

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111318\  
 Data File : VW006849.D  
 Acq On : 13 Nov 2018 13:05  
 Operator : SY/AP  
 Sample : VW1113SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 13 15:23:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 14:58:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 351593   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 459860   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 440167   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 251223   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 118156   | 45.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.94% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 126773   | 46.30 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.60% |      |
| 50) Toluene-d8            | 10.33  | 98  | 517480   | 45.59 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.18% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 195639   | 46.80 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.60% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 63517  | 21.883  | ug/l   | 100    |
| 3) Chloromethane              | 2.21 | 50  | 69209  | 21.150  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 73426  | 20.903  | ug/l   | 100    |
| 5) Bromomethane               | 2.78 | 94  | 51538  | 21.809  | ug/l   | 100    |
| 6) Chloroethane               | 2.92 | 64  | 45590  | 20.113  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 100034 | 21.574  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.69 | 74  | 29454  | 21.648  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 67344  | 21.420  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.28 | 142 | 75891  | 17.223  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.21 | 59  | 16891  | 100.115 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 56273  | 21.189  | ug/l   | 96     |
| 13) Acrolein                  | 3.90 | 56  | 17880  | 101.328 | ug/l   | 98     |
| 14) Allyl chloride            | 4.68 | 41  | 71323  | 20.419  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.38 | 53  | 48913  | 94.927  | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43  | 34243  | 92.768  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.39 | 76  | 163041 | 19.413  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.69 | 43  | 23143  | 18.329  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 134291 | 21.299  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.92 | 84  | 70067  | 17.468  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 65012  | 20.757  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.32 | 45  | 150110 | 20.693  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 421604 | 103.093 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 98469  | 20.467  | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 59678  | 95.600  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 103483 | 21.377  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 69560  | 20.832  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.52 | 49  | 33441  | 19.871  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 37855  | 94.757  | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83  | 107517 | 20.467  | ug/l   | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 106482 | 21.622  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 110813 | 21.854  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 95051  | 22.087  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 28524  | 20.270  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 102569 | 21.929  | ug/l   | 98     |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 13 15:23:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 14:58:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 116539   | 20.873  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 249378   | 20.840  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 15304    | 17.712  | ug/l # | 89       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 67149    | 20.945  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 53757    | 19.643  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 81634    | 21.620  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 58565    | 20.999  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 31402    | 20.227  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 82321    | 21.379  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 24444    | 18.218  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 8947     | 381.458 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 128528   | 93.660  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 174496   | 20.569  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 76475    | 20.174  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 94187    | 20.953  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 47131    | 20.459  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 50043    | 19.821  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 74579    | 20.442  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 129147   | 102.136 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 89907    | 94.984  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 56912    | 20.190  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 45222    | 20.669  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 72763    | 20.628  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 202059   | 20.692  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 64648    | 20.402  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 354801   | 21.313  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 289135   | 42.449  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 134765   | 21.259  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 212384   | 20.932  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 33046    | 19.110  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 372457   | 21.359  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 52076    | 19.750  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 46177    | 19.142  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 61561    | 34.003  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 91191    | 20.742  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.81 | 91   | 437020   | 21.234  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 244541   | 21.178  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 321421   | 21.441  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13661    | 18.664  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 259429   | 21.057  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 281187   | 21.220  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 321383   | 21.066  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 398453   | 21.220  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 363606   | 21.289  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 186462   | 20.809  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 185170   | 20.887  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 328253   | 21.030  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 54610    | 19.982  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 163606   | 20.966  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6970     | 18.047  | ug/l   | 96       |

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Sample : VW1113SBS01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Nov 13 15:23:47 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 2018  
Response via : Initial Calibration

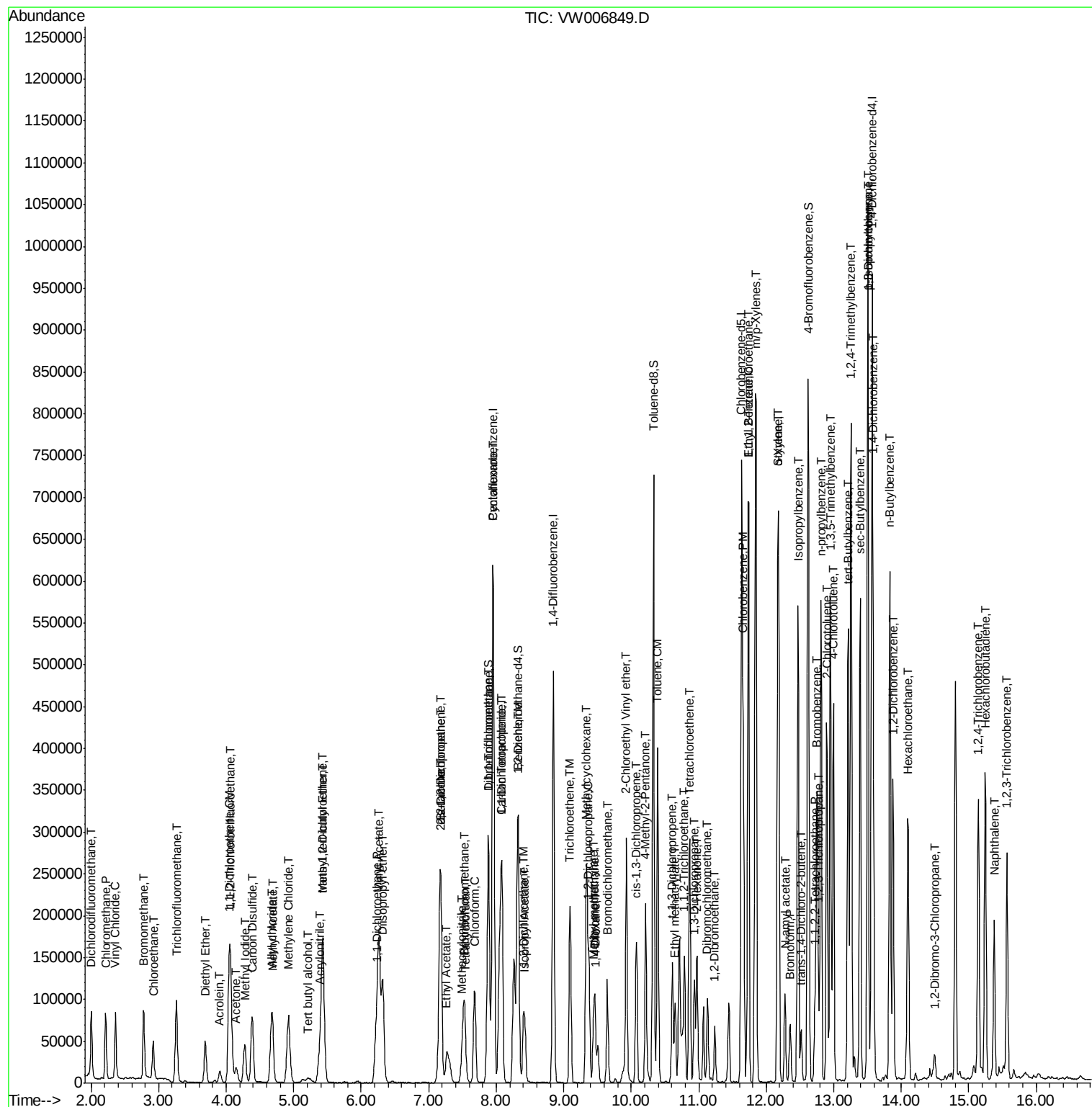
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 120553   | 20.462 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 80032    | 21.438 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 175364   | 19.902 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 100827   | 19.943 | ug/l  | 99       |

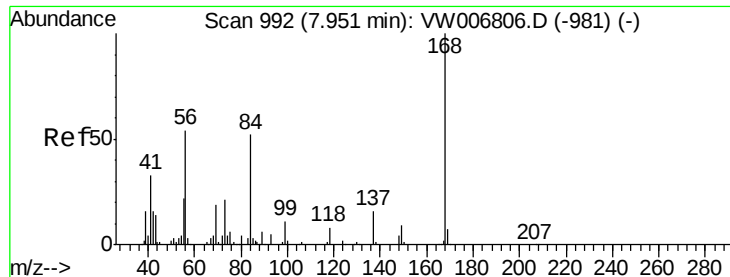
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 Response via : Initial Calibration



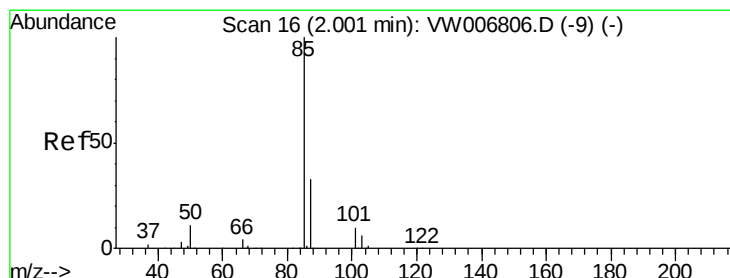
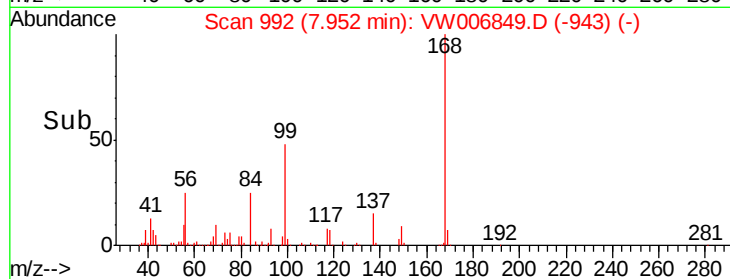
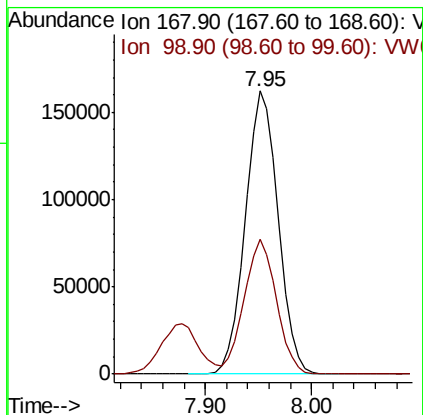
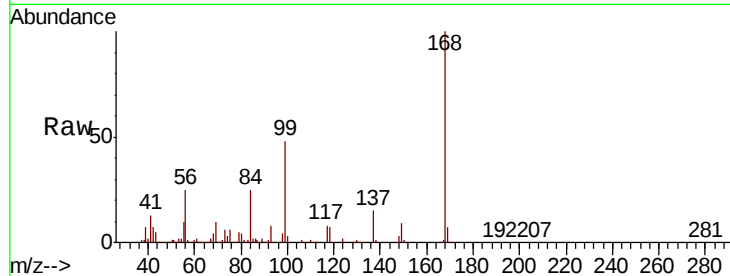


#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Instrument :  
 MSVOA\_W  
 ClientSampled :

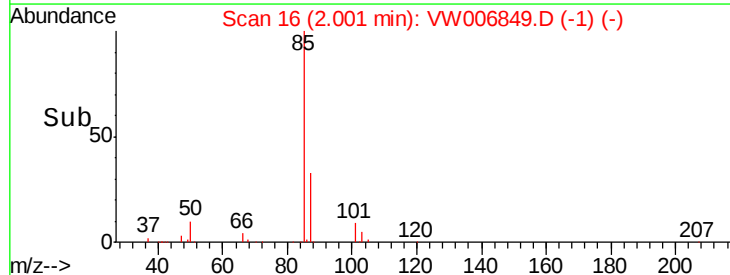
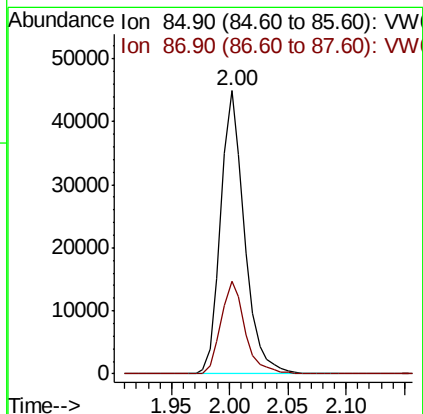
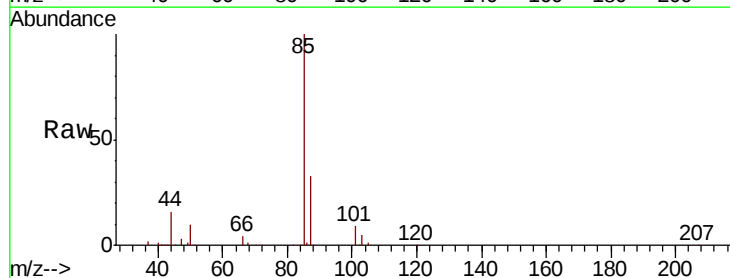
Tot Ion:168 Resp: 351593  
 Ion Ratio Lower Upper  
 168 100  
 99 47.5 37.3 55.9

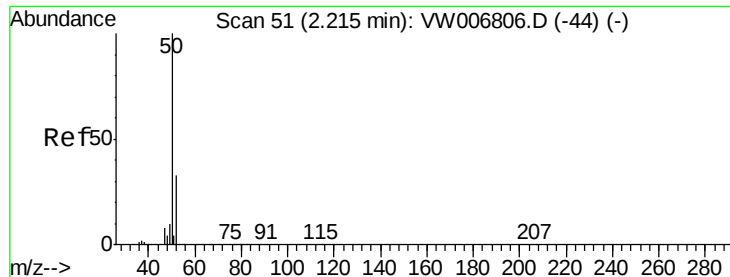


#2

Dichlorodifluoromethane  
 Concen: 21.883 ug/l  
 RT: 2.00 min Scan# 16  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 85 Resp: 63517  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 16.4 49.4





#3

Chloromethane

Concen: 21.150 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

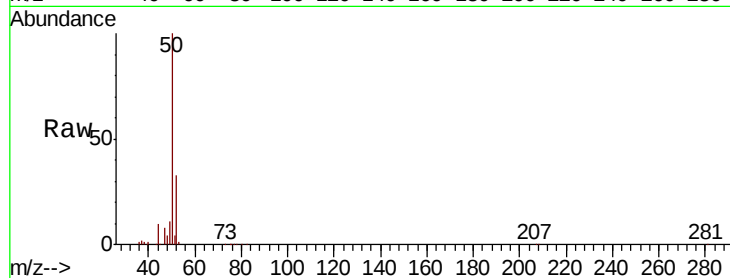
ClientSampled :

Tot Ion: 50 Resp: 69209

Ion Ratio Lower Upper

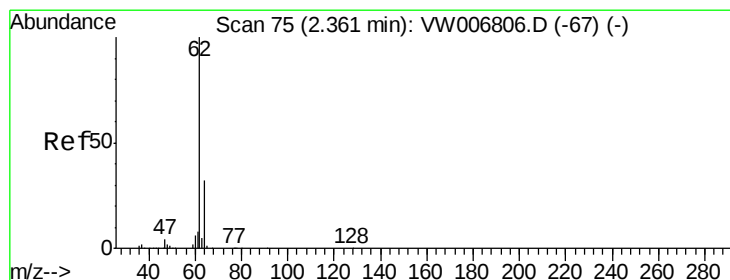
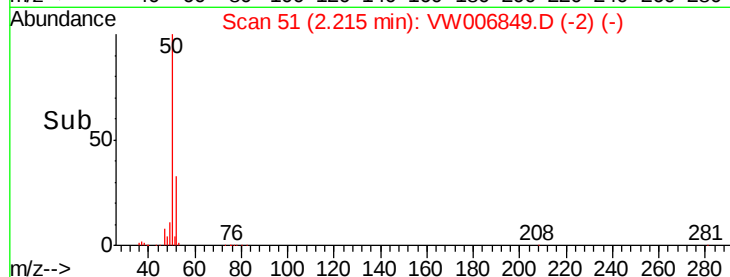
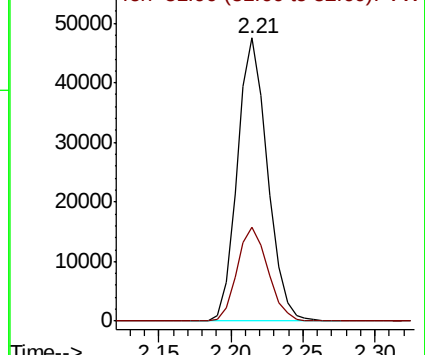
50 100

52 33.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 20.903 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW006849.D

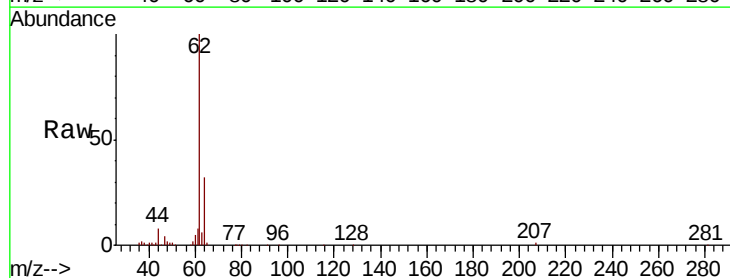
Acq: 13 Nov 2018 13:05

Tgt Ion: 62 Resp: 73426

Ion Ratio Lower Upper

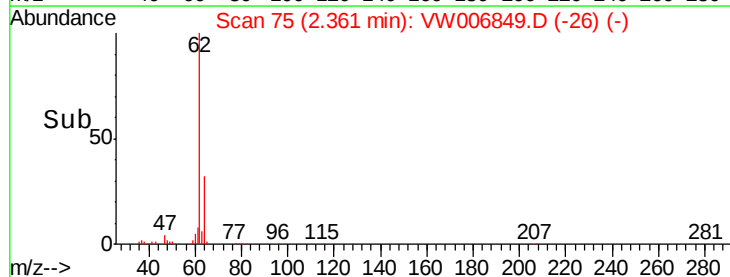
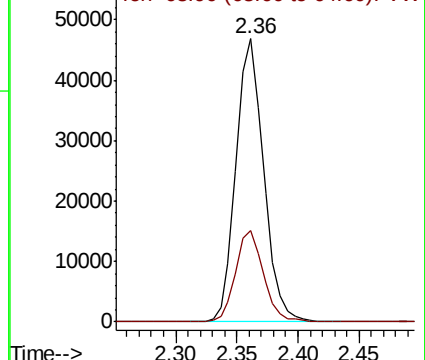
62 100

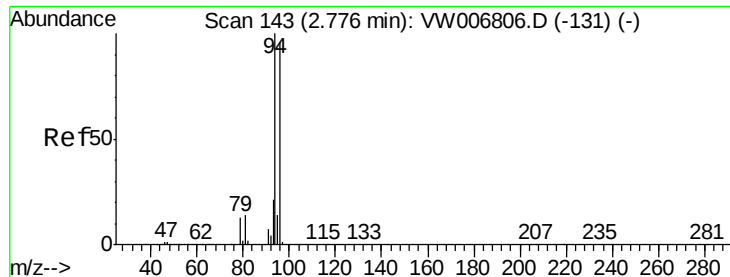
64 32.1 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 21.809 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

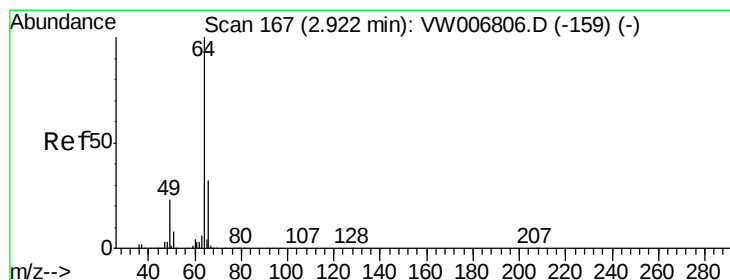
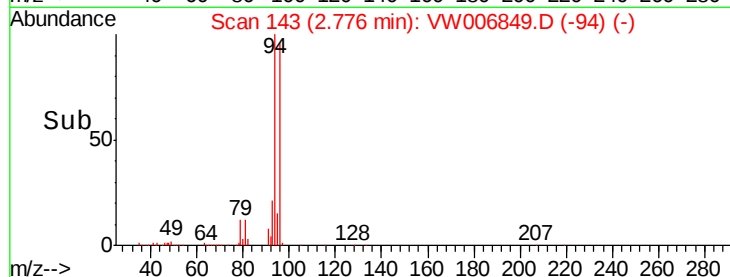
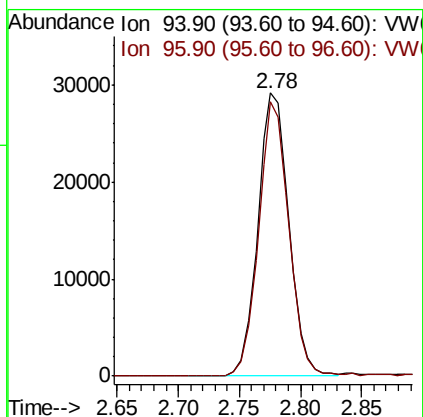
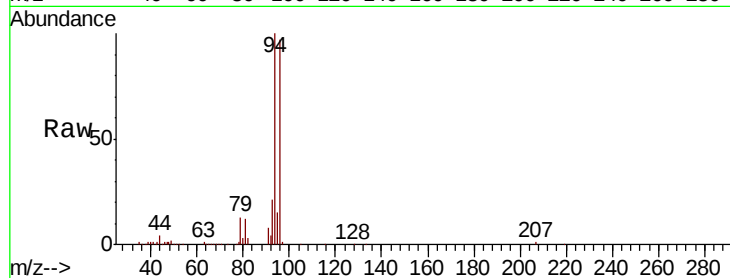
ClientSampleId :

Tot Ion: 94 Resp: 51538

Ion Ratio Lower Upper

94 100

96 96.5 76.8 115.2



#6

Chloroethane

Concen: 20.113 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW006849.D

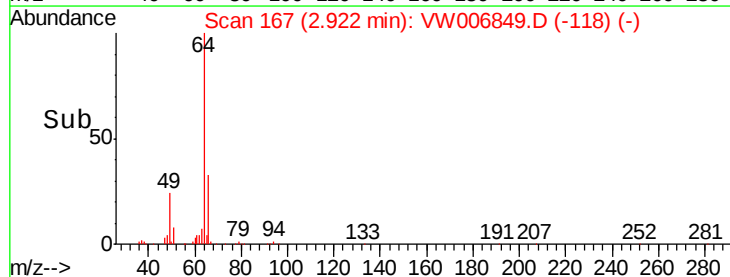
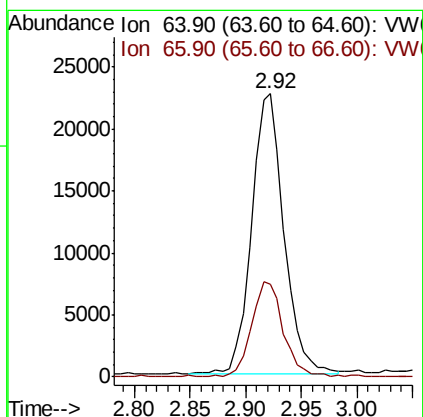
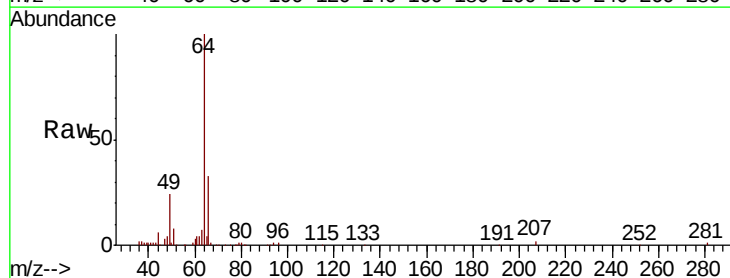
Acq: 13 Nov 2018 13:05

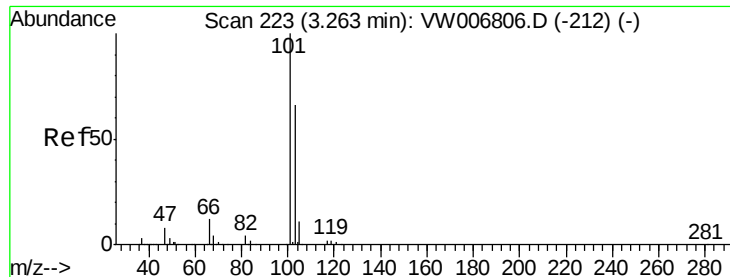
Tgt Ion: 64 Resp: 45590

Ion Ratio Lower Upper

64 100

66 32.5 25.5 38.3



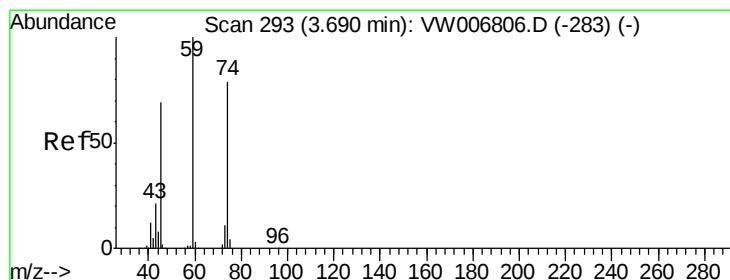
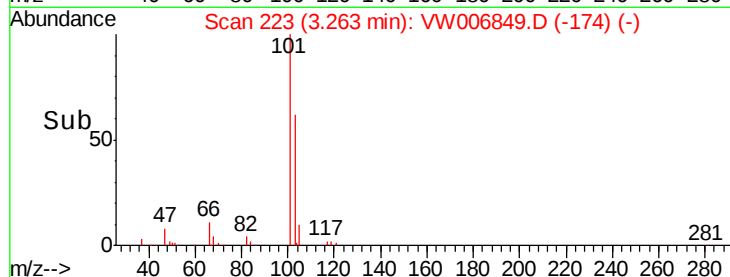
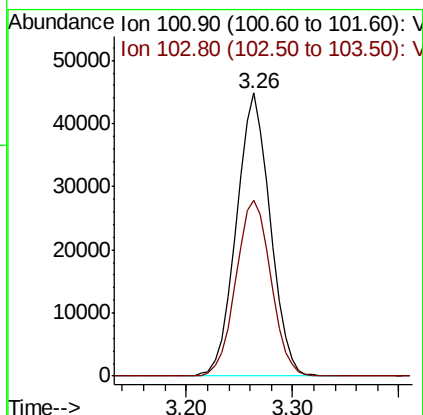
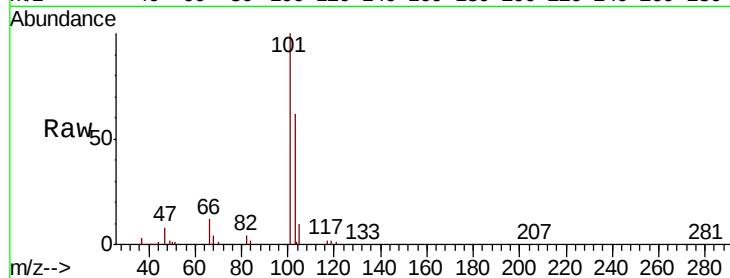


#7

Trichlorofluoromethane  
Concen: 21.574 ug/l  
RT: 3.26 min Scan# 223  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Instrument :  
MSVOA\_W  
ClientSampled :

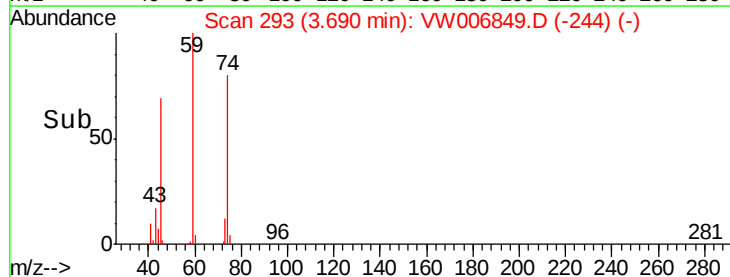
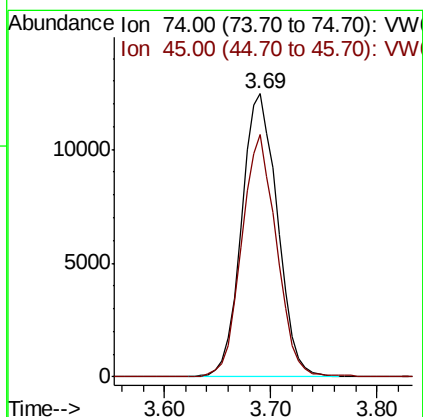
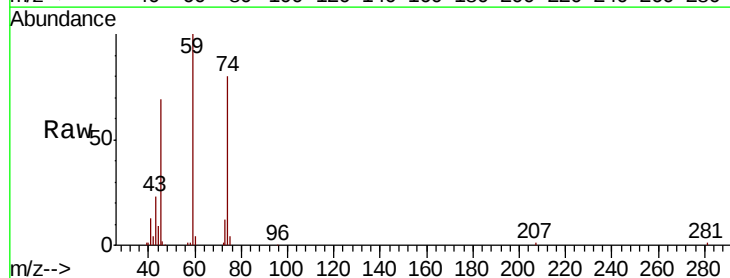
Tot Ion:101 Resp: 100034  
Ion Ratio Lower Upper  
101 100  
103 62.0 52.6 79.0

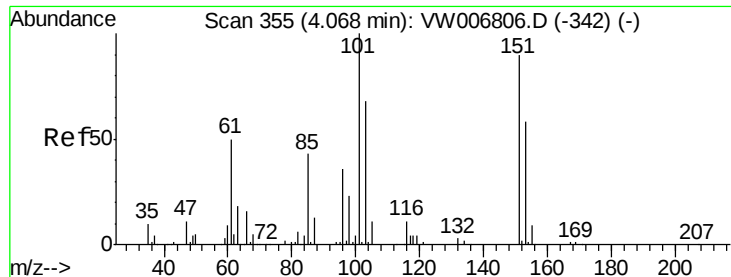


#8

Diethyl Ether  
Concen: 21.648 ug/l  
RT: 3.69 min Scan# 293  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 74 Resp: 29454  
Ion Ratio Lower Upper  
74 100  
45 83.3 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.420 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

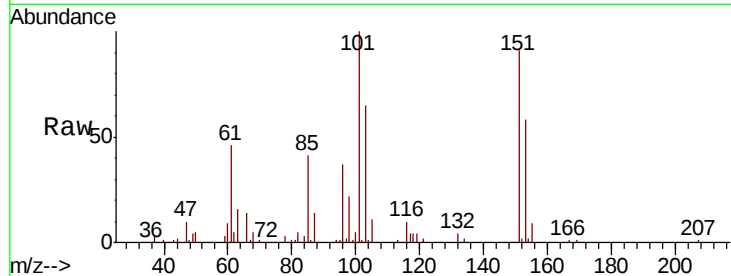
Tot Ion:101 Resp: 67344

Ion Ratio Lower Upper

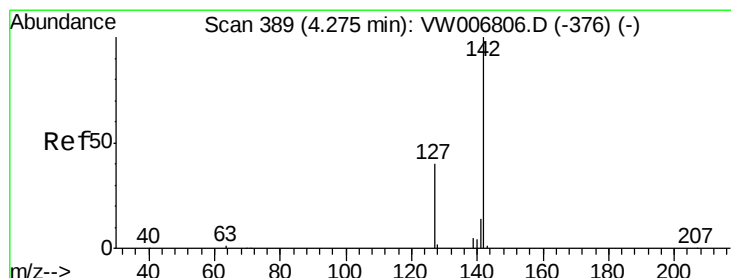
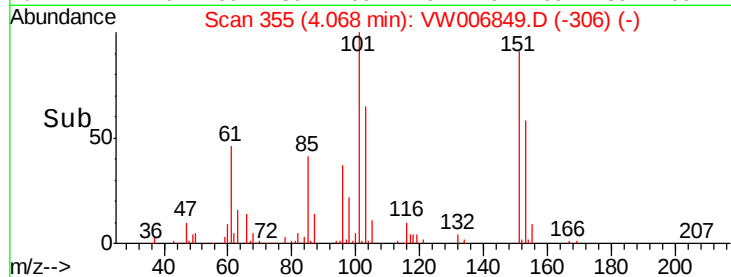
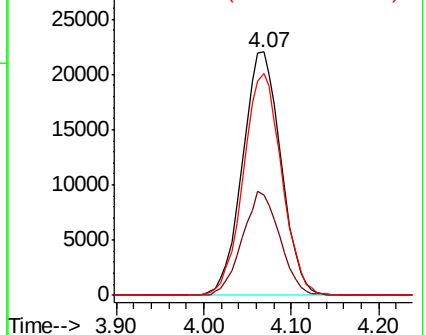
101 100

85 41.4 33.8 50.8

151 90.9 71.4 107.0



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: 17.223 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

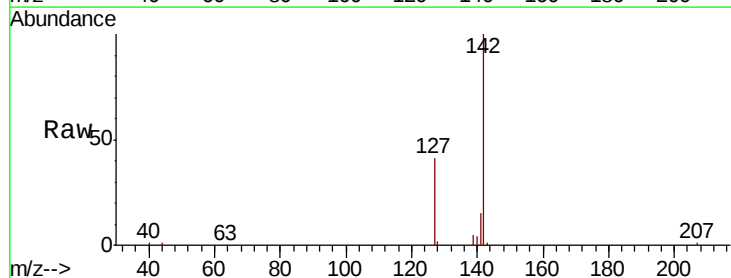
Tgt Ion:142 Resp: 75891

Ion Ratio Lower Upper

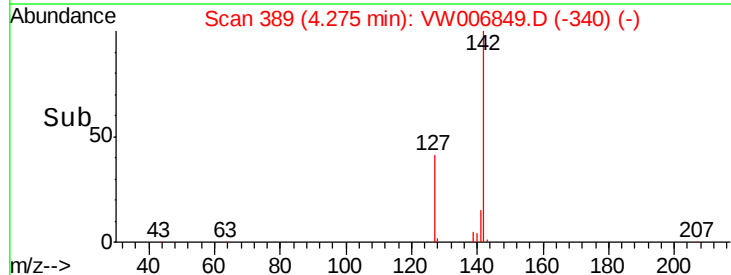
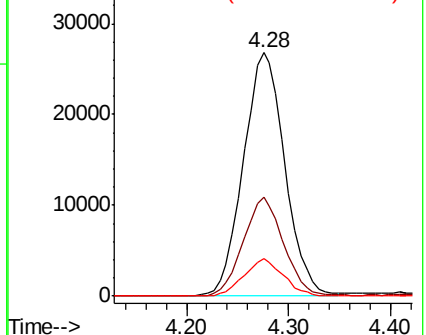
142 100

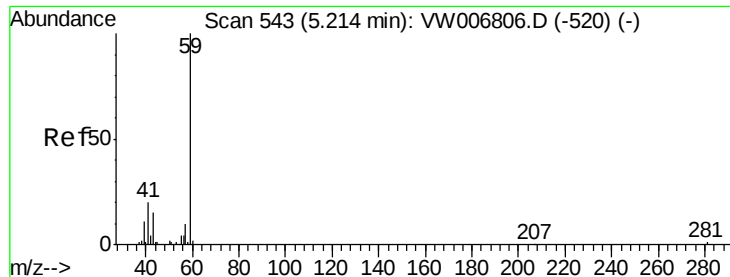
127 39.7 31.8 47.8

141 14.7 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



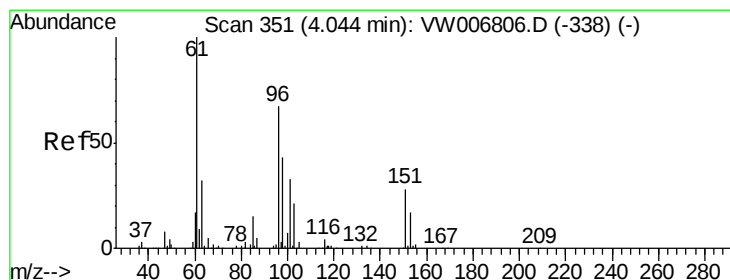
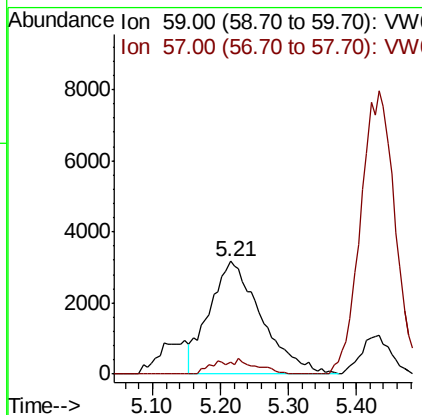
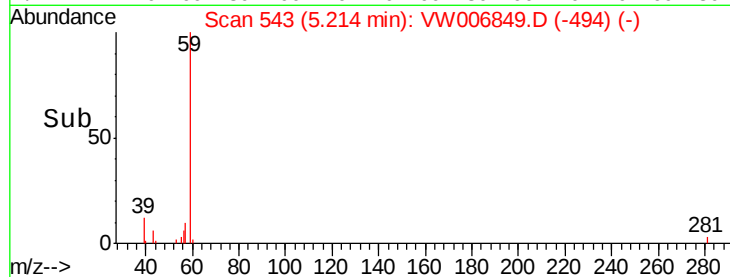
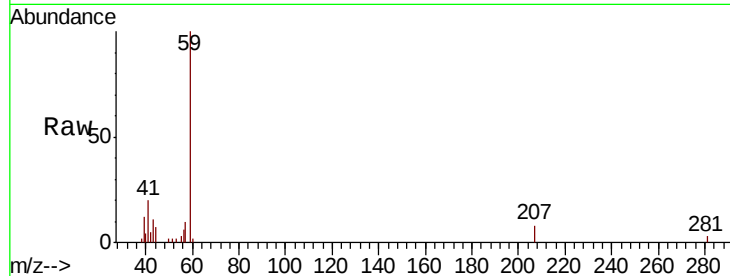


#11

Tert butyl alcohol  
 Concen: 100.115 ug/l  
 RT: 5.21 min Scan# 543  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :

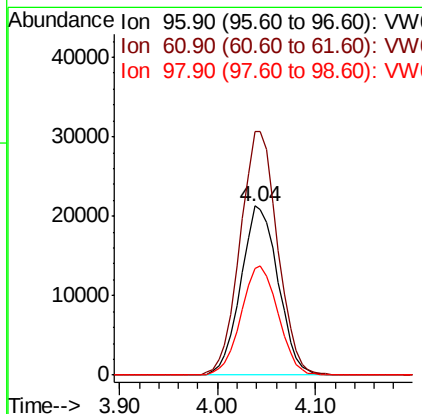
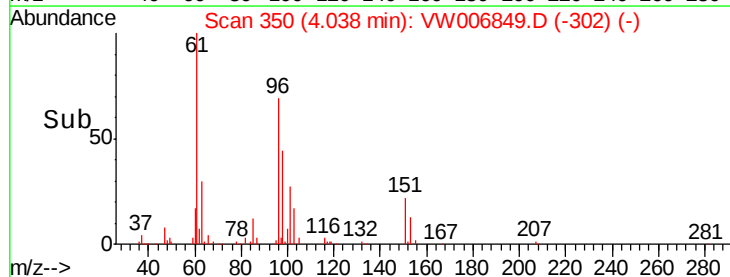
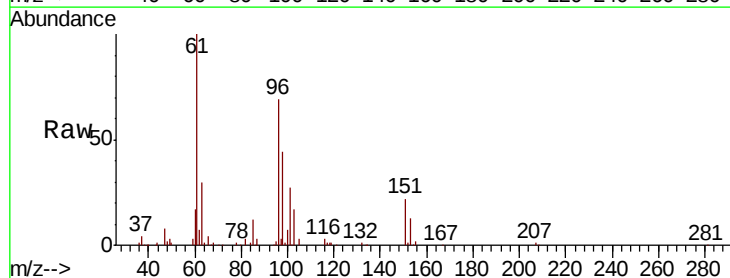
Tot Ion: 59 Resp: 16891  
 Ion Ratio Lower Upper  
 59 100  
 57 5.3 8.3 12.5#

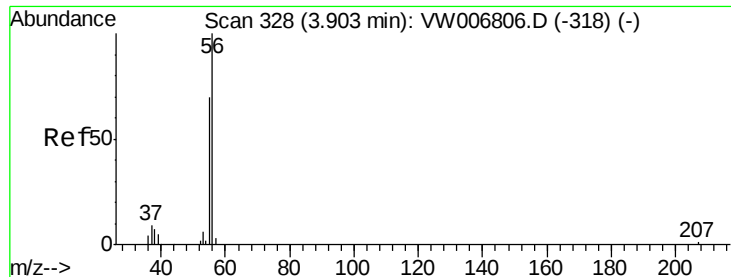


#12

1,1-Dichloroethene  
 Concen: 21.189 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.01 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 96 Resp: 56273  
 Ion Ratio Lower Upper  
 96 100  
 61 144.0 119.8 179.6  
 98 62.8 51.5 77.3





#13

Acrolein

Concen: 101.328 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

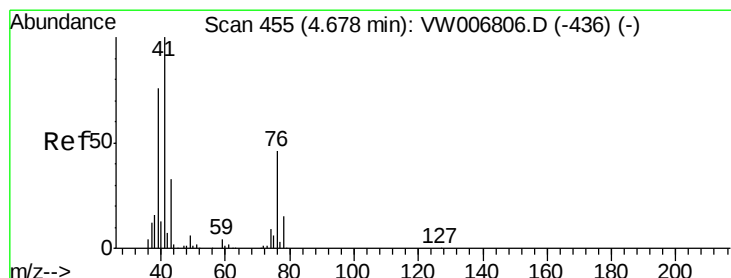
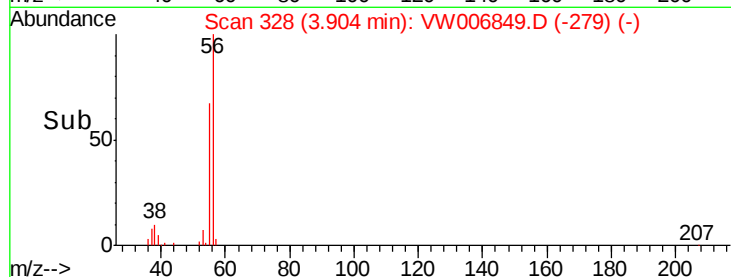
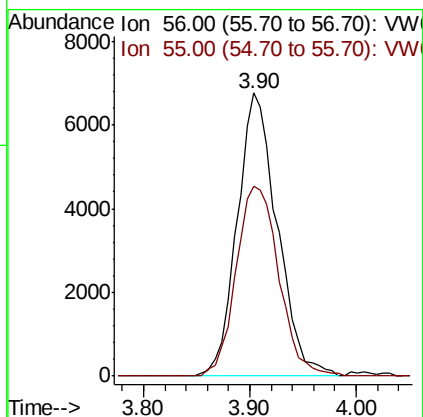
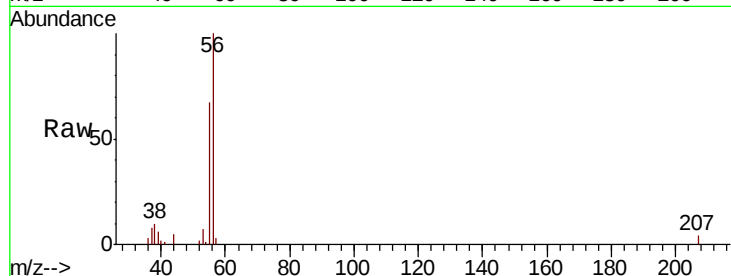
ClientSampleId :

Tot Ion: 56 Resp: 17880

Ion Ratio Lower Upper

56 100

55 71.4 56.1 84.1



#14

Allyl chloride

Concen: 20.419 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

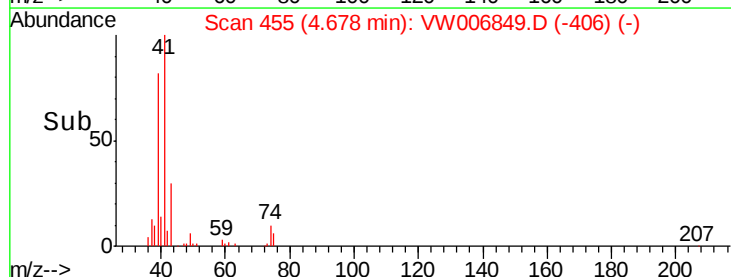
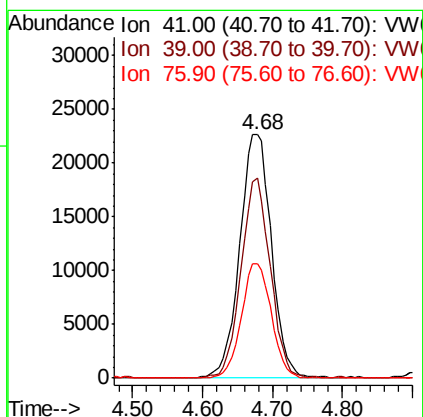
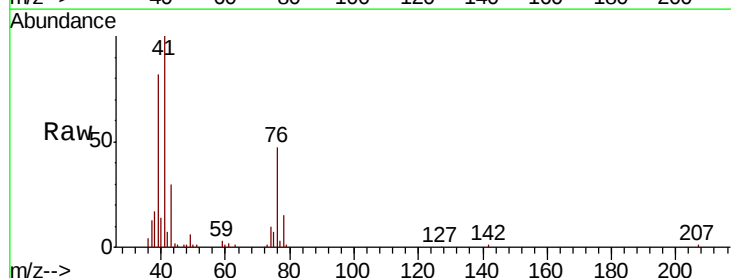
Tgt Ion: 41 Resp: 71323

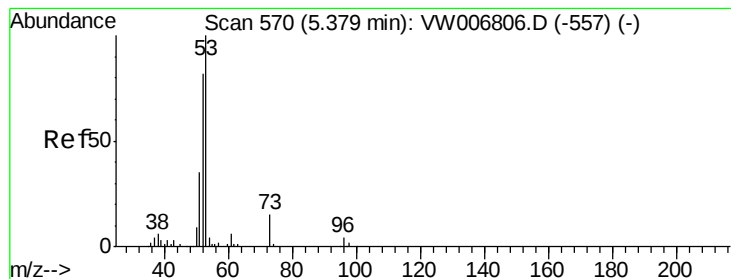
Ion Ratio Lower Upper

41 100

39 75.6 58.9 88.3

76 44.2 34.4 51.6





#15

Acrylonitrile

Concen: 94.927 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.01 min

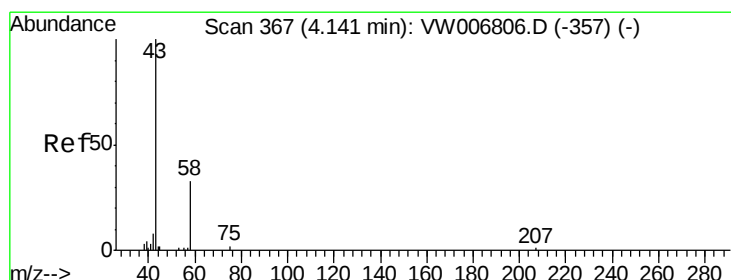
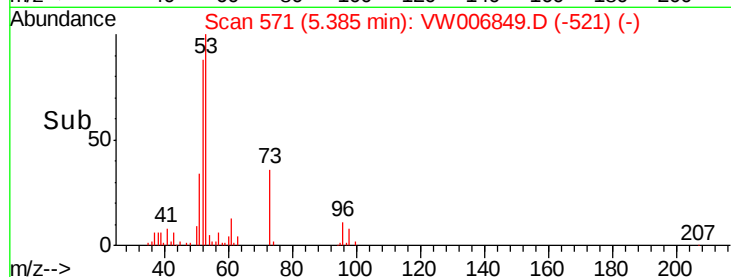
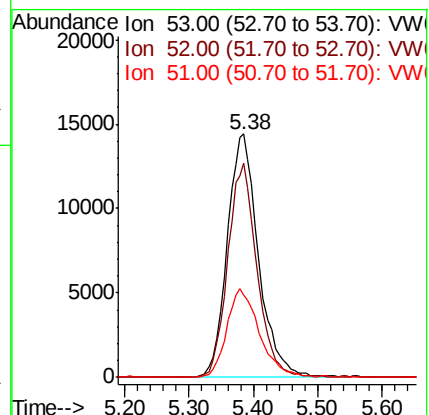
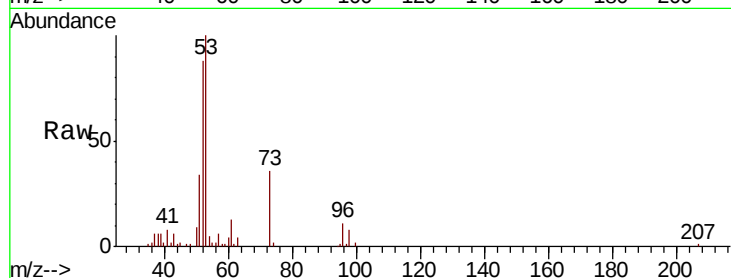
Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 53 Resp: 48913

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 82.3  | 65.2  | 97.8  |
| 51  | 38.0  | 30.0  | 45.0  |



#16

Acetone

Concen: 92.768 ug/l

RT: 4.15 min Scan# 368

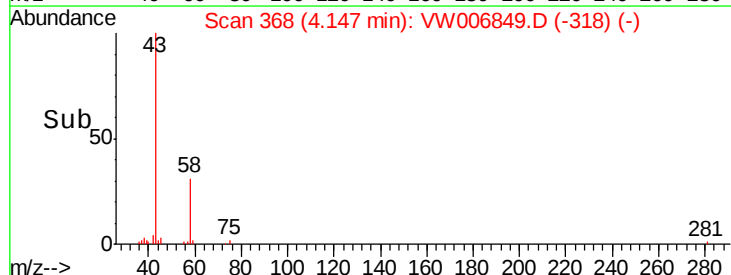
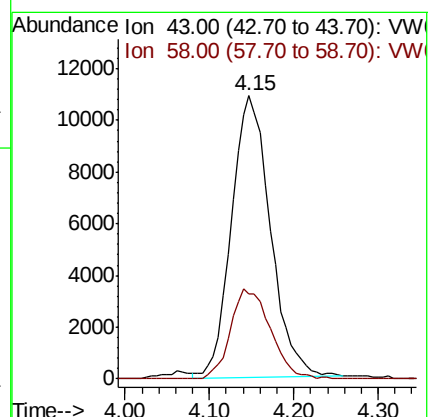
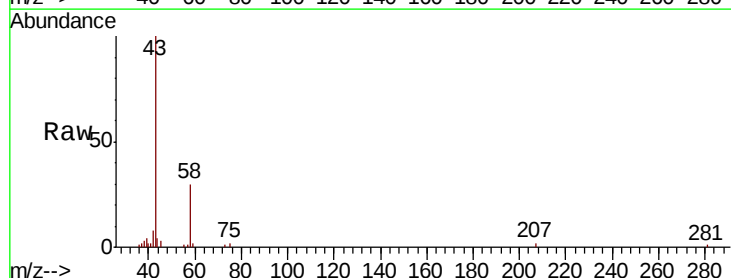
Delta R.T. 0.01 min

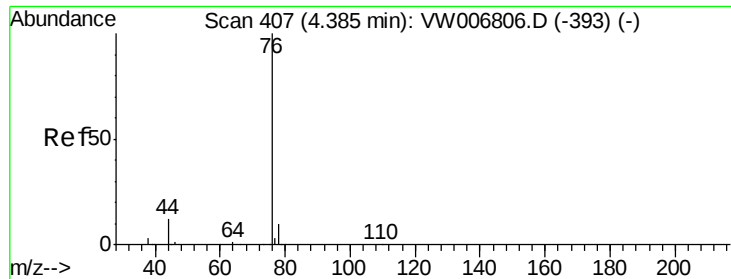
Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Tgt Ion: 43 Resp: 34243

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 30.5  | 26.5  | 39.7  |

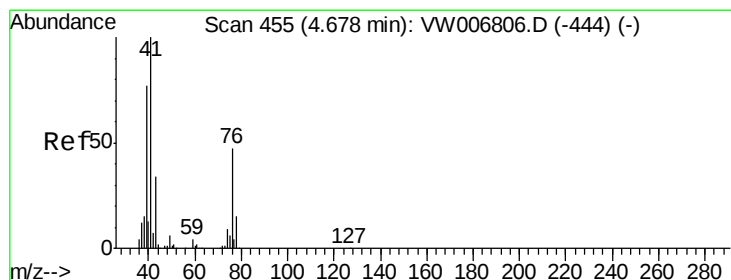
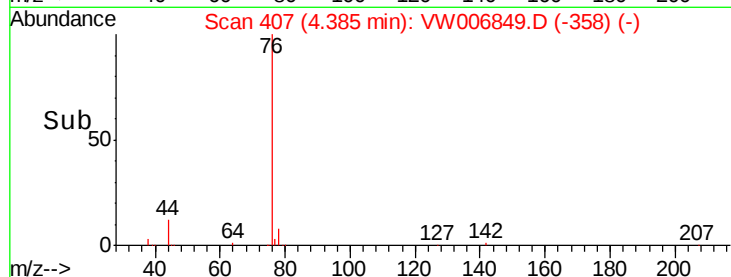
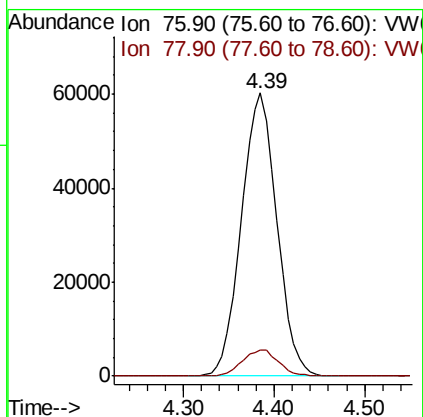
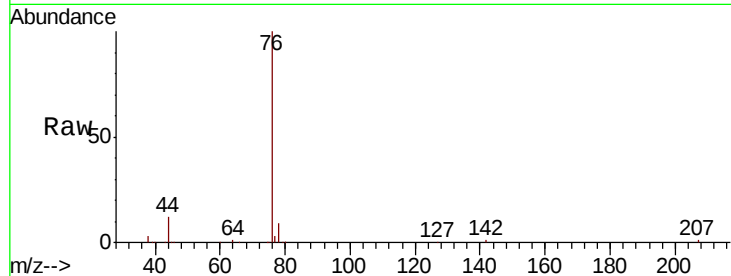




#17  
Carbon Disulfide  
Concen: 19.413 ug/l  
RT: 4.39 min Scan# 407  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

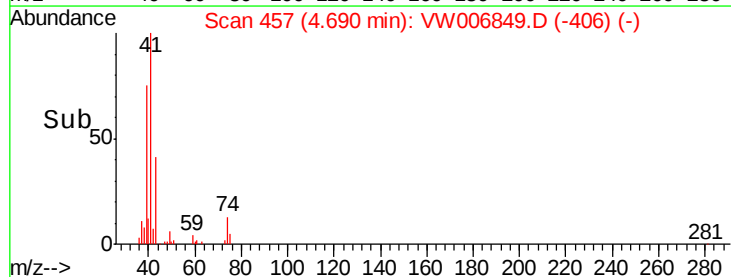
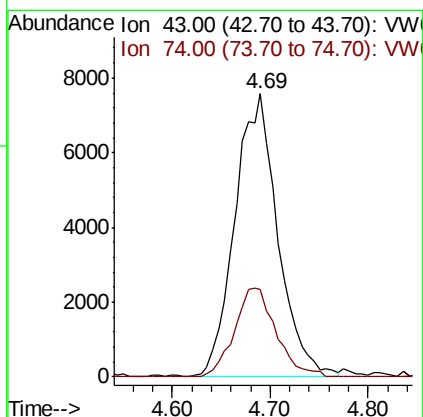
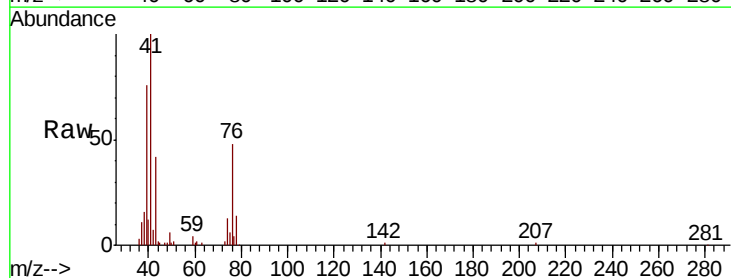
Instrument :  
MSVOA\_W  
ClientSampleId :

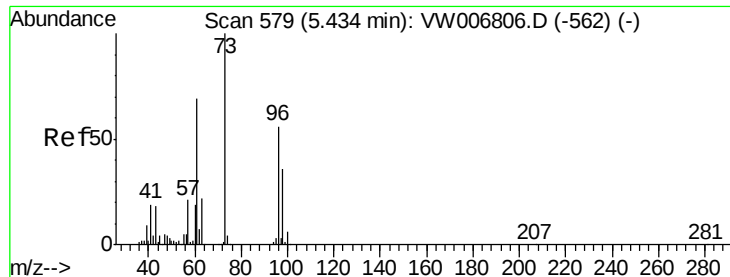
Tot Ion: 76 Resp: 163041  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.6 11.4



#18  
Methyl Acetate  
Concen: 18.329 ug/l  
RT: 4.69 min Scan# 457  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 43 Resp: 23143  
Ion Ratio Lower Upper  
43 100  
74 30.3 21.9 32.9



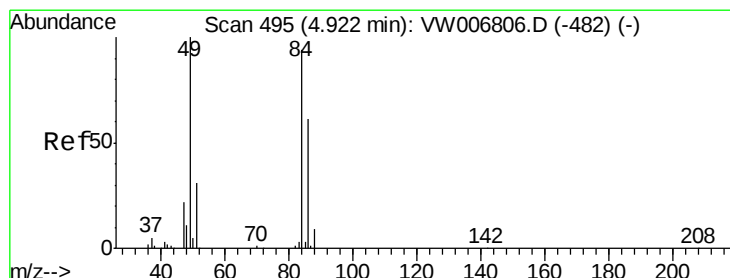
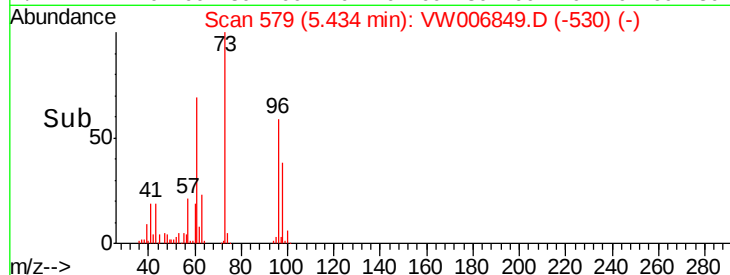
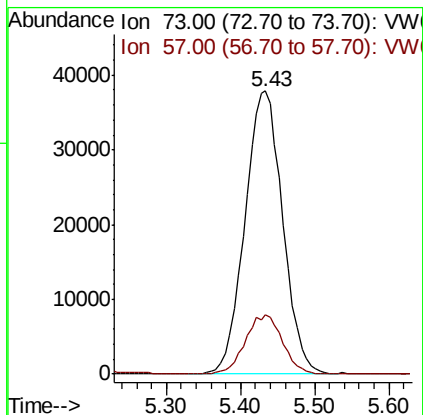
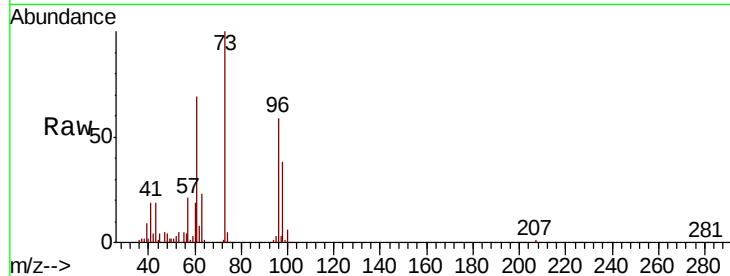


#19

Methyl tert-butyl Ether  
 Concen: 21.299 ug/l  
 RT: 5.43 min Scan# 579  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Instrument :  
 MSVOA\_W  
 ClientSampled :

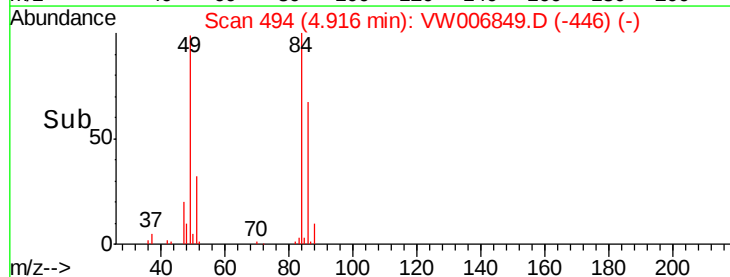
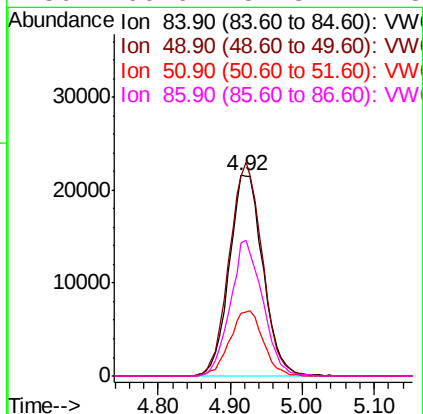
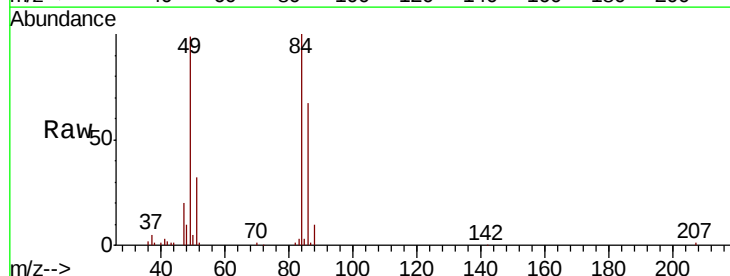
Tot Ion: 73 Resp: 134291  
 Ion Ratio Lower Upper  
 73 100  
 57 21.0 16.8 25.2

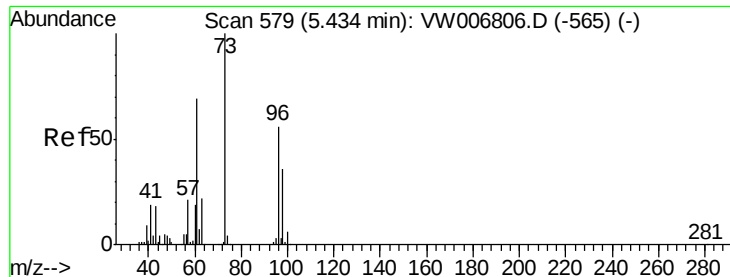


#20

Methylene Chloride  
 Concen: 17.468 ug/l  
 RT: 4.92 min Scan# 494  
 Delta R.T. -0.01 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 84 Resp: 70067  
 Ion Ratio Lower Upper  
 84 100  
 49 99.3 84.8 127.2  
 51 31.5 26.2 39.4  
 86 66.6 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 20.757 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

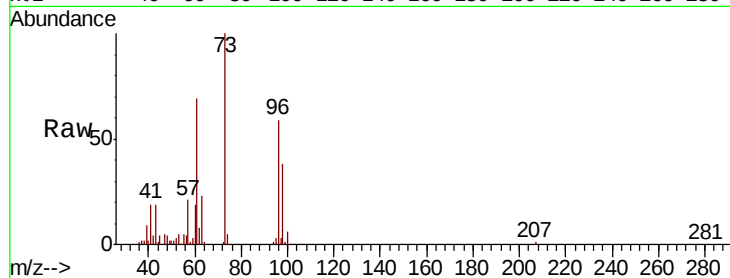
Tot Ion: 96 Resp: 65012

Ion Ratio Lower Upper

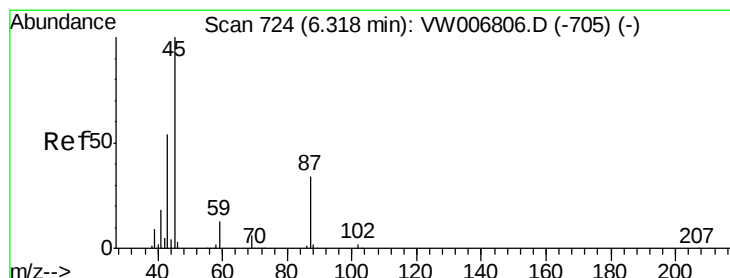
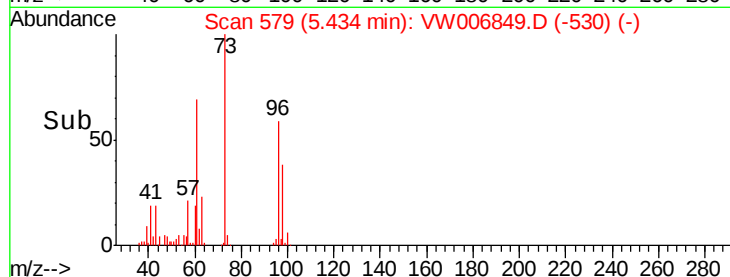
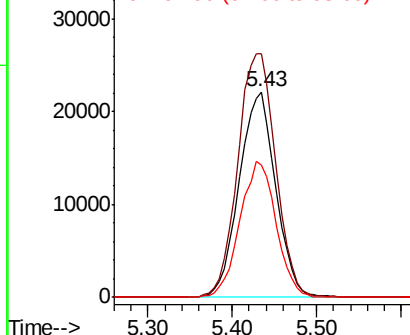
96 100

61 118.2 98.7 148.1

98 64.4 51.2 76.8



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



#22

Diisopropyl ether

Concen: 20.693 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Tgt Ion: 45 Resp: 150110

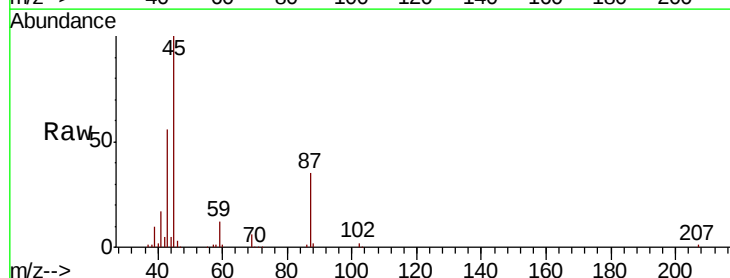
Ion Ratio Lower Upper

45 100

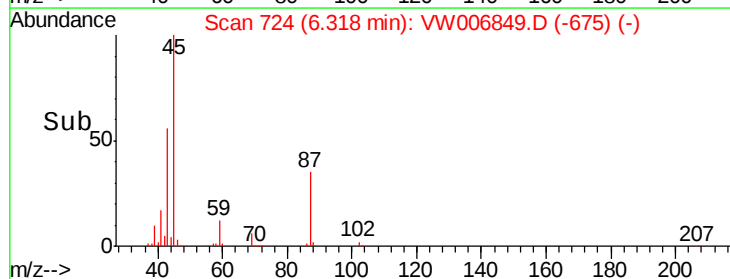
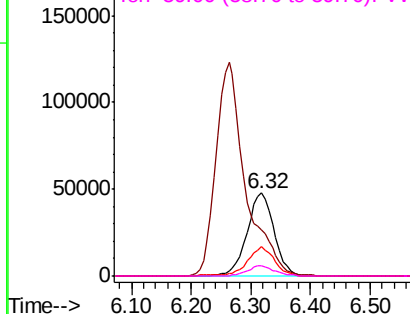
43 55.9 43.7 65.5

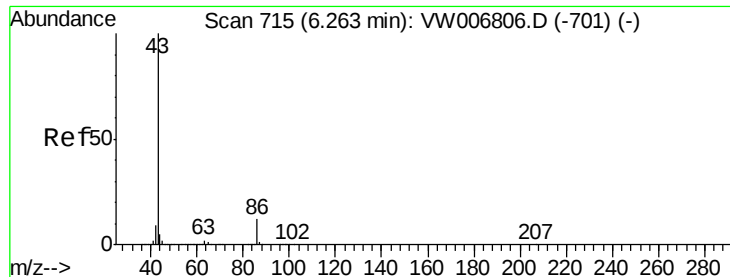
87 34.9 27.2 40.8

59 12.4 10.0 15.0



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





#23

Vinyl Acetate

Concen: 103.093 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

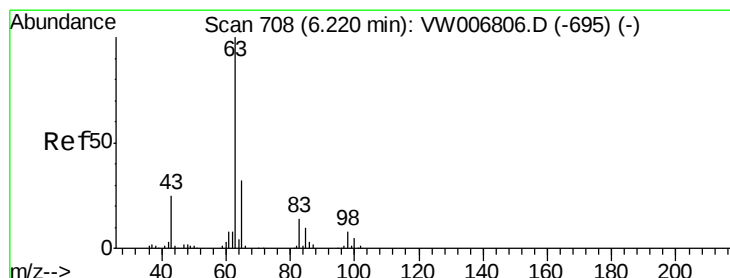
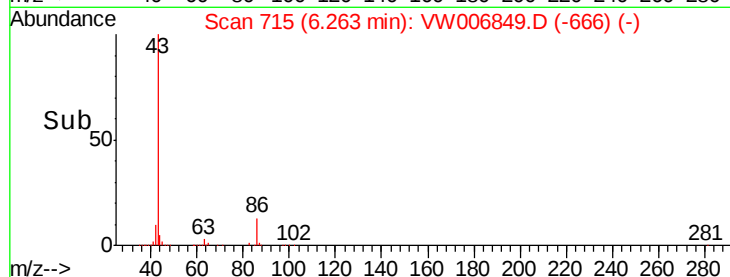
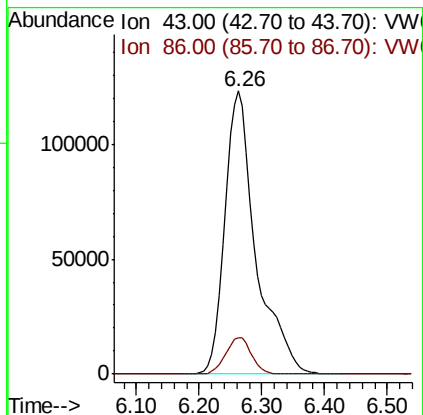
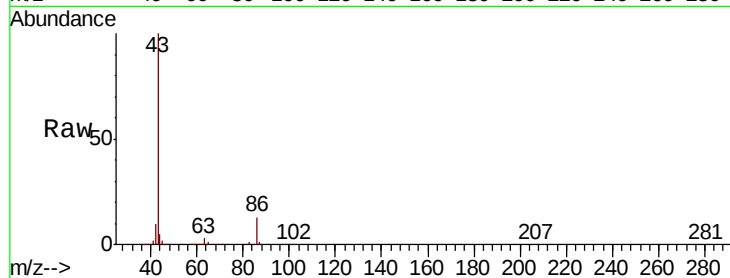
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 421604

Ion Ratio Lower Upper

43 100

86 12.7 9.6 14.4



#24

1,1-Dichloroethane

Concen: 20.467 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

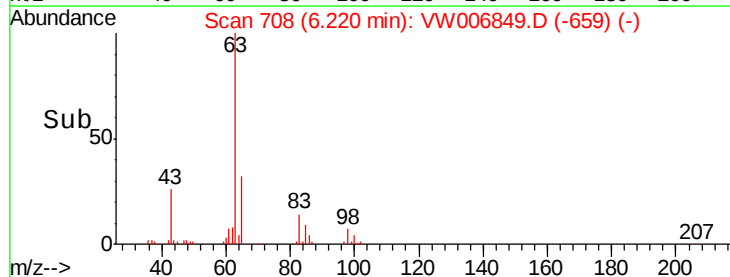
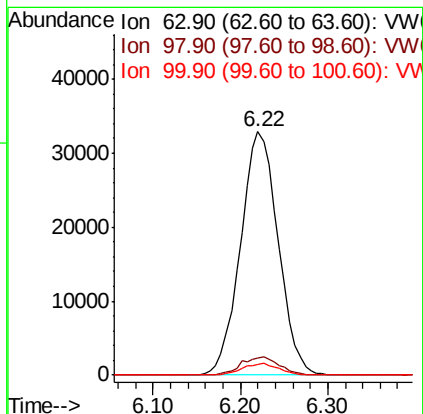
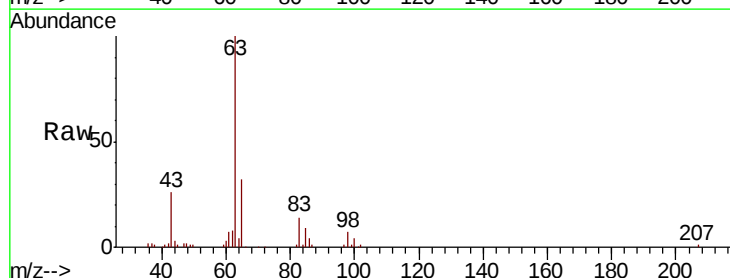
Tgt Ion: 63 Resp: 98469

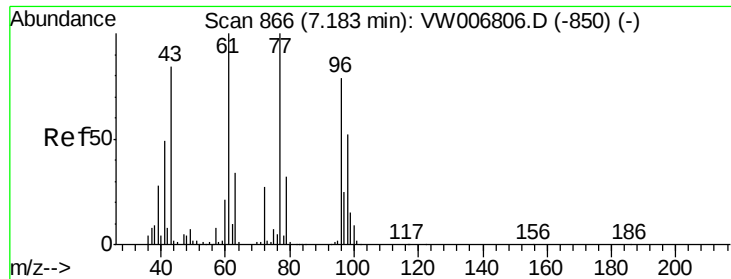
Ion Ratio Lower Upper

63 100

98 7.1 3.9 11.5

100 4.4 2.4 7.2





#25

2-Butanone

Concen: 95.600 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

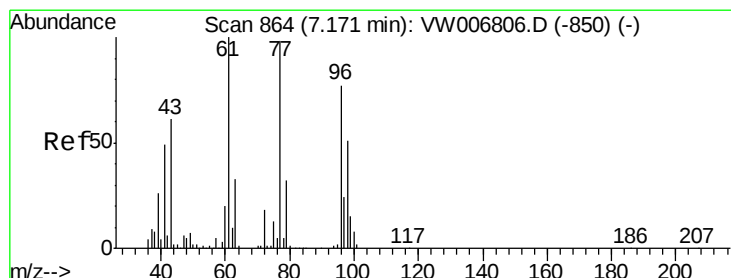
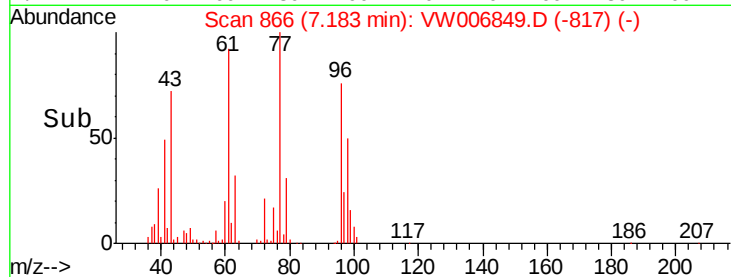
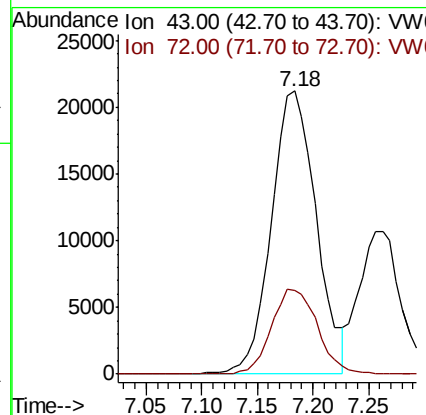
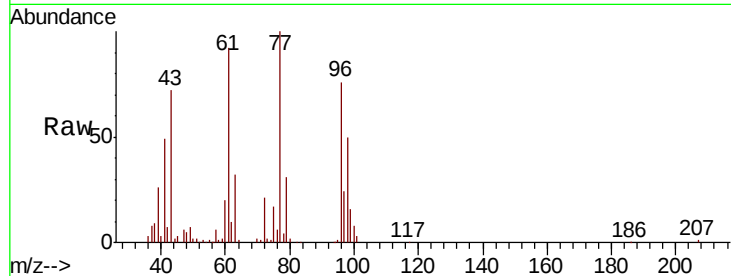
ClientSampled :

Tot Ion: 43 Resp: 59678

Ion Ratio Lower Upper

43 100

72 29.7 25.3 37.9



#26

2,2-Dichloropropane

Concen: 21.377 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW006849.D

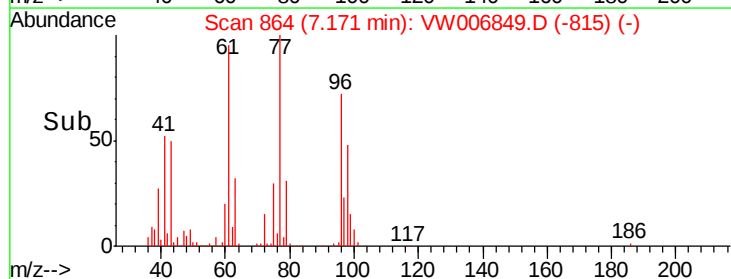
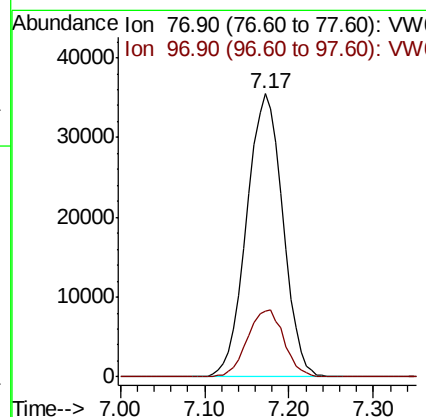
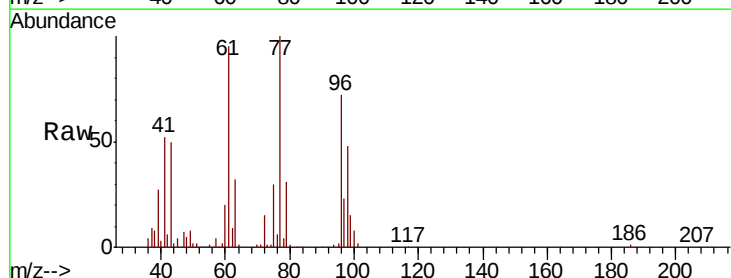
Acq: 13 Nov 2018 13:05

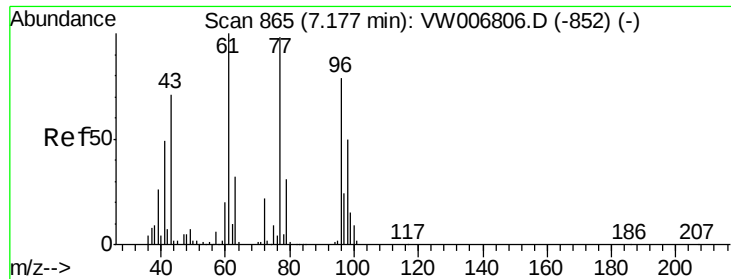
Tgt Ion: 77 Resp: 103483

Ion Ratio Lower Upper

77 100

97 23.8 12.0 36.1



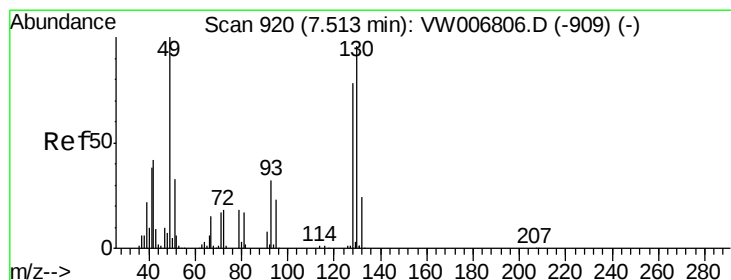
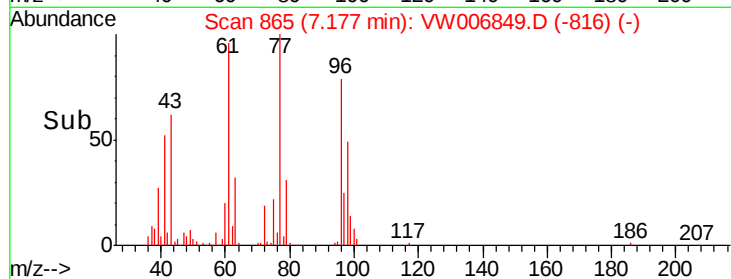
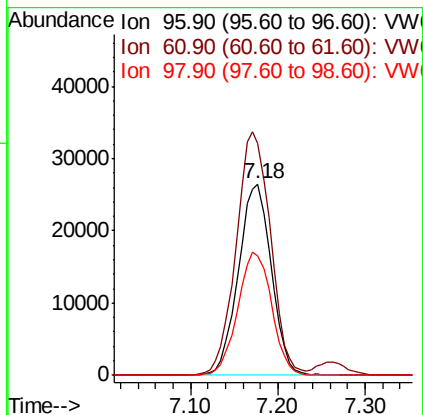
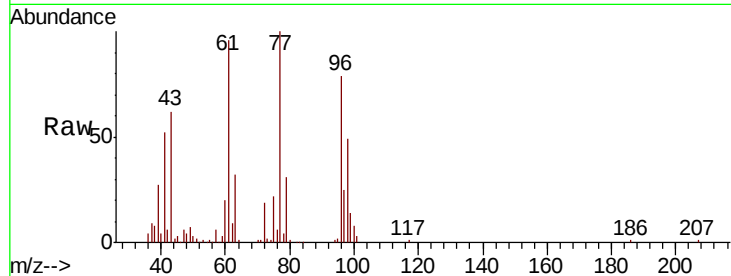


#27

cis-1,2-Dichloroethene  
 Concen: 20.832 ug/l  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Instrument :  
 MSVOA\_W  
 ClientSampled :

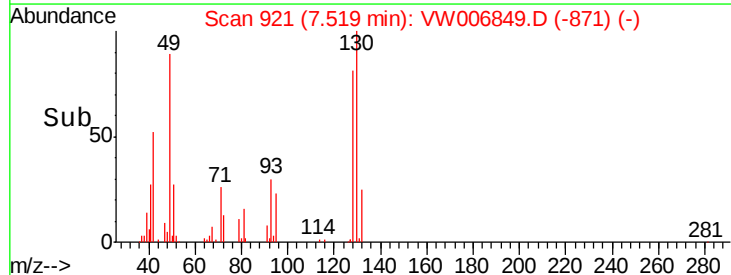
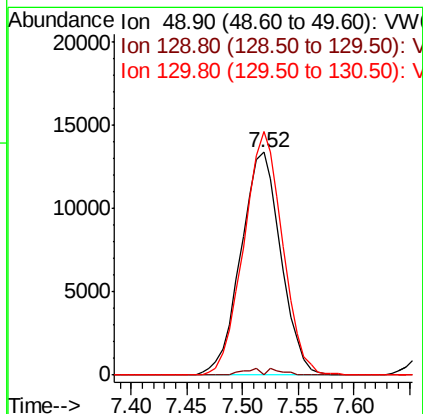
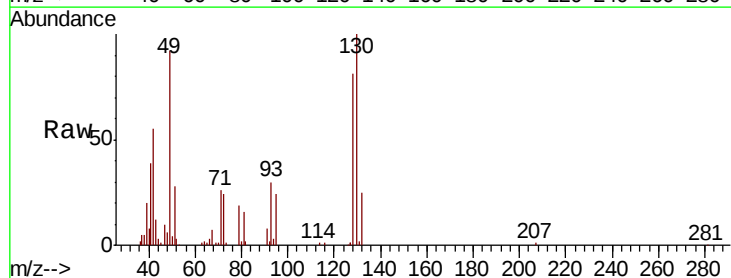
Tot Ion: 96 Resp: 69560  
 Ion Ratio Lower Upper  
 96 100  
 61 132.4 0.0 264.0  
 98 66.0 0.0 131.0

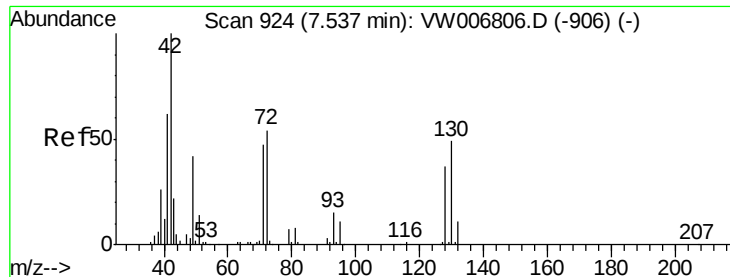


#28

Bromochloromethane  
 Concen: 19.871 ug/l  
 RT: 7.52 min Scan# 921  
 Delta R.T. 0.01 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 49 Resp: 33441  
 Ion Ratio Lower Upper  
 49 100  
 129 1.1 0.0 5.6  
 130 105.8 83.3 124.9

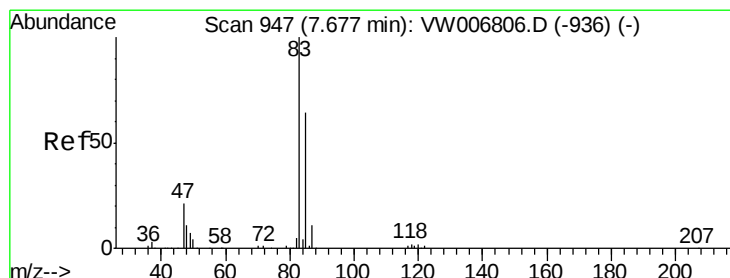
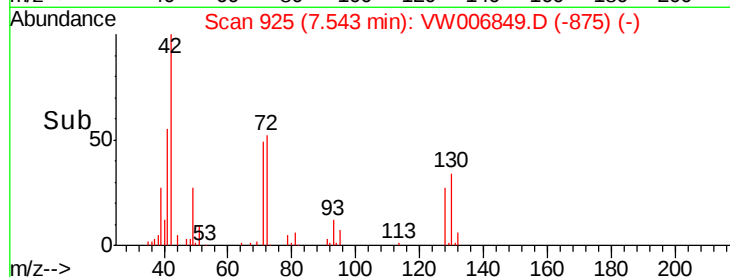
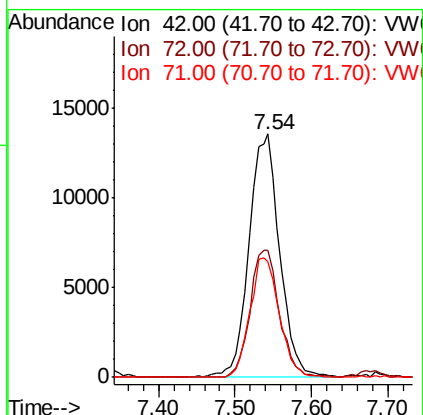
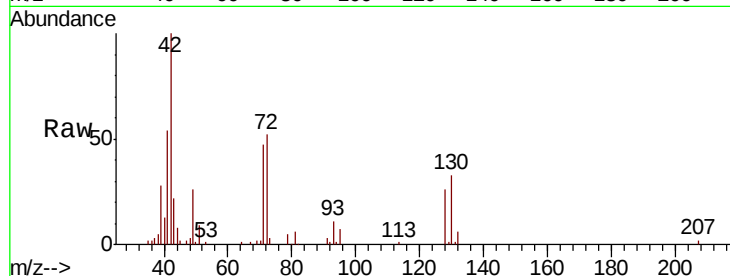




#29  
Tetrahydrofuran  
Concen: 94.757 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

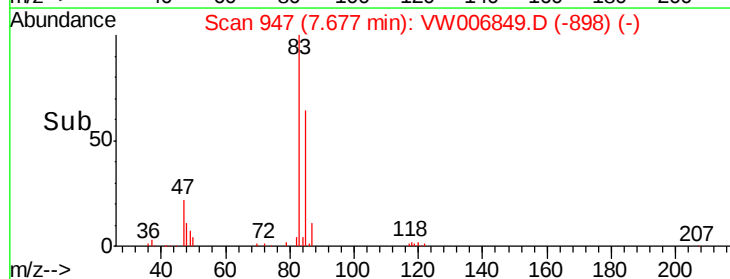
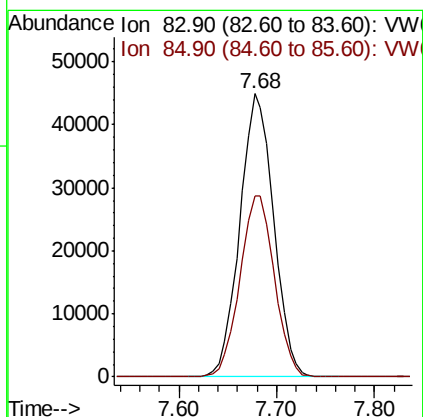
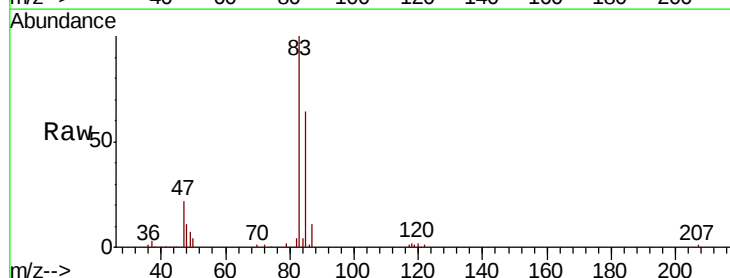
Instrument :  
MSVOA\_W  
ClientSampled :

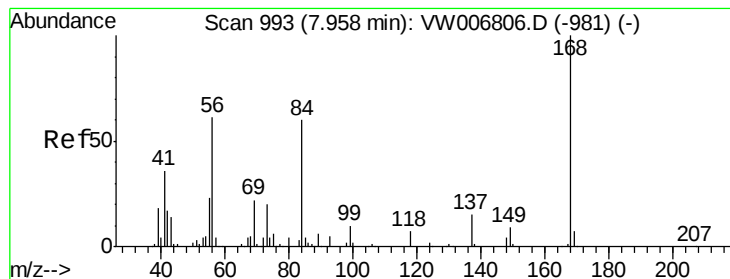
Tot Ion: 42 Resp: 37855  
Ion Ratio Lower Upper  
42 100  
72 50.1 40.9 61.3  
71 47.0 36.9 55.3



#30  
Chloroform  
Concen: 20.467 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 83 Resp: 107517  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.5 77.3





#31

Cyclohexane

Concen: 21.622 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

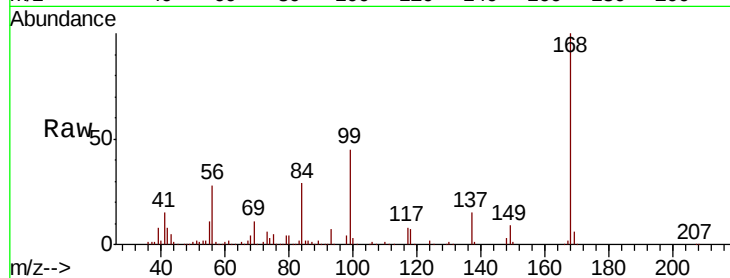
Tot Ion: 56 Resp: 106482

Ion Ratio Lower Upper

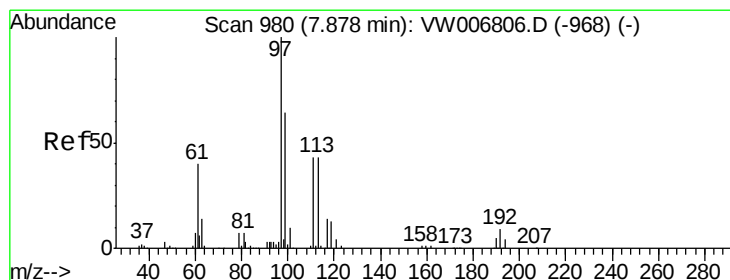
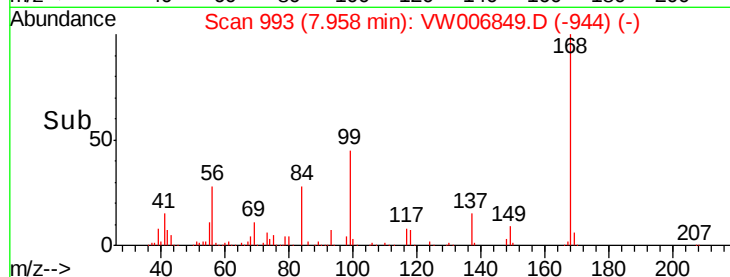
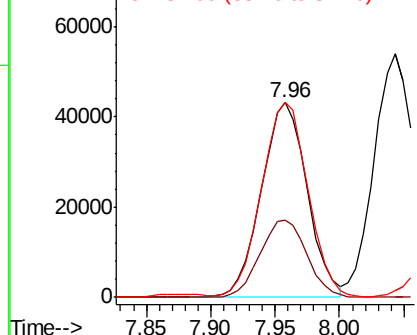
56 100

69 39.8 28.9 43.3

84 98.9 79.0 118.4



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



#32

1,1,1-Trichloroethane

Concen: 21.854 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

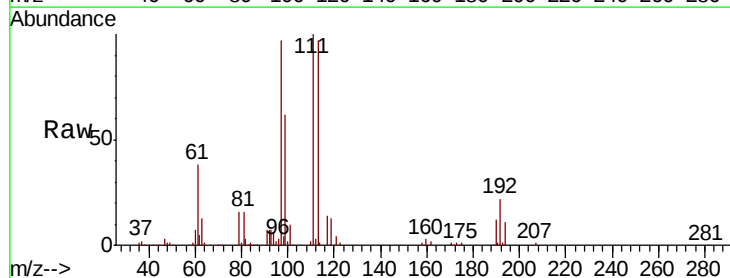
Tgt Ion: 97 Resp: 110813

Ion Ratio Lower Upper

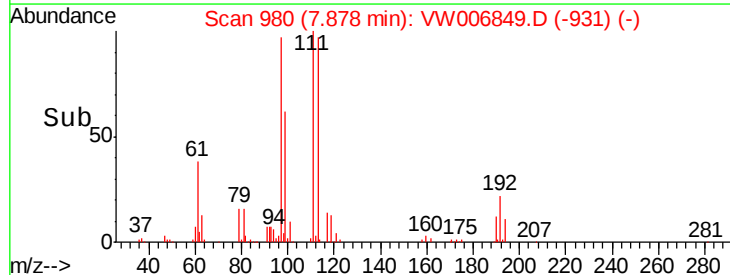
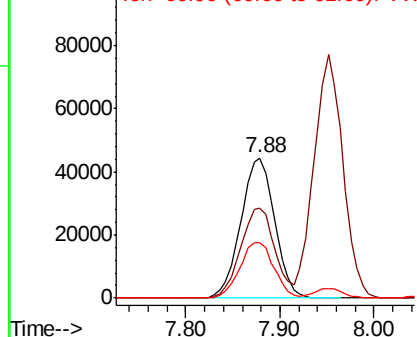
97 100

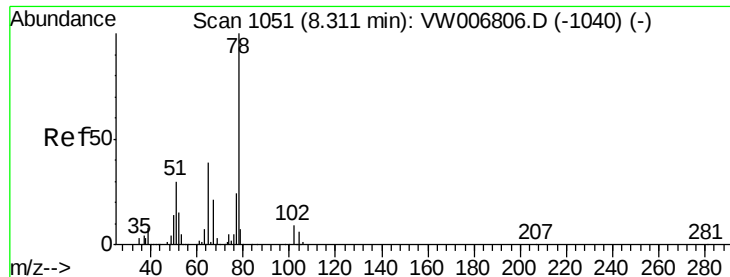
99 65.6 51.6 77.4

61 40.2 32.2 48.4



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

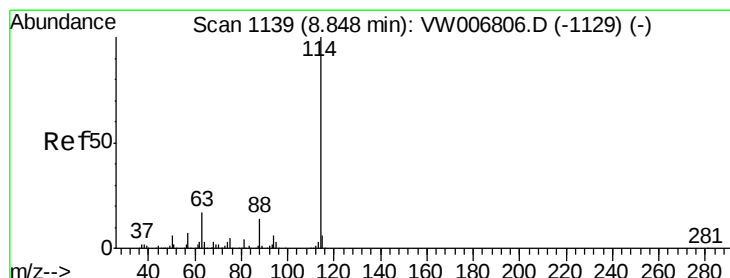
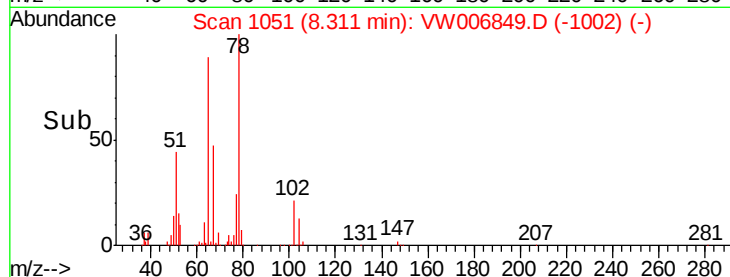
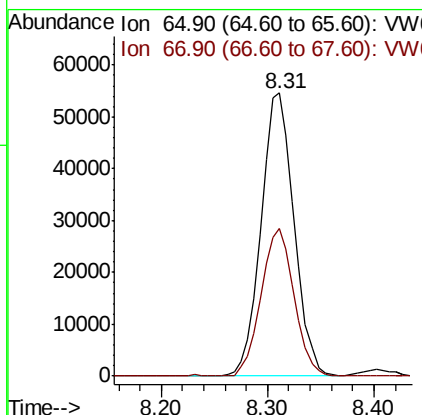
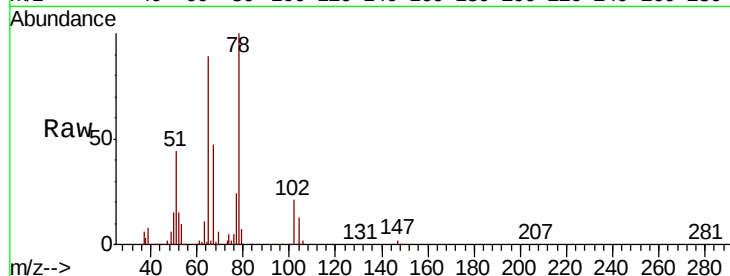




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.971 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

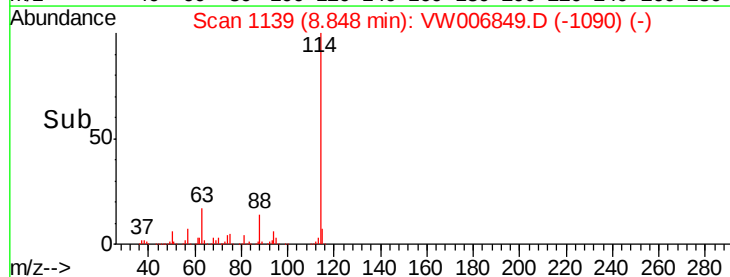
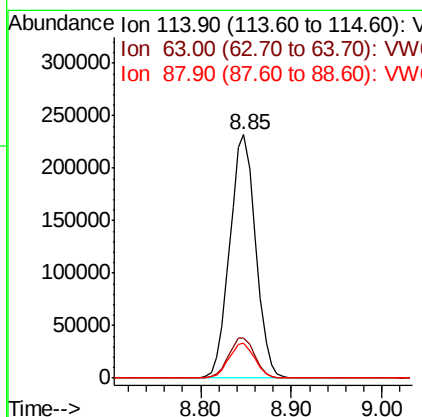
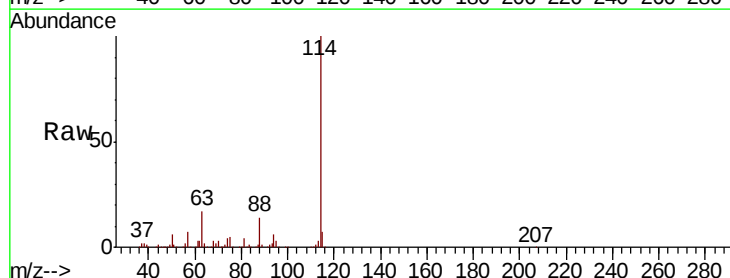
Instrument :  
 MSVOA\_W  
 ClientSampleId :

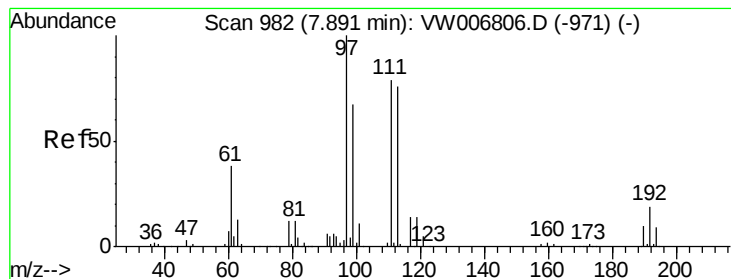
Tot Ion: 65 Resp: 118156  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 114 Resp: 459860  
 Ion Ratio Lower Upper  
 114 100  
 63 16.6 0.0 33.6  
 88 14.4 0.0 28.4





#35

Dibromofluoromethane

Concen: 46.296 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampled :

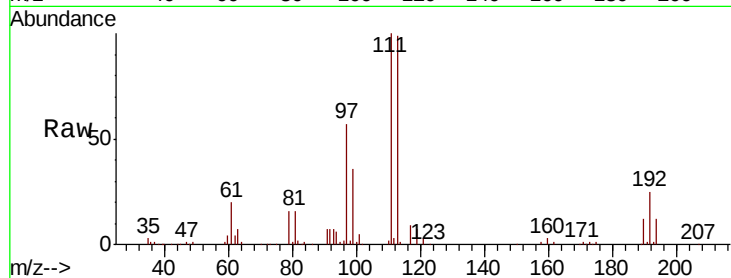
Tot Ion:113 Resp: 126773

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.6

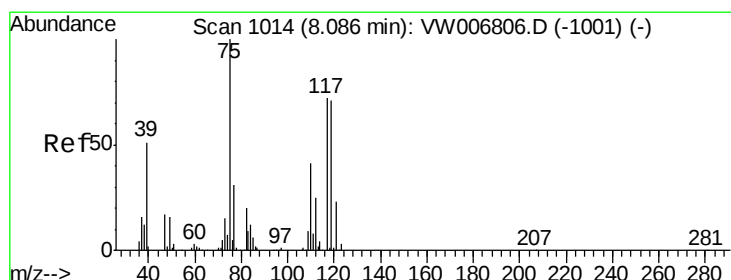
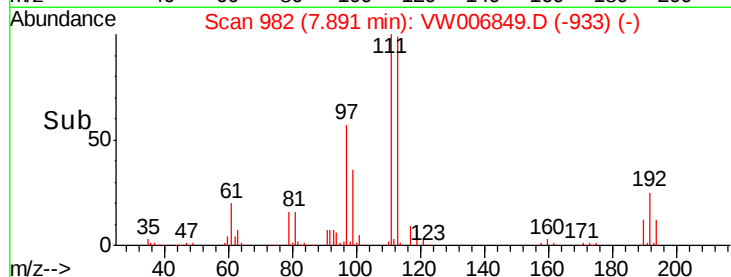
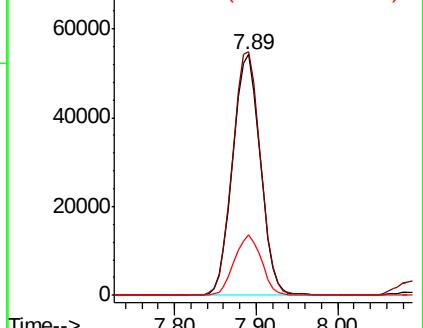
192 24.5 19.0 28.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 22.087 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

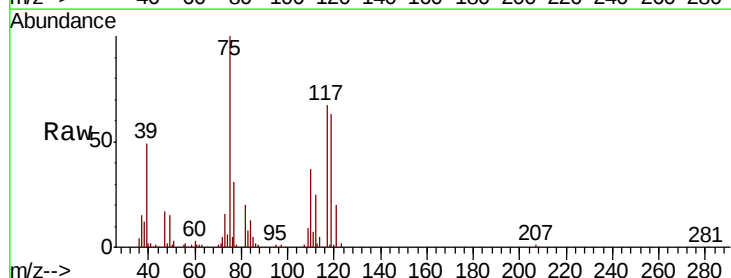
Tgt Ion: 75 Resp: 95051

Ion Ratio Lower Upper

75 100

110 38.8 19.9 59.6

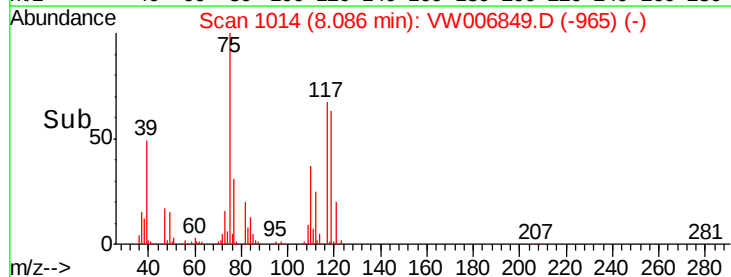
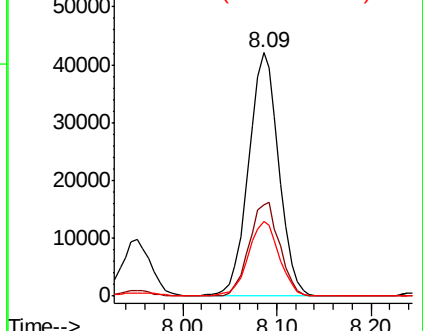
77 31.4 25.4 38.2

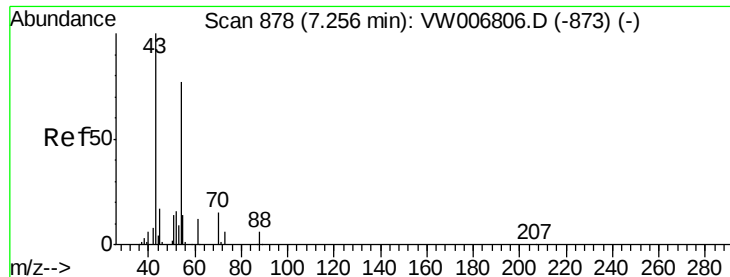


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

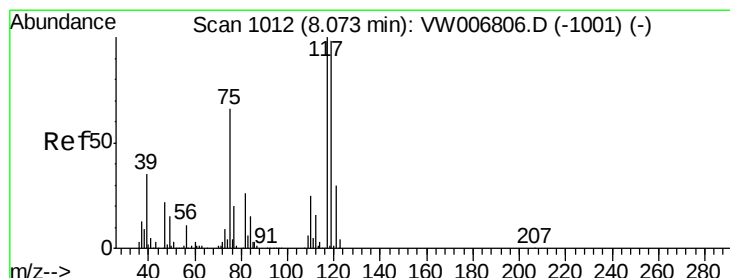
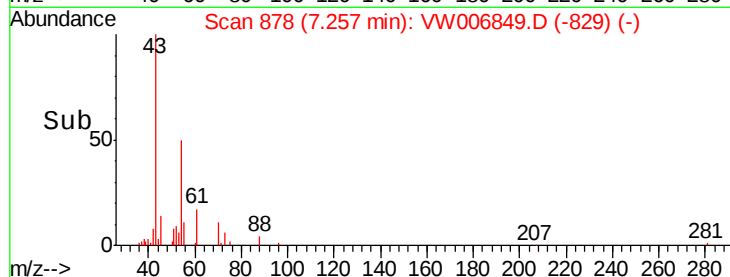
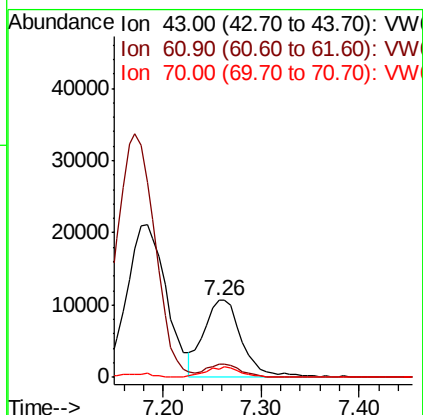
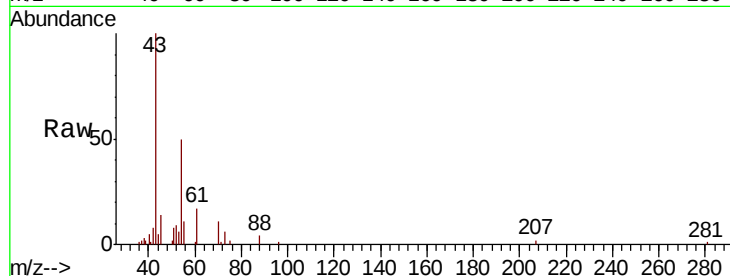




#37  
Ethyl Acetate  
Concen: 20.270 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

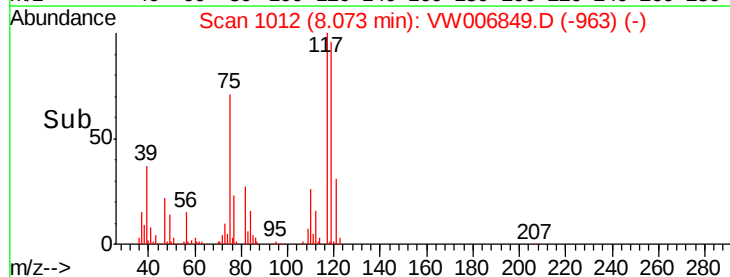
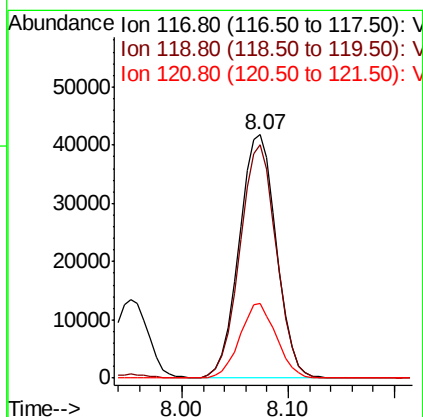
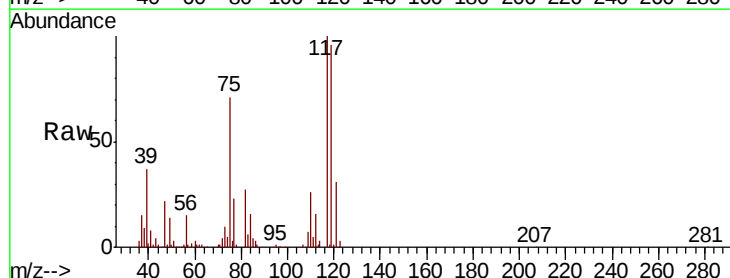
Instrument :  
MSVOA\_W  
ClientSampled :

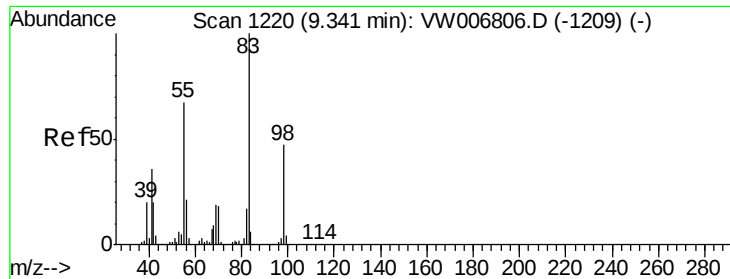
Tot Ion: 43 Resp: 28524  
Ion Ratio Lower Upper  
43 100  
61 15.8 11.7 17.5  
70 12.3 10.0 15.0



#38  
Carbon Tetrachloride  
Concen: 21.929 ug/l  
RT: 8.07 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 117 Resp: 102569  
Ion Ratio Lower Upper  
117 100  
119 95.7 78.5 117.7  
121 30.6 24.2 36.2

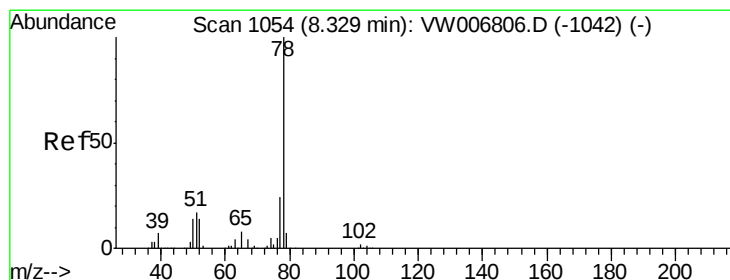
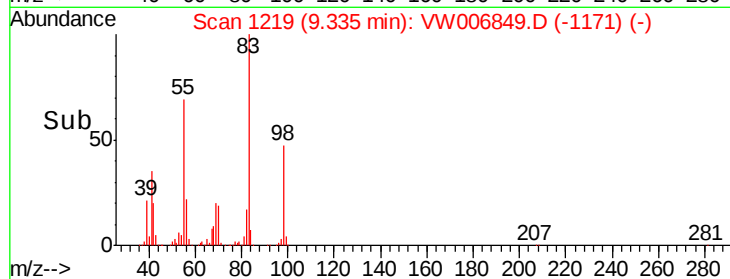
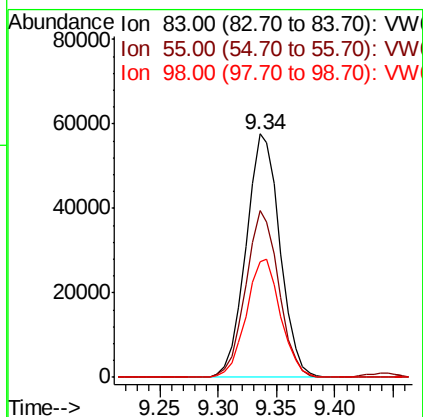
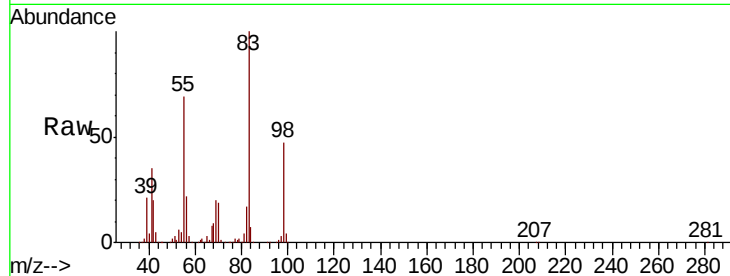




#39  
Methylcyclohexane  
Concen: 20.873 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

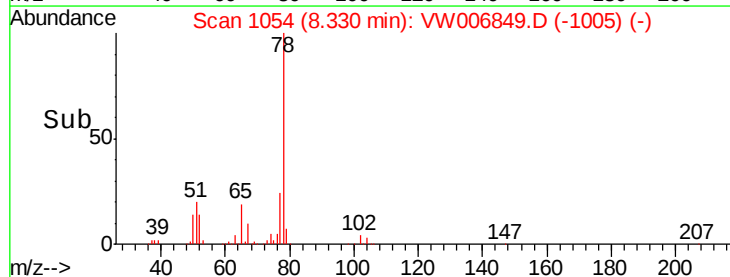
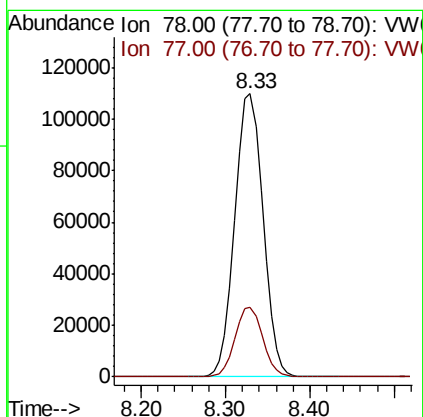
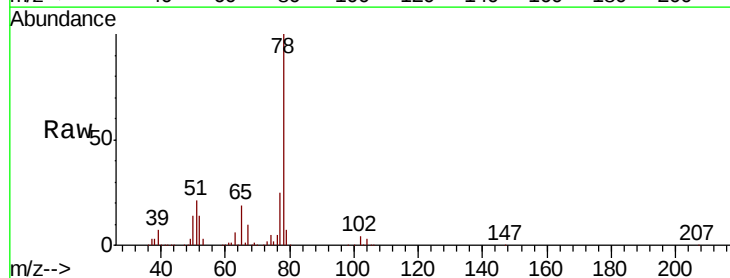
Instrument :  
MSVOA\_W  
ClientSampleId :

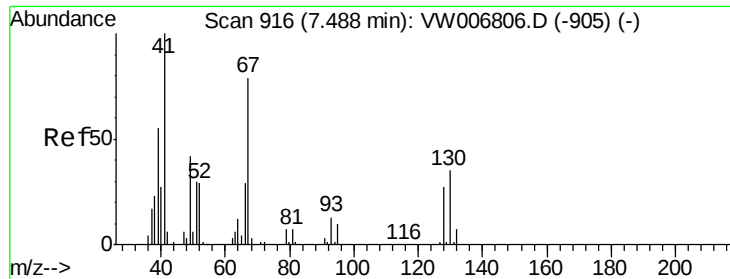
| Tot Ion   | 83    | Resp  | 116539 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 68.5  | 53.3  | 79.9   |
| 98        | 47.3  | 37.9  | 56.9   |



#40  
Benzene  
Concen: 20.840 ug/l  
RT: 8.33 min Scan# 1054  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

| Tgt Ion   | 78    | Resp  | 249378 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 24.5  | 19.0  | 28.6   |

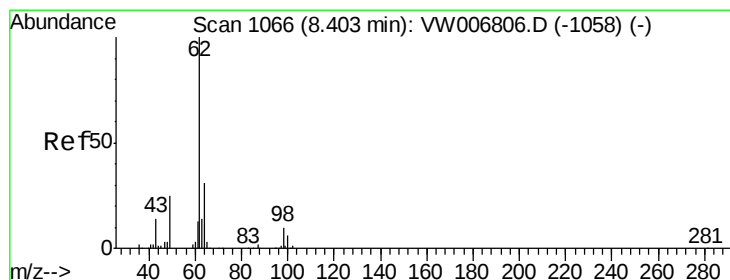
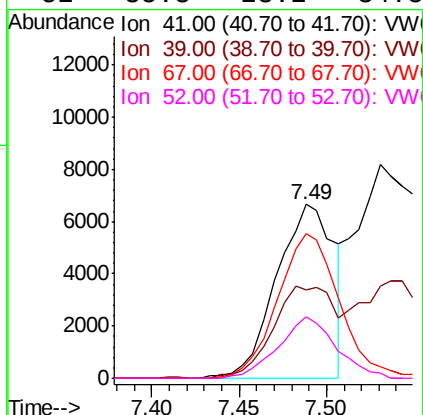
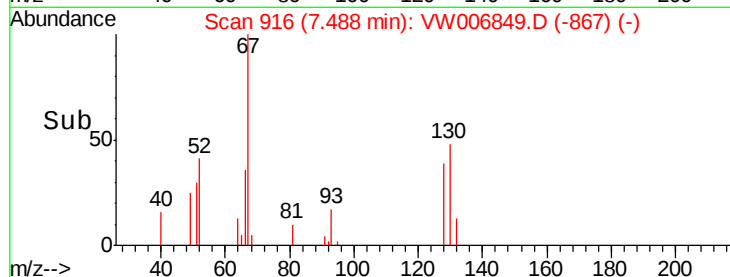
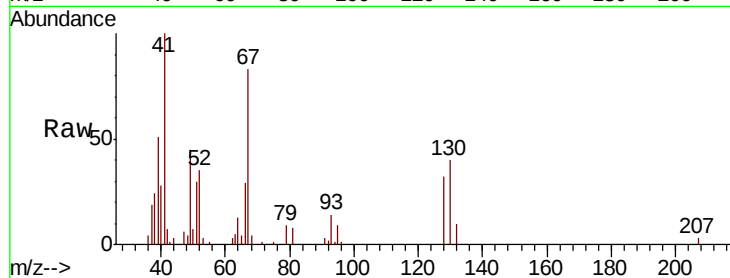




#41  
Methacrylonitrile  
Concen: 17.712 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

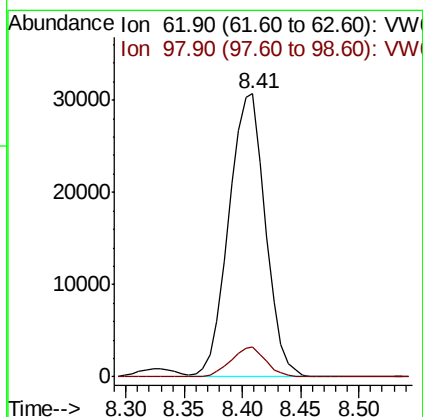
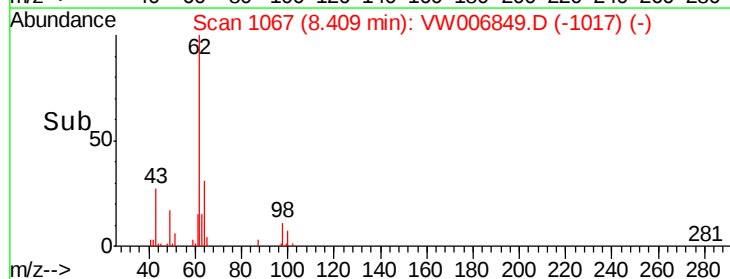
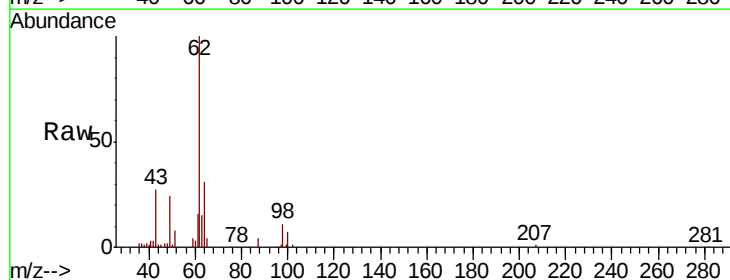
Instrument :  
MSVOA\_W  
ClientSampleId :

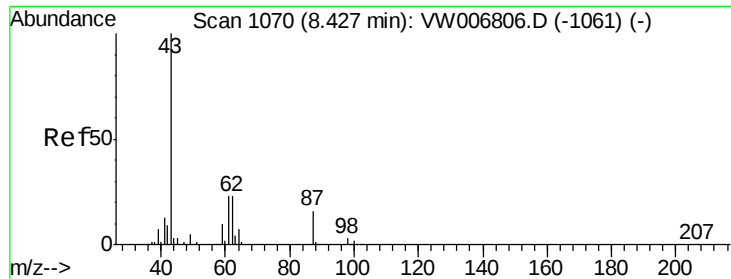
Tot Ion: 41 Resp: 15304  
Ion Ratio Lower Upper  
41 100  
39 55.6 48.1 72.1  
67 89.5 61.4 92.2  
52 35.3 23.2 34.8#



#42  
1,2-Dichloroethane  
Concen: 20.945 ug/l  
RT: 8.41 min Scan# 1067  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 62 Resp: 67149  
Ion Ratio Lower Upper  
62 100  
98 10.0 0.0 20.0





#43

Isopropyl Acetate

Concen: 19.643 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

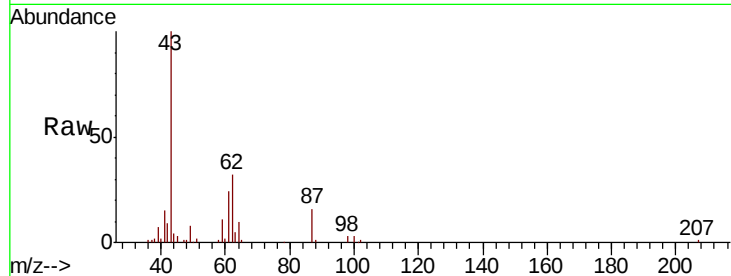
Tot Ion: 43 Resp: 53757

Ion Ratio Lower Upper

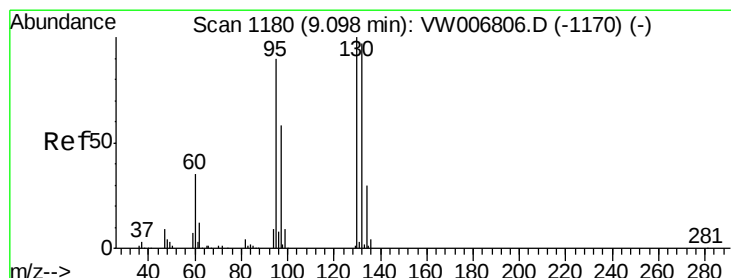
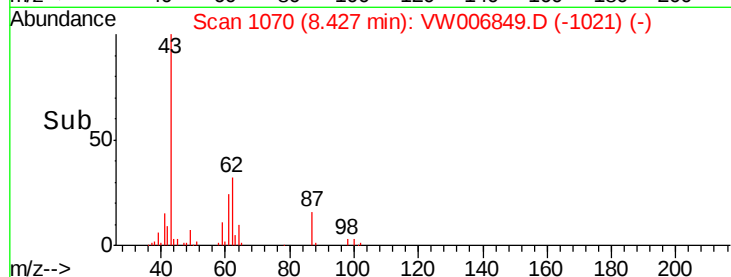
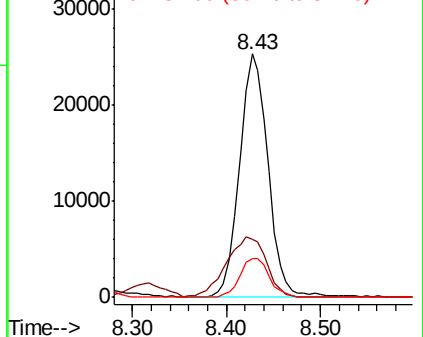
43 100

61 34.3 27.0 40.4

87 16.5 13.0 19.4



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: 21.620 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW006849.D

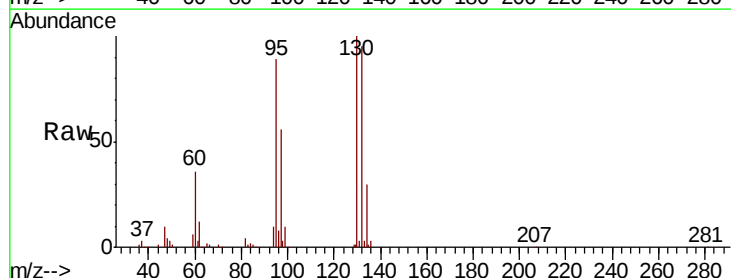
Acq: 13 Nov 2018 13:05

Tgt Ion: 130 Resp: 81634

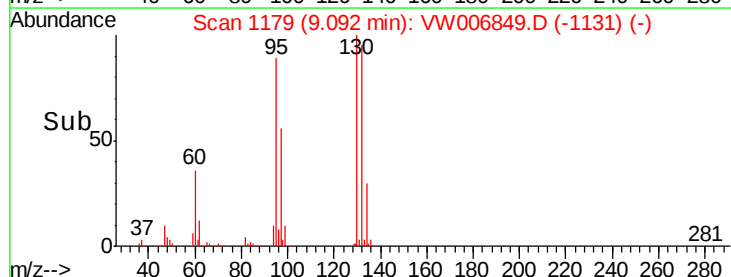
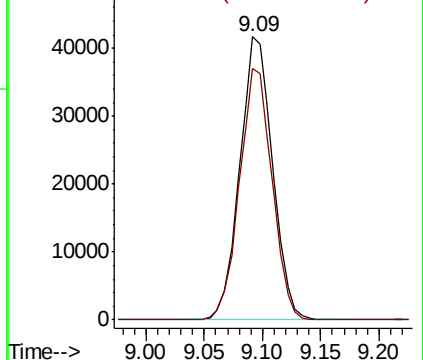
Ion Ratio Lower Upper

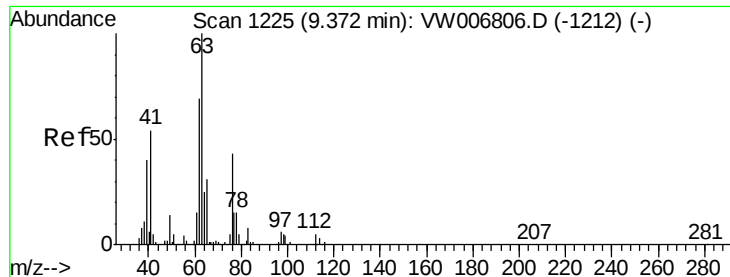
130 100

95 88.8 0.0 180.2



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





#45

1,2-Dichloropropane

Concen: 20.999 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

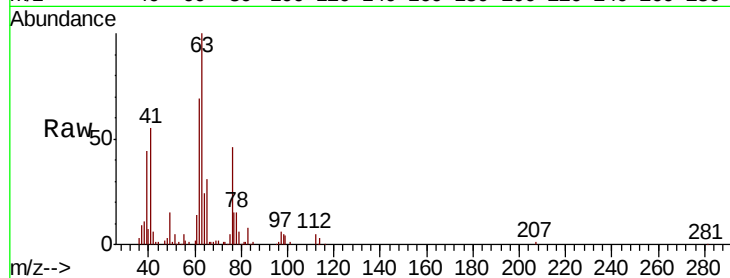
ClientSampleId :

Tot Ion: 63 Resp: 58565

Ion Ratio Lower Upper

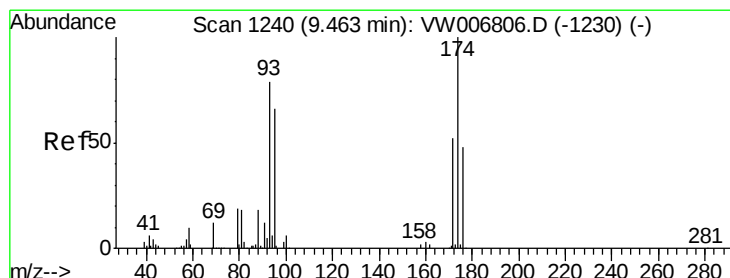
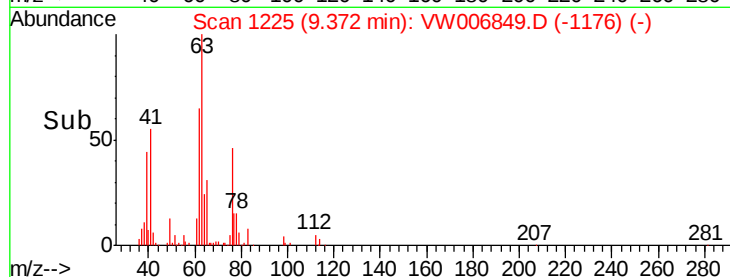
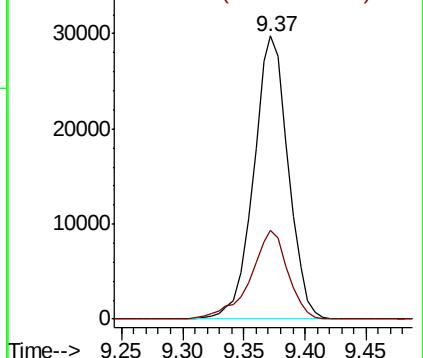
63 100

65 31.3 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 20.227 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

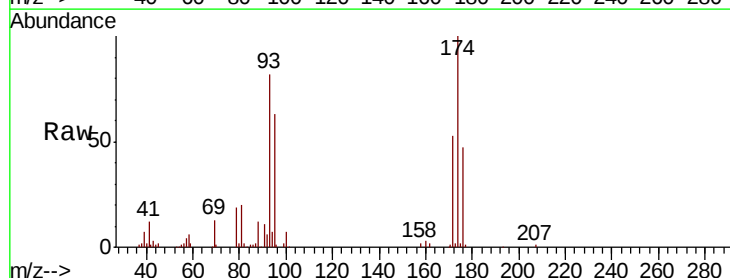
Tgt Ion: 93 Resp: 31402

Ion Ratio Lower Upper

93 100

95 82.5 67.0 100.6

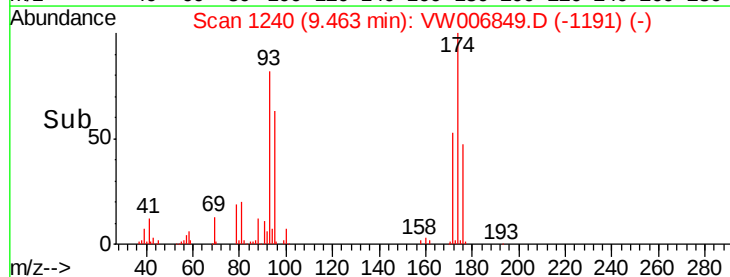
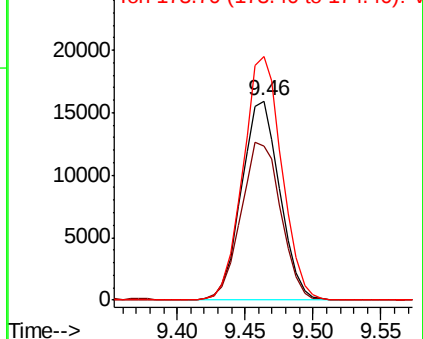
174 123.7 98.6 147.8

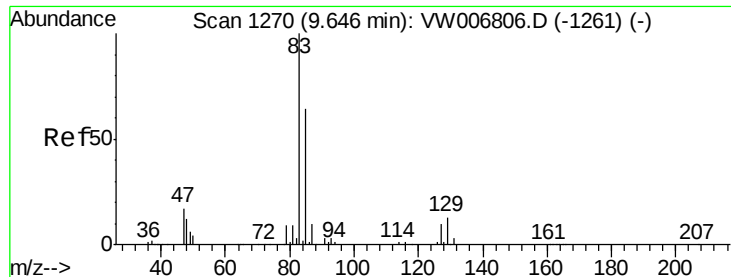


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V

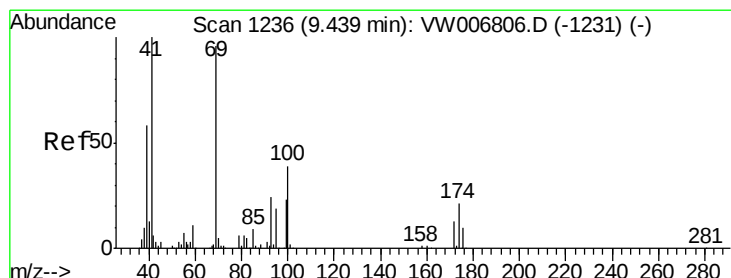
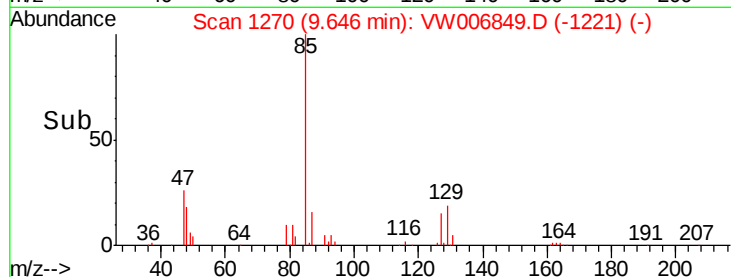
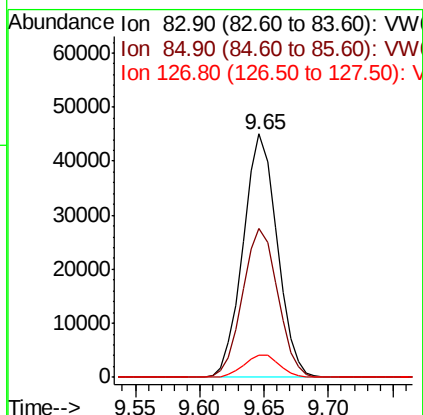
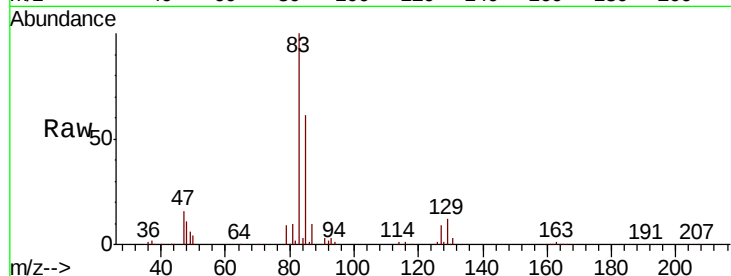




#47  
Bromodichloromethane  
Concen: 21.379 ug/l  
RT: 9.65 min Scan# 1270  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

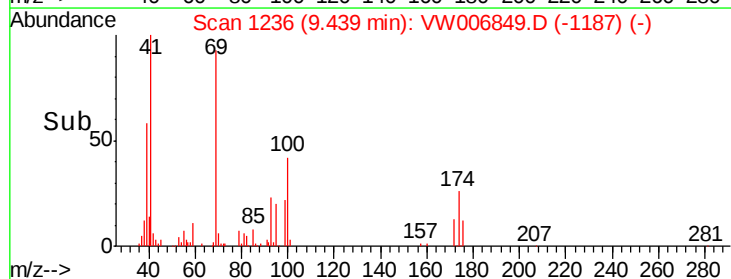
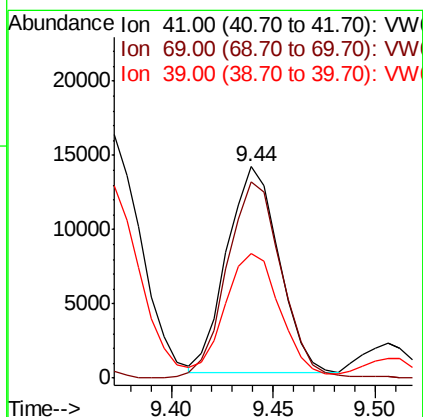
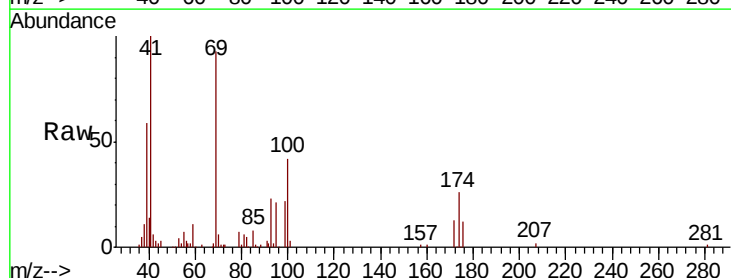
Instrument :  
MSVOA\_W  
ClientSampled :

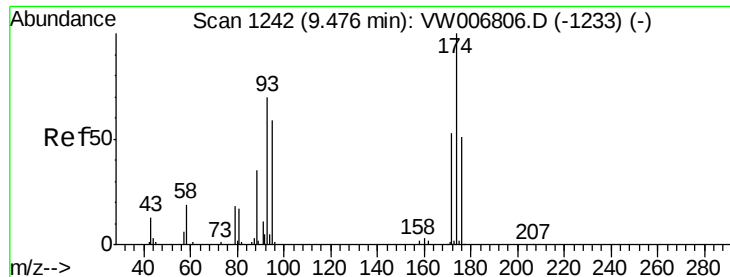
Tot Ion: 83 Resp: 82321  
Ion Ratio Lower Upper  
83 100  
85 61.4 51.4 77.0  
127 9.0 7.6 11.4



#48  
Methyl methacrylate  
Concen: 18.218 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 41 Resp: 24444  
Ion Ratio Lower Upper  
41 100  
69 100.7 79.8 119.6  
39 60.6 45.9 68.9

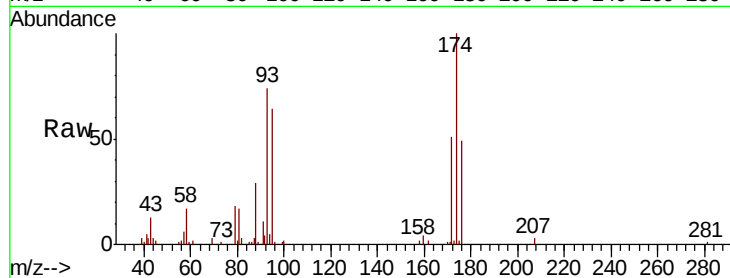




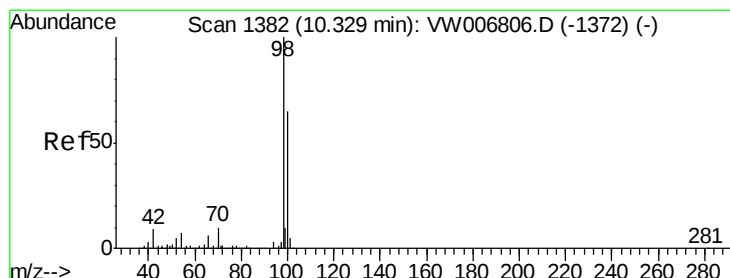
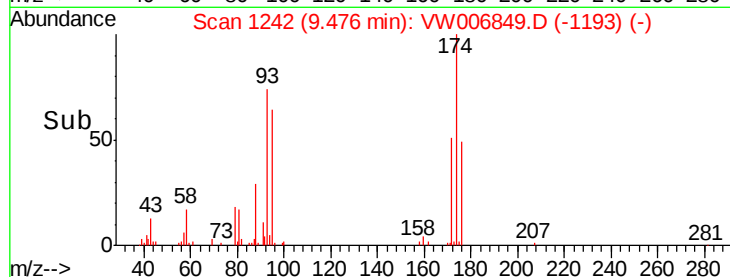
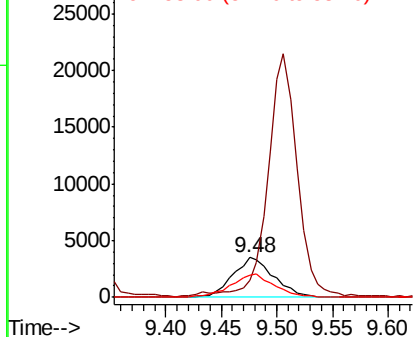
#49  
1,4-Dioxane  
Concen: 381.458 ug/l  
RT: 9.48 min Scan# 1242  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 88 Resp: 8947  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 62.8 50.6 75.8

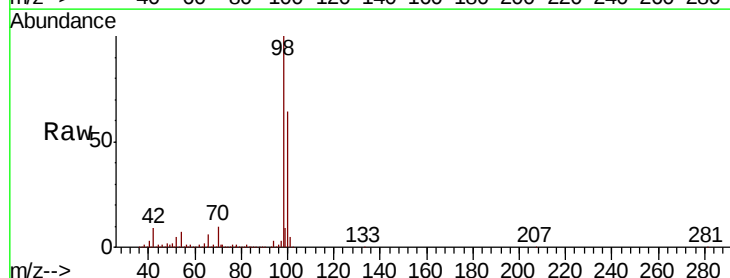


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

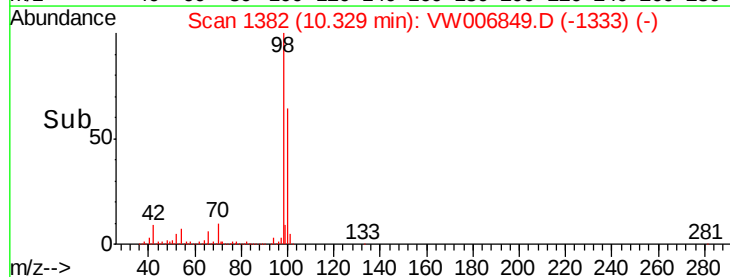
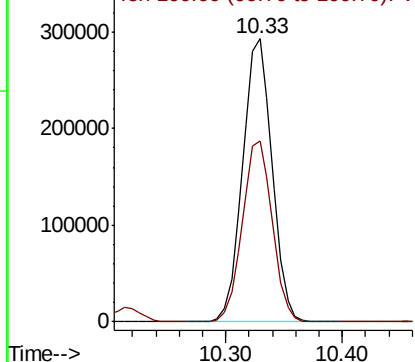


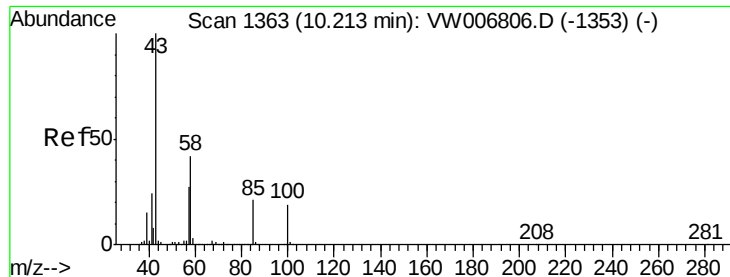
#50  
Toluene-d8  
Concen: 45.593 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 98 Resp: 517480  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 93.660 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

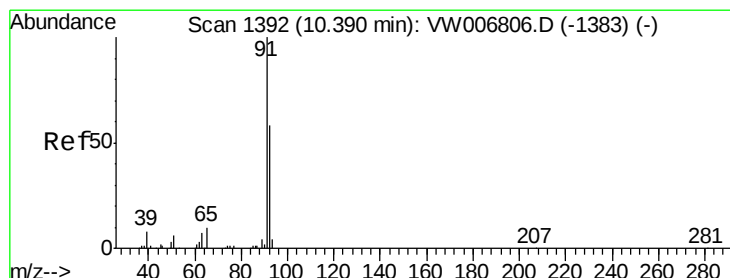
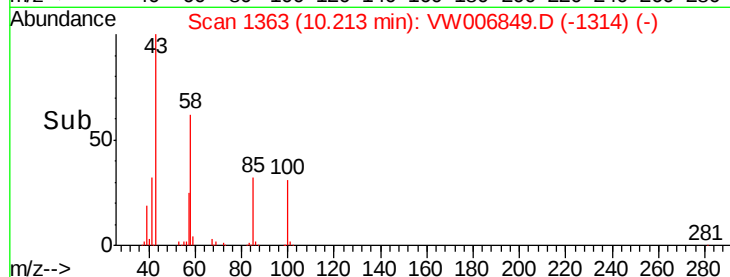
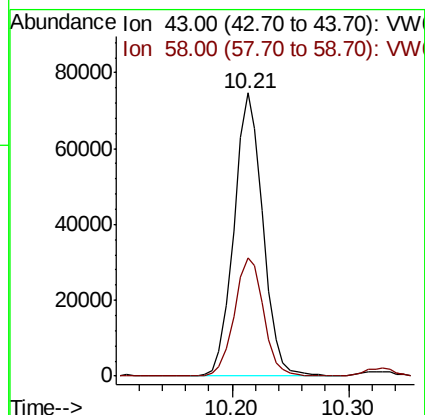
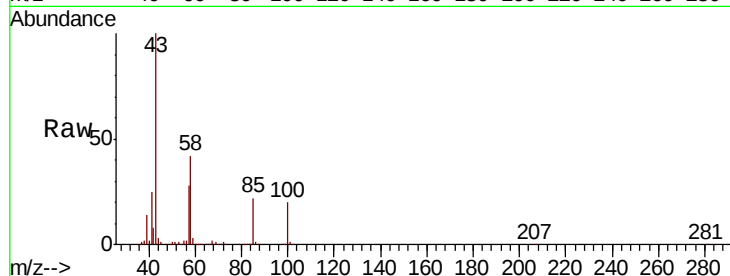
ClientSampled :

Tot Ion: 43 Resp: 128528

Ion Ratio Lower Upper

43 100

58 42.2 34.0 51.0



#52

Toluene

Concen: 20.569 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006849.D

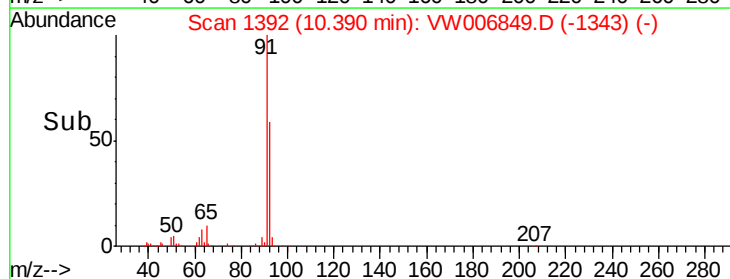
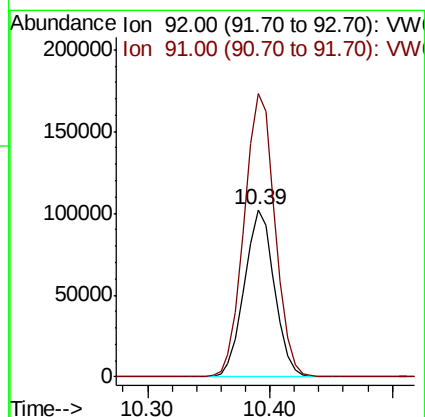
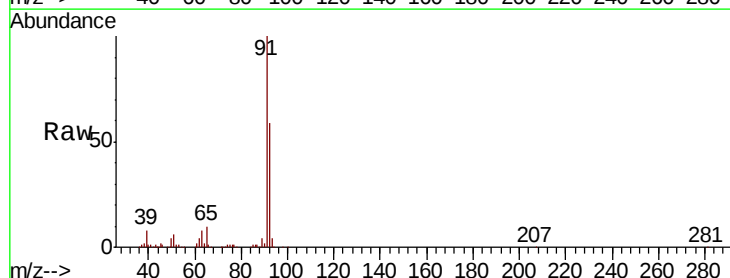
Acq: 13 Nov 2018 13:05

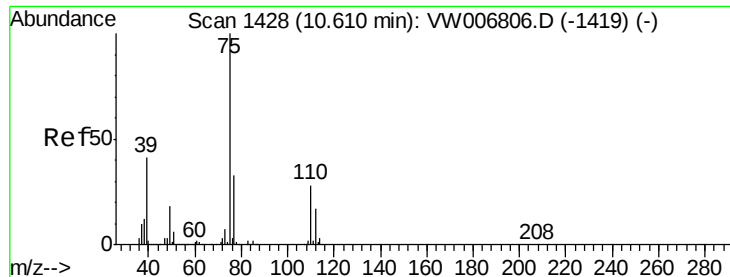
Tgt Ion: 92 Resp: 174496

Ion Ratio Lower Upper

92 100

91 173.3 139.4 209.2





#53

t-1,3-Dichloropropene

Concen: 20.174 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

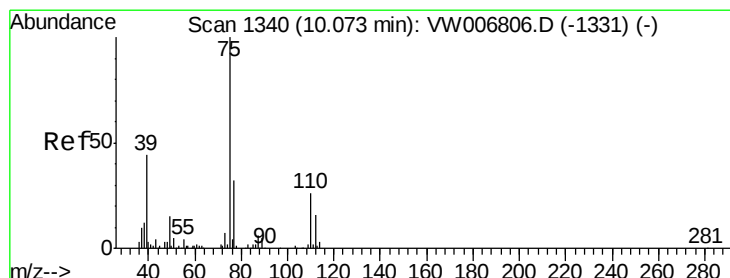
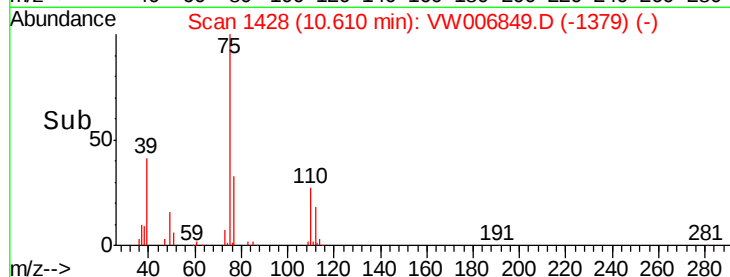
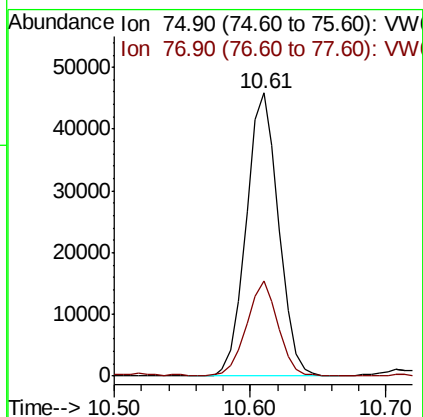
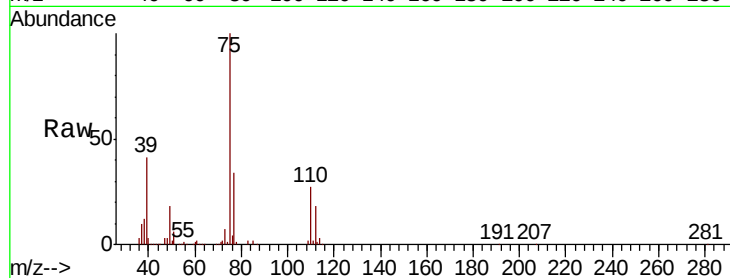
ClientSampled :

Tot Ion: 75 Resp: 76475

Ion Ratio Lower Upper

75 100

77 33.5 26.3 39.5



#54

cis-1,3-Dichloropropene

Concen: 20.953 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

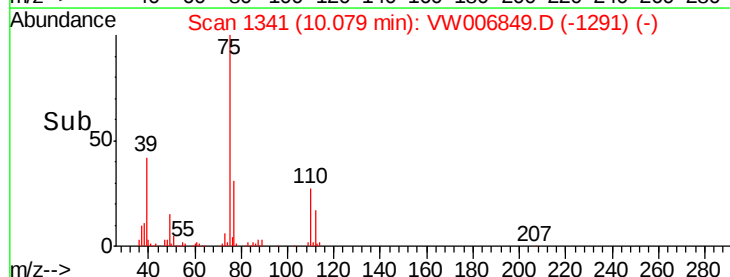
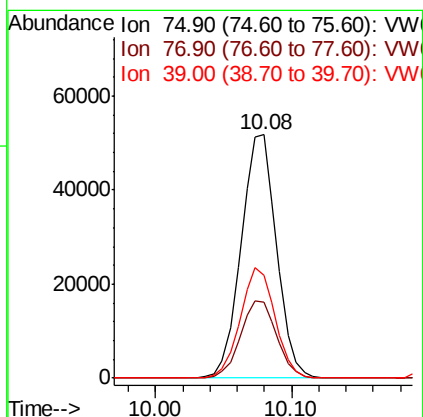
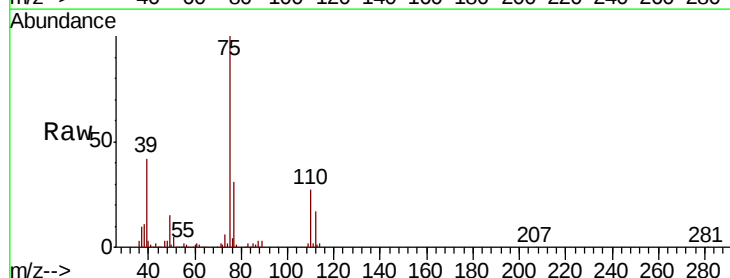
Tgt Ion: 75 Resp: 94187

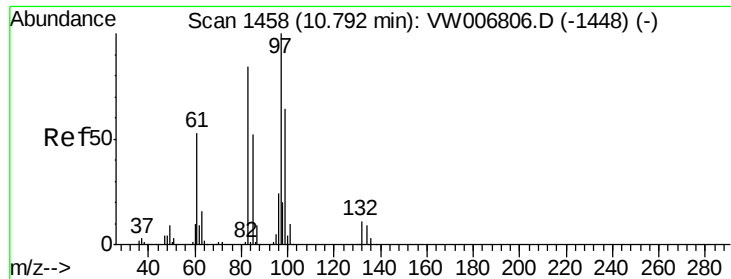
Ion Ratio Lower Upper

75 100

77 31.1 25.2 37.8

39 42.1 35.3 52.9

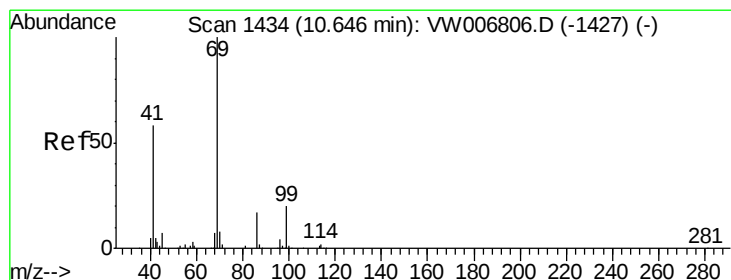
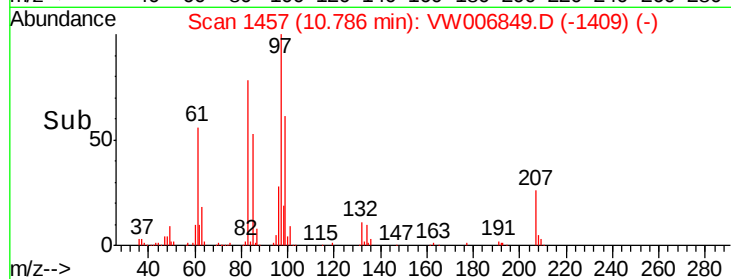
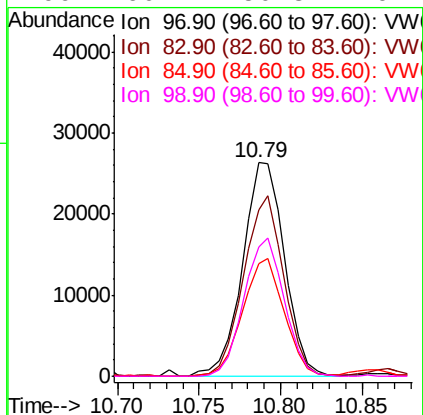
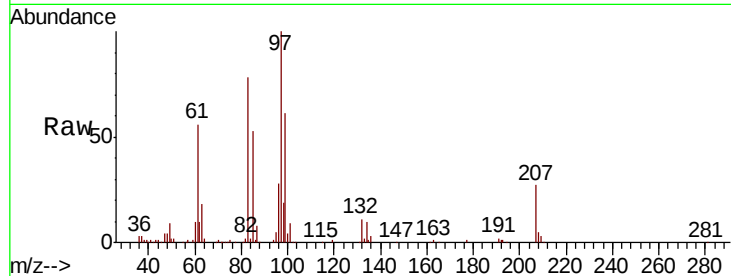




#55  
 1,1,2-Trichloroethane  
 Concen: 20.459 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

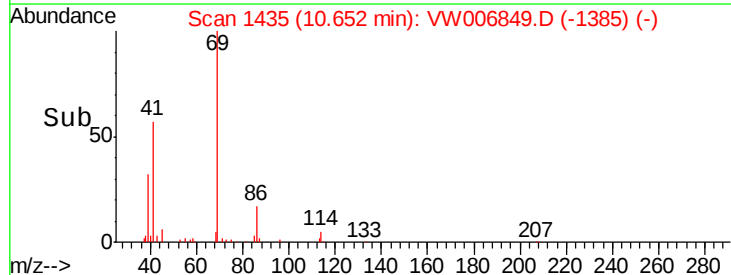
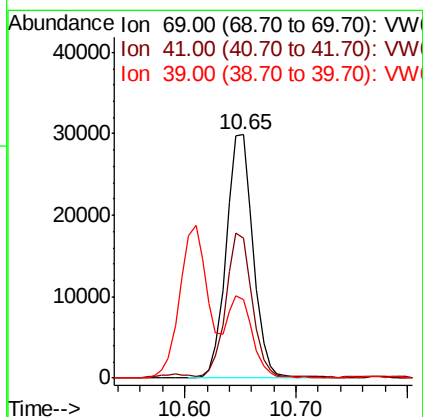
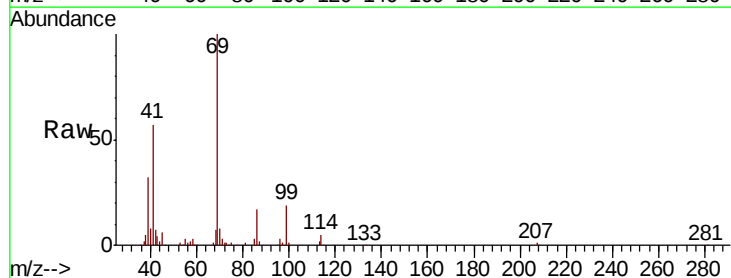
Instrument :  
 MSVOA\_W  
 ClientSampleId :

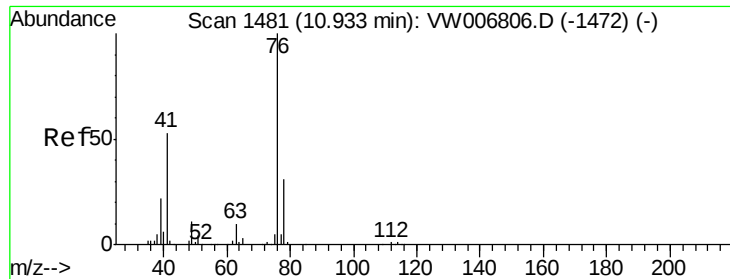
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 47131 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 78.0  | 67.0  | 100.4 |
| 85       | 52.5  | 41.7  | 62.5  |
| 99       | 60.7  | 50.8  | 76.2  |



#56  
 Ethyl methacrylate  
 Concen: 19.821 ug/l  
 RT: 10.65 min Scan# 1435  
 Delta R.T. 0.01 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 50043 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 58.9  | 47.0  | 70.4  |
| 39       | 30.1  | 23.1  | 34.7  |

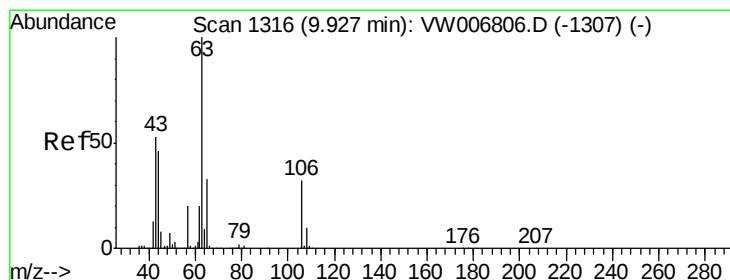
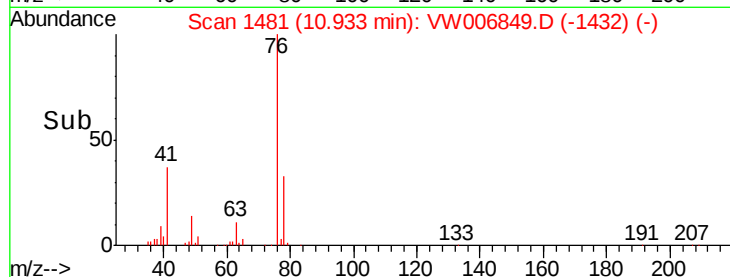
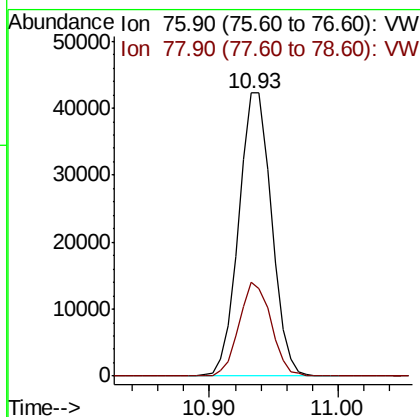
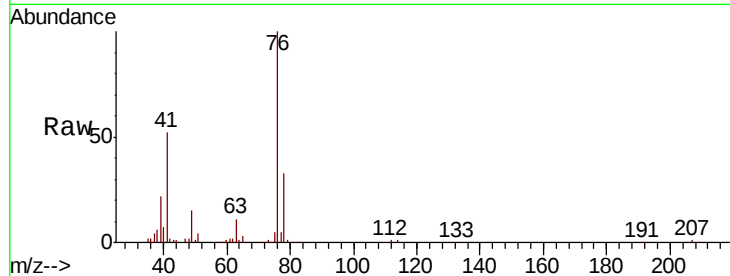




#57  
 1,3-Dichloropropane  
 Concen: 20.442 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

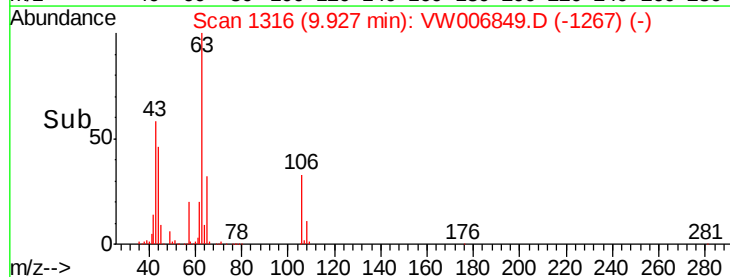
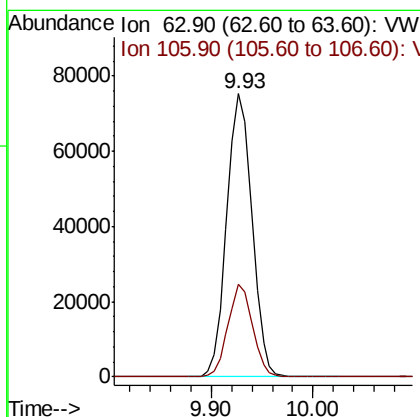
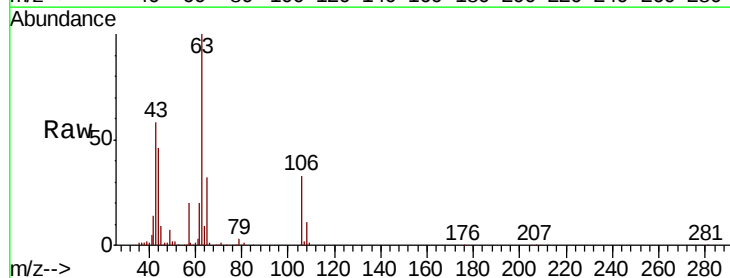
Instrument :  
 MSVOA\_W  
 ClientSampleId :

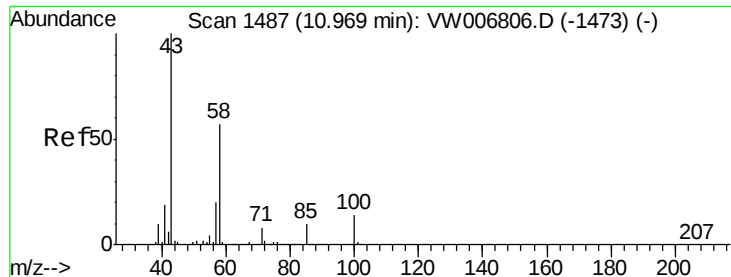
Tot Ion: 76 Resp: 74579  
 Ion Ratio Lower Upper  
 76 100  
 78 32.4 26.2 39.2



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 102.136 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion: 63 Resp: 129147  
 Ion Ratio Lower Upper  
 63 100  
 106 31.8 25.4 38.0

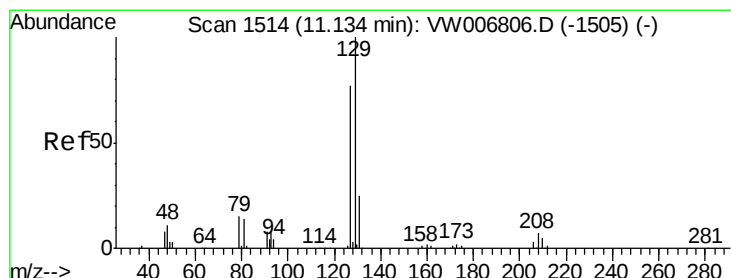
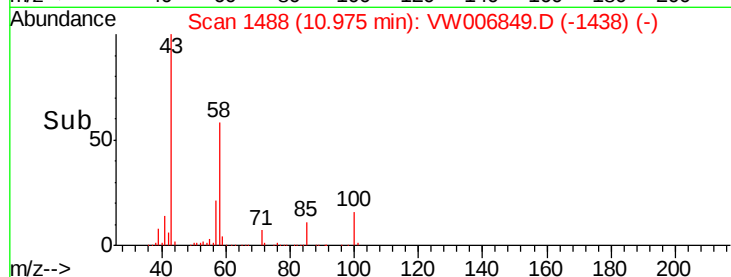
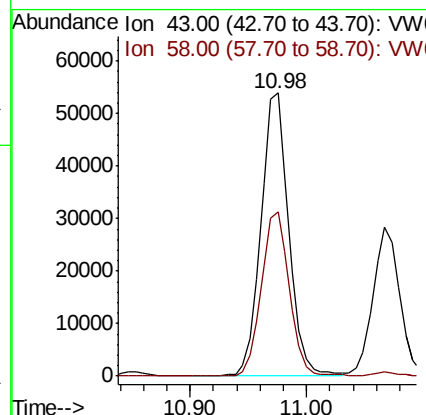
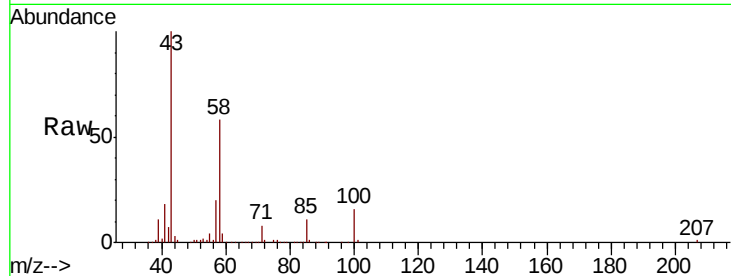




#59  
2-Hexanone  
Concen: 94.984 ug/l  
RT: 10.98 min Scan# 1488  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

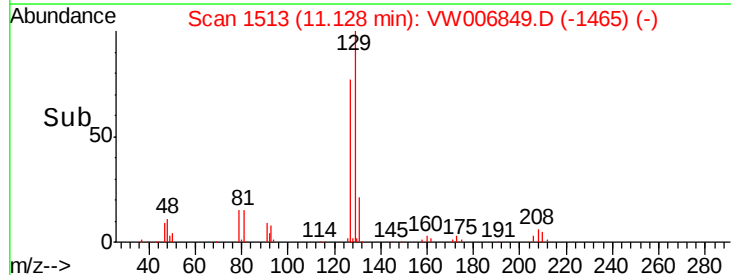
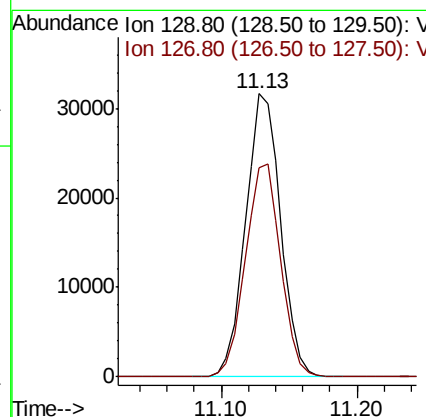
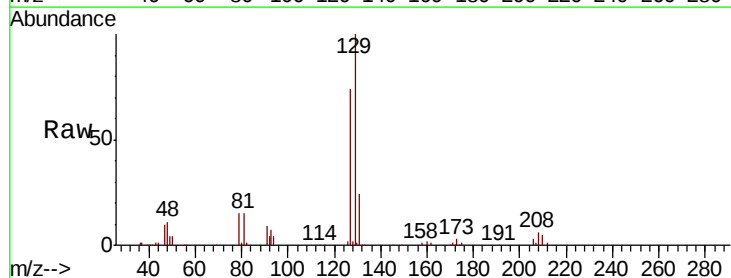
Instrument :  
MSVOA\_W  
ClientSampled :

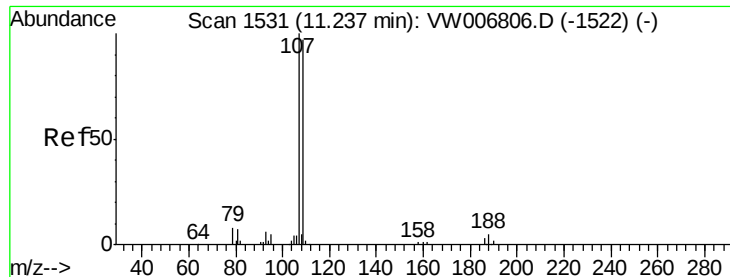
Tot Ion: 43 Resp: 89907  
Ion Ratio Lower Upper  
43 100  
58 58.6 28.7 86.1



#60  
Dibromochloromethane  
Concen: 20.190 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 129 Resp: 56912  
Ion Ratio Lower Upper  
129 100  
127 75.6 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.669 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

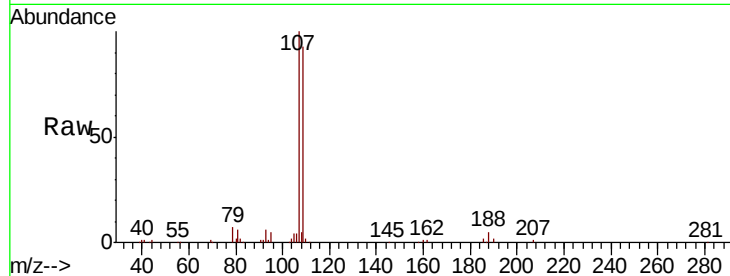
ClientSampled :

Tot Ion:107 Resp: 45222

Ion Ratio Lower Upper

107 100

109 94.7 76.7 115.1



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

25000

20000

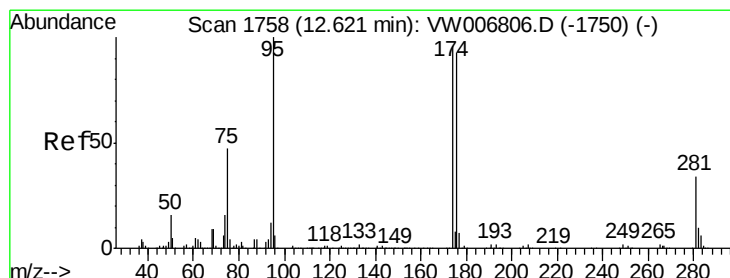
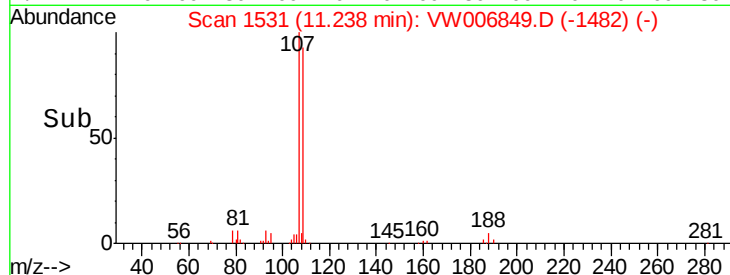
15000

10000

5000

0

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 46.800 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

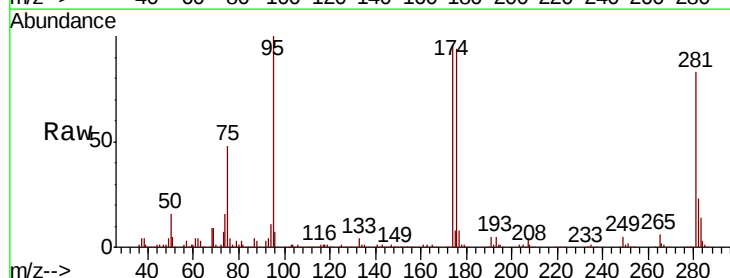
Tgt Ion: 95 Resp: 195639

Ion Ratio Lower Upper

95 100

174 98.1 0.0 196.6

176 95.4 0.0 191.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

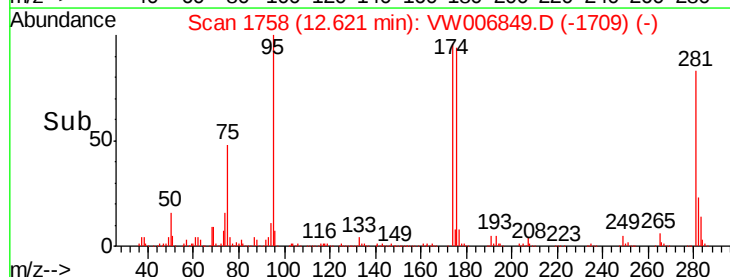
150000

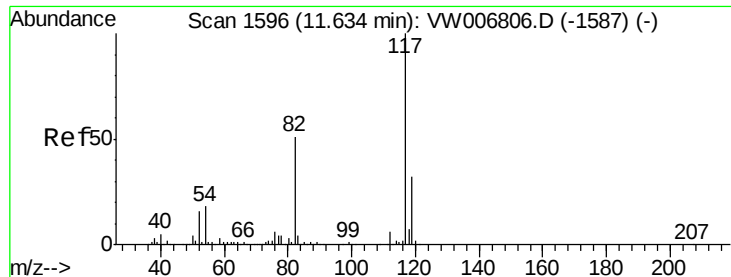
100000

50000

0

Time--> 12.50 12.60 12.70

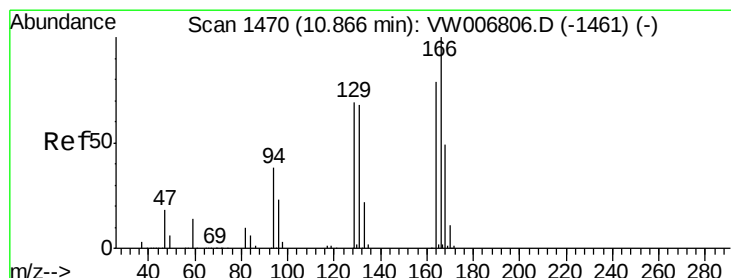
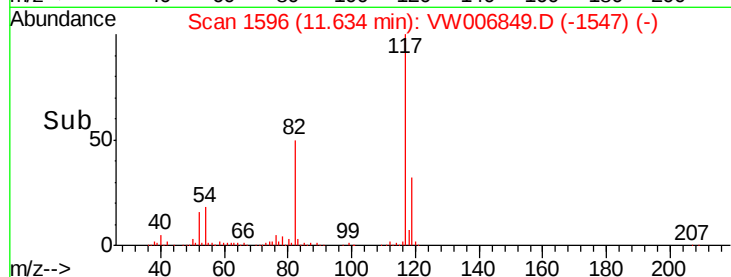
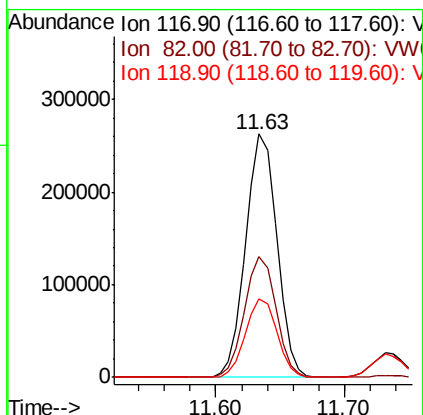
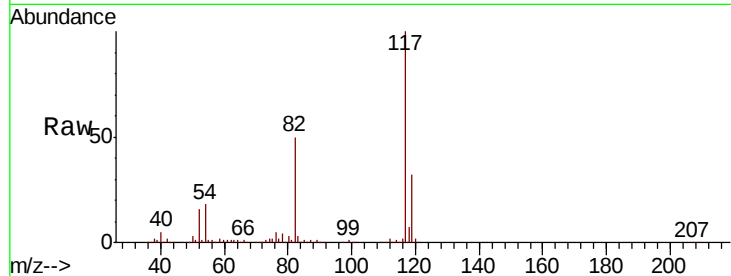




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

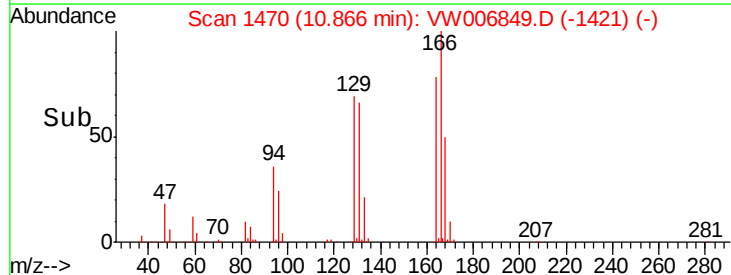
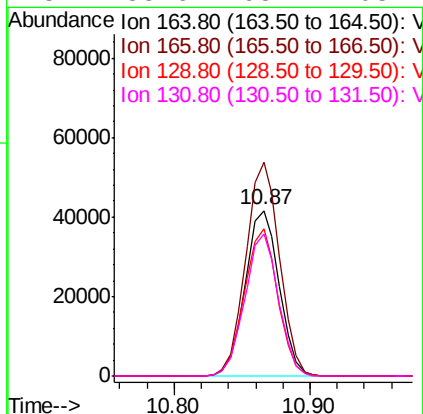
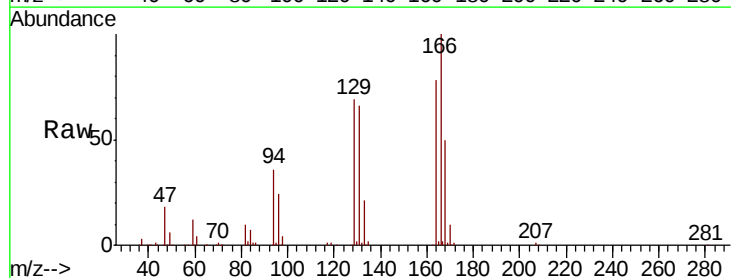
Instrument :  
MSVOA\_W  
ClientSampleId :

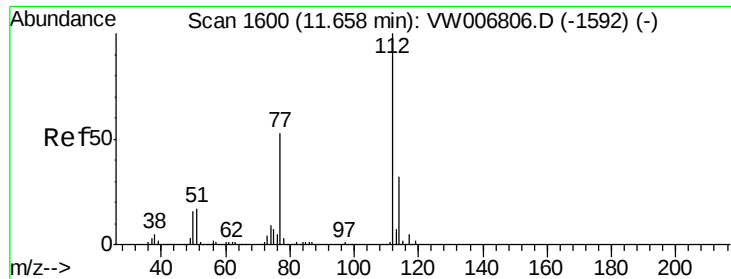
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.7  | 40.6  | 61.0  |
| 119     | 32.3  | 25.5  | 38.3  |



#64  
Tetrachloroethene  
Concen: 20.628 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 128.9 | 101.3 | 151.9 |
| 129     | 89.1  | 69.6  | 104.4 |
| 131     | 85.6  | 68.7  | 103.1 |

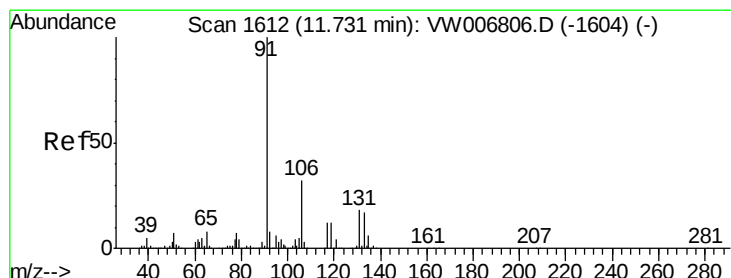
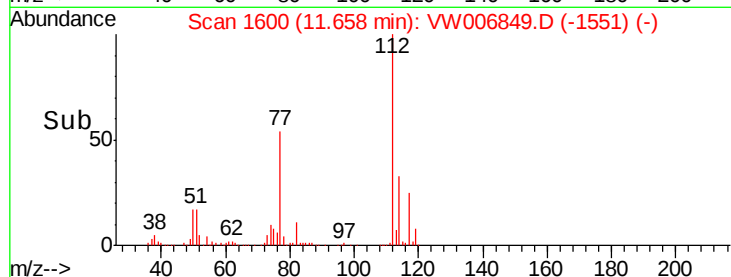
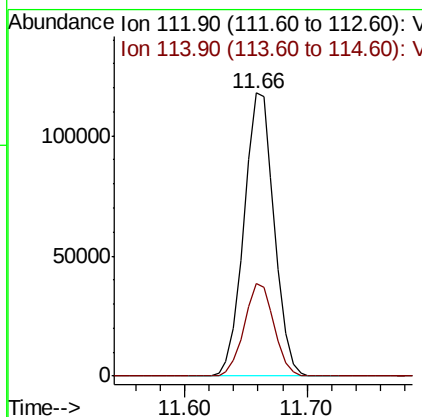
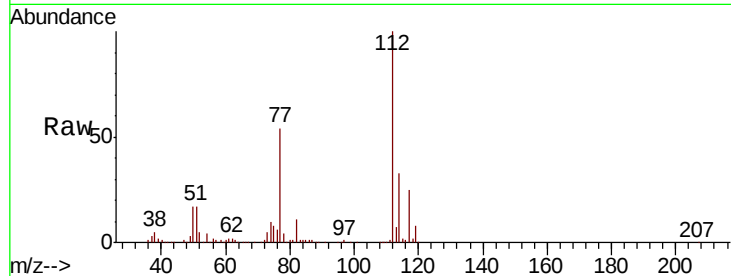




#65  
Chlorobenzene  
Concen: 20.692 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

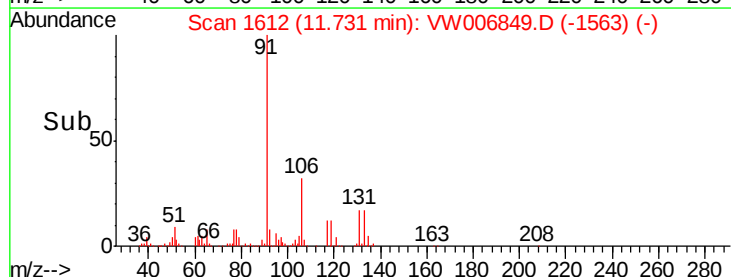
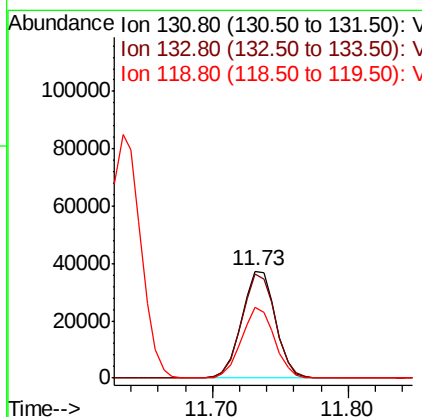
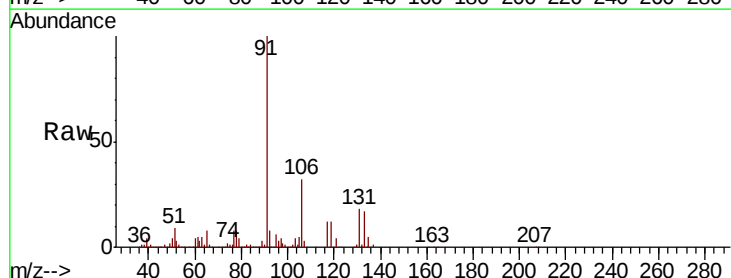
Instrument :  
MSVOA\_W  
ClientSampleId :

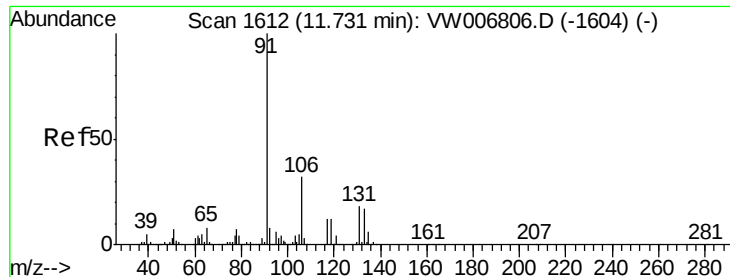
Tot Ion:112 Resp: 202059  
Ion Ratio Lower Upper  
112 100  
114 32.7 26.0 39.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.402 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion:131 Resp: 64648  
Ion Ratio Lower Upper  
131 100  
133 97.1 47.9 143.8  
119 64.7 32.4 97.2

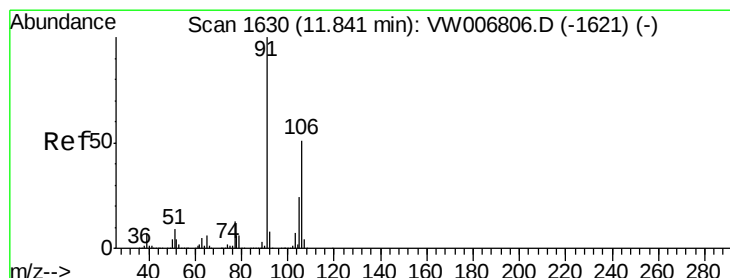
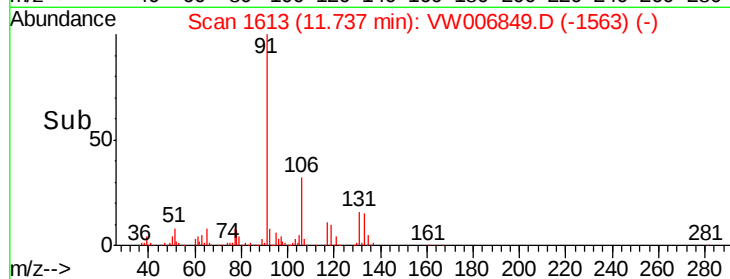
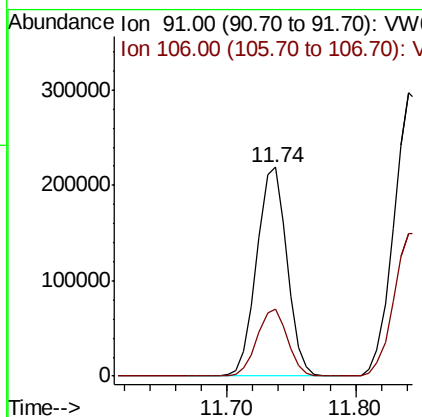
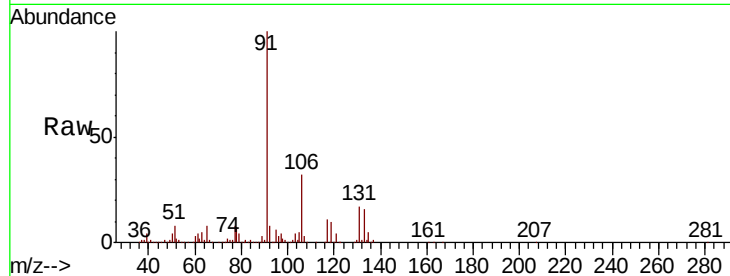




#67  
Ethyl Benzene  
Concen: 21.313 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

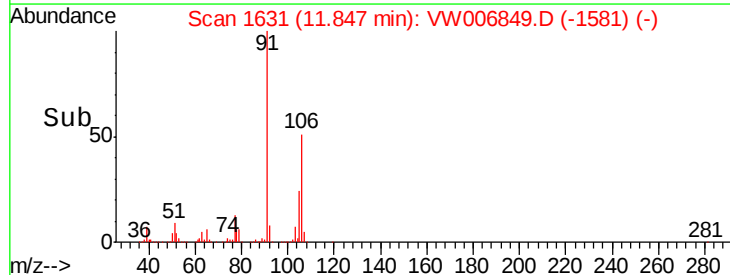
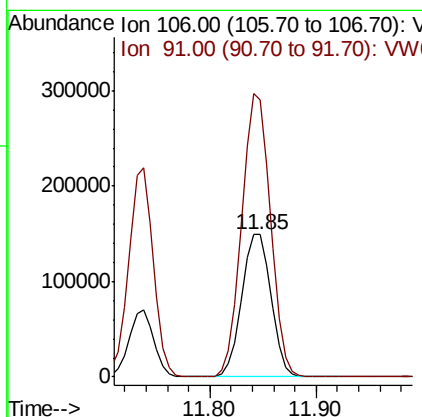
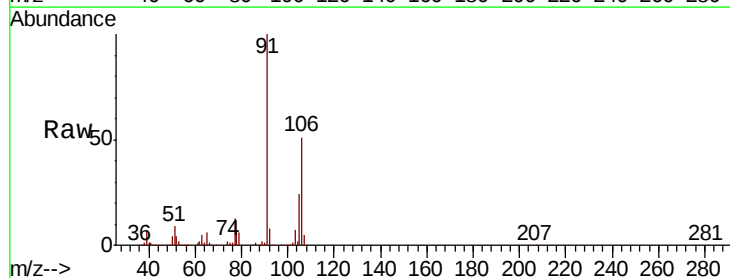
Instrument :  
MSVOA\_W  
ClientSampled :

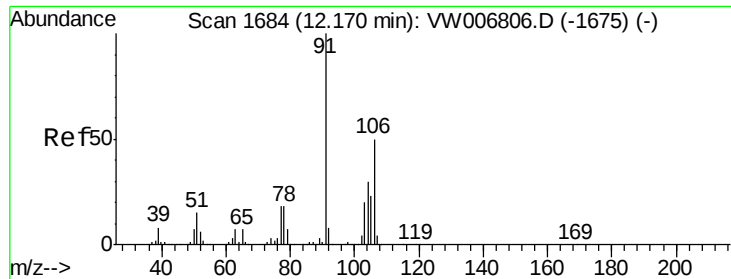
Tot Ion: 91 Resp: 354801  
Ion Ratio Lower Upper  
91 100  
106 31.9 25.4 38.0



#68  
m/p-Xylenes  
Concen: 42.449 ug/l  
RT: 11.85 min Scan# 1631  
Delta R.T. 0.01 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 106 Resp: 289135  
Ion Ratio Lower Upper  
106 100  
91 195.4 155.7 233.5

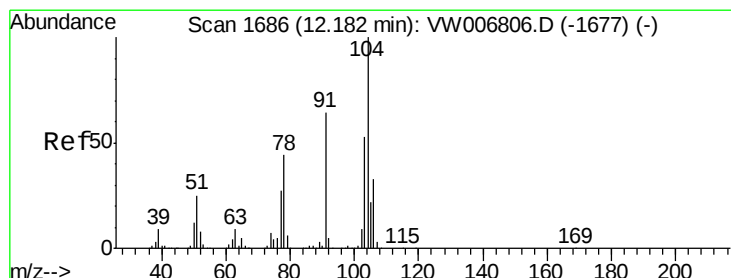
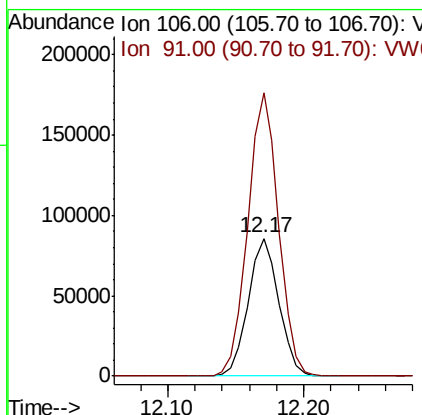
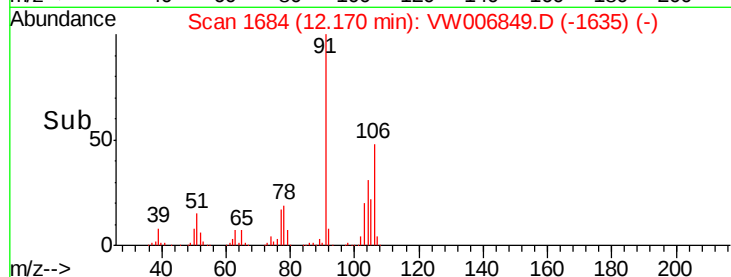
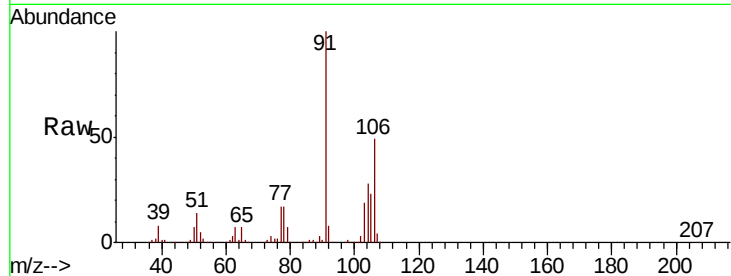




#69  
o-Xylene  
Concen: 21.259 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

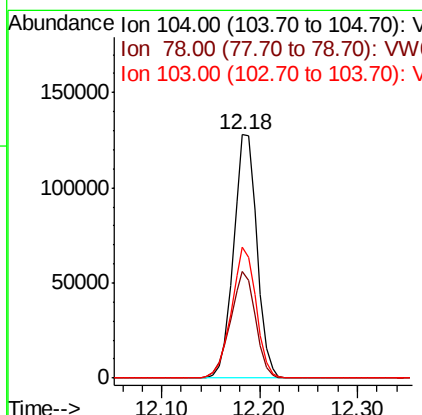
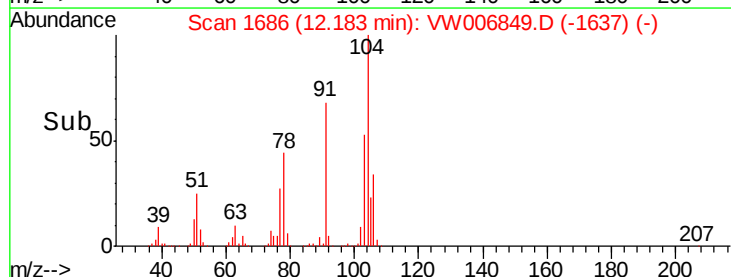
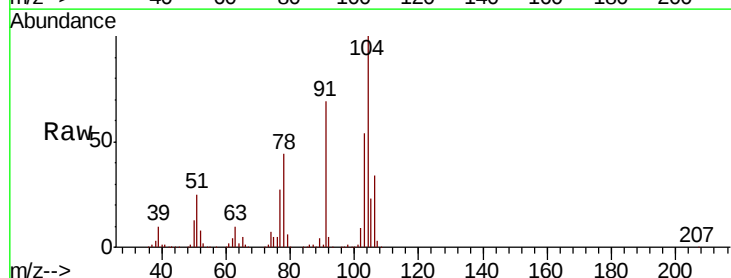
Instrument :  
MSVOA\_W  
ClientSampled :

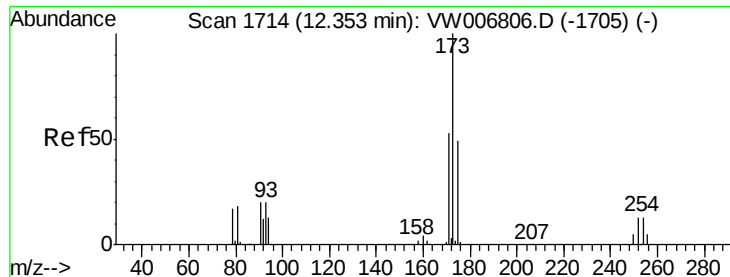
Tot Ion:106 Resp: 134765  
Ion Ratio Lower Upper  
106 100  
91 206.2 101.9 305.7



#70  
Styrene  
Concen: 20.932 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion:104 Resp: 212384  
Ion Ratio Lower Upper  
104 100  
78 46.9 37.3 55.9  
103 56.2 44.6 66.8





#71

Bromoform

Concen: 19.110 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

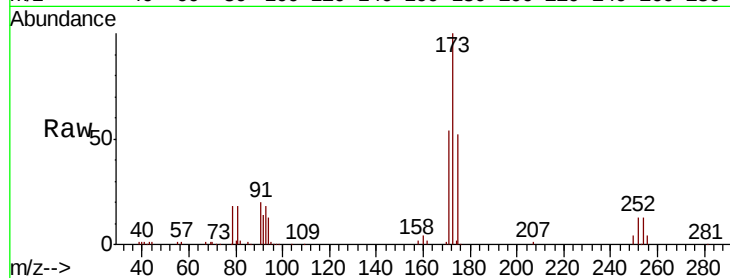
Tot Ion:173 Resp: 33046

Ion Ratio Lower Upper

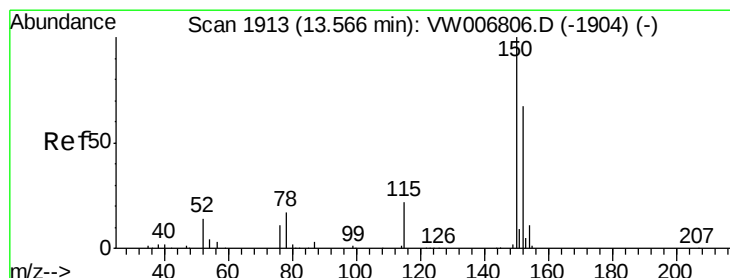
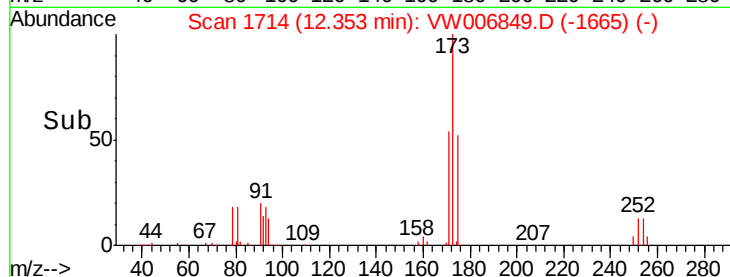
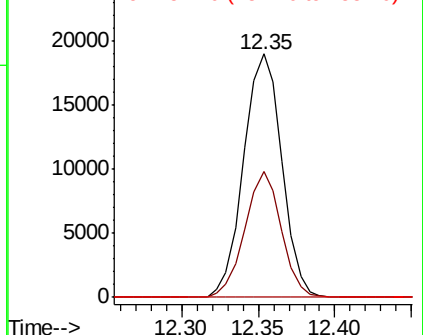
173 100

175 49.3 24.4 73.4

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

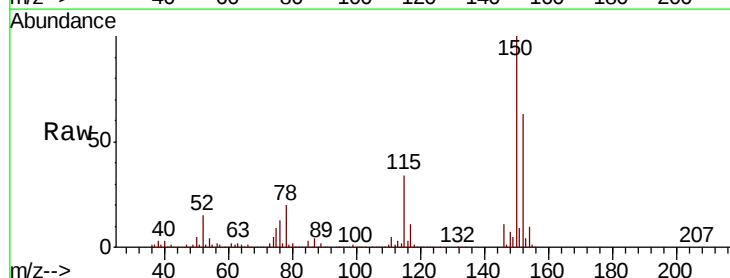
Tgt Ion:152 Resp: 251223

Ion Ratio Lower Upper

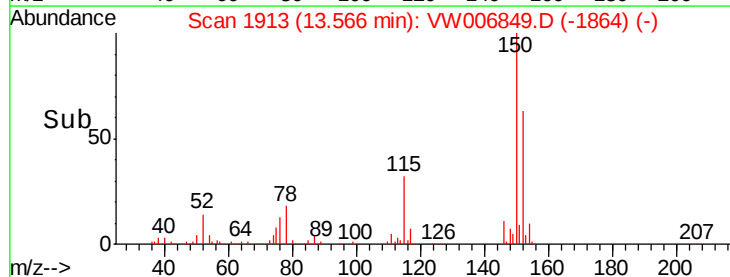
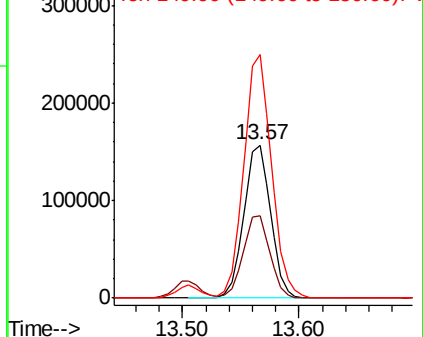
152 100

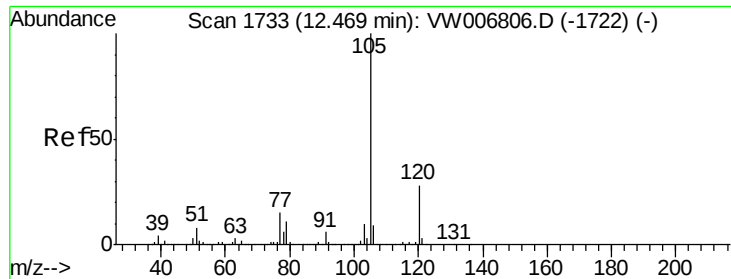
115 53.9 27.3 81.8

150 165.3 0.0 353.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.359 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

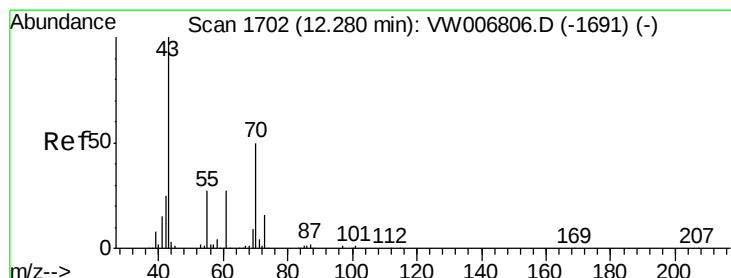
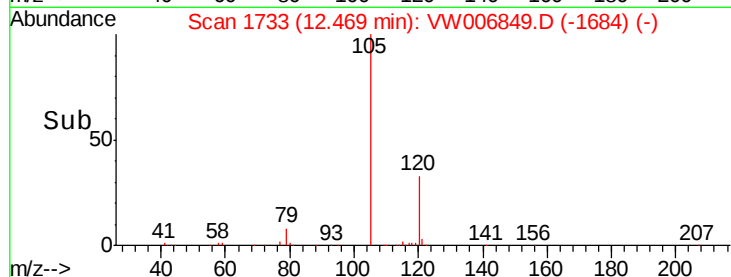
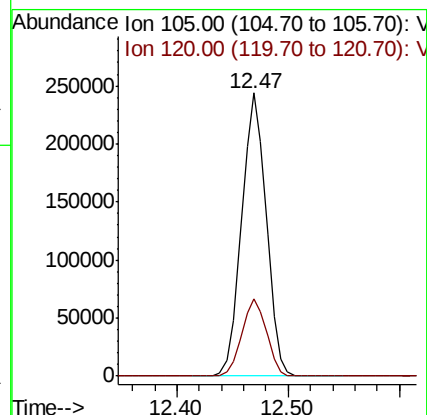
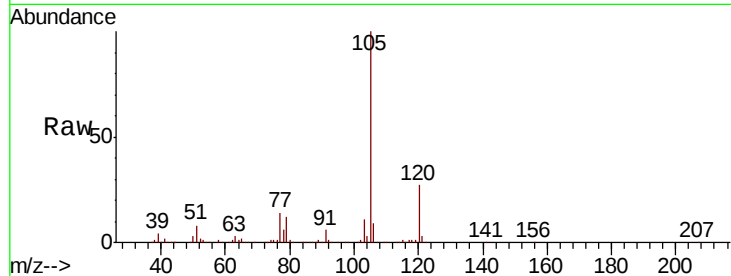
ClientSampled :

Tot Ion:105 Resp: 372457

Ion Ratio Lower Upper

105 100

120 27.4 14.0 42.0



#74

N-ethyl acetate

Concen: 19.750 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Tgt Ion: 43 Resp: 52076

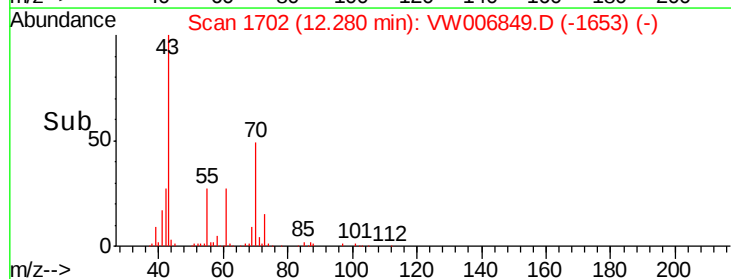
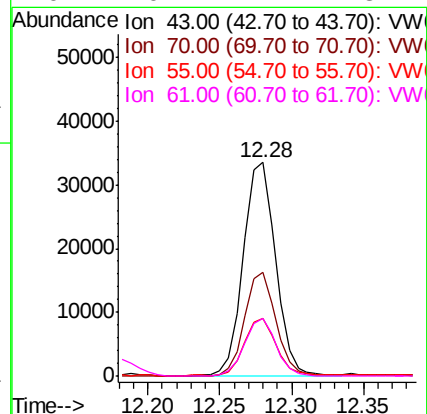
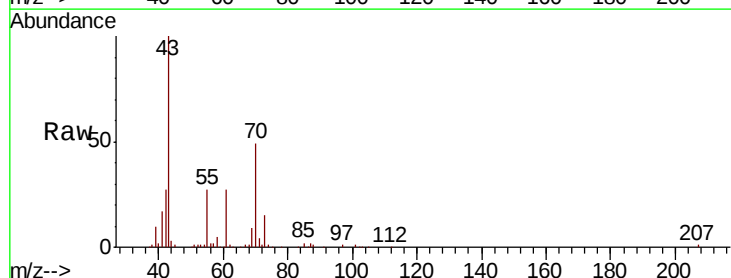
Ion Ratio Lower Upper

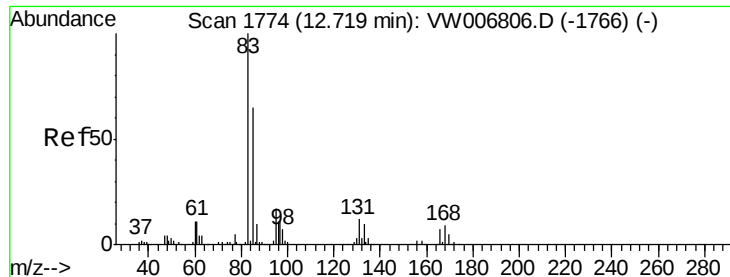
43 100

70 47.7 39.0 58.4

55 26.6 22.1 33.1

61 26.1 21.1 31.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.142 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

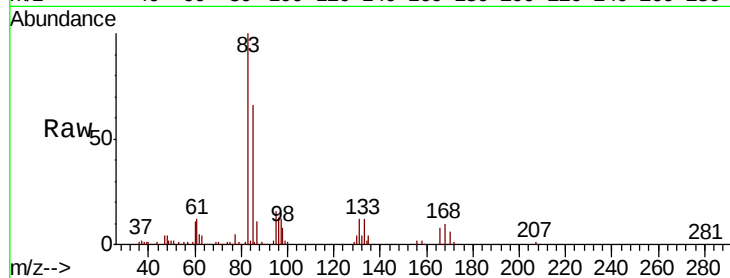
Tot Ion: 83 Resp: 46177

Ion Ratio Lower Upper

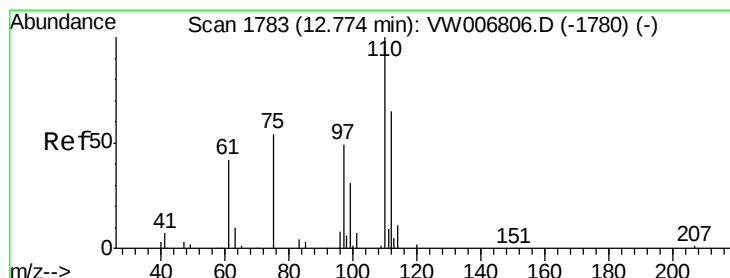
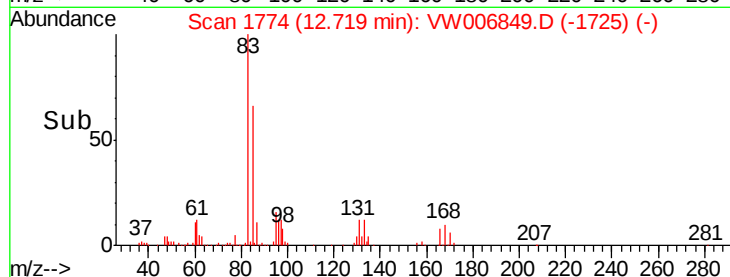
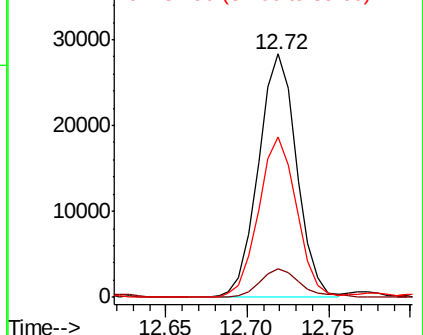
83 100

131 12.5 6.1 18.3

85 65.5 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 130.80 (130.50 to 131.50): V  
Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 34.003 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW006849.D

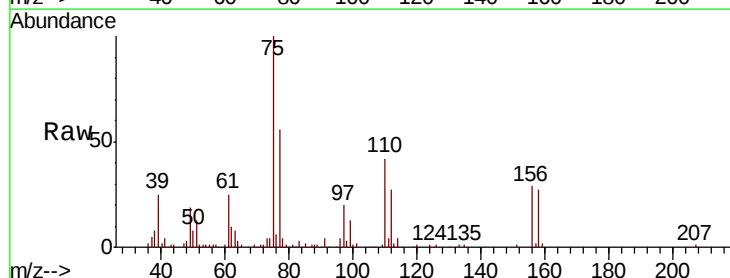
Acq: 13 Nov 2018 13:05

Tgt Ion: 75 Resp: 61561

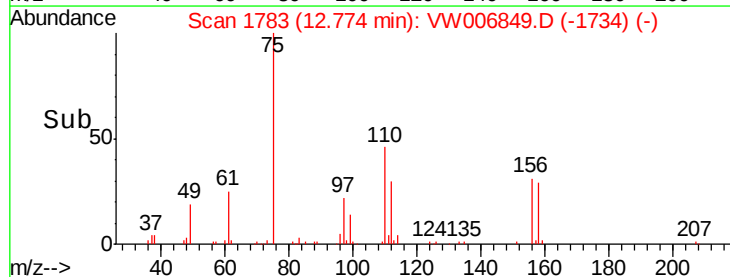
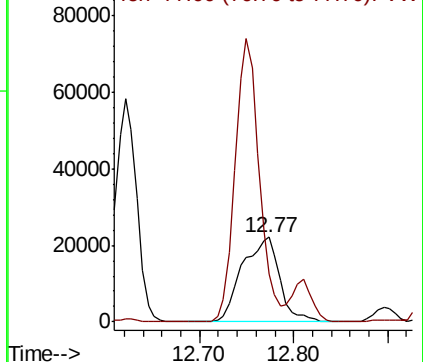
Ion Ratio Lower Upper

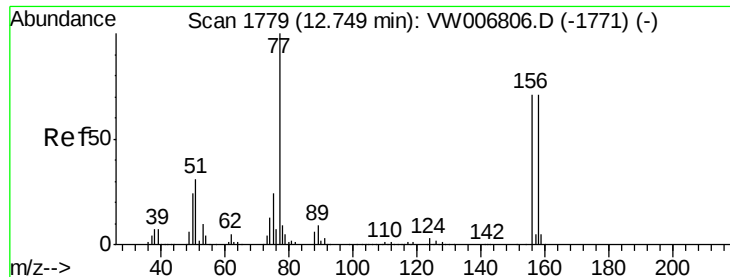
75 100

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

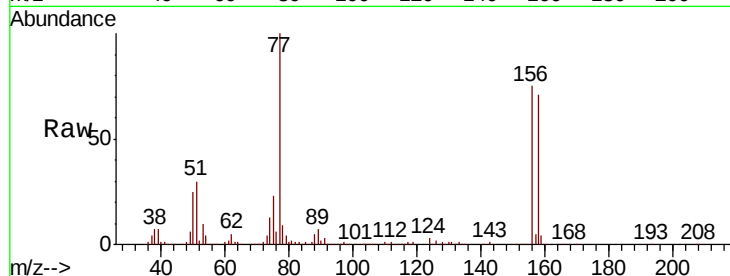




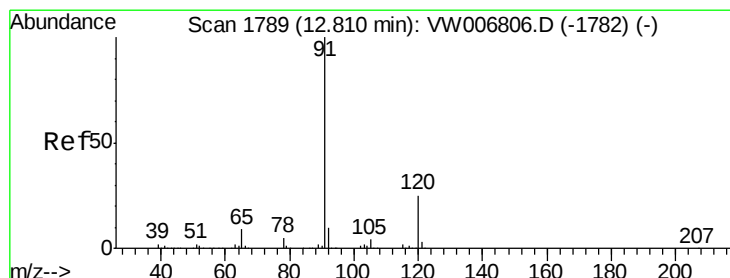
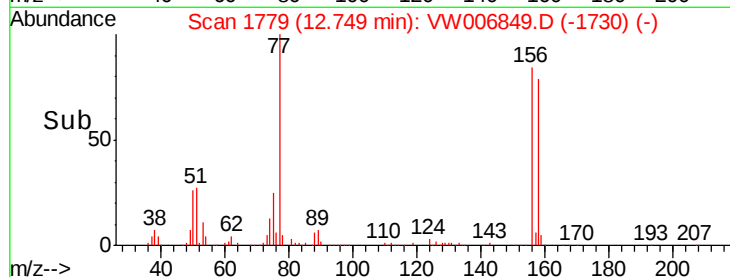
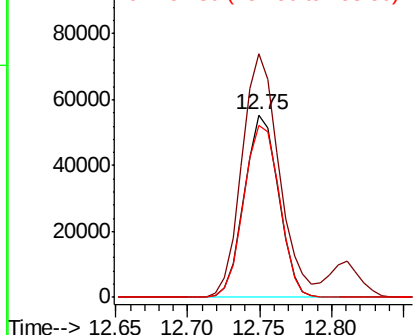
#77  
Bromobenzene  
Concen: 20.742 ug/l  
RT: 12.75 min Scan# 1779  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:156 Resp: 91191  
Ion Ratio Lower Upper  
156 100  
77 144.6 75.3 225.7  
158 97.9 49.2 147.6

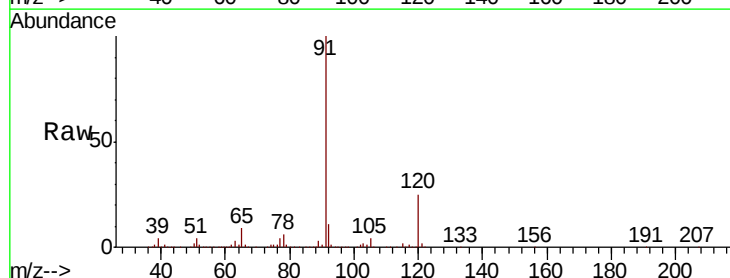


Abundance Ion 155.80 (155.50 to 156.50): V  
Ion 77.00 (76.70 to 77.70): VW  
Ion 157.80 (157.50 to 158.50): V

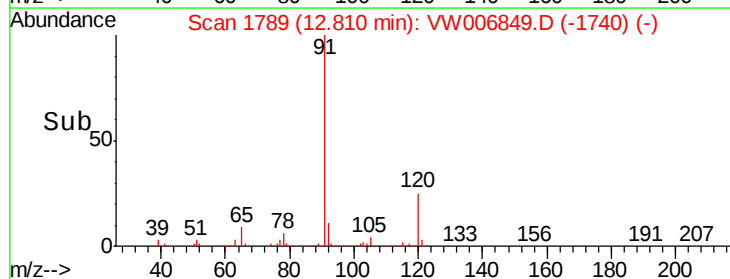
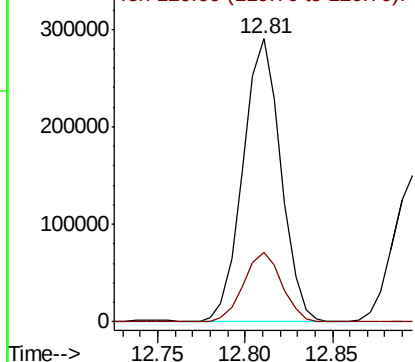


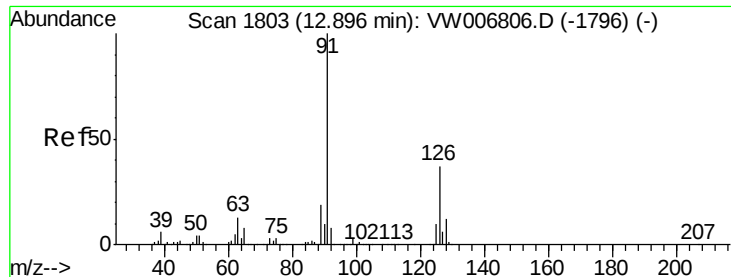
#78  
n-propylbenzene  
Concen: 21.234 ug/l  
RT: 12.81 min Scan# 1789  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 91 Resp: 437020  
Ion Ratio Lower Upper  
91 100  
120 24.9 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.178 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

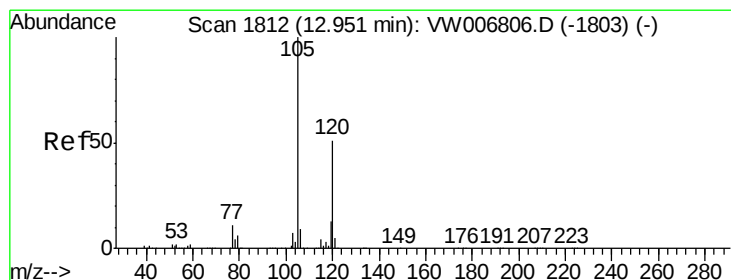
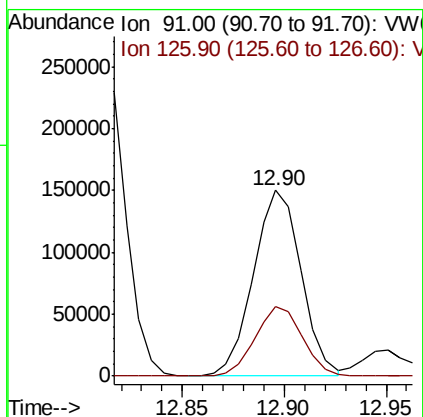
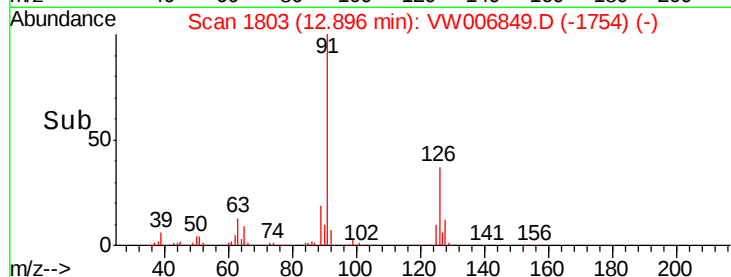
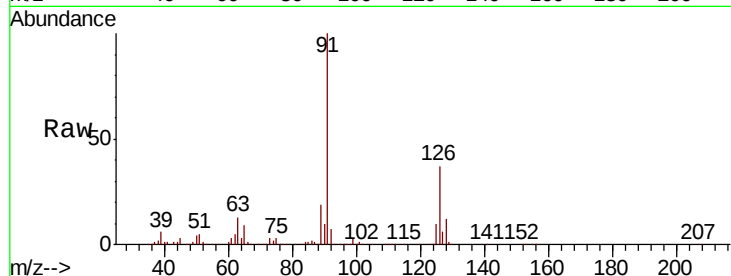
ClientSampleId :

Tot Ion: 91 Resp: 244541

Ion Ratio Lower Upper

91 100

126 37.3 18.5 55.5



#80

1,3,5-Trimethylbenzene

Concen: 21.441 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW006849.D

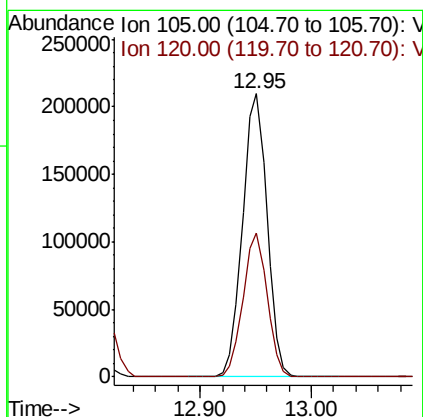
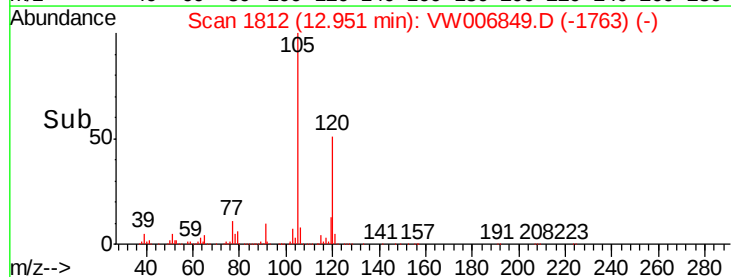
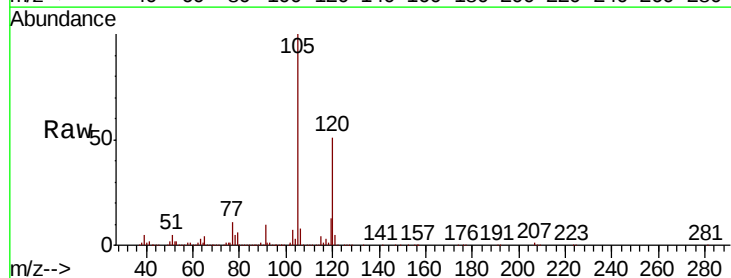
Acq: 13 Nov 2018 13:05

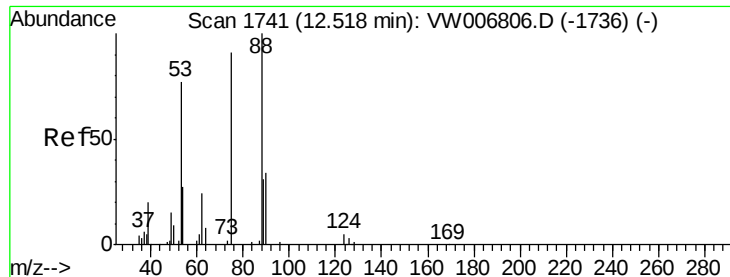
Tgt Ion: 105 Resp: 321421

Ion Ratio Lower Upper

105 100

120 50.4 25.3 75.9

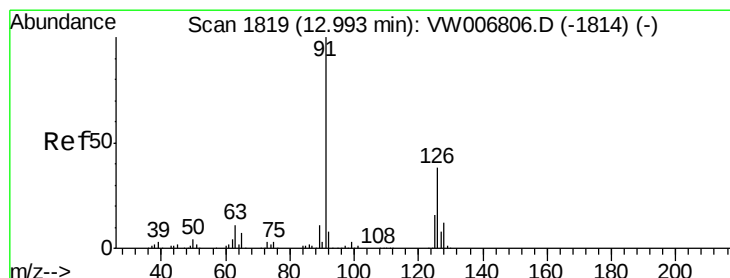
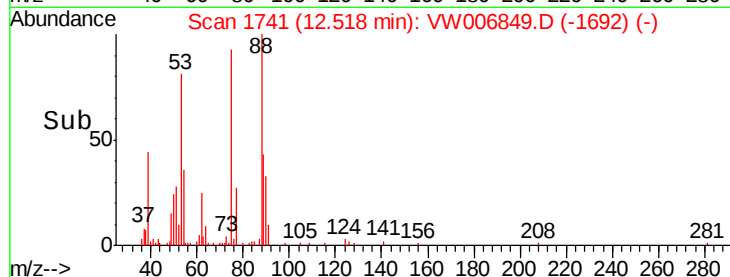
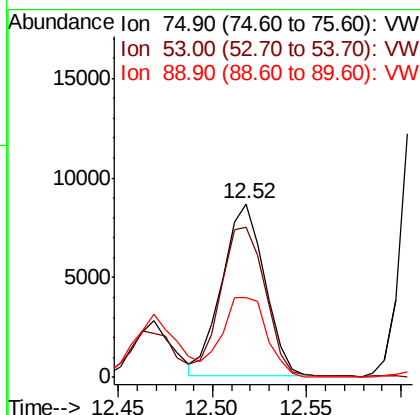
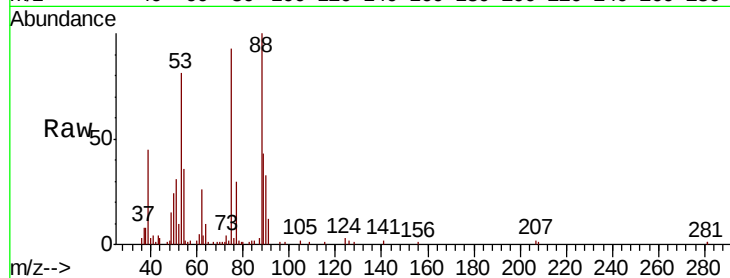




#81  
trans-1,4-Dichloro-2-butene  
Concen: 18.664 ug/l  
RT: 12.52 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

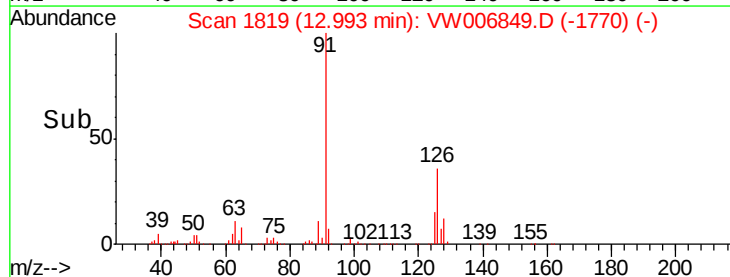
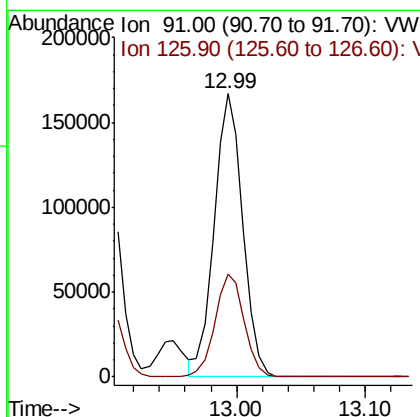
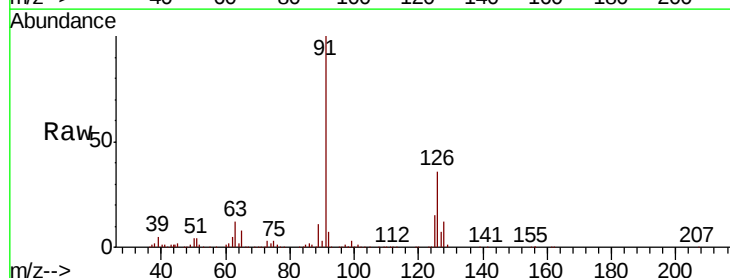
Instrument :  
MSVOA\_W  
ClientSampleId :

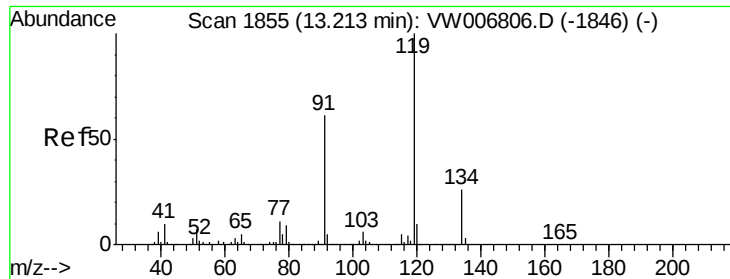
Tot Ion: 75 Resp: 13661  
Ion Ratio Lower Upper  
75 100  
53 92.4 72.9 109.3  
89 48.3 38.7 58.1



#82  
4-Chlorotoluene  
Concen: 21.057 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion: 91 Resp: 259429  
Ion Ratio Lower Upper  
91 100  
126 37.0 18.4 55.2

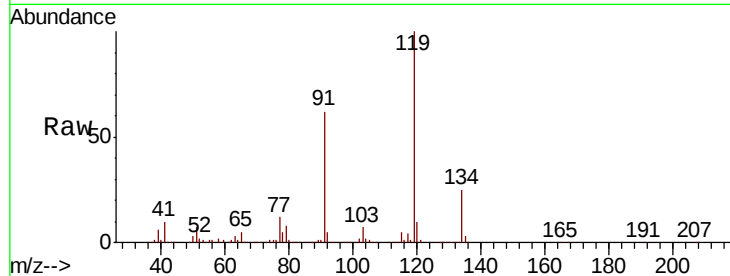




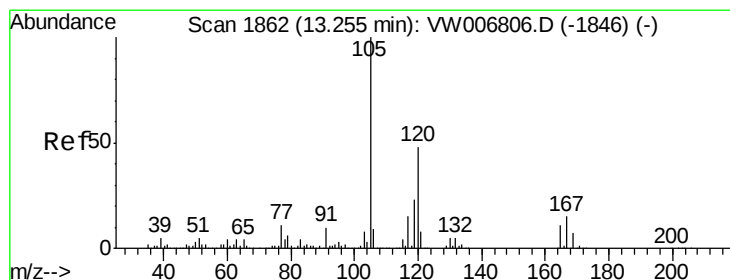
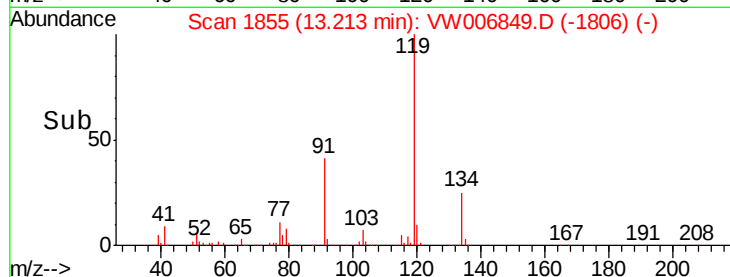
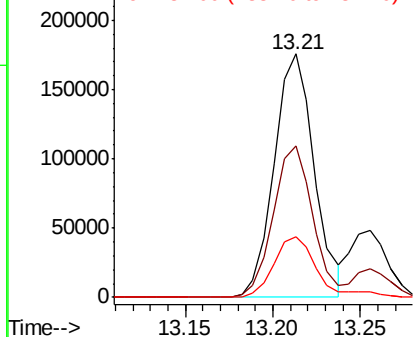
#83  
tert-Butylbenzene  
Concen: 21.220 ug/l  
RT: 13.21 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:119 Resp: 281187  
Ion Ratio Lower Upper  
119 100  
91 60.9 30.0 90.1  
134 27.1 13.4 40.2

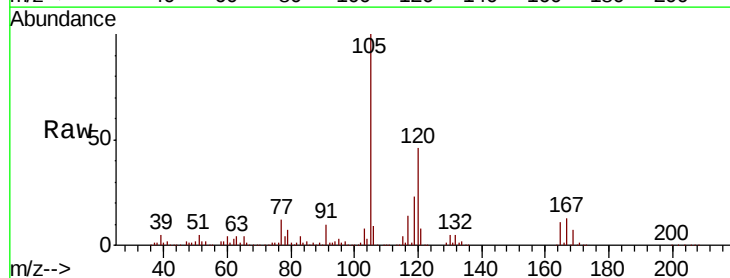


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

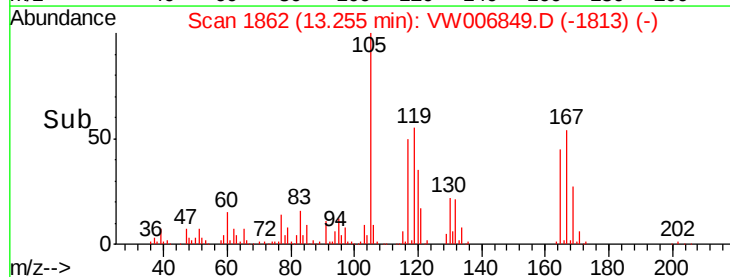
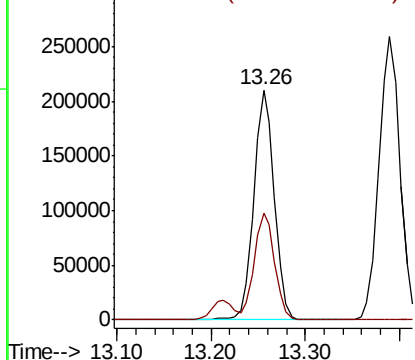


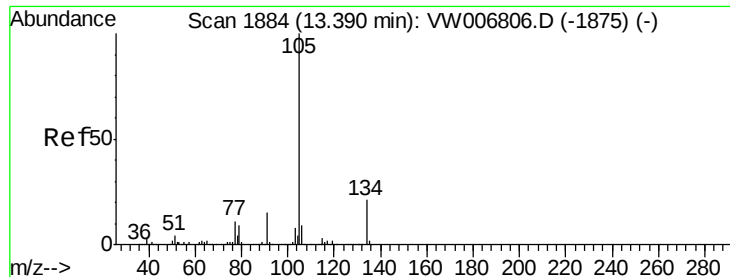
#84  
1,2,4-Trimethylbenzene  
Concen: 21.066 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion:105 Resp: 321383  
Ion Ratio Lower Upper  
105 100  
120 46.3 23.4 70.0



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





#85

sec-Butylbenzene

Concen: 21.220 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

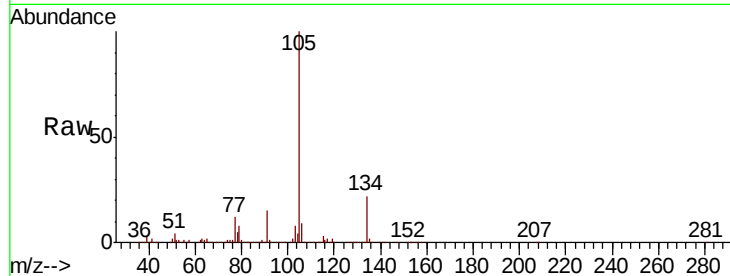
ClientSampled :

Tot Ion:105 Resp: 398453

Ion Ratio Lower Upper

105 100

134 21.4 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

250000

200000

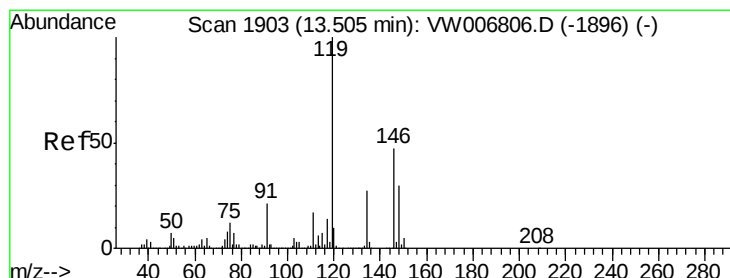
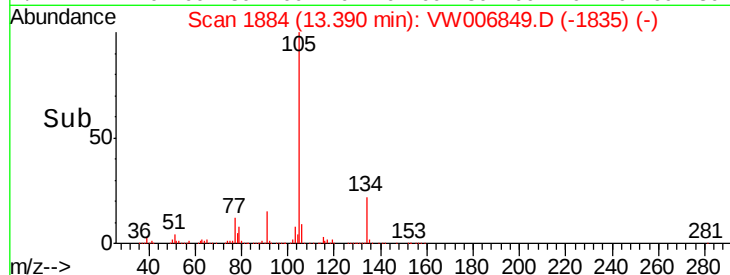
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.289 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

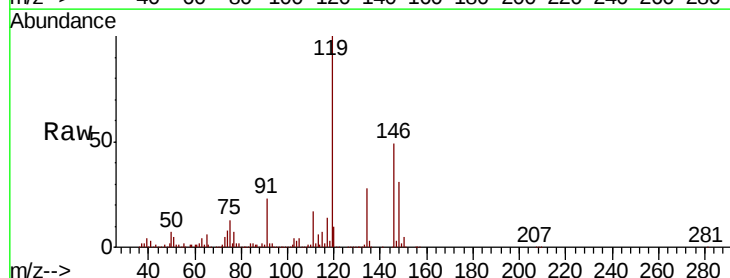
Tgt Ion:119 Resp: 363606

Ion Ratio Lower Upper

119 100

134 27.6 13.5 40.4

91 22.1 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.51

250000

200000

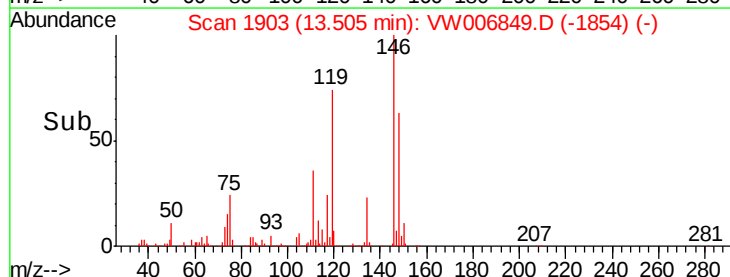
150000

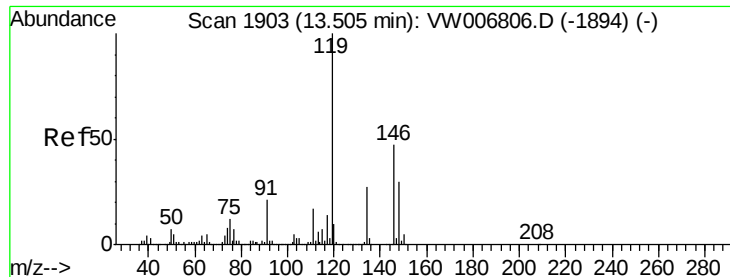
100000

50000

0

Time-->

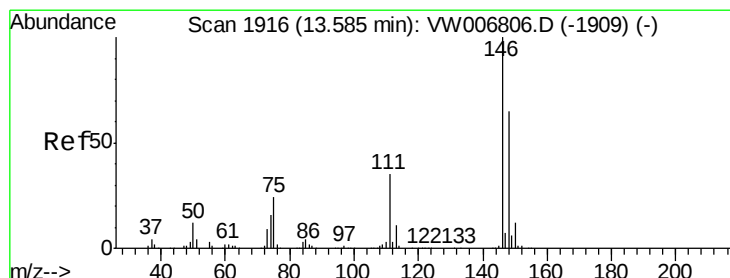
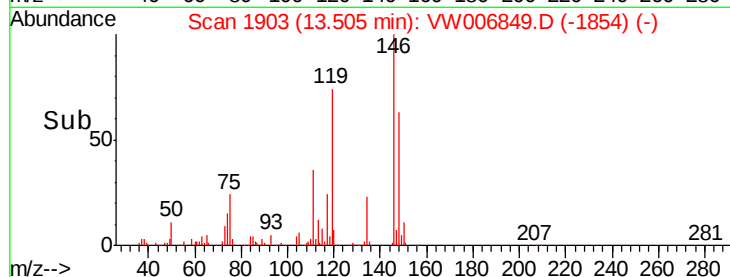
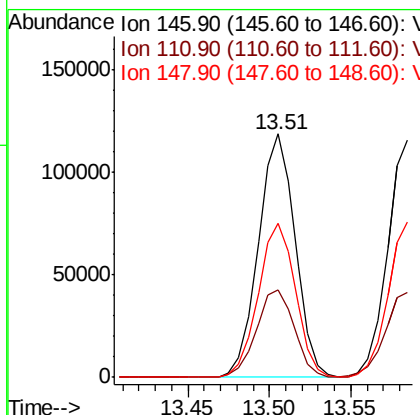
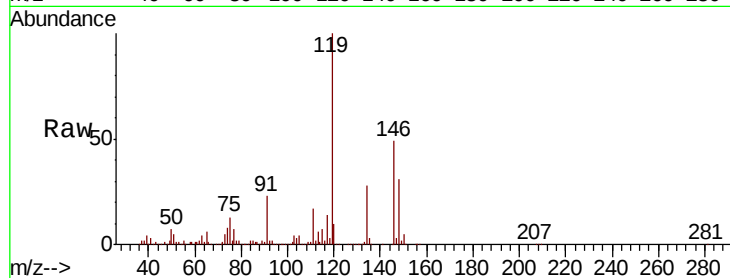




#87  
 1,3-Dichlorobenzene  
 Concen: 20.809 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

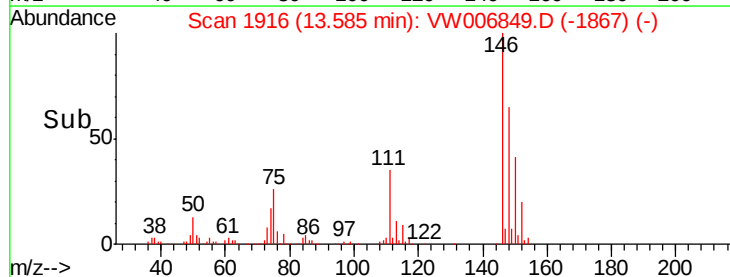
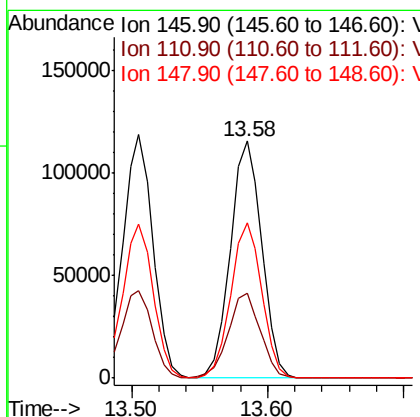
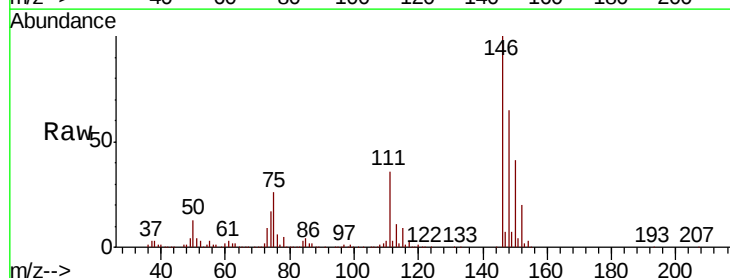
Instrument :  
 MSVOA\_W  
 ClientSampleId :

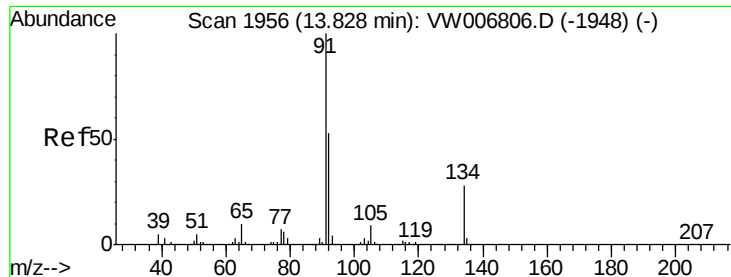
Tot Ion:146 Resp: 186462  
 Ion Ratio Lower Upper  
 146 100  
 111 36.8 18.3 54.9  
 148 63.8 31.9 95.9



#88  
 1,4-Dichlorobenzene  
 Concen: 20.887 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion:146 Resp: 185170  
 Ion Ratio Lower Upper  
 146 100  
 111 36.8 17.8 53.3  
 148 64.5 32.0 96.0





#89

n-Butylbenzene

Concen: 21.030 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

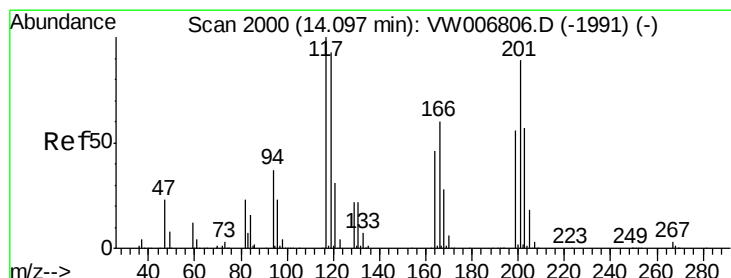
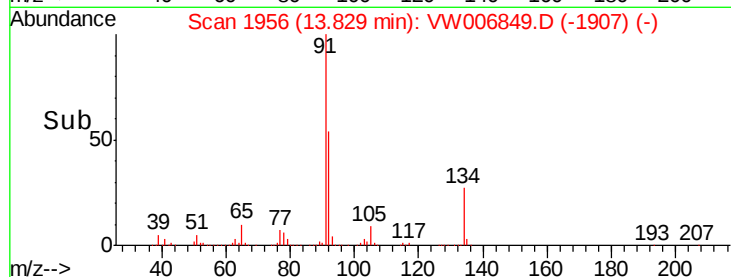
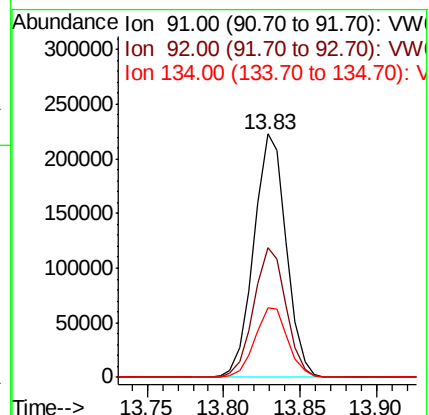
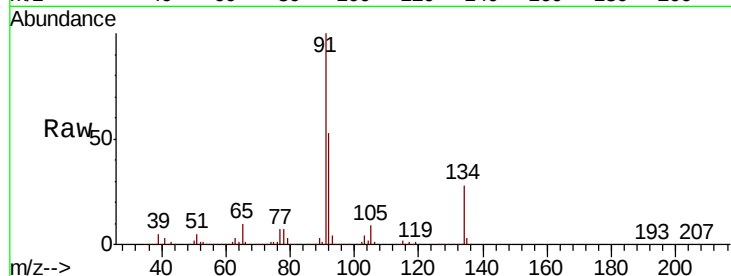
Tot Ion: 91 Resp: 328253

Ion Ratio Lower Upper

91 100

92 53.0 26.5 79.4

134 29.0 14.4 43.2



#90

Hexachloroethane

Concen: 19.982 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW006849.D

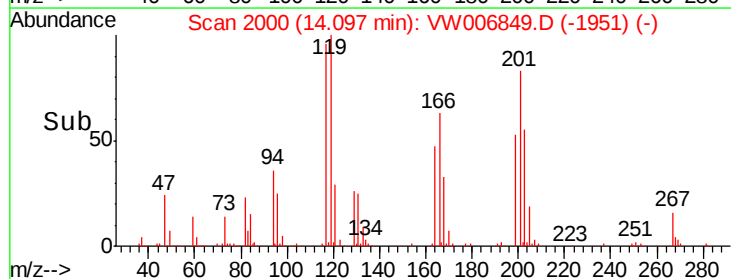
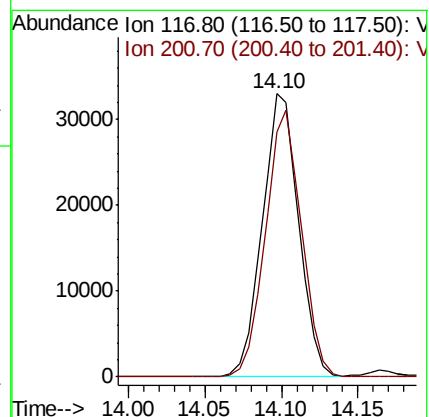
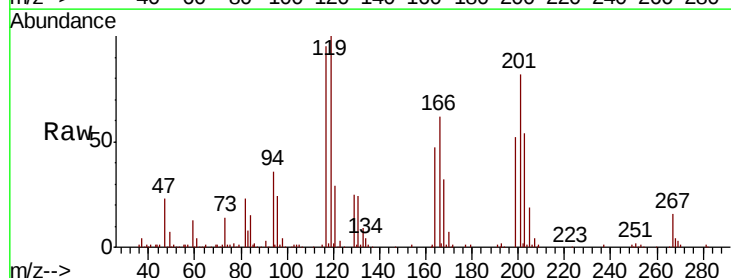
Acq: 13 Nov 2018 13:05

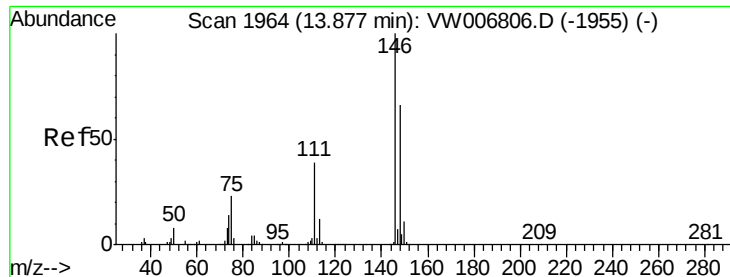
Tgt Ion: 117 Resp: 54610

Ion Ratio Lower Upper

117 100

201 93.0 46.9 140.6





#91

1,2-Dichlorobenzene

Concen: 20.966 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

Instrument :

MSVOA\_W

ClientSampleId :

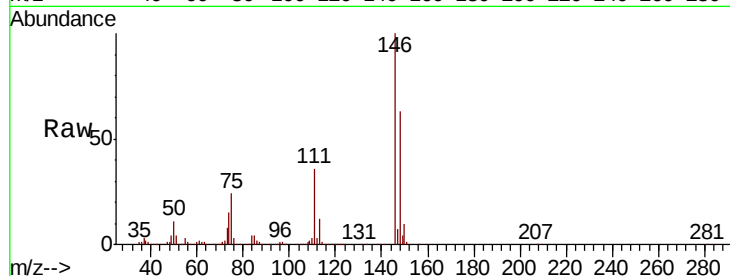
Tot Ion:146 Resp: 163606

Ion Ratio Lower Upper

146 100

111 37.8 19.3 57.8

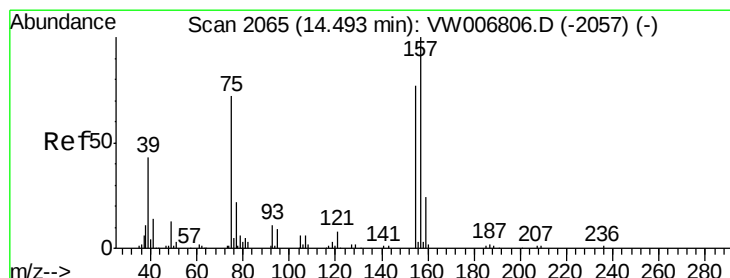
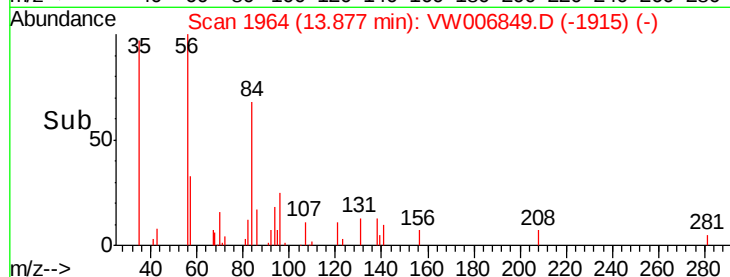
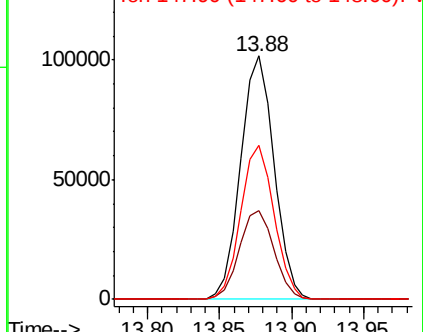
148 63.4 32.4 97.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.047 ug/l

RT: 14.49 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VW006849.D

Acq: 13 Nov 2018 13:05

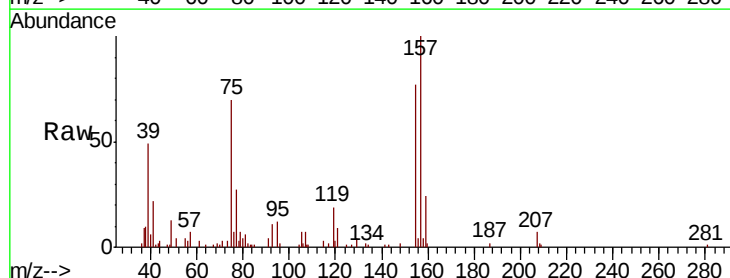
Tgt Ion: 75 Resp: 6970

Ion Ratio Lower Upper

75 100

155 107.0 51.0 153.1

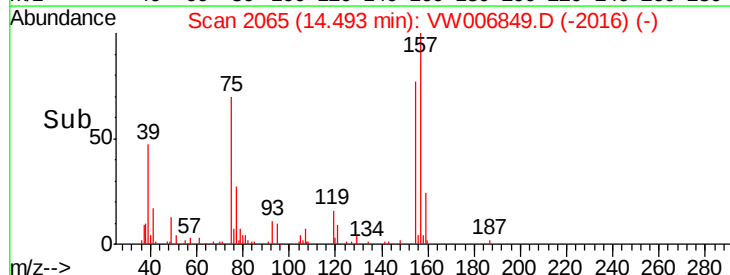
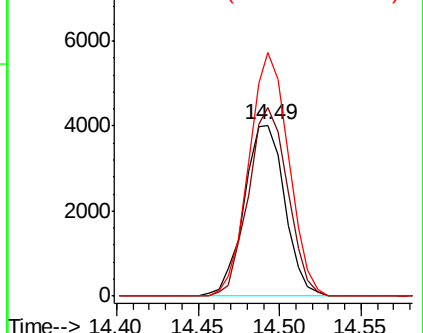
157 139.5 67.4 202.2

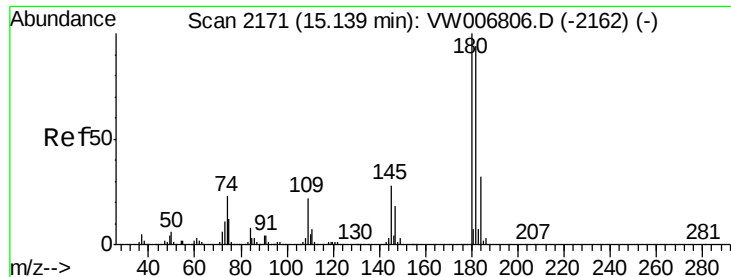


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

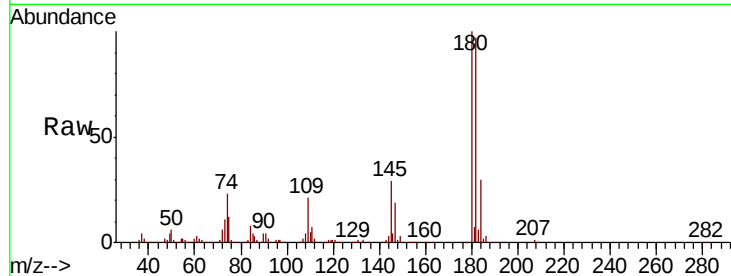




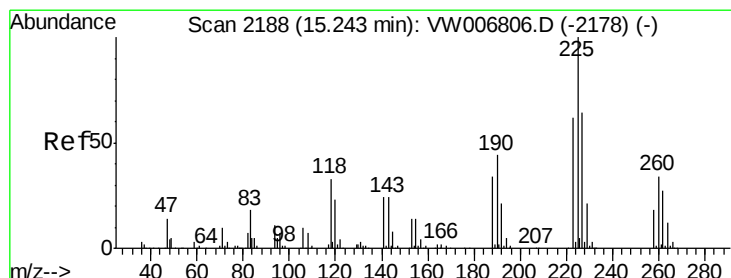
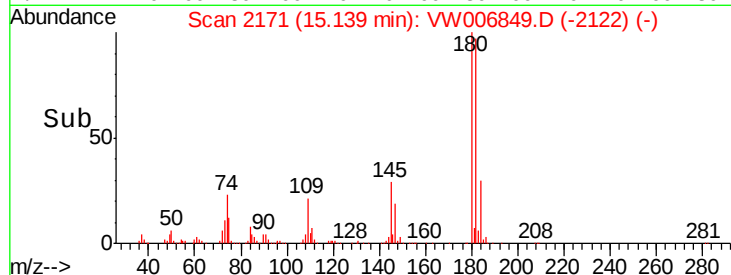
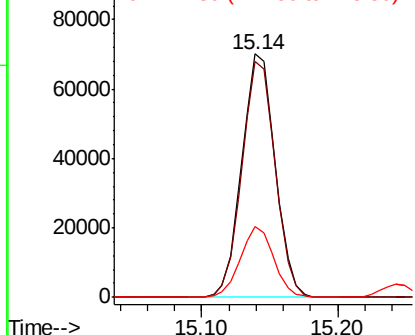
#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.462 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:180 Resp: 120553  
 Ion Ratio Lower Upper  
 180 100  
 182 96.7 47.5 142.5  
 145 29.5 14.0 41.9

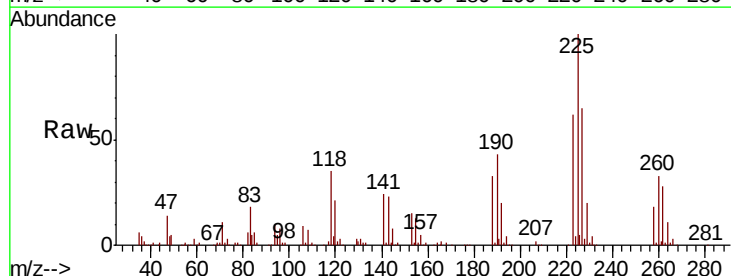


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

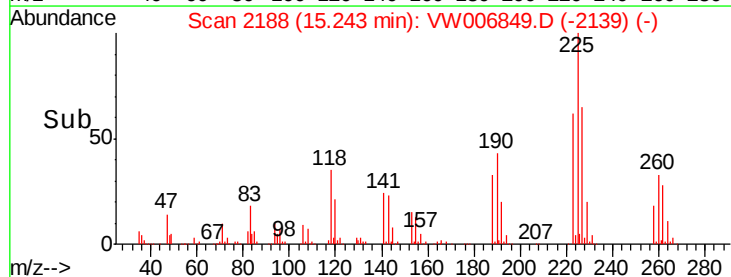
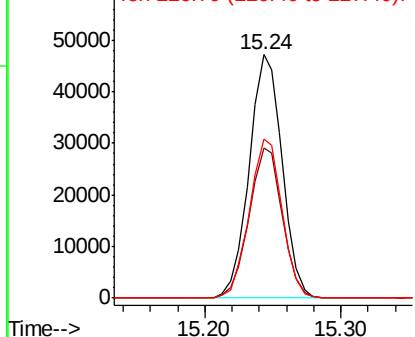


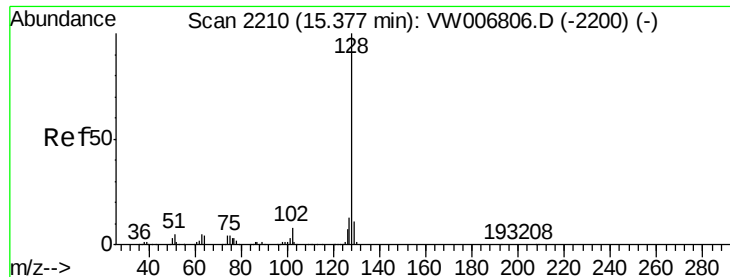
#94  
 Hexachlorobutadiene  
 Concen: 21.438 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. 0.00 min  
 Lab File: VW006849.D  
 Acq: 13 Nov 2018 13:05

Tgt Ion:225 Resp: 80032  
 Ion Ratio Lower Upper  
 225 100  
 223 62.4 31.2 93.6  
 227 64.9 32.3 96.9



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

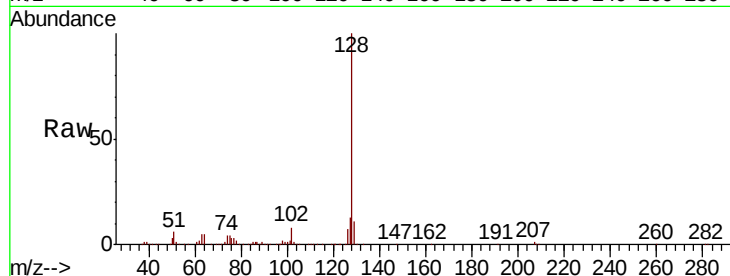




#95  
Naphthalene  
Concen: 19.902 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

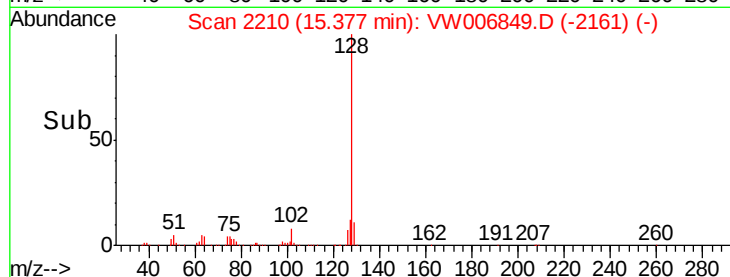
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:128 Resp: 175364  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.3 15.5  
129 11.0 8.6 13.0

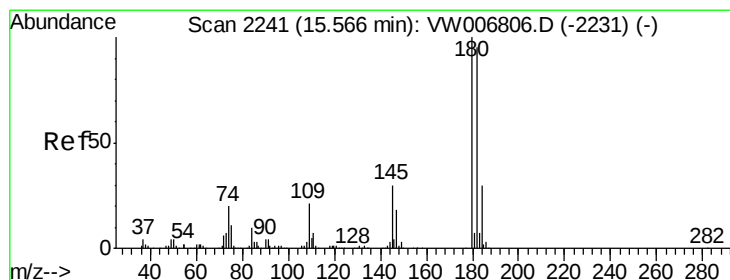


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

15.38

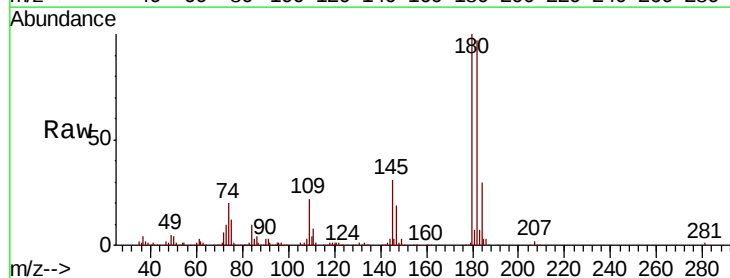


Time-->



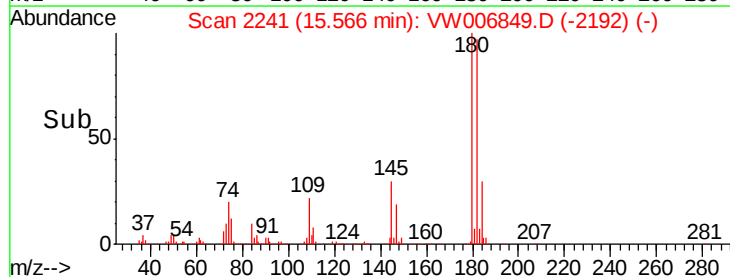
#96  
1,2,3-Trichlorobenzene  
Concen: 19.943 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. 0.00 min  
Lab File: VW006849.D  
Acq: 13 Nov 2018 13:05

Tgt Ion:180 Resp: 100827  
Ion Ratio Lower Upper  
180 100  
182 96.3 47.9 143.6  
145 31.6 15.2 45.5



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

15.57



Time-->