

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082119\  
 Data File : VW012058.D  
 Acq On : 21 Aug 2019 08:57  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 22 07:42:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 247442   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 389817   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 335231   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 162343   | 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   | 147584   | 51.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.88% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 122304   | 55.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.84% |          |
| 50) Toluene-d8              | 10.32 | 98   | 496945   | 55.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.00% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 173237   | 54.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.54% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 69106    | 50.112  | ug/l  | 93     |
| 3) Chloromethane              | 2.21 | 50   | 109647   | 45.853  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.36 | 62   | 143723   | 49.923  | ug/l  | 100    |
| 5) Bromomethane               | 2.78 | 94   | 72934    | 45.769  | ug/l  | 98     |
| 6) Chloroethane               | 2.92 | 64   | 84271    | 51.245  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 75297    | 58.523  | ug/l  | 97     |
| 8) Diethyl Ether              | 3.68 | 74   | 72887    | 49.964  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 127419   | 52.206  | ug/l  | 100    |
| 10) Methyl Iodide             | 4.27 | 142  | 174084   | 50.472  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.18 | 59   | 44354    | 208.567 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 131520   | 51.036  | ug/l  | 95     |
| 13) Acrolein                  | 3.89 | 56   | 47616    | 233.557 | ug/l  | 99     |
| 14) Allyl chloride            | 4.67 | 41   | 284643   | 51.932  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 179919   | 247.069 | ug/l  | 99     |
| 16) Acetone                   | 4.12 | 43   | 212833   | 235.482 | ug/l  | 97     |
| 17) Carbon Disulfide          | 4.39 | 76   | 376714   | 46.706  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 94769    | 46.675  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 209603   | 51.255  | ug/l  | 97     |
| 20) Methylene Chloride        | 4.92 | 84   | 140596   | 45.105  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 140033   | 50.402  | ug/l  | 95     |
| 22) Diisopropyl ether         | 6.31 | 45   | 520154   | 50.335  | ug/l  | 97     |
| 23) Vinyl Acetate             | 6.25 | 43   | 1627356  | 250.622 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 280471   | 50.678  | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 278548   | 235.524 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 161710   | 47.511  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 152549   | 49.889  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 126081   | 51.325  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.53 | 42   | 160684   | 237.689 | ug/l  | 100    |
| 30) Chloroform                | 7.67 | 83   | 254174   | 49.781  | ug/l  | 98     |
| 31) Cyclohexane               | 7.95 | 56   | 258919   | 48.737  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 205303   | 52.798  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 216160   | 53.328  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 114668   | 49.171  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 186355   | 53.705  | ug/l  | 98     |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 22 07:42:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 241368   | 54.079   | ug/l  | 96       |
| 40) Benzene                    | 8.32  | 78   | 582778   | 51.329   | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 69377    | 49.768   | ug/l  | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 177970   | 50.066   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 220391   | 51.388   | ug/l  | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 142652   | 52.275   | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 157729   | 51.921   | ug/l  | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 70709    | 50.996   | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.64  | 83   | 187121   | 51.448   | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 105134   | 51.032   | ug/l  | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 20803    | 1036.194 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 558288   | 250.264  | ug/l  | 100      |
| 52) Toluene                    | 10.39 | 92   | 358553   | 52.294   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 196806   | 51.800   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 235316   | 52.091   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 100474   | 51.072   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 150605   | 52.315   | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 188677   | 50.693   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 427708   | 327.222  | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 417582   | 265.117  | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 113616   | 52.028   | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 94364    | 50.686   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 116858   | 53.538   | ug/l  | 95       |
| 65) Chlorobenzene              | 11.66 | 112  | 356788   | 52.938   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 124067   | 52.848   | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 693884   | 54.057   | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 501100   | 107.346  | ug/l  | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 233671   | 53.868   | ug/l  | 99       |
| 70) Styrene                    | 12.18 | 104  | 404989   | 53.997   | ug/l  | 99       |
| 71) Bromoform                  | 12.35 | 173  | 63297    | 52.882   | ug/l  | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 655950   | 54.161   | ug/l  | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 199564   | 52.632   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 116678   | 51.217   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 82088m   | 47.787   | ug/l  |          |
| 77) Bromobenzene               | 12.75 | 156  | 139997   | 52.297   | ug/l  | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 800541   | 54.313   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 450771   | 53.086   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 550756   | 54.250   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 39977    | 53.635   | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 471553   | 52.929   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 469134   | 55.259   | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 544839   | 53.275   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 670038   | 55.312   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 602040   | 54.776   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 272894   | 51.991   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 268983   | 51.515   | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 600592   | 54.757   | ug/l  | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 105544   | 54.306   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 240802   | 51.870   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 19794    | 50.953   | ug/l  | 99       |

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Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

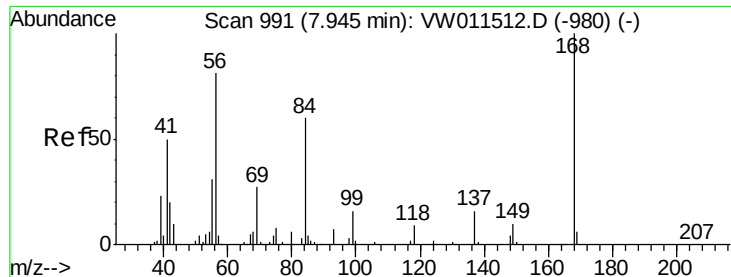
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 22 07:42:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 175030   | 53.496 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 111989   | 54.887 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 317679   | 49.586 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 153221   | 53.425 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

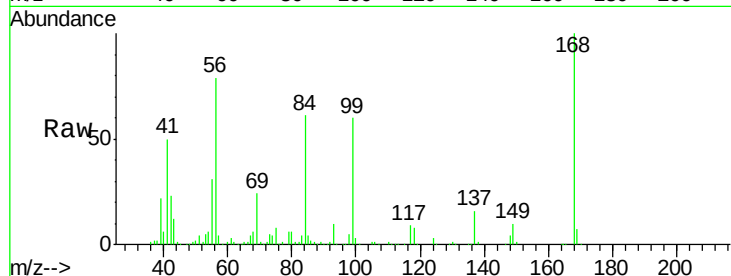
VSTDCCC050

Tot Ion:168 Resp: 247442

Ion Ratio Lower Upper

168 100

99 59.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

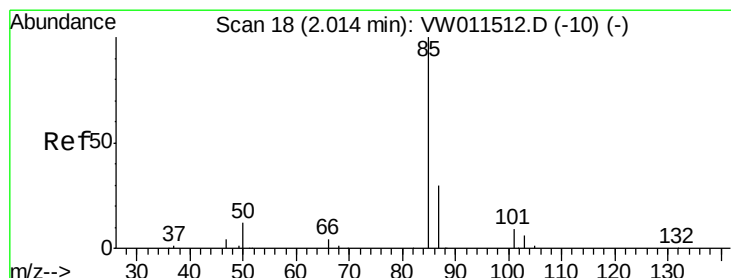
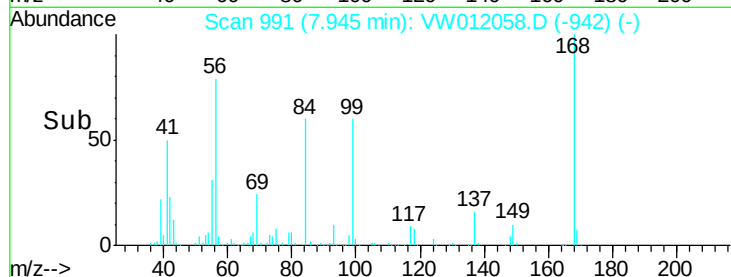
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 50.112 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW012058.D

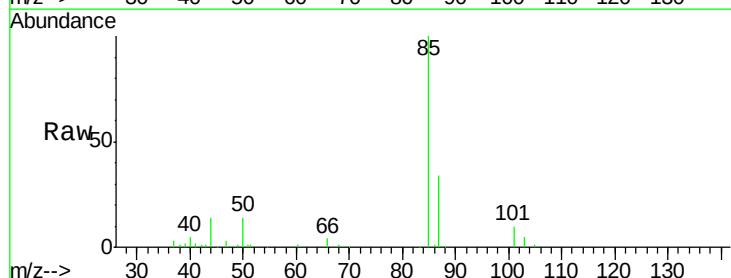
Acq: 21 Aug 2019 08:57

Tgt Ion: 85 Resp: 69106

Ion Ratio Lower Upper

85 100

87 34.0 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

25000

20000

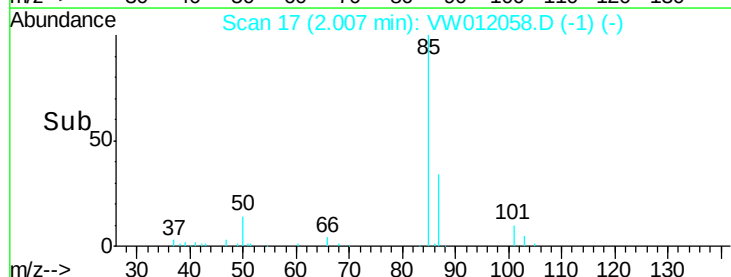
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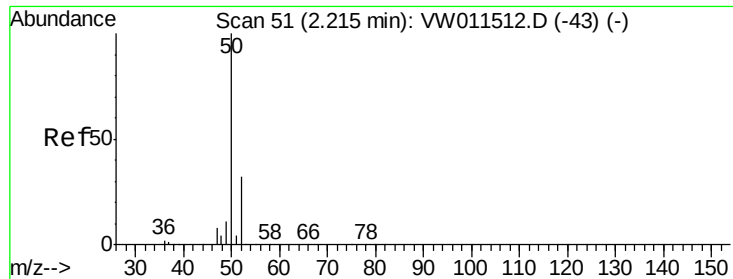
10000

5000

0

Time--> 1.90 2.00 2.10 2.20 2.30





#3

Chloromethane

Concen: 45.853 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

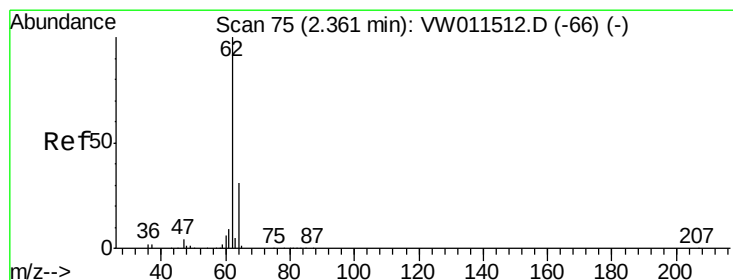
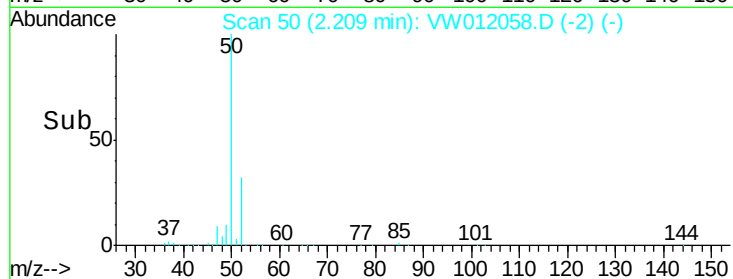
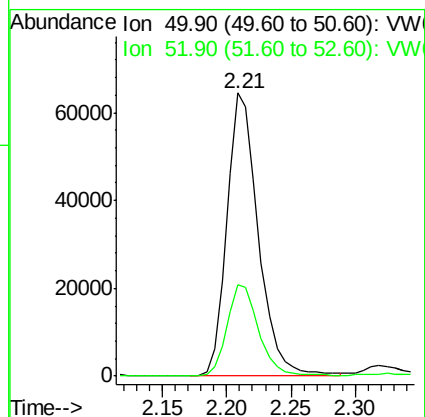
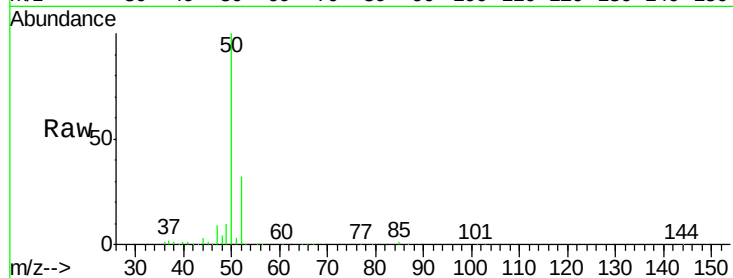
VSTDCCC050

Tot Ion: 50 Resp: 109647

Ion Ratio Lower Upper

50 100

52 32.2 25.4 38.2



#4

Vinyl Chloride

Concen: 49.923 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012058.D

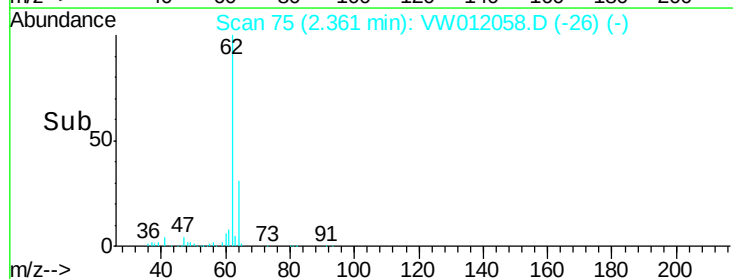
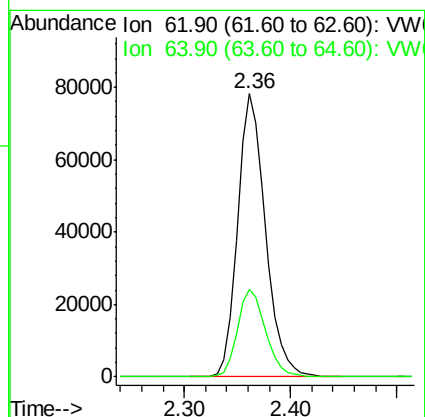
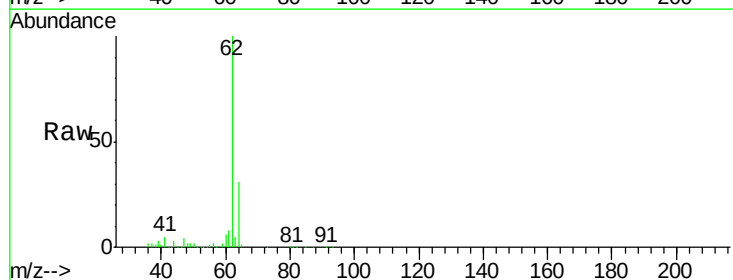
Acq: 21 Aug 2019 08:57

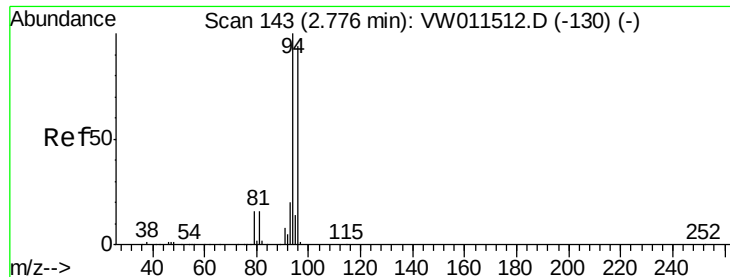
Tgt Ion: 62 Resp: 143723

Ion Ratio Lower Upper

62 100

64 31.0 25.0 37.4





#5

Bromomethane

Concen: 45.769 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

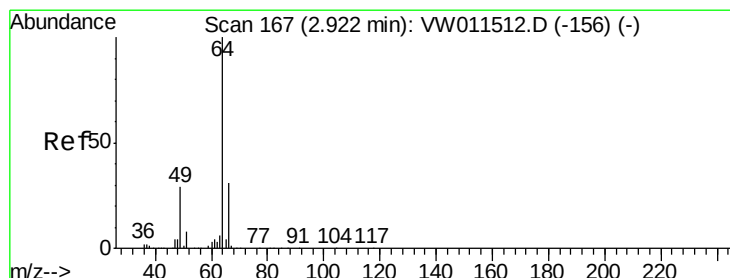
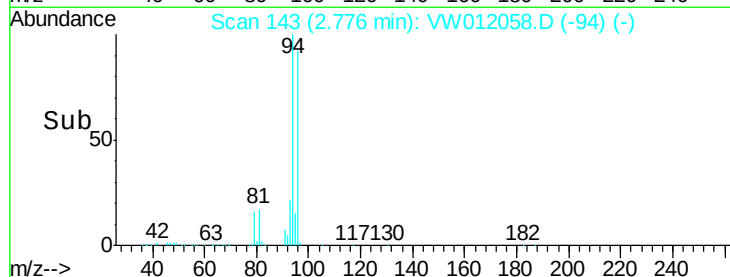
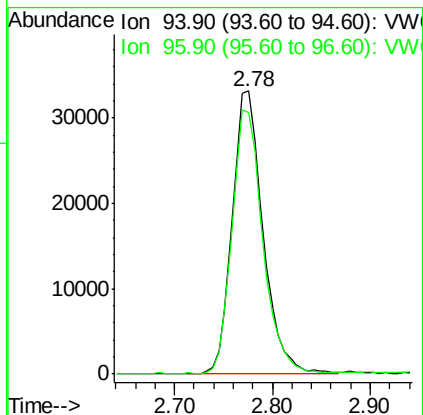
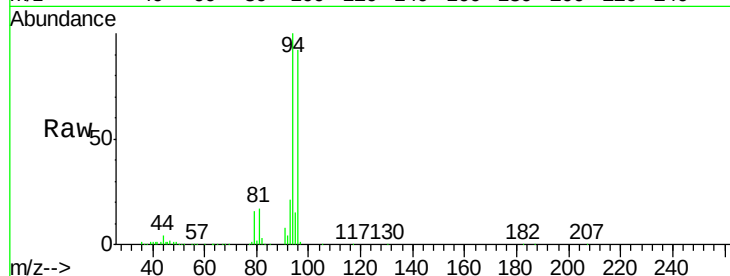
VSTDCCC050

Tot Ion: 94 Resp: 72934

Ion Ratio Lower Upper

94 100

96 91.8 75.0 112.6



#6

Chloroethane

Concen: 51.245 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW012058.D

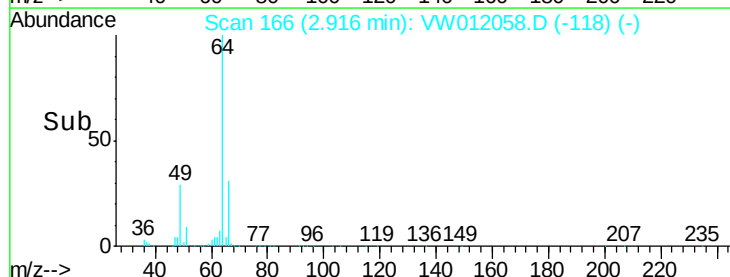
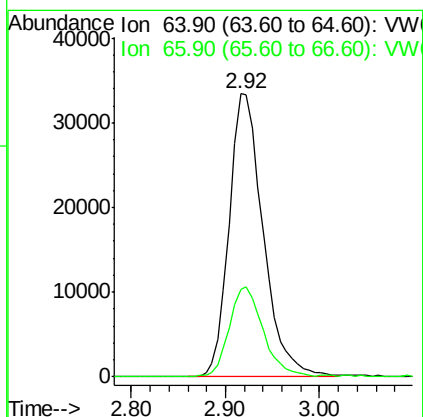
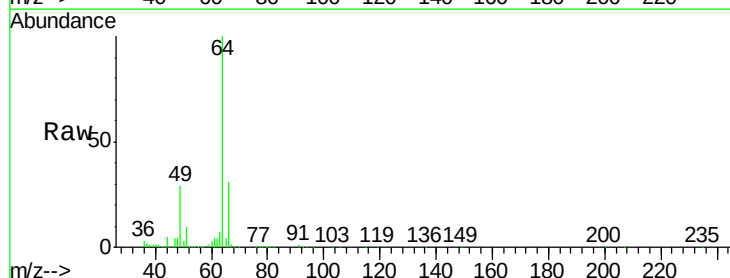
Acq: 21 Aug 2019 08:57

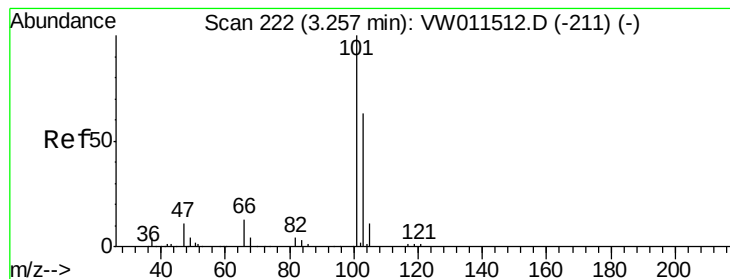
Tgt Ion: 64 Resp: 84271

Ion Ratio Lower Upper

64 100

66 30.7 24.6 36.8



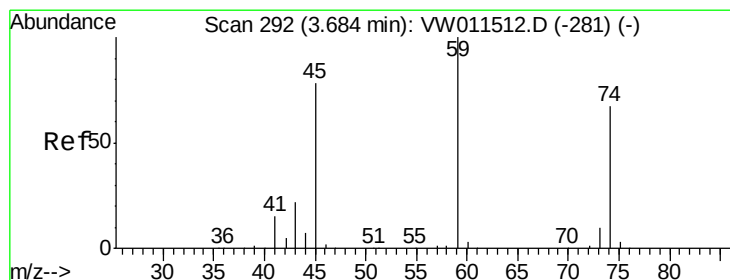
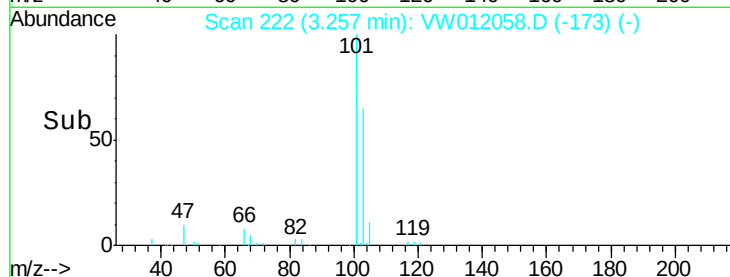
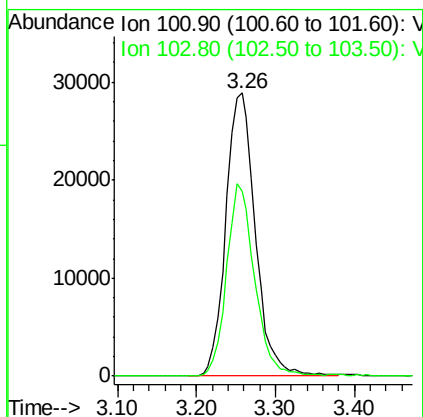
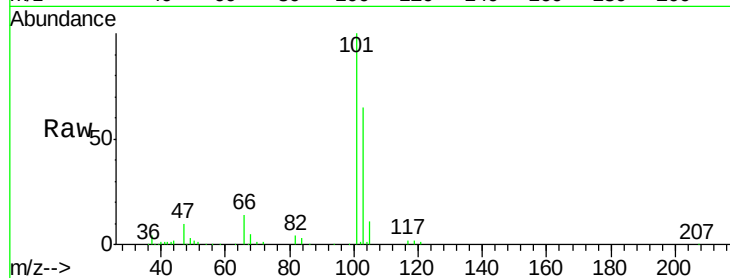


#7

Trichlorofluoromethane  
 Concen: 58.523 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

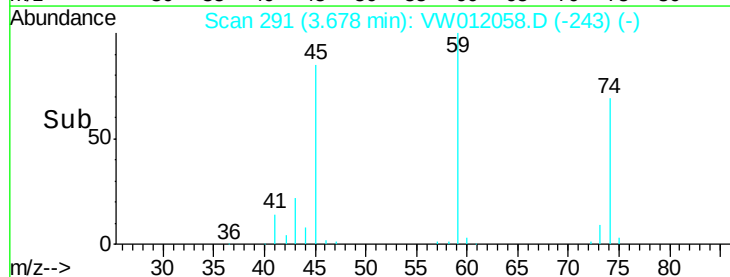
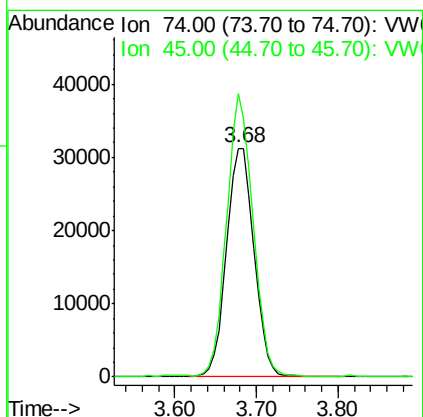
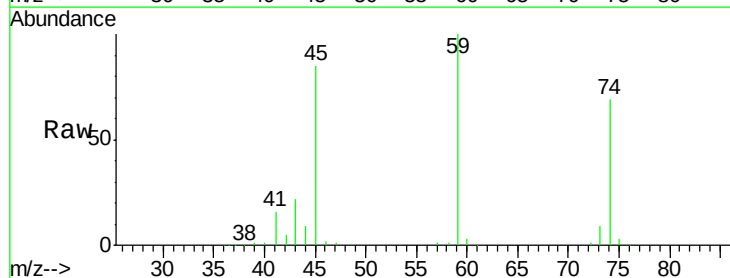
Tot Ion:101 Resp: 75297  
 Ion Ratio Lower Upper  
 101 100  
 103 65.4 50.2 75.4



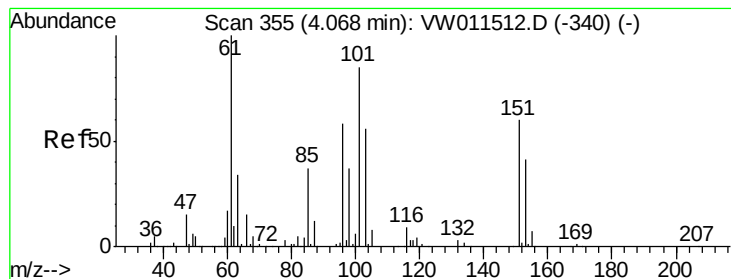
#8

Diethyl Ether  
 Concen: 49.964 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.01 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion: 74 Resp: 72887  
 Ion Ratio Lower Upper  
 74 100  
 45 117.8 59.6 178.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.206 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

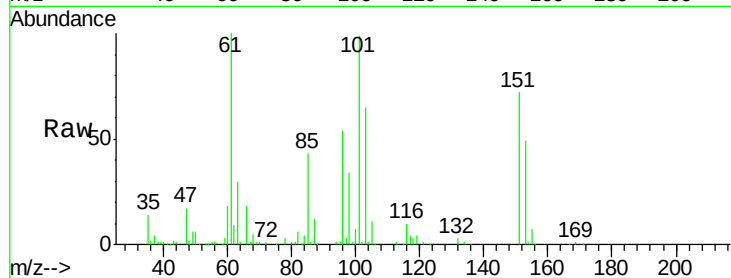
Tot Ion:101 Resp: 127419

Ion Ratio Lower Upper

101 100

85 45.3 36.6 54.8

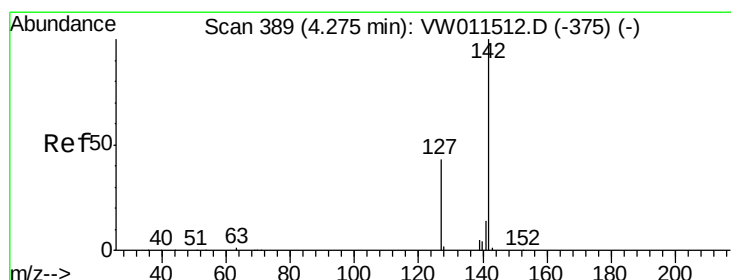
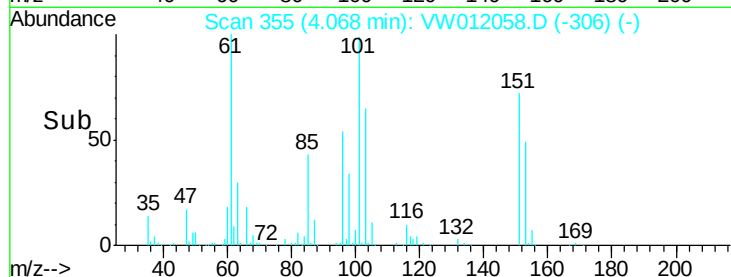
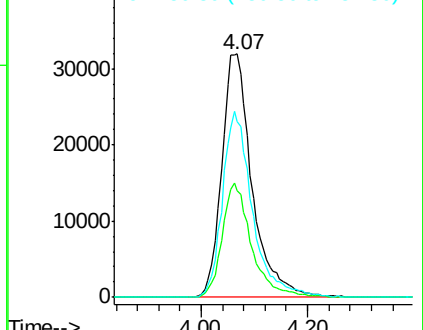
151 75.1 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 50.472 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

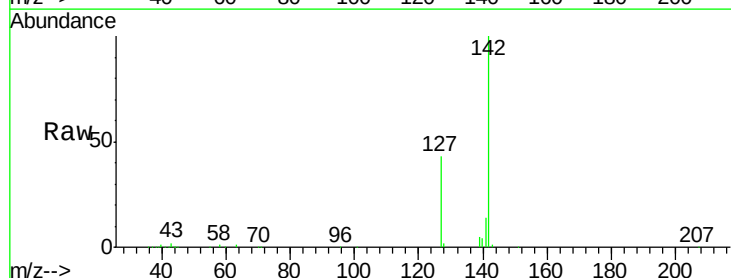
Tgt Ion:142 Resp: 174084

Ion Ratio Lower Upper

142 100

127 43.7 35.0 52.6

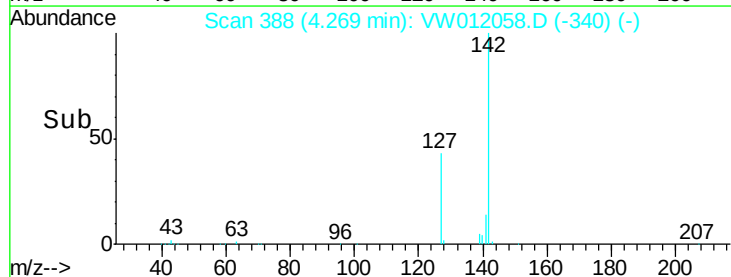
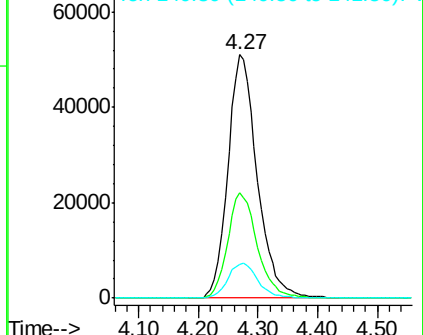
141 14.9 11.9 17.9

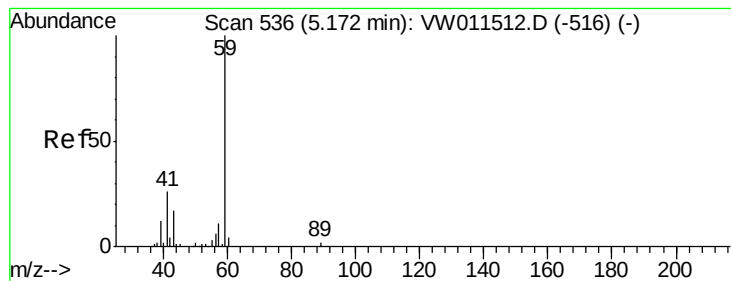


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



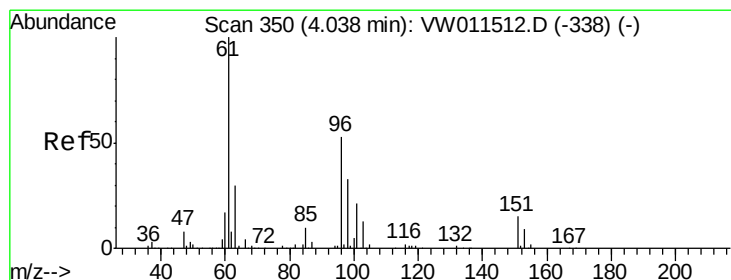
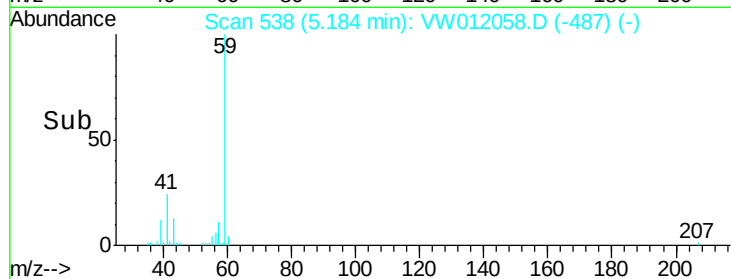
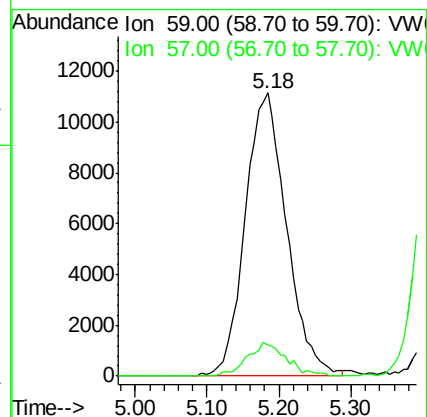
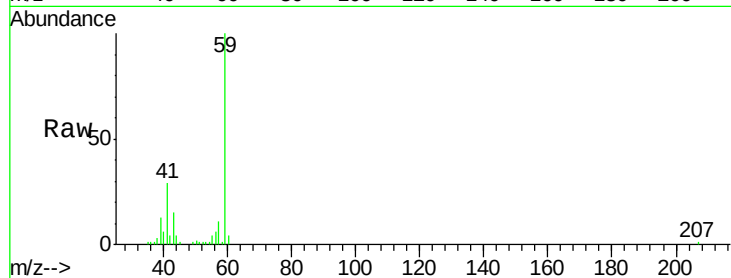


#11

Tert butyl alcohol  
 Concen: 208.567 ug/l  
 RT: 5.18 min Scan# 538  
 Delta R.T. 0.01 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

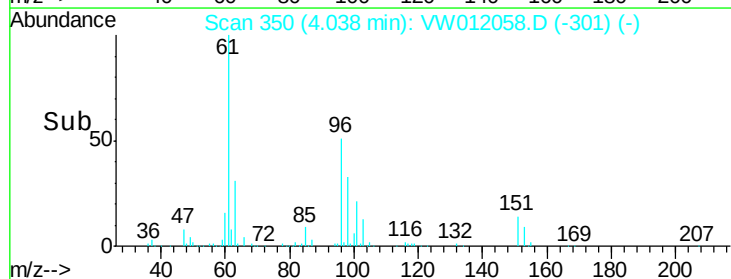
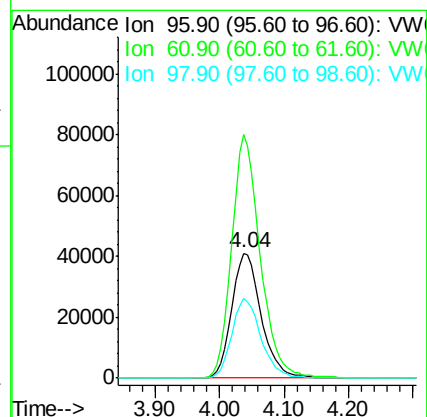
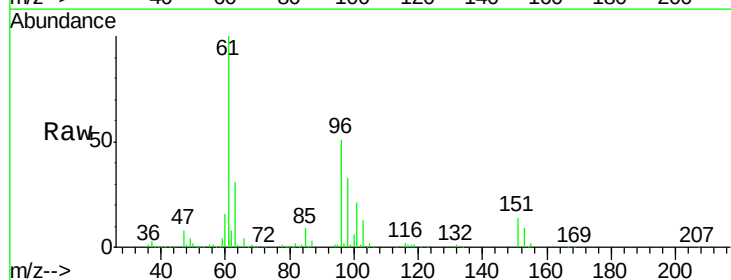
Tot Ion: 59 Resp: 44354  
 Ion Ratio Lower Upper  
 59 100  
 57 11.3 8.5 12.7

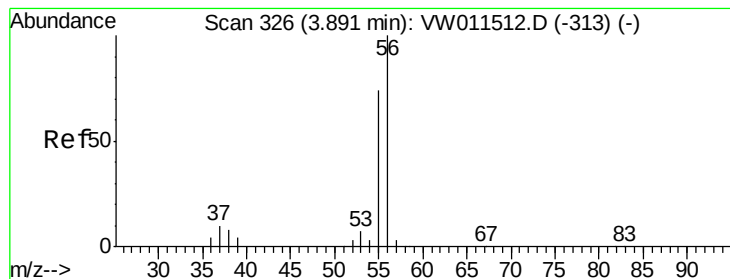


#12

1,1-Dichloroethene  
 Concen: 51.036 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion: 96 Resp: 131520  
 Ion Ratio Lower Upper  
 96 100  
 61 194.9 149.9 224.9  
 98 64.4 49.1 73.7





#13

Acrolein

Concen: 233.557 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

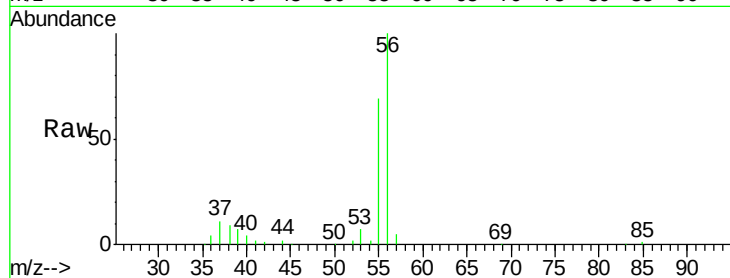
VSTDCCC050

Tot Ion: 56 Resp: 47616

Ion Ratio Lower Upper

56 100

55 70.7 56.0 84.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

20000

15000

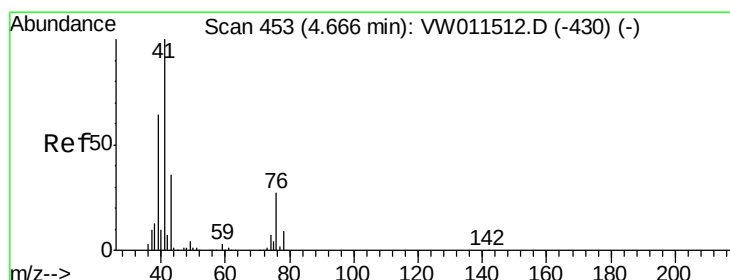
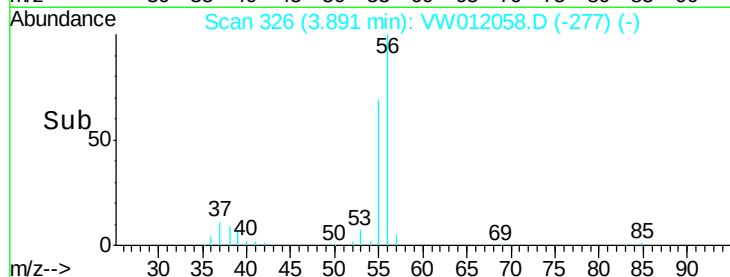
10000

5000

0

Time-->

3.80 3.90 4.00



#14

Allyl chloride

Concen: 51.932 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

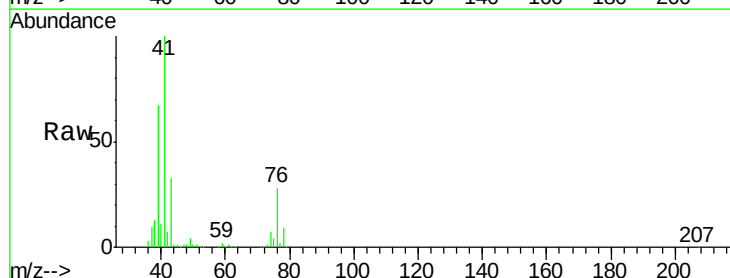
Tgt Ion: 41 Resp: 284643

Ion Ratio Lower Upper

41 100

39 66.4 52.6 78.8

76 28.0 22.0 33.0



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.67

120000

100000

80000

60000

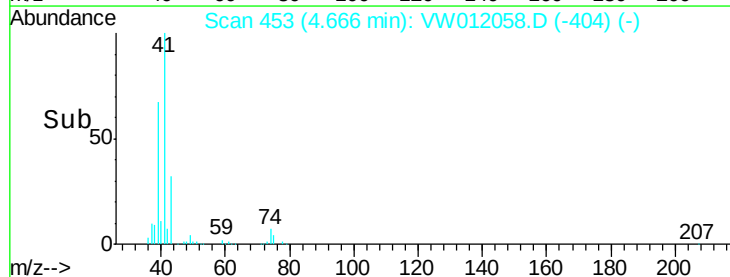
40000

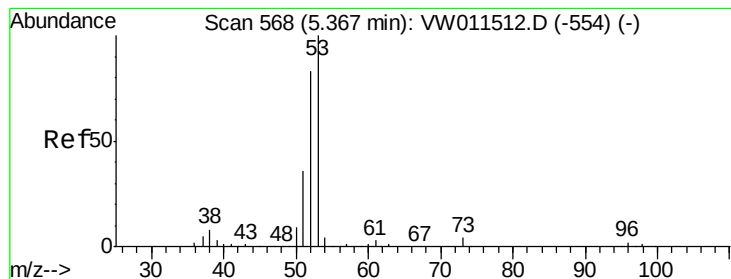
20000

0

Time-->

4.50 4.60 4.70 4.80





#15

Acrylonitrile

Concen: 247.069 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

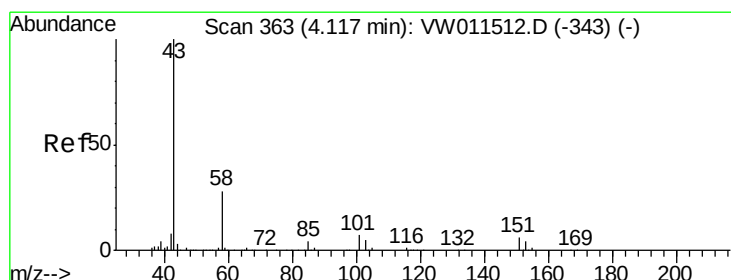
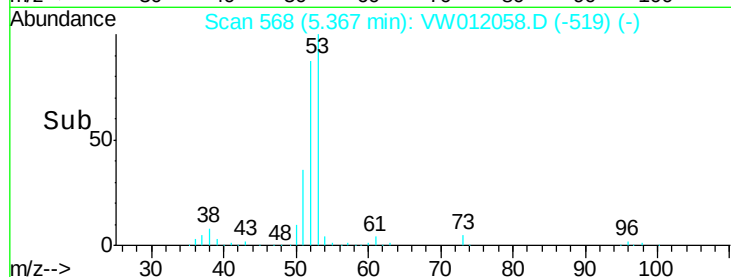
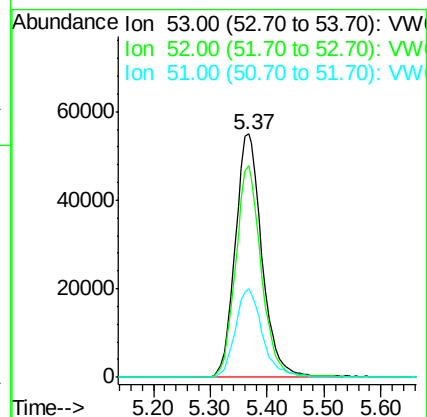
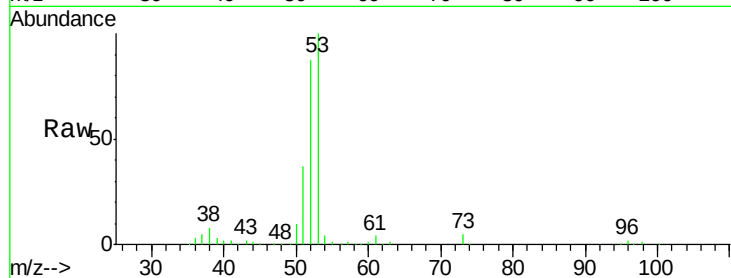
Tot Ion: 53 Resp: 179919

Ion Ratio Lower Upper

53 100

52 83.4 67.2 100.8

51 37.1 30.0 45.0



#16

Acetone

Concen: 235.482 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW012058.D

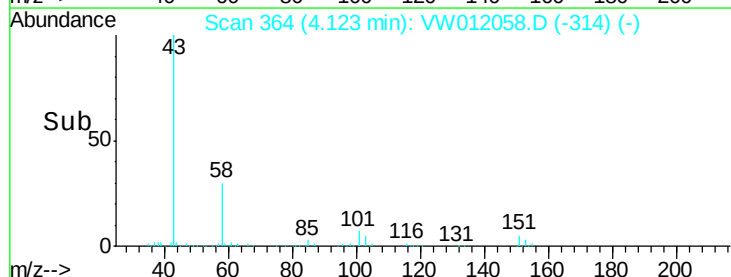
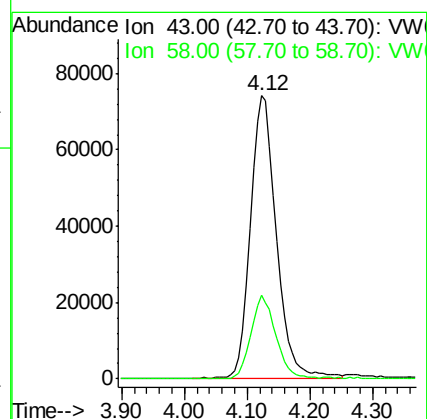
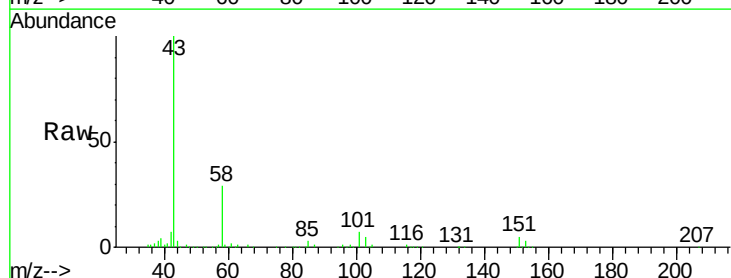
Acq: 21 Aug 2019 08:57

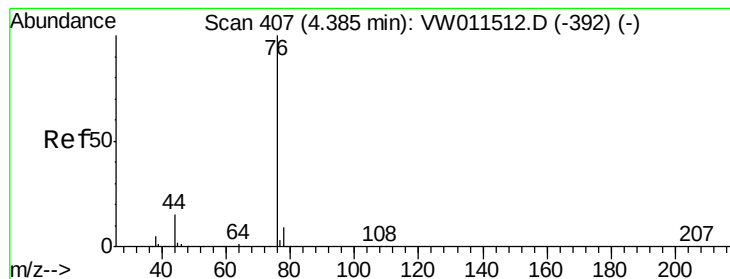
Tgt Ion: 43 Resp: 212833

Ion Ratio Lower Upper

43 100

58 29.5 22.3 33.5





#17

Carbon Disulfide

Concen: 46.706 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

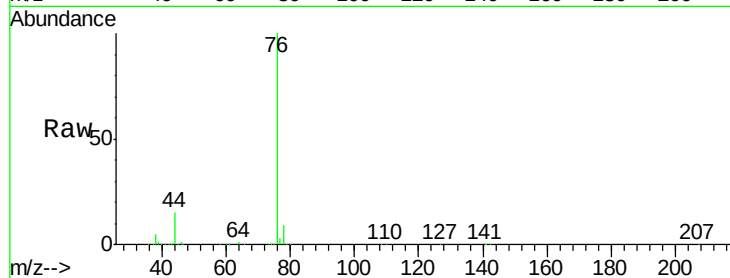
VSTDCCC050

Tot Ion: 76 Resp: 376714

Ion Ratio Lower Upper

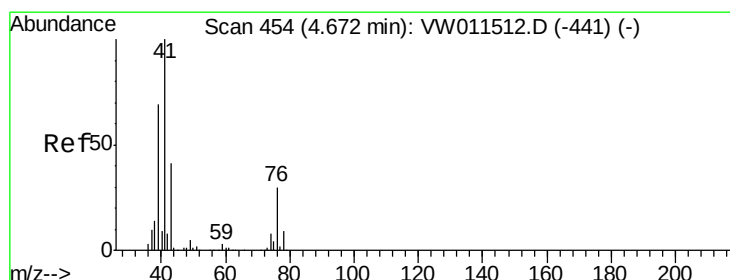
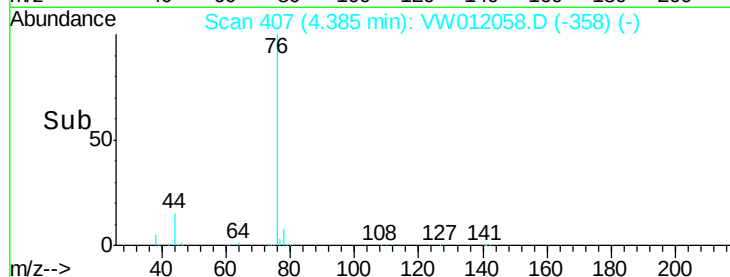
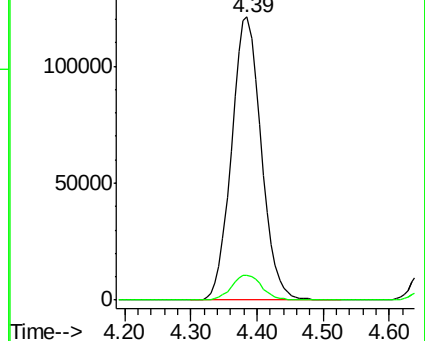
76 100

78 8.7 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 46.675 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW012058.D

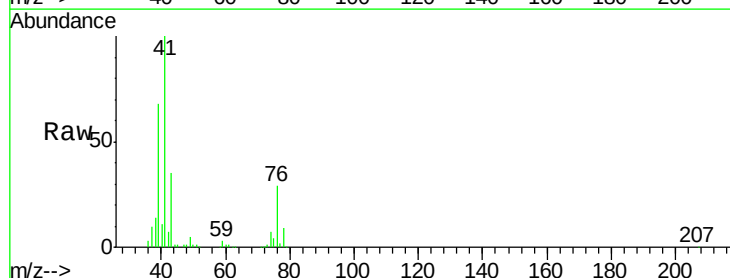
Acq: 21 Aug 2019 08:57

Tgt Ion: 43 Resp: 94769

Ion Ratio Lower Upper

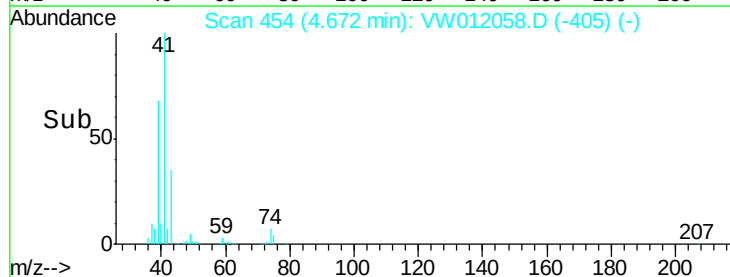
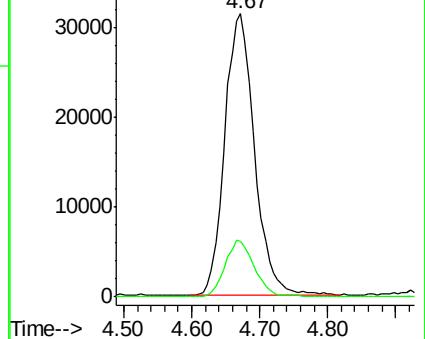
43 100

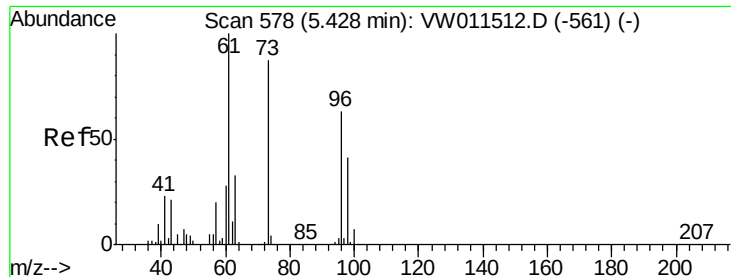
74 19.9 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

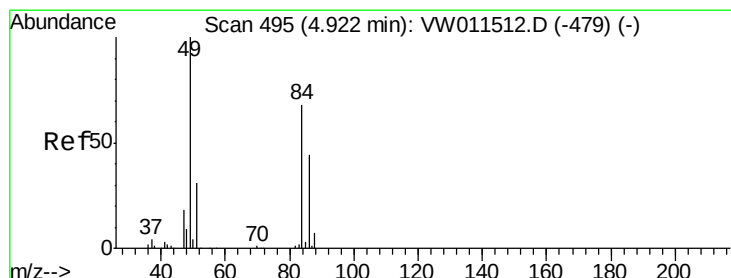
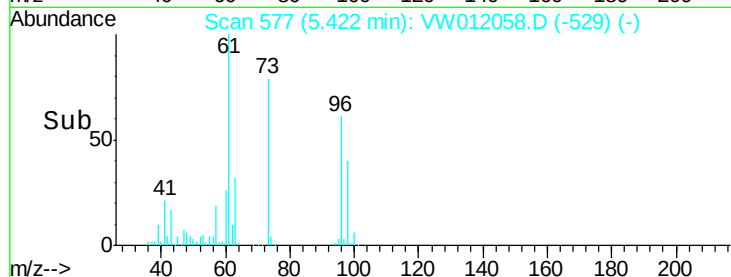
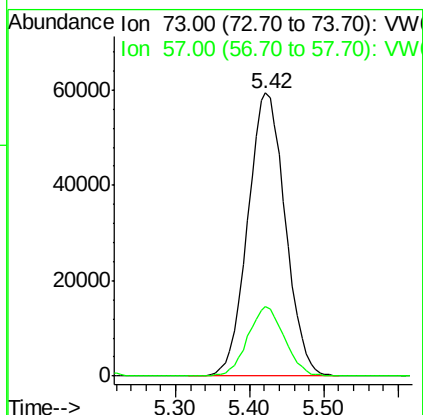
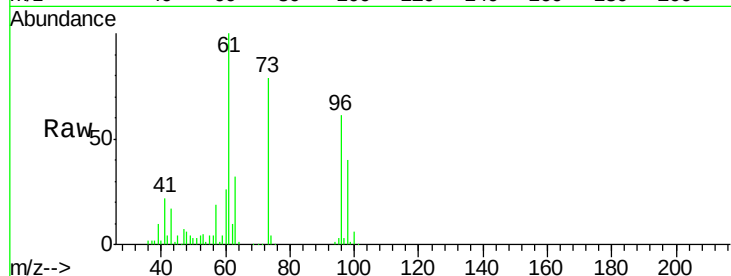




#19  
Methyl tert-butyl Ether  
Concen: 51.255 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

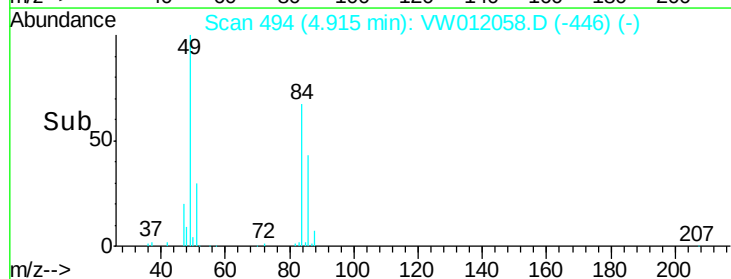
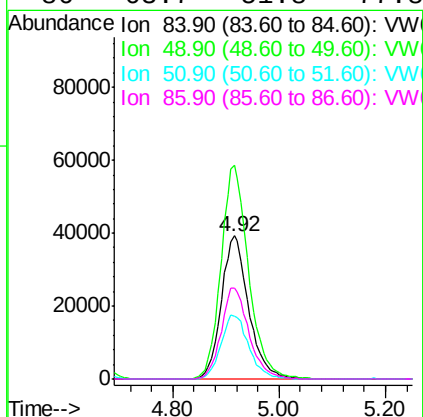
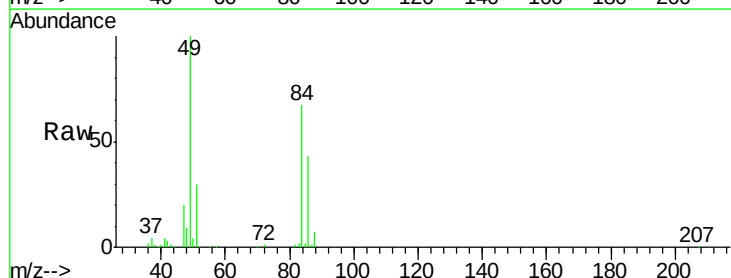
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

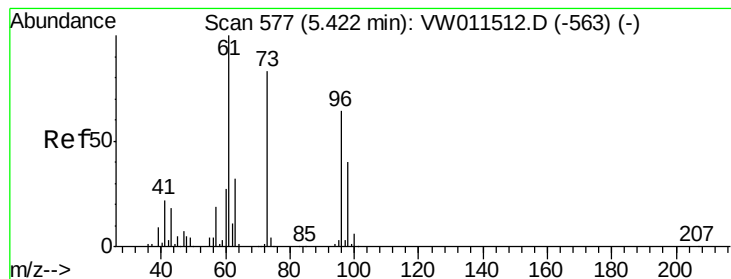
Tot Ion: 73 Resp: 209603  
Ion Ratio Lower Upper  
73 100  
57 24.6 18.4 27.6



#20  
Methylene Chloride  
Concen: 45.105 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 84 Resp: 140596  
Ion Ratio Lower Upper  
84 100  
49 149.4 117.8 176.6  
51 44.3 37.0 55.4  
86 63.7 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 50.402 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

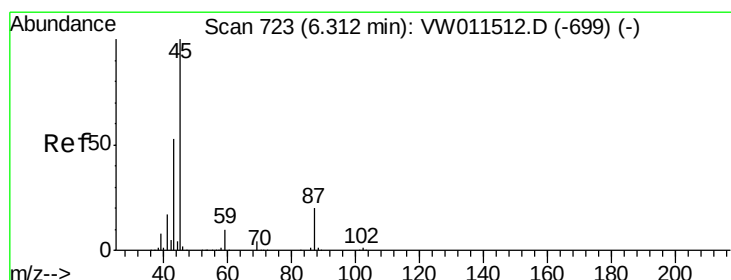
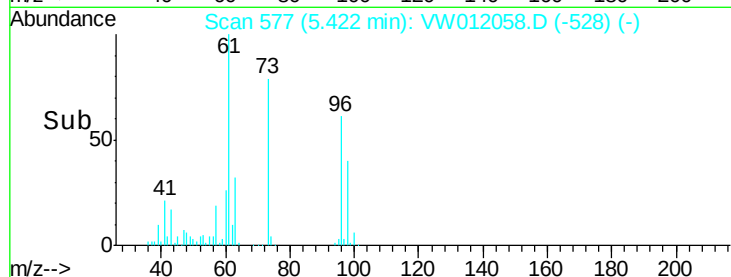
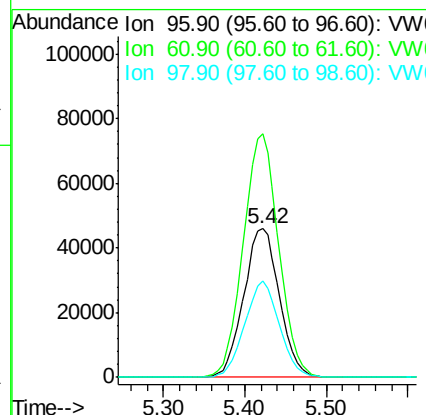
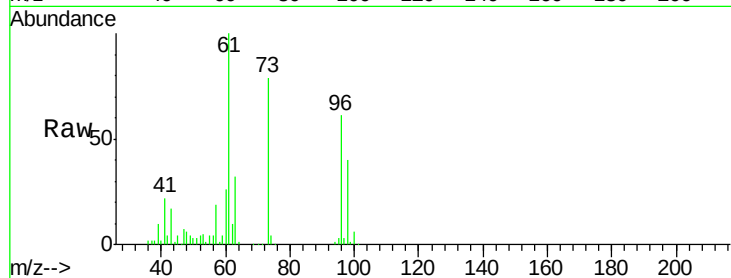
Tot Ion: 96 Resp: 140033

Ion Ratio Lower Upper

96 100

61 164.0 125.7 188.5

98 65.1 50.3 75.5



#22

Diisopropyl ether

Concen: 50.335 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Tgt Ion: 45 Resp: 520154

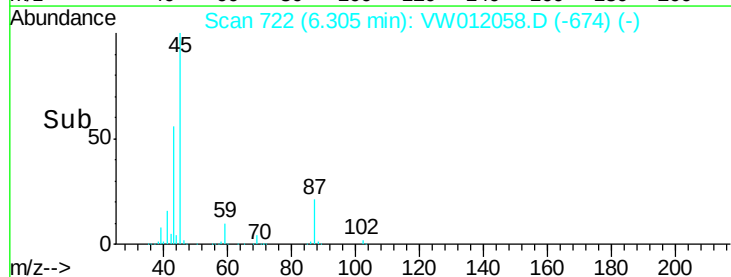
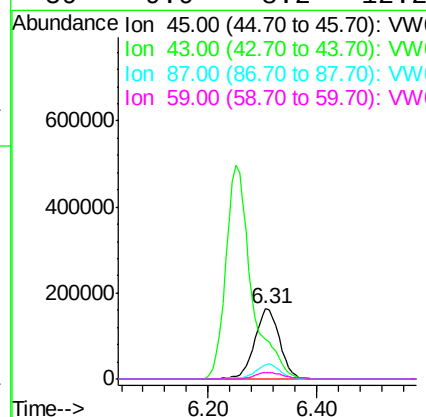
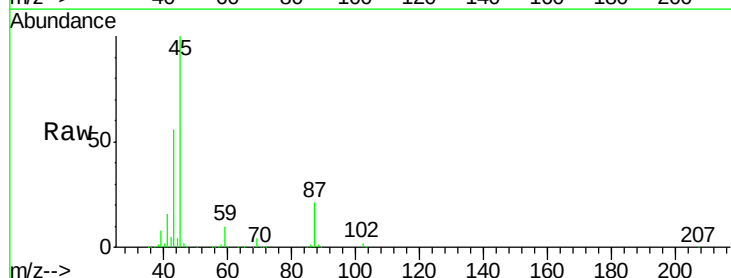
Ion Ratio Lower Upper

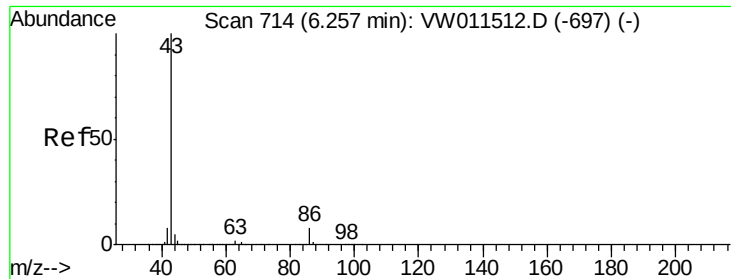
45 100

43 56.1 42.6 63.8

87 21.1 16.4 24.6

59 9.9 8.2 12.2





#23

Vinyl Acetate

Concen: 250.622 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampled :

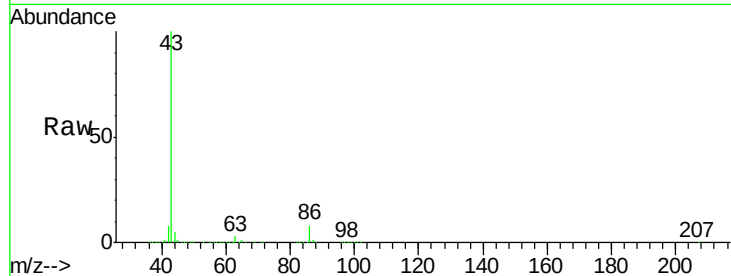
VSTDCCC050

Tot Ion: 43 Resp: 1627356

Ion Ratio Lower Upper

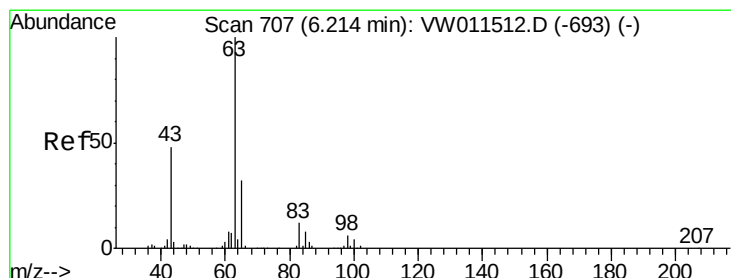
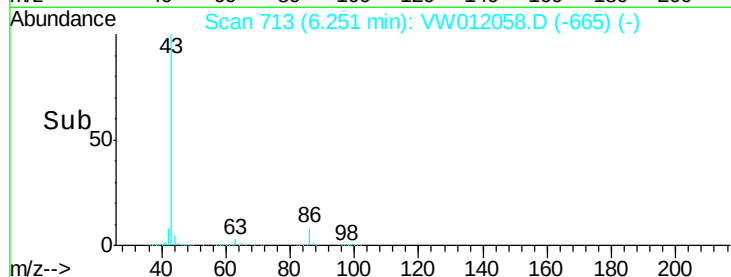
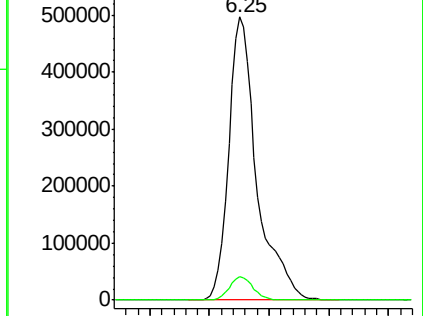
43 100

86 8.3 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 50.678 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

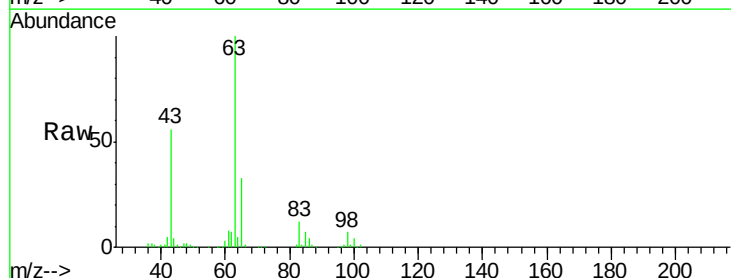
Tgt Ion: 63 Resp: 280471

Ion Ratio Lower Upper

63 100

98 6.5 2.9 8.8

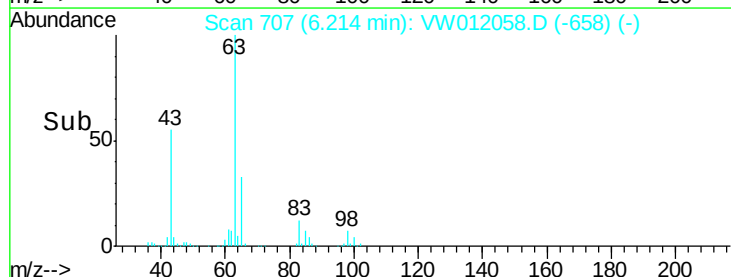
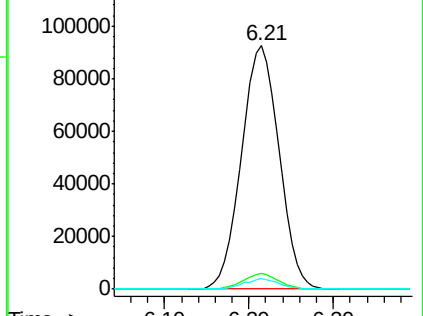
100 4.3 2.1 6.3



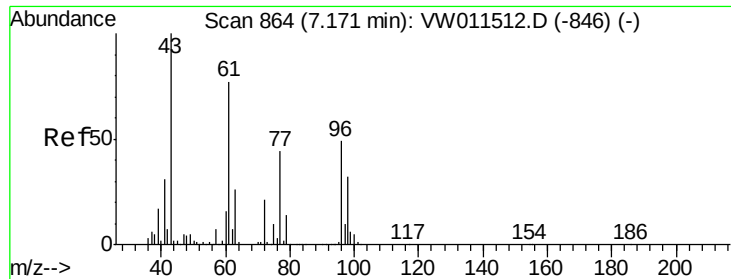
Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW







#25

2-Butanone

Concen: 235.524 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

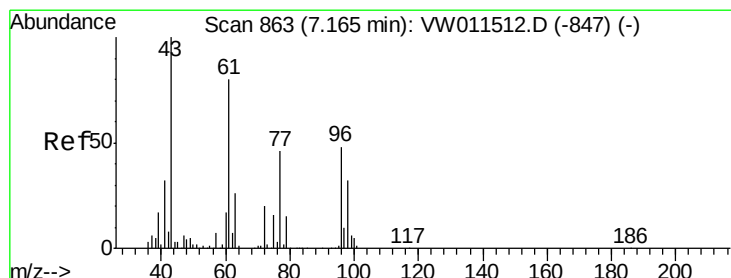
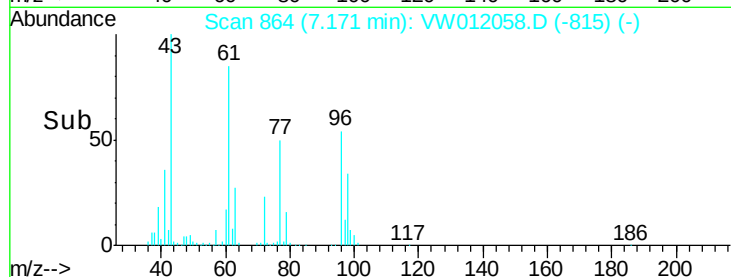
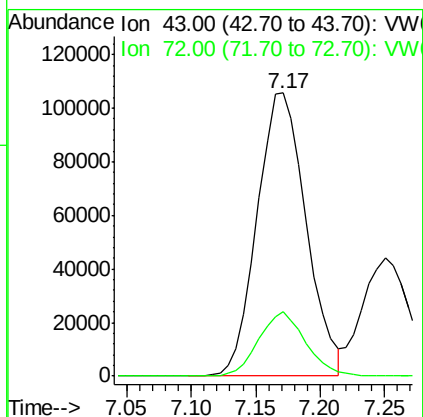
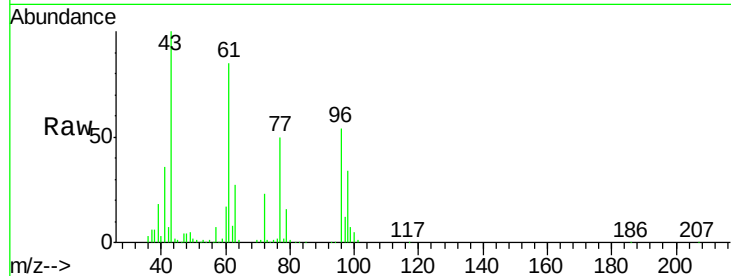
VSTDCCC050

Tot Ion: 43 Resp: 278548

Ion Ratio Lower Upper

43 100

72 22.8 16.6 24.8



#26

2,2-Dichloropropane

Concen: 47.511 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012058.D

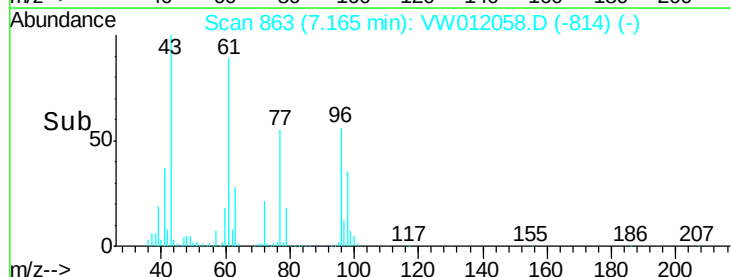
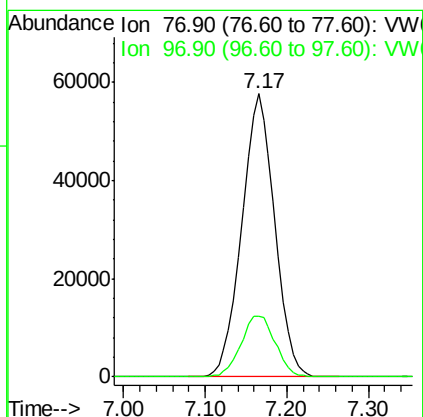
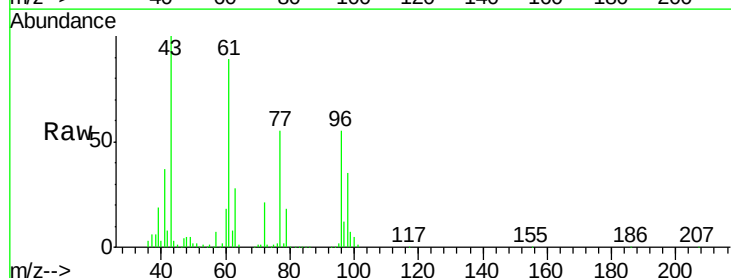
Acq: 21 Aug 2019 08:57

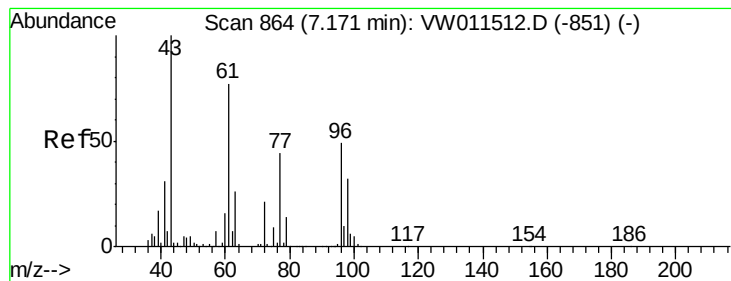
Tgt Ion: 77 Resp: 161710

Ion Ratio Lower Upper

77 100

97 22.5 10.8 32.4



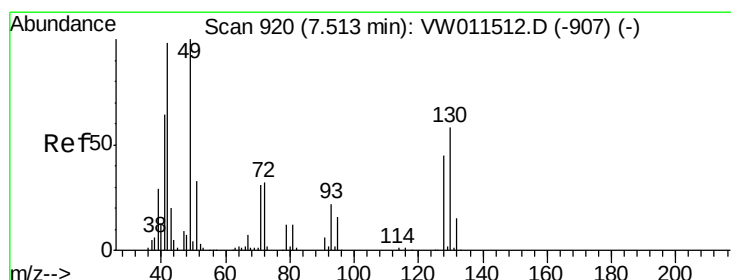
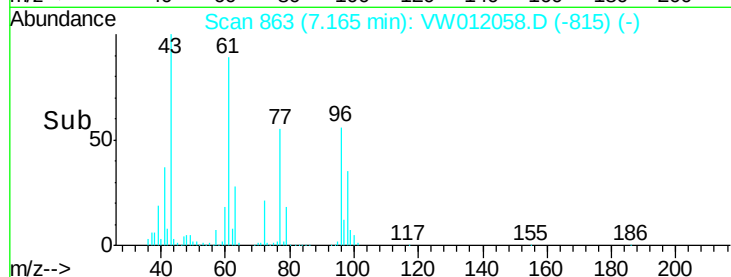
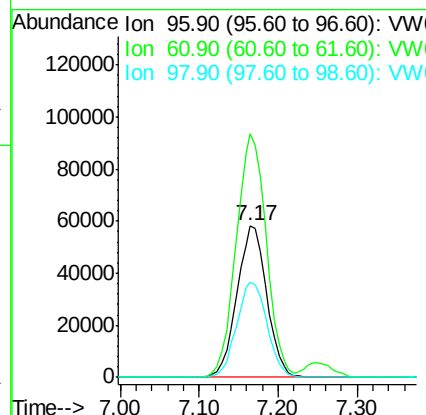
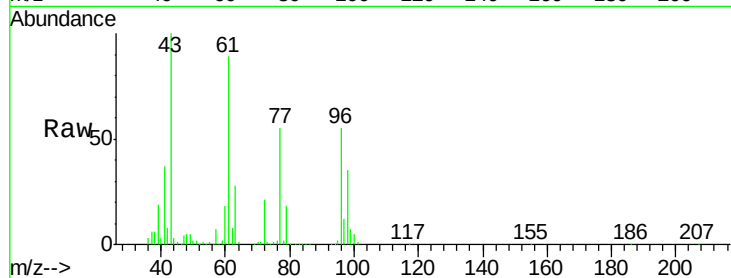


#27

cis-1,2-Dichloroethene  
 Concen: 49.889 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

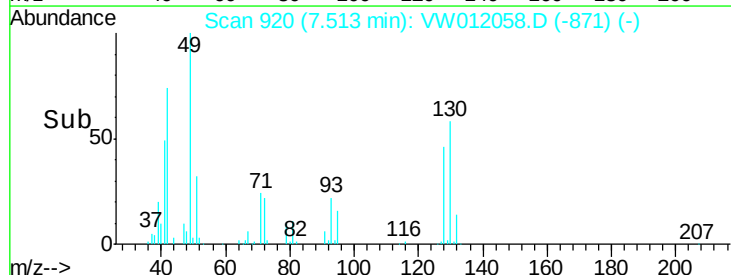
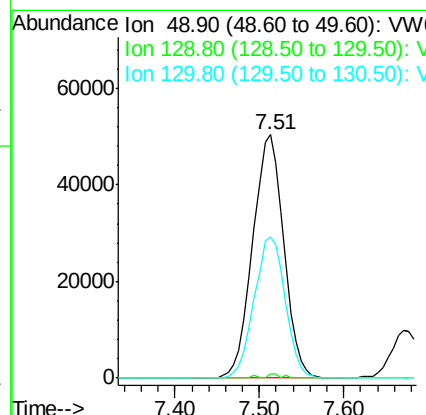
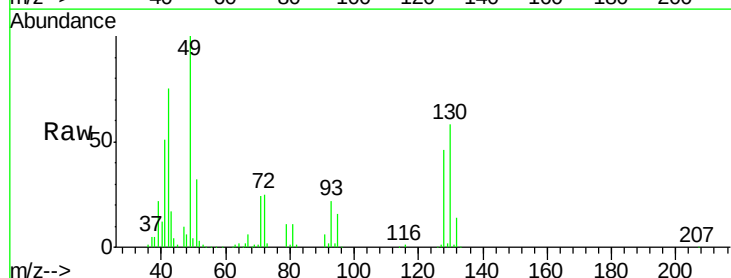
| Tot Ion | 96    | Resp  | 152549 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 162.9 | 0.0   | 328.4  |
| 98      | 64.0  | 0.0   | 128.8  |

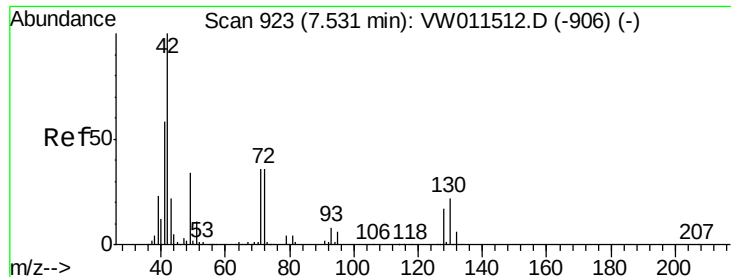


#28

Bromochloromethane  
 Concen: 51.325 ug/l  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

| Tgt Ion | 49    | Resp  | 126081 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 49      | 100   |       |        |
| 129     | 0.8   | 0.0   | 1.0    |
| 130     | 58.3  | 46.3  | 69.5   |

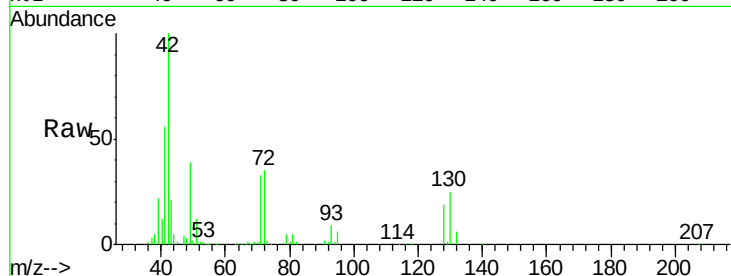




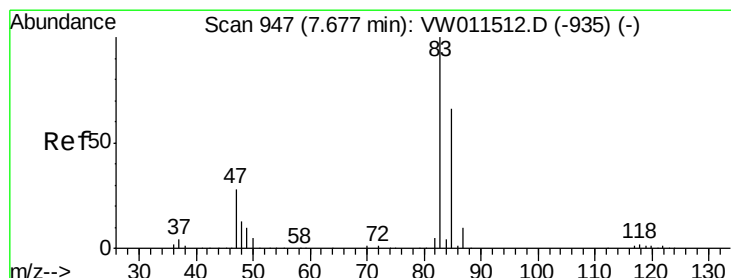
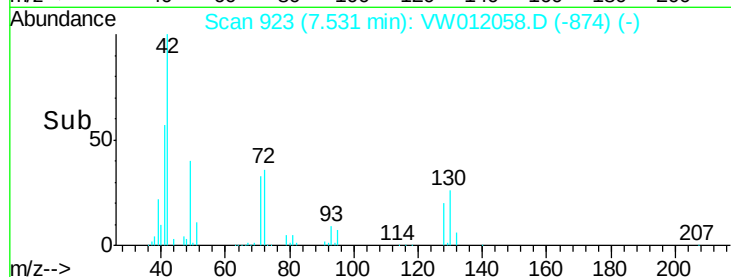
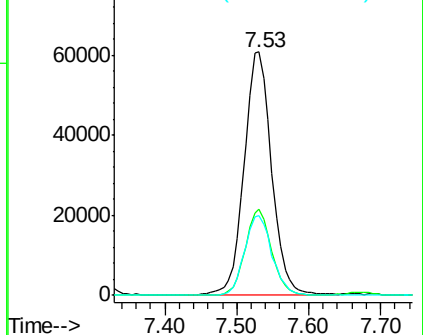
#29  
Tetrahydrofuran  
Concen: 237.689 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion: 42 Resp: 160684  
Ion Ratio Lower Upper  
42 100  
72 34.1 27.1 40.7  
71 33.0 26.2 39.4

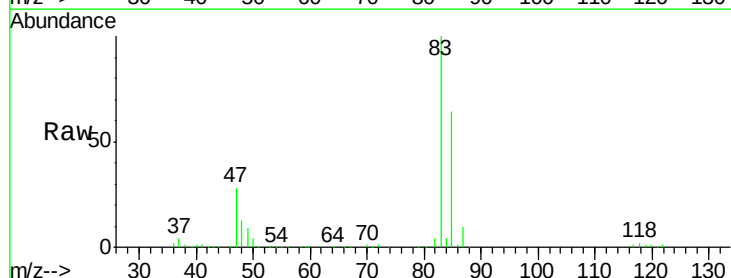


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

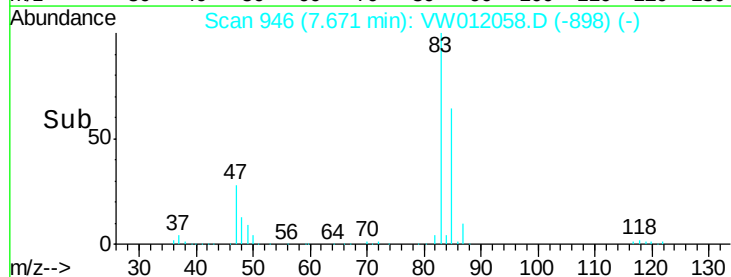
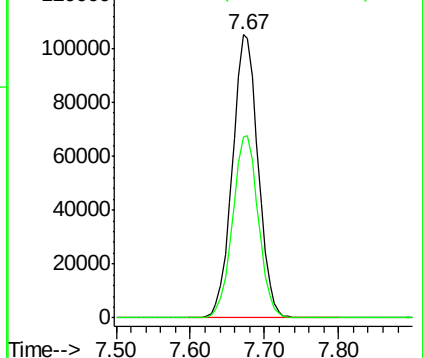


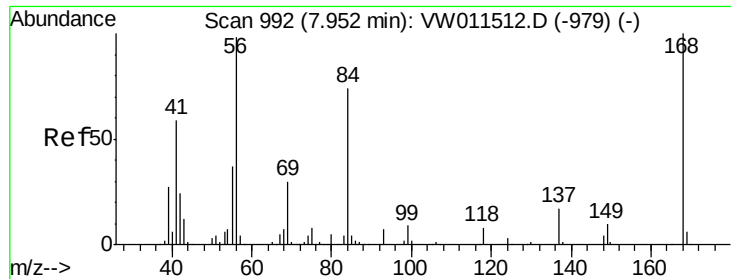
#30  
Chloroform  
Concen: 49.781 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 83 Resp: 254174  
Ion Ratio Lower Upper  
83 100  
85 63.8 52.5 78.7



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

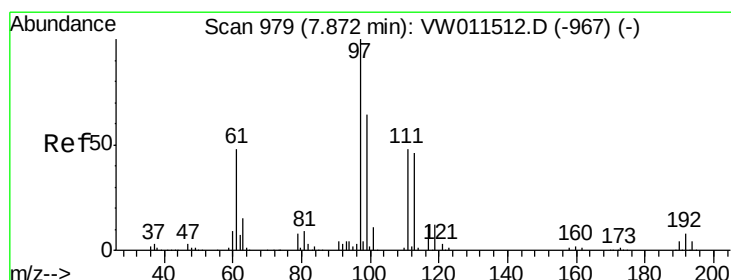
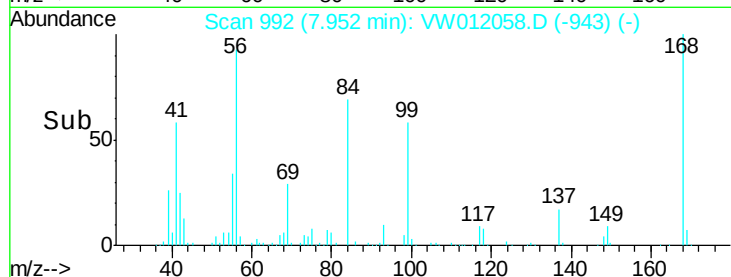
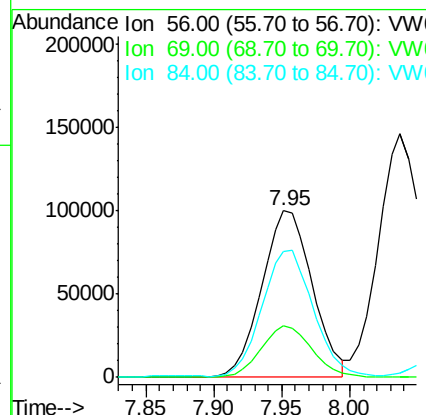
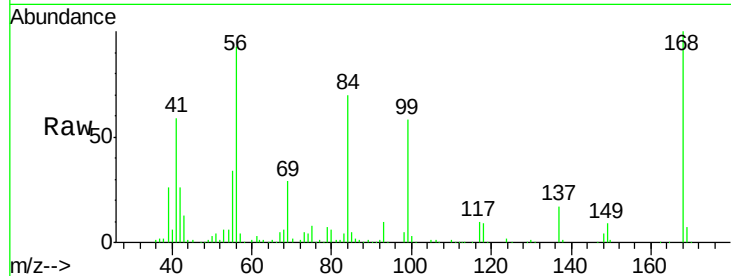




#31  
Cyclohexane  
Concen: 48.737 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

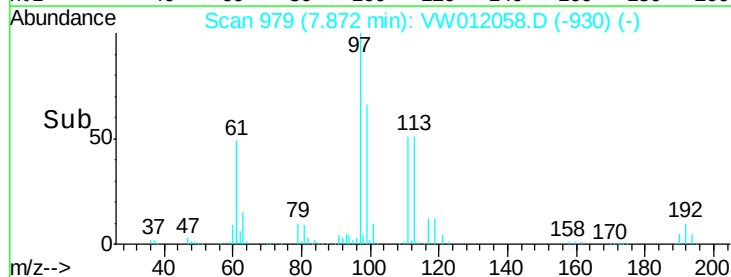
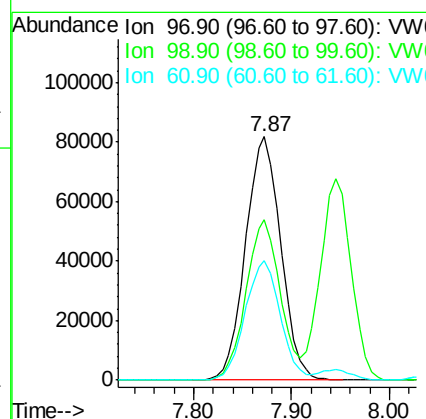
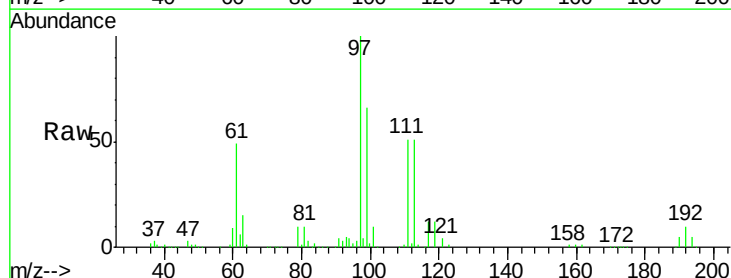
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

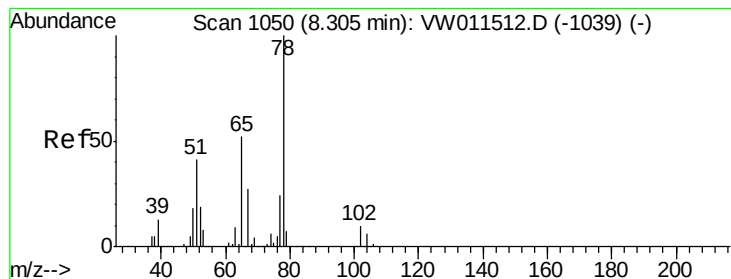
Tot Ion: 56 Resp: 258919  
Ion Ratio Lower Upper  
56 100  
69 30.7 24.3 36.5  
84 74.9 60.4 90.6



#32  
1,1,1-Trichloroethane  
Concen: 52.798 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 97 Resp: 205303  
Ion Ratio Lower Upper  
97 100  
99 64.1 51.0 76.6  
61 48.9 39.8 59.6





#33

1,2-Dichloroethane-d4

Concen: 51.942 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

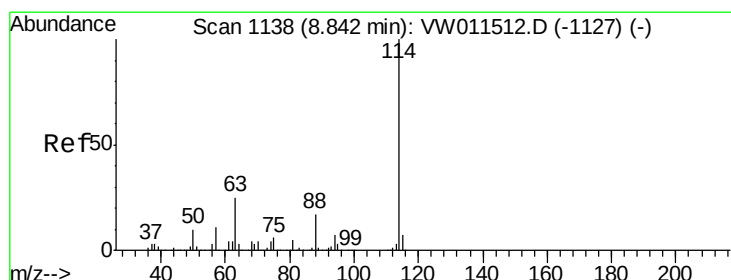
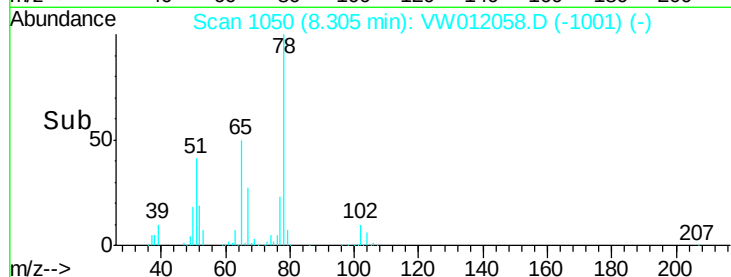
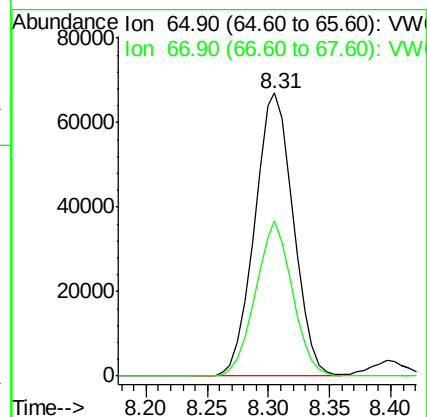
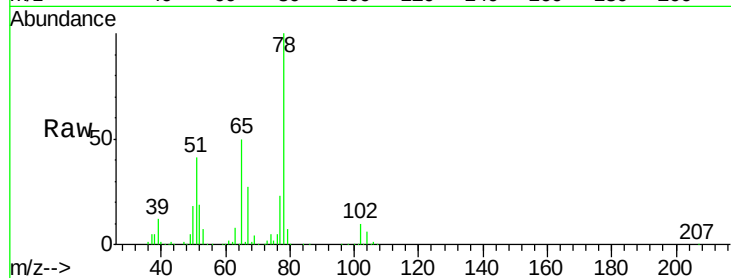
VSTDCCC050

Tot Ion: 65 Resp: 147584

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

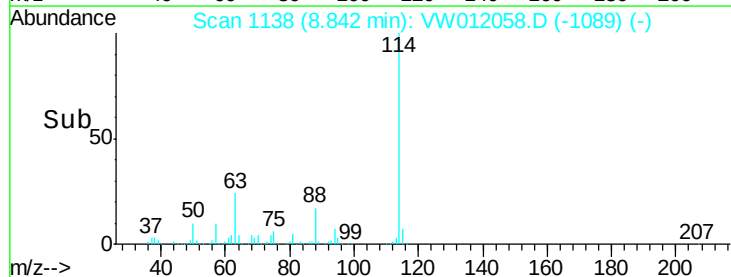
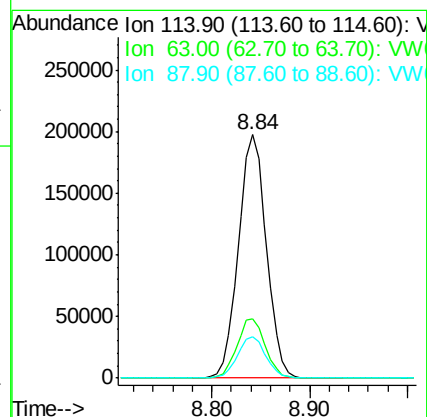
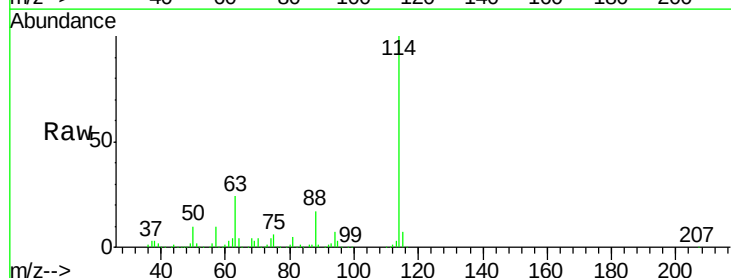
Tgt Ion: 114 Resp: 389817

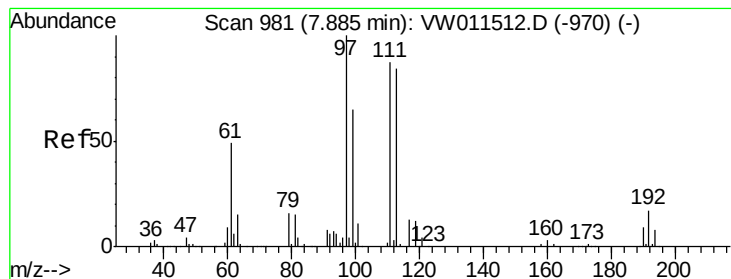
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.2

88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 55.925 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

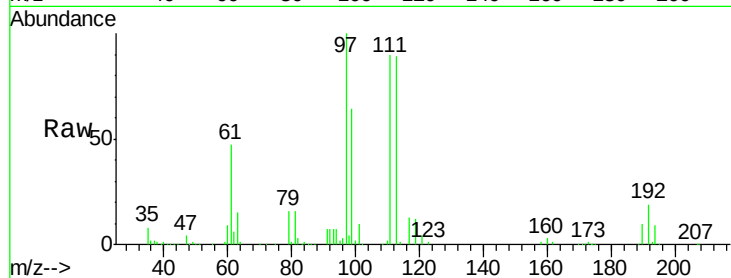
Tot Ion:113 Resp: 122304

Ion Ratio Lower Upper

113 100

111 103.0 82.7 124.1

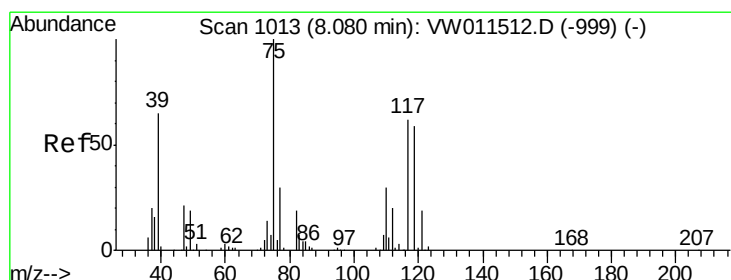
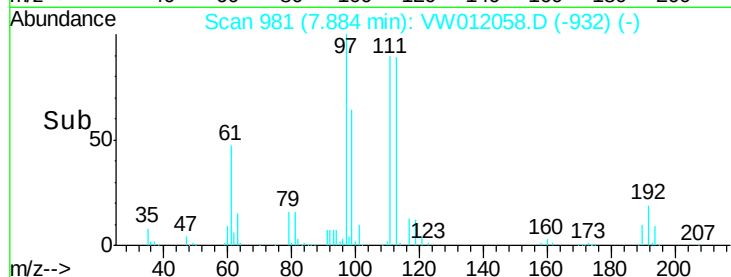
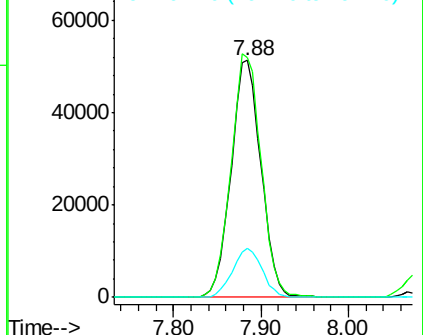
192 20.3 16.1 24.1



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: 53.328 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

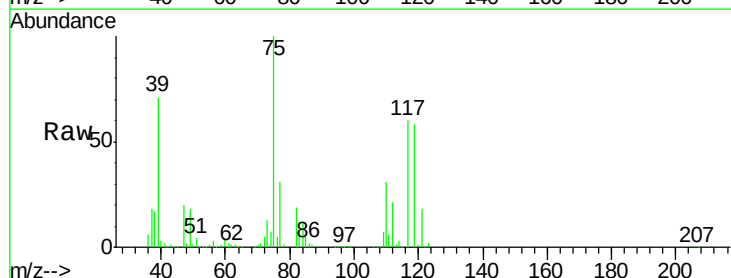
Tgt Ion: 75 Resp: 216160

Ion Ratio Lower Upper

75 100

110 31.6 15.6 46.8

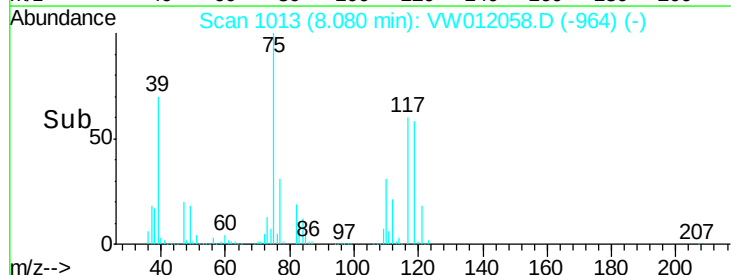
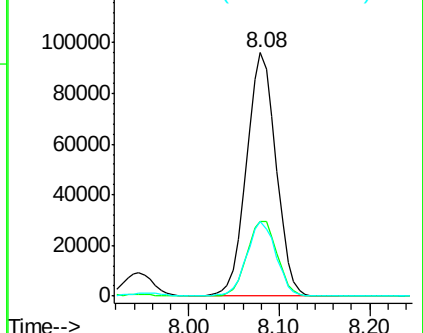
77 30.8 24.3 36.5

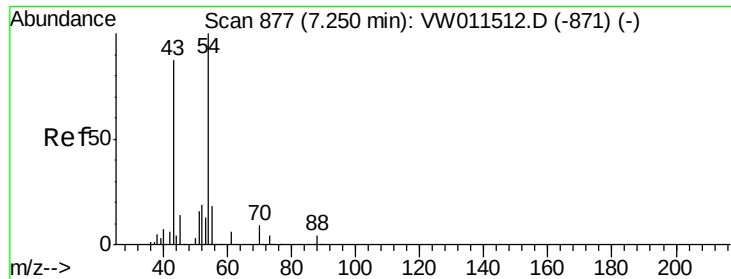


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

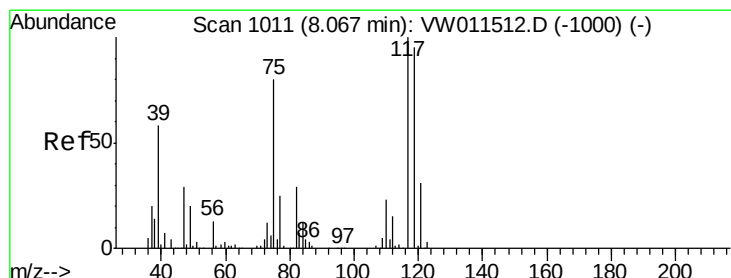
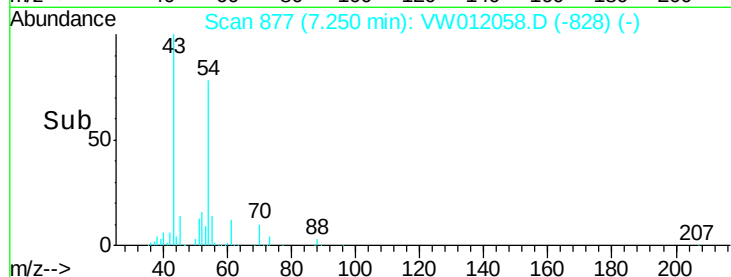
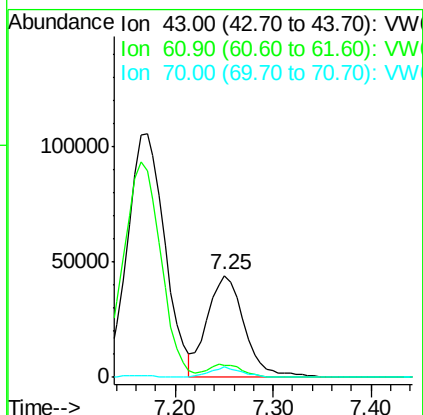
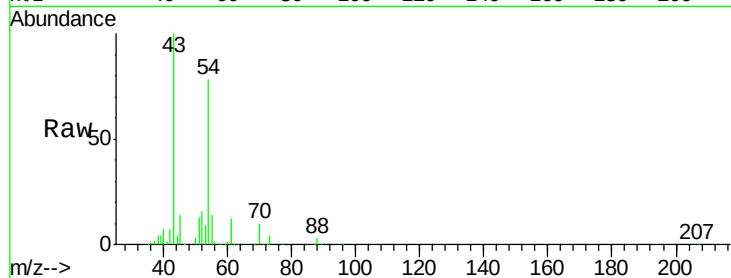




#37  
Ethyl Acetate  
Concen: 49.171 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

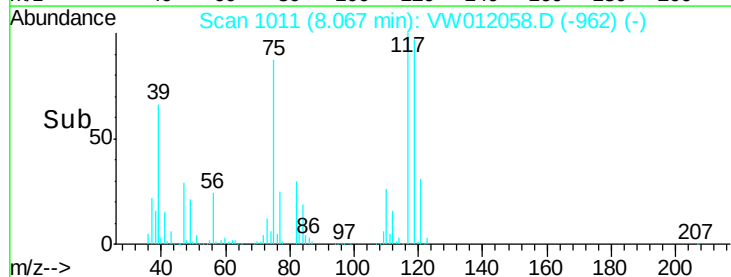
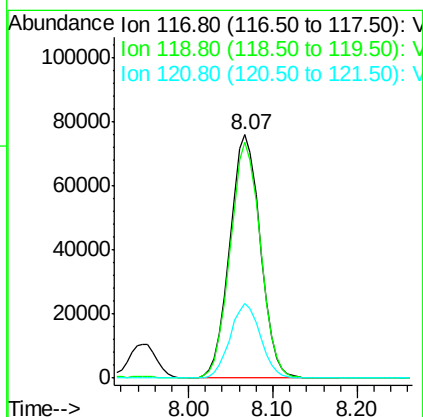
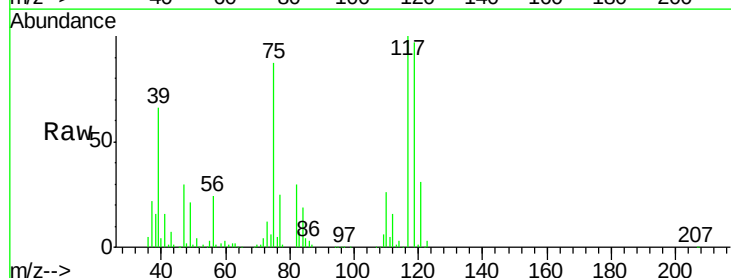
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

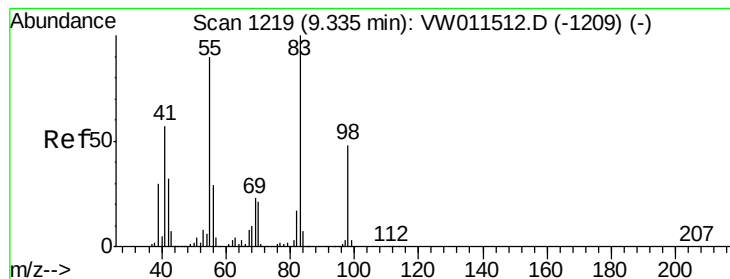
Tot Ion: 43 Resp: 114668  
Ion Ratio Lower Upper  
43 100  
61 12.3 8.8 13.2  
70 8.8 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 53.705 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 117 Resp: 186355  
Ion Ratio Lower Upper  
117 100  
119 96.7 75.8 113.6  
121 30.6 24.7 37.1





#39

Methylvlcyclohexane

Concen: 54.079 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

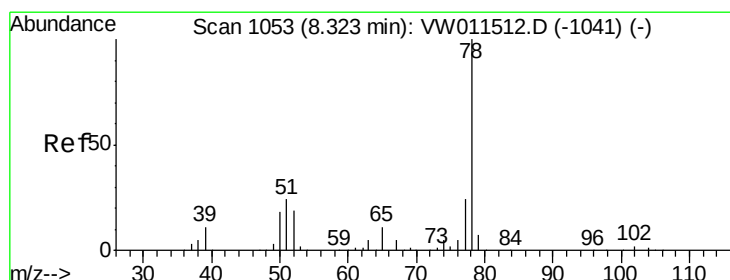
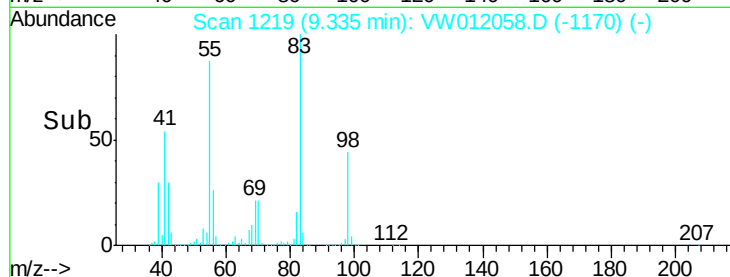
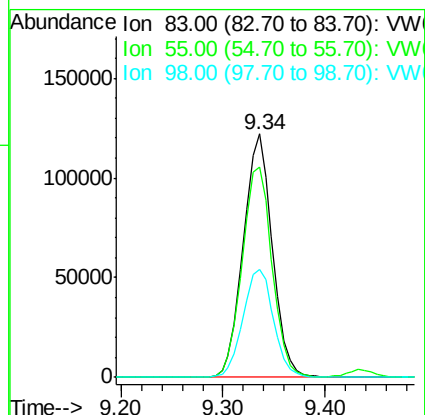
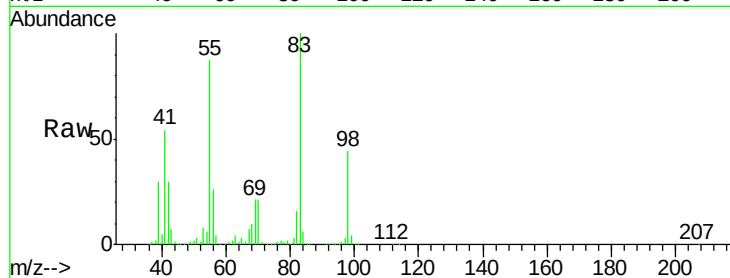
Tot Ion: 83 Resp: 241368

Ion Ratio Lower Upper

83 100

55 86.5 72.1 108.1

98 44.4 38.6 57.8



#40

Benzene

Concen: 51.329 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW012058.D

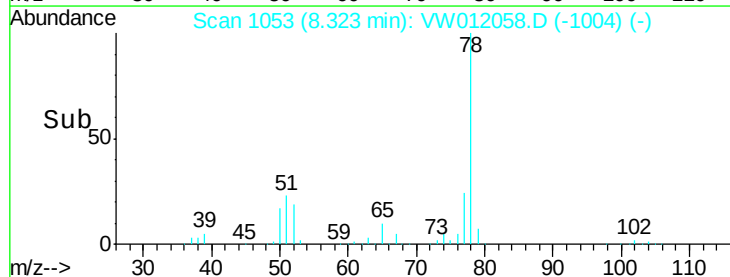
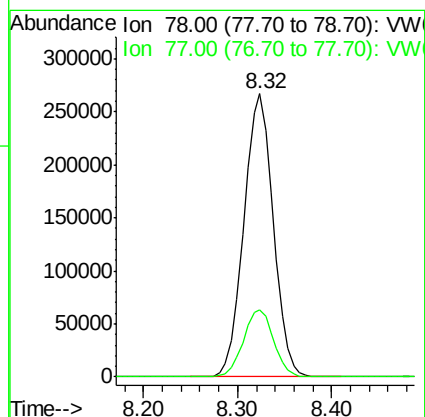
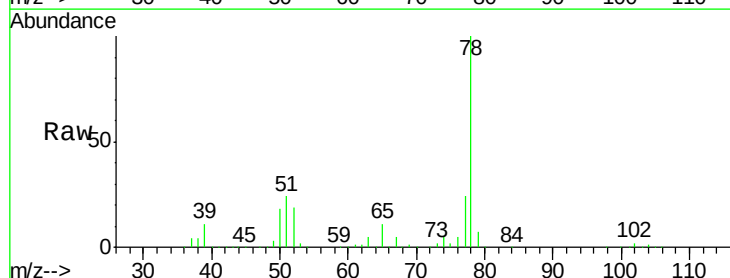
Acq: 21 Aug 2019 08:57

Tgt Ion: 78 Resp: 582778

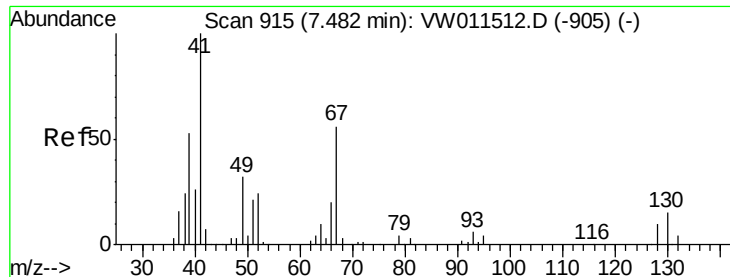
Ion Ratio Lower Upper

78 100

77 23.9 19.4 29.0



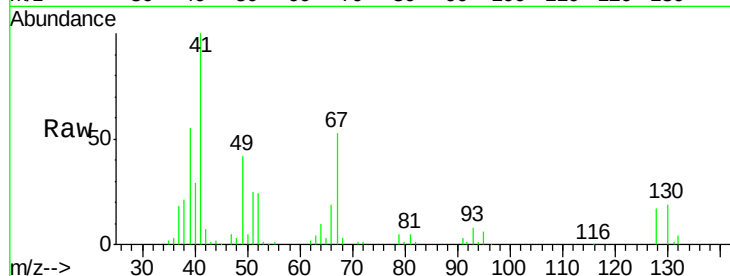




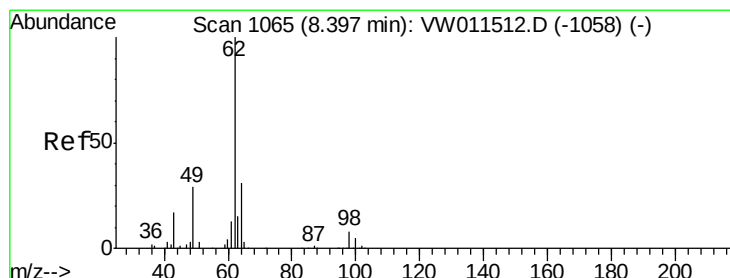
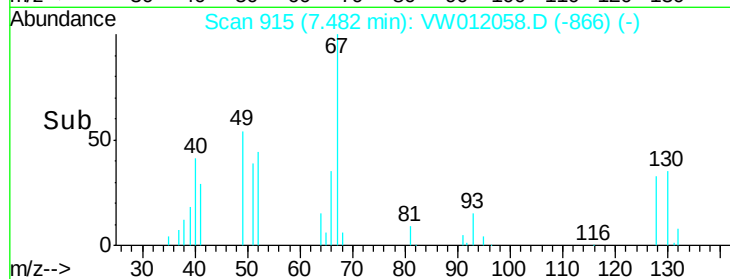
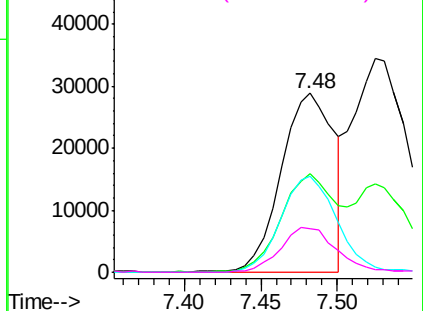
#41  
Methacrylonitrile  
Concen: 49.768 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 69377 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.0  | 43.0  | 64.4  |
| 67       | 56.9  | 47.5  | 71.3  |
| 52       | 26.7  | 21.0  | 31.6  |

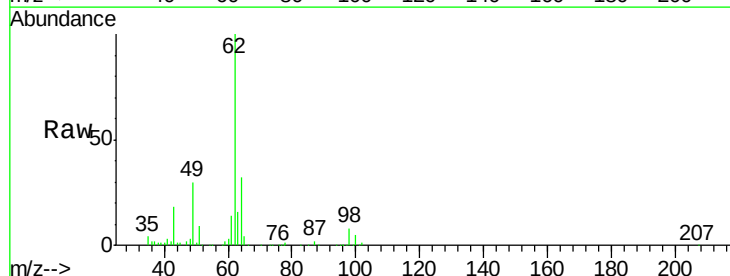


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

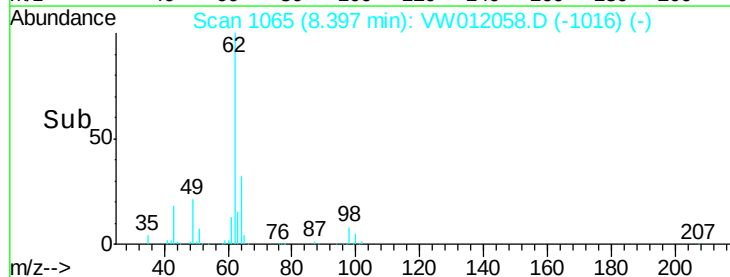
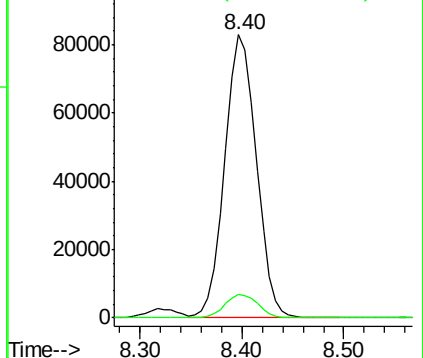


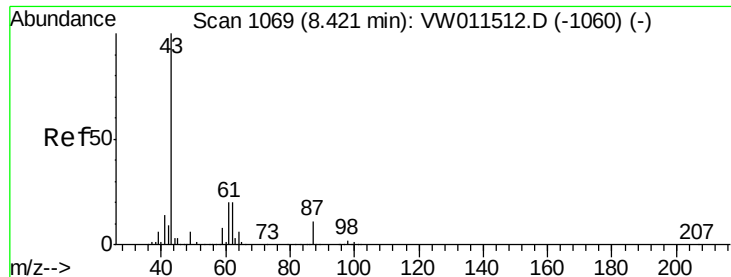
#42  
1,2-Dichloroethane  
Concen: 50.066 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 177970 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.8   | 0.0   | 16.8   |



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





#43

Isopropyl Acetate

Concen: 51.388 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

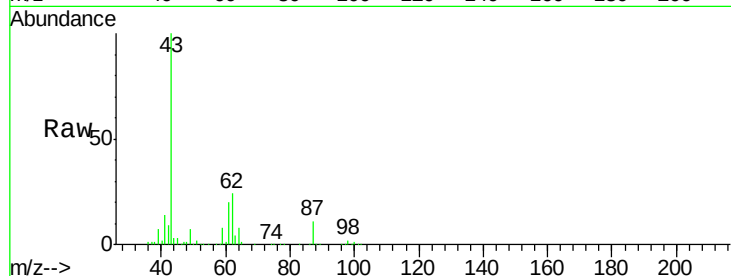
Tot Ion: 43 Resp: 220391

Ion Ratio Lower Upper

43 100

61 26.3 21.5 32.3

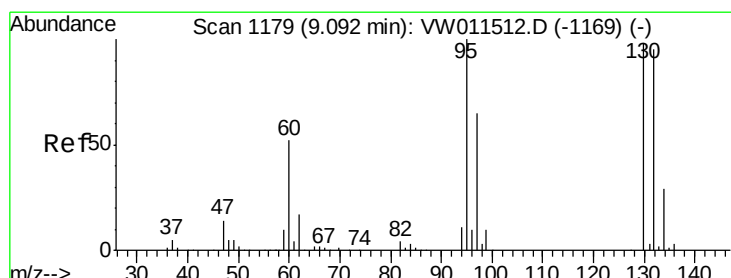
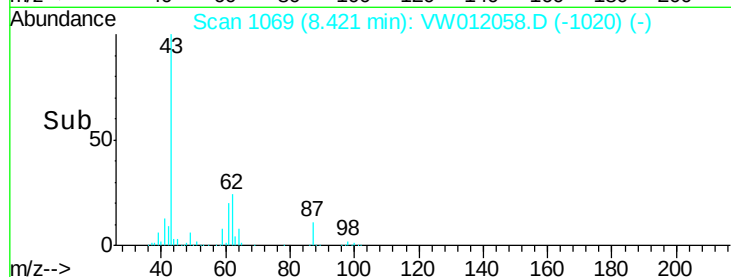
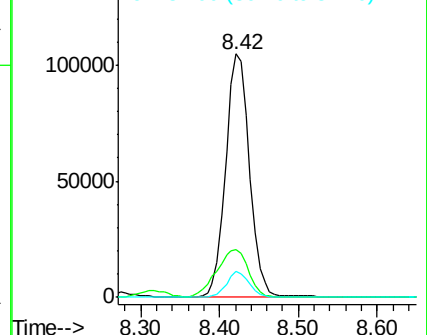
87 10.1 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 52.275 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012058.D

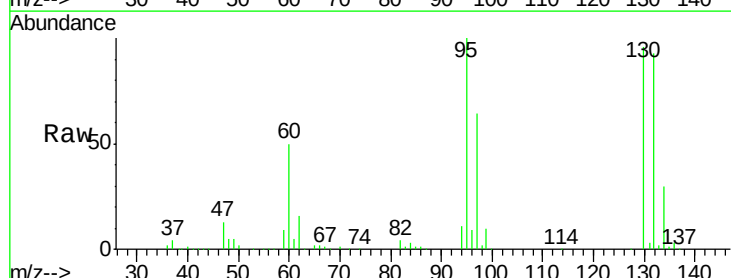
Acq: 21 Aug 2019 08:57

Tgt Ion: 130 Resp: 142652

Ion Ratio Lower Upper

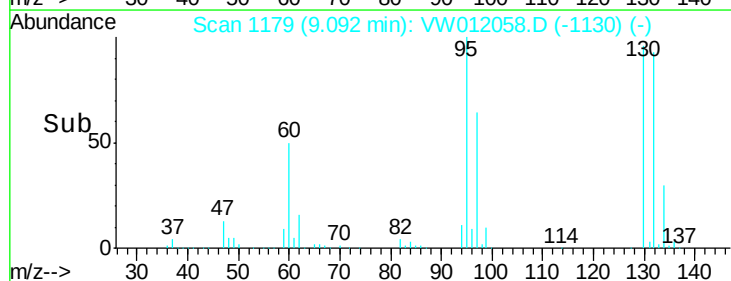
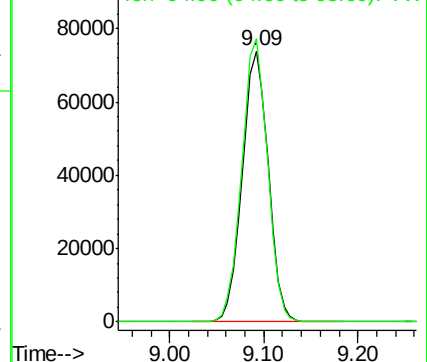
130 100

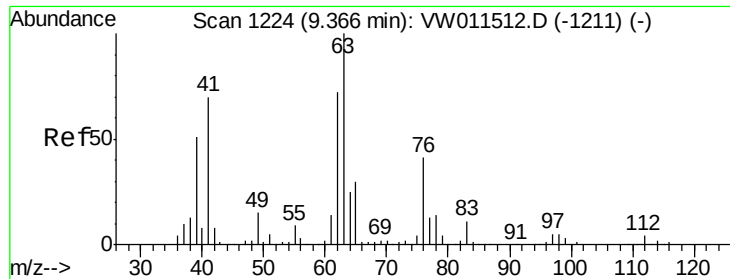
95 104.6 0.0 204.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

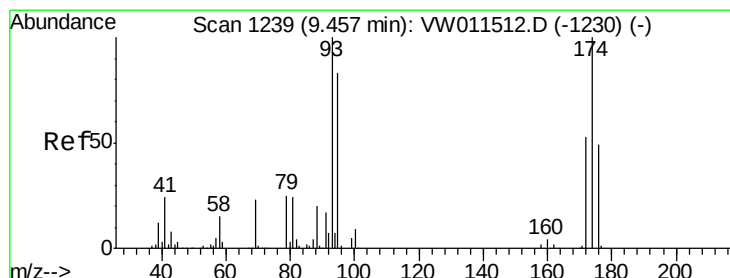
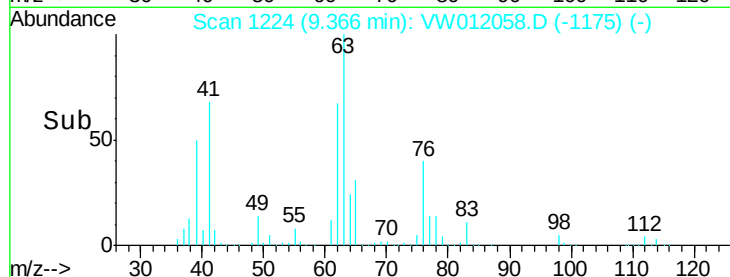
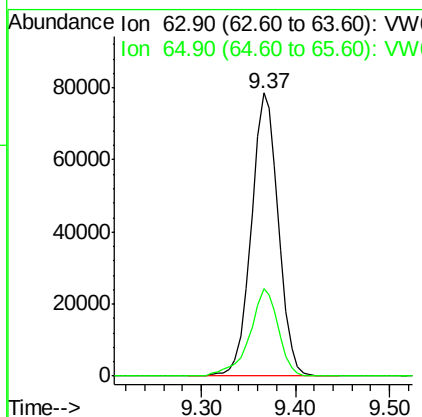
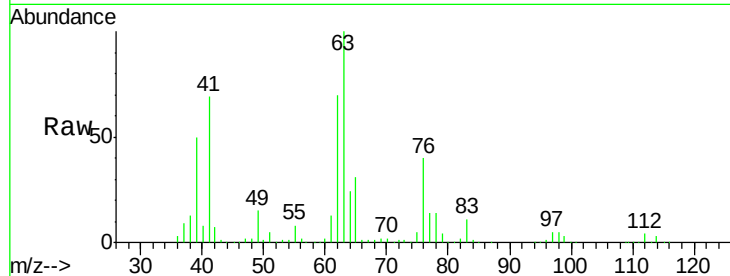




#45  
 1,2-Dichloropropane  
 Concen: 51.921 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

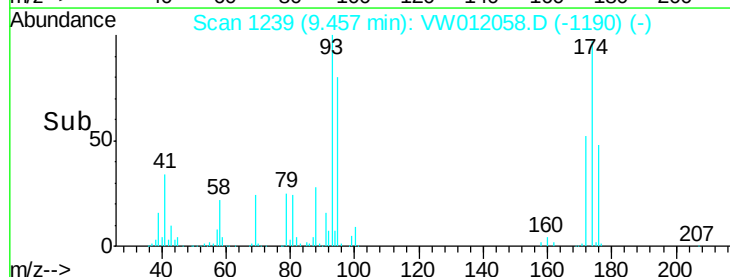
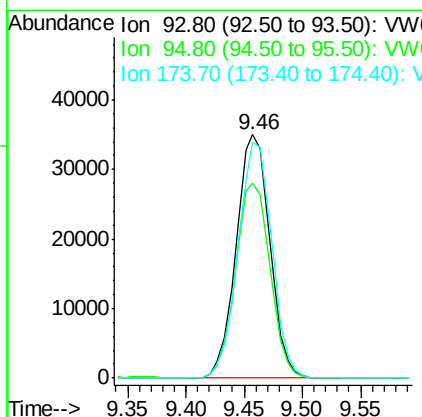
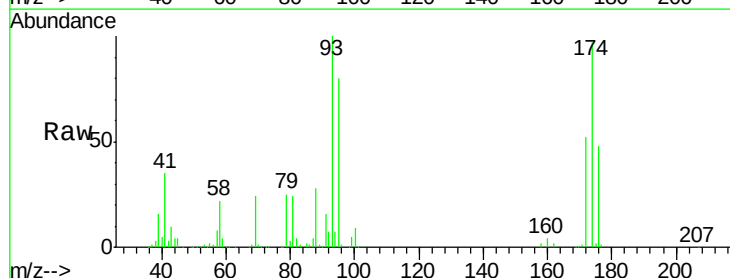
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

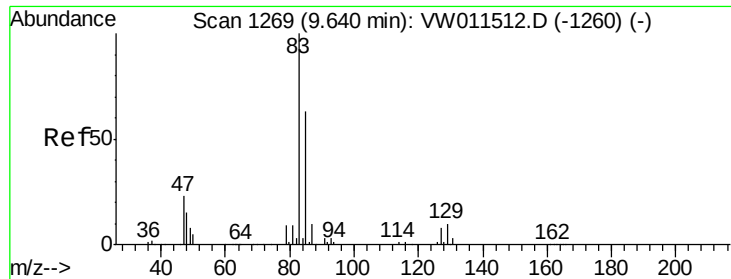
Tot Ion: 63 Resp: 157729  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 24.2 36.4



#46  
 Dibromomethane  
 Concen: 50.996 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion: 93 Resp: 70709  
 Ion Ratio Lower Upper  
 93 100  
 95 82.1 66.2 99.2  
 174 97.6 78.2 117.4





#47

Bromodichloromethane

Concen: 51.448 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

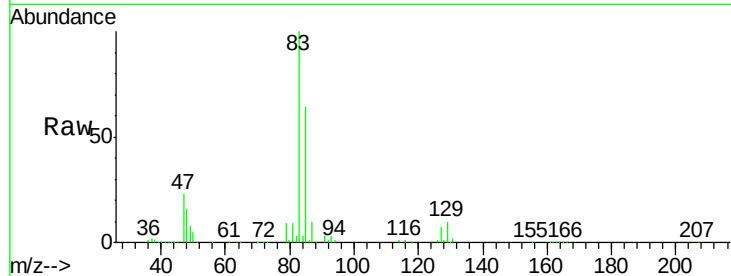
Tot Ion: 83 Resp: 187121

Ion Ratio Lower Upper

83 100

85 63.9 50.5 75.7

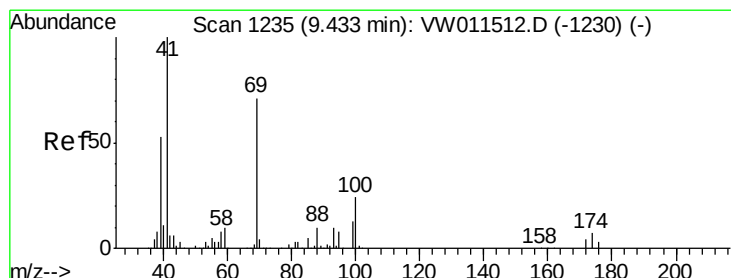
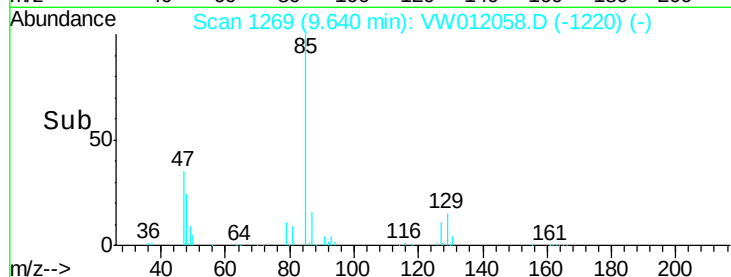
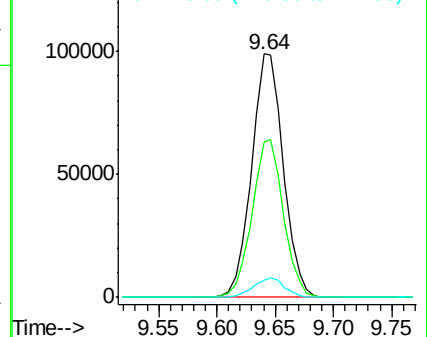
127 7.2 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 51.032 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

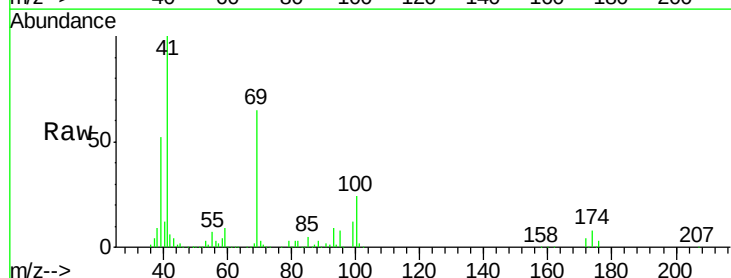
Tgt Ion: 41 Resp: 105134

Ion Ratio Lower Upper

41 100

69 70.0 57.1 85.7

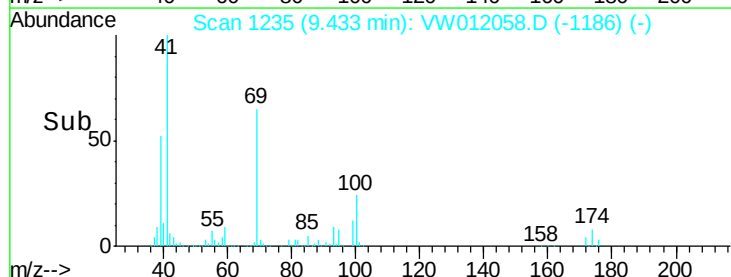
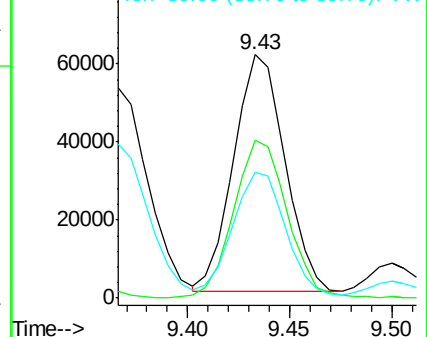
39 53.2 45.4 68.2

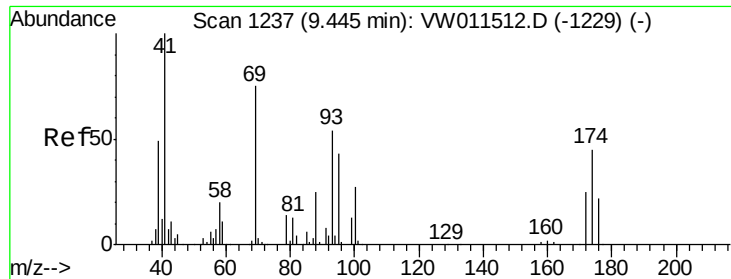


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

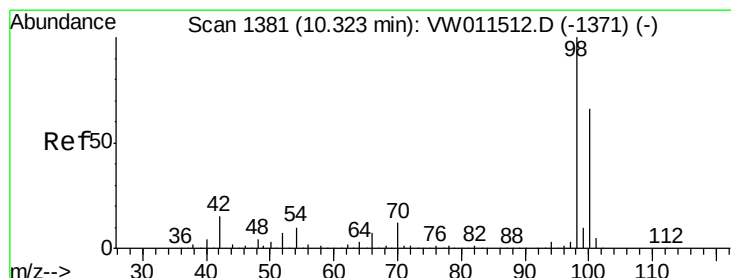
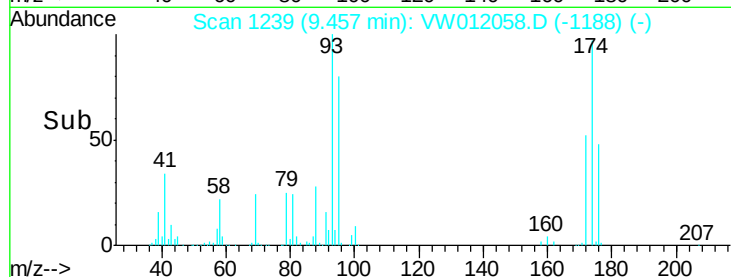
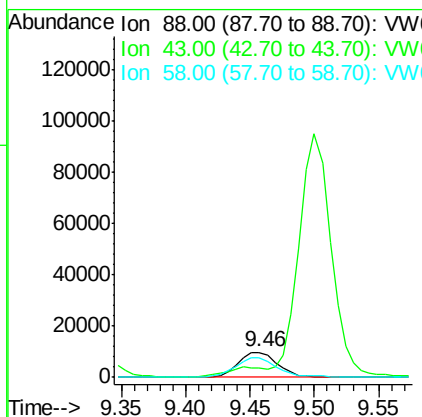
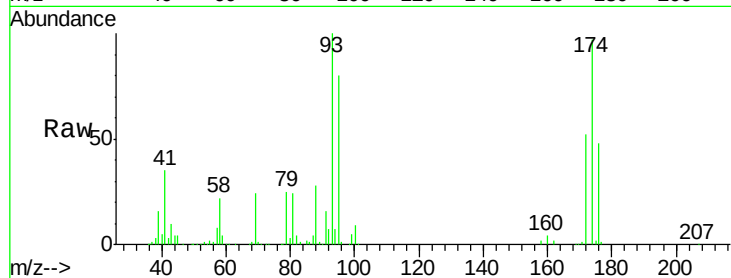




#49  
1,4-Dioxane  
Concen: 1036.194 ug/l  
RT: 9.46 min Scan# 1239  
Delta R.T. 0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

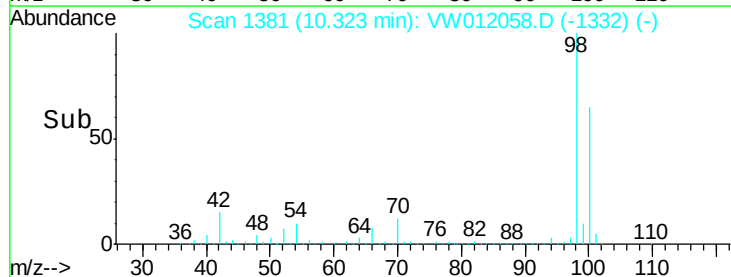
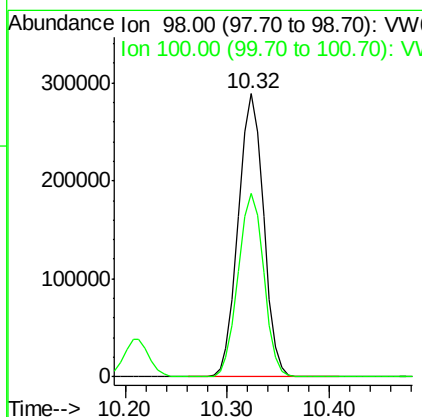
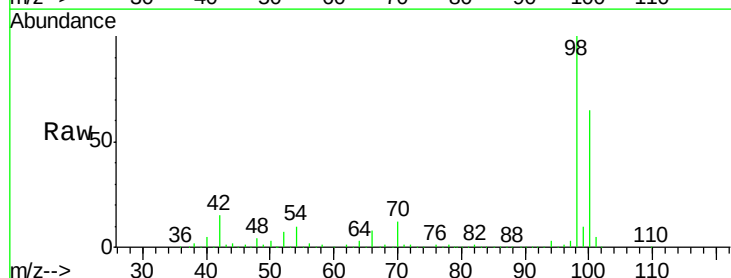
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

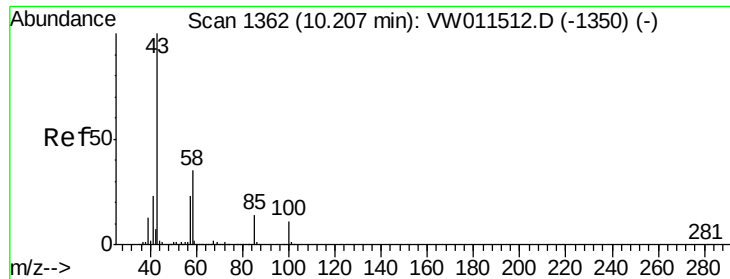
Tot Ion: 88 Resp: 20803  
Ion Ratio Lower Upper  
88 100  
43 38.1 34.0 51.0  
58 85.8 69.7 104.5



#50  
Toluene-d8  
Concen: 55.500 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 98 Resp: 496945  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.7 79.1

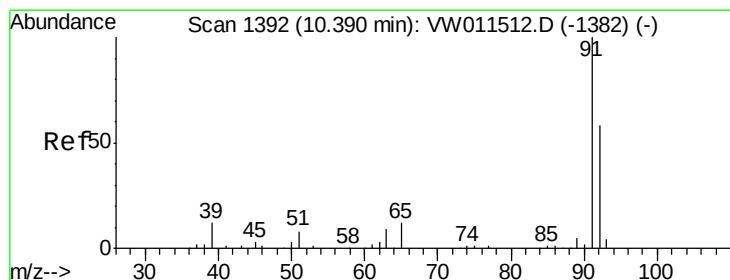
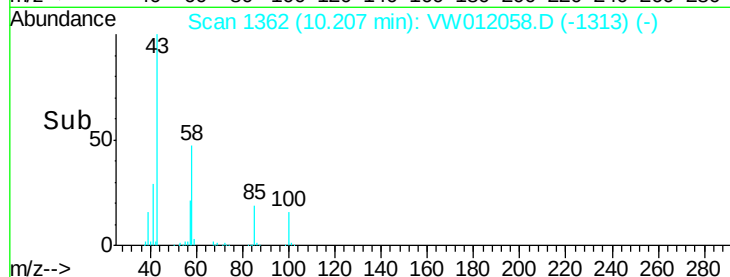
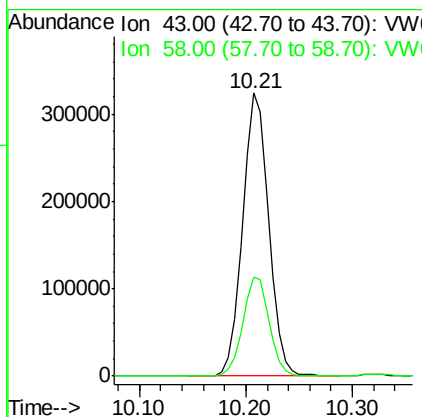
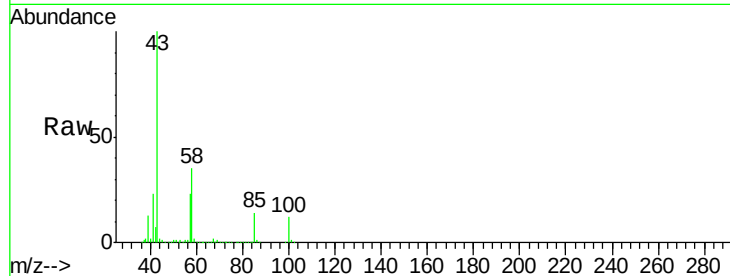




#51  
 4-Methyl-2-Pentanone  
 Concen: 250.264 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

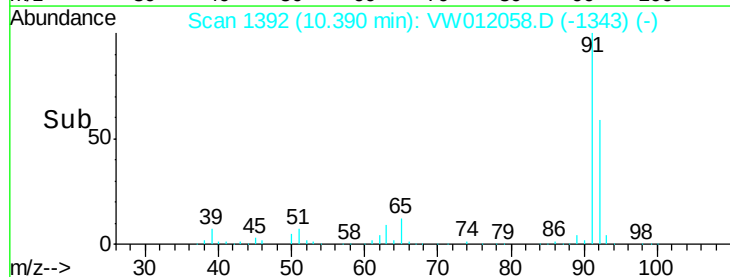
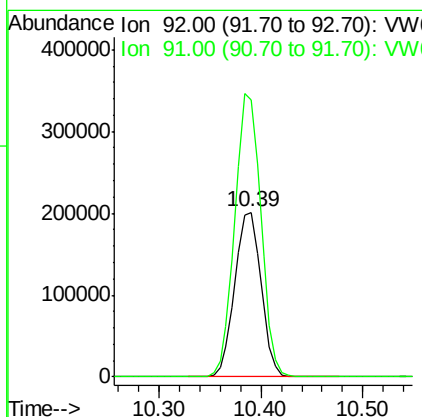
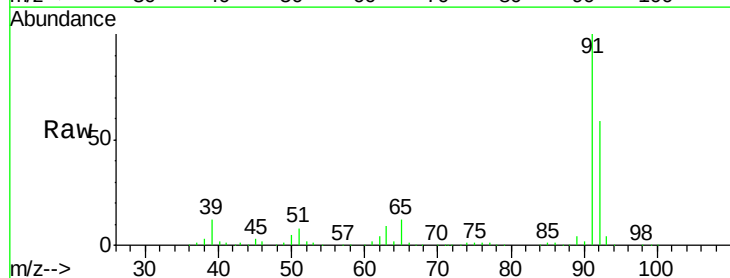
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

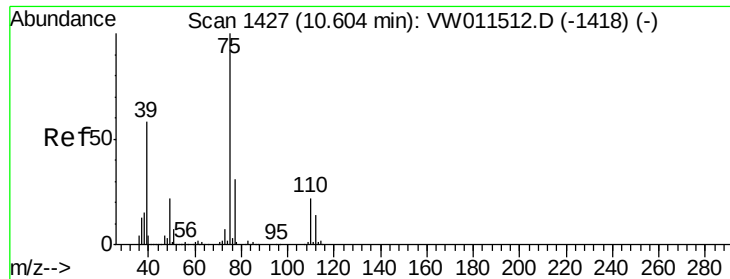
Tot Ion: 43 Resp: 558288  
 Ion Ratio Lower Upper  
 43 100  
 58 35.4 28.2 42.2



#52  
 Toluene  
 Concen: 52.294 ug/l  
 RT: 10.39 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion: 92 Resp: 358553  
 Ion Ratio Lower Upper  
 92 100  
 91 170.7 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 51.800 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

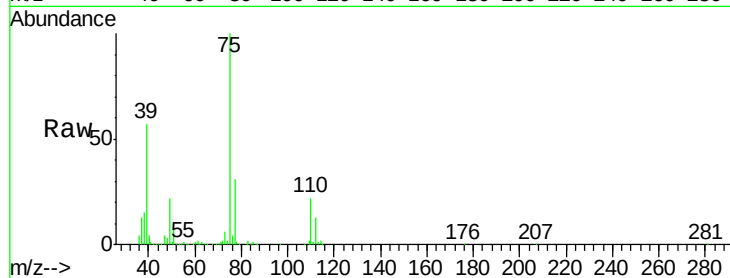
VSTDCCC050

Tot Ion: 75 Resp: 196806

Ion Ratio Lower Upper

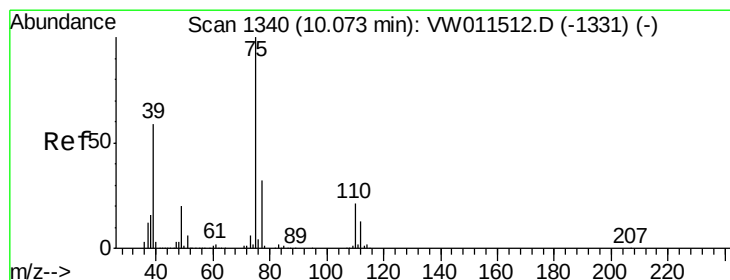
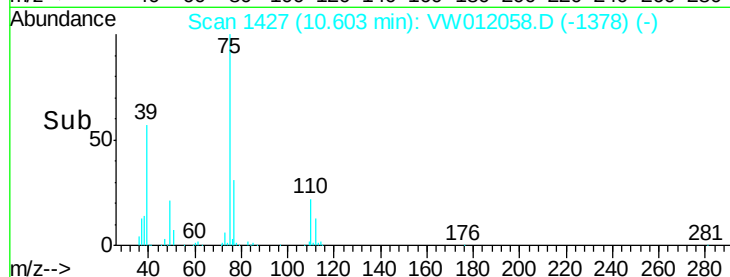
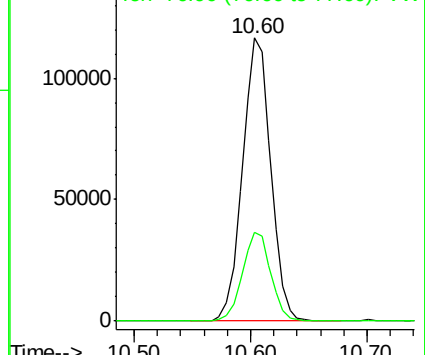
75 100

77 31.0 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 52.091 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

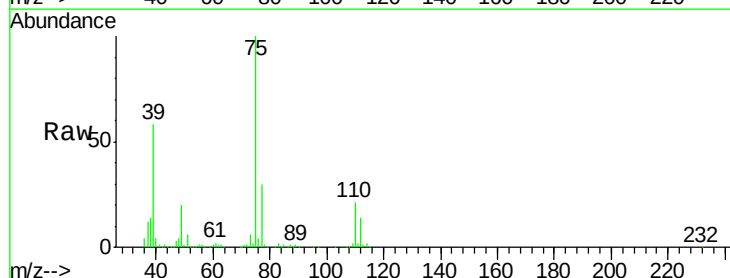
Tgt Ion: 75 Resp: 235316

Ion Ratio Lower Upper

75 100

77 30.5 25.6 38.4

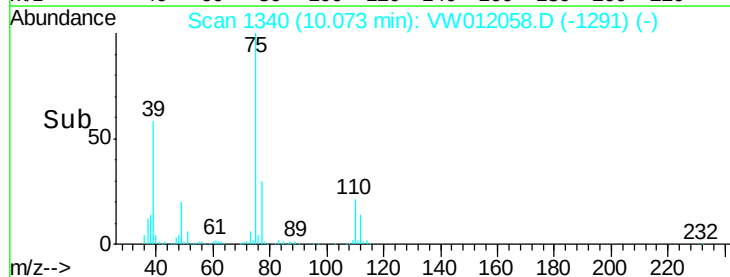
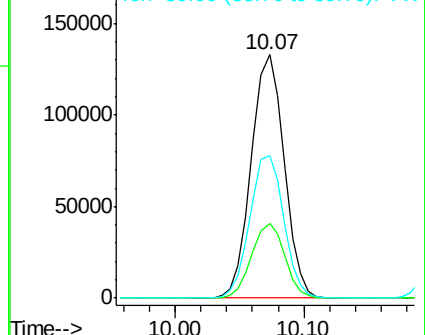
39 58.2 47.0 70.4

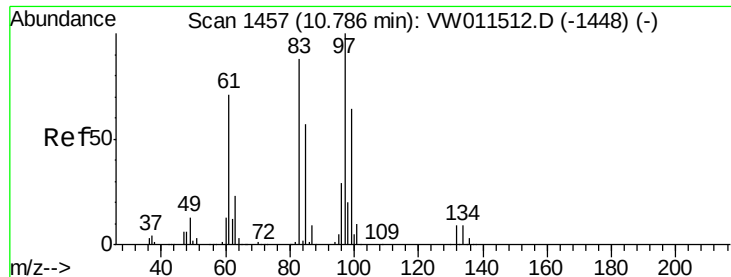


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

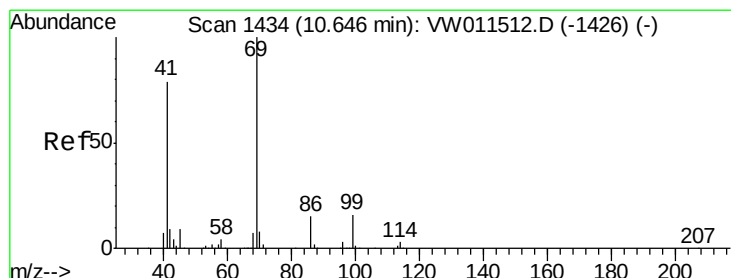
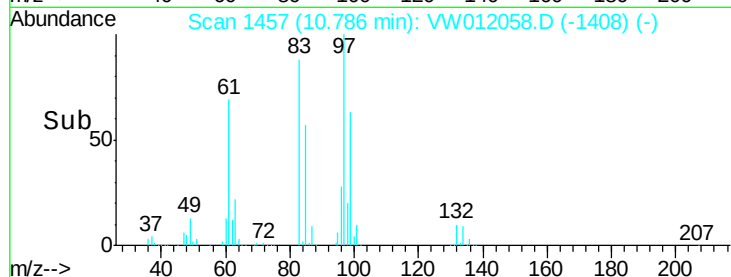
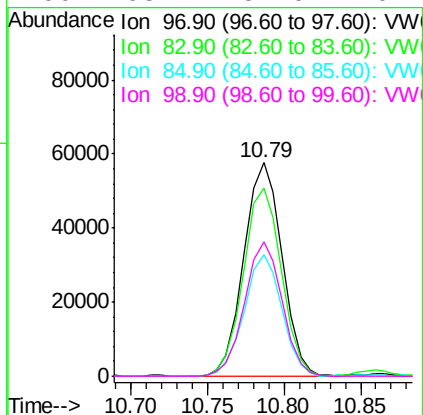
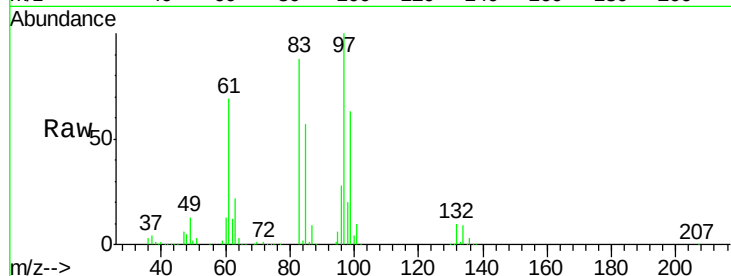




#55  
 1,1,2-Trichloroethane  
 Concen: 51.072 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

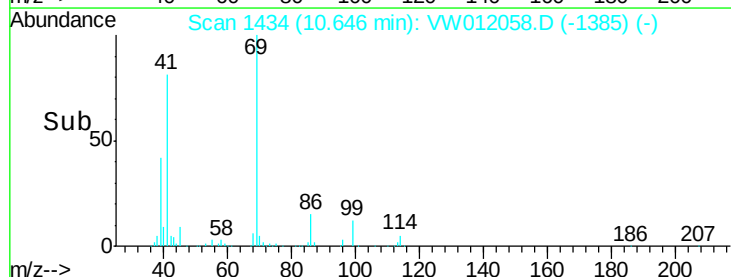
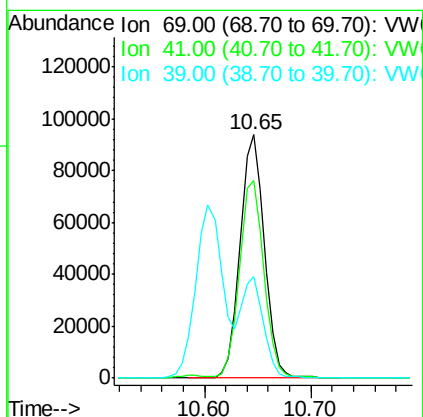
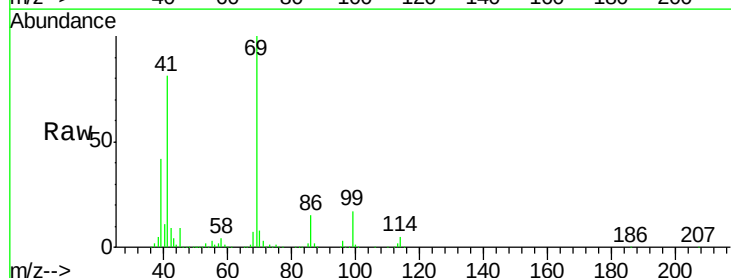
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 100474 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 88.1  | 70.5  | 105.7  |
| 85       | 56.7  | 45.8  | 68.6   |
| 99       | 63.1  | 51.0  | 76.4   |

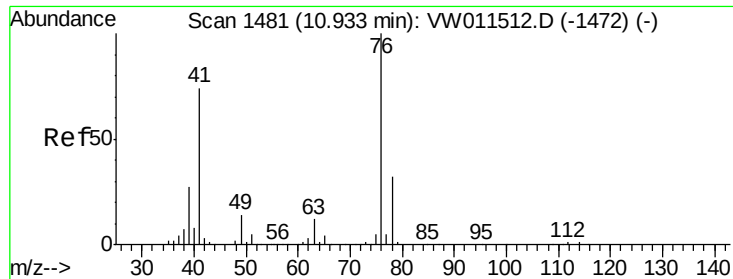


#56  
 Ethyl methacrylate  
 Concen: 52.315 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 150605 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 81.6  | 66.6  | 99.8   |
| 39       | 37.7  | 30.3  | 45.5   |



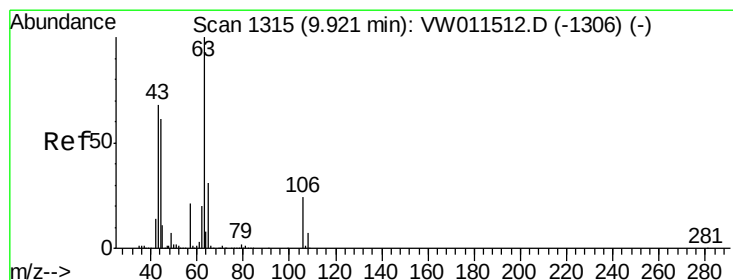
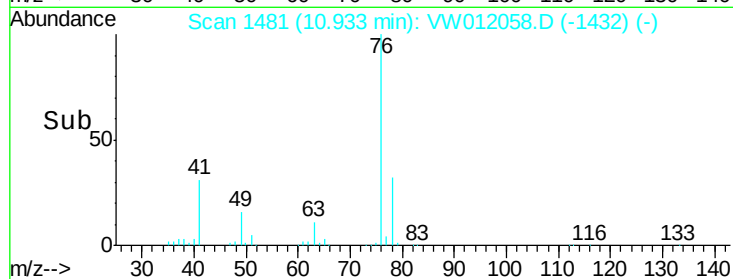
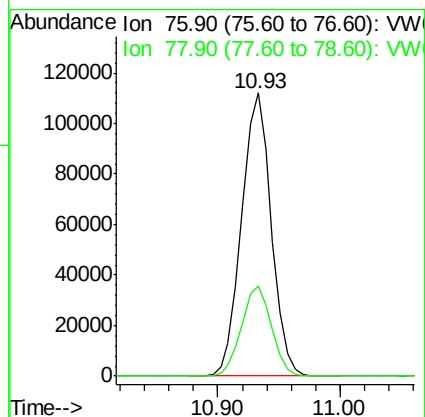
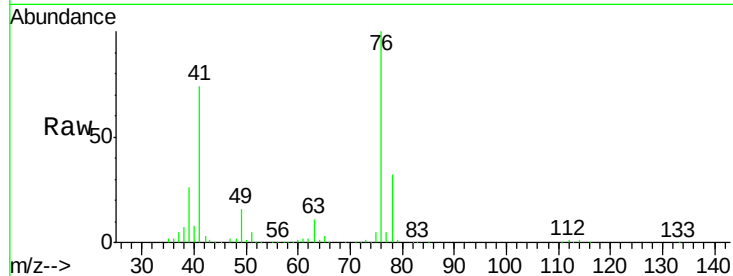




#57  
 1,3-Dichloropropane  
 Concen: 50.693 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

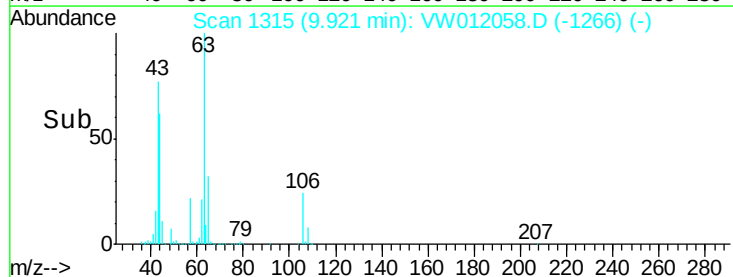
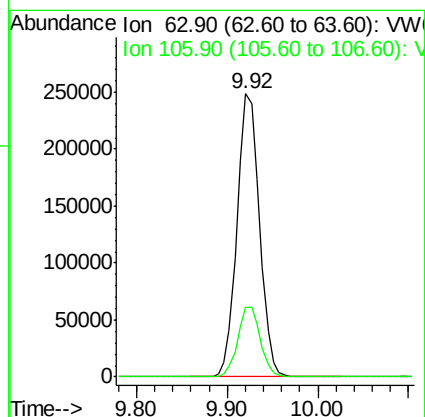
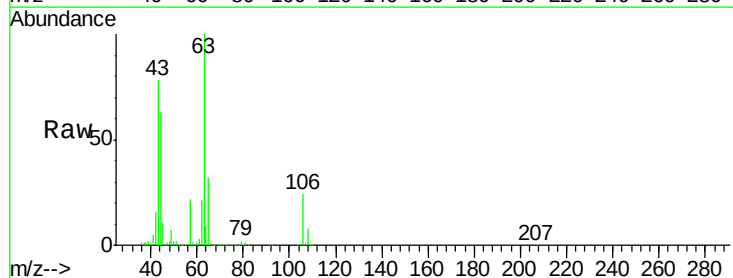
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

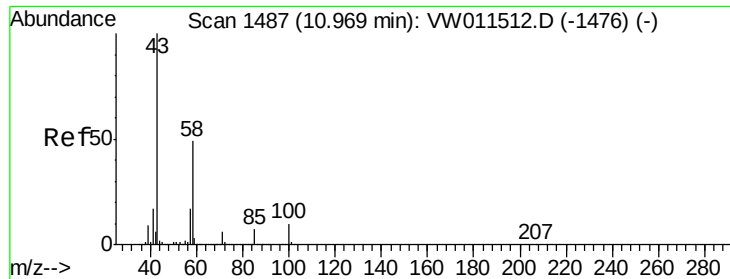
Tot Ion: 76 Resp: 188677  
 Ion Ratio Lower Upper  
 76 100  
 78 32.2 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 327.222 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion: 63 Resp: 427708  
 Ion Ratio Lower Upper  
 63 100  
 106 24.7 19.7 29.5

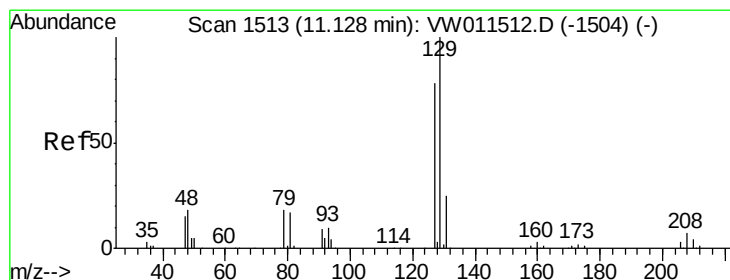
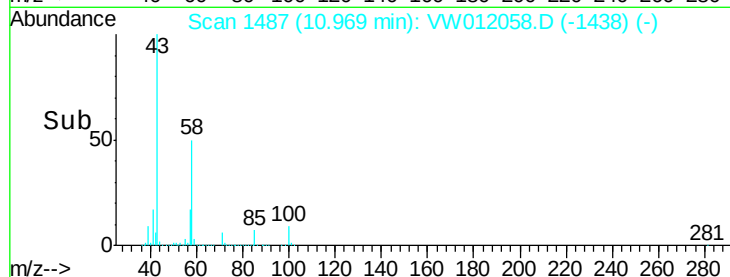
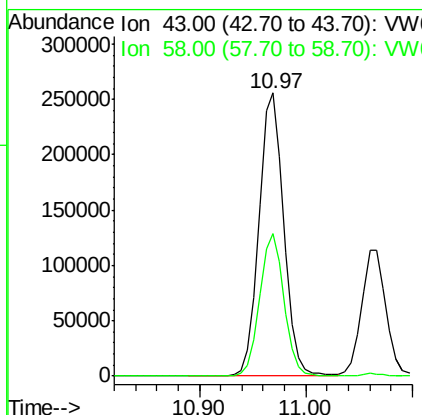
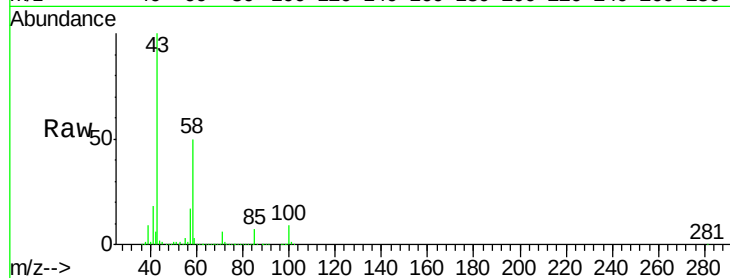




#59  
2-Hexanone  
Concen: 265.117 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

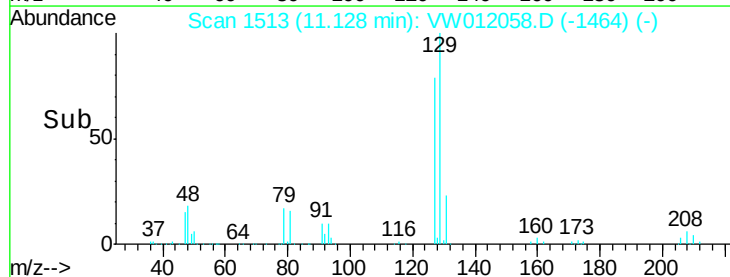
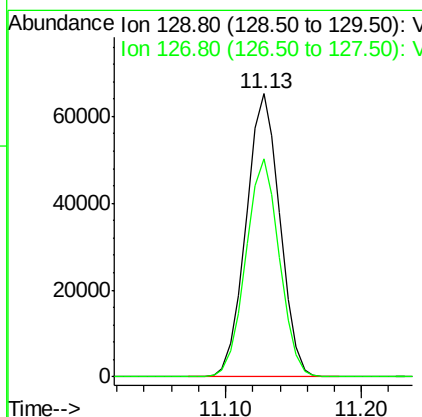
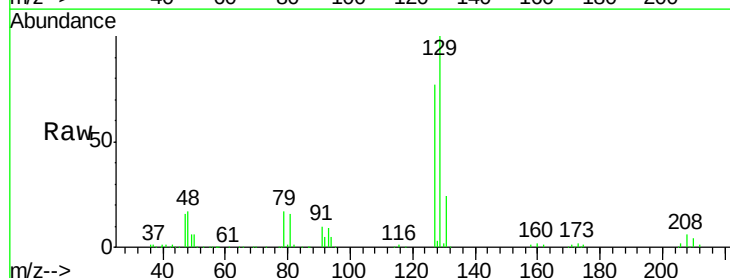
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

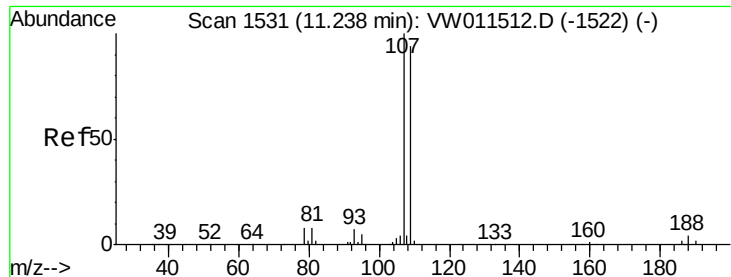
Tot Ion: 43 Resp: 417582  
Ion Ratio Lower Upper  
43 100  
58 49.3 24.3 72.9



#60  
Dibromochloromethane  
Concen: 52.028 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 129 Resp: 113616  
Ion Ratio Lower Upper  
129 100  
127 76.3 38.9 116.7





#61

1,2-Dibromoethane

Concen: 50.686 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

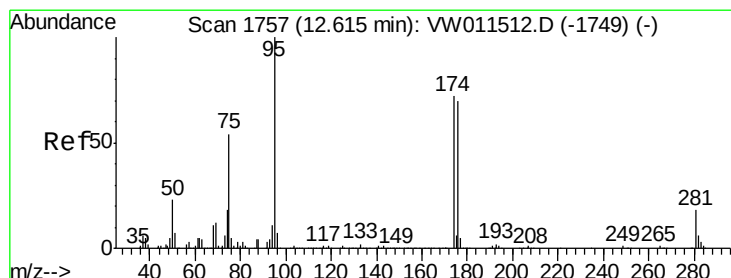
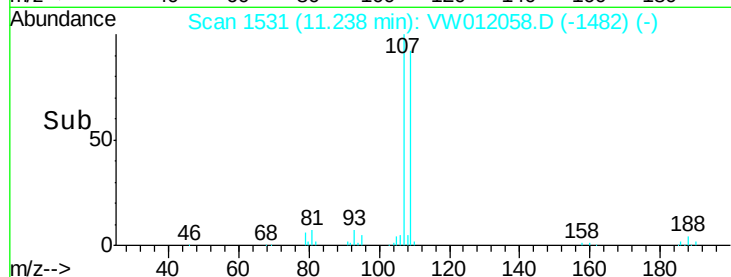
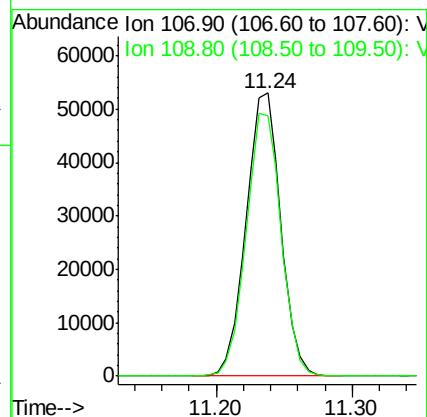
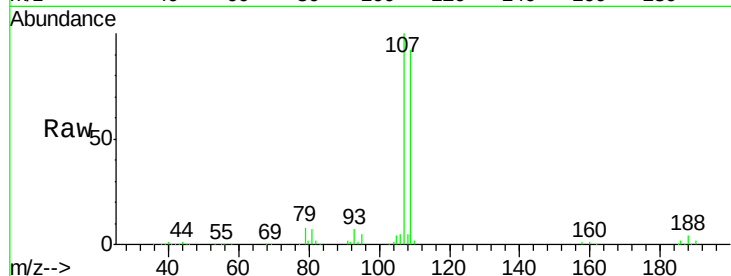
VSTDCCC050

Tot Ion:107 Resp: 94364

Ion Ratio Lower Upper

107 100

109 94.0 75.0 112.6



#62

4-Bromofluorobenzene

Concen: 54.268 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

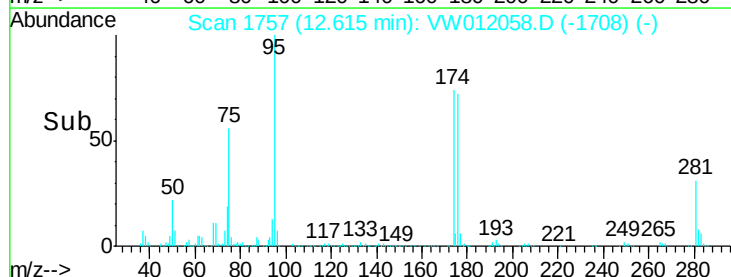
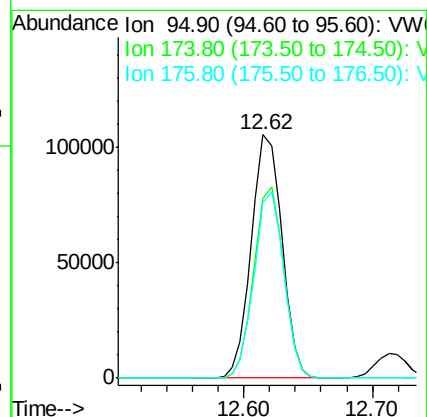
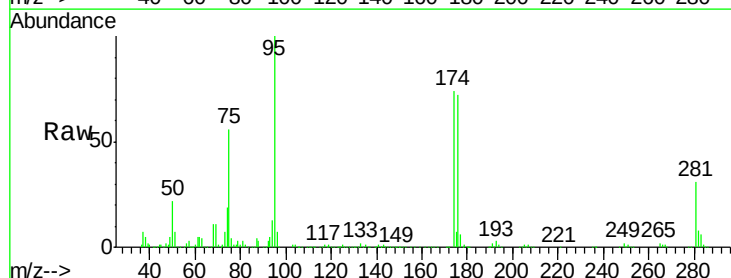
Tgt Ion: 95 Resp: 173237

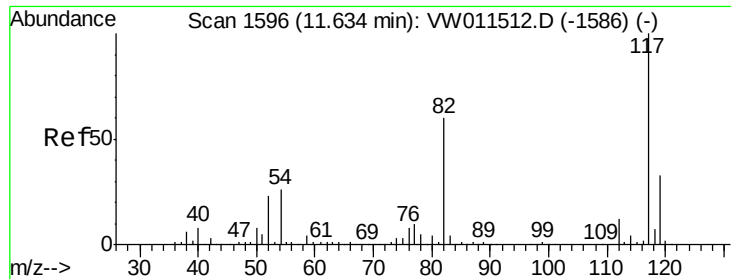
Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.2

176 74.7 0.0 144.4

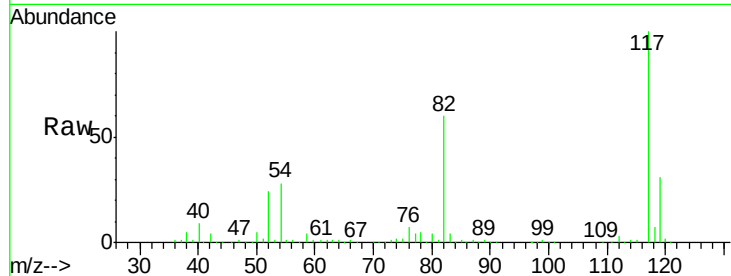




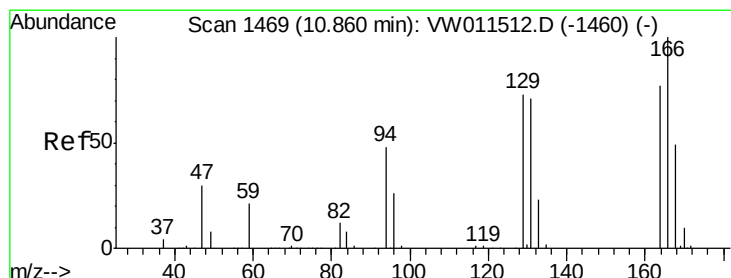
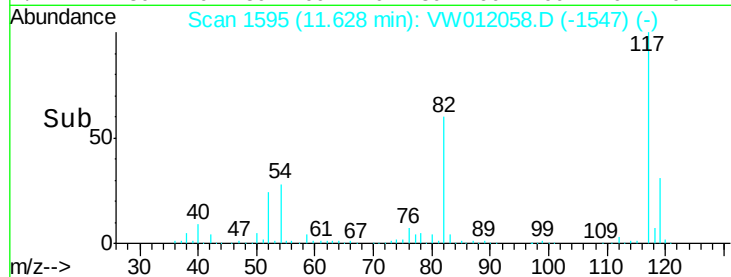
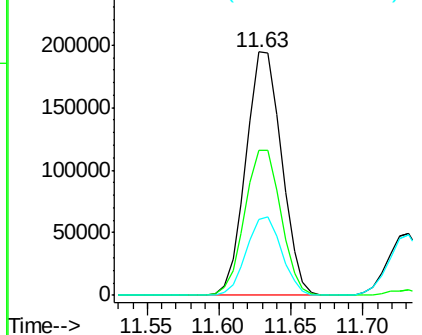
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:117 Resp: 335231  
Ion Ratio Lower Upper  
117 100  
82 59.8 47.9 71.9  
119 31.1 26.2 39.2

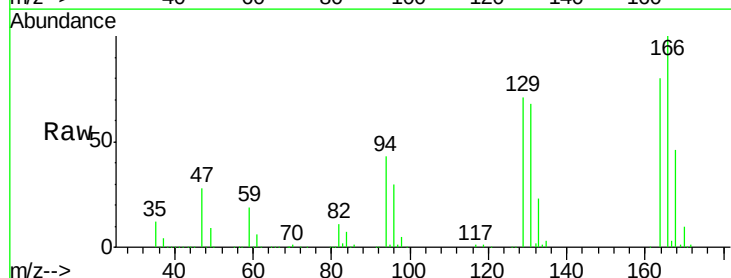


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

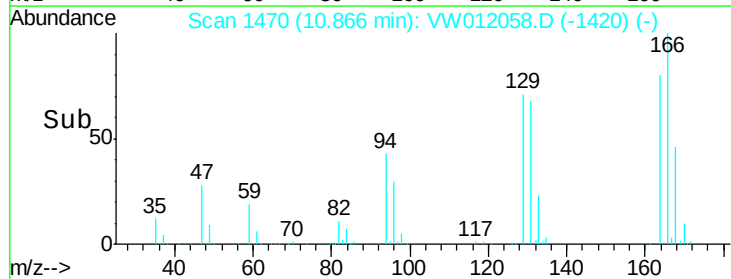
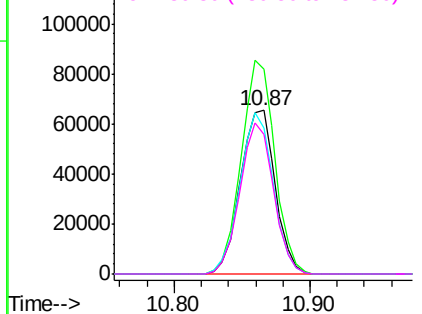


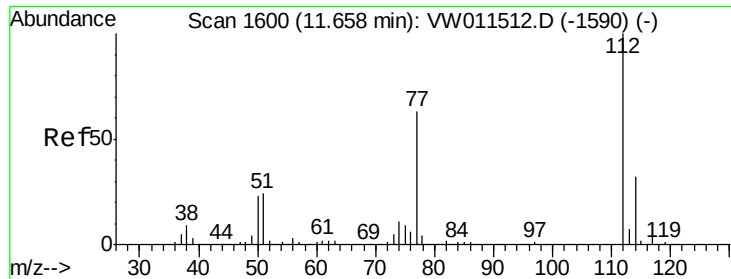
#64  
Tetrachloroethene  
Concen: 53.538 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion:164 Resp: 116858  
Ion Ratio Lower Upper  
164 100  
166 125.3 103.5 155.3  
129 89.4 75.2 112.8  
131 85.5 73.4 110.2



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

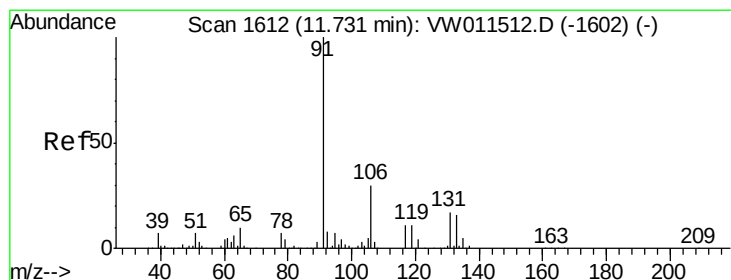
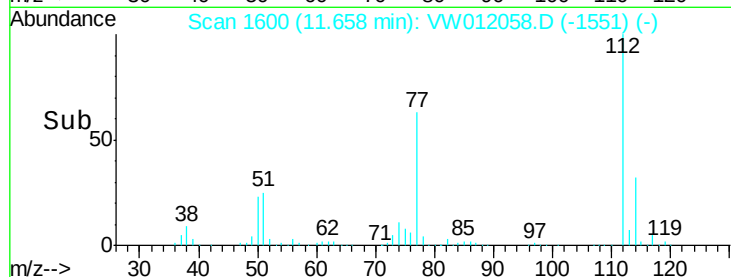
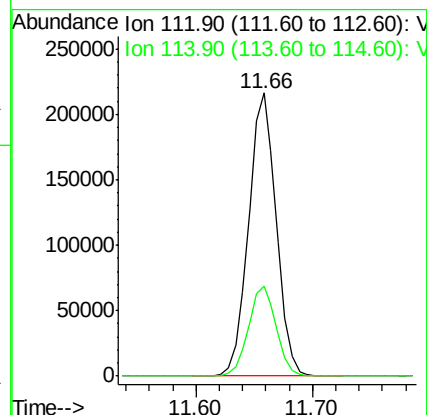
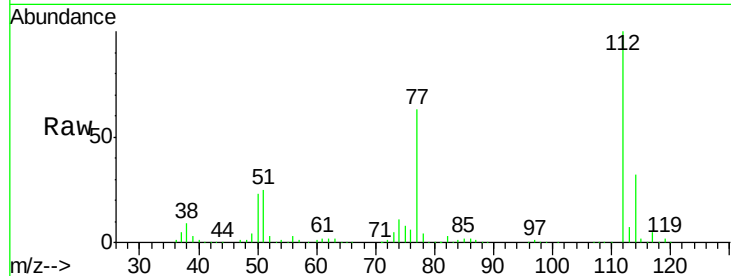




#65  
Chlorobenzene  
Concen: 52.938 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

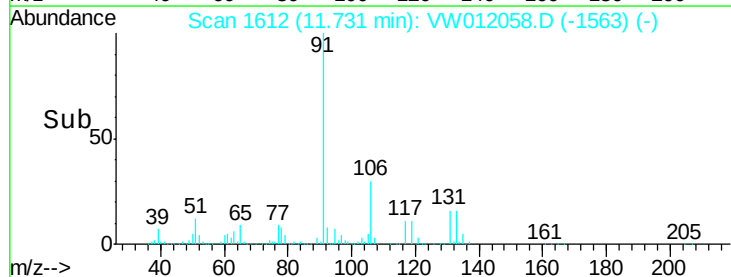
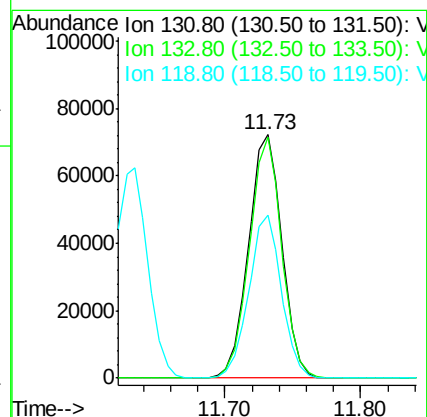
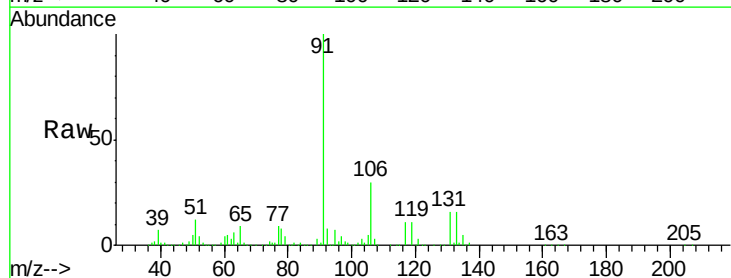
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

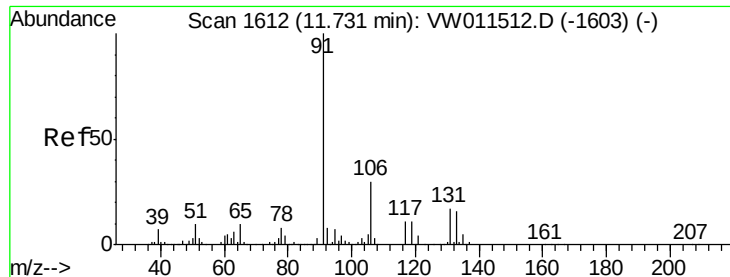
Tot Ion:112 Resp: 356788  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.848 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion:131 Resp: 124067  
Ion Ratio Lower Upper  
131 100  
133 96.0 47.4 142.2  
119 65.5 32.3 96.9

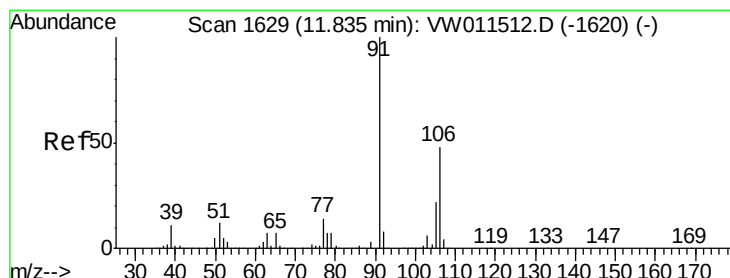
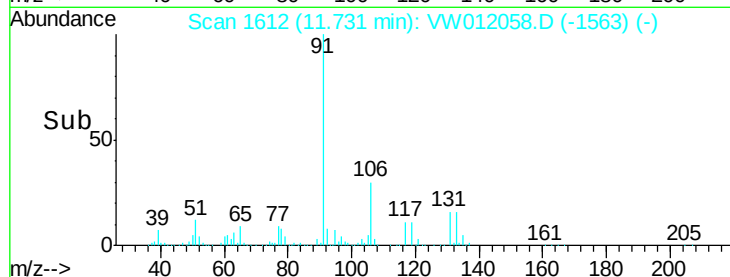
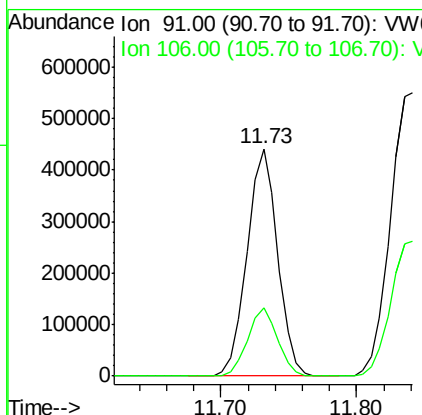
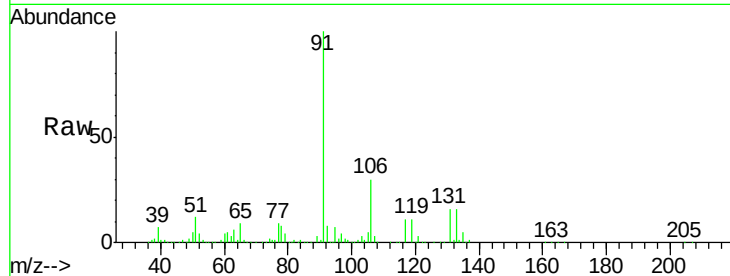




#67  
Ethyl Benzene  
Concen: 54.057 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

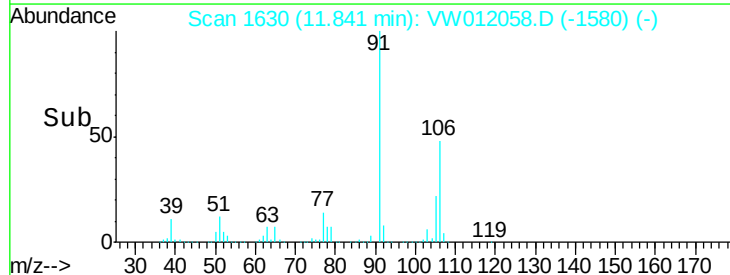
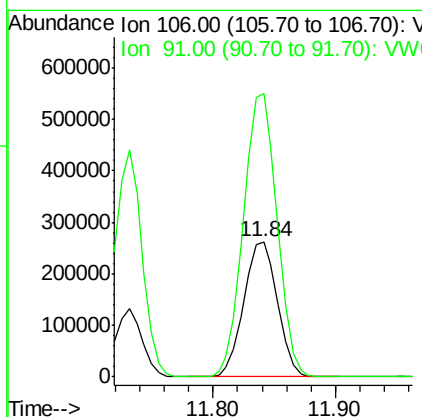
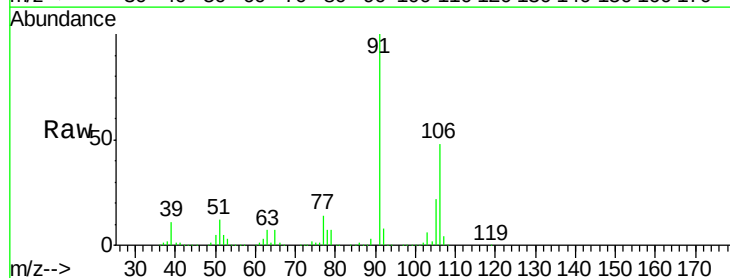
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

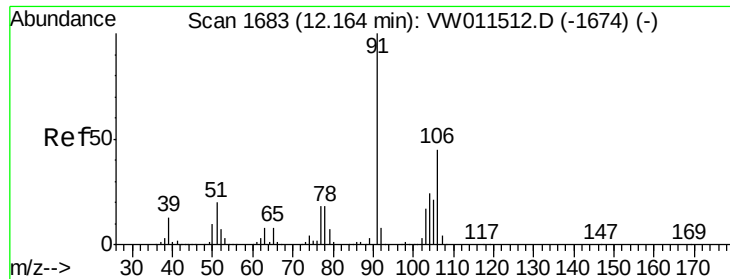
Tot Ion: 91 Resp: 693884  
Ion Ratio Lower Upper  
91 100  
106 29.9 23.8 35.6



#68  
m/p-Xylenes  
Concen: 107.346 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 106 Resp: 501100  
Ion Ratio Lower Upper  
106 100  
91 209.7 168.2 252.2

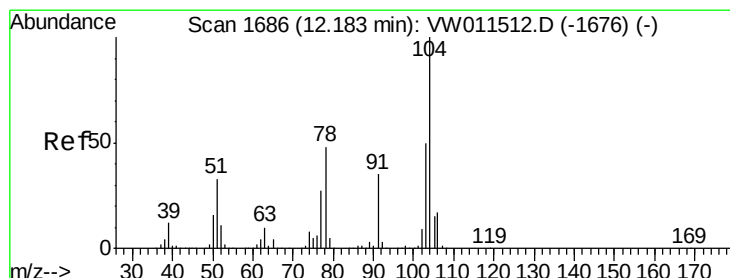
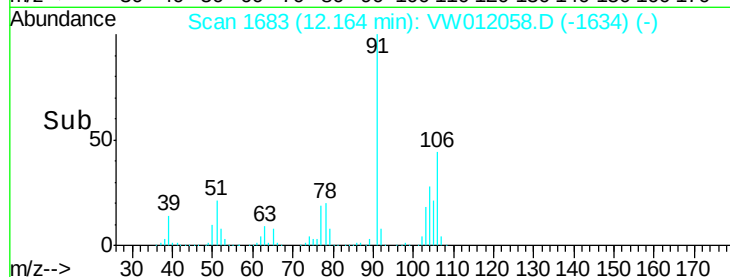
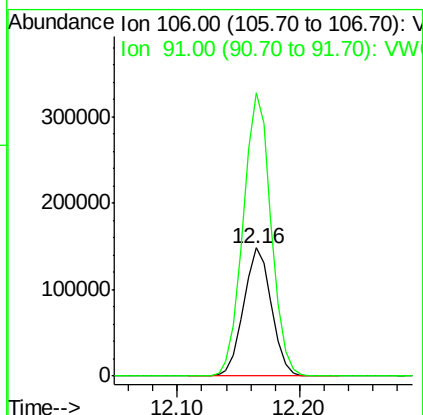
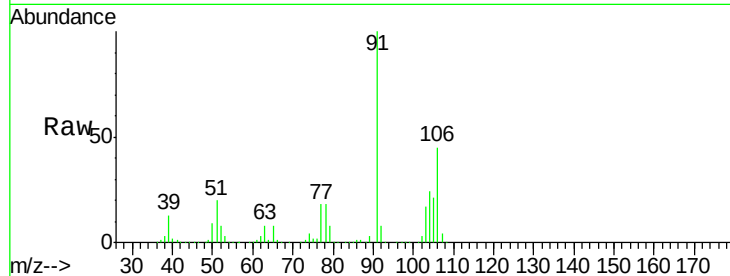




#69  
o-Xylene  
Concen: 53.868 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

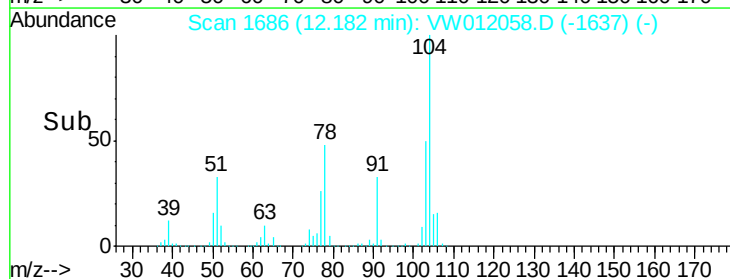
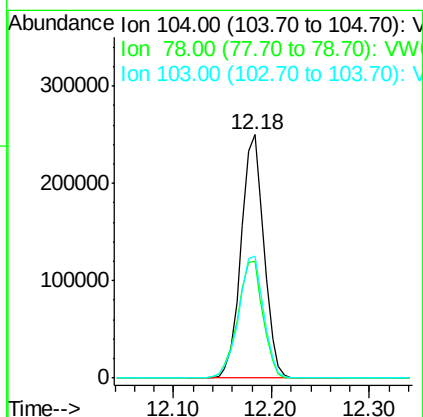
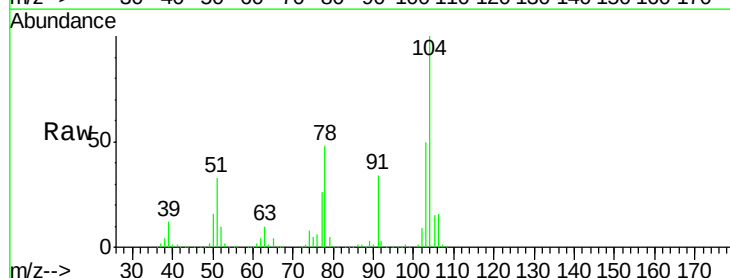
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

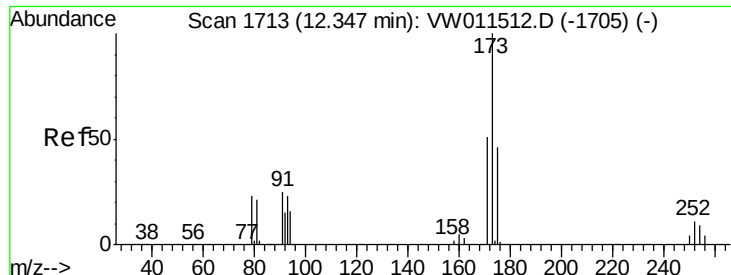
Tot Ion:106 Resp: 233671  
Ion Ratio Lower Upper  
106 100  
91 221.8 110.5 331.5



#70  
Styrene  
Concen: 53.997 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion:104 Resp: 404989  
Ion Ratio Lower Upper  
104 100  
78 53.2 43.4 65.0  
103 54.6 43.9 65.9





#71

Bromoform

Concen: 52.882 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

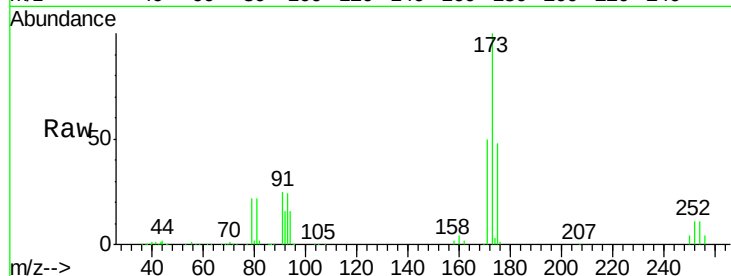
Tot Ion:173 Resp: 63297

Ion Ratio Lower Upper

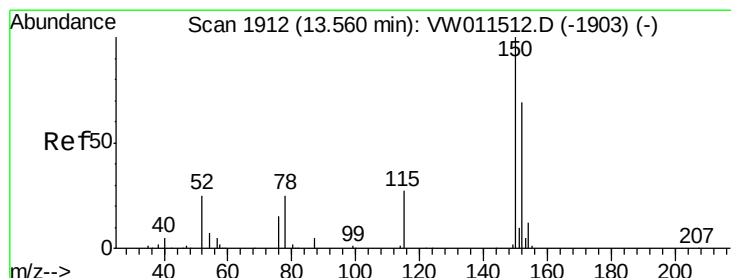
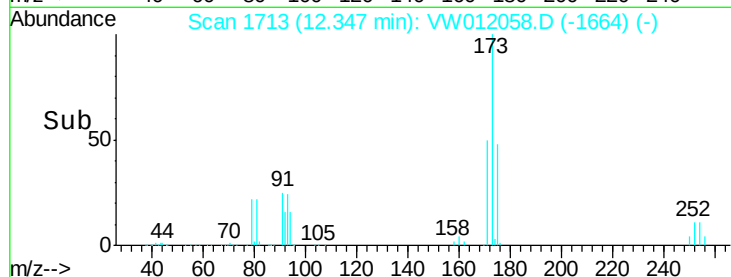
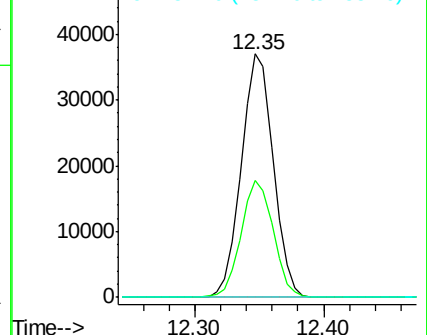
173 100

175 48.5 23.6 71.0

254 0.1 0.1 0.1



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

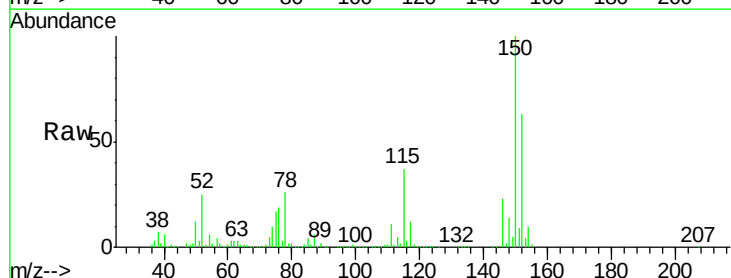
Tgt Ion:152 Resp: 162343

Ion Ratio Lower Upper

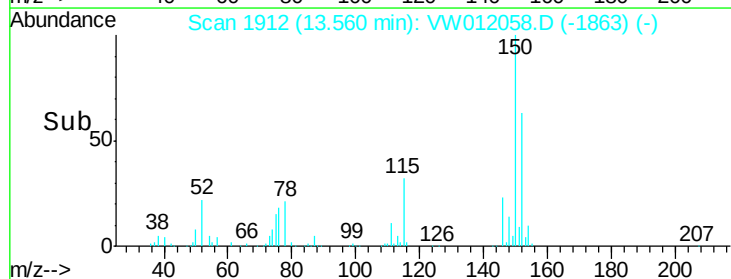
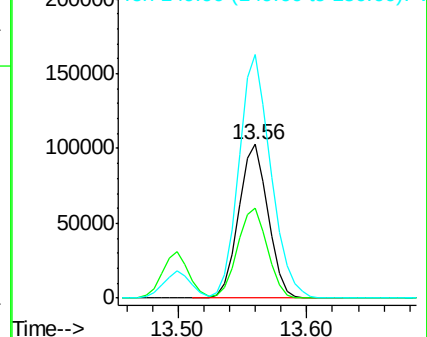
152 100

115 59.4 30.5 91.5

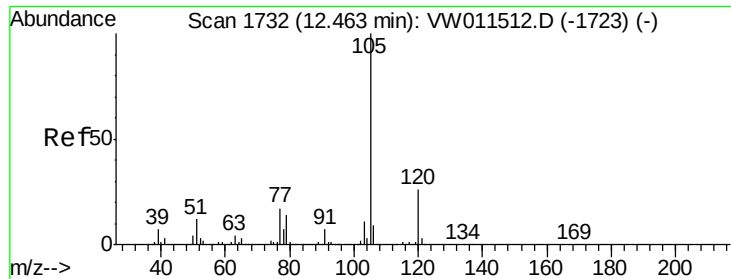
150 172.0 0.0 352.6



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







#73

Isopropylbenzene

Concen: 54.161 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

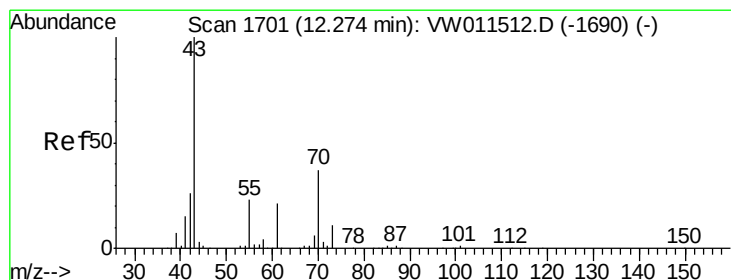
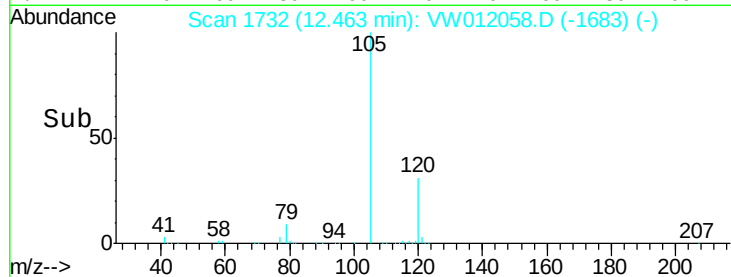
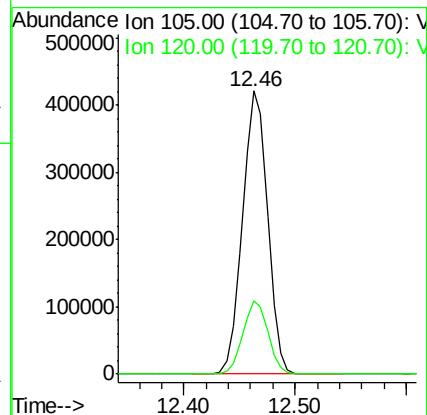
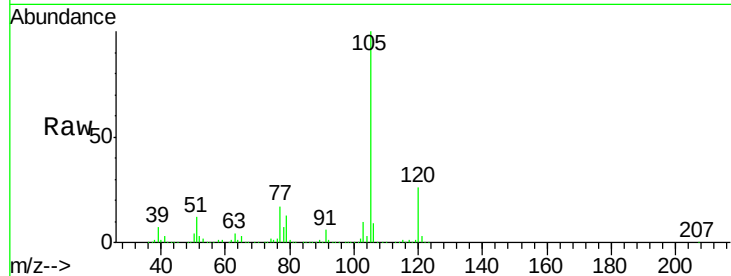
VSTDCCC050

Tot Ion:105 Resp: 655950

Ion Ratio Lower Upper

105 100

120 25.8 12.9 38.7



#74

N-ethyl acetate

Concen: 52.632 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Tgt Ion: 43 Resp: 199564

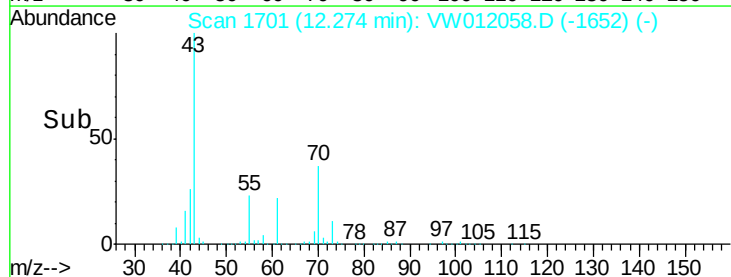
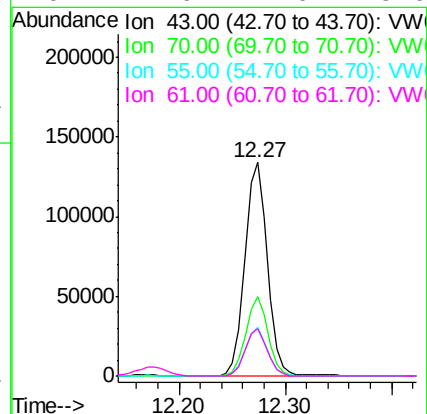
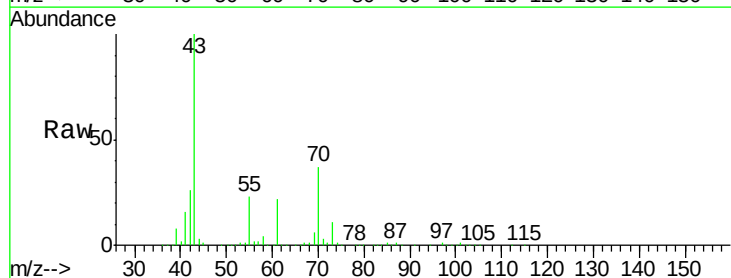
Ion Ratio Lower Upper

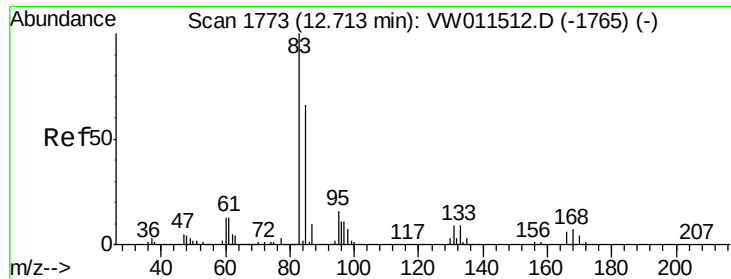
43 100

70 36.3 28.6 43.0

55 22.3 17.8 26.8

61 21.6 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 51.217 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

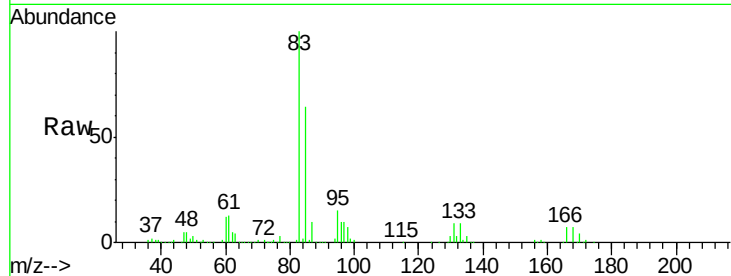
Tot Ion: 83 Resp: 116678

Ion Ratio Lower Upper

83 100

131 10.0 4.9 14.6

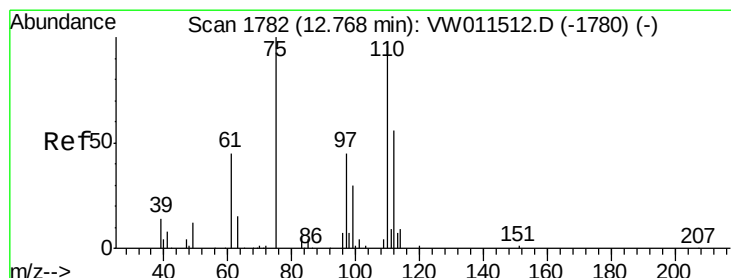
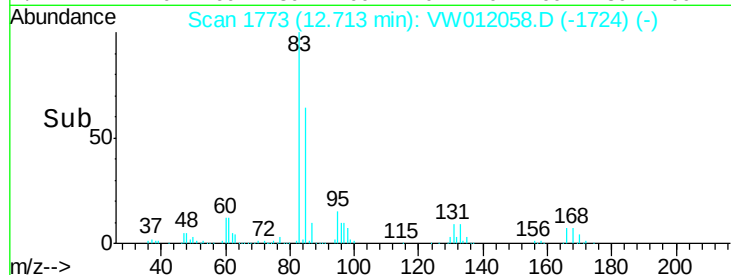
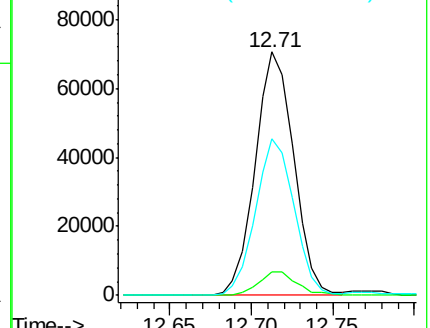
85 64.2 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 47.787 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012058.D

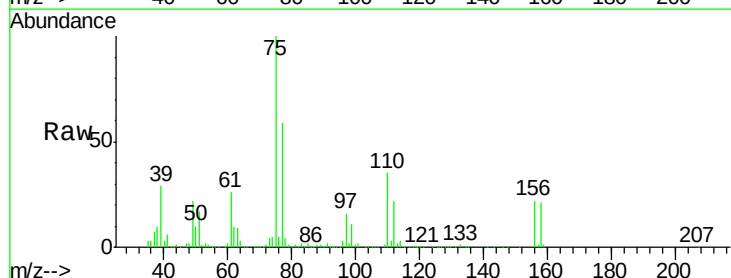
Acq: 21 Aug 2019 08:57

Tgt Ion: 75 Resp: 82088

Ion Ratio Lower Upper

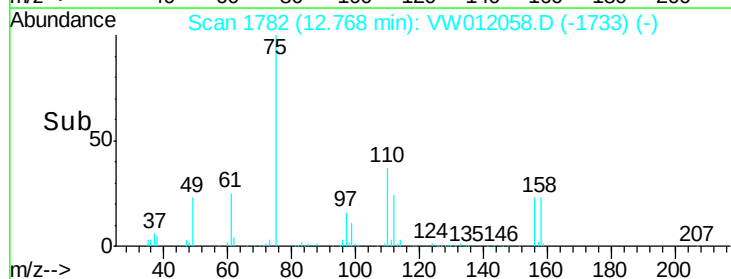
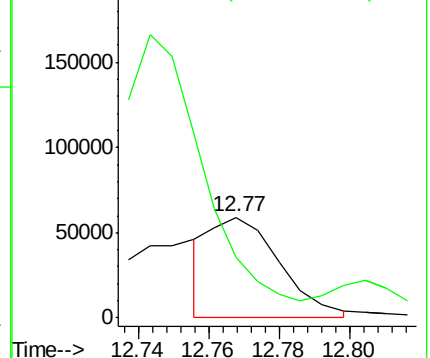
75 100

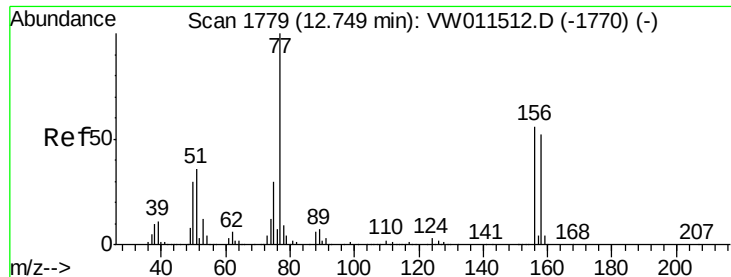
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 52.297 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

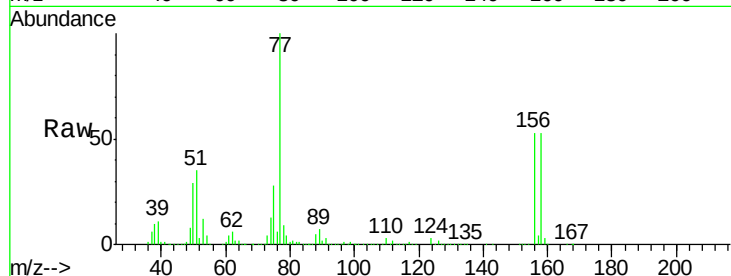
Tot Ion:156 Resp: 139997

Ion Ratio Lower Upper

156 100

77 213.4 106.5 319.4

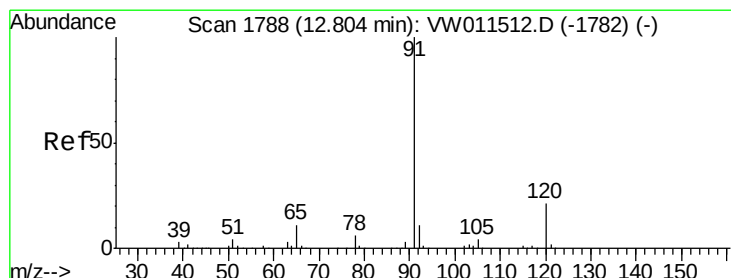
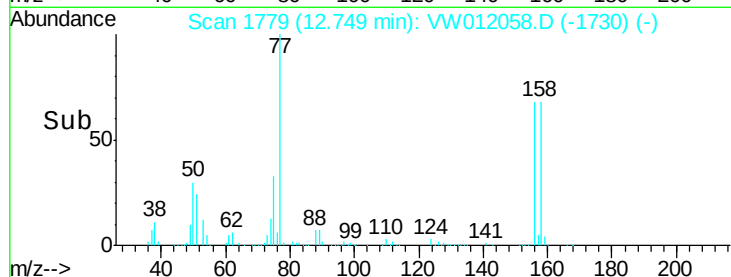
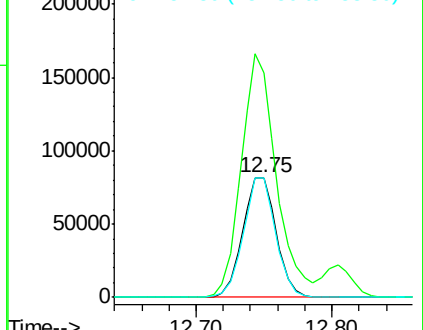
158 97.0 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 54.313 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012058.D

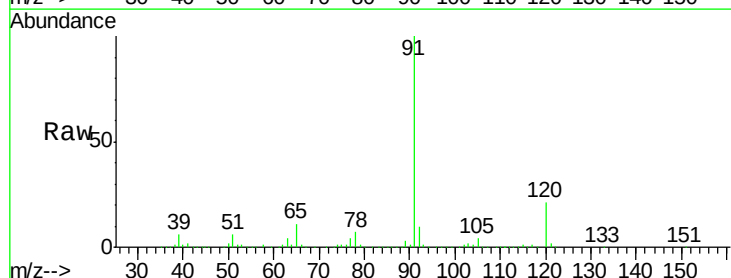
Acq: 21 Aug 2019 08:57

Tgt Ion: 91 Resp: 800541

Ion Ratio Lower Upper

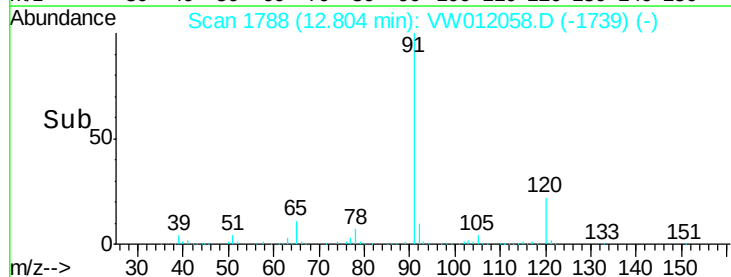
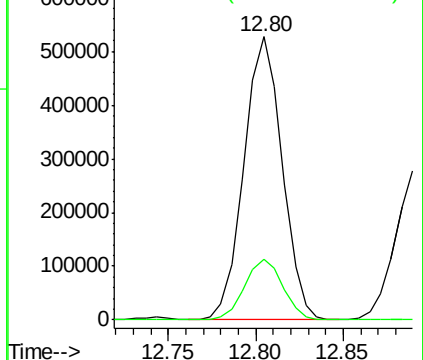
91 100

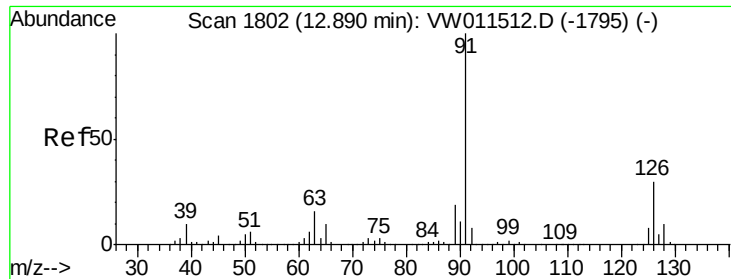
120 21.6 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.086 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

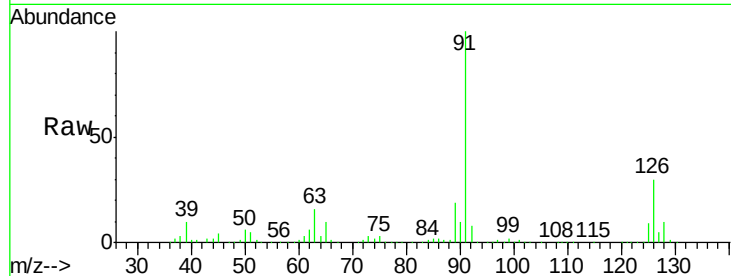
VSTDCCC050

Tot Ion: 91 Resp: 450771

Ion Ratio Lower Upper

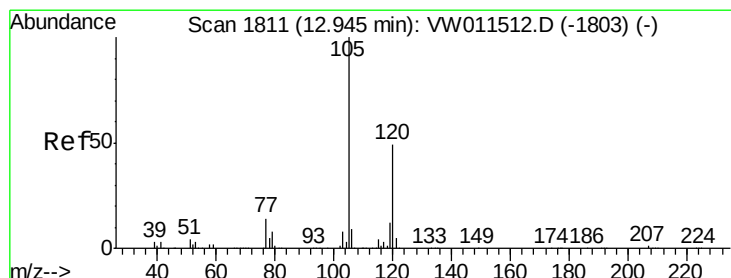
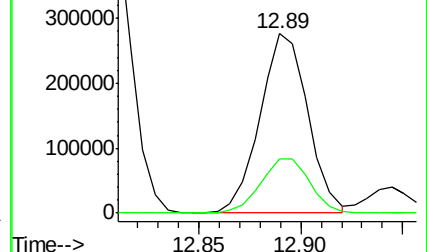
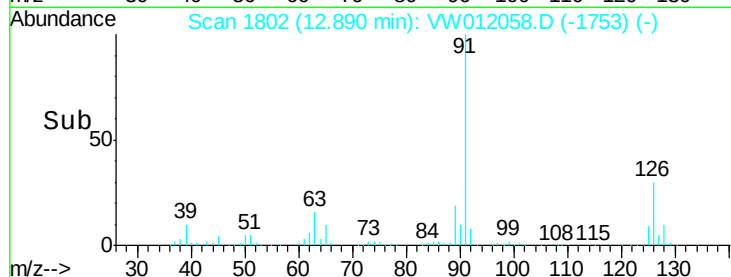
91 100

126 31.4 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 54.250 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012058.D

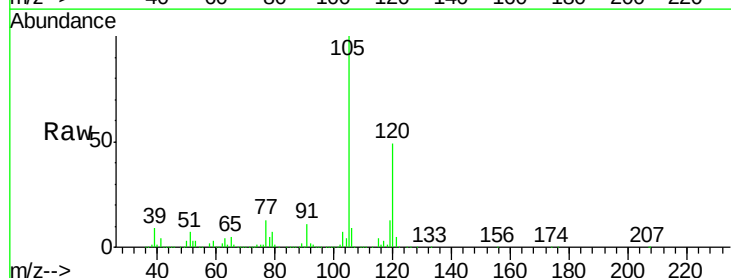
Acq: 21 Aug 2019 08:57

Tgt Ion:105 Resp: 550756

Ion Ratio Lower Upper

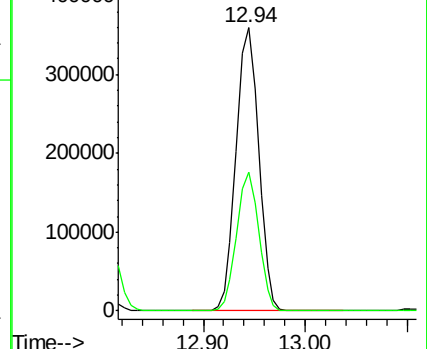
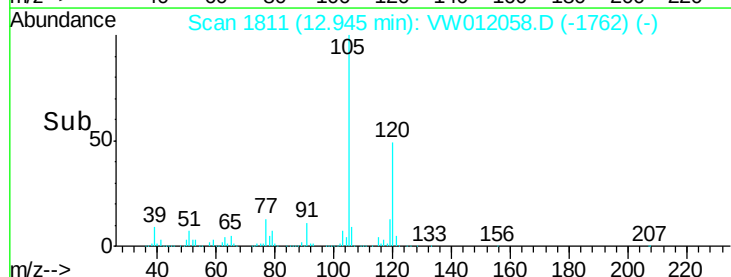
105 100

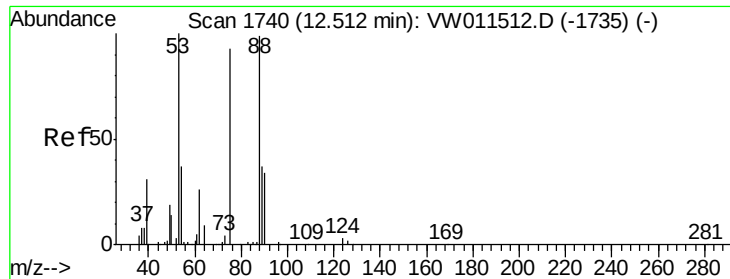
120 48.0 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 53.635 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

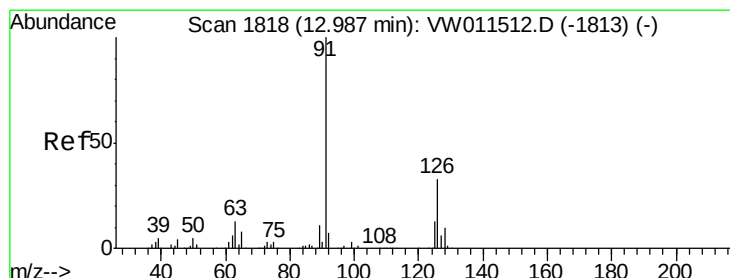
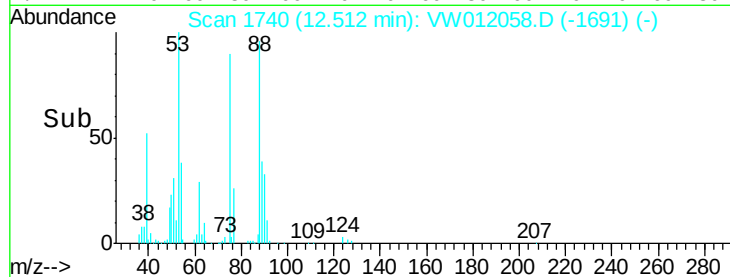
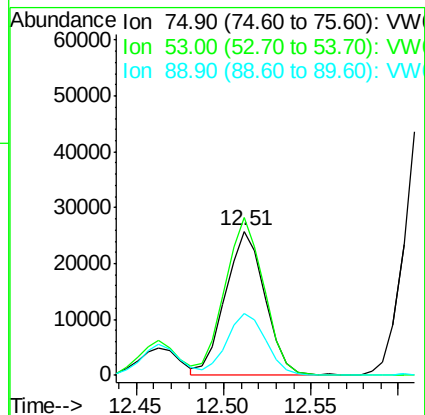
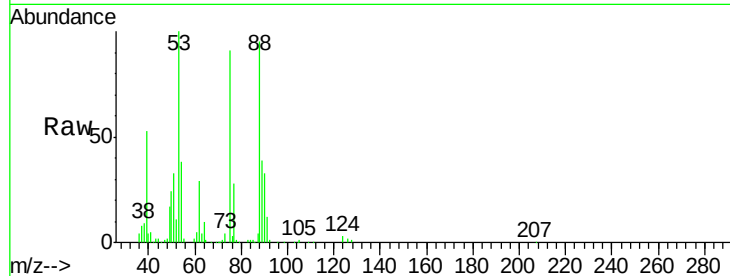
Tot Ion: 75 Resp: 39977

Ion Ratio Lower Upper

75 100

53 110.3 88.0 132.0

89 43.2 35.3 52.9



#82

4-Chlorotoluene

Concen: 52.929 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW012058.D

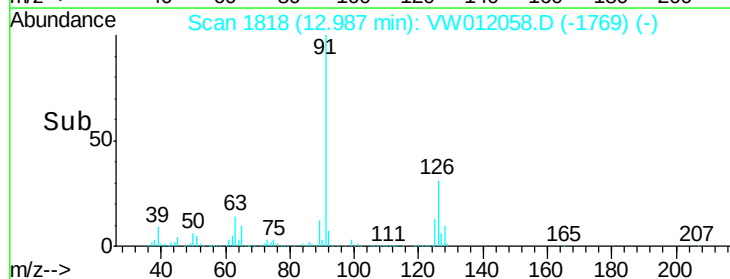
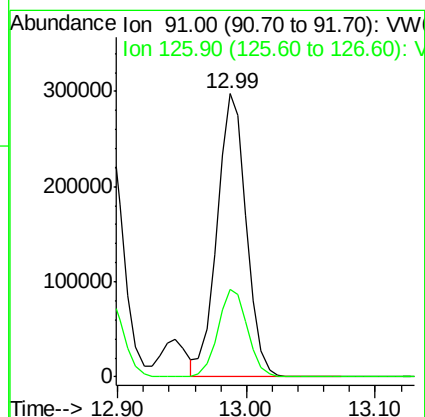
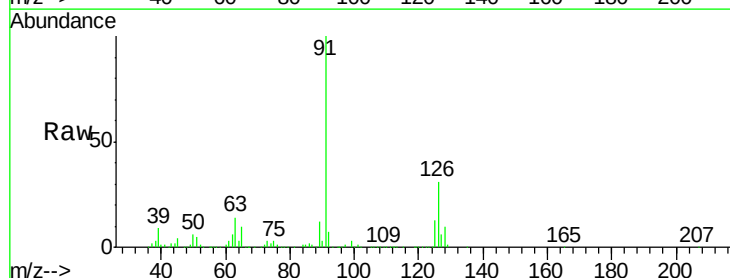
Acq: 21 Aug 2019 08:57

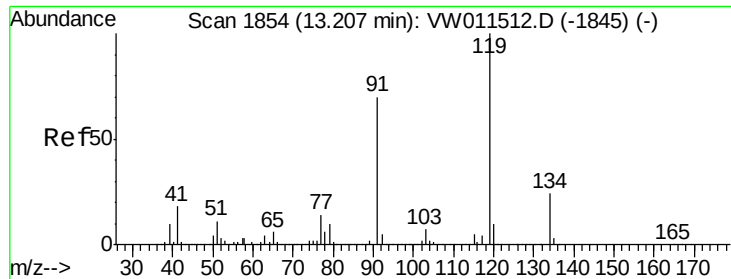
Tgt Ion: 91 Resp: 471553

Ion Ratio Lower Upper

91 100

126 31.4 15.6 46.8

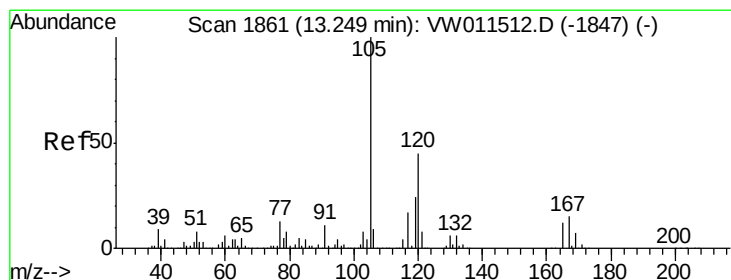
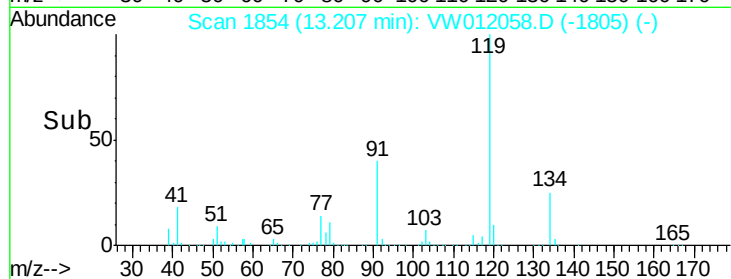
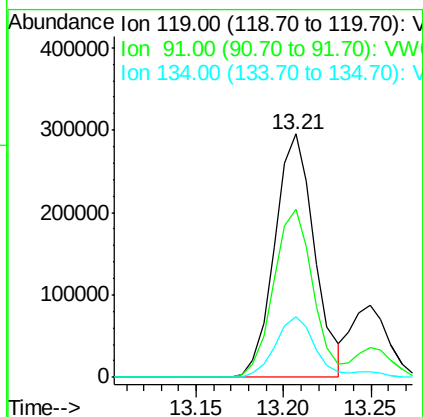
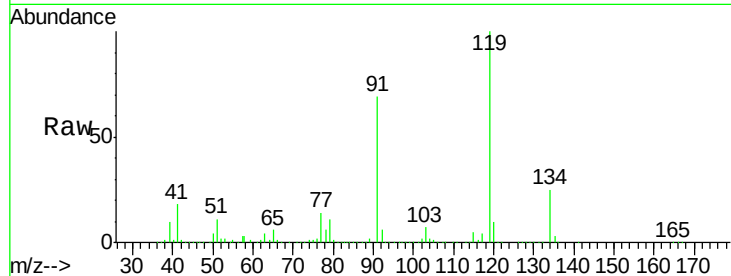




#83  
 tert-Butylbenzene  
 Concen: 55.259 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

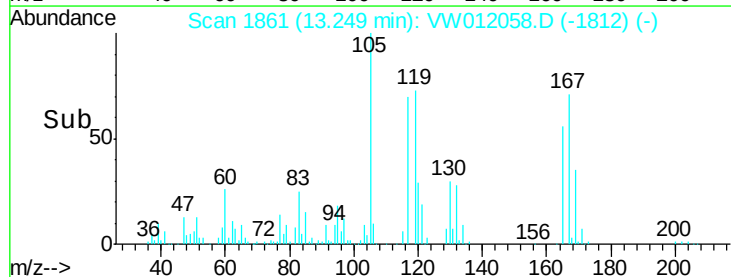
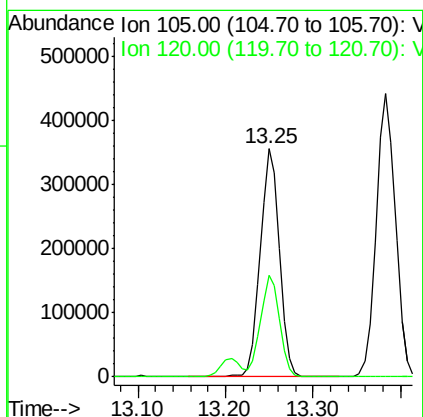
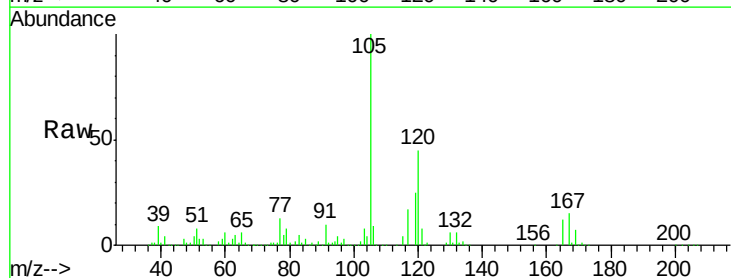
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

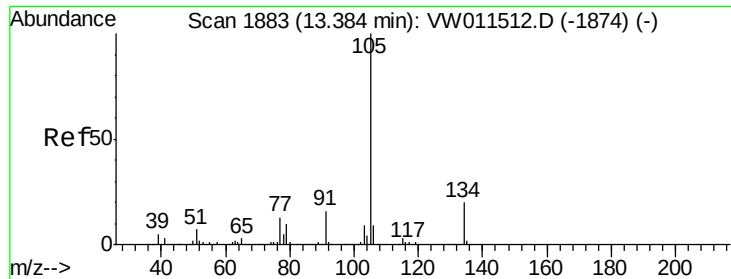
Tot Ion:119 Resp: 469134  
 Ion Ratio Lower Upper  
 119 100  
 91 68.1 34.5 103.6  
 134 24.7 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 53.275 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion:105 Resp: 544839  
 Ion Ratio Lower Upper  
 105 100  
 120 44.1 22.1 66.5





#85

sec-Butylbenzene

Concen: 55.312 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

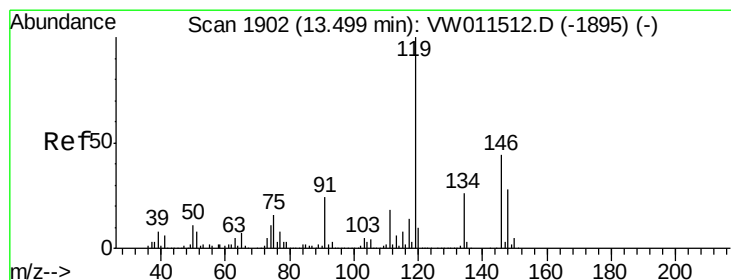
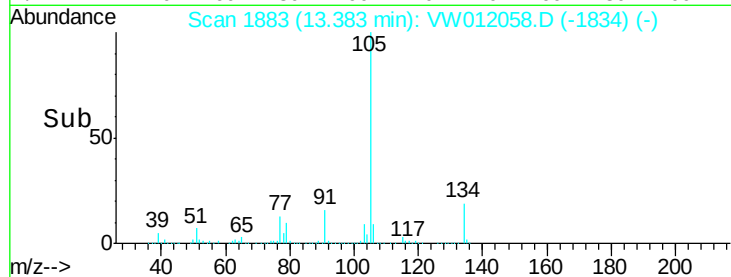
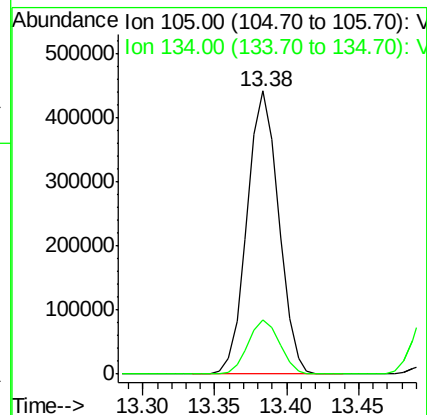
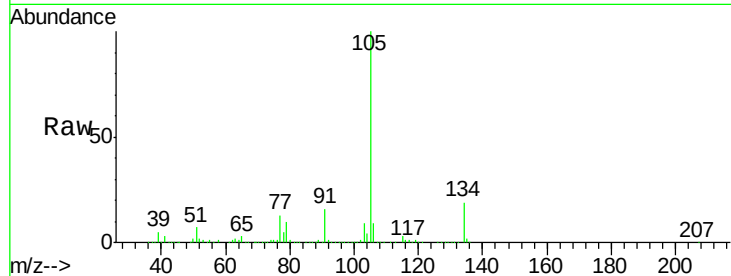
VSTDCCC050

Tot Ion:105 Resp: 670038

Ion Ratio Lower Upper

105 100

134 19.3 9.7 29.1



#86

p-Isopropyltoluene

Concen: 54.776 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

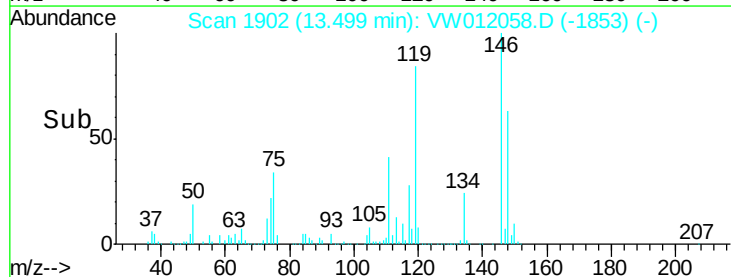
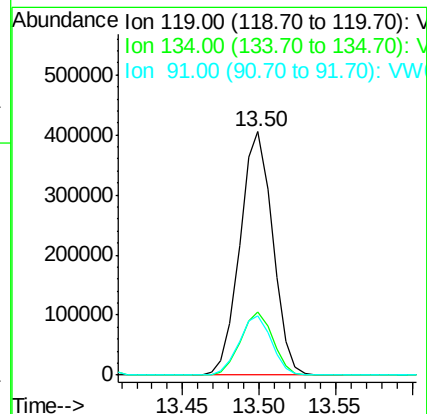
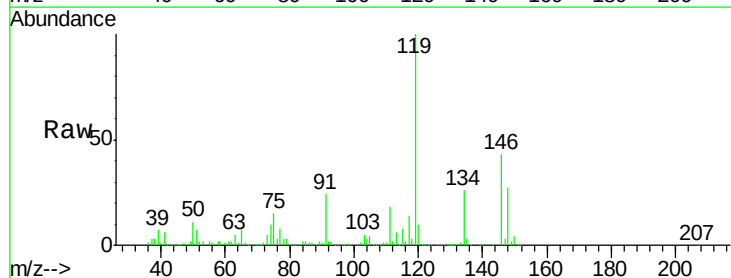
Tgt Ion:119 Resp: 602040

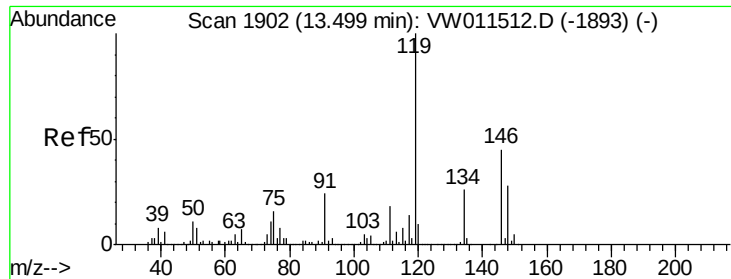
Ion Ratio Lower Upper

119 100

134 25.4 12.8 38.4

91 24.2 12.1 36.3

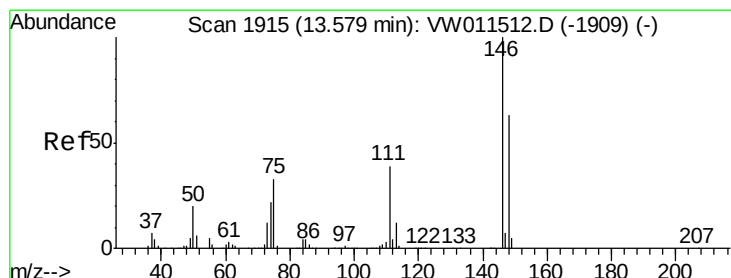
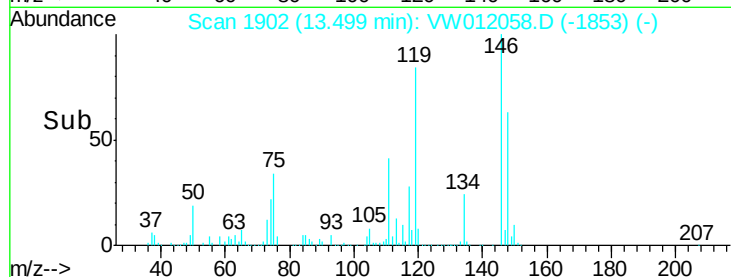
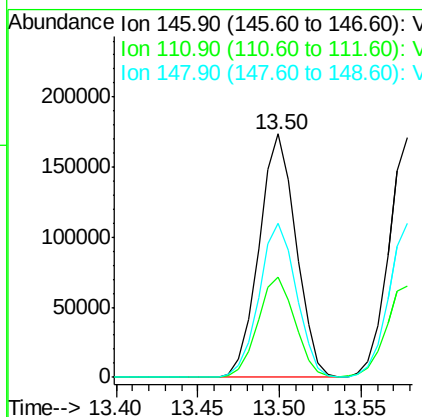
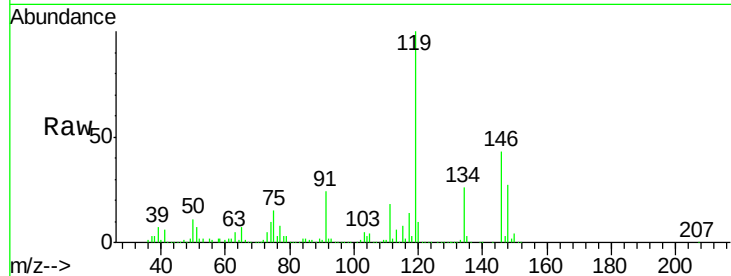




#87  
 1,3-Dichlorobenzene  
 Concen: 51.991 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

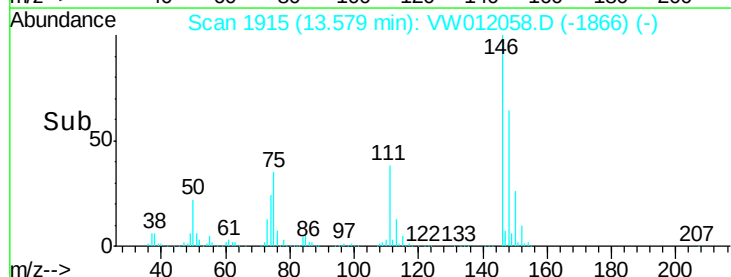
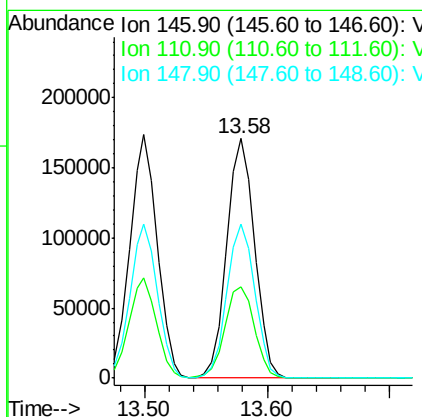
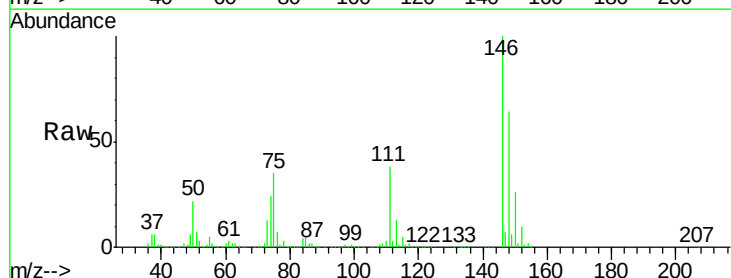
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tot Ion:146 Resp: 272894  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 20.5 61.6  
 148 63.7 31.8 95.3

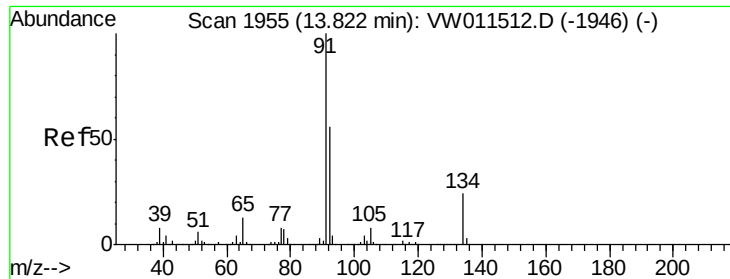


#88  
 1,4-Dichlorobenzene  
 Concen: 51.515 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

Tgt Ion:146 Resp: 268983  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 20.1 60.2  
 148 64.2 31.9 95.9



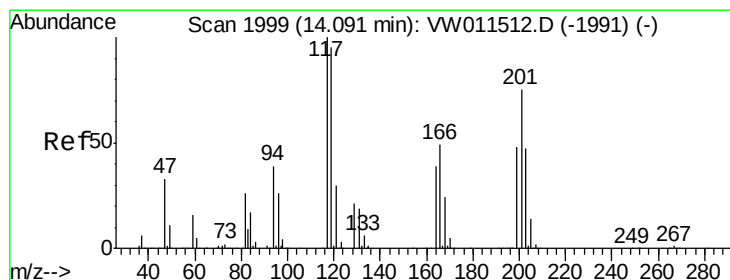
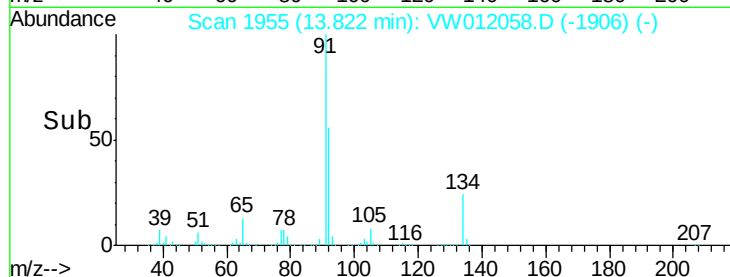
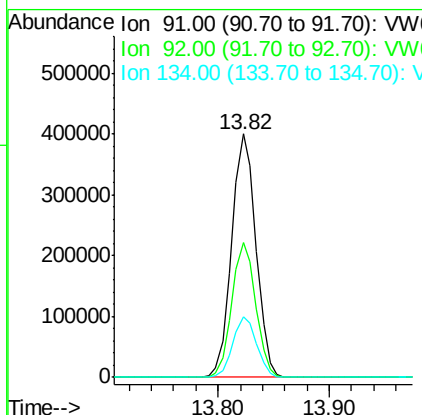
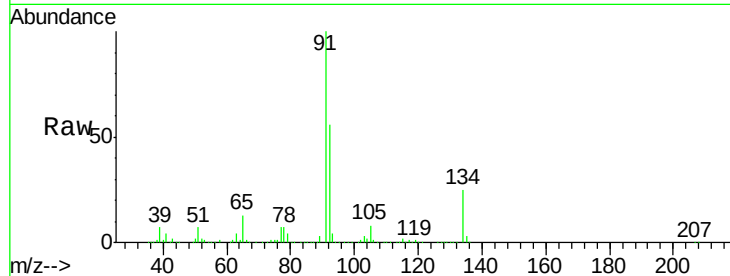




#89  
n-Butylbenzene  
Concen: 54.757 ug/l  
RT: 13.82 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

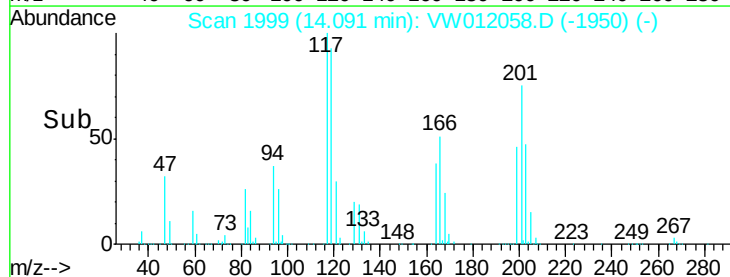
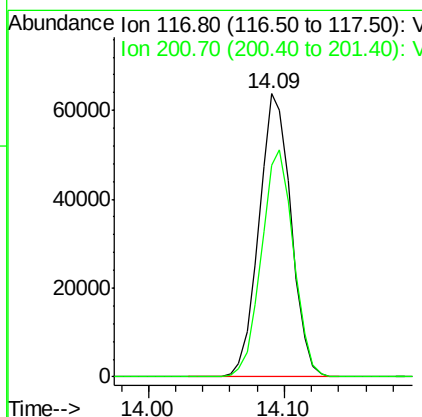
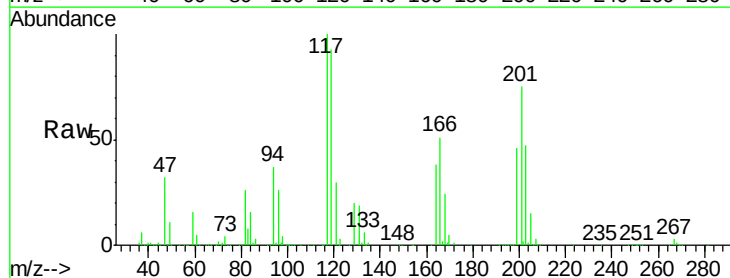
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

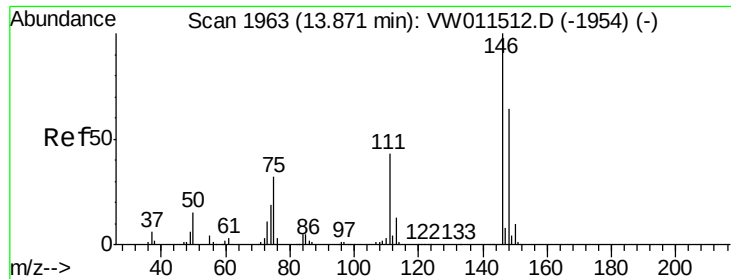
Tot Ion: 91 Resp: 600592  
Ion Ratio Lower Upper  
91 100  
92 54.7 27.5 82.4  
134 24.6 12.2 36.6



#90  
Hexachloroethane  
Concen: 54.306 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion: 117 Resp: 105544  
Ion Ratio Lower Upper  
117 100  
201 80.3 39.4 118.2

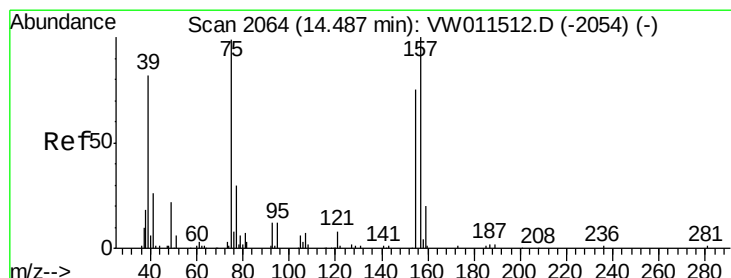
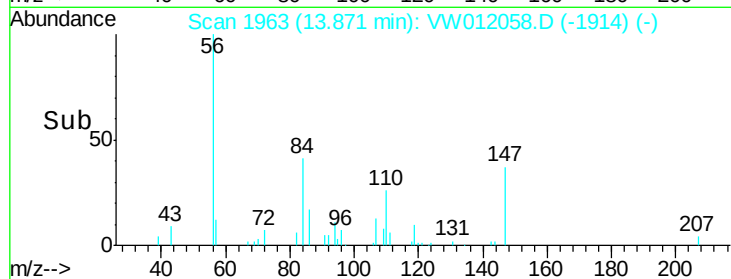
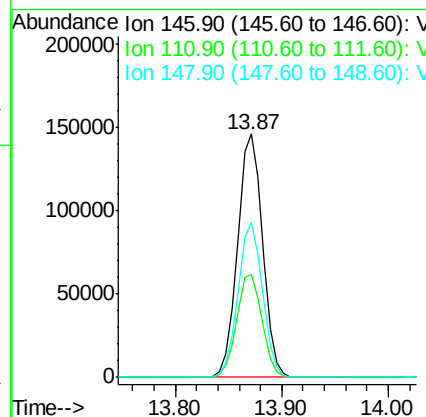
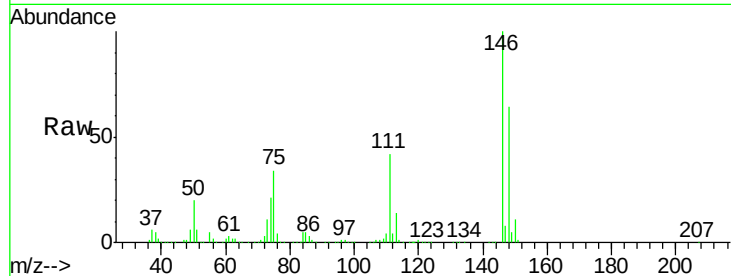




#91  
 1,2-Dichlorobenzene  
 Concen: 51.870 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

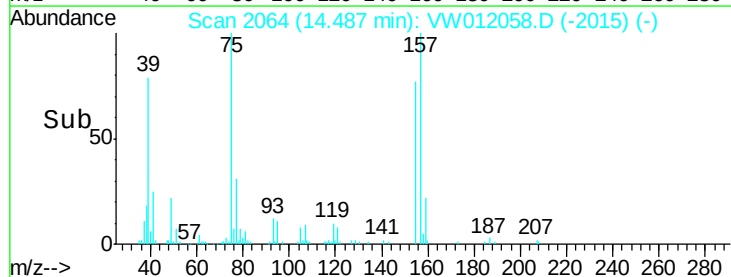
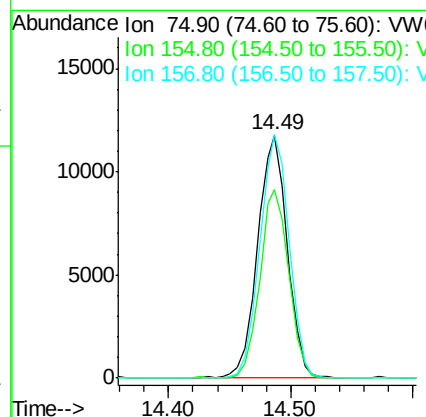
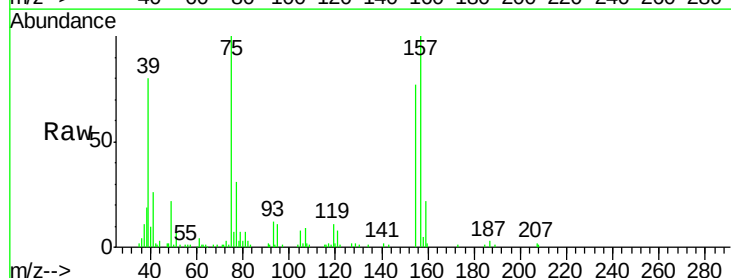
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

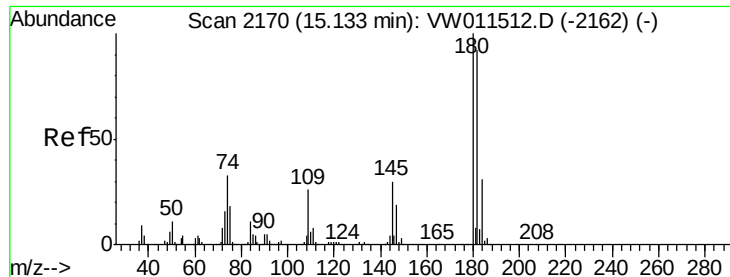
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.9  | 21.6  | 65.0  |
| 148     | 62.8  | 32.0  | 96.2  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 50.953 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW012058.D  
 Acq: 21 Aug 2019 08:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 75.6  | 38.2  | 114.6 |
| 157     | 99.3  | 48.9  | 146.7 |





#93

1,2,4-Trichlorobenzene

Concen: 53.496 ug/l

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

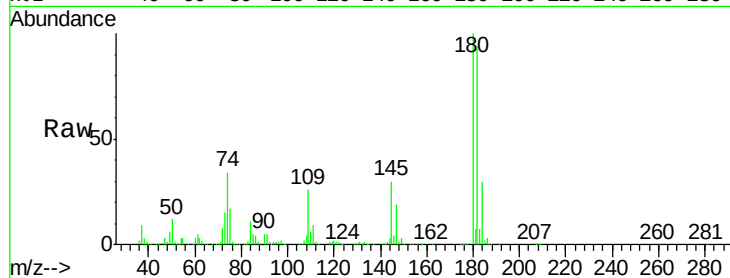
Tot Ion:180 Resp: 175030

Ion Ratio Lower Upper

180 100

182 95.7 47.4 142.2

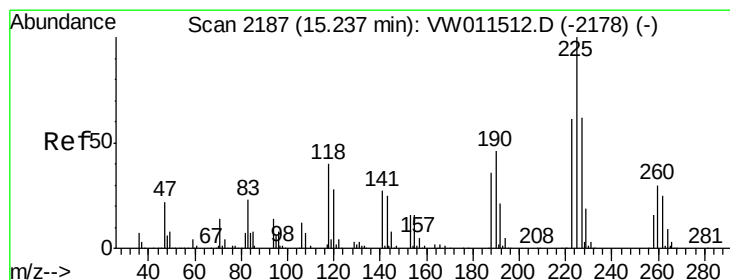
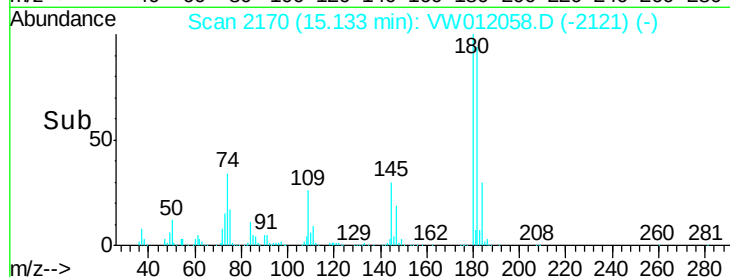
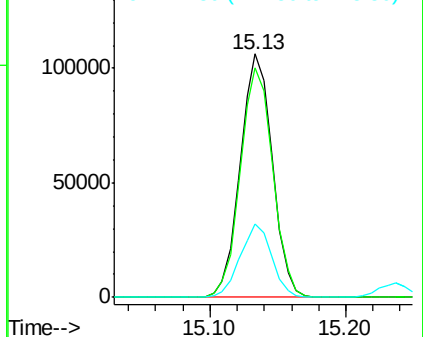
145 29.9 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 54.887 ug/l

RT: 15.24 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VW012058.D

Acq: 21 Aug 2019 08:57

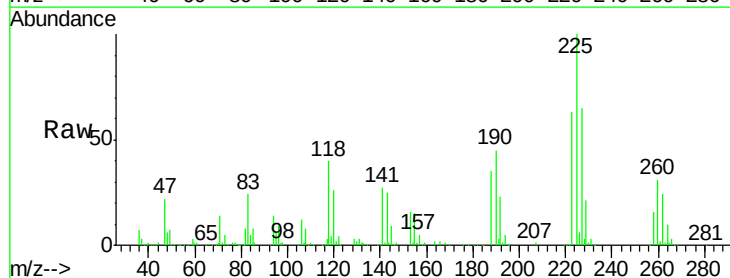
Tgt Ion:225 Resp: 111989

Ion Ratio Lower Upper

225 100

223 63.1 30.8 92.3

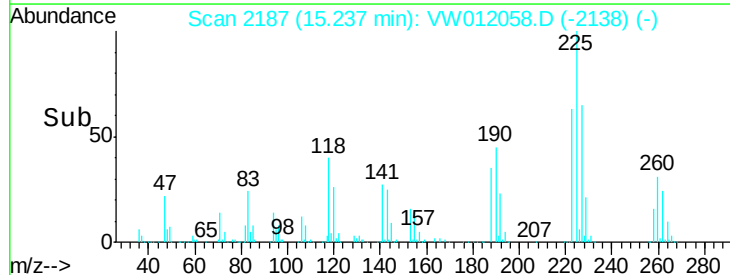
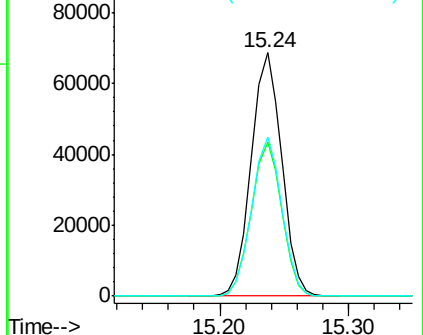
227 64.5 31.6 94.7

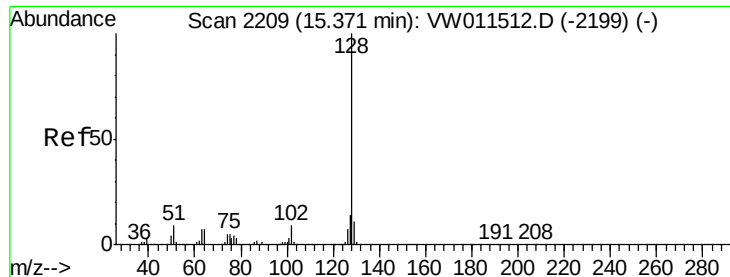


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

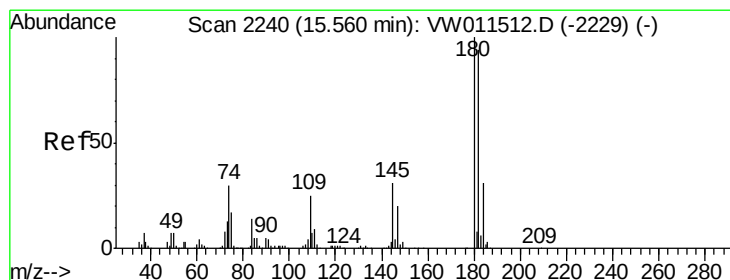
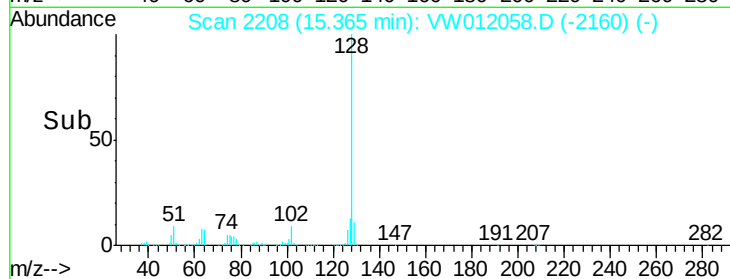
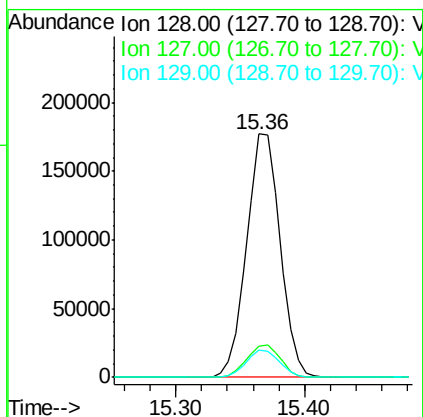
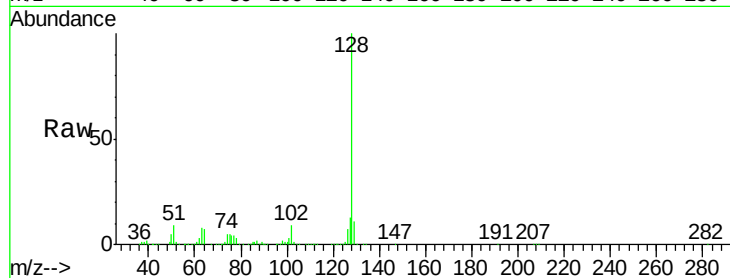




#95  
Naphthalene  
Concen: 49.586 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:128 Resp: 317679  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 16.0  
129 11.2 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 53.425 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW012058.D  
Acq: 21 Aug 2019 08:57

Tgt Ion:180 Resp: 153221  
Ion Ratio Lower Upper  
180 100  
182 94.7 47.4 142.2  
145 31.2 15.9 47.7

