

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW122318\  
 Data File : VW007825.D  
 Acq On : 22 Dec 2018 07:05  
 Operator : SY/AP  
 Sample : VW1223SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

Quant Time: Dec 23 23:46:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 64956    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 108291   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 98906    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 49307    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 40589    | 57.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.02% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 35541    | 53.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.60% |          |
| 50) Toluene-d8              | 10.32 | 98   | 137478   | 55.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.40% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 53360    | 55.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.92% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 9850     | 17.058  | ug/l  | 95     |
| 3) Chloromethane              | 2.22 | 50   | 9489     | 26.761  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.37 | 62   | 11316    | 25.070  | ug/l  | 96     |
| 5) Bromomethane               | 2.78 | 94   | 7413     | 23.579  | ug/l  | 99     |
| 6) Chloroethane               | 2.93 | 64   | 5960     | 24.681  | ug/l  | 93     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 8207     | 17.464  | ug/l  | 94     |
| 8) Diethyl Ether              | 3.67 | 74   | 7386     | 25.661  | ug/l  | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 14394    | 20.798  | ug/l  | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 23217    | 21.095  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 6962     | 144.962 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 13740    | 21.440  | ug/l  | 94     |
| 13) Acrolein                  | 3.89 | 56   | 4420     | 115.104 | ug/l  | 93     |
| 14) Allyl chloride            | 4.67 | 41   | 18939    | 22.535  | ug/l  | 93     |
| 15) Acrylonitrile             | 5.37 | 53   | 16780    | 136.667 | ug/l  | 100    |
| 16) Acetone                   | 4.13 | 43   | 14210    | 106.587 | ug/l  | 90     |
| 17) Carbon Disulfide          | 4.38 | 76   | 37074    | 18.694  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 9063     | 28.584  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 24489    | 26.617  | ug/l  | 95     |
| 20) Methylene Chloride        | 4.91 | 84   | 16901    | 21.792  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 15056    | 21.361  | ug/l  | 98     |
| 22) Diisopropyl ether         | 6.32 | 45   | 38843    | 24.683  | ug/l  | 96     |
| 23) Vinyl Acetate             | 6.26 | 43   | 114859   | 122.851 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 26253    | 22.678  | ug/l  | 98     |
| 25) 2-Butanone                | 7.17 | 43   | 20447    | 130.940 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 15168    | 17.905  | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 16665    | 22.193  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 8889     | 22.520  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 13581    | 145.806 | ug/l  | 94     |
| 30) Chloroform                | 7.68 | 83   | 27206    | 20.766  | ug/l  | 94     |
| 31) Cyclohexane               | 7.95 | 56   | 23351    | 22.033  | ug/l  | 93     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 24071    | 20.174  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 20975    | 20.068  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 9325     | 25.852  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 21730    | 17.653  | ug/l  | 93     |

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 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

Quant Time: Dec 23 23:46:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 26069    | 20.072  | ug/l   | 93       |
| 40) Benzene                    | 8.32  | 78   | 59371    | 21.287  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 5469     | 26.705  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 19785    | 21.168  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 18857    | 26.093  | ug/l   | 97       |
| 44) Trichloroethene            | 9.09  | 130  | 17483    | 20.728  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 14230    | 22.993  | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 8429     | 22.126  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.64  | 83   | 19227    | 19.198  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.44  | 41   | 9213     | 25.540  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 3278     | 542.716 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 45170    | 132.256 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 39034    | 20.859  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 20096    | 20.173  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 22287    | 20.254  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 11806    | 22.479  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 15336    | 24.715  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 20745    | 23.787  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 37862    | 133.641 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 31615    | 131.625 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 13162    | 18.928  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 12223    | 22.982  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 15837    | 22.612  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.66 | 112  | 44683    | 20.873  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 14891    | 19.467  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 77318    | 21.047  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 59822    | 41.980  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 28285    | 21.175  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 47248    | 21.518  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 7351     | 18.512  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 80071    | 21.484  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 17189    | 26.626  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 13397    | 23.974  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 18197    | 47.749  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 18011    | 21.086  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.81 | 91   | 92357    | 21.288  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 54490    | 21.560  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 69446    | 21.602  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 3817     | 21.024  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 56722    | 21.078  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 61394    | 21.765  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 70337    | 21.682  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 84654    | 21.776  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 74648    | 21.117  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 35907    | 21.173  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 35667    | 21.025  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 66674    | 20.571  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 10982    | 17.695  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 32294    | 21.268  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 2521     | 21.968  | ug/l   | 94       |

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Sample : VW1223SBS02  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Quant Time: Dec 23 23:46:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration

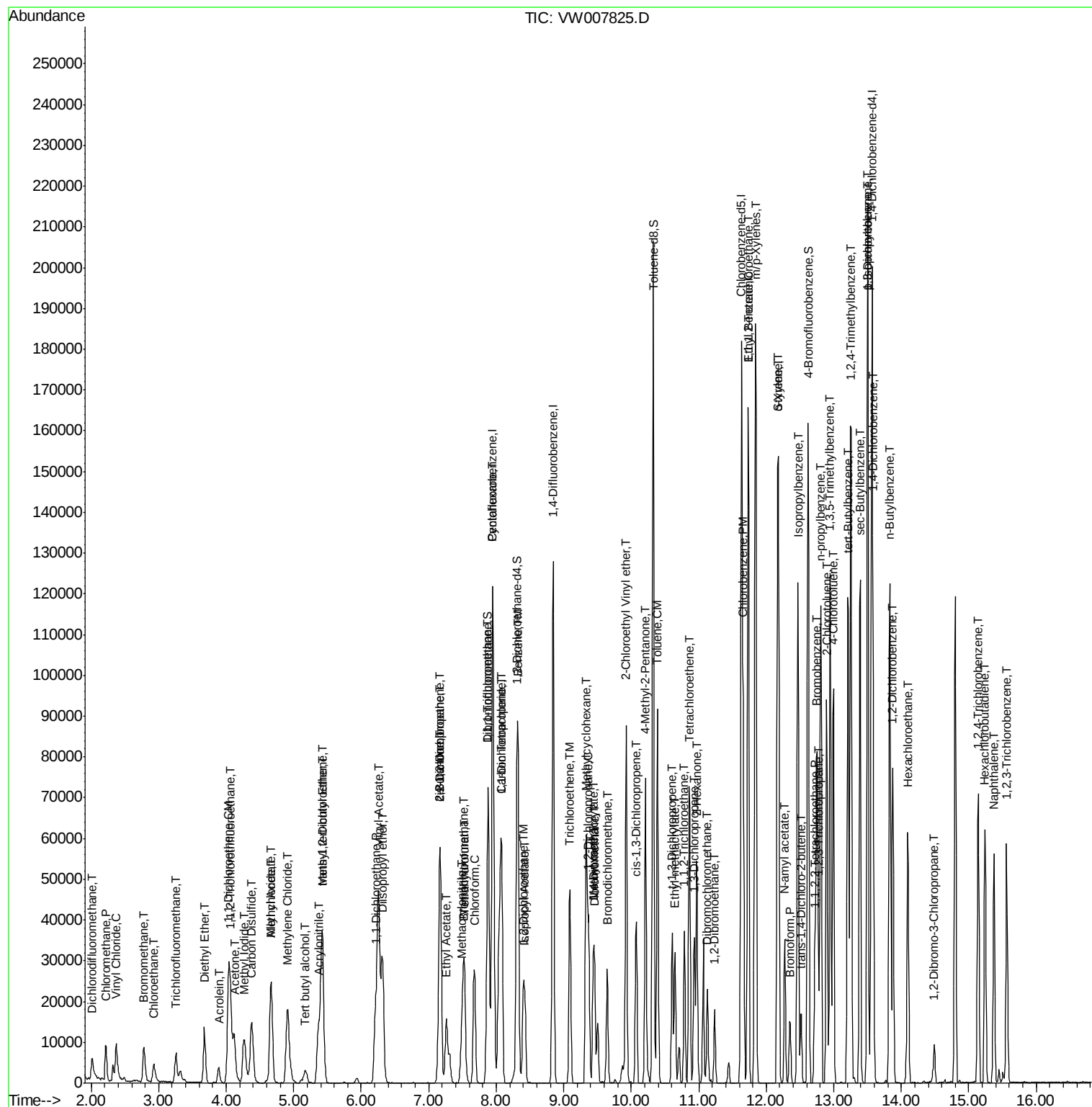
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 22148    | 21.013 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 11717    | 20.801 | ug/l  | 100      |
| 95) Naphthalene            | 15.37 | 128  | 48821    | 25.054 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 19953    | 22.115 | ug/l  | 99       |

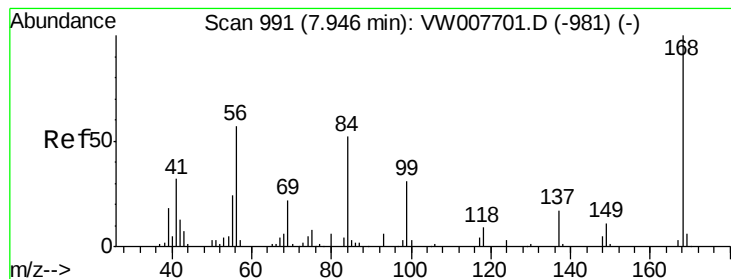
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

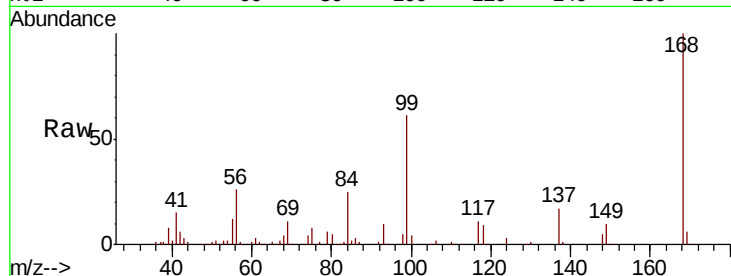
VW1223SBS02

Tgt Ion:168 Resp: 64956

Ion Ratio Lower Upper

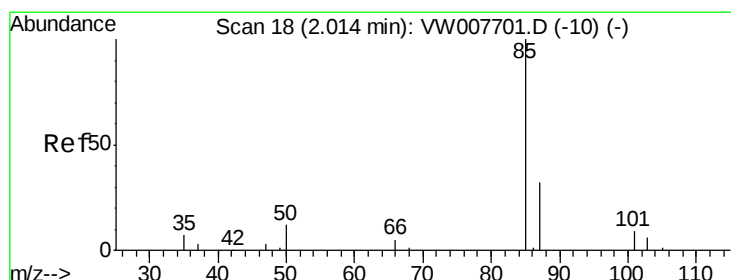
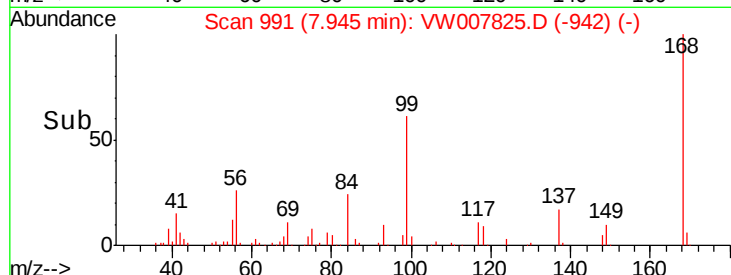
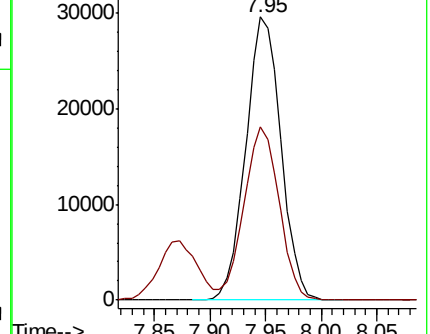
168 100

99 61.2 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 17.058 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW007825.D

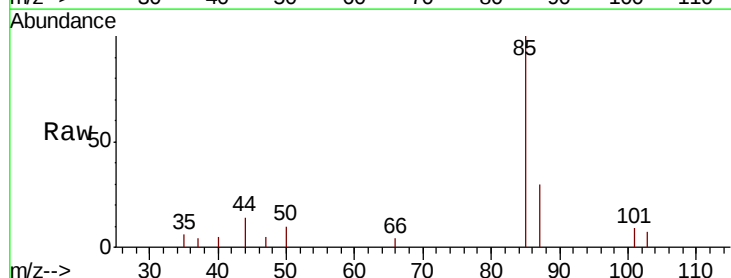
Acq: 22 Dec 2018 07:05

Tgt Ion: 85 Resp: 9850

Ion Ratio Lower Upper

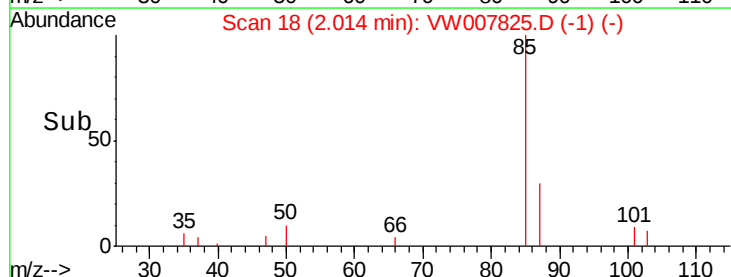
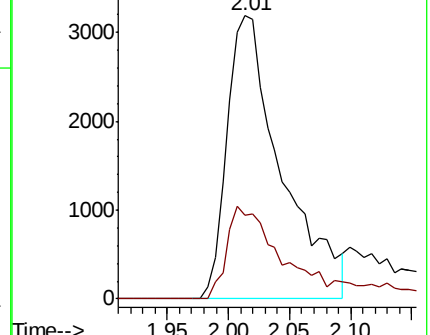
85 100

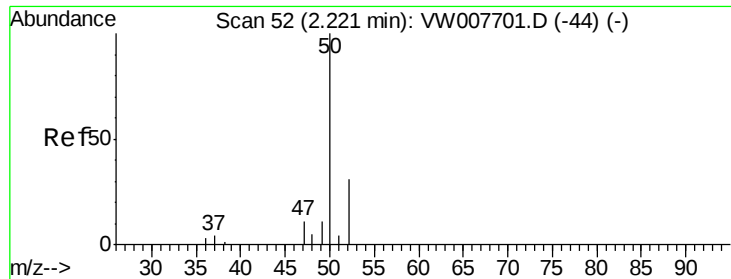
87 29.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 26.761 ug/l

RT: 2.22 min Scan# 52

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

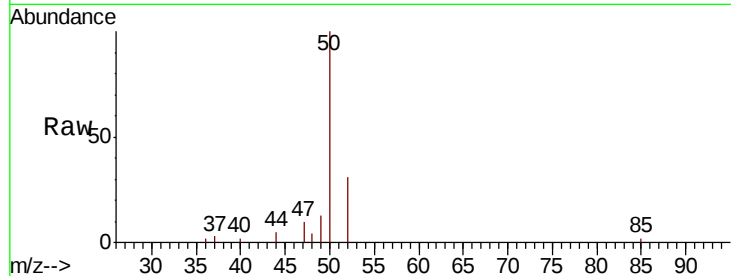
VW1223SBS02

Tgt Ion: 50 Resp: 9489

Ion Ratio Lower Upper

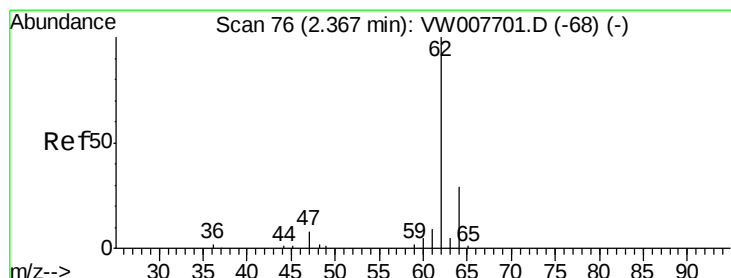
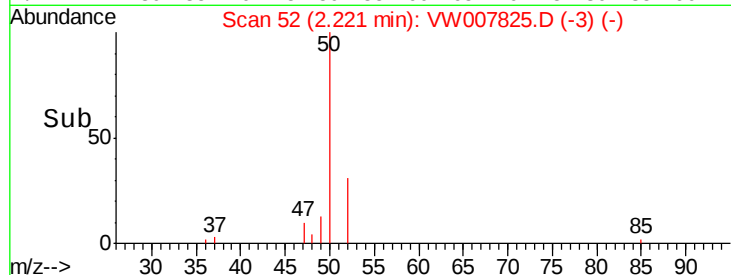
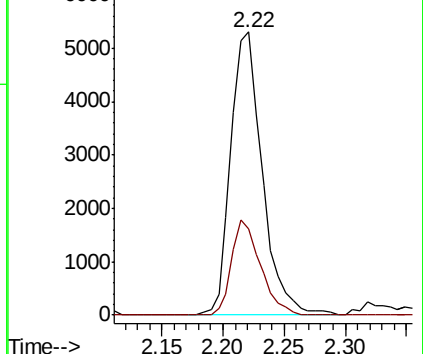
50 100

52 30.6 25.1 37.7



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 25.070 ug/l

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW007825.D

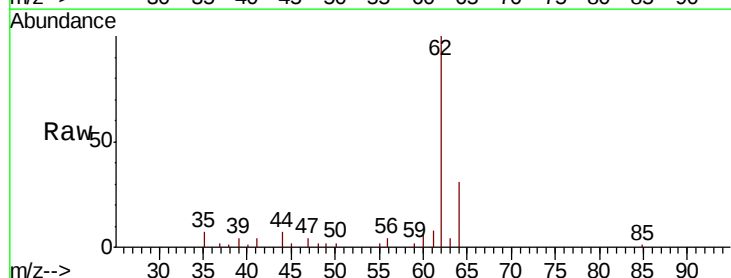
Acq: 22 Dec 2018 07:05

Tgt Ion: 62 Resp: 11316

Ion Ratio Lower Upper

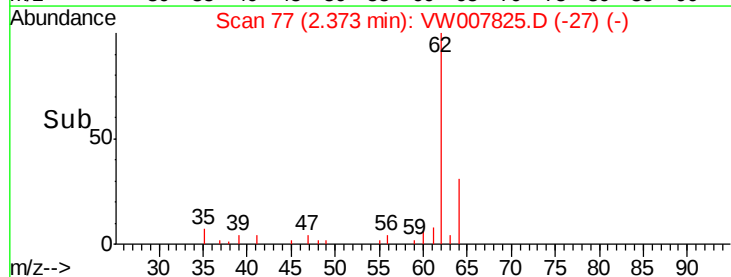
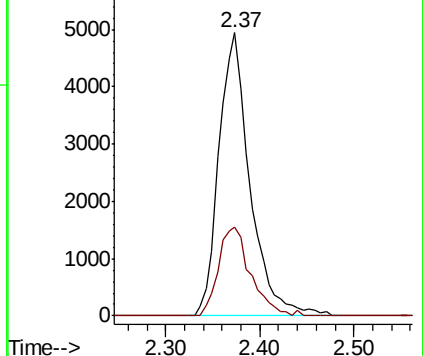
62 100

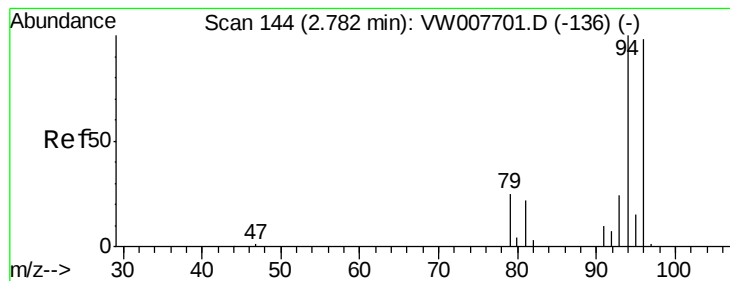
64 31.4 23.4 35.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 23.579 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

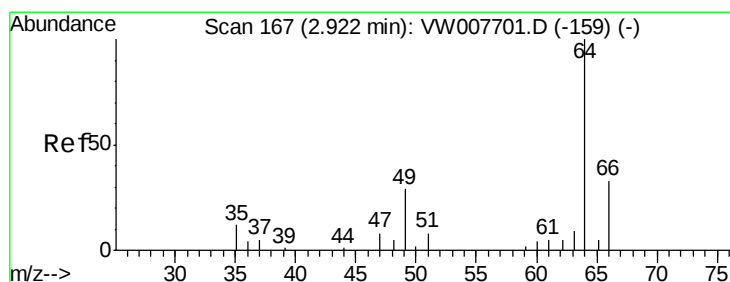
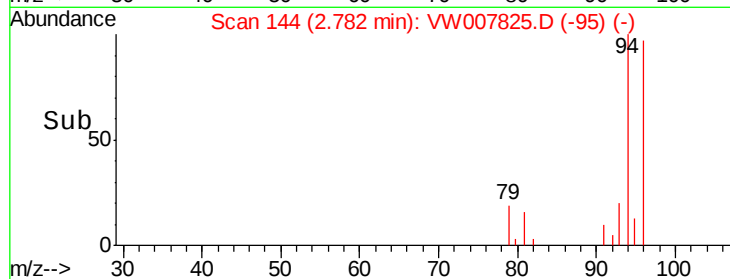
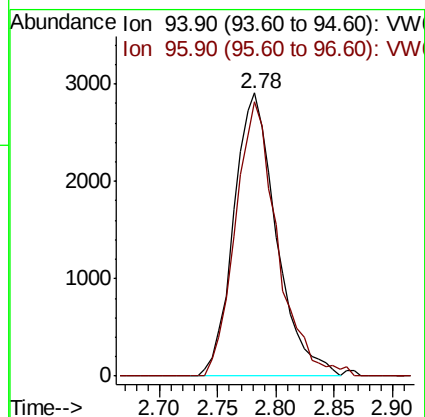
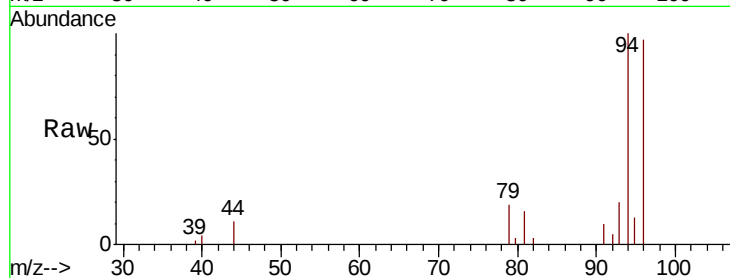
VW1223SBS02

Tgt Ion: 94 Resp: 7413

Ion Ratio Lower Upper

94 100

96 96.8 78.2 117.2



#6

Chloroethane

Concen: 24.681 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW007825.D

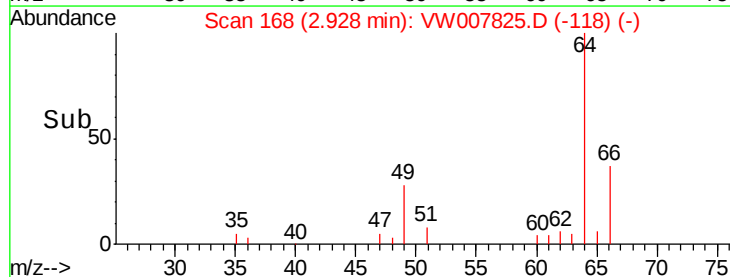
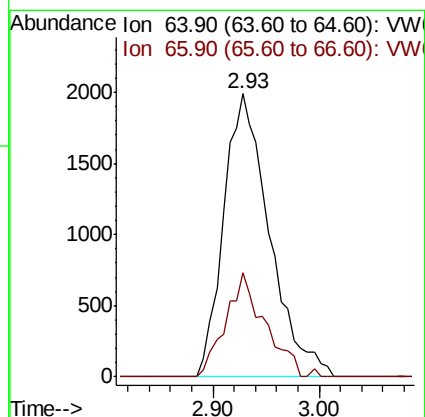
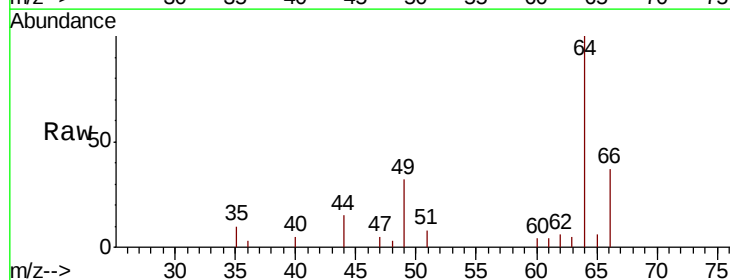
Acq: 22 Dec 2018 07:05

Tgt Ion: 64 Resp: 5960

Ion Ratio Lower Upper

64 100

66 36.8 26.2 39.4



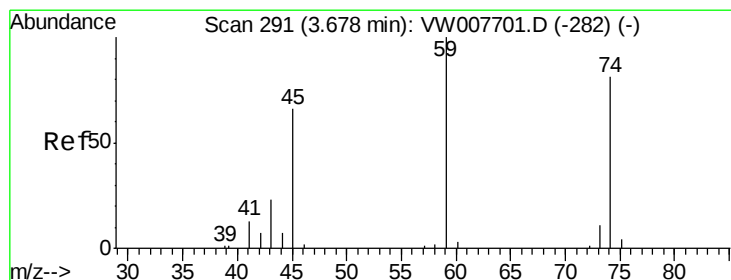
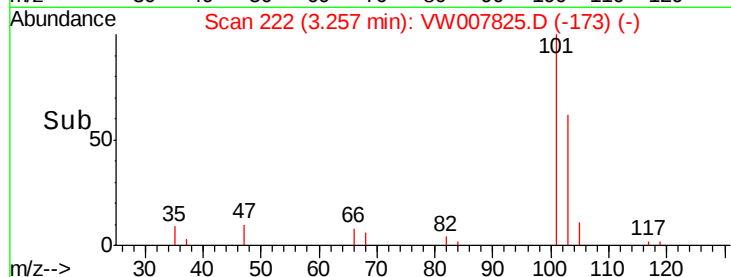
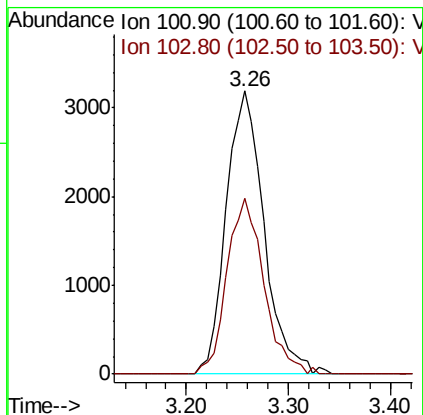
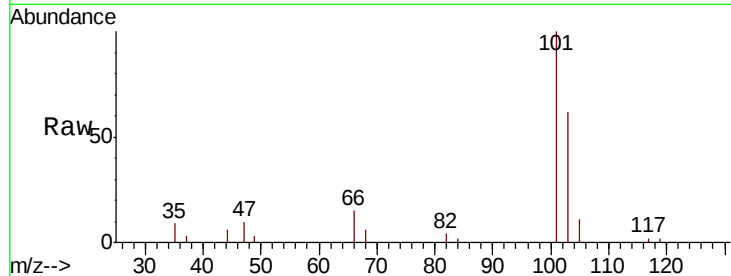


#7

Trichlorofluoromethane  
 Concen: 17.464 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

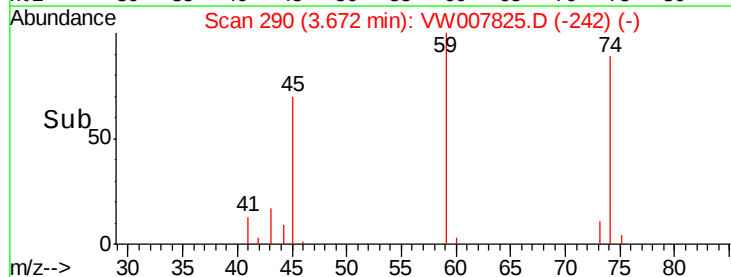
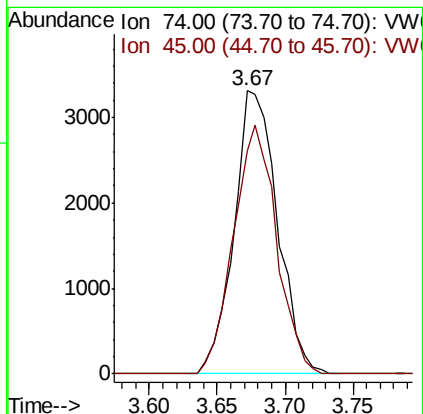
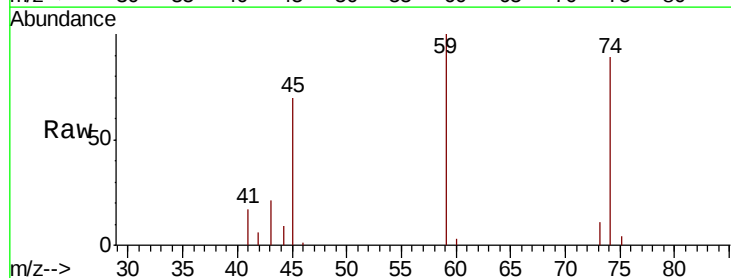
Tgt Ion: 101 Resp: 8207  
 Ion Ratio Lower Upper  
 101 100  
 103 62.2 53.4 80.2

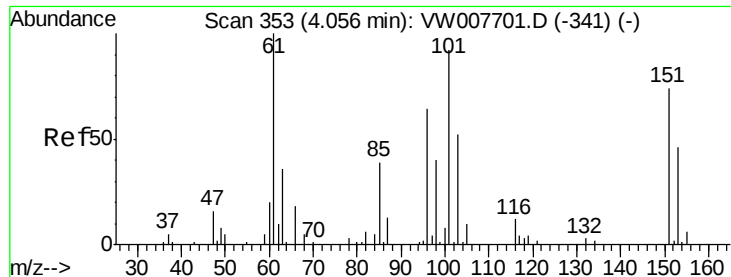


#8

Diethyl Ether  
 Concen: 25.661 ug/l  
 RT: 3.67 min Scan# 290  
 Delta R.T. -0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 74 Resp: 7386  
 Ion Ratio Lower Upper  
 74 100  
 45 87.0 39.4 118.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.798 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

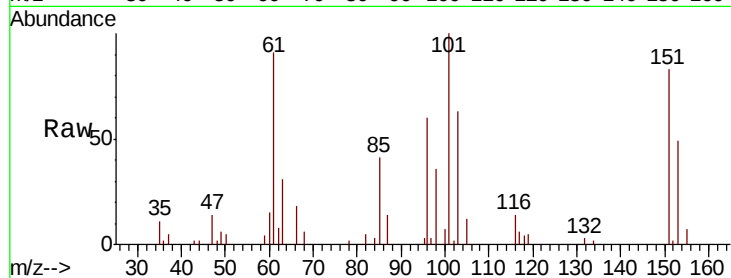
Tgt Ion:101 Resp: 14394

Ion Ratio Lower Upper

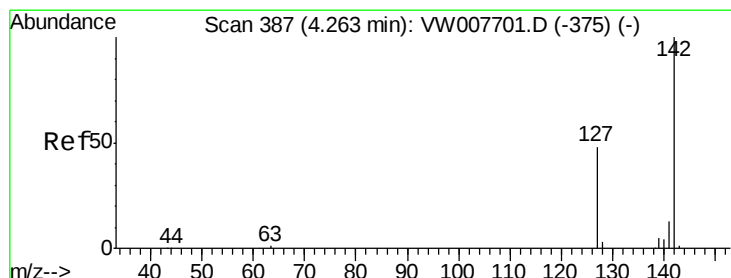
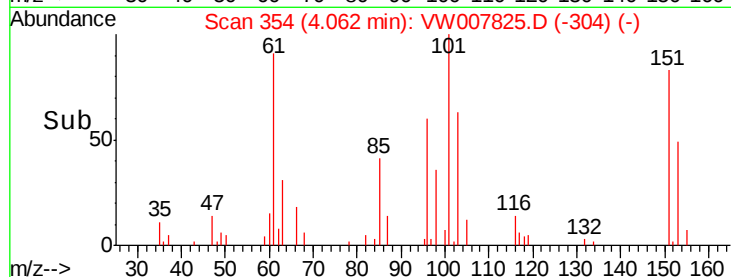
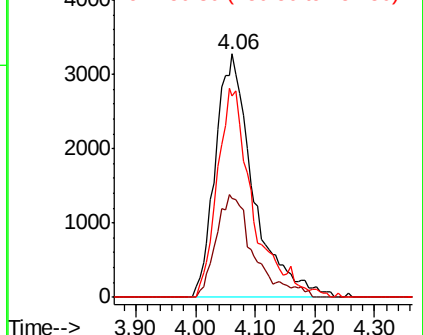
101 100

85 41.7 34.3 51.5

151 81.4 64.6 96.8



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: 21.095 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

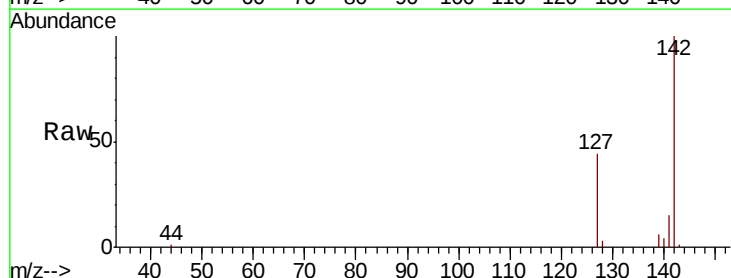
Tgt Ion:142 Resp: 23217

Ion Ratio Lower Upper

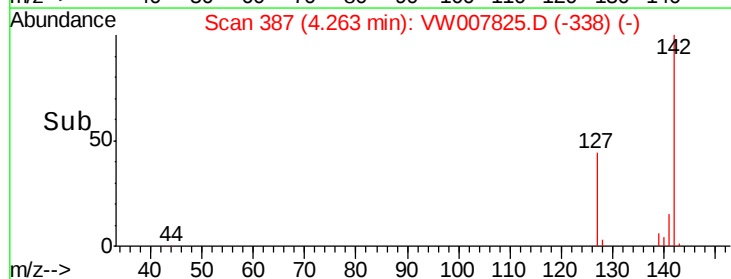
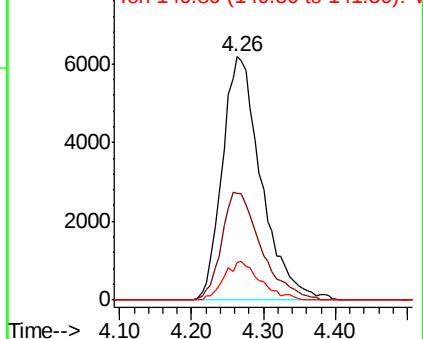
142 100

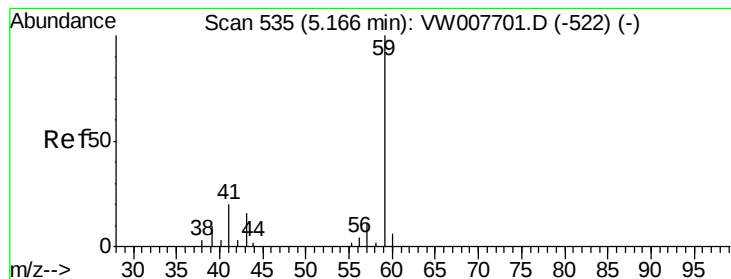
127 44.9 37.7 56.5

141 14.8 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



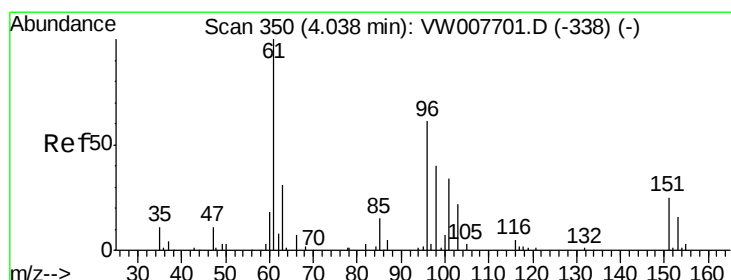
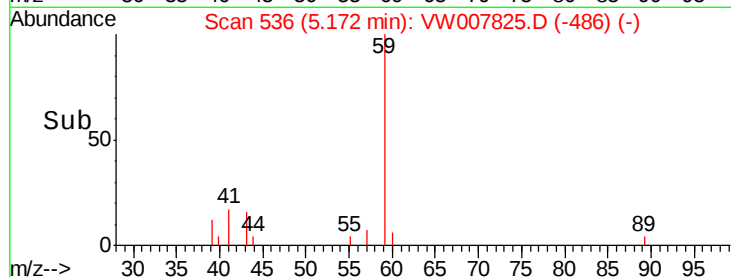
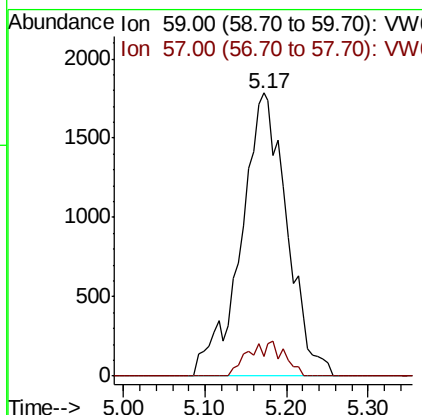
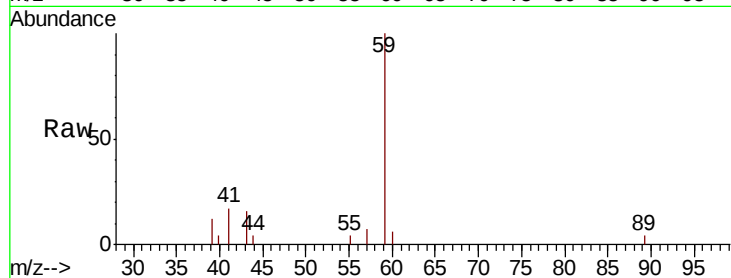


#11

Tert butyl alcohol  
 Concen: 144.962 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

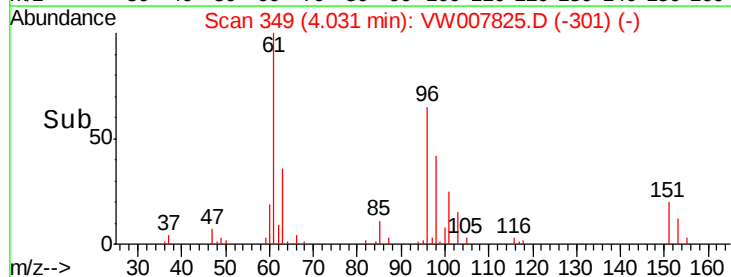
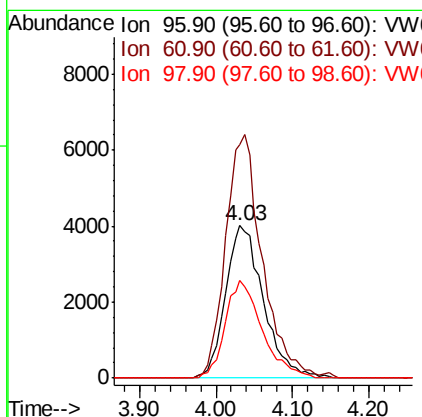
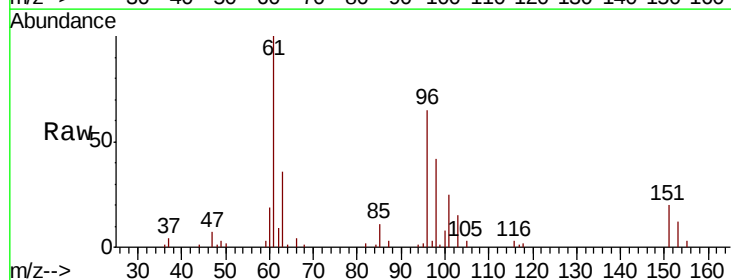
Tgt Ion: 59 Resp: 6962  
 Ion Ratio Lower Upper  
 59 100  
 57 9.6 7.8 11.8

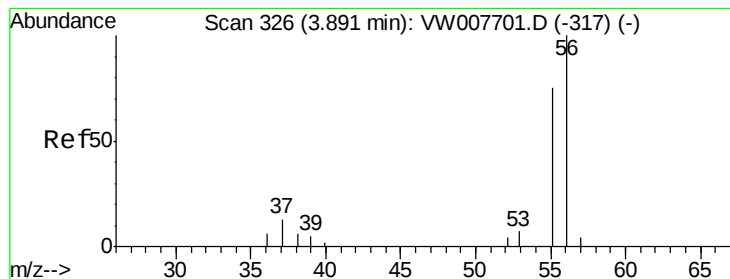


#12

1,1-Dichloroethene  
 Concen: 21.440 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 96 Resp: 13740  
 Ion Ratio Lower Upper  
 96 100  
 61 153.0 130.6 195.8  
 98 64.4 52.3 78.5





#13

Acrolein

Concen: 115.104 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

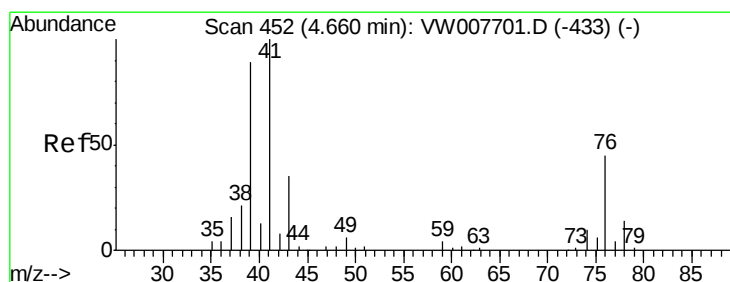
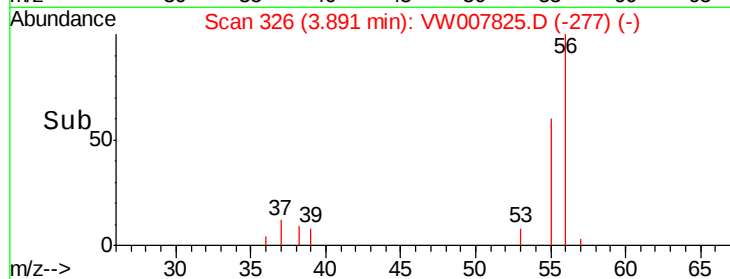
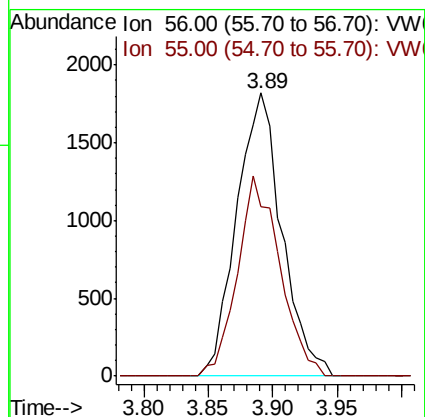
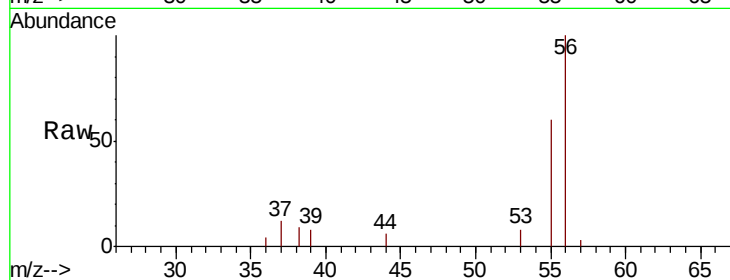
VW1223SBS02

Tgt Ion: 56 Resp: 4420

Ion Ratio Lower Upper

56 100

55 66.4 57.7 86.5



#14

Allyl chloride

Concen: 22.535 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

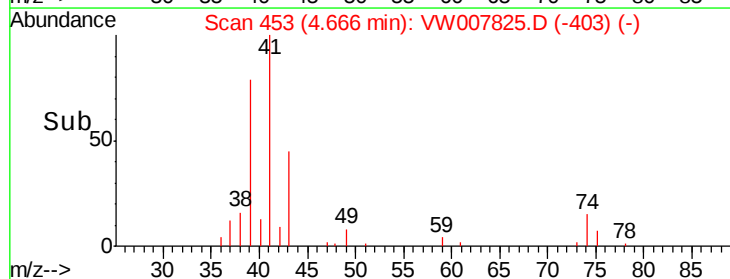
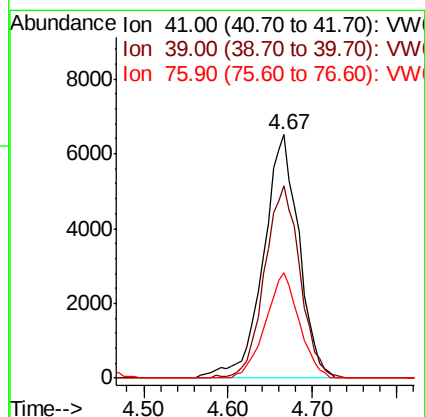
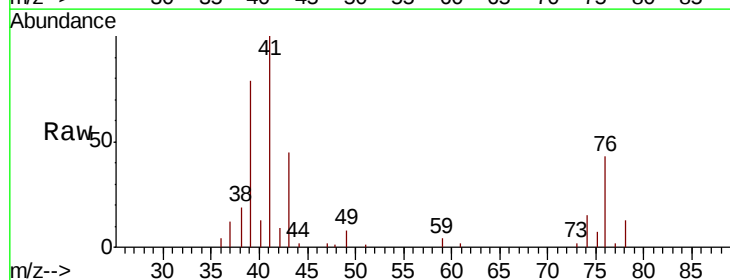
Tgt Ion: 41 Resp: 18939

Ion Ratio Lower Upper

41 100

39 79.0 69.5 104.3

76 40.9 34.8 52.2





#15

Acrylonitrile

Concen: 136.667 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

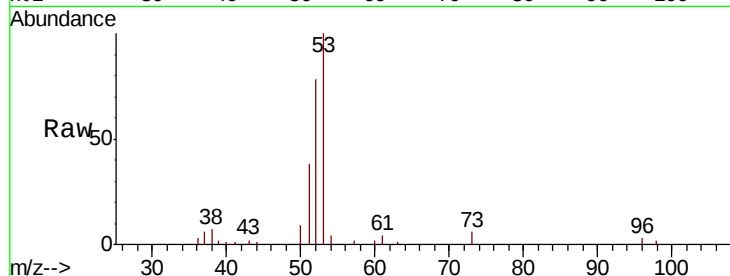
Tgt Ion: 53 Resp: 16780

Ion Ratio Lower Upper

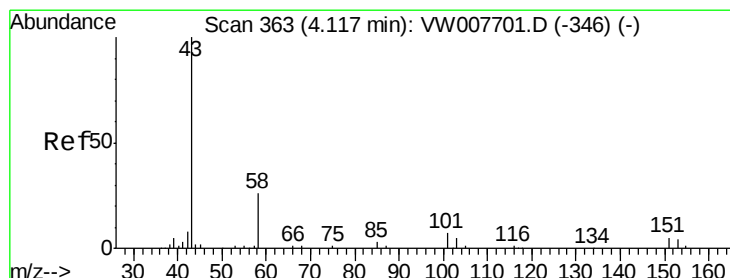
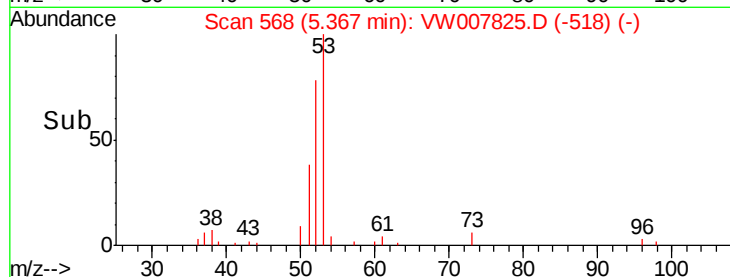
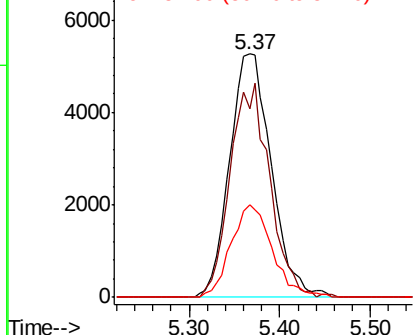
53 100

52 83.2 67.0 100.4

51 37.6 30.2 45.2



Abundance Ion 53.00 (52.70 to 53.70): VW  
Ion 52.00 (51.70 to 52.70): VW  
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 106.587 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007825.D

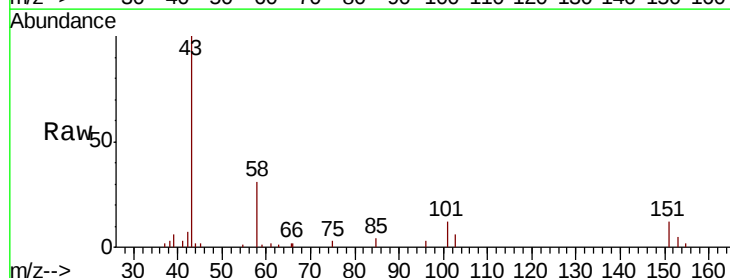
Acq: 22 Dec 2018 07:05

Tgt Ion: 43 Resp: 14210

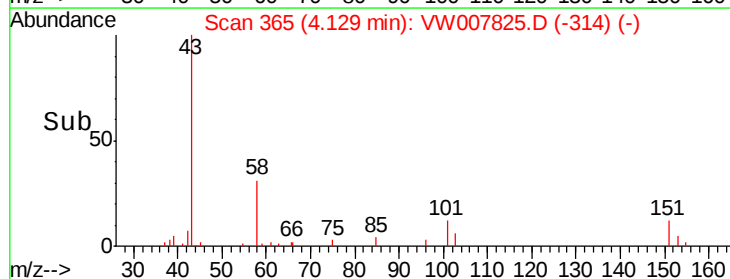
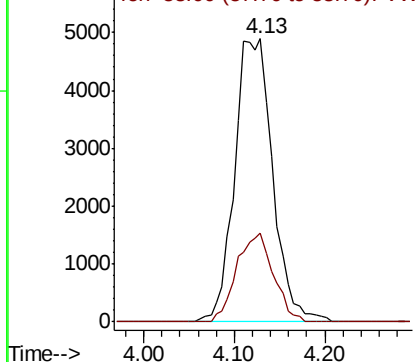
Ion Ratio Lower Upper

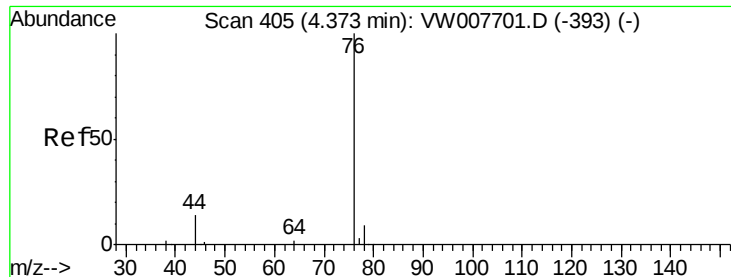
43 100

58 31.5 21.2 31.8



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

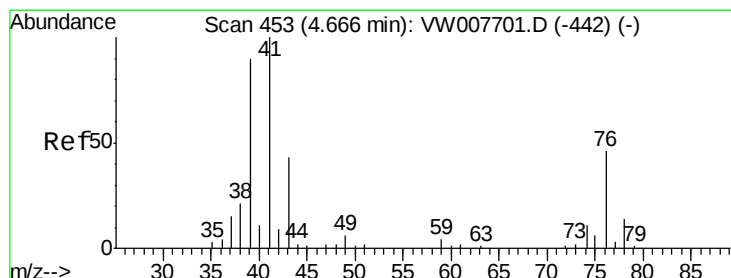
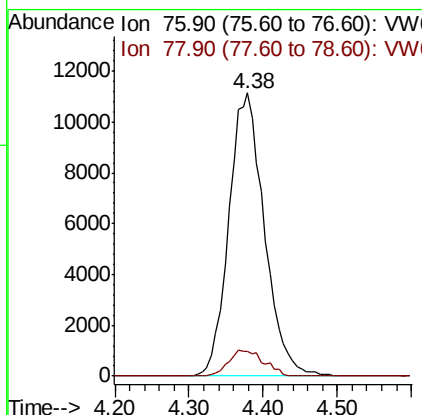
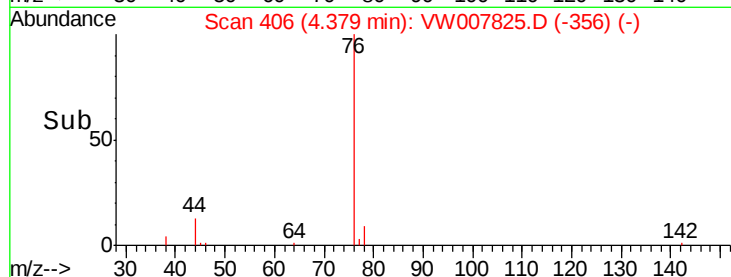
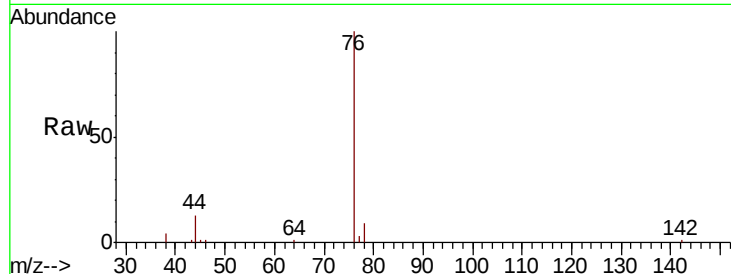




#17  
 Carbon Disulfide  
 Concen: 18.694 ug/l  
 RT: 4.38 min Scan# 406  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

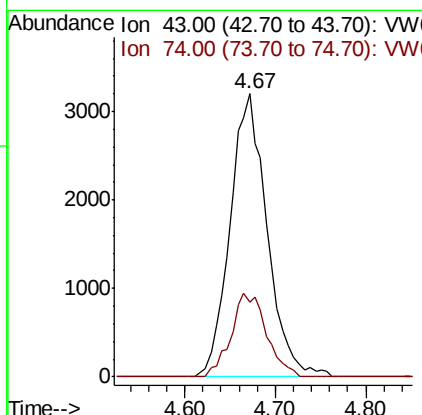
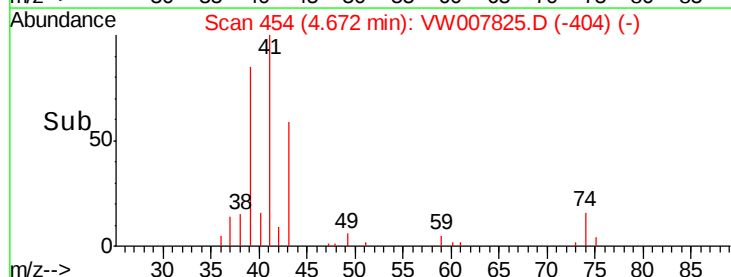
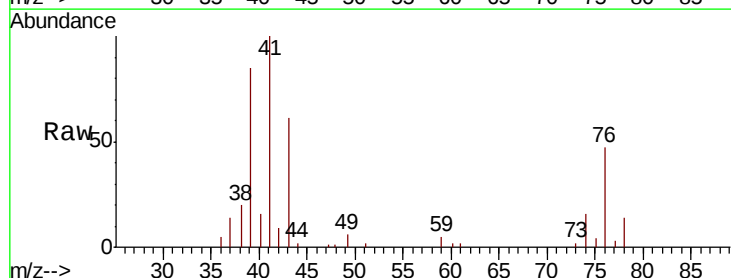
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

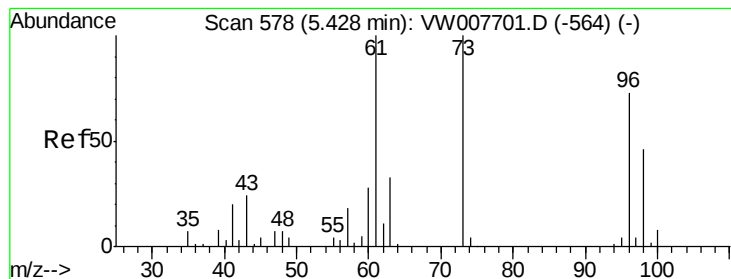
Tgt Ion: 76 Resp: 37074  
 Ion Ratio Lower Upper  
 76 100  
 78 8.6 7.3 10.9



#18  
 Methyl Acetate  
 Concen: 28.584 ug/l  
 RT: 4.67 min Scan# 454  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 43 Resp: 9063  
 Ion Ratio Lower Upper  
 43 100  
 74 28.1 22.7 34.1





#19

Methyl tert-butyl Ether

Concen: 26.617 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

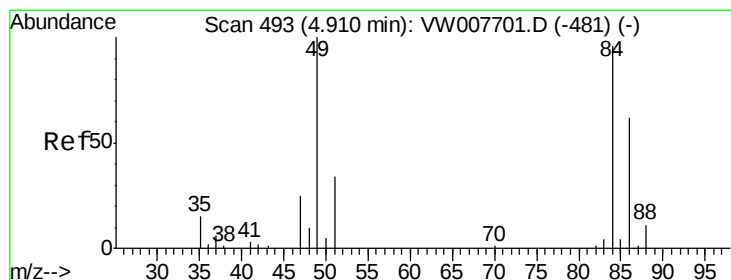
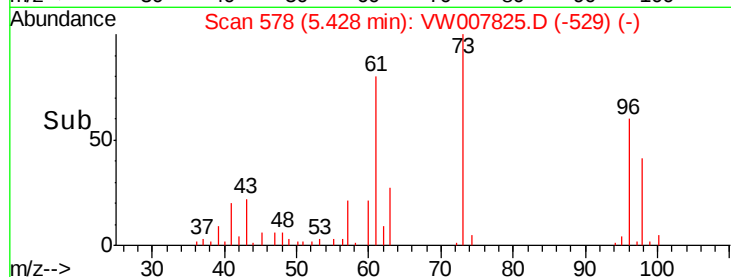
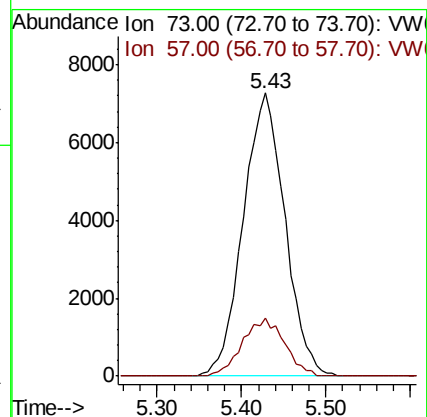
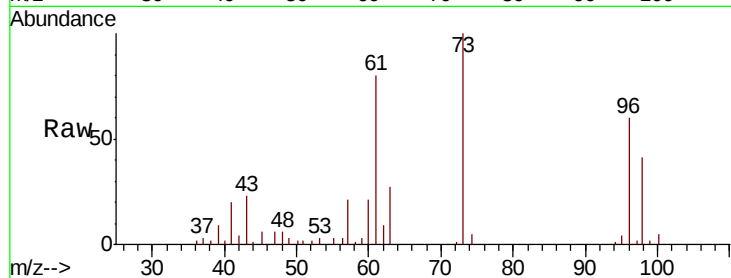
VW1223SBS02

Tgt Ion: 73 Resp: 24489

Ion Ratio Lower Upper

73 100

57 20.7 14.7 22.1



#20

Methylene Chloride

Concen: 21.792 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Tgt Ion: 84 Resp: 16901

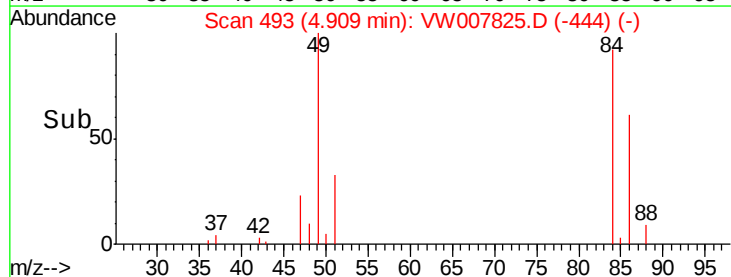
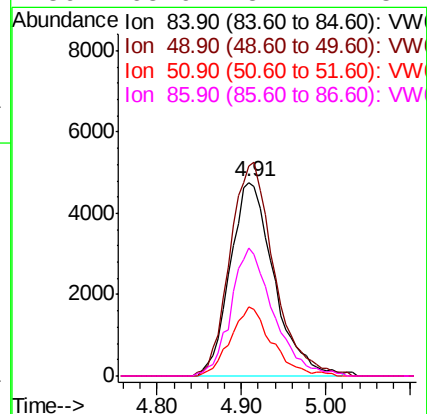
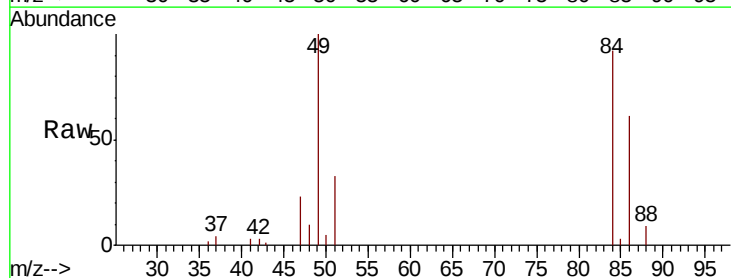
Ion Ratio Lower Upper

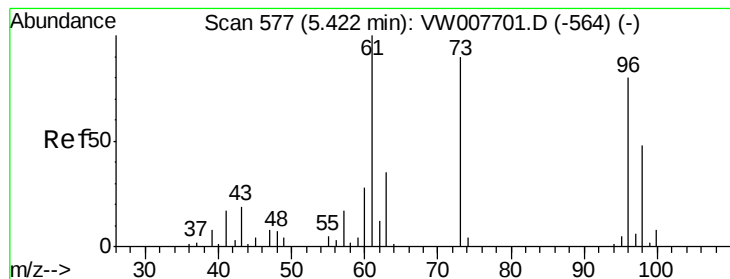
84 100

49 108.3 83.7 125.5

51 35.7 28.2 42.2

86 65.9 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 21.361 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

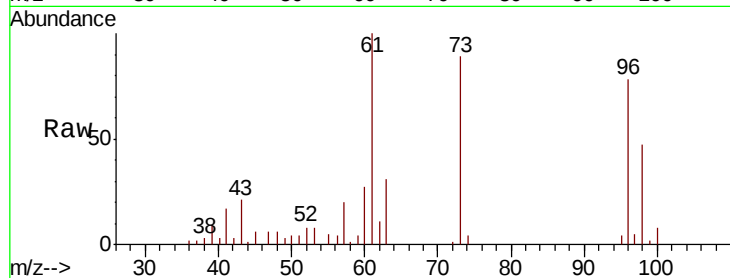
Tgt Ion: 96 Resp: 15056

Ion Ratio Lower Upper

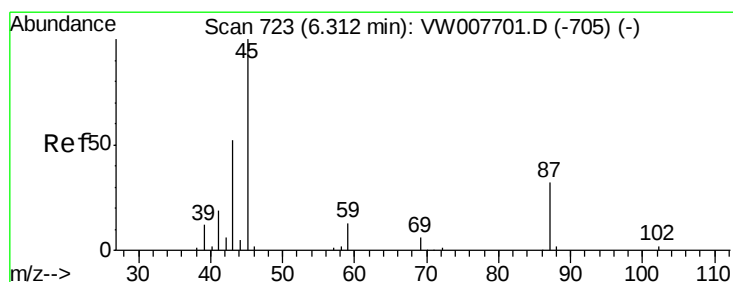
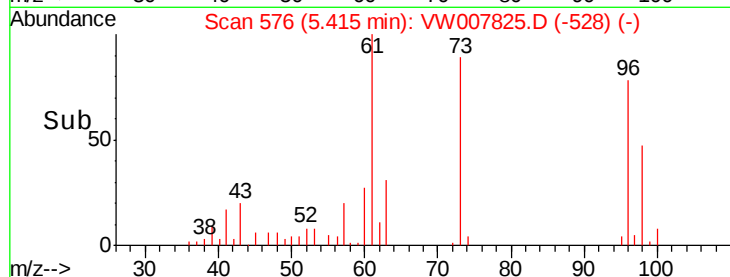
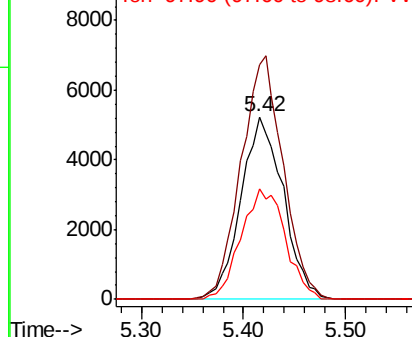
96 100

61 128.6 100.1 150.1

98 60.3 48.5 72.7



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: 24.683 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Tgt Ion: 45 Resp: 38843

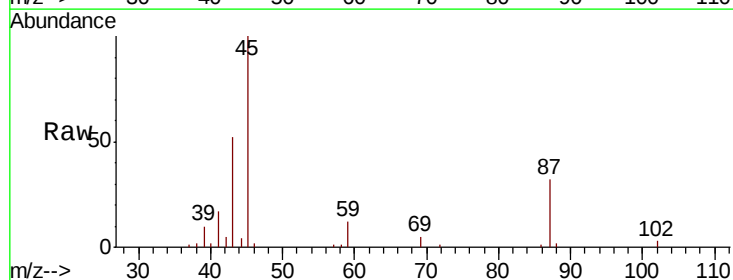
Ion Ratio Lower Upper

45 100

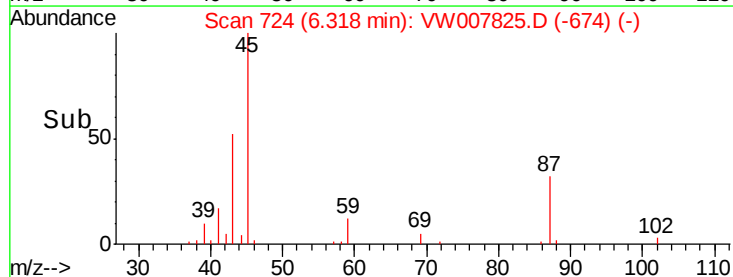
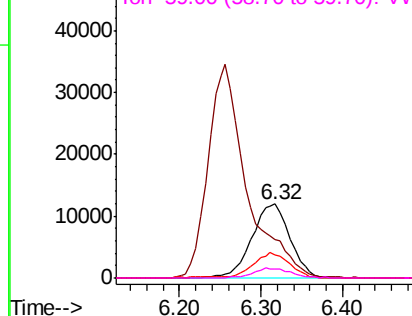
43 50.5 43.7 65.5

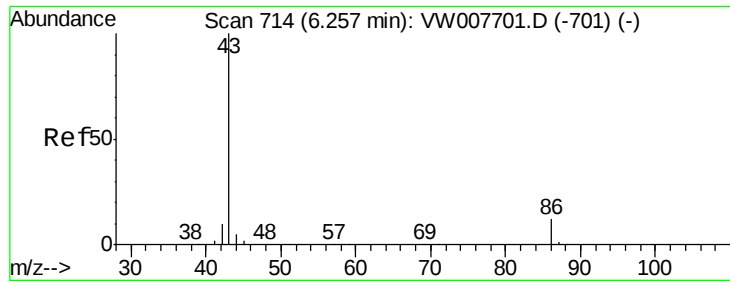
87 31.5 26.6 40.0

59 12.3 10.2 15.2



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

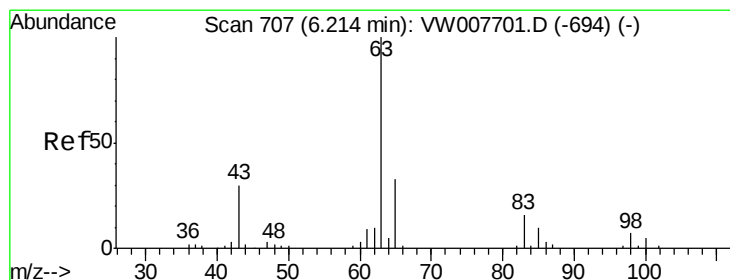
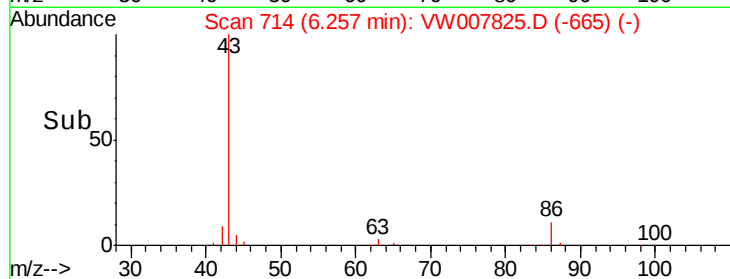
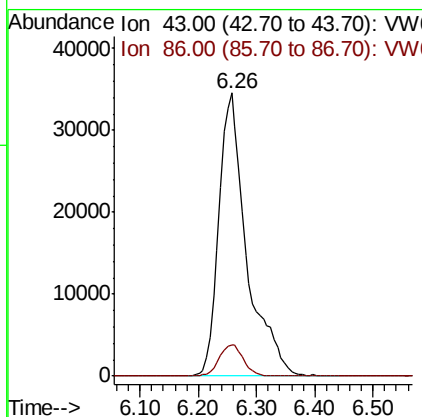
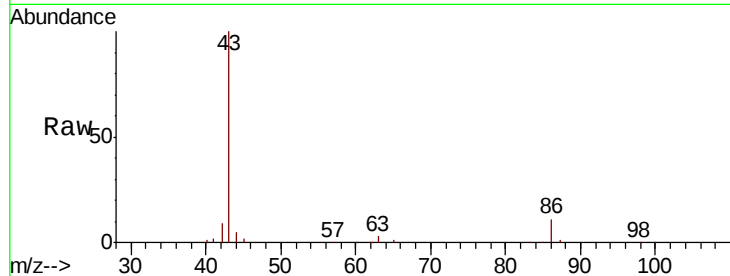




#23  
 Vinyl Acetate  
 Concen: 122.851 ug/l  
 RT: 6.26 min Scan# 714  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

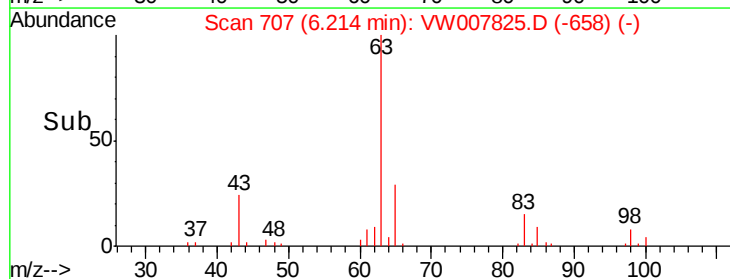
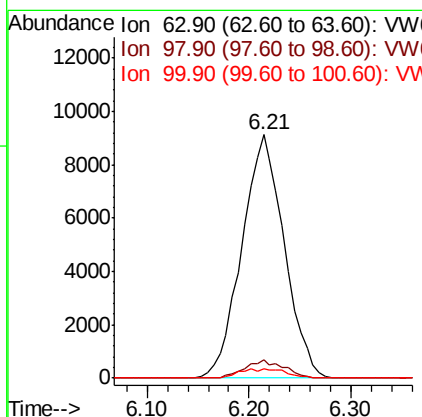
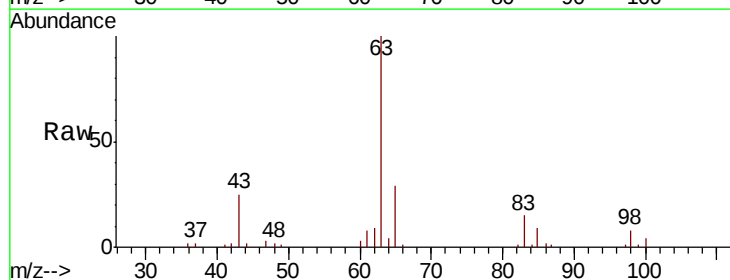
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

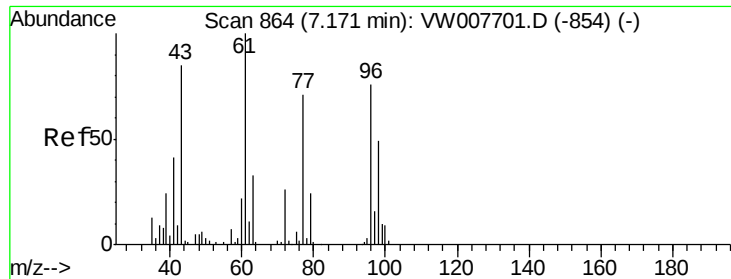
Tgt Ion: 43 Resp: 114859  
 Ion Ratio Lower Upper  
 43 100  
 86 11.2 9.6 14.4



#24  
 1,1-Dichloroethane  
 Concen: 22.678 ug/l  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 63 Resp: 26253  
 Ion Ratio Lower Upper  
 63 100  
 98 7.6 3.6 10.9  
 100 4.0 2.5 7.5





#25

2-Butanone

Concen: 130.940 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

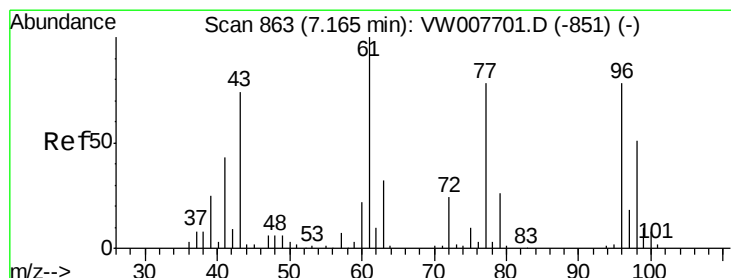
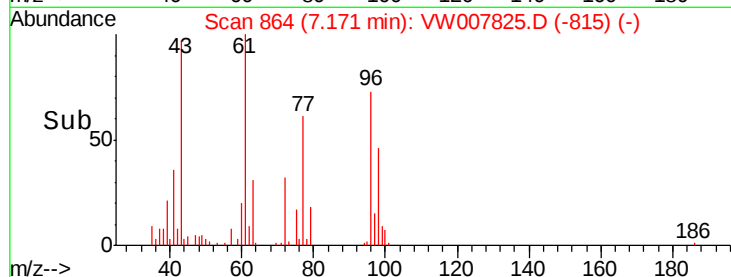
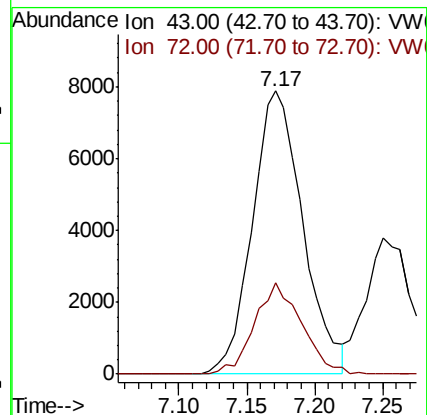
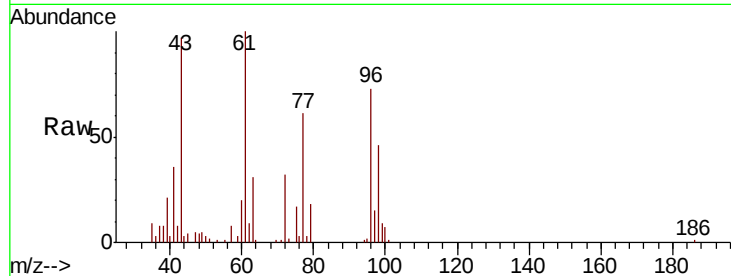
VW1223SBS02

Tgt Ion: 43 Resp: 20447

Ion Ratio Lower Upper

43 100

72 32.5 24.5 36.7



#26

2,2-Dichloropropane

Concen: 17.905 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW007825.D

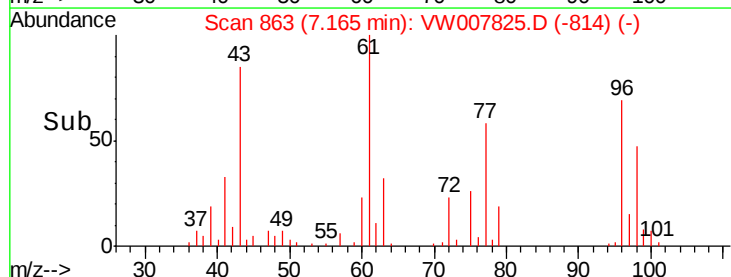
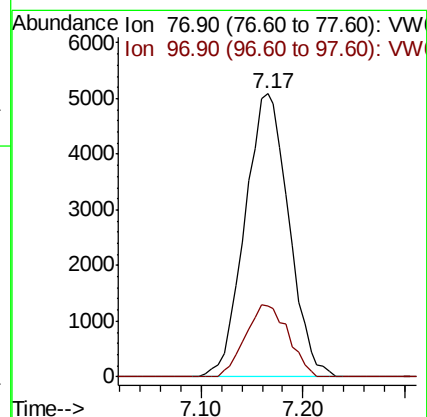
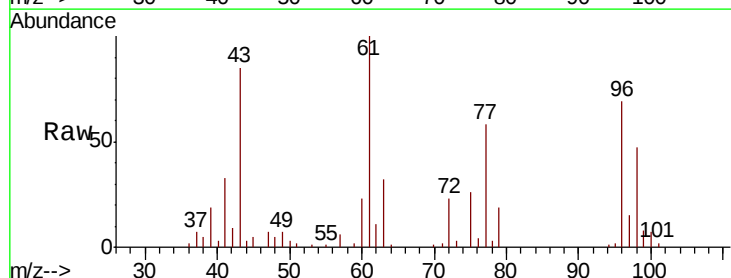
Acq: 22 Dec 2018 07:05

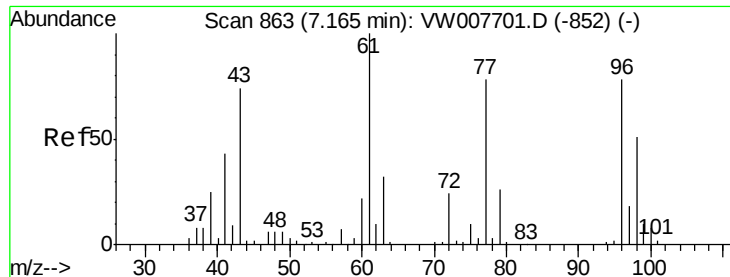
Tgt Ion: 77 Resp: 15168

Ion Ratio Lower Upper

77 100

97 24.7 11.3 33.9



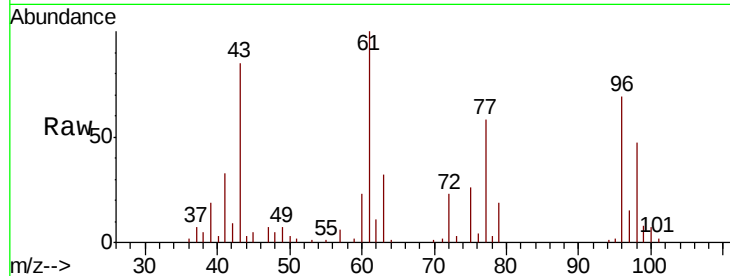


#27

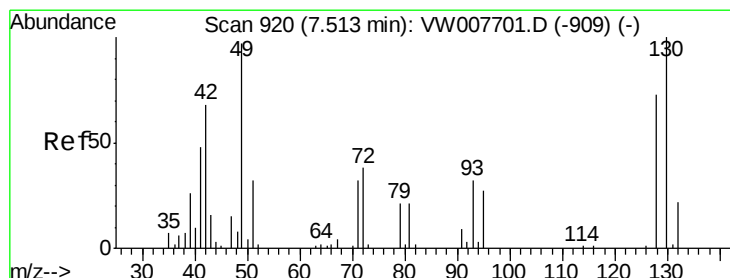
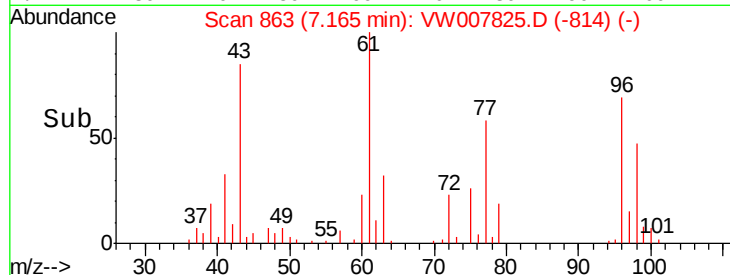
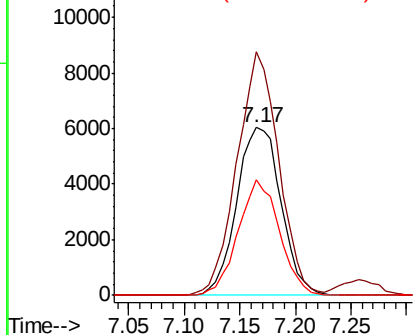
cis-1,2-Dichloroethene  
Concen: 22.193 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 96 Resp: 16665  
Ion Ratio Lower Upper  
96 100  
61 136.8 0.0 271.6  
98 64.2 0.0 131.2



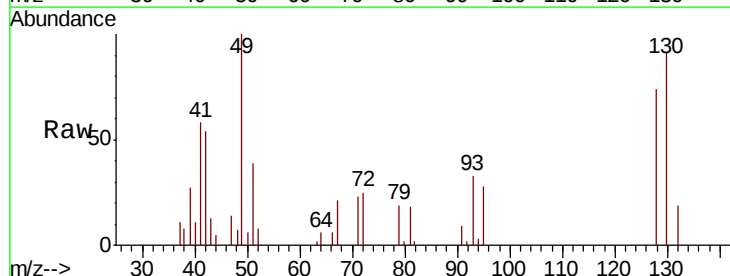
Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



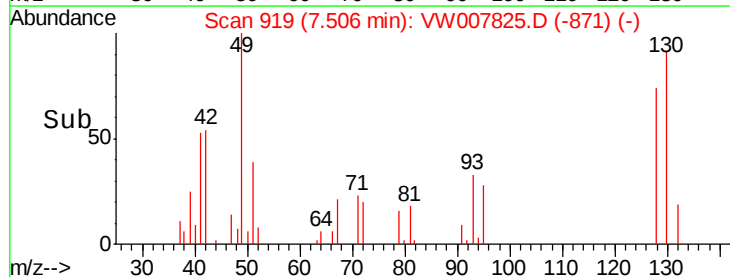
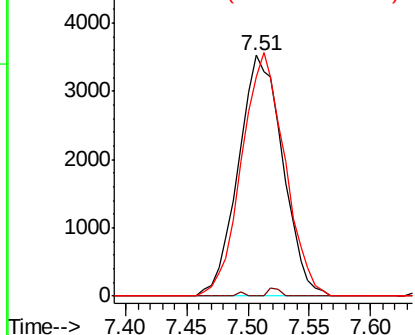
#28

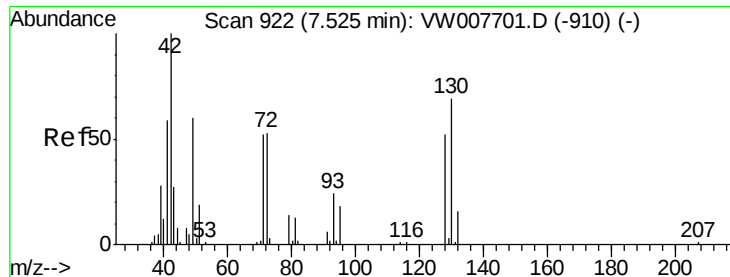
Bromochloromethane  
Concen: 22.520 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 49 Resp: 8889  
Ion Ratio Lower Upper  
49 100  
129 1.0 0.0 2.2  
130 98.2 81.5 122.3



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

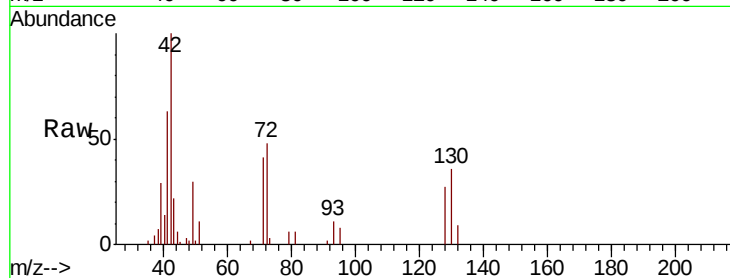




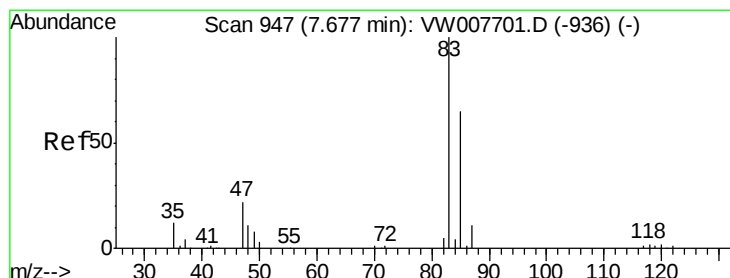
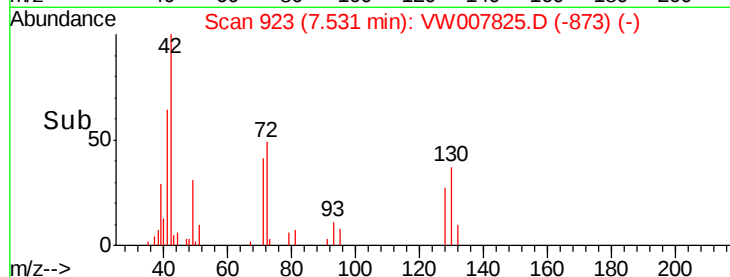
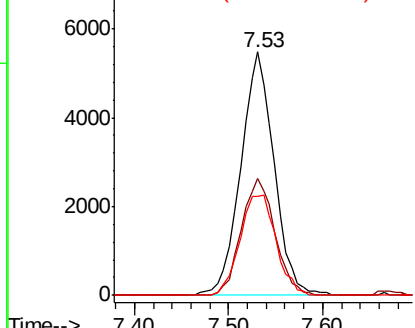
#29  
Tetrahydrofuran  
Concen: 145.806 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 42 Resp: 13581  
Ion Ratio Lower Upper  
42 100  
72 48.3 41.7 62.5  
71 44.5 39.0 58.6

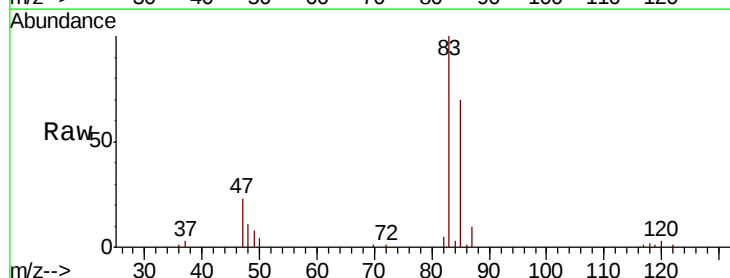


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

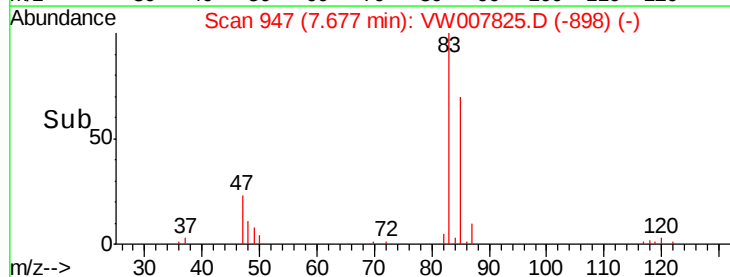
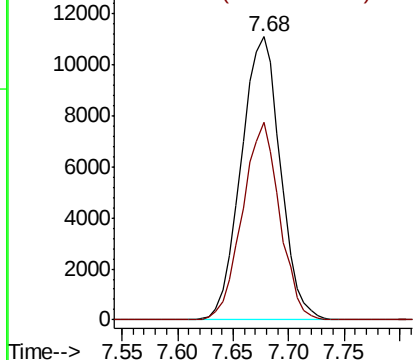


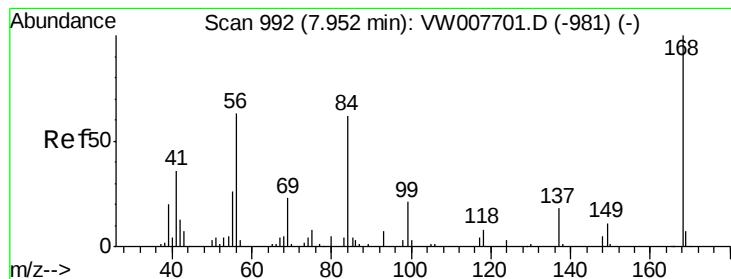
#30  
Chloroform  
Concen: 20.766 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 83 Resp: 27206  
Ion Ratio Lower Upper  
83 100  
85 69.7 52.2 78.2



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 22.033 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

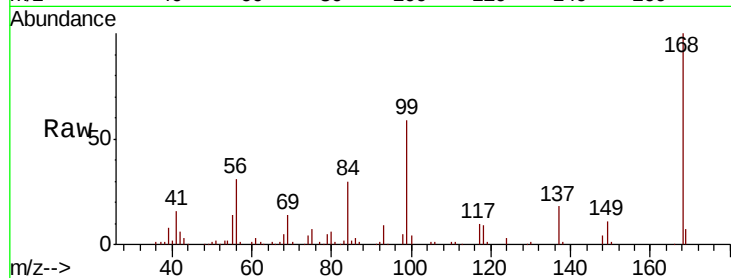
Tgt Ion: 56 Resp: 23351

Ion Ratio Lower Upper

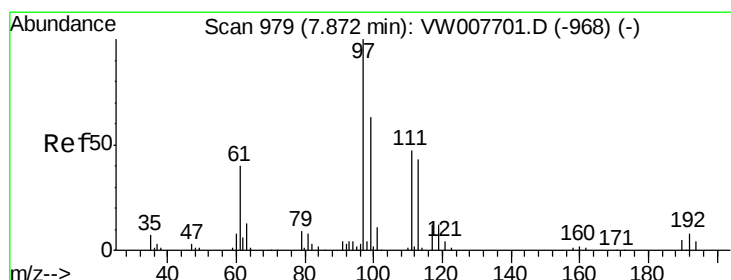
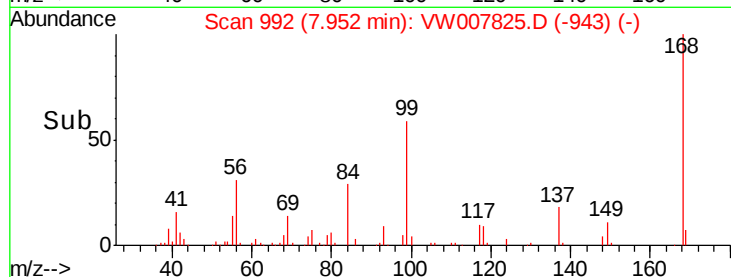
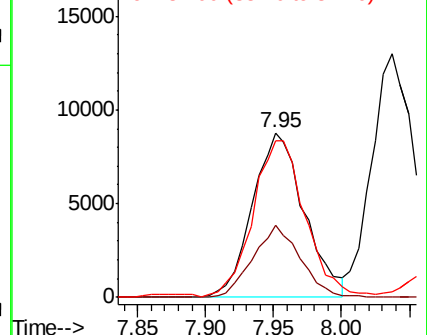
56 100

69 44.0 29.7 44.5

84 93.6 78.9 118.3



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: 20.174 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

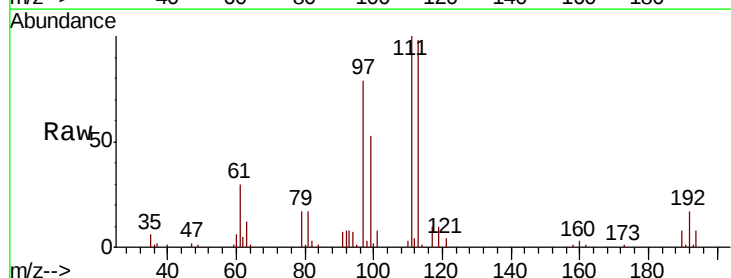
Tgt Ion: 97 Resp: 24071

Ion Ratio Lower Upper

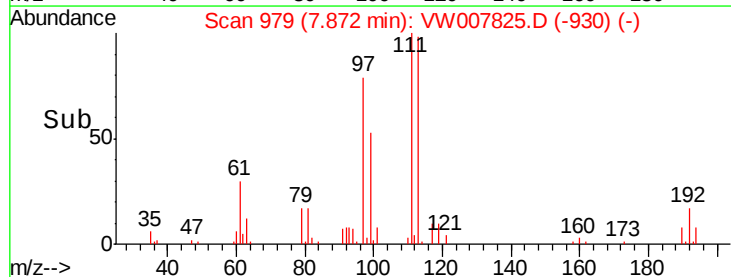
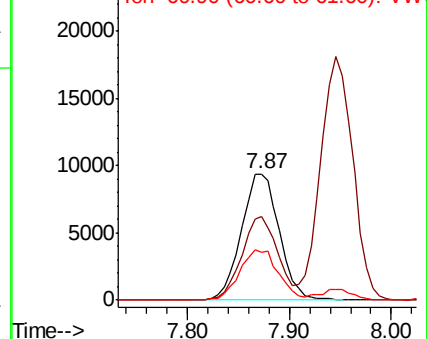
97 100

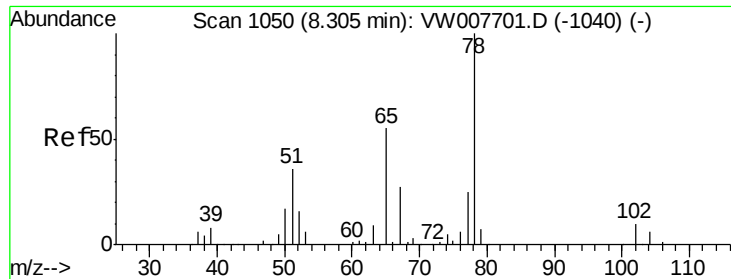
99 62.7 50.6 76.0

61 40.8 32.3 48.5



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

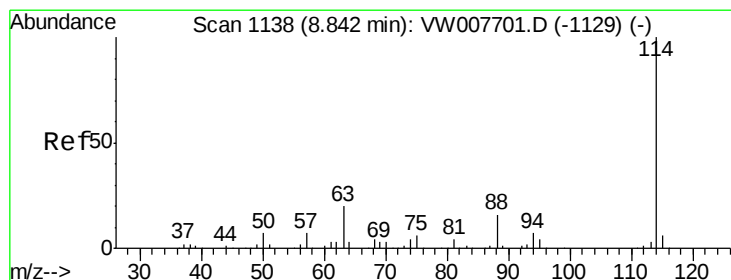
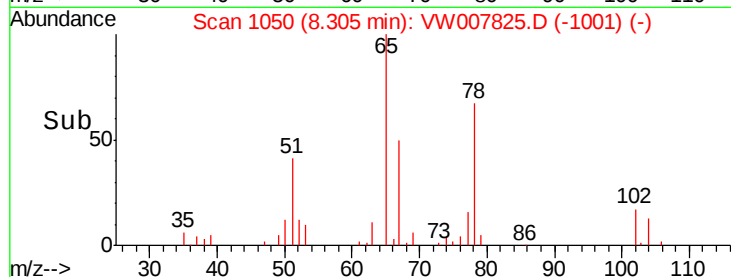
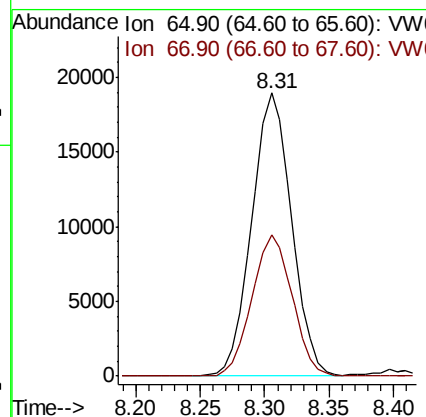
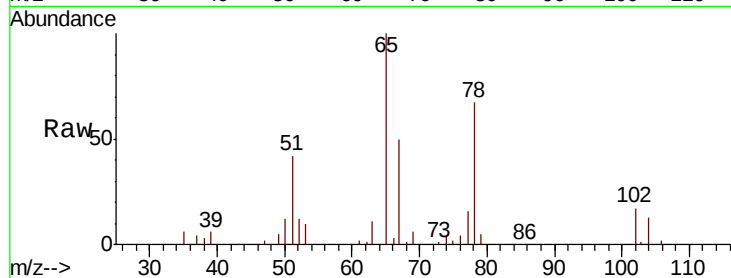




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.011 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

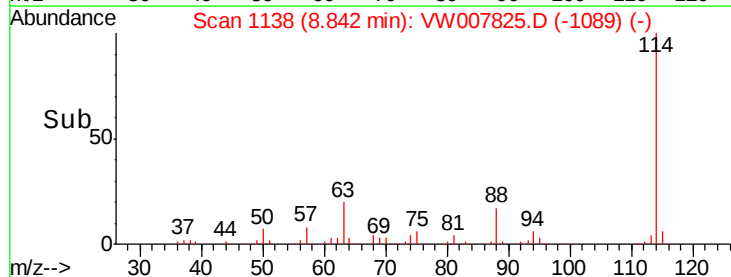
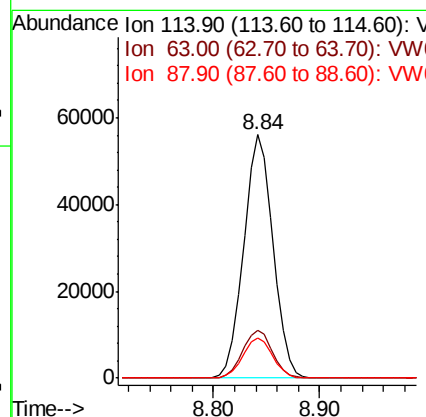
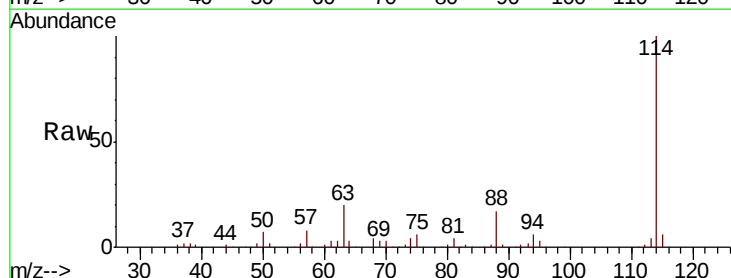
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

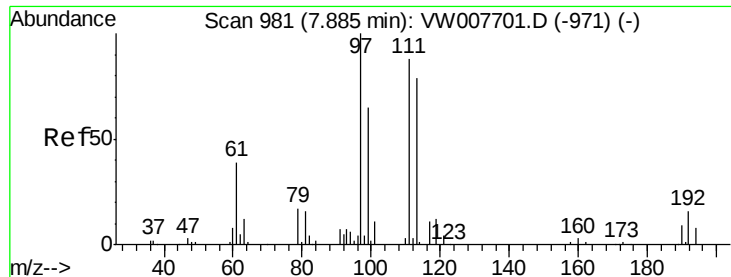
Tgt Ion: 65 Resp: 40589  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 114 Resp: 108291  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 40.0  
 88 16.7 0.0 32.6

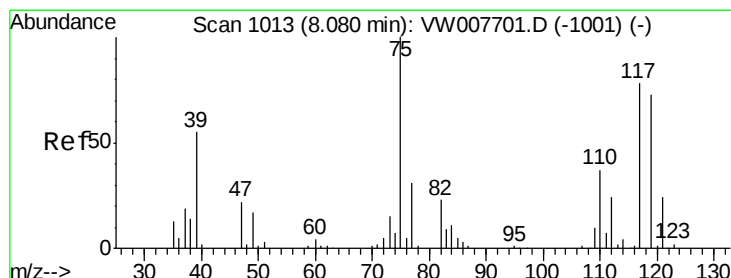
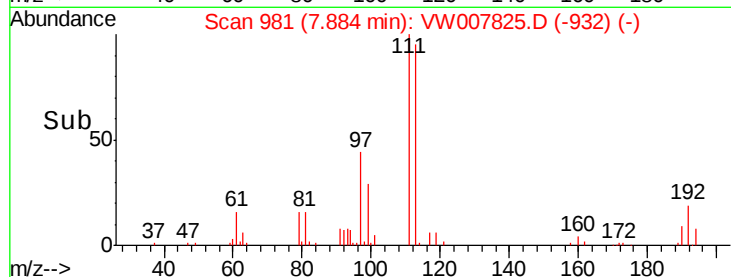
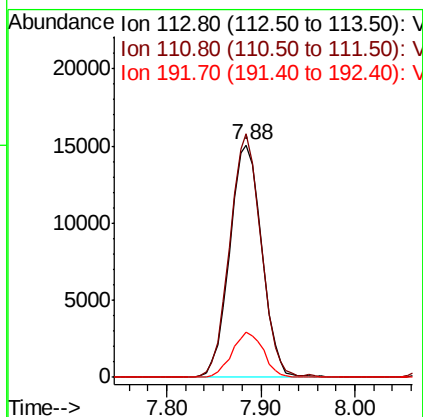
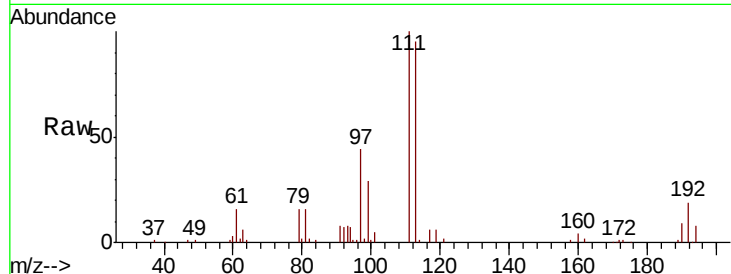




#35  
 Dibromofluoromethane  
 Concen: 53.799 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

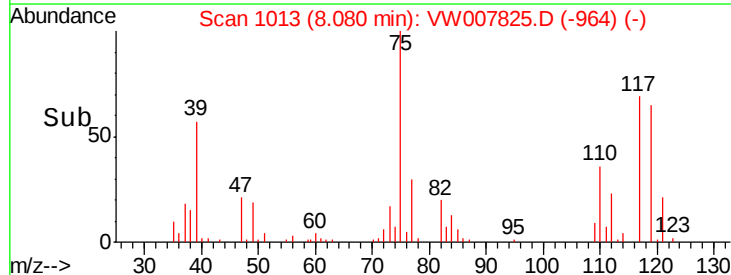
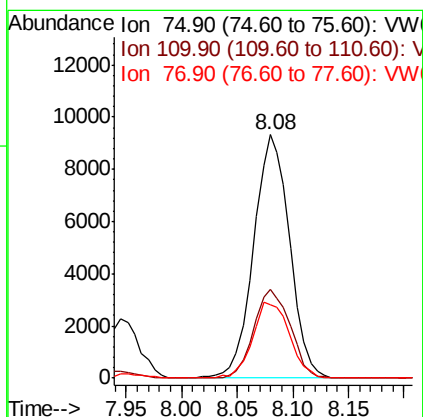
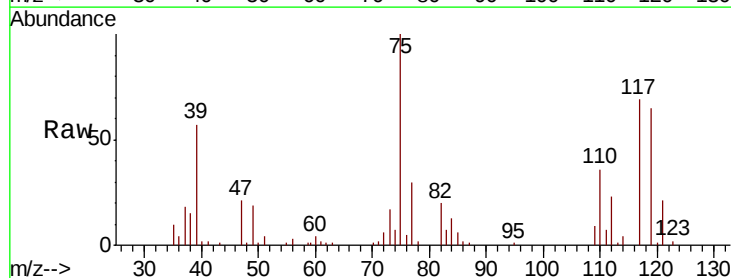
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

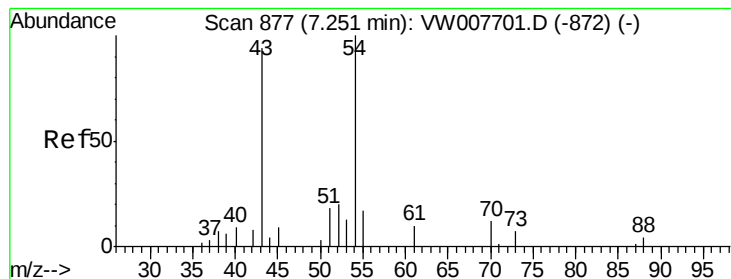
Tgt Ion:113 Resp: 35541  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 82.6 124.0  
 192 19.0 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 20.068 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 75 Resp: 20975  
 Ion Ratio Lower Upper  
 75 100  
 110 36.9 18.6 55.8  
 77 31.9 25.0 37.4





#37

Ethyl Acetate

Concen: 25.852 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

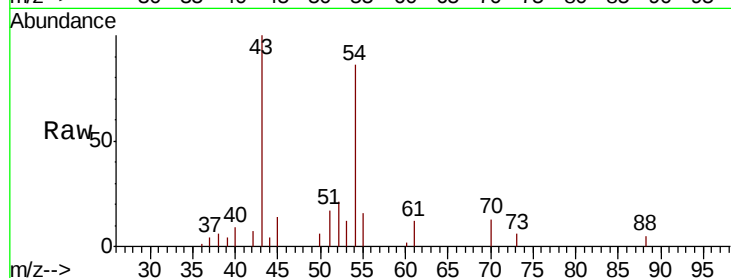
Tgt Ion: 43 Resp: 9325

Ion Ratio Lower Upper

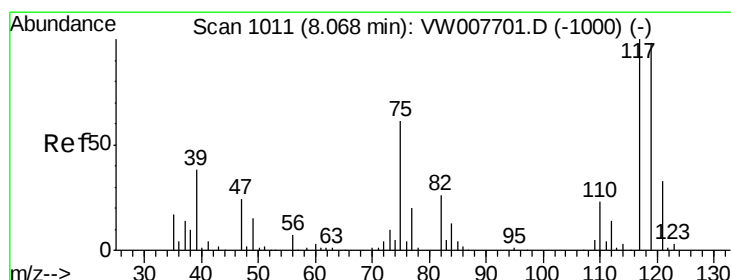
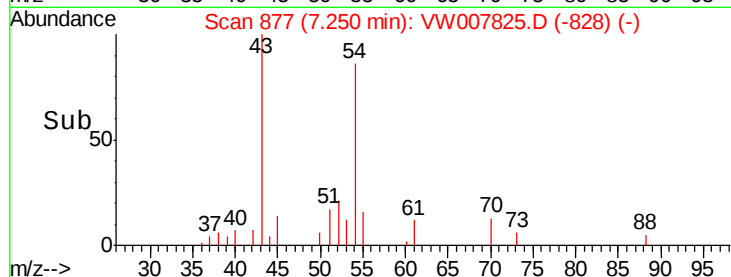
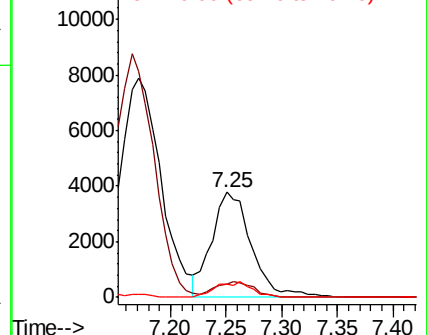
43 100

61 14.3 11.2 16.8

70 13.5 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 17.653 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

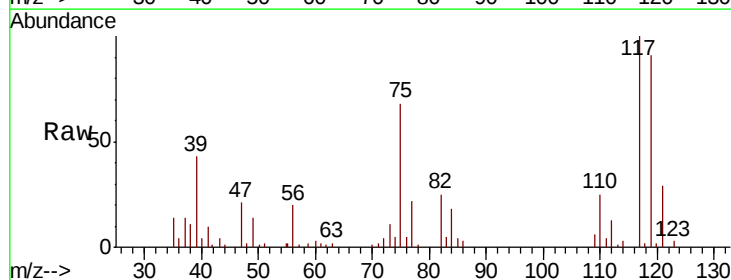
Tgt Ion: 117 Resp: 21730

Ion Ratio Lower Upper

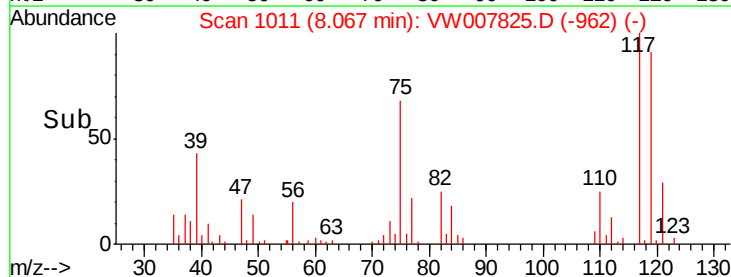
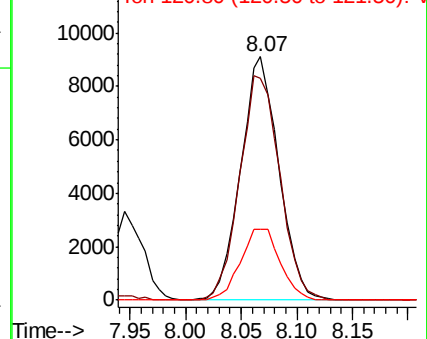
117 100

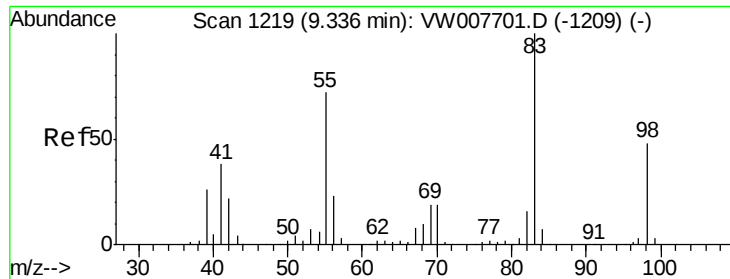
119 91.1 78.2 117.2

121 28.8 26.1 39.1



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

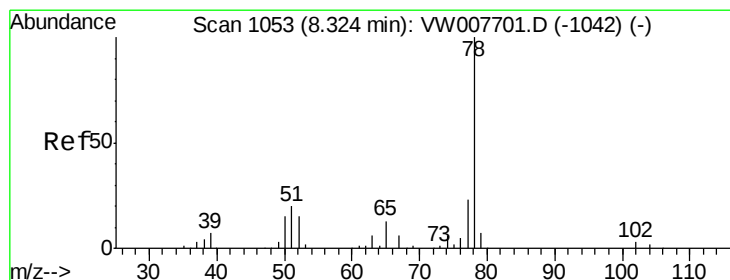
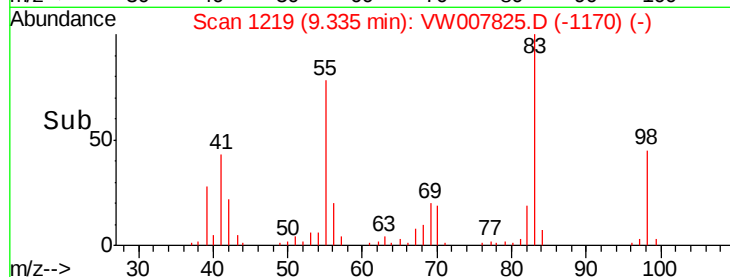
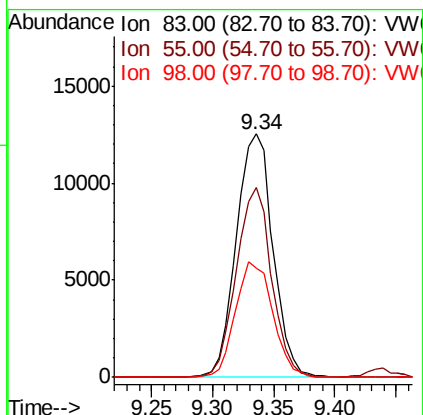
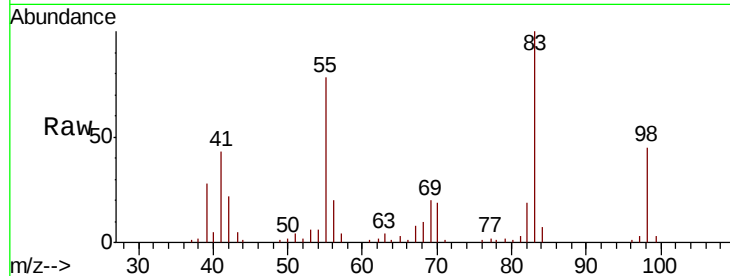




#39  
Methylcyclohexane  
Concen: 20.072 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

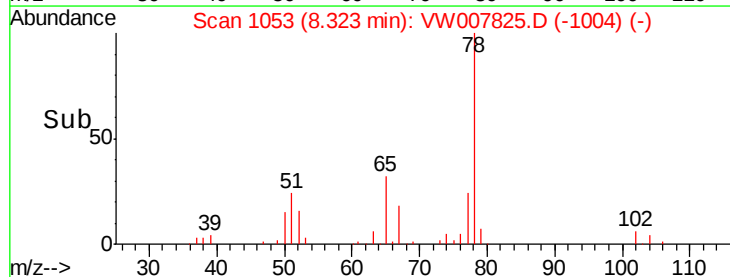
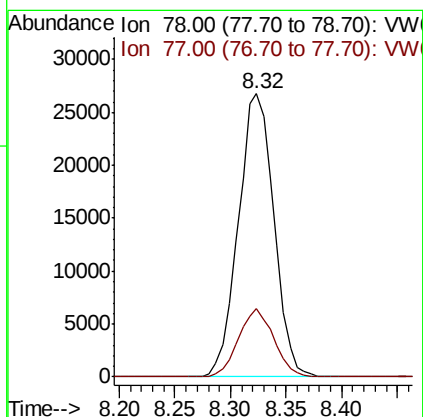
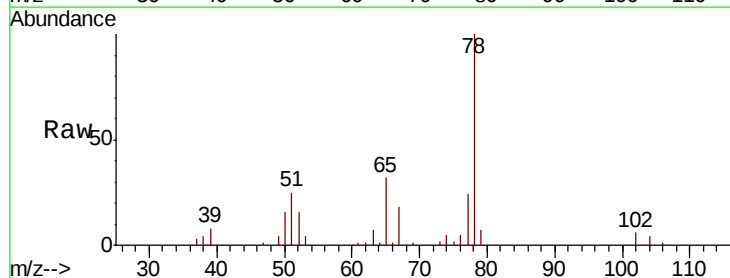
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

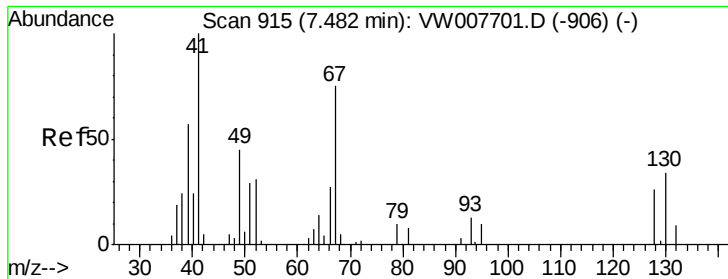
Tgt Ion: 83 Resp: 26069  
Ion Ratio Lower Upper  
83 100  
55 78.2 57.2 85.8  
98 45.1 38.6 58.0



#40  
Benzene  
Concen: 21.287 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 78 Resp: 59371  
Ion Ratio Lower Upper  
78 100  
77 23.9 18.7 28.1





#41

Methacrylonitrile

Concen: 26.705 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

Tgt Ion: 41 Resp: 5469

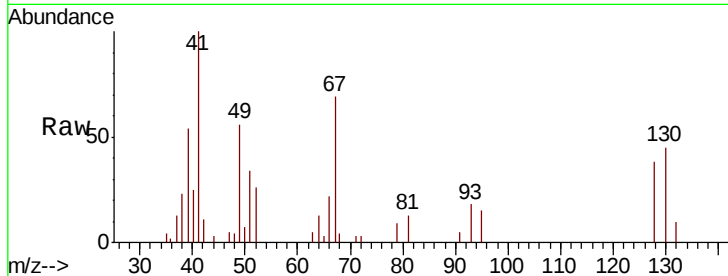
Ion Ratio Lower Upper

41 100

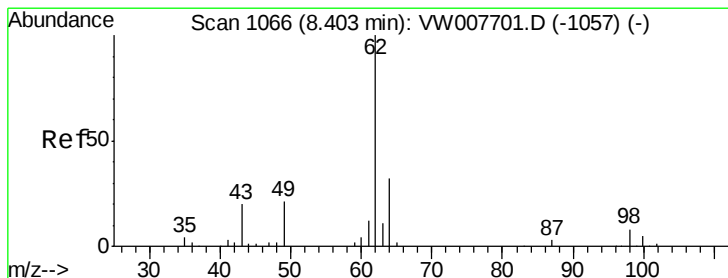
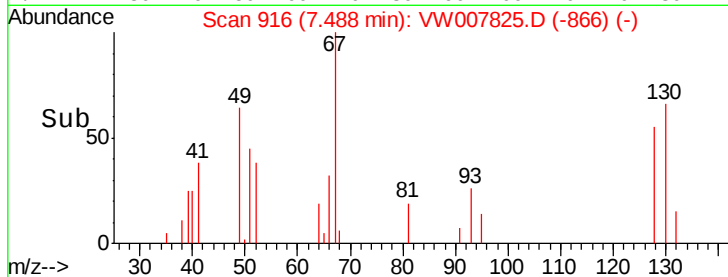
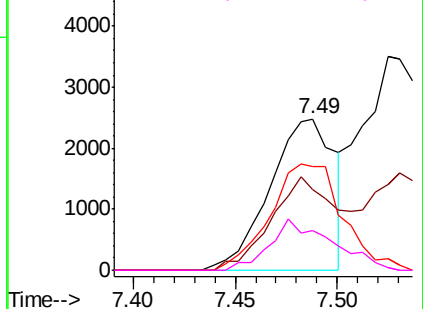
39 63.5 54.2 81.4

67 78.8 65.7 98.5

52 32.6 26.2 39.4



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 21.168 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW007825.D

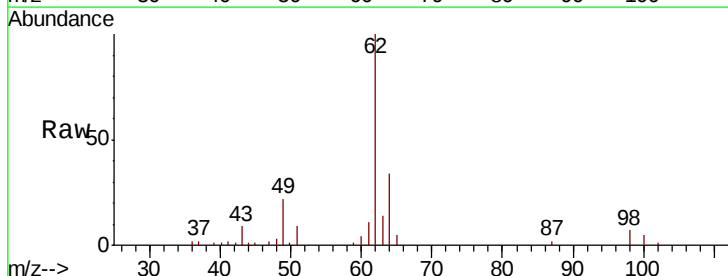
Acq: 22 Dec 2018 07:05

Tgt Ion: 62 Resp: 19785

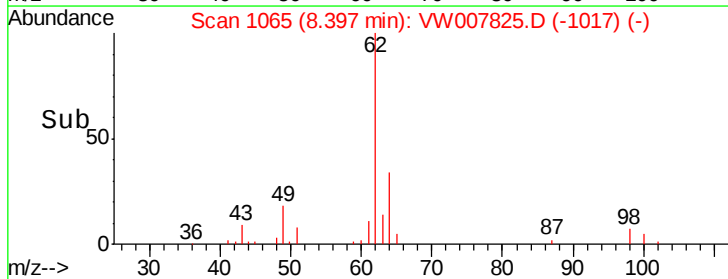
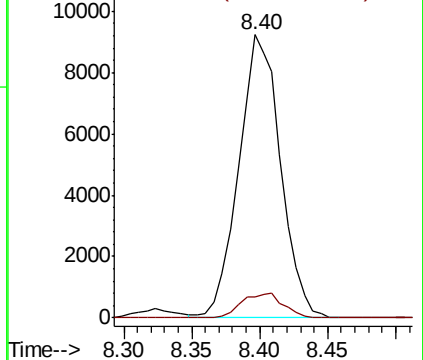
Ion Ratio Lower Upper

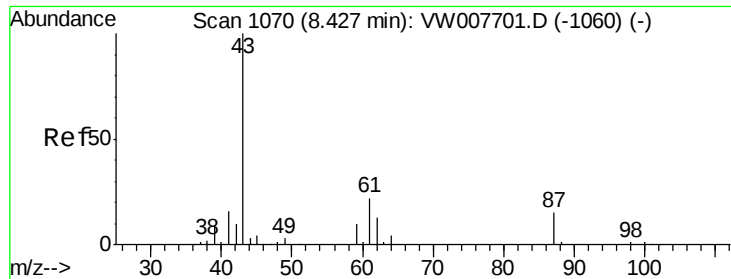
62 100

98 8.6 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VW  
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 26.093 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

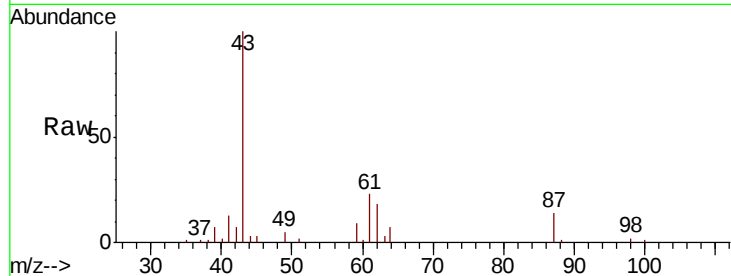
Tgt Ion: 43 Resp: 18857

Ion Ratio Lower Upper

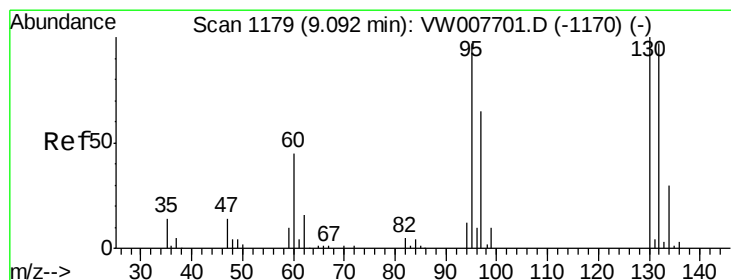
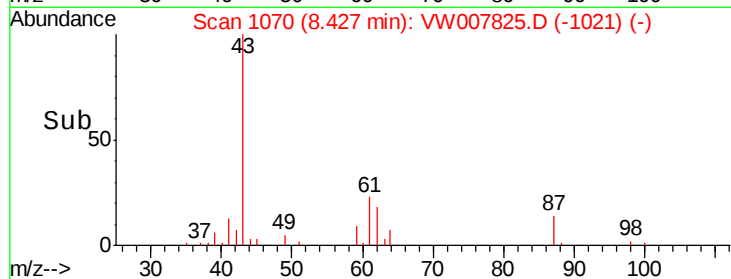
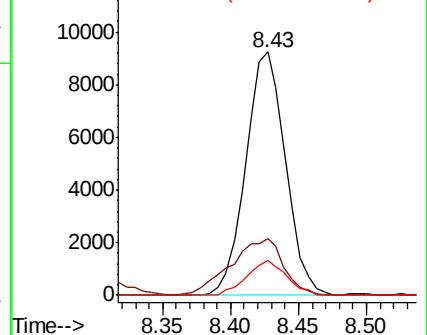
43 100

61 30.8 26.3 39.5

87 14.3 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 20.728 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW007825.D

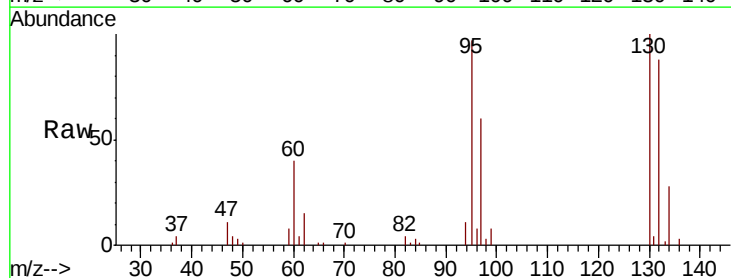
Acq: 22 Dec 2018 07:05

Tgt Ion: 130 Resp: 17483

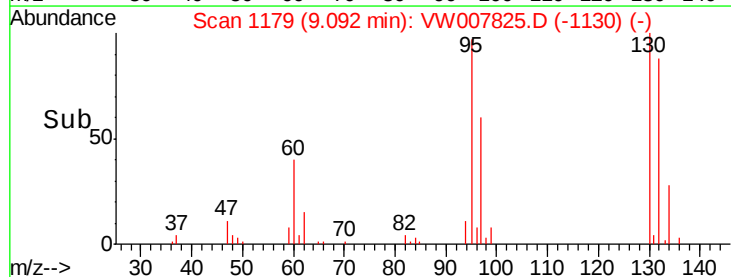
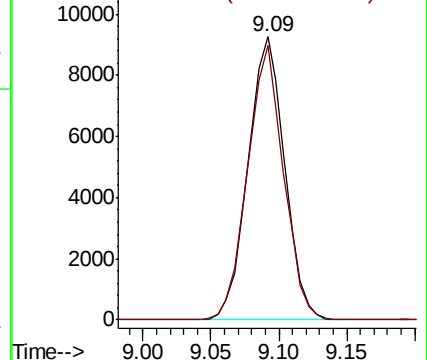
Ion Ratio Lower Upper

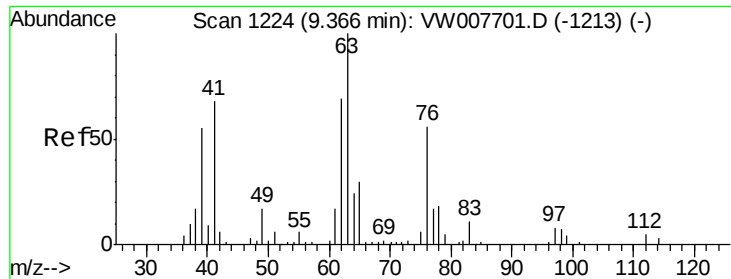
130 100

95 97.1 0.0 194.8



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VW

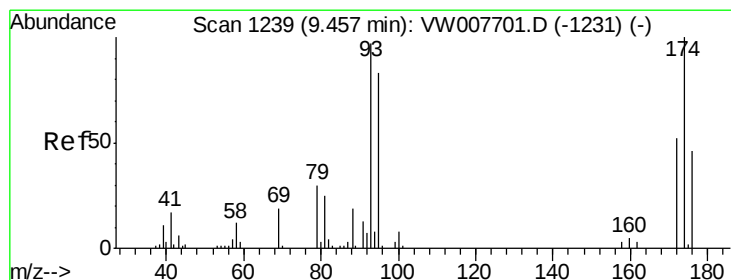
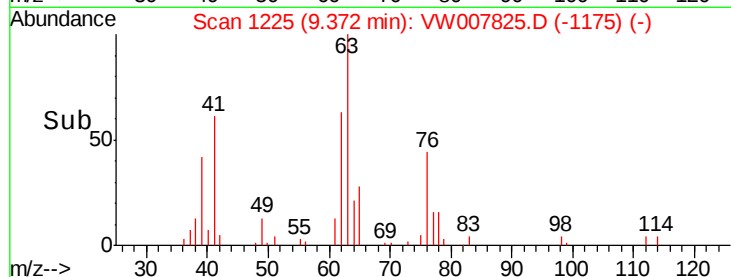
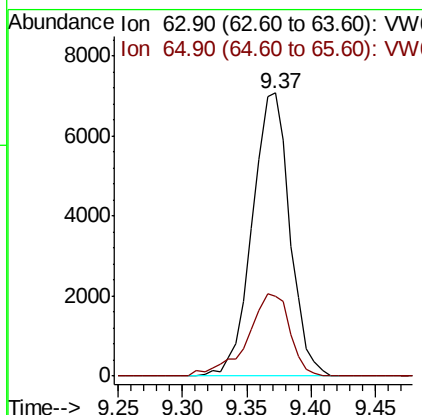
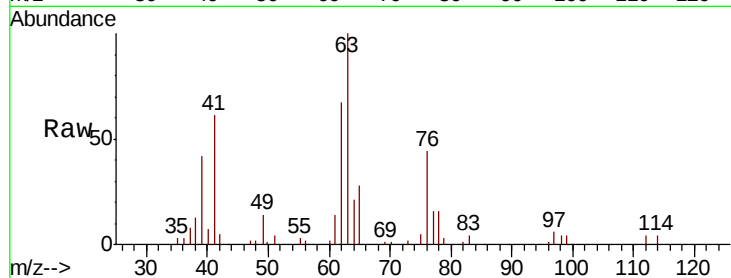




#45  
 1,2-Dichloropropane  
 Concen: 22.993 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

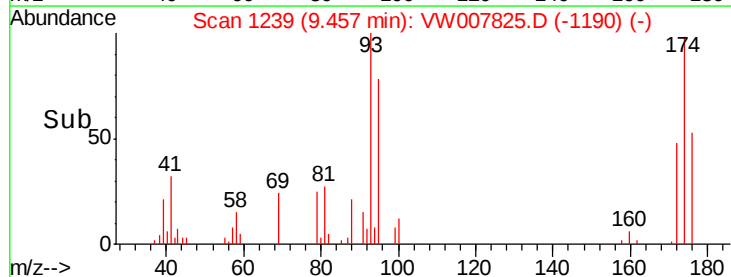
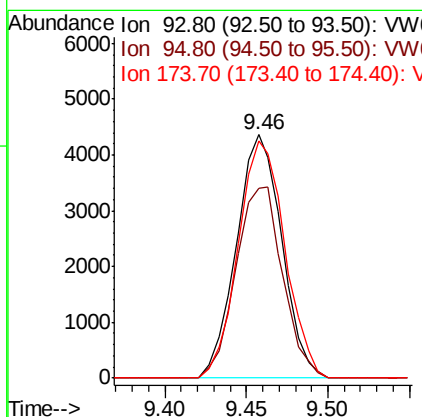
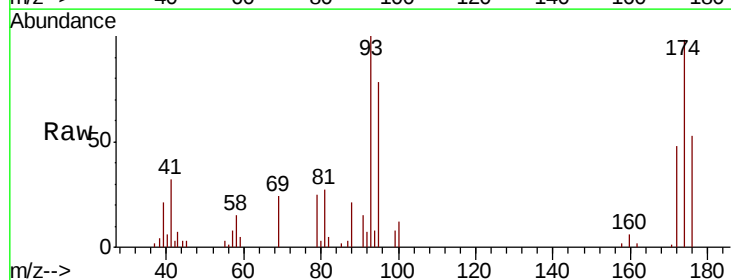
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

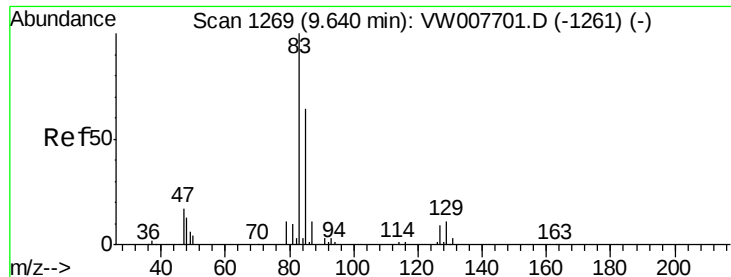
Tgt Ion: 63 Resp: 14230  
 Ion Ratio Lower Upper  
 63 100  
 65 28.1 23.8 35.8



#46  
 Dibromomethane  
 Concen: 22.126 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 93 Resp: 8429  
 Ion Ratio Lower Upper  
 93 100  
 95 81.2 67.5 101.3  
 174 100.1 83.9 125.9

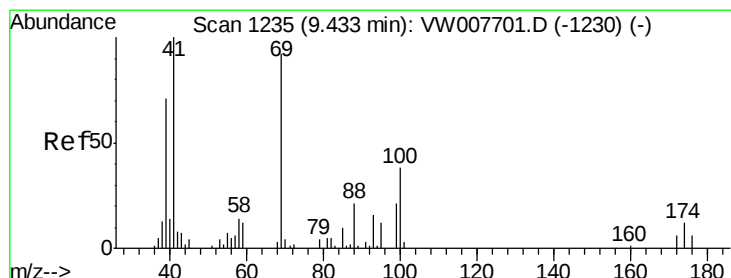
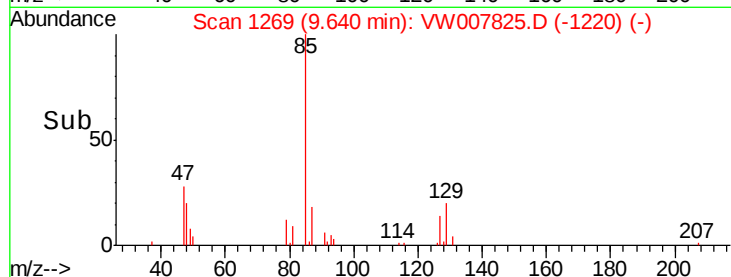
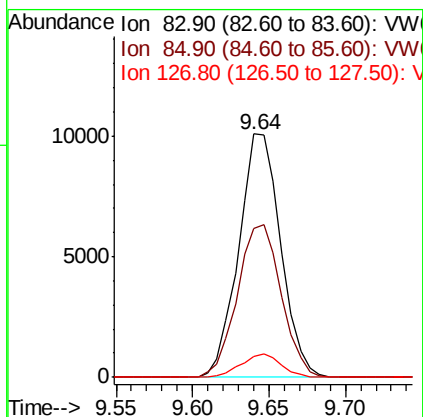
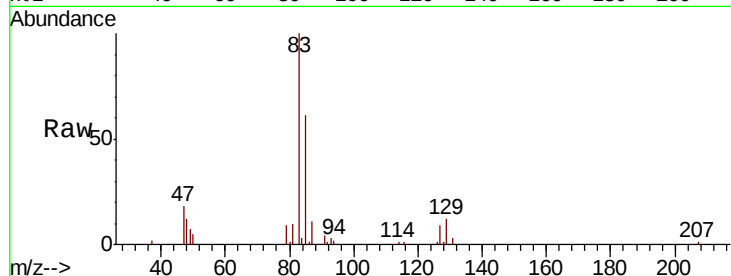




#47  
Bromodichloromethane  
Concen: 19.198 ug/l  
RT: 9.64 min Scan# 1269  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

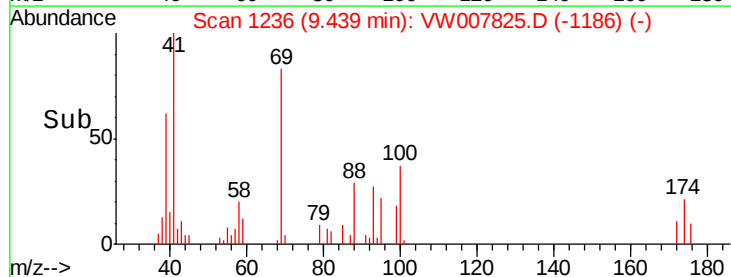
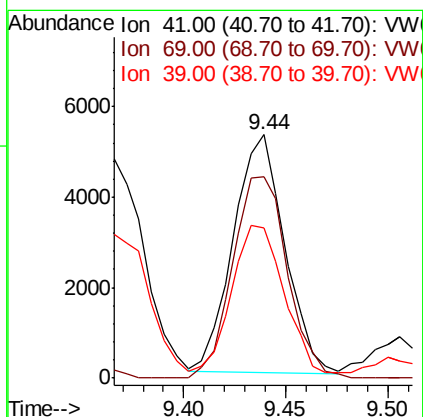
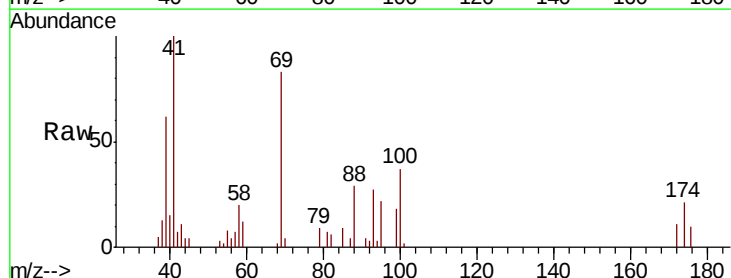
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

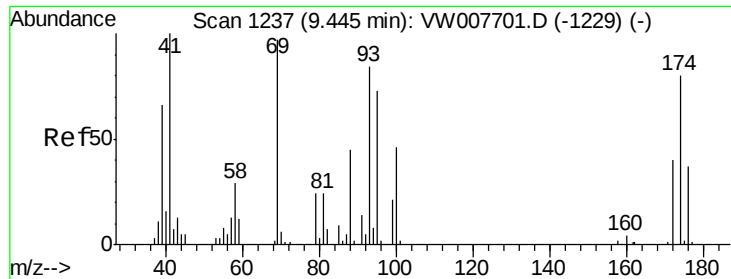
Tgt Ion: 83 Resp: 19227  
Ion Ratio Lower Upper  
83 100  
85 60.9 51.4 77.0  
127 8.7 7.5 11.3



#48  
Methyl methacrylate  
Concen: 25.540 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. 0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 41 Resp: 9213  
Ion Ratio Lower Upper  
41 100  
69 90.1 74.2 111.2  
39 63.3 53.9 80.9

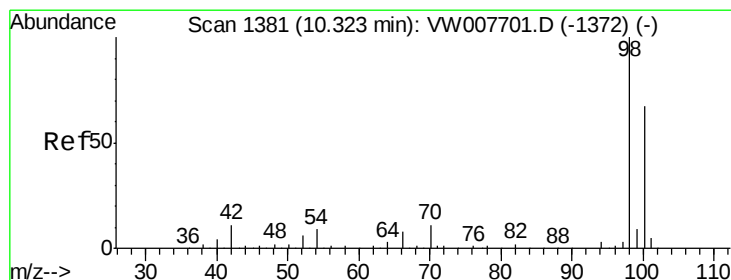
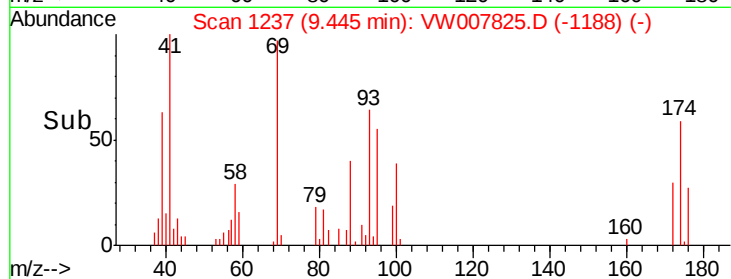
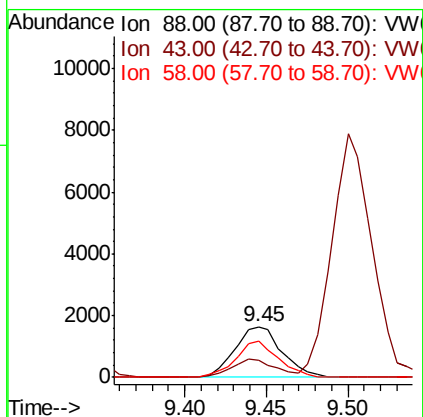
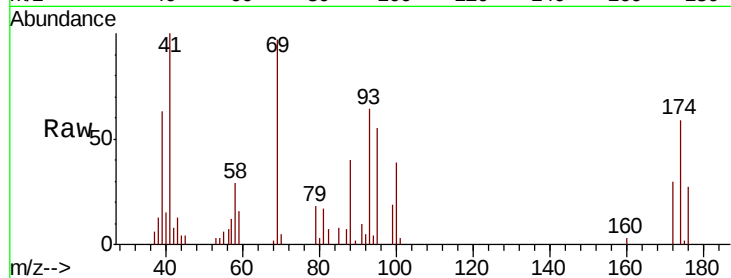




#49  
1,4-Dioxane  
Concen: 542.716 ug/l  
RT: 9.45 min Scan# 1237  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

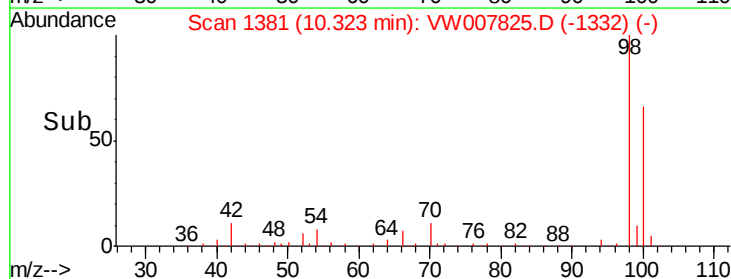
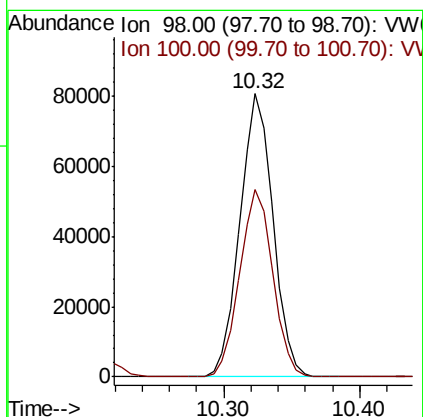
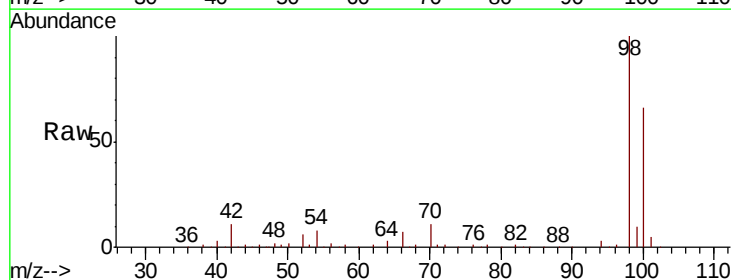
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 88 Resp: 3278  
Ion Ratio Lower Upper  
88 100  
43 34.1 25.6 38.4  
58 64.8 52.3 78.5



#50  
Toluene-d8  
Concen: 55.201 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 98 Resp: 137478  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.2 78.2

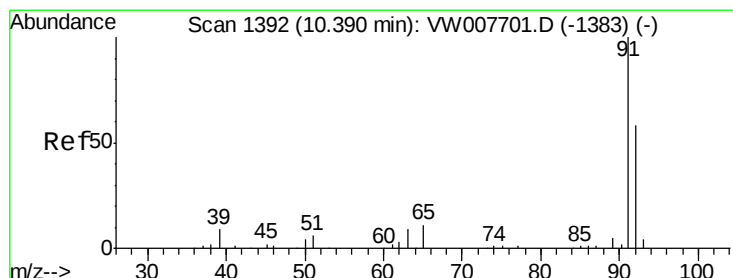
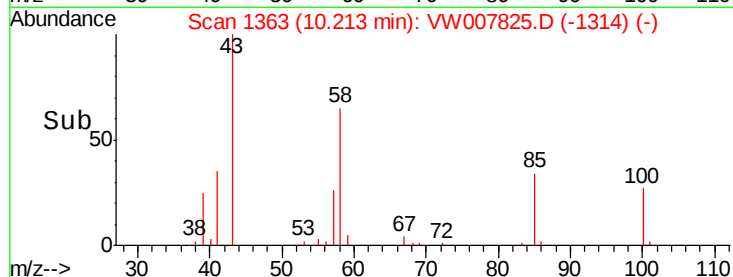
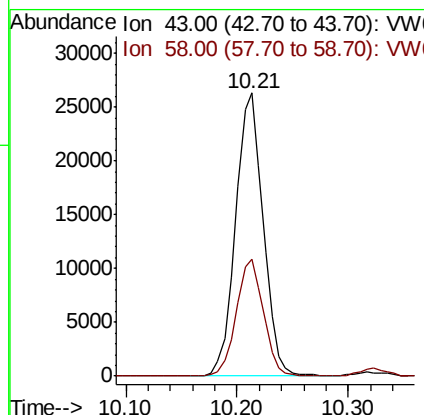
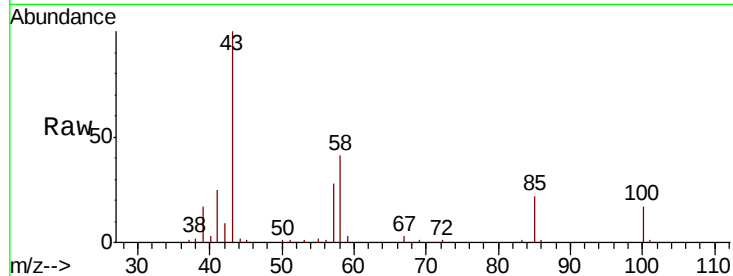




#51  
4-Methyl-2-Pentanone  
Concen: 132.256 ug/l  
RT: 10.21 min Scan# 1363  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

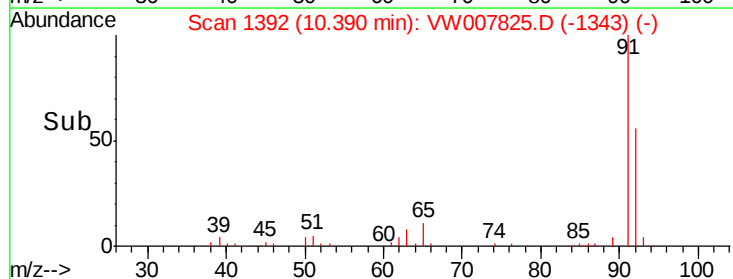
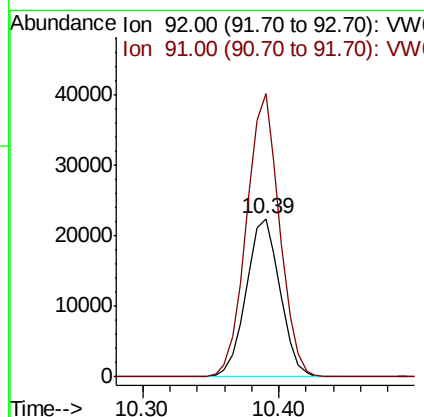
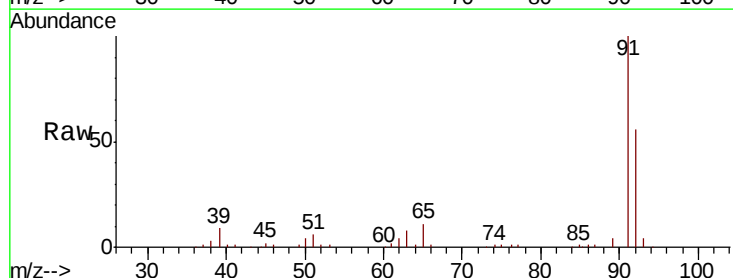
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 43 Resp: 45170  
Ion Ratio Lower Upper  
43 100  
58 40.6 33.2 49.8



#52  
Toluene  
Concen: 20.859 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 92 Resp: 39034  
Ion Ratio Lower Upper  
92 100  
91 174.5 137.0 205.4





#53

t-1,3-Dichloropropene

Concen: 20.173 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.01 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampled :

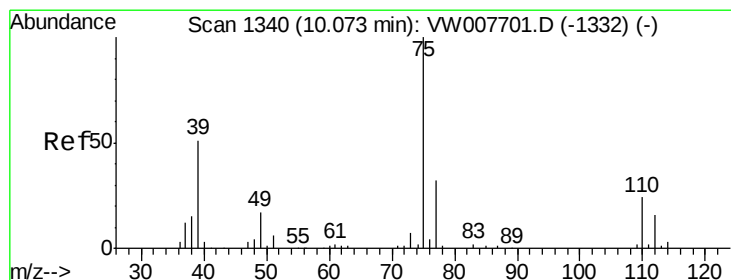
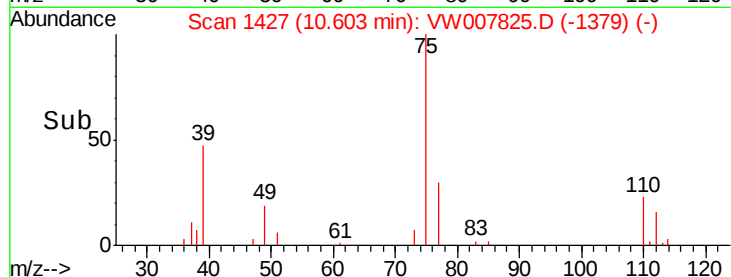
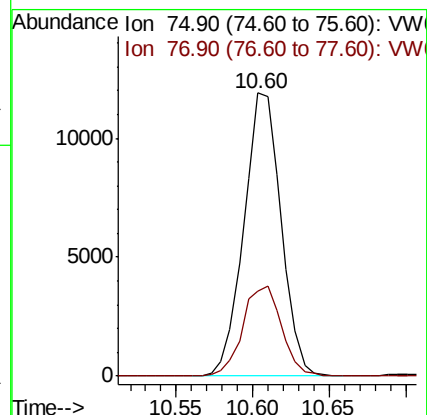
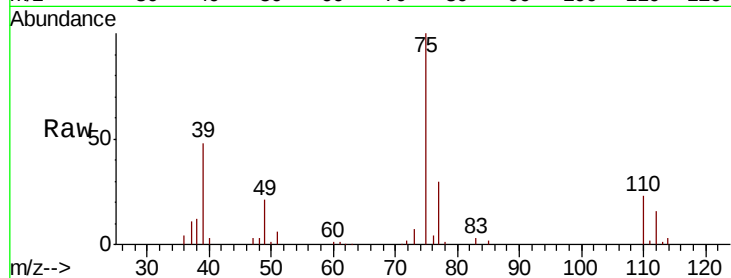
VW1223SBS02

Tgt Ion: 75 Resp: 20096

Ion Ratio Lower Upper

75 100

77 30.1 25.2 37.8



#54

cis-1,3-Dichloropropene

Concen: 20.254 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

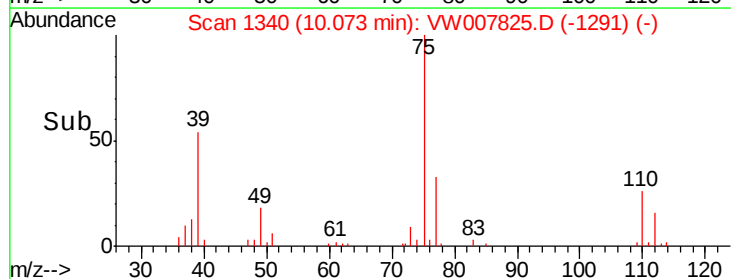
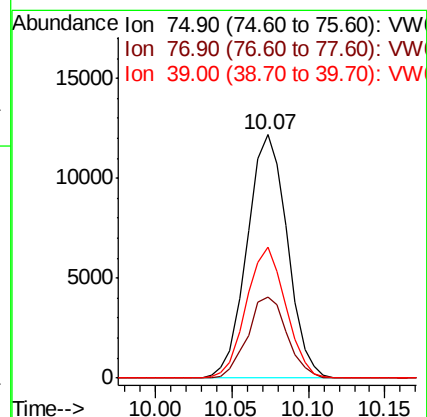
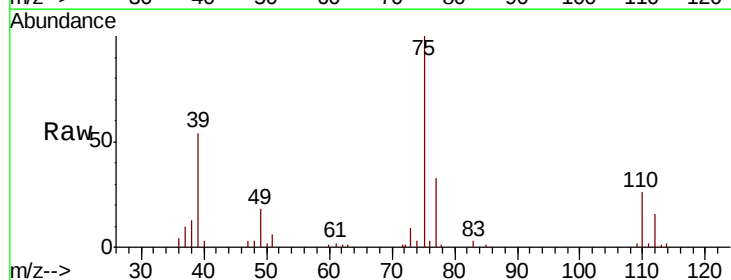
Tgt Ion: 75 Resp: 22287

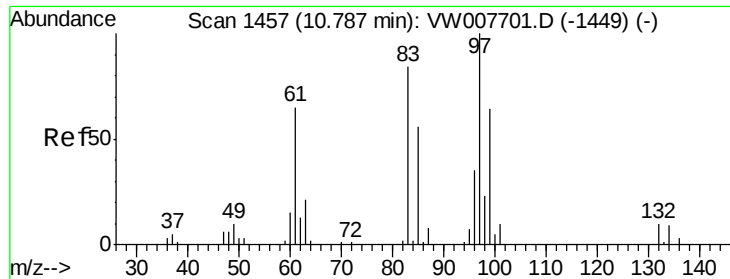
Ion Ratio Lower Upper

75 100

77 33.1 25.5 38.3

39 53.7 41.2 61.8





#55

1,1,2-Trichloroethane

Concen: 22.479 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

Tgt Ion: 97 Resp: 11806

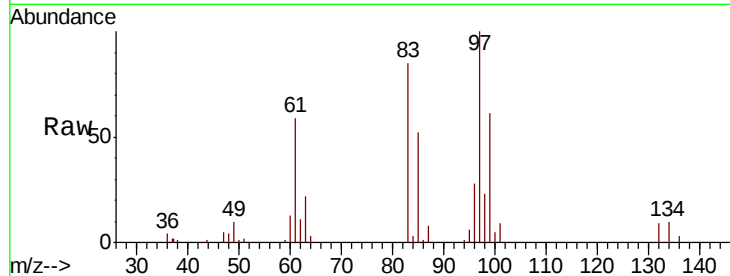
Ion Ratio Lower Upper

97 100

83 84.8 67.5 101.3

85 52.3 44.8 67.2

99 60.7 51.0 76.4



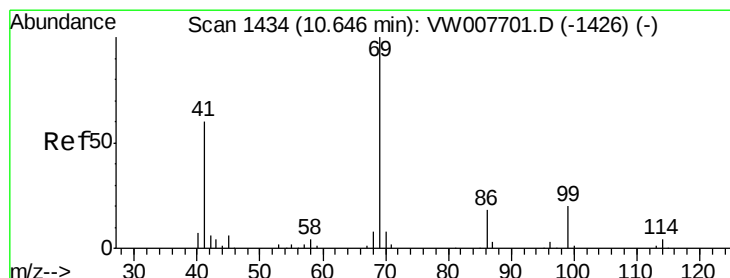
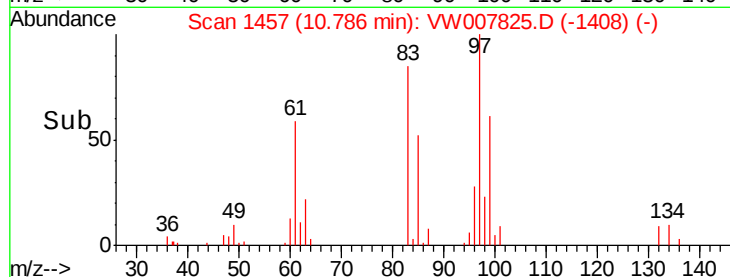
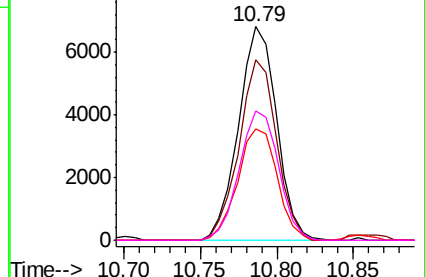
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 24.715 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

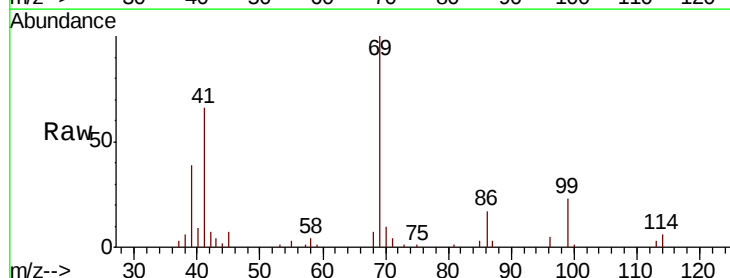
Tgt Ion: 69 Resp: 15336

Ion Ratio Lower Upper

69 100

41 63.5 48.9 73.3

39 36.9 31.3 46.9

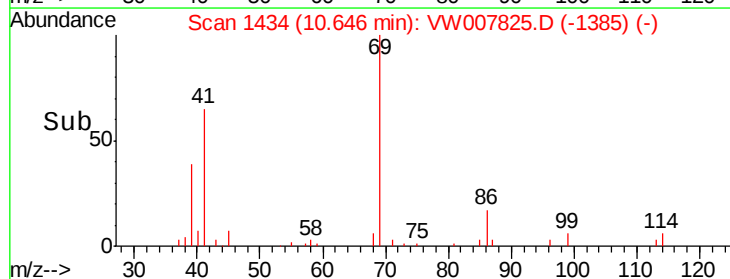
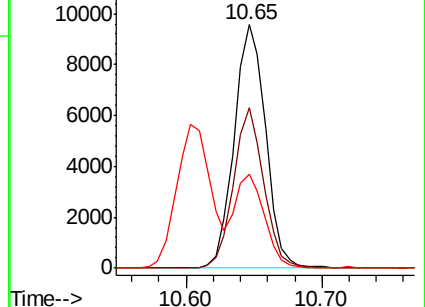


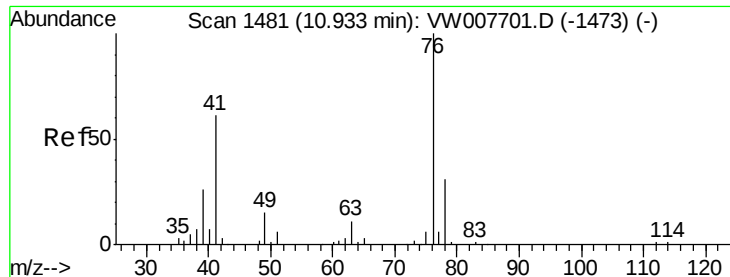
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

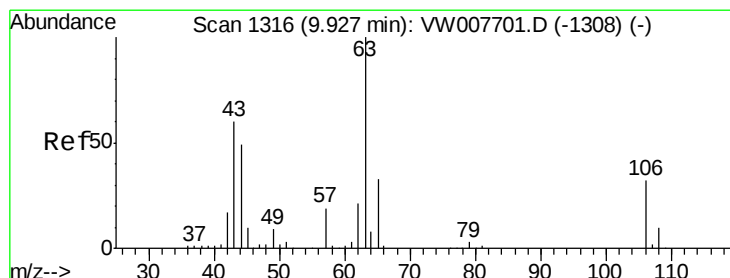
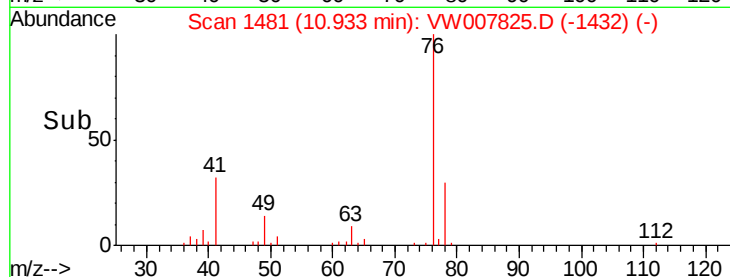
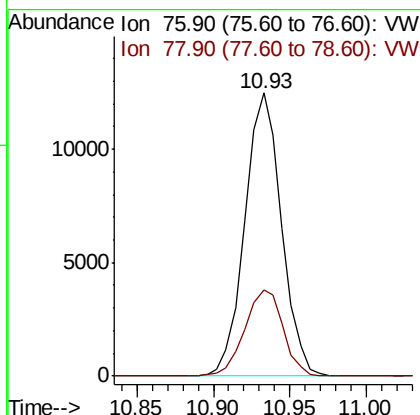
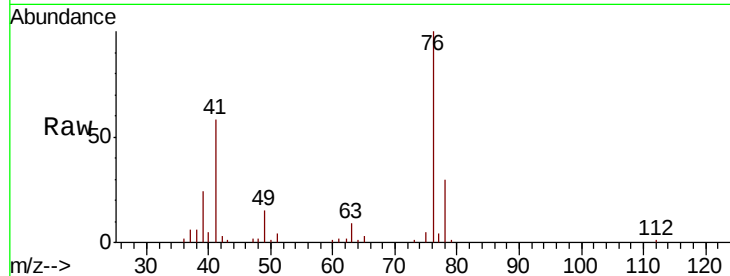




#57  
 1,3-Dichloropropane  
 Concen: 23.787 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

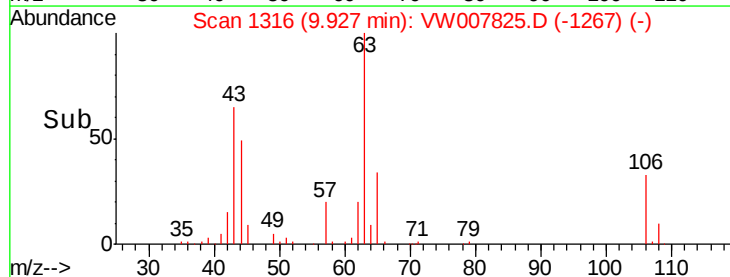
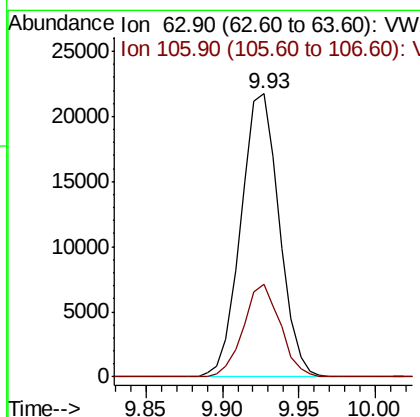
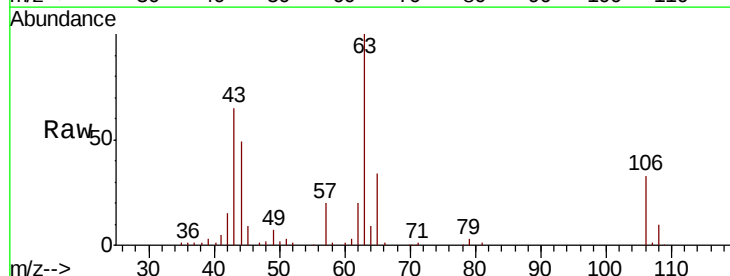
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

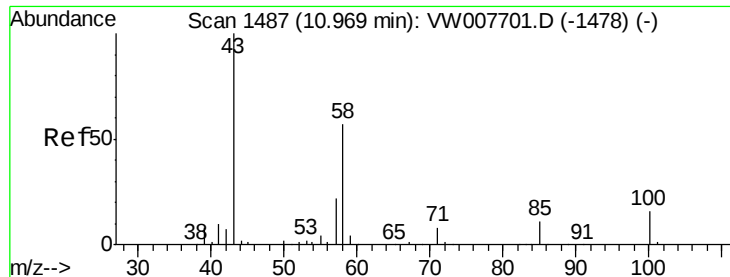
Tgt Ion: 76 Resp: 20745  
 Ion Ratio Lower Upper  
 76 100  
 78 31.8 26.2 39.2



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 133.641 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 63 Resp: 37862  
 Ion Ratio Lower Upper  
 63 100  
 106 31.4 25.9 38.9

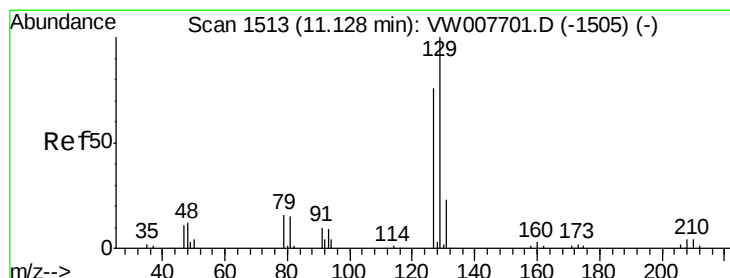
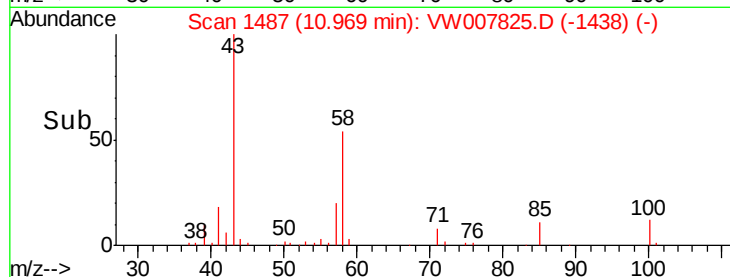
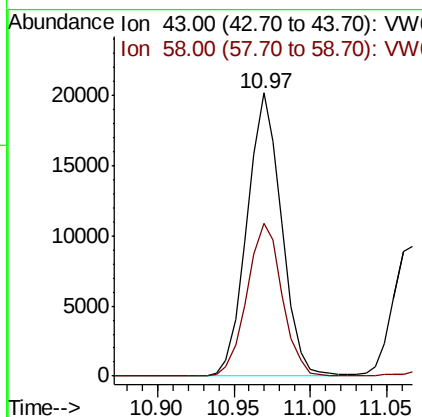
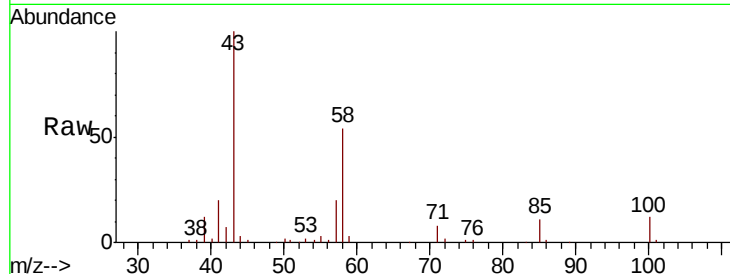




#59  
2-Hexanone  
Concen: 131.625 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

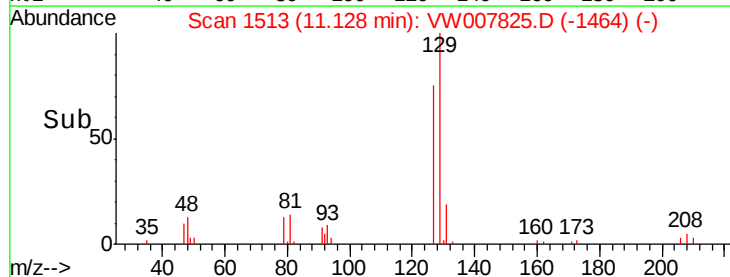
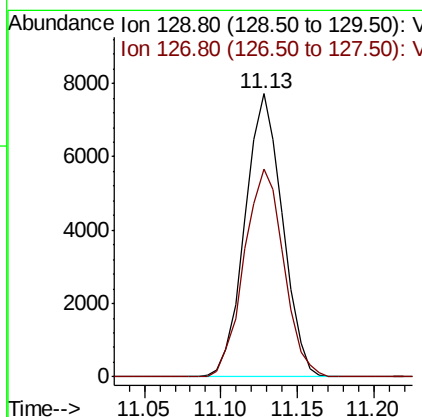
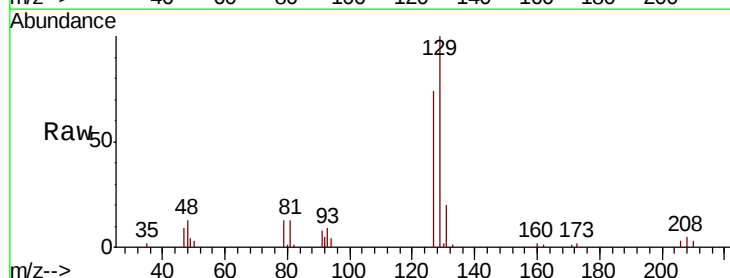
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 43 Resp: 31615  
Ion Ratio Lower Upper  
43 100  
58 54.9 27.7 83.1



#60  
Dibromochloromethane  
Concen: 18.928 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 129 Resp: 13162  
Ion Ratio Lower Upper  
129 100  
127 77.7 38.3 114.9

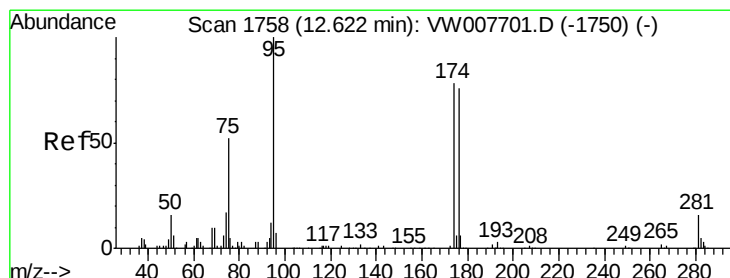
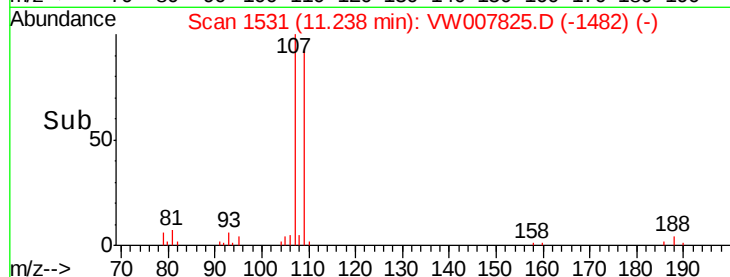
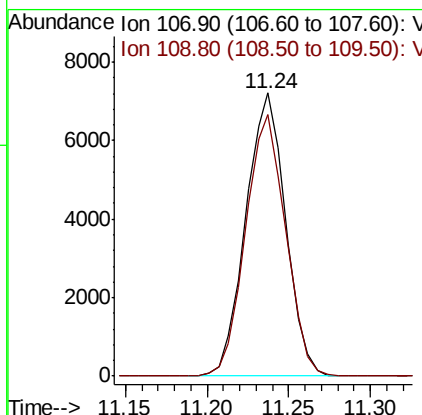
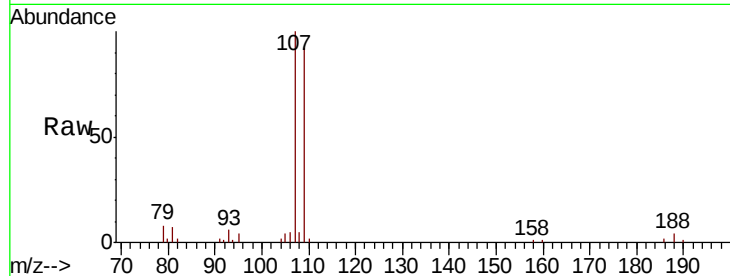




#61  
 1,2-Dibromoethane  
 Concen: 22.982 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

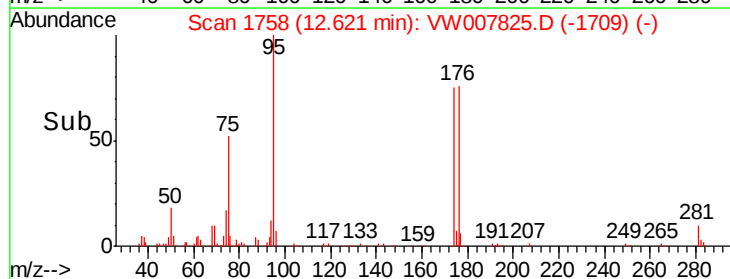
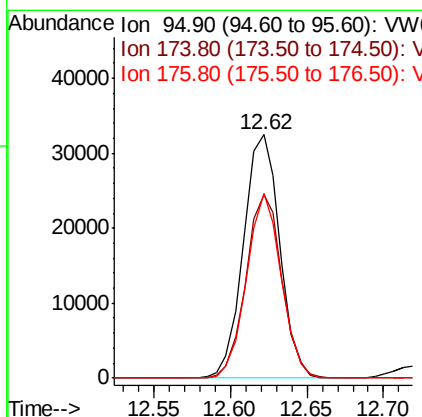
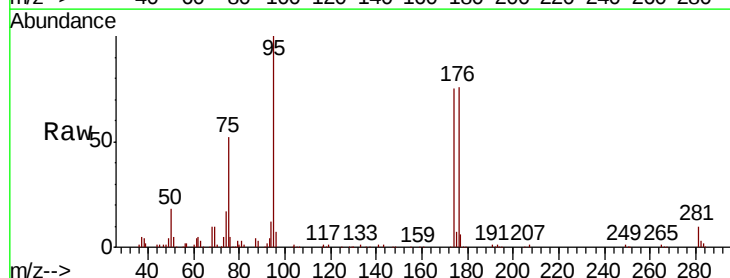
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

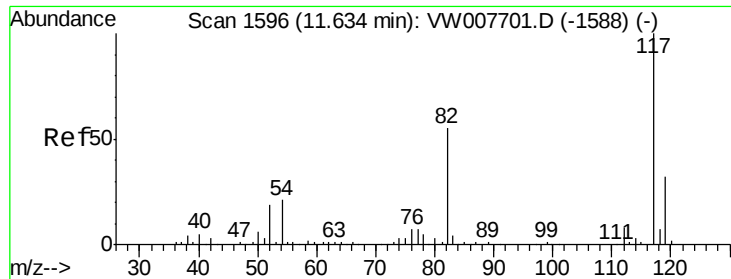
Tgt Ion: 107 Resp: 12223  
 Ion Ratio Lower Upper  
 107 100  
 109 93.2 75.4 113.0



#62  
 4-Bromofluorobenzene  
 Concen: 55.460 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 95 Resp: 53360  
 Ion Ratio Lower Upper  
 95 100  
 174 74.9 0.0 152.2  
 176 72.5 0.0 146.8

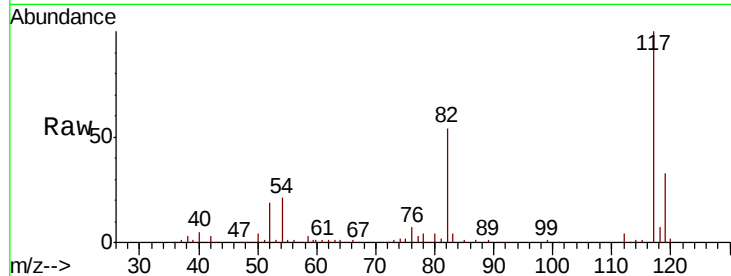




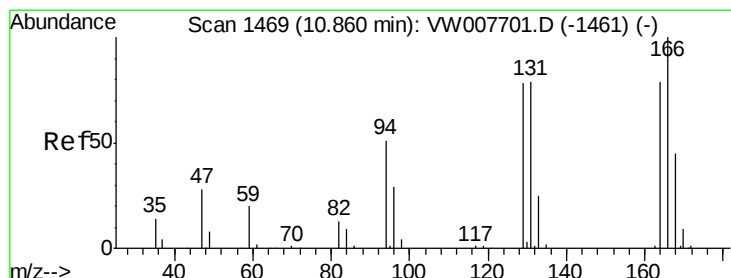
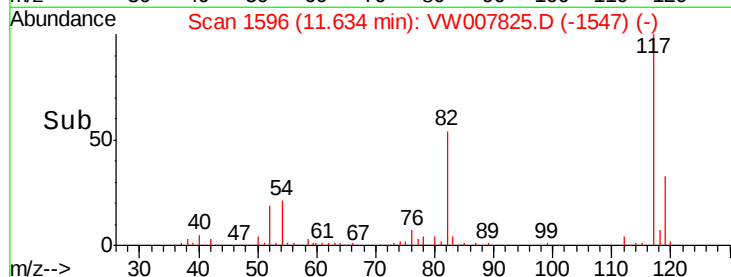
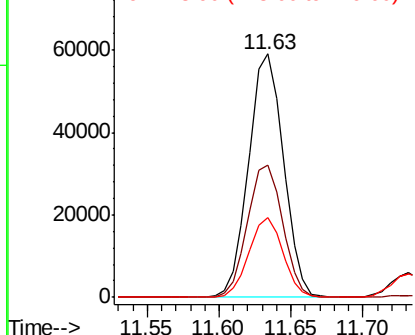
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion:117 Resp: 98906  
Ion Ratio Lower Upper  
117 100  
82 54.3 44.3 66.5  
119 32.7 25.7 38.5

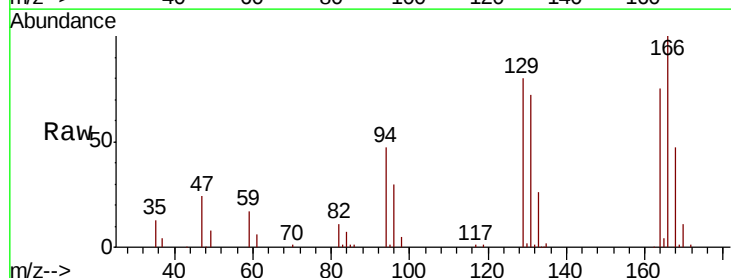


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

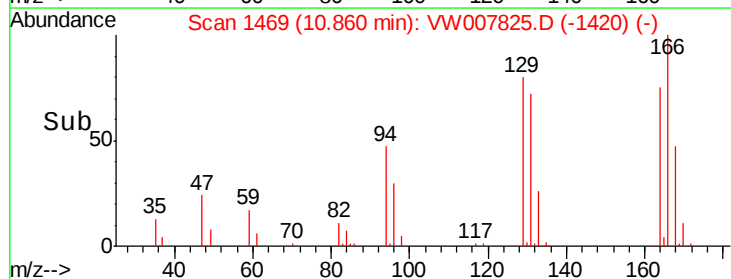
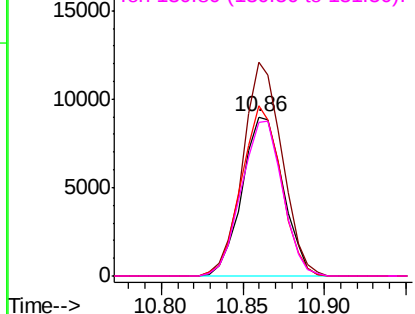


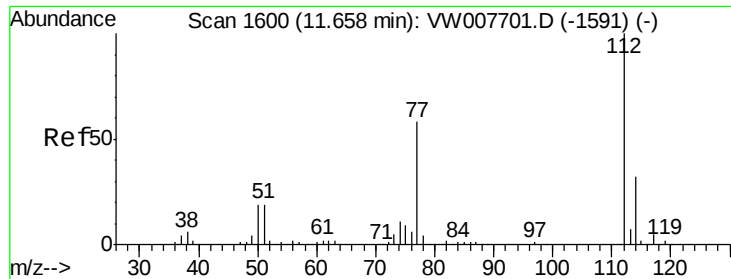
#64  
Tetrachloroethene  
Concen: 22.612 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:164 Resp: 15837  
Ion Ratio Lower Upper  
164 100  
166 134.1 101.0 151.6  
129 107.3 78.7 118.1  
131 96.4 79.4 119.0



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

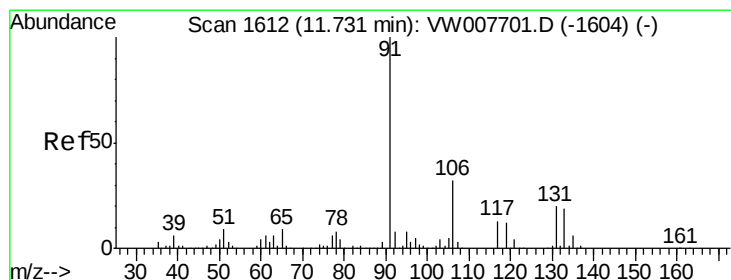
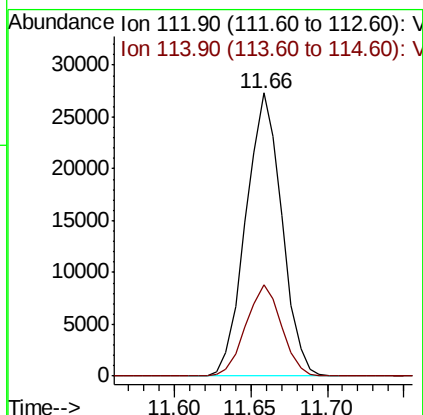
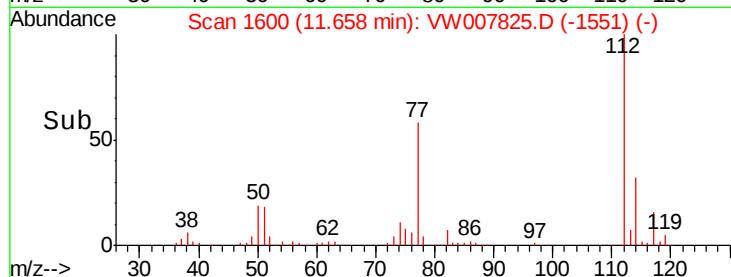
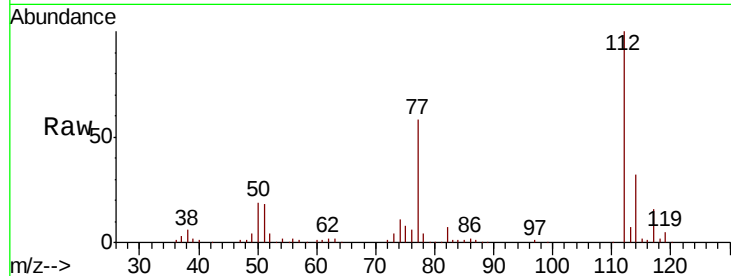




#65  
Chlorobenzene  
Concen: 20.873 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

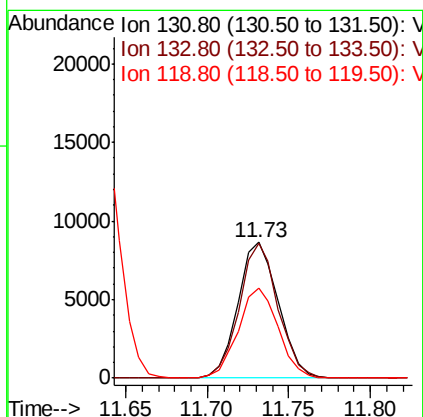
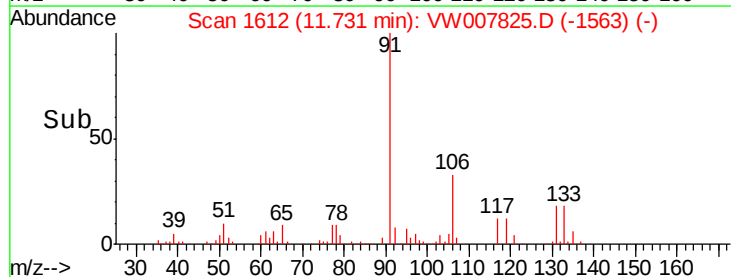
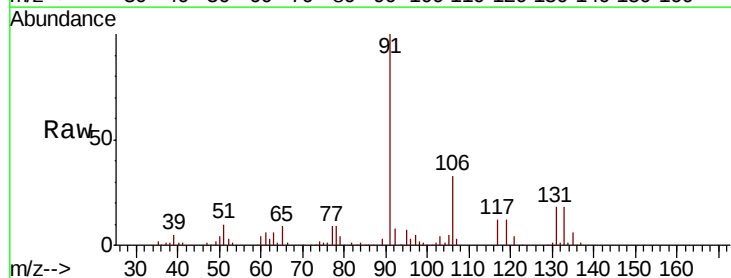
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion:112 Resp: 44683  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.2 37.8



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.467 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:131 Resp: 14891  
Ion Ratio Lower Upper  
131 100  
133 95.3 47.5 142.5  
119 65.6 30.2 90.6

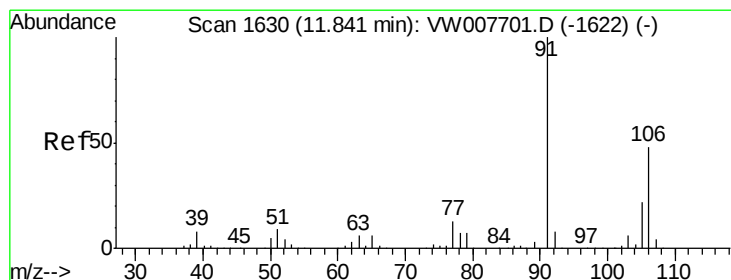
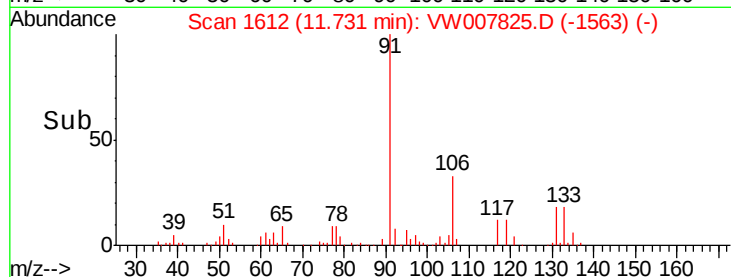
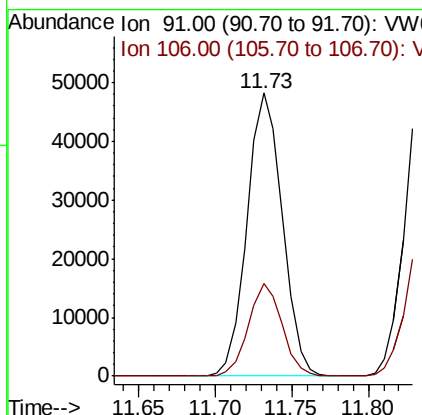
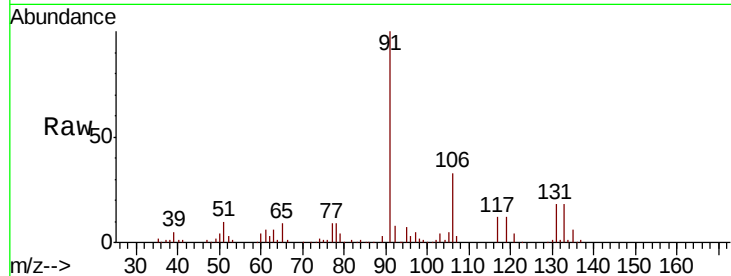




#67  
Ethyl Benzene  
Concen: 21.047 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

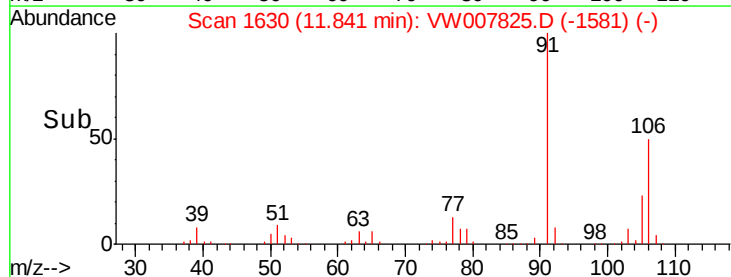
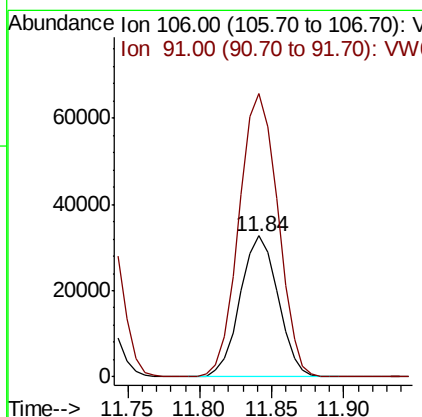
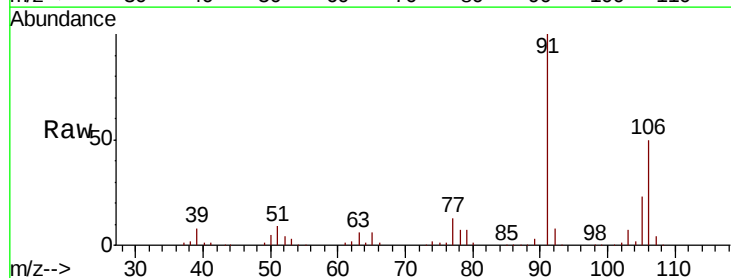
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion: 91 Resp: 77318  
Ion Ratio Lower Upper  
91 100  
106 32.7 25.8 38.8



#68  
m/p-Xylenes  
Concen: 41.980 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 106 Resp: 59822  
Ion Ratio Lower Upper  
106 100  
91 206.0 165.2 247.8

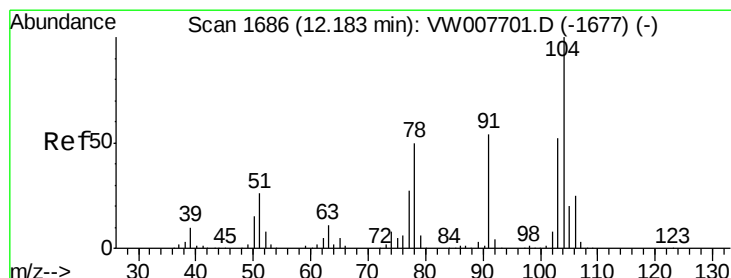
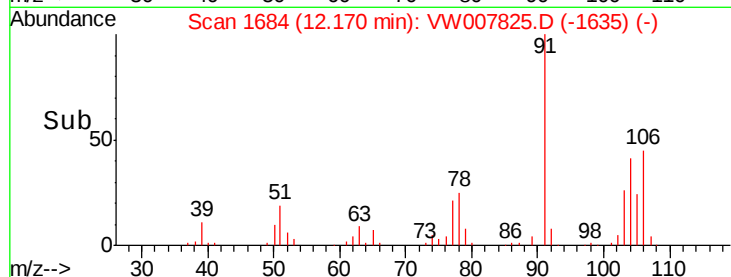
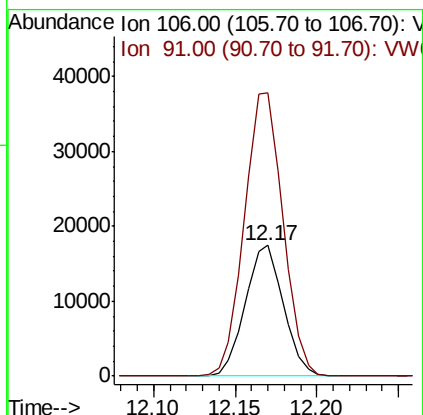
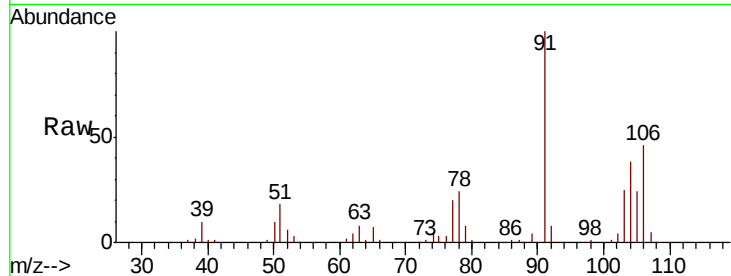




#69  
o-Xylene  
Concen: 21.175 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

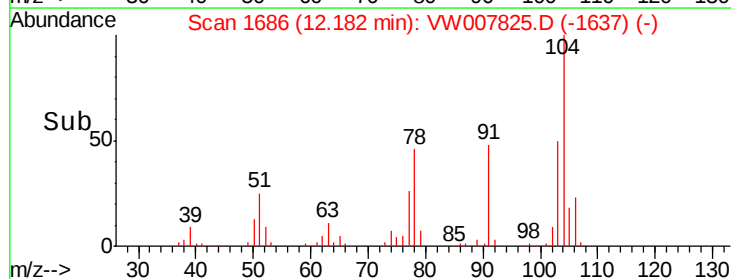
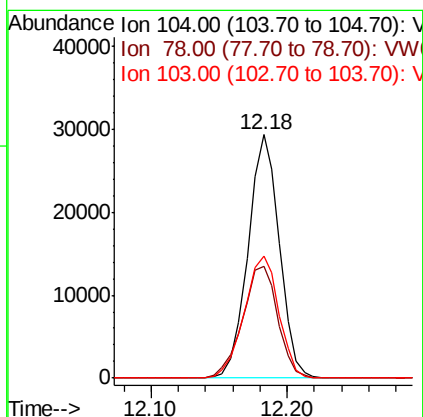
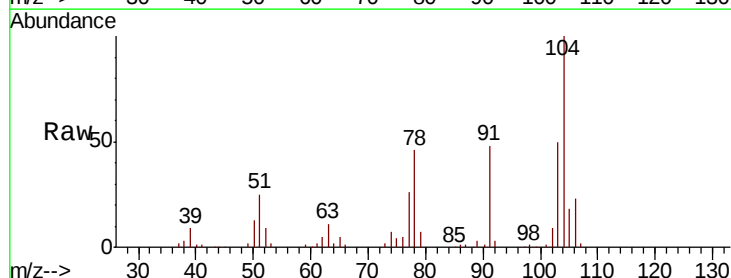
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

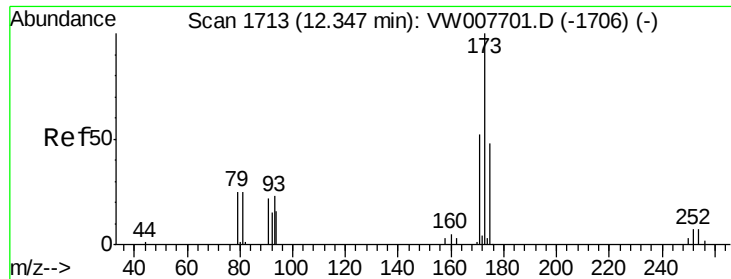
Tgt Ion:106 Resp: 28285  
Ion Ratio Lower Upper  
106 100  
91 220.0 110.5 331.4



#70  
Styrene  
Concen: 21.518 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:104 Resp: 47248  
Ion Ratio Lower Upper  
104 100  
78 52.1 43.4 65.0  
103 55.5 44.5 66.7

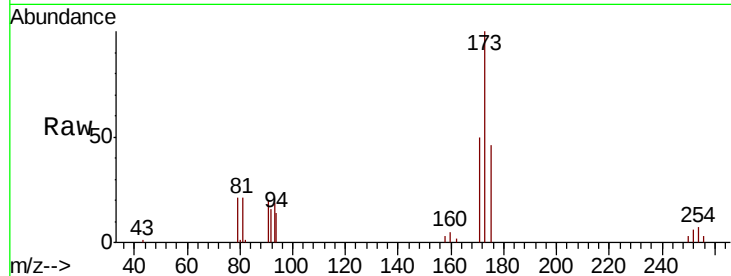




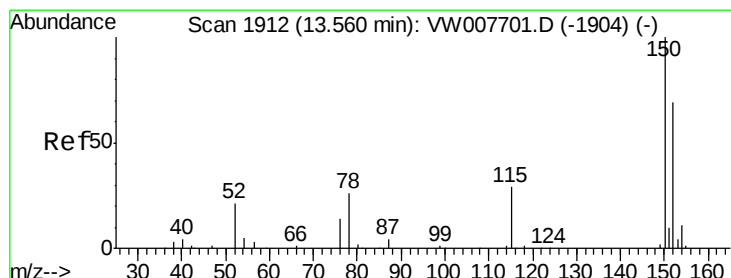
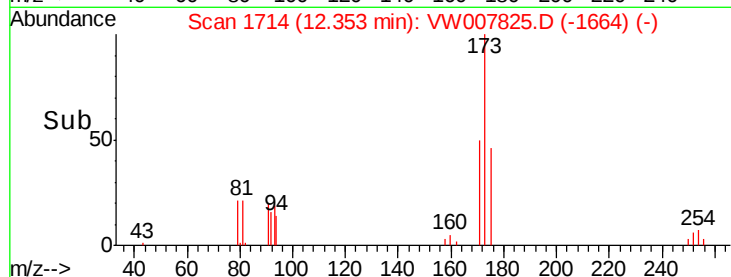
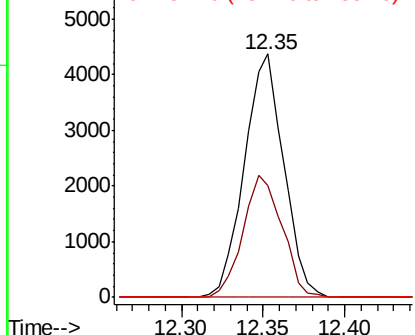
#71  
Bromoform  
Concen: 18.512 ug/l  
RT: 12.35 min Scan# 1714  
Delta R.T. 0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion:173 Resp: 7351  
Ion Ratio Lower Upper  
173 100  
175 49.9 23.9 71.7  
254 0.0 0.0 0.0

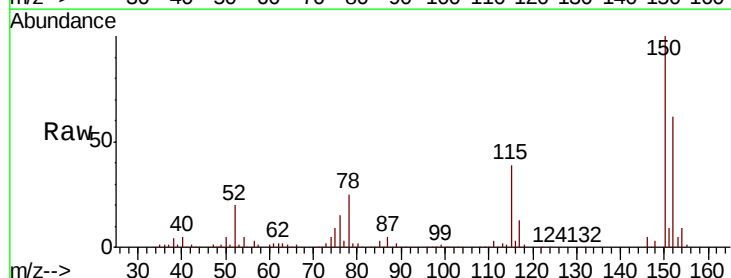


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

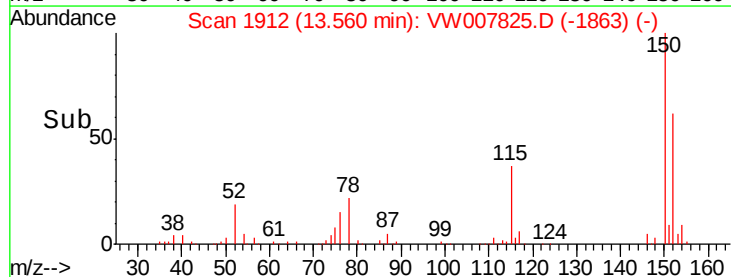
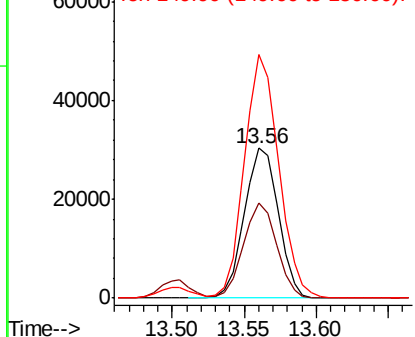


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:152 Resp: 49307  
Ion Ratio Lower Upper  
152 100  
115 61.9 31.8 95.4  
150 164.5 0.0 350.8



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: 21.484 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

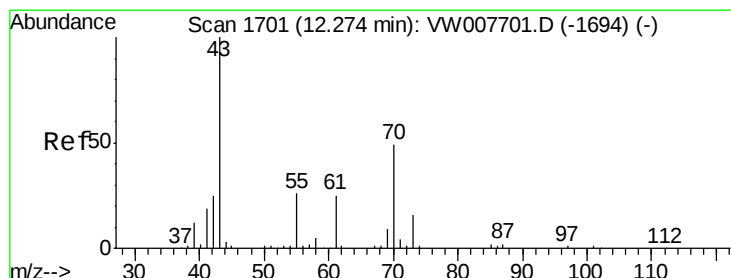
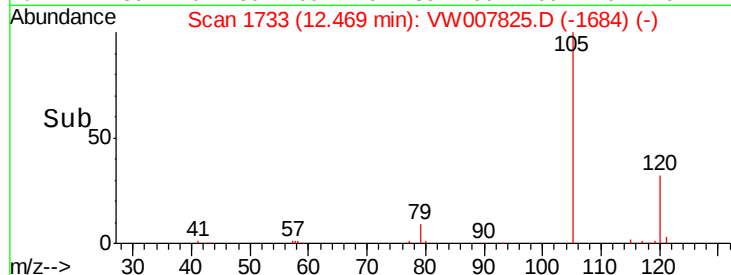
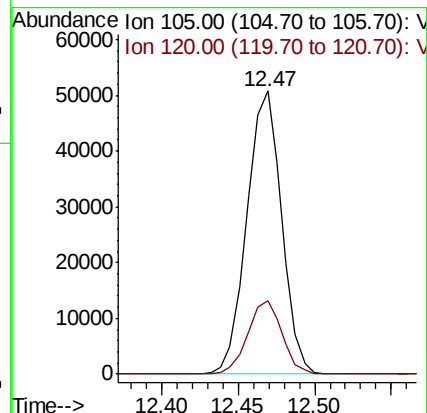
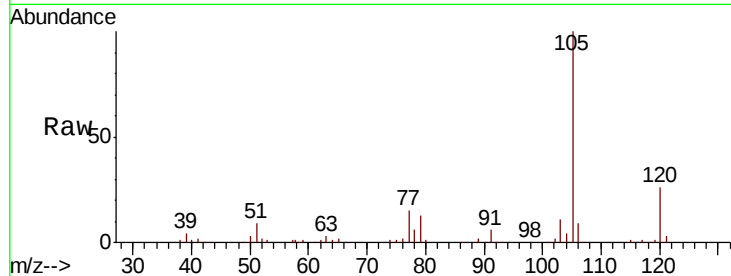
VW1223SBS02

Tgt Ion:105 Resp: 80071

Ion Ratio Lower Upper

105 100

120 25.6 13.1 39.3



#74

N-ethyl acetate

Concen: 26.626 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Tgt Ion: 43 Resp: 17189

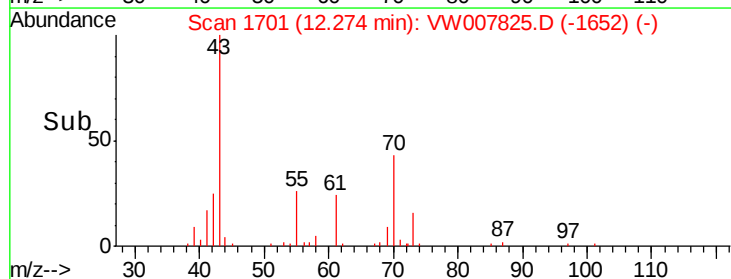
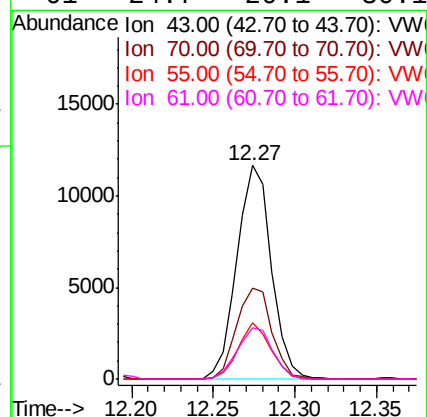
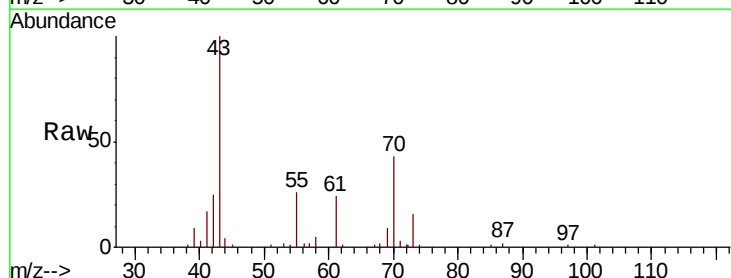
Ion Ratio Lower Upper

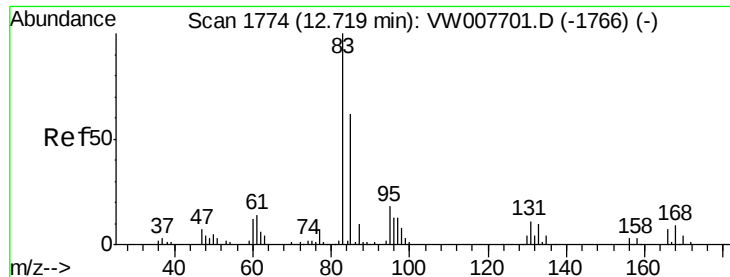
43 100

70 43.5 37.6 56.4

55 24.6 21.7 32.5

61 24.7 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 23.974 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

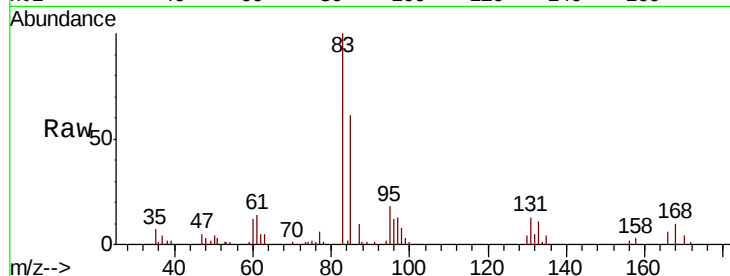
Tgt Ion: 83 Resp: 13397

Ion Ratio Lower Upper

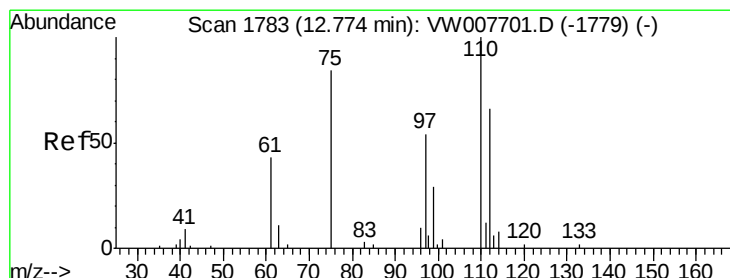
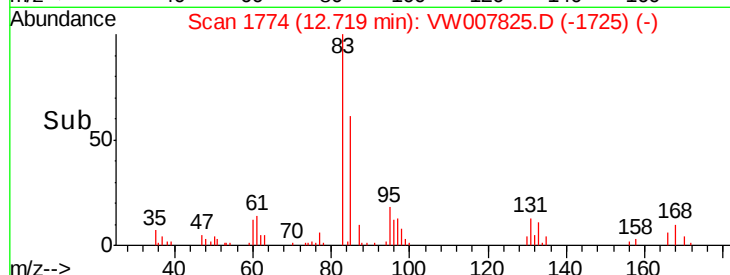
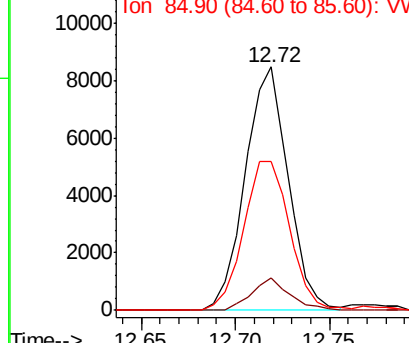
83 100

131 11.7 6.3 18.8

85 65.6 32.3 96.8



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: 47.749 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW007825.D

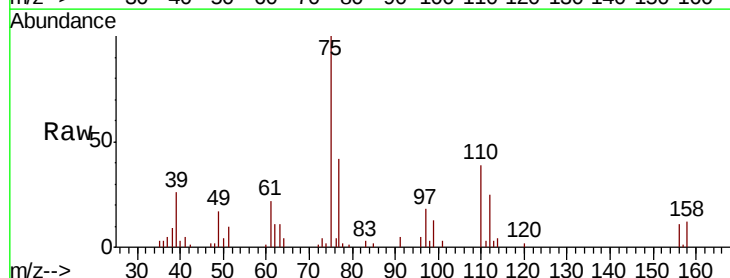
Acq: 22 Dec 2018 07:05

Tgt Ion: 75 Resp: 18197

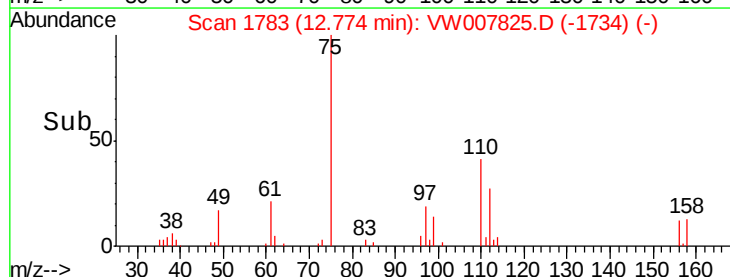
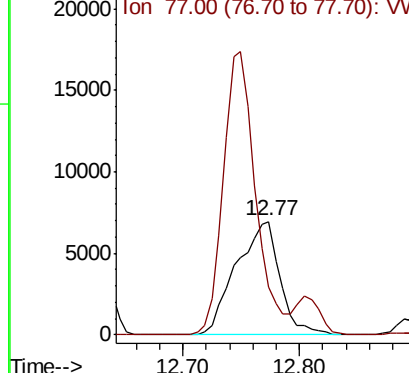
Ion Ratio Lower Upper

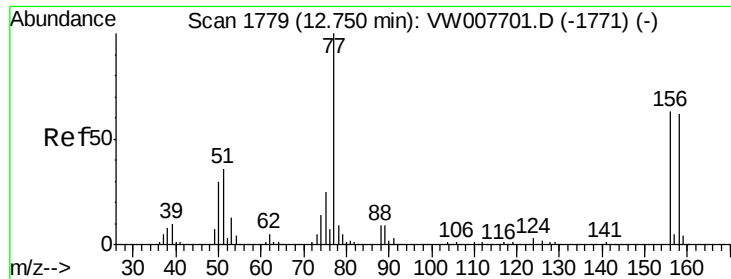
75 100

77 0.0 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: 21.086 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

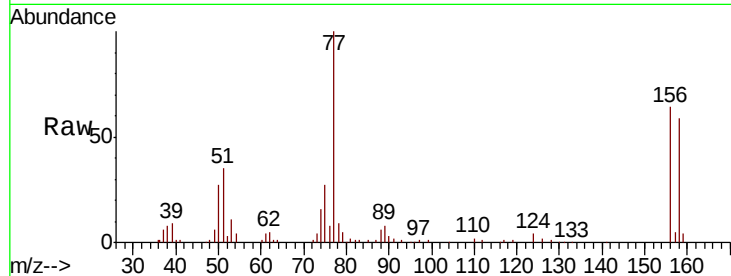
Tgt Ion:156 Resp: 18011

Ion Ratio Lower Upper

156 100

77 185.6 87.4 262.1

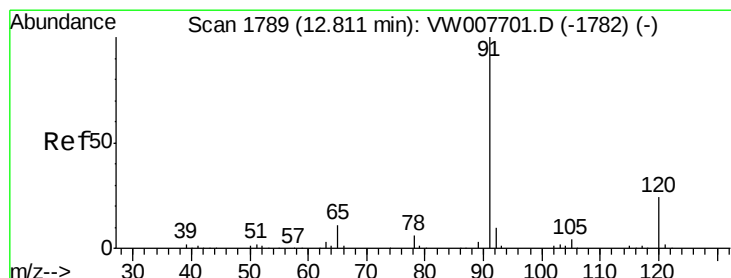
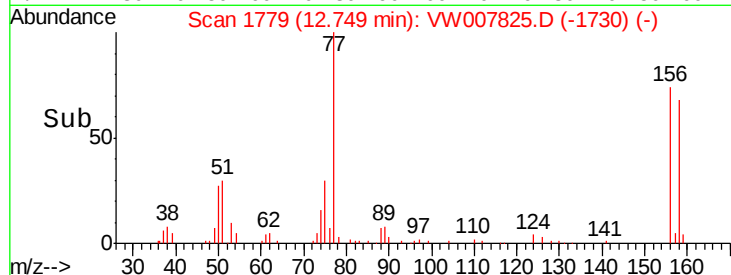
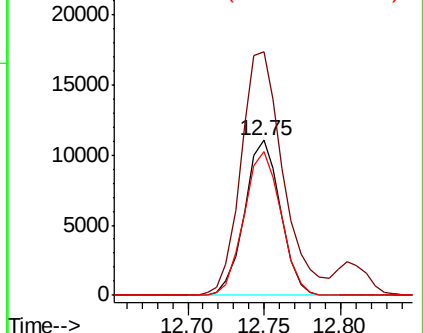
158 95.1 48.4 145.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.288 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007825.D

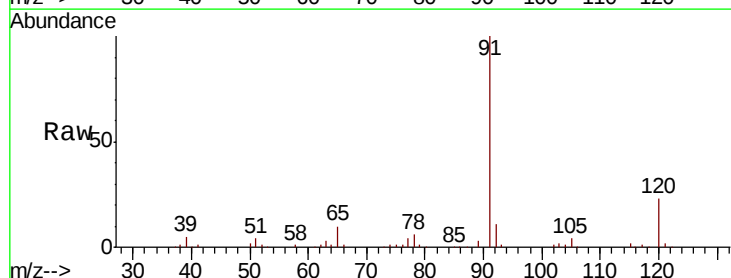
Acq: 22 Dec 2018 07:05

Tgt Ion: 91 Resp: 92357

Ion Ratio Lower Upper

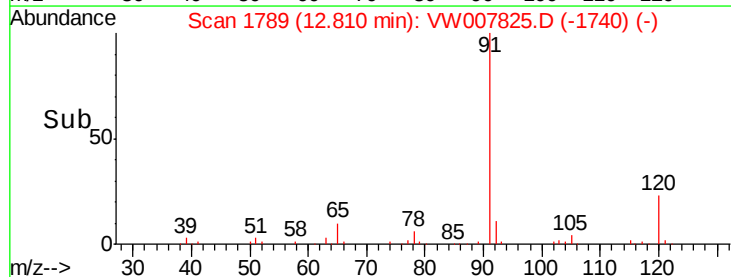
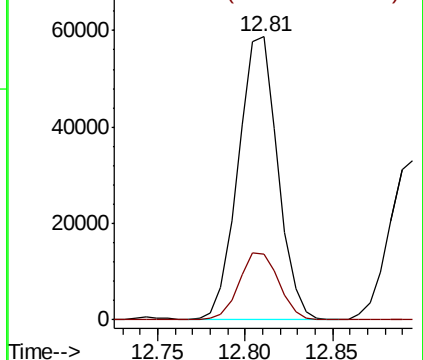
91 100

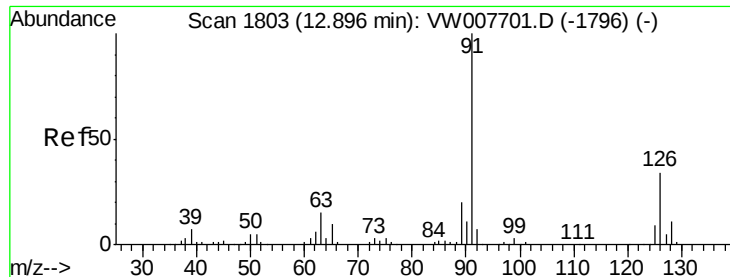
120 23.7 11.9 35.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

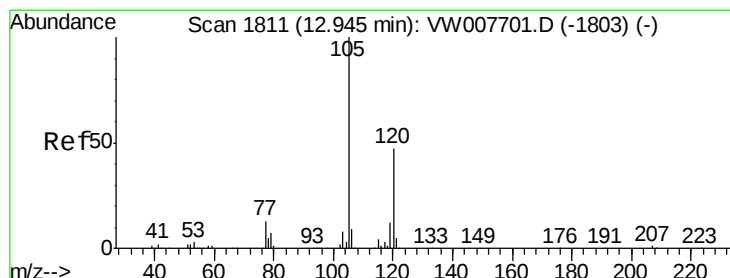
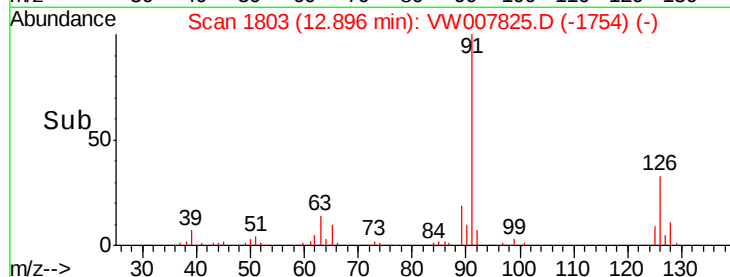
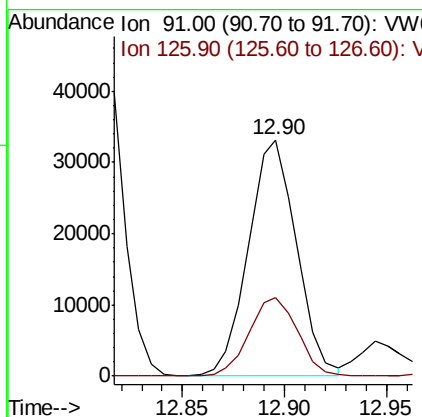
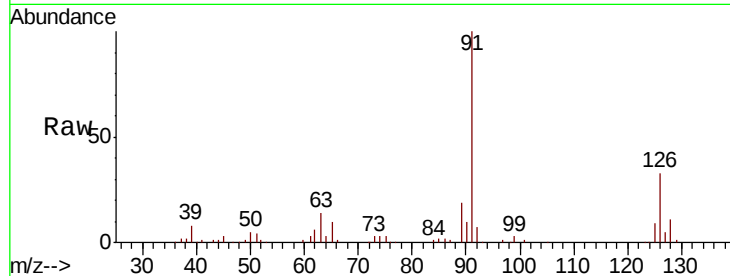




#79  
 2-Chlorotoluene  
 Concen: 21.560 ug/l  
 RT: 12.90 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

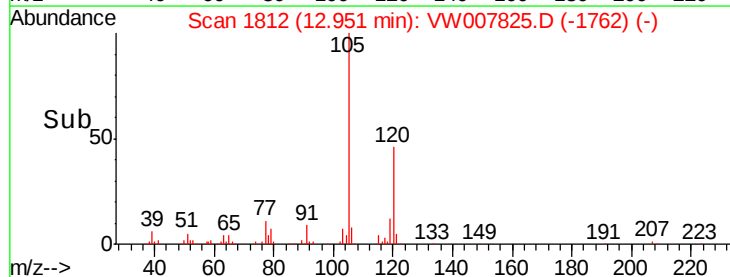
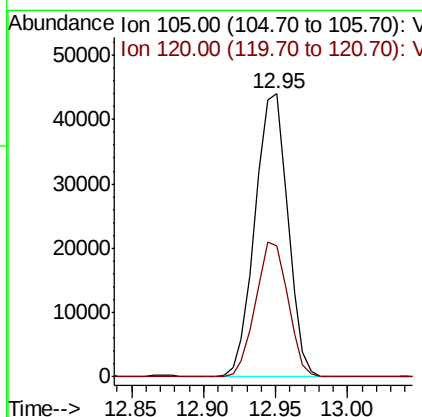
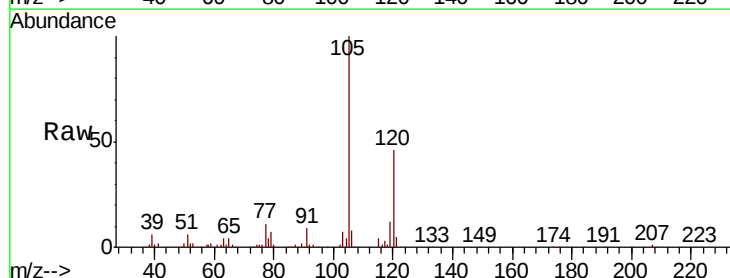
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

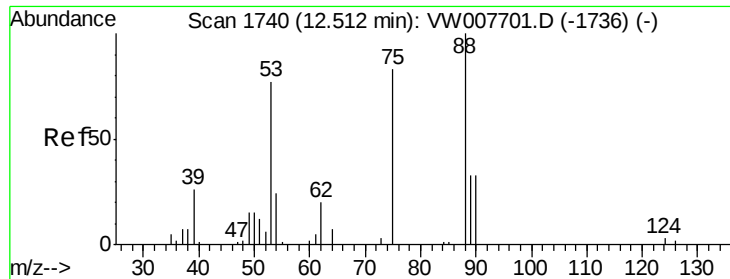
Tgt Ion: 91 Resp: 54490  
 Ion Ratio Lower Upper  
 91 100  
 126 33.5 17.0 51.0



#80  
 1,3,5-Trimethylbenzene  
 Concen: 21.602 ug/l  
 RT: 12.95 min Scan# 1812  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion: 105 Resp: 69446  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 23.6 70.8

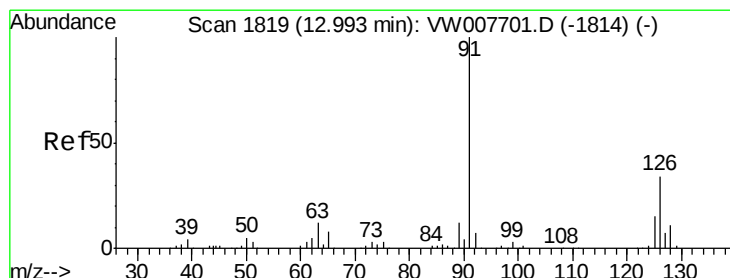
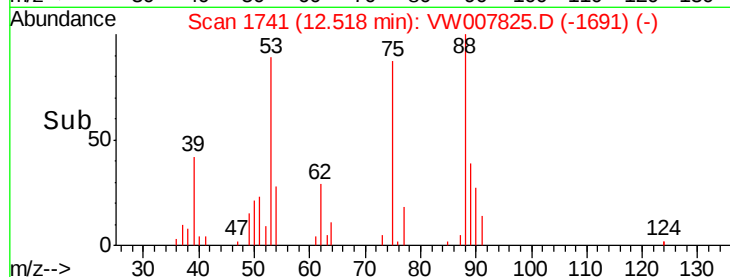
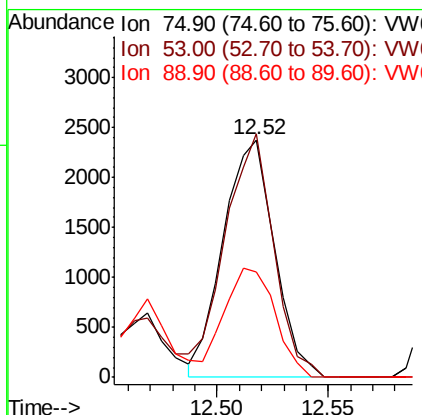
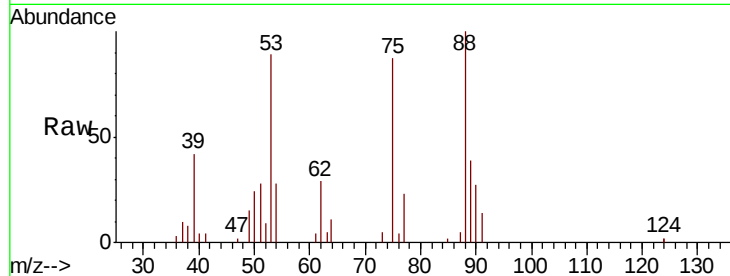




#81  
trans-1,4-Dichloro-2-butene  
Concen: 21.024 ug/l  
RT: 12.52 min Scan# 1741  
Delta R.T. 0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

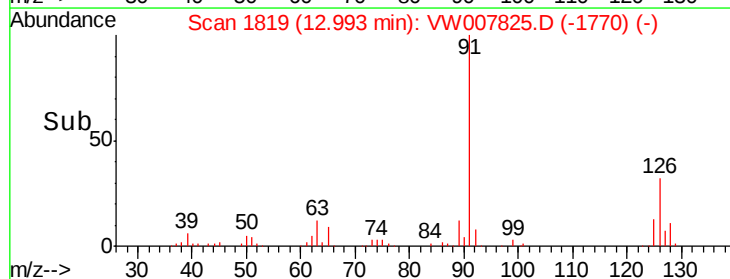
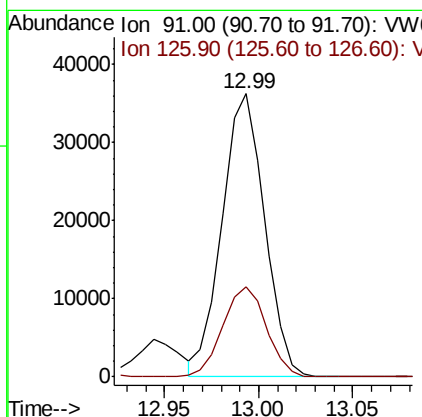
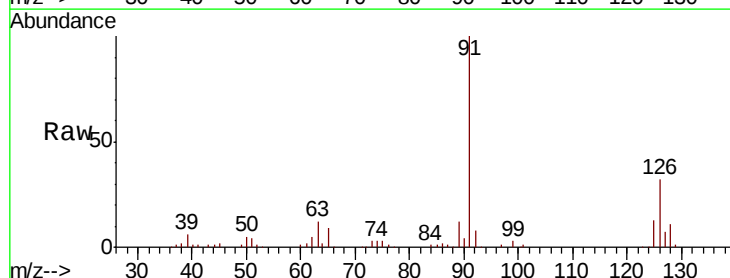
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

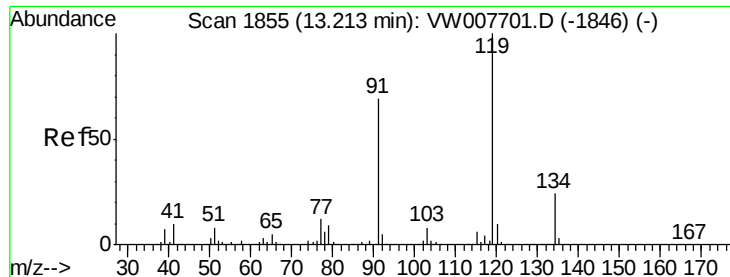
Tgt Ion: 75 Resp: 3817  
Ion Ratio Lower Upper  
75 100  
53 96.6 80.2 120.2  
89 45.2 39.2 58.8



#82  
4-Chlorotoluene  
Concen: 21.078 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion: 91 Resp: 56722  
Ion Ratio Lower Upper  
91 100  
126 32.7 16.5 49.5

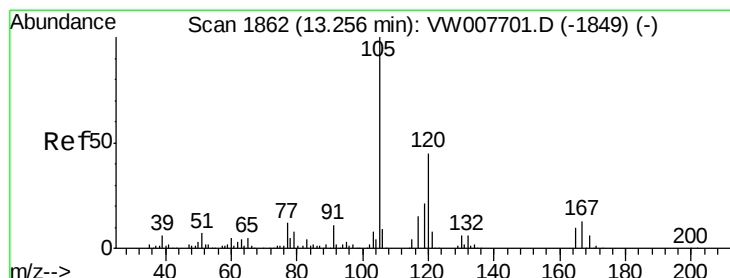
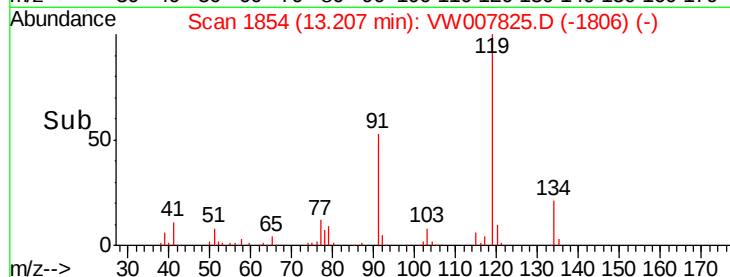
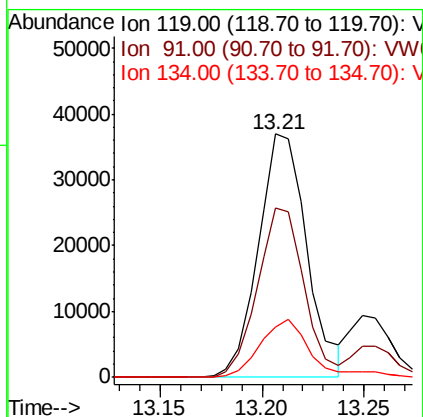
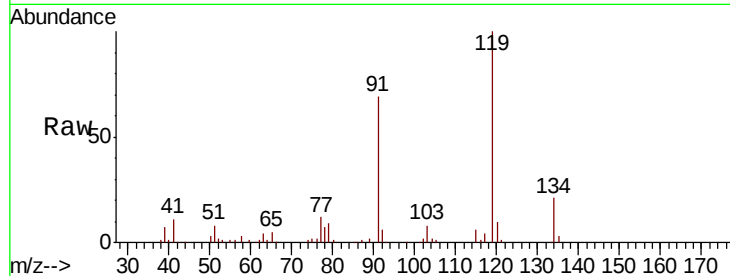




#83  
tert-Butylbenzene  
Concen: 21.765 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

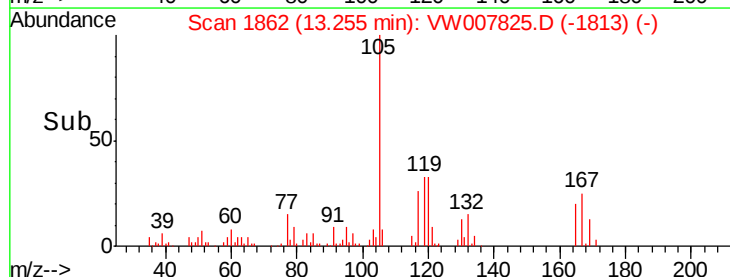
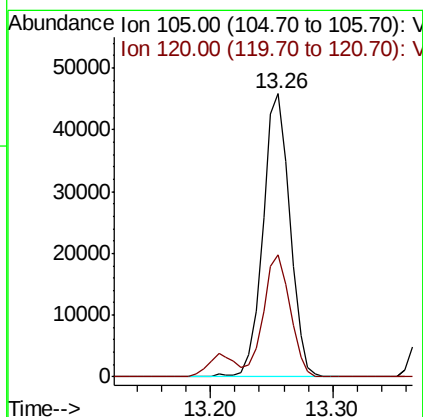
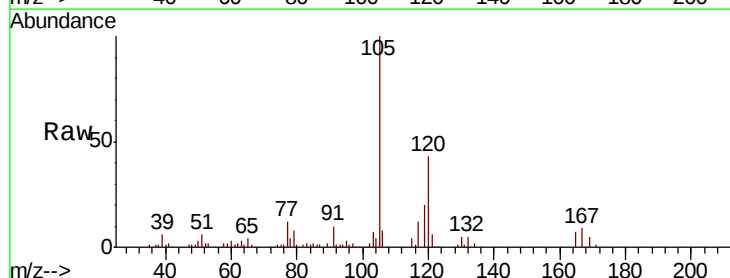
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

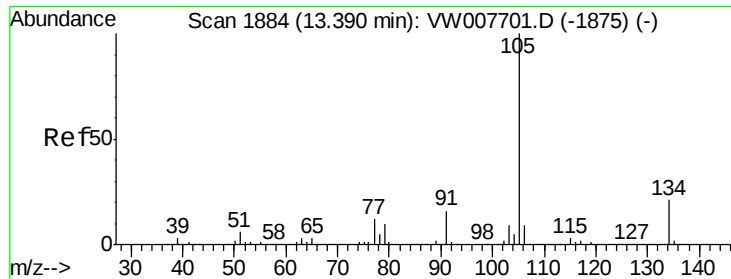
Tgt Ion:119 Resp: 61394  
Ion Ratio Lower Upper  
119 100  
91 66.6 34.2 102.5  
134 24.8 12.8 38.4



#84  
1,2,4-Trimethylbenzene  
Concen: 21.682 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:105 Resp: 70337  
Ion Ratio Lower Upper  
105 100  
120 43.0 22.0 66.0

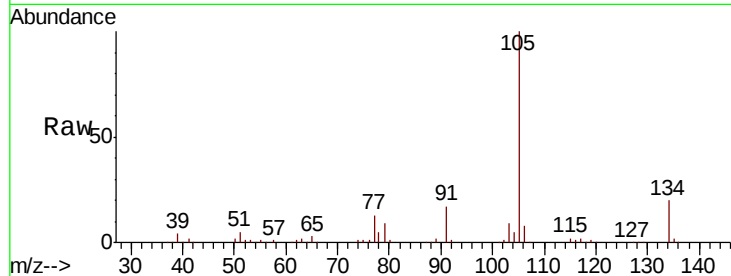




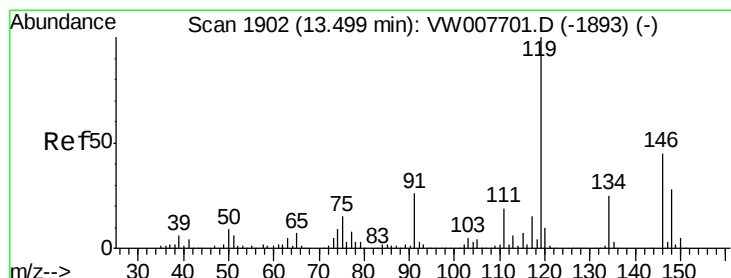
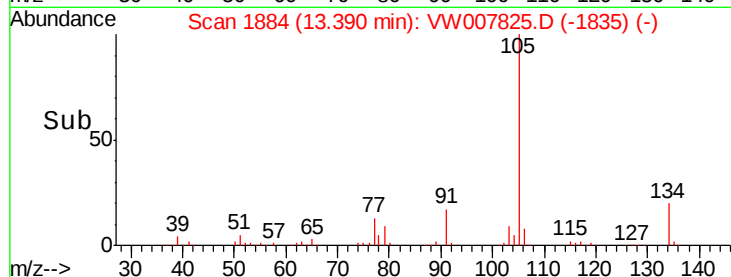
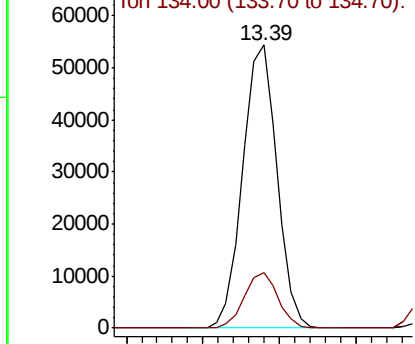
#85  
 sec-Butylbenzene  
 Concen: 21.776 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

Tgt Ion:105 Resp: 84654  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 10.2 30.4

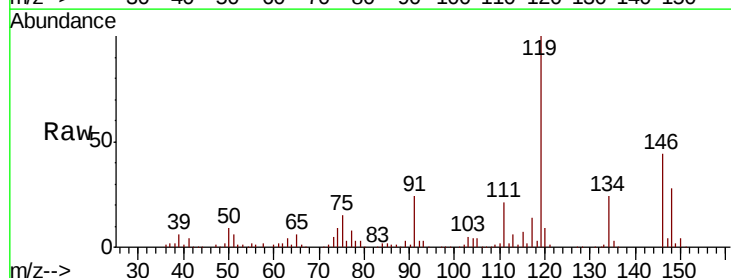


Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 134.00 (133.70 to 134.70): V

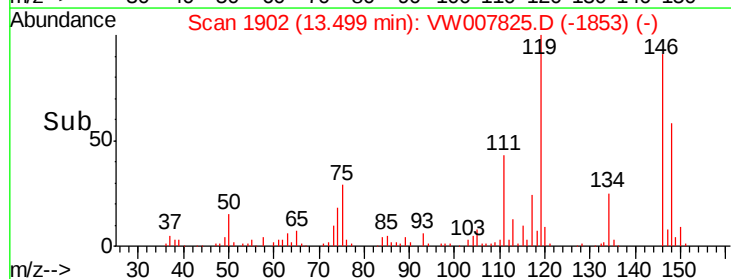
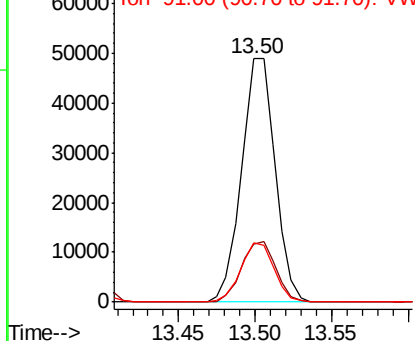


#86  
 p-Isopropyltoluene  
 Concen: 21.117 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion:119 Resp: 74648  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 13.0 39.0  
 91 24.3 12.8 38.4



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

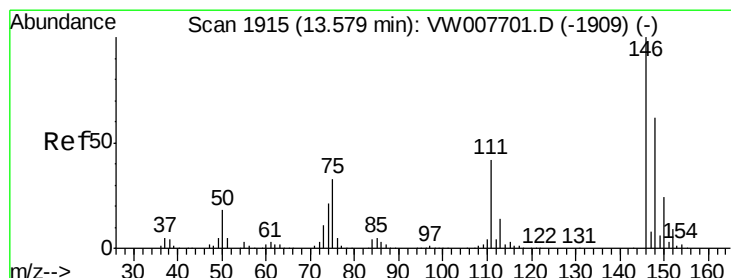
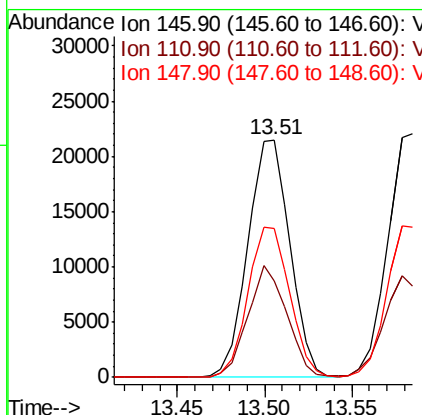
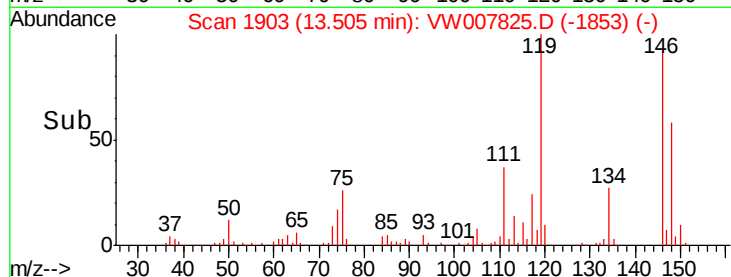
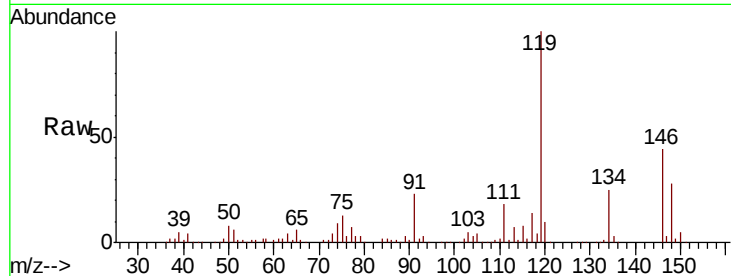




#87  
 1,3-Dichlorobenzene  
 Concen: 21.173 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

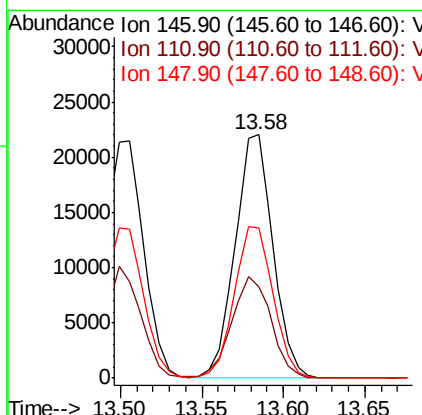
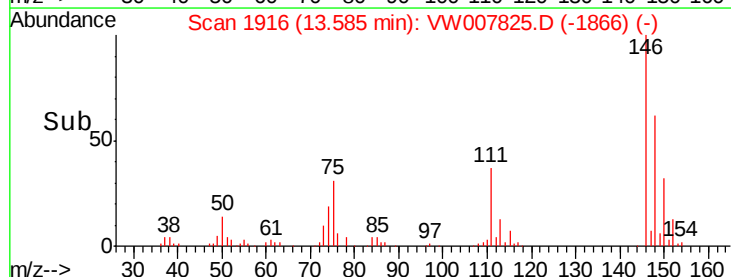
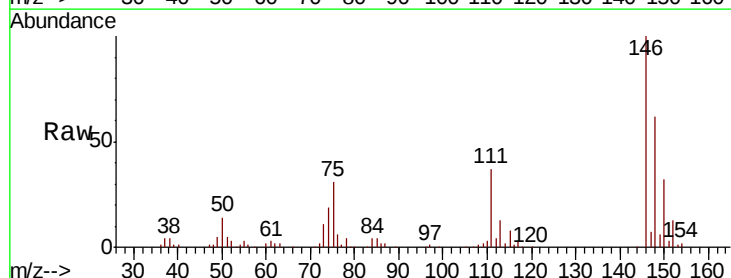
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

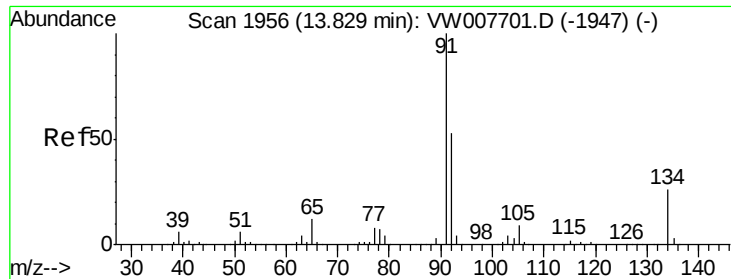
Tgt Ion:146 Resp: 35907  
 Ion Ratio Lower Upper  
 146 100  
 111 43.5 21.1 63.4  
 148 62.8 32.1 96.5



#88  
 1,4-Dichlorobenzene  
 Concen: 21.025 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. 0.01 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion:146 Resp: 35667  
 Ion Ratio Lower Upper  
 146 100  
 111 43.2 21.0 63.0  
 148 63.5 31.8 95.4





#89

n-Butylbenzene

Concen: 20.571 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

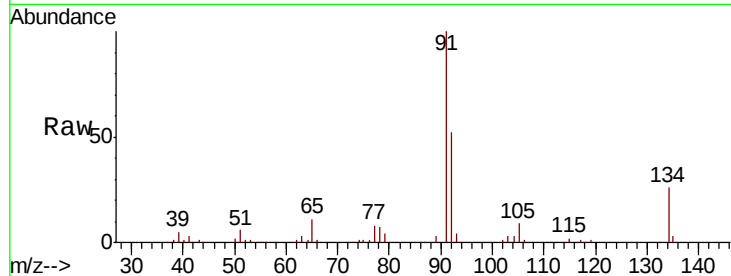
Tgt Ion: 91 Resp: 66674

Ion Ratio Lower Upper

91 100

92 53.4 26.4 79.2

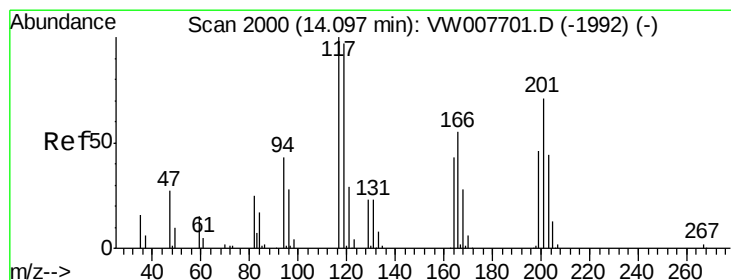
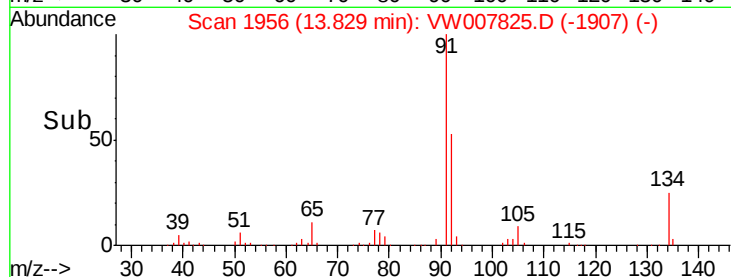
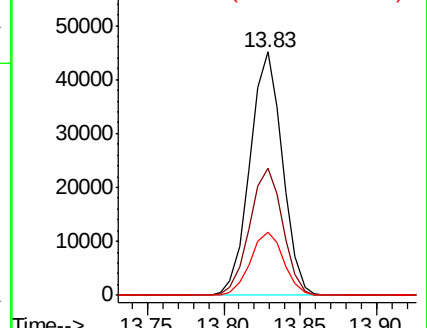
134 26.6 13.7 41.0



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: 17.695 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW007825.D

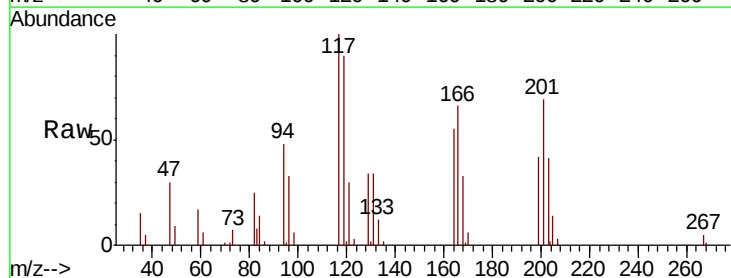
Acq: 22 Dec 2018 07:05

Tgt Ion: 117 Resp: 10982

Ion Ratio Lower Upper

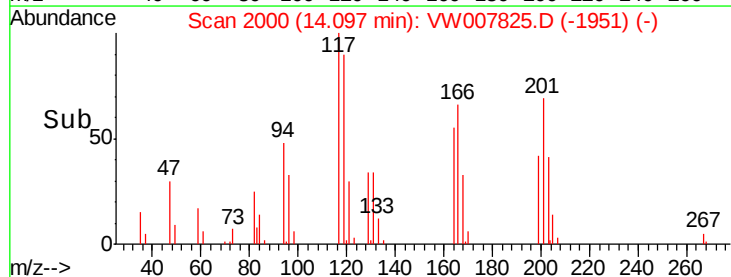
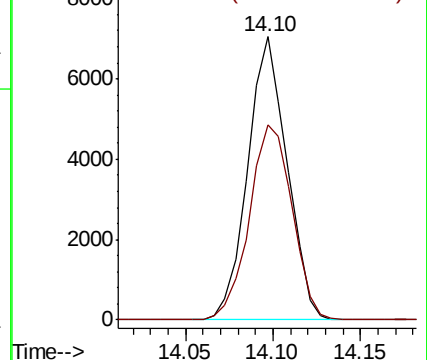
117 100

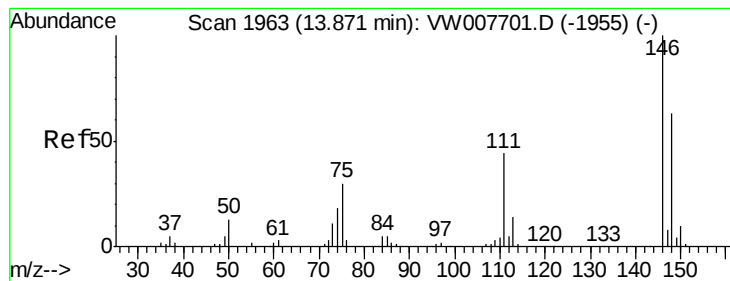
201 75.2 36.2 108.6



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.268 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

Instrument :

MSVOA\_W

ClientSampleId :

VW1223SBS02

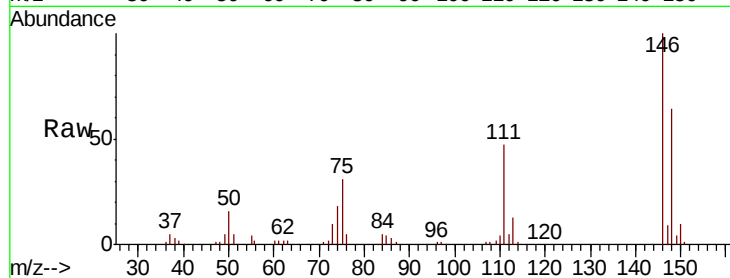
Tgt Ion:146 Resp: 32294

Ion Ratio Lower Upper

146 100

111 44.3 21.7 65.1

148 65.2 32.1 96.5

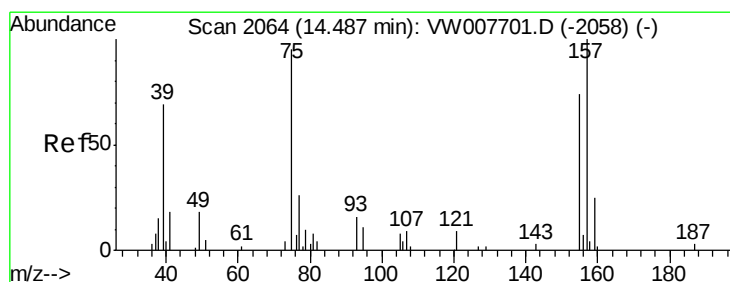
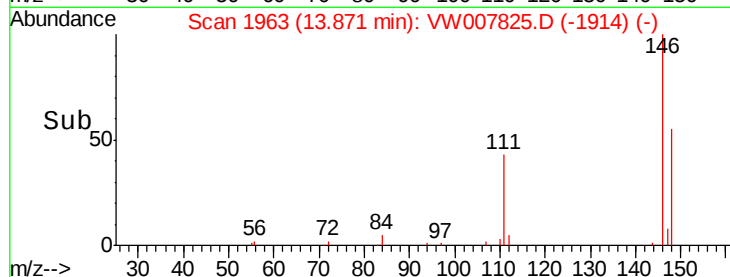
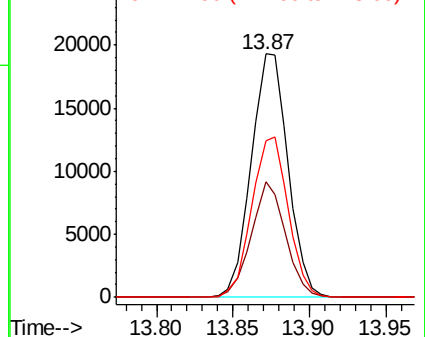


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.968 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW007825.D

Acq: 22 Dec 2018 07:05

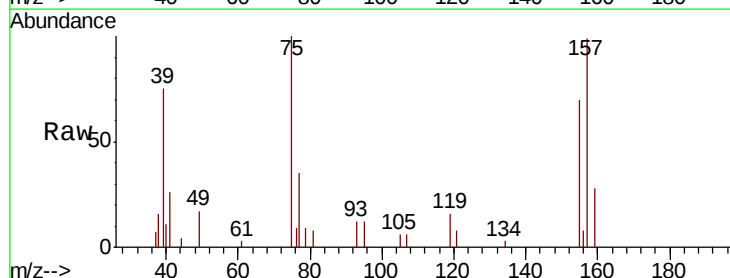
Tgt Ion: 75 Resp: 2521

Ion Ratio Lower Upper

75 100

155 84.4 39.4 118.1

157 110.3 52.0 156.0

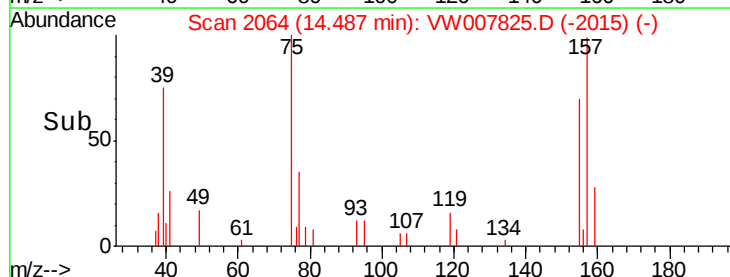
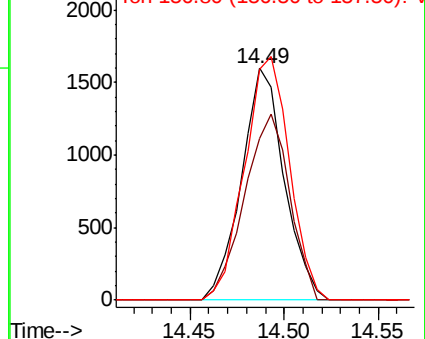


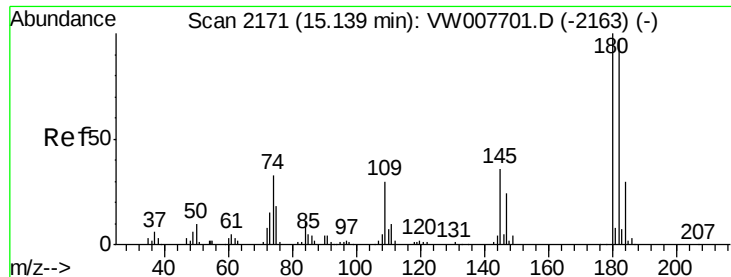
Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

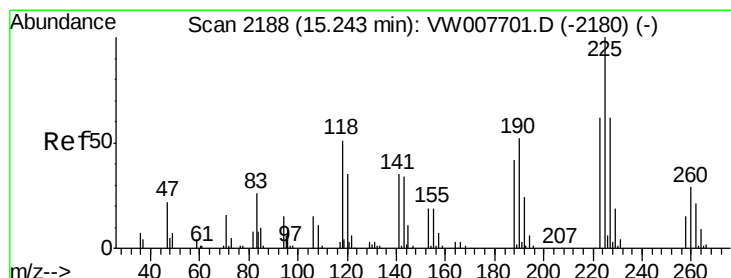
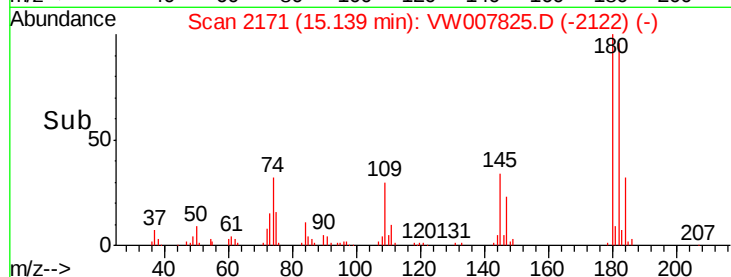
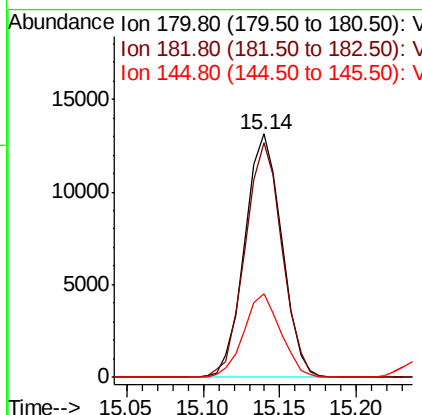
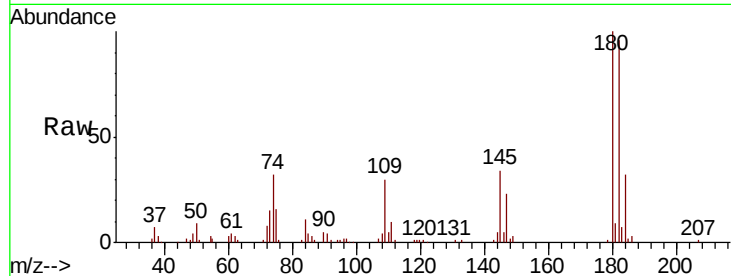




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.013 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

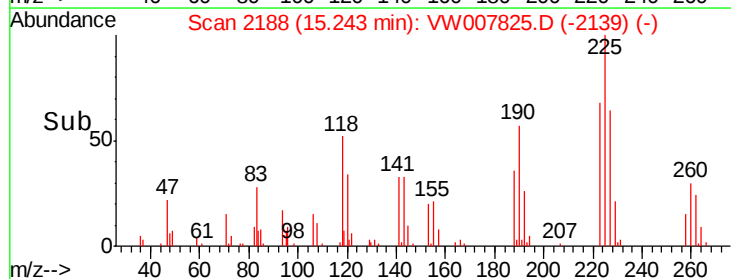
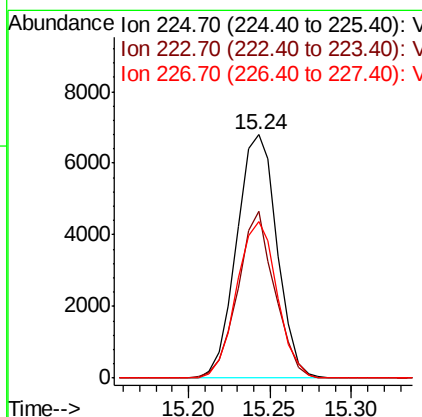
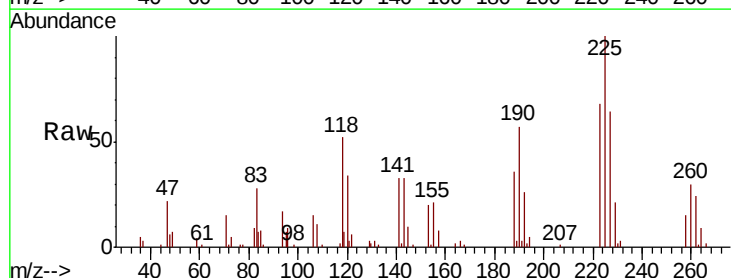
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1223SBS02

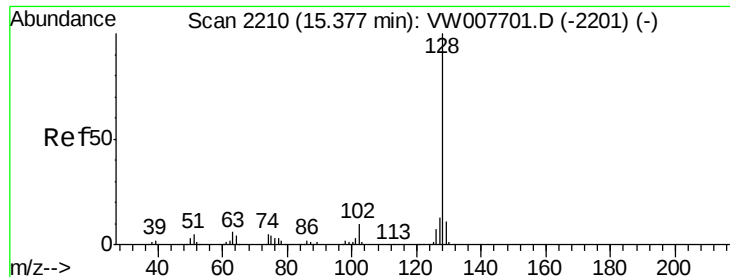
Tgt Ion:180 Resp: 22148  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 47.5 142.6  
 145 34.1 17.5 52.5



#94  
 Hexachlorobutadiene  
 Concen: 20.801 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: VW007825.D  
 Acq: 22 Dec 2018 07:05

Tgt Ion:225 Resp: 11717  
 Ion Ratio Lower Upper  
 225 100  
 223 62.5 31.6 94.8  
 227 64.2 32.1 96.3

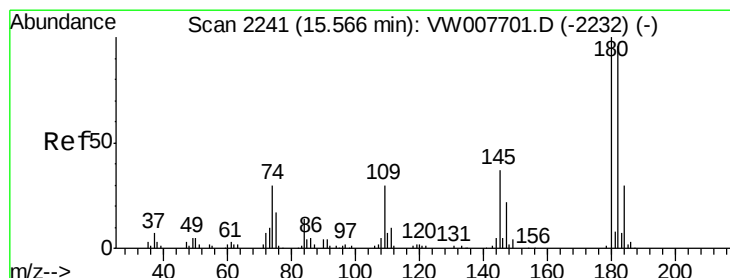
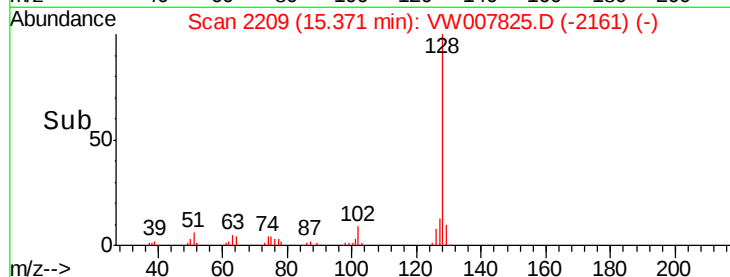
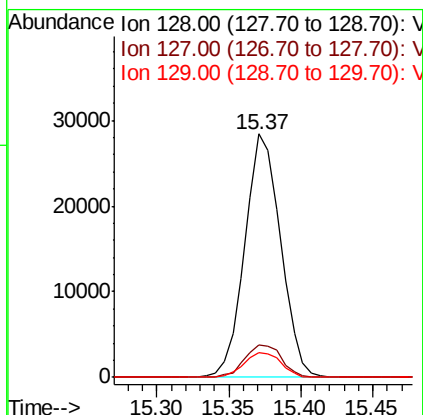
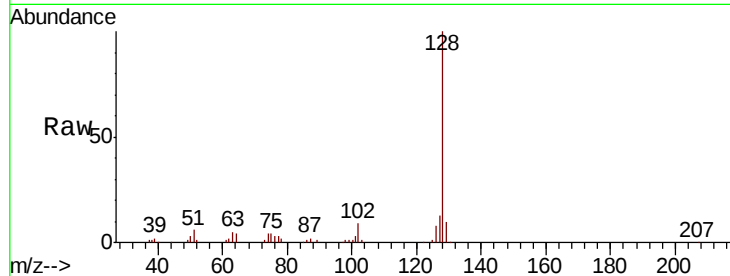




#95  
Naphthalene  
Concen: 25.054 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1223SBS02

Tgt Ion:128 Resp: 48821  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.7 16.1  
129 10.4 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 22.115 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.01 min  
Lab File: VW007825.D  
Acq: 22 Dec 2018 07:05

Tgt Ion:180 Resp: 19953  
Ion Ratio Lower Upper  
180 100  
182 95.5 47.4 142.2  
145 36.2 18.4 55.0

