

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082018\  
 Data File : VW004786.D  
 Acq On : 20 Aug 2018 13:11  
 Operator : SY/AP  
 Sample : VW0820SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 20 14:26:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 666317   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 980711   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 868060   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 473901   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 282165   | 43.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.60%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 305741   | 48.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.56%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 1246118  | 50.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.86% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 425334   | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 89393    | 20.254 | ug/l  | 96     |
| 3) Chloromethane              | 2.21 | 50   | 113805   | 19.721 | ug/l  | 98     |
| 4) Vinyl Chloride             | 2.37 | 62   | 180861   | 21.292 | ug/l  | 99     |
| 5) Bromomethane               | 2.78 | 94   | 111830   | 21.317 | ug/l  | 96     |
| 6) Chloroethane               | 2.93 | 64   | 107730   | 21.019 | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 97438    | 24.350 | ug/l  | 99     |
| 8) Diethyl Ether              | 3.68 | 74   | 66985    | 18.514 | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 146791   | 21.303 | ug/l  | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 218262   | 20.857 | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.22 | 59   | 29420    | 81.745 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 141087   | 20.547 | ug/l  | 98     |
| 13) Acrolein                  | 3.89 | 56   | 43122    | 89.287 | ug/l  | 97     |
| 14) Allyl chloride            | 4.66 | 41   | 204098   | 19.586 | ug/l  | 99     |
| 15) Acrylonitrile             | 5.38 | 53   | 127309   | 83.905 | ug/l  | 100    |
| 16) Acetone                   | 4.14 | 43   | 152720   | 92.869 | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.37 | 76   | 470621   | 20.856 | ug/l  | 99     |
| 18) Methyl Acetate            | 4.68 | 43   | 58046    | 16.472 | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 166974   | 18.733 | ug/l  | 99     |
| 20) Methylene Chloride        | 4.90 | 84   | 173899   | 20.625 | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 145471   | 19.911 | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.31 | 45   | 407602   | 20.351 | ug/l  | 99     |
| 23) Vinyl Acetate             | 6.26 | 43   | 1034980  | 91.358 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 260936   | 20.048 | ug/l  | 100    |
| 25) 2-Butanone                | 7.18 | 43   | 199257   | 85.041 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 168224   | 22.377 | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 159560   | 20.287 | ug/l  | 100    |
| 28) Bromochloromethane        | 7.51 | 49   | 98283    | 17.932 | ug/l  | 97     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 97949    | 81.981 | ug/l  | 98     |
| 30) Chloroform                | 7.68 | 83   | 254514   | 19.883 | ug/l  | 97     |
| 31) Cyclohexane               | 7.96 | 56   | 259186   | 20.588 | ug/l  | 96     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 216213   | 21.308 | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 210403   | 20.826 | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 69383    | 17.228 | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 201259   | 21.641 | ug/l  | 97     |

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 Sample : VW0820SBS01  
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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 20 14:26:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 270976   | 21.447  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 604412   | 20.585  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 42546    | 18.615  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 143564   | 19.068  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 124341   | 17.188  | ug/l   | 97       |
| 44) Trichloroethene            | 9.09  | 130  | 157610   | 21.147  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 143705   | 20.009  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 66961    | 18.819  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 167959   | 19.766  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 61313    | 18.063  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 19397    | 373.138 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 418295   | 85.556  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 375177   | 21.306  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 165894   | 19.377  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 202555   | 19.846  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 98052    | 19.387  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 107039   | 18.214  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 165705   | 18.980  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 271023   | 97.030  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 289360   | 87.349  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 108011   | 19.035  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 90682    | 18.757  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 134053   | 22.596  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 392849   | 21.027  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 132228   | 20.960  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.74 | 91   | 687918   | 21.719  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.85 | 106  | 554692   | 45.014  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 249720   | 21.890  | ug/l   | 96       |
| 70) Styrene                    | 12.19 | 104  | 414706   | 21.642  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 65652    | 19.717  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 708598   | 21.979  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 118011   | 18.392  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 112501   | 18.837  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 145555   | 34.842  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 162853   | 20.869  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 872784   | 22.185  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 493309   | 21.754  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 613851   | 22.412  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 32924    | 18.318  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 519798   | 21.574  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 504912   | 21.552  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 628923   | 22.318  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 766822   | 21.923  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 678709   | 22.301  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 340194   | 21.432  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 332376   | 20.948  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 629625   | 21.398  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 113486   | 20.458  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 298024   | 20.904  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 16755    | 17.950  | ug/l   | 99       |

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Sample : VW0820SBS01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

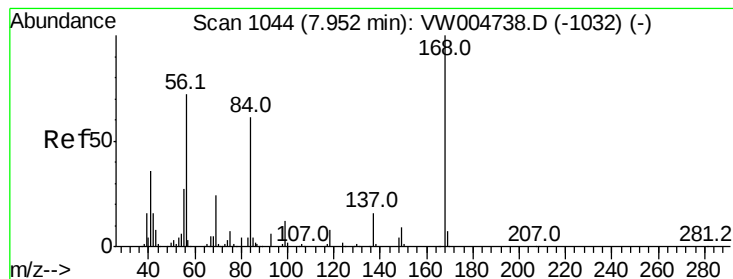
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 20 14:26:44 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:49:53 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 209787   | 20.804 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 136333   | 22.027 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 324007   | 18.927 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 182341   | 20.391 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

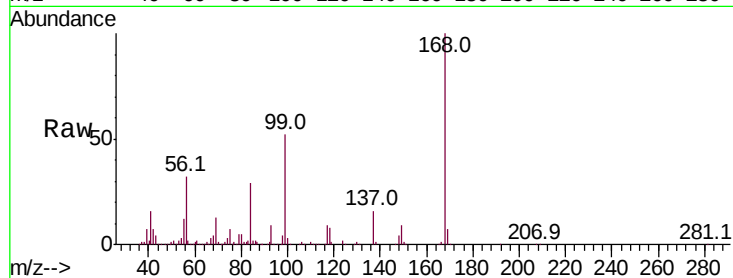
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 666317

Ion Ratio Lower Upper

168 100

99 51.7 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

300000

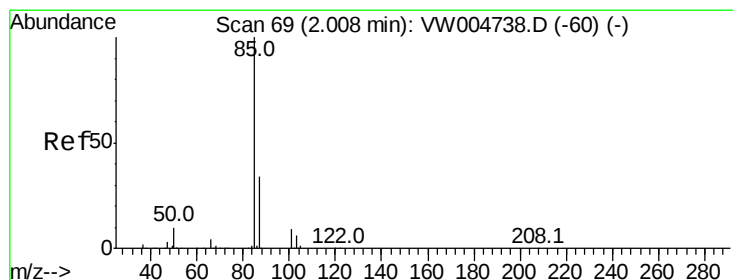
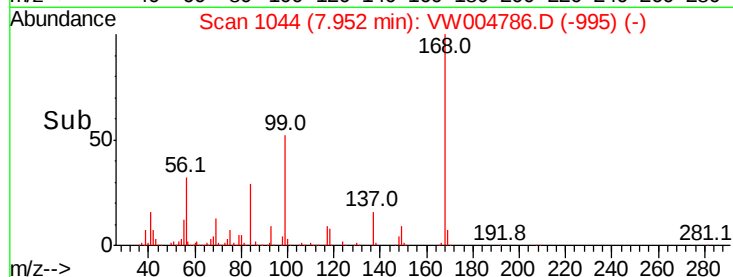
200000

100000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 20.254 ug/l

RT: 2.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VW004786.D

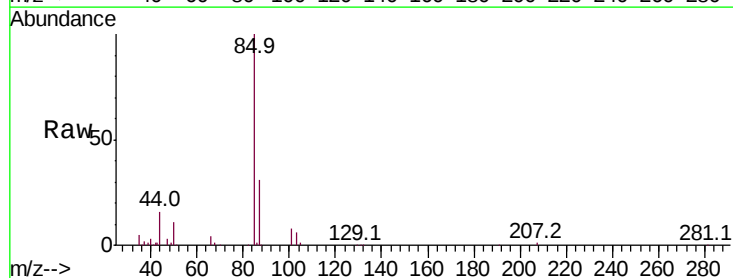
Acq: 20 Aug 2018 13:11

Tgt Ion: 85 Resp: 89393

Ion Ratio Lower Upper

85 100

87 31.2 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

30000

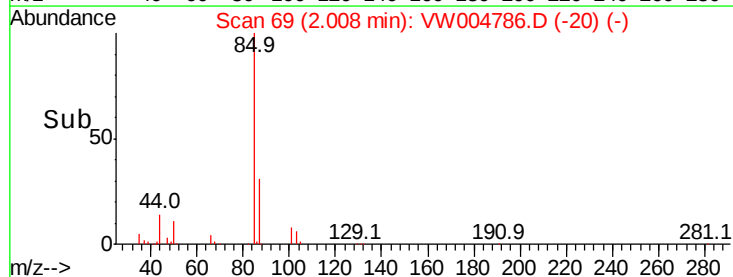
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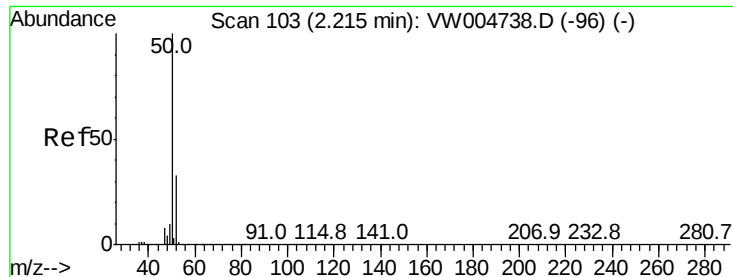
10000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 19.721 ug/l

RT: 2.21 min Scan# 103

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

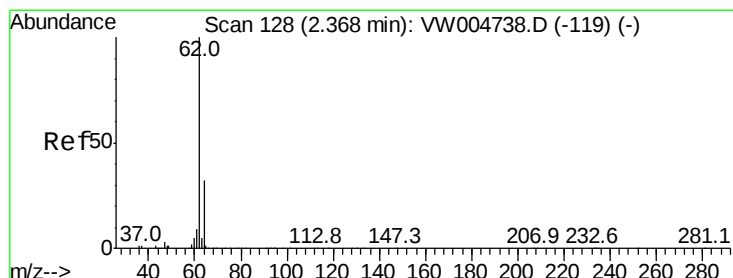
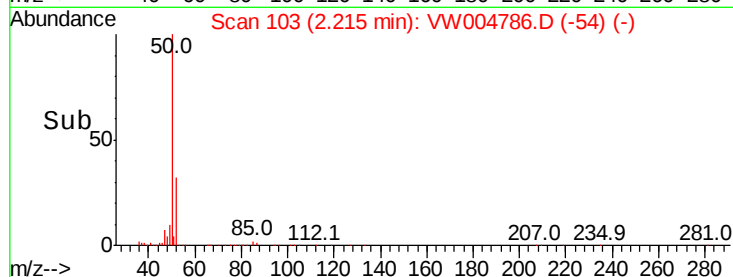
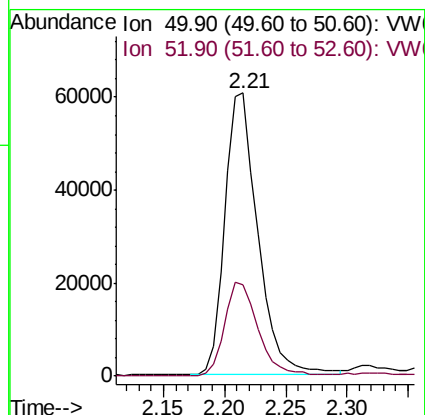
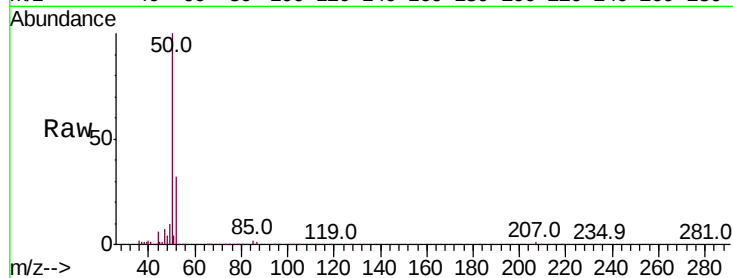
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 50 Resp: 113805

Ion Ratio Lower Upper

50 100

52 32.2 26.7 40.1



#4

Vinyl Chloride

Concen: 21.292 ug/l

RT: 2.37 min Scan# 128

Delta R.T. -0.00 min

Lab File: VW004786.D

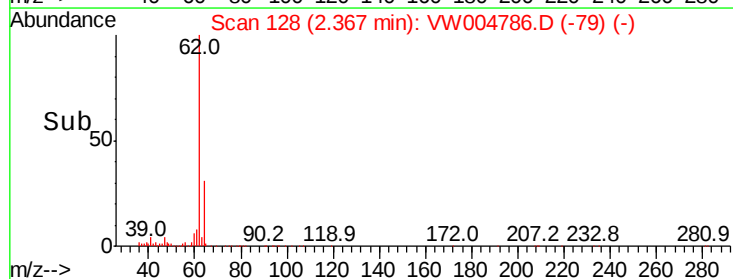
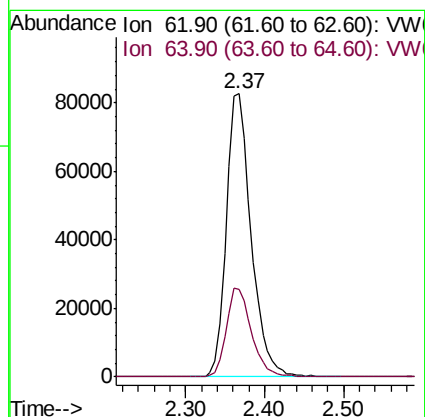
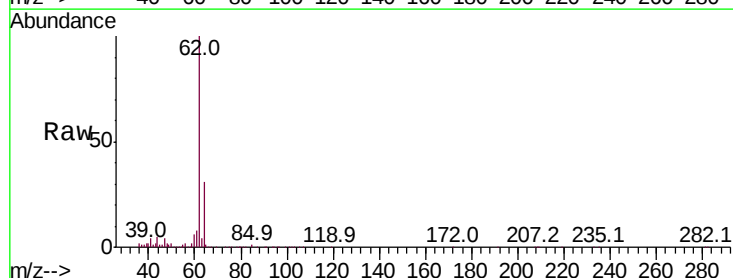
Acq: 20 Aug 2018 13:11

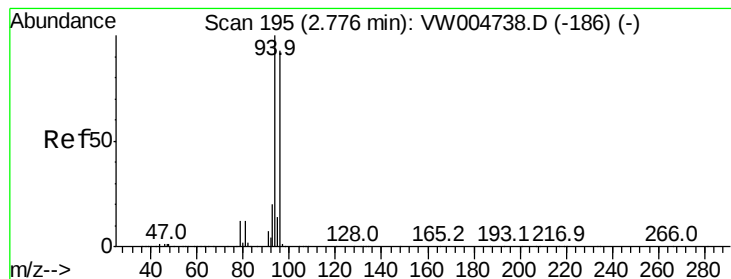
Tgt Ion: 62 Resp: 180861

Ion Ratio Lower Upper

62 100

64 31.1 25.2 37.8





#5

Bromomethane

Concen: 21.317 ug/l

RT: 2.78 min Scan# 196

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

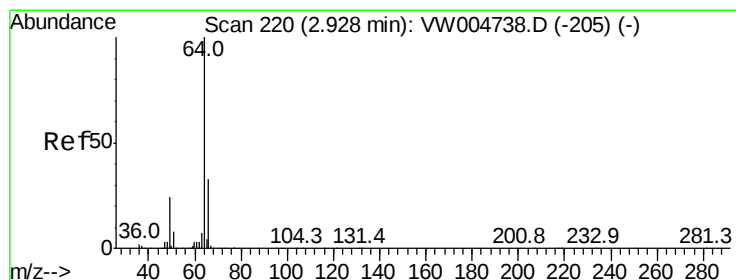
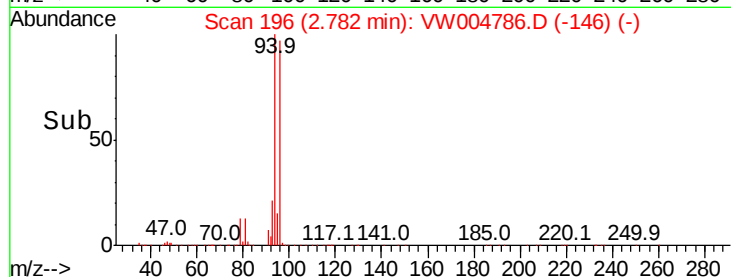
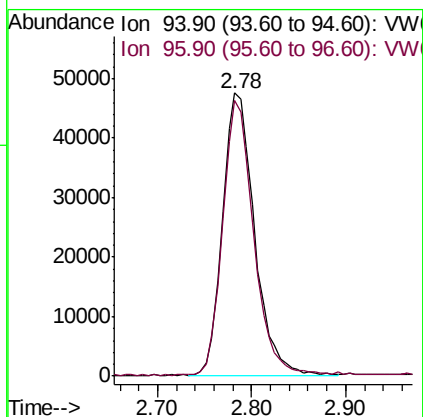
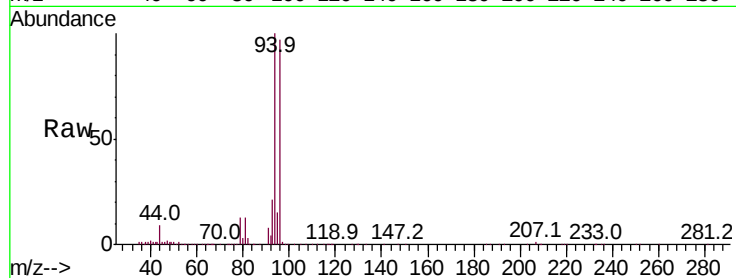
ClientSampled :

Tot Ion: 94 Resp: 111830

Ion Ratio Lower Upper

94 100

96 96.9 74.3 111.5



#6

Chloroethane

Concen: 21.019 ug/l

RT: 2.93 min Scan# 220

Delta R.T. -0.00 min

Lab File: VW004786.D

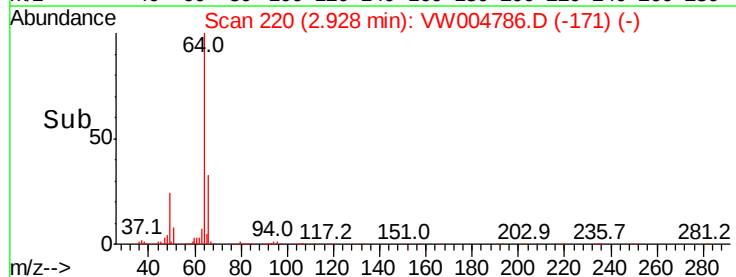
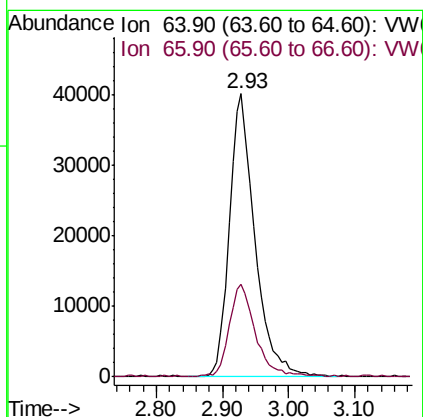
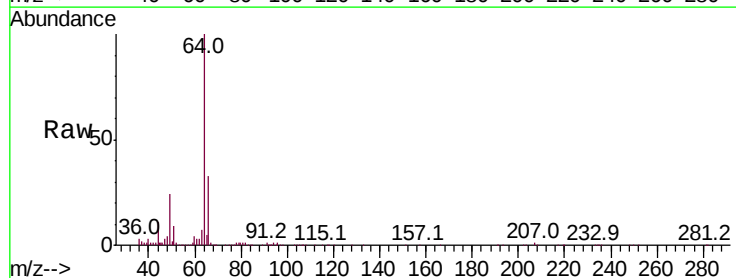
Acq: 20 Aug 2018 13:11

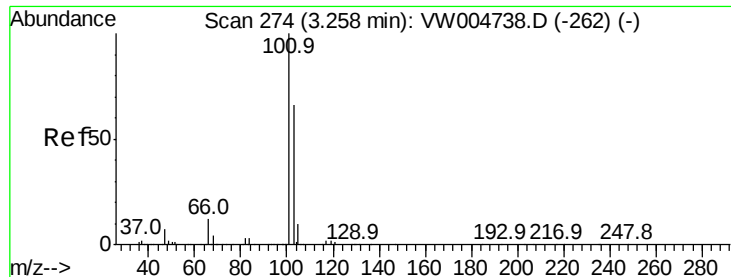
Tgt Ion: 64 Resp: 107730

Ion Ratio Lower Upper

64 100

66 32.4 26.1 39.1



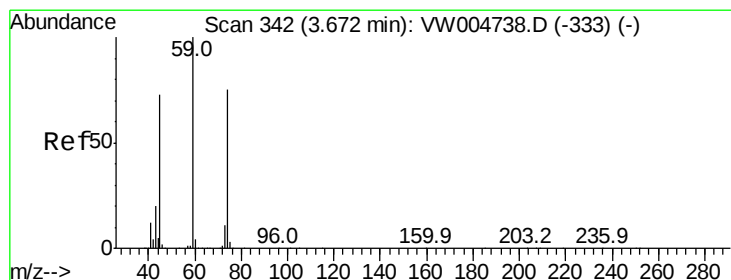
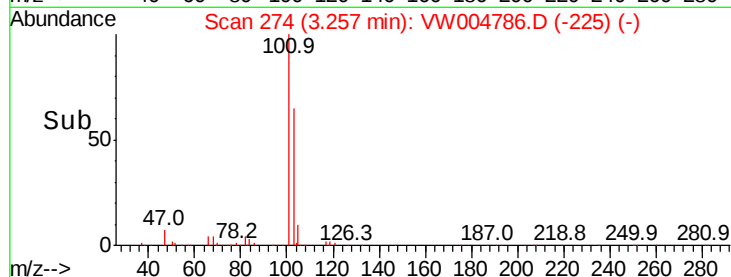
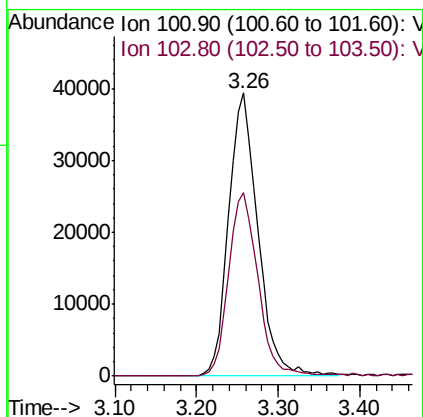
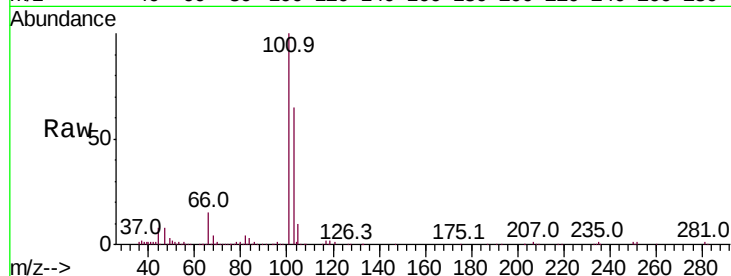


#7

Trichlorofluoromethane  
 Concen: 24.350 ug/l  
 RT: 3.26 min Scan# 274  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Instrument :  
 MSVOA\_W  
 ClientSampled :

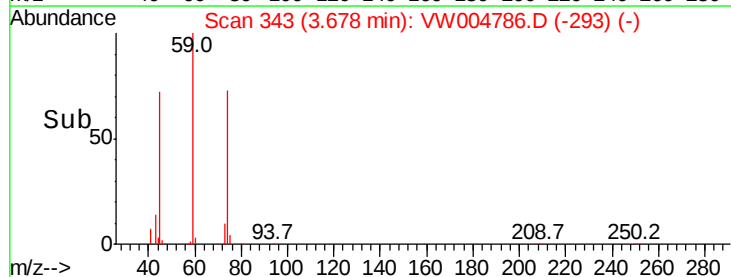
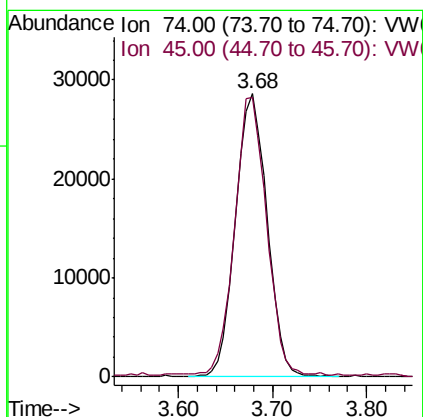
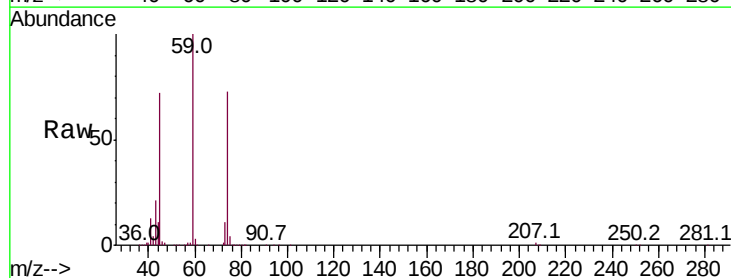
Tot Ion:101 Resp: 97438  
 Ion Ratio Lower Upper  
 101 100  
 103 64.9 52.5 78.7

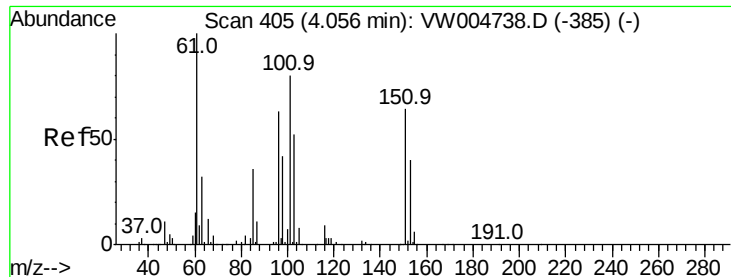


#8

Diethyl Ether  
 Concen: 18.514 ug/l  
 RT: 3.68 min Scan# 343  
 Delta R.T. 0.01 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Tgt Ion: 74 Resp: 66985  
 Ion Ratio Lower Upper  
 74 100  
 45 97.4 49.8 149.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.303 ug/l

RT: 4.06 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

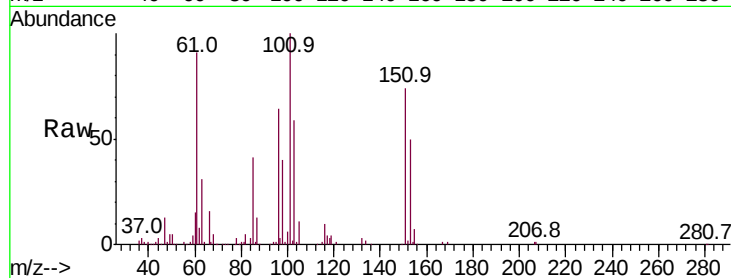
Tot Ion:101 Resp: 146791

Ion Ratio Lower Upper

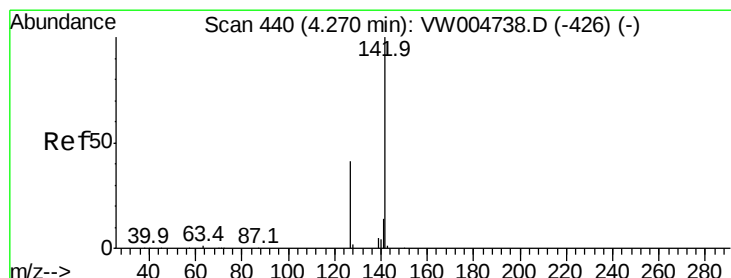
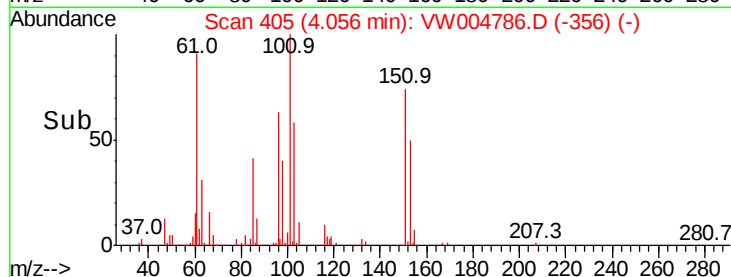
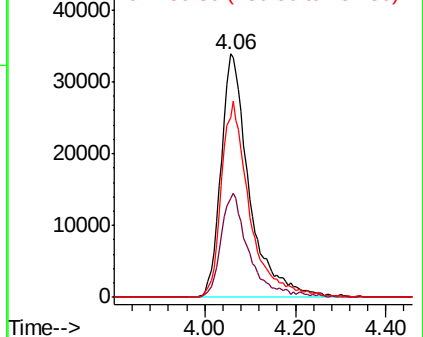
101 100

85 42.4 33.9 50.9

151 80.5 63.4 95.2



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: 20.857 ug/l

RT: 4.26 min Scan# 439

Delta R.T. -0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

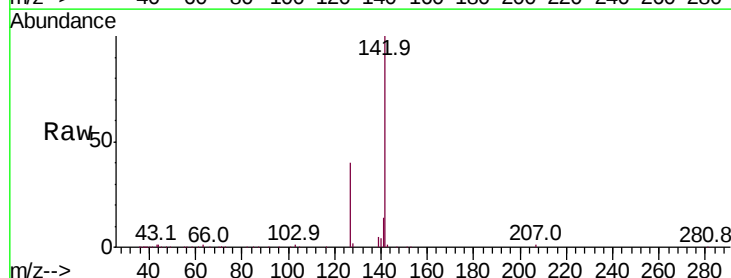
Tgt Ion:142 Resp: 218262

Ion Ratio Lower Upper

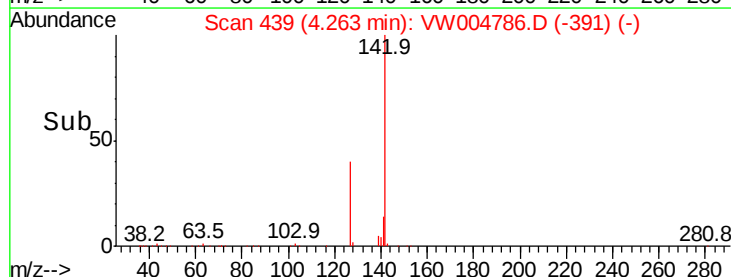
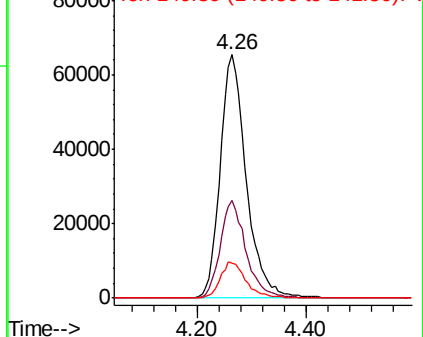
142 100

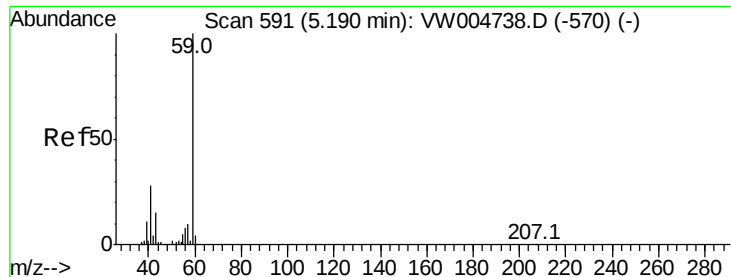
127 39.7 32.1 48.1

141 14.6 11.7 17.5



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



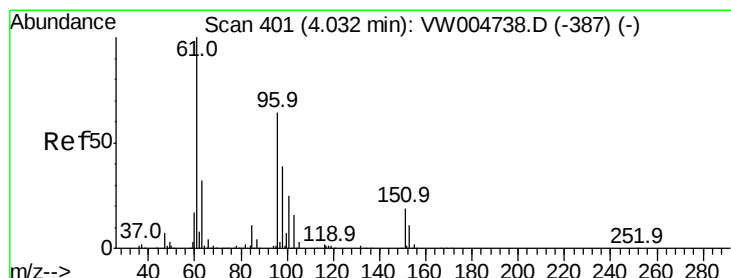
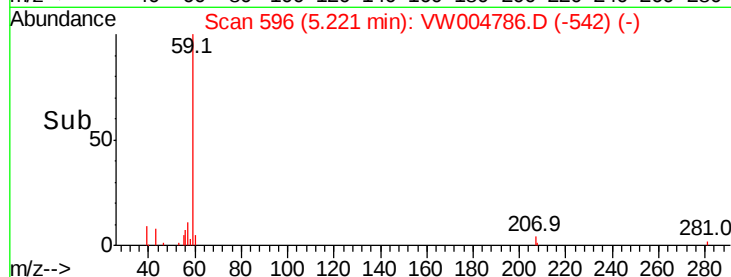
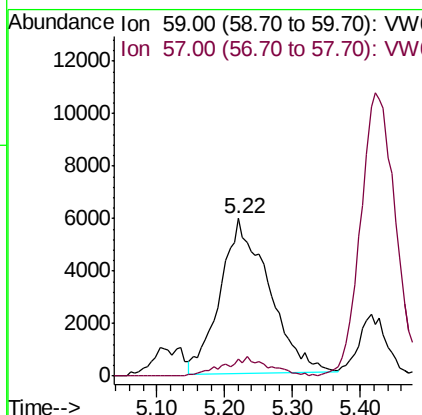
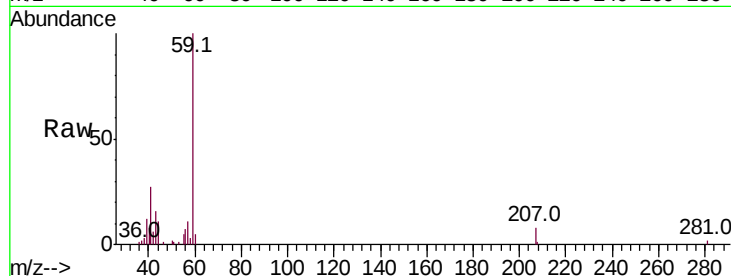


#11

Tert butyl alcohol  
 Concen: 81.745 ug/l  
 RT: 5.22 min Scan# 596  
 Delta R.T. 0.03 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Instrument :  
 MSVOA\_W  
 ClientSampleId :

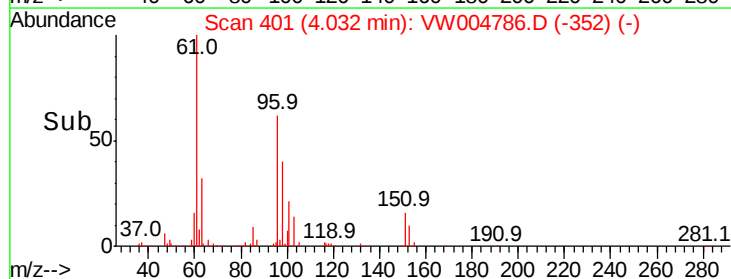
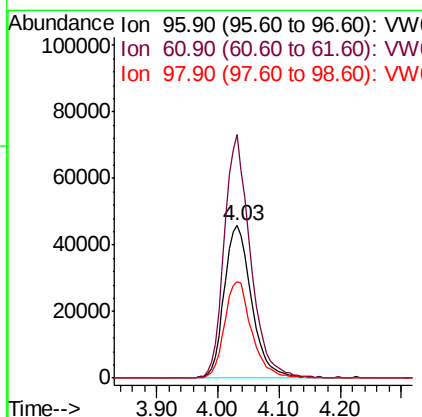
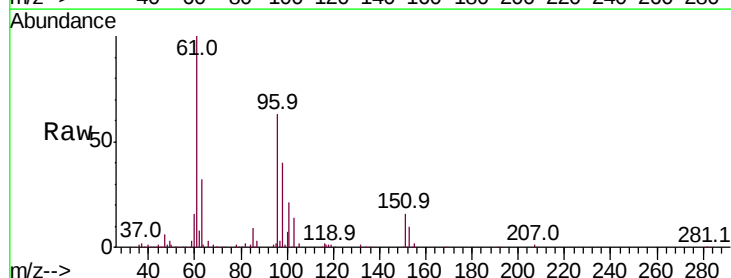
Tot Ion: 59 Resp: 29420  
 Ion Ratio Lower Upper  
 59 100  
 57 11.7 8.4 12.6

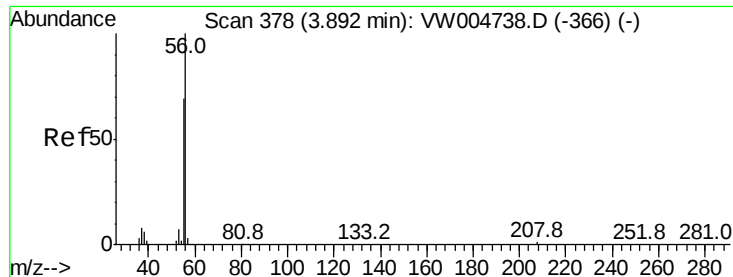


#12

1,1-Dichloroethene  
 Concen: 20.547 ug/l  
 RT: 4.03 min Scan# 401  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Tgt Ion: 96 Resp: 141087  
 Ion Ratio Lower Upper  
 96 100  
 61 160.0 125.6 188.4  
 98 63.2 49.4 74.0

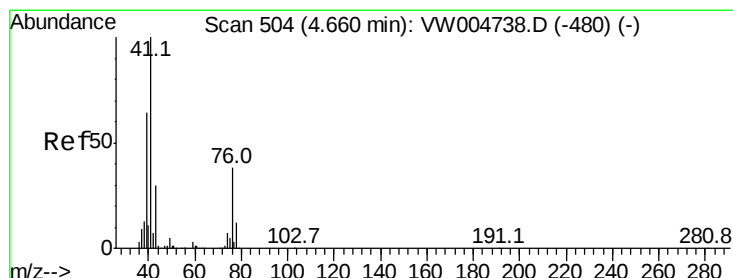
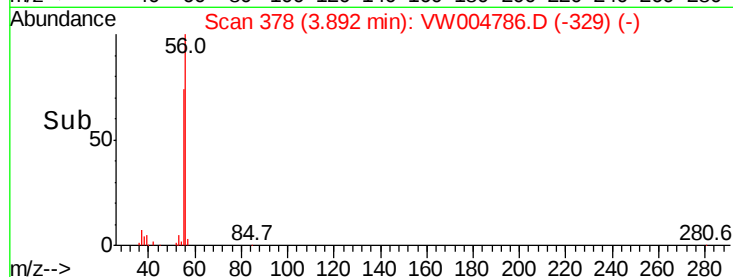
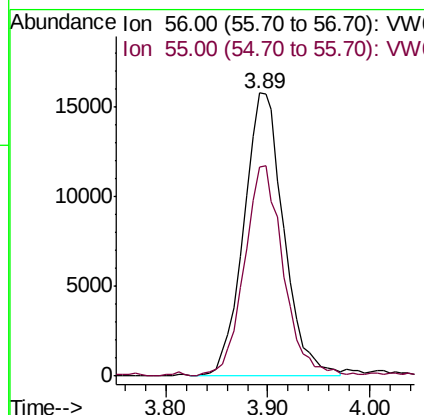
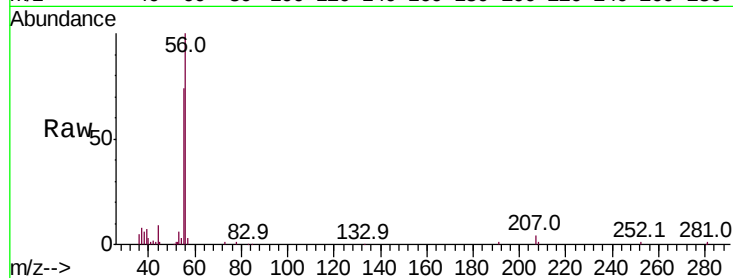




#13  
Acrolein  
Concen: 89.287 ug/l  
RT: 3.89 min Scan# 378  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

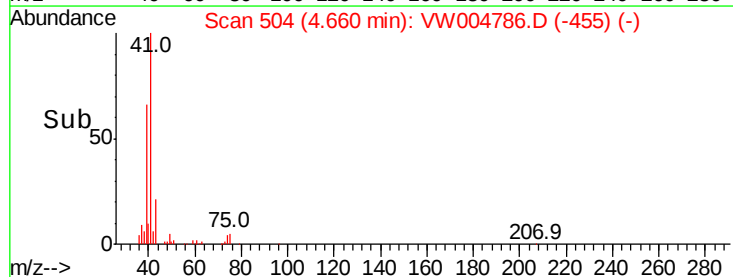
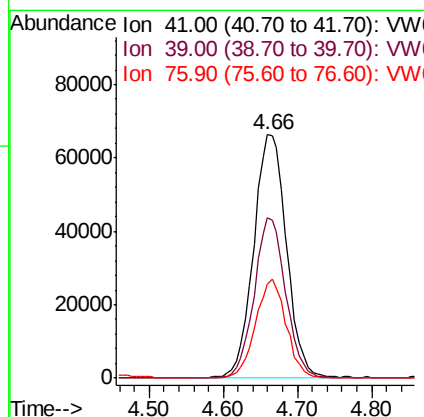
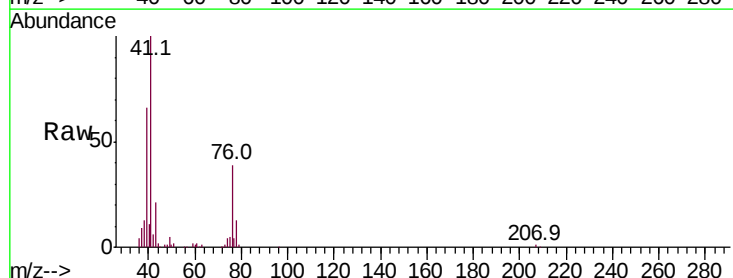
Instrument :  
MSVOA\_W  
ClientSampleId :

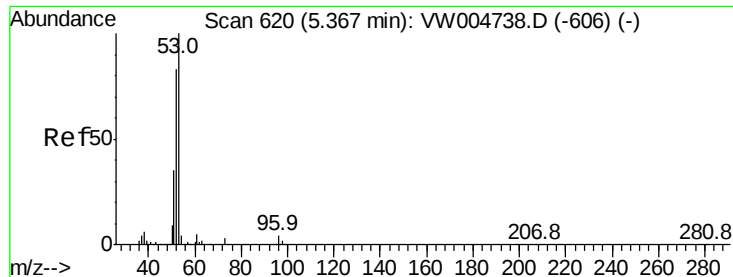
Tot Ion: 56 Resp: 43122  
Ion Ratio Lower Upper  
56 100  
55 72.5 56.1 84.1



#14  
Allyl chloride  
Concen: 19.586 ug/l  
RT: 4.66 min Scan# 504  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion: 41 Resp: 204098  
Ion Ratio Lower Upper  
41 100  
39 63.6 50.0 75.0  
76 38.1 29.8 44.6





#15

Acrylonitrile

Concen: 83.905 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :  
MSVOA\_W  
ClientSampled :

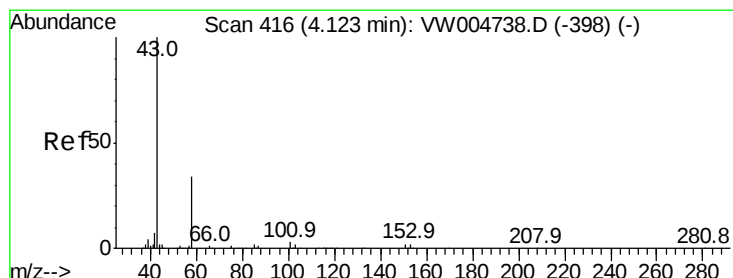
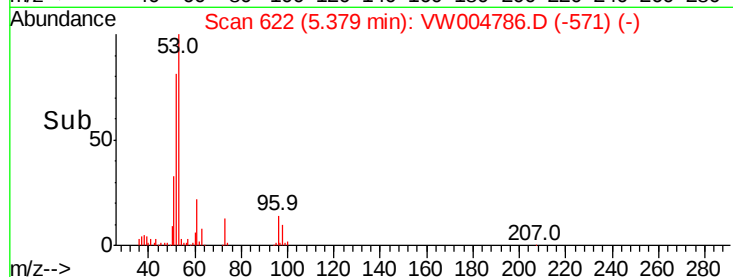
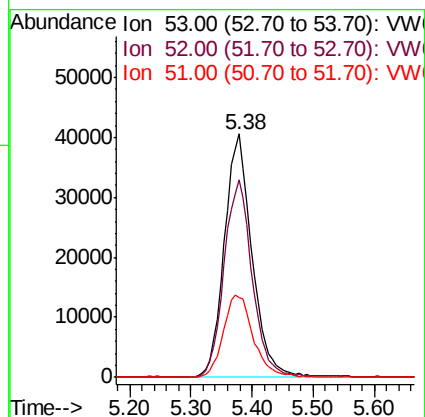
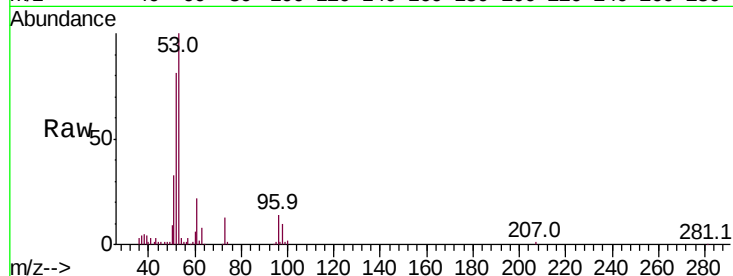
Tot Ion: 53 Resp: 127309

Ion Ratio Lower Upper

53 100

52 82.1 65.8 98.6

51 36.7 28.7 43.1



#16

Acetone

Concen: 92.869 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.01 min

Lab File: VW004786.D

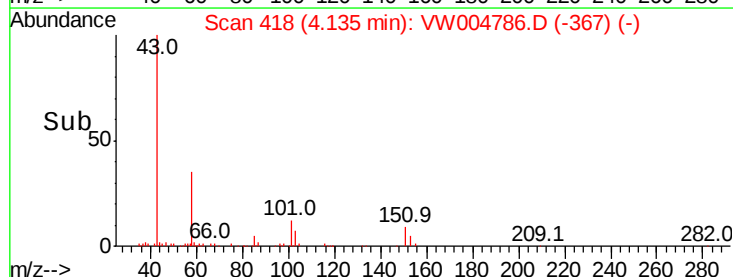
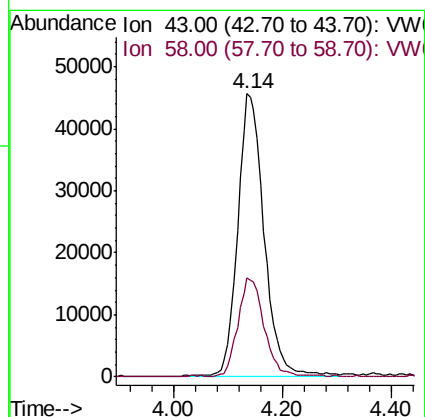
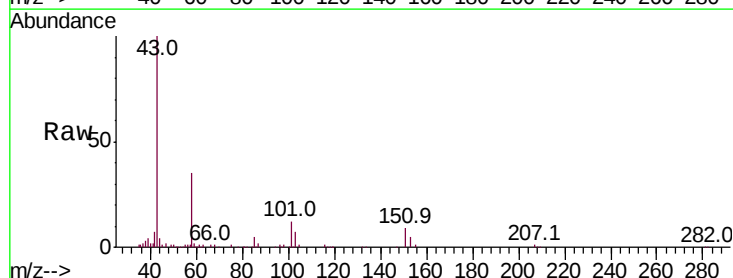
Acq: 20 Aug 2018 13:11

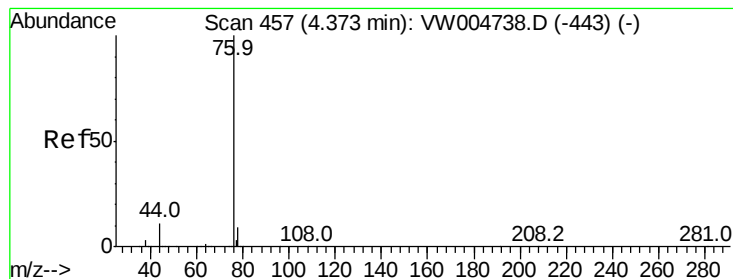
Tgt Ion: 43 Resp: 152720

Ion Ratio Lower Upper

43 100

58 34.8 27.3 40.9





#17

Carbon Disulfide

Concen: 20.856 ug/l

RT: 4.37 min Scan# 457

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

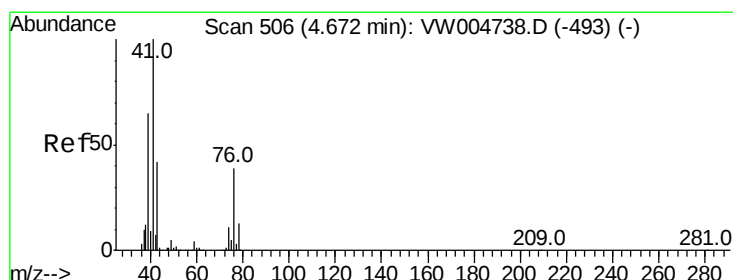
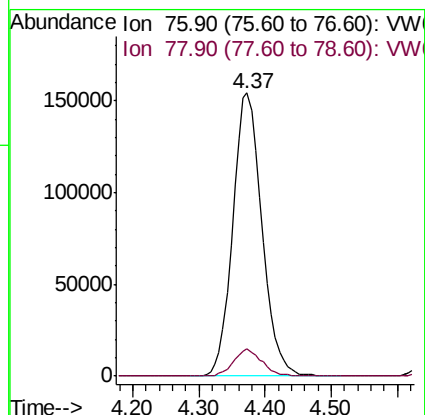
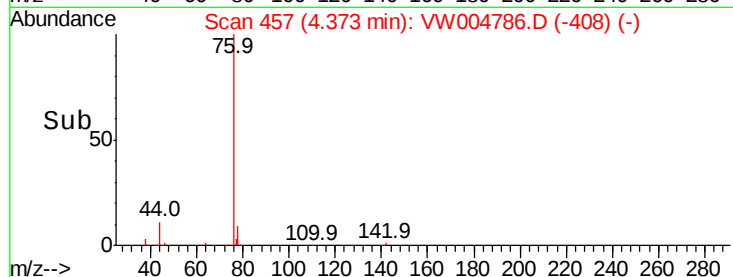
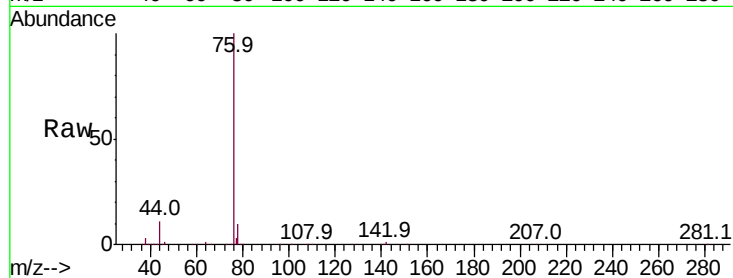
ClientSampleId :

Tot Ion: 76 Resp: 470621

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.2



#18

Methyl Acetate

Concen: 16.472 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW004786.D

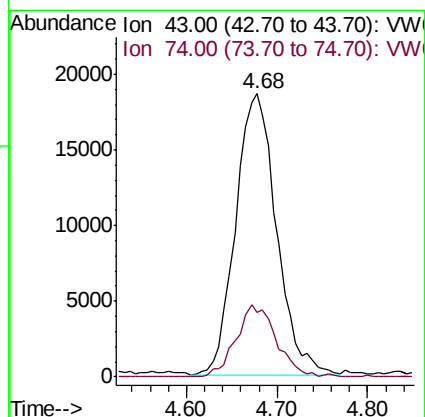
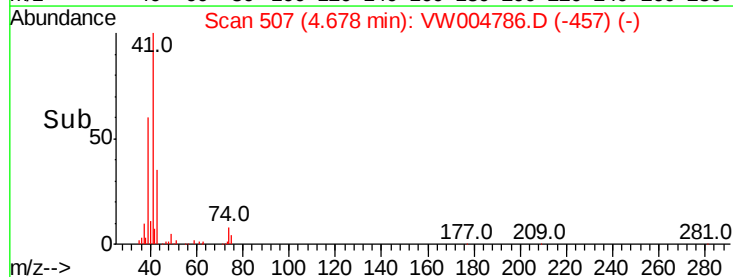
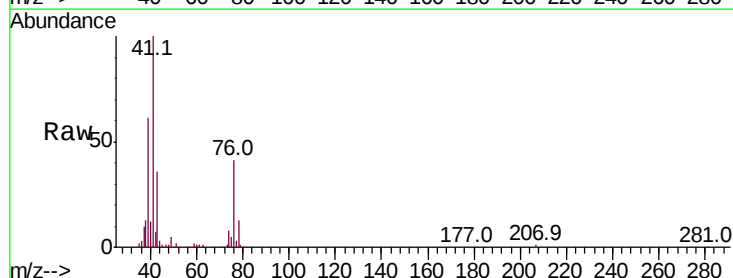
Acq: 20 Aug 2018 13:11

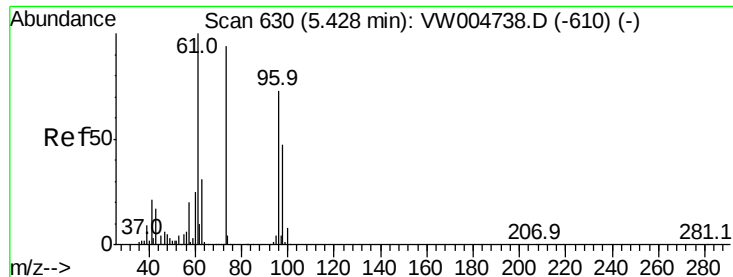
Tgt Ion: 43 Resp: 58046

Ion Ratio Lower Upper

43 100

74 25.0 19.8 29.8

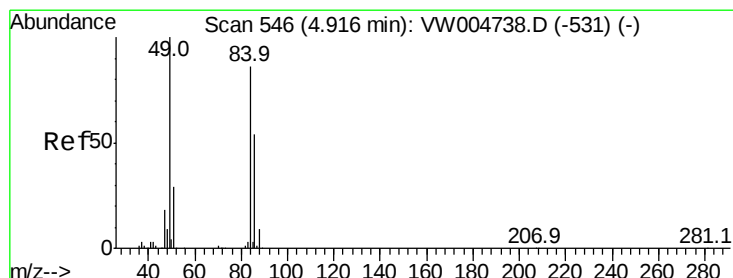
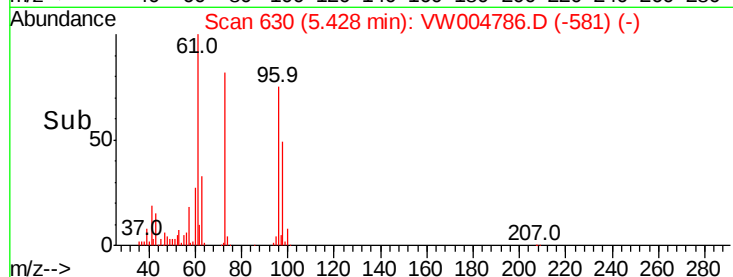
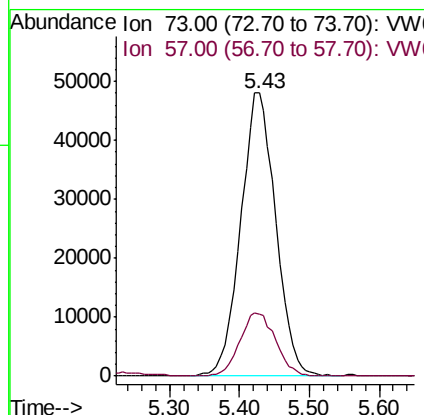
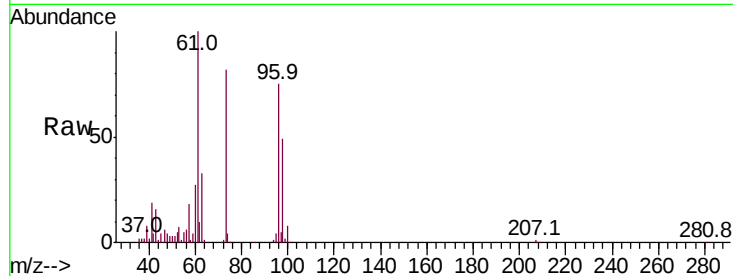




#19  
Methvl tert-butvl Ether  
Concen: 18.733 ug/l  
RT: 5.43 min Scan# 630  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

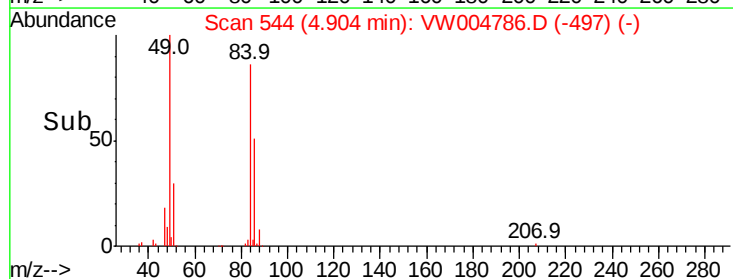
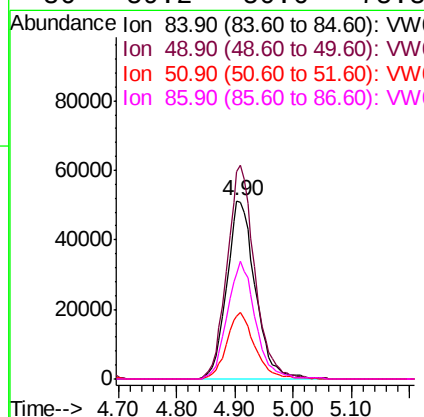
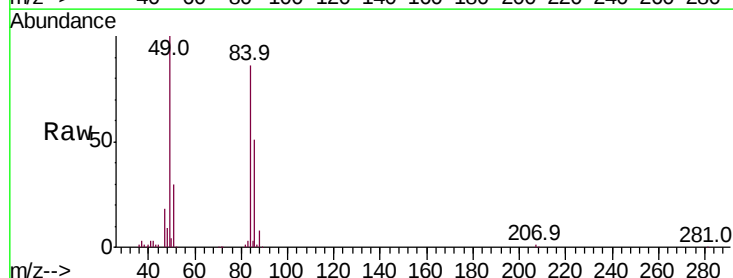
Instrument :  
MSVOA\_W  
ClientSampled :

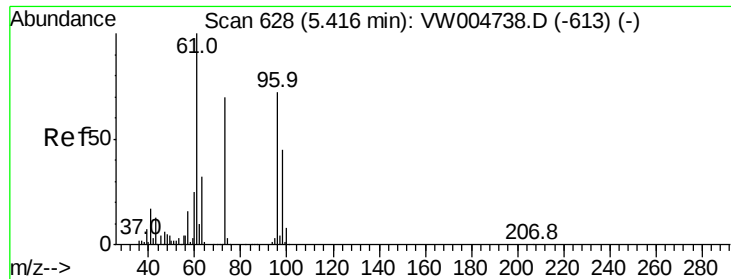
Tot Ion: 73 Resp: 166974  
Ion Ratio Lower Upper  
73 100  
57 22.0 17.3 25.9



#20  
Methylene Chloride  
Concen: 20.625 ug/l  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion: 84 Resp: 173899  
Ion Ratio Lower Upper  
84 100  
49 116.7 93.2 139.8  
51 35.4 27.4 41.0  
86 59.2 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 19.911 ug/l

RT: 5.42 min Scan# 629

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :  
MSVOA\_W  
ClientSampleId :

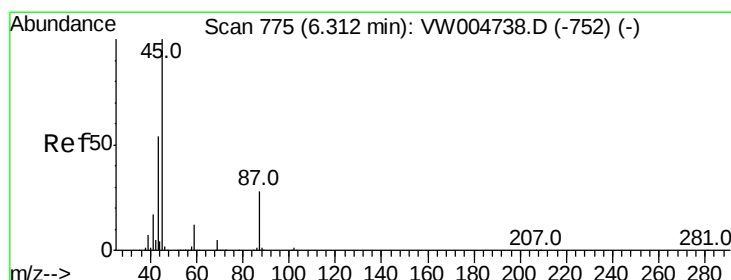
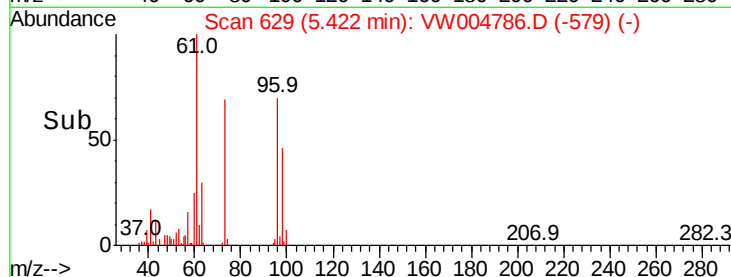
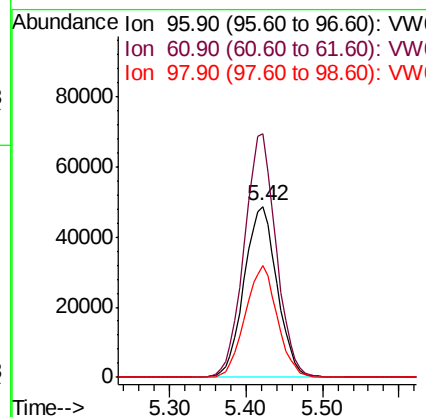
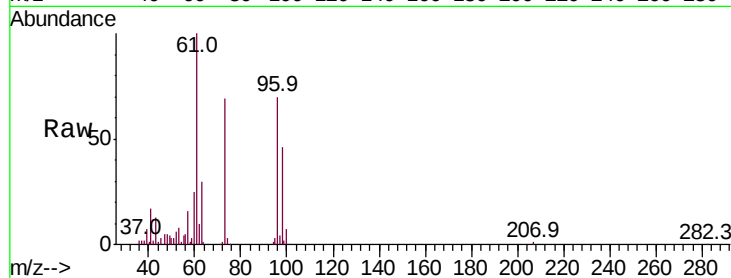
Tot Ion: 96 Resp: 145471

Ion Ratio Lower Upper

96 100

61 142.7 111.4 167.0

98 65.6 49.7 74.5



#22

Diisopropyl ether

Concen: 20.351 ug/l

RT: 6.31 min Scan# 775

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Tgt Ion: 45 Resp: 407602

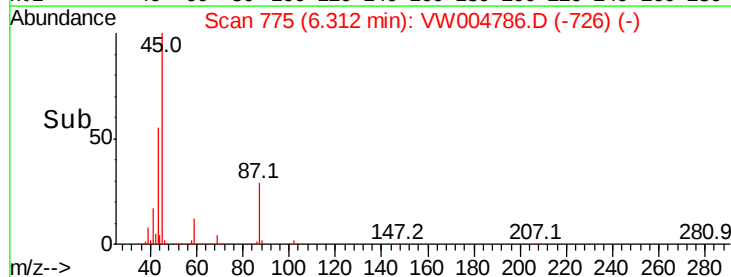
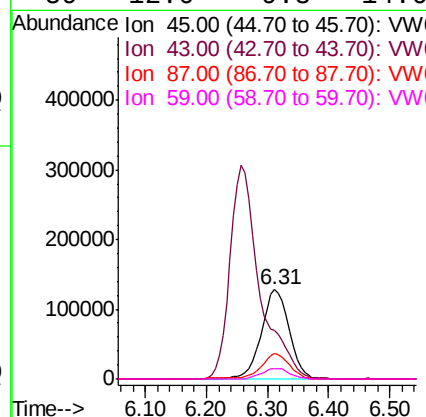
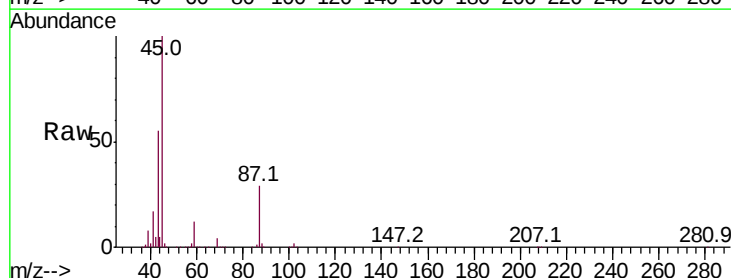
Ion Ratio Lower Upper

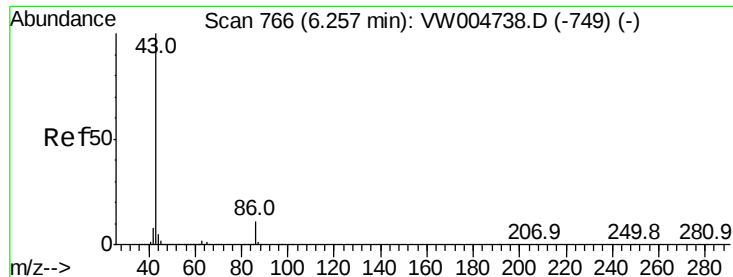
45 100

43 54.5 43.0 64.6

87 29.0 22.2 33.4

59 12.0 9.8 14.6





#23

Vinyl Acetate

Concen: 91.358 ug/l

RT: 6.26 min Scan# 766

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

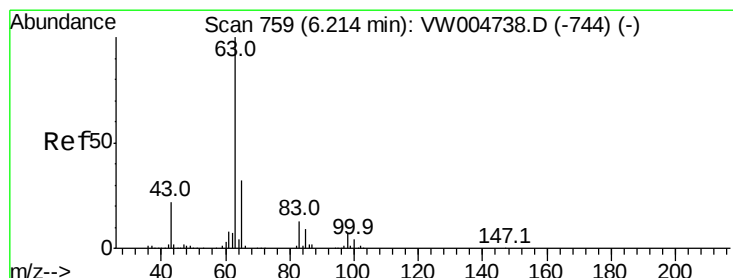
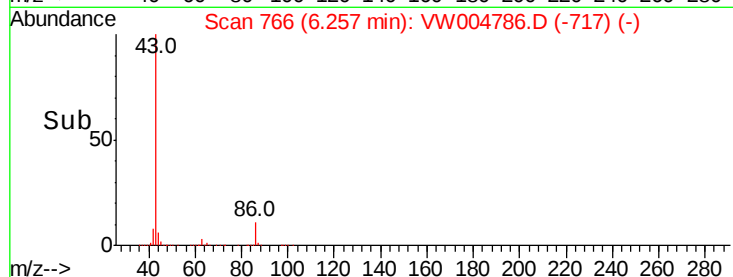
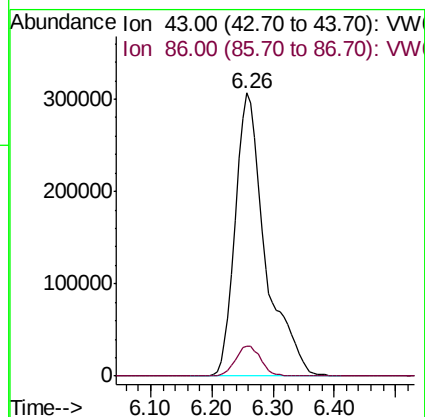
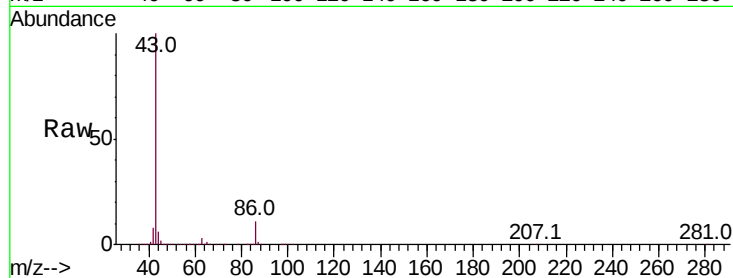
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 1034980

Ion Ratio Lower Upper

43 100

86 10.8 8.5 12.7



#24

1,1-Dichloroethane

Concen: 20.048 ug/l

RT: 6.21 min Scan# 759

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

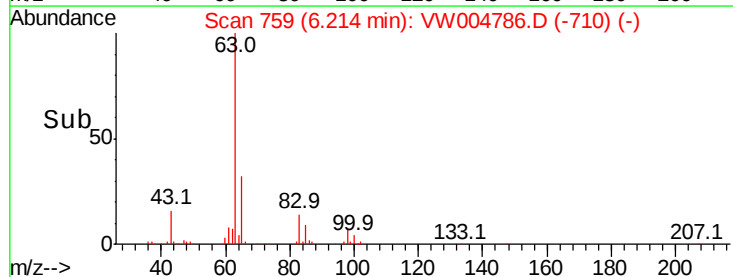
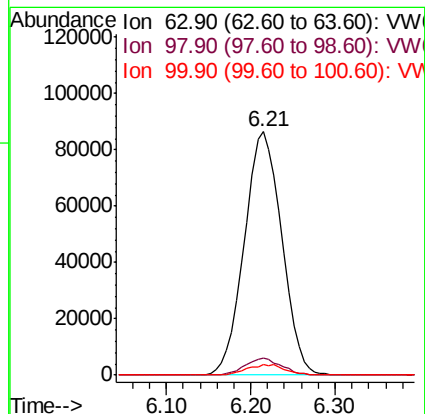
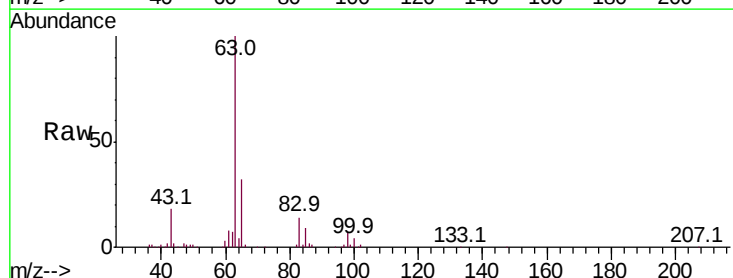
Tgt Ion: 63 Resp: 260936

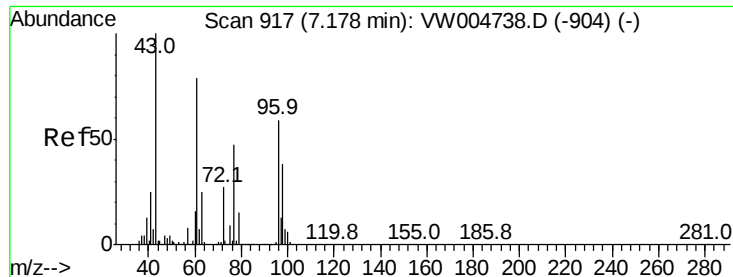
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 4.1 2.1 6.3





#25

2-Butanone

Concen: 85.041 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

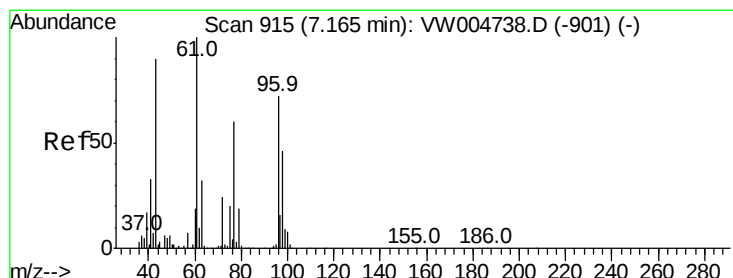
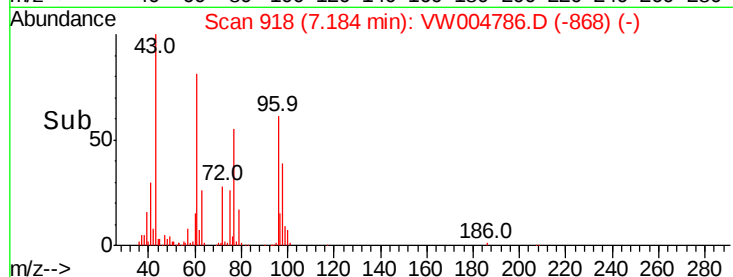
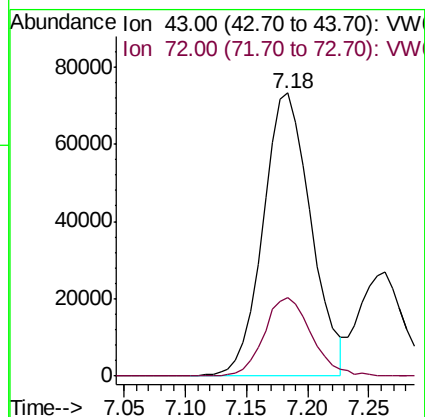
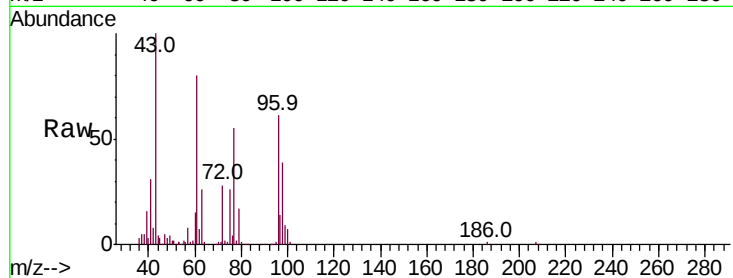
ClientSampleId :

Tot Ion: 43 Resp: 199257

Ion Ratio Lower Upper

43 100

72 27.9 22.0 33.0



#26

2,2-Dichloropropane

Concen: 22.377 ug/l

RT: 7.17 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW004786.D

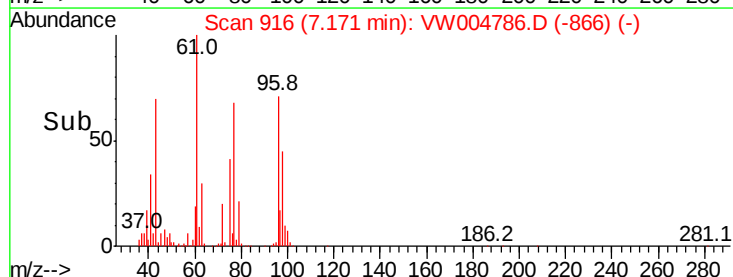
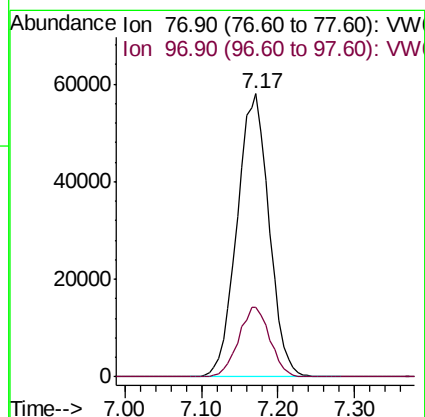
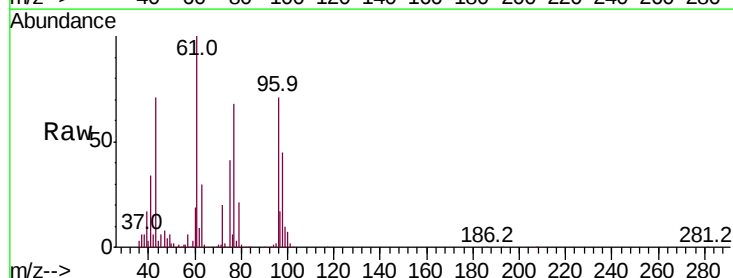
Acq: 20 Aug 2018 13:11

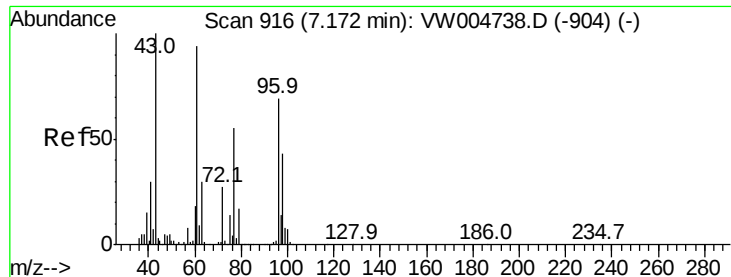
Tgt Ion: 77 Resp: 168224

Ion Ratio Lower Upper

77 100

97 24.1 12.6 37.8



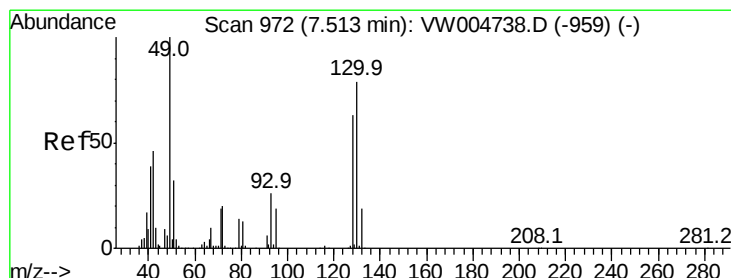
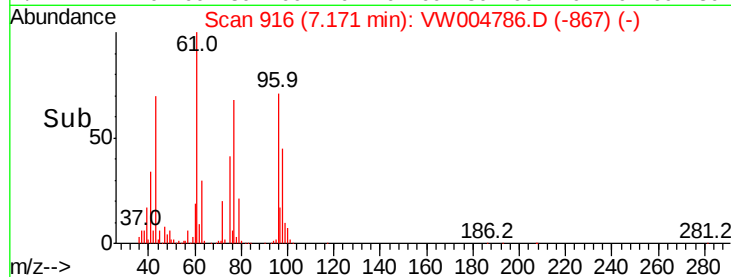
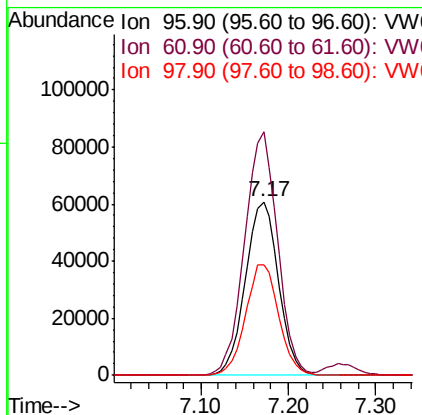
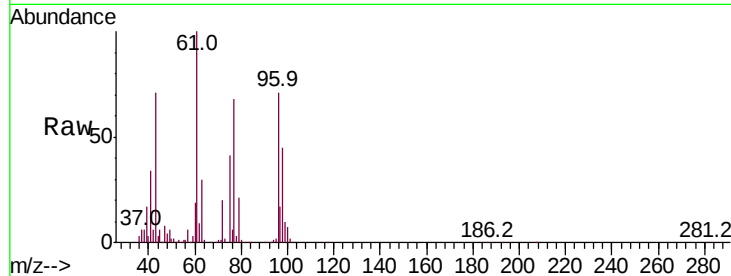


#27

cis-1,2-Dichloroethene  
 Concen: 20.287 ug/l  
 RT: 7.17 min Scan# 916  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Instrument :  
 MSVOA\_W  
 ClientSampleId :

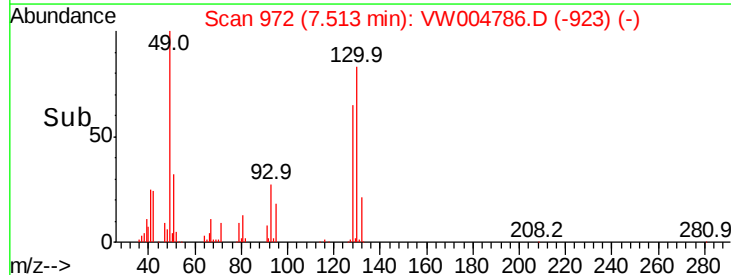
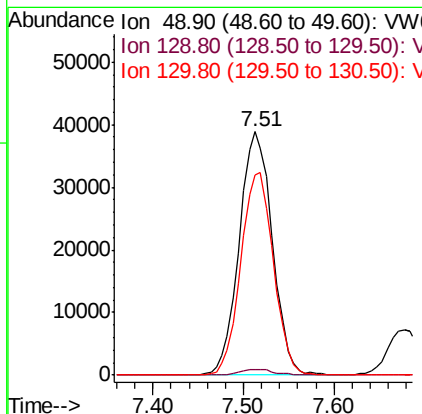
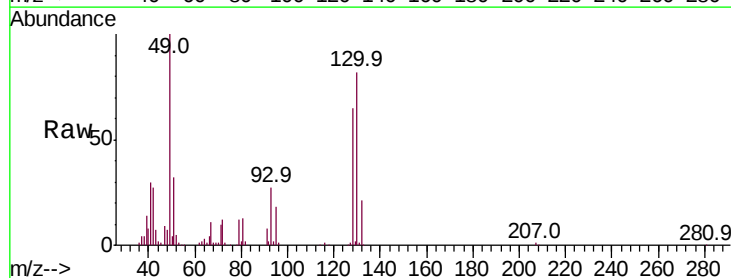
| Tot Ion | 96    | Resp  | 159560 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 139.3 | 0.0   | 277.6  |
| 98      | 63.7  | 0.0   | 127.4  |

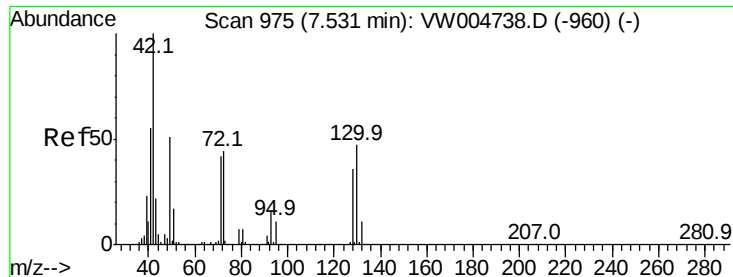


#28

Bromochloromethane  
 Concen: 17.932 ug/l  
 RT: 7.51 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

| Tgt Ion | 49    | Resp  | 98283 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 2.4   | 0.0   | 4.4   |
| 130     | 82.0  | 63.7  | 95.5  |

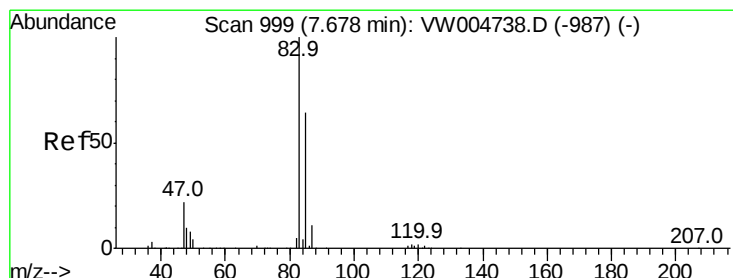
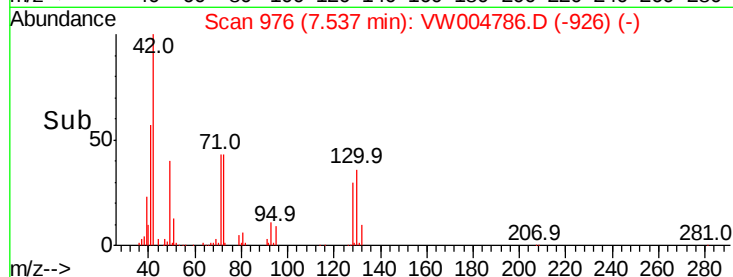
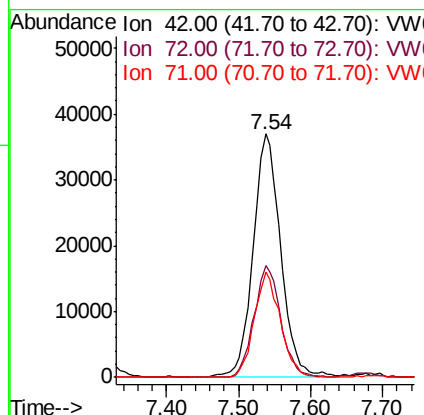
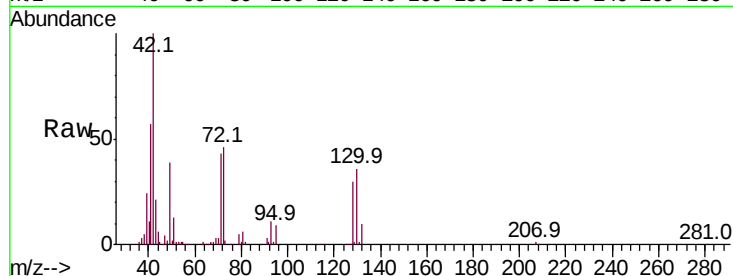




#29  
Tetrahydrofuran  
Concen: 81.981 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.01 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

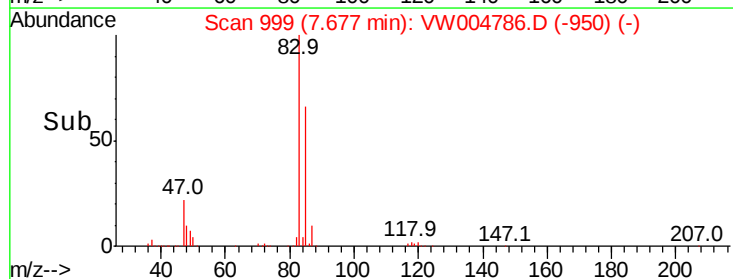
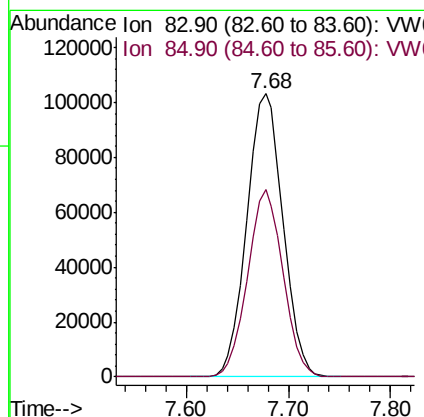
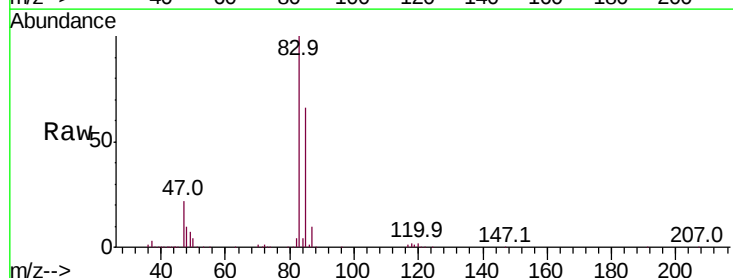
Instrument :  
MSVOA\_W  
ClientSampled :

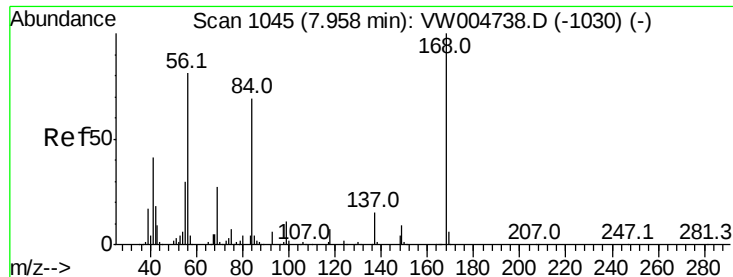
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 44.9  | 34.9  | 52.3  |
| 71      | 41.1  | 33.8  | 50.6  |



#30  
Chloroform  
Concen: 19.883 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.4  | 51.0  | 76.6  |

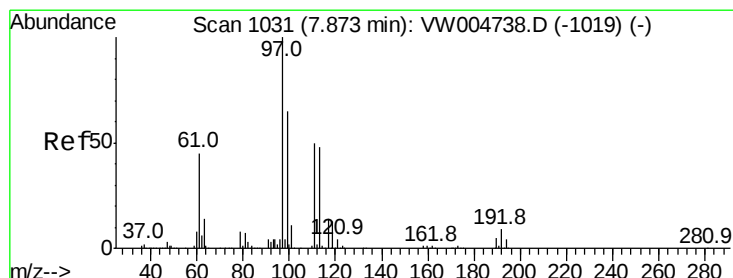
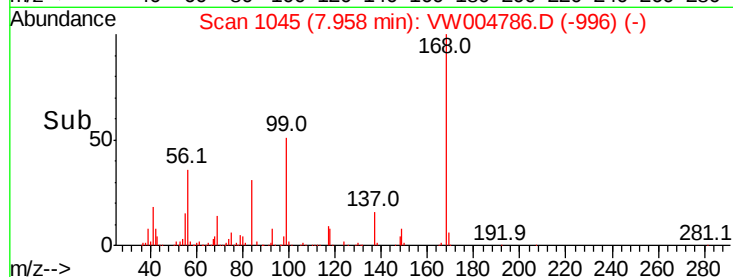
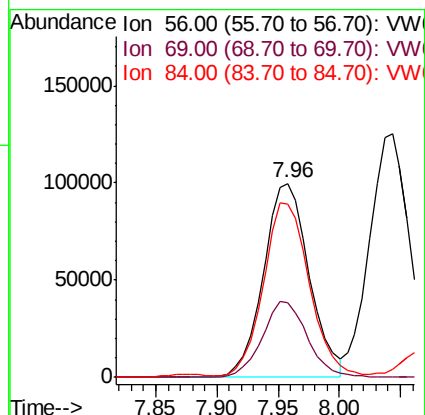
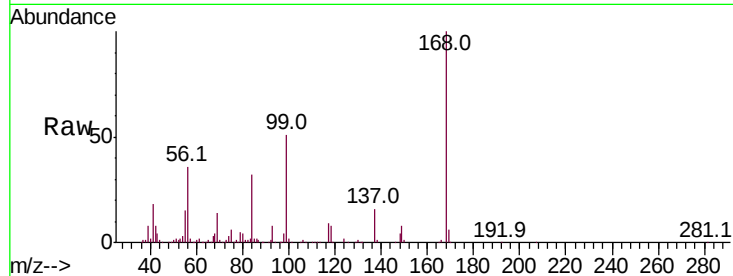




#31  
Cyclohexane  
Concen: 20.588 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

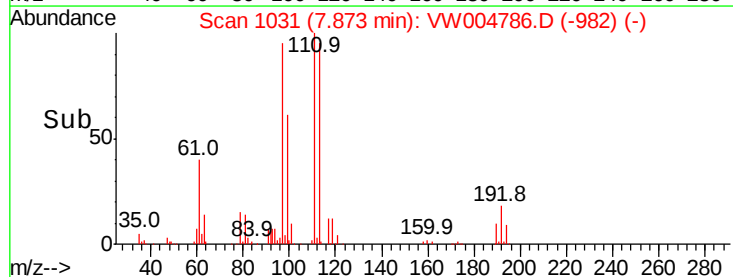
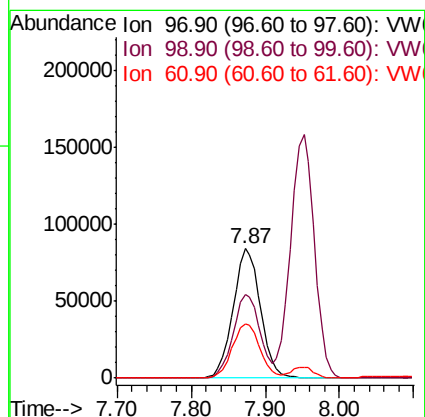
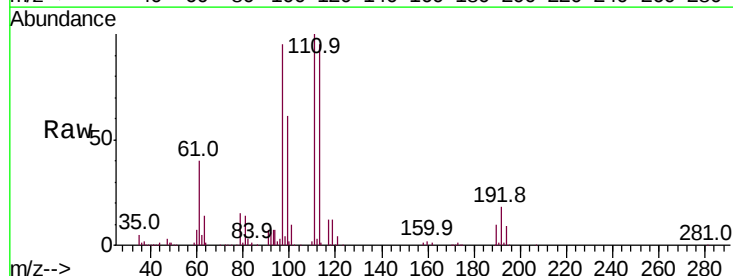
Instrument :  
MSVOA\_W  
ClientSampleId :

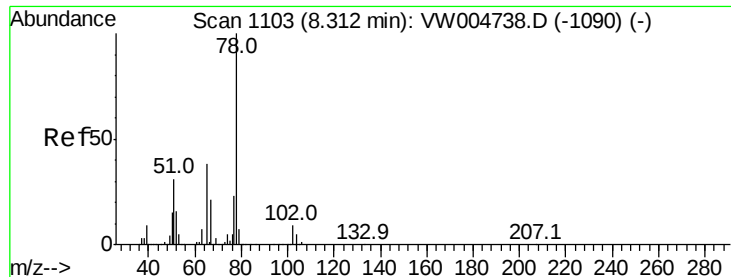
Tot Ion: 56 Resp: 259186  
Ion Ratio Lower Upper  
56 100  
69 38.3 27.1 40.7  
84 87.6 68.3 102.5



#32  
1,1,1-Trichloroethane  
Concen: 21.308 ug/l  
RT: 7.87 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion: 97 Resp: 216213  
Ion Ratio Lower Upper  
97 100  
99 63.2 51.7 77.5  
61 42.9 34.4 51.6





#33

1,2-Dichloroethane-d4

Concen: 43.801 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

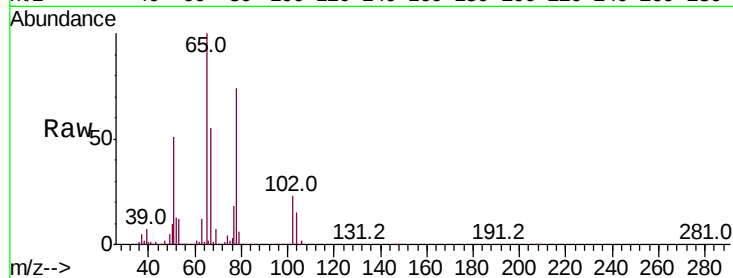
ClientSampleId :

Tot Ion: 65 Resp: 282165

Ion Ratio Lower Upper

65 100

67 55.4 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

150000

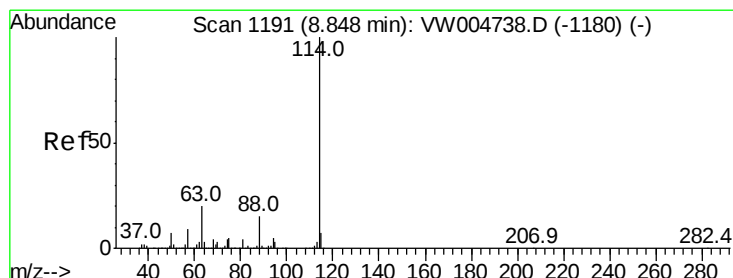
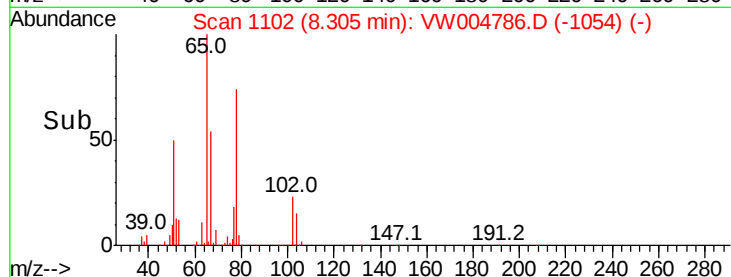
100000

50000

0

8.20 8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

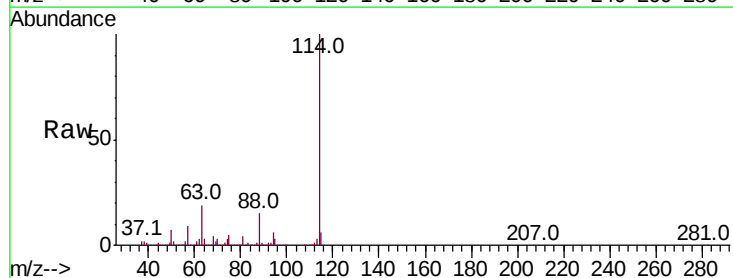
Tgt Ion: 114 Resp: 980711

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.0

88 15.1 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.85

600000

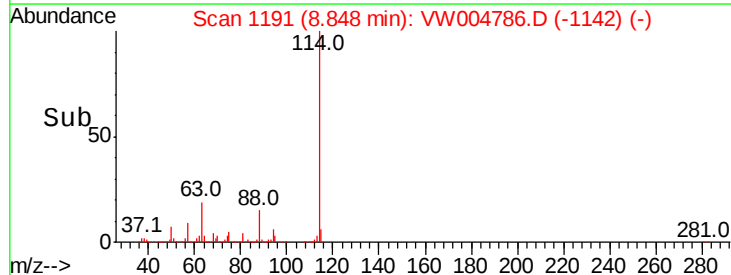
400000

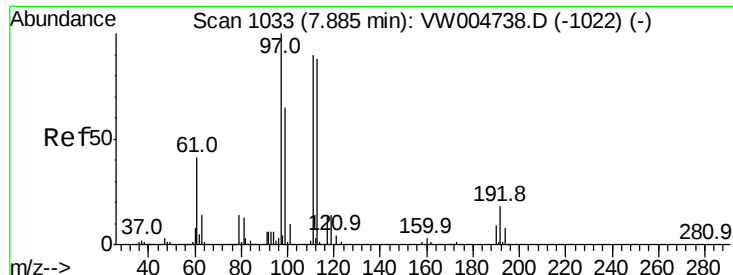
200000

0

8.70 8.80 8.90 9.00

Time-->

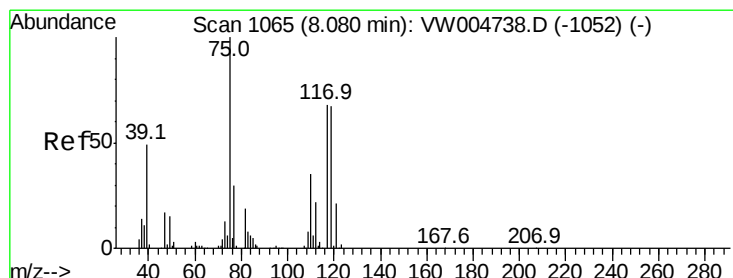
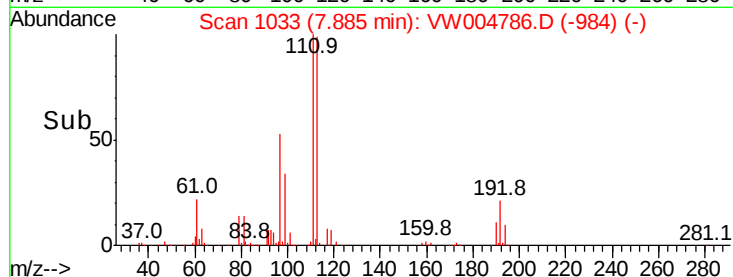
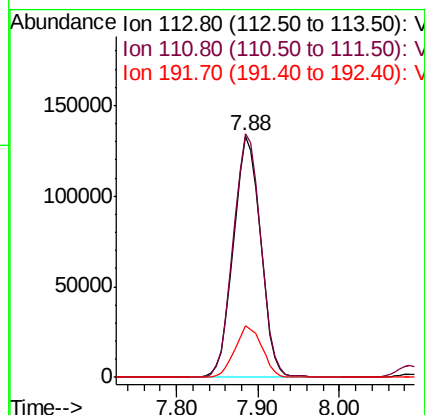
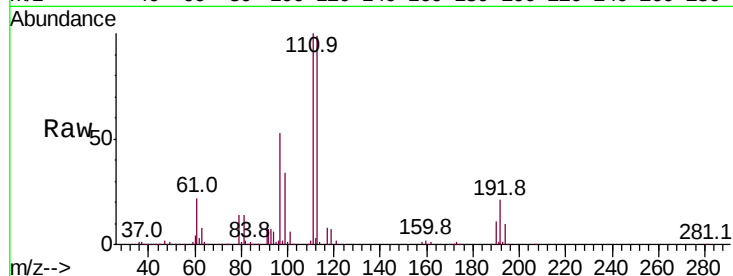




#35  
 Dibromofluoromethane  
 Concen: 48.778 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

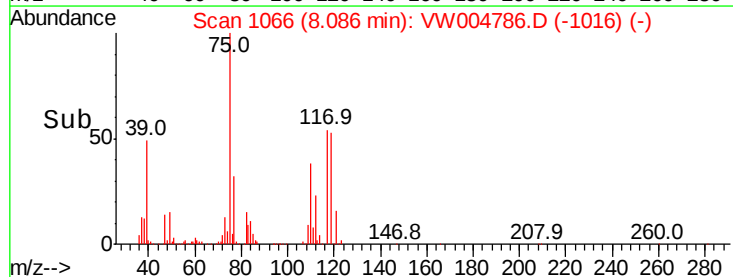
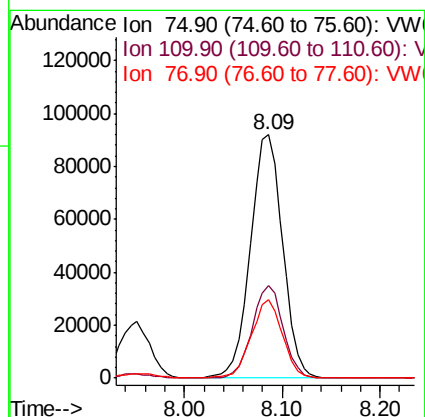
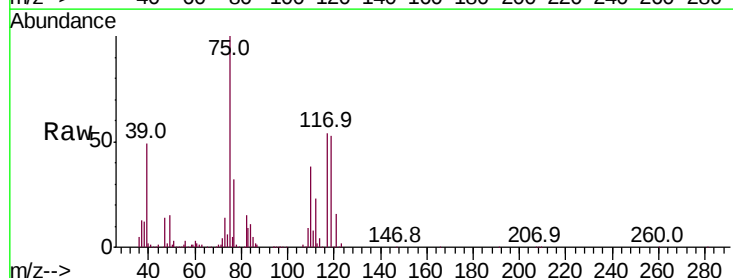
Instrument :  
 MSVOA\_W  
 ClientSampleId :

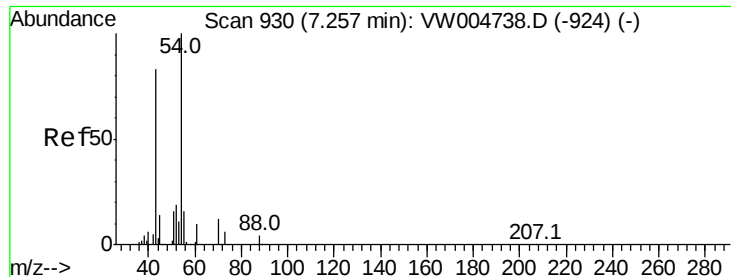
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 82.4  | 123.6 |
| 192     | 21.3  | 16.7  | 25.1  |



#36  
 1,1-Dichloropropene  
 Concen: 20.826 ug/l  
 RT: 8.09 min Scan# 1066  
 Delta R.T. 0.01 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.6  | 17.8  | 53.5  |
| 77      | 31.5  | 24.9  | 37.3  |

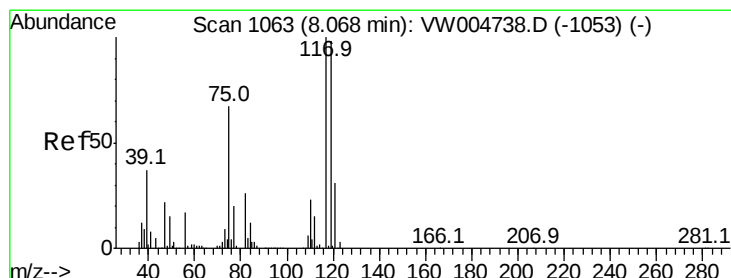
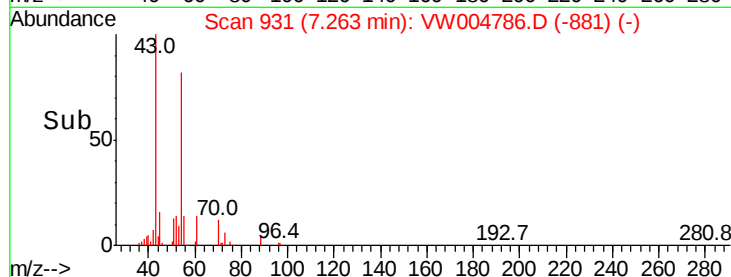
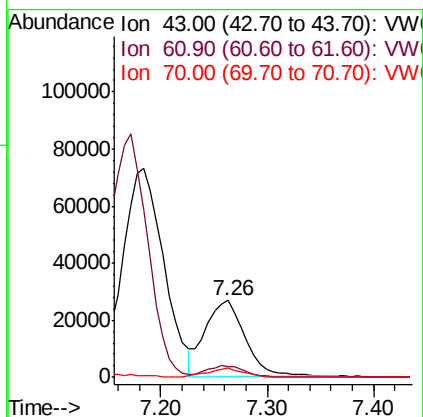
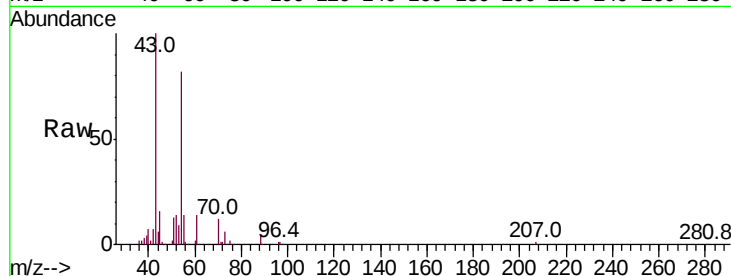




#37  
Ethyl Acetate  
Concen: 17.228 ug/l  
RT: 7.26 min Scan# 931  
Delta R.T. 0.01 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

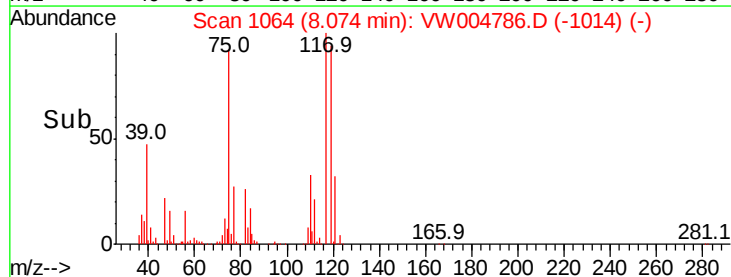
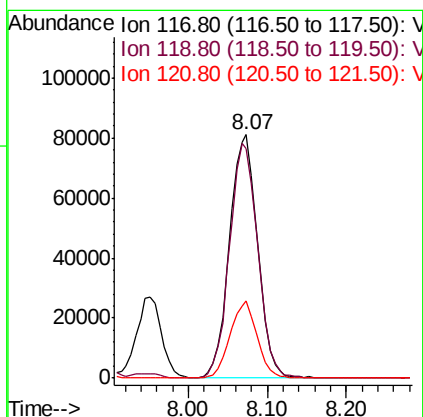
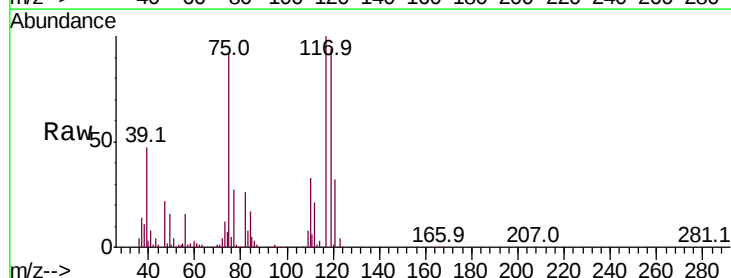
Instrument :  
MSVOA\_W  
ClientSampled :

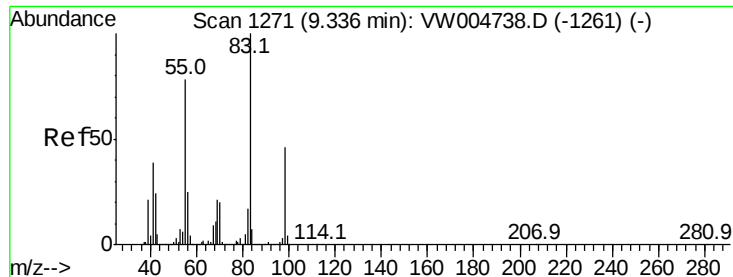
Tot Ion: 43 Resp: 69383  
Ion Ratio Lower Upper  
43 100  
61 15.3 11.6 17.4  
70 11.4 9.2 13.8



#38  
Carbon Tetrachloride  
Concen: 21.641 ug/l  
RT: 8.07 min Scan# 1064  
Delta R.T. 0.01 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion: 117 Resp: 201259  
Ion Ratio Lower Upper  
117 100  
119 94.2 78.0 117.0  
121 31.6 24.8 37.2

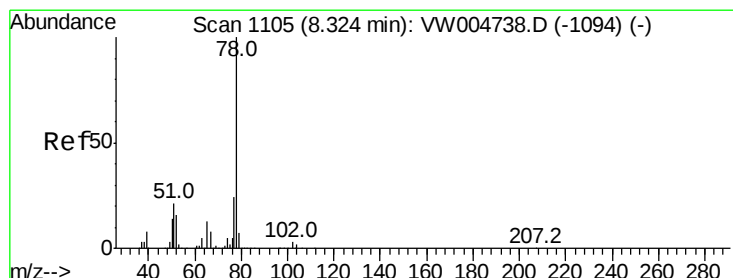
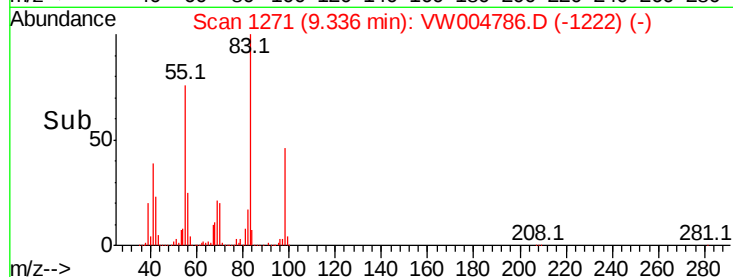
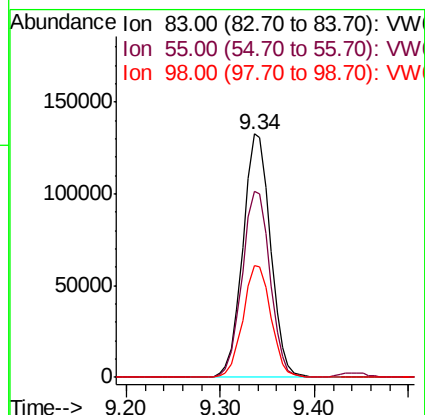
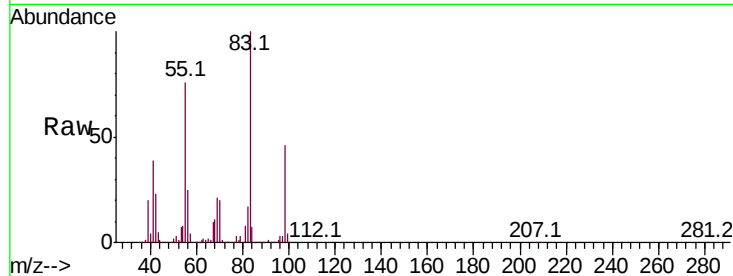




#39  
Methvlcvclohexane  
Concen: 21.447 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

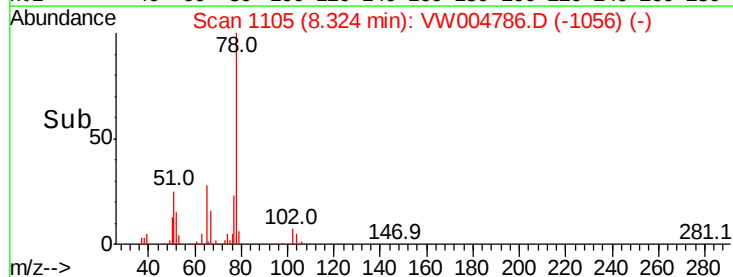
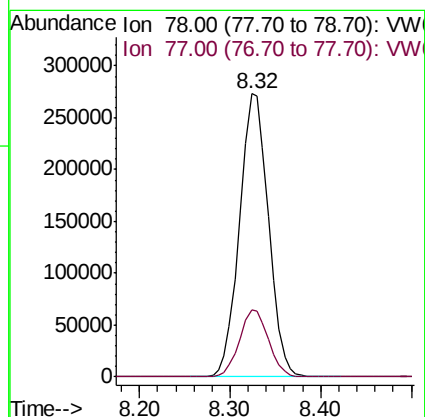
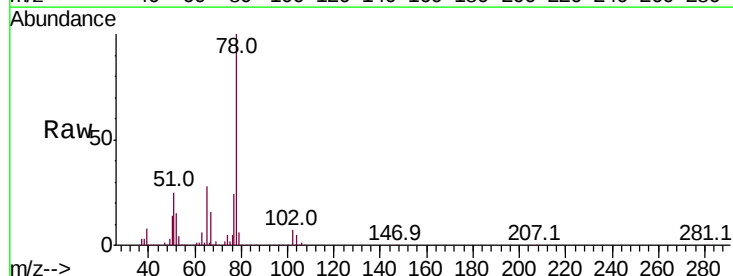
Instrument :  
MSVOA\_W  
ClientSampleId :

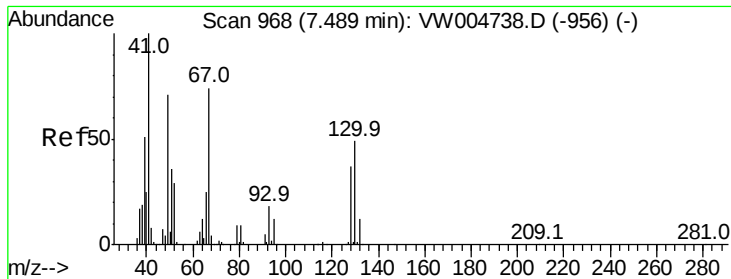
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 76.2  | 62.4  | 93.6  |
| 98      | 46.1  | 36.5  | 54.7  |



#40  
Benzene  
Concen: 20.585 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.5  | 19.0  | 28.6  |

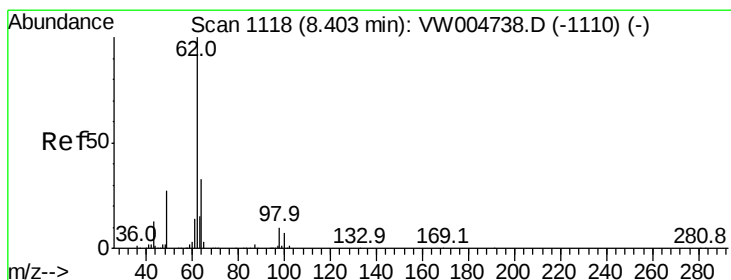
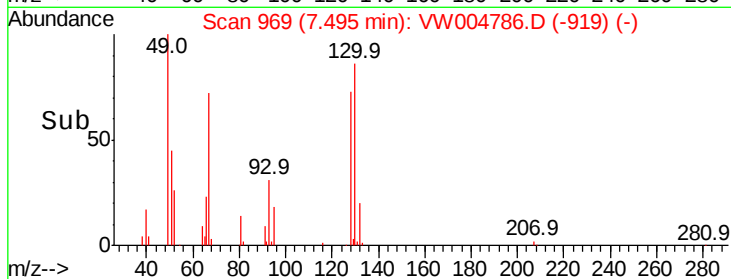
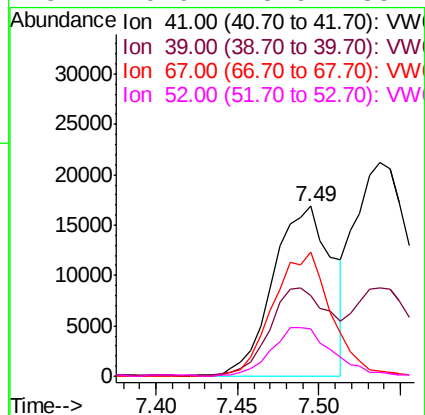
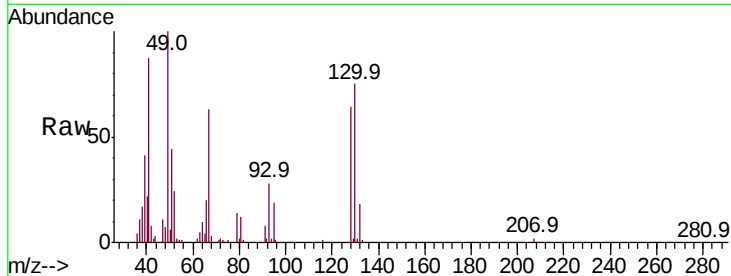




#41  
Methacrylonitrile  
Concen: 18.615 ug/l  
RT: 7.49 min Scan# 969  
Delta R.T. 0.01 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

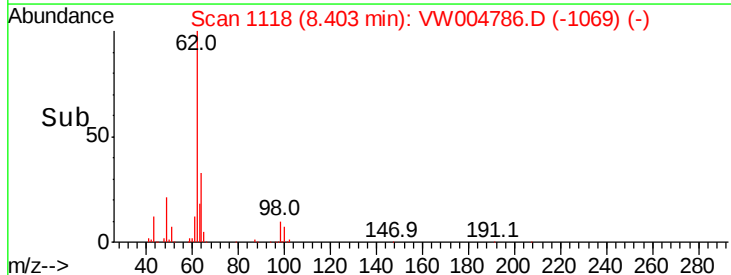
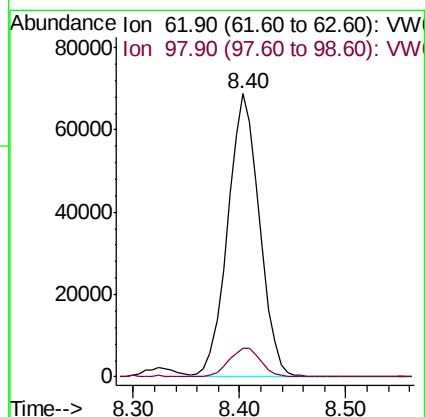
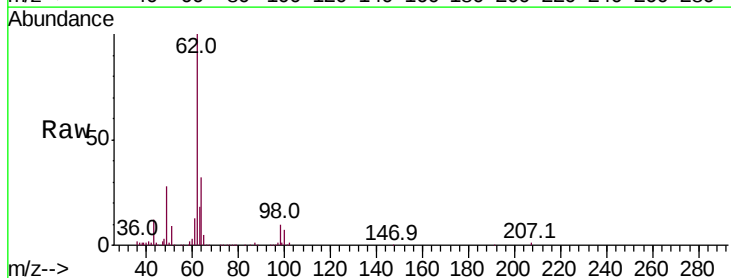
Instrument :  
MSVOA\_W  
ClientSampled :

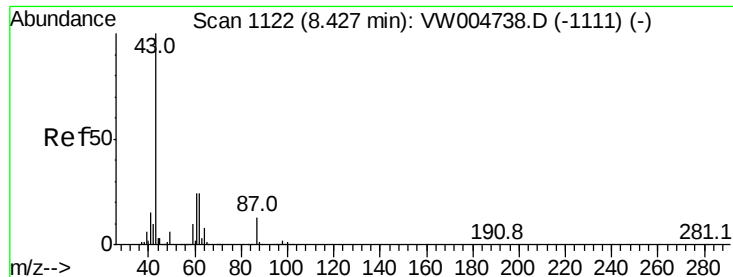
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 42546 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 53.7  | 41.0  | 61.4  |
| 67       | 72.0  | 59.5  | 89.3  |
| 52       | 29.9  | 23.6  | 35.4  |



#42  
1,2-Dichloroethane  
Concen: 19.068 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 143564 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.4  | 0.0   | 20.2   |





#43

Isopropyl Acetate

Concen: 17.188 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :  
MSVOA\_W  
ClientSampleId :

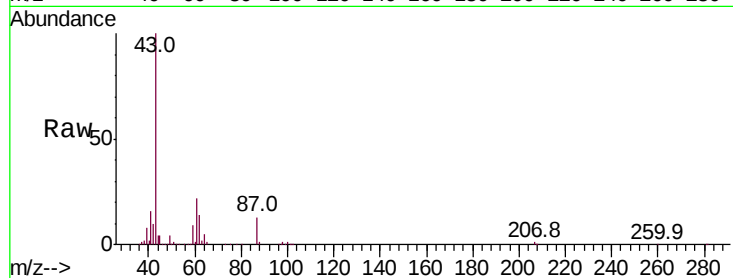
Tot Ion: 43 Resp: 124341

Ion Ratio Lower Upper

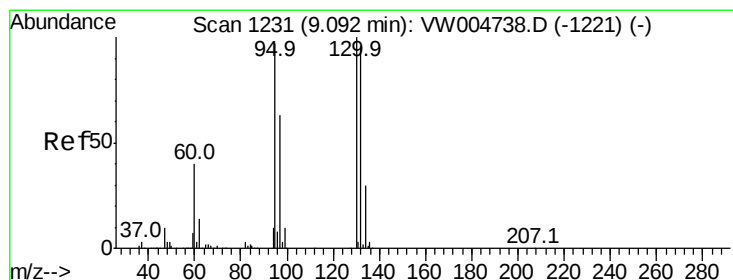
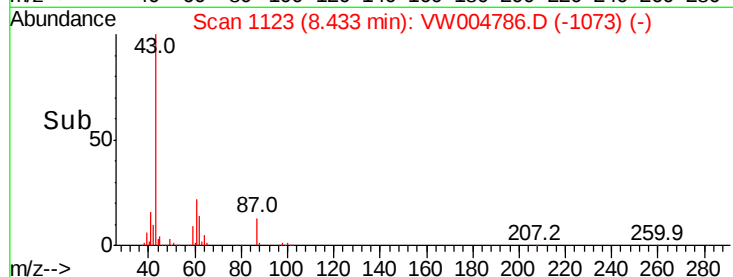
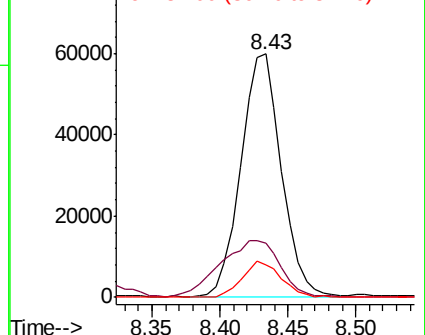
43 100

61 34.7 26.2 39.4

87 14.3 10.9 16.3



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



#44

Trichloroethene

Concen: 21.147 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VW004786.D

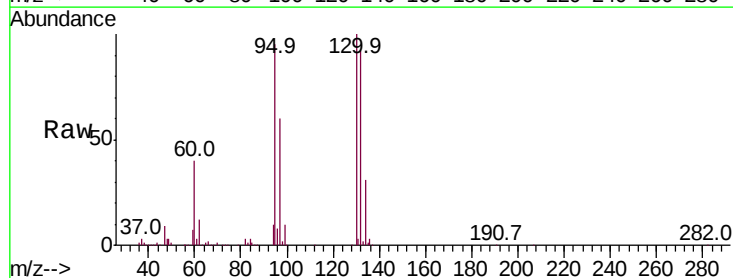
Acq: 20 Aug 2018 13:11

Tgt Ion:130 Resp: 157610

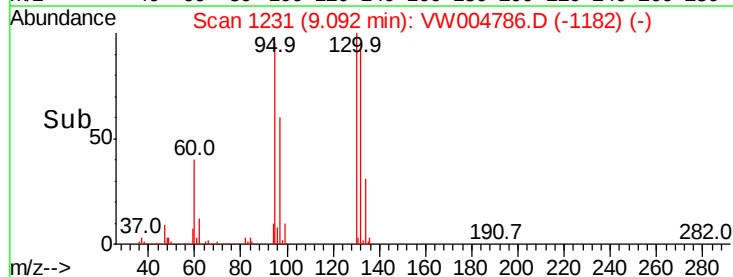
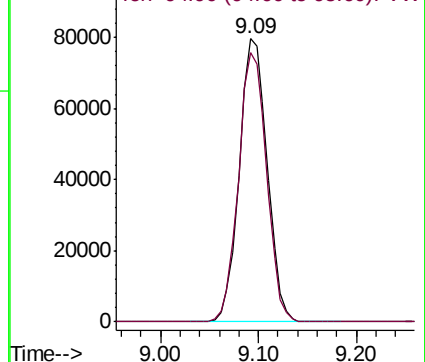
Ion Ratio Lower Upper

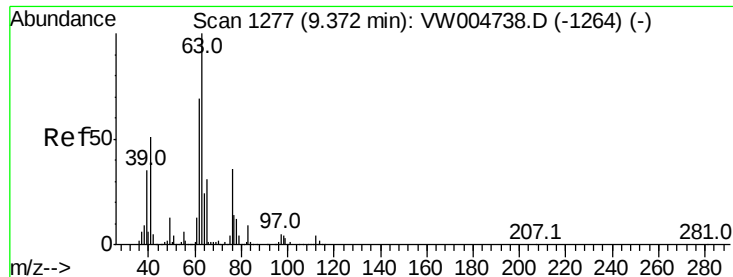
130 100

95 95.2 0.0 194.4



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





#45

1,2-Dichloropropane

Concen: 20.009 ug/l

RT: 9.37 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

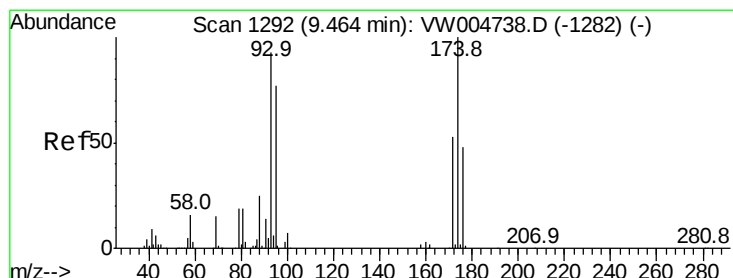
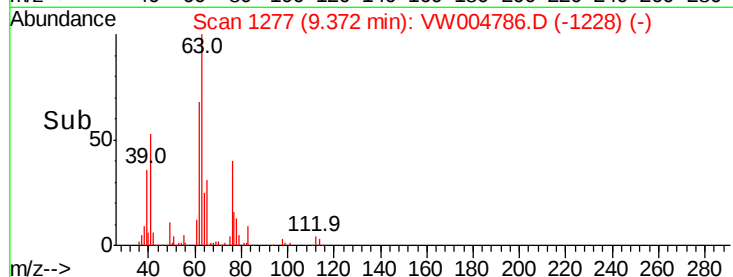
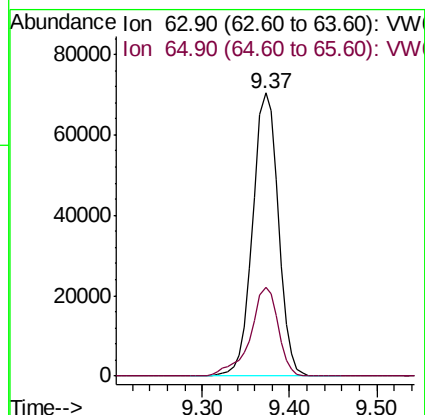
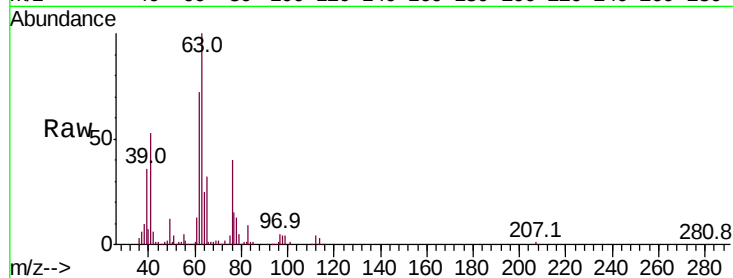
ClientSampleId :

Tot Ion: 63 Resp: 143705

Ion Ratio Lower Upper

63 100

65 31.6 24.6 37.0



#46

Dibromomethane

Concen: 18.819 ug/l

RT: 9.46 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

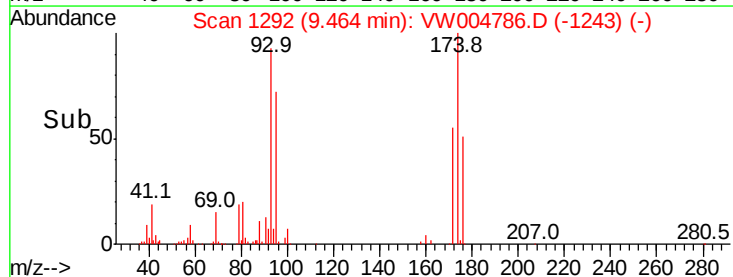
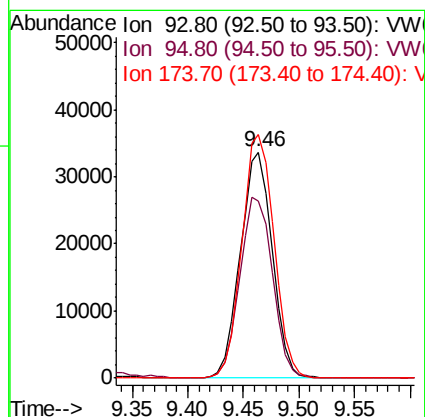
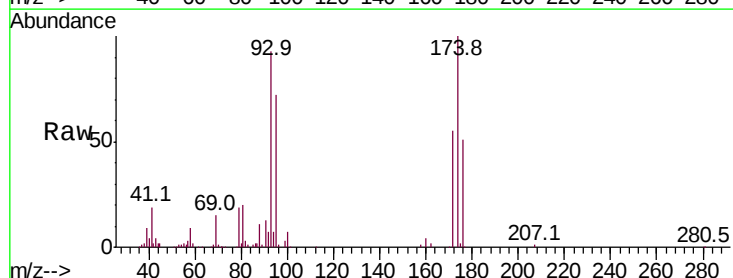
Tgt Ion: 93 Resp: 66961

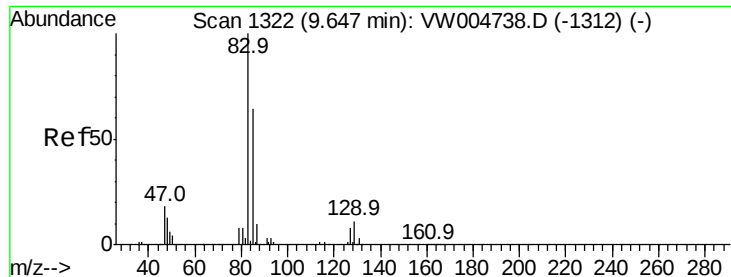
Ion Ratio Lower Upper

93 100

95 82.1 66.6 99.8

174 109.1 85.3 127.9





#47

Bromodichloromethane

Concen: 19.766 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampleId :

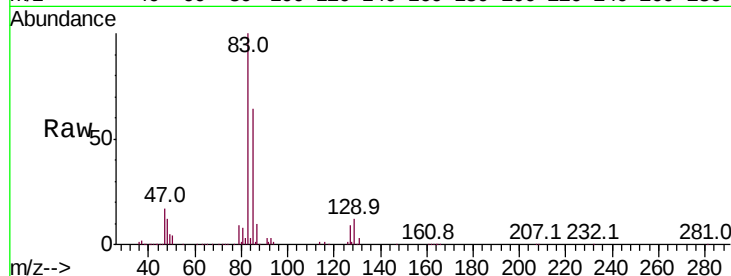
Tot Ion: 83 Resp: 167959

Ion Ratio Lower Upper

83 100

85 64.4 51.2 76.8

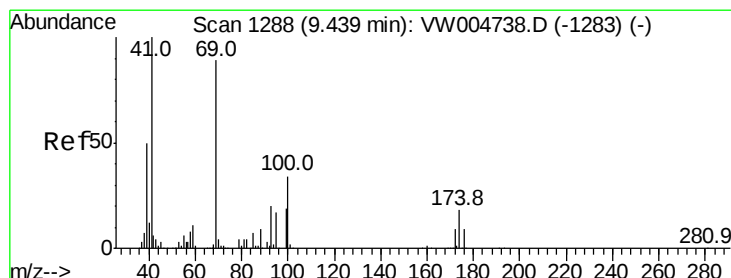
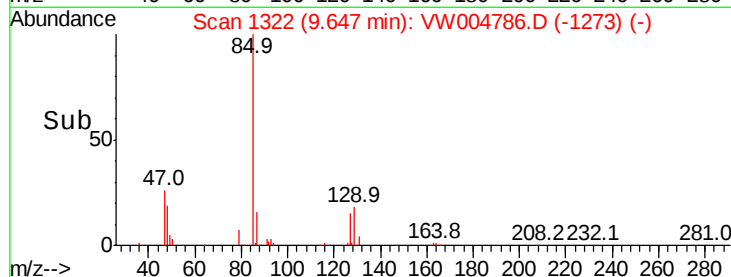
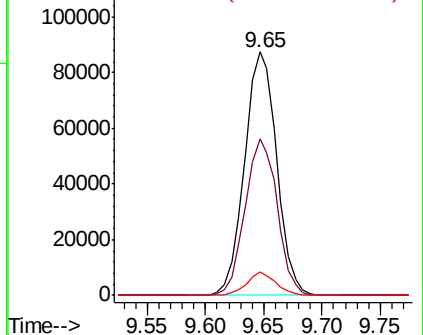
127 9.4 6.7 10.1



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: 18.063 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

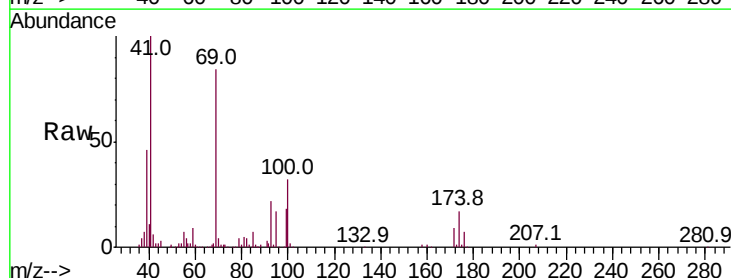
Tgt Ion: 41 Resp: 61313

Ion Ratio Lower Upper

41 100

69 91.7 75.2 112.8

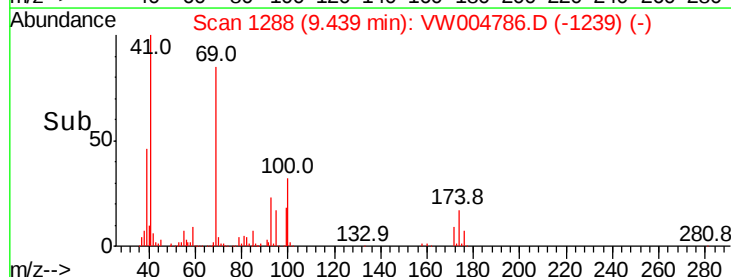
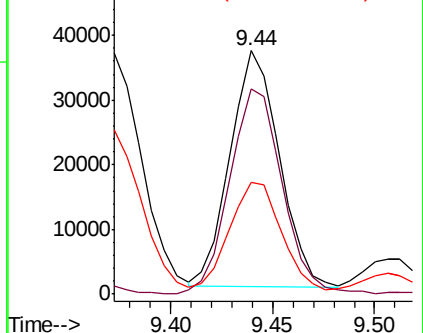
39 47.5 39.8 59.6

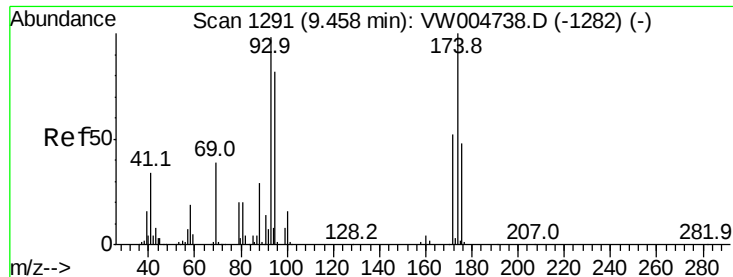


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

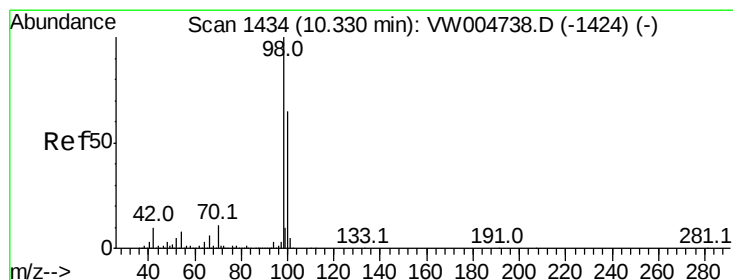
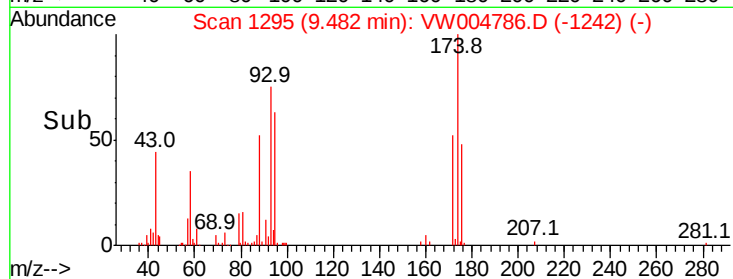
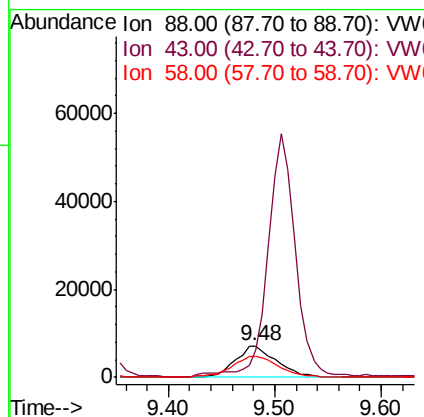
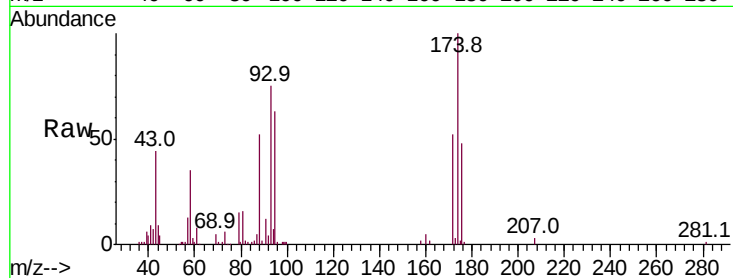




#49  
1,4-Dioxane  
Concen: 373.138 ug/l  
RT: 9.48 min Scan# 1295  
Delta R.T. 0.02 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

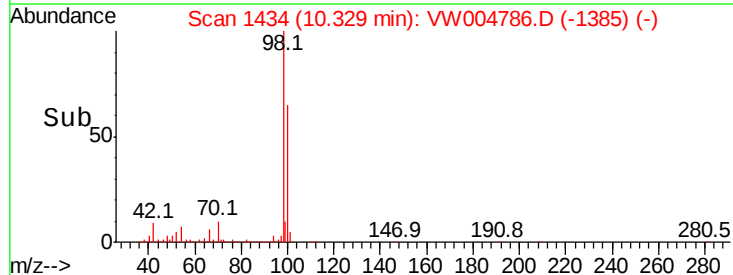
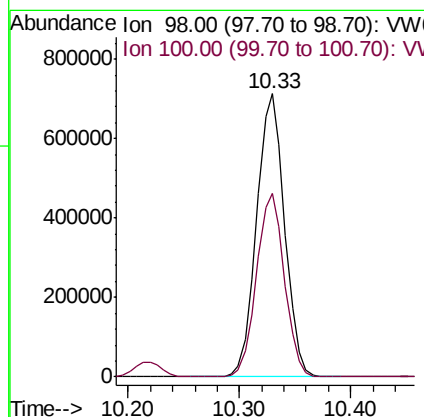
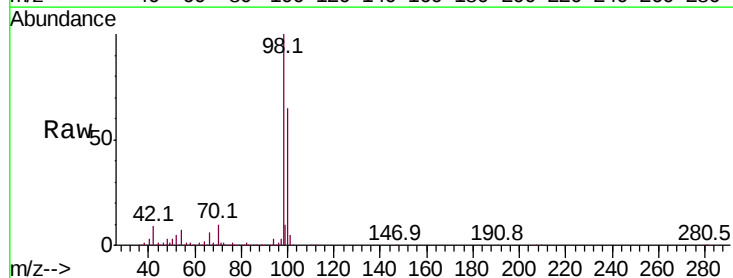
Instrument :  
MSVOA\_W  
ClientSampleId :

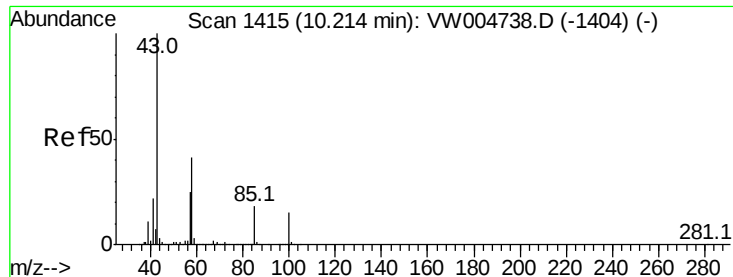
Tot Ion: 88 Resp: 19397  
Ion Ratio Lower Upper  
88 100  
43 0.0 22.9 34.3#  
58 76.2 60.0 90.0



#50  
Toluene-d8  
Concen: 50.929 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion: 98 Resp: 1246118  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 85.556 ug/l

RT: 10.21 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

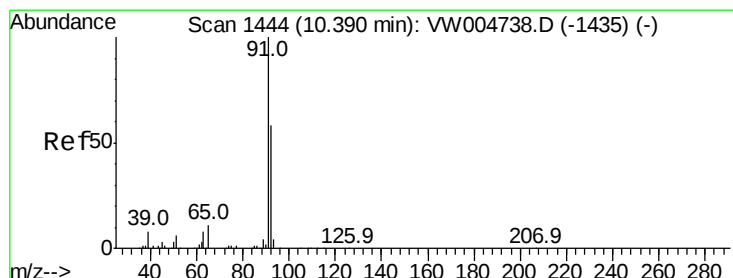
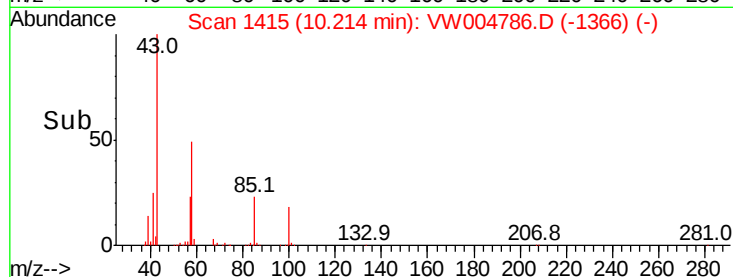
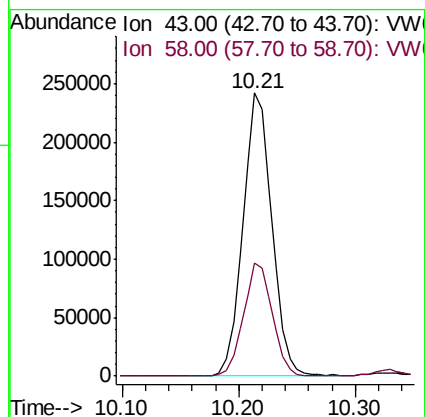
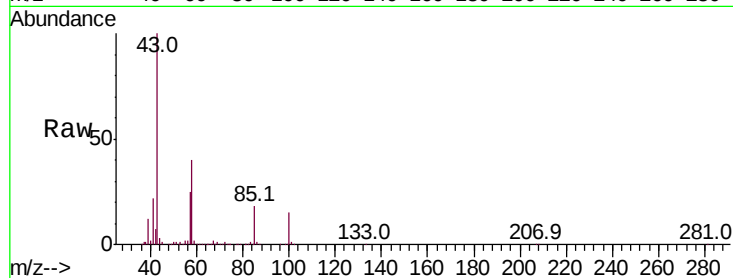
ClientSampled :

Tot Ion: 43 Resp: 418295

Ion Ratio Lower Upper

43 100

58 40.2 32.7 49.1



#52

Toluene

Concen: 21.306 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004786.D

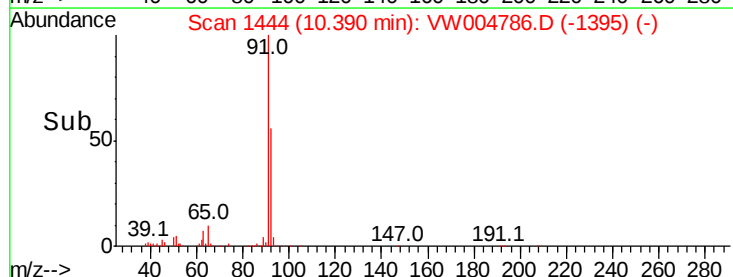
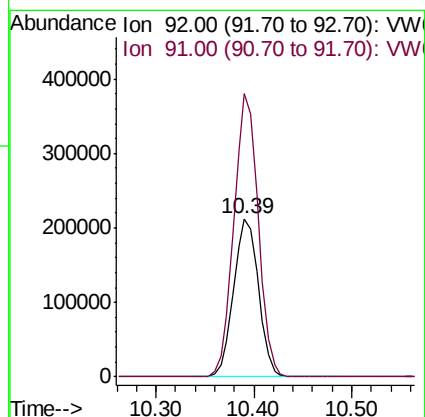
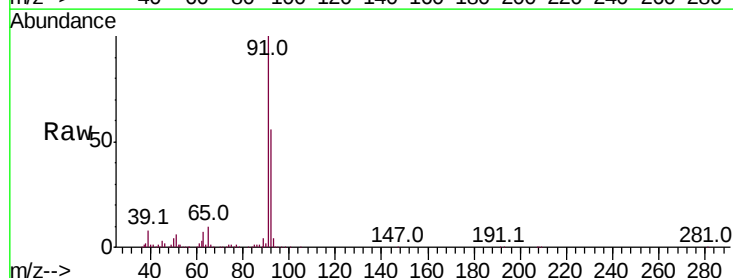
Acq: 20 Aug 2018 13:11

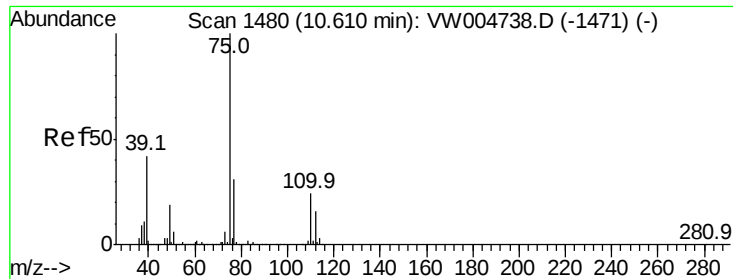
Tgt Ion: 92 Resp: 375177

Ion Ratio Lower Upper

92 100

91 174.5 138.3 207.5





#53

t-1,3-Dichloropropene

Concen: 19.377 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

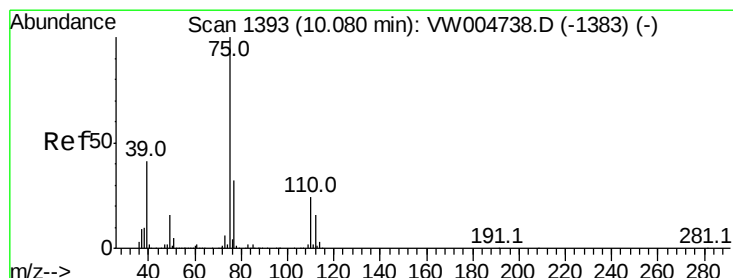
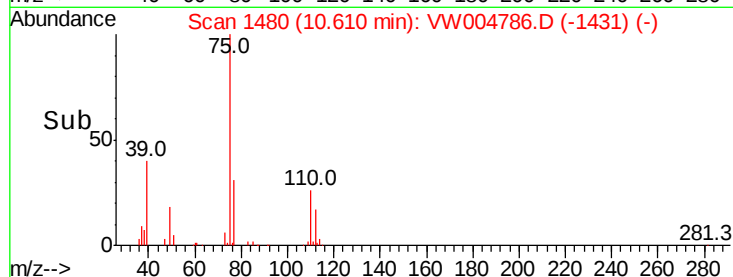
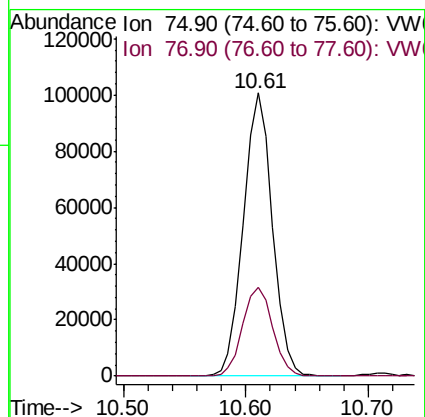
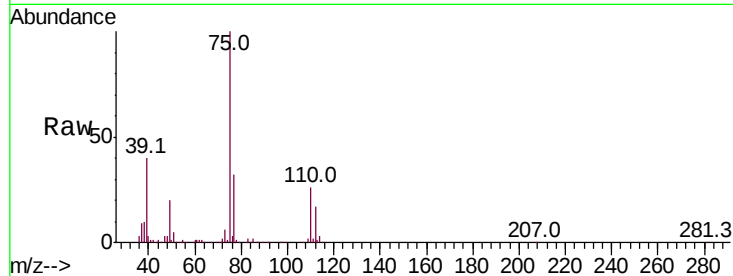
ClientSampled :

Tot Ion: 75 Resp: 165894

Ion Ratio Lower Upper

75 100

77 31.5 24.8 37.2



#54

cis-1,3-Dichloropropene

Concen: 19.846 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

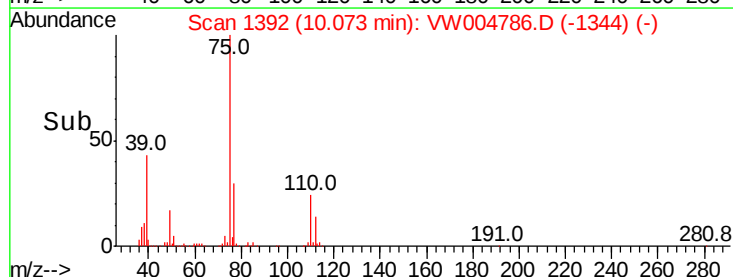
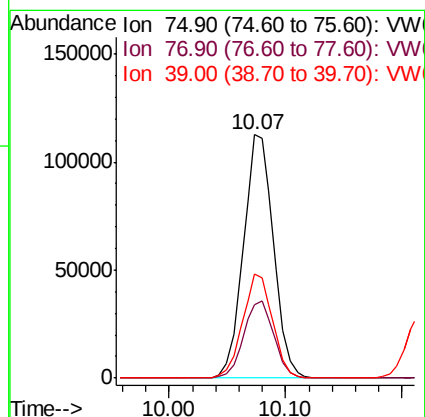
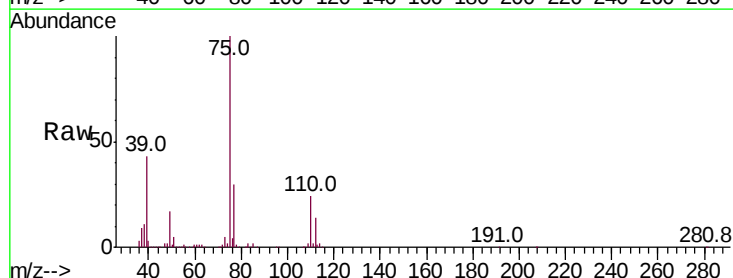
Tgt Ion: 75 Resp: 202555

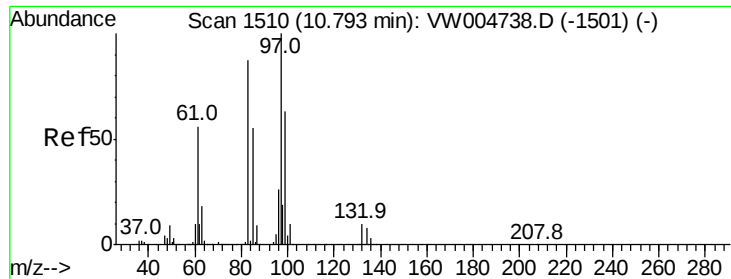
Ion Ratio Lower Upper

75 100

77 30.2 25.6 38.4

39 42.4 33.0 49.4

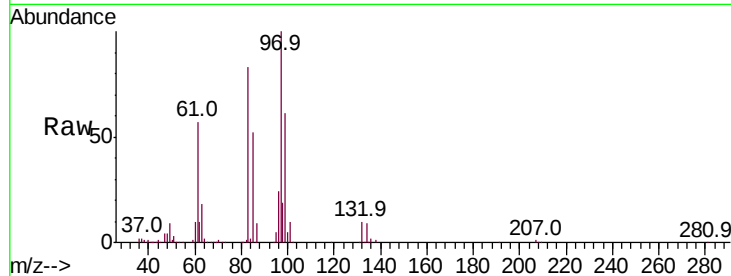




#55  
 1,1,2-Trichloroethane  
 Concen: 19.387 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Instrument :  
 MSVOA\_W  
 ClientSampled :

| Tot Ion | 97    | Resp  | 98052 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 82.9  | 69.4  | 104.2 |
| 85      | 52.5  | 44.3  | 66.5  |
| 99      | 61.2  | 50.2  | 75.2  |



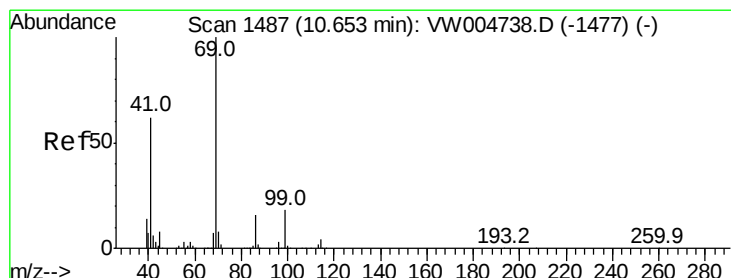
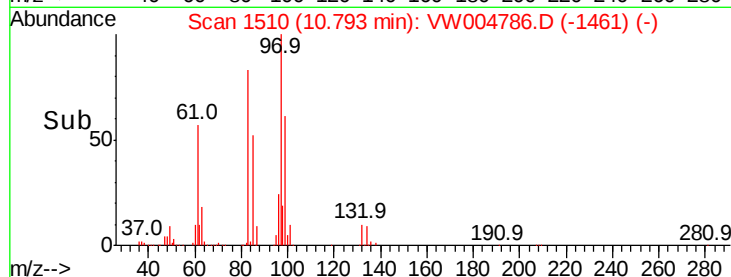
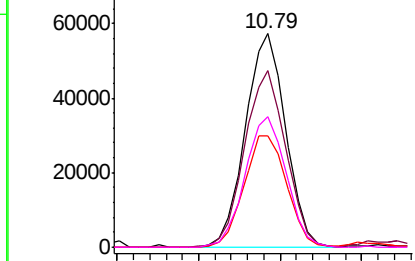
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

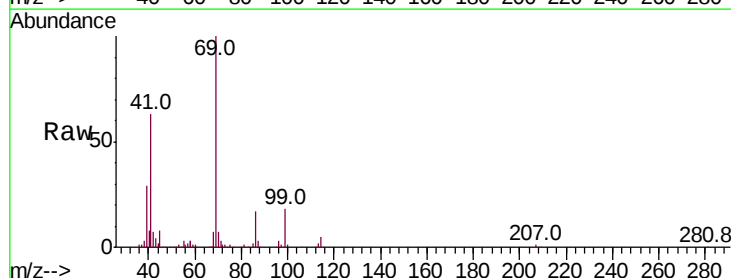
Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56  
 Ethyl methacrylate  
 Concen: 18.214 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. 0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

| Tgt Ion | 69    | Resp  | 107039 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 69      | 100   |       |        |
| 41      | 62.9  | 50.7  | 76.1   |
| 39      | 27.1  | 21.4  | 32.2   |

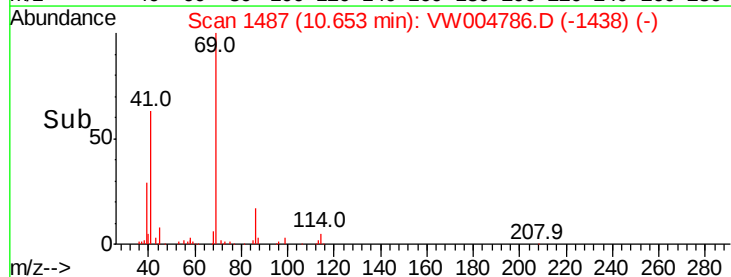
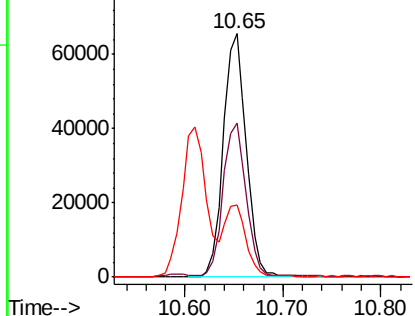


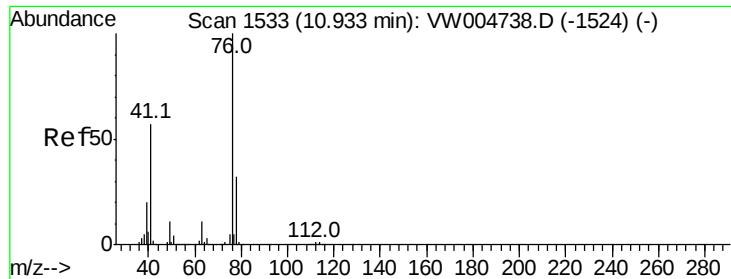
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 18.980 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. 0.01 min

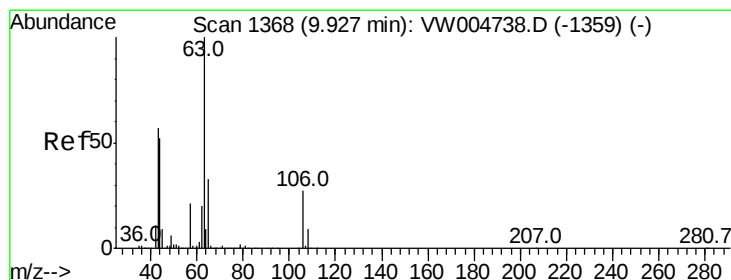
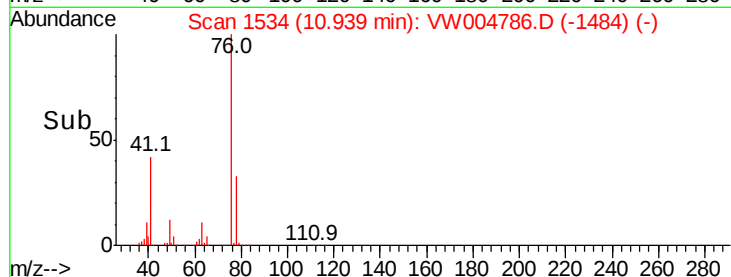
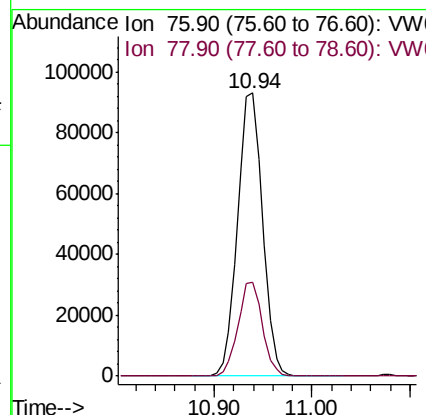
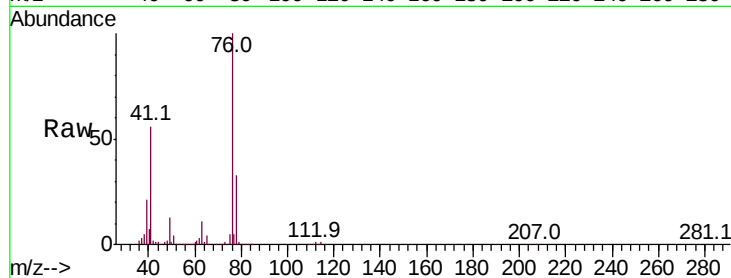
Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 76 Resp: 165705

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.4  | 25.9  | 38.9  |



#58

2-Chloroethyl Vinyl ether

Concen: 97.030 ug/l

RT: 9.93 min Scan# 1368

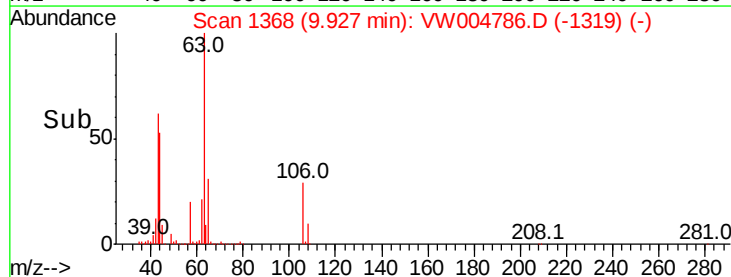
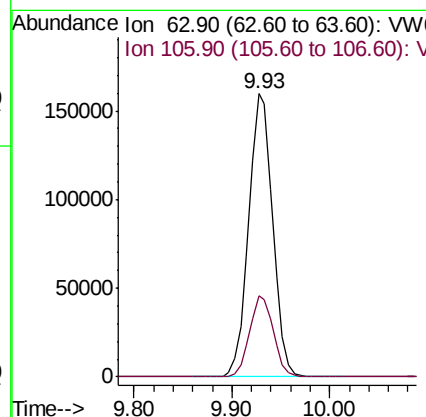
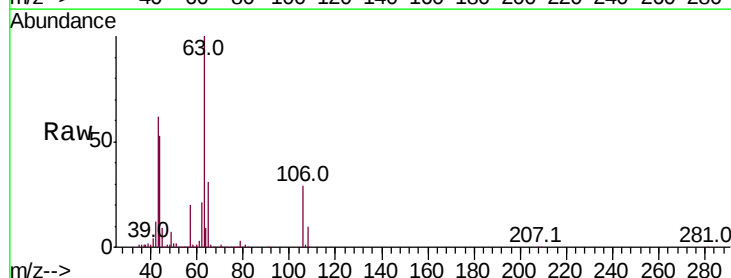
Delta R.T. -0.00 min

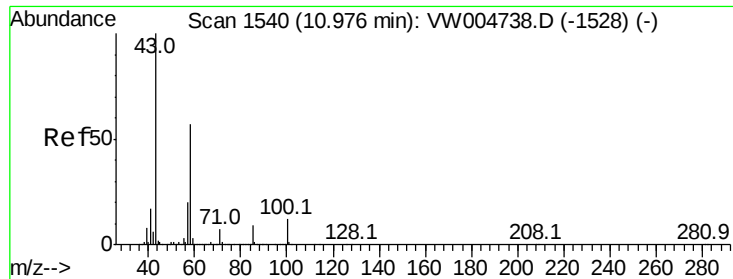
Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Tgt Ion: 63 Resp: 271023

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 106 | 28.3  | 22.1  | 33.1  |

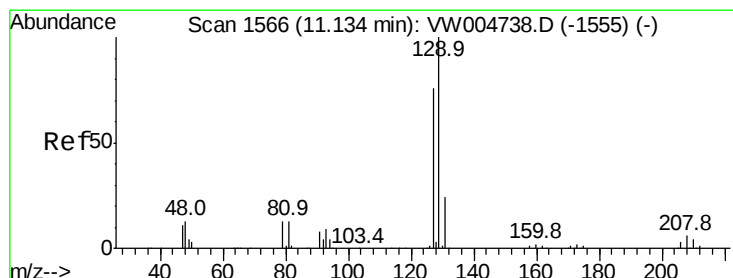
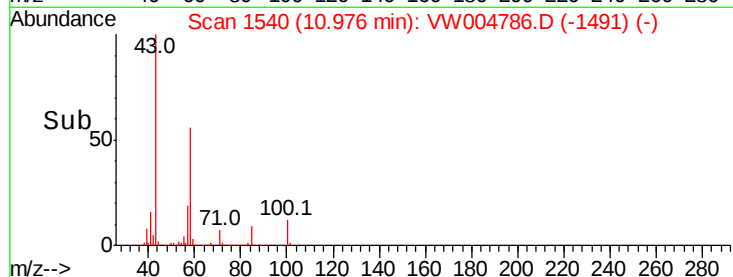
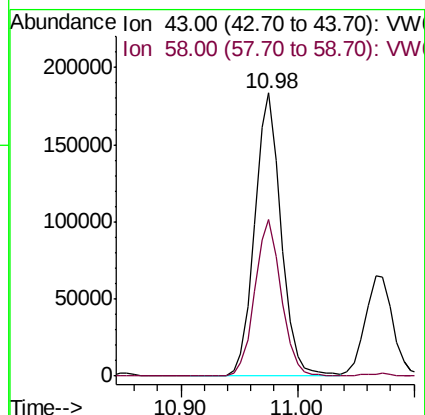
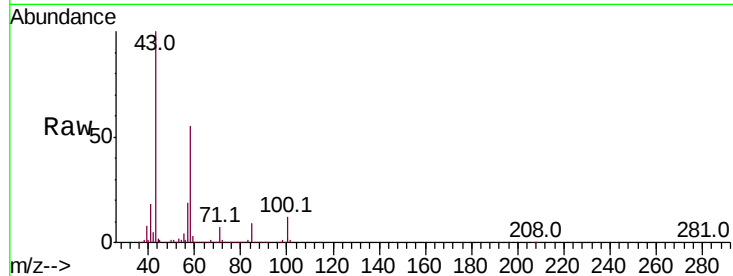




#59  
2-Hexanone  
Concen: 87.349 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

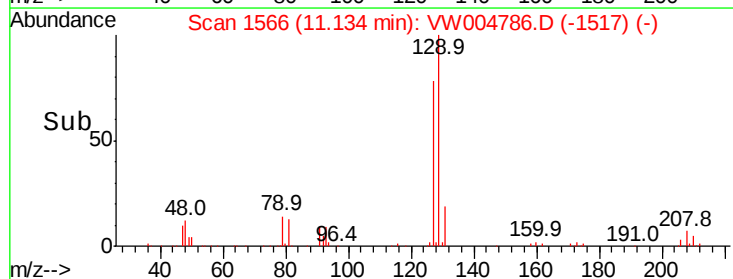
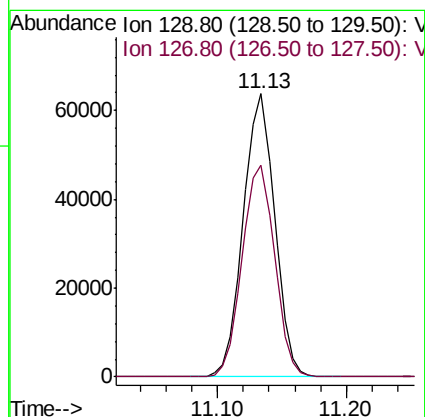
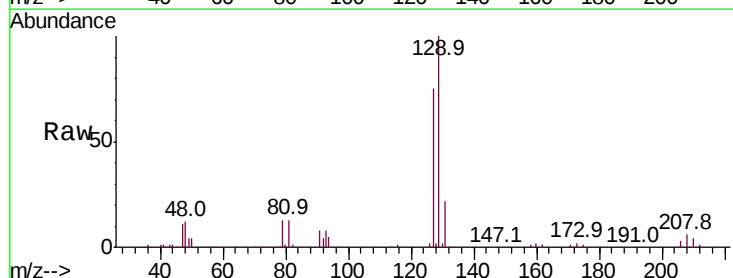
Instrument :  
MSVOA\_W  
ClientSampleId :

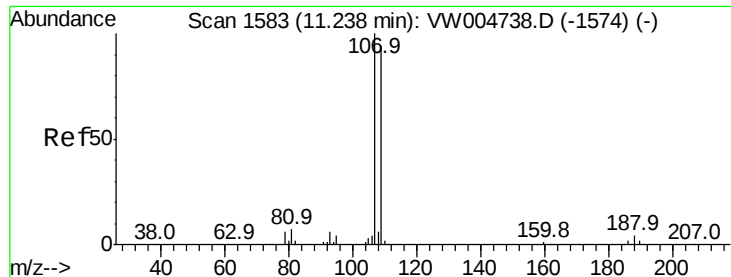
Tot Ion: 43 Resp: 289360  
Ion Ratio Lower Upper  
43 100  
58 55.6 28.1 84.4



#60  
Dibromochloromethane  
Concen: 19.035 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:129 Resp: 108011  
Ion Ratio Lower Upper  
129 100  
127 77.1 38.5 115.5





#61

1,2-Dibromoethane

Concen: 18.757 ug/l

RT: 11.24 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

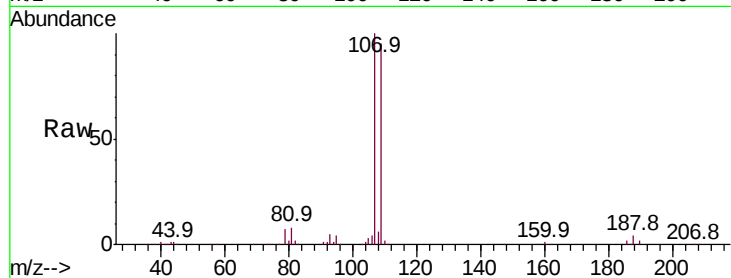
ClientSampleId :

Tot Ion:107 Resp: 90682

Ion Ratio Lower Upper

107 100

109 94.4 75.5 113.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

60000

50000

40000

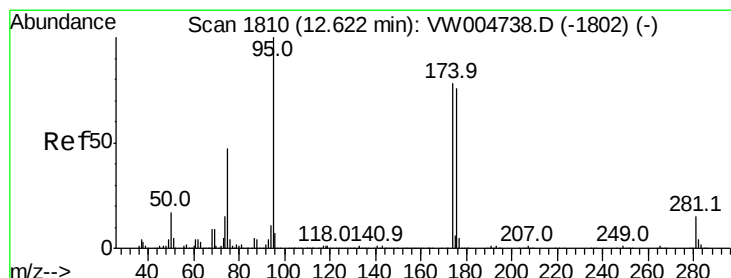
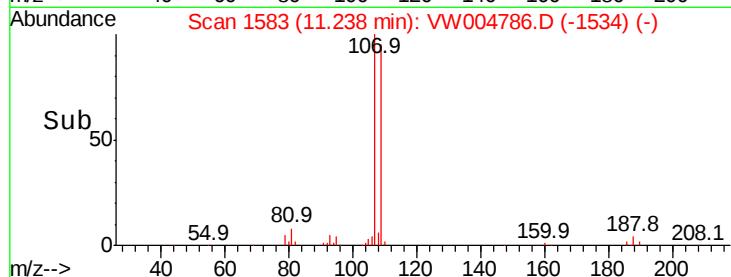
30000

20000

10000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.319 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

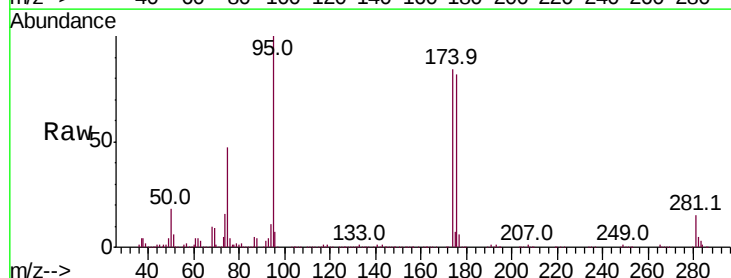
Tgt Ion: 95 Resp: 425334

Ion Ratio Lower Upper

95 100

174 86.5 0.0 165.8

176 83.9 0.0 159.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

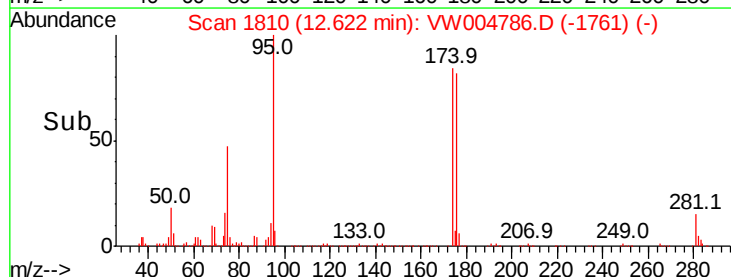
300000

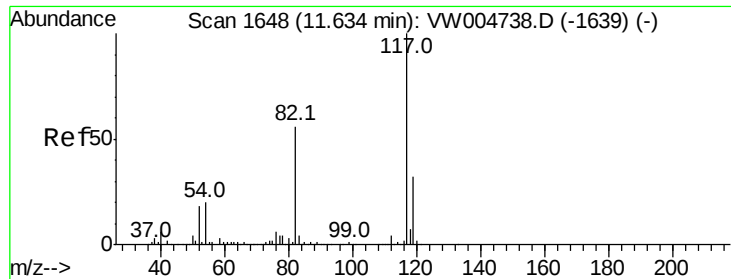
200000

100000

0

Time-->

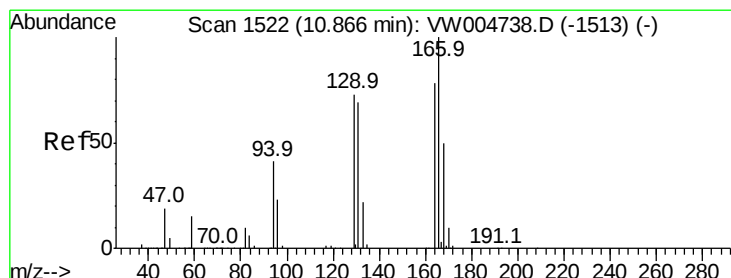
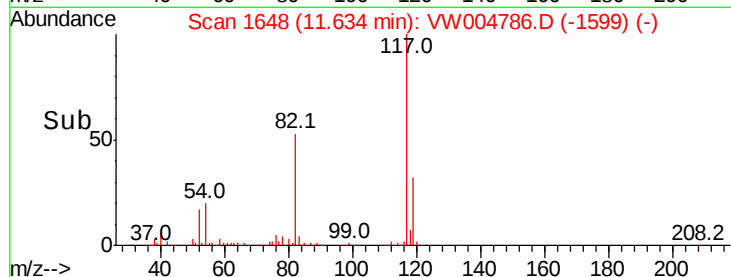
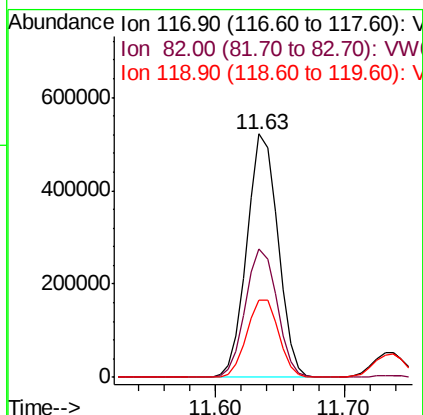
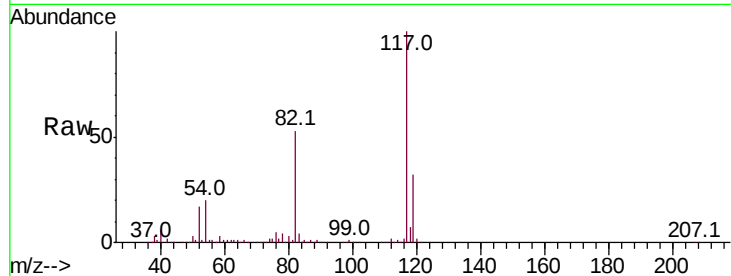




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

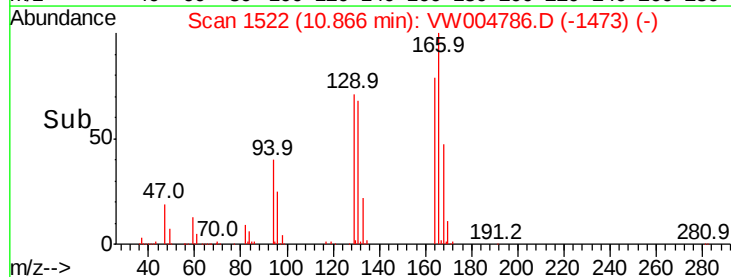
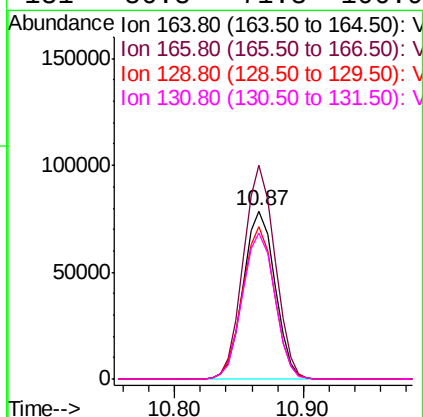
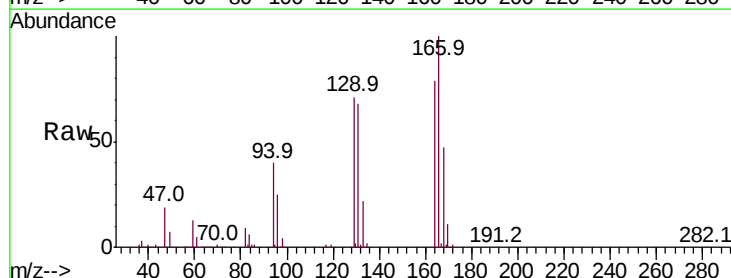
Instrument :  
MSVOA\_W  
ClientSampleId :

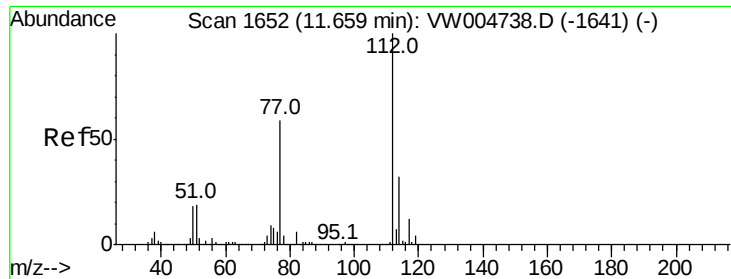
Tot Ion:117 Resp: 868060  
Ion Ratio Lower Upper  
117 100  
82 52.6 44.6 67.0  
119 31.8 25.6 38.4



#64  
Tetrachloroethene  
Concen: 22.596 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:164 Resp: 134053  
Ion Ratio Lower Upper  
164 100  
166 127.1 102.5 153.7  
129 90.3 75.1 112.7  
131 86.8 71.3 106.9





#65

Chlorobenzene

Concen: 21.027 ug/l

RT: 11.66 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

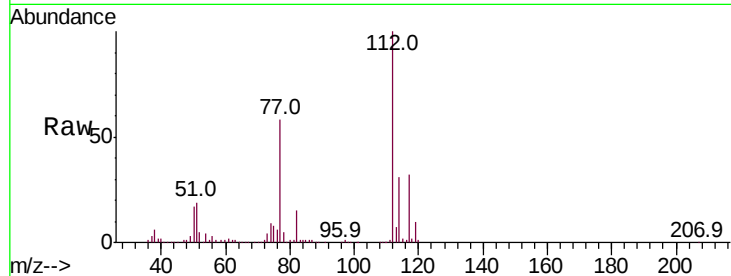
ClientSampled :

Tot Ion:112 Resp: 392849

Ion Ratio Lower Upper

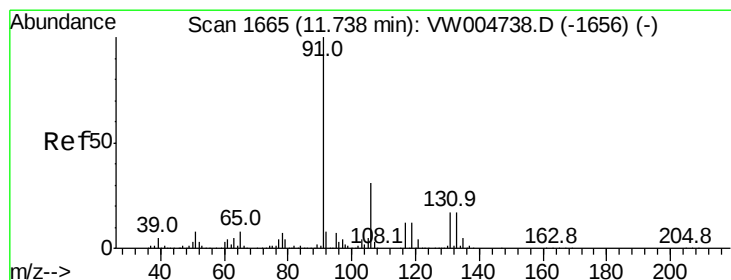
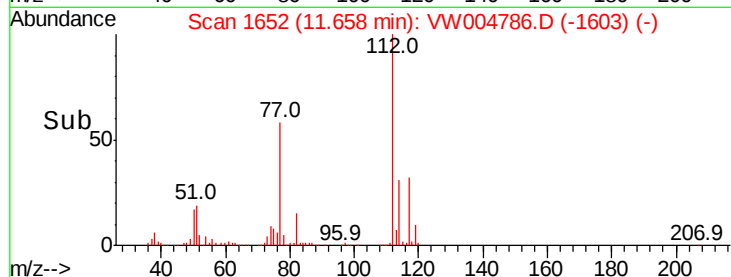
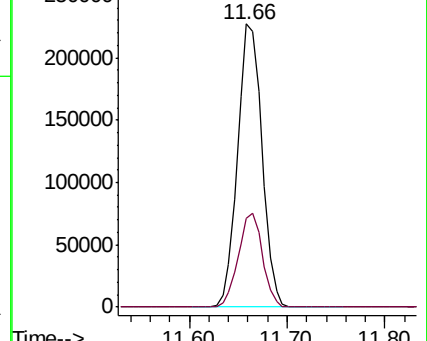
112 100

114 31.3 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.960 ug/l

RT: 11.73 min Scan# 1664

Delta R.T. -0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

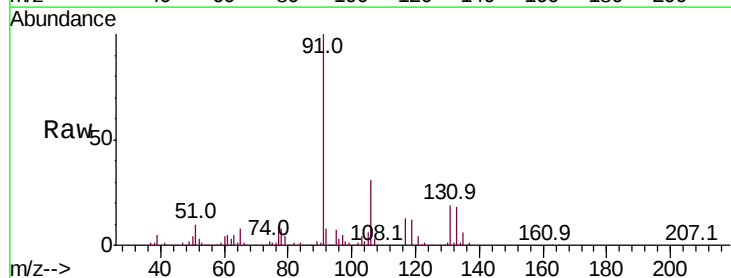
Tgt Ion:131 Resp: 132228

Ion Ratio Lower Upper

131 100

133 94.7 48.2 144.6

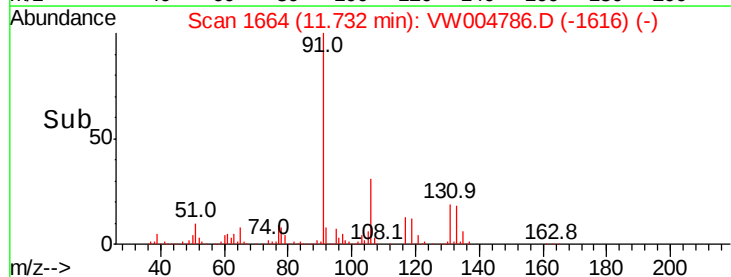
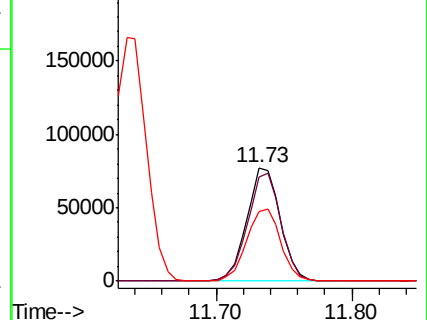
119 65.0 34.0 102.0

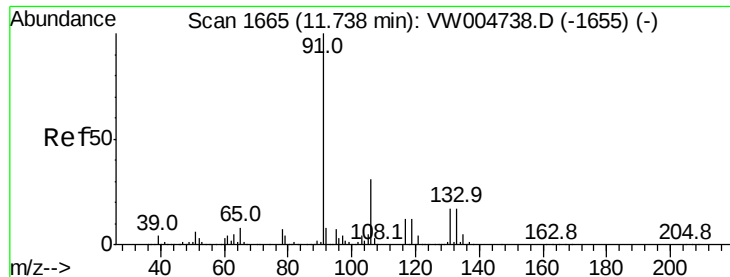


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

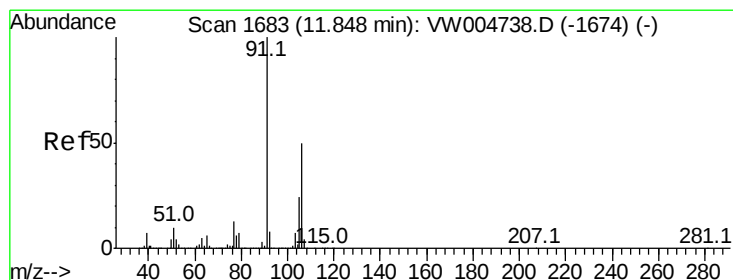
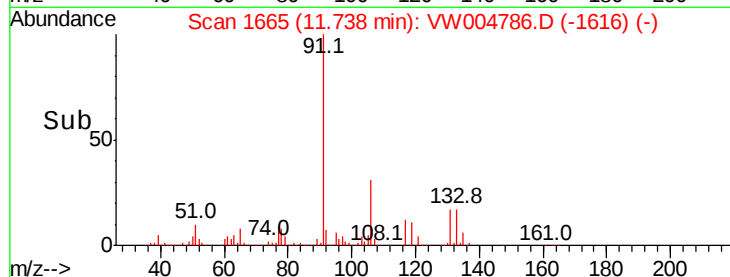
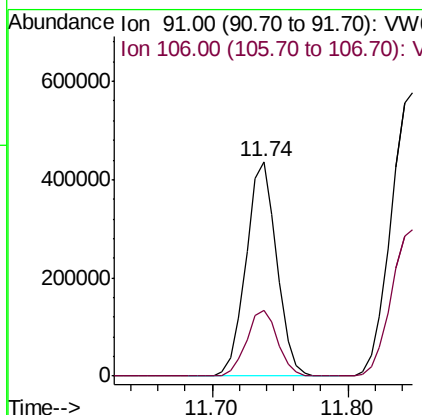
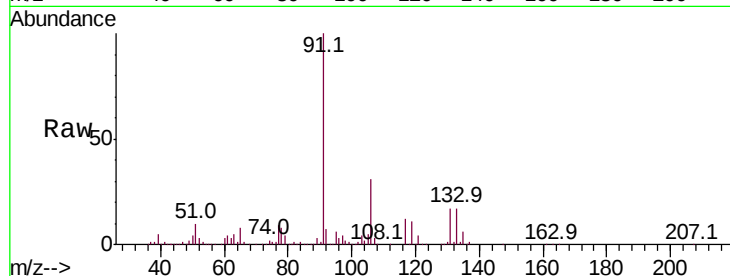




#67  
Ethyl Benzene  
Concen: 21.719 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

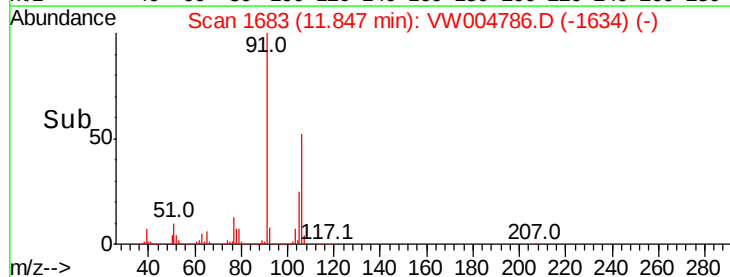
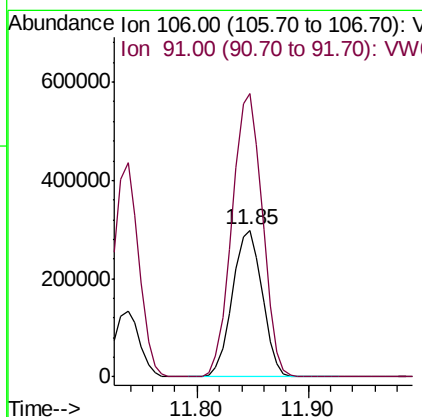
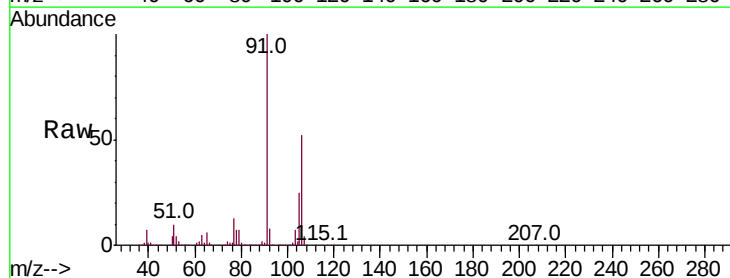
Instrument :  
MSVOA\_W  
ClientSampleId :

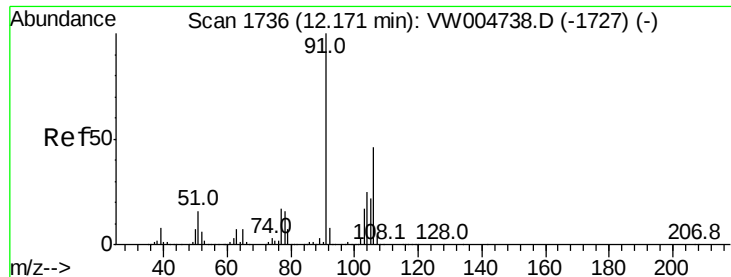
Tot Ion: 91 Resp: 687918  
Ion Ratio Lower Upper  
91 100  
106 30.6 24.9 37.3



#68  
m/p-Xylenes  
Concen: 45.014 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:106 Resp: 554692  
Ion Ratio Lower Upper  
106 100  
91 196.3 159.9 239.9

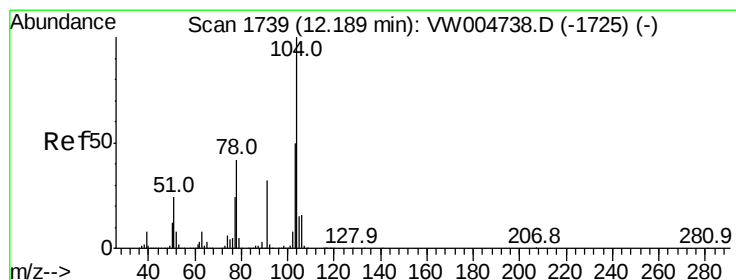
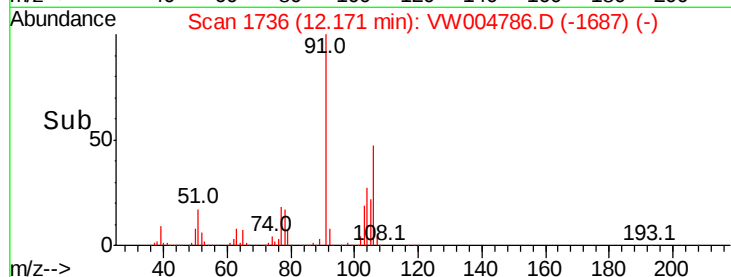
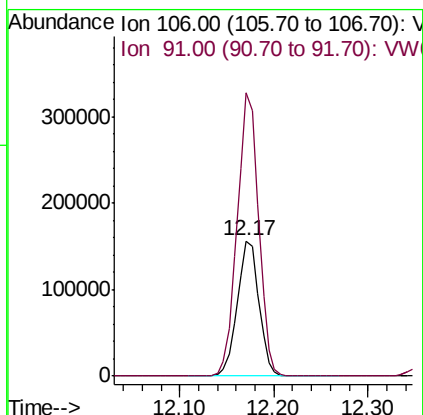
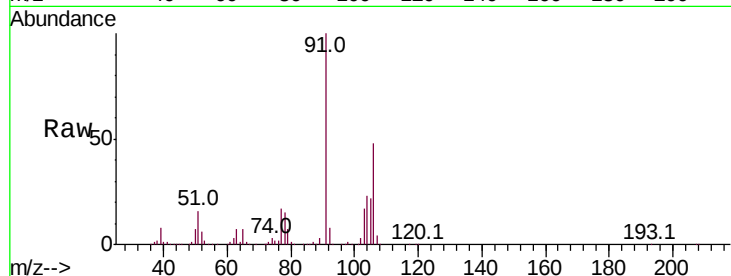




#69  
o-Xylene  
Concen: 21.890 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

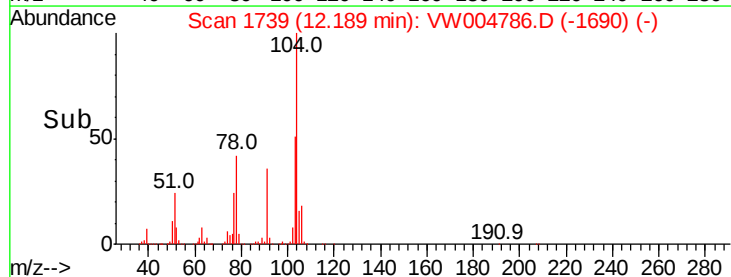
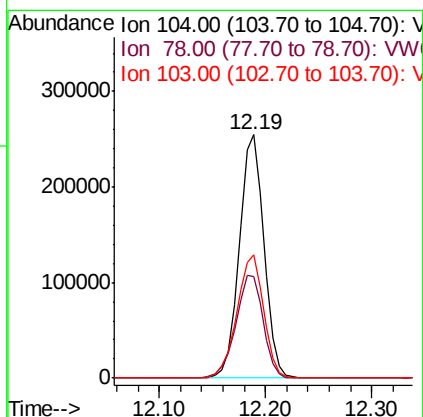
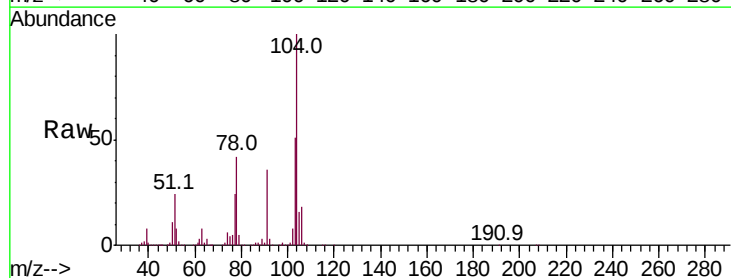
Instrument :  
MSVOA\_W  
ClientSampled :

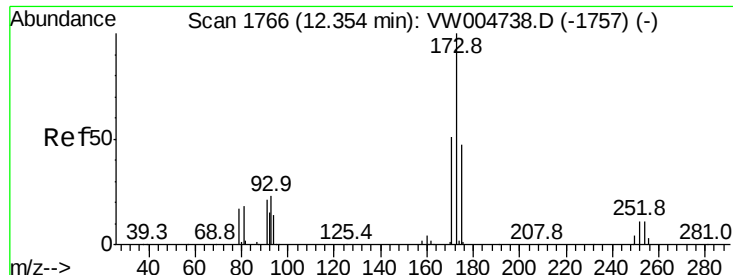
Tot Ion:106 Resp: 249720  
Ion Ratio Lower Upper  
106 100  
91 208.5 107.3 321.8



#70  
Styrene  
Concen: 21.642 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:104 Resp: 414706  
Ion Ratio Lower Upper  
104 100  
78 47.2 38.4 57.6  
103 55.0 44.1 66.1

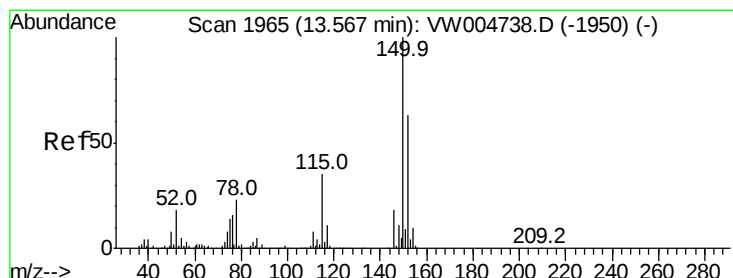
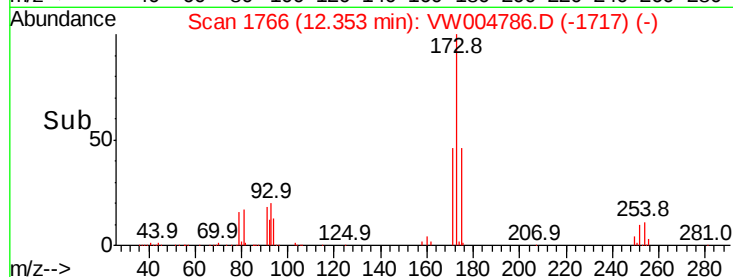
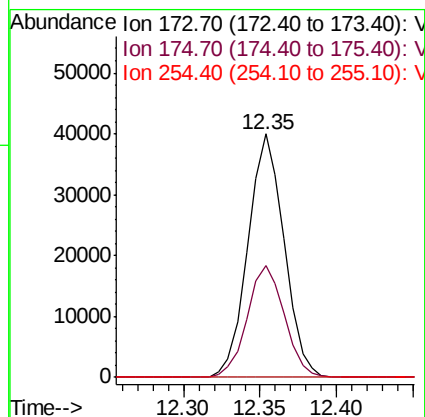
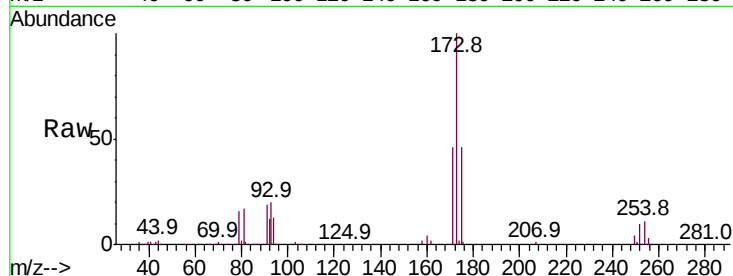




#71  
Bromoform  
Concen: 19.717 ug/l  
RT: 12.35 min Scan# 1766  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

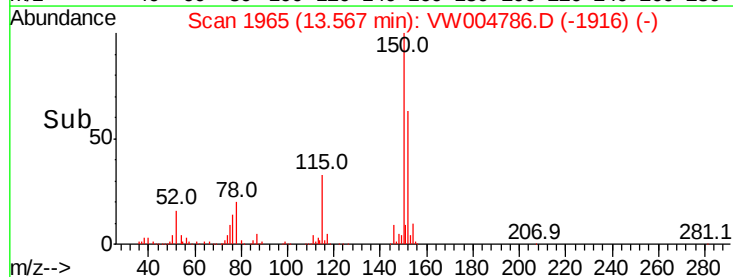
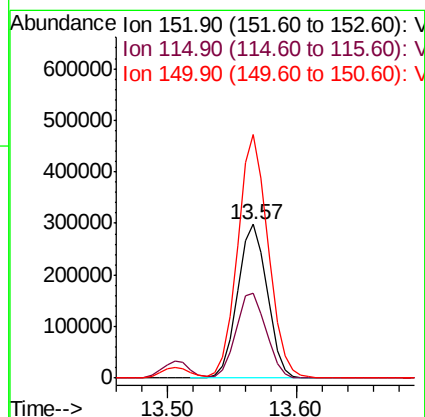
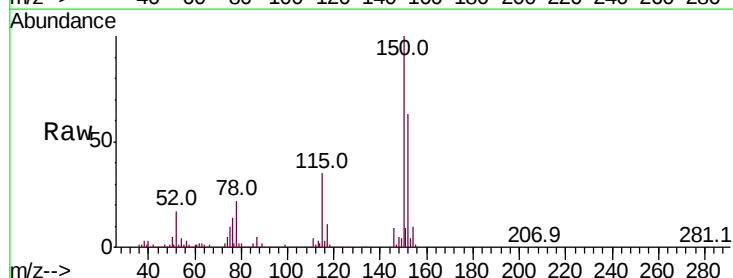
Instrument :  
MSVOA\_W  
ClientSampled :

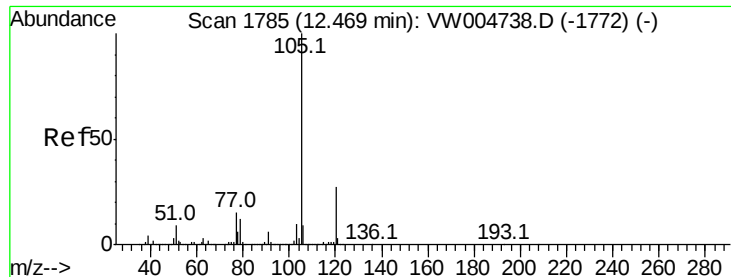
Tot Ion:173 Resp: 65652  
Ion Ratio Lower Upper  
173 100  
175 47.1 23.8 71.4  
254 0.2 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:152 Resp: 473901  
Ion Ratio Lower Upper  
152 100  
115 56.4 28.5 85.5  
150 162.9 0.0 344.8





#73

Isopropylbenzene

Concen: 21.979 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

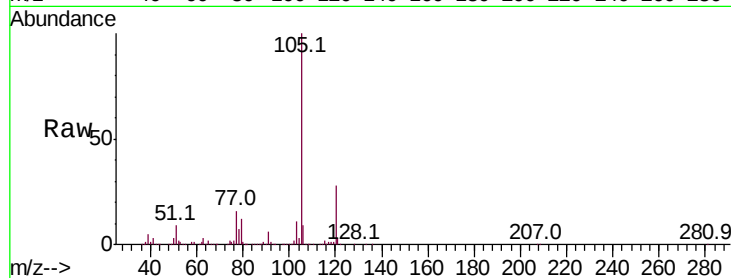
ClientSampleId :

Tot Ion:105 Resp: 708598

Ion Ratio Lower Upper

105 100

120 26.6 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

400000

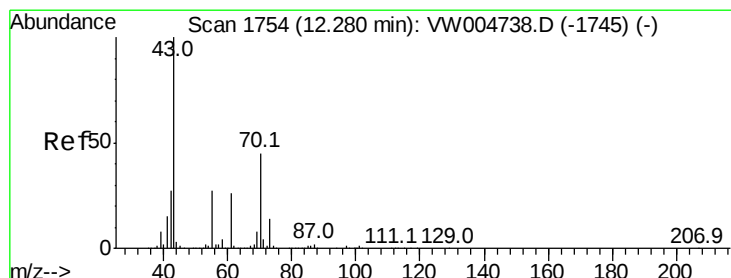
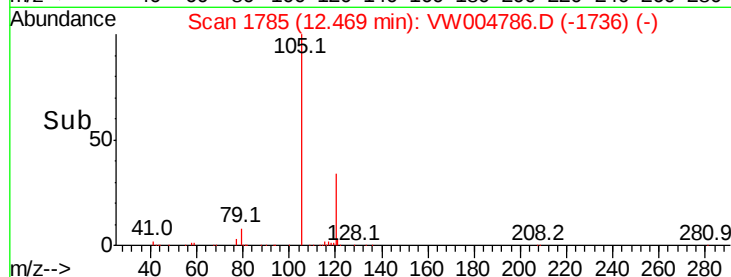
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 18.392 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Tgt Ion: 43 Resp: 118011

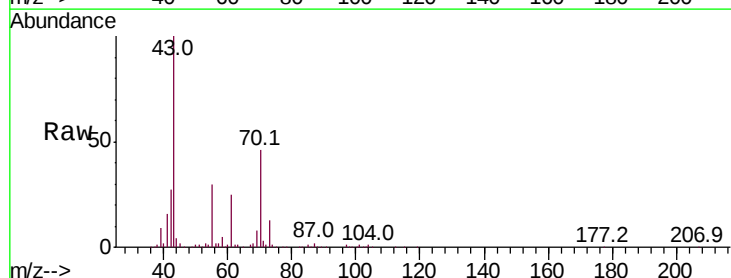
Ion Ratio Lower Upper

43 100

70 45.5 36.3 54.5

55 30.3 22.6 33.8

61 24.9 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

12.28

80000

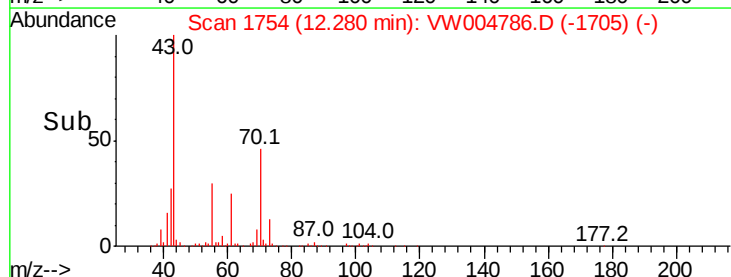
60000

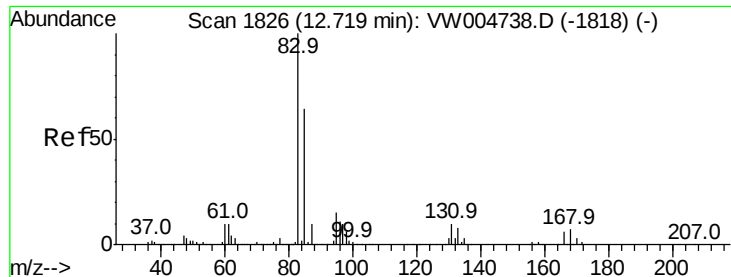
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 18.837 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

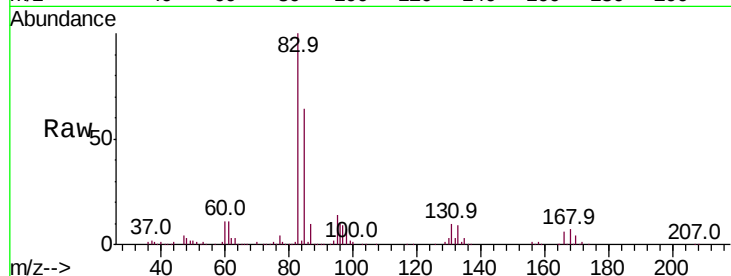
Tot Ion: 83 Resp: 112501

Ion Ratio Lower Upper

83 100

131 10.2 5.3 15.8

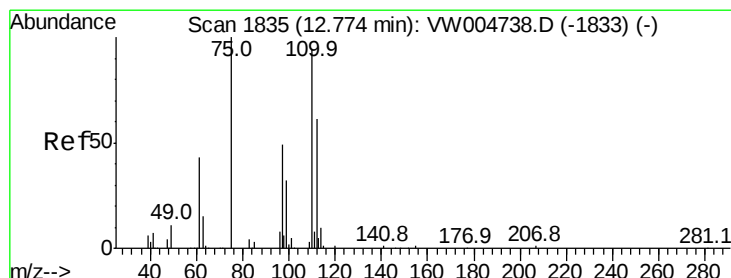
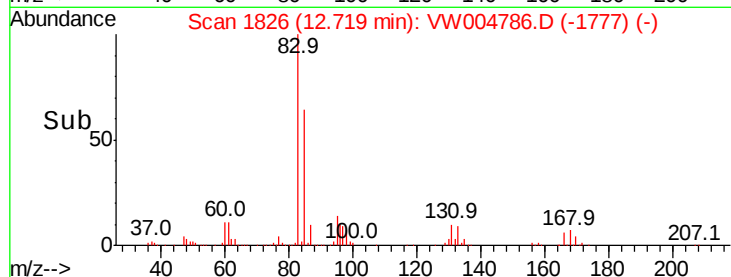
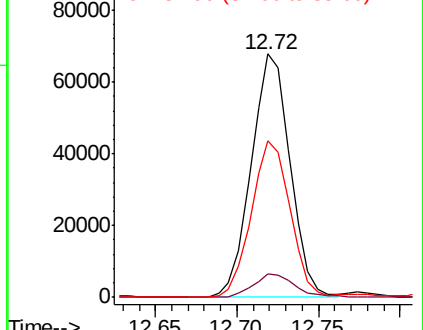
85 64.2 31.9 95.9



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: 34.842 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VW004786.D

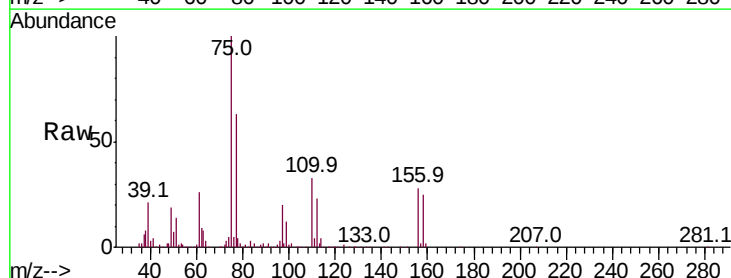
Acq: 20 Aug 2018 13:11

Tgt Ion: 75 Resp: 145555

Ion Ratio Lower Upper

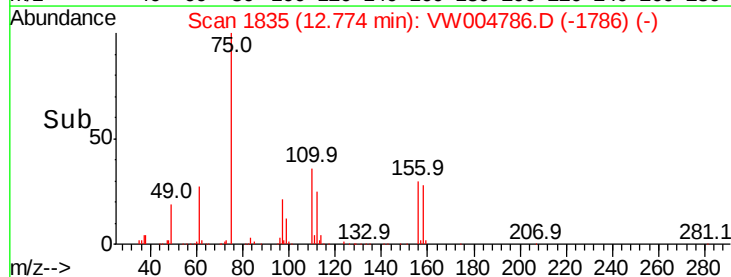
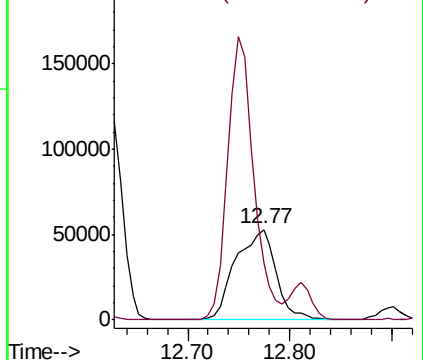
75 100

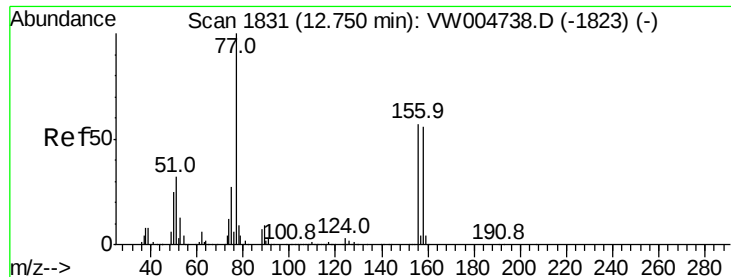
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.869 ug/l

RT: 12.75 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

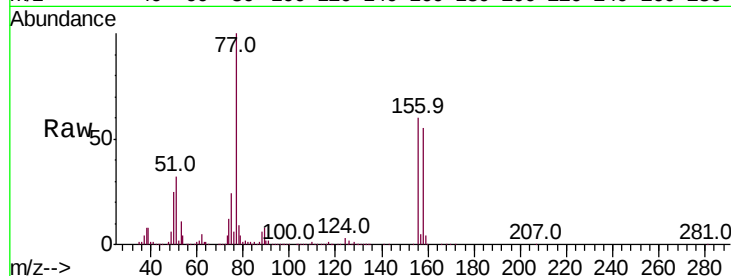
Tot Ion:156 Resp: 162853

Ion Ratio Lower Upper

156 100

77 181.1 94.2 282.4

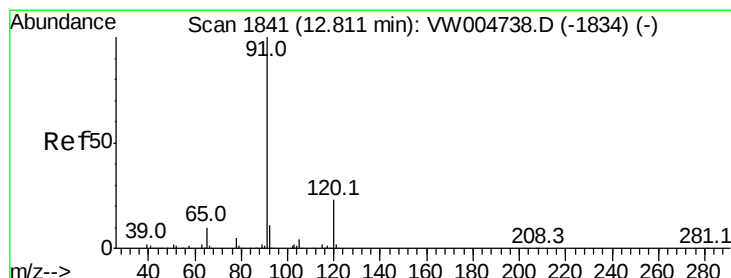
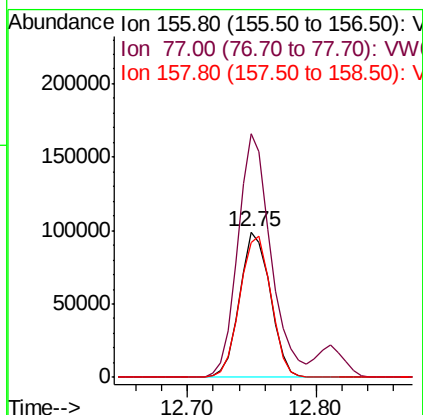
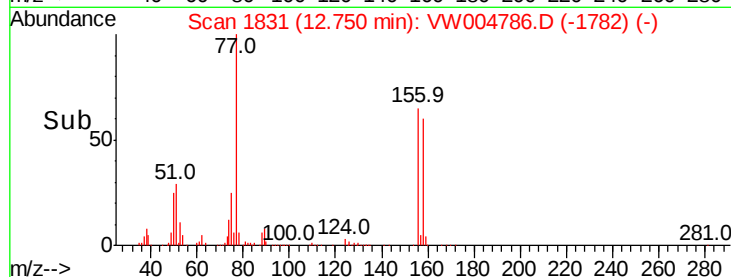
158 98.9 48.6 145.9



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: 22.185 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW004786.D

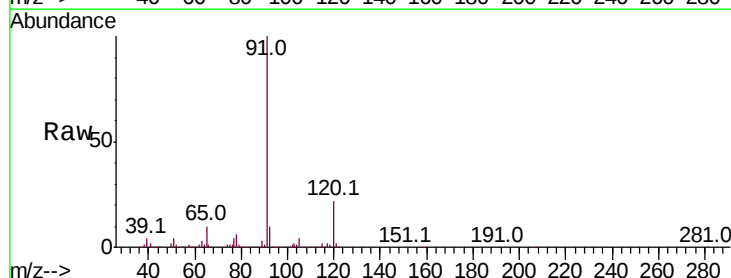
Acq: 20 Aug 2018 13:11

Tgt Ion: 91 Resp: 872784

Ion Ratio Lower Upper

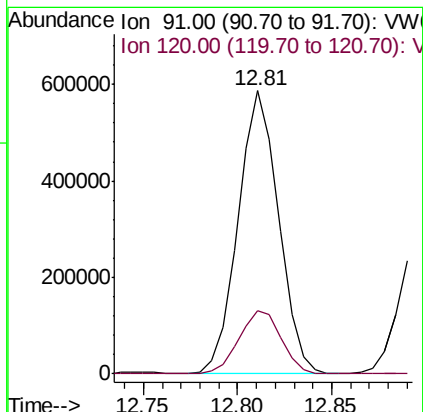
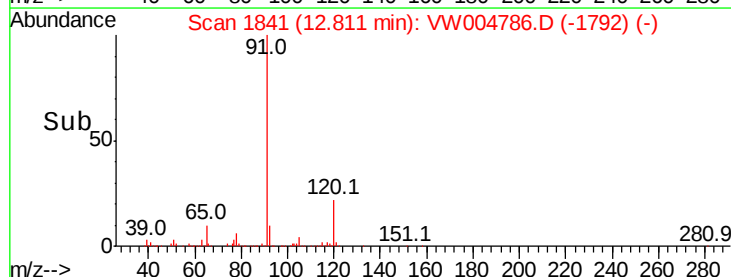
91 100

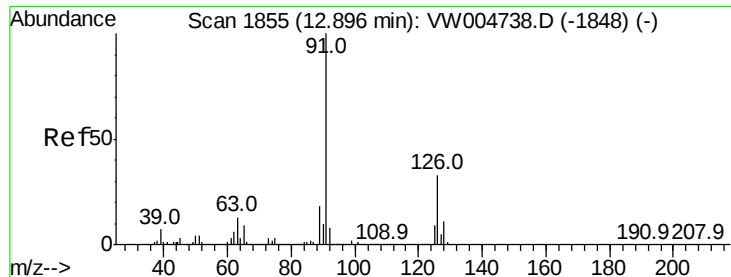
120 23.2 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.754 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

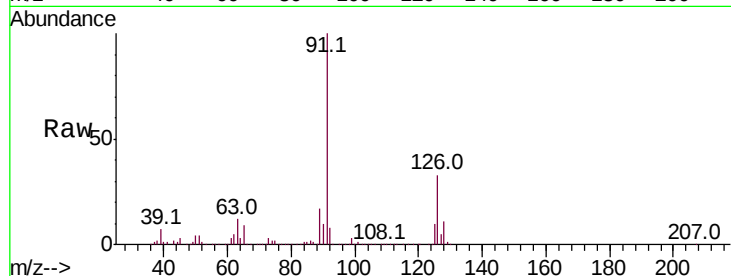
ClientSampled :

Tot Ion: 91 Resp: 493309

Ion Ratio Lower Upper

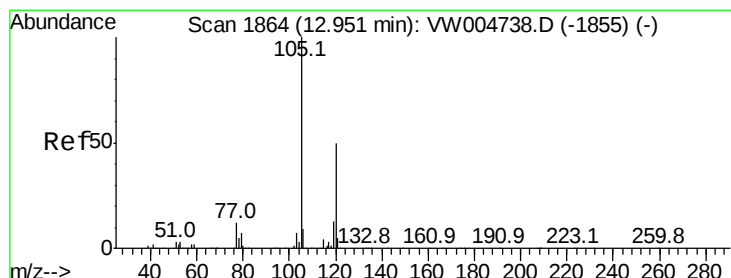
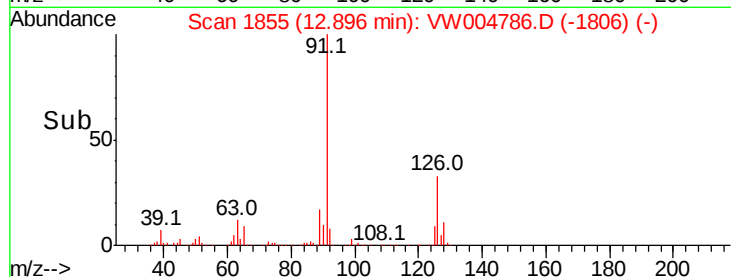
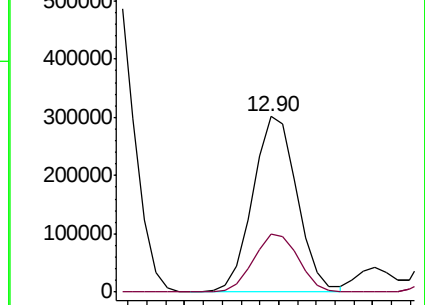
91 100

126 33.6 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 22.412 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW004786.D

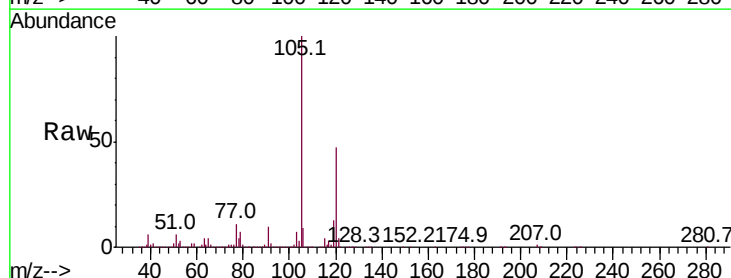
Acq: 20 Aug 2018 13:11

Tgt Ion:105 Resp: 613851

Ion Ratio Lower Upper

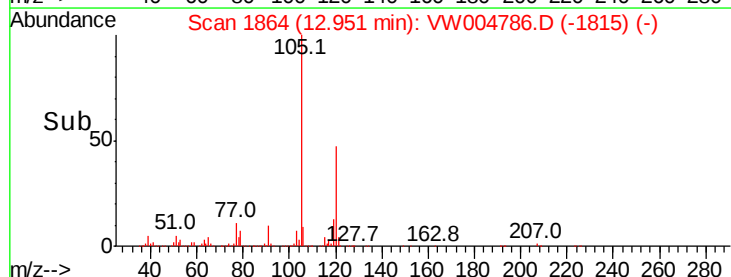
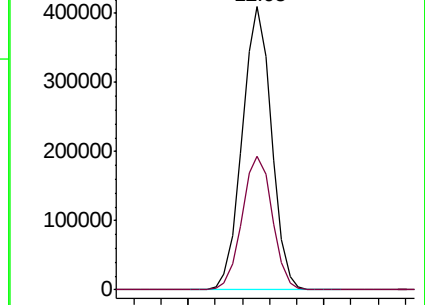
105 100

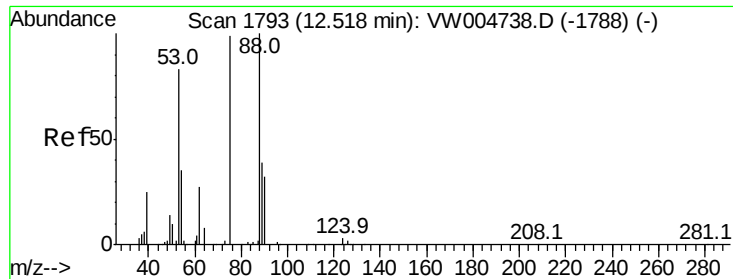
120 48.8 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 18.318 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

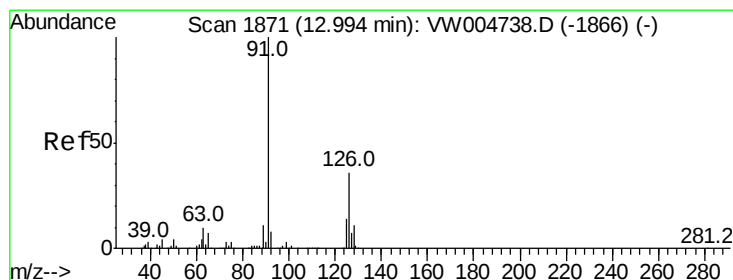
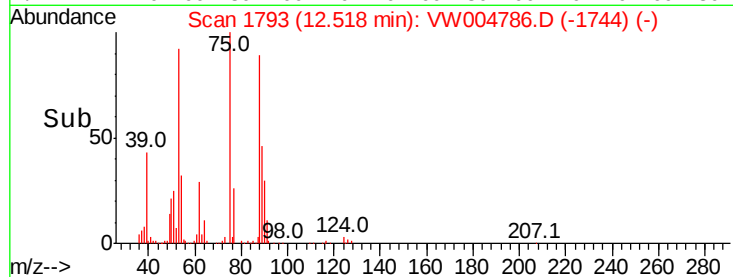
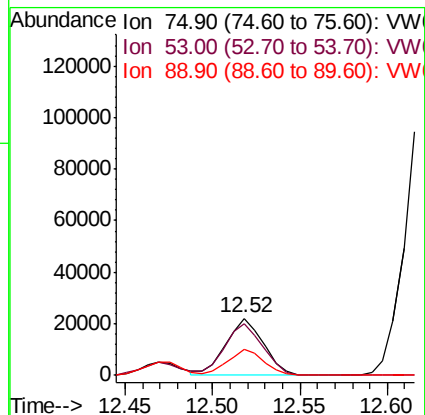
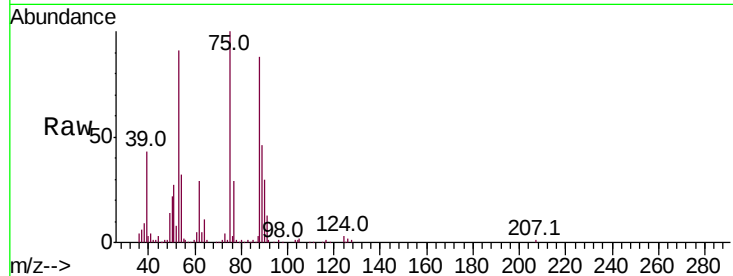
Tot Ion: 75 Resp: 32924

Ion Ratio Lower Upper

75 100

53 92.9 72.2 108.4

89 43.2 35.2 52.8



#82

4-Chlorotoluene

Concen: 21.574 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VW004786.D

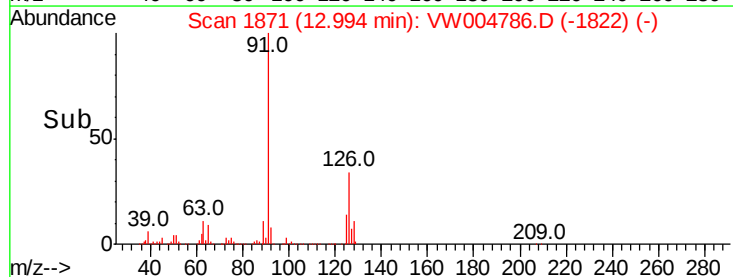
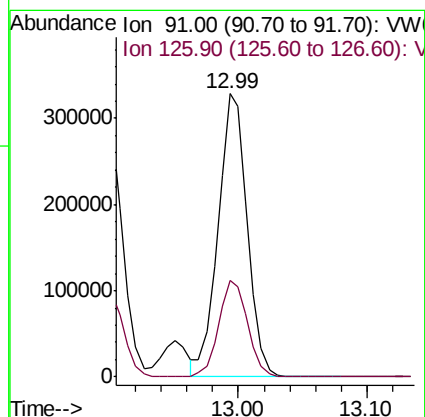
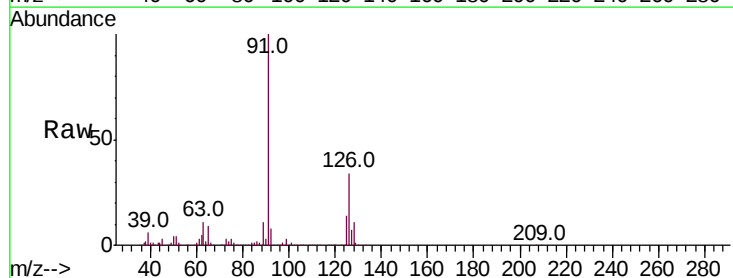
Acq: 20 Aug 2018 13:11

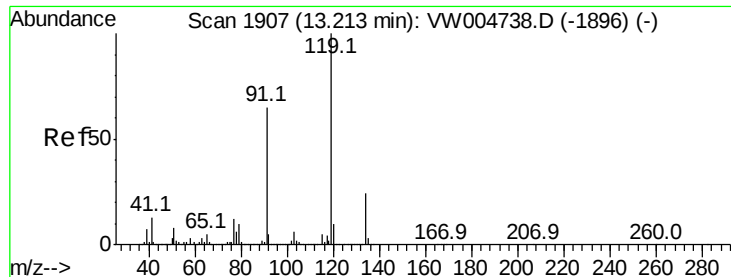
Tgt Ion: 91 Resp: 519798

Ion Ratio Lower Upper

91 100

126 34.0 16.9 50.7





#83

tert-Butylbenzene

Concen: 21.552 ug/l

RT: 13.21 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

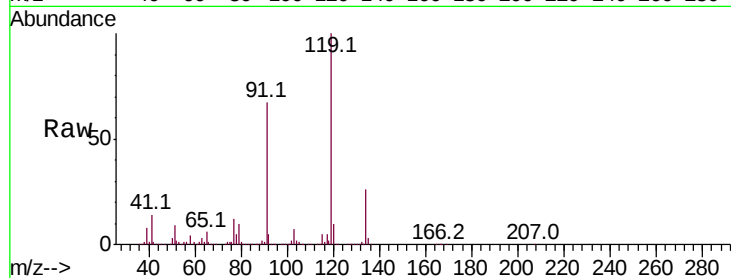
Tot Ion:119 Resp: 504912

Ion Ratio Lower Upper

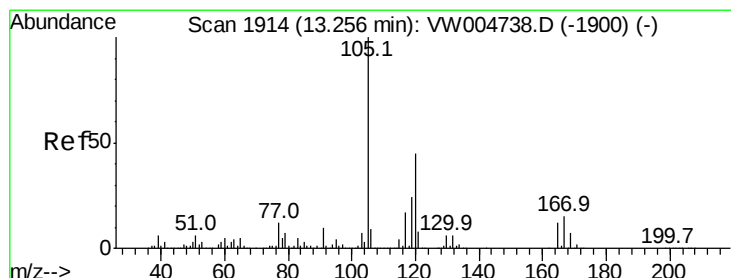
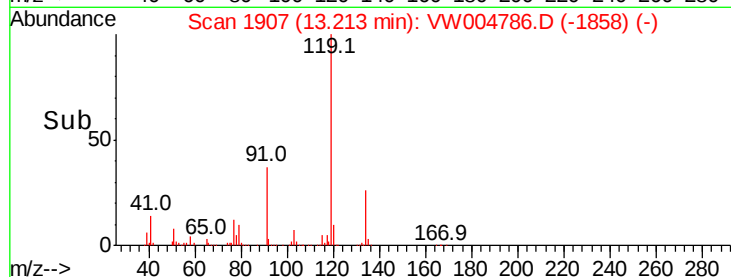
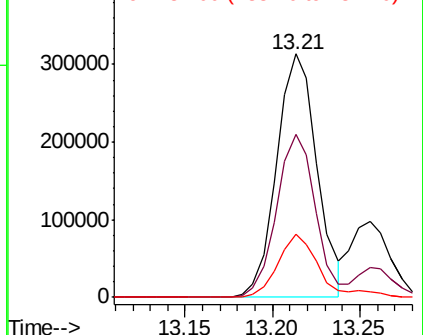
119 100

91 65.6 32.6 97.8

134 26.8 13.1 39.3



Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VW  
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.318 ug/l

RT: 13.26 min Scan# 1914

Delta R.T. -0.00 min

Lab File: VW004786.D

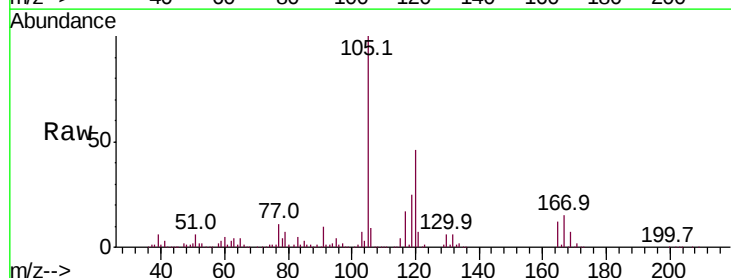
Acq: 20 Aug 2018 13:11

Tgt Ion:105 Resp: 628923

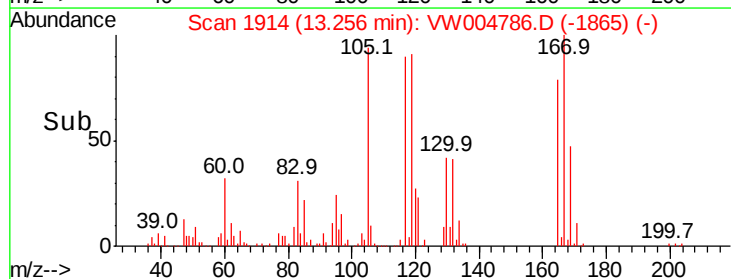
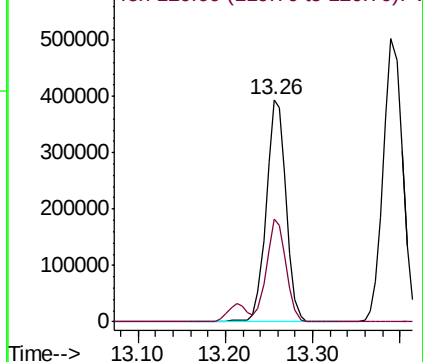
Ion Ratio Lower Upper

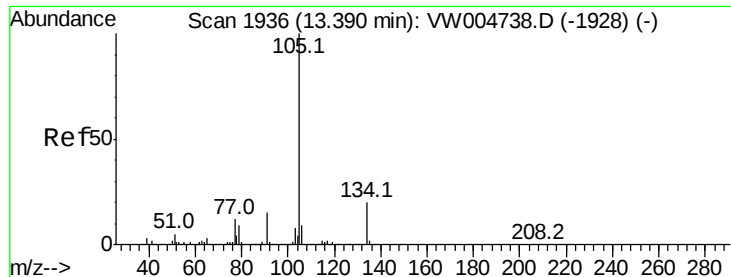
105 100

120 45.3 22.8 68.3



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

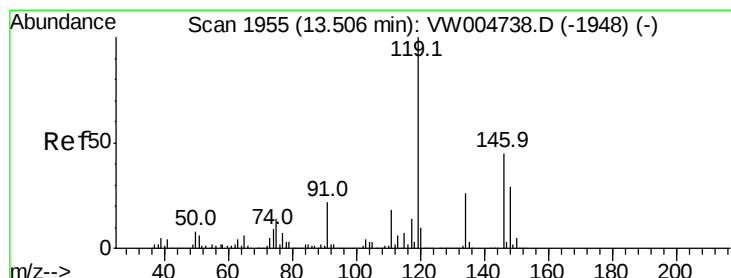
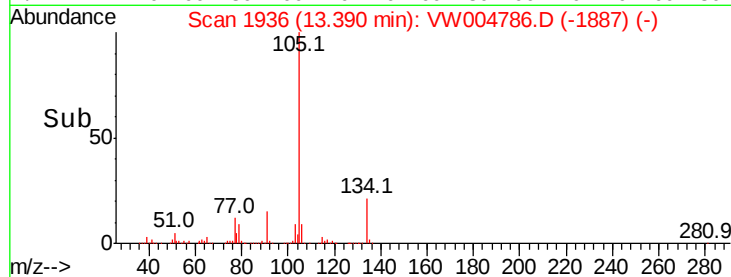
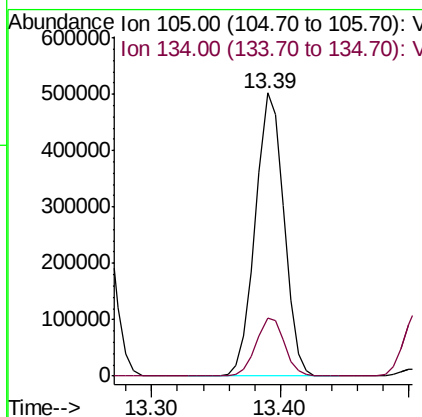
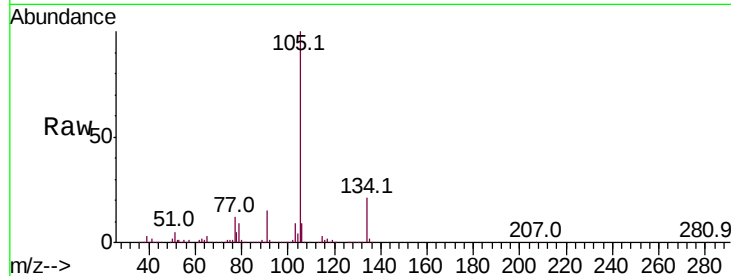




#85  
 sec-Butylbenzene  
 Concen: 21.923 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

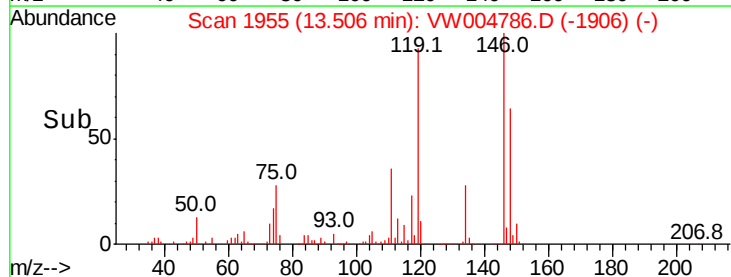
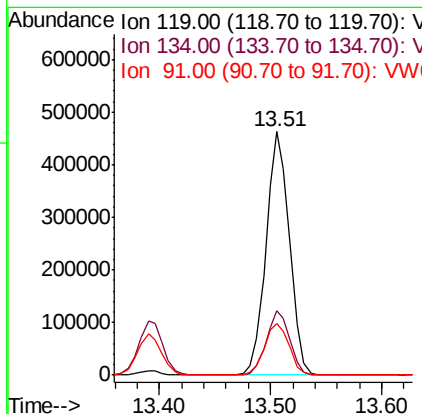
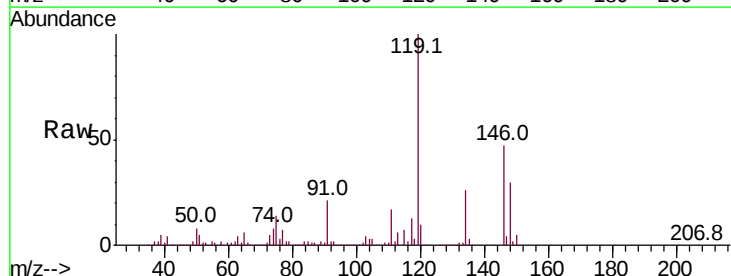
Instrument :  
 MSVOA\_W  
 ClientSampled :

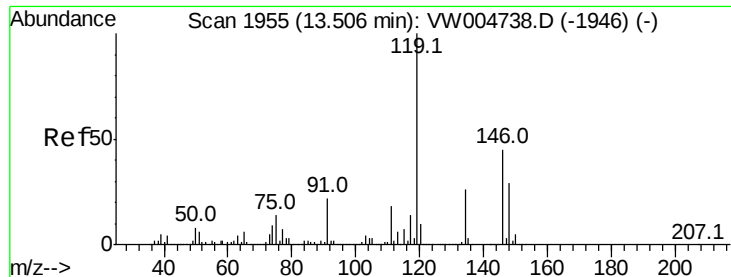
Tot Ion:105 Resp: 766822  
 Ion Ratio Lower Upper  
 105 100  
 134 20.4 10.0 29.8



#86  
 p-Isopropyltoluene  
 Concen: 22.301 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

Tgt Ion:119 Resp: 678709  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 13.1 39.3  
 91 22.1 11.2 33.5

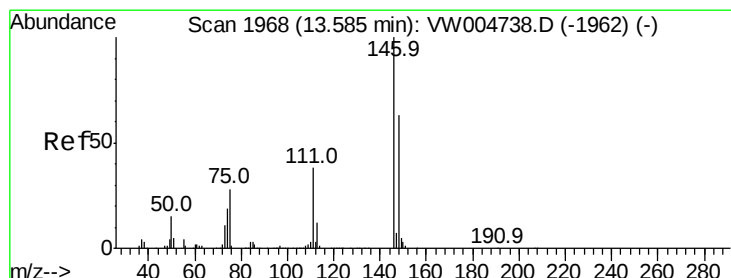
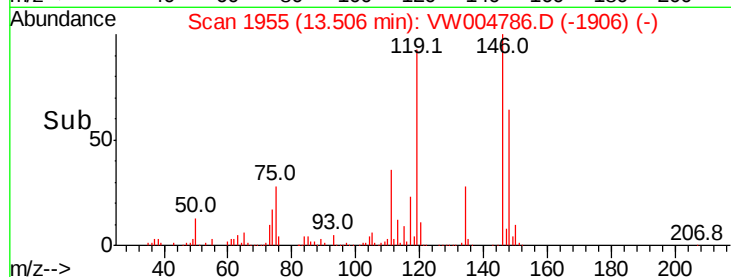
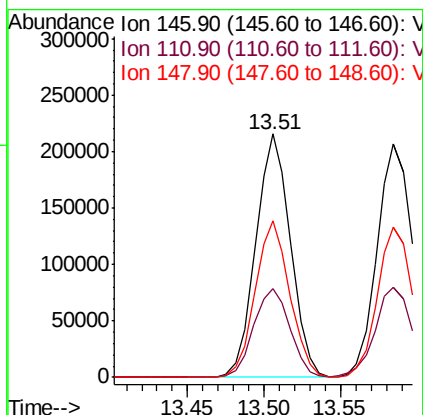
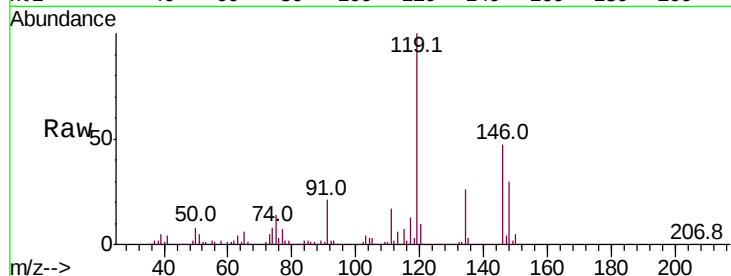




#87  
 1,3-Dichlorobenzene  
 Concen: 21.432 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

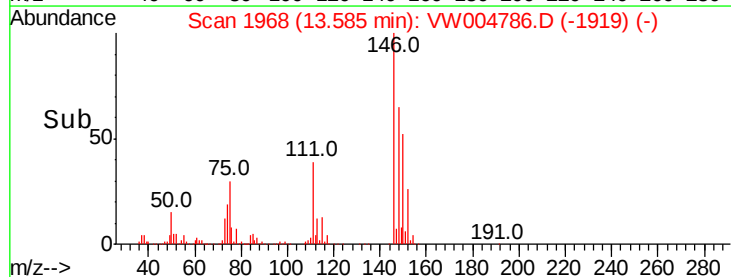
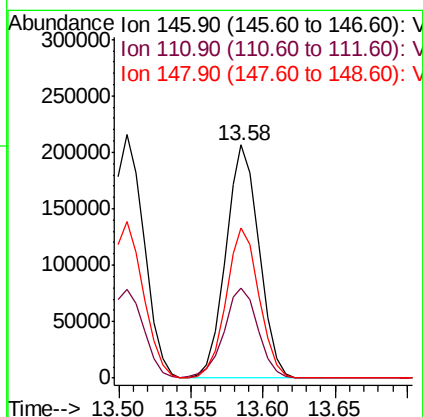
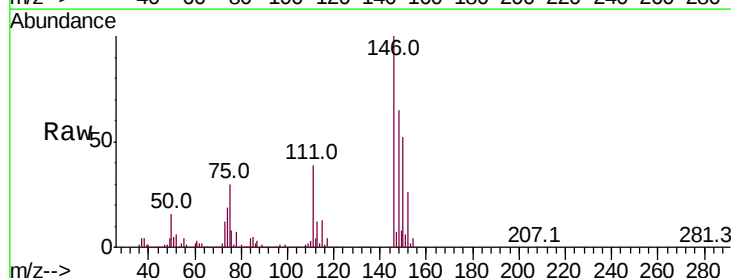
Instrument :  
 MSVOA\_W  
 ClientSampled :

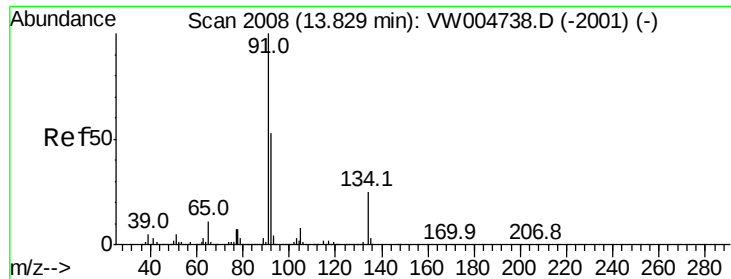
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.2  | 19.8  | 59.4  |
| 148     | 64.1  | 31.9  | 95.9  |



#88  
 1,4-Dichlorobenzene  
 Concen: 20.948 ug/l  
 RT: 13.58 min Scan# 1968  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 19.3  | 57.8  |
| 148     | 64.0  | 31.8  | 95.3  |





#89

n-Butylbenzene

Concen: 21.398 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampled :

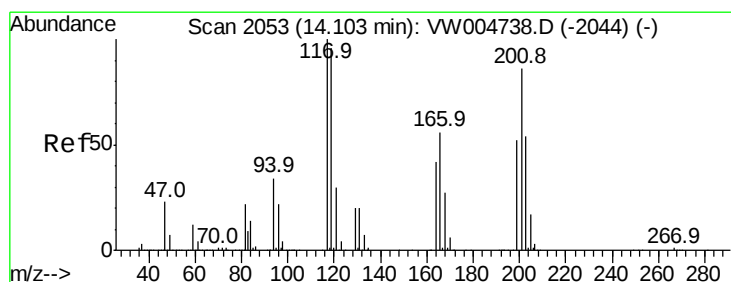
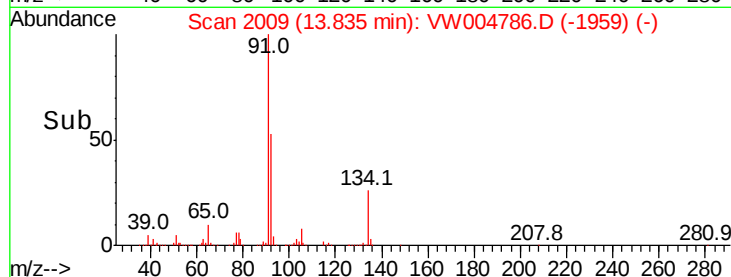
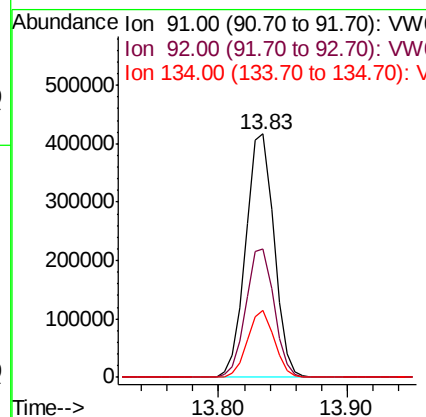
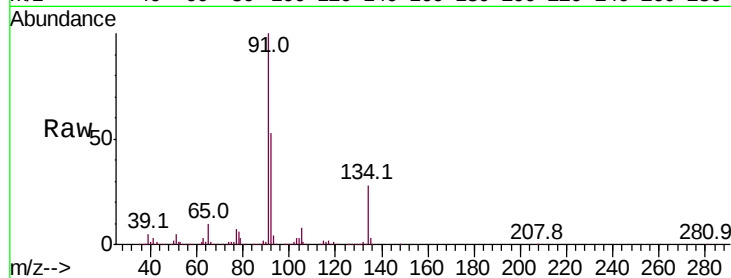
Tot Ion: 91 Resp: 629625

Ion Ratio Lower Upper

91 100

92 52.6 26.4 79.2

134 26.0 12.8 38.3



#90

Hexachloroethane

Concen: 20.458 ug/l

RT: 14.10 min Scan# 2052

Delta R.T. -0.01 min

Lab File: VW004786.D

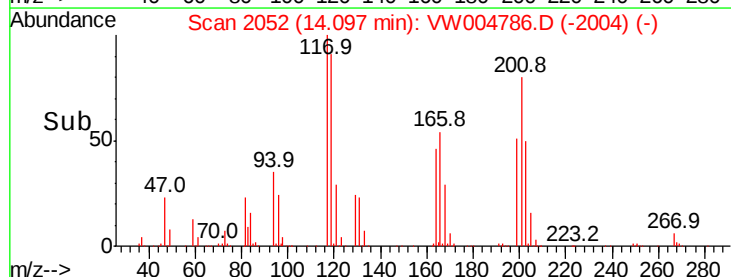
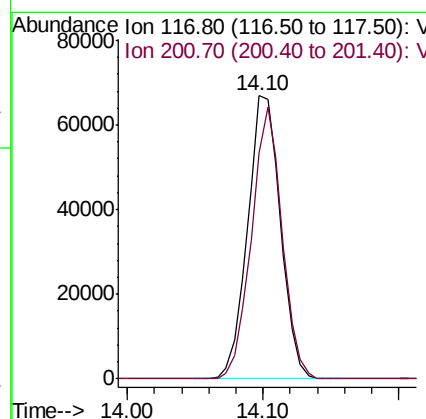
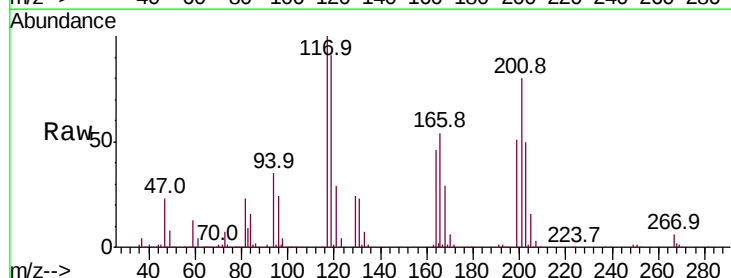
Acq: 20 Aug 2018 13:11

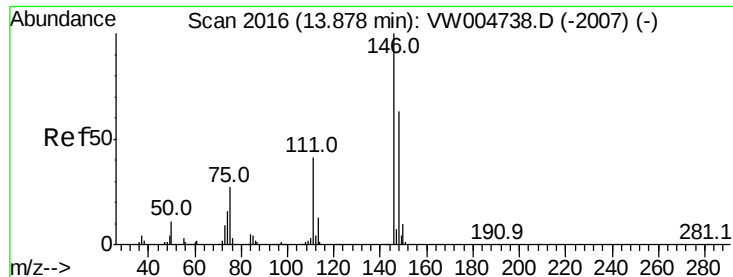
Tgt Ion: 117 Resp: 113486

Ion Ratio Lower Upper

117 100

201 89.3 42.4 127.2





#91

1,2-Dichlorobenzene

Concen: 20.904 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW004786.D

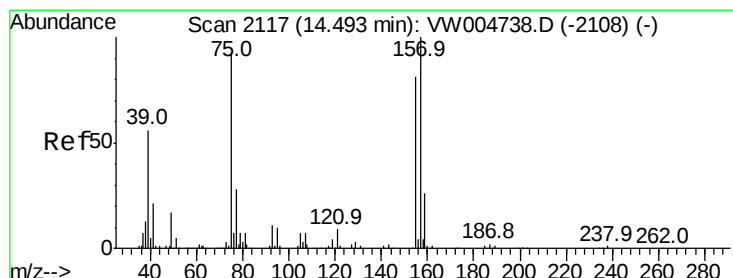
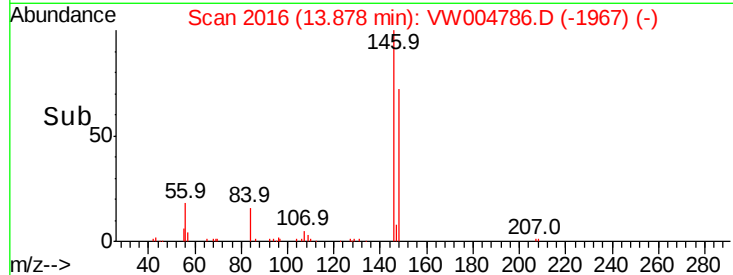
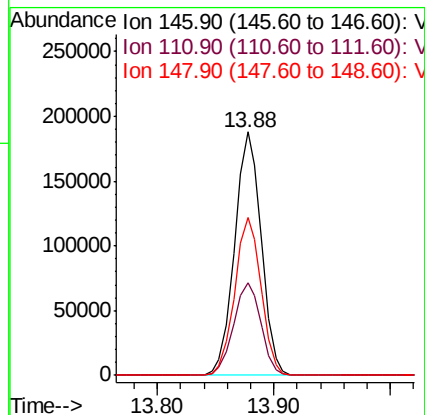
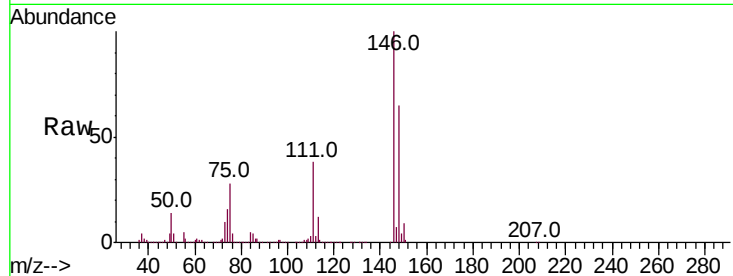
Acq: 20 Aug 2018 13:11

Instrument :

MSVOA\_W

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 146   | Resp: | 298024 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 39.2  | 20.4  | 61.3   |
| 148      | 64.4  | 31.6  | 95.0   |



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.950 ug/l

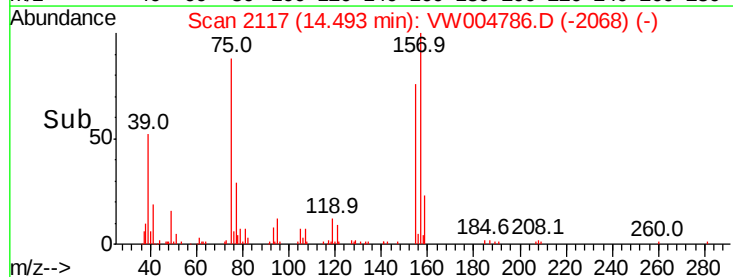
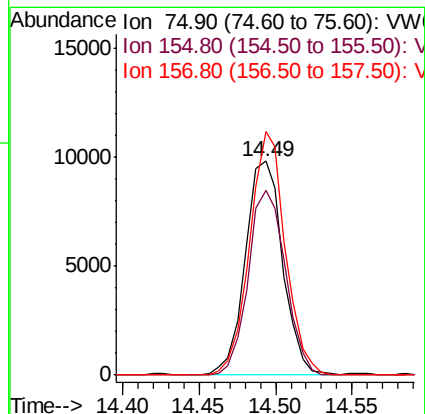
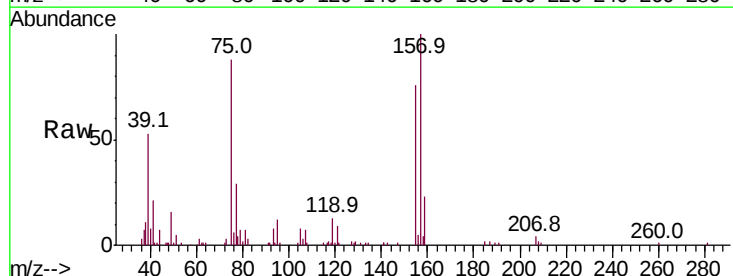
RT: 14.49 min Scan# 2117

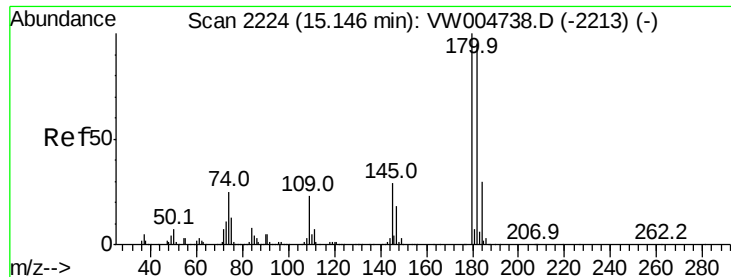
Delta R.T. -0.00 min

Lab File: VW004786.D

Acq: 20 Aug 2018 13:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 16755 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 155      | 85.7  | 43.3  | 129.9 |
| 157      | 107.9 | 54.5  | 163.6 |

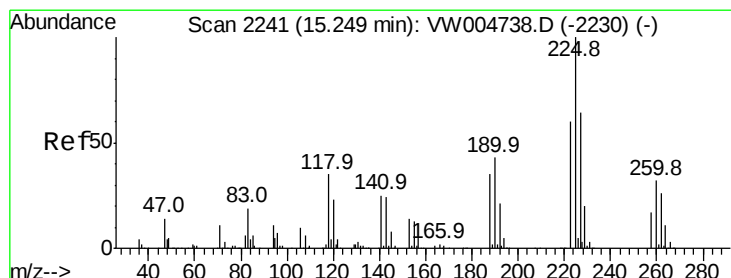
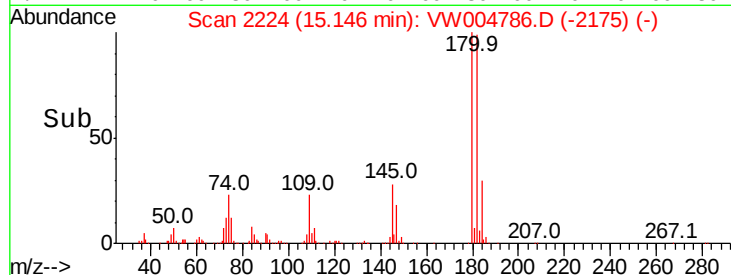
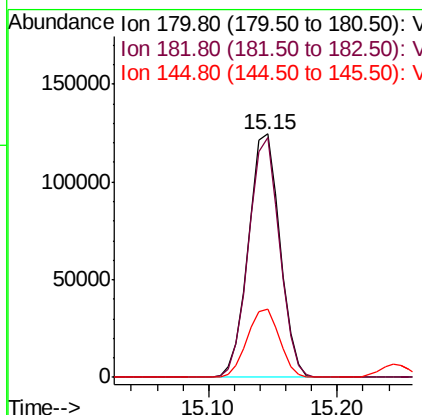
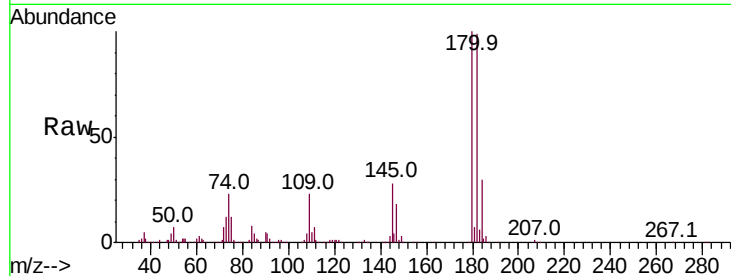




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.804 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. -0.00 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

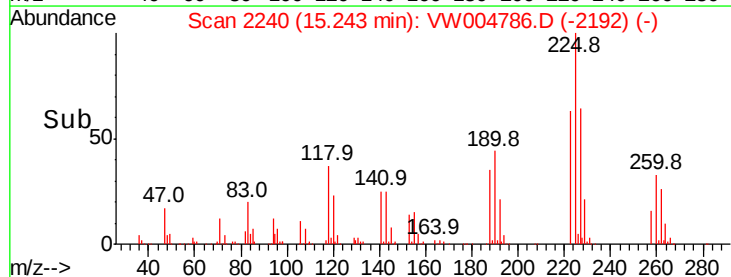
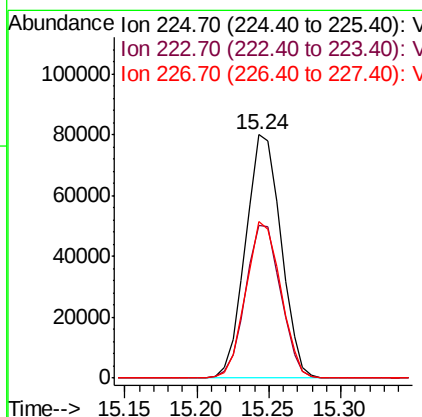
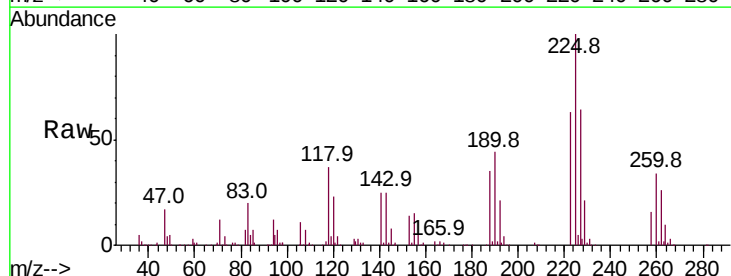
Instrument :  
 MSVOA\_W  
 ClientSampleId :

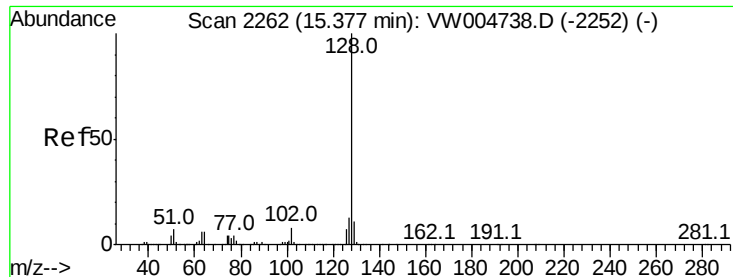
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.6  | 47.3  | 141.8 |
| 145     | 28.8  | 14.6  | 43.8  |



#94  
 Hexachlorobutadiene  
 Concen: 22.027 ug/l  
 RT: 15.24 min Scan# 2240  
 Delta R.T. -0.01 min  
 Lab File: VW004786.D  
 Acq: 20 Aug 2018 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.4  | 30.9  | 92.5  |
| 227     | 63.3  | 32.0  | 96.0  |

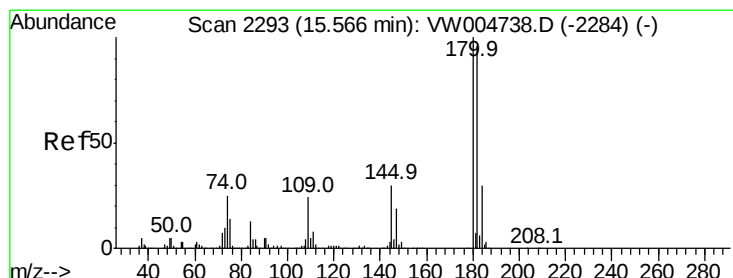
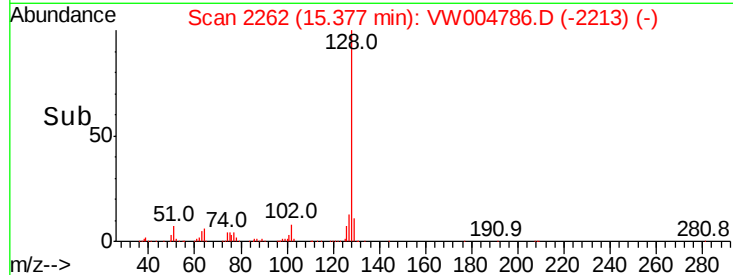
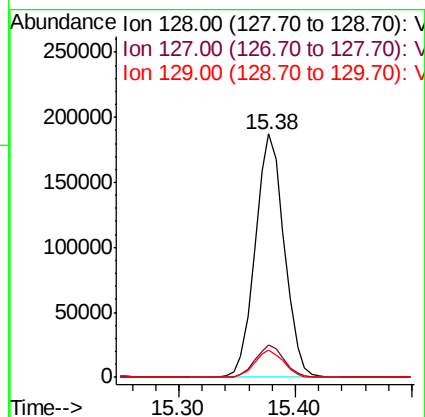
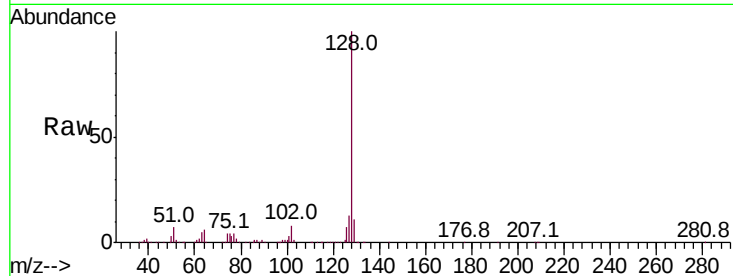




#95  
Naphthalene  
Concen: 18.927 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:128 Resp: 324007  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.4 15.6  
129 11.1 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 20.391 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. -0.00 min  
Lab File: VW004786.D  
Acq: 20 Aug 2018 13:11

Tgt Ion:180 Resp: 182341  
Ion Ratio Lower Upper  
180 100  
182 94.4 47.3 142.0  
145 30.7 15.4 46.1

