

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\  
 Data File : VW007795.D  
 Acq On : 21 Dec 2018 14:53  
 Operator : SY/AP  
 Sample : J6386-16RE  
 Misc : 6.18G/5ML/MSVOA W/SOIL  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 21 16:51:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 10658    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 23112    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 18202    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 5538     | 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   | 9714     | 83.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 166.32% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 7052     | 50.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 19131    | 35.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.98%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 10369    | 50.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.00% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|-------------------------------|-------|------|----------|----------|--------|--------|
| 8) Diethyl Ether              | 3.68  | 74   | 82       | 1.736    | ug/l # | 10     |
| 16) Acetone                   | 4.12  | 43   | 12466    | 569.874  | ug/l   | 93     |
| 18) Methyl Acetate            | 4.65  | 43   | 147      | 2.826    | ug/l # | 46     |
| 20) Methylene Chloride        | 4.90  | 84   | 1270     | 6.069    | ug/l # | 86     |
| 25) 2-Butanone                | 7.17  | 43   | 479      | 18.695   | ug/l # | 44     |
| 26) 2,2-Dichloropropane       | 7.14  | 77   | 252      | 1.813    | ug/l # | 53     |
| 31) Cyclohexane               | 7.95  | 56   | 272      | 1.564    | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.94  | 75   | 723      | 3.241    | ug/l # | 46     |
| 37) Ethyl Acetate             | 7.17  | 43   | 479      | 6.222    | ug/l # | 68     |
| 38) Carbon Tetrachloride      | 7.94  | 117  | 1201     | 4.572    | ug/l # | 25     |
| 46) Dibromomethane            | 9.25  | 93   | 88       | 1.082    | ug/l   | 85     |
| 48) Methyl methacrylate       | 9.46  | 41   | 323      | 4.195    | ug/l # | 53     |
| 51) 4-Methyl-2-Pentanone      | 10.13 | 43   | 464      | 6.366    | ug/l   | 94     |
| 52) Toluene                   | 10.38 | 92   | 32822    | 82.182   | ug/l   | 99     |
| 53) t-1,3-Dichloropropene     | 10.39 | 75   | 393      | 1.848    | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane     | 10.80 | 97   | 188      | 1.677    | ug/l # | 10     |
| 56) Ethyl methacrylate        | 10.65 | 69   | 444      | 3.353    | ug/l # | 83     |
| 59) 2-Hexanone                | 10.82 | 43   | 182      | 3.550    | ug/l   | 84     |
| 60) Dibromochloromethane      | 11.03 | 129  | 276      | 1.860    | ug/l   | 76     |
| 61) 1,2-Dibromoethane         | 11.43 | 107  | 259      | 2.282    | ug/l   | 89     |
| 65) Chlorobenzene             | 11.55 | 112  | 4328     | 10.986   | ug/l # | 64     |
| 67) Ethyl Benzene             | 11.73 | 91   | 10440    | 15.443   | ug/l   | 93     |
| 68) m/p-Xylenes               | 11.84 | 106  | 26788    | 102.147  | ug/l   | 95     |
| 69) o-Xylene                  | 12.17 | 106  | 8418     | 34.244   | ug/l   | 95     |
| 70) Styrene                   | 12.17 | 104  | 945      | 2.339    | ug/l # | 1      |
| 71) Bromoform                 | 12.33 | 173  | 679      | 9.292    | ug/l # | 29     |
| 73) Isopropylbenzene          | 12.48 | 105  | 4022     | 9.608    | ug/l   | 76     |
| 74) N-amyl acetate            | 12.29 | 43   | 180      | 2.482    | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane | 12.68 | 83   | 19779    | 315.133  | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane    | 12.88 | 75   | 2469     | 57.682   | ug/l # | 100    |
| 77) Bromobenzene              | 12.90 | 156  | 141038   | 1470.139 | ug/l # | 1      |
| 78) n-propylbenzene           | 13.01 | 91   | 766      | 1.572    | ug/l   | 89     |
| 79) 2-Chlorotoluene           | 12.87 | 91   | 622      | 2.191    | ug/l # | 1      |
| 80) 1,3,5-Trimethylbenzene    | 12.95 | 105  | 3453     | 9.563    | ug/l   | 85     |

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 ALS Vial : 57 Sample Multiplier: 1

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 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 21 16:51:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

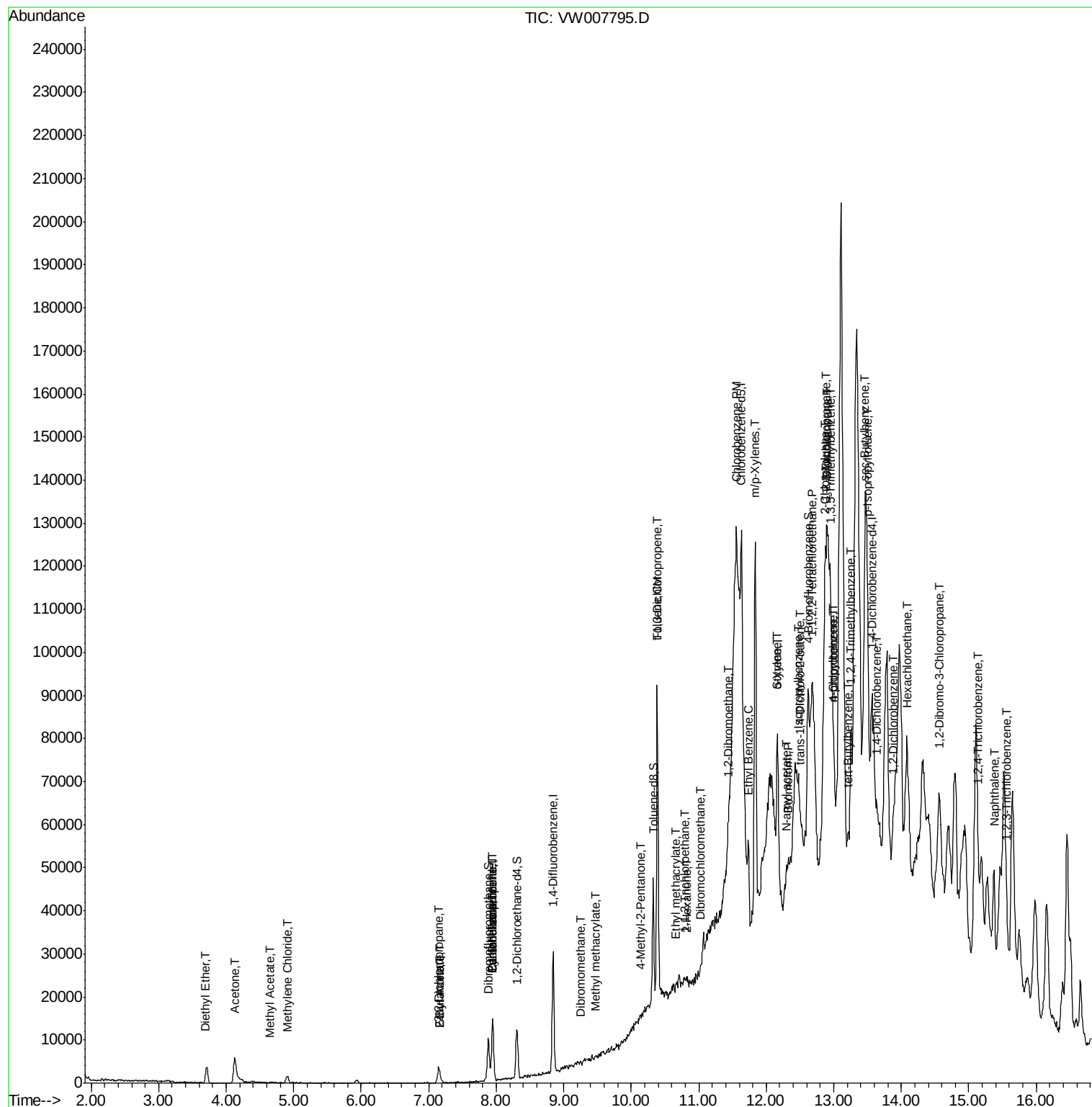
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 171      | 8.386  | ug/l # | 9        |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 766      | 2.534  | ug/l # | 42       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 4422     | 13.957 | ug/l # | 38       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 14009    | 38.449 | ug/l   | 94       |
| 85) sec-Butylbenzene           | 13.46 | 105  | 8313     | 19.039 | ug/l # | 56       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 3518     | 8.861  | ug/l # | 49       |
| 88) 1,4-Dichlorobenzene        | 13.63 | 146  | 432      | 2.267  | ug/l # | 36       |
| 90) Hexachloroethane           | 14.09 | 117  | 315      | 4.519  | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 291      | 1.706  | ug/l # | 41       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.56 | 75   | 434      | 33.671 | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 15.14 | 180  | 1001     | 8.456  | ug/l   | 88       |
| 95) Naphthalene                | 15.38 | 128  | 11152    | 50.953 | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 251      | 2.477  | ug/l # | 63       |

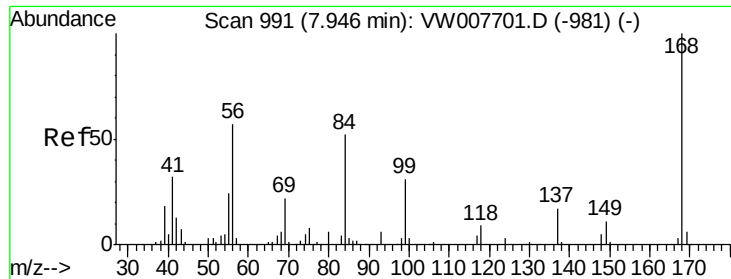
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122218\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

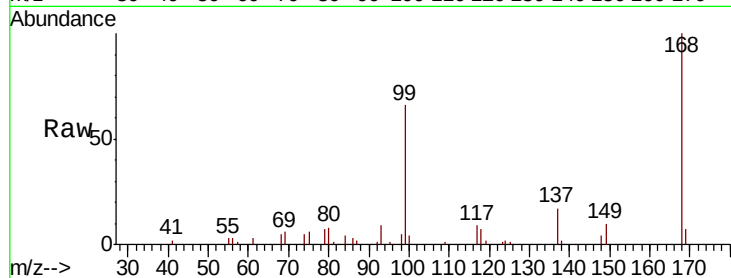
ClientSampled :

Tot Ion:168 Resp: 10658

Ion Ratio Lower Upper

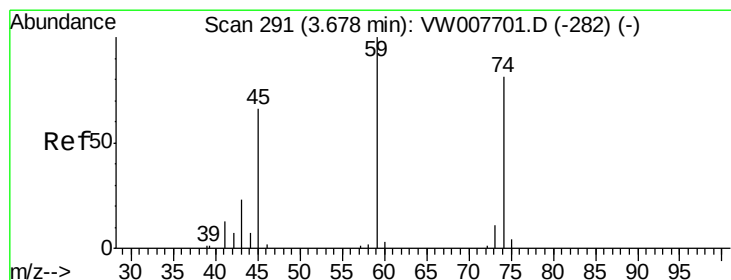
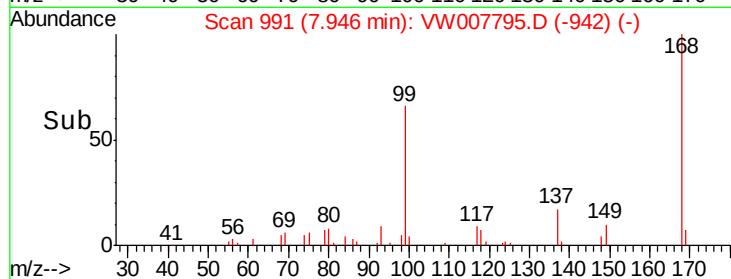
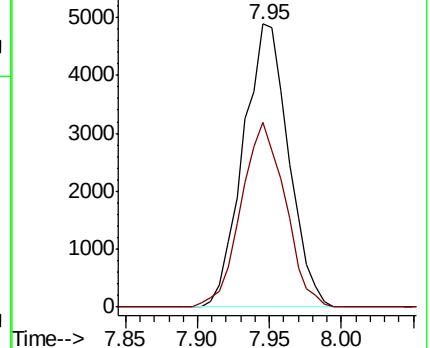
168 100

99 65.5 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.736 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW007795.D

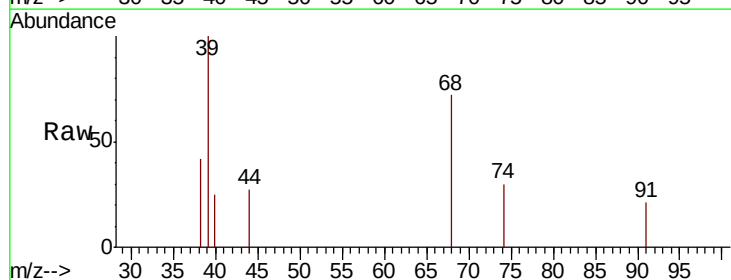
Acq: 21 Dec 2018 14:53

Tgt Ion: 74 Resp: 82

Ion Ratio Lower Upper

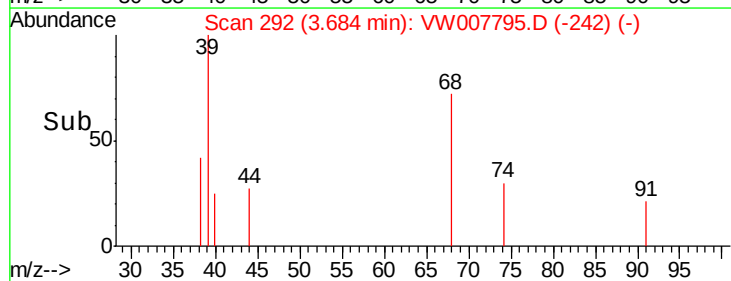
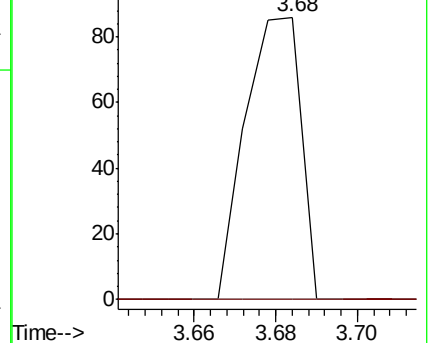
74 100

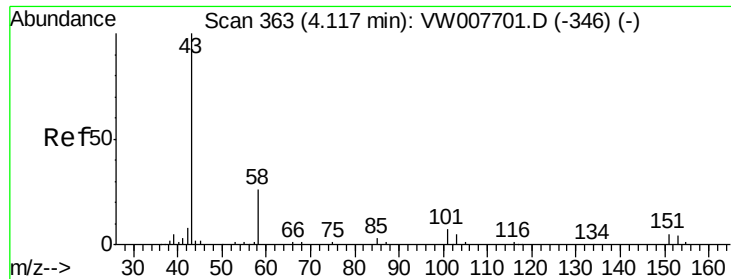
45 0.0 39.4 118.1#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 569.874 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

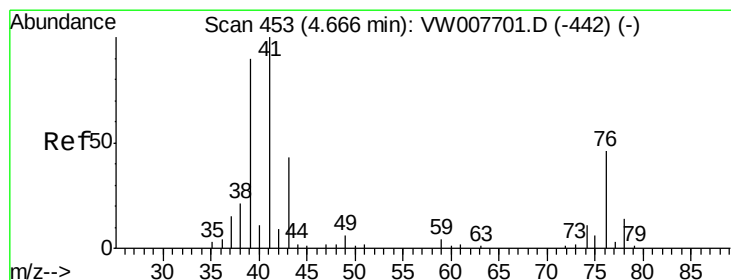
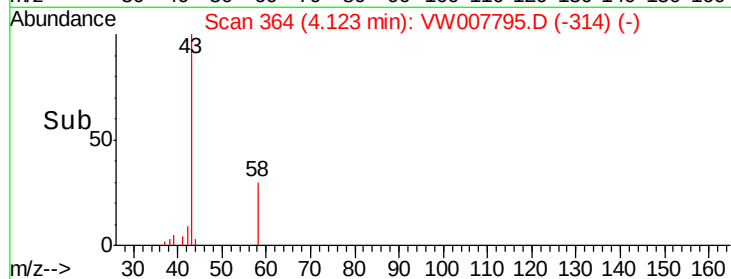
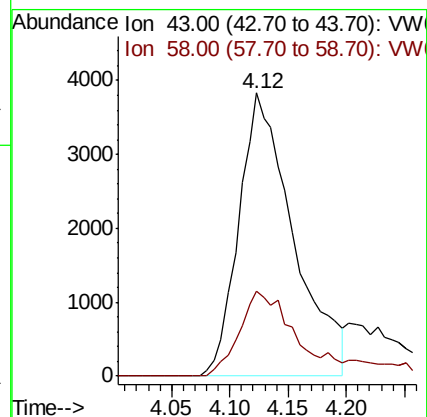
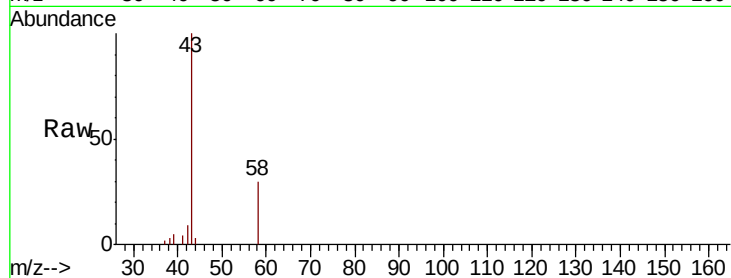
ClientSampleId :

Tot Ion: 43 Resp: 12466

Ion Ratio Lower Upper

43 100

58 29.9 21.2 31.8



#18

Methyl Acetate

Concen: 2.826 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW007795.D

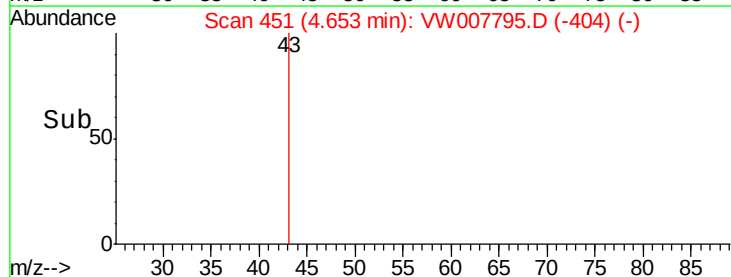
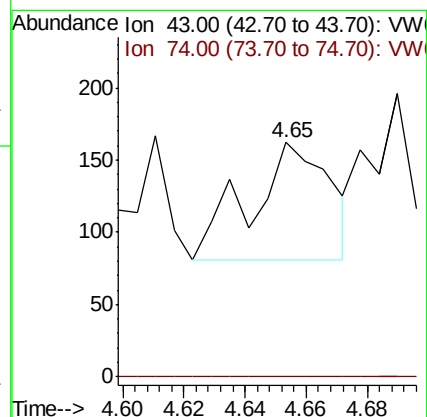
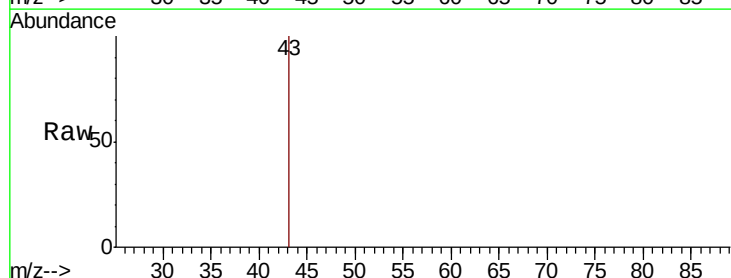
Acq: 21 Dec 2018 14:53

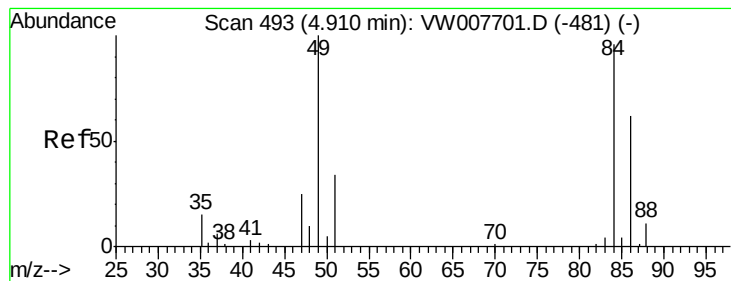
Tgt Ion: 43 Resp: 147

Ion Ratio Lower Upper

43 100

74 0.0 22.7 34.1#





#20

Methylene Chloride

Concen: 6.069 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 84 Resp: 1270

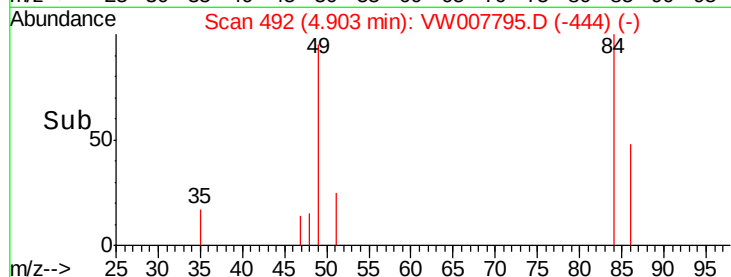
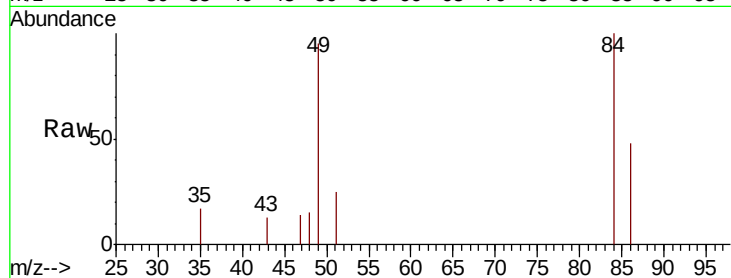
Ion Ratio Lower Upper

84 100

49 95.5 83.7 125.5

51 25.0 28.2 42.2#

86 48.4 52.2 78.2#

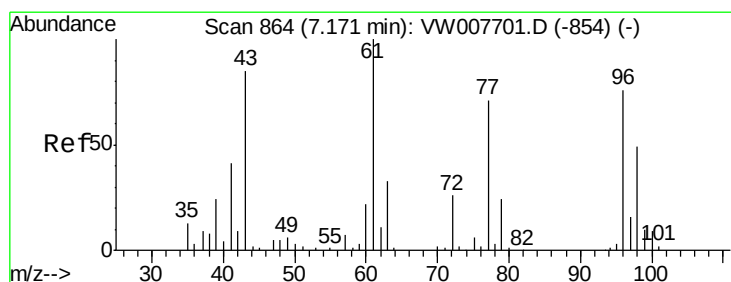
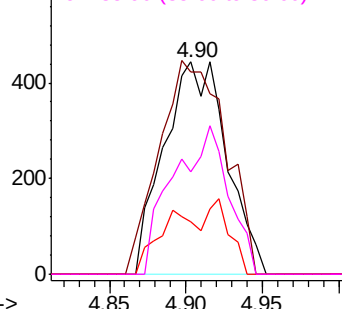


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 18.695 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007795.D

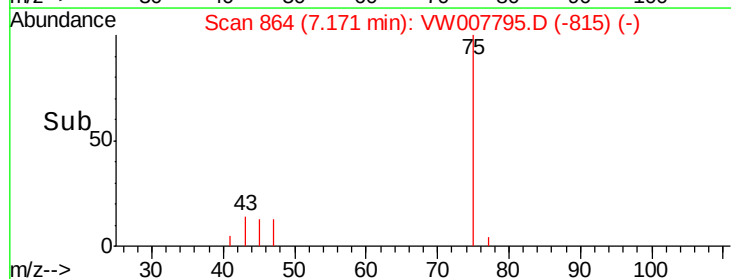
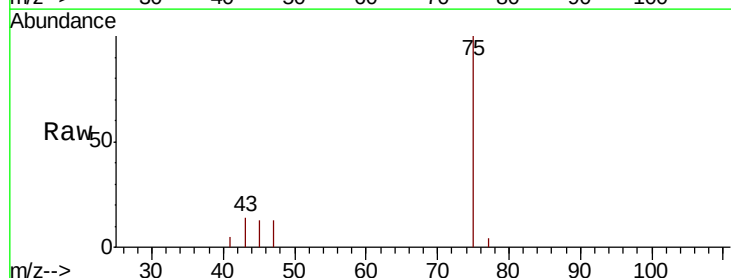
Acq: 21 Dec 2018 14:53

Tgt Ion: 43 Resp: 479

Ion Ratio Lower Upper

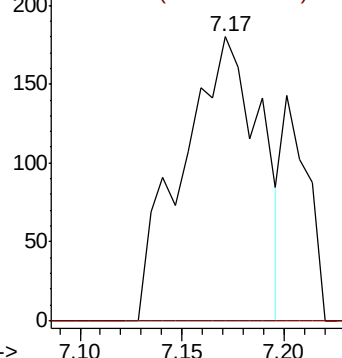
43 100

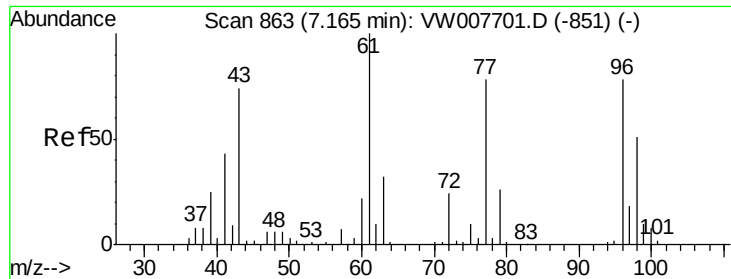
72 0.0 24.5 36.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

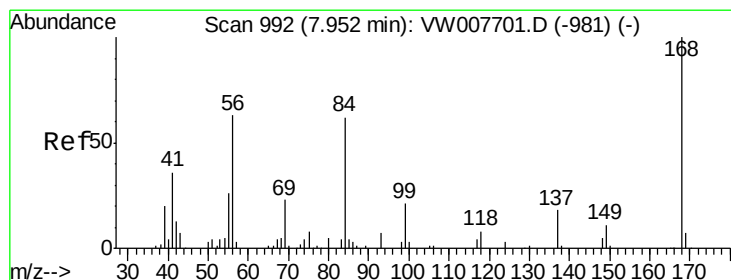
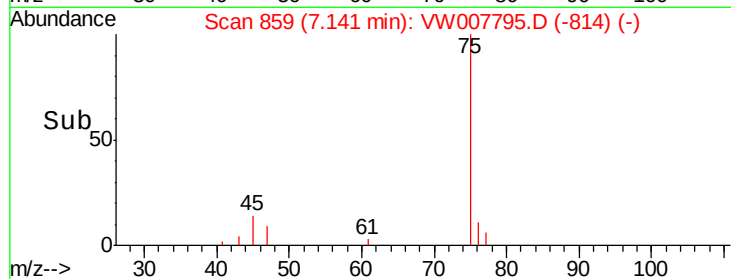
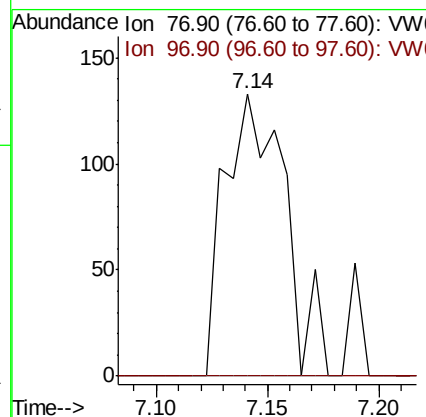
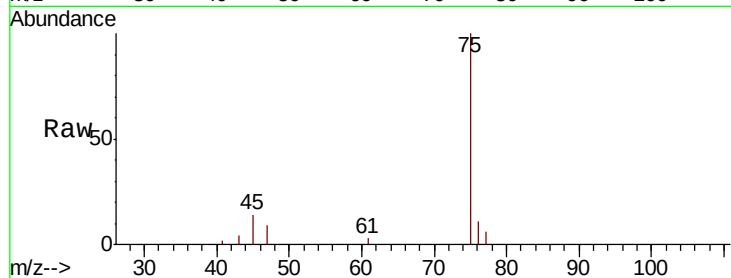




#26  
 2,2-Dichloropropane  
 Concen: 1.813 ug/l  
 RT: 7.14 min Scan# 859  
 Delta R.T. -0.02 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

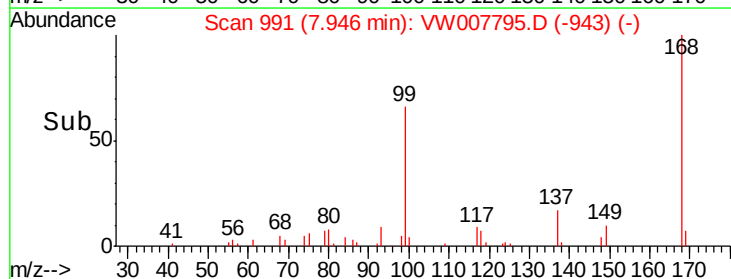
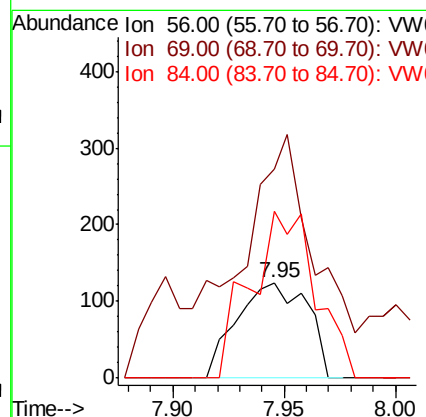
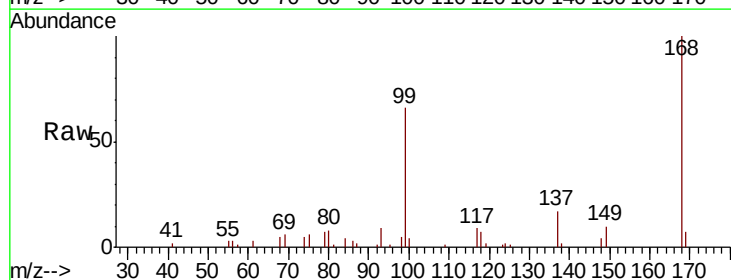
Instrument :  
 MSVOA\_W  
 ClientSampled :

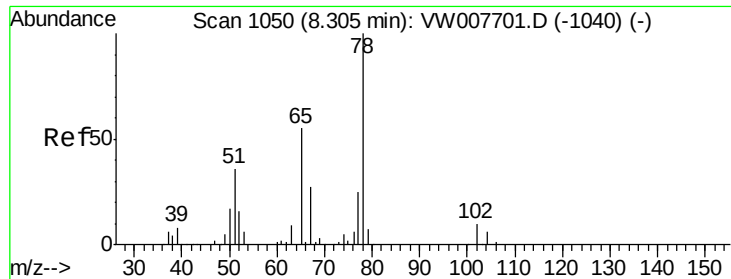
Tot Ion: 77 Resp: 252  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.3 33.9#



#31  
 Cyclohexane  
 Concen: 1.564 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.01 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Tgt Ion: 56 Resp: 272  
 Ion Ratio Lower Upper  
 56 100  
 69 146.0 29.7 44.5#  
 84 175.8 78.9 118.3#

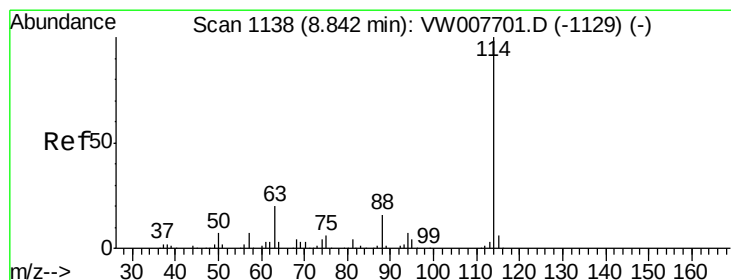
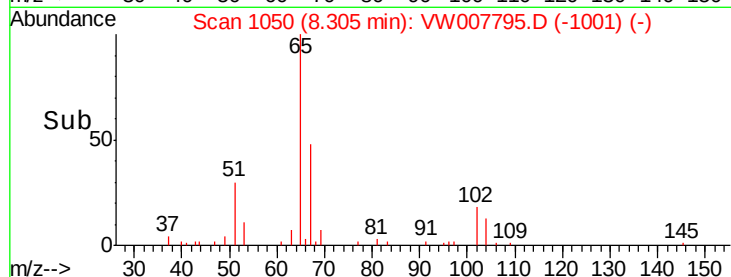
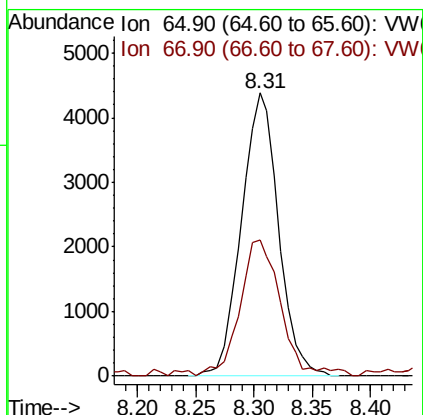
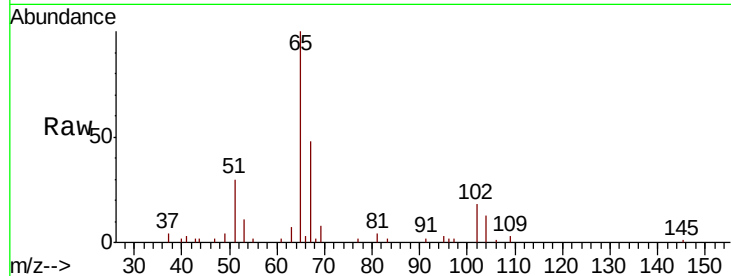




#33  
 1,2-Dichloroethane-d4  
 Concen: 83.156 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

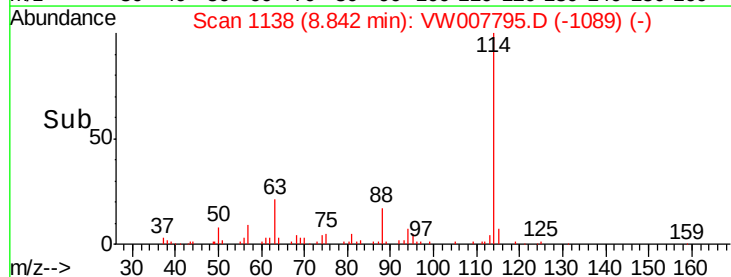
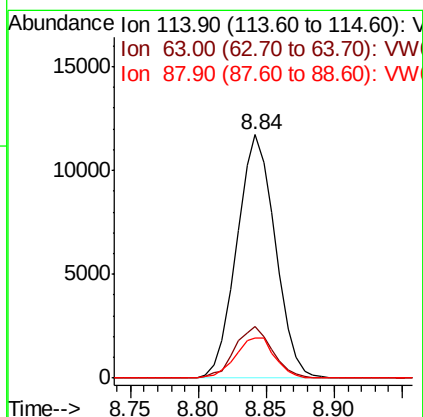
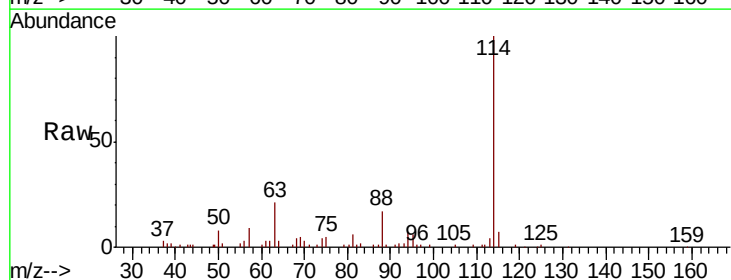
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 65 Resp: 9714  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 100.6

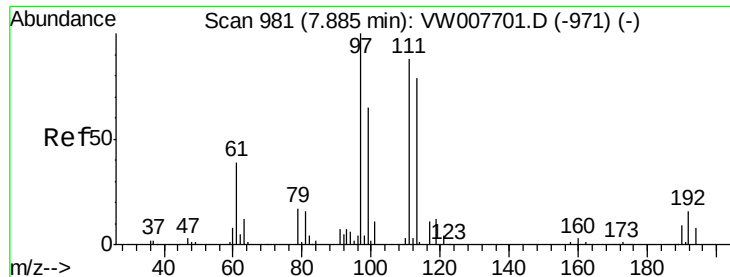


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Tgt Ion: 114 Resp: 23112  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 40.0  
 88 16.6 0.0 32.6



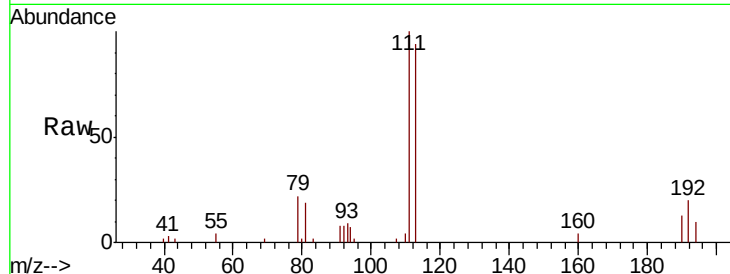




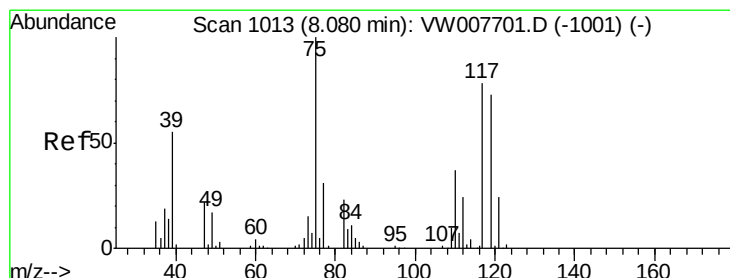
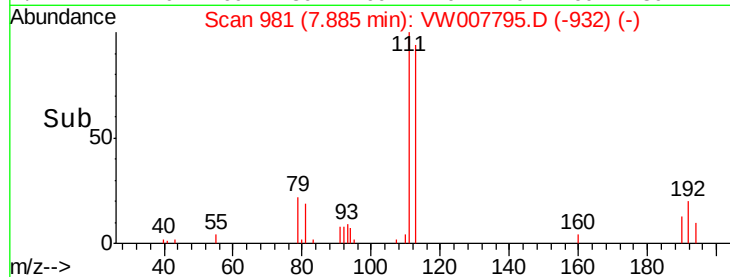
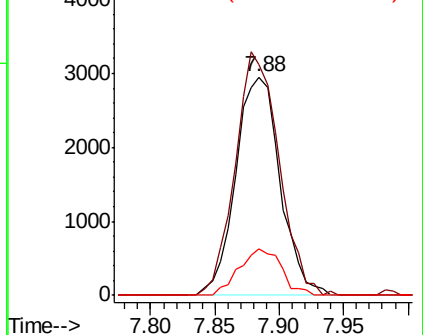
#35  
 Dibromofluoromethane  
 Concen: 50.016 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:113 Resp: 7052  
 Ion Ratio Lower Upper  
 113 100  
 111 109.8 82.6 124.0  
 192 20.2 15.5 23.3

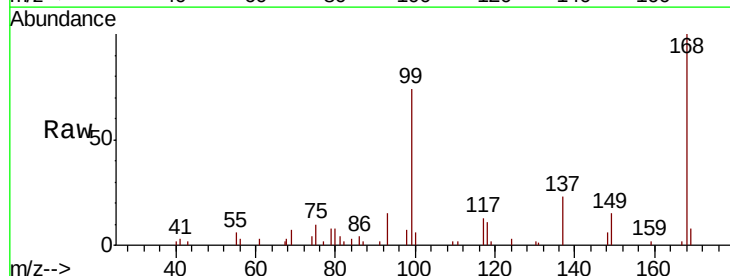


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

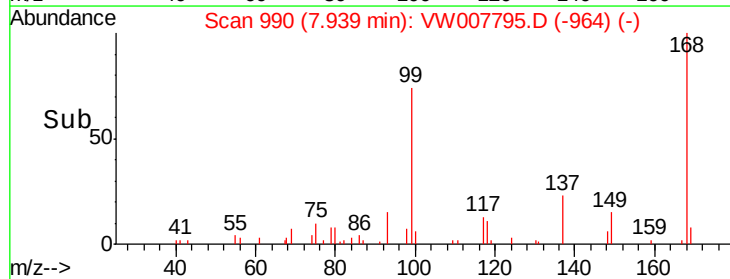
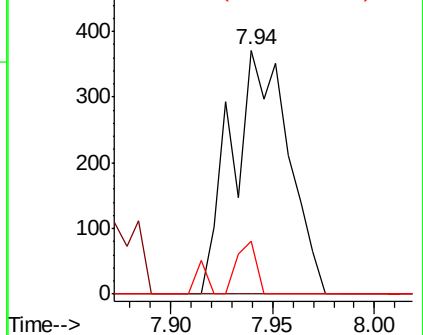


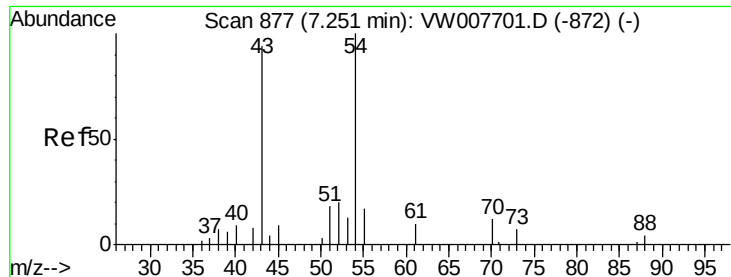
#36  
 1,1-Dichloropropene  
 Concen: 3.241 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Tgt Ion: 75 Resp: 723  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 18.6 55.8#  
 77 7.2 25.0 37.4#



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

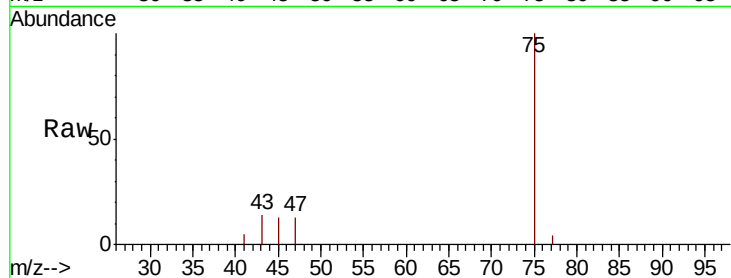




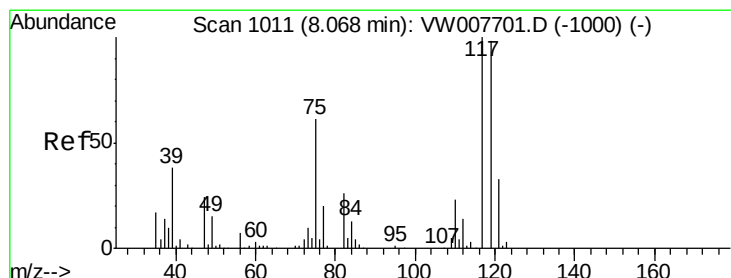
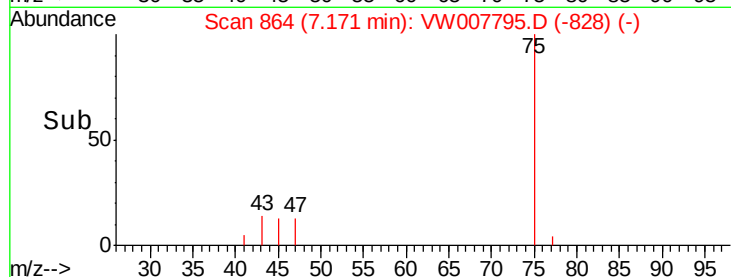
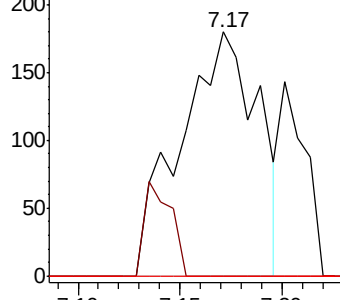
#37  
Ethyl Acetate  
Concen: 6.222 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.08 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 479  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.2 16.8#  
70 0.0 9.3 13.9#

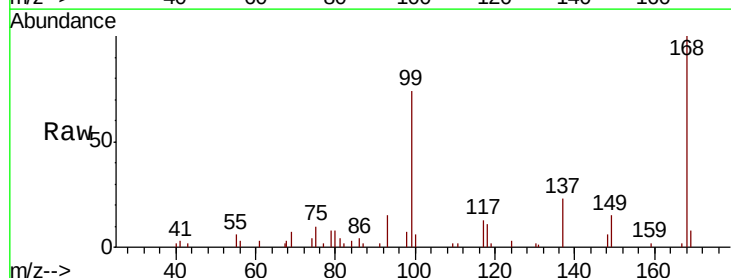


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 70.00 (69.70 to 70.70): VW

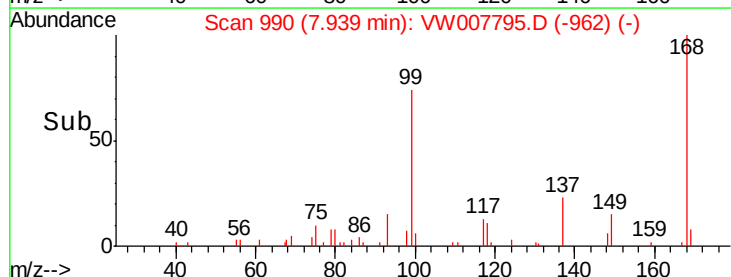
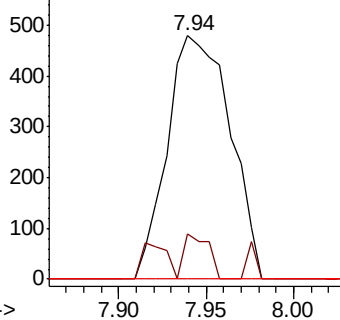


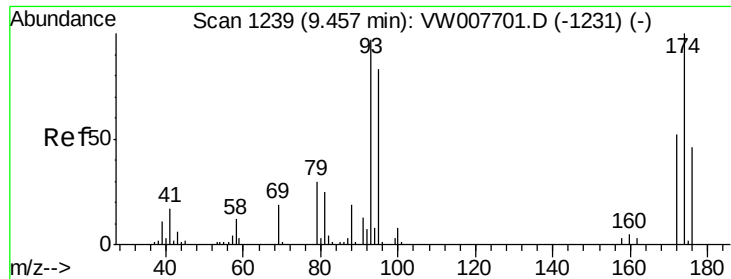
#38  
Carbon Tetrachloride  
Concen: 4.572 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.13 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion: 117 Resp: 1201  
Ion Ratio Lower Upper  
117 100  
119 18.6 78.2 117.2#  
121 0.0 26.1 39.1#



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





#46

Dibromomethane

Concen: 1.082 ug/l

RT: 9.25 min Scan# 1205

Delta R.T. -0.21 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :

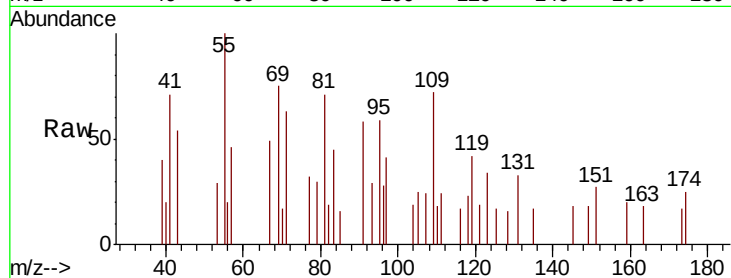
Tot Ion: 93 Resp: 88

Ion Ratio Lower Upper

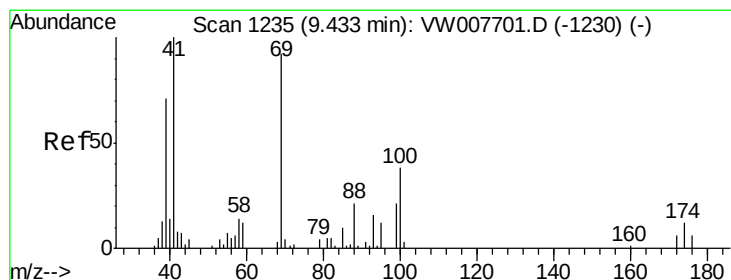
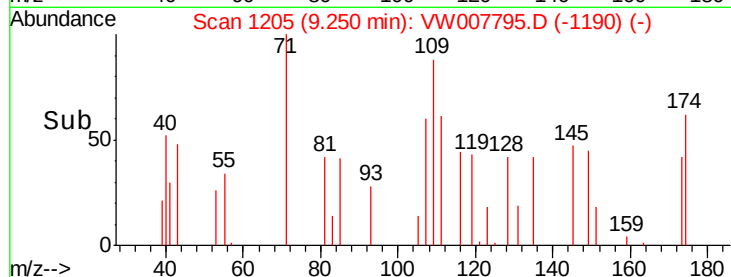
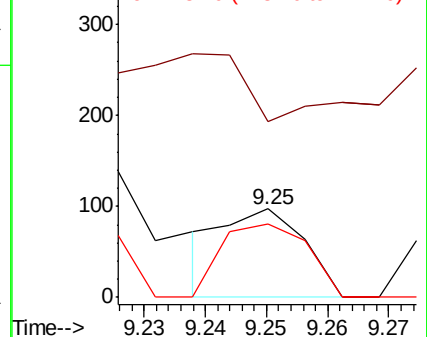
93 100

95 70.5 67.5 101.3

174 89.8 83.9 125.9



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



#48

Methyl methacrylate

Concen: 4.195 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.02 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

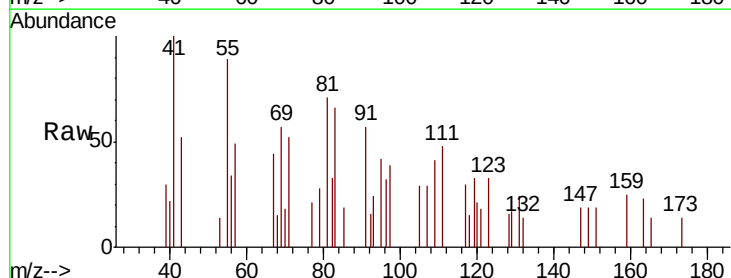
Tgt Ion: 41 Resp: 323

Ion Ratio Lower Upper

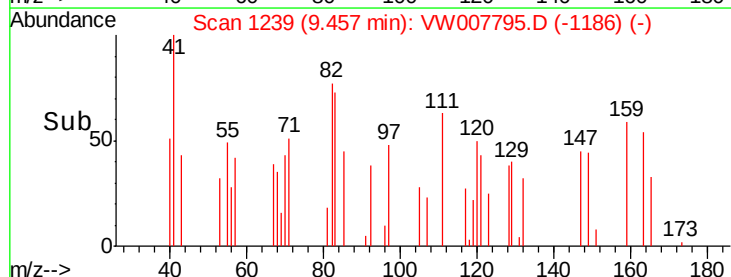
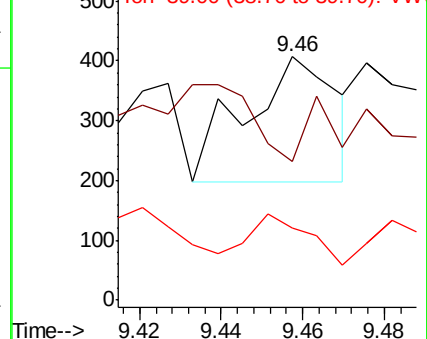
41 100

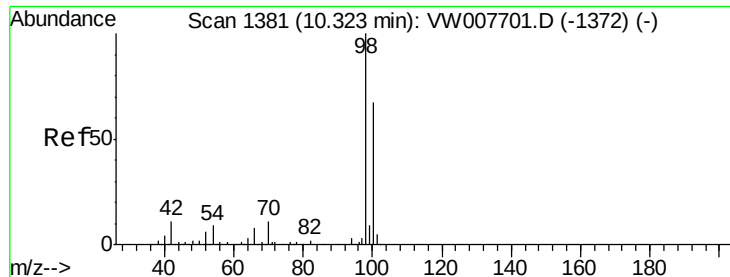
69 49.5 74.2 111.2#

39 26.6 53.9 80.9#



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: 35.992 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

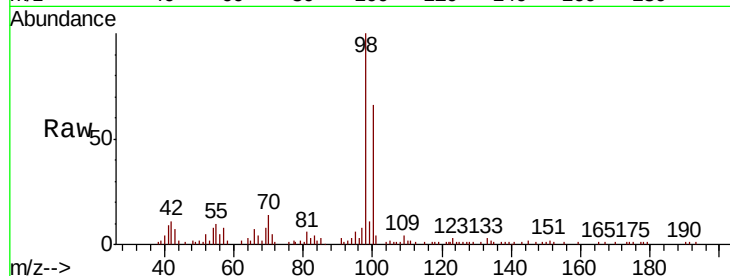
ClientSampleId :

Tot Ion: 98 Resp: 19131

Ion Ratio Lower Upper

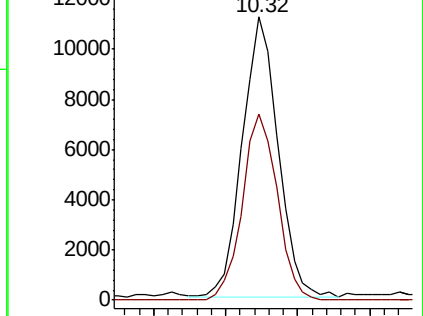
98 100

100 65.0 52.2 78.2

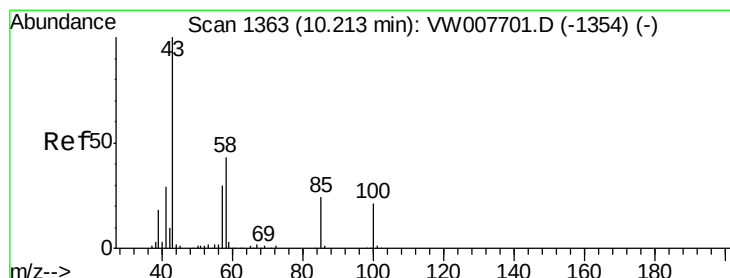
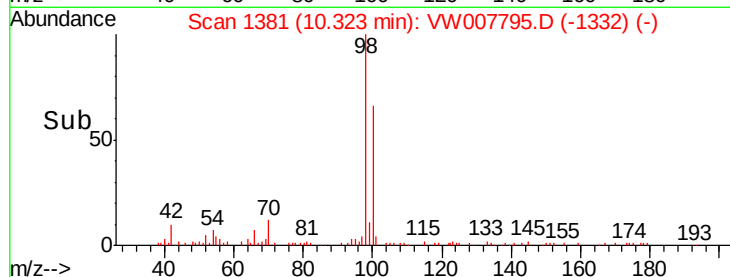


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



Time-->



#51

4-Methyl-2-Pentanone

Concen: 6.366 ug/l

RT: 10.13 min Scan# 1350

Delta R.T. -0.08 min

Lab File: VW007795.D

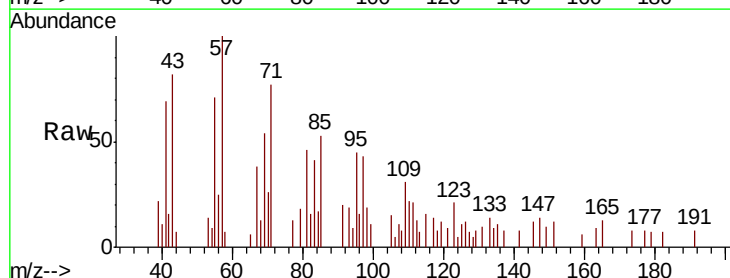
Acq: 21 Dec 2018 14:53

Tgt Ion: 43 Resp: 464

Ion Ratio Lower Upper

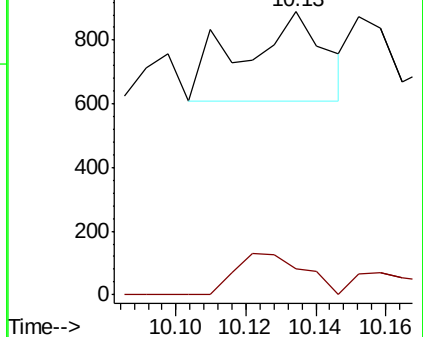
43 100

58 37.7 33.2 49.8

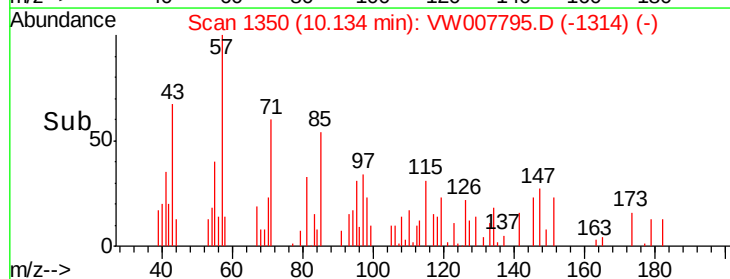


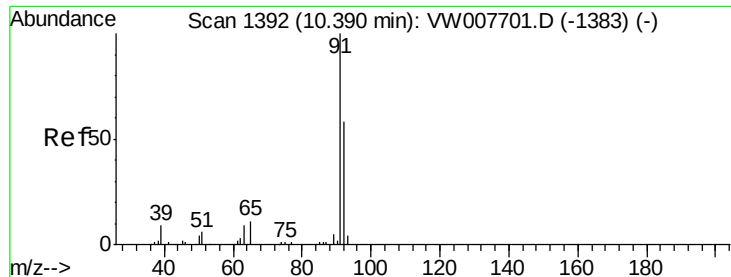
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->





#52

Toluene

Concen: 82.182 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

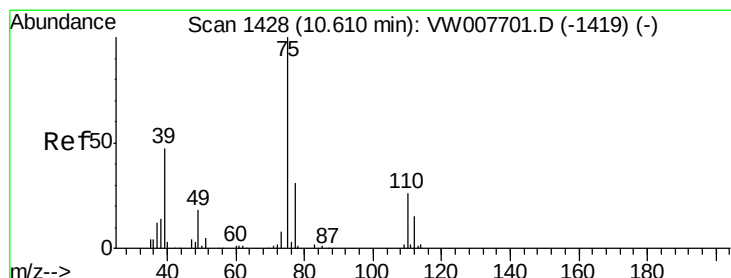
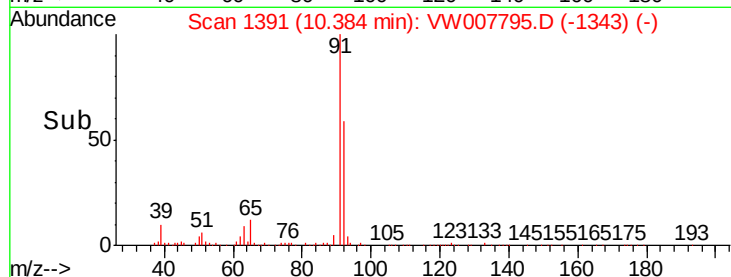
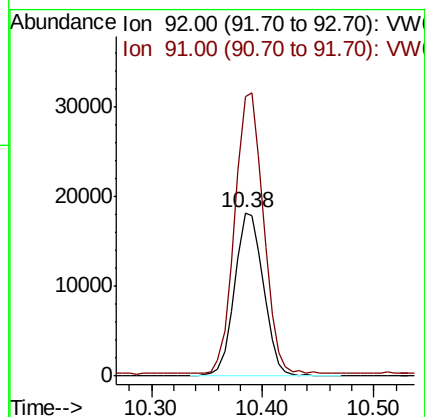
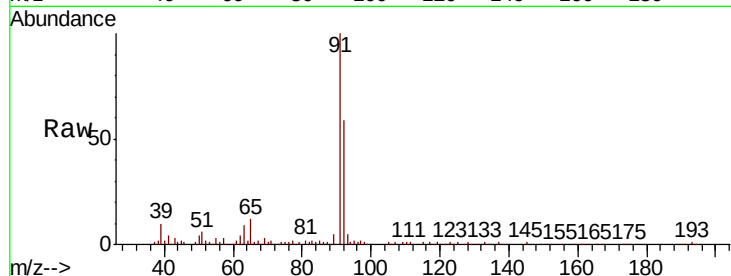
ClientSampleId :

Tot Ion: 92 Resp: 32822

Ion Ratio Lower Upper

92 100

91 172.1 137.0 205.4



#53

t-1,3-Dichloropropene

Concen: 1.848 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.22 min

Lab File: VW007795.D

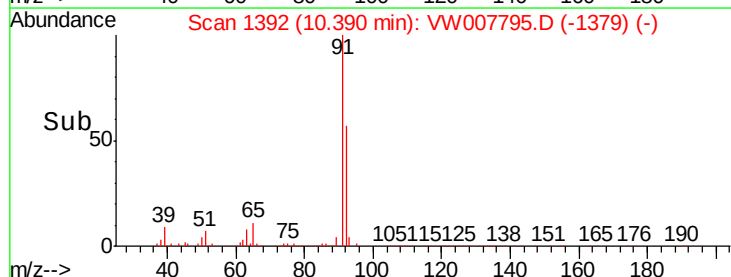
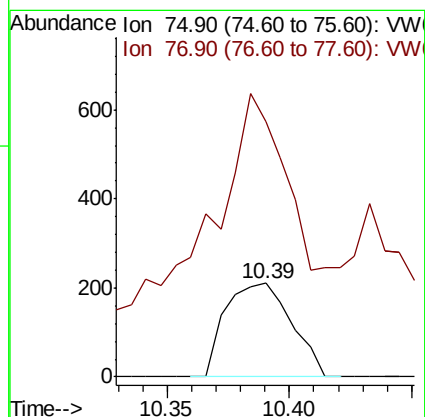
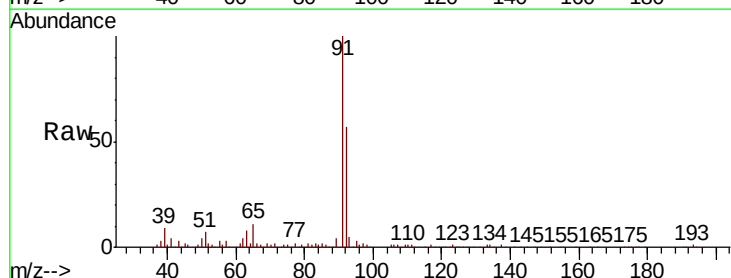
Acq: 21 Dec 2018 14:53

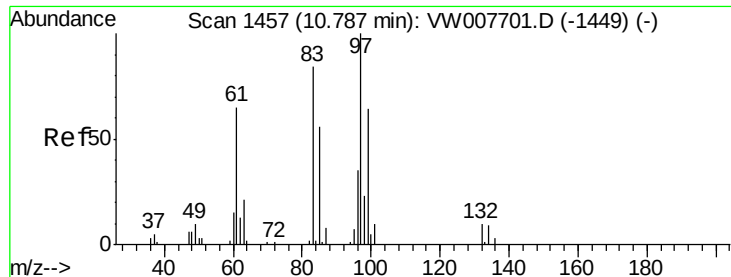
Tgt Ion: 75 Resp: 393

Ion Ratio Lower Upper

75 100

77 155.9 25.2 37.8#

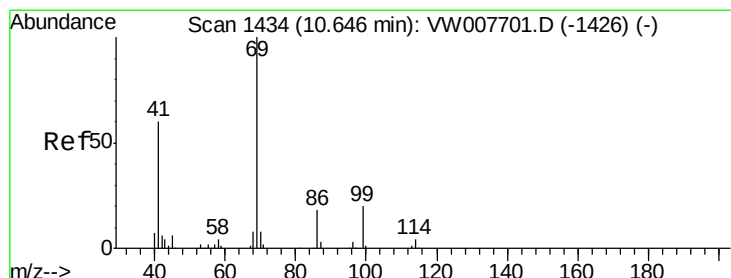
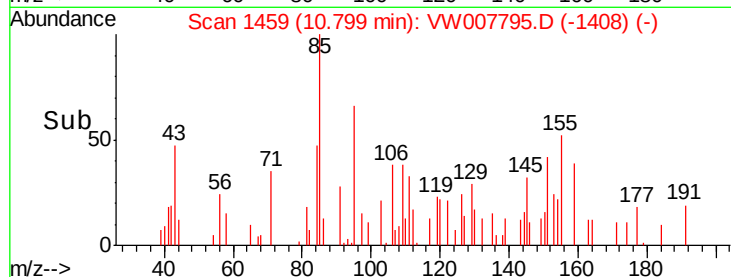
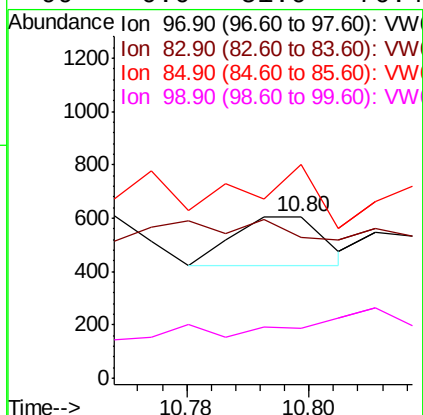
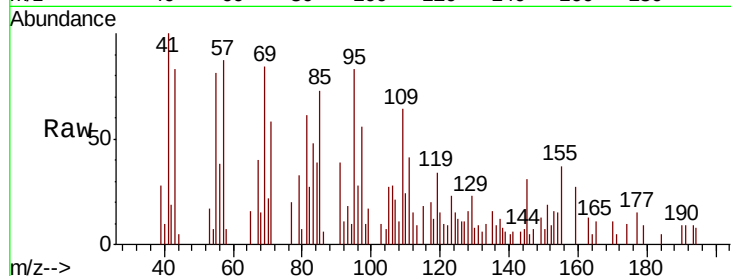




#55  
 1,1,2-Trichloroethane  
 Concen: 1.677 ug/l  
 RT: 10.80 min Scan# 1459  
 Delta R.T. 0.01 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

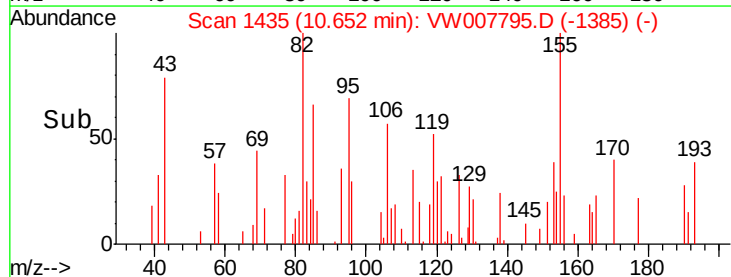
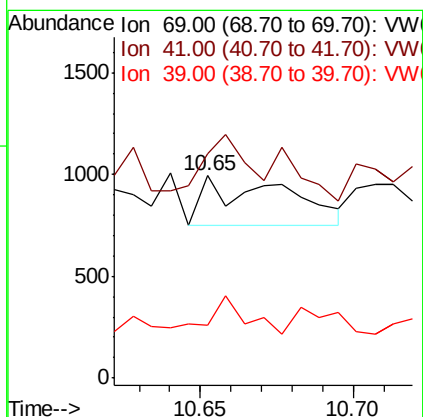
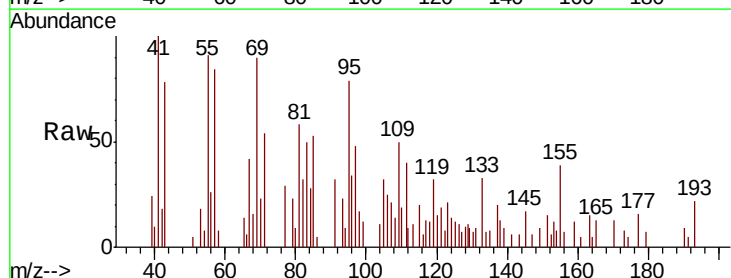
Instrument :  
 MSVOA\_W  
 ClientSampled :

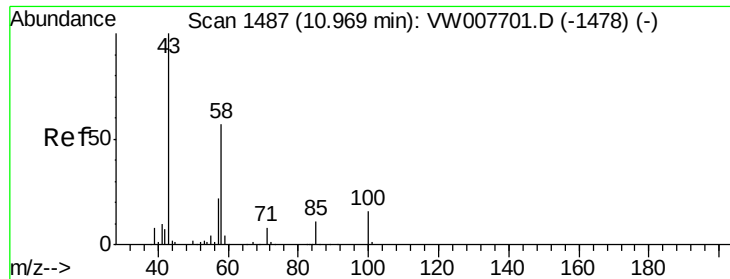
Tot Ion: 97 Resp: 188  
 Ion Ratio Lower Upper  
 97 100  
 83 2.7 67.5 101.3#  
 85 130.1 44.8 67.2#  
 99 0.0 51.0 76.4#



#56  
 Ethyl methacrylate  
 Concen: 3.353 ug/l  
 RT: 10.65 min Scan# 1435  
 Delta R.T. 0.01 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Tgt Ion: 69 Resp: 444  
 Ion Ratio Lower Upper  
 69 100  
 41 79.3 48.9 73.3#  
 39 35.6 31.3 46.9

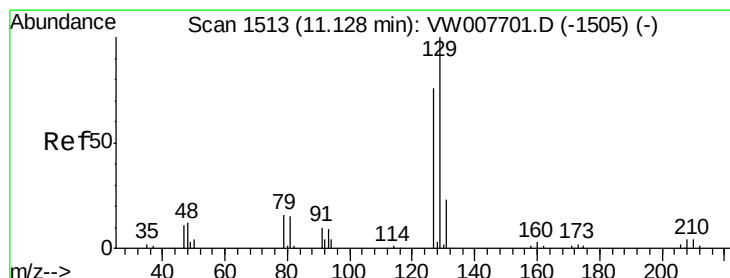
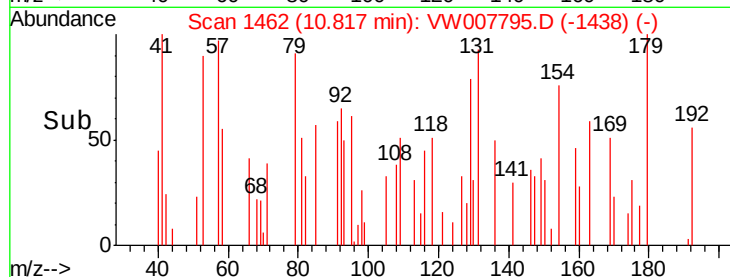
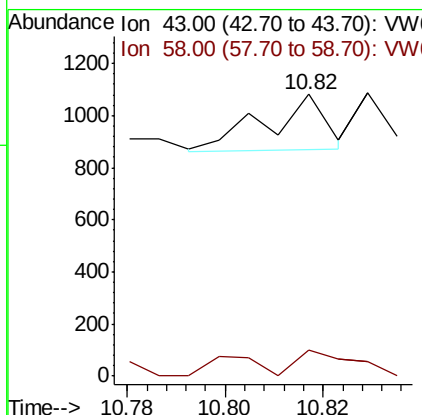
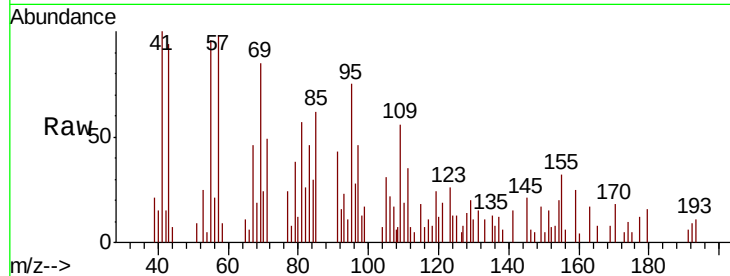




#59  
2-Hexanone  
Concen: 3.550 ug/l  
RT: 10.82 min Scan# 1462  
Delta R.T. -0.15 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

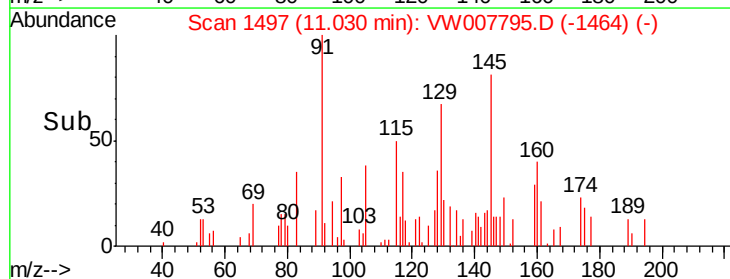
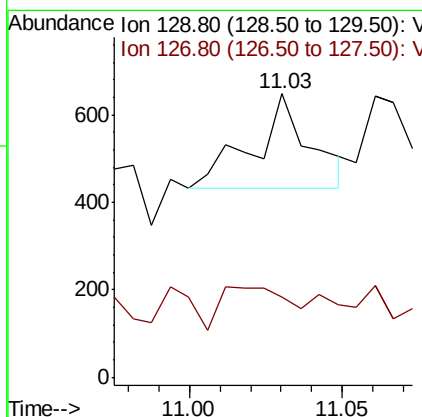
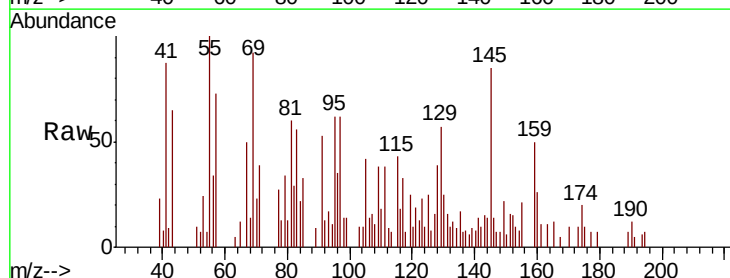
Instrument :  
MSVOA\_W  
ClientSampled :

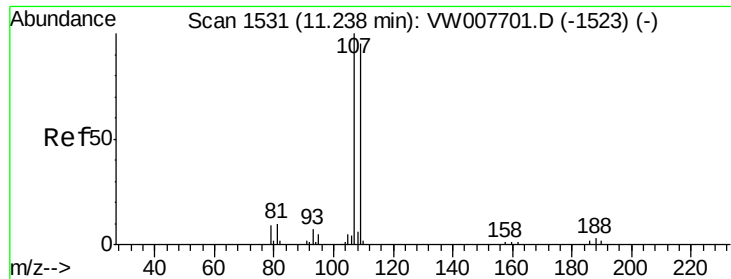
Tot Ion: 43 Resp: 182  
Ion Ratio Lower Upper  
43 100  
58 44.0 27.7 83.1



#60  
Dibromochloromethane  
Concen: 1.860 ug/l  
RT: 11.03 min Scan# 1497  
Delta R.T. -0.10 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion: 129 Resp: 276  
Ion Ratio Lower Upper  
129 100  
127 56.2 38.3 114.9





#61

1,2-Dibromoethane

Concen: 2.282 ug/l

RT: 11.43 min Scan# 1563

Delta R.T. 0.20 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

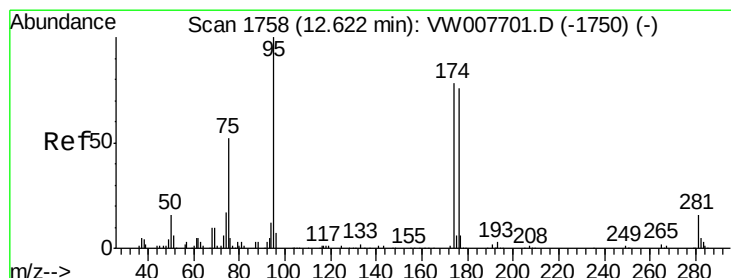
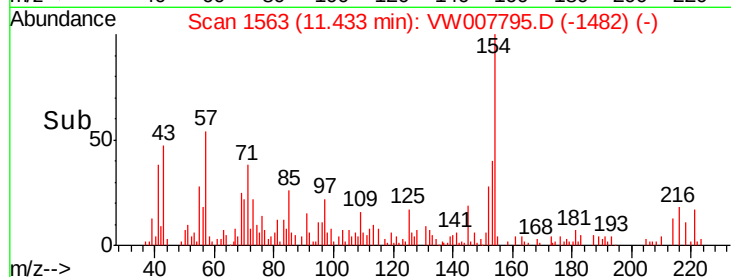
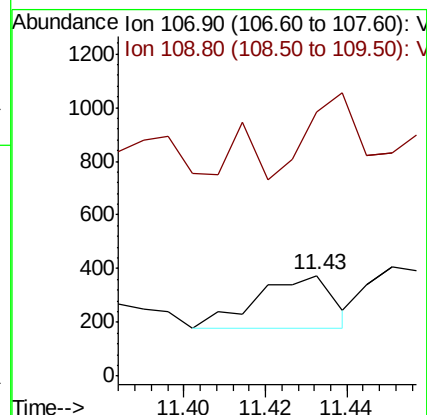
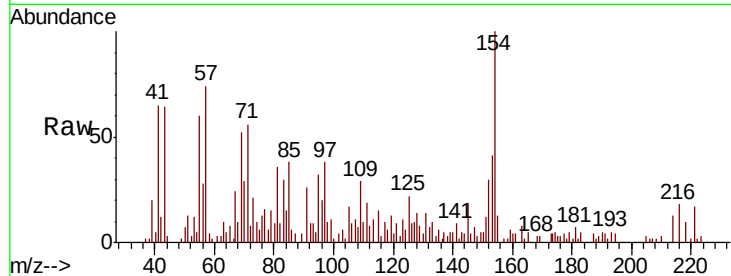
ClientSampled :

Tot Ion:107 Resp: 259

Ion Ratio Lower Upper

107 100

109 105.0 75.4 113.0



#62

4-Bromofluorobenzene

Concen: 50.496 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

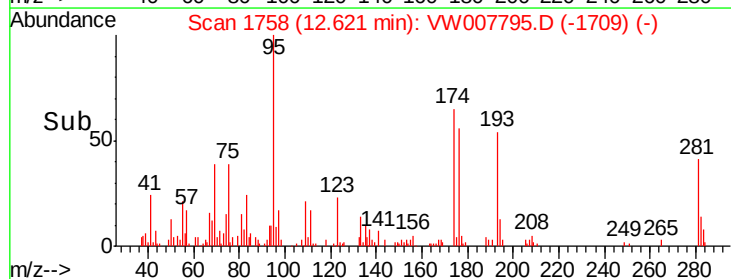
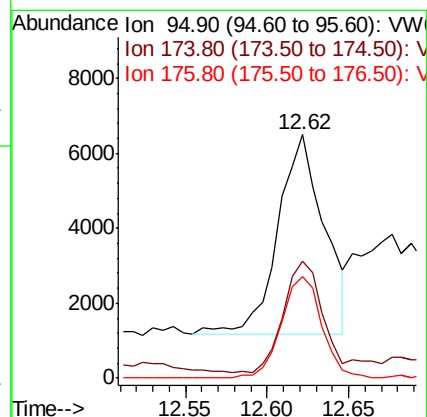
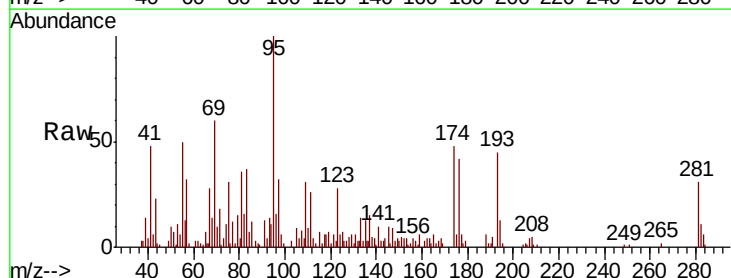
Tgt Ion: 95 Resp: 10369

Ion Ratio Lower Upper

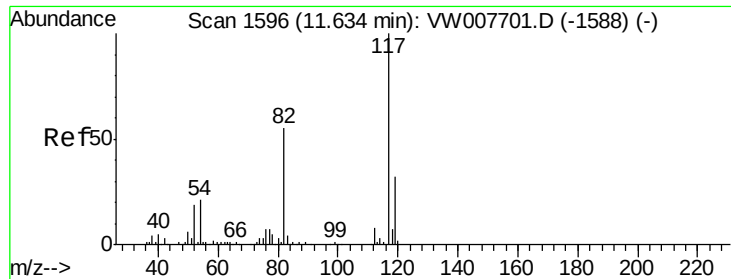
95 100

174 51.0 0.0 152.2

176 44.5 0.0 146.8



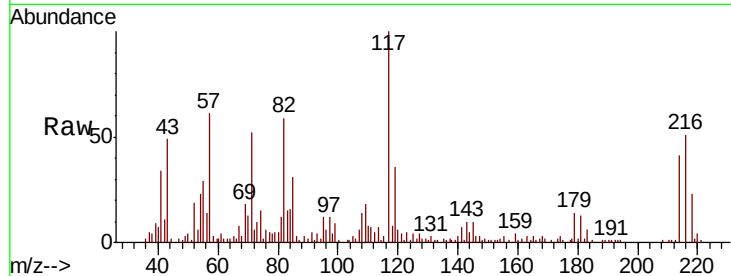




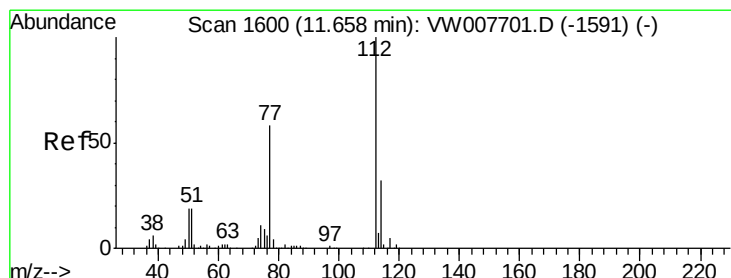
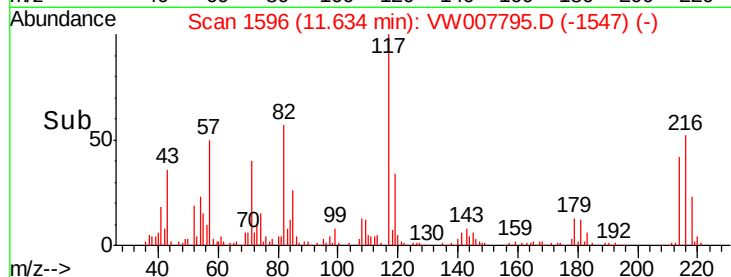
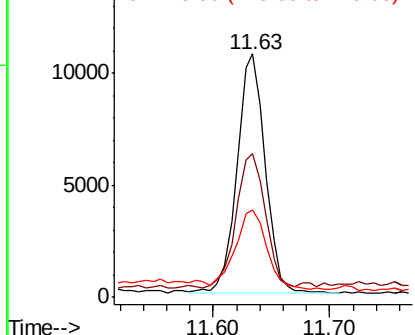
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 18202  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.3 66.5  
119 32.4 25.7 38.5

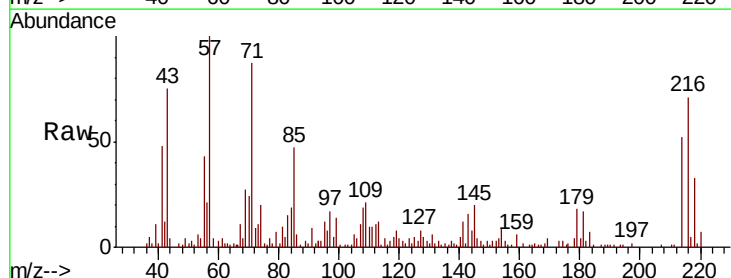


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

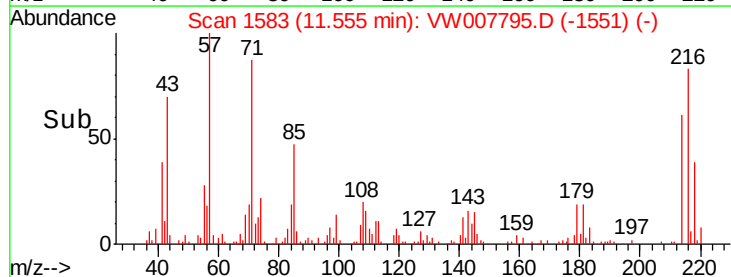
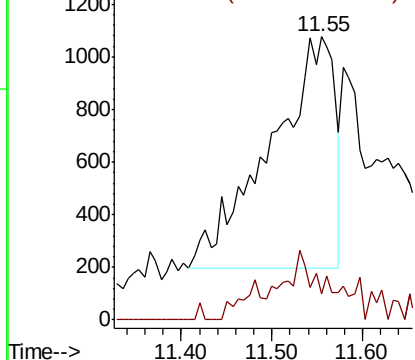


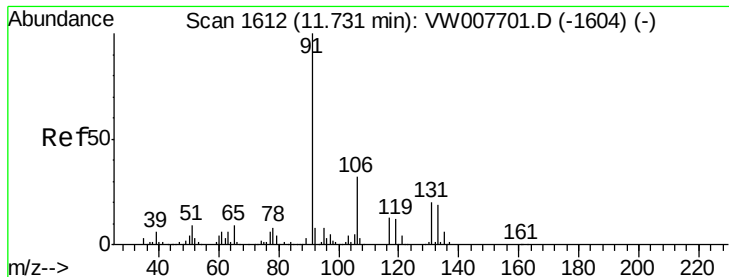
#65  
Chlorobenzene  
Concen: 10.986 ug/l  
RT: 11.55 min Scan# 1583  
Delta R.T. -0.10 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion:112 Resp: 4328  
Ion Ratio Lower Upper  
112 100  
114 11.4 25.2 37.8#



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

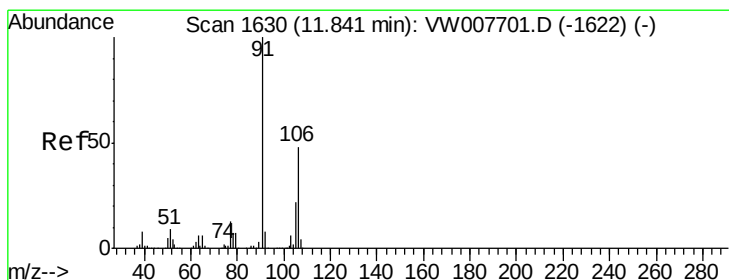
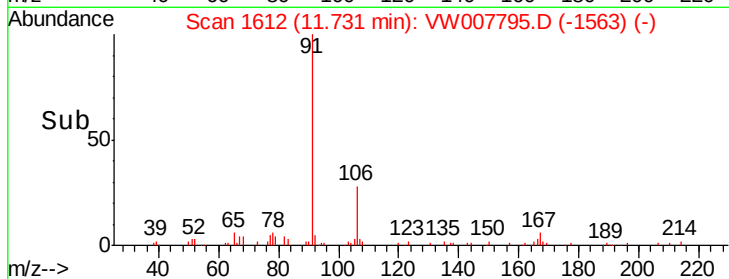
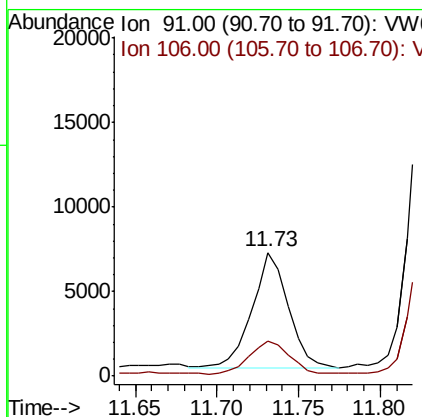
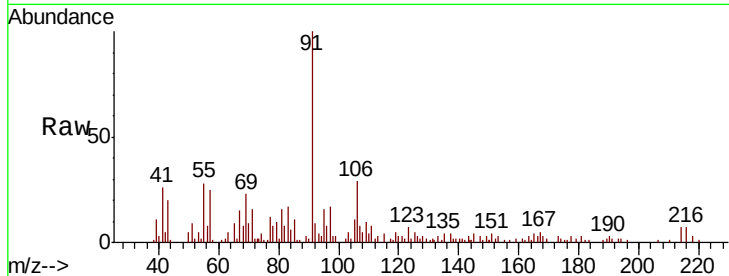




#67  
Ethyl Benzene  
Concen: 15.443 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

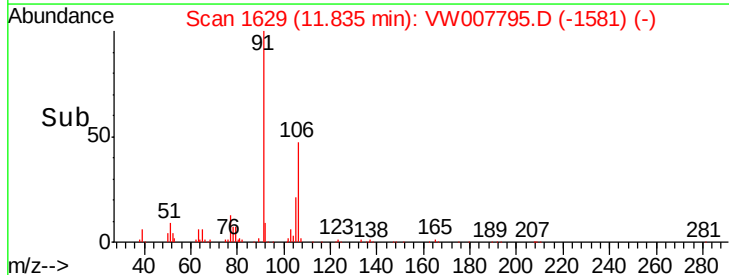
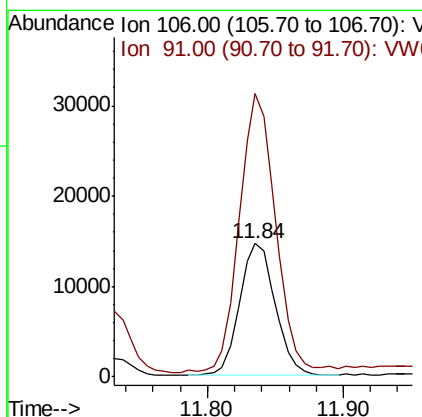
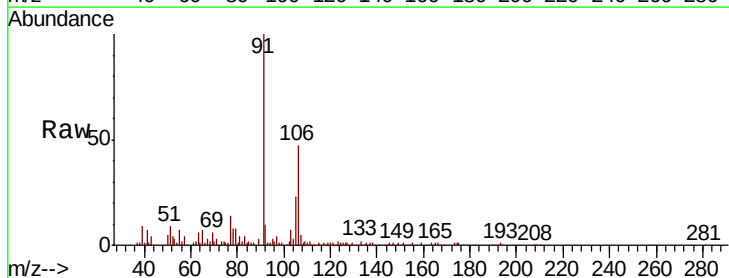
Instrument :  
MSVOA\_W  
ClientSampleId :

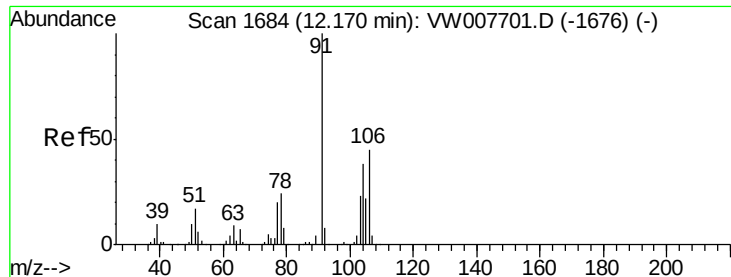
Tot Ion: 91 Resp: 10440  
Ion Ratio Lower Upper  
91 100  
106 28.4 25.8 38.8



#68  
m/p-Xylenes  
Concen: 102.147 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion: 106 Resp: 26788  
Ion Ratio Lower Upper  
106 100  
91 214.3 165.2 247.8

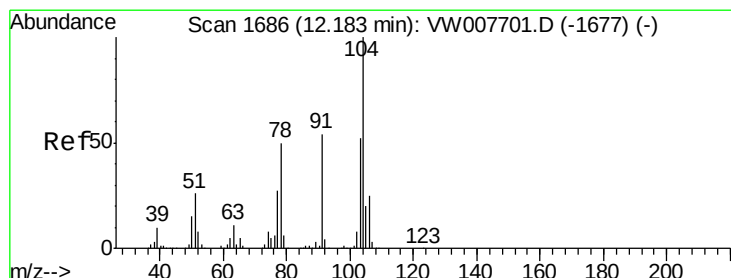
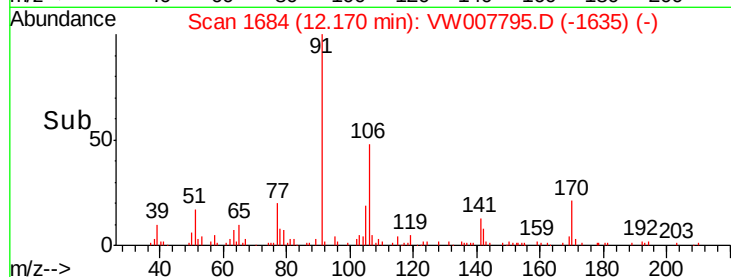
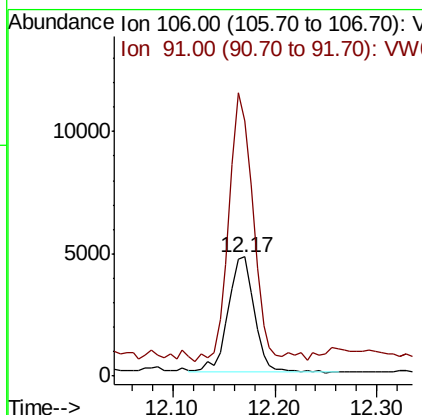
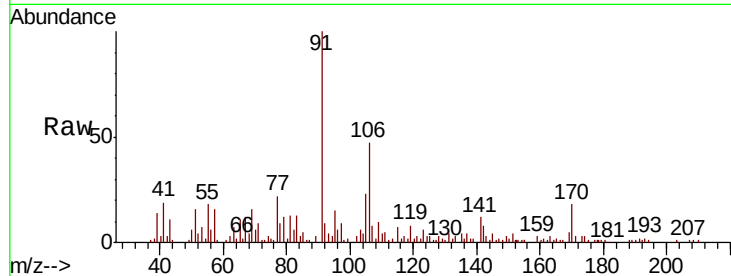




#69  
o-Xylene  
Concen: 34.244 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

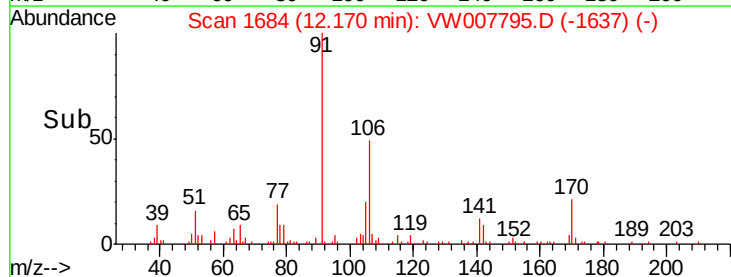
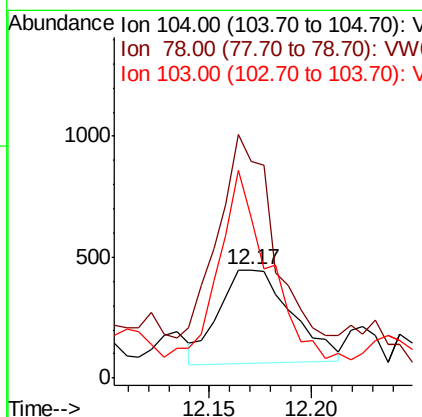
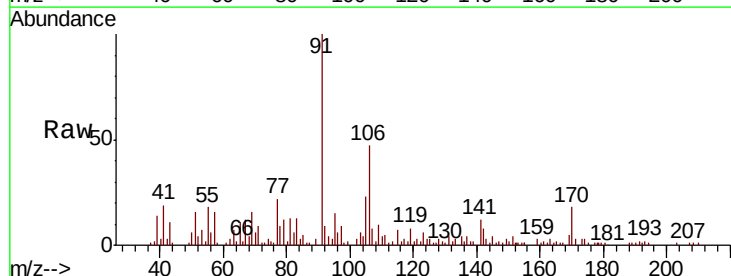
Instrument :  
MSVOA\_W  
ClientSampleId :

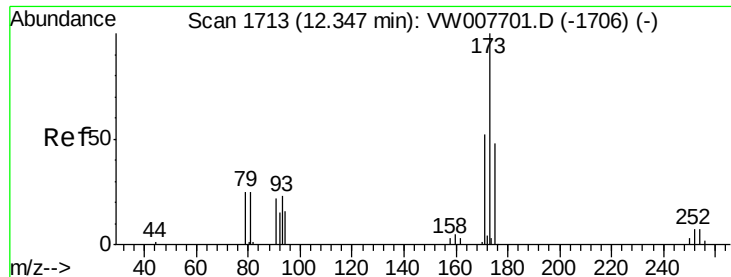
Tot Ion:106 Resp: 8418  
Ion Ratio Lower Upper  
106 100  
91 212.3 110.5 331.4



#70  
Styrene  
Concen: 2.339 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion:104 Resp: 945  
Ion Ratio Lower Upper  
104 100  
78 159.5 43.4 65.0#  
103 138.2 44.5 66.7#





#71

Bromoform

Concen: 9.292 ug/l

RT: 12.33 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

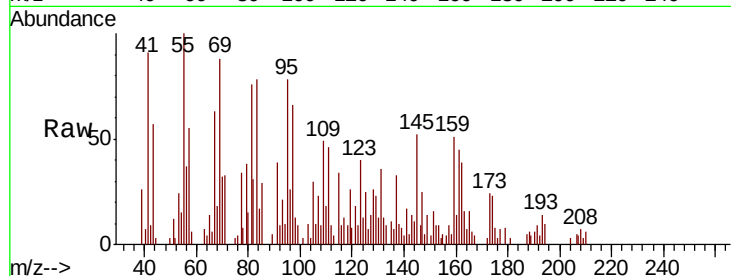
Tot Ion:173 Resp: 679

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

254 0.0 0.0 0.0

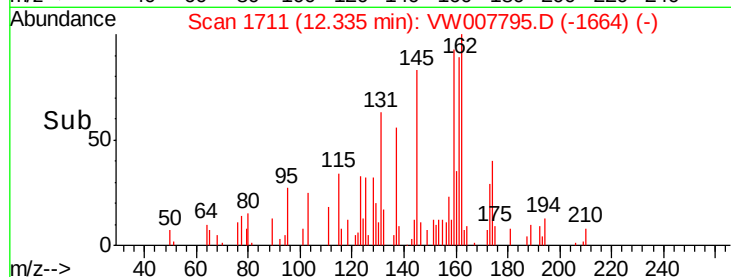


Abundance Ion 172.70 (172.40 to 173.40): V

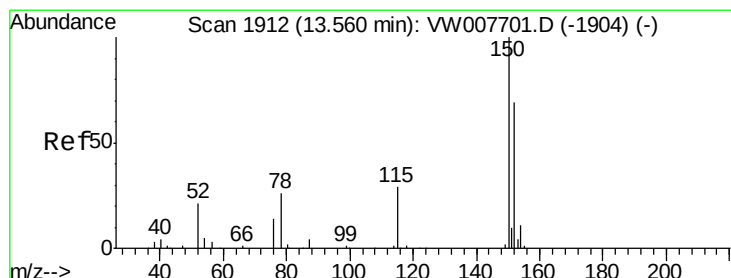
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

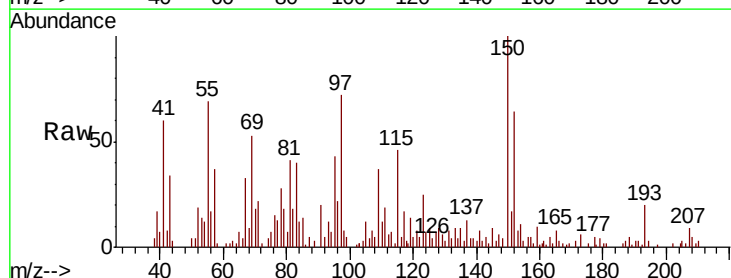
Tgt Ion:152 Resp: 5538

Ion Ratio Lower Upper

152 100

115 74.6 31.8 95.4

150 152.3 0.0 350.8

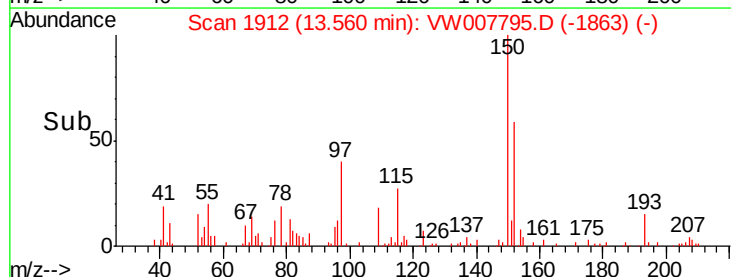


Abundance Ion 151.90 (151.60 to 152.60): V

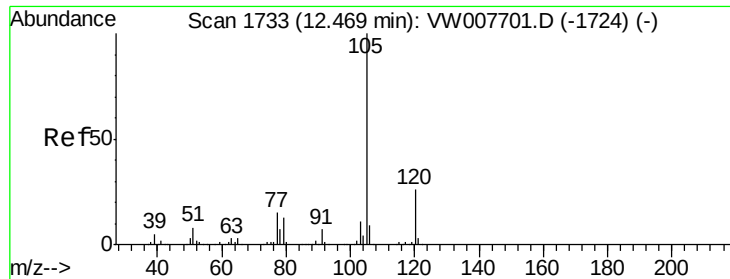
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->



Time-->



#73

Isopropylbenzene

Concen: 9.608 ug/l

RT: 12.48 min Scan# 1734

Delta R.T. 0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

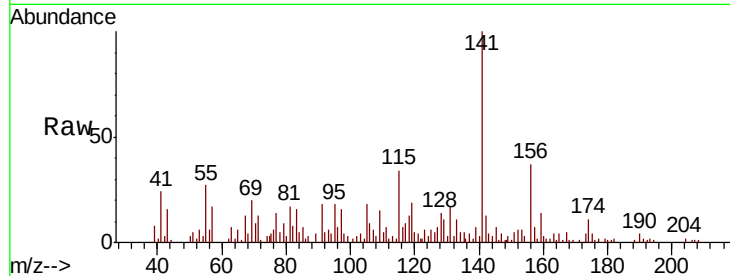
ClientSampled :

Tot Ion:105 Resp: 4022

Ion Ratio Lower Upper

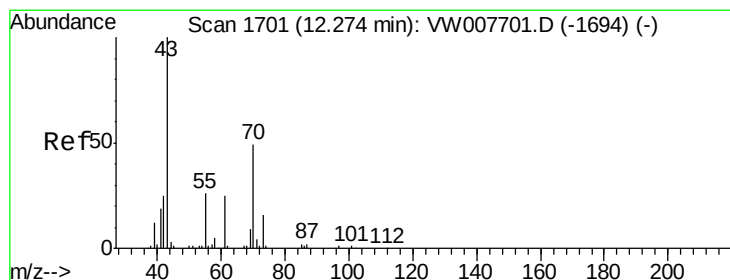
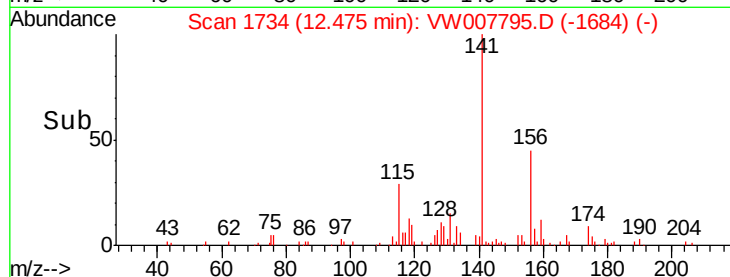
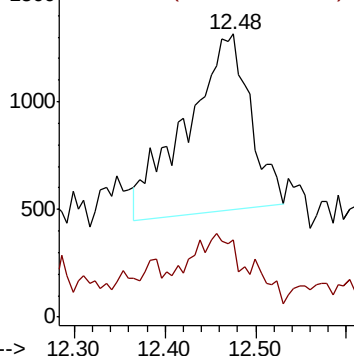
105 100

120 14.0 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.482 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Tgt Ion: 43 Resp: 180

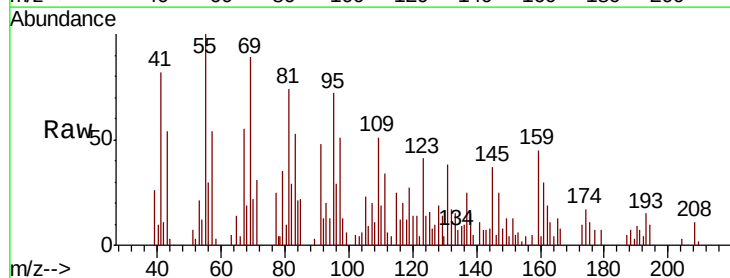
Ion Ratio Lower Upper

43 100

70 147.8 37.6 56.4#

55 226.1 21.7 32.5#

61 0.0 20.1 30.1#

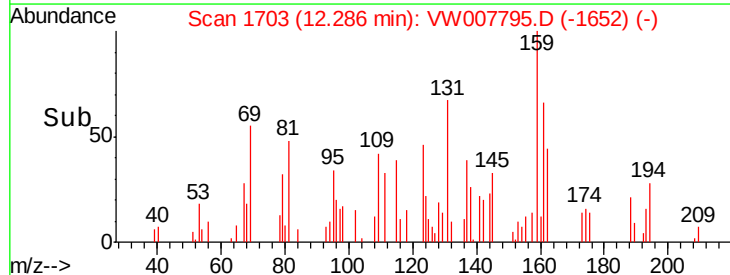
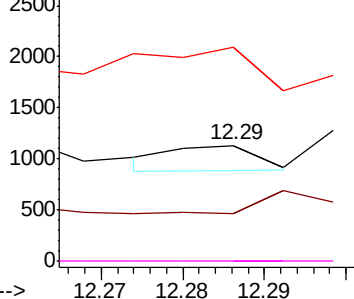


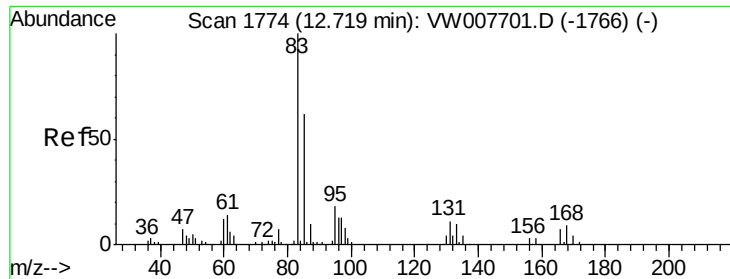
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 315.133 ug/l

RT: 12.68 min Scan# 1767

Delta R.T. -0.04 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

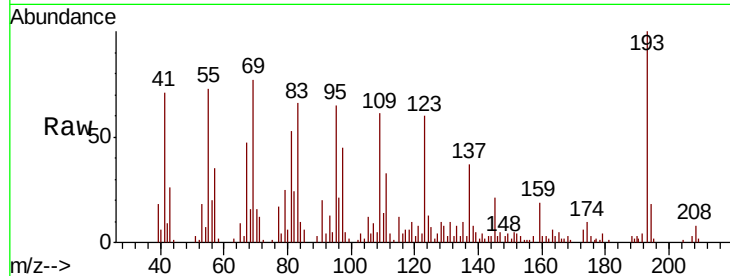
Tot Ion: 83 Resp: 19779

Ion Ratio Lower Upper

83 100

131 2.7 6.3 18.8#

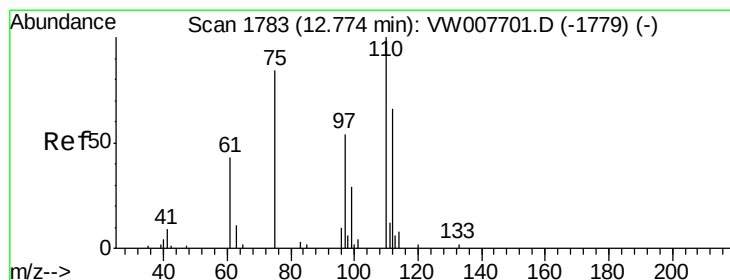
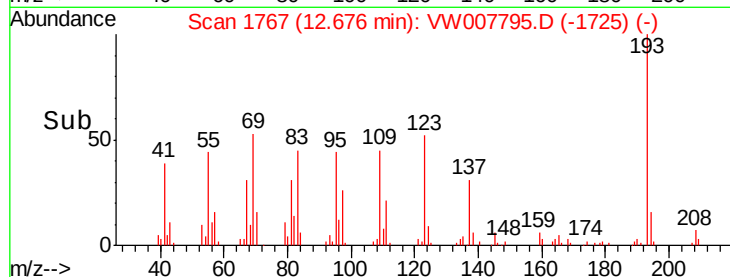
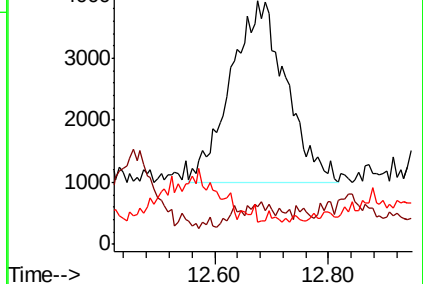
85 0.7 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 57.682 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.11 min

Lab File: VW007795.D

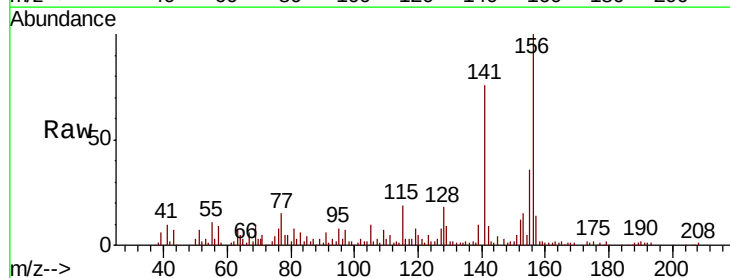
Acq: 21 Dec 2018 14:53

Tgt Ion: 75 Resp: 2469

Ion Ratio Lower Upper

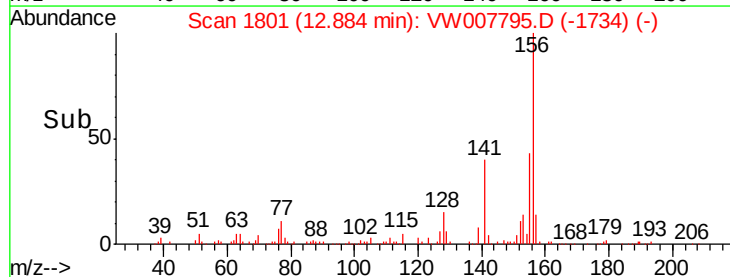
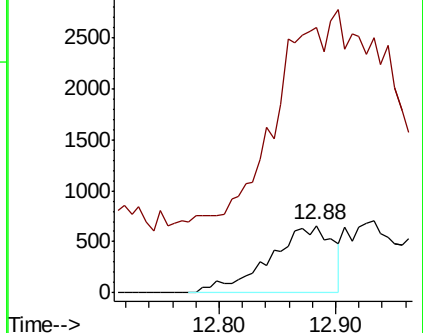
75 100

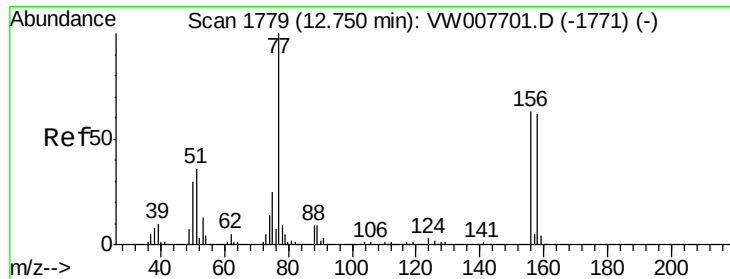
77 240.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 1470.139 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.15 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

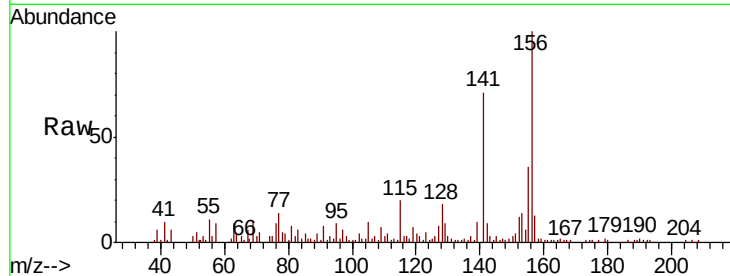
Tot Ion:156 Resp: 141038

Ion Ratio Lower Upper

156 100

77 4.2 87.4 262.1#

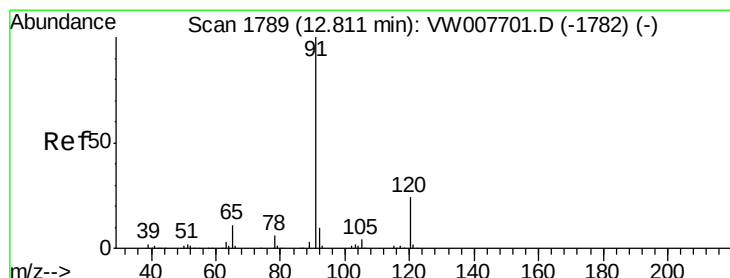
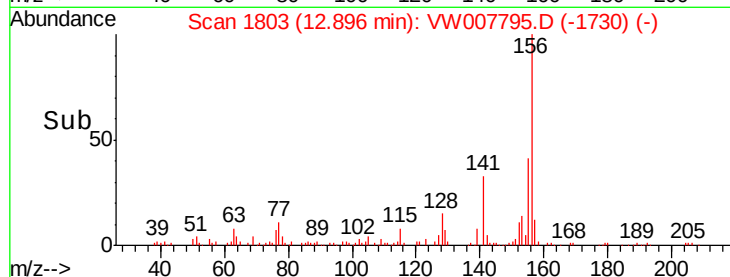
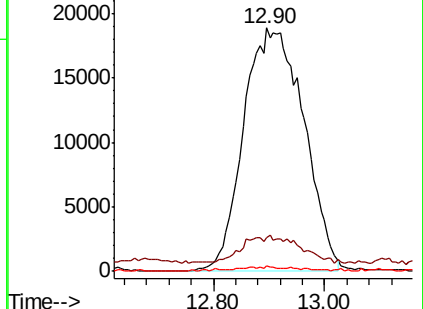
158 0.1 48.4 145.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.572 ug/l

RT: 13.01 min Scan# 1821

Delta R.T. 0.20 min

Lab File: VW007795.D

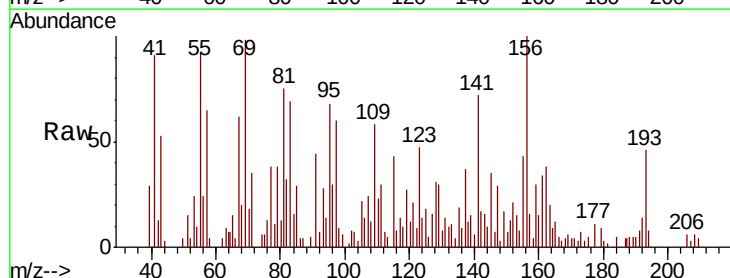
Acq: 21 Dec 2018 14:53

Tgt Ion: 91 Resp: 766

Ion Ratio Lower Upper

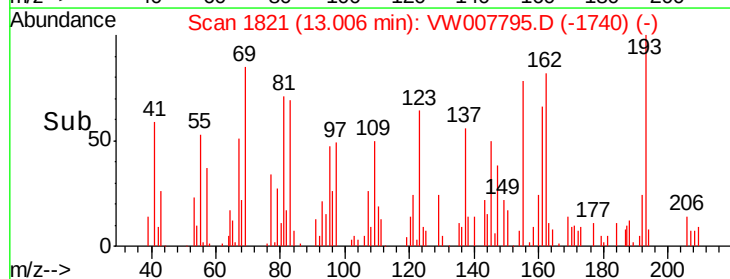
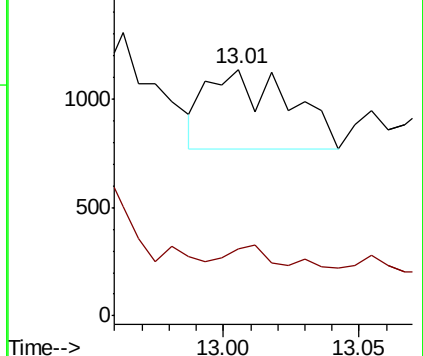
91 100

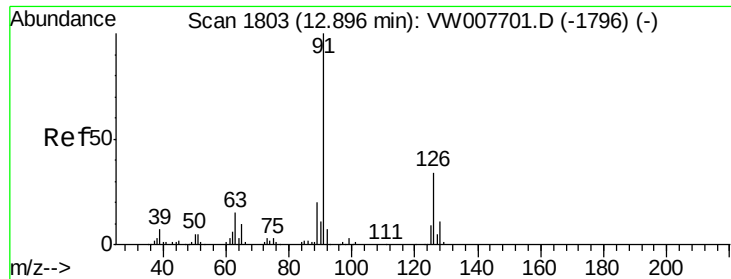
120 18.1 11.9 35.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

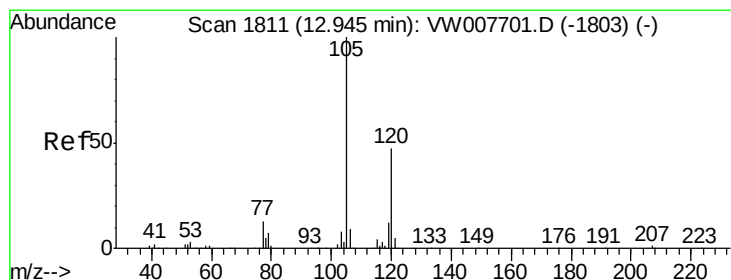
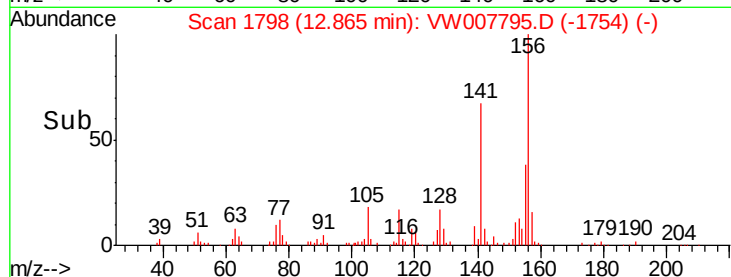
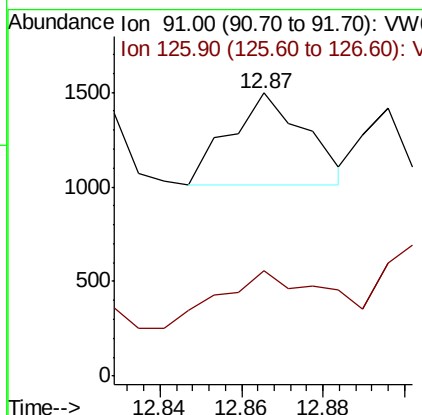
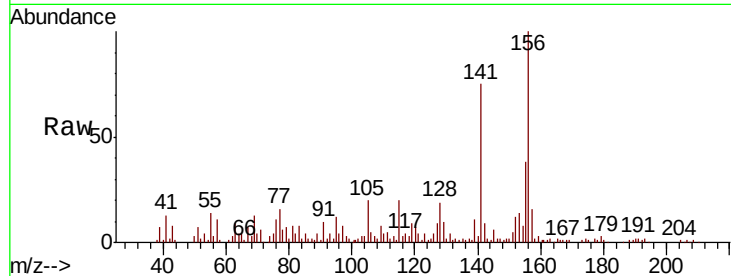




#79  
2-Chlorotoluene  
Concen: 2.191 ug/l  
RT: 12.87 min Scan# 1798  
Delta R.T. -0.03 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

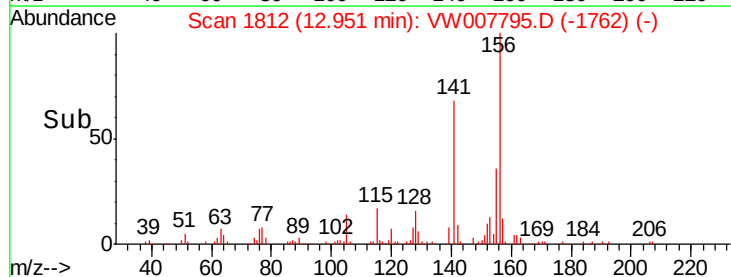
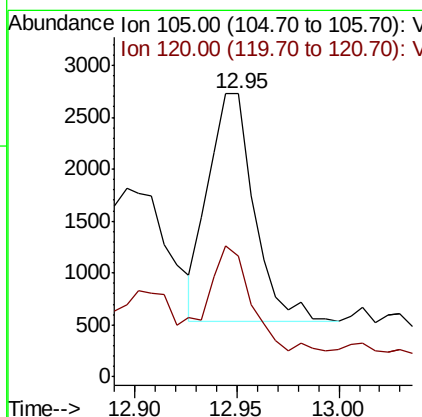
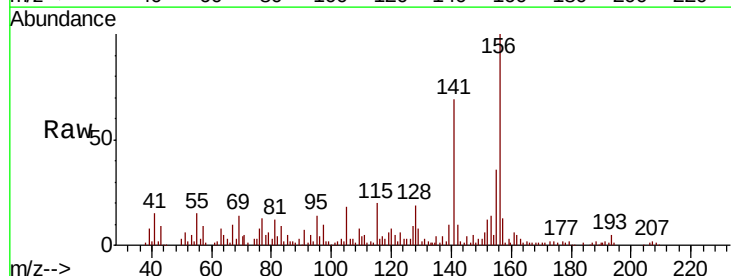
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 91 Resp: 622  
Ion Ratio Lower Upper  
91 100  
126 94.5 17.0 51.0#

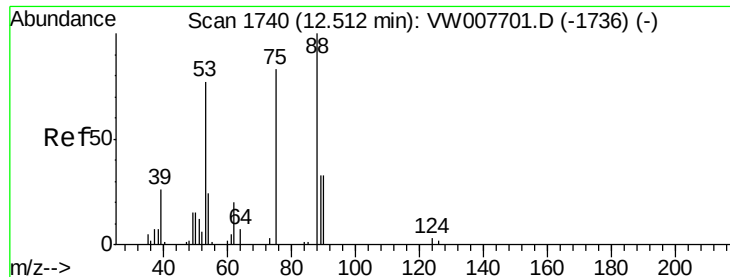


#80  
1,3,5-Trimethylbenzene  
Concen: 9.563 ug/l  
RT: 12.95 min Scan# 1812  
Delta R.T. 0.01 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion:105 Resp: 3453  
Ion Ratio Lower Upper  
105 100  
120 37.5 23.6 70.8







#81

trans-1,4-Dichloro-2-butene

Concen: 8.386 ug/l

RT: 12.51 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

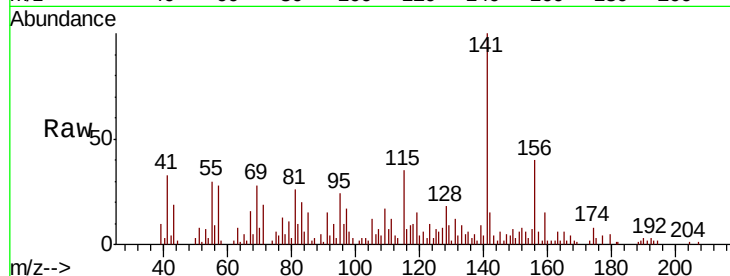
Tot Ion: 75 Resp: 171

Ion Ratio Lower Upper

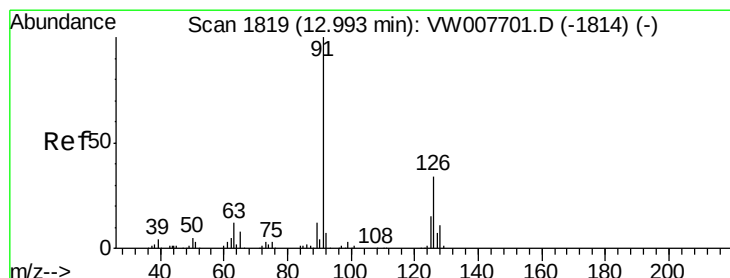
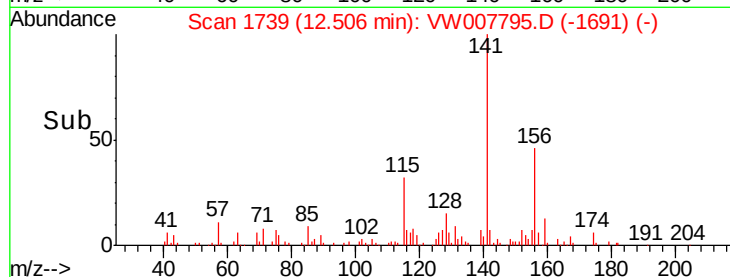
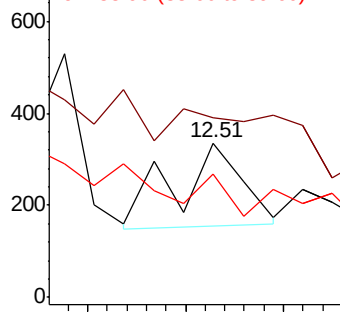
75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 53.00 (52.70 to 53.70): VW  
Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 2.534 ug/l

RT: 13.01 min Scan# 1821

Delta R.T. 0.01 min

Lab File: VW007795.D

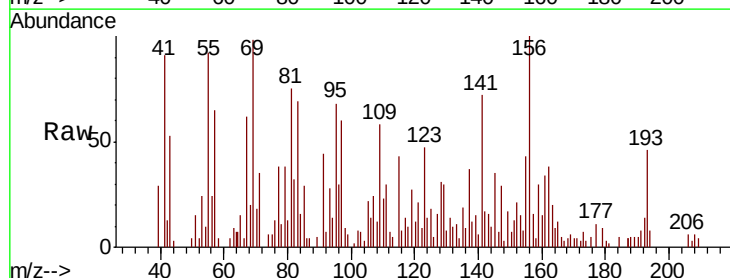
Acq: 21 Dec 2018 14:53

Tgt Ion: 91 Resp: 766

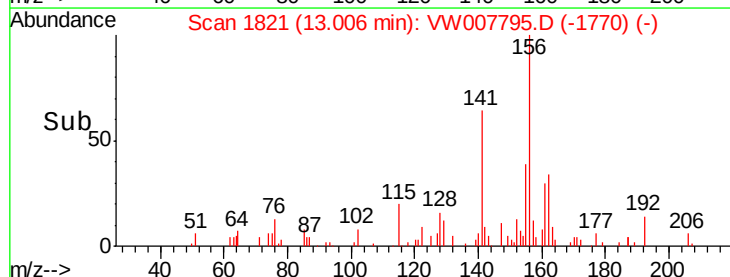
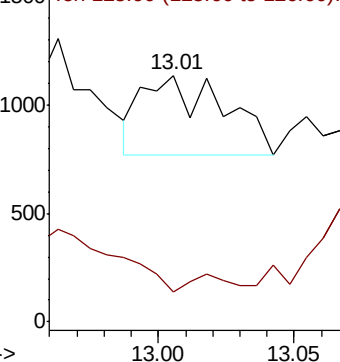
Ion Ratio Lower Upper

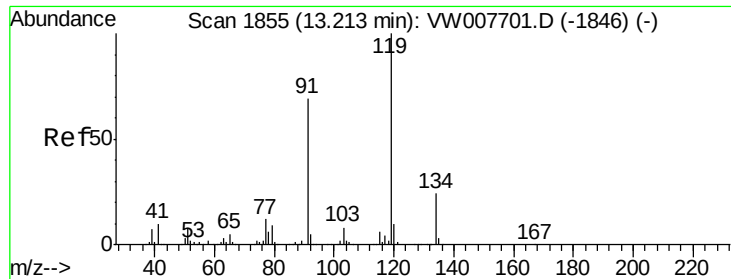
91 100

126 0.0 16.5 49.5#



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 125.90 (125.60 to 126.60): V

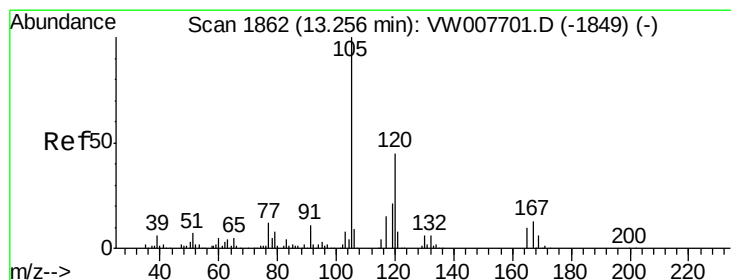
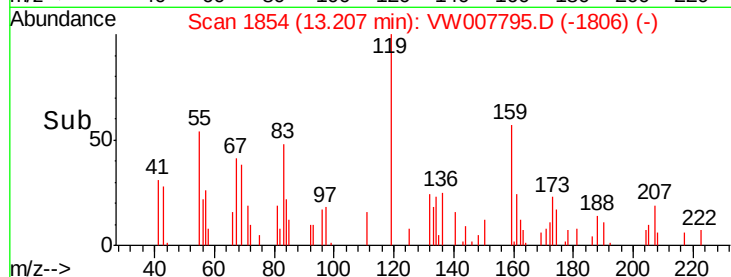
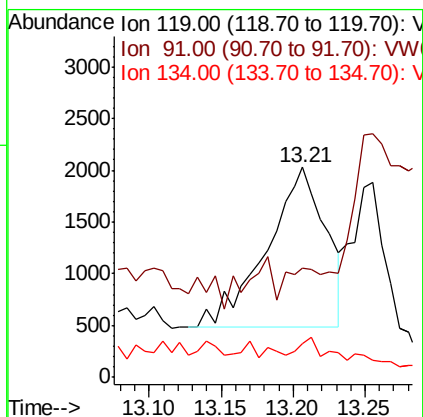
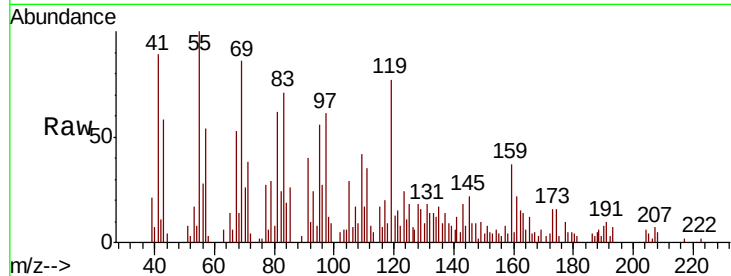




#83  
tert-Butylbenzene  
Concen: 13.957 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

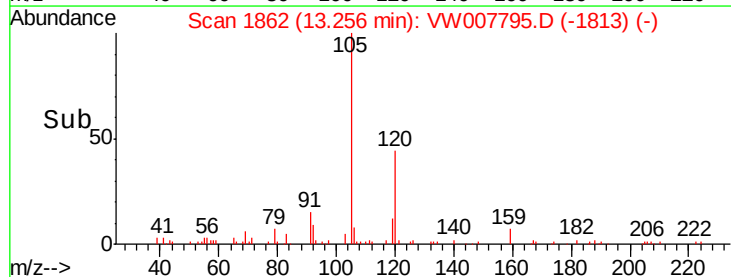
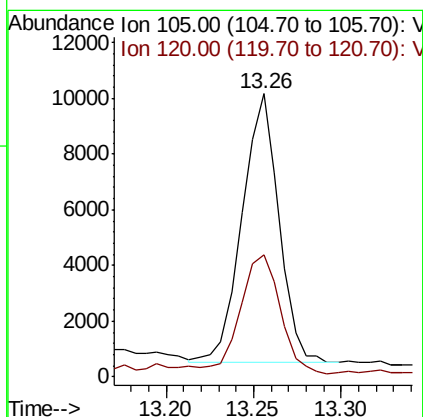
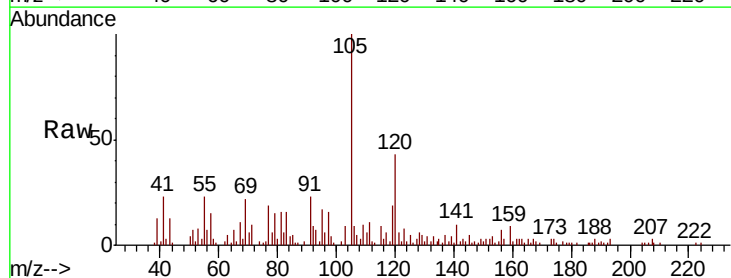
Instrument :  
MSVOA\_W  
ClientSampled :

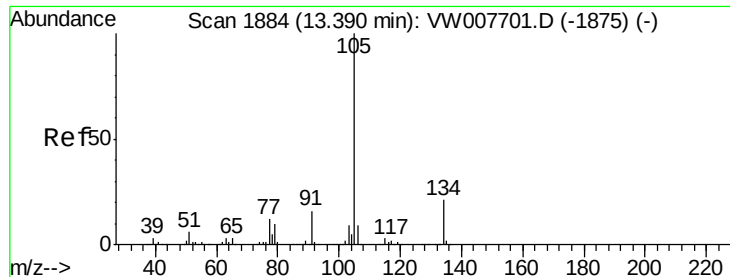
Tot Ion:119 Resp: 4422  
Ion Ratio Lower Upper  
119 100  
91 11.1 34.2 102.5#  
134 5.6 12.8 38.4#



#84  
1,2,4-Trimethylbenzene  
Concen: 38.449 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion:105 Resp: 14009  
Ion Ratio Lower Upper  
105 100  
120 48.1 22.0 66.0





#85

sec-Butylbenzene

Concen: 19.039 ug/l

RT: 13.46 min Scan# 1895

Delta R.T. 0.07 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

Instrument :

MSVOA\_W

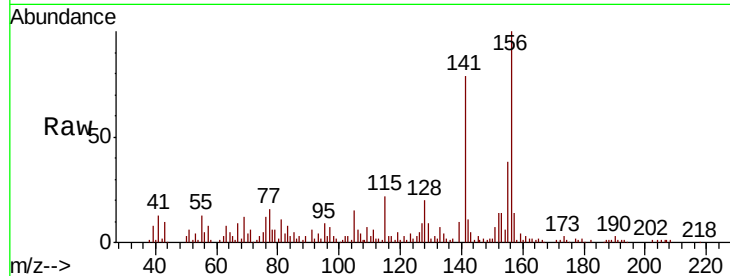
ClientSampleId :

Tot Ion:105 Resp: 8313

Ion Ratio Lower Upper

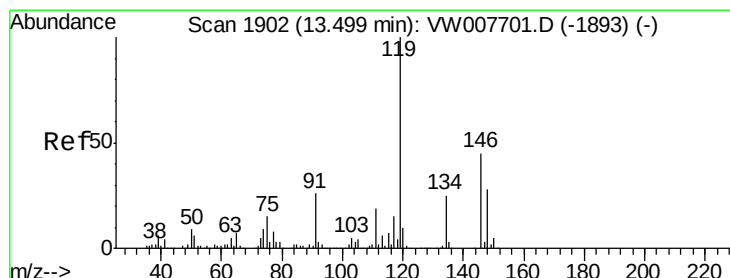
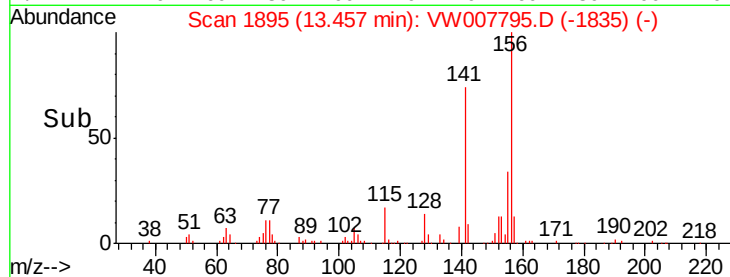
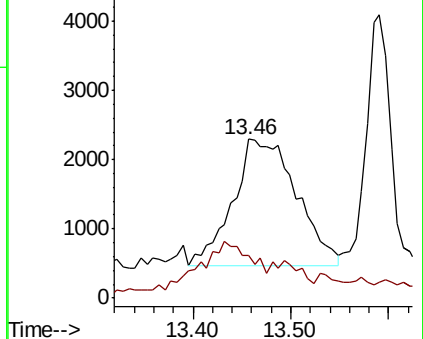
105 100

134 0.0 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 8.861 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW007795.D

Acq: 21 Dec 2018 14:53

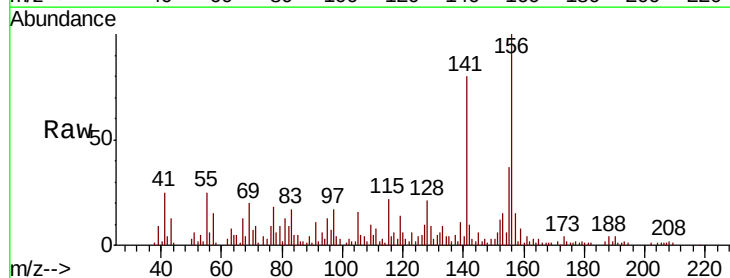
Tgt Ion:119 Resp: 3518

Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

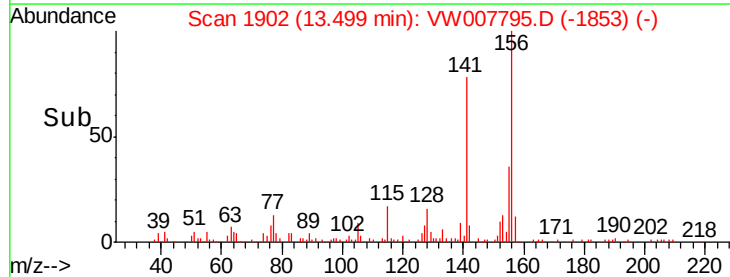
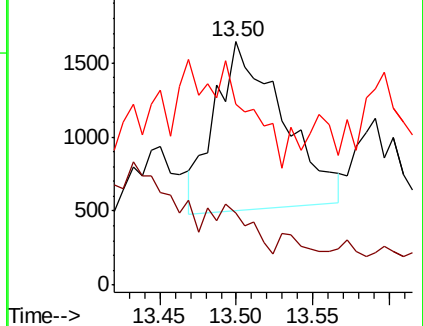
91 0.0 12.8 38.4#

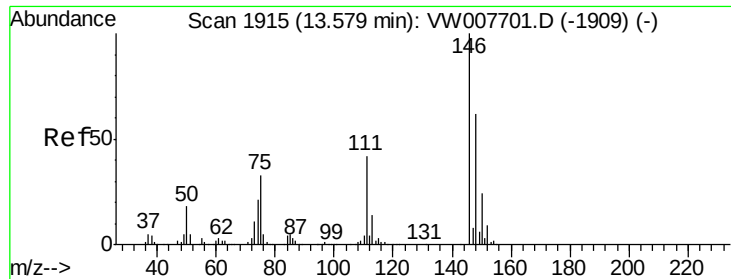


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

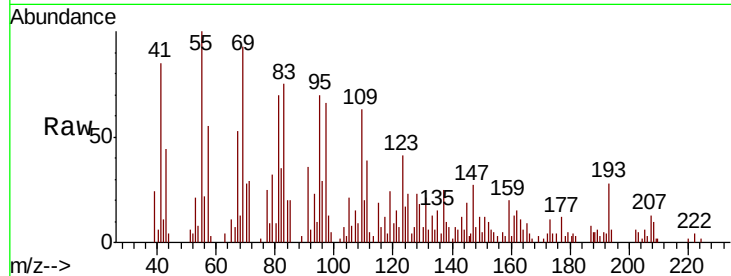




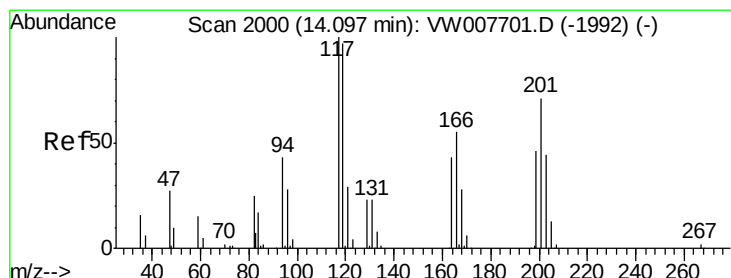
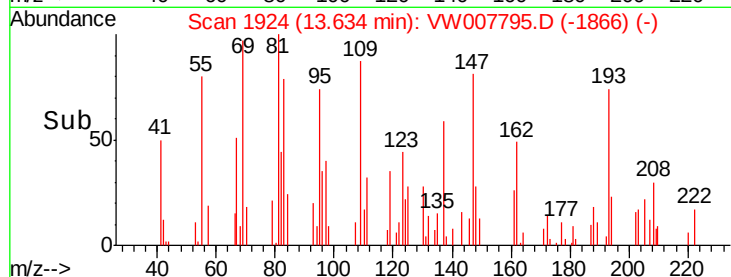
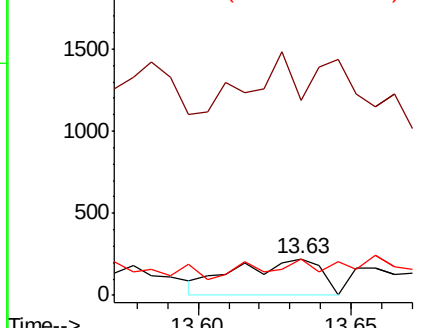
#88  
1,4-Dichlorobenzene  
Concen: 2.267 ug/l  
RT: 13.63 min Scan# 1924  
Delta R.T. 0.05 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:146 Resp: 432  
Ion Ratio Lower Upper  
146 100  
111 74.5 21.0 63.0#  
148 7.2 31.8 95.4#

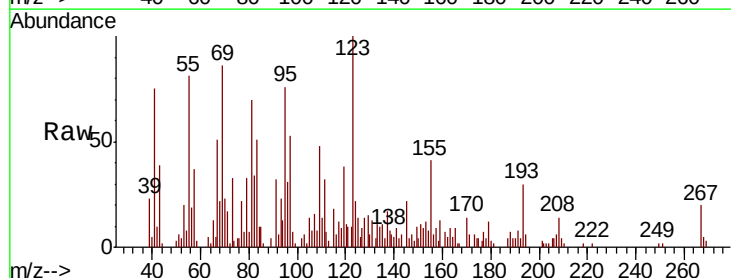


Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V

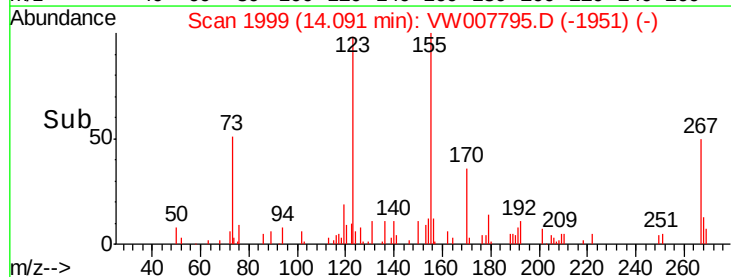
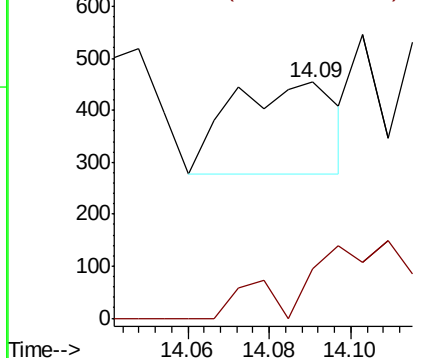


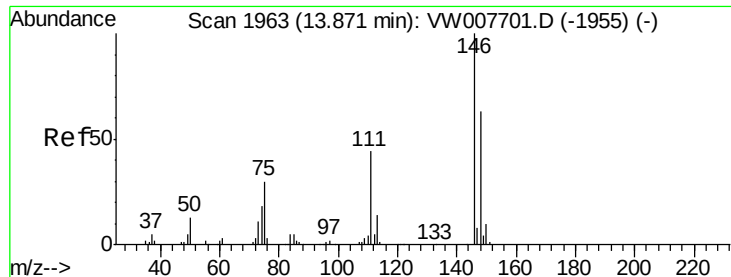
#90  
Hexachloroethane  
Concen: 4.519 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.01 min  
Lab File: VW007795.D  
Acq: 21 Dec 2018 14:53

Tgt Ion:117 Resp: 315  
Ion Ratio Lower Upper  
117 100  
201 92.1 36.2 108.6



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V

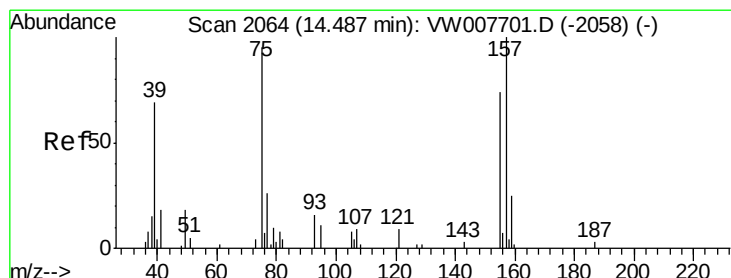
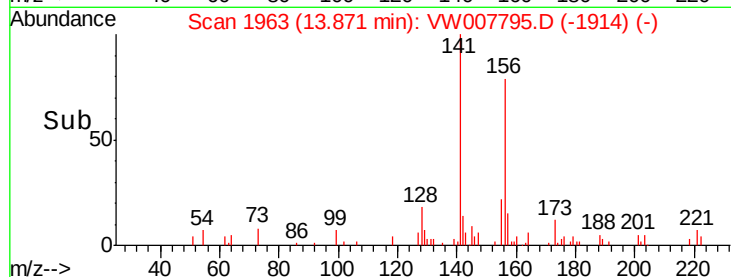
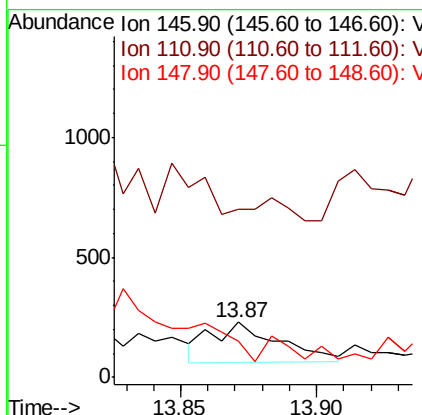
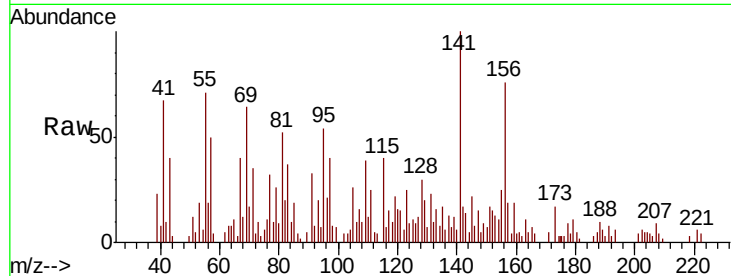




#91  
 1,2-Dichlorobenzene  
 Concen: 1.706 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

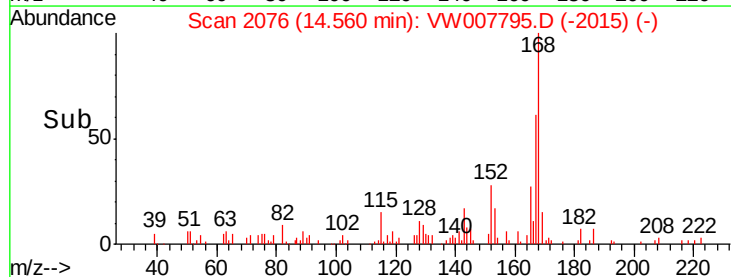
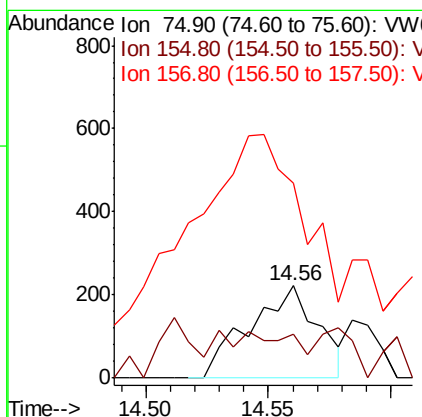
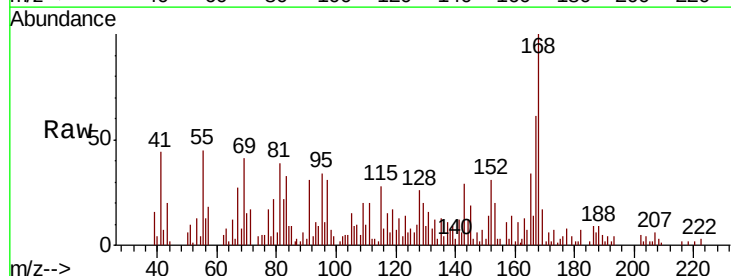
Instrument :  
 MSVOA\_W  
 ClientSampled :

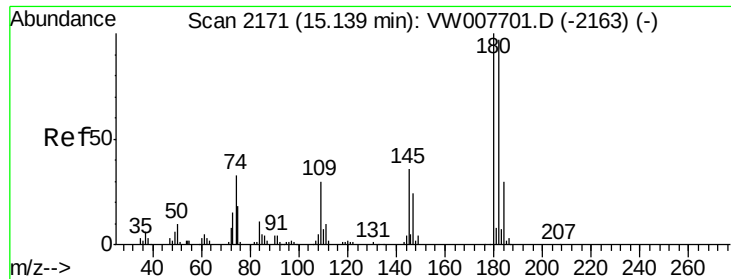
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 21.7  | 65.1# |
| 148     | 23.0  | 32.1  | 96.5# |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 33.671 ug/l  
 RT: 14.56 min Scan# 2076  
 Delta R.T. 0.07 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 0.0   | 39.4  | 118.1# |
| 157     | 349.8 | 52.0  | 156.0# |

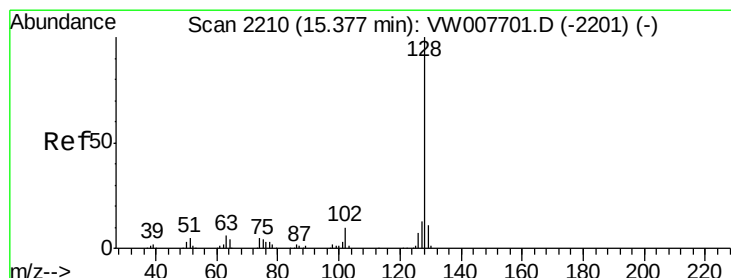
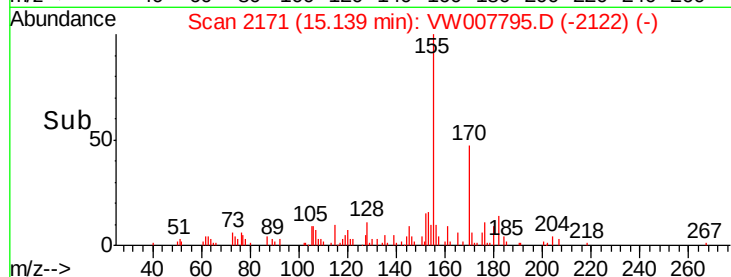
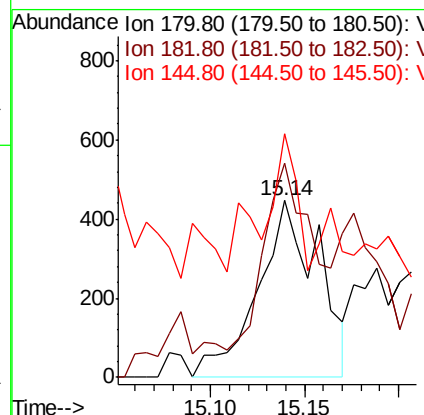
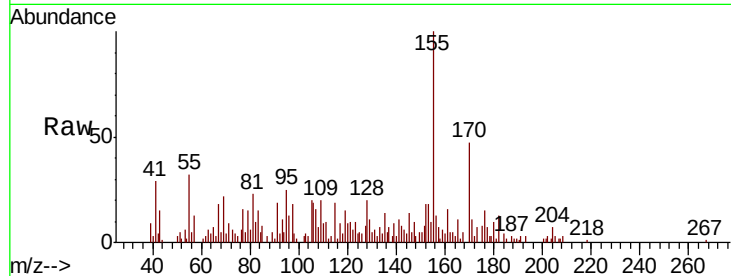




#93  
 1,2,4-Trichlorobenzene  
 Concen: 8.456 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

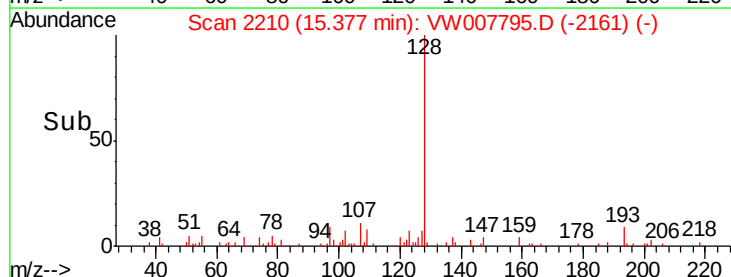
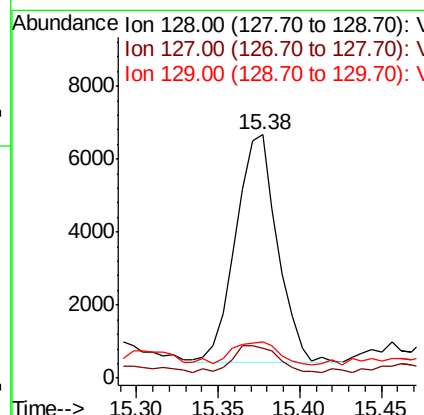
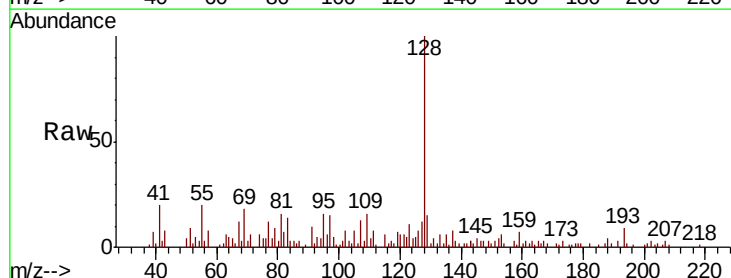
Instrument :  
 MSVOA\_W  
 ClientSampleId :

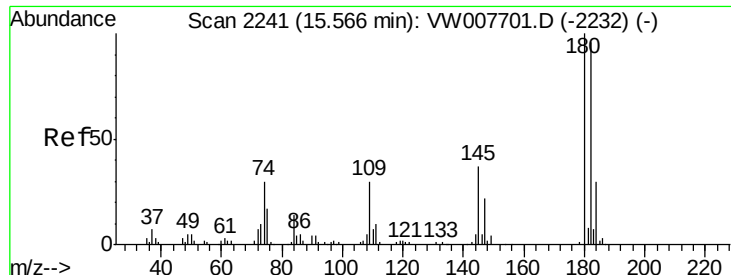
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 106.6 | 47.5  | 142.6 |
| 145     | 41.8  | 17.5  | 52.5  |



#95  
 Naphthalene  
 Concen: 50.953 ug/l  
 RT: 15.38 min Scan# 2210  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.7  | 16.1  |
| 129     | 10.6  | 8.8   | 13.2  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.477 ug/l  
 RT: 15.57 min Scan# 2241  
 Delta R.T. -0.00 min  
 Lab File: VW007795.D  
 Acq: 21 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 67.7  | 47.4  | 142.2 |
| 145     | 0.0   | 18.4  | 55.0  |

