

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW092618\  
 Data File : VW005682.D  
 Acq On : 27 Sep 2018 05:45  
 Operator : VA/AP  
 Sample : VW092618SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

Quant Time: Sep 27 07:53:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 235240   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 368201   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 347692   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 186868   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 138921   | 50.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.26% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 118663   | 51.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.50% |      |
| 50) Toluene-d8            | 10.33  | 98  | 484720   | 51.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.82% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 179579   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 28232  | 17.859  | ug/l | 98     |
| 3) Chloromethane              | 2.21 | 50  | 33686  | 17.814  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 49508  | 21.903  | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 30689  | 20.090  | ug/l | 94     |
| 6) Chloroethane               | 2.93 | 64  | 28576  | 19.702  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 29296  | 16.571  | ug/l | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 24573  | 21.278  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 45800  | 20.466  | ug/l | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 73524  | 21.363  | ug/l | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 15813  | 109.176 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 44596  | 20.815  | ug/l | 96     |
| 13) Acrolein                  | 3.89 | 56  | 10638  | 99.316  | ug/l | 100    |
| 14) Allyl chloride            | 4.67 | 41  | 77451  | 20.714  | ug/l | 97     |
| 15) Acrylonitrile             | 5.37 | 53  | 54228  | 105.762 | ug/l | 99     |
| 16) Acetone                   | 4.14 | 43  | 47339  | 103.113 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 137985 | 20.613  | ug/l | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 28183  | 21.457  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 70889  | 21.437  | ug/l | 95     |
| 20) Methylene Chloride        | 4.92 | 84  | 62942  | 24.961  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 49419  | 21.060  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 160383 | 22.096  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.26 | 43  | 434913 | 104.833 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 95706  | 21.342  | ug/l | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 71930  | 106.866 | ug/l | 93     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 57670  | 18.421  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 55492  | 21.440  | ug/l | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 39115  | 22.020  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 44868  | 106.702 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 97156  | 20.985  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 84084  | 19.571  | ug/l | 93     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 83182  | 20.338  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 75336  | 20.325  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 32113  | 20.588  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 76961  | 19.377  | ug/l | 96     |

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 Sample : VW092618SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

Quant Time: Sep 27 07:53:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 83134    | 19.010  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 219495   | 20.900  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 18285    | 20.600  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 67803    | 20.165  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 62653    | 20.430  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 53970    | 20.077  | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 50455    | 19.528  | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 25432    | 19.700  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 66316    | 19.123  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 28311    | 19.436  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 8078     | 393.583 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 161940   | 104.843 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 136126   | 20.774  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 68041    | 19.572  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 77577    | 19.917  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 38641    | 21.087  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 47220    | 20.875  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 68023    | 20.945  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 106190   | 103.558 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 108360   | 103.271 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 46833    | 21.152  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 36250    | 21.217  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 53021    | 21.486  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 152341   | 20.639  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 53031    | 19.963  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.74 | 91   | 264579   | 20.195  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 202135   | 40.837  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 94270    | 20.336  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 158734   | 20.347  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 28446    | 20.173  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 266318   | 20.551  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 59815    | 20.384  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 45798    | 21.277  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 61878    | 38.846  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 62506    | 20.580  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 324246   | 20.667  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 188497   | 20.766  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 235475   | 20.897  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13160    | 18.607  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 198251   | 20.671  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 195400   | 20.641  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 236496   | 20.798  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 280930   | 20.461  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 252697   | 20.534  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 128082   | 20.623  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 124259   | 20.117  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 232883   | 20.063  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 44975    | 20.164  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 115608   | 21.087  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8108     | 19.771  | ug/l   | 97       |

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Data File : VW005682.D  
Acq On : 27 Sep 2018 05:45  
Operator : VA/AP  
Sample : VW092618SBS02  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 33 Sample Multiplier: 1

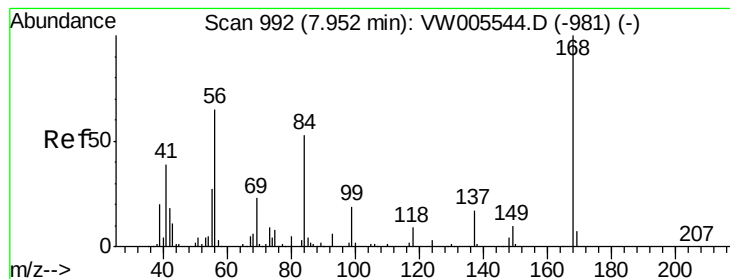
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

Quant Time: Sep 27 07:53:32 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 80846    | 20.672 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 49869    | 19.682 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 137128   | 20.845 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 72106    | 20.921 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

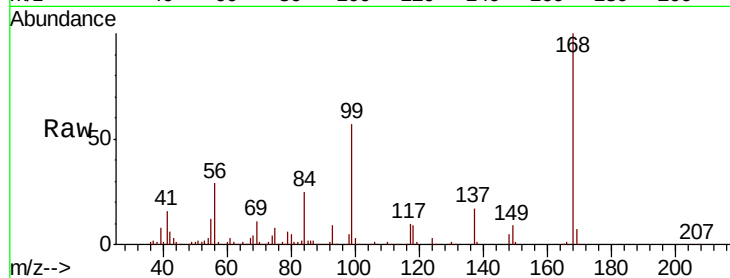
VW092618SBS02

Tgt Ion:168 Resp: 235240

Ion Ratio Lower Upper

168 100

99 57.2 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

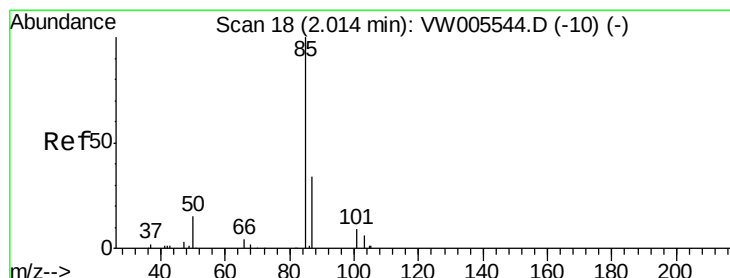
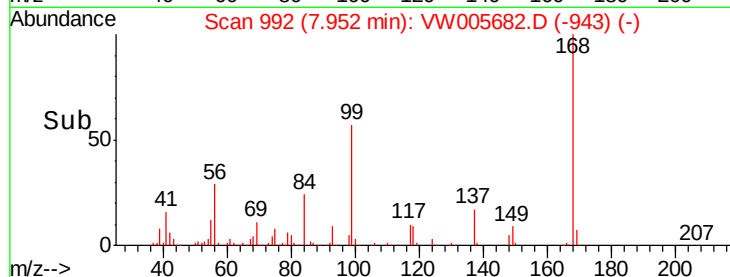
40000

20000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 17.859 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW005682.D

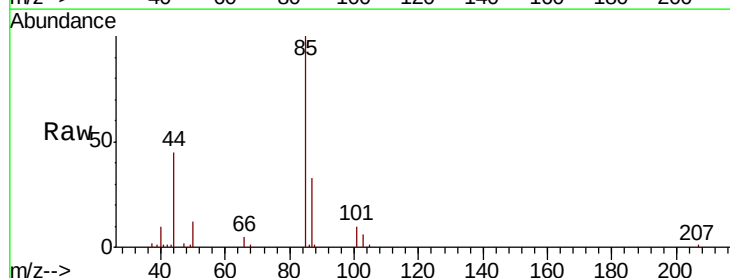
Acq: 27 Sep 2018 05:45

Tgt Ion: 85 Resp: 28232

Ion Ratio Lower Upper

85 100

87 32.6 17.0 50.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

8000

6000

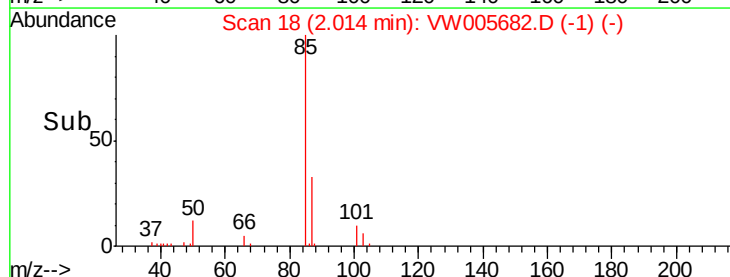
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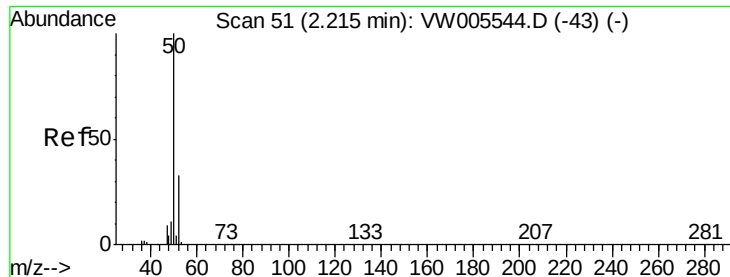
2000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 17.814 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

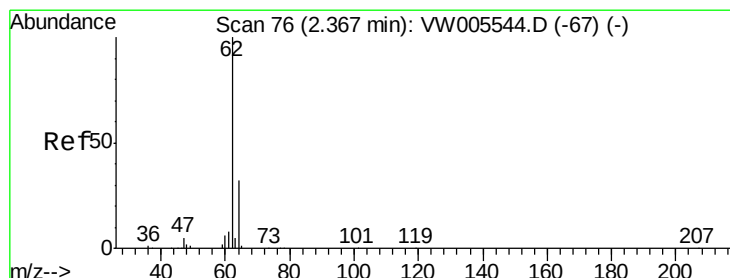
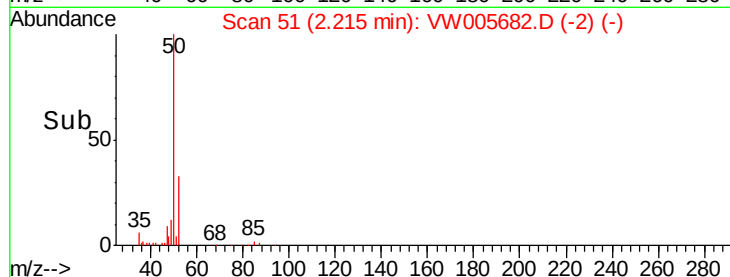
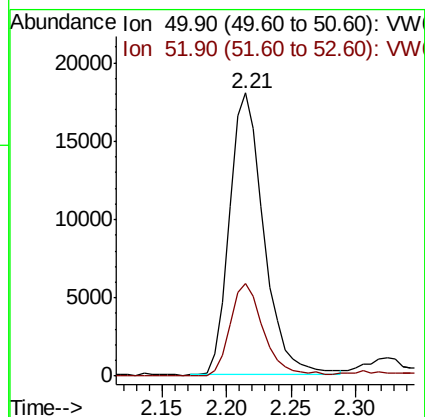
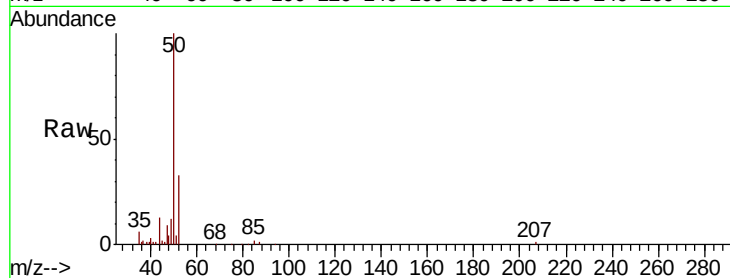
VW092618SBS02

Tgt Ion: 50 Resp: 33686

Ion Ratio Lower Upper

50 100

52 33.0 26.2 39.4



#4

Vinyl Chloride

Concen: 21.903 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW005682.D

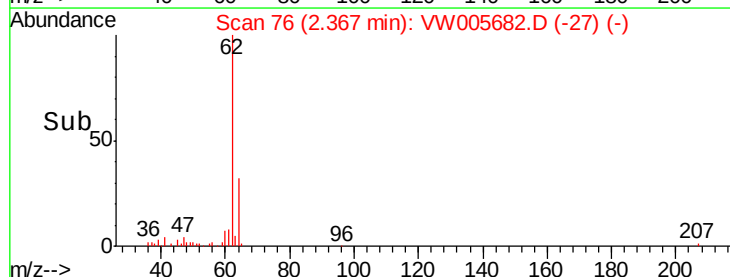
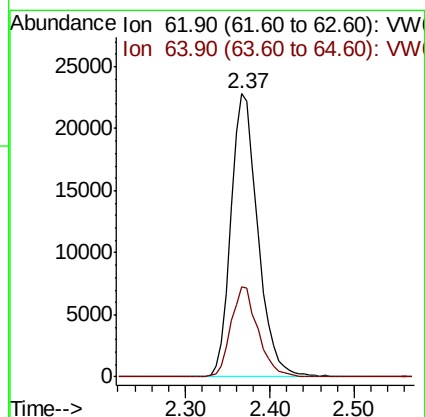
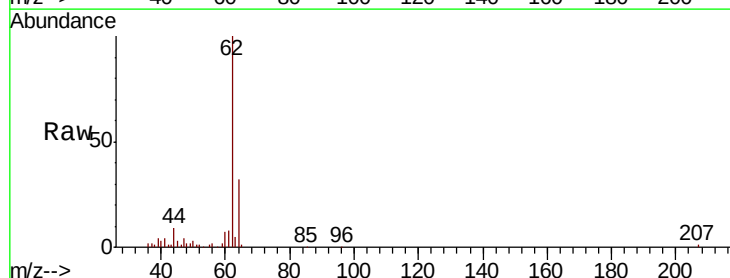
Acq: 27 Sep 2018 05:45

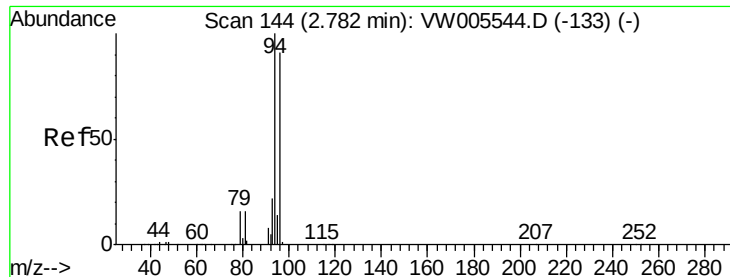
Tgt Ion: 62 Resp: 49508

Ion Ratio Lower Upper

62 100

64 31.7 25.7 38.5





#5

Bromomethane

Concen: 20.090 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

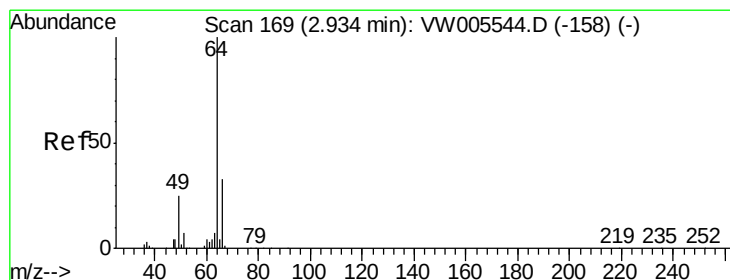
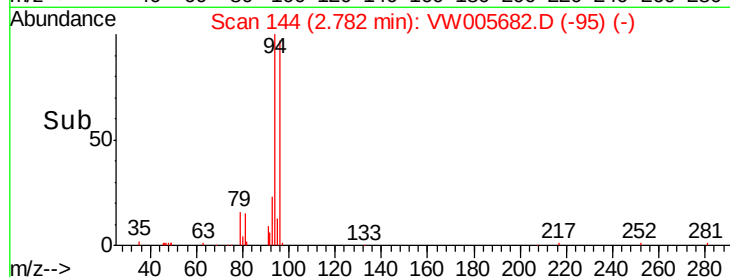
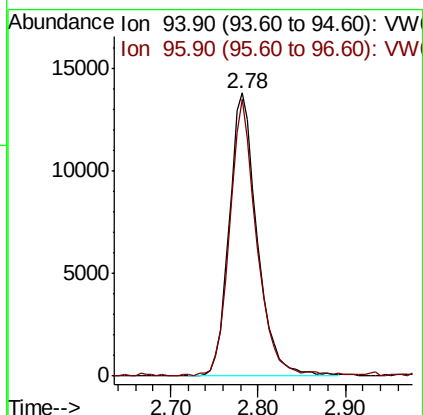
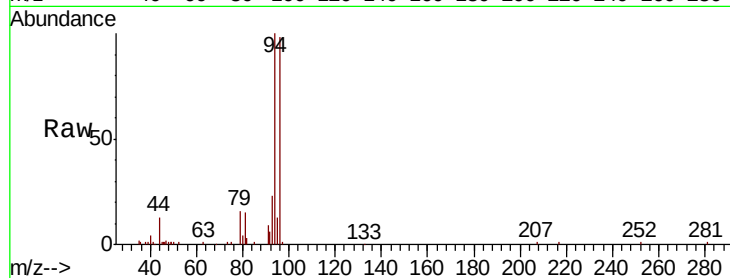
VW092618SBS02

Tgt Ion: 94 Resp: 30689

Ion Ratio Lower Upper

94 100

96 97.4 73.1 109.7



#6

Chloroethane

Concen: 19.702 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW005682.D

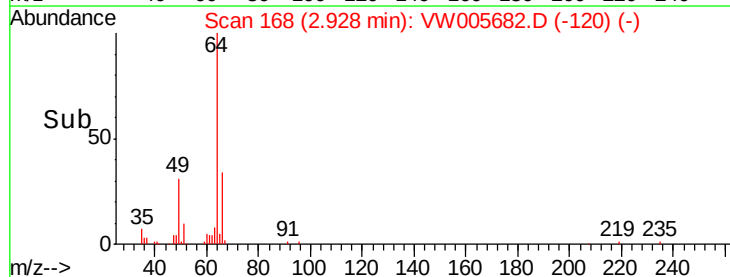
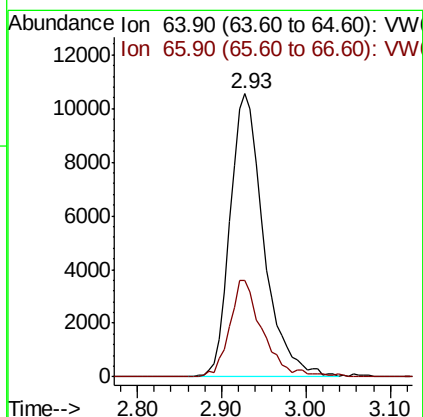
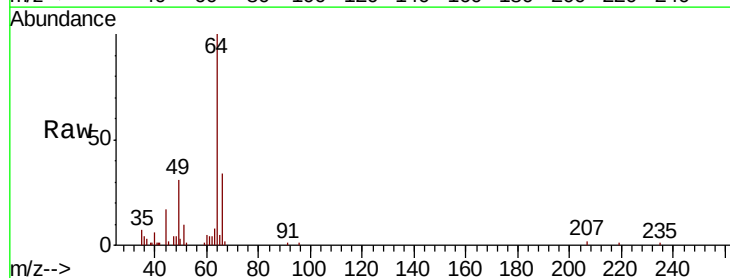
Acq: 27 Sep 2018 05:45

Tgt Ion: 64 Resp: 28576

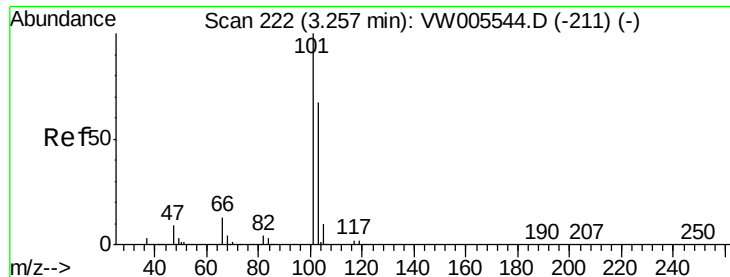
Ion Ratio Lower Upper

64 100

66 34.2 26.0 39.0





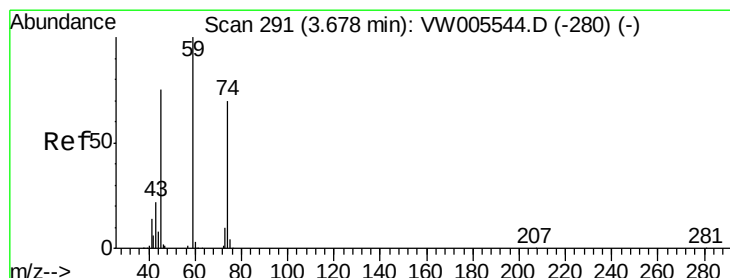
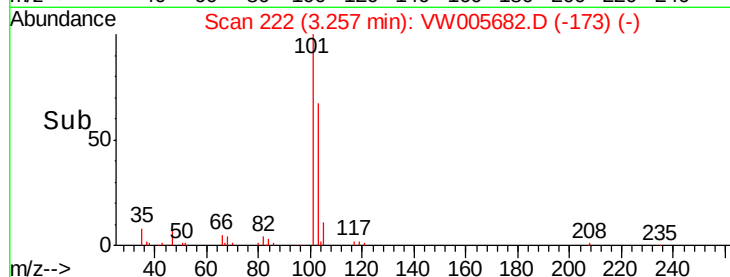
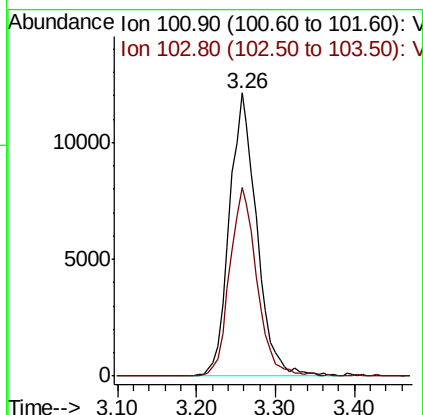
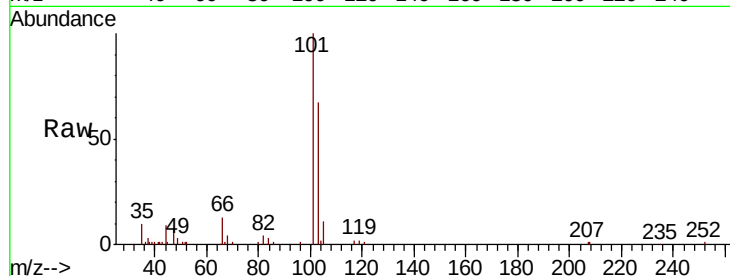


#7

Trichlorofluoromethane  
 Concen: 16.571 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

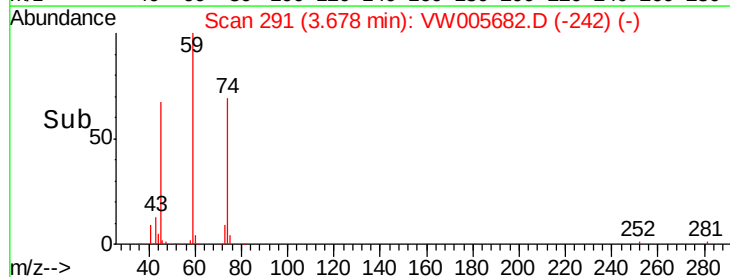
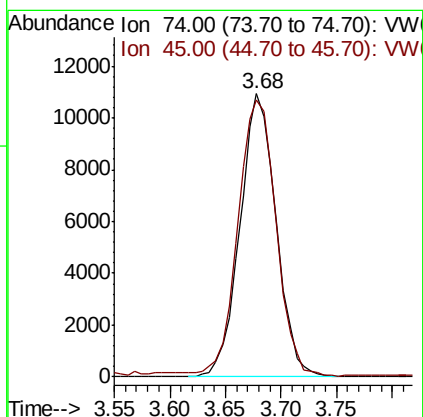
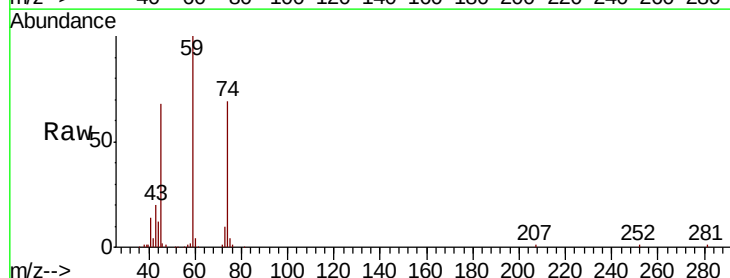
Tgt Ion:101 Resp: 29296  
 Ion Ratio Lower Upper  
 101 100  
 103 66.7 53.2 79.8



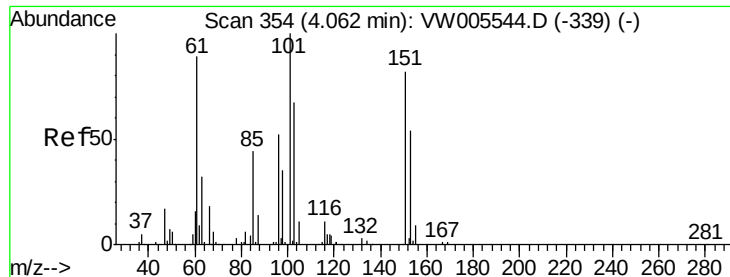
#8

Diethyl Ether  
 Concen: 21.278 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 74 Resp: 24573  
 Ion Ratio Lower Upper  
 74 100  
 45 105.7 51.7 155.2







#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.466 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

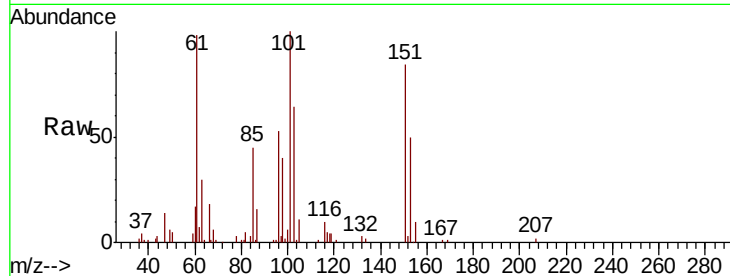
Tgt Ion:101 Resp: 45800

Ion Ratio Lower Upper

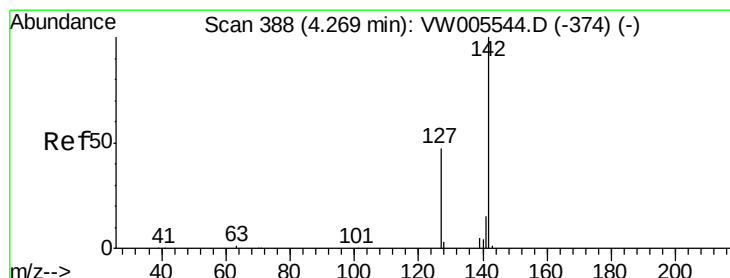
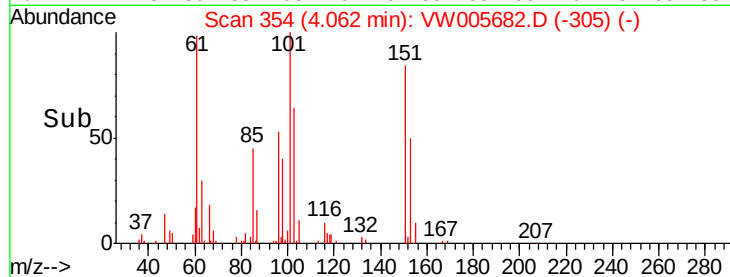
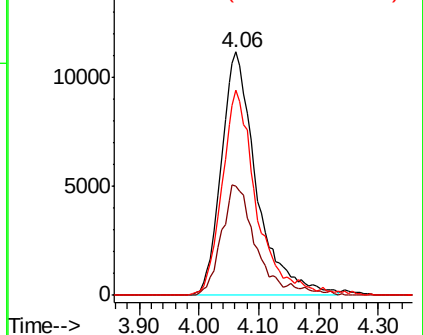
101 100

85 42.5 36.4 54.6

151 81.3 65.8 98.6



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: 21.363 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

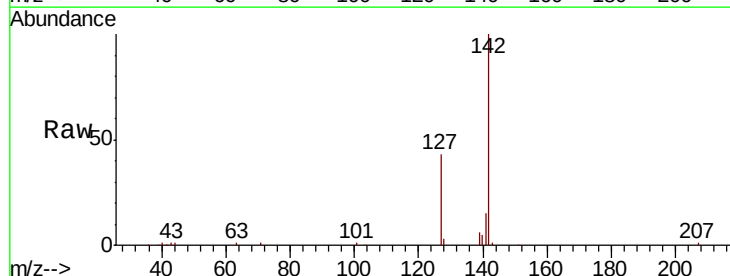
Tgt Ion:142 Resp: 73524

Ion Ratio Lower Upper

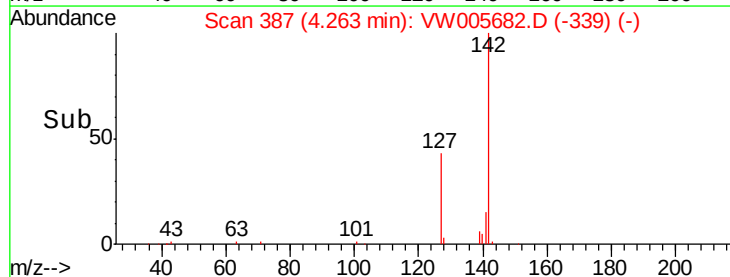
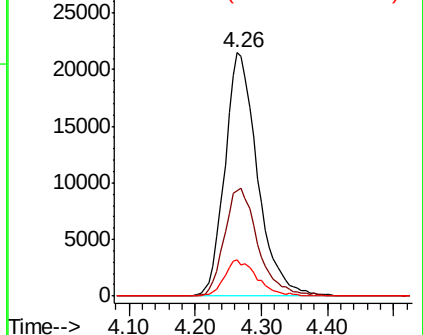
142 100

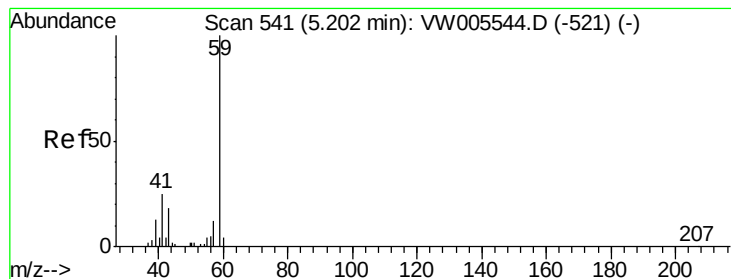
127 45.1 37.4 56.0

141 14.9 11.9 17.9



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: 109.176 ug/l

RT: 5.21 min Scan# 542

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

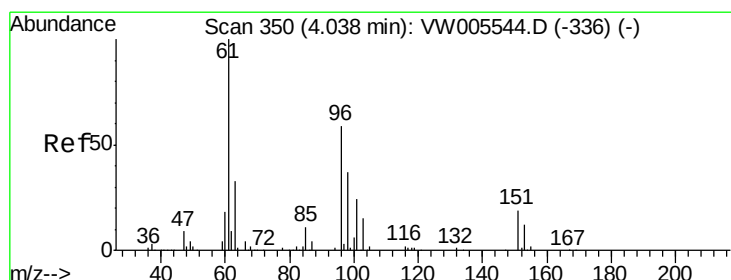
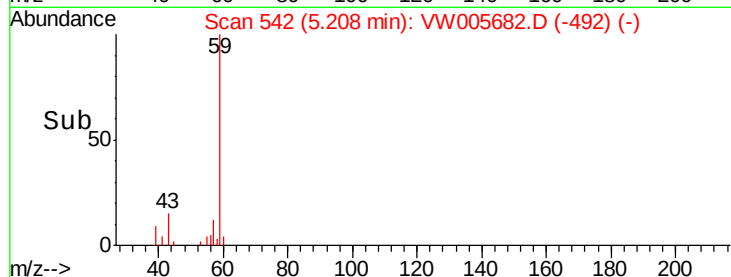
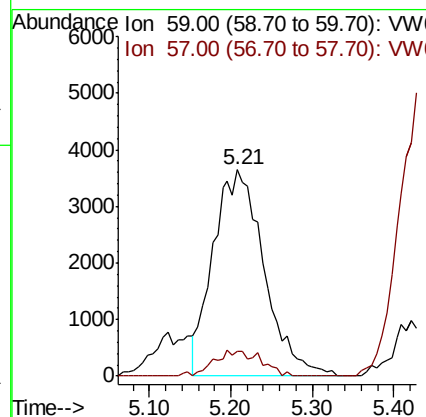
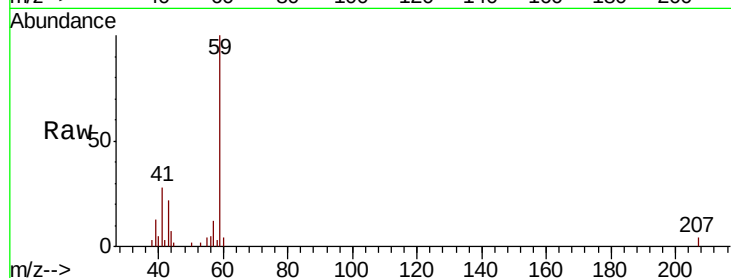
VW092618SBS02

Tgt Ion: 59 Resp: 15813

Ion Ratio Lower Upper

59 100

57 11.1 8.3 12.5



#12

1,1-Dichloroethene

Concen: 20.815 ug/l

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

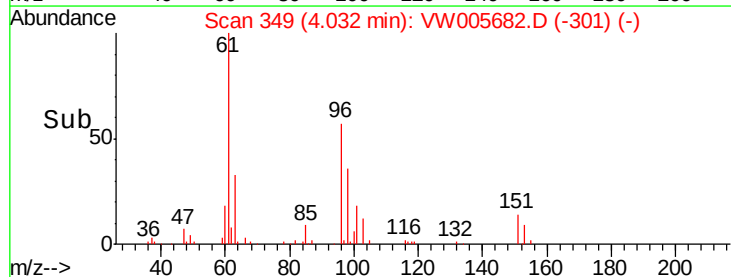
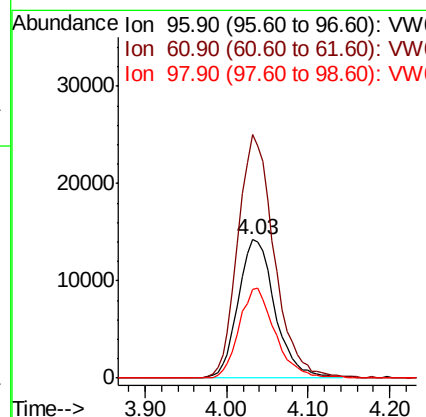
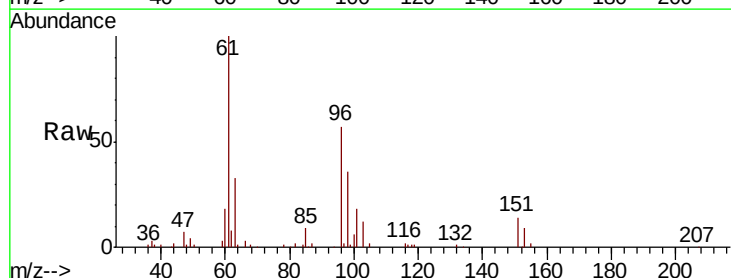
Tgt Ion: 96 Resp: 44596

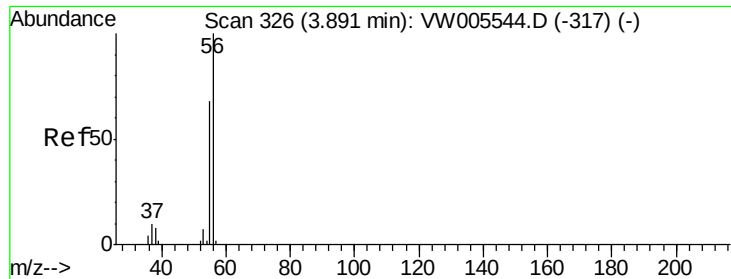
Ion Ratio Lower Upper

96 100

61 176.1 135.0 202.6

98 63.8 50.6 76.0





#13

Acrolein

Concen: 99.316 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

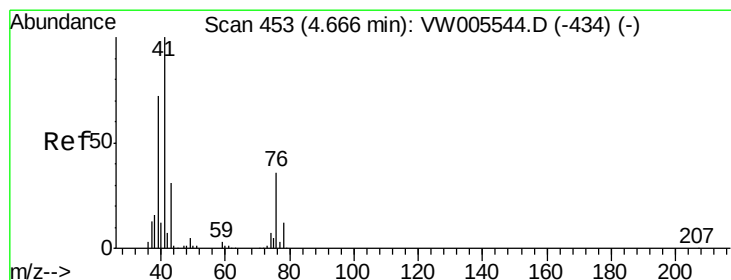
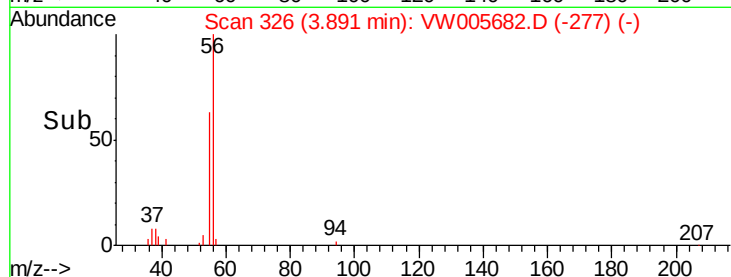
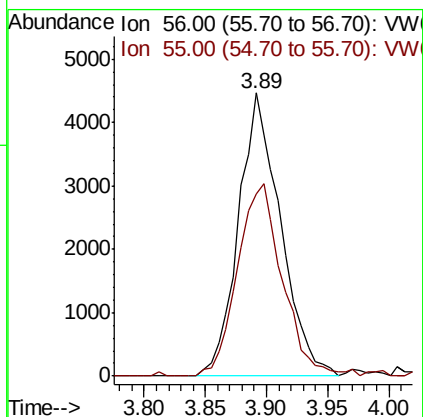
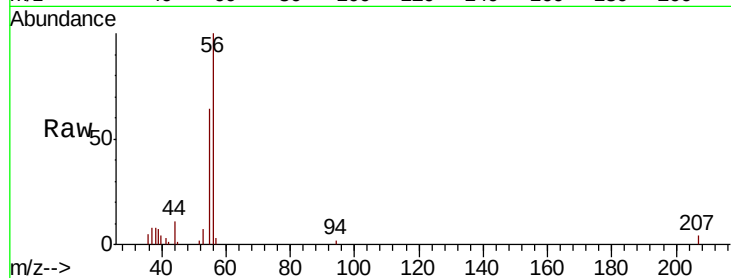
VW092618SBS02

Tgt Ion: 56 Resp: 10638

Ion Ratio Lower Upper

56 100

55 72.6 57.8 86.8



#14

Allyl chloride

Concen: 20.714 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

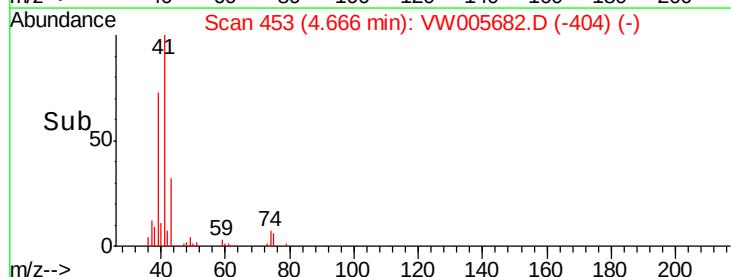
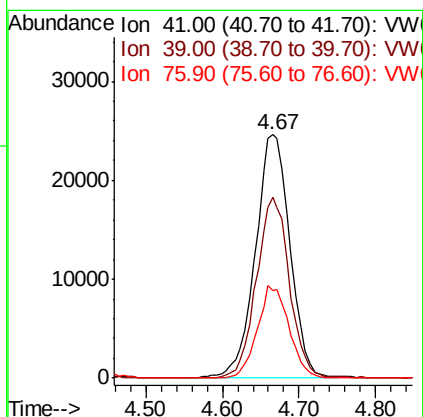
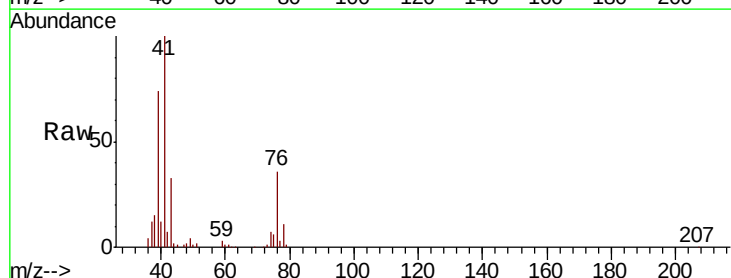
Tgt Ion: 41 Resp: 77451

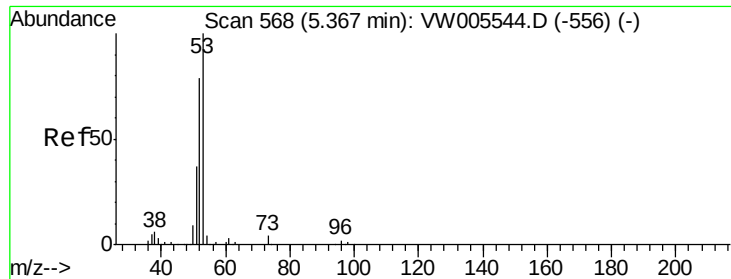
Ion Ratio Lower Upper

41 100

39 71.1 59.6 89.4

76 34.8 27.7 41.5





#15

Acrylonitrile

Concen: 105.762 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

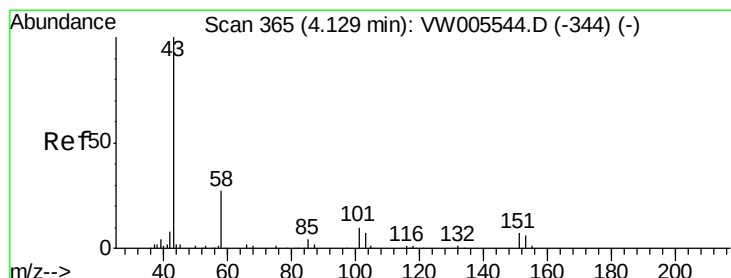
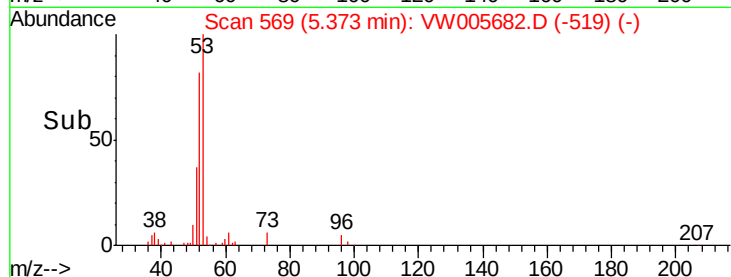
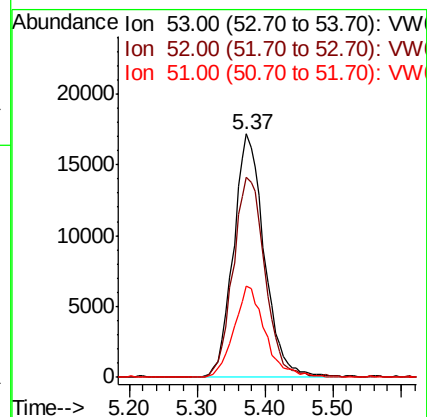
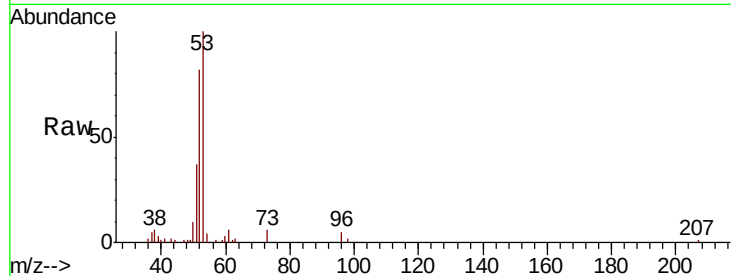
Tgt Ion: 53 Resp: 54228

Ion Ratio Lower Upper

53 100

52 84.4 66.5 99.7

51 37.6 30.6 46.0



#16

Acetone

Concen: 103.113 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW005682.D

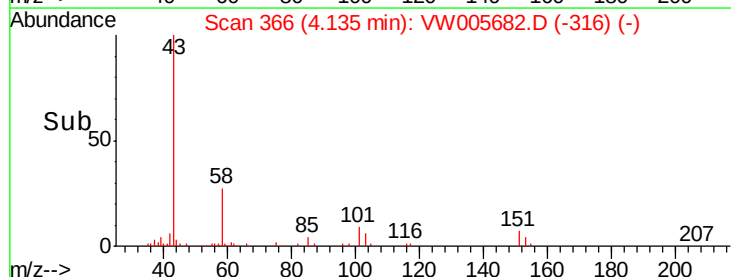
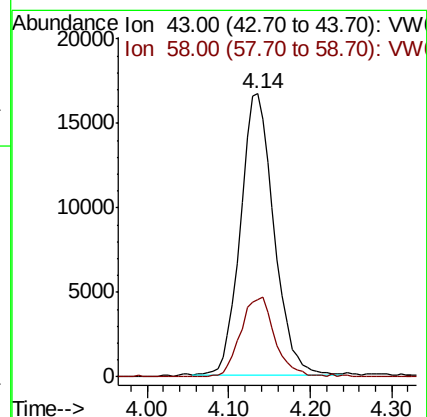
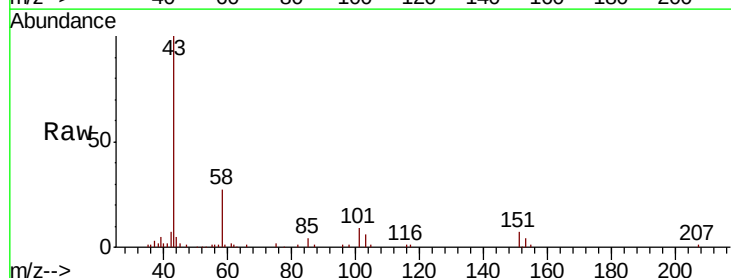
Acq: 27 Sep 2018 05:45

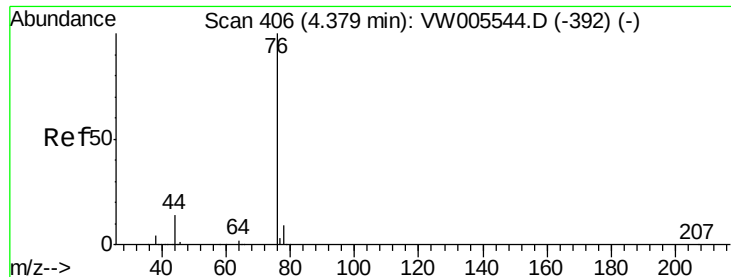
Tgt Ion: 43 Resp: 47339

Ion Ratio Lower Upper

43 100

58 27.3 21.8 32.8





#17

Carbon Disulfide

Concen: 20.613 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

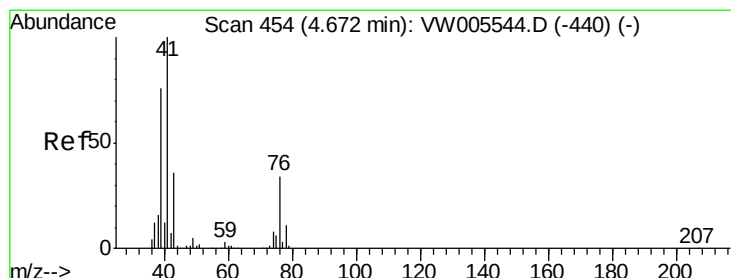
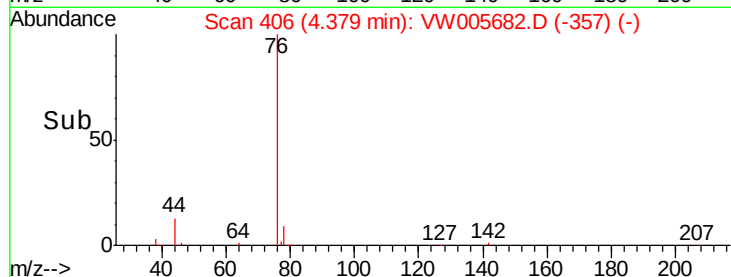
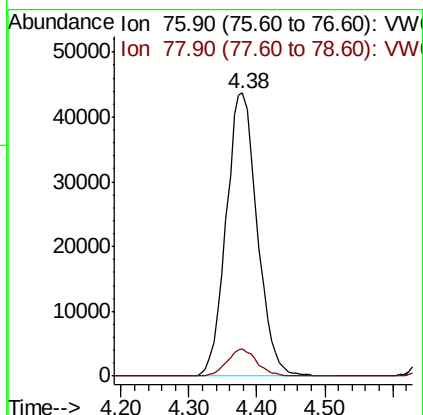
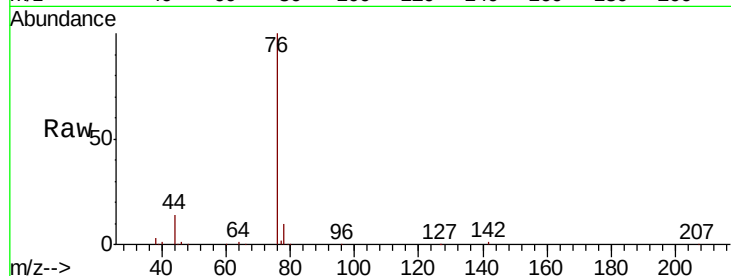
VW092618SBS02

Tgt Ion: 76 Resp: 137985

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.0



#18

Methyl Acetate

Concen: 21.457 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW005682.D

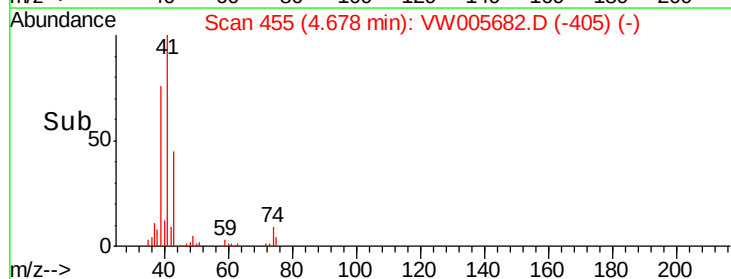
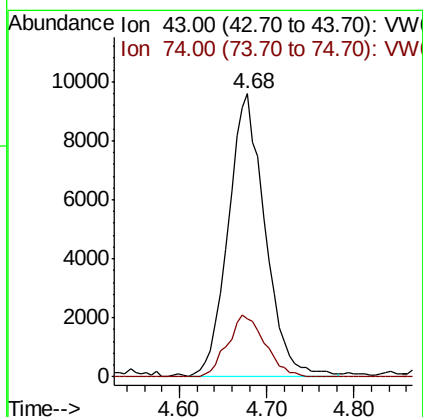
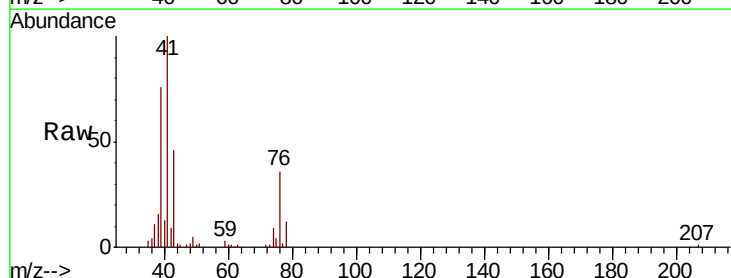
Acq: 27 Sep 2018 05:45

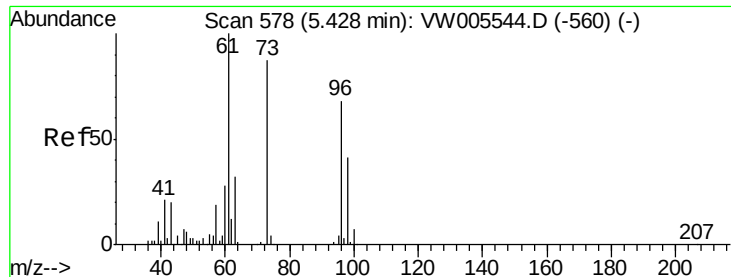
Tgt Ion: 43 Resp: 28183

Ion Ratio Lower Upper

43 100

74 22.1 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 21.437 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

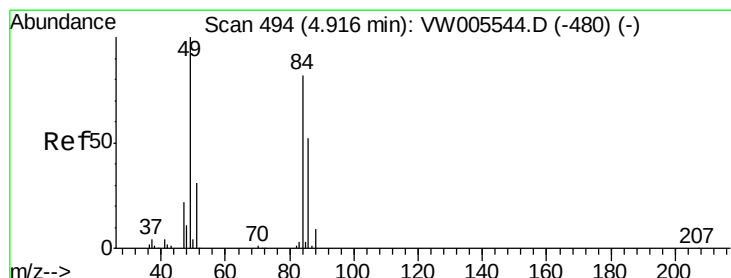
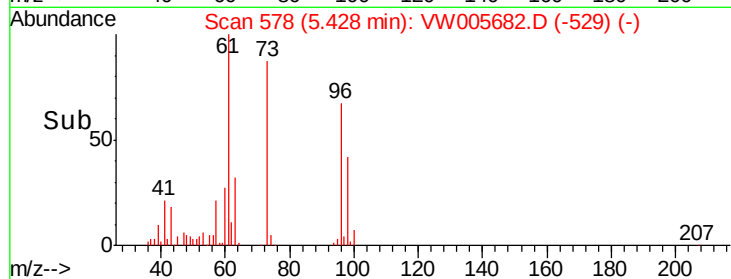
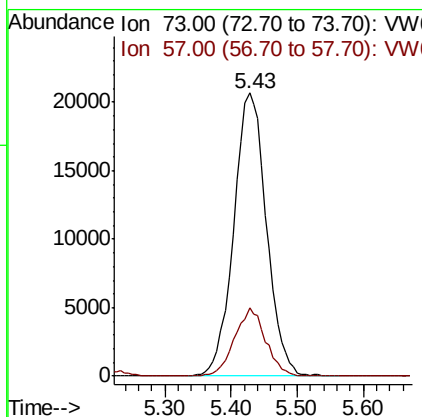
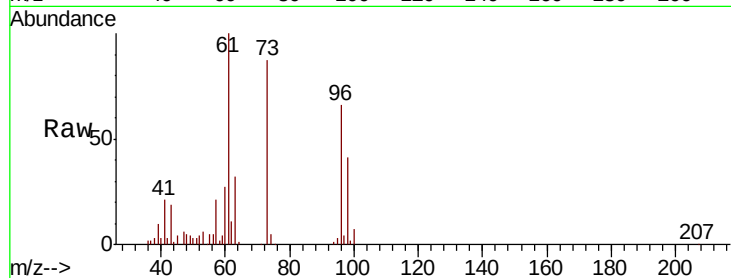
VW092618SBS02

Tgt Ion: 73 Resp: 70889

Ion Ratio Lower Upper

73 100

57 24.2 17.6 26.4



#20

Methylene Chloride

Concen: 24.961 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Tgt Ion: 84 Resp: 62942

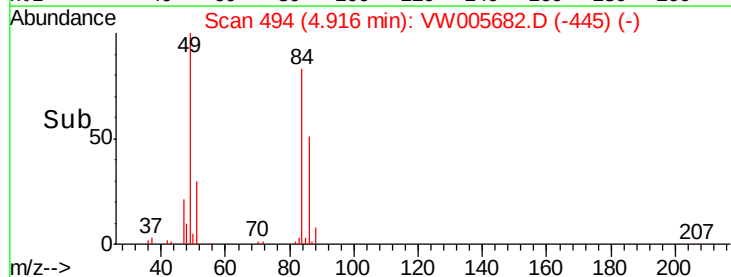
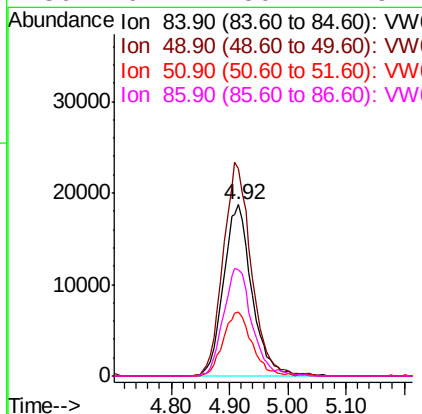
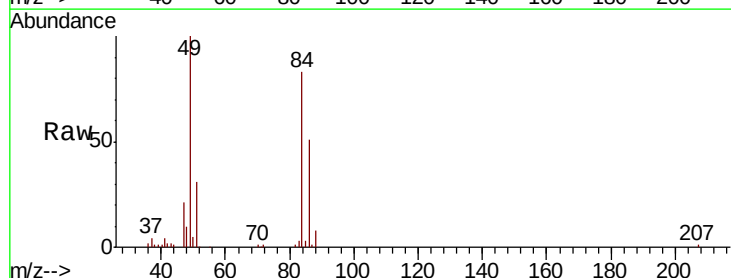
Ion Ratio Lower Upper

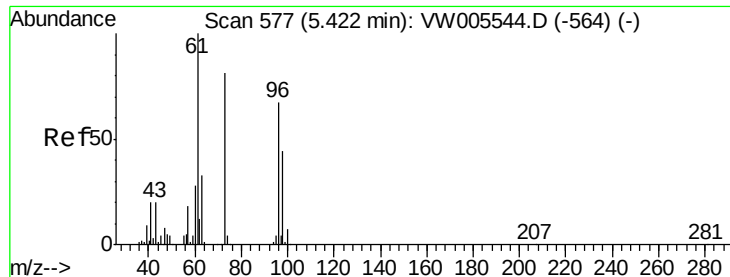
84 100

49 121.1 97.0 145.6

51 37.3 30.2 45.2

86 62.1 50.2 75.4

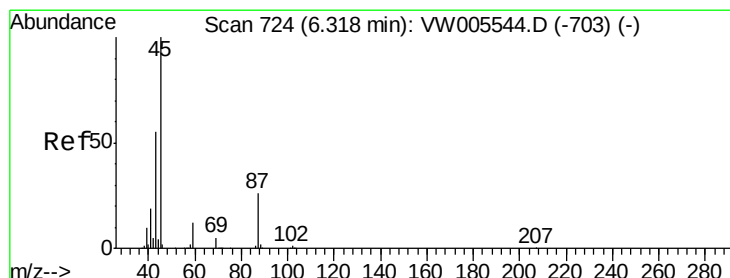
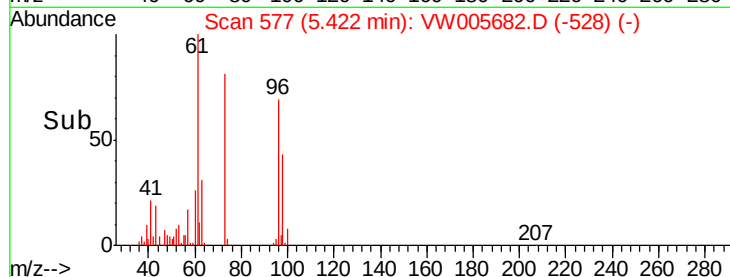
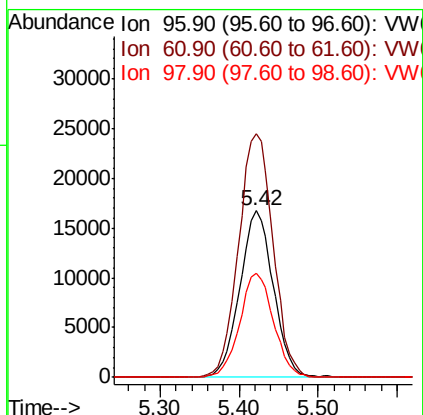
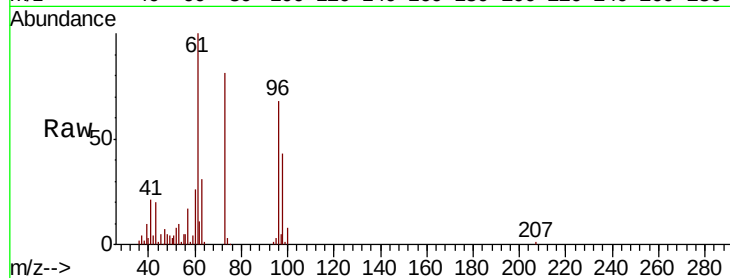




#21  
trans-1,2-Dichloroethene  
Concen: 21.060 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

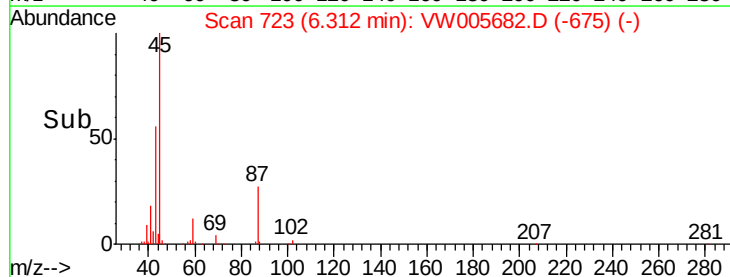
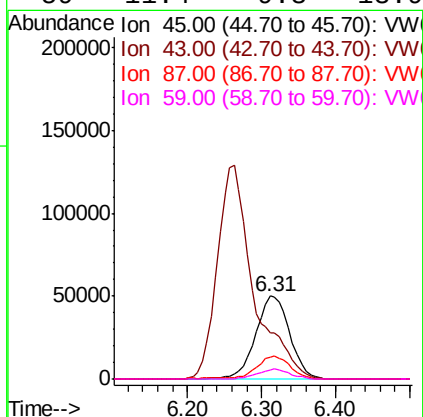
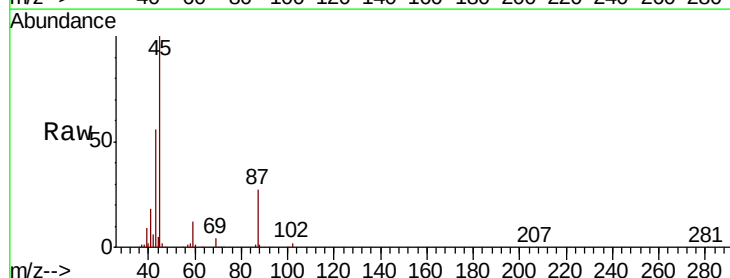
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

Tgt Ion: 96 Resp: 49419  
Ion Ratio Lower Upper  
96 100  
61 146.3 118.9 178.3  
98 62.3 52.1 78.1

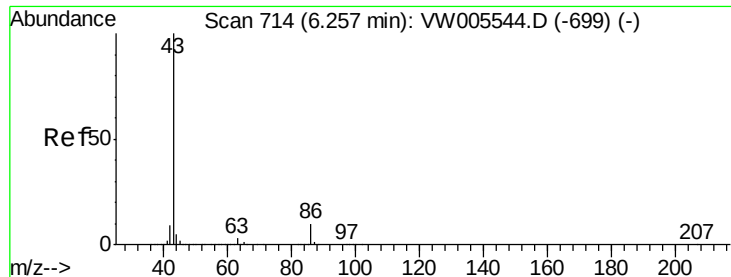


#22  
Diisopropyl ether  
Concen: 22.096 ug/l  
RT: 6.31 min Scan# 723  
Delta R.T. -0.01 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 45 Resp: 160383  
Ion Ratio Lower Upper  
45 100  
43 55.8 44.2 66.4  
87 26.8 21.4 32.2  
59 11.4 9.3 13.9







#23

Vinyl Acetate

Concen: 104.833 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

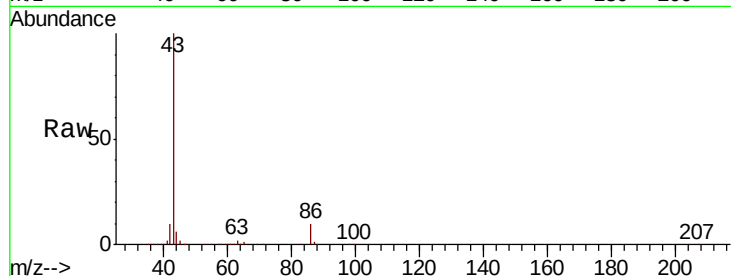
VW092618SBS02

Tgt Ion: 43 Resp: 434913

Ion Ratio Lower Upper

43 100

86 9.8 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

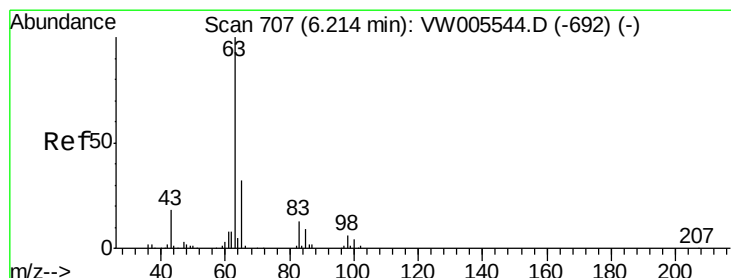
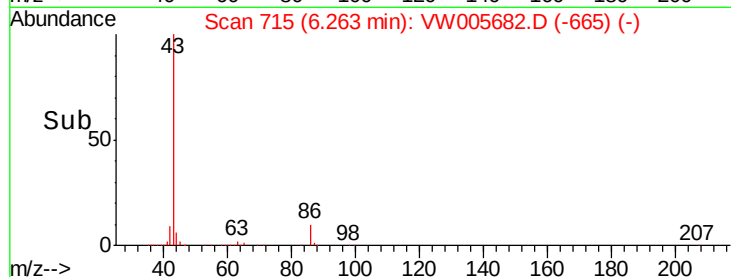
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.342 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

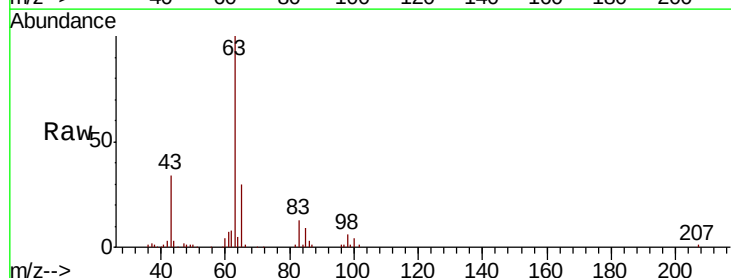
Tgt Ion: 63 Resp: 95706

Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.8

100 4.4 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

40000

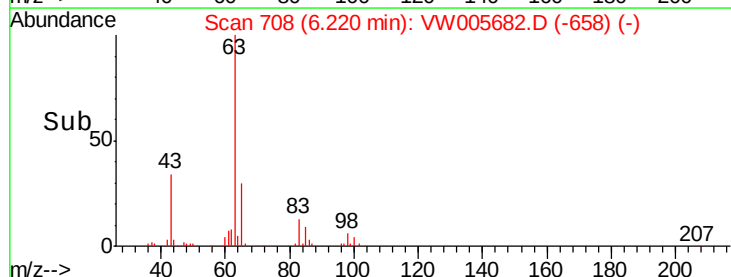
30000

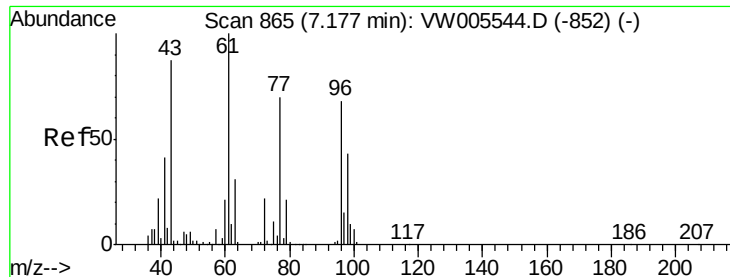
20000

10000

0

Time-->





#25

2-Butanone

Concen: 106.866 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

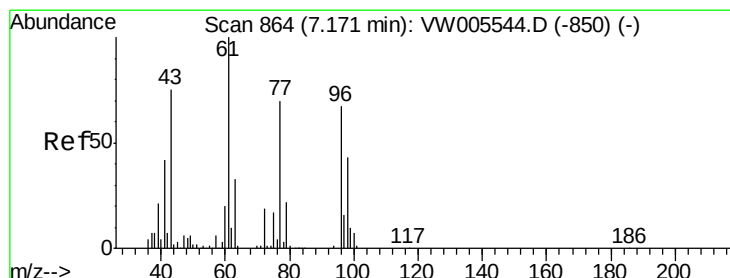
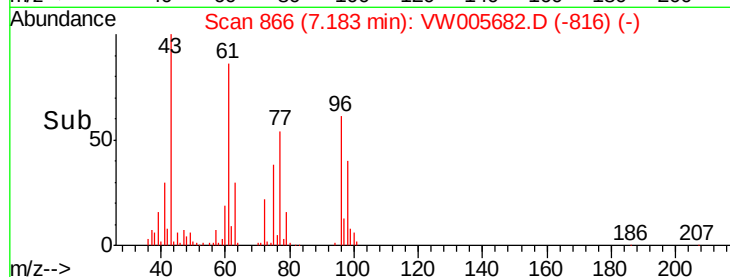
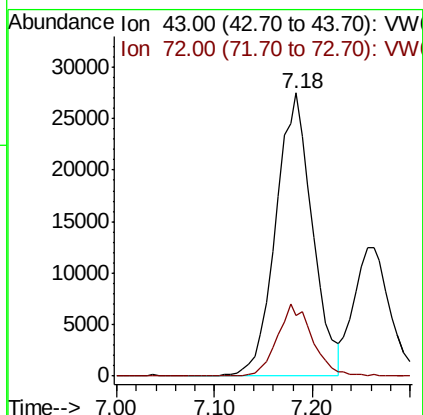
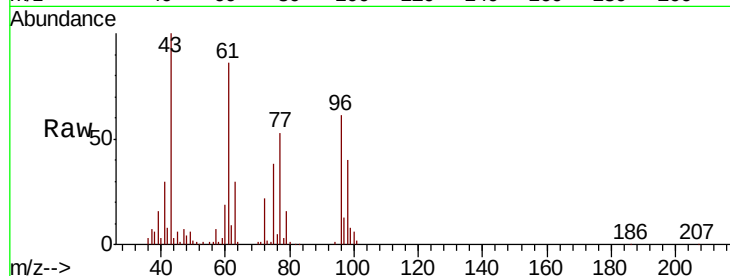
VW092618SBS02

Tgt Ion: 43 Resp: 71930

Ion Ratio Lower Upper

43 100

72 21.5 19.9 29.9



#26

2,2-Dichloropropane

Concen: 18.421 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW005682.D

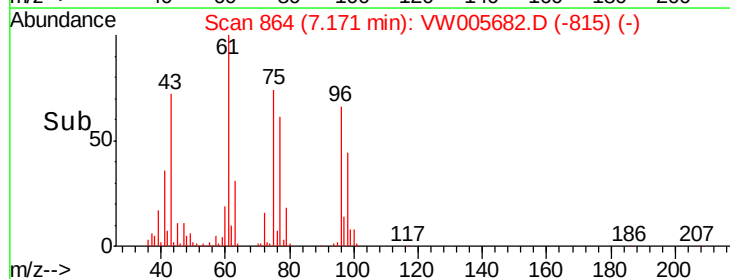
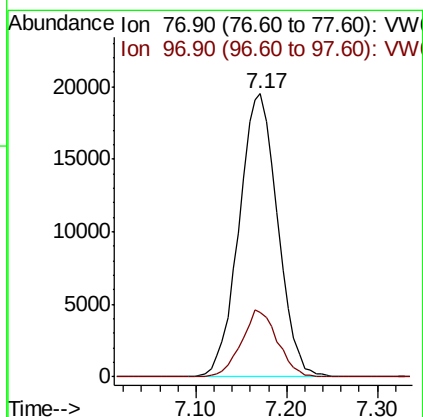
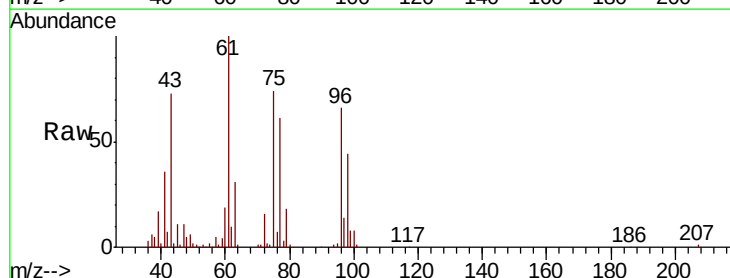
Acq: 27 Sep 2018 05:45

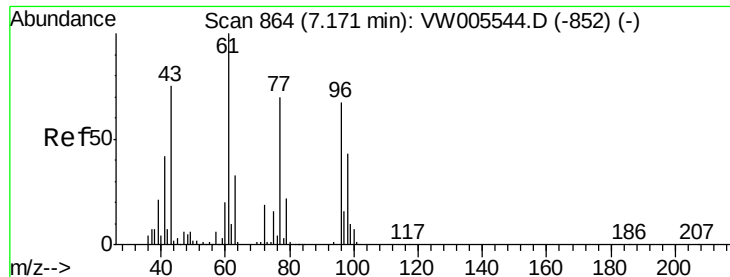
Tgt Ion: 77 Resp: 57670

Ion Ratio Lower Upper

77 100

97 22.1 11.0 33.0



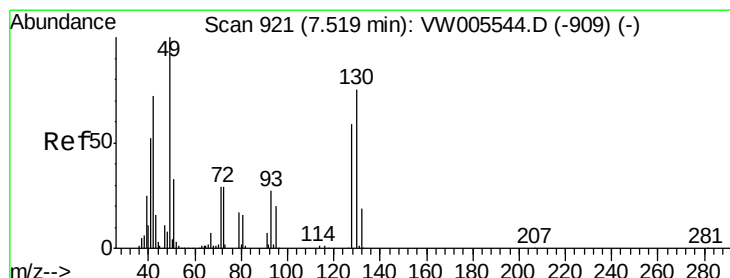
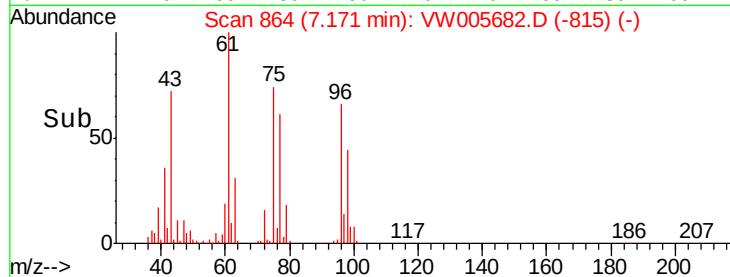
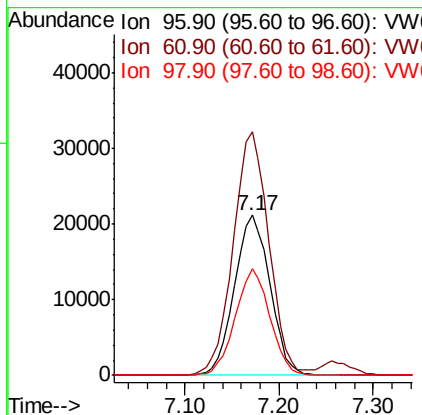
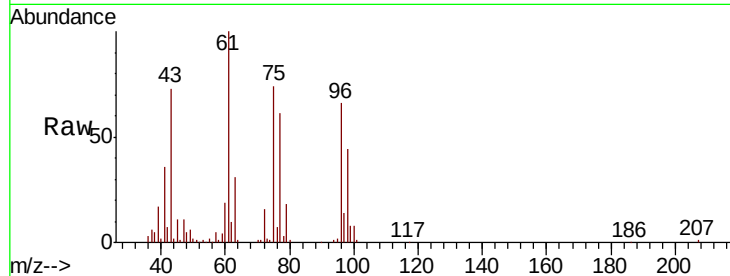


#27

cis-1,2-Dichloroethene  
Concen: 21.440 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

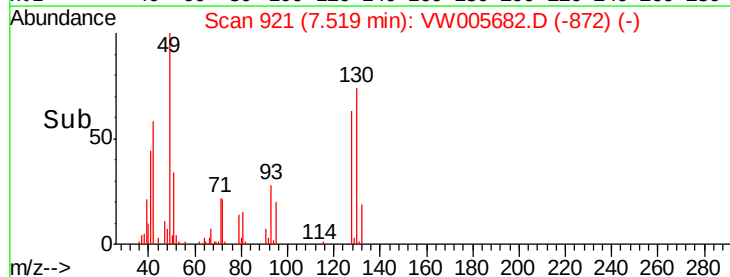
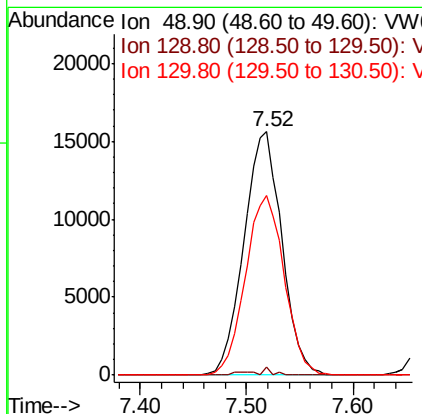
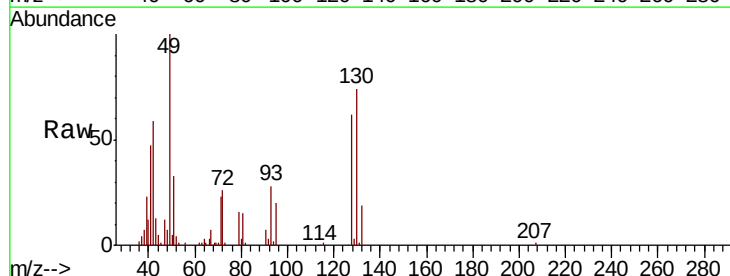
Tgt Ion: 96 Resp: 55492  
Ion Ratio Lower Upper  
96 100  
61 152.6 0.0 303.4  
98 64.8 0.0 127.2

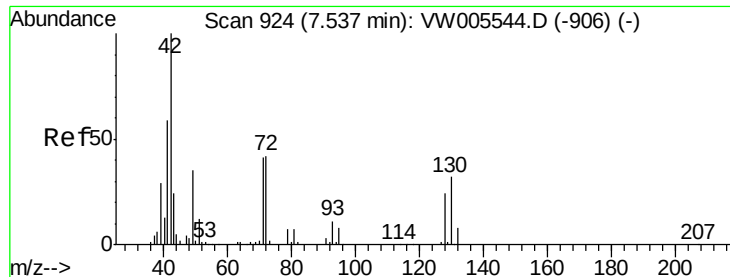


#28

Bromochloromethane  
Concen: 22.020 ug/l  
RT: 7.52 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 49 Resp: 39115  
Ion Ratio Lower Upper  
49 100  
129 0.7 0.0 1.4  
130 75.3 61.3 91.9





#29

Tetrahydrofuran

Concen: 106.702 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

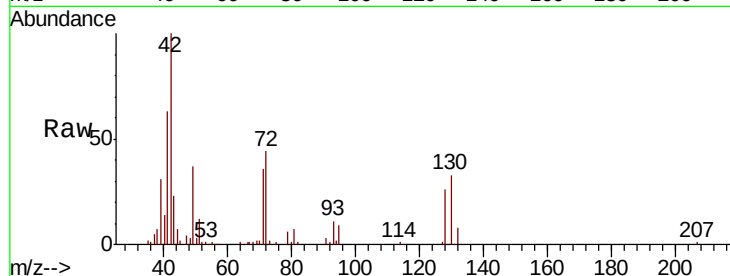
Tgt Ion: 42 Resp: 44868

Ion Ratio Lower Upper

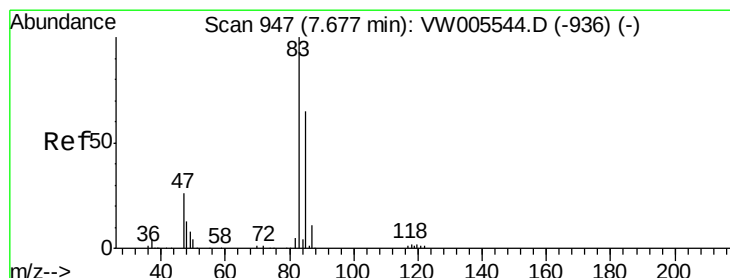
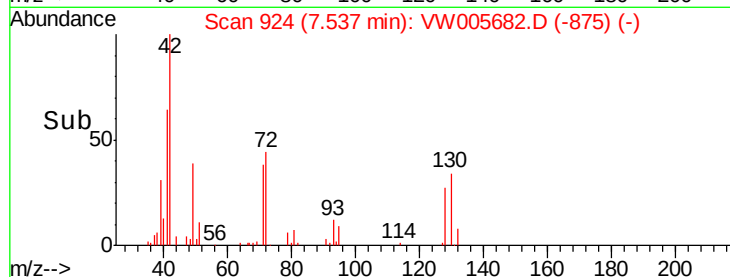
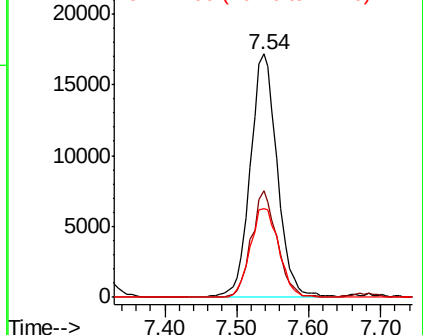
42 100

72 41.5 33.6 50.4

71 38.6 31.8 47.6



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: 20.985 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW005682.D

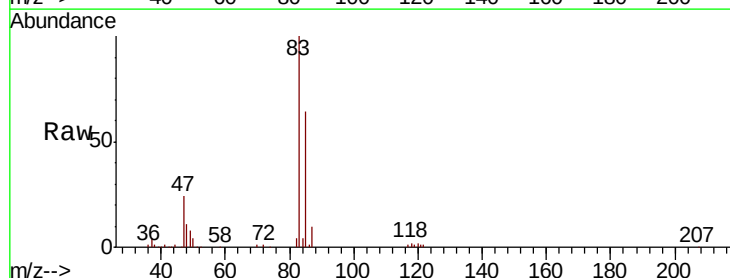
Acq: 27 Sep 2018 05:45

Tgt Ion: 83 Resp: 97156

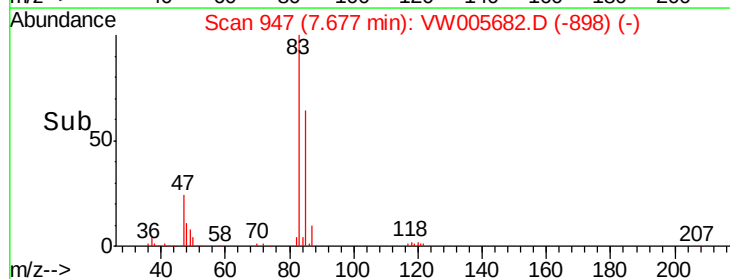
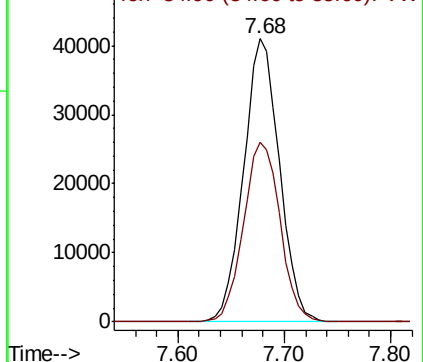
Ion Ratio Lower Upper

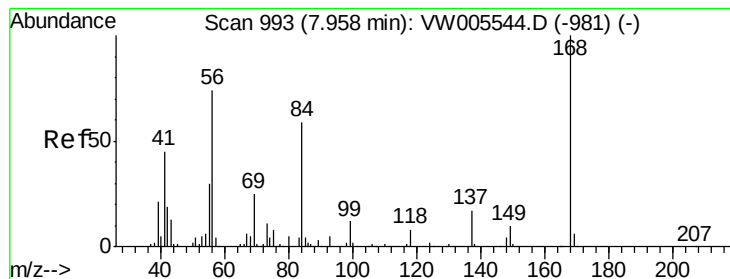
83 100

85 63.6 51.8 77.6



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





#31

Cyclohexane

Concen: 19.571 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

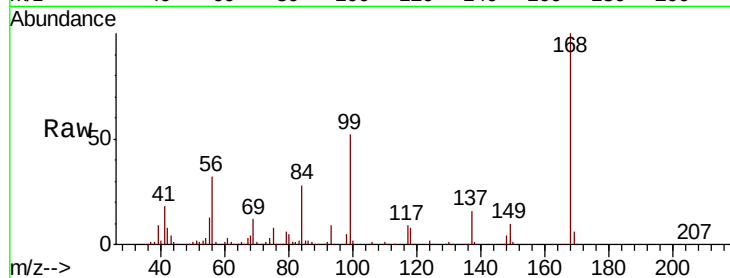
Tgt Ion: 56 Resp: 84084

Ion Ratio Lower Upper

56 100

69 38.5 27.0 40.4

84 85.6 64.2 96.4

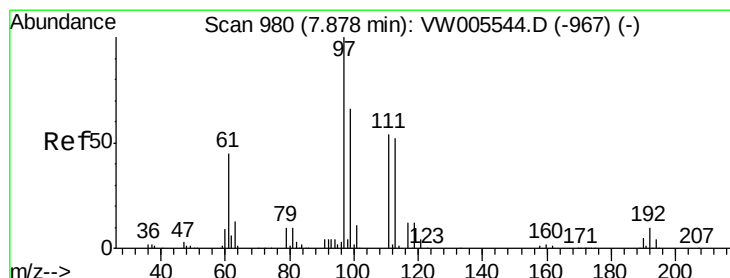
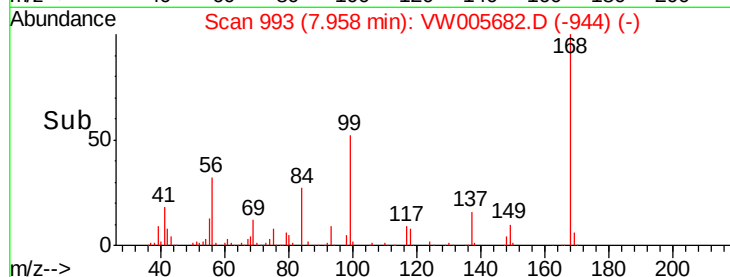
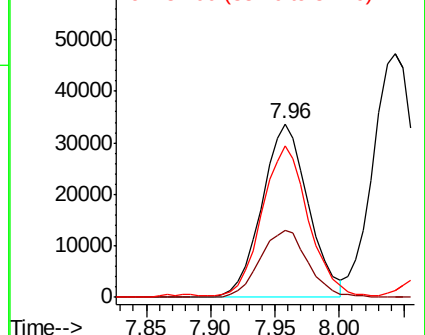


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 20.338 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

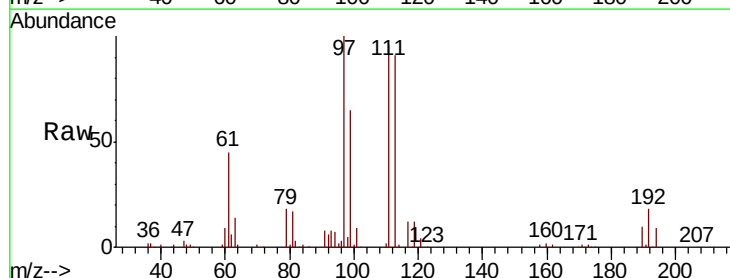
Tgt Ion: 97 Resp: 83182

Ion Ratio Lower Upper

97 100

99 63.0 51.0 76.6

61 44.9 36.2 54.2

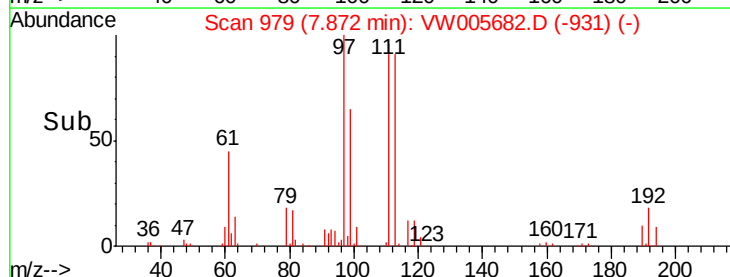
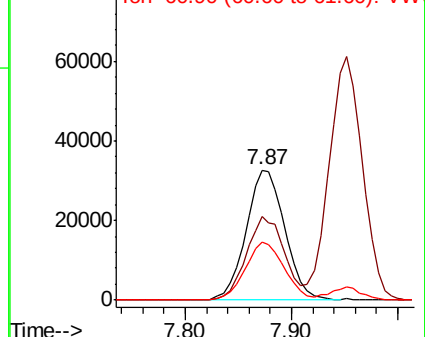


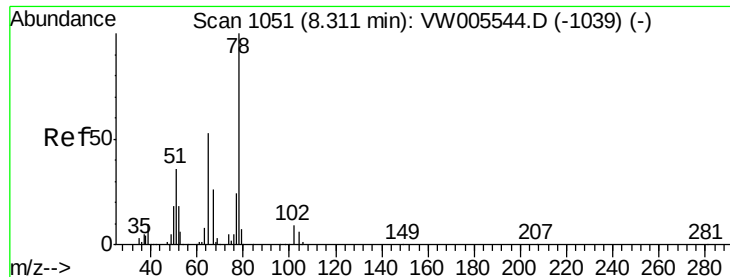
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 98.90 (98.60 to 99.60): VW

Ion 60.90 (60.60 to 61.60): VW

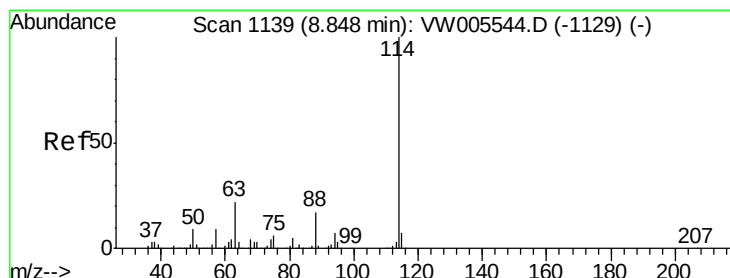
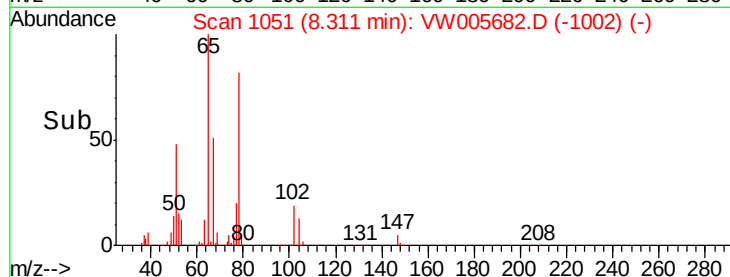
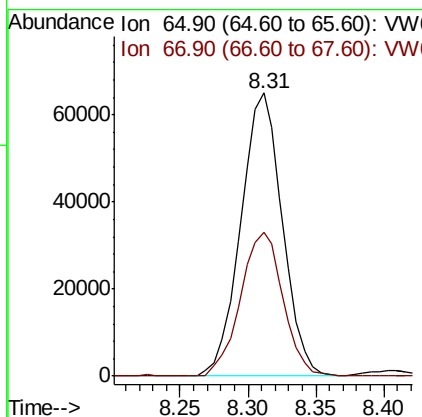
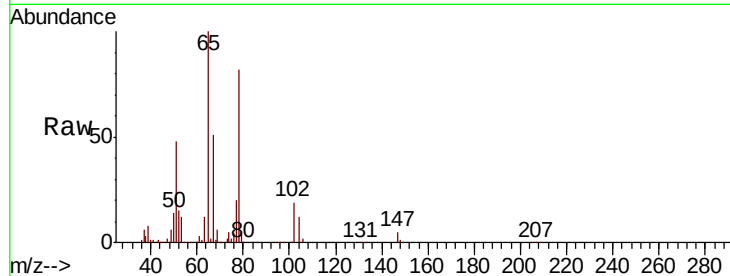




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.129 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

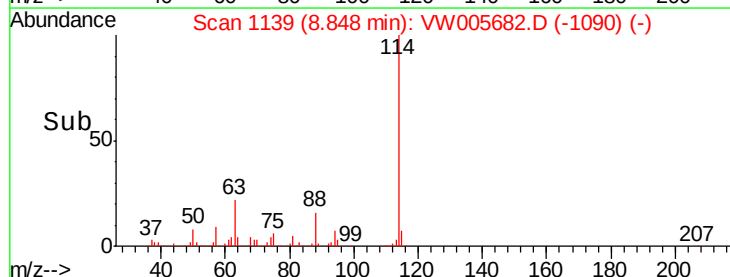
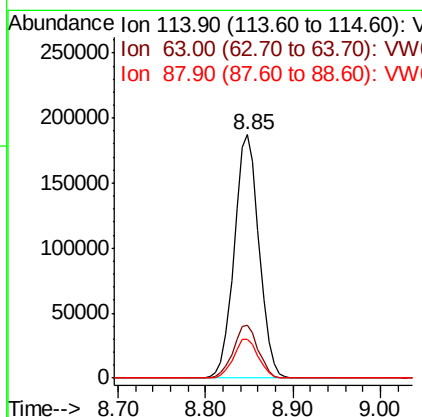
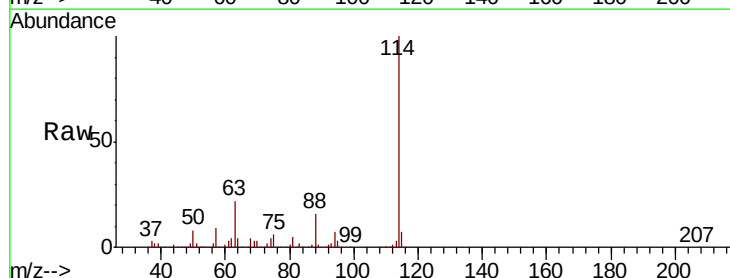
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

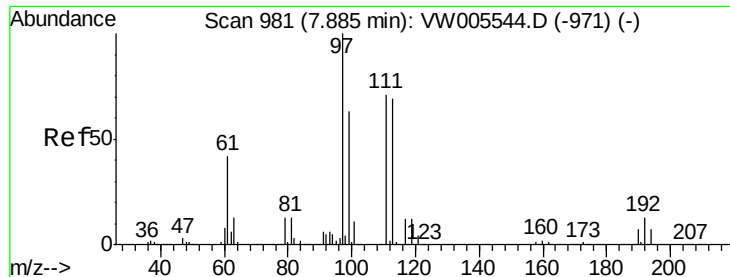
Tgt Ion: 65 Resp: 138921  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 114 Resp: 368201  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 43.0  
 88 16.2 0.0 33.0

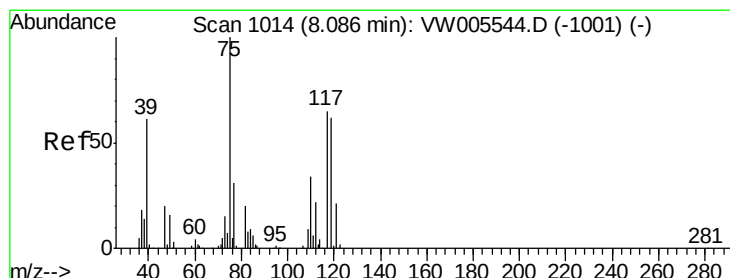
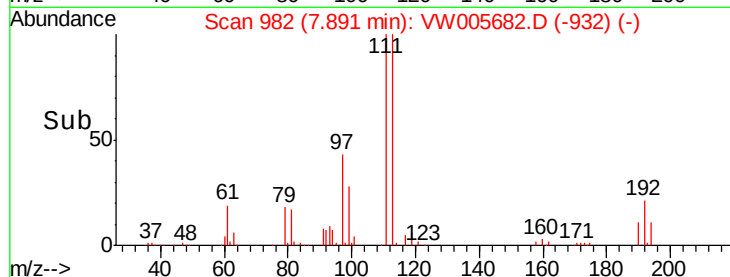
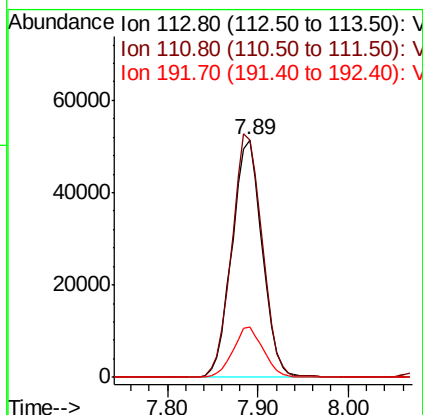
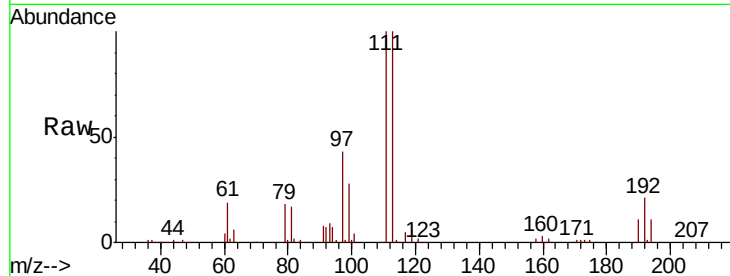




#35  
 Dibromofluoromethane  
 Concen: 51.248 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

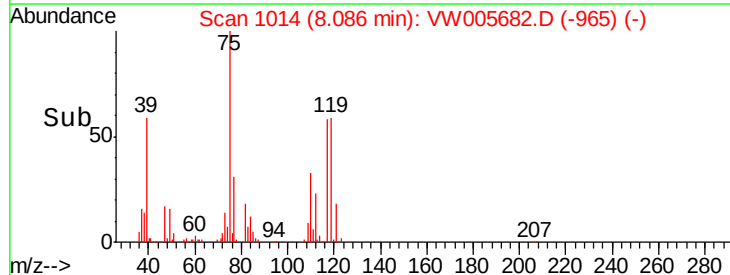
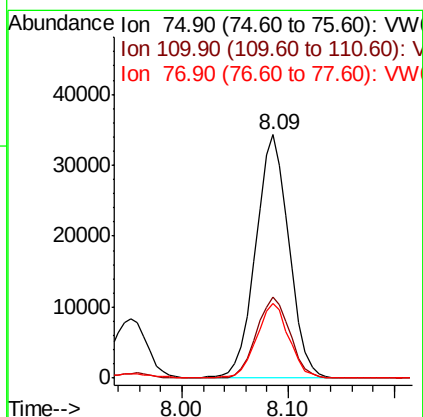
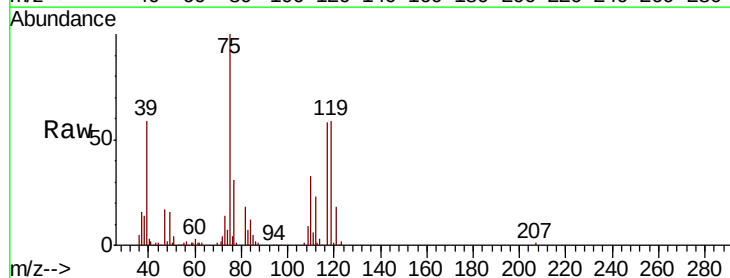
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

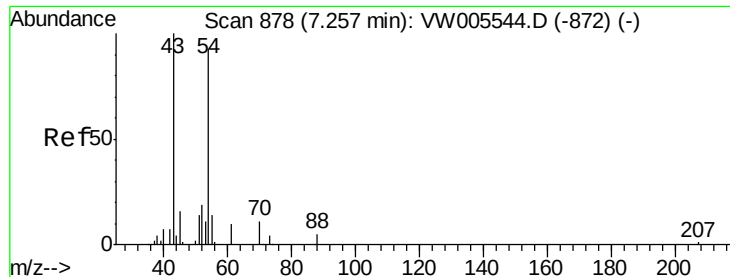
Tgt Ion: 113 Resp: 118663  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 82.6 123.8  
 192 21.0 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 20.325 ug/l  
 RT: 8.09 min Scan# 1014  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 75 Resp: 75336  
 Ion Ratio Lower Upper  
 75 100  
 110 33.3 17.0 50.9  
 77 30.3 24.8 37.2

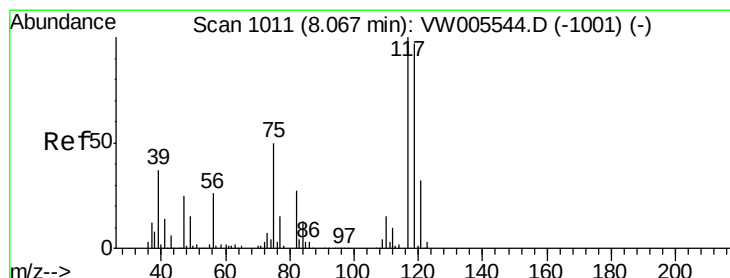
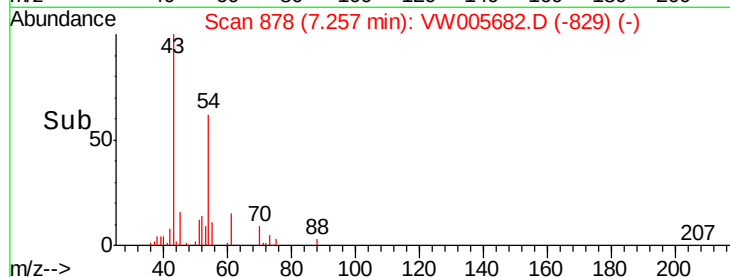
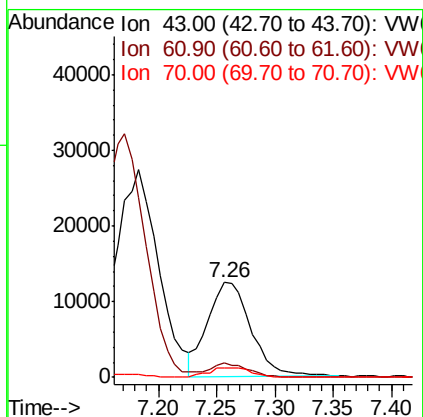
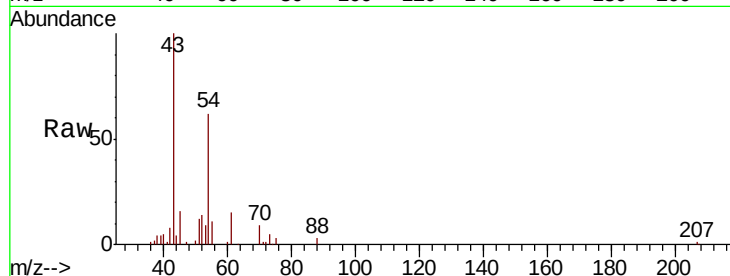




#37  
Ethyl Acetate  
Concen: 20.588 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. -0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

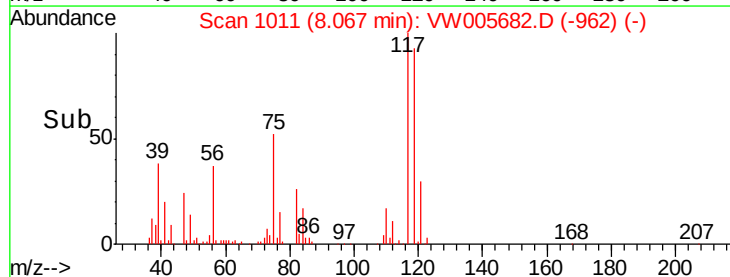
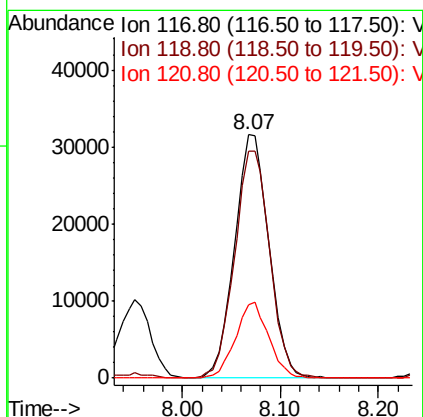
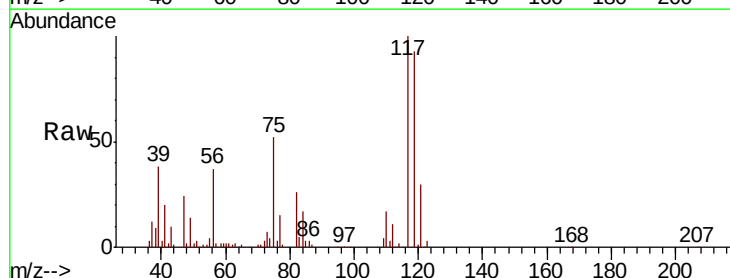
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

Tgt Ion: 43 Resp: 32113  
Ion Ratio Lower Upper  
43 100  
61 13.3 10.4 15.6  
70 10.4 8.2 12.2

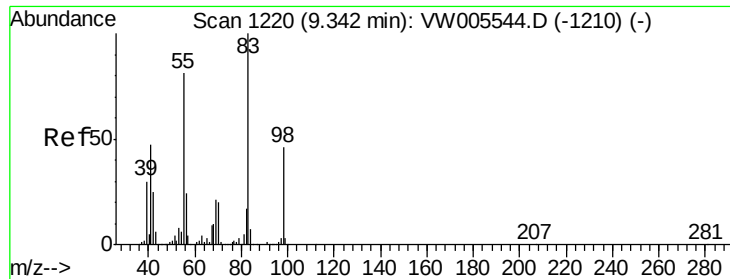


#38  
Carbon Tetrachloride  
Concen: 19.377 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 117 Resp: 76961  
Ion Ratio Lower Upper  
117 100  
119 93.2 77.6 116.4  
121 30.2 25.7 38.5



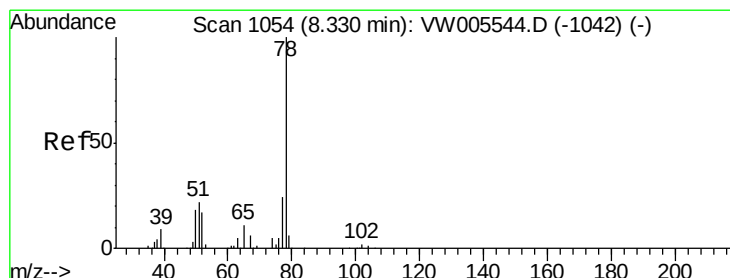
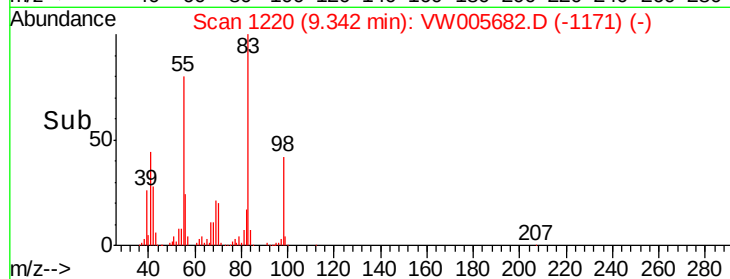
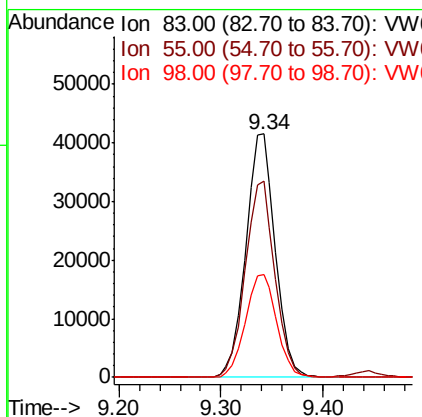
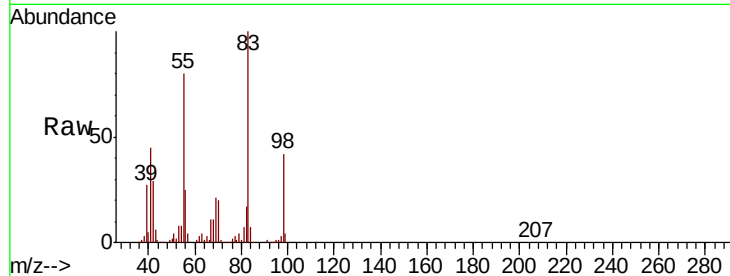




#39  
Methylcyclohexane  
Concen: 19.010 ug/l  
RT: 9.34 min Scan# 1220  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

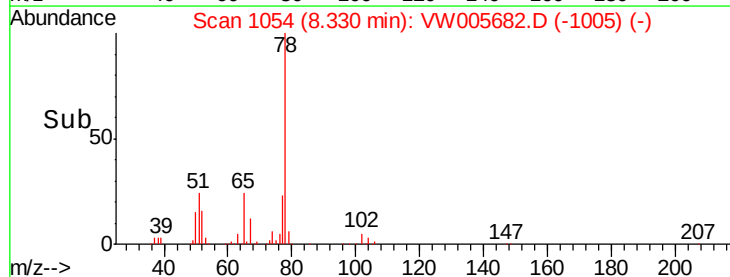
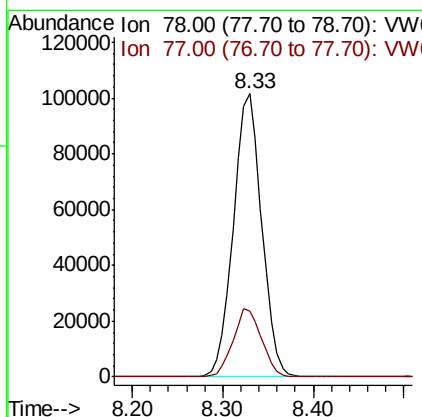
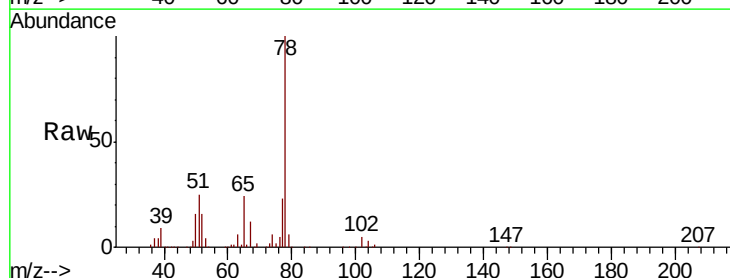
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

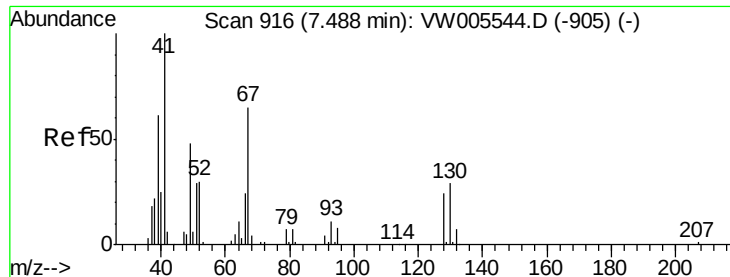
Tgt Ion: 83 Resp: 83134  
Ion Ratio Lower Upper  
83 100  
55 80.4 64.6 97.0  
98 42.5 37.0 55.6



#40  
Benzene  
Concen: 20.900 ug/l  
RT: 8.33 min Scan# 1054  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 78 Resp: 219495  
Ion Ratio Lower Upper  
78 100  
77 23.3 19.0 28.4

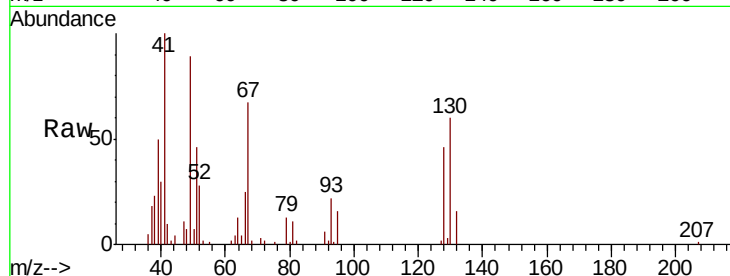




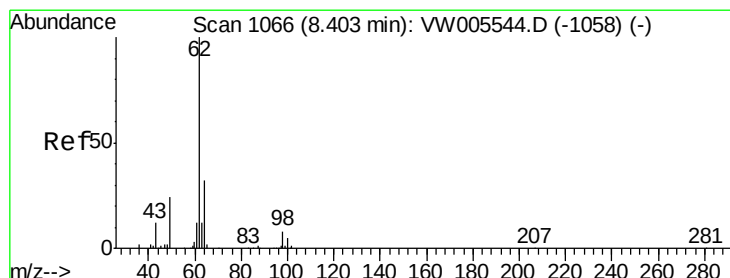
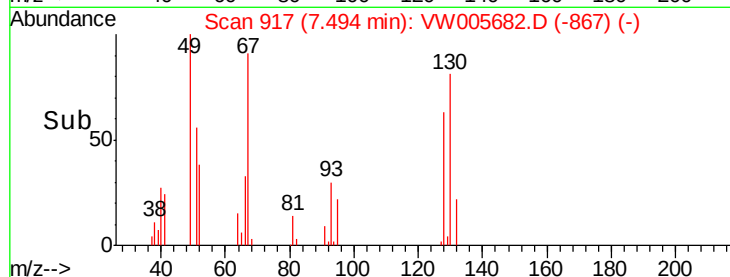
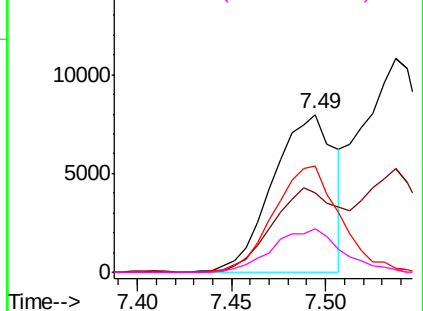
#41  
Methacrylonitrile  
Concen: 20.600 ug/l  
RT: 7.49 min Scan# 917  
Delta R.T. 0.01 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 18285 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.4  | 45.4  | 68.2  |
| 67       | 72.1  | 55.2  | 82.8  |
| 52       | 30.5  | 25.3  | 37.9  |

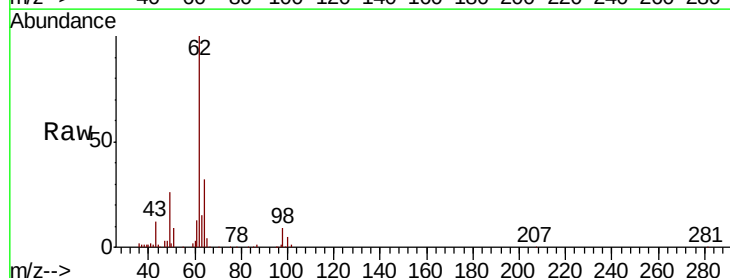


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

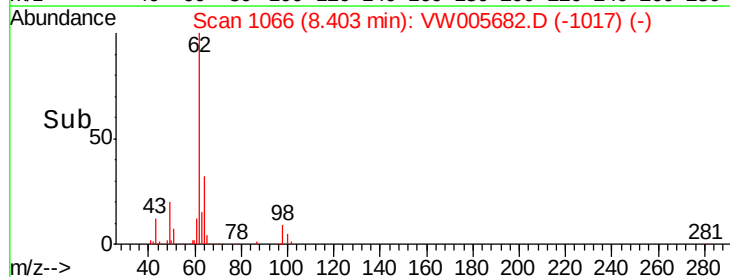
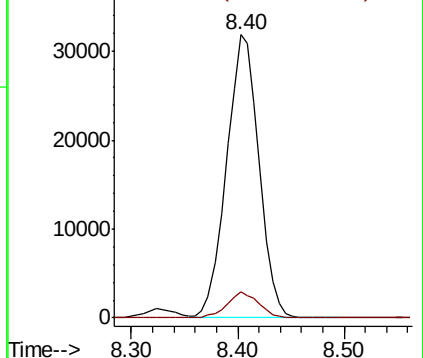


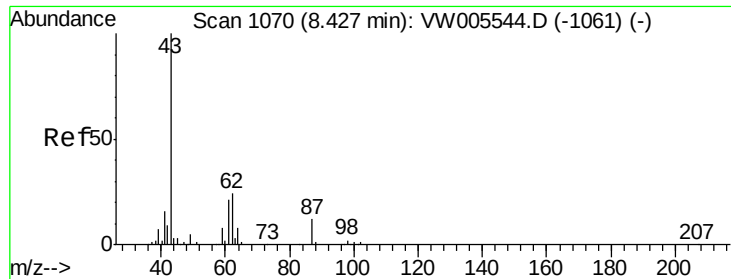
#42  
1,2-Dichloroethane  
Concen: 20.165 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 67803 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.9   | 0.0   | 15.6  |



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





#43

Isopropyl Acetate

Concen: 20.430 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

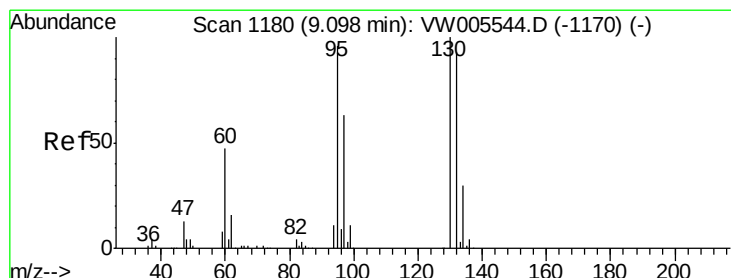
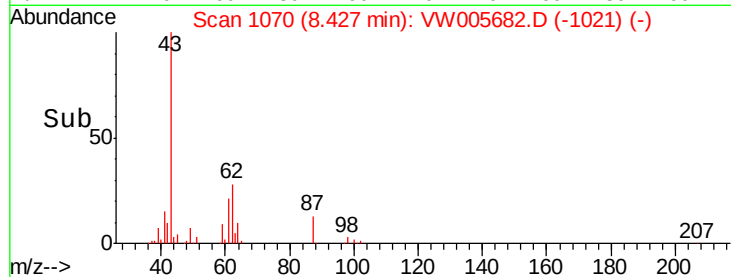
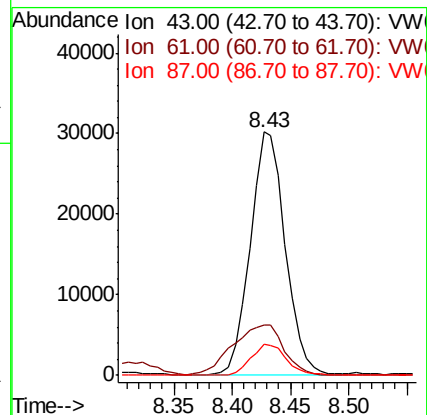
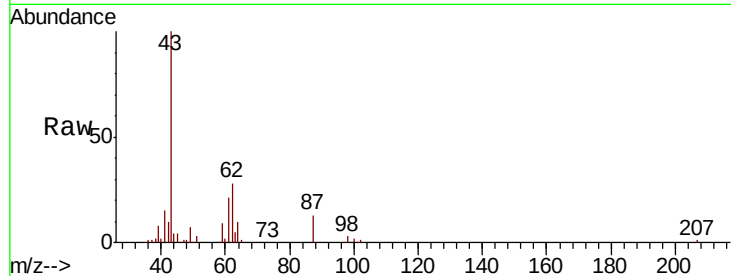
Tgt Ion: 43 Resp: 62653

Ion Ratio Lower Upper

43 100

61 30.3 24.1 36.1

87 12.9 9.8 14.8



#44

Trichloroethene

Concen: 20.077 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VW005682.D

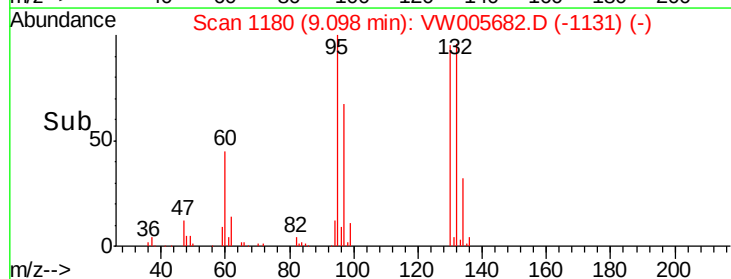
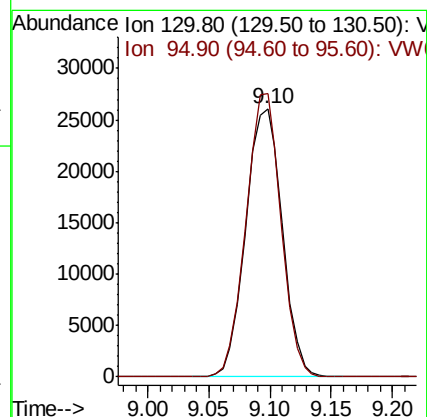
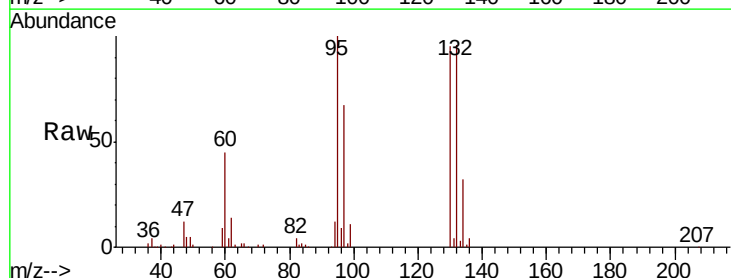
Acq: 27 Sep 2018 05:45

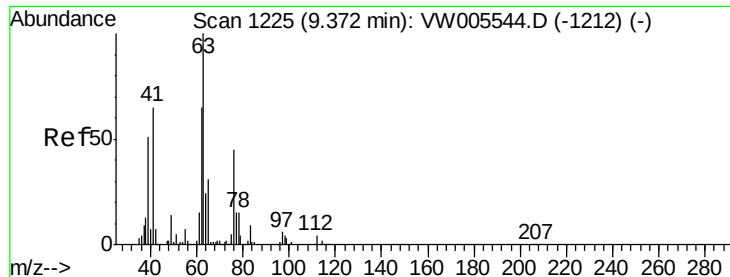
Tgt Ion: 130 Resp: 53970

Ion Ratio Lower Upper

130 100

95 105.6 0.0 191.2

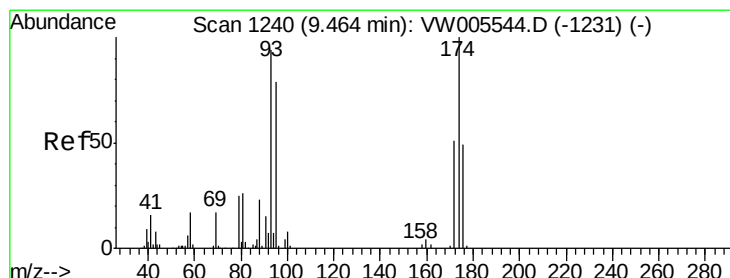
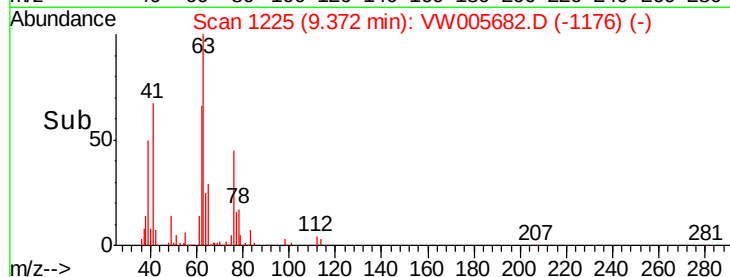
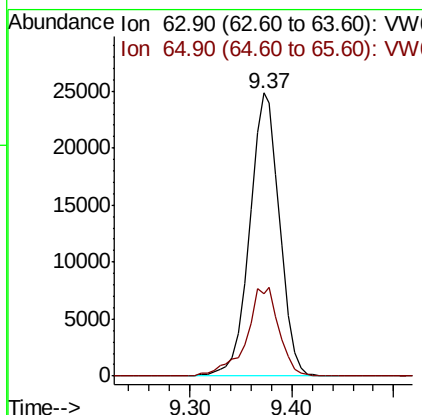
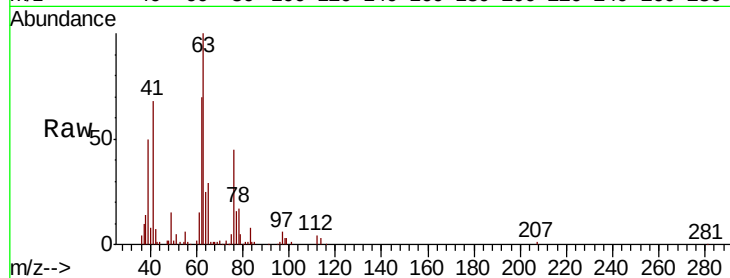




#45  
 1,2-Dichloropropane  
 Concen: 19.528 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

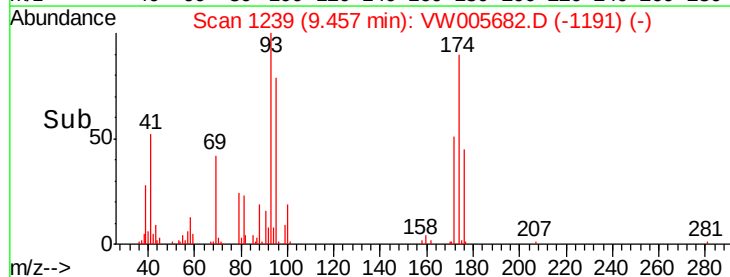
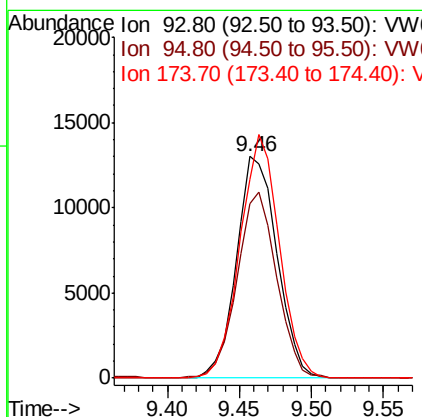
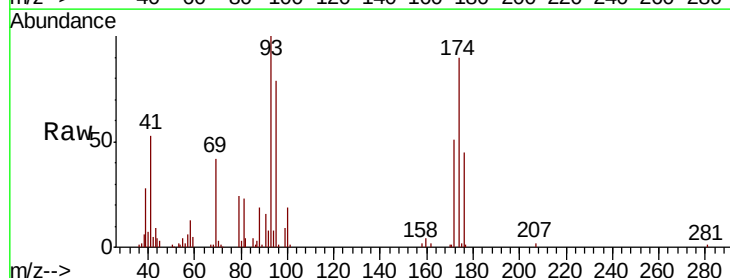
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

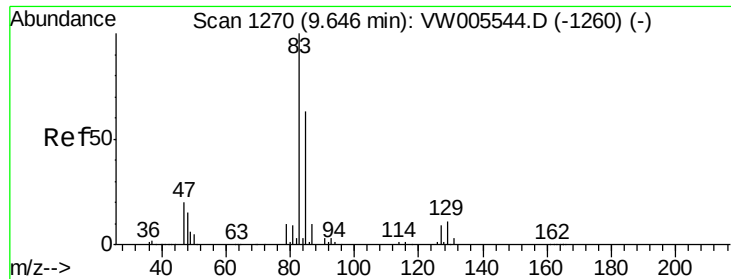
Tgt Ion: 63 Resp: 50455  
 Ion Ratio Lower Upper  
 63 100  
 65 29.2 24.7 37.1



#46  
 Dibromomethane  
 Concen: 19.700 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.01 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 93 Resp: 25432  
 Ion Ratio Lower Upper  
 93 100  
 95 81.9 65.8 98.8  
 174 106.4 84.0 126.0





#47

Bromodichloromethane

Concen: 19.123 ug/l

RT: 9.65 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

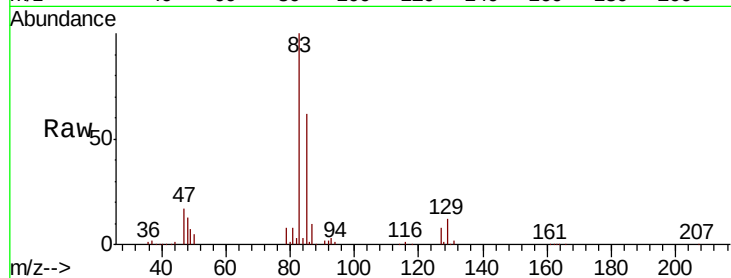
Tgt Ion: 83 Resp: 66316

Ion Ratio Lower Upper

83 100

85 61.8 50.5 75.7

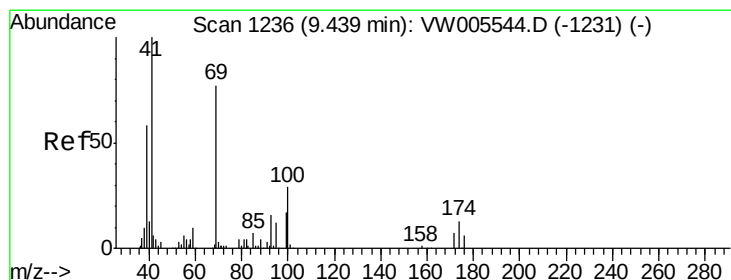
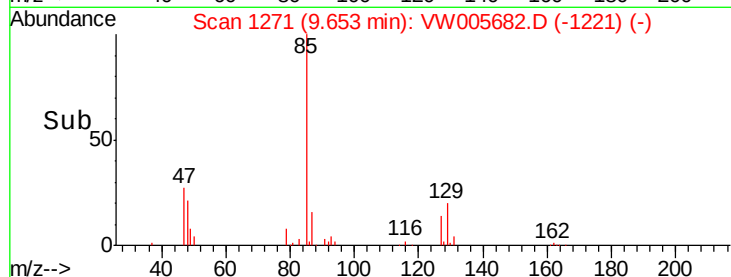
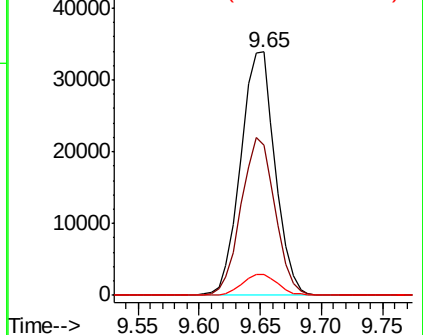
127 8.3 7.0 10.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.436 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

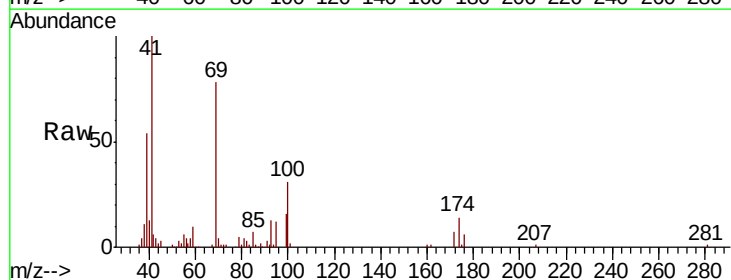
Tgt Ion: 41 Resp: 28311

Ion Ratio Lower Upper

41 100

69 85.1 64.7 97.1

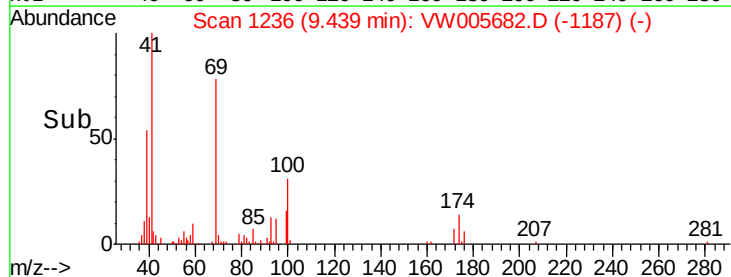
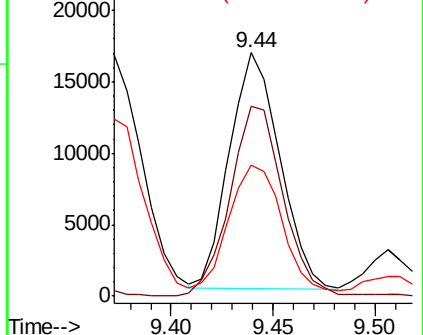
39 61.0 50.5 75.7

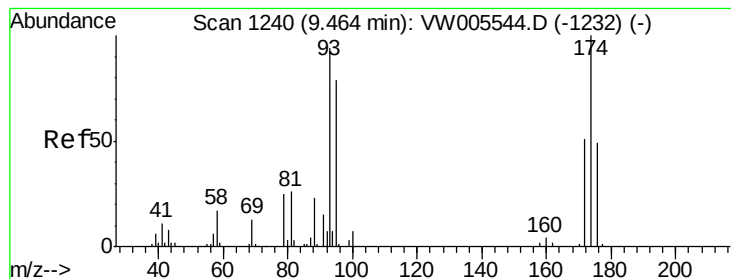


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 393.583 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

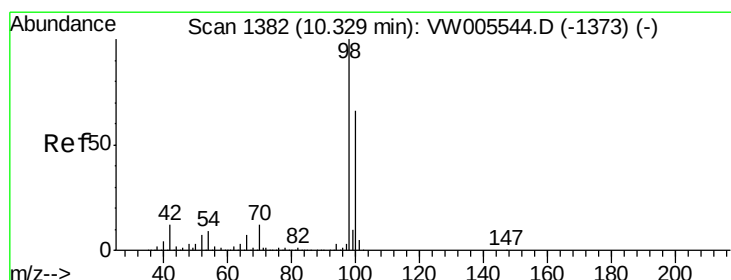
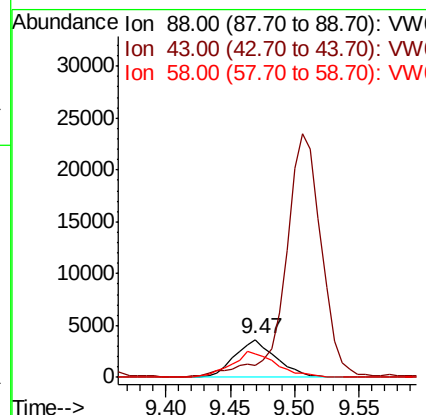
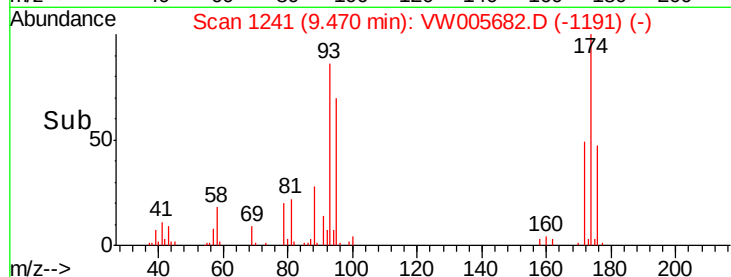
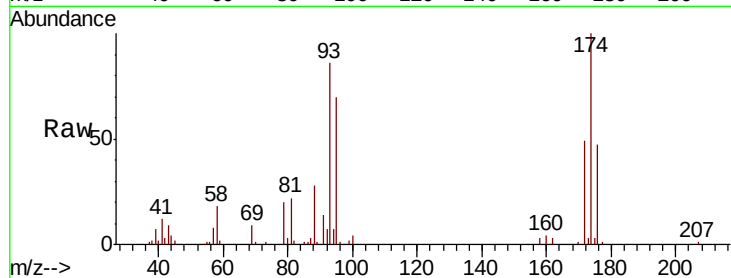
Tgt Ion: 88 Resp: 8078

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 76.5 61.2 91.8



#50

Toluene-d8

Concen: 51.412 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005682.D

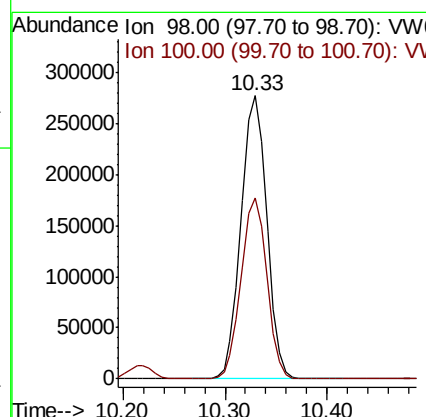
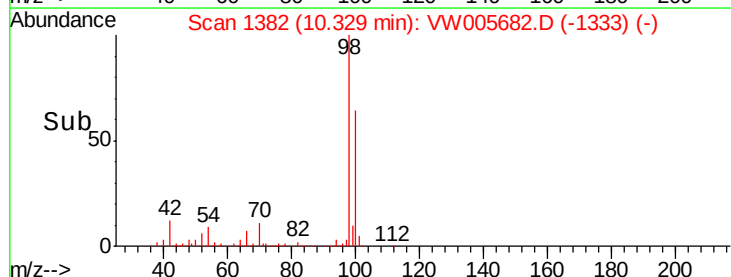
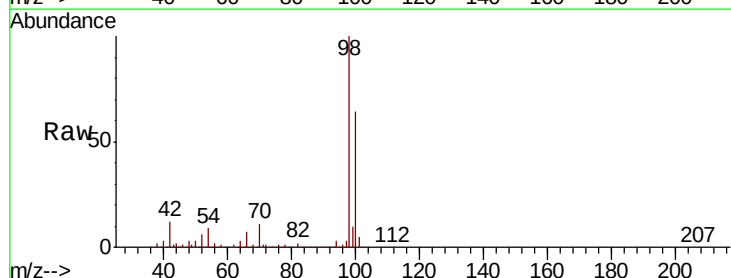
Acq: 27 Sep 2018 05:45

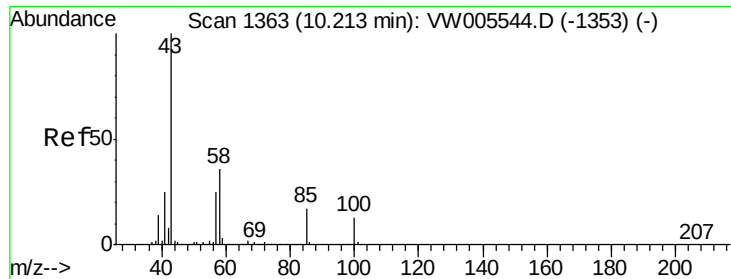
Tgt Ion: 98 Resp: 484720

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 104.843 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

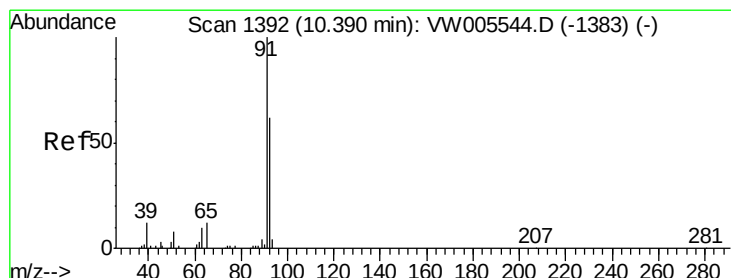
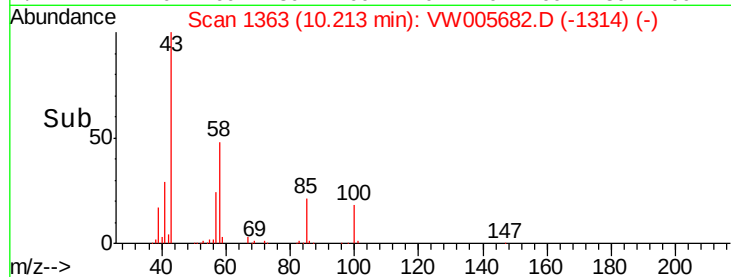
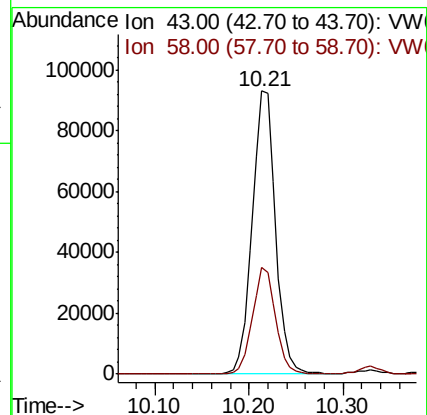
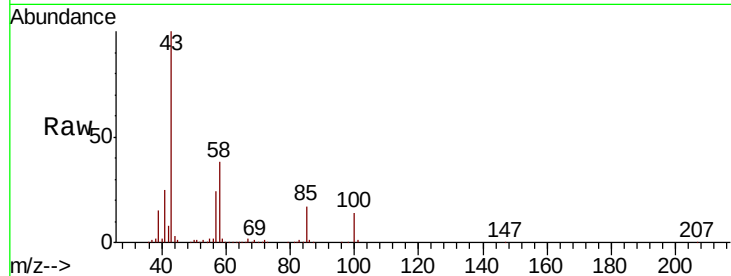
VW092618SBS02

Tgt Ion: 43 Resp: 161940

Ion Ratio Lower Upper

43 100

58 37.2 30.0 45.0



#52

Toluene

Concen: 20.774 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW005682.D

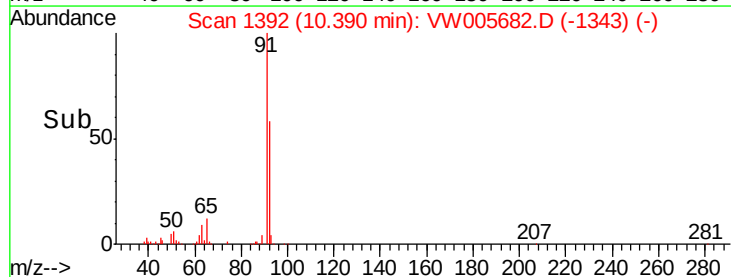
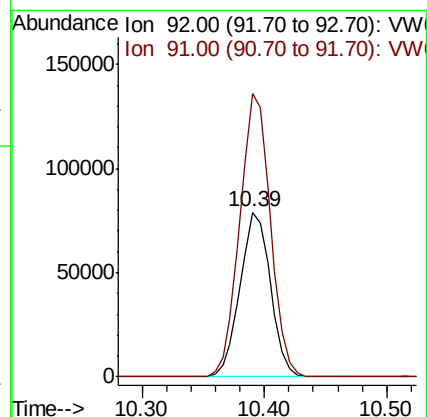
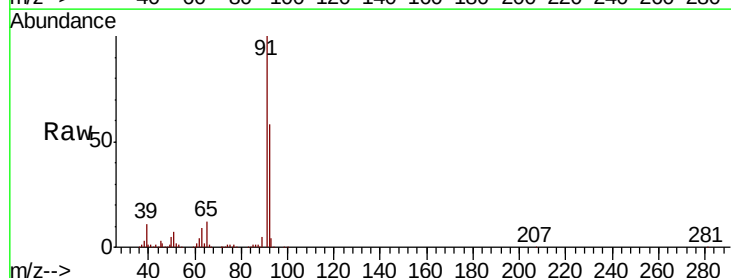
Acq: 27 Sep 2018 05:45

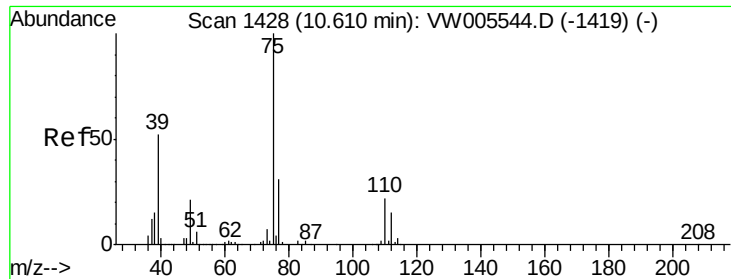
Tgt Ion: 92 Resp: 136126

Ion Ratio Lower Upper

92 100

91 173.3 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 19.572 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

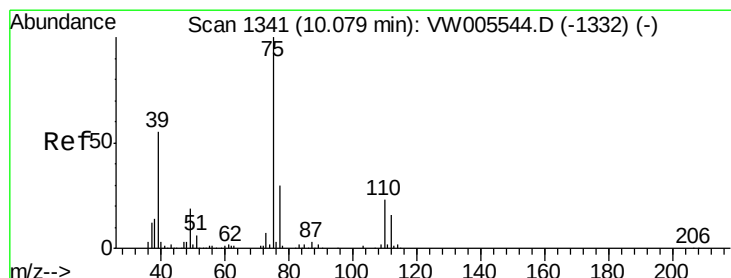
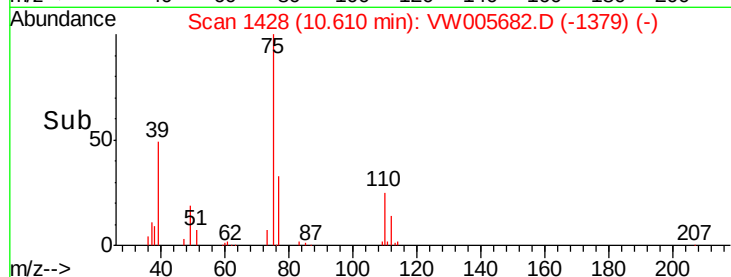
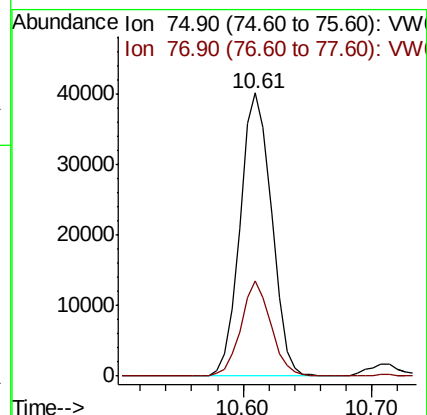
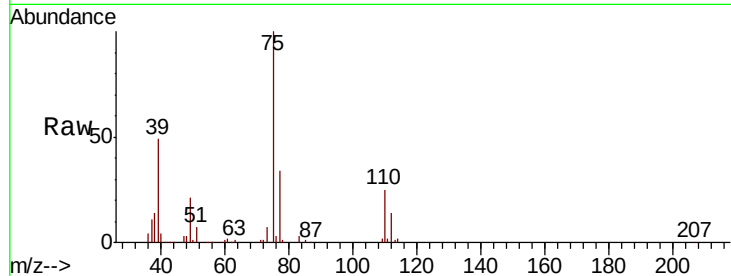
VW092618SBS02

Tgt Ion: 75 Resp: 68041

Ion Ratio Lower Upper

75 100

77 33.3 24.6 37.0



#54

cis-1,3-Dichloropropene

Concen: 19.917 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

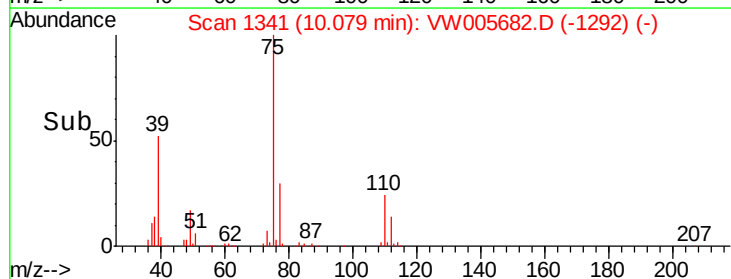
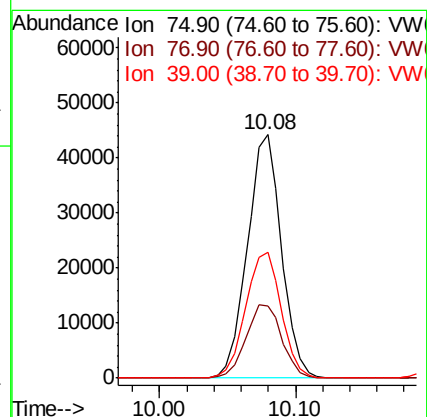
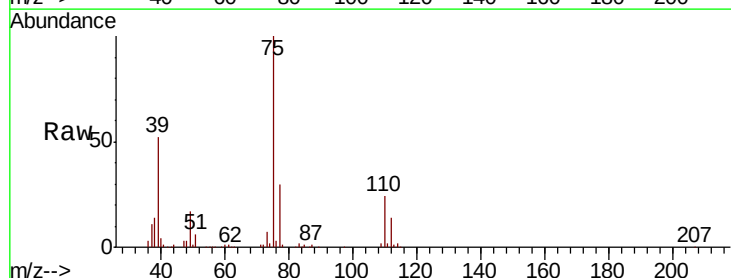
Tgt Ion: 75 Resp: 77577

Ion Ratio Lower Upper

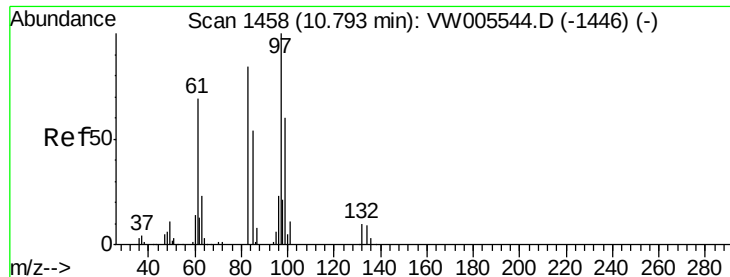
75 100

77 29.7 24.3 36.5

39 51.7 43.7 65.5



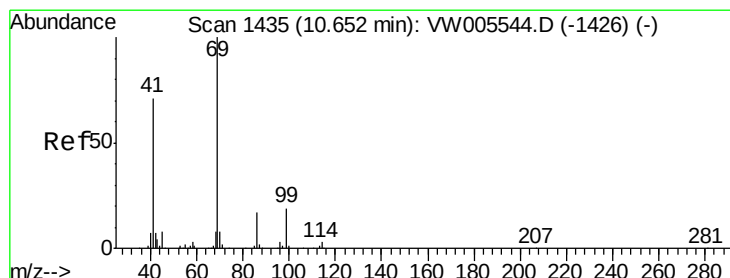
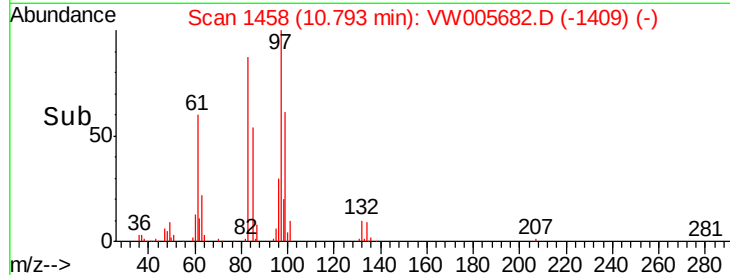
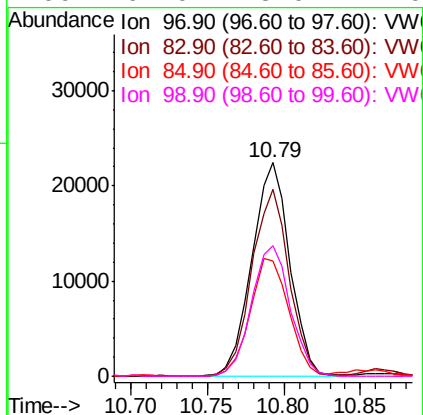
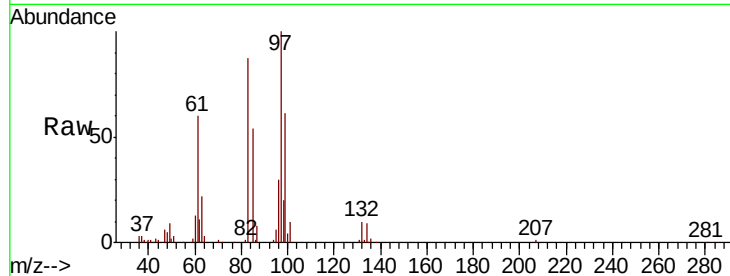




#55  
 1,1,2-Trichloroethane  
 Concen: 21.087 ug/l  
 RT: 10.79 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

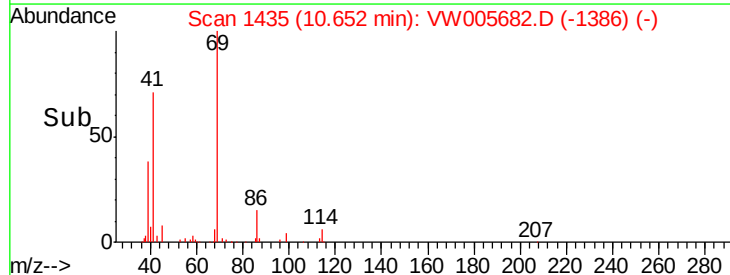
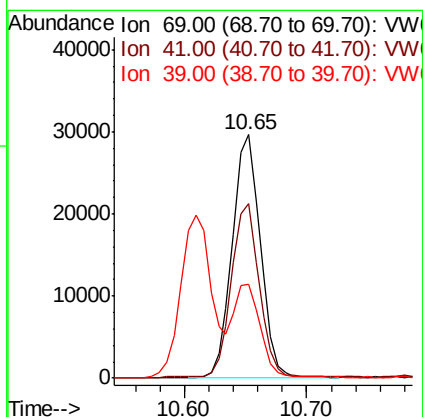
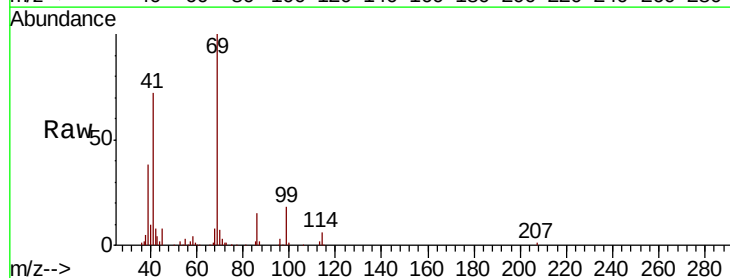
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

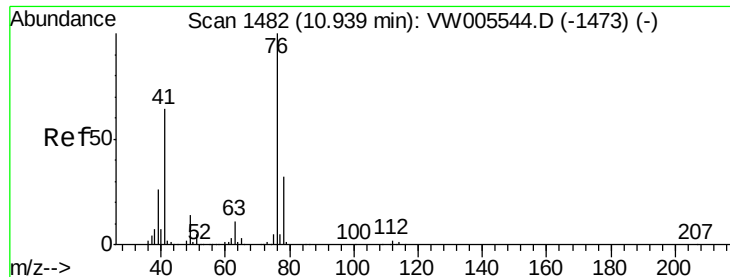
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 38641 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.4  | 67.4  | 101.2 |
| 85       | 54.2  | 43.3  | 64.9  |
| 99       | 61.0  | 48.0  | 72.0  |



#56  
 Ethyl methacrylate  
 Concen: 20.875 ug/l  
 RT: 10.65 min Scan# 1435  
 Delta R.T. -0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 47220 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 69.4  | 57.3  | 85.9  |
| 39       | 35.3  | 29.2  | 43.8  |

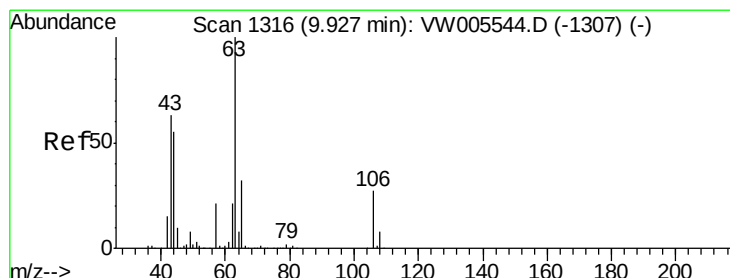
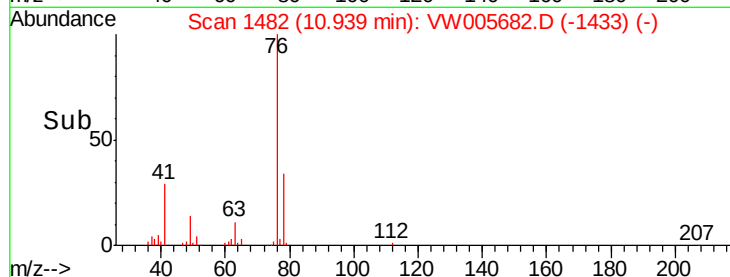
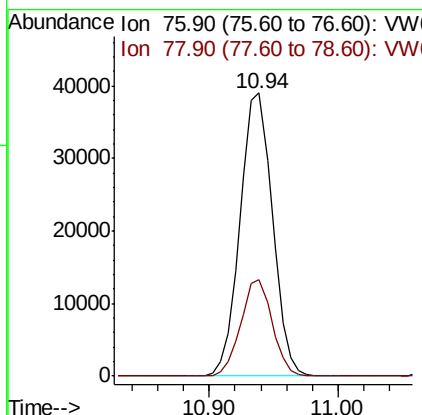
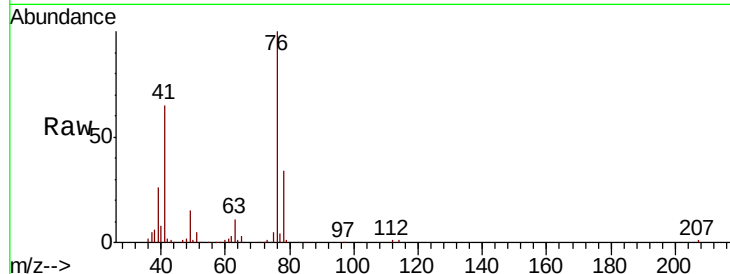




#57  
 1,3-Dichloropropane  
 Concen: 20.945 ug/l  
 RT: 10.94 min Scan# 1482  
 Delta R.T. -0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

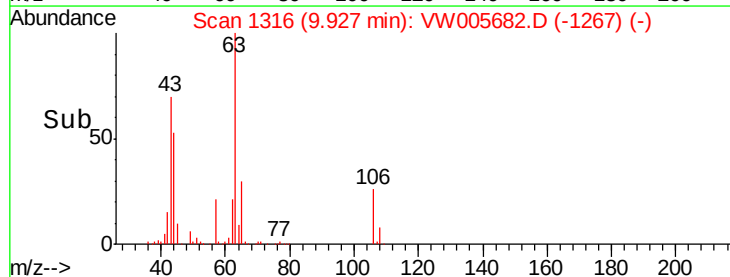
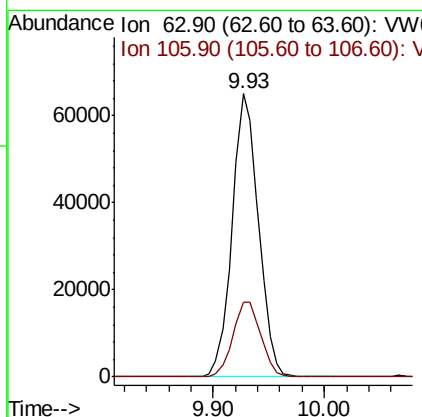
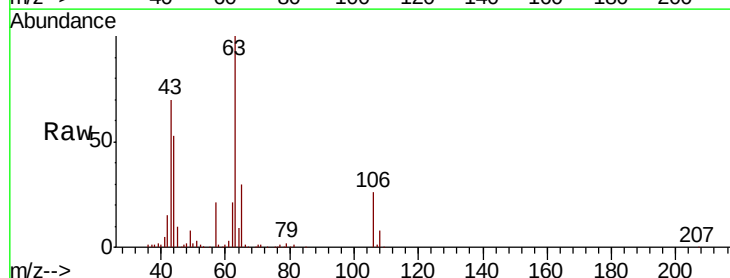
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

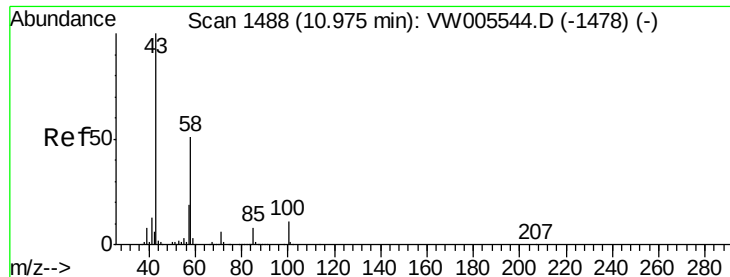
Tgt Ion: 76 Resp: 68023  
 Ion Ratio Lower Upper  
 76 100  
 78 32.9 25.6 38.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 103.558 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 63 Resp: 106190  
 Ion Ratio Lower Upper  
 63 100  
 106 28.1 21.6 32.4

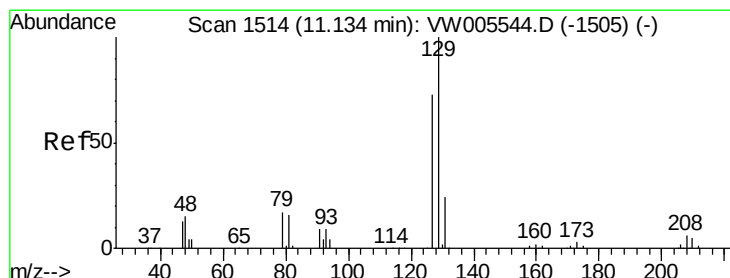
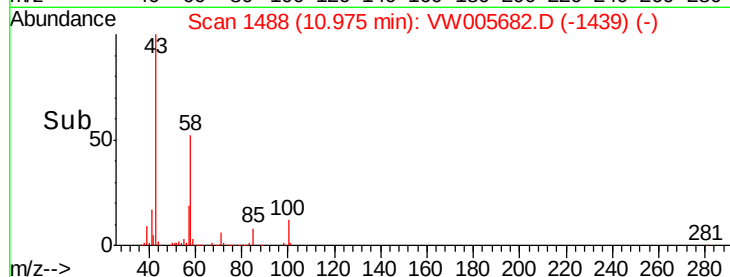
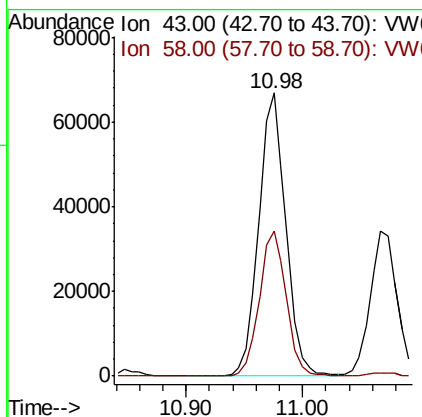
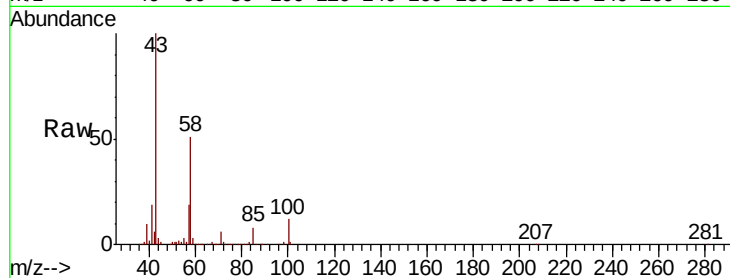




#59  
2-Hexanone  
Concen: 103.271 ug/l  
RT: 10.98 min Scan# 1488  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

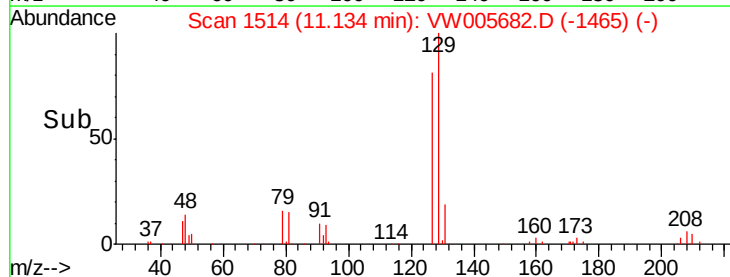
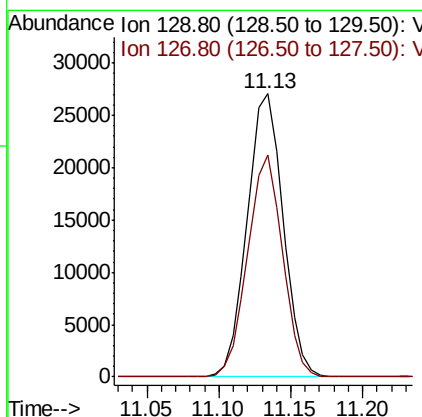
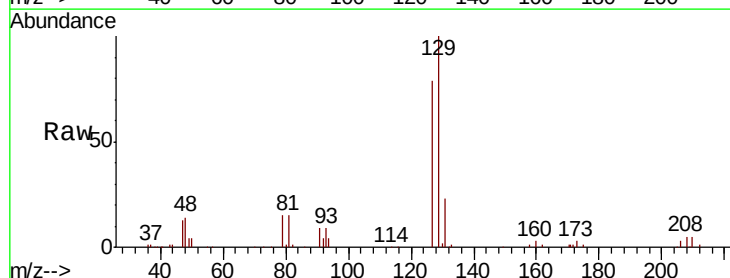
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

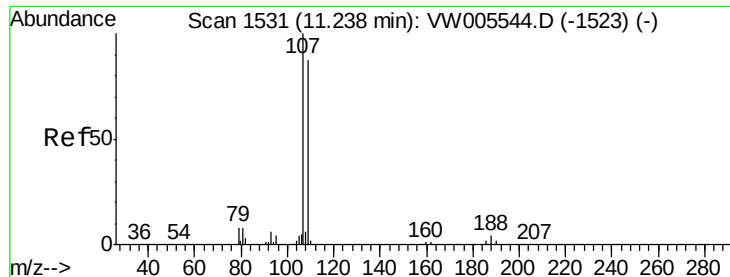
Tgt Ion: 43 Resp: 108360  
Ion Ratio Lower Upper  
43 100  
58 50.8 25.3 75.9



#60  
Dibromochloromethane  
Concen: 21.152 ug/l  
RT: 11.13 min Scan# 1514  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 129 Resp: 46833  
Ion Ratio Lower Upper  
129 100  
127 75.8 38.5 115.5

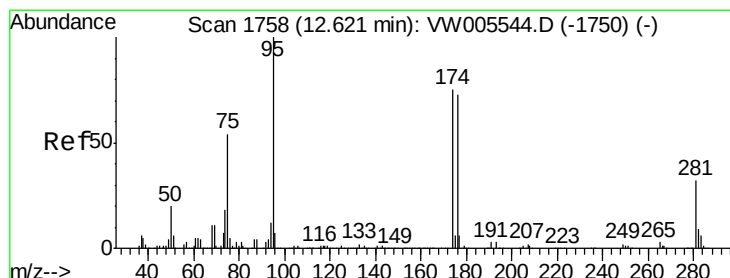
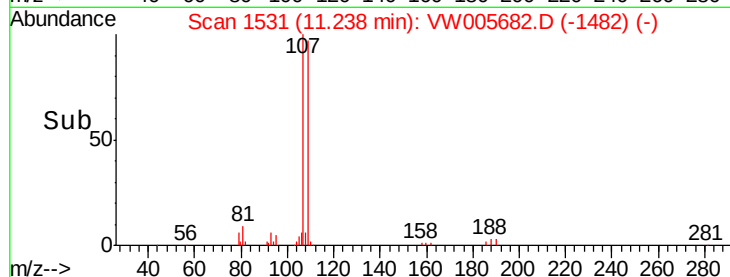
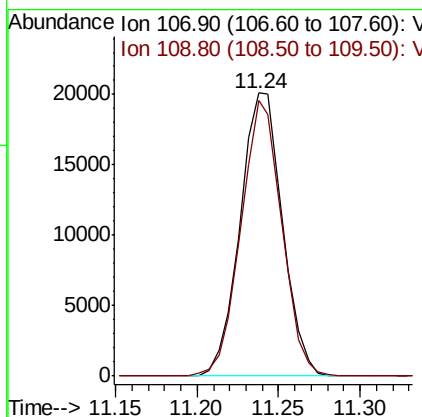
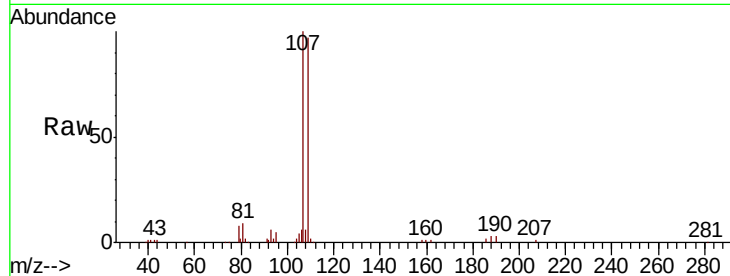




#61  
 1,2-Dibromoethane  
 Concen: 21.217 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

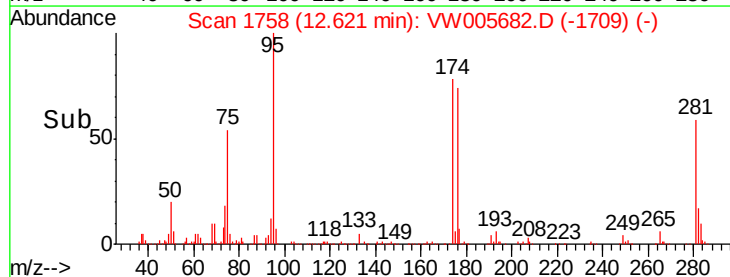
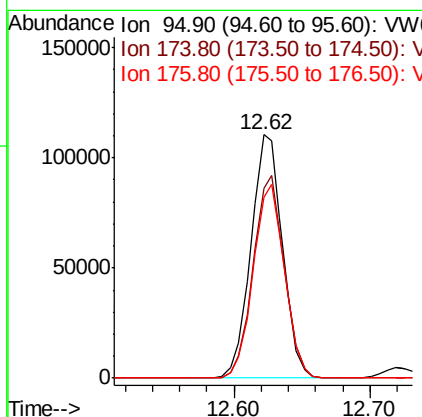
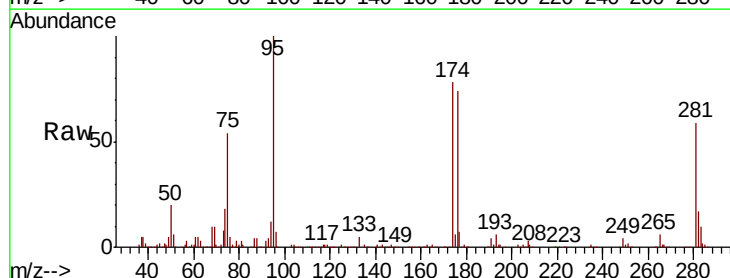
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

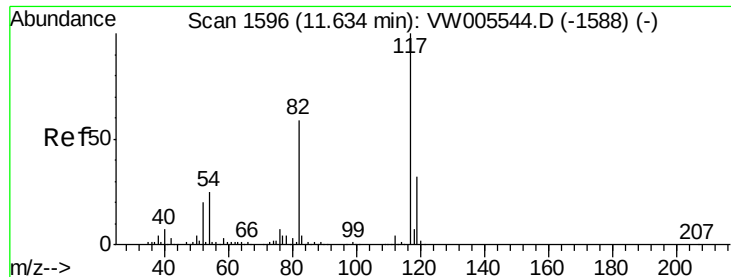
Tgt Ion: 107 Resp: 36250  
 Ion Ratio Lower Upper  
 107 100  
 109 94.0 73.4 110.0



#62  
 4-Bromofluorobenzene  
 Concen: 51.476 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 95 Resp: 179579  
 Ion Ratio Lower Upper  
 95 100  
 174 82.1 0.0 163.8  
 176 79.2 0.0 158.0

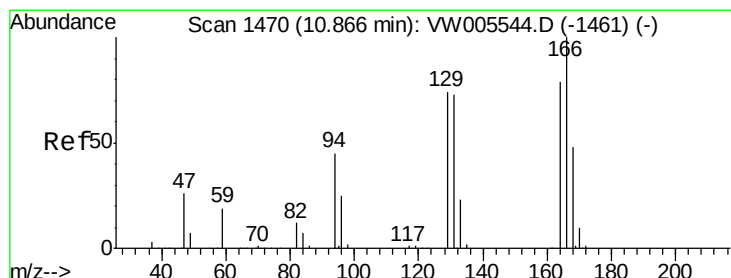
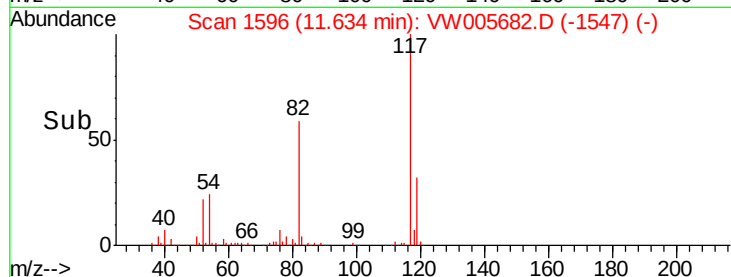
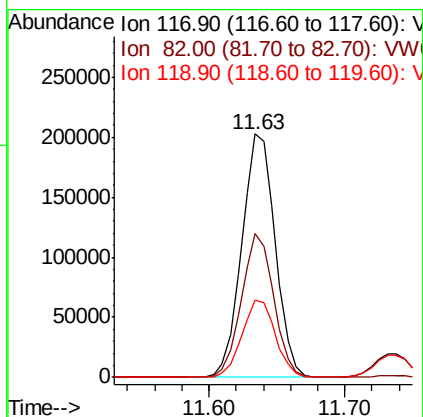
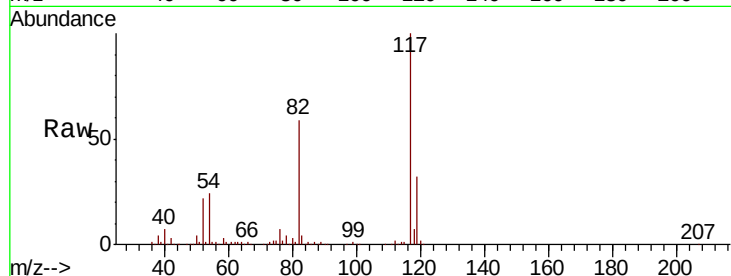




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

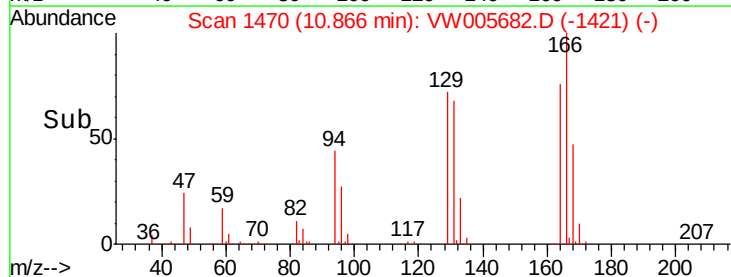
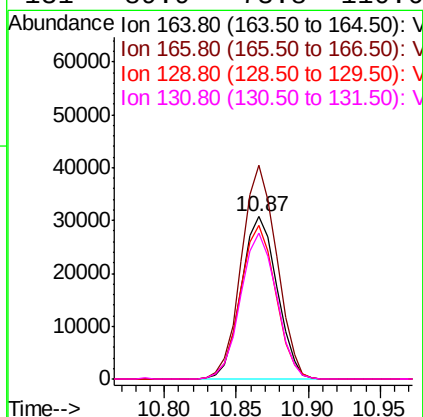
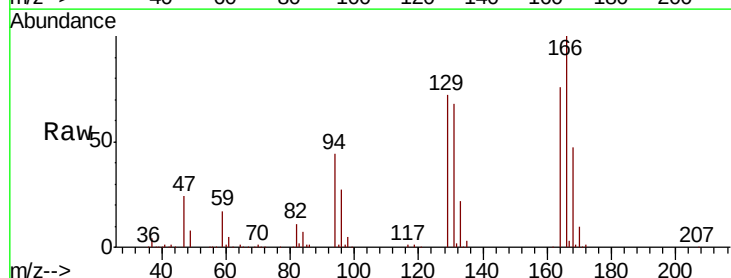
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

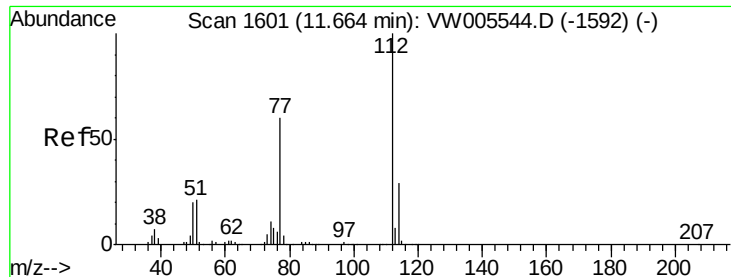
Tgt Ion:117 Resp: 347692  
Ion Ratio Lower Upper  
117 100  
82 59.0 46.9 70.3  
119 31.7 25.7 38.5



#64  
Tetrachloroethene  
Concen: 21.486 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion:164 Resp: 53021  
Ion Ratio Lower Upper  
164 100  
166 131.5 101.1 151.7  
129 94.5 74.4 111.6  
131 89.9 73.8 110.6





#65

Chlorobenzene

Concen: 20.639 ug/l

RT: 11.66 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

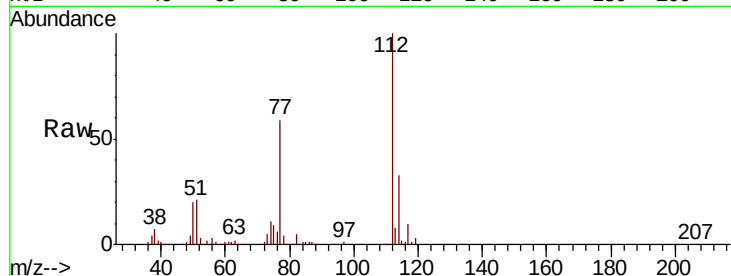
VW092618SBS02

Tgt Ion:112 Resp: 152341

Ion Ratio Lower Upper

112 100

114 32.5 22.9 34.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66

100000

80000

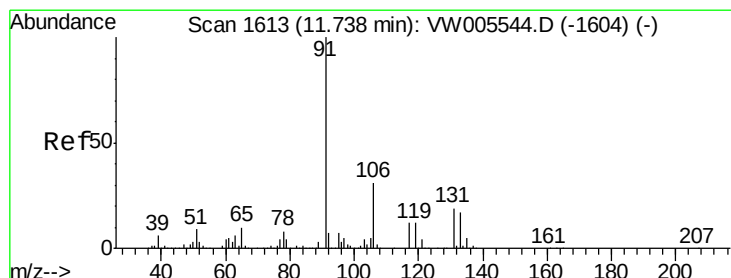
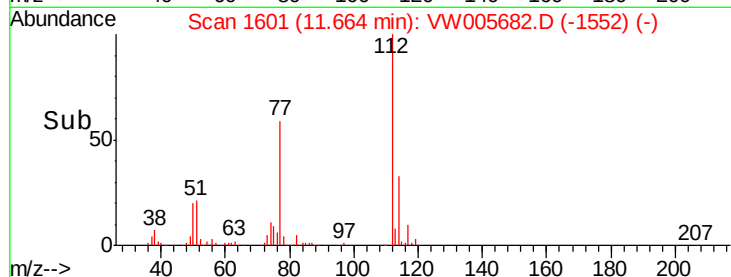
60000

40000

20000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.963 ug/l

RT: 11.74 min Scan# 1613

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

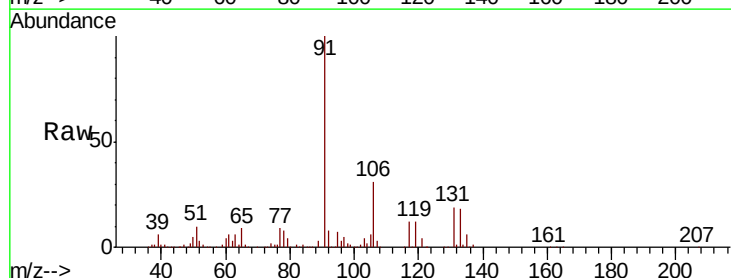
Tgt Ion:131 Resp: 53031

Ion Ratio Lower Upper

131 100

133 97.4 47.2 141.6

119 63.4 31.1 93.2



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

80000

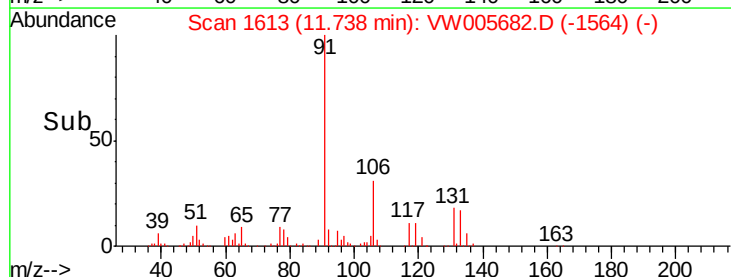
60000

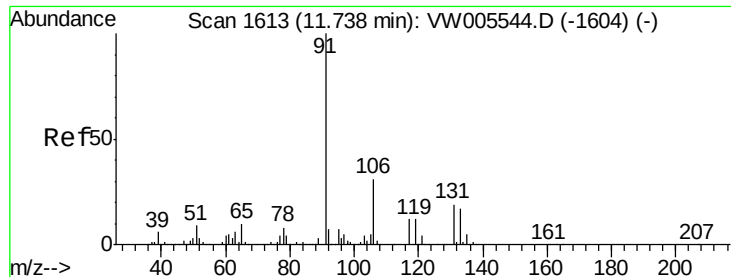
40000

20000

0

Time-->

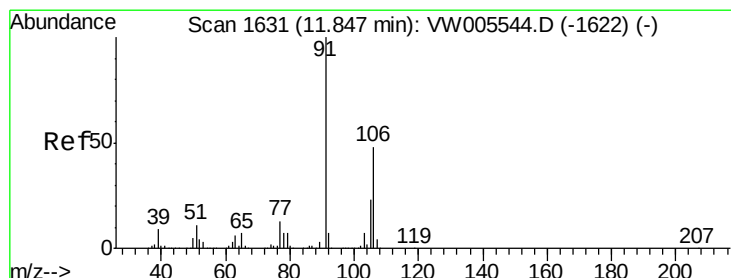
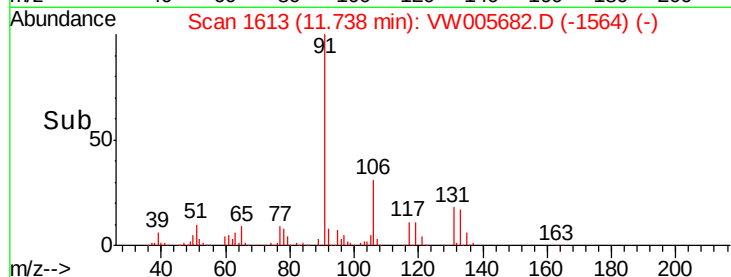
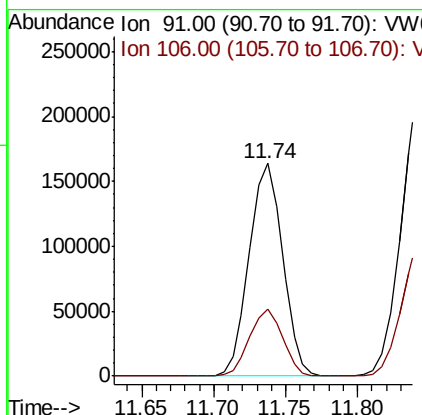
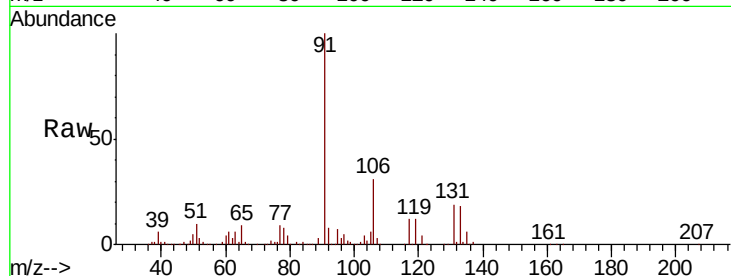




#67  
Ethyl Benzene  
Concen: 20.195 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

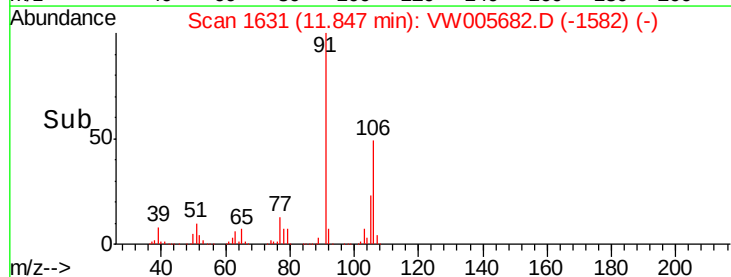
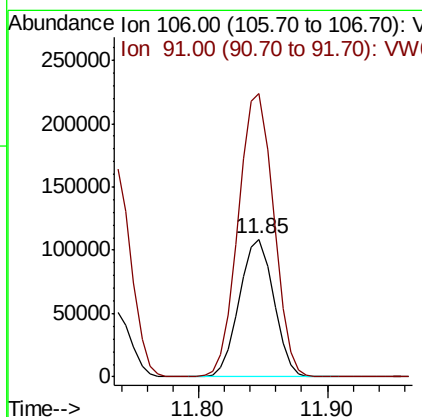
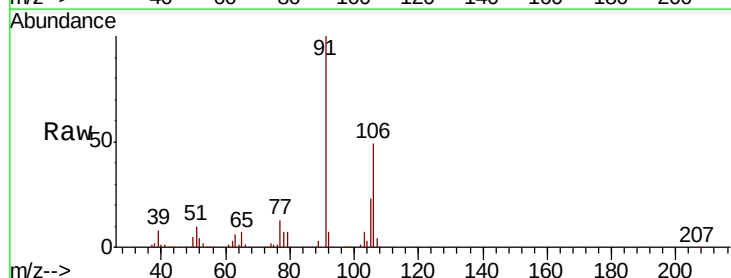
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

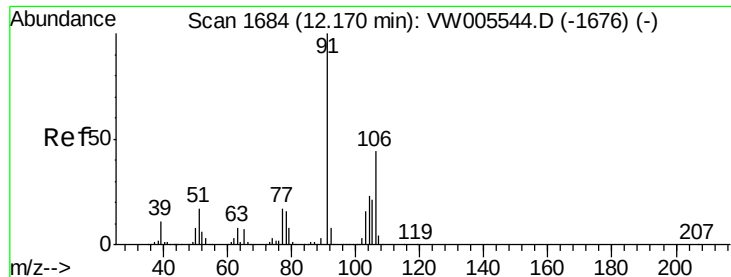
Tgt Ion: 91 Resp: 264579  
Ion Ratio Lower Upper  
91 100  
106 31.4 24.4 36.6



#68  
m/p-Xylenes  
Concen: 40.837 ug/l  
RT: 11.85 min Scan# 1631  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion: 106 Resp: 202135  
Ion Ratio Lower Upper  
106 100  
91 210.7 167.8 251.8

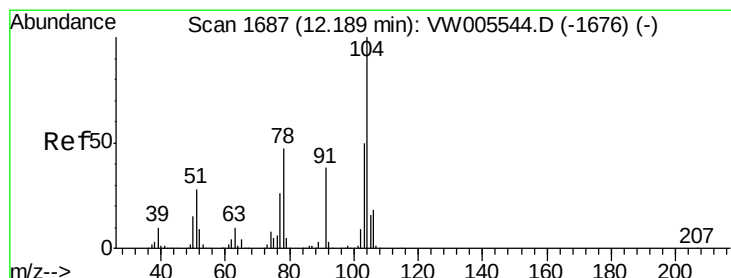
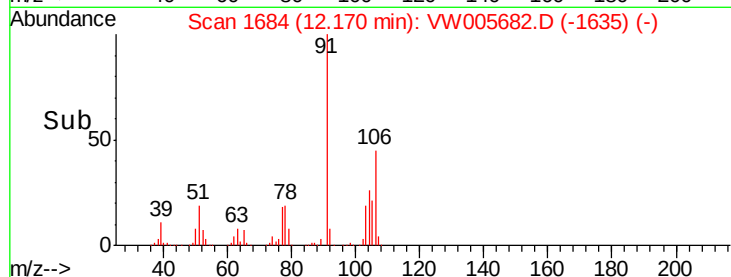
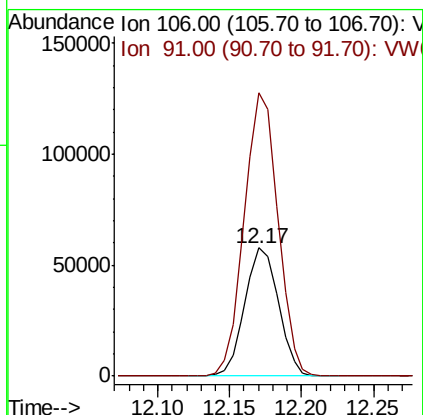
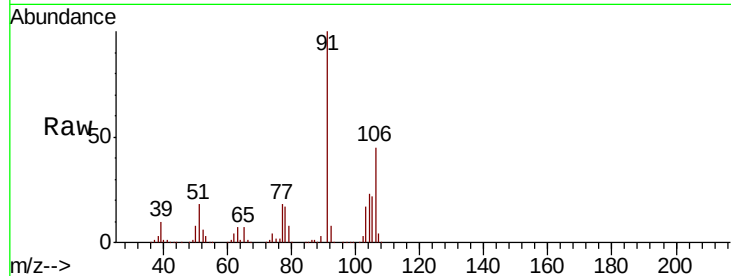




#69  
o-Xylene  
Concen: 20.336 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

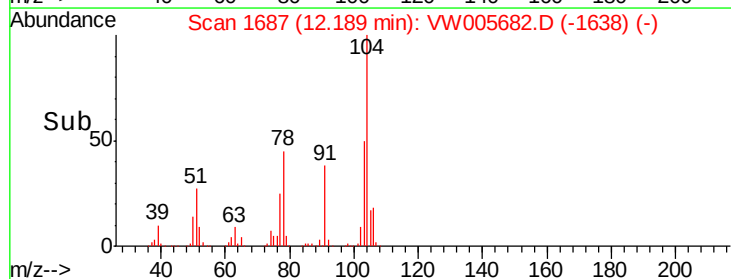
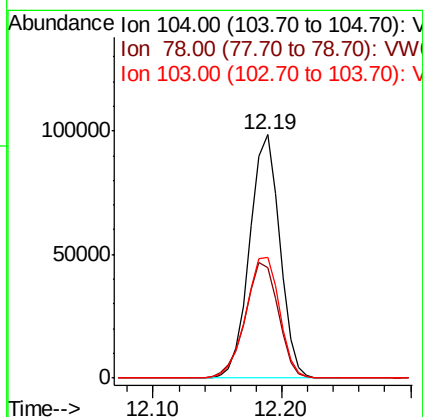
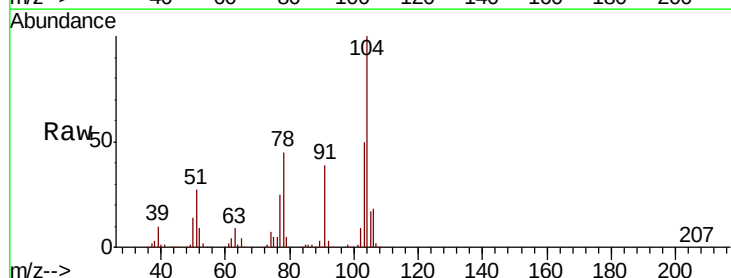
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

Tgt Ion:106 Resp: 94270  
Ion Ratio Lower Upper  
106 100  
91 220.4 111.0 333.0

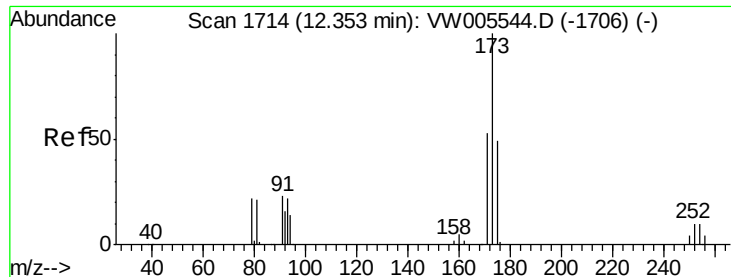


#70  
Styrene  
Concen: 20.347 ug/l  
RT: 12.19 min Scan# 1687  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion:104 Resp: 158734  
Ion Ratio Lower Upper  
104 100  
78 52.5 42.2 63.4  
103 55.8 44.6 66.8







#71

Bromoform

Concen: 20.173 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

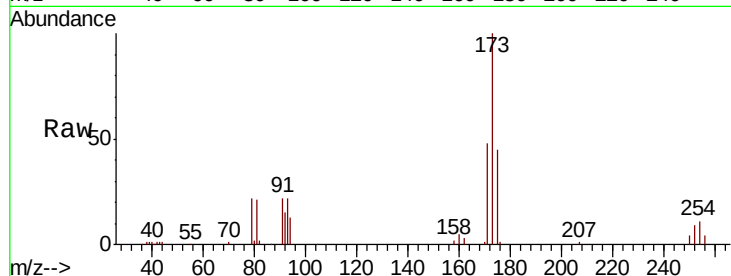
Tgt Ion:173 Resp: 28446

Ion Ratio Lower Upper

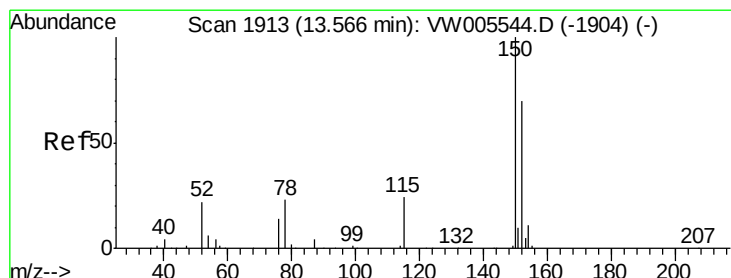
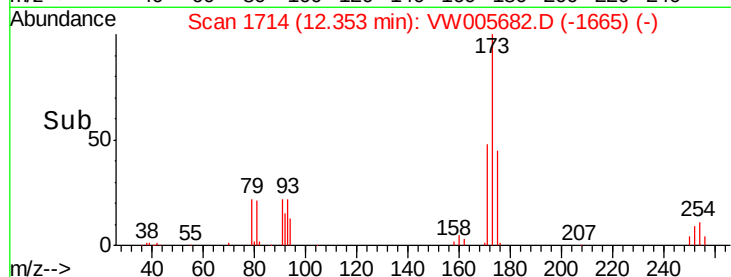
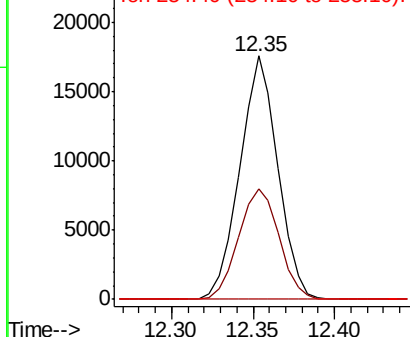
173 100

175 48.5 24.3 72.9

254 0.0 0.1 0.1#



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: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

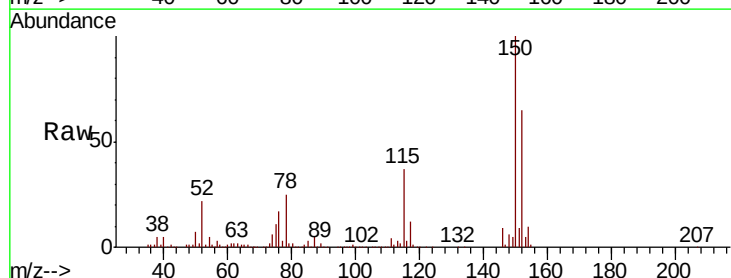
Tgt Ion:152 Resp: 186868

Ion Ratio Lower Upper

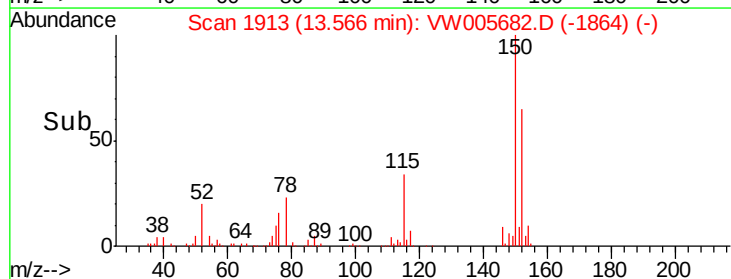
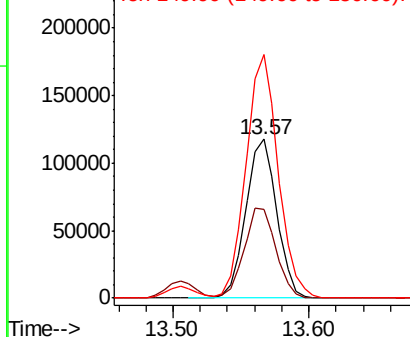
152 100

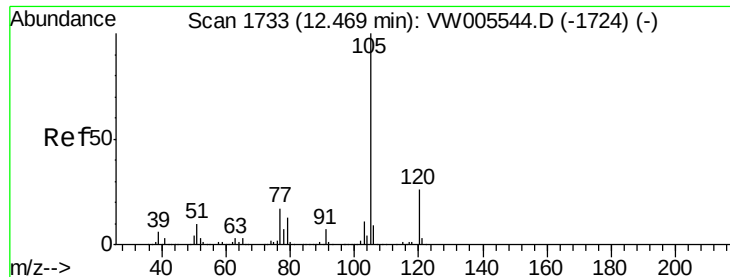
115 58.4 30.0 90.0

150 159.7 0.0 348.6



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: 20.551 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

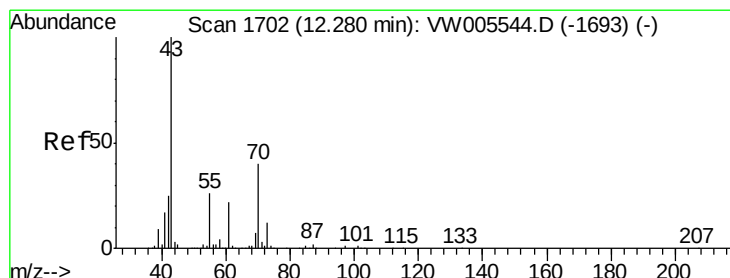
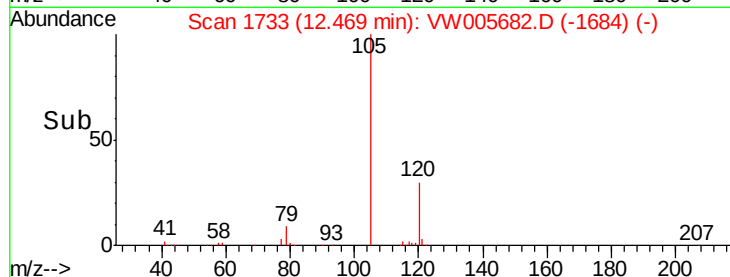
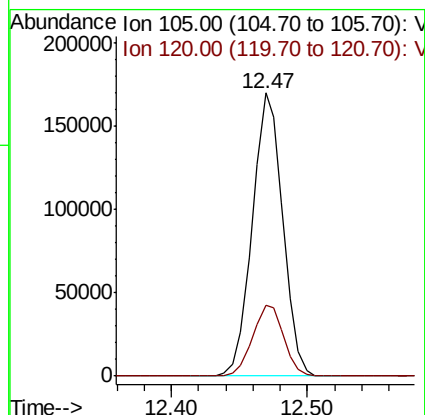
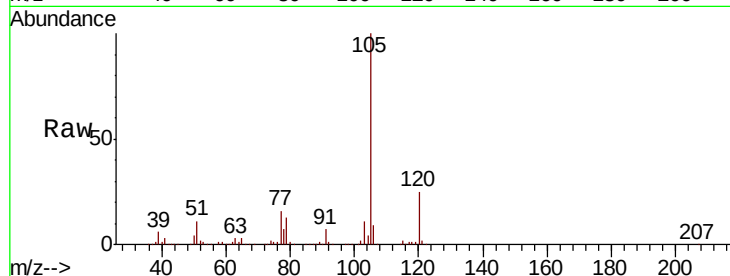
VW092618SBS02

Tgt Ion:105 Resp: 266318

Ion Ratio Lower Upper

105 100

120 25.6 12.9 38.7



#74

N-ethyl acetate

Concen: 20.384 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Tgt Ion: 43 Resp: 59815

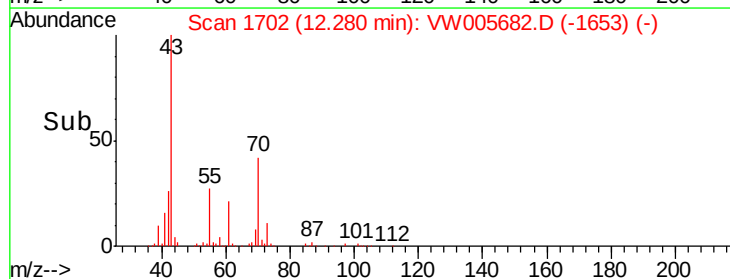
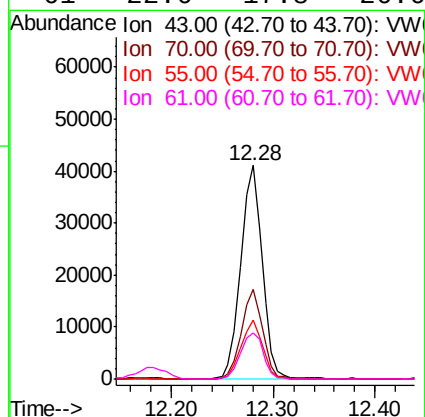
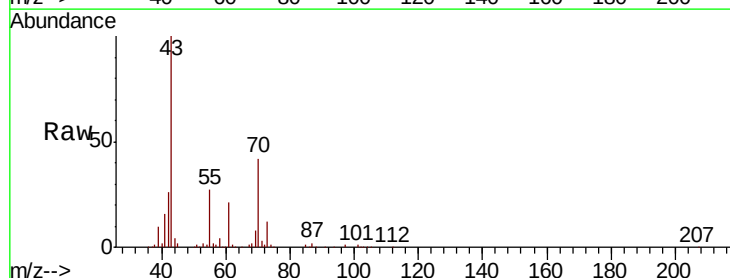
Ion Ratio Lower Upper

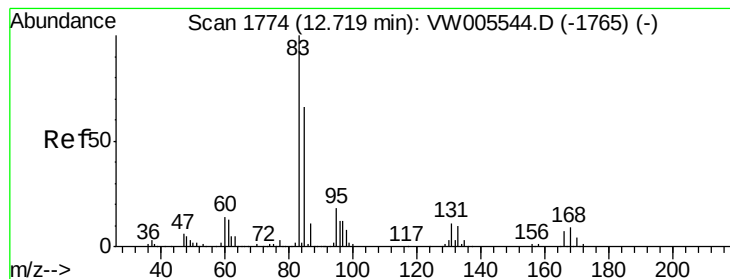
43 100

70 41.3 31.4 47.0

55 27.6 20.9 31.3

61 22.6 17.8 26.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.277 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

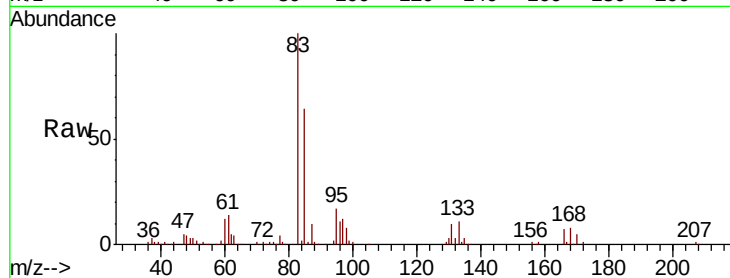
Tgt Ion: 83 Resp: 45798

Ion Ratio Lower Upper

83 100

131 11.1 5.5 16.7

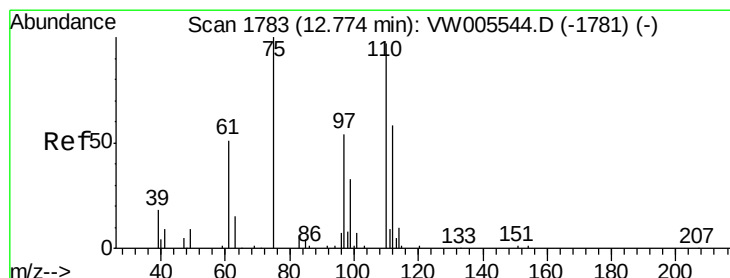
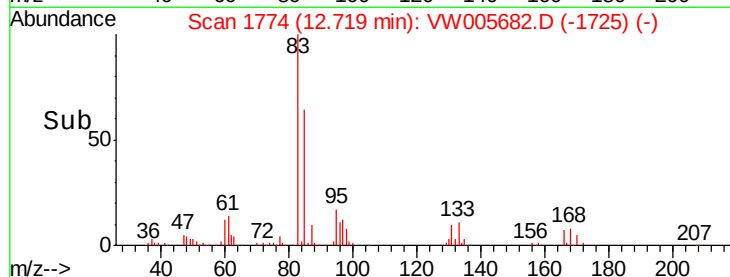
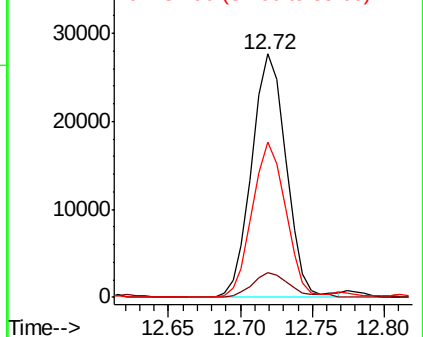
85 61.8 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 38.846 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW005682.D

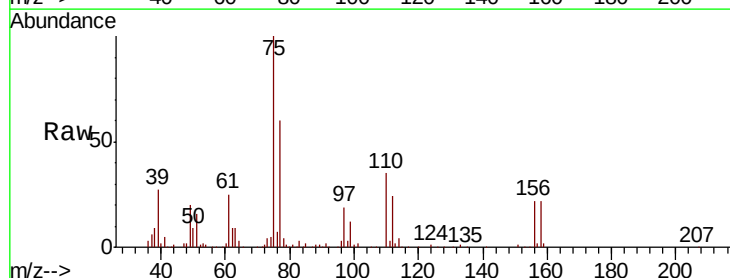
Acq: 27 Sep 2018 05:45

Tgt Ion: 75 Resp: 61878

Ion Ratio Lower Upper

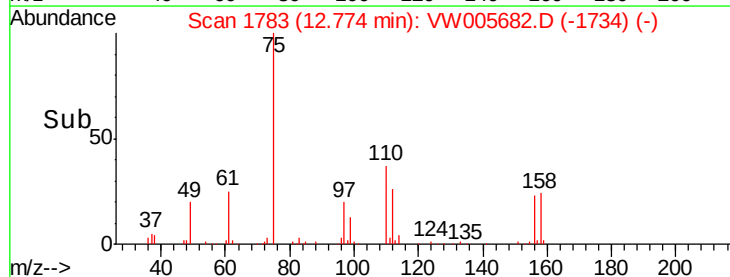
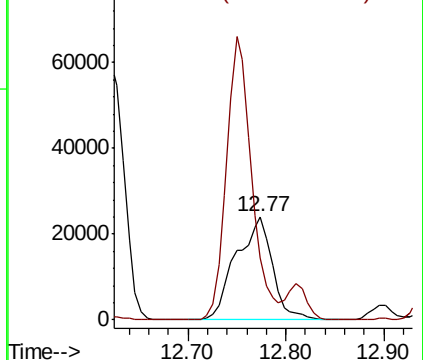
75 100

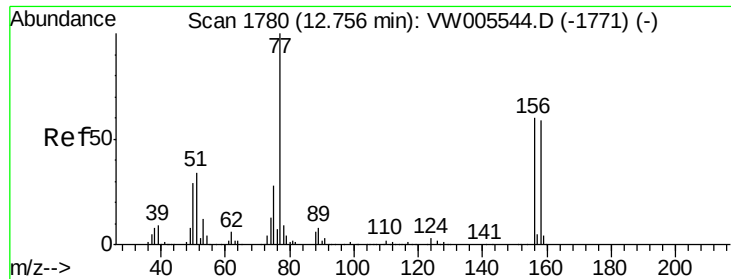
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.580 ug/l

RT: 12.76 min Scan# 1780

Delta R.T. 0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

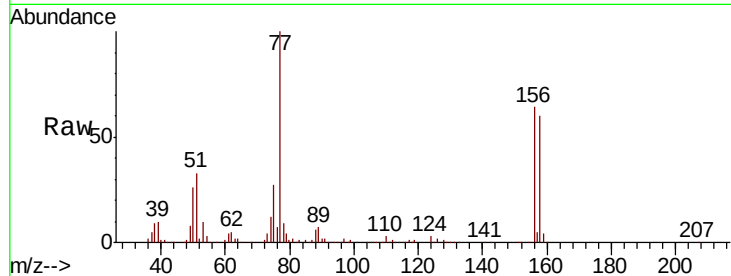
Tgt Ion:156 Resp: 62506

Ion Ratio Lower Upper

156 100

77 189.8 94.7 284.1

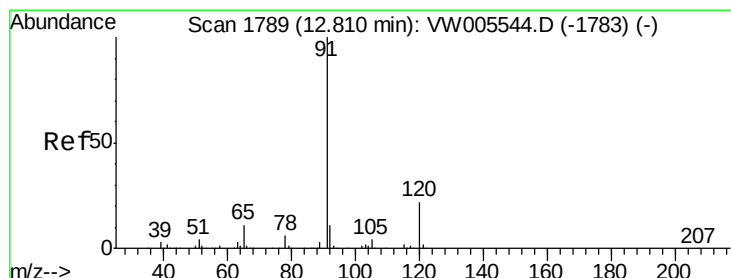
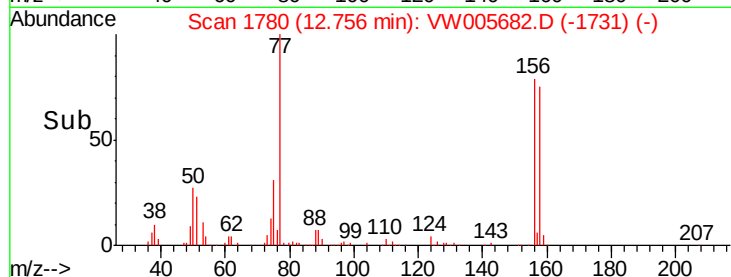
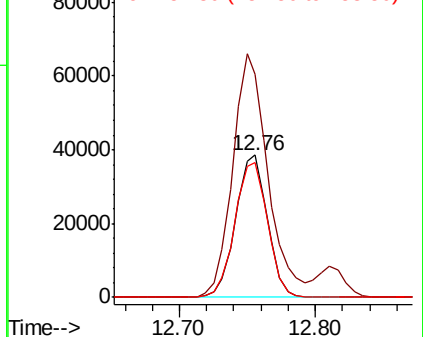
158 98.1 48.0 144.2



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: 20.667 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW005682.D

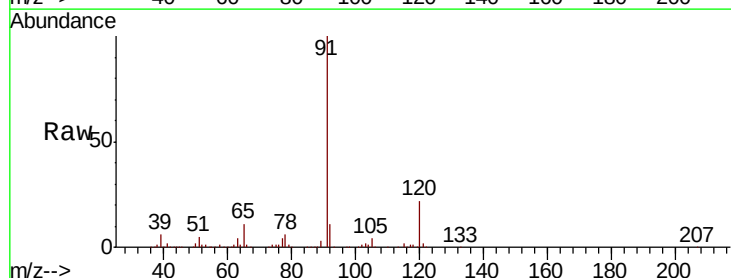
Acq: 27 Sep 2018 05:45

Tgt Ion: 91 Resp: 324246

Ion Ratio Lower Upper

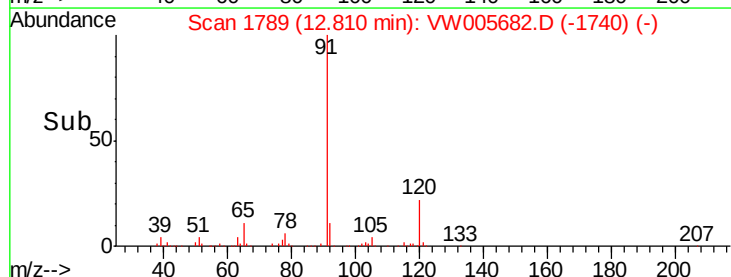
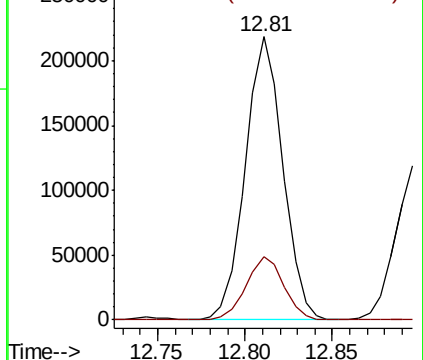
91 100

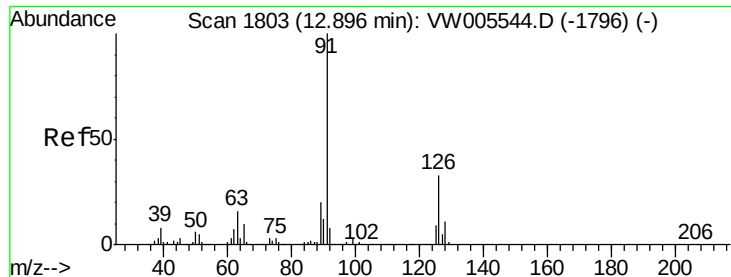
120 22.4 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.766 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

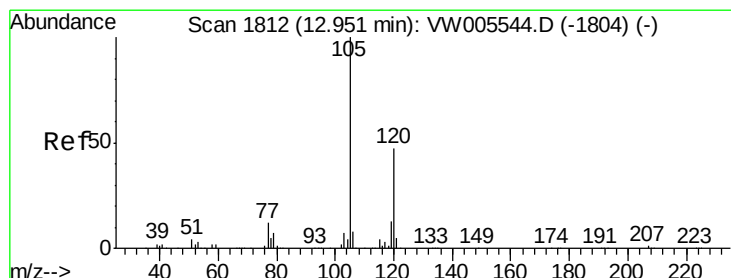
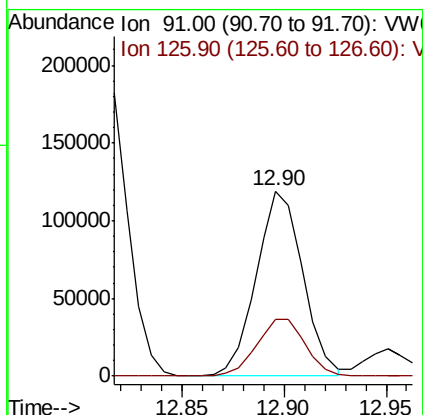
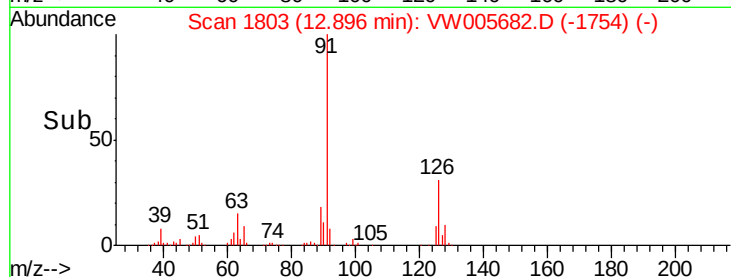
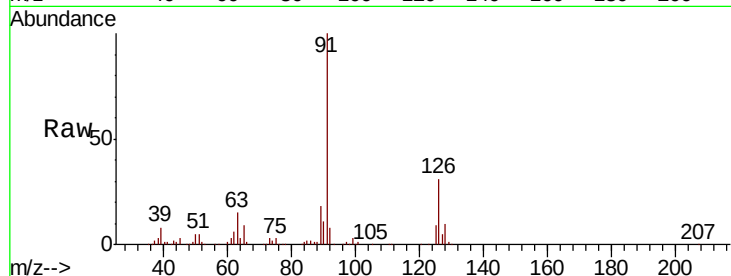
VW092618SBS02

Tgt Ion: 91 Resp: 188497

Ion Ratio Lower Upper

91 100

126 32.3 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 20.897 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005682.D

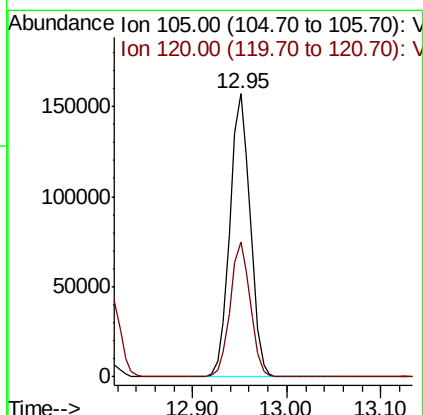
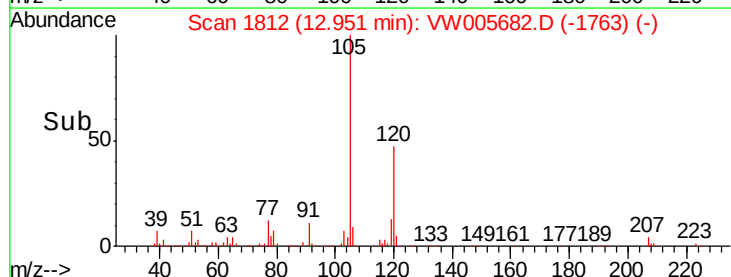
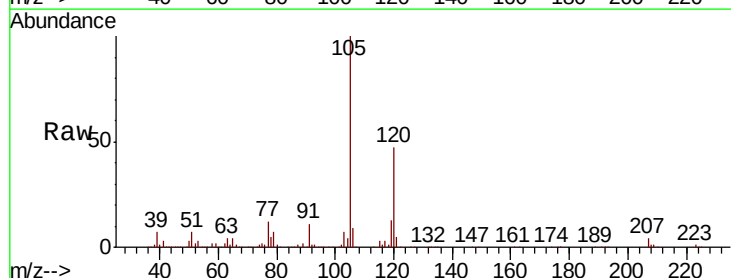
Acq: 27 Sep 2018 05:45

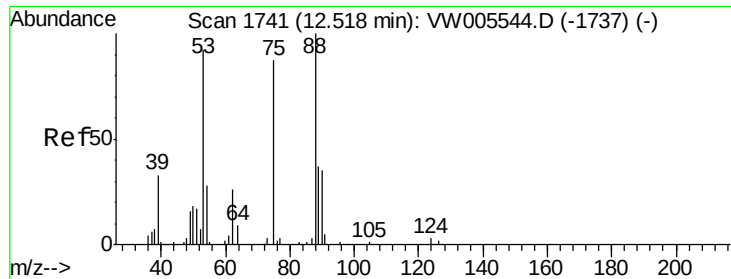
Tgt Ion: 105 Resp: 235475

Ion Ratio Lower Upper

105 100

120 47.0 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.607 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

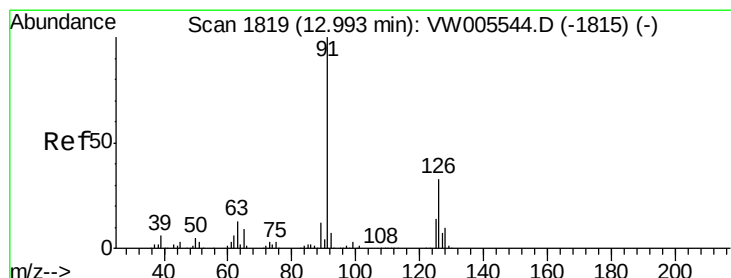
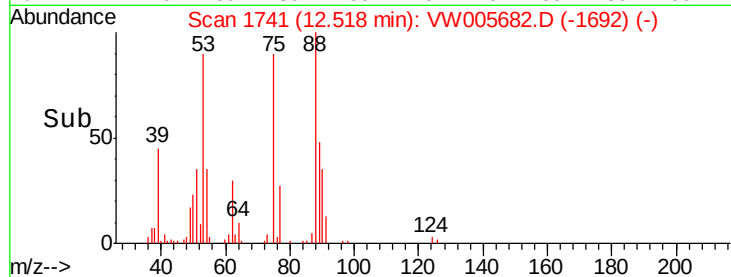
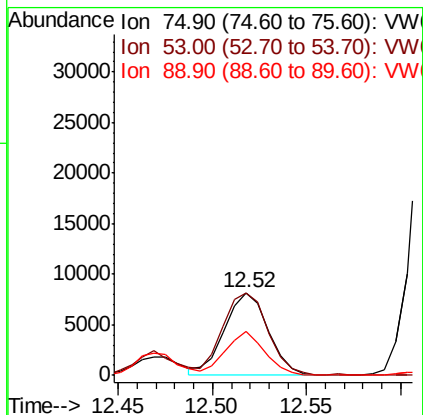
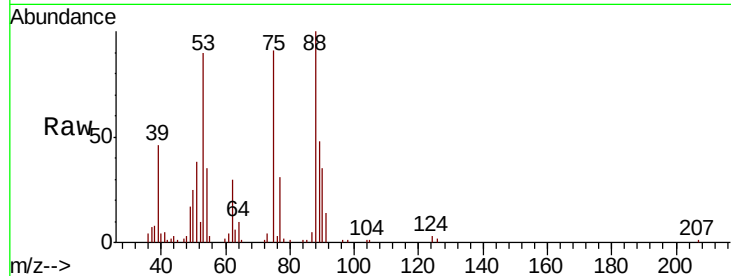
Tgt Ion: 75 Resp: 13160

Ion Ratio Lower Upper

75 100

53 102.3 85.8 128.6

89 47.5 37.3 55.9



#82

4-Chlorotoluene

Concen: 20.671 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW005682.D

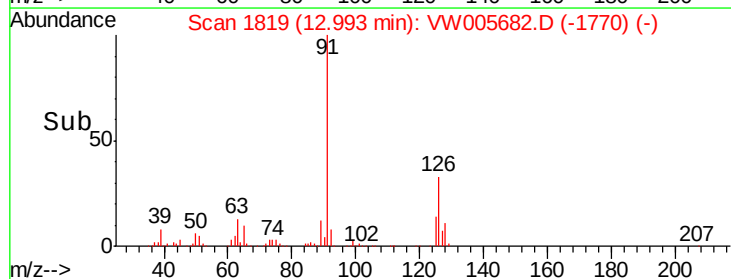
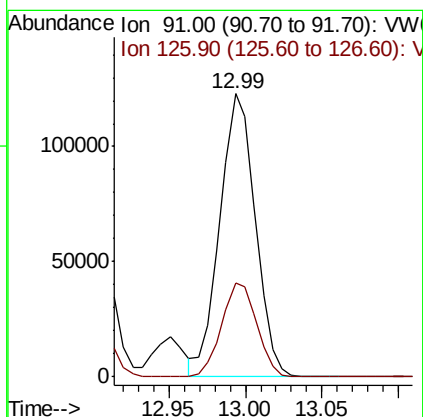
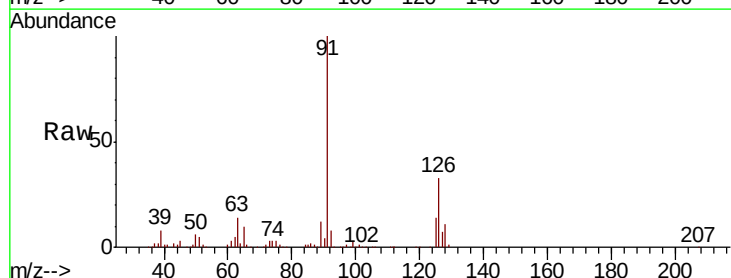
Acq: 27 Sep 2018 05:45

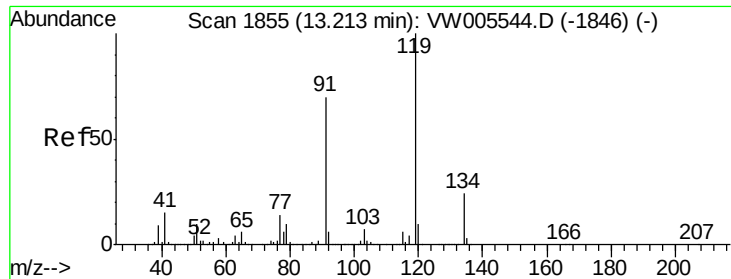
Tgt Ion: 91 Resp: 198251

Ion Ratio Lower Upper

91 100

126 32.9 16.4 49.4

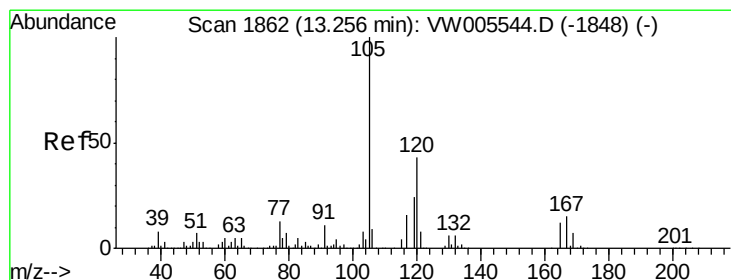
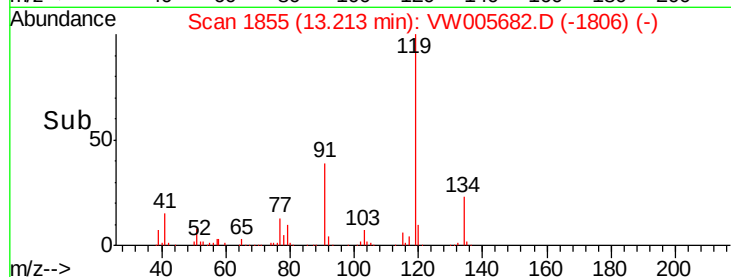
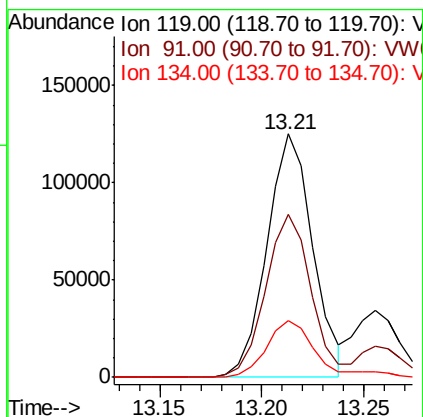
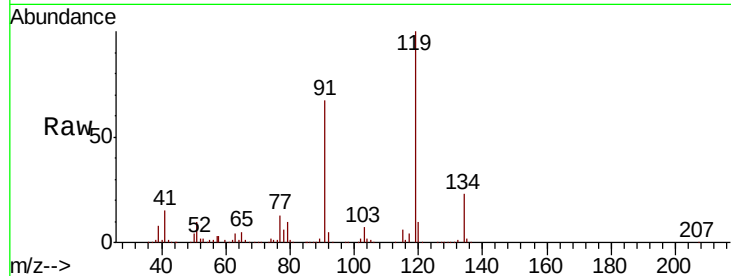




#83  
 tert-Butylbenzene  
 Concen: 20.641 ug/l  
 RT: 13.21 min Scan# 1855  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

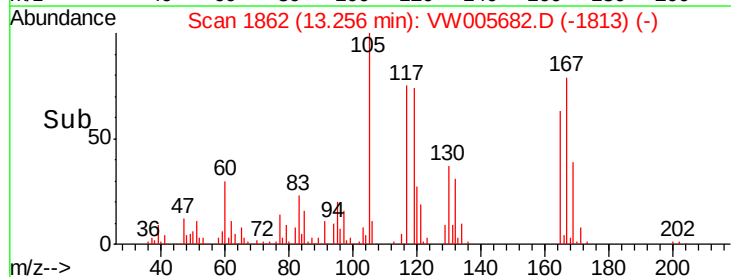
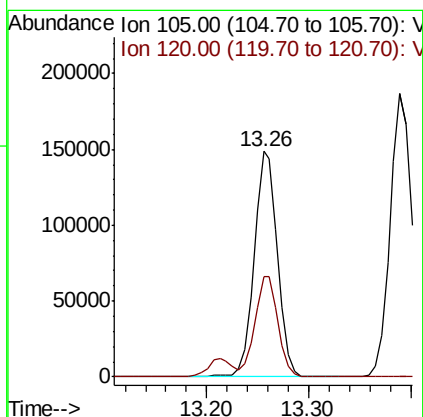
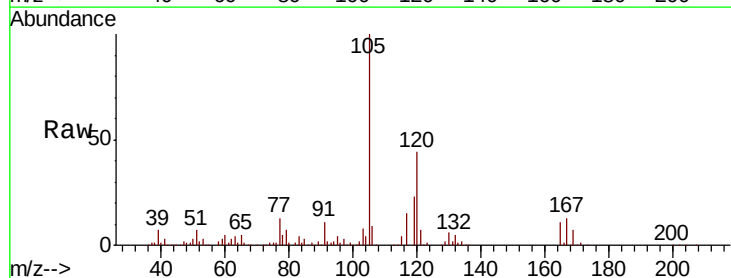
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

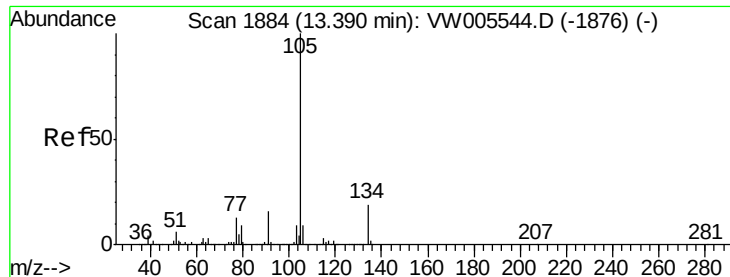
Tgt Ion:119 Resp: 195400  
 Ion Ratio Lower Upper  
 119 100  
 91 66.0 34.6 103.8  
 134 25.2 12.6 37.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.798 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion:105 Resp: 236496  
 Ion Ratio Lower Upper  
 105 100  
 120 43.8 21.5 64.5

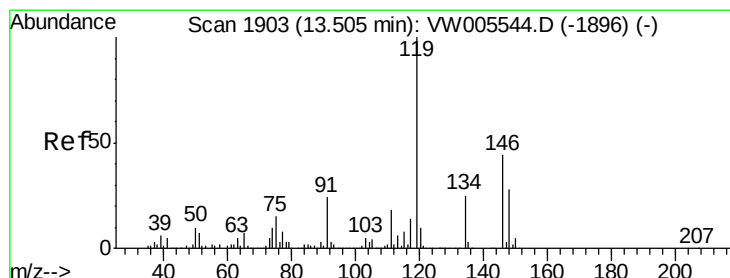
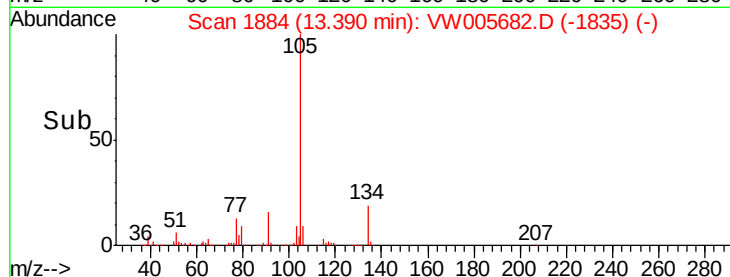
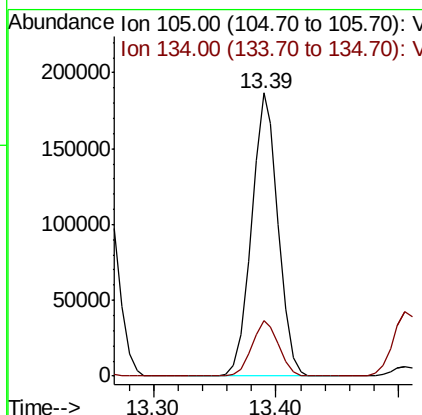
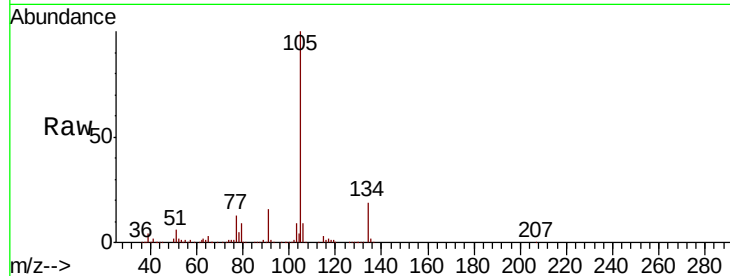




#85  
 sec-Butylbenzene  
 Concen: 20.461 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

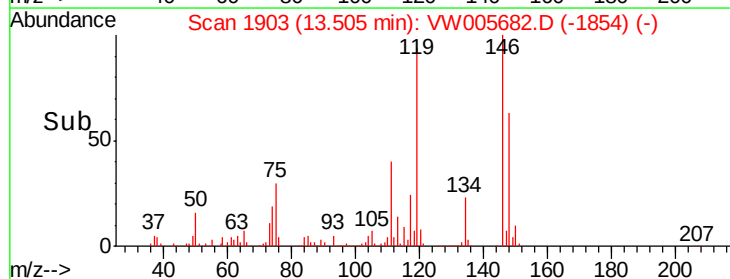
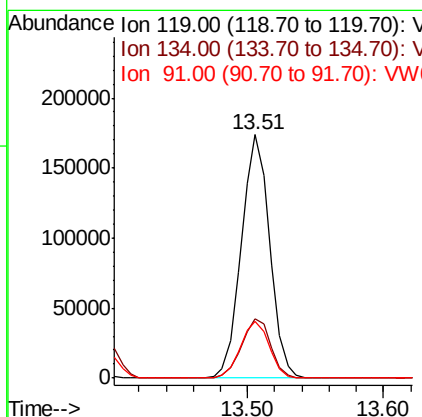
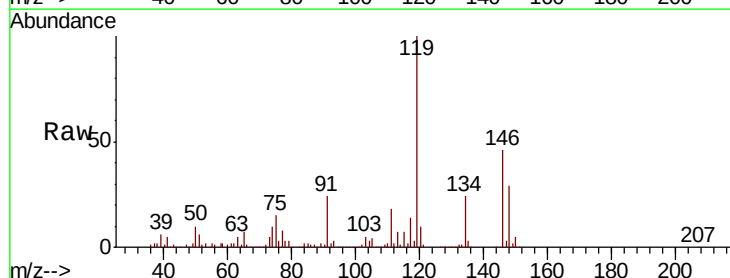
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

Tgt Ion:105 Resp: 280930  
 Ion Ratio Lower Upper  
 105 100  
 134 19.7 9.8 29.5

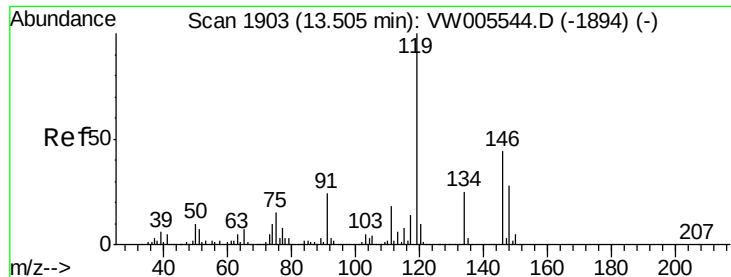


#86  
 p-Isopropyltoluene  
 Concen: 20.534 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion:119 Resp: 252697  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 12.7 38.1  
 91 23.7 12.2 36.4



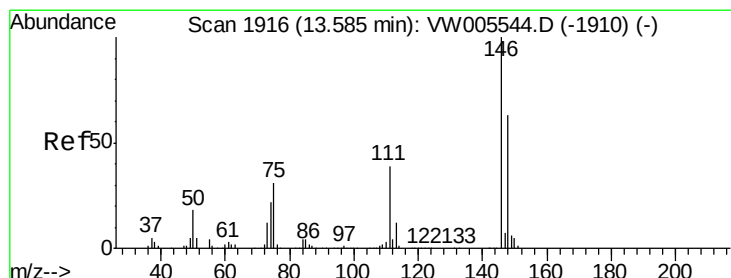
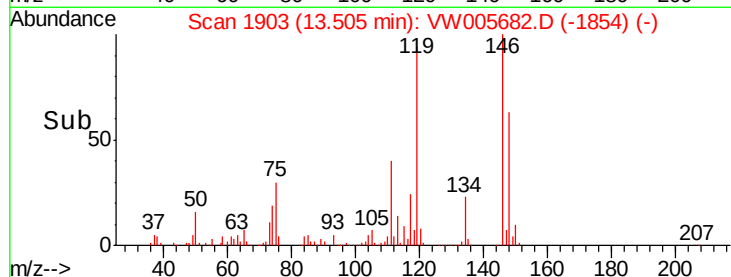
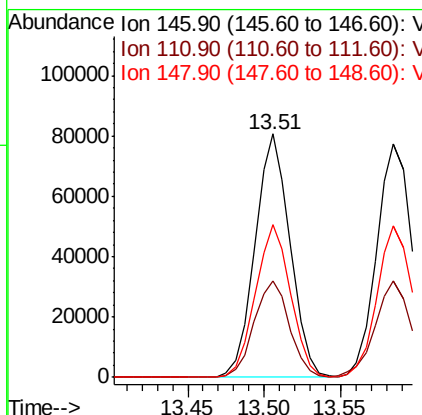
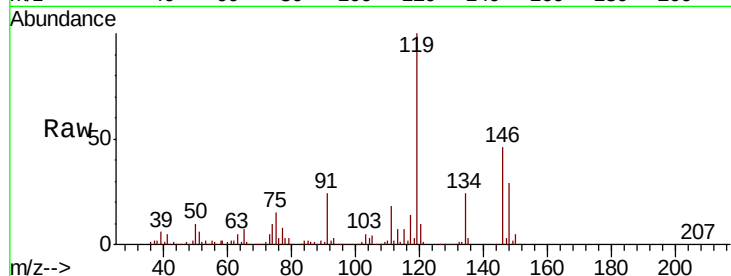




#87  
 1,3-Dichlorobenzene  
 Concen: 20.623 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

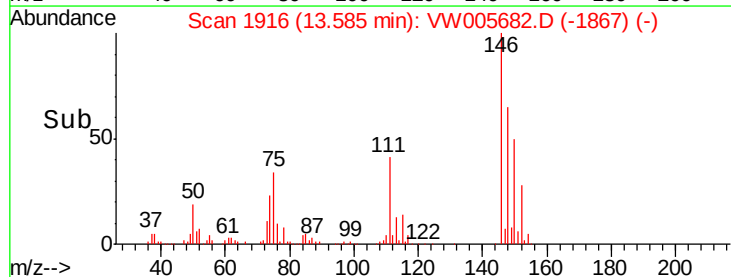
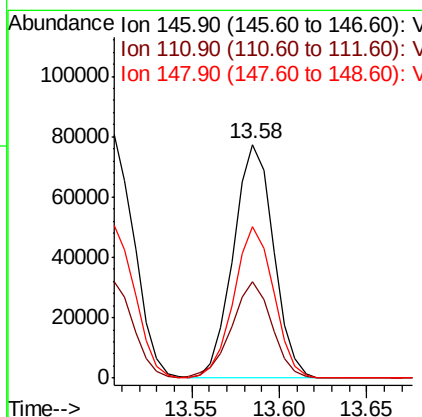
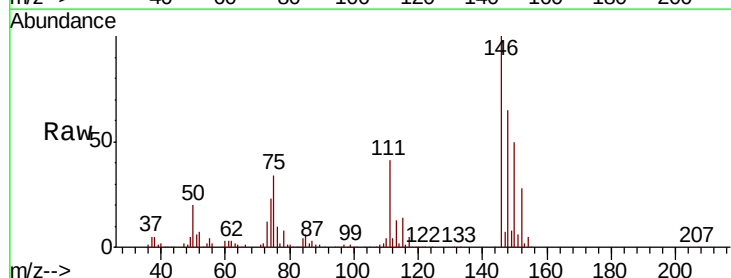
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

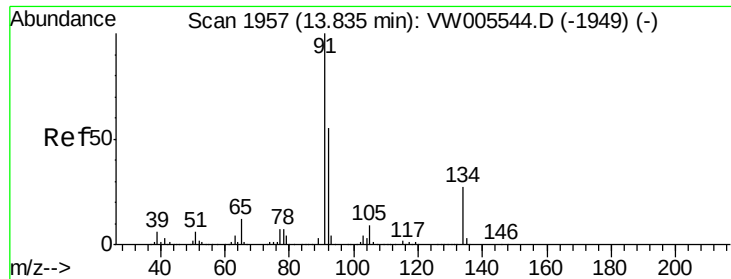
Tgt Ion:146 Resp: 128082  
 Ion Ratio Lower Upper  
 146 100  
 111 40.2 20.3 60.9  
 148 63.0 31.8 95.4



#88  
 1,4-Dichlorobenzene  
 Concen: 20.117 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion:146 Resp: 124259  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 19.9 59.7  
 148 64.4 32.1 96.3





#89

n-Butylbenzene

Concen: 20.063 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.01 min

Lab File: VW005682.D

Acq: 27 Sep 2018 05:45

Instrument :

MSVOA\_W

ClientSampleId :

VW092618SBS02

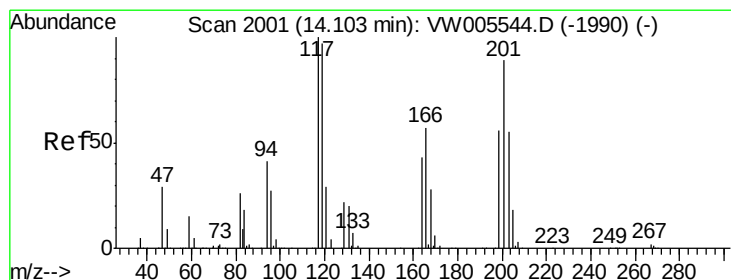
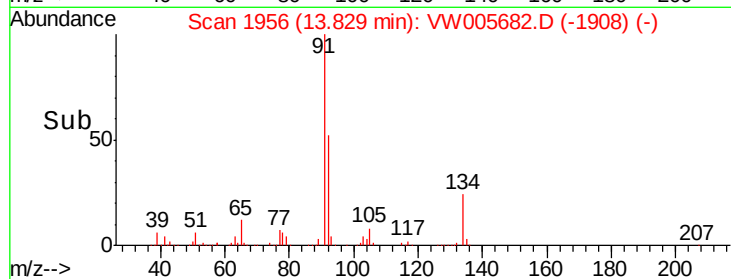
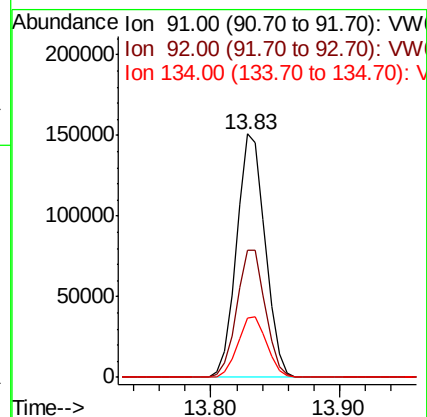
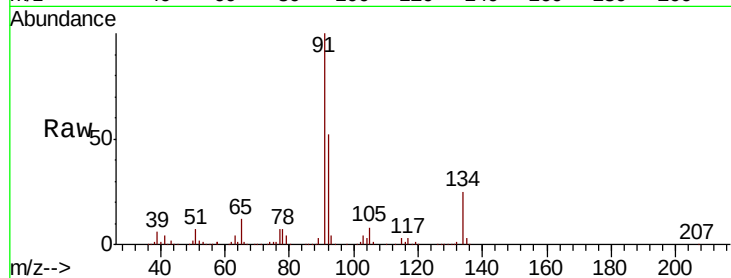
Tgt Ion: 91 Resp: 232883

Ion Ratio Lower Upper

91 100

92 52.3 26.5 79.5

134 25.1 12.9 38.7



#90

Hexachloroethane

Concen: 20.164 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005682.D

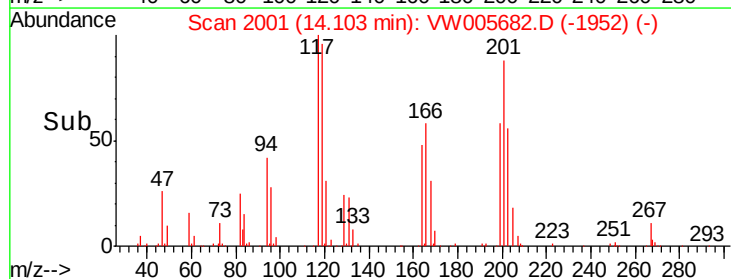
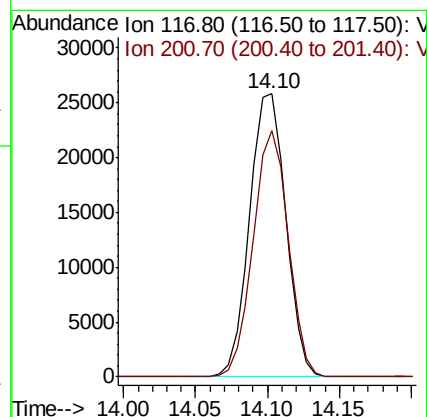
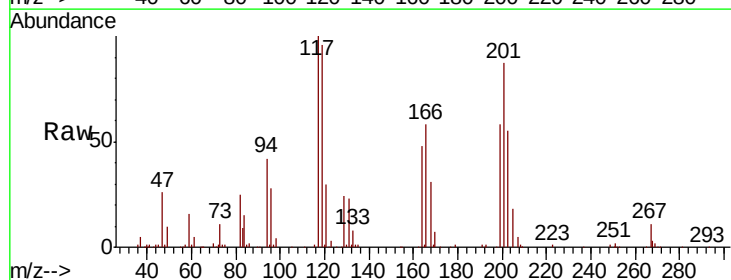
Acq: 27 Sep 2018 05:45

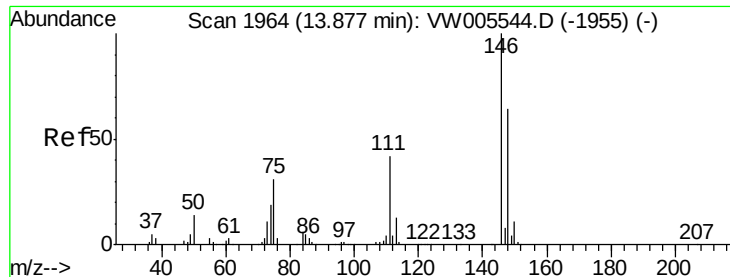
Tgt Ion: 117 Resp: 44975

Ion Ratio Lower Upper

117 100

201 84.1 42.8 128.3

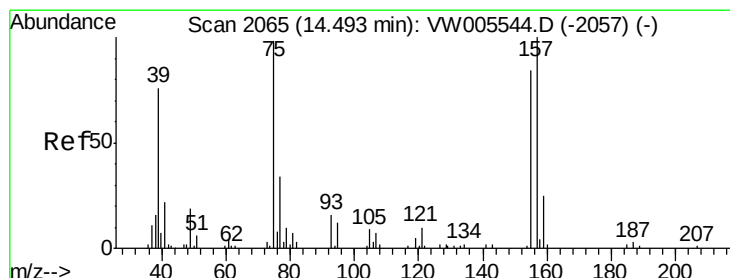
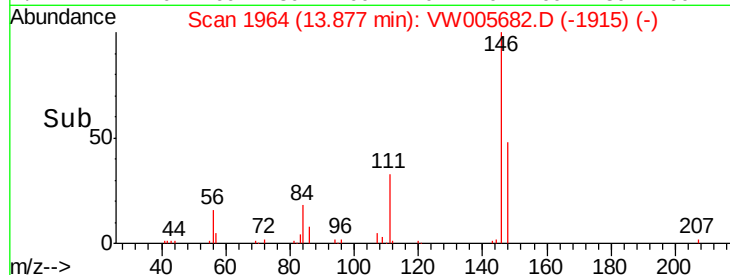
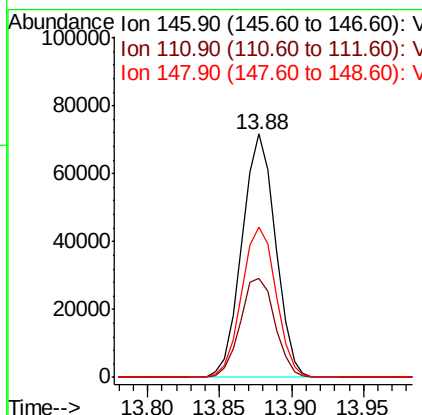
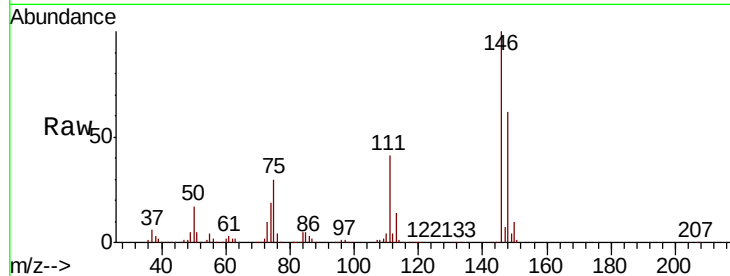




#91  
 1,2-Dichlorobenzene  
 Concen: 21.087 ug/l  
 RT: 13.88 min Scan# 1964  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

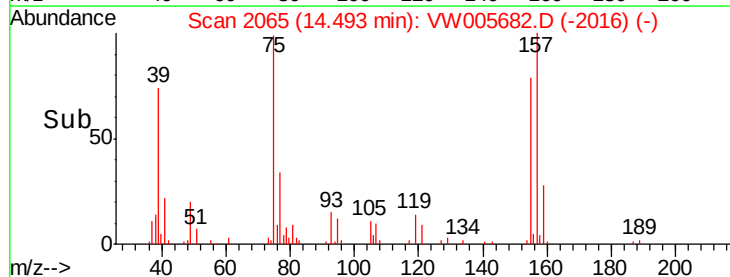
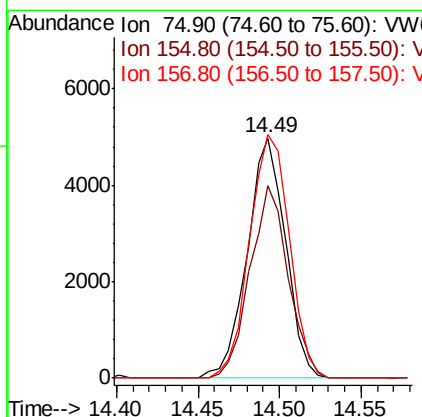
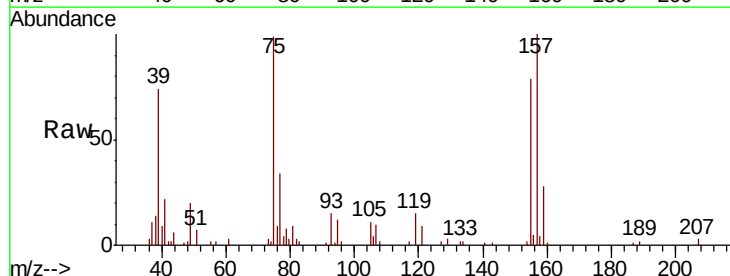
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

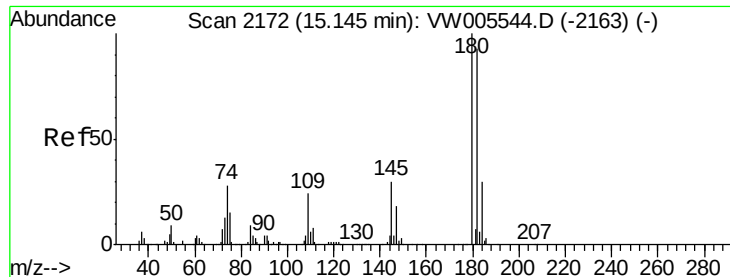
Tgt Ion:146 Resp: 115608  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 21.3 63.9  
 148 63.2 32.0 96.2



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.771 ug/l  
 RT: 14.49 min Scan# 2065  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion: 75 Resp: 8108  
 Ion Ratio Lower Upper  
 75 100  
 155 79.9 39.1 117.5  
 157 105.7 50.8 152.4

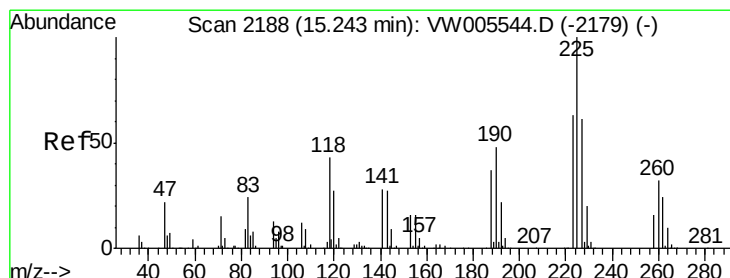
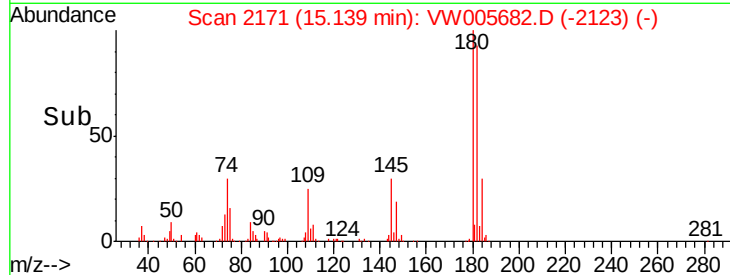
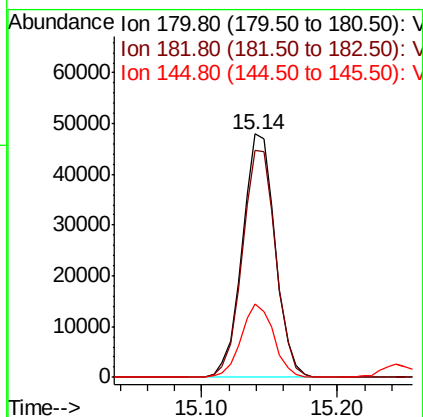
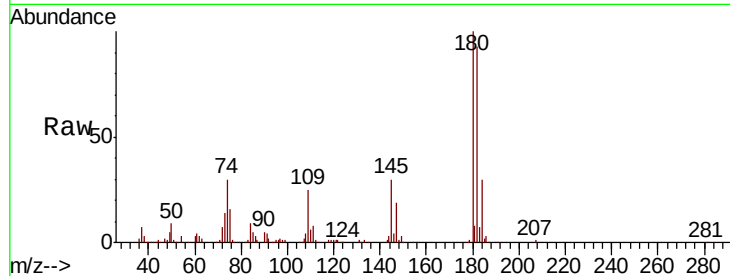




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.672 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.01 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

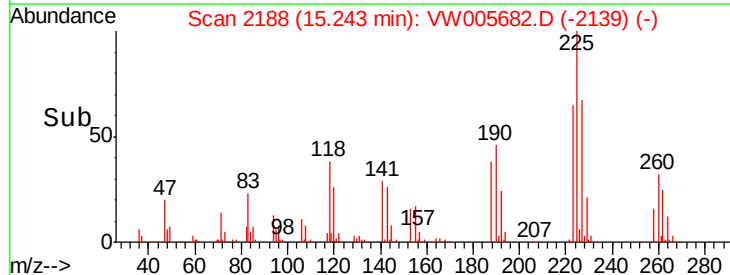
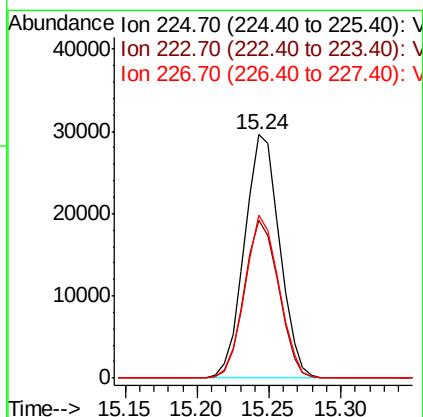
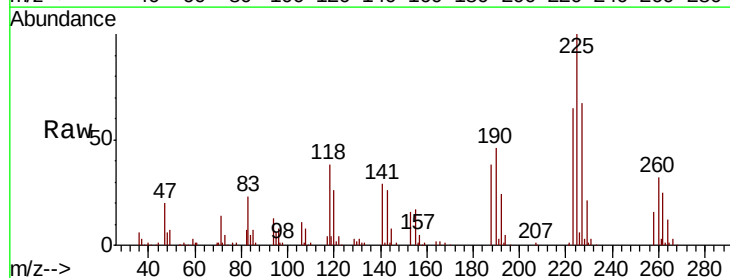
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW092618SBS02

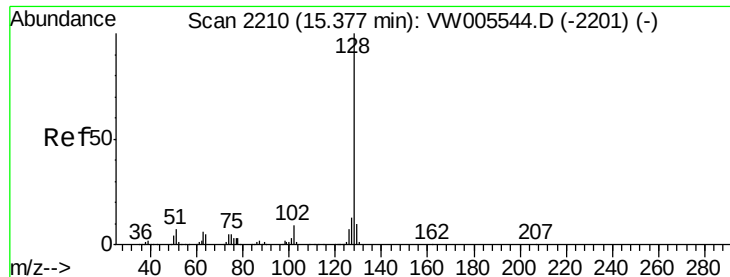
Tgt Ion:180 Resp: 80846  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 47.7 143.1  
 145 30.0 15.0 45.1



#94  
 Hexachlorobutadiene  
 Concen: 19.682 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. 0.00 min  
 Lab File: VW005682.D  
 Acq: 27 Sep 2018 05:45

Tgt Ion:225 Resp: 49869  
 Ion Ratio Lower Upper  
 225 100  
 223 63.6 31.1 93.3  
 227 65.1 31.8 95.3

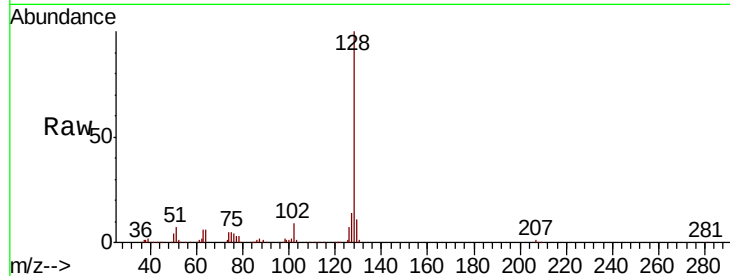




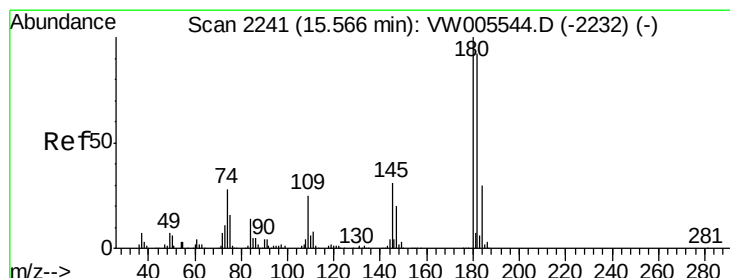
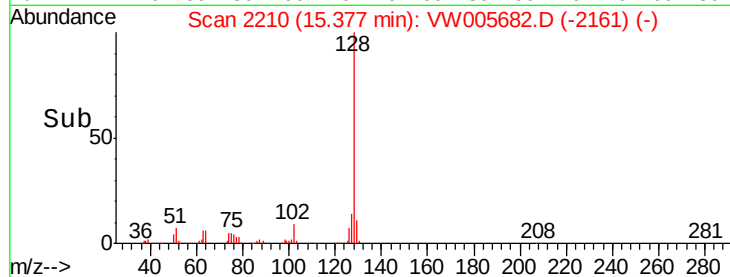
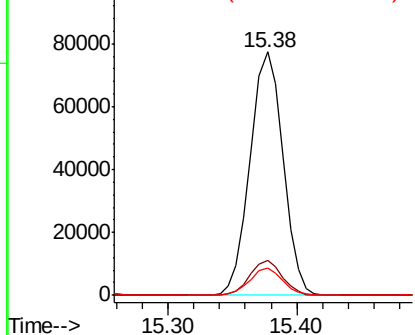
#95  
Naphthalene  
Concen: 20.845 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW092618SBS02

Tgt Ion:128 Resp: 137128  
Ion Ratio Lower Upper  
128 100  
127 14.1 10.9 16.3  
129 11.2 8.6 13.0

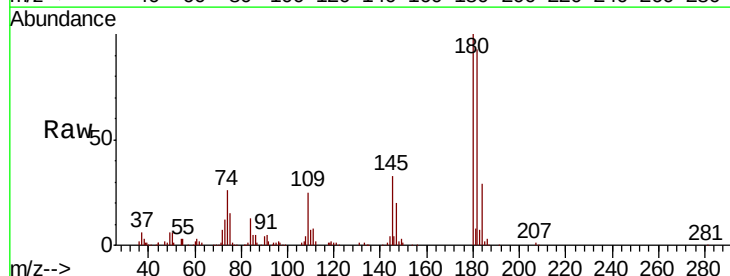


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 20.921 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. -0.00 min  
Lab File: VW005682.D  
Acq: 27 Sep 2018 05:45

Tgt Ion:180 Resp: 72106  
Ion Ratio Lower Upper  
180 100  
182 95.1 47.3 141.9  
145 32.9 16.0 47.9



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

