

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112118\  
 Data File : VW006991.D  
 Acq On : 20 Nov 2018 22:39  
 Operator : SY/AP  
 Sample : J5993-05RE  
 Misc : 5.08G/5ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 21 04:51:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 90776    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 158668   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 124002   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 39827    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 41211    | 46.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.74% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 123      | 0.14  | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 0.28%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 148519   | 37.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.08% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 47936    | 30.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.58% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol        | 5.21  | 59   | 68       | 1.175   | ug/l # | 71     |
| 13) Acrolein                  | 4.10  | 56   | 165      | 2.777   | ug/l   | 94     |
| 15) Acrylonitrile             | 5.43  | 53   | 1965     | 11.228  | ug/l # | 38     |
| 16) Acetone                   | 4.15  | 43   | 17243    | 133.634 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.39  | 76   | 19563    | 7.364   | ug/l # | 94     |
| 20) Methylene Chloride        | 4.92  | 84   | 13078    | 8.204   | ug/l   | 97     |
| 25) 2-Butanone                | 7.18  | 43   | 6426     | 29.078  | ug/l   | 93     |
| 30) Chloroform                | 7.63  | 83   | 2565     | 1.496   | ug/l # | 18     |
| 31) Cyclohexane               | 7.95  | 56   | 49534    | 28.940  | ug/l   | 86     |
| 36) 1,1-Dichloropropene       | 7.95  | 75   | 7301     | 4.709   | ug/l # | 55     |
| 37) Ethyl Acetate             | 7.18  | 43   | 6426     | 11.437  | ug/l # | 69     |
| 38) Carbon Tetrachloride      | 7.95  | 117  | 9557     | 6.437   | ug/l # | 17     |
| 39) Methylcyclohexane         | 9.34  | 83   | 167673   | 86.414  | ug/l   | 94     |
| 40) Benzene                   | 8.32  | 78   | 74662    | 17.839  | ug/l   | 100    |
| 41) Methacrylonitrile         | 7.53  | 41   | 792      | 2.270   | ug/l # | 40     |
| 43) Isopropyl Acetate         | 8.42  | 43   | 17058    | 15.931  | ug/l # | 49     |
| 45) 1,2-Dichloropropane       | 9.34  | 63   | 2003     | 1.941   | ug/l # | 1      |
| 47) Bromodichloromethane      | 9.62  | 83   | 6374     | 4.682   | ug/l # | 30     |
| 48) Methyl methacrylate       | 9.47  | 41   | 4086     | 7.914   | ug/l # | 12     |
| 51) 4-Methyl-2-Pentanone      | 10.25 | 43   | 10187    | 18.827  | ug/l # | 77     |
| 52) Toluene                   | 10.39 | 92   | 43596    | 15.306  | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane     | 10.76 | 97   | 41745    | 54.916  | ug/l # | 23     |
| 56) Ethyl methacrylate        | 10.62 | 69   | 6731     | 7.628   | ug/l # | 85     |
| 59) 2-Hexanone                | 10.94 | 43   | 63052    | 170.163 | ug/l # | 29     |
| 65) Chlorobenzene             | 11.66 | 112  | 2984     | 1.153   | ug/l   | 100    |
| 67) Ethyl Benzene             | 11.73 | 91   | 187860   | 39.512  | ug/l   | 99     |
| 68) m/p-Xylenes               | 11.84 | 106  | 222410   | 119.233 | ug/l   | 99     |
| 69) o-Xylene                  | 12.17 | 106  | 143202   | 81.417  | ug/l   | 98     |
| 70) Styrene                   | 12.17 | 104  | 7833     | 2.798   | ug/l # | 1      |
| 73) Isopropylbenzene          | 12.47 | 105  | 29559    | 9.550   | ug/l   | 99     |
| 74) N-amyl acetate            | 12.26 | 43   | 43322    | 83.509  | ug/l # | 57     |
| 75) 1,1,2,2-Tetrachloroethane | 12.70 | 83   | 2289     | 5.557   | ug/l # | 7      |
| 76) 1,2,3-Trichloropropane    | 12.87 | 75   | 2173     | 6.943   | ug/l # | 100    |
| 78) n-propylbenzene           | 12.80 | 91   | 79891    | 21.308  | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 Response via : Initial Calibration

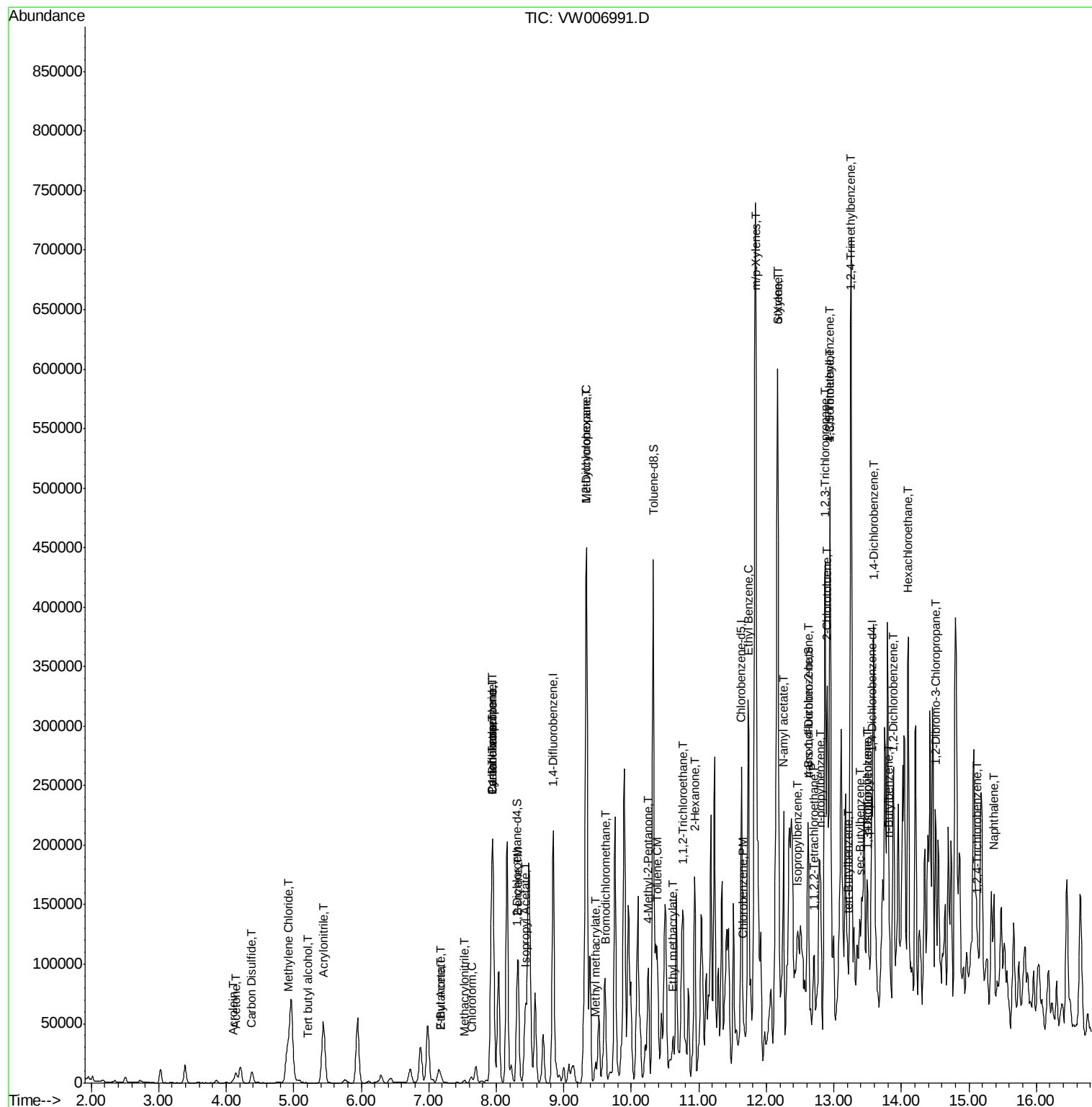
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 79) 2-Chlorotoluene            | 12.90 | 91   | 17311    | 8.007   | ug/l # | 54       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 161668   | 60.399  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 21631    | 173.527 | ug/l # | 14       |
| 82) 4-Chlorotoluene            | 12.94 | 91   | 16539    | 7.290   | ug/l # | 48       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 3029     | 1.307   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 359180   | 134.687 | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 26811    | 8.189   | ug/l # | 60       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 29123    | 10.083  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 1714     | 1.263   | ug/l # | 1        |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 5242     | 3.874   | ug/l # | 42       |
| 89) n-Butylbenzene             | 13.82 | 91   | 20517    | 7.549   | ug/l # | 52       |
| 90) Hexachloroethane           | 14.10 | 117  | 13255    | 31.434  | ug/l # | 14       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 2787     | 2.343   | ug/l # | 1        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 511      | 7.345   | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 15.13 | 180  | 1459     | 1.860   | ug/l # | 1        |
| 95) Naphthalene                | 15.37 | 128  | 69820    | 49.047  | ug/l # | 95       |

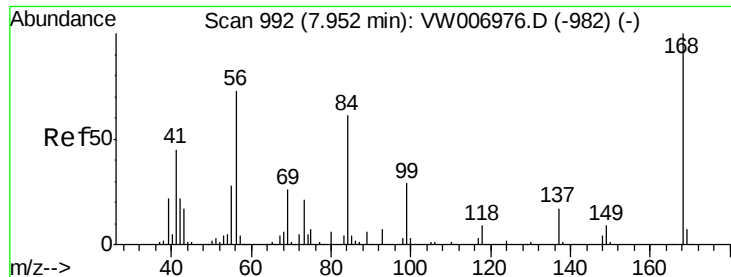
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

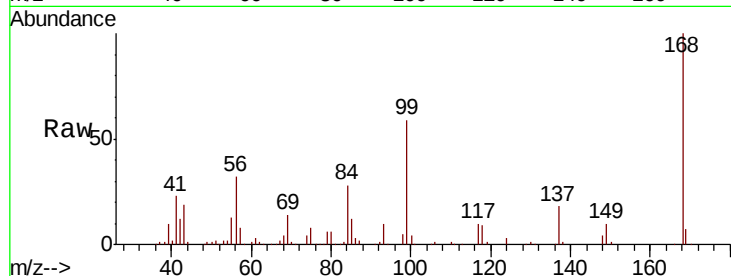
ClientSampleId :

Tot Ion:168 Resp: 90776

Ion Ratio Lower Upper

168 100

99 59.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

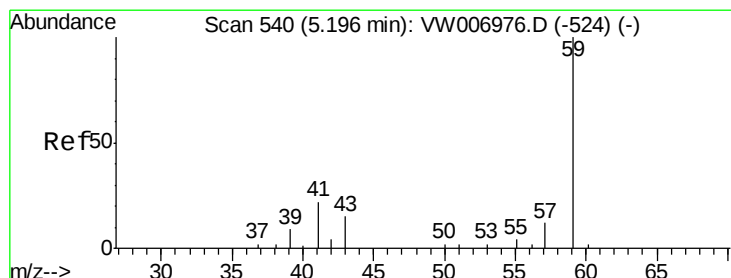
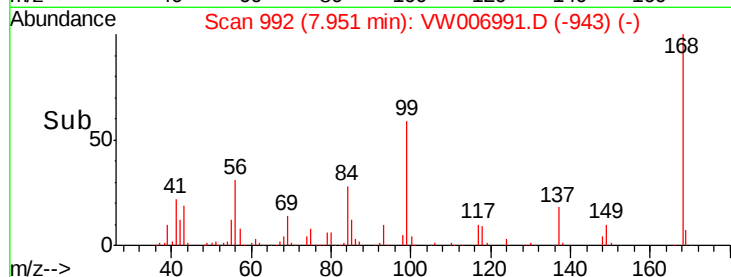
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.175 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.02 min

Lab File: VW006991.D

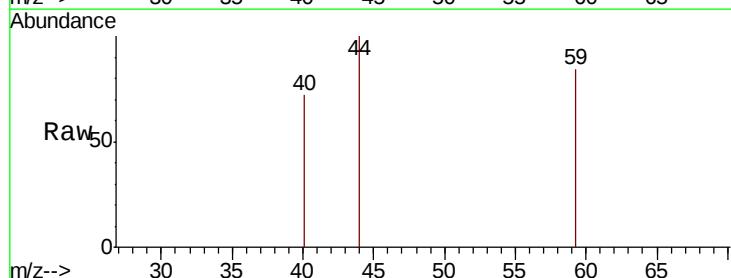
Acq: 20 Nov 2018 22:39

Tgt Ion: 59 Resp: 68

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

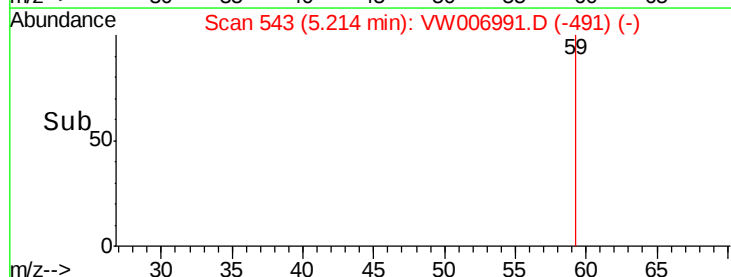
5.21

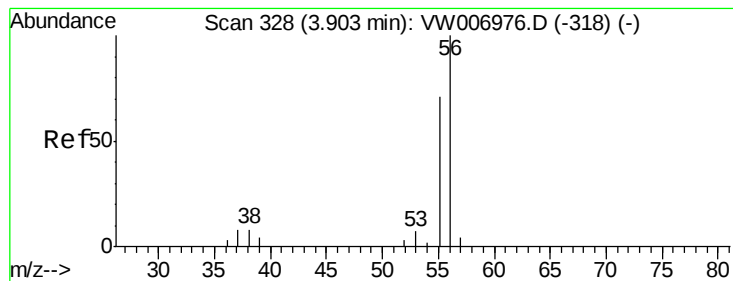
100

50

0

Time-->





#13

Acrolein

Concen: 2.777 ug/l

RT: 4.10 min Scan# 360

Delta R.T. 0.19 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

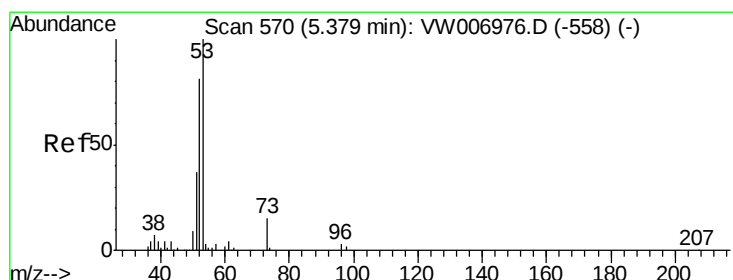
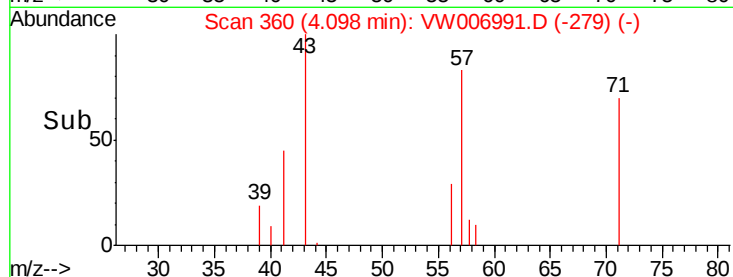
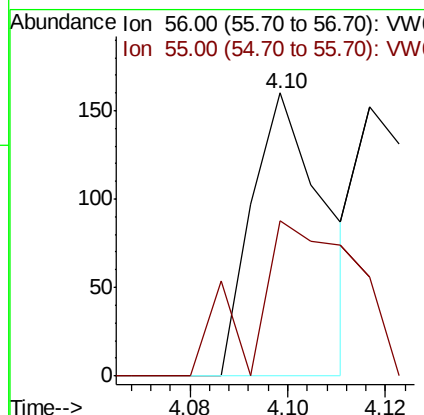
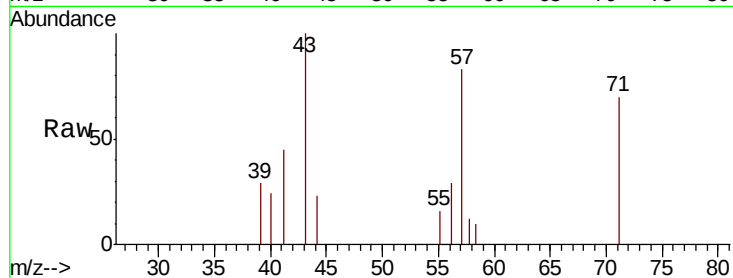
ClientSampleId :

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 77.0 57.5 86.3



#15

Acrylonitrile

Concen: 11.228 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.05 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

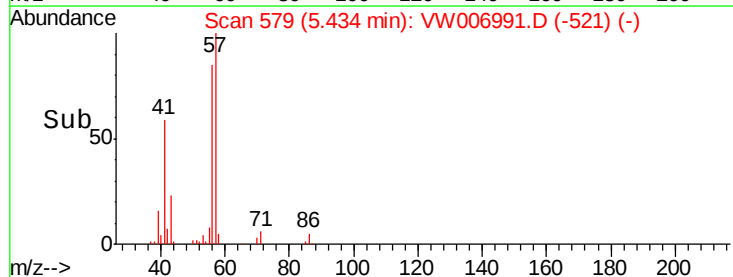
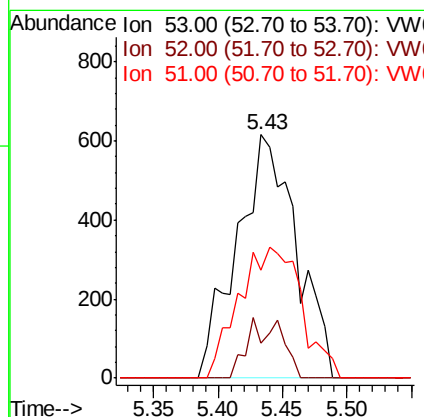
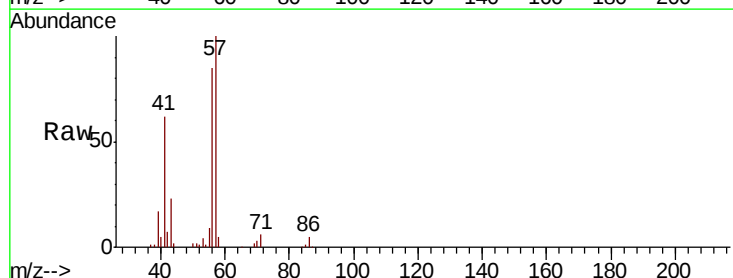
Tgt Ion: 53 Resp: 1965

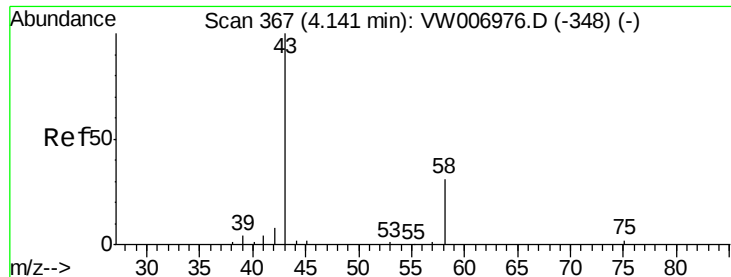
Ion Ratio Lower Upper

53 100

52 14.1 65.7 98.5#

51 57.0 29.9 44.9#





#16

Acetone

Concen: 133.634 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

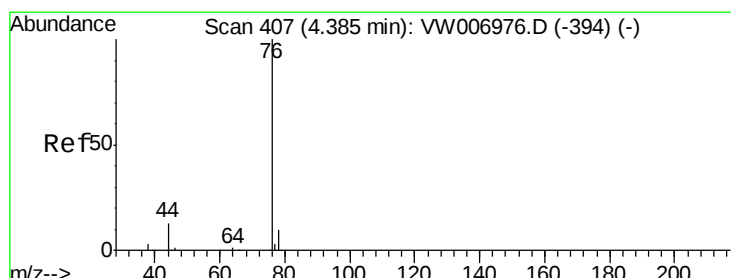
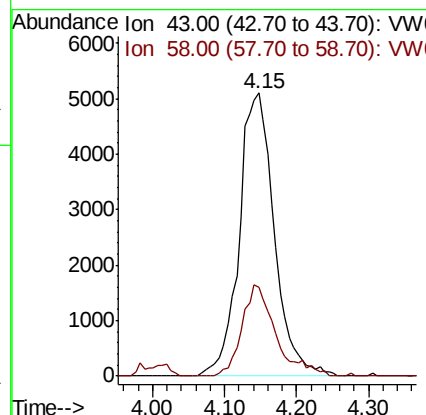
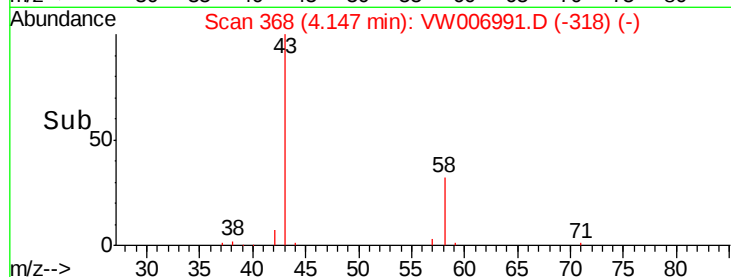
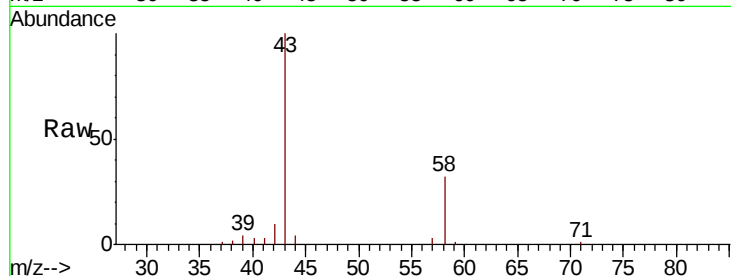
ClientSampleId :

Tot Ion: 43 Resp: 17243

Ion Ratio Lower Upper

43 100

58 31.6 24.8 37.2



#17

Carbon Disulfide

Concen: 7.364 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW006991.D

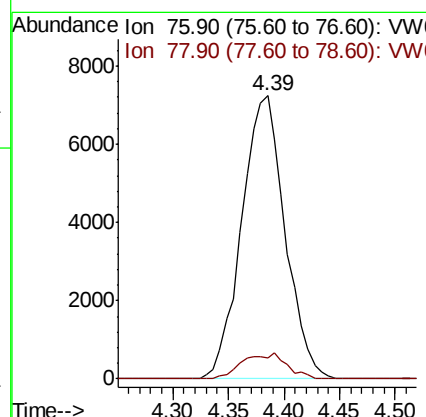
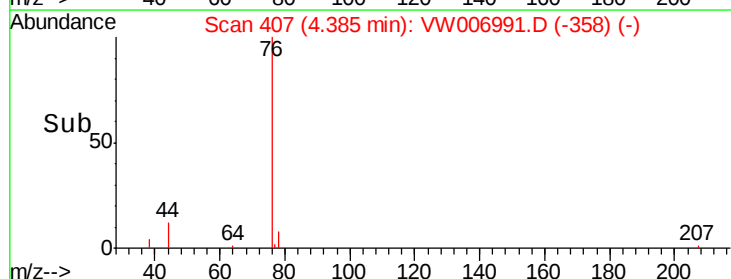
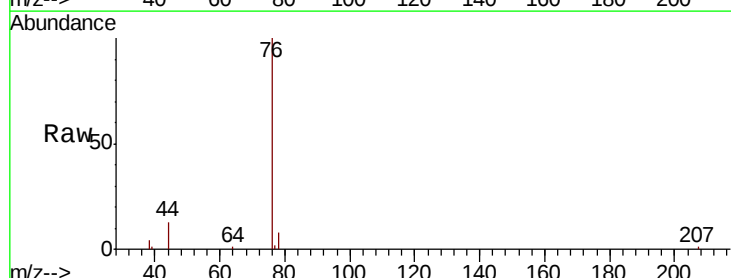
Acq: 20 Nov 2018 22:39

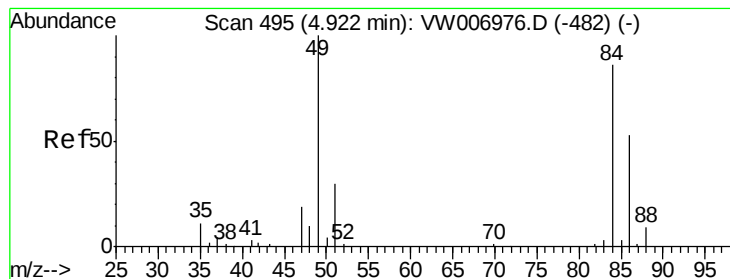
Tgt Ion: 76 Resp: 19563

Ion Ratio Lower Upper

76 100

78 7.6 7.8 11.6#





#20

Methvlene Chloride

Concen: 8.204 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 84 Resp: 13078

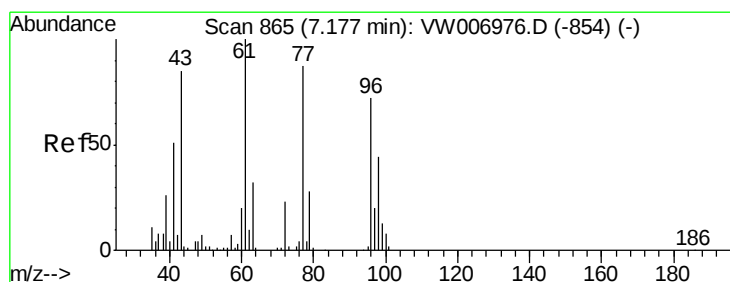
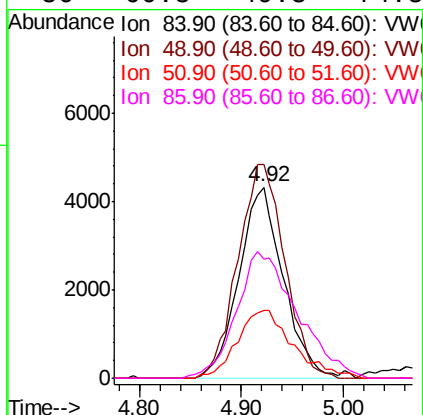
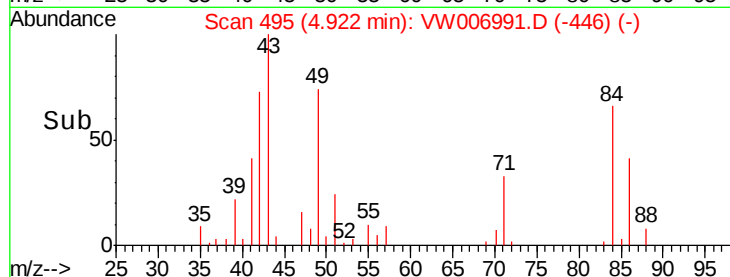
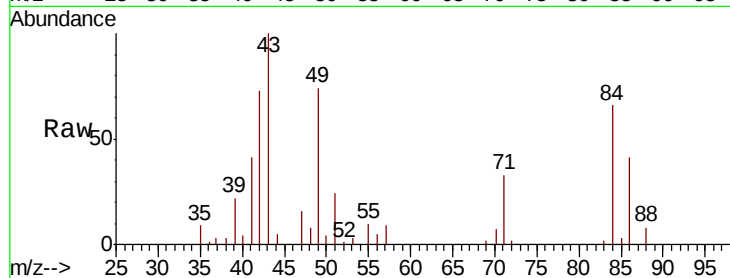
Ion Ratio Lower Upper

84 100

49 111.8 93.4 140.0

51 35.8 28.4 42.6

86 60.8 49.8 74.8



#25

2-Butanone

Concen: 29.078 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW006991.D

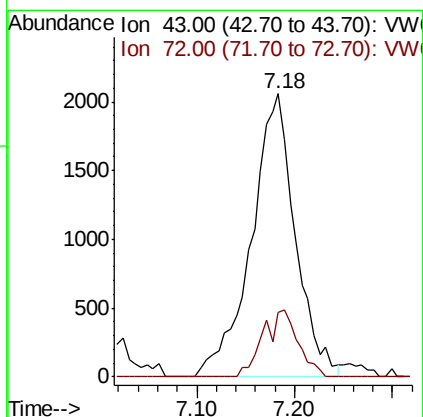
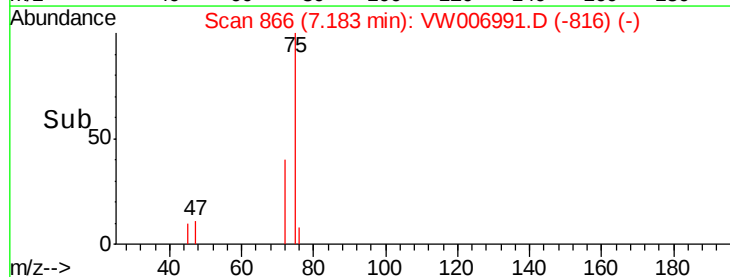
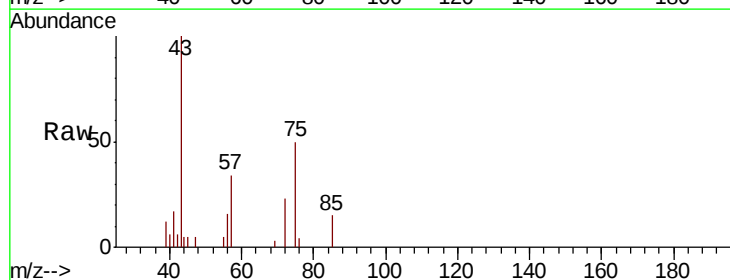
Acq: 20 Nov 2018 22:39

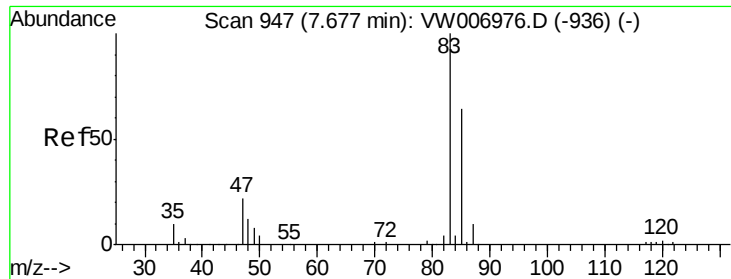
Tgt Ion: 43 Resp: 6426

Ion Ratio Lower Upper

43 100

72 22.9 21.3 31.9

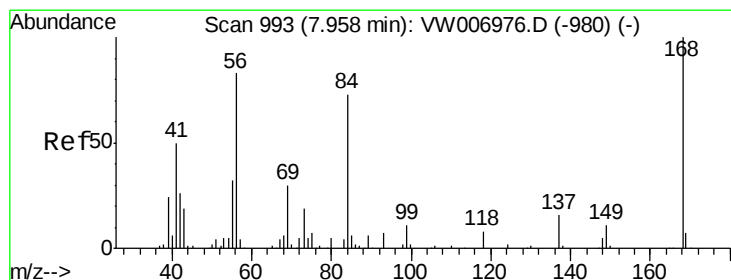
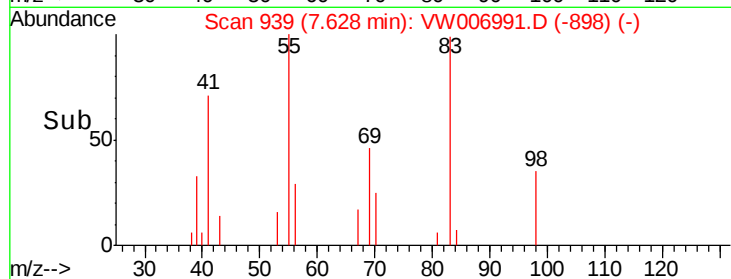
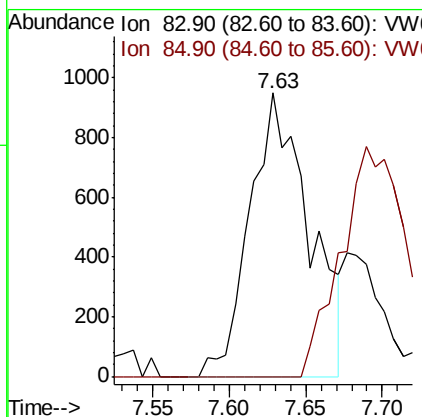
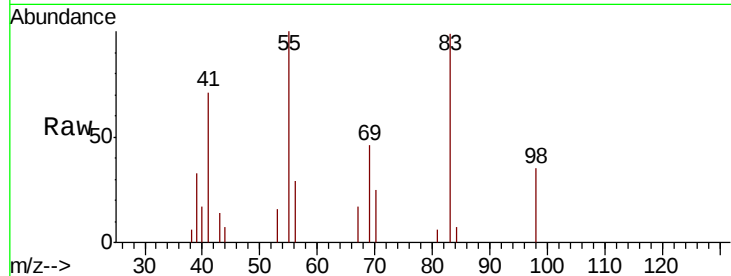




#30  
Chloroform  
Concen: 1.496 ug/l  
RT: 7.63 min Scan# 939  
Delta R.T. -0.05 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

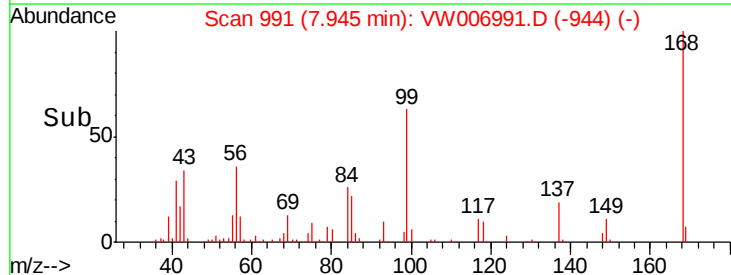
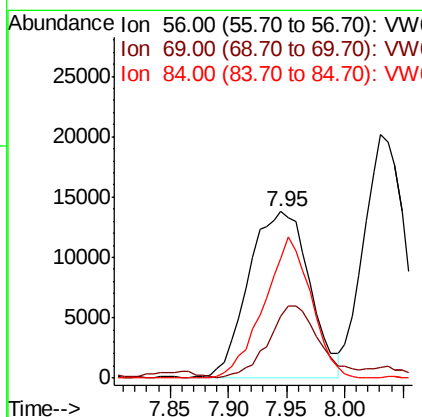
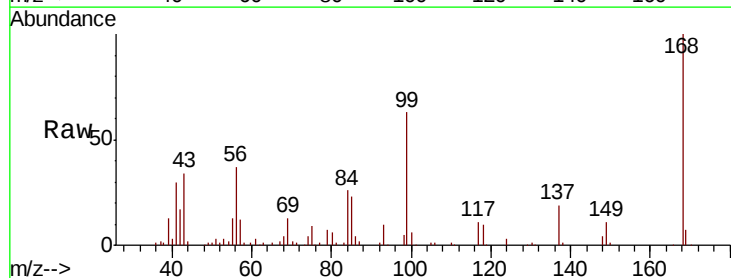
Instrument :  
MSVOA\_W  
ClientSampled :

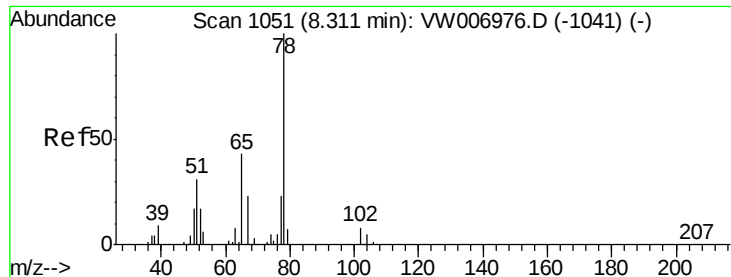
Tot Ion: 83 Resp: 2565  
Ion Ratio Lower Upper  
83 100  
85 0.0 50.9 76.3#



#31  
Cyclohexane  
Concen: 28.940 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 56 Resp: 49534  
Ion Ratio Lower Upper  
56 100  
69 32.8 29.1 43.7  
84 71.7 70.6 105.8

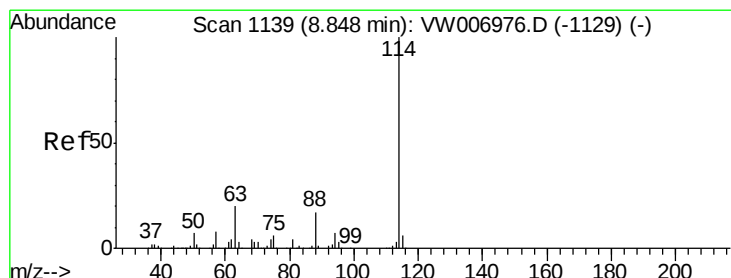
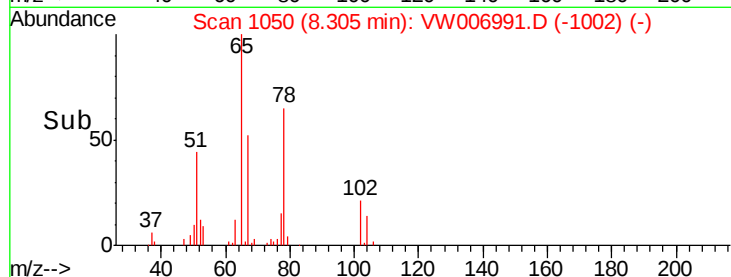
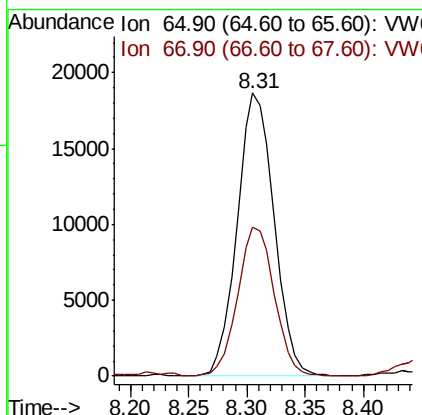
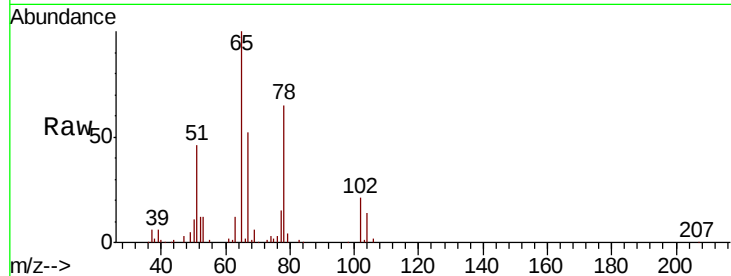




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.371 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

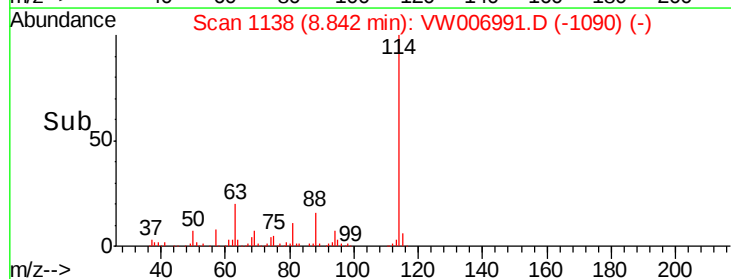
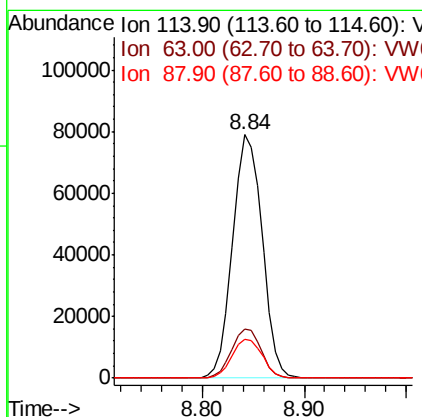
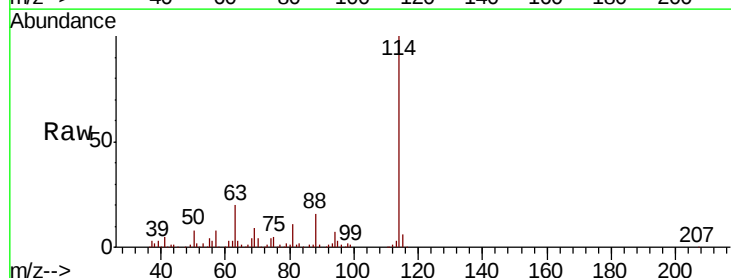
Instrument :  
 MSVOA\_W  
 ClientSampleId :

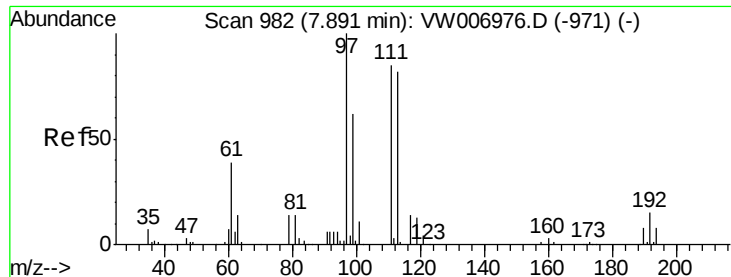
Tot Ion: 65 Resp: 41211  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion: 114 Resp: 158668  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.4  
 88 16.0 0.0 34.2

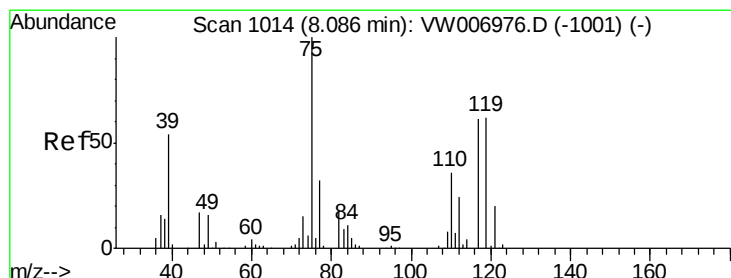
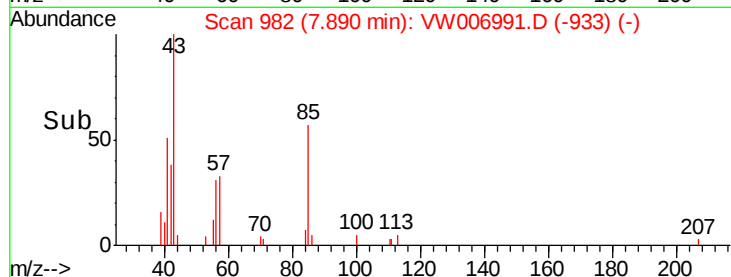
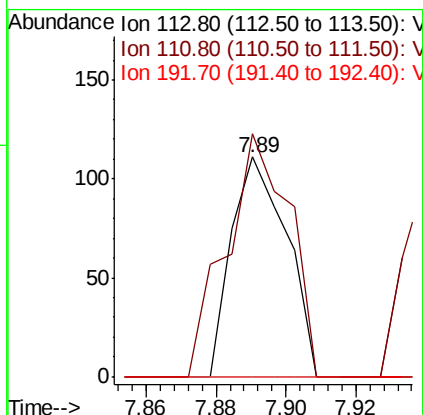
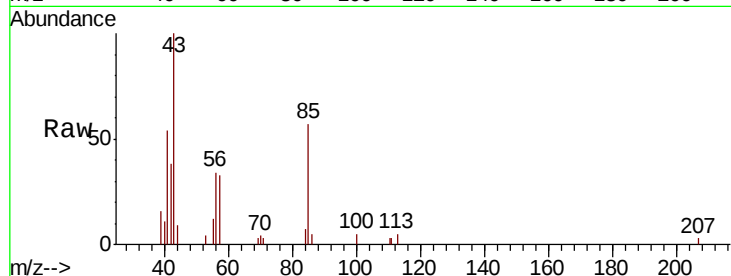




#35  
 Dibromofluoromethane  
 Concen: 0.137 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

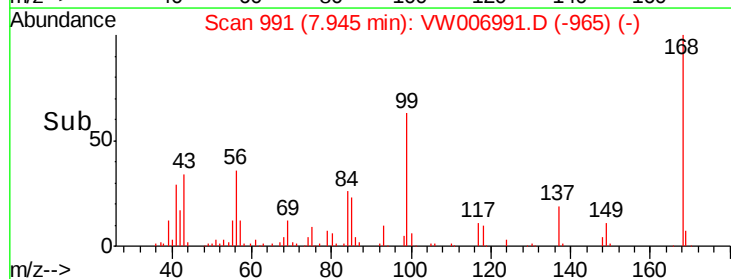
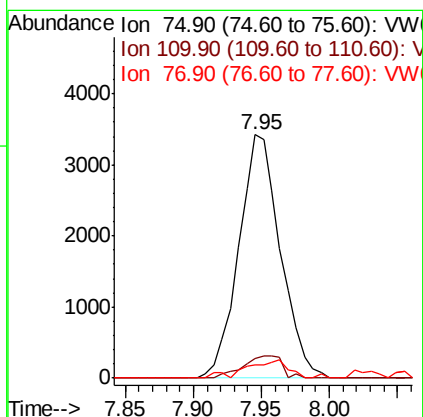
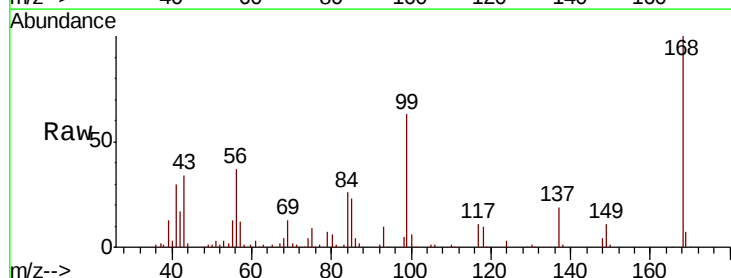
Instrument :  
 MSVOA\_W  
 ClientSampleId :

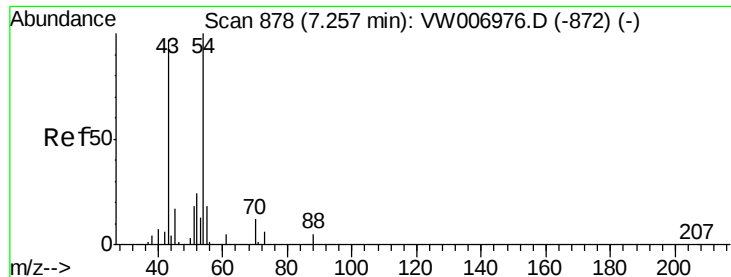
Tot Ion:113 Resp: 123  
 Ion Ratio Lower Upper  
 113 100  
 111 125.2 81.0 121.6#  
 192 0.0 15.0 22.6#



#36  
 1,1-Dichloropropene  
 Concen: 4.709 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion: 75 Resp: 7301  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 18.0 54.0#  
 77 7.5 24.9 37.3#

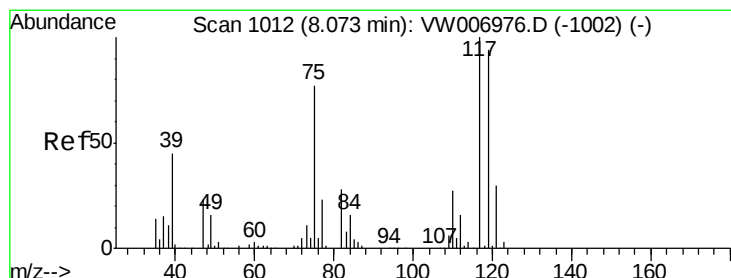
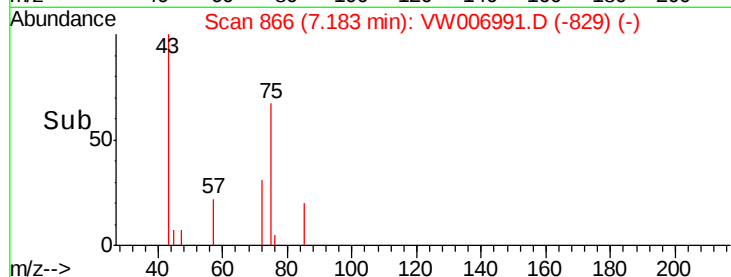
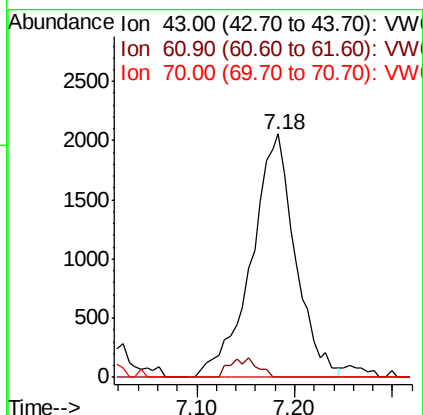
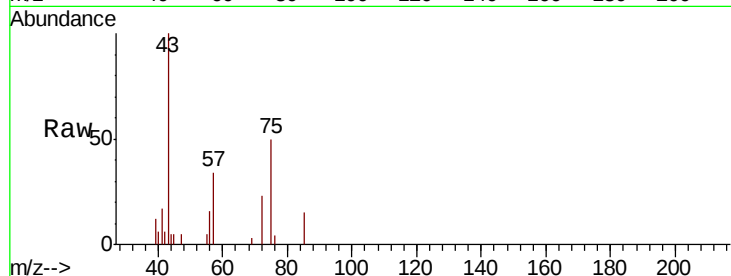




#37  
Ethyl Acetate  
Concen: 11.437 ug/l  
RT: 7.18 min Scan# 866  
Delta R.T. -0.07 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

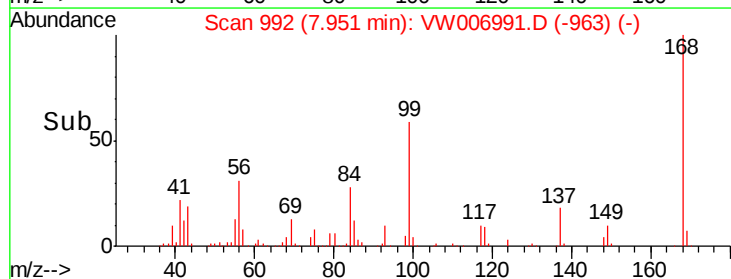
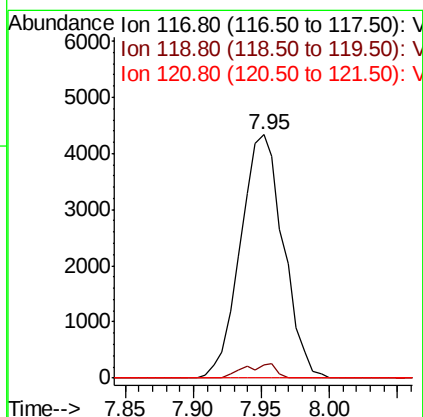
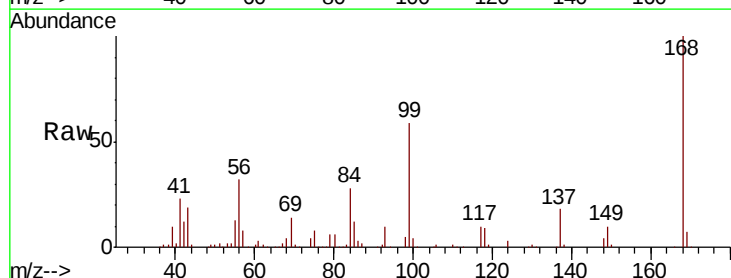
Instrument :  
MSVOA\_W  
ClientSampled :

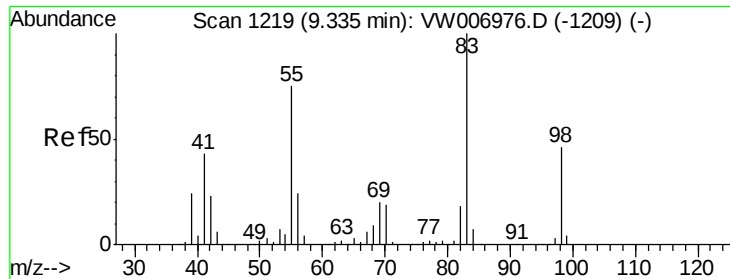
Tot Ion: 43 Resp: 6426  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.4 15.6#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 6.437 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 117 Resp: 9557  
Ion Ratio Lower Upper  
117 100  
119 5.5 74.9 112.3#  
121 0.0 23.6 35.4#

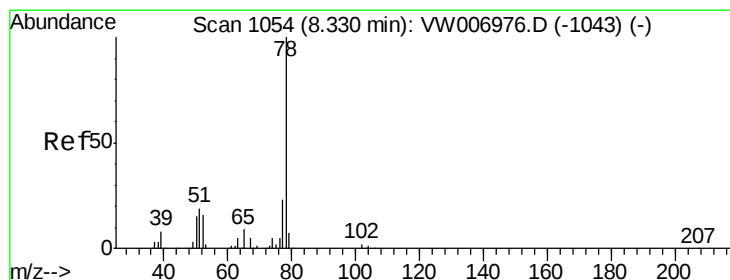
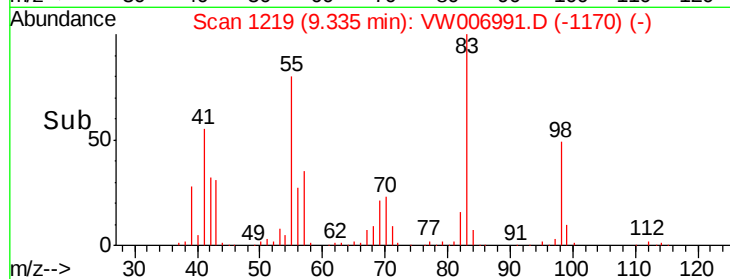
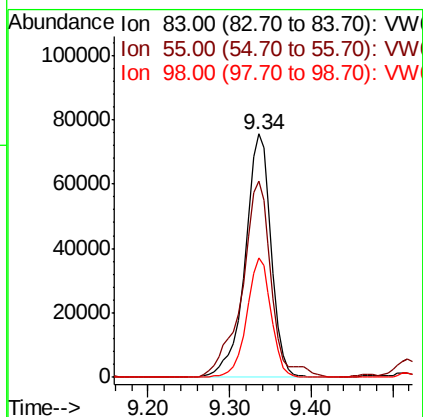
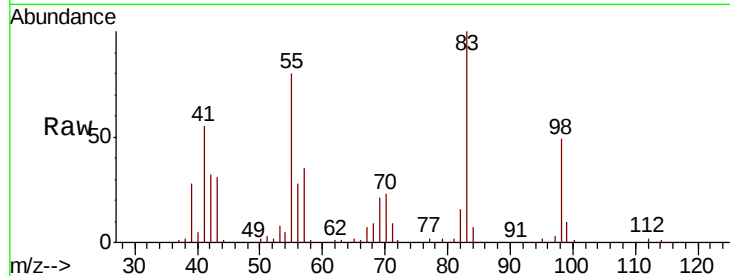




#39  
Methvlcvclohexane  
Concen: 86.414 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

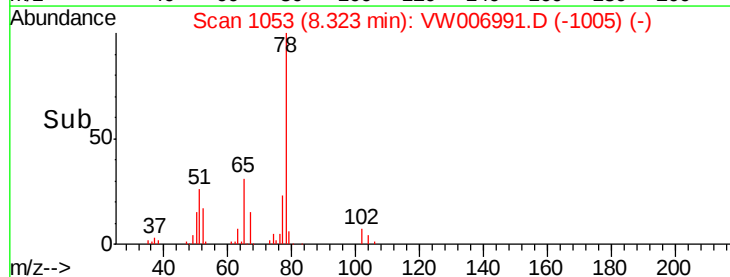
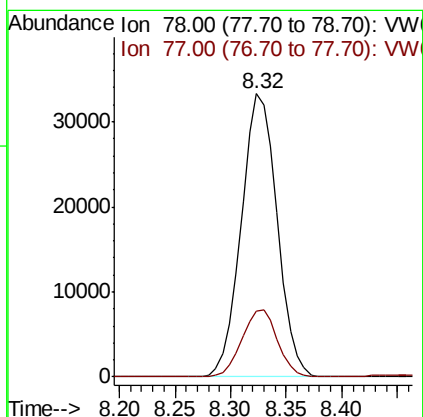
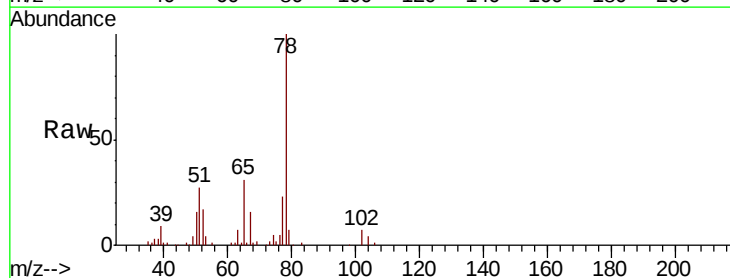
Instrument :  
MSVOA\_W  
ClientSampled :

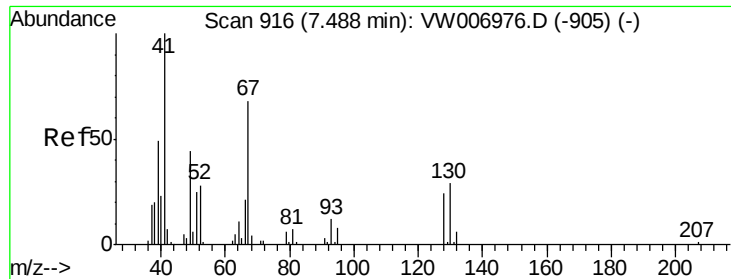
Tot Ion: 83 Resp: 167673  
Ion Ratio Lower Upper  
83 100  
55 80.4 59.6 89.4  
98 48.9 37.1 55.7



#40  
Benzene  
Concen: 17.839 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 78 Resp: 74662  
Ion Ratio Lower Upper  
78 100  
77 23.3 18.6 28.0

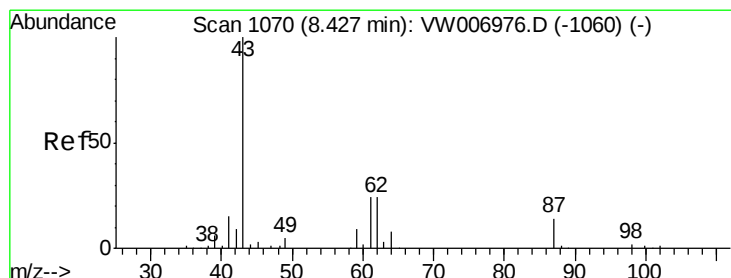
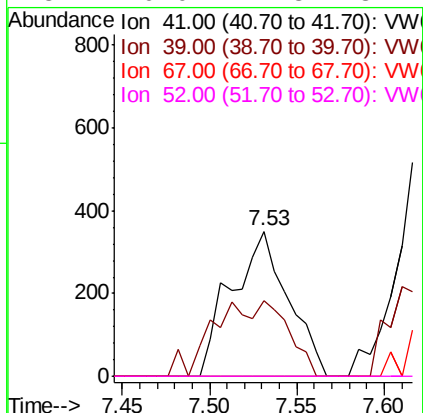
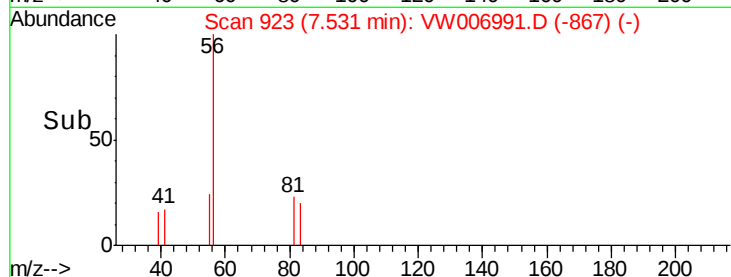
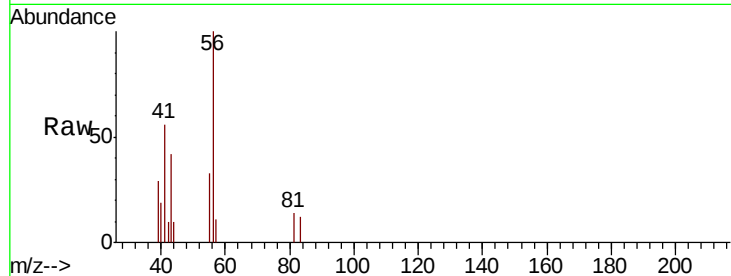




#41  
Methacrylonitrile  
Concen: 2.270 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.04 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

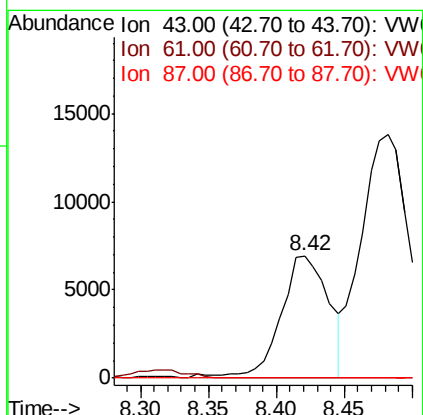
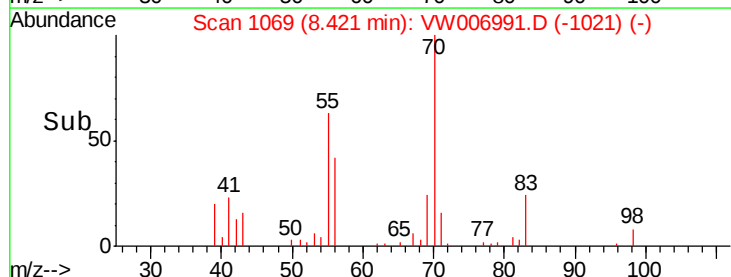
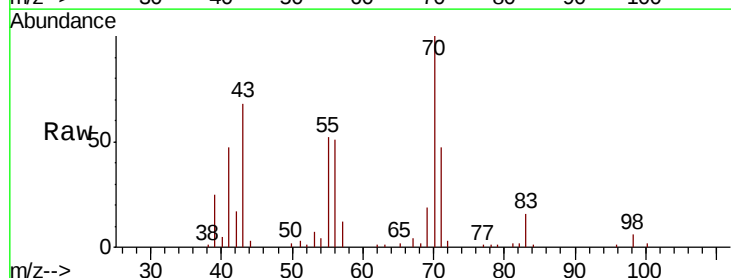
Instrument :  
MSVOA\_W  
ClientSampleId :

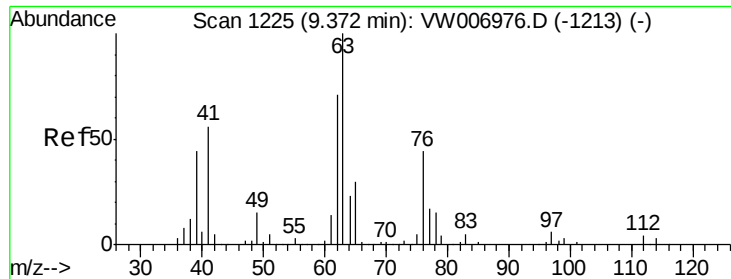
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 40.0  | 48.6  | 73.0# |
| 67      | 0.0   | 59.8  | 89.8# |
| 52      | 0.0   | 24.8  | 37.2# |



#43  
Isopropyl Acetate  
Concen: 15.931 ug/l  
RT: 8.42 min Scan# 1069  
Delta R.T. -0.01 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 26.1  | 39.1# |
| 87      | 0.0   | 11.2  | 16.8# |

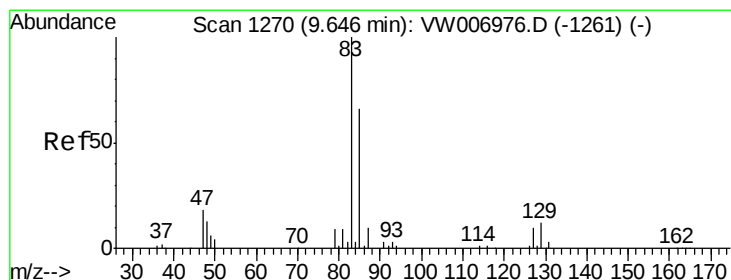
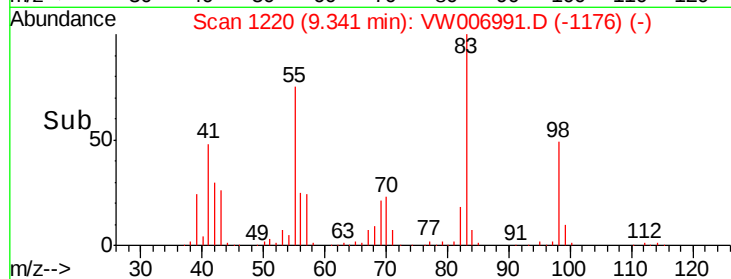
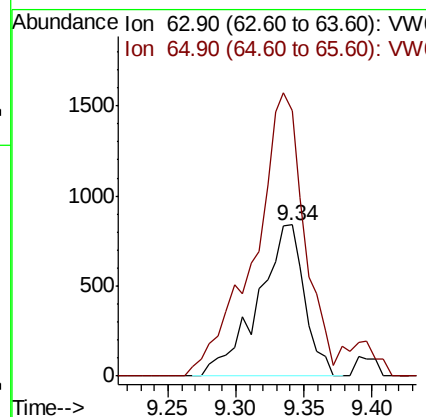
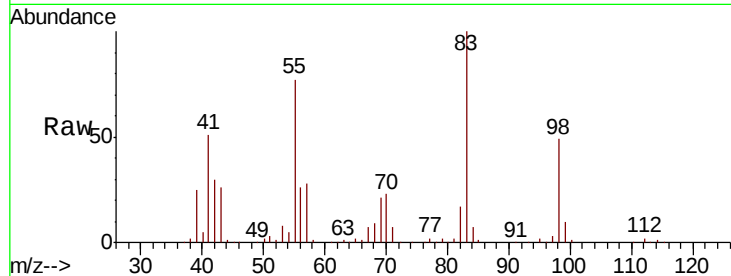




#45  
 1,2-Dichloropropane  
 Concen: 1.941 ug/l  
 RT: 9.34 min Scan# 1220  
 Delta R.T. -0.03 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

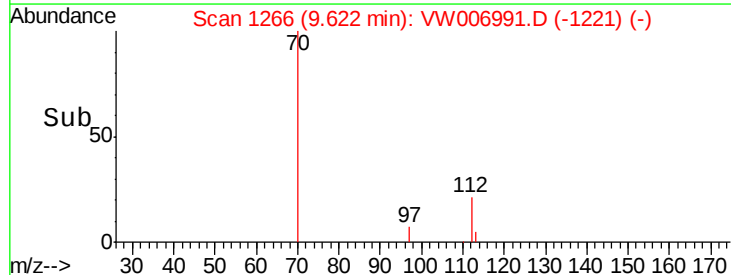
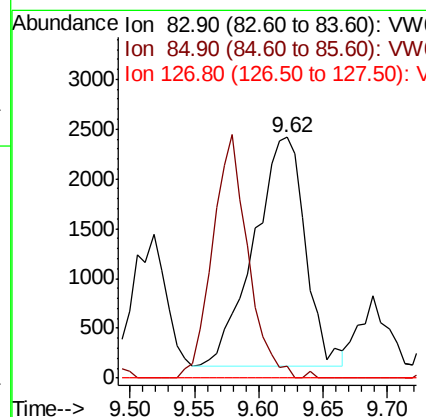
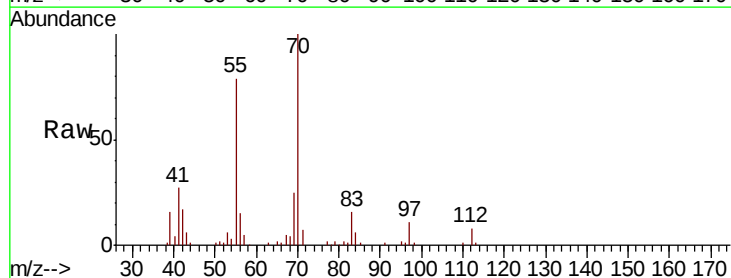
Instrument :  
 MSVOA\_W  
 ClientSampled :

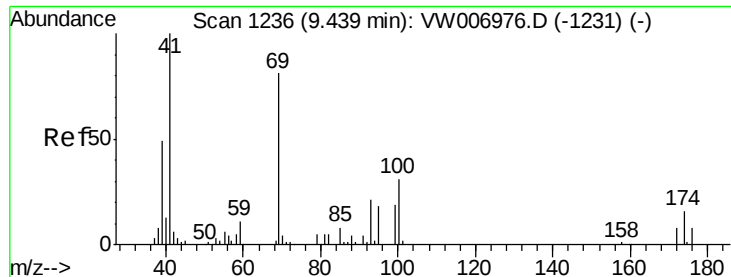
Tot Ion: 63 Resp: 2003  
 Ion Ratio Lower Upper  
 63 100  
 65 169.1 24.4 36.6#



#47  
 Bromodichloromethane  
 Concen: 4.682 ug/l  
 RT: 9.62 min Scan# 1266  
 Delta R.T. -0.02 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion: 83 Resp: 6374  
 Ion Ratio Lower Upper  
 83 100  
 85 5.4 52.9 79.3#  
 127 0.0 7.8 11.6#

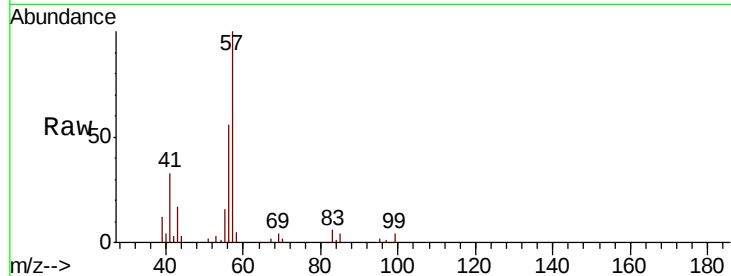




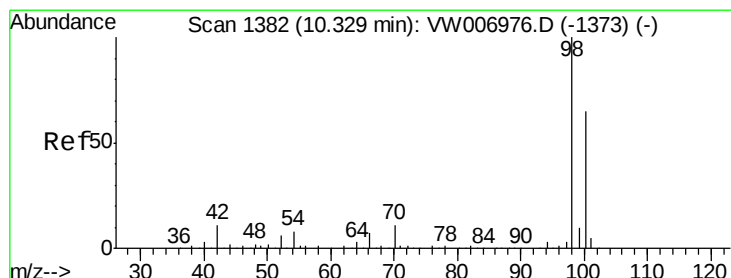
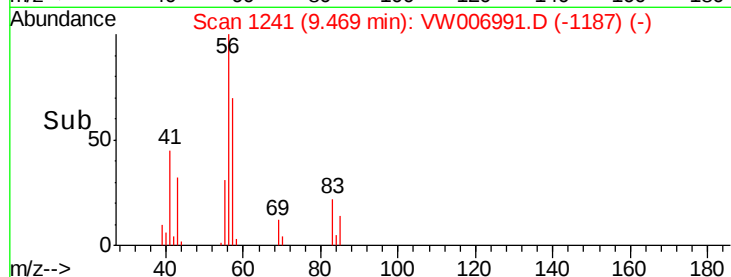
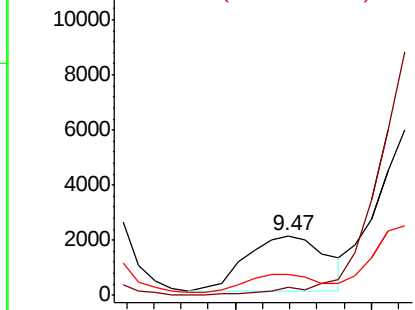
#48  
Methyl methacrylate  
Concen: 7.914 ug/l  
RT: 9.47 min Scan# 1241  
Delta R.T. 0.03 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 41 Resp: 4086  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.4 107.0#  
39 0.0 44.8 67.2#

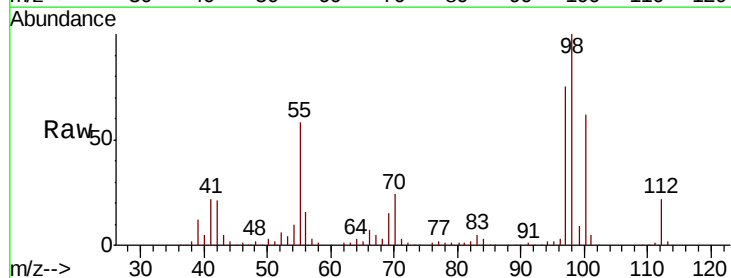


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 39.00 (38.70 to 39.70): VW

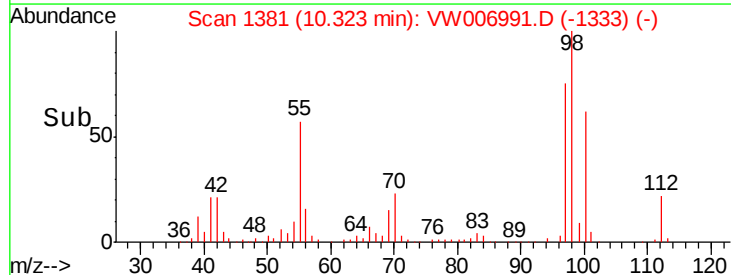
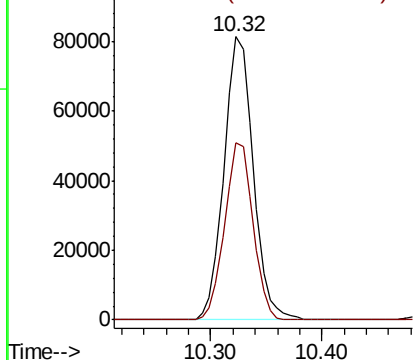


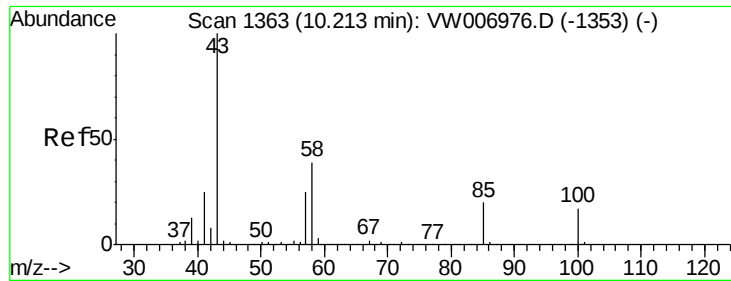
#50  
Toluene-d8  
Concen: 37.535 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.01 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 98 Resp: 148519  
Ion Ratio Lower Upper  
98 100  
100 60.5 52.2 78.2



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

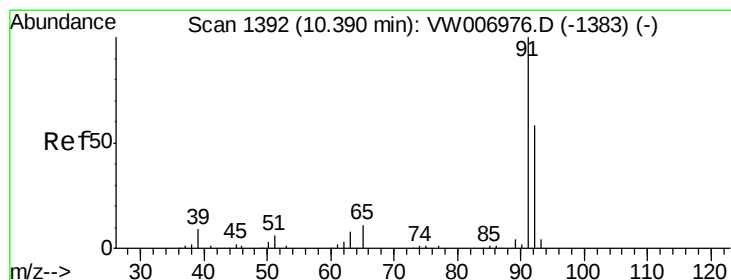
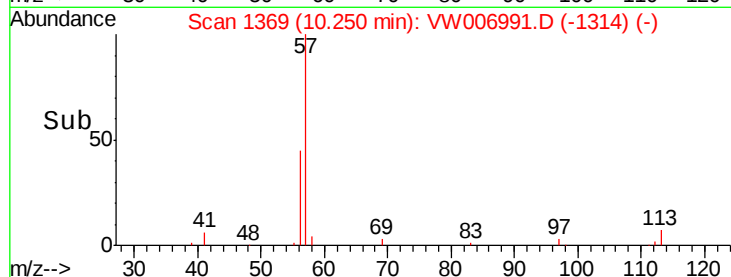
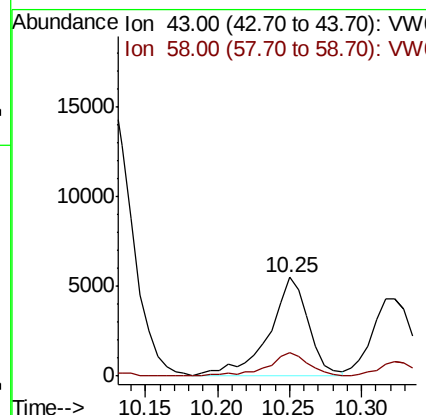
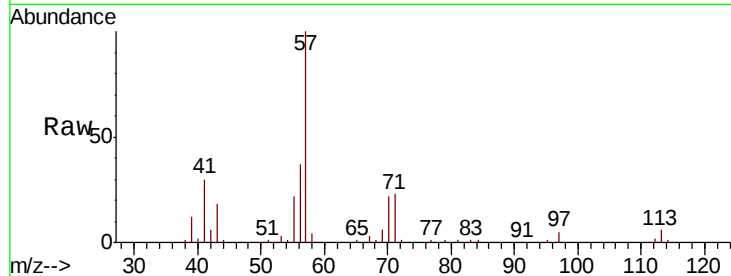




#51  
4-Methyl-2-Pentanone  
Concen: 18.827 ug/l  
RT: 10.25 min Scan# 1369  
Delta R.T. 0.04 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

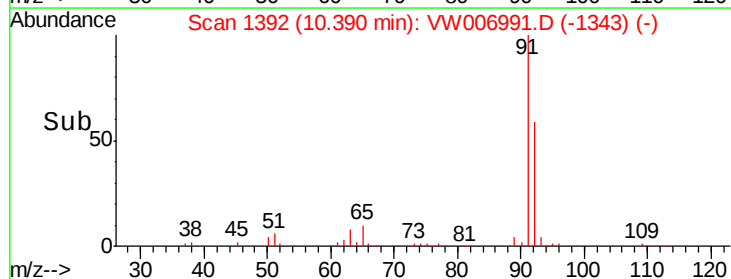
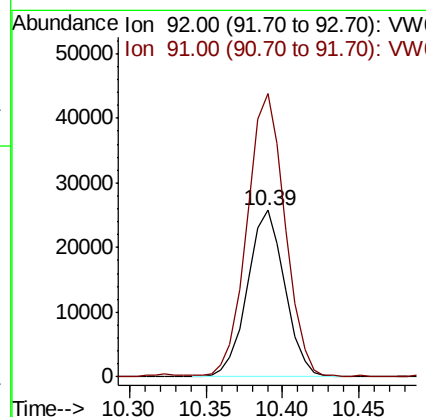
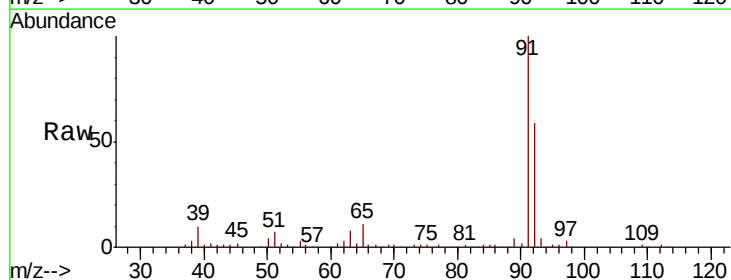
Instrument :  
MSVOA\_W  
ClientSampleId :

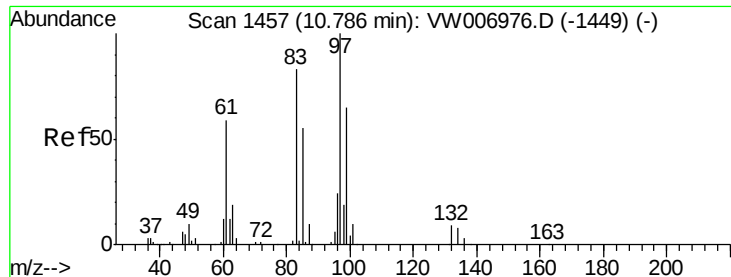
Tot Ion: 43 Resp: 10187  
Ion Ratio Lower Upper  
43 100  
58 25.4 31.8 47.6#



#52  
Toluene  
Concen: 15.306 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 92 Resp: 43596  
Ion Ratio Lower Upper  
92 100  
91 172.6 137.3 205.9

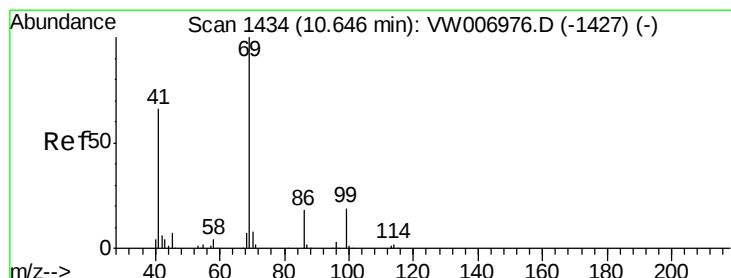
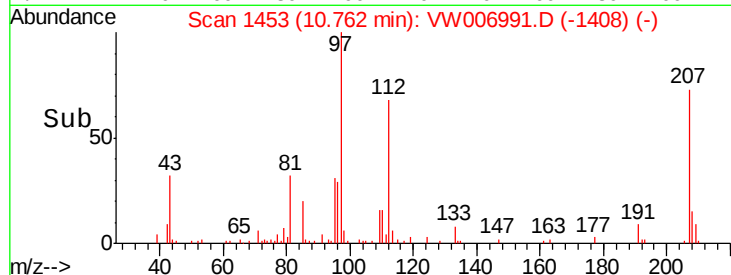
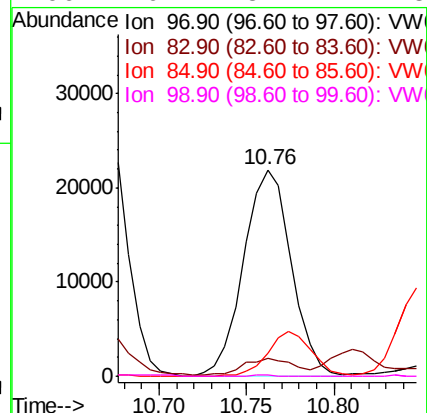
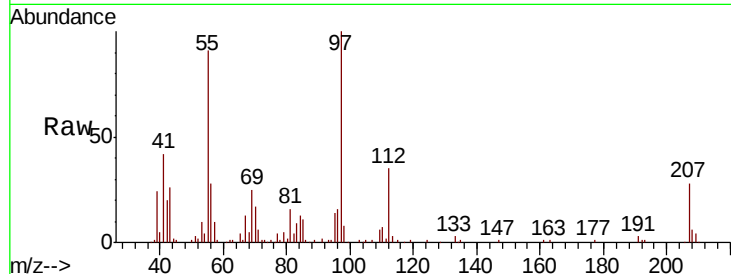




#55  
 1,1,2-Trichloroethane  
 Concen: 54.916 ug/l  
 RT: 10.76 min Scan# 1453  
 Delta R.T. -0.02 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

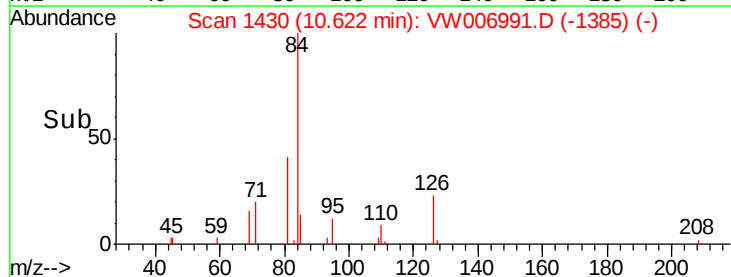
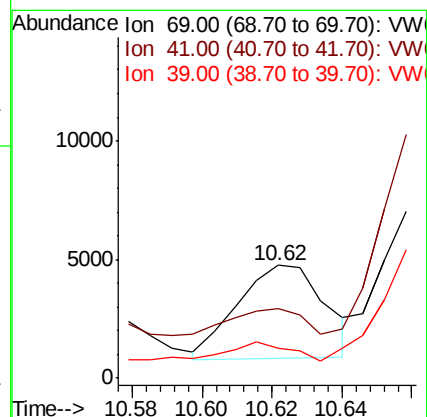
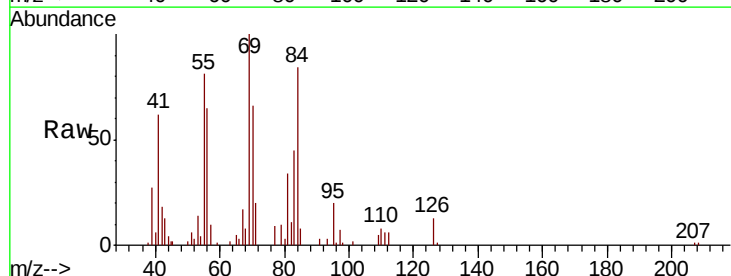
Instrument :  
 MSVOA\_W  
 ClientSampleId :

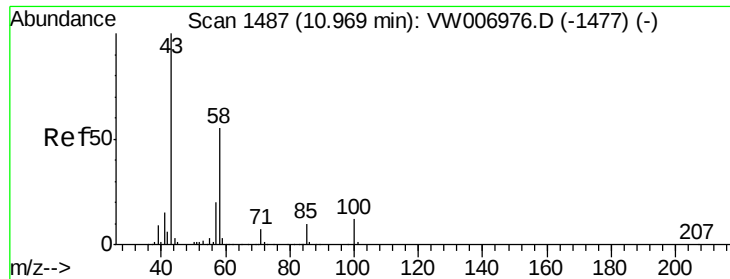
| Tot Ion | 97    | Resp  | 41745 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 7.8   | 66.4  | 99.6# |
| 85      | 10.9  | 44.1  | 66.1# |
| 99      | 0.4   | 51.7  | 77.5# |



#56  
 Ethyl methacrylate  
 Concen: 7.628 ug/l  
 RT: 10.62 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

| Tgt Ion | 69    | Resp  | 6731  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 69      | 100   |       |       |
| 41      | 61.9  | 53.4  | 80.0  |
| 39      | 17.0  | 28.2  | 42.4# |





#59

2-Hexanone

Concen: 170.163 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

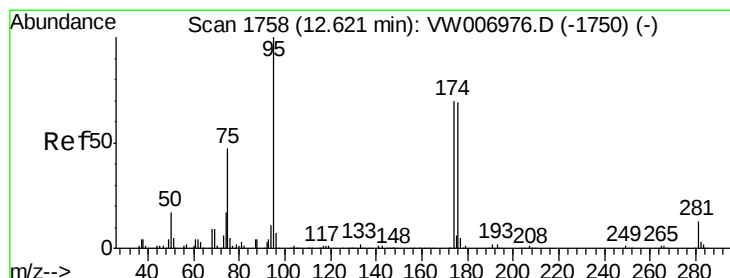
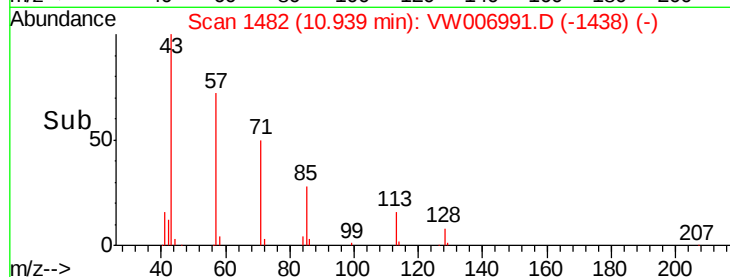
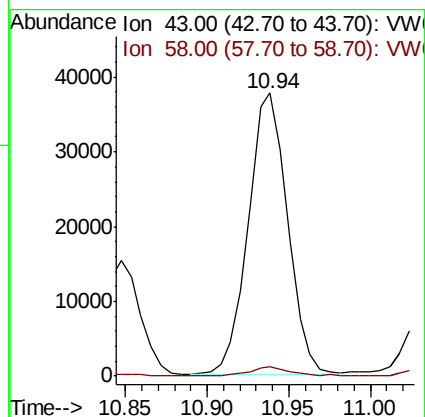
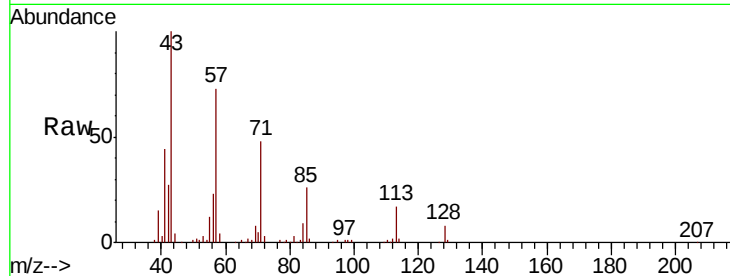
ClientSampled :

Tot Ion: 43 Resp: 63052

Ion Ratio Lower Upper

43 100

58 3.7 27.3 81.8#



#62

4-Bromofluorobenzene

Concen: 30.786 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

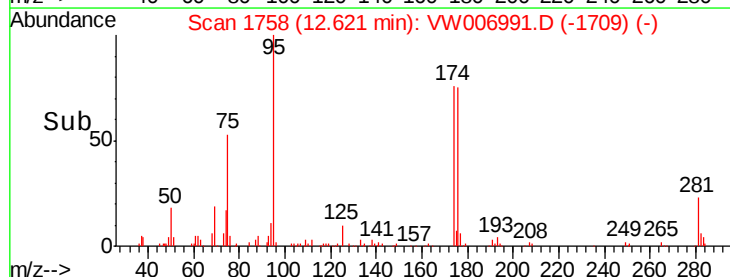
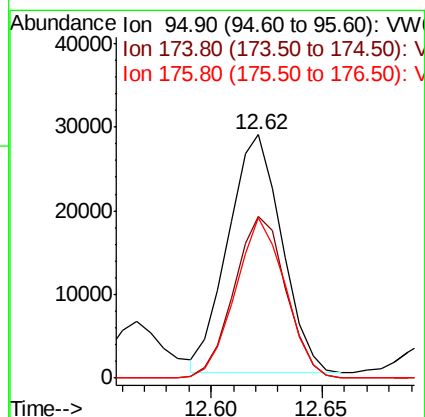
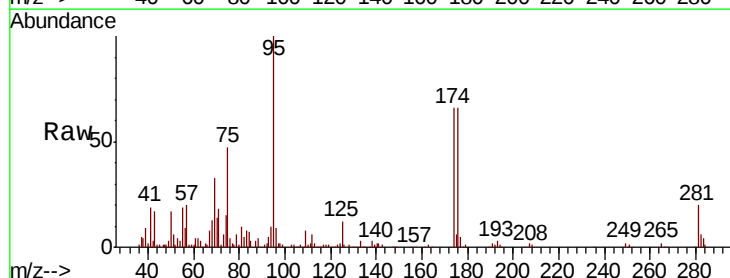
Tgt Ion: 95 Resp: 47936

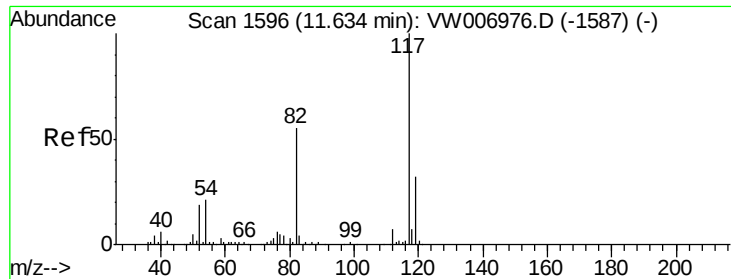
Ion Ratio Lower Upper

95 100

174 65.4 0.0 143.6

176 62.5 0.0 140.4

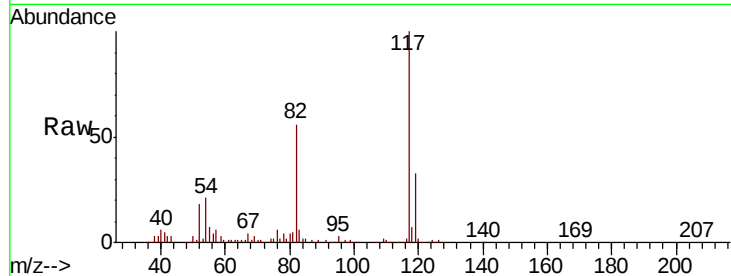




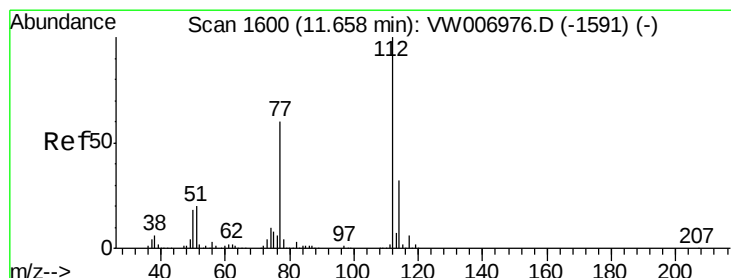
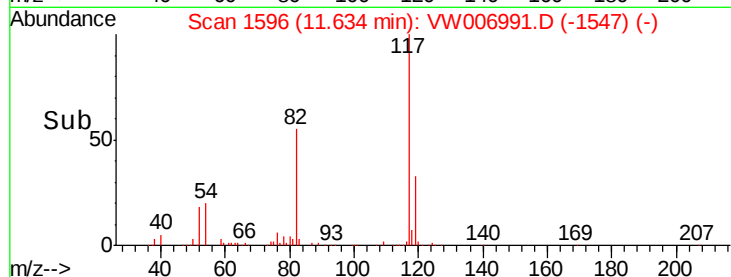
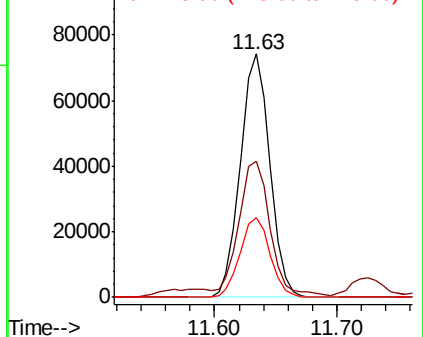
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 124002  
Ion Ratio Lower Upper  
117 100  
82 54.6 44.2 66.2  
119 32.9 25.9 38.9

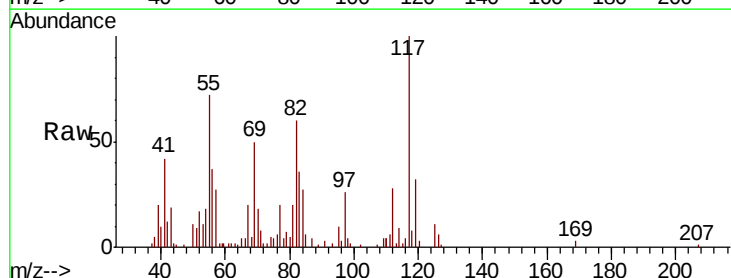


Abundance Ion 116.90 (116.60 to 117.60): V  
100000 Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

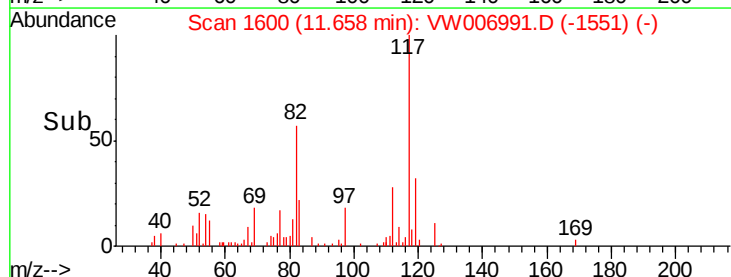
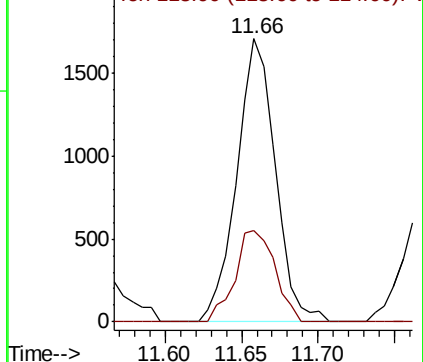


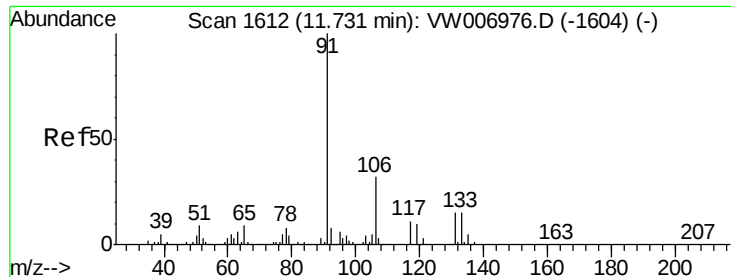
#65  
Chlorobenzene  
Concen: 1.153 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion:112 Resp: 2984  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V  
2000 Ion 113.90 (113.60 to 114.60): V

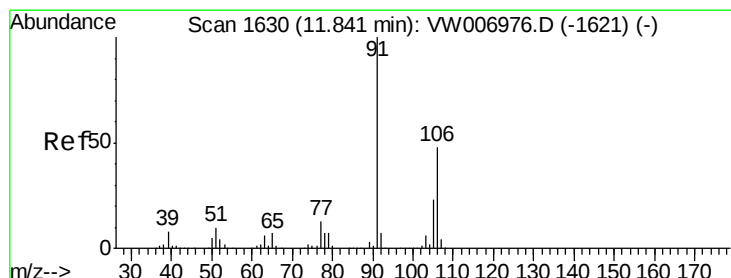
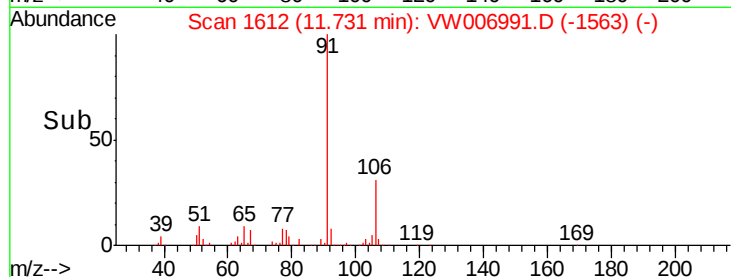
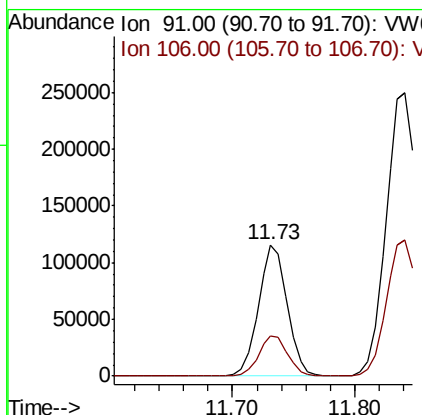
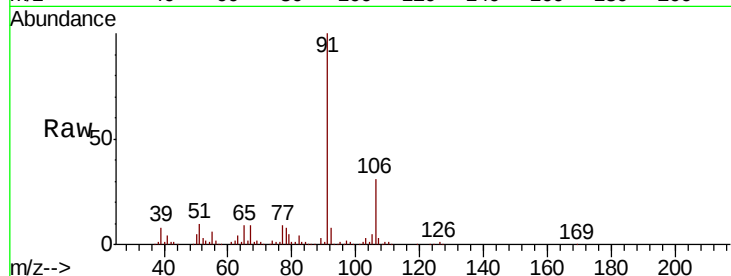




#67  
Ethyl Benzene  
Concen: 39.512 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

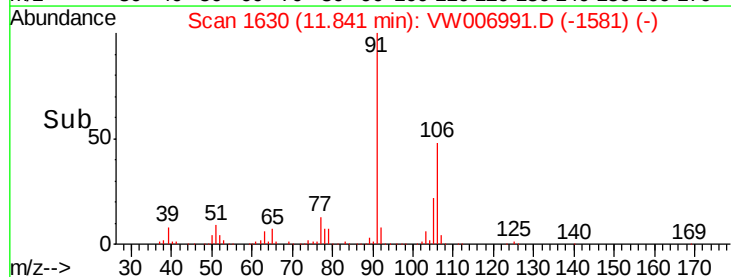
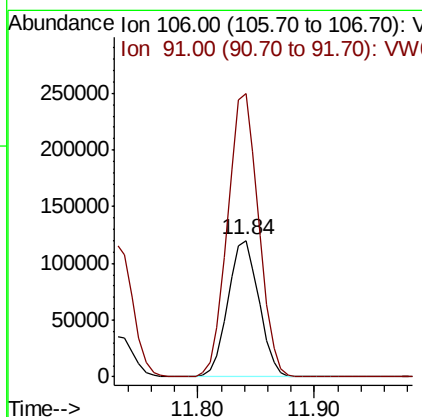
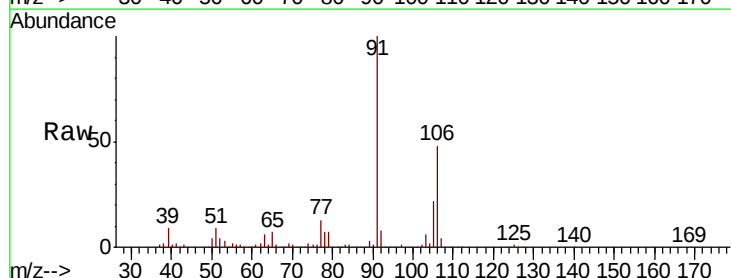
Instrument :  
MSVOA\_W  
ClientSampleId :

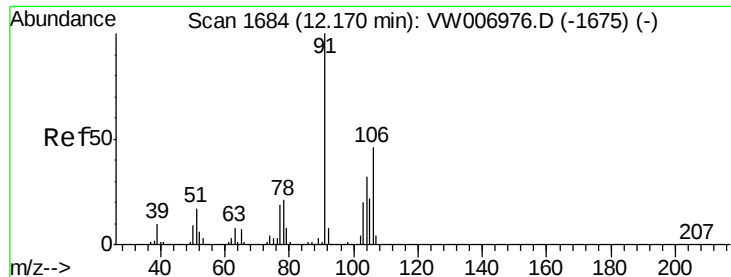
Tot Ion: 91 Resp: 187860  
Ion Ratio Lower Upper  
91 100  
106 31.0 25.4 38.2



#68  
m/p-Xylenes  
Concen: 119.233 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion: 106 Resp: 222410  
Ion Ratio Lower Upper  
106 100  
91 207.9 164.8 247.2

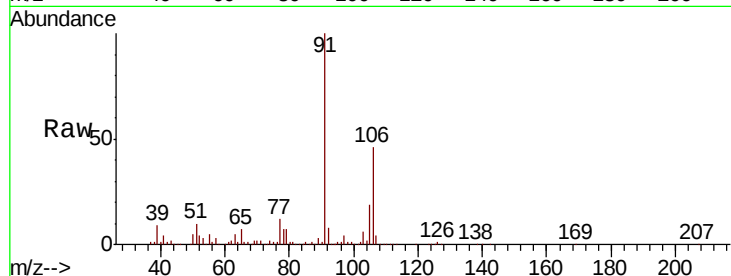




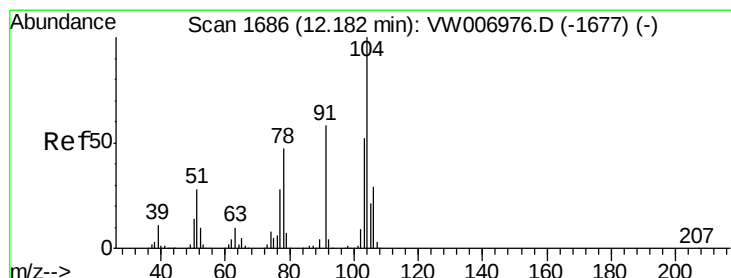
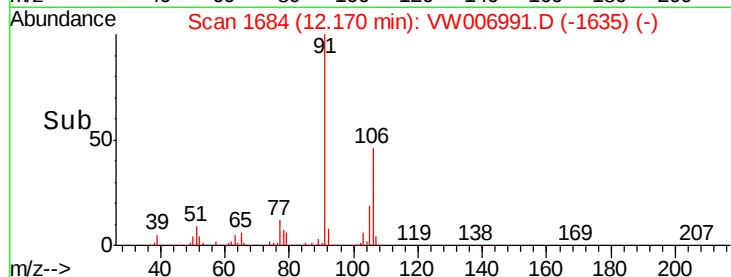
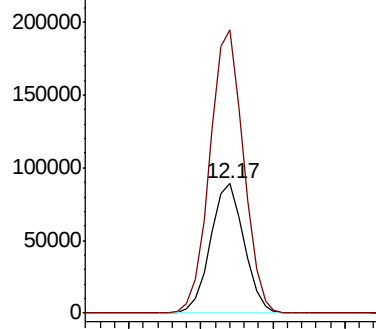
#69  
o-Xylene  
Concen: 81.417 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:106 Resp: 143202  
Ion Ratio Lower Upper  
106 100  
91 219.4 107.9 323.8

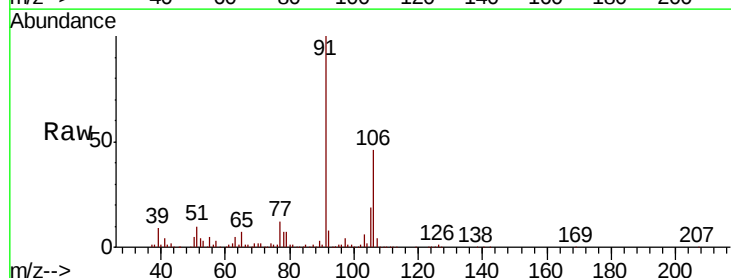


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

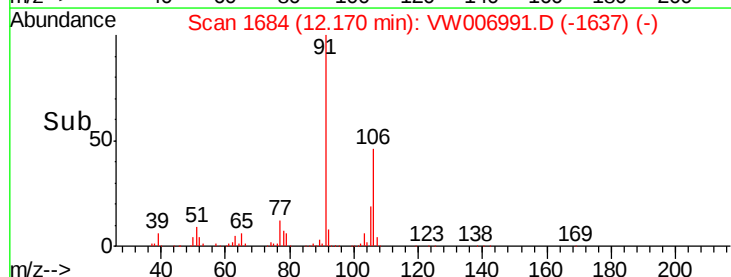
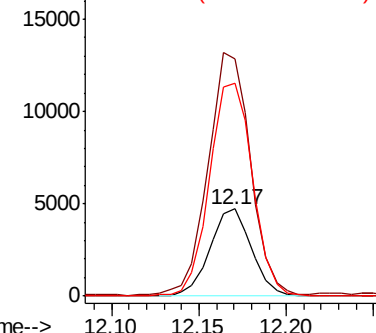


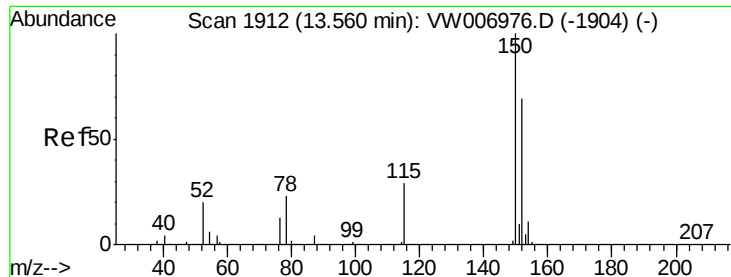
#70  
Styrene  
Concen: 2.798 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion:104 Resp: 7833  
Ion Ratio Lower Upper  
104 100  
78 283.0 41.8 62.8#  
103 252.5 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VW  
Ion 103.00 (102.70 to 103.70): V



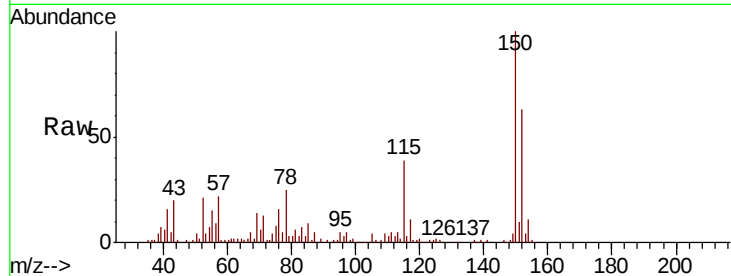


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 76.8  | 31.4  | 94.2  |
| 150     | 154.1 | 0.0   | 353.4 |

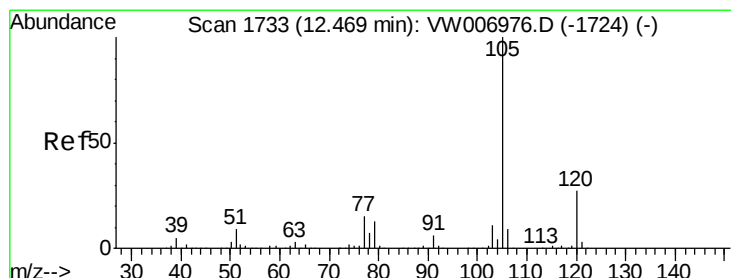
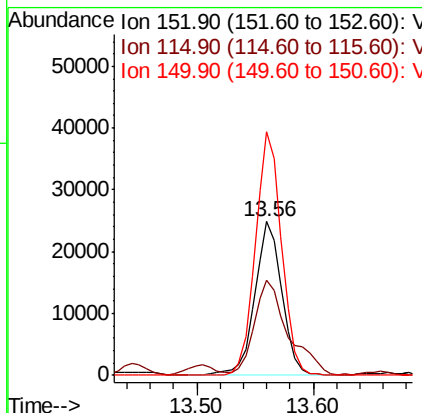
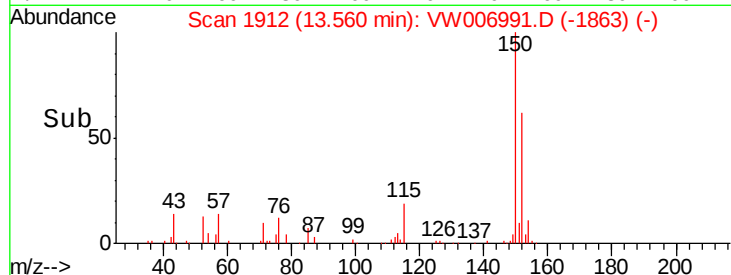


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

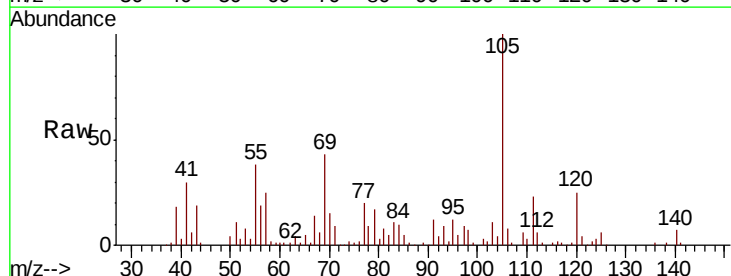
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene  
Concen: 9.550 ug/l  
RT: 12.47 min Scan# 1733  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

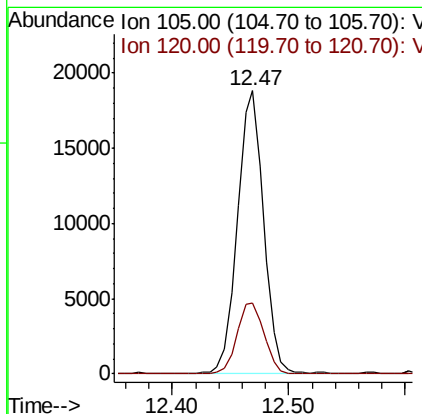
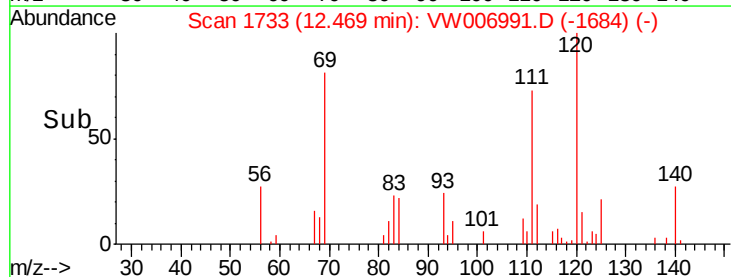
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.8  | 13.3  | 39.8  |

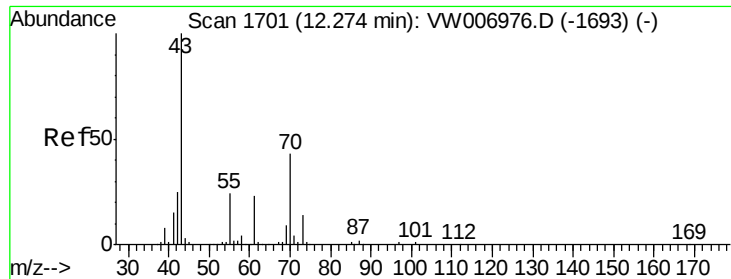


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 83.509 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 43322

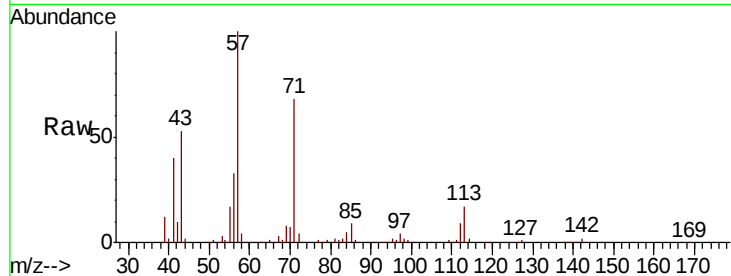
Ion Ratio Lower Upper

43 100

70 19.8 34.0 51.0#

55 0.0 19.4 29.0#

61 0.0 19.4 29.2#

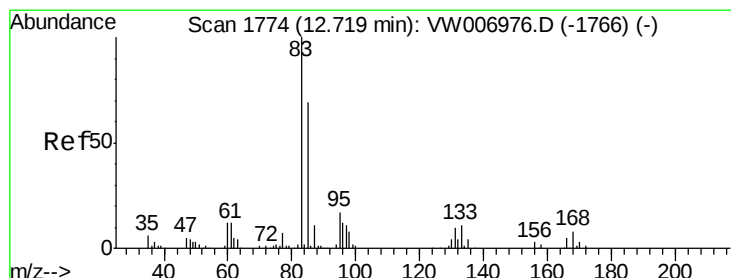
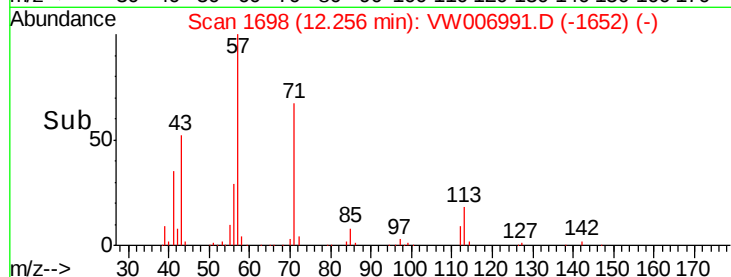
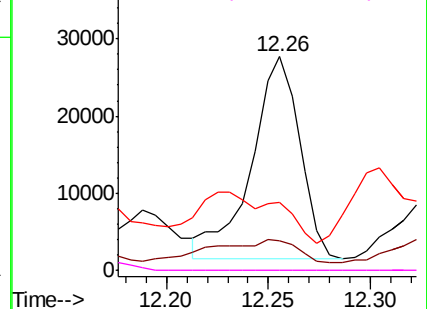


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 5.557 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

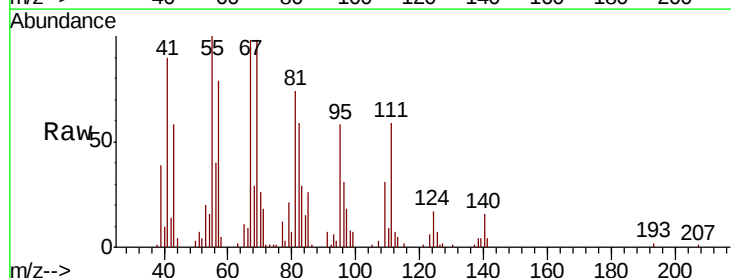
Tgt Ion: 83 Resp: 2289

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

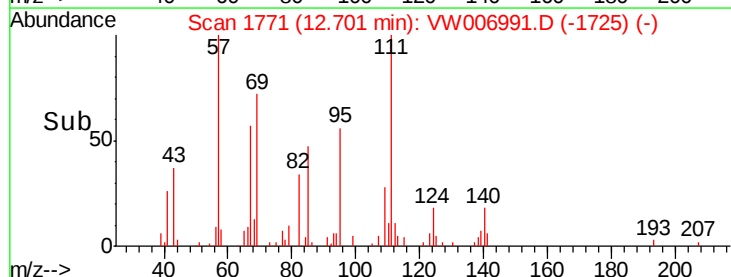
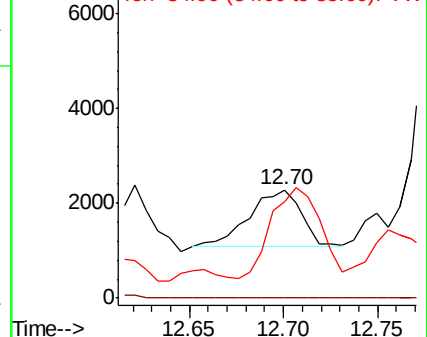
85 148.6 33.1 99.2#

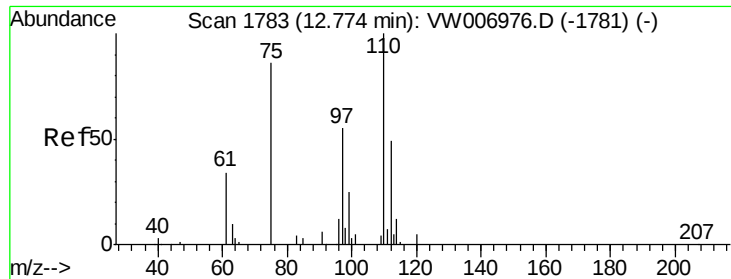


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

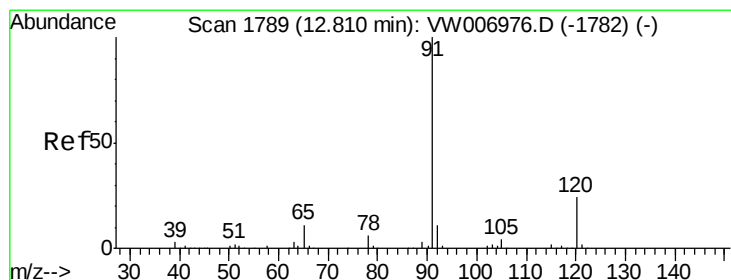
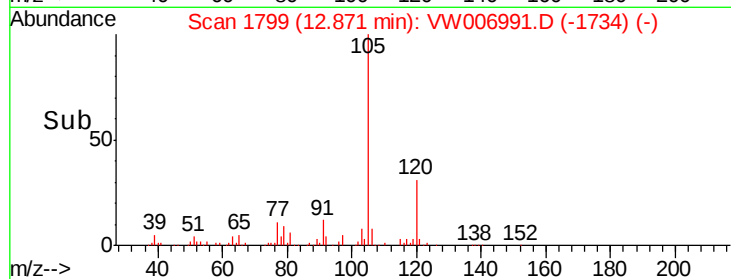
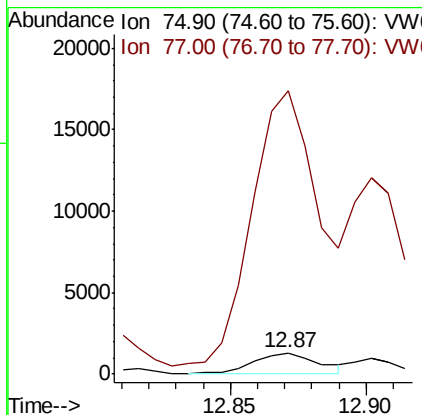
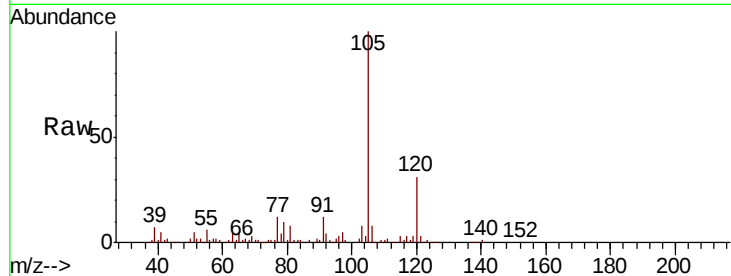




#76  
 1,2,3-Trichloropropane  
 Concen: 6.943 ug/l  
 RT: 12.87 min Scan# 1799  
 Delta R.T. 0.10 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

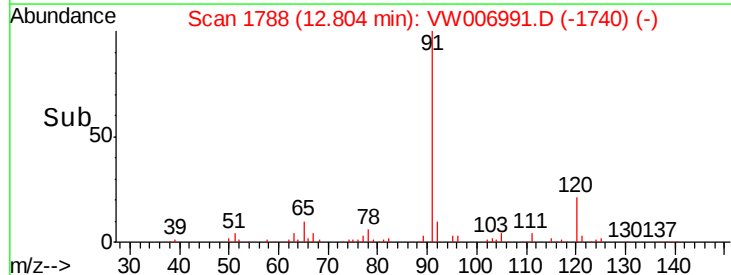
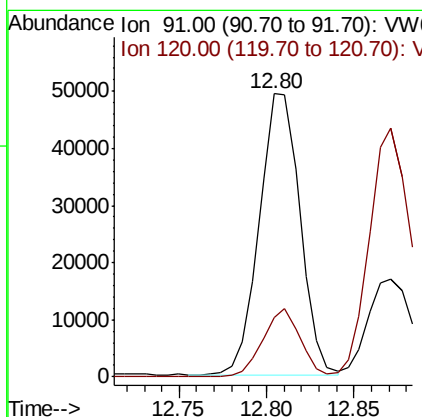
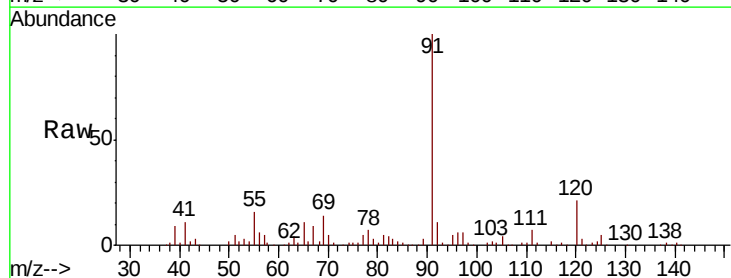
Instrument :  
 MSVOA\_W  
 ClientSampleId :

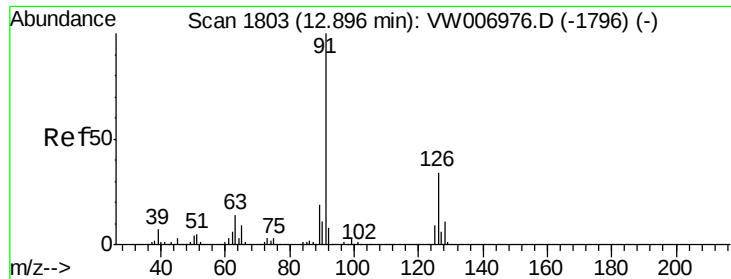
Tot Ion: 75 Resp: 2173  
 Ion Ratio Lower Upper  
 75 100  
 77 1333.6 0.0 0.0#



#78  
 n-propylbenzene  
 Concen: 21.308 ug/l  
 RT: 12.80 min Scan# 1788  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion: 91 Resp: 79891  
 Ion Ratio Lower Upper  
 91 100  
 120 22.4 11.7 35.1

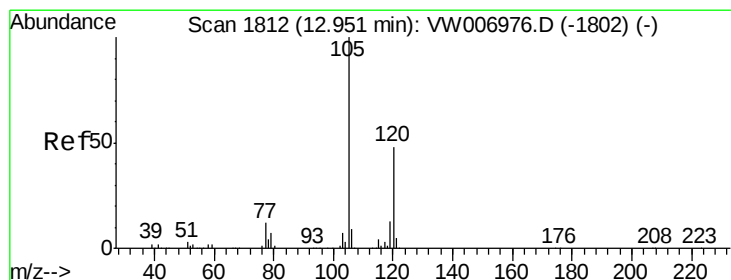
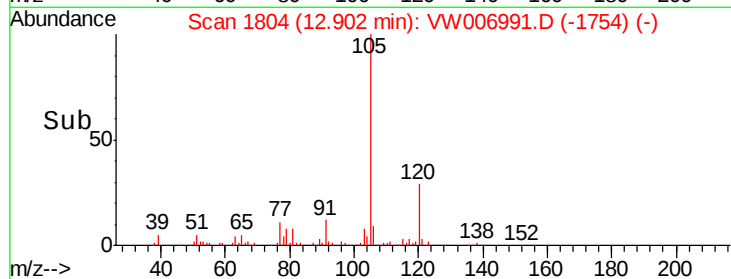
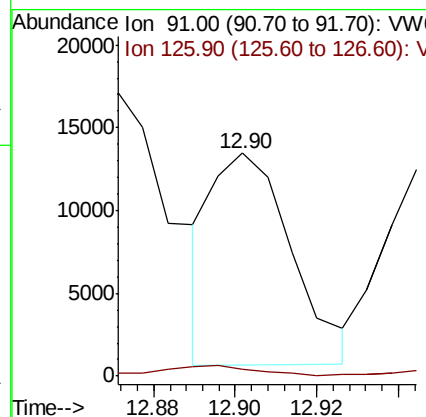
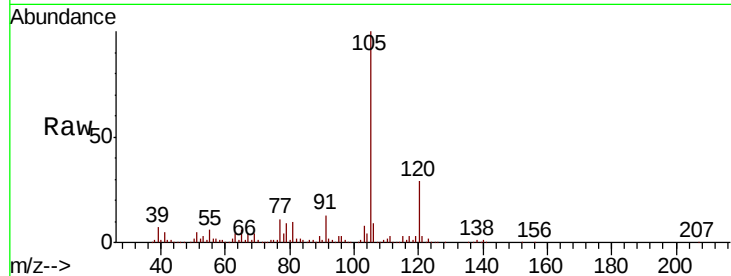




#79  
 2-Chlorotoluene  
 Concen: 8.007 ug/l  
 RT: 12.90 min Scan# 1804  
 Delta R.T. 0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

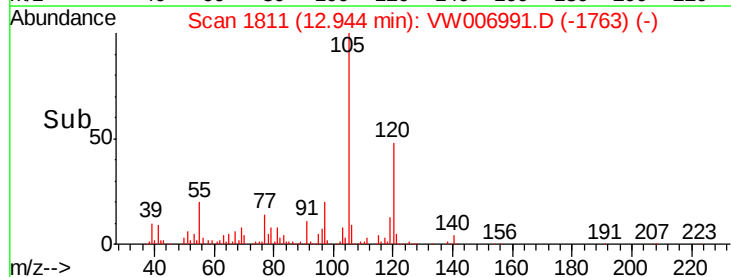
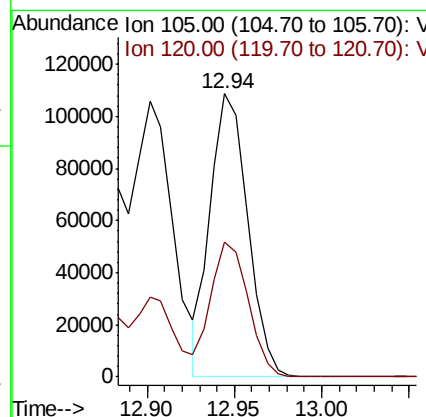
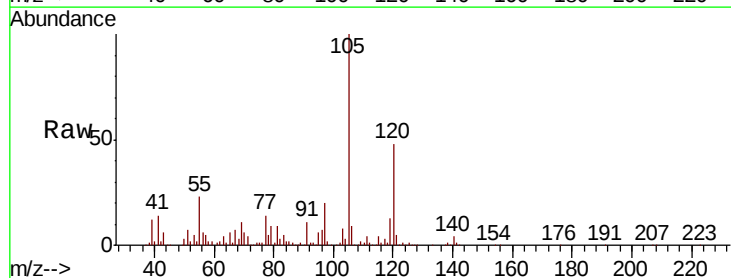
Instrument :  
 MSVOA\_W  
 ClientSampleId :

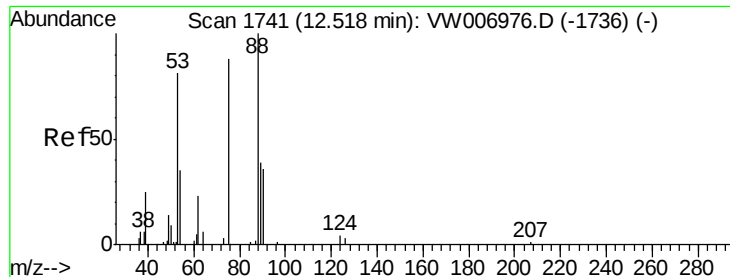
Tot Ion: 91 Resp: 17311  
 Ion Ratio Lower Upper  
 91 100  
 126 7.2 16.7 50.0#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 60.399 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion: 105 Resp: 161668  
 Ion Ratio Lower Upper  
 105 100  
 120 47.9 23.8 71.2





#81

trans-1,4-Dichloro-2-butene

Concen: 173.527 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

ClientSampleId :

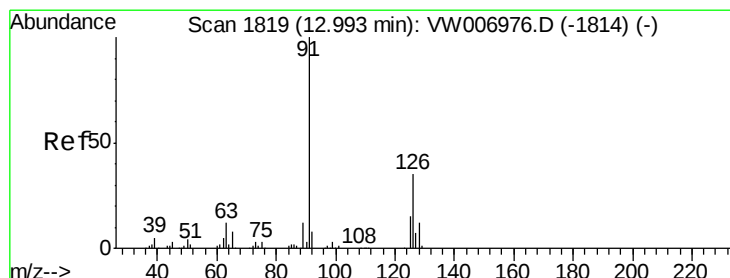
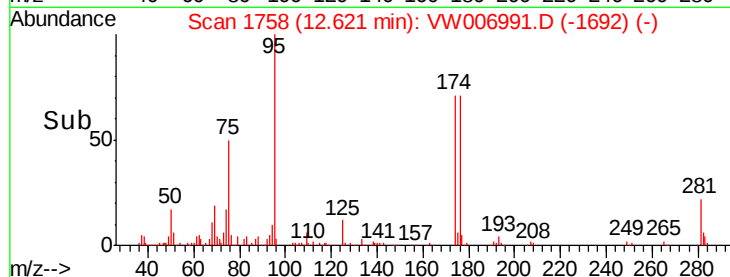
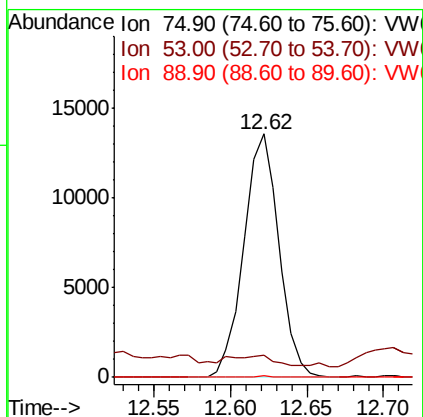
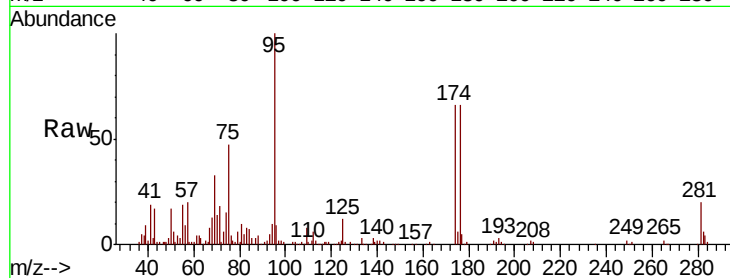
Tot Ion: 75 Resp: 21631

Ion Ratio Lower Upper

75 100

53 4.7 77.6 116.4#

89 0.3 39.3 58.9#



#82

4-Chlorotoluene

Concen: 7.290 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.05 min

Lab File: VW006991.D

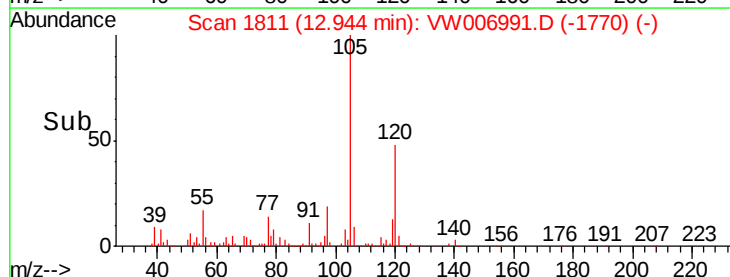
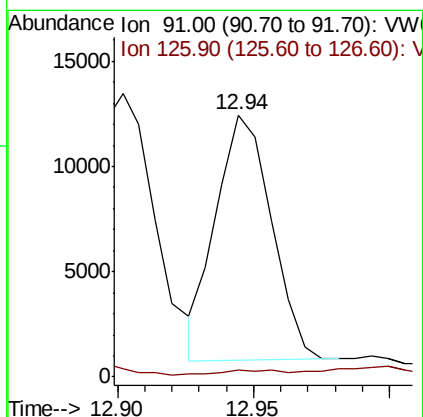
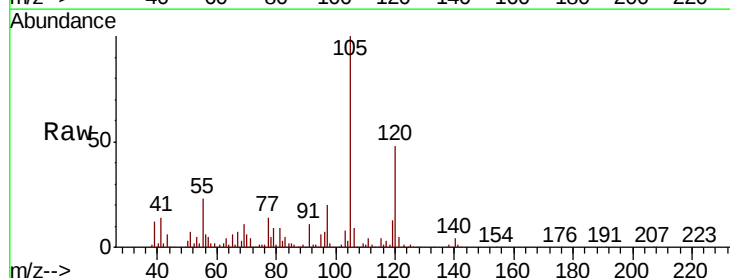
Acq: 20 Nov 2018 22:39

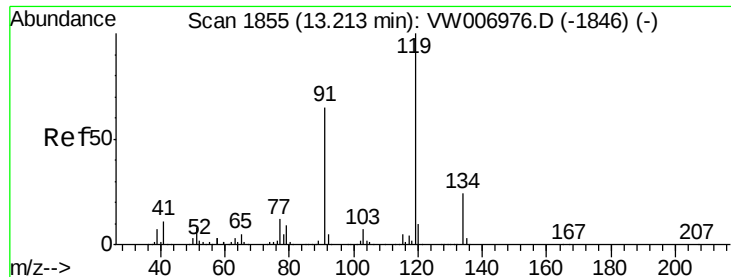
Tgt Ion: 91 Resp: 16539

Ion Ratio Lower Upper

91 100

126 3.5 16.6 49.7#

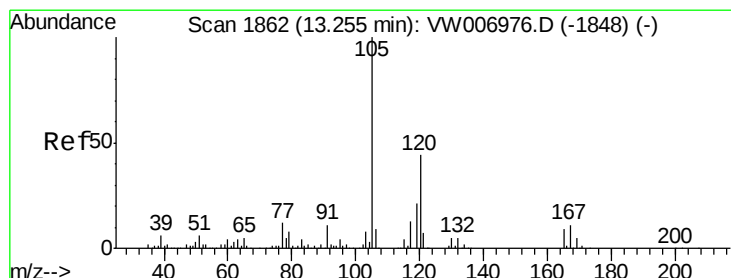
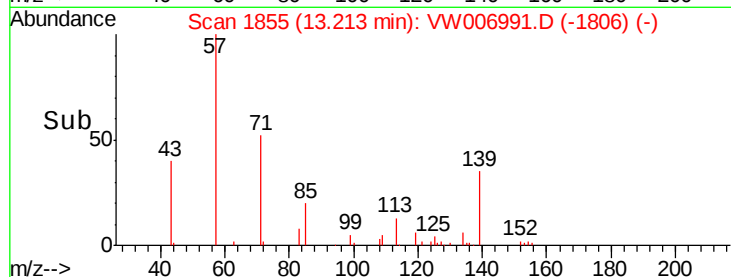
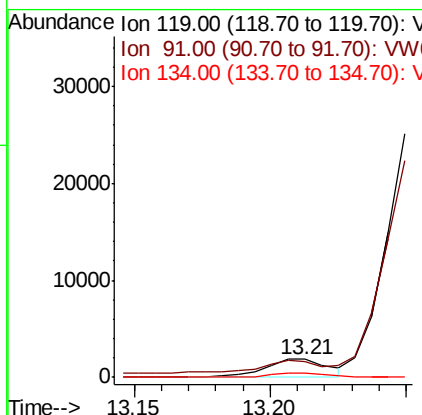
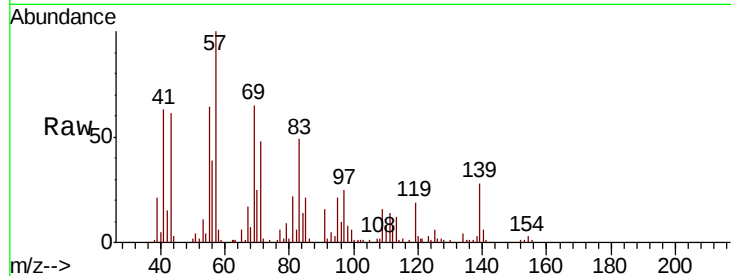




#83  
tert-Butylbenzene  
Concen: 1.307 ug/l  
RT: 13.21 min Scan# 1855  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

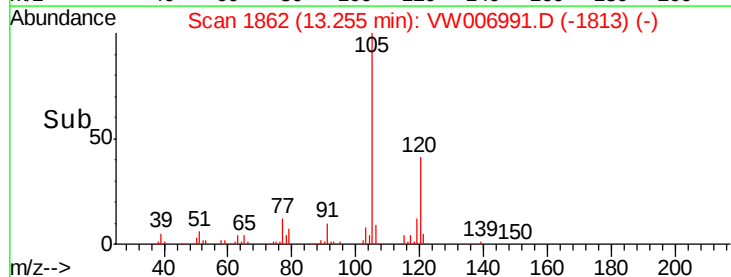
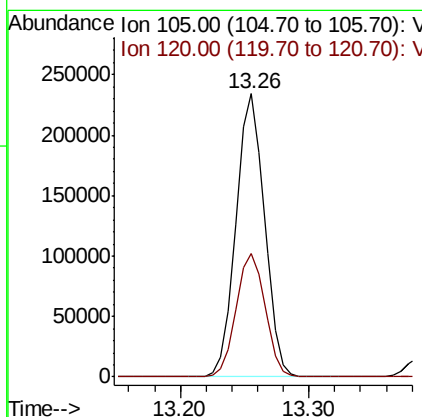
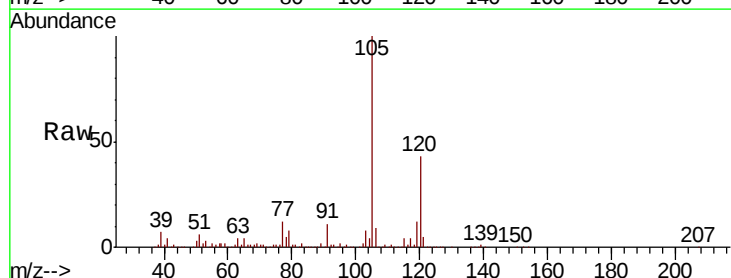
Instrument :  
MSVOA\_W  
ClientSampleId :

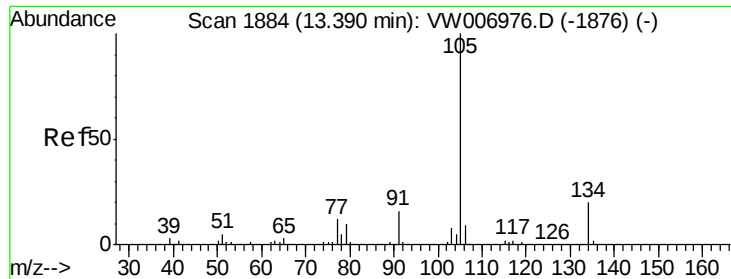
Tot Ion:119 Resp: 3029  
Ion Ratio Lower Upper  
119 100  
91 66.7 33.5 100.5  
134 20.3 12.6 37.8



#84  
1,2,4-Trimethylbenzene  
Concen: 134.687 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW006991.D  
Acq: 20 Nov 2018 22:39

Tgt Ion:105 Resp: 359180  
Ion Ratio Lower Upper  
105 100  
120 44.3 21.8 65.3

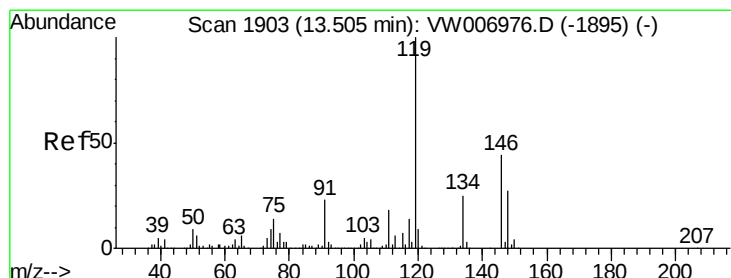
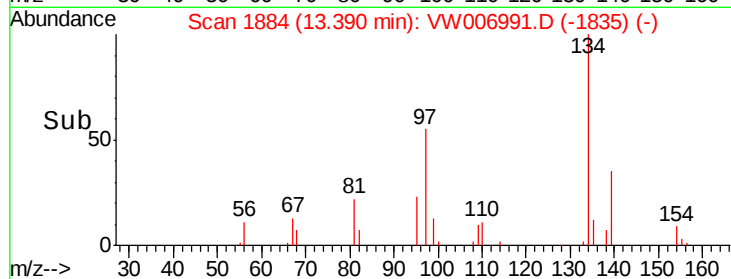
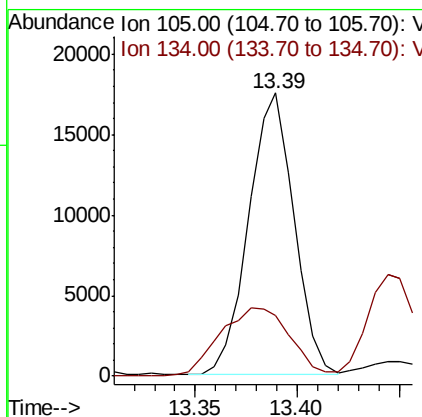
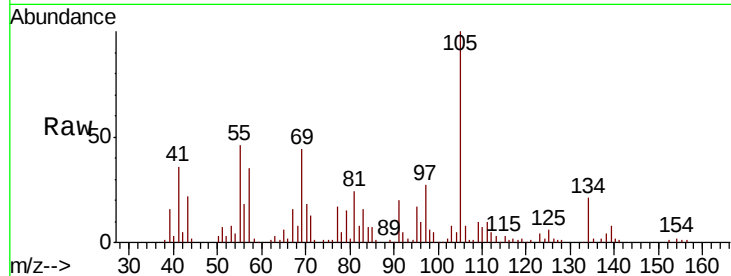




#85  
 sec-Butylbenzene  
 Concen: 8.189 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. -0.00 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

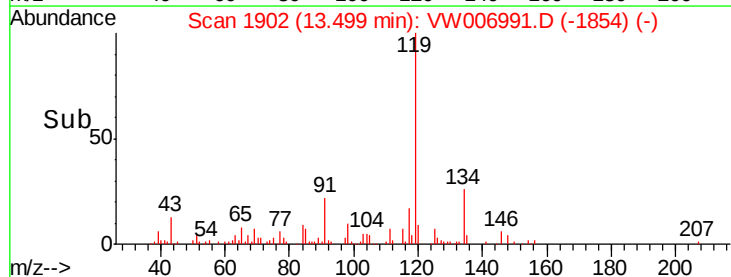
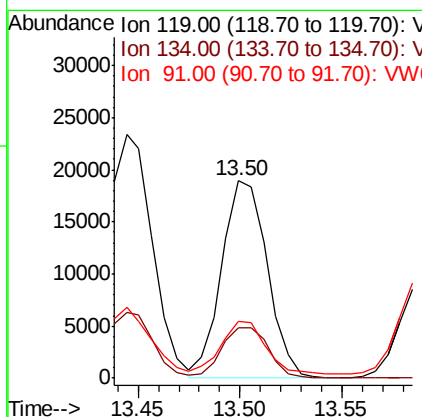
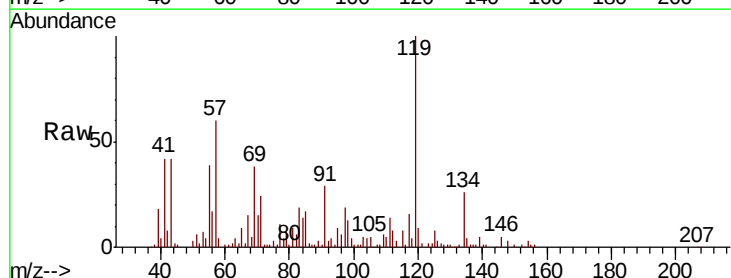
Instrument :  
 MSVOA\_W  
 ClientSampleId :

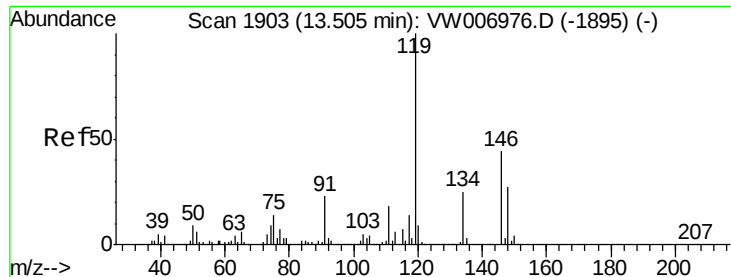
Tot Ion:105 Resp: 26811  
 Ion Ratio Lower Upper  
 105 100  
 134 37.6 9.8 29.3#



#86  
 p-Isopropyltoluene  
 Concen: 10.083 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion:119 Resp: 29123  
 Ion Ratio Lower Upper  
 119 100  
 134 26.7 12.8 38.3  
 91 26.6 12.2 36.6

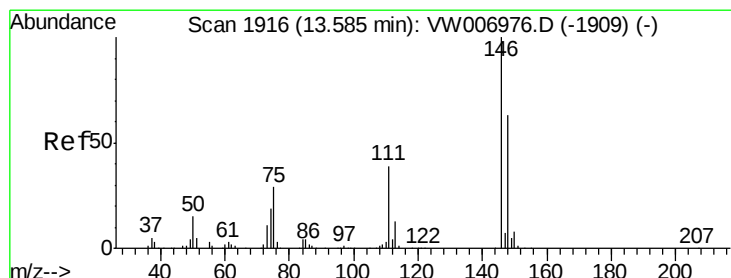
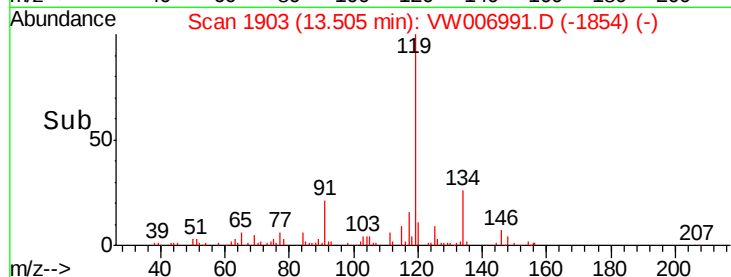
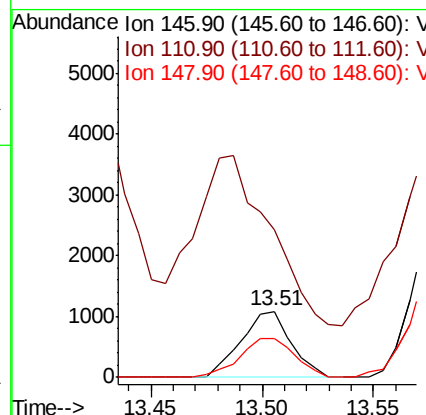
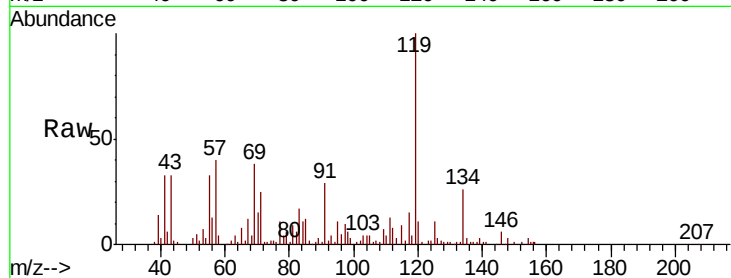




#87  
 1,3-Dichlorobenzene  
 Concen: 1.263 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

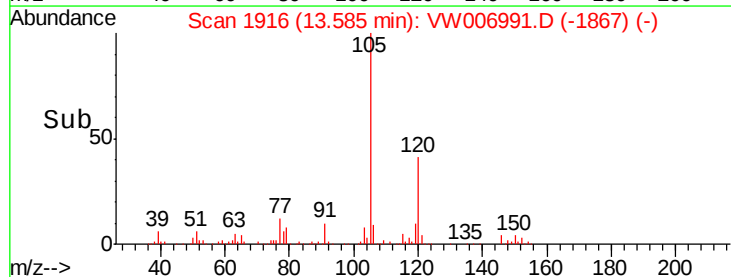
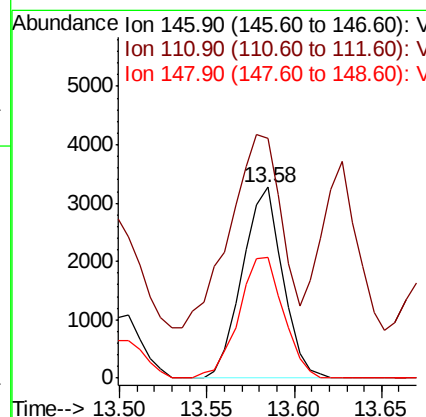
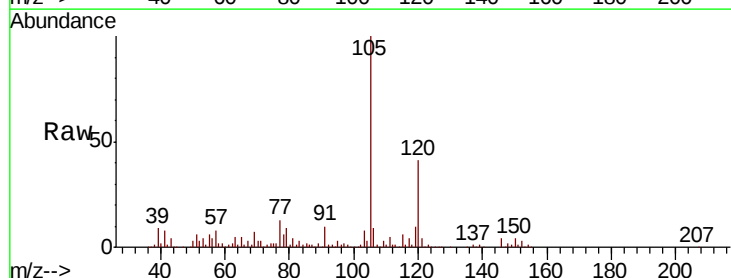
Instrument :  
 MSVOA\_W  
 ClientSampleId :

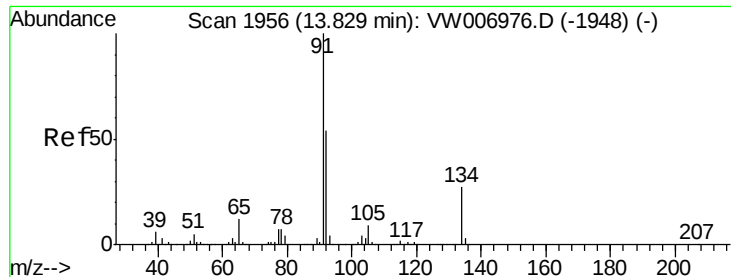
Tot Ion:146 Resp: 1714  
 Ion Ratio Lower Upper  
 146 100  
 111 375.3 21.1 63.3#  
 148 64.2 31.6 94.8



#88  
 1,4-Dichlorobenzene  
 Concen: 3.874 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion:146 Resp: 5242  
 Ion Ratio Lower Upper  
 146 100  
 111 127.9 20.6 61.8#  
 148 70.0 32.3 96.8





#89

n-Butylbenzene

Concen: 7.549 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

ClientSampled :

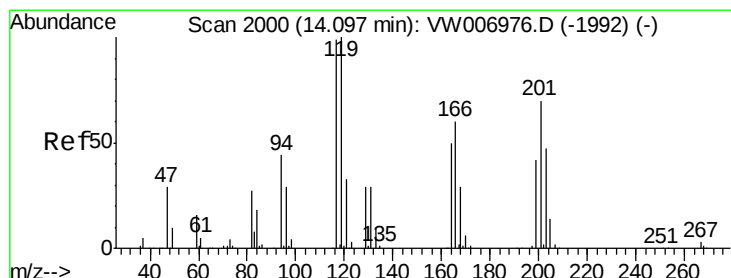
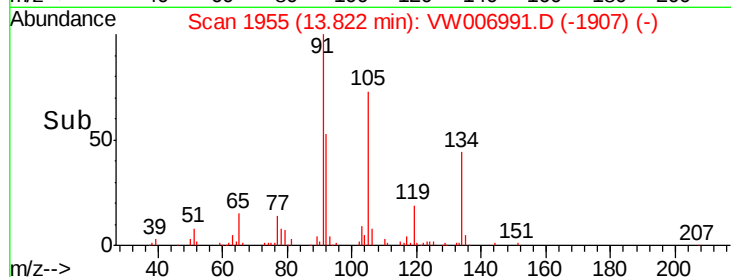
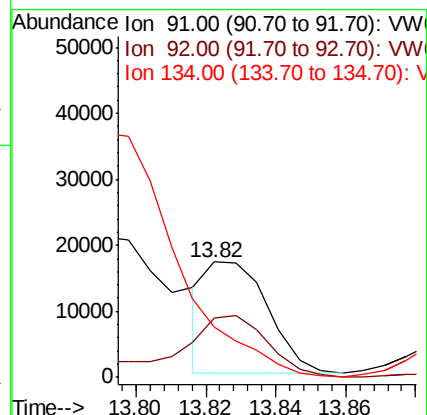
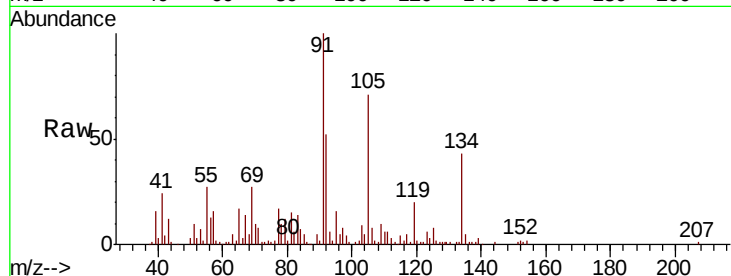
Tot Ion: 91 Resp: 20517

Ion Ratio Lower Upper

91 100

92 86.4 26.8 80.4#

134 0.0 13.3 39.8#



#90

Hexachloroethane

Concen: 31.434 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW006991.D

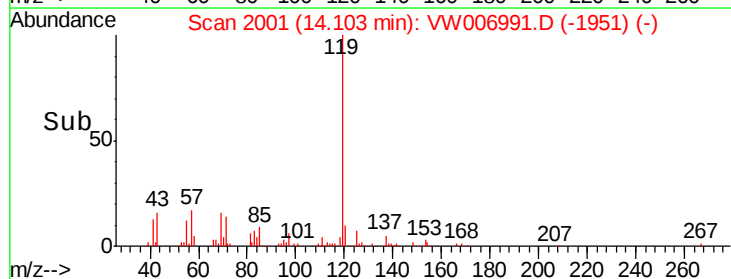
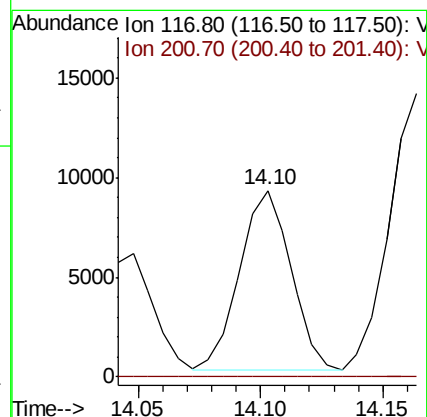
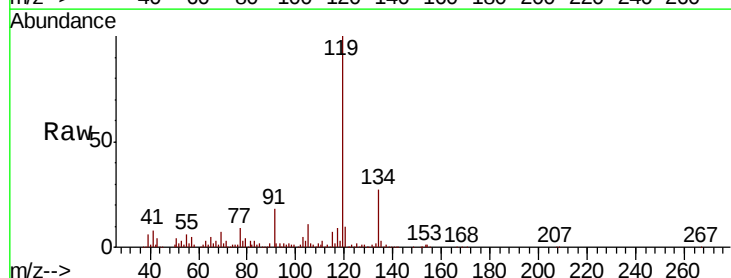
Acq: 20 Nov 2018 22:39

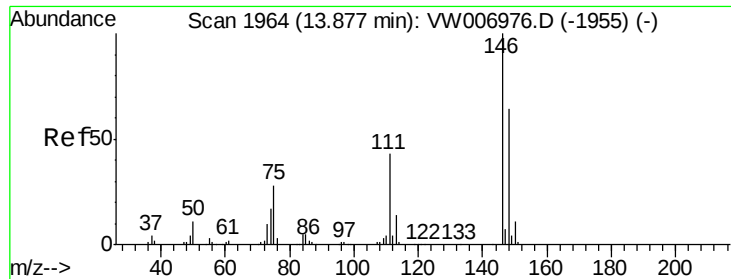
Tgt Ion: 117 Resp: 13255

Ion Ratio Lower Upper

117 100

201 0.0 35.9 107.5#





#91

1,2-Dichlorobenzene

Concen: 2.343 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.01 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

Instrument :

MSVOA\_W

ClientSampled :

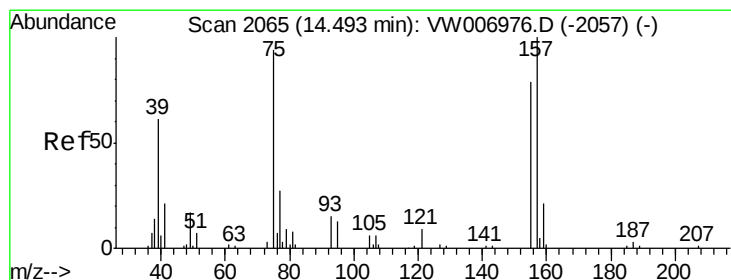
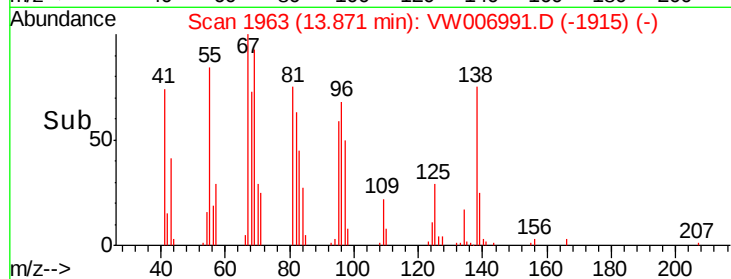
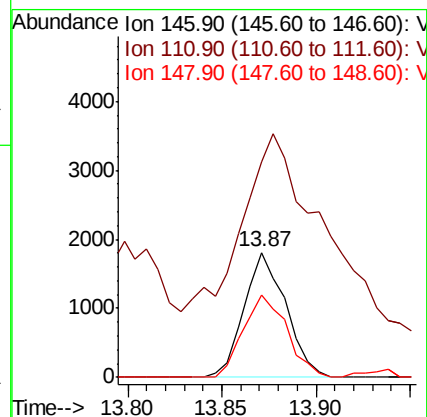
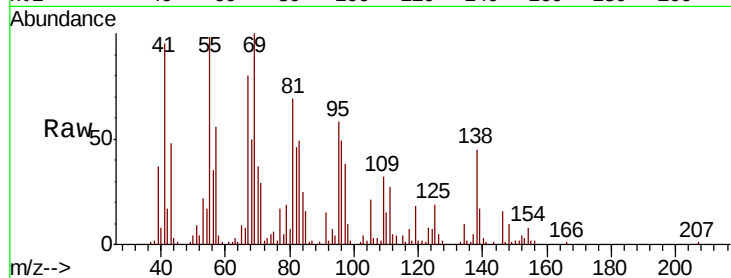
Tot Ion:146 Resp: 2787

Ion Ratio Lower Upper

146 100

111 318.6 21.9 65.7#

148 68.5 32.2 96.6



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.345 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.01 min

Lab File: VW006991.D

Acq: 20 Nov 2018 22:39

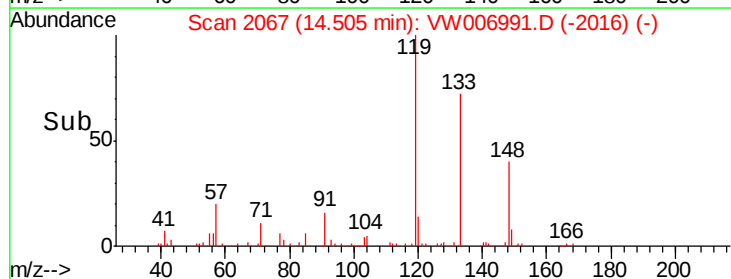
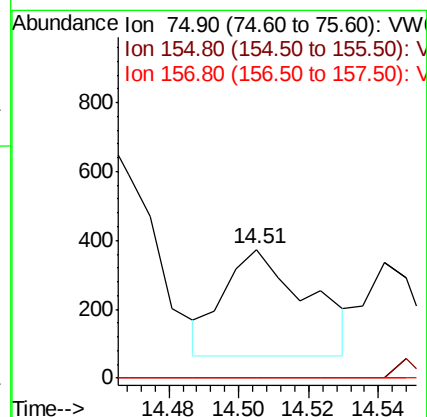
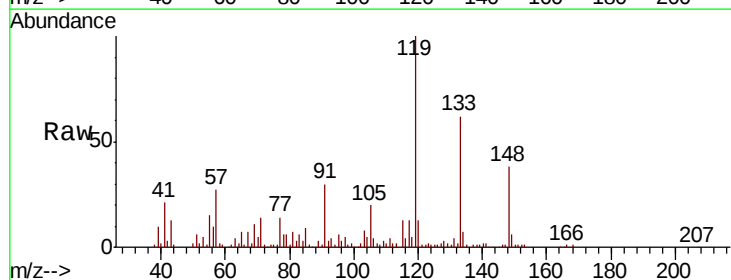
Tgt Ion: 75 Resp: 511

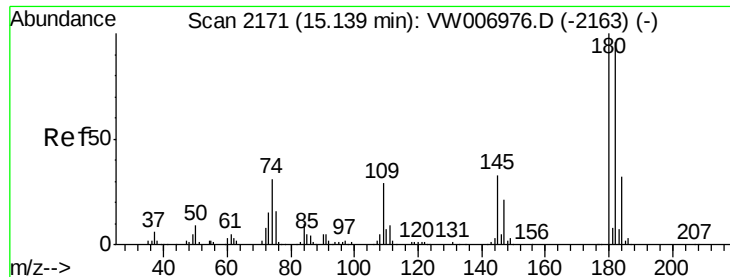
Ion Ratio Lower Upper

75 100

155 0.0 42.6 127.8#

157 0.0 55.0 165.0#

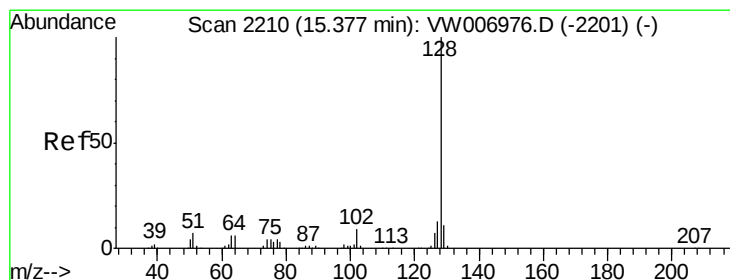
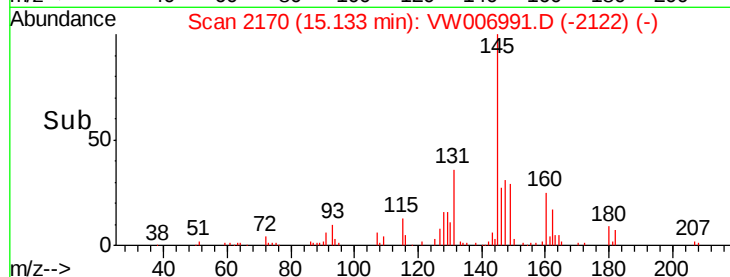
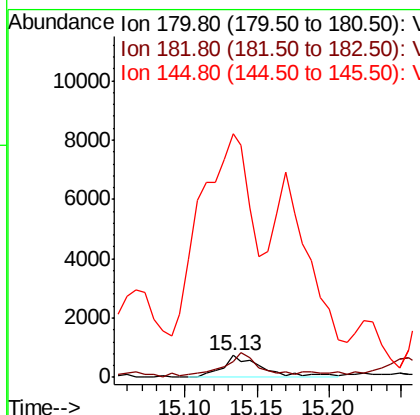
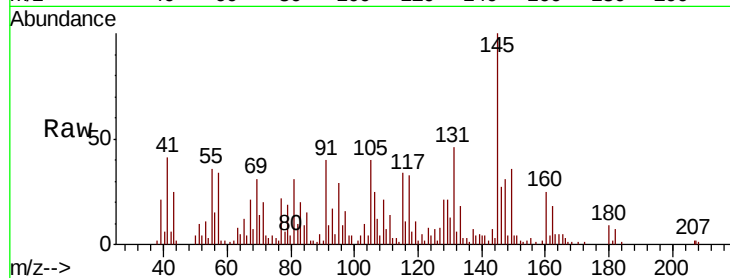




#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.860 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion:180 Resp: 1459  
 Ion Ratio Lower Upper  
 180 100  
 182 108.2 47.1 141.3  
 145 1435.8 16.5 49.5#



#95  
 Naphthalene  
 Concen: 49.047 ug/l  
 RT: 15.37 min Scan# 2209  
 Delta R.T. -0.01 min  
 Lab File: VW006991.D  
 Acq: 20 Nov 2018 22:39

Tgt Ion:128 Resp: 69820  
 Ion Ratio Lower Upper  
 128 100  
 127 14.6 10.5 15.7  
 129 13.6 8.7 13.1#

