

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080419\  
 Data File : VW011657.D  
 Acq On : 03 Aug 2019 11:09  
 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 04 01:41:25 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  | 251246   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 393310   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 342324   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 164088   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 150068   | 52.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.04% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 122367   | 55.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.92% |      |
| 50) Toluene-d8            | 10.32  | 98  | 511937   | 56.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.34% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 175994   | 54.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.28% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 73646   | 52.596  | ug/l | 97     |
| 3) Chloromethane              | 2.21 | 50  | 111273  | 45.829  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 151947  | 51.980  | ug/l | 99     |
| 5) Bromomethane               | 2.77 | 94  | 75849   | 46.878  | ug/l | 97     |
| 6) Chloroethane               | 2.92 | 64  | 85232   | 51.044  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 79031   | 60.495  | ug/l | 98     |
| 8) Diethyl Ether              | 3.68 | 74  | 71857   | 48.512  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 135837  | 54.812  | ug/l | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 180576  | 51.561  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 44484   | 205.776 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 137148  | 52.414  | ug/l | 98     |
| 13) Acrolein                  | 3.89 | 56  | 69883   | 337.586 | ug/l | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 295938  | 53.176  | ug/l | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 176300  | 238.434 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 238015  | 259.357 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 428779  | 52.356  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 92683   | 44.956  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 205111  | 49.397  | ug/l | 97     |
| 20) Methylene Chloride        | 4.92 | 84  | 142955  | 45.167  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 146683  | 51.997  | ug/l | 97     |
| 22) Diisopropyl ether         | 6.31 | 45  | 527264  | 50.251  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1664549 | 252.468 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 290132  | 51.629  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 285865  | 238.051 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 169109  | 48.933  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 154832  | 49.869  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 121151  | 48.571  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 160947  | 234.474 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 261922  | 50.521  | ug/l | 95     |
| 31) Cyclohexane               | 7.95 | 56  | 277015  | 51.354  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 212338  | 53.780  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 227652  | 55.665  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 116389  | 49.466  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 196615  | 56.159  | 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 04 01:41:25 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   | 260403   | 57.826  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 605810   | 52.884  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 69918    | 49.710  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 183700   | 51.219  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 219497   | 50.725  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 148843   | 54.060  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 160730   | 52.439  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 71994    | 51.462  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 193100   | 52.620  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 105244   | 50.632  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 19737    | 974.366 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 559904   | 248.759 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 370656   | 53.579  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 200593   | 52.328  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 242849   | 53.281  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 100287   | 50.524  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 151564   | 52.181  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 191253   | 50.929  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 395143   | 299.623 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 414819   | 261.024 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 115798   | 52.556  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 93113    | 49.570  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 121998   | 54.735  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 363994   | 52.888  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 128605   | 53.646  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 726280   | 55.409  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 524459   | 110.022 | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 241983   | 54.628  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 416233   | 54.346  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 63541    | 51.986  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 686449   | 56.076  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 201985   | 52.704  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 119411   | 51.859  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 160182   | 92.258  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 146224   | 54.043  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 848205   | 56.935  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 467789   | 54.504  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 578988   | 56.424  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 40544    | 53.817  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 498824   | 55.394  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 487684   | 56.833  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 572779   | 55.412  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 702296   | 57.359  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 632142   | 56.903  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 287728   | 54.234  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 280074   | 53.069  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 644696   | 58.153  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 110727   | 56.367  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 250710   | 53.430  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 20209    | 51.468  | ug/l   | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080419\  
Data File : VW011657.D  
Acq On : 03 Aug 2019 11:09  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

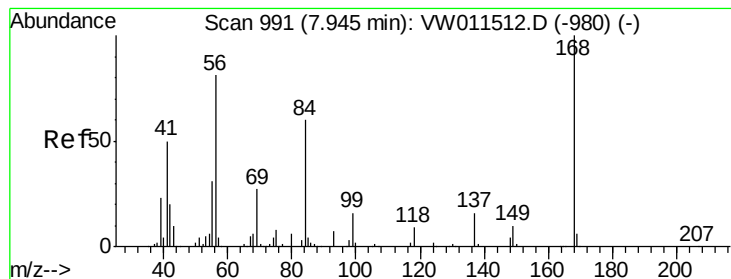
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 04 01:41:25 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) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 183832   | 55.589 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 118996   | 57.701 | ug/l  | 98       |
| 95) Naphthalene            | 15.37 | 128  | 327011   | 50.461 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 158660   | 54.734 | ug/l  | 99       |

(#) = 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: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

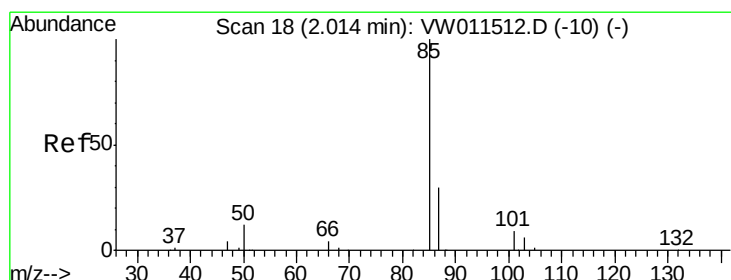
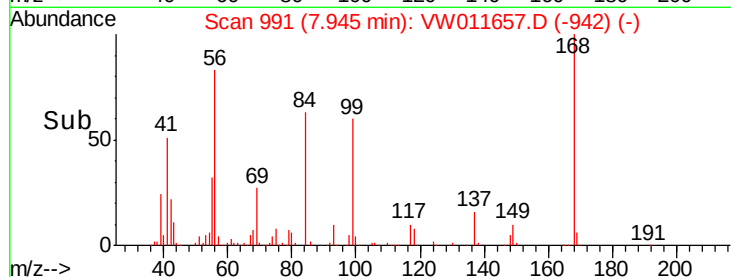
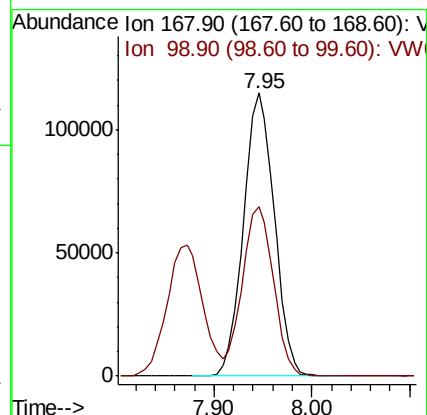
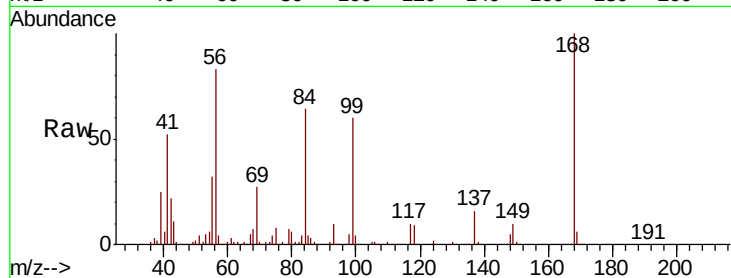
VSTDCCC050

Tgt Ion: 168 Resp: 251246

Ion Ratio Lower Upper

168 100

99 59.9 48.2 72.4



#2

Dichlorodifluoromethane

Concen: 52.596 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW011657.D

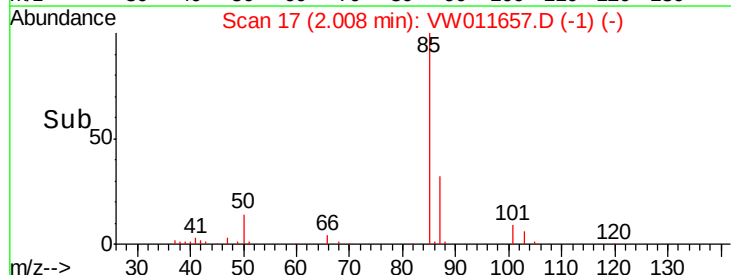
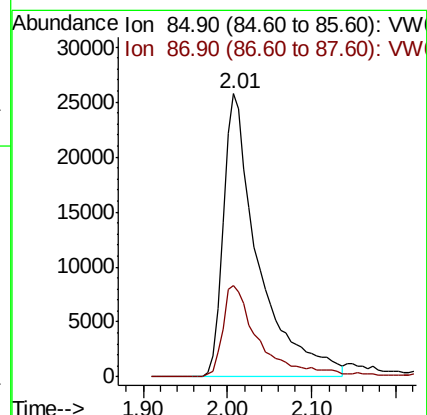
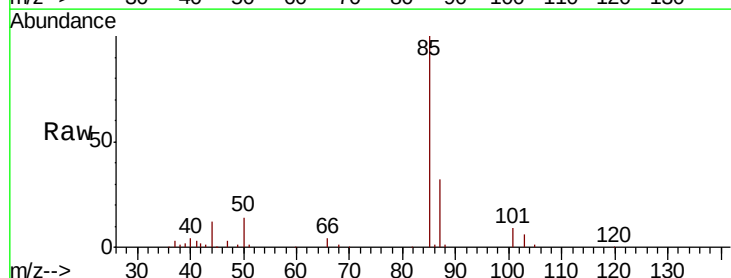
Acq: 03 Aug 2019 11:09

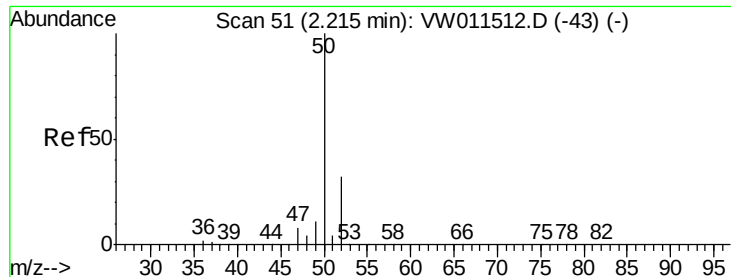
Tgt Ion: 85 Resp: 73646

Ion Ratio Lower Upper

85 100

87 32.2 15.2 45.6





#3

Chloromethane

Concen: 45.829 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

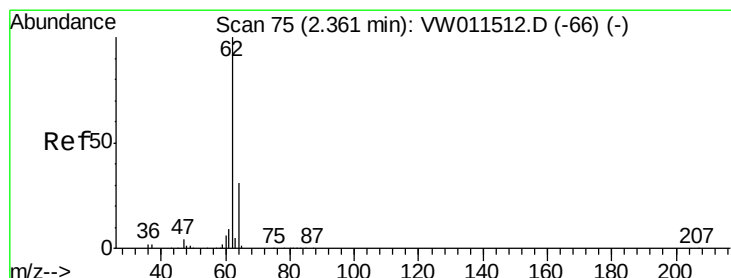
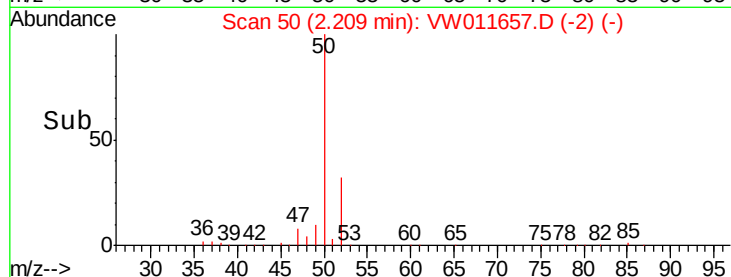
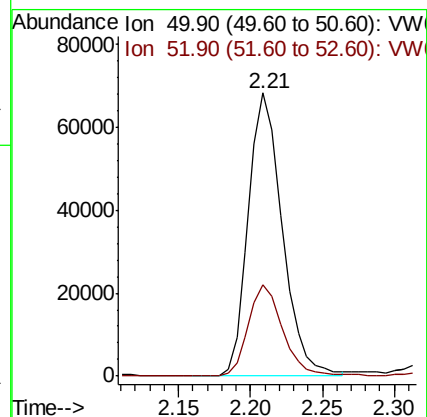
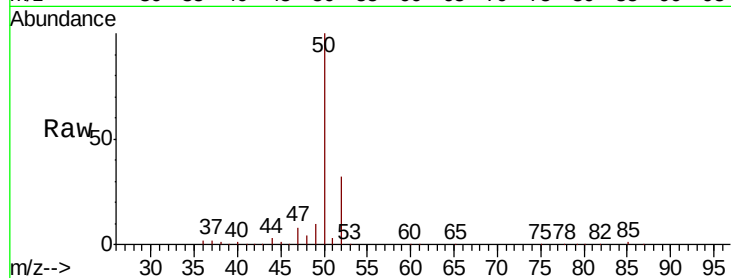
VSTDCCC050

Tgt Ion: 50 Resp: 111273

Ion Ratio Lower Upper

50 100

52 32.4 25.4 38.2



#4

Vinyl Chloride

Concen: 51.980 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW011657.D

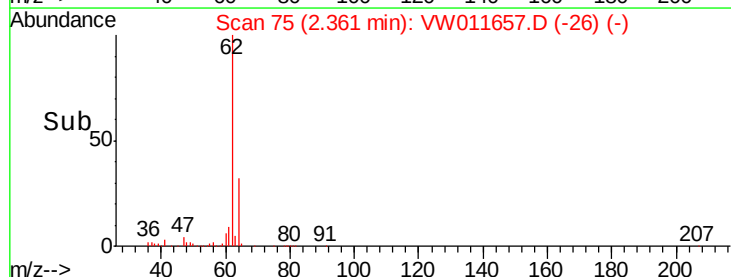
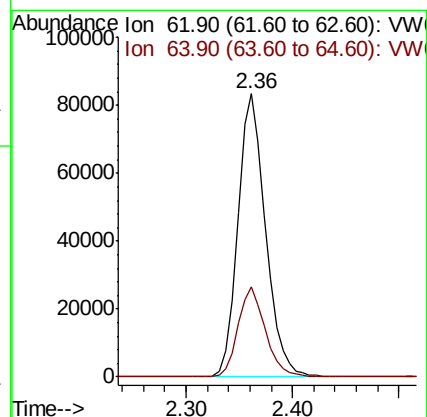
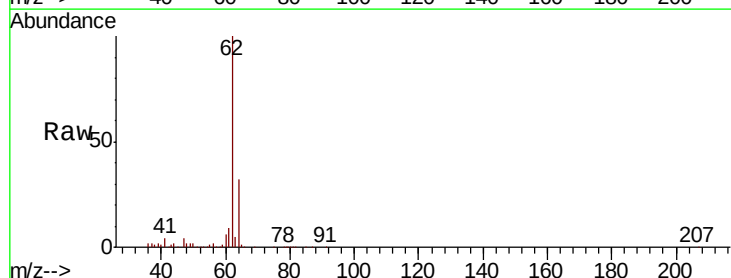
Acq: 03 Aug 2019 11:09

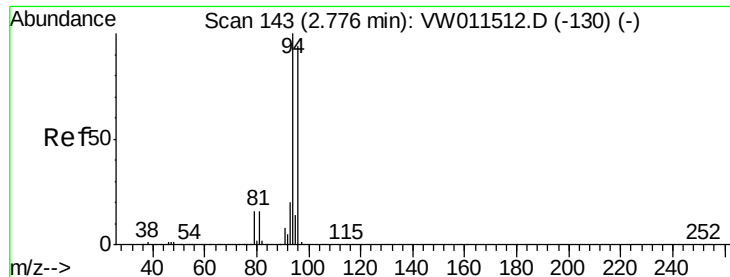
Tgt Ion: 62 Resp: 151947

Ion Ratio Lower Upper

62 100

64 31.7 25.0 37.4





#5

Bromomethane

Concen: 46.878 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

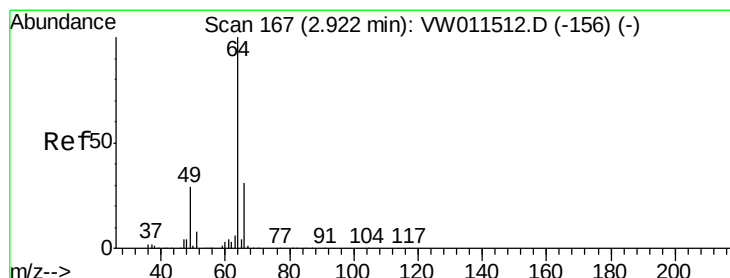
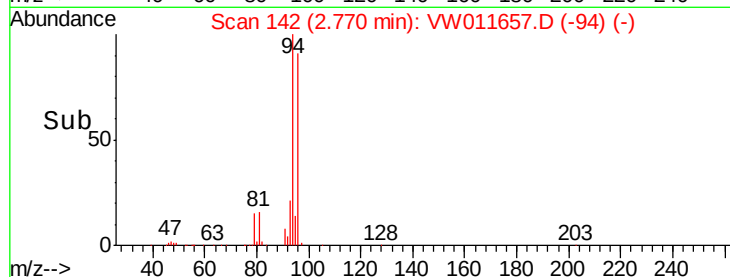
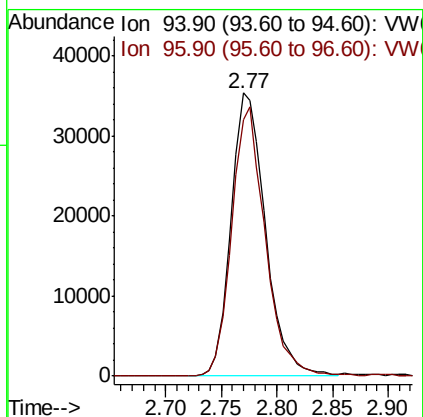
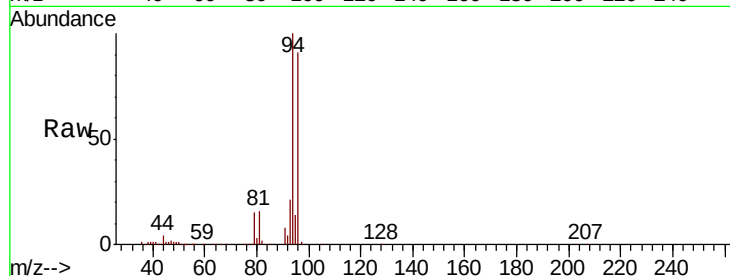
VSTDCCC050

Tgt Ion: 94 Resp: 75849

Ion Ratio Lower Upper

94 100

96 90.7 75.0 112.6



#6

Chloroethane

Concen: 51.044 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW011657.D

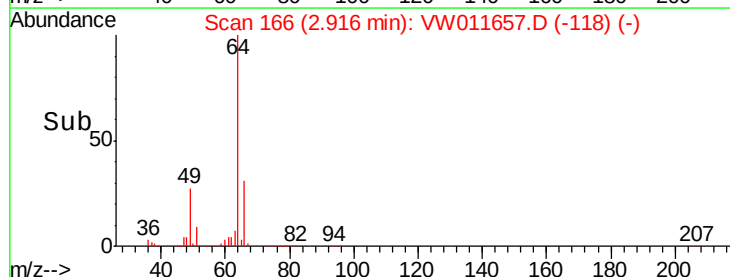
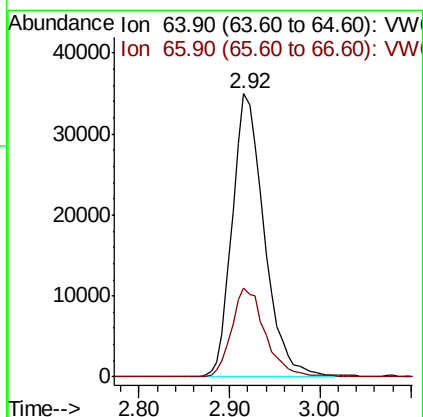
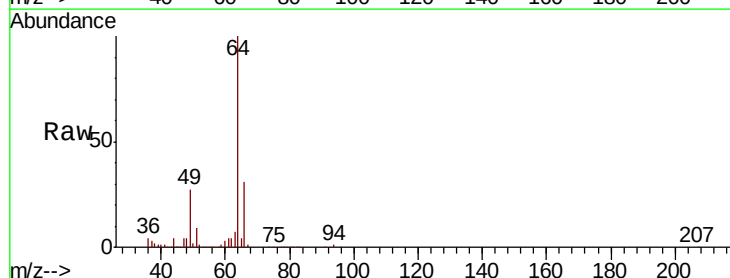
Acq: 03 Aug 2019 11:09

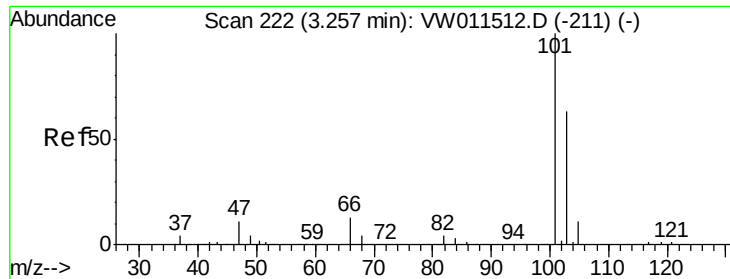
Tgt Ion: 64 Resp: 85232

Ion Ratio Lower Upper

64 100

66 31.2 24.6 36.8



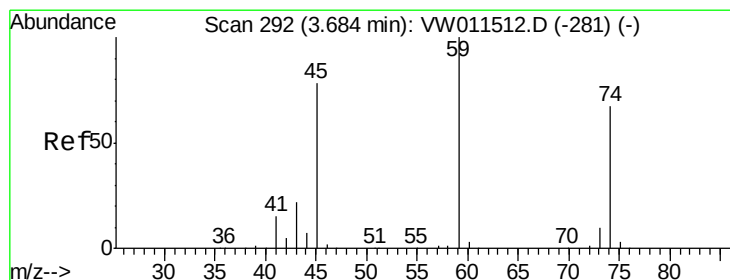
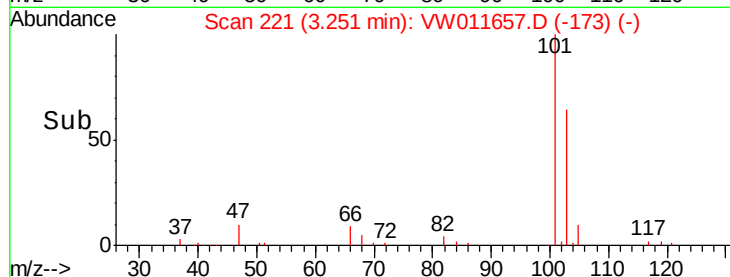
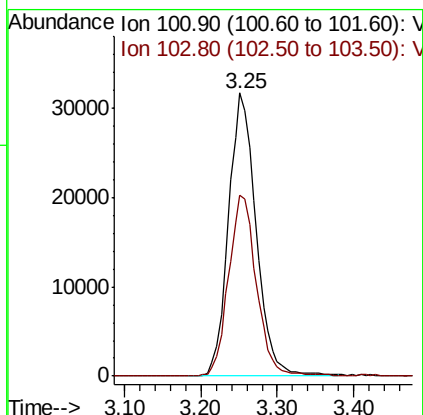
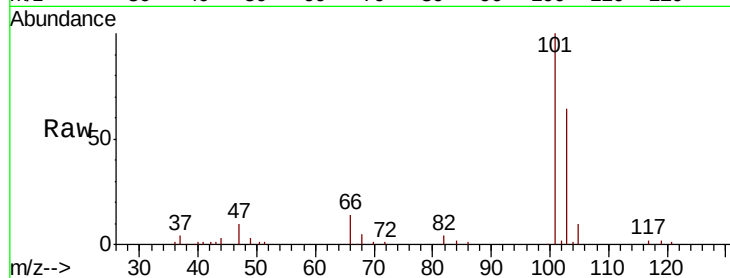


#7

Trichlorofluoromethane  
Concen: 60.495 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

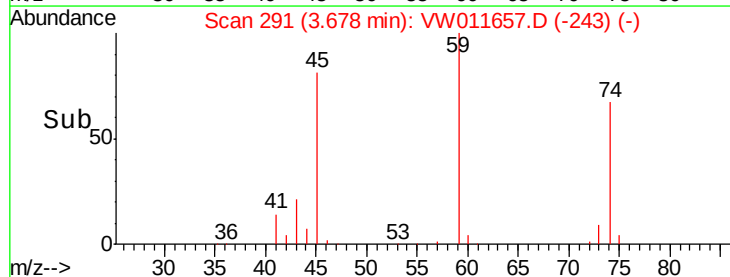
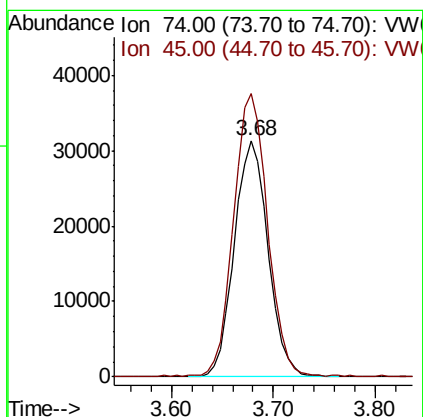
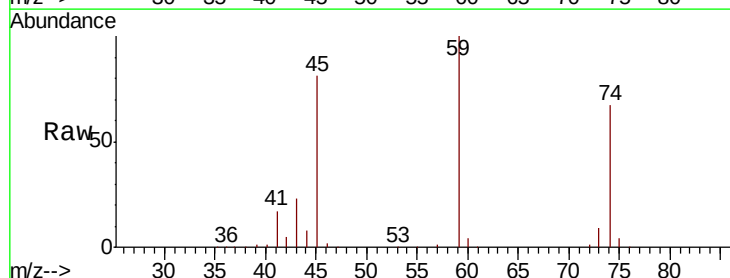
Tgt Ion: 101 Resp: 79031  
Ion Ratio Lower Upper  
101 100  
103 64.1 50.2 75.4



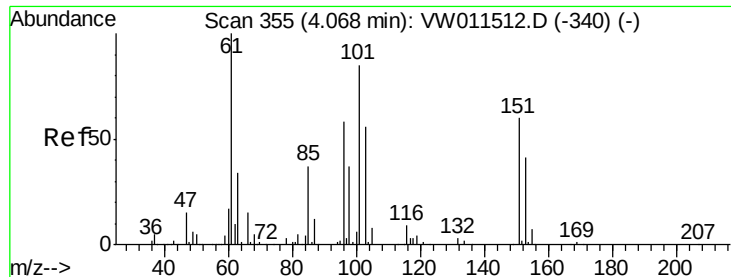
#8

Diethyl Ether  
Concen: 48.512 ug/l  
RT: 3.68 min Scan# 291  
Delta R.T. -0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 74 Resp: 71857  
Ion Ratio Lower Upper  
74 100  
45 119.7 59.6 178.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.812 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

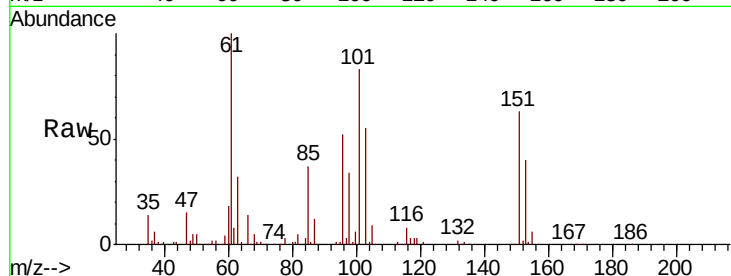
Tgt Ion:101 Resp: 135837

Ion Ratio Lower Upper

101 100

85 44.8 36.6 54.8

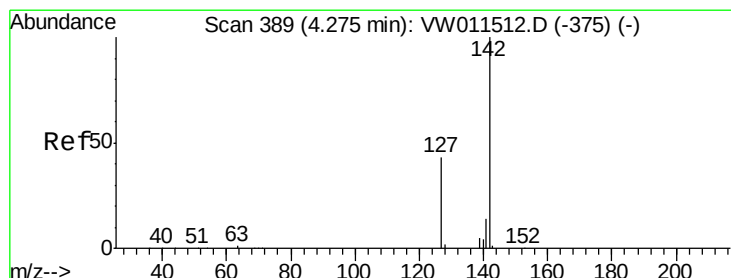
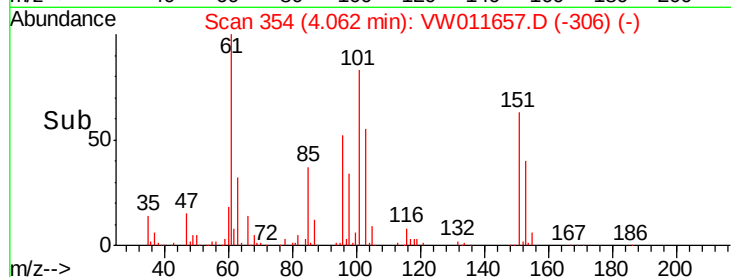
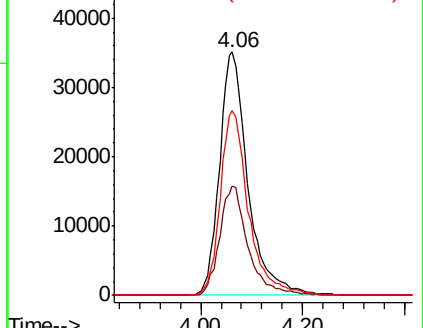
151 75.3 60.2 90.2



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: 51.561 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

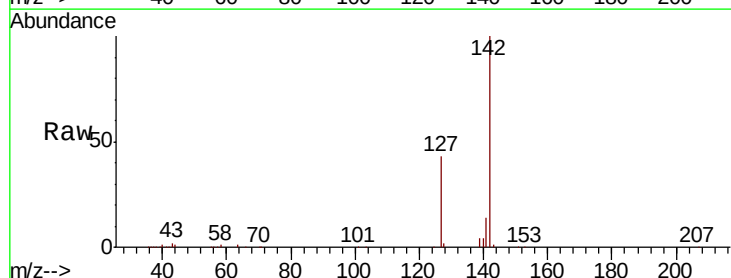
Tgt Ion:142 Resp: 180576

Ion Ratio Lower Upper

142 100

127 44.5 35.0 52.6

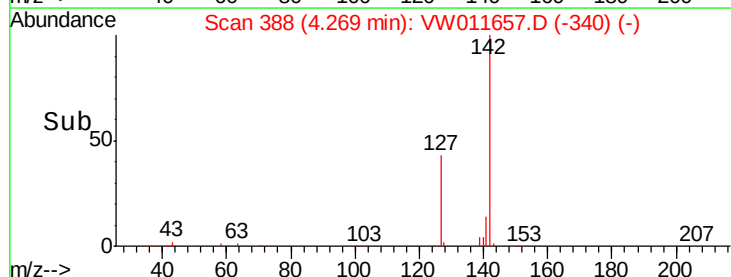
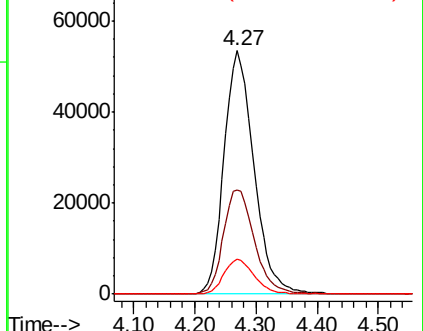
141 14.6 11.9 17.9

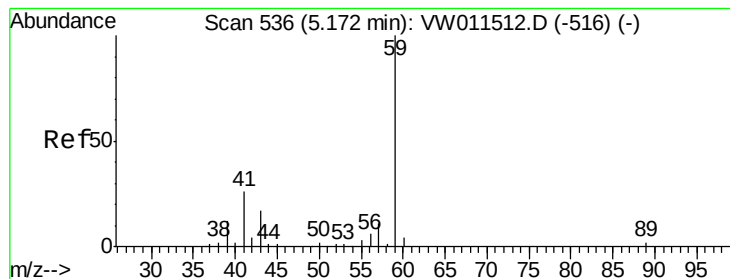


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



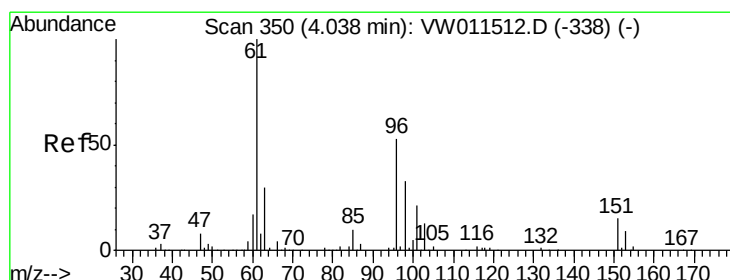
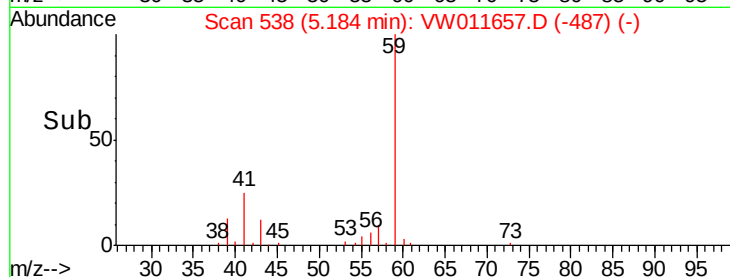
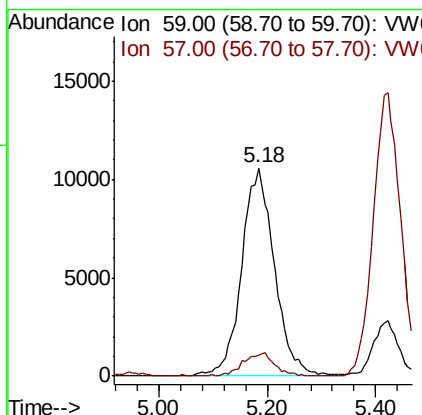
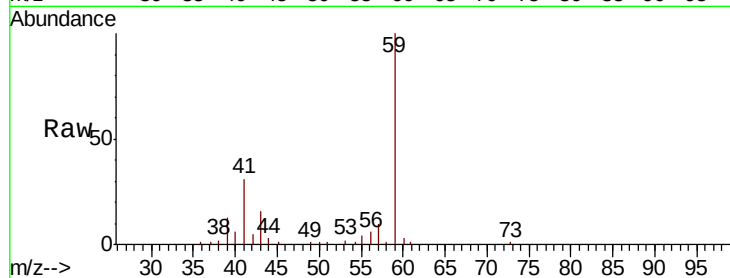


#11

Tert butyl alcohol  
 Concen: 205.776 ug/l  
 RT: 5.18 min Scan# 538  
 Delta R.T. 0.01 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

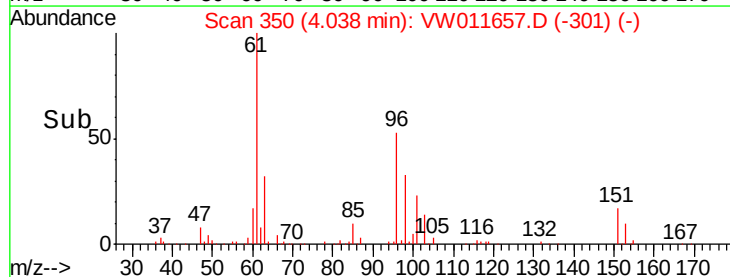
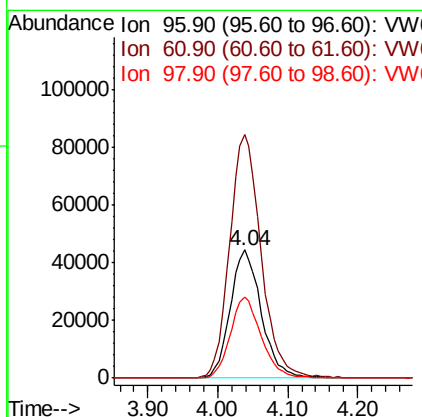
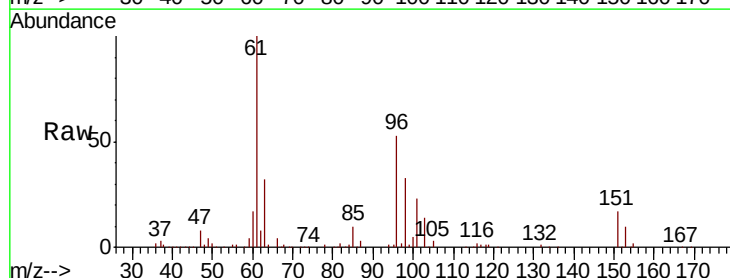
Tgt Ion: 59 Resp: 44484  
 Ion Ratio Lower Upper  
 59 100  
 57 10.5 8.5 12.7

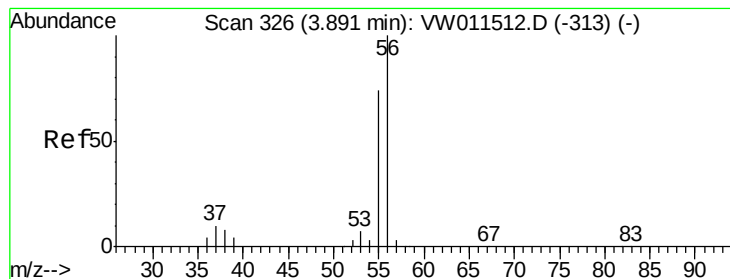


#12

1,1-Dichloroethene  
 Concen: 52.414 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 96 Resp: 137148  
 Ion Ratio Lower Upper  
 96 100  
 61 190.0 149.9 224.9  
 98 63.3 49.1 73.7





#13

Acrolein

Concen: 337.586 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

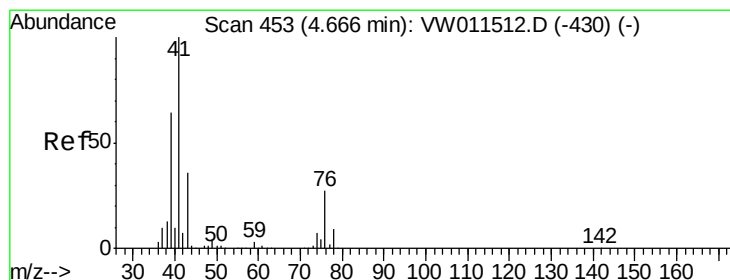
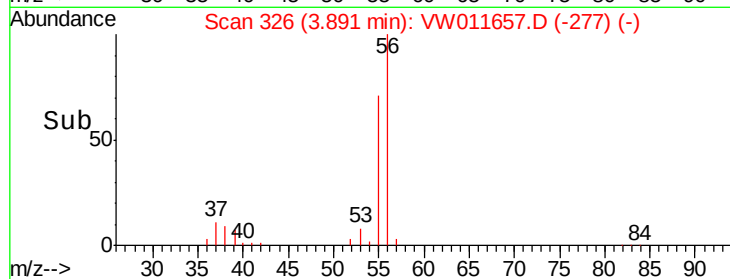
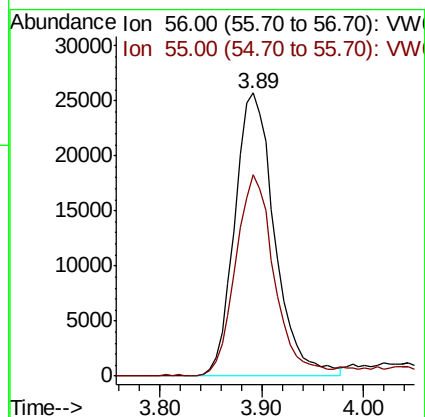
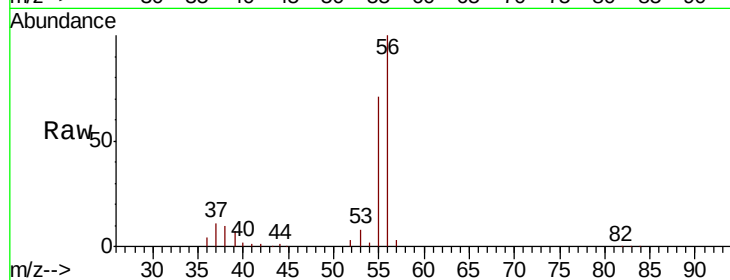
VSTDCCC050

Tgt Ion: 56 Resp: 69883

Ion Ratio Lower Upper

56 100

55 68.7 56.0 84.0



#14

Allyl chloride

Concen: 53.176 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

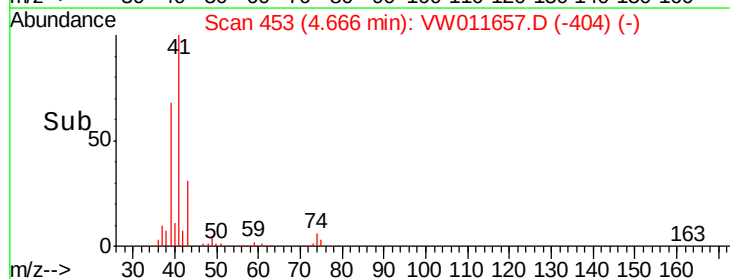
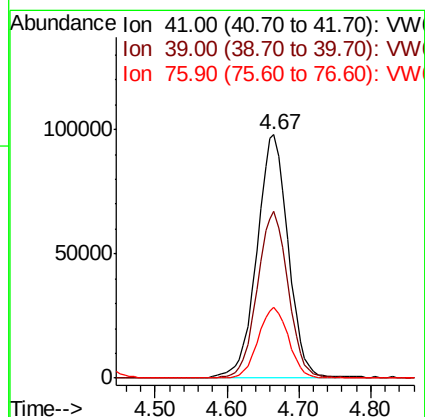
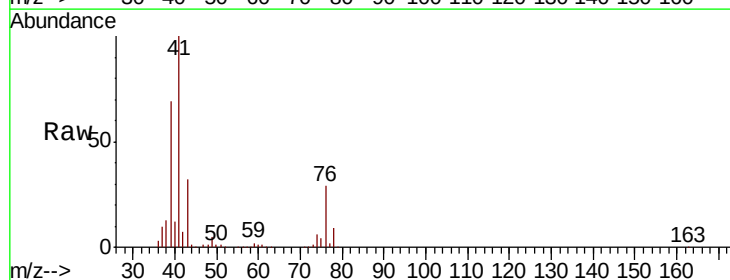
Tgt Ion: 41 Resp: 295938

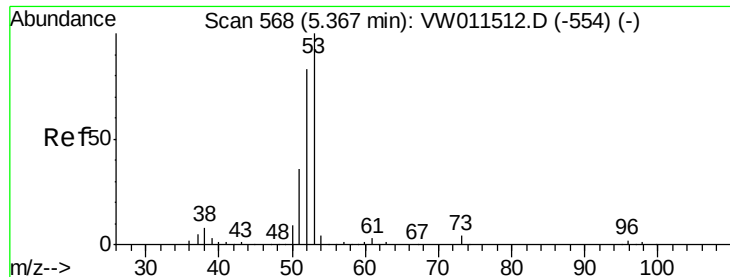
Ion Ratio Lower Upper

41 100

39 67.3 52.6 78.8

76 28.2 22.0 33.0





#15

Acrylonitrile

Concen: 238.434 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

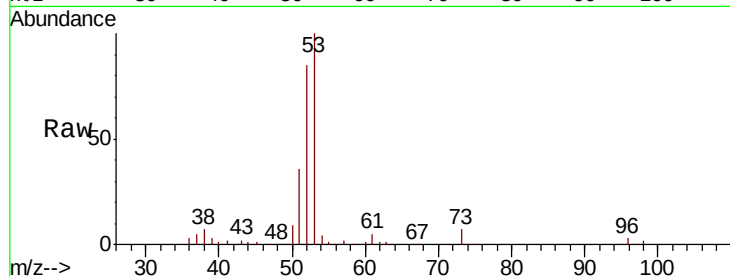
Tgt Ion: 53 Resp: 176300

Ion Ratio Lower Upper

53 100

52 83.3 67.2 100.8

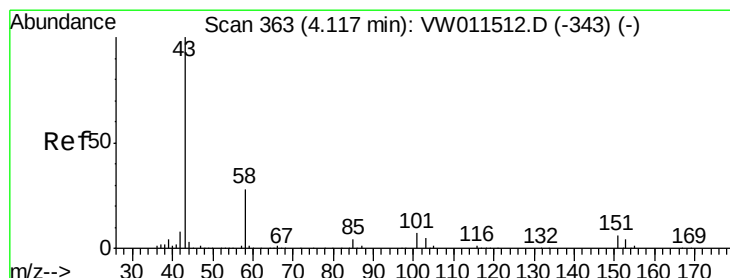
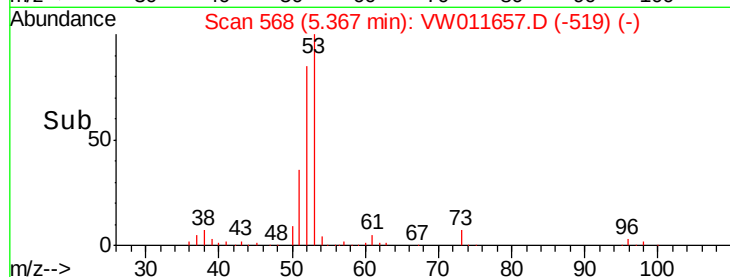
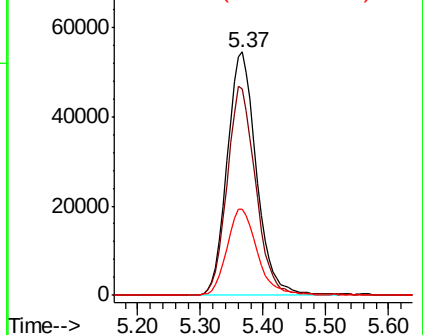
51 36.8 30.0 45.0



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 259.357 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011657.D

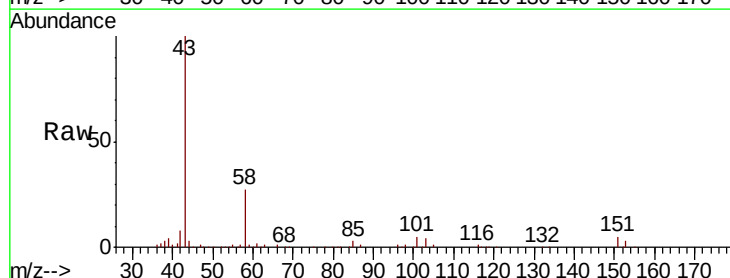
Acq: 03 Aug 2019 11:09

Tgt Ion: 43 Resp: 238015

Ion Ratio Lower Upper

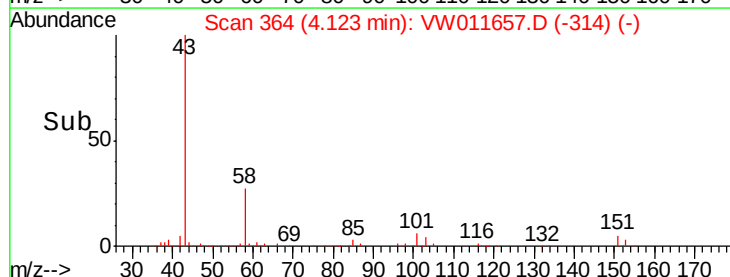
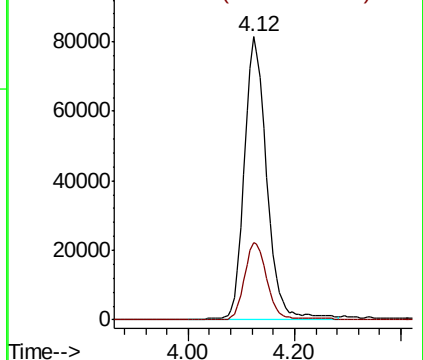
43 100

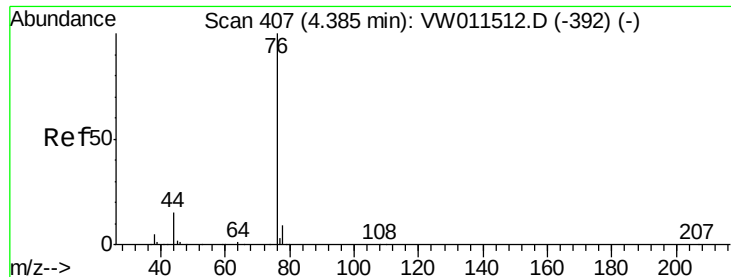
58 27.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 52.356 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

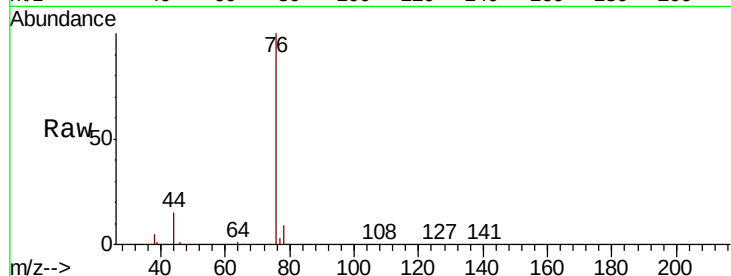
VSTDCCC050

Tgt Ion: 76 Resp: 428779

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

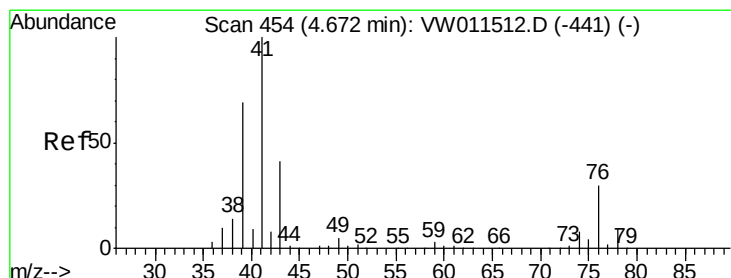
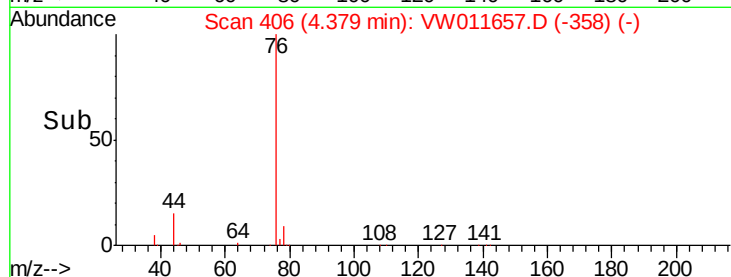
150000

100000

50000

0

Time--> 4.20 4.30 4.40 4.50



#18

Methyl Acetate

Concen: 44.956 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW011657.D

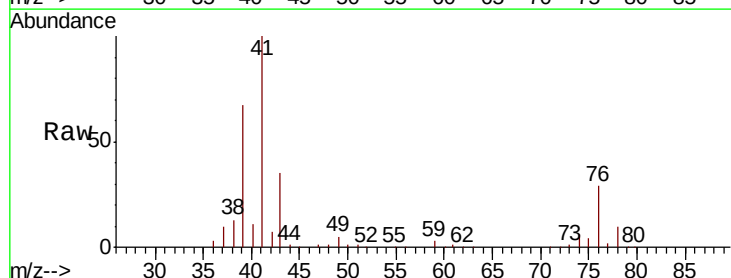
Acq: 03 Aug 2019 11:09

Tgt Ion: 43 Resp: 92683

Ion Ratio Lower Upper

43 100

74 19.2 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

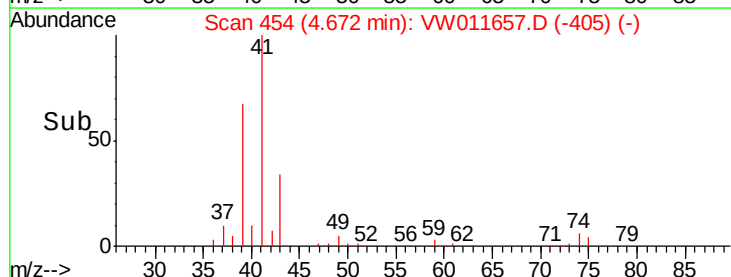
30000

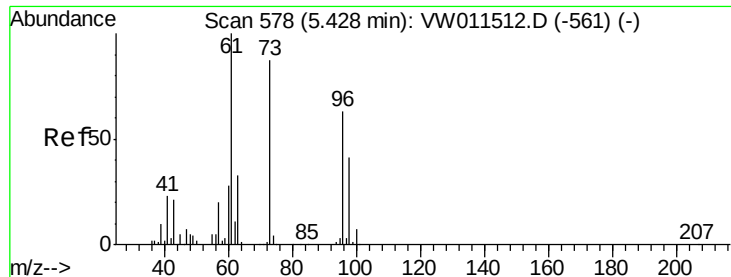
20000

10000

0

Time--> 4.50 4.60 4.70 4.80

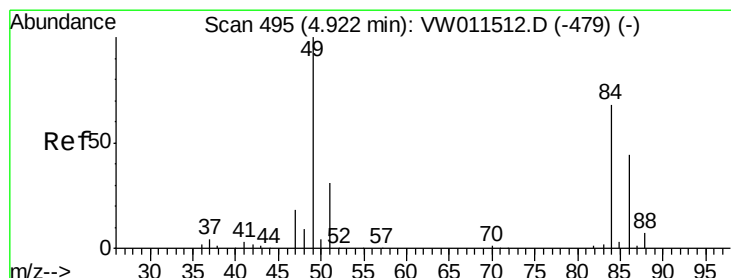
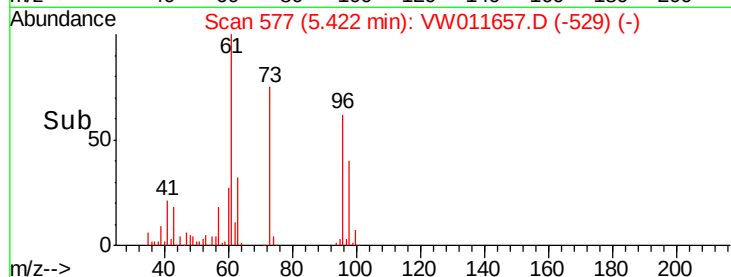
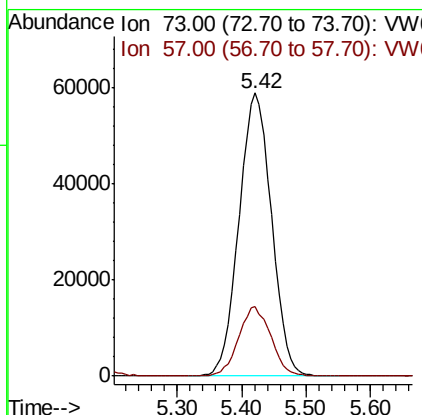
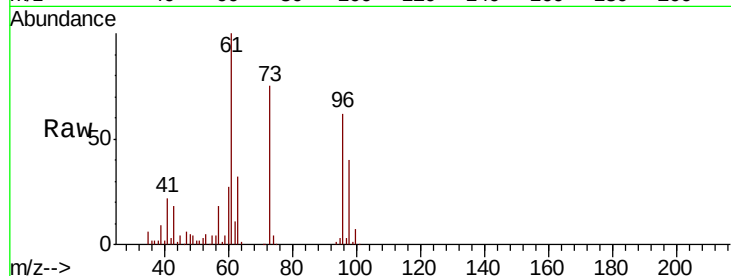




#19  
Methyl tert-butyl Ether  
Concen: 49.397 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

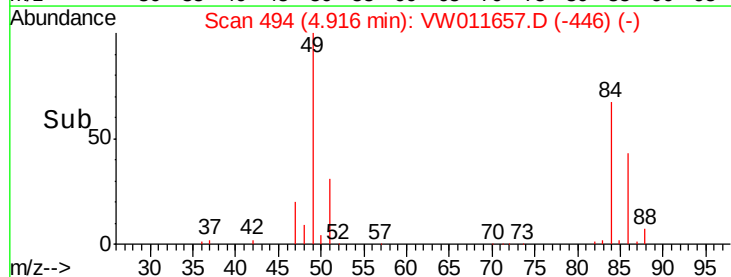
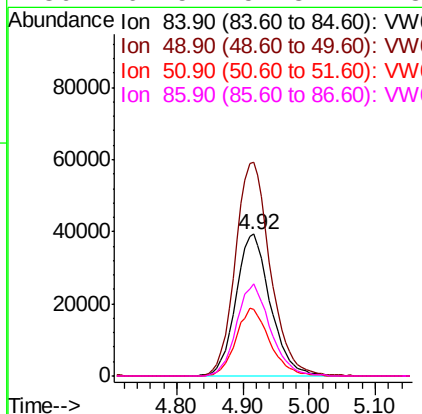
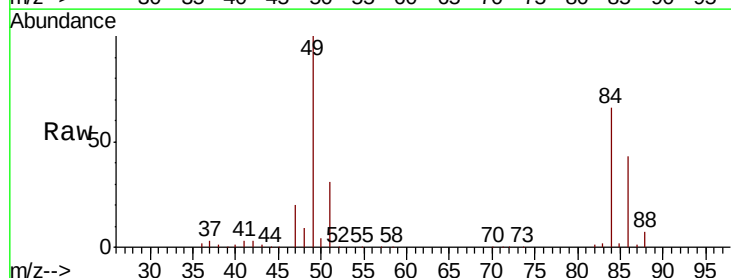
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

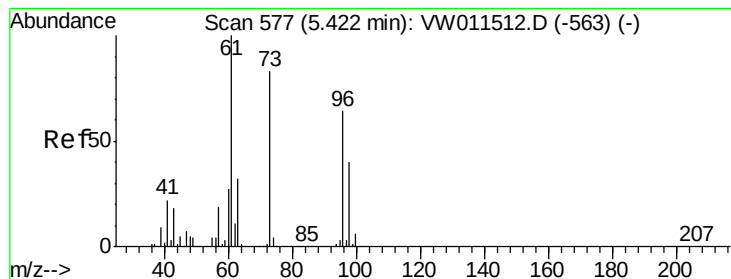
Tgt Ion: 73 Resp: 205111  
Ion Ratio Lower Upper  
73 100  
57 24.4 18.4 27.6



#20  
Methylene Chloride  
Concen: 45.167 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 84 Resp: 142955  
Ion Ratio Lower Upper  
84 100  
49 150.5 117.8 176.6  
51 46.6 37.0 55.4  
86 64.5 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 51.997 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

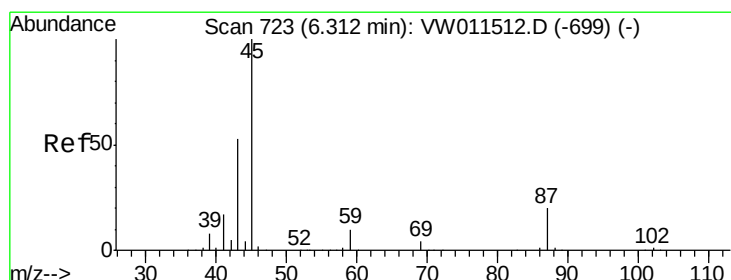
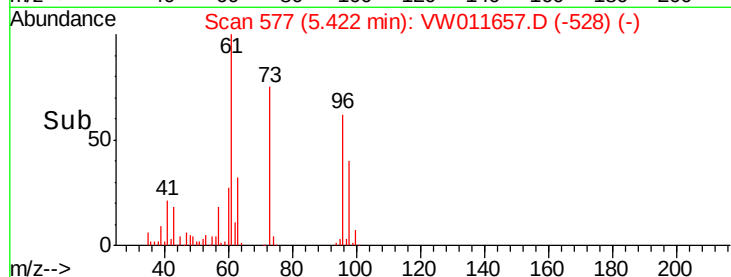
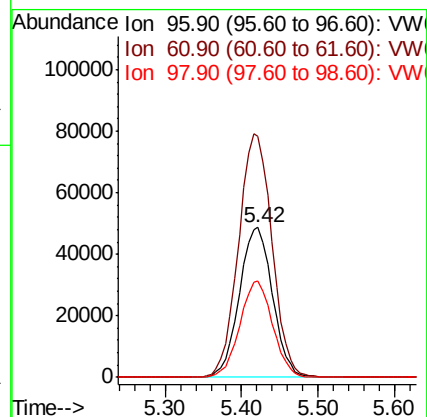
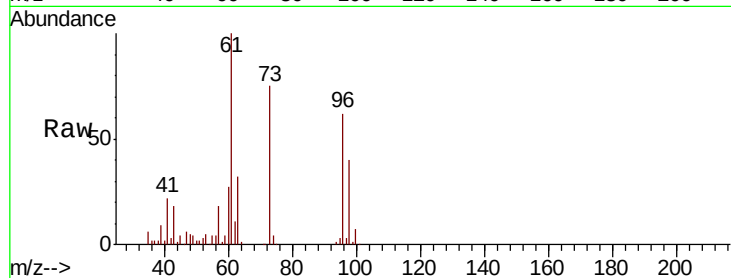
Tgt Ion: 96 Resp: 146683

Ion Ratio Lower Upper

96 100

61 161.2 125.7 188.5

98 64.3 50.3 75.5



#22

Diisopropyl ether

Concen: 50.251 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Tgt Ion: 45 Resp: 527264

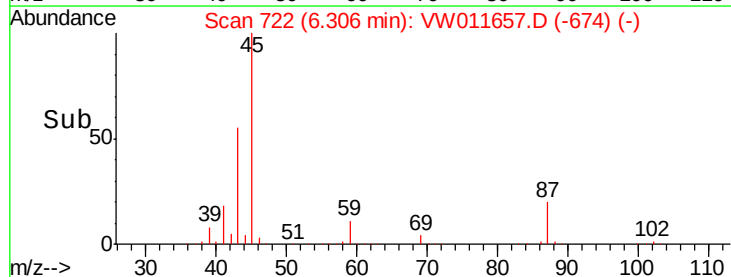
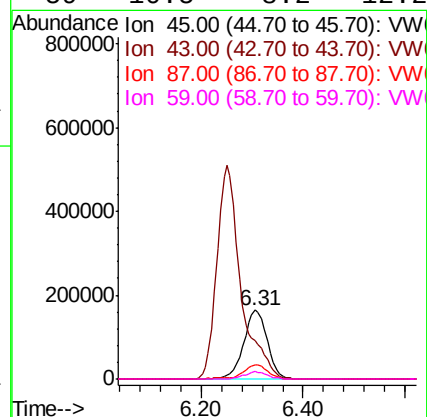
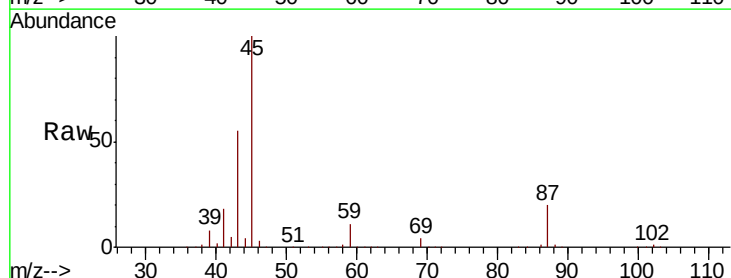
Ion Ratio Lower Upper

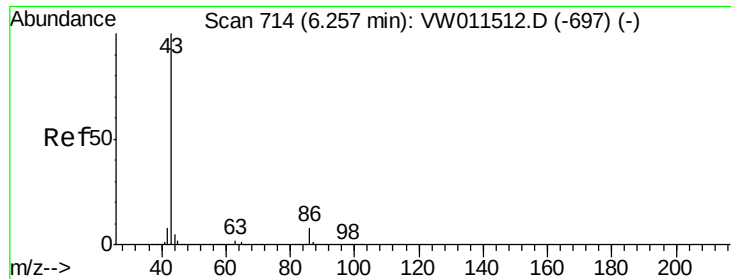
45 100

43 54.7 42.6 63.8

87 20.1 16.4 24.6

59 10.5 8.2 12.2





#23

Vinyl Acetate

Concen: 252.468 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

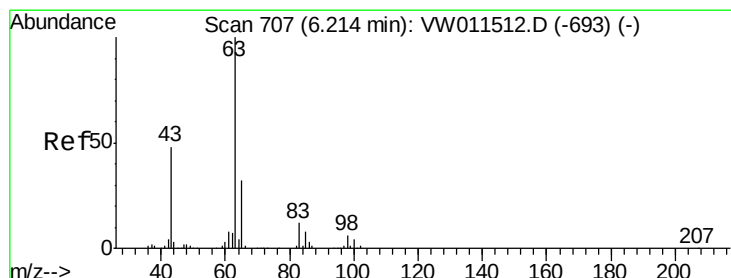
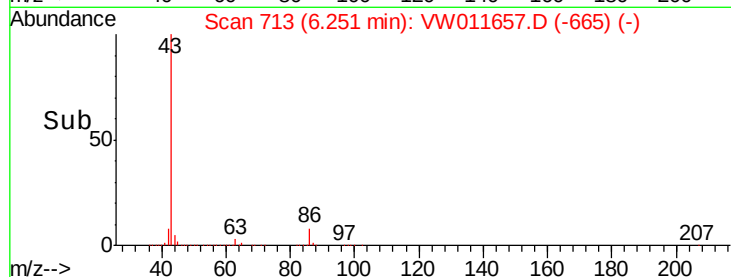
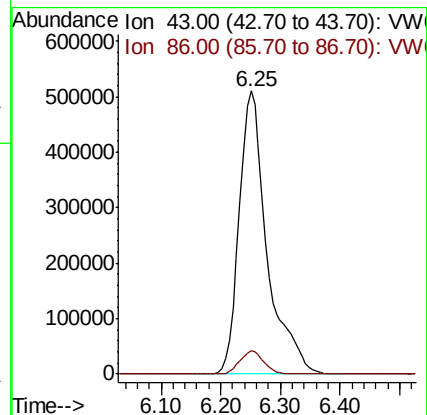
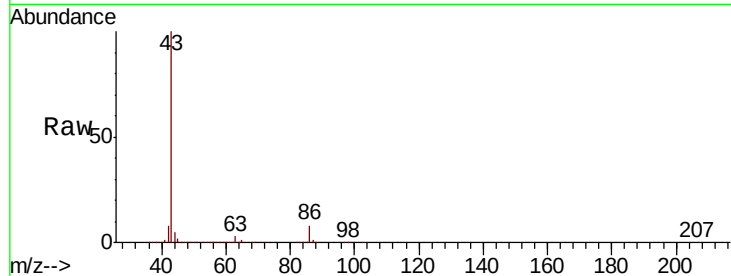
VSTDCCC050

Tgt Ion: 43 Resp: 1664549

Ion Ratio Lower Upper

43 100

86 8.1 6.5 9.7



#24

1,1-Dichloroethane

Concen: 51.629 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

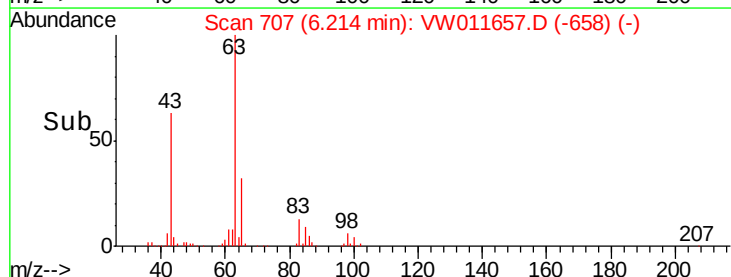
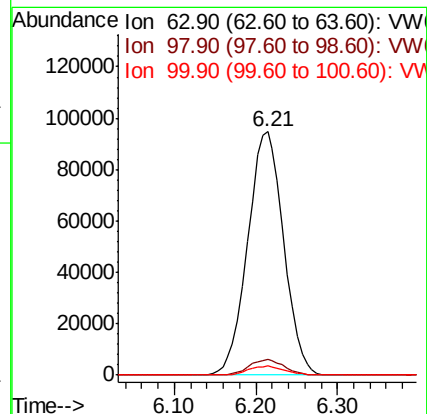
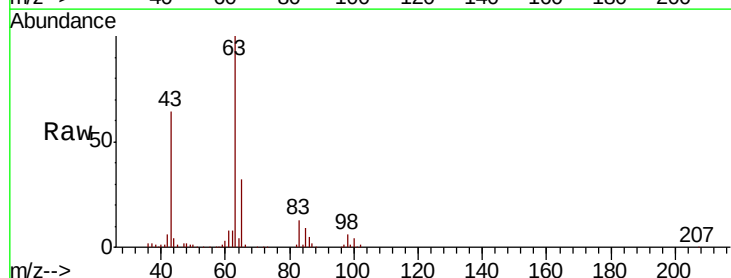
Tgt Ion: 63 Resp: 290132

Ion Ratio Lower Upper

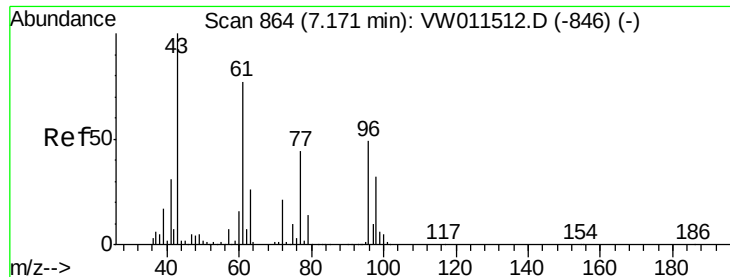
63 100

98 6.2 2.9 8.8

100 3.6 2.1 6.3







#25

2-Butanone

Concen: 238.051 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

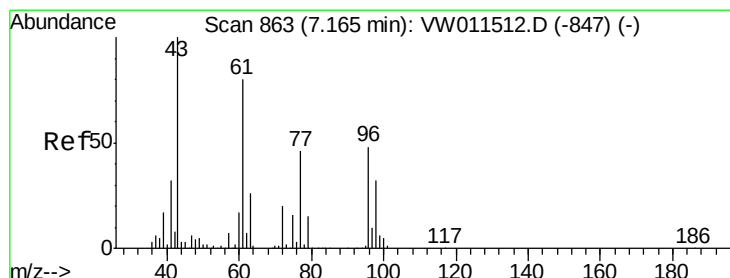
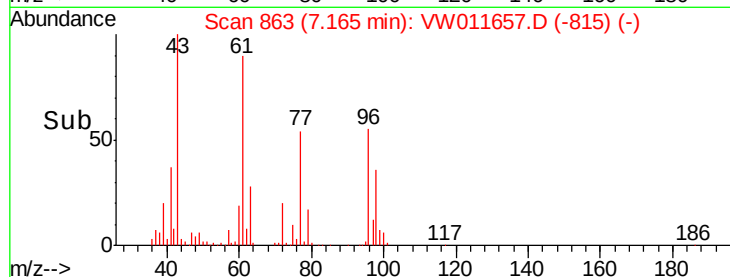
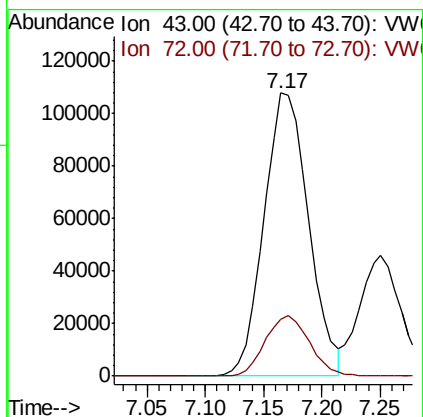
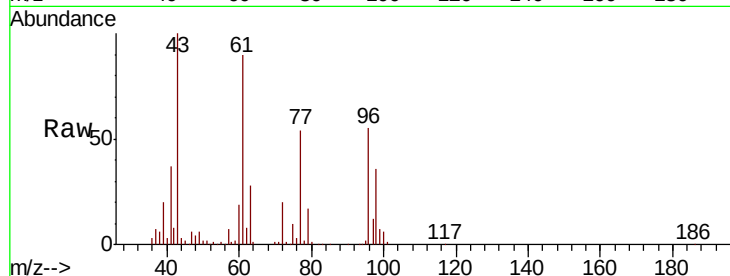
VSTDCCC050

Tgt Ion: 43 Resp: 285865

Ion Ratio Lower Upper

43 100

72 20.0 16.6 24.8



#26

2,2-Dichloropropane

Concen: 48.933 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011657.D

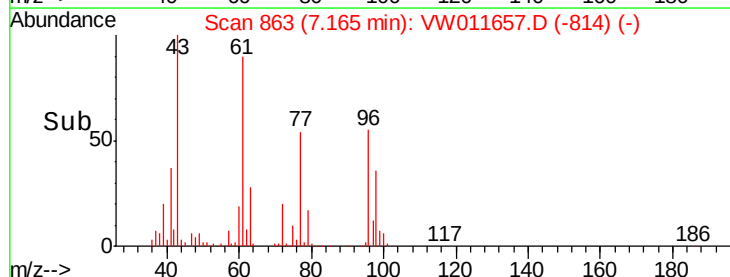
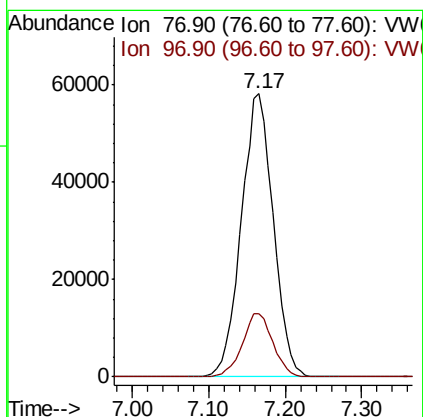
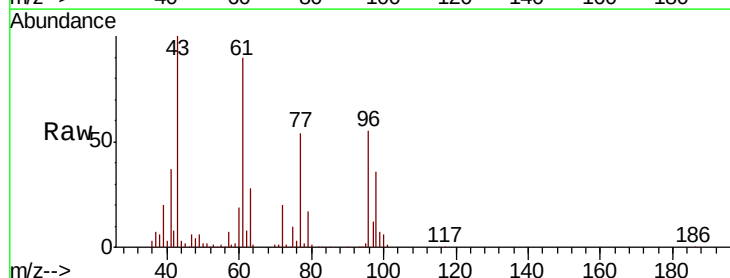
Acq: 03 Aug 2019 11:09

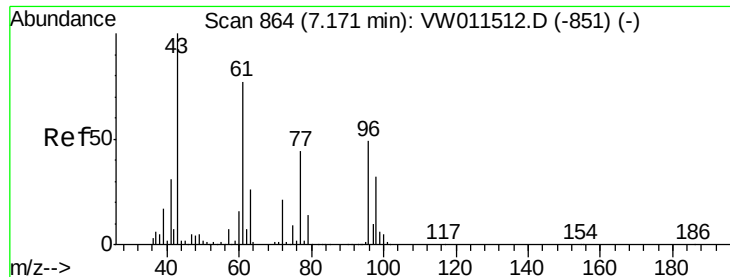
Tgt Ion: 77 Resp: 169109

Ion Ratio Lower Upper

77 100

97 21.3 10.8 32.4



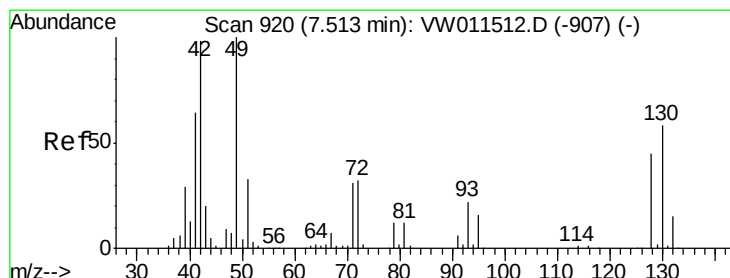
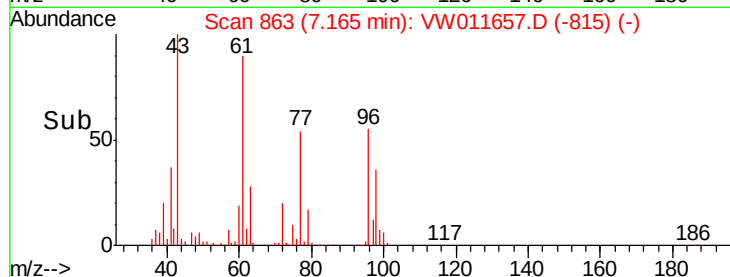
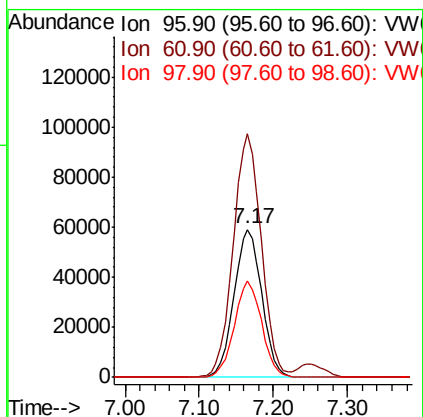
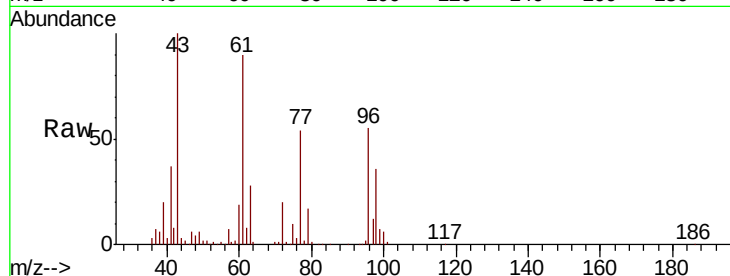


#27

cis-1,2-Dichloroethene  
 Concen: 49.869 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

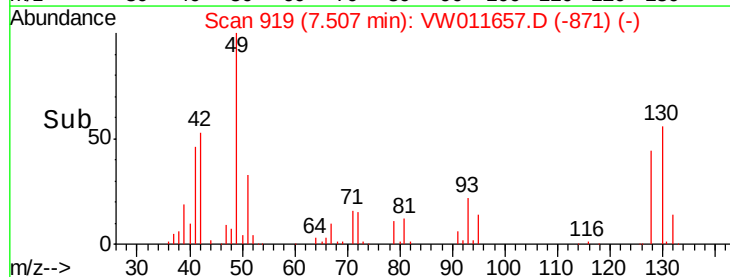
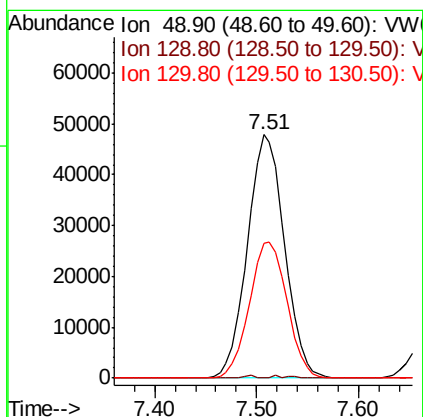
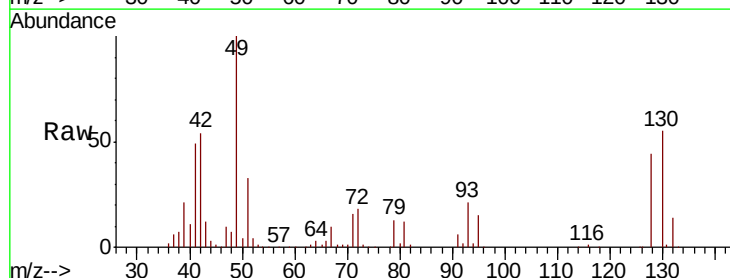
Tgt Ion: 96 Resp: 154832  
 Ion Ratio Lower Upper  
 96 100  
 61 166.3 0.0 328.4  
 98 64.0 0.0 128.8

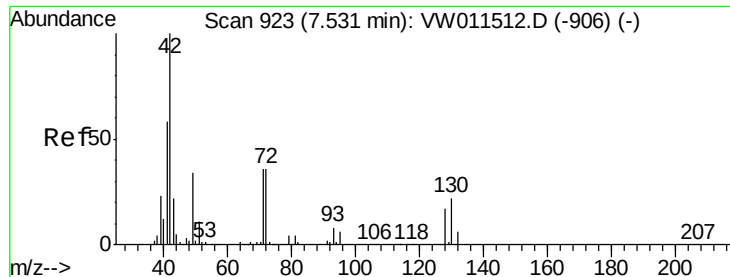


#28

Bromochloromethane  
 Concen: 48.571 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.01 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 49 Resp: 121151  
 Ion Ratio Lower Upper  
 49 100  
 129 0.4 0.0 1.0  
 130 56.8 46.3 69.5

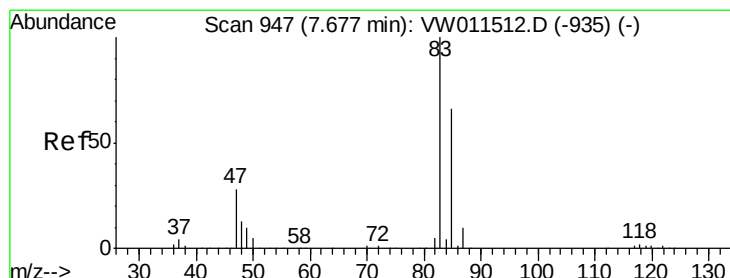
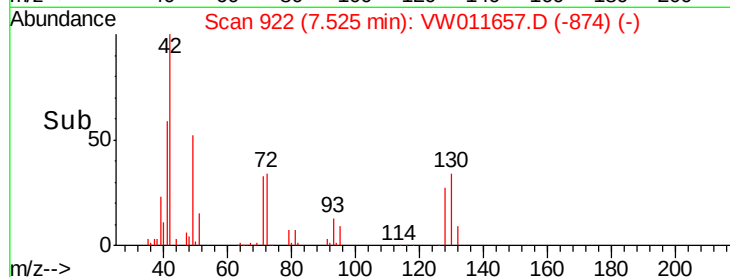
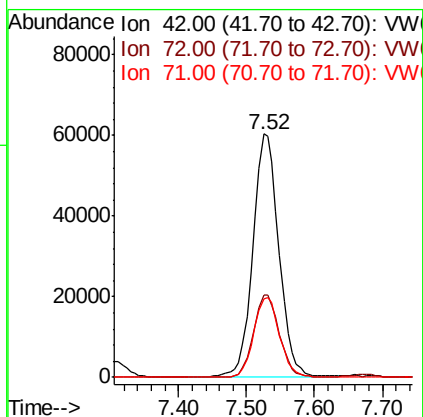
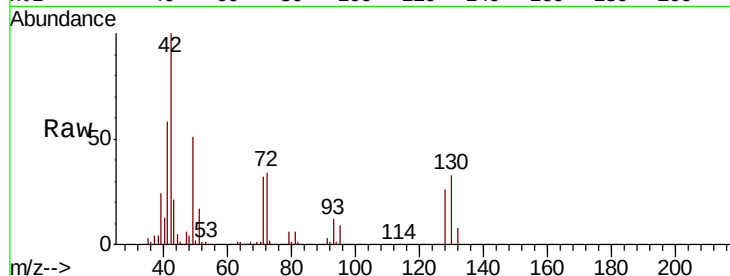




#29  
Tetrahydrofuran  
Concen: 234.474 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

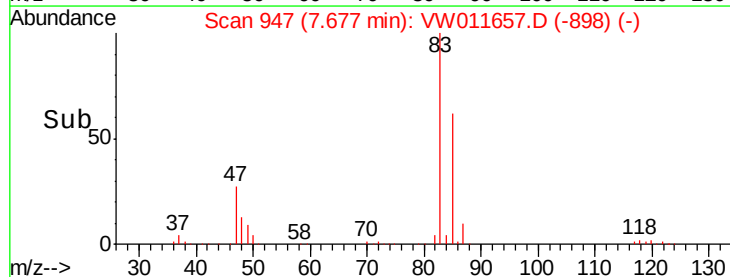
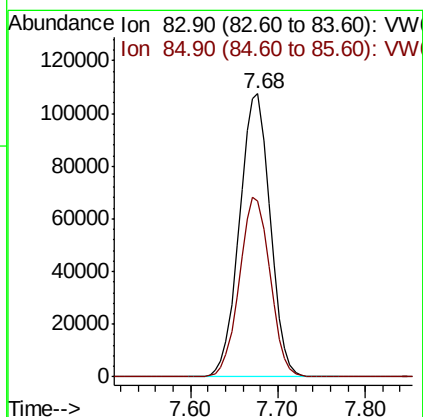
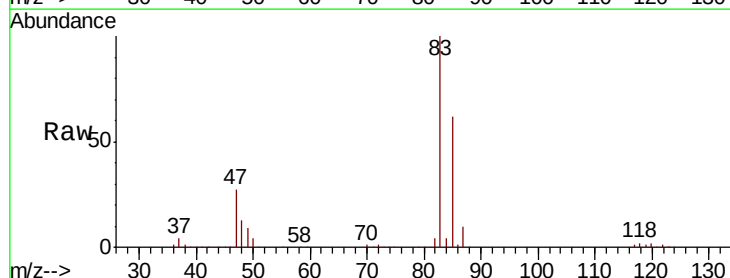
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

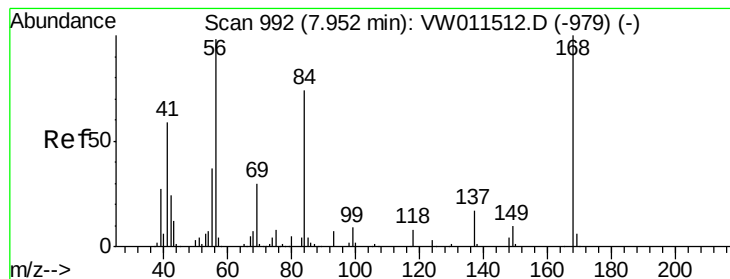
Tgt Ion: 42 Resp: 160947  
Ion Ratio Lower Upper  
42 100  
72 33.7 27.1 40.7  
71 32.6 26.2 39.4



#30  
Chloroform  
Concen: 50.521 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 83 Resp: 261922  
Ion Ratio Lower Upper  
83 100  
85 62.0 52.5 78.7





#31

Cyclohexane

Concen: 51.354 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

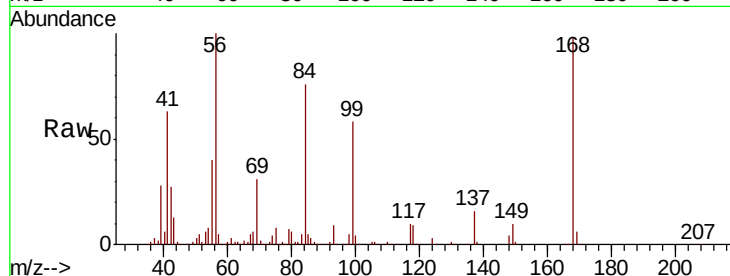
Tgt Ion: 56 Resp: 277015

Ion Ratio Lower Upper

56 100

69 31.5 24.3 36.5

84 75.3 60.4 90.6

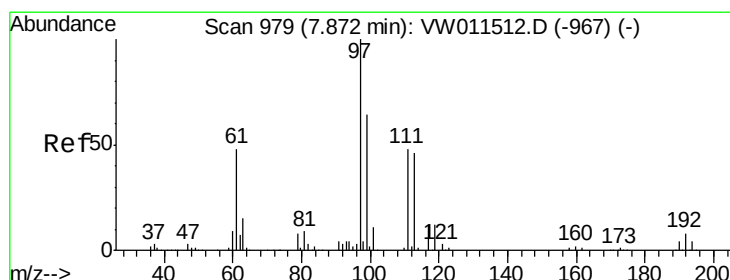
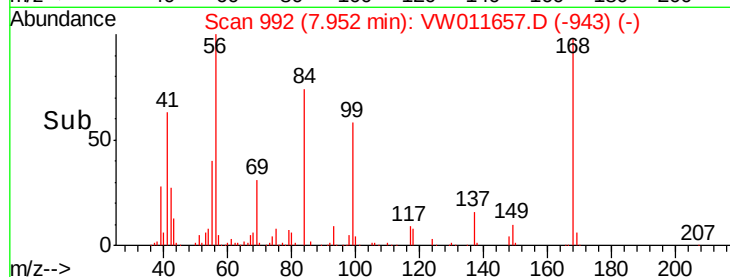
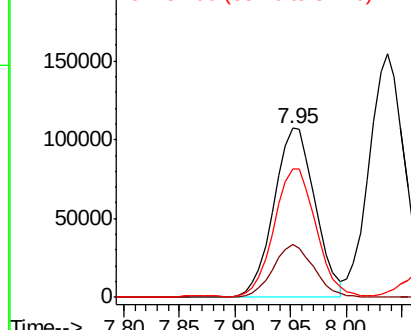


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 53.780 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

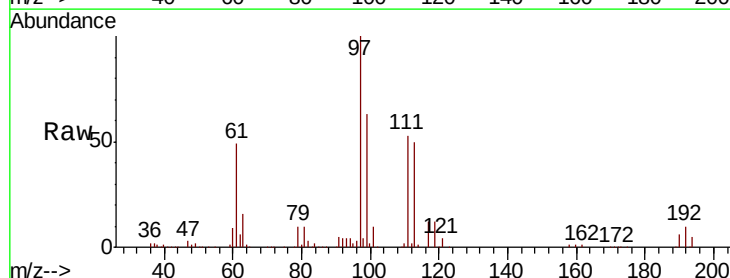
Tgt Ion: 97 Resp: 212338

Ion Ratio Lower Upper

97 100

99 64.2 51.0 76.6

61 49.4 39.8 59.6

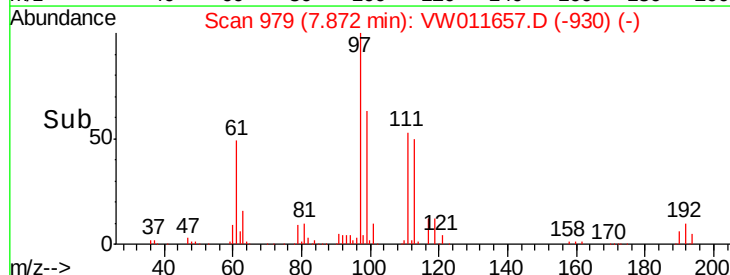
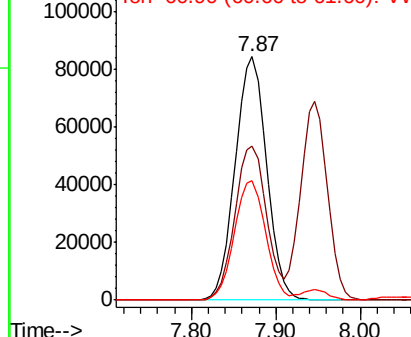


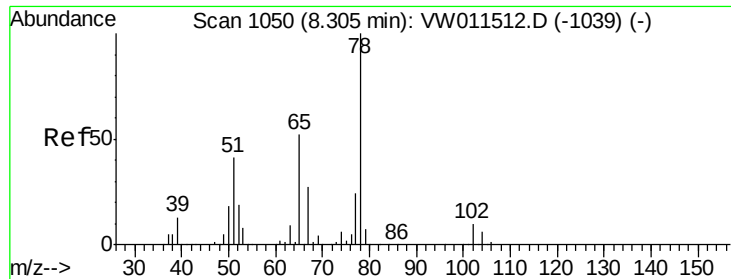
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 98.90 (98.60 to 99.60): VW

Ion 60.90 (60.60 to 61.60): VW

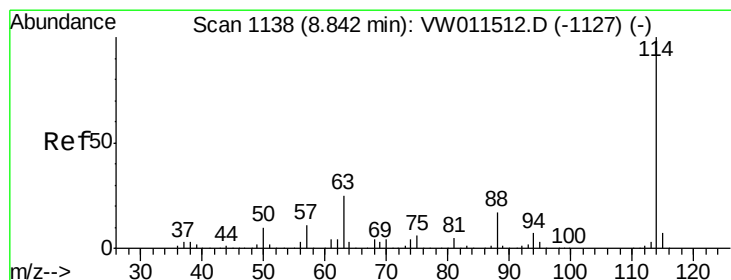
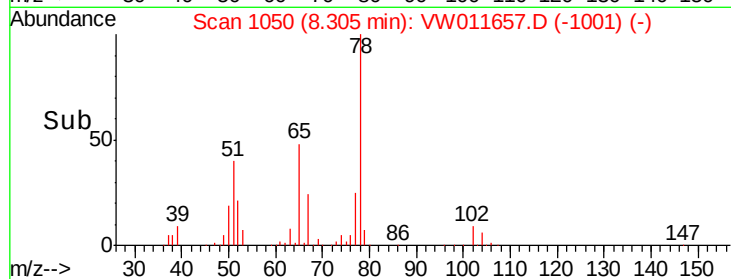
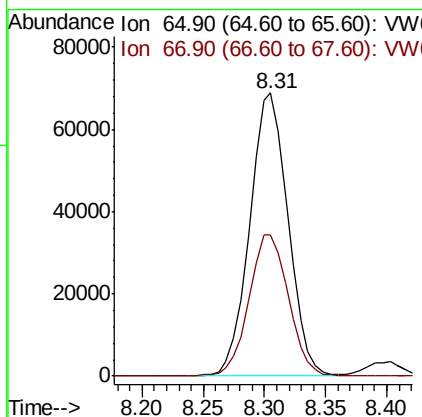
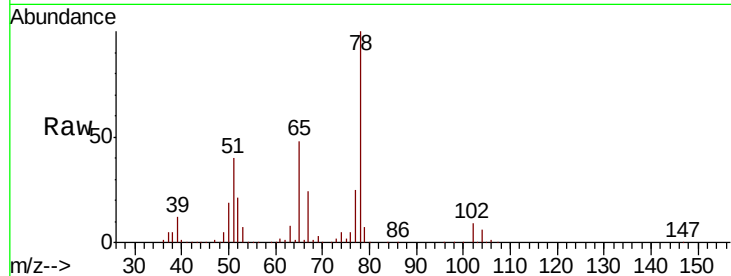




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.017 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

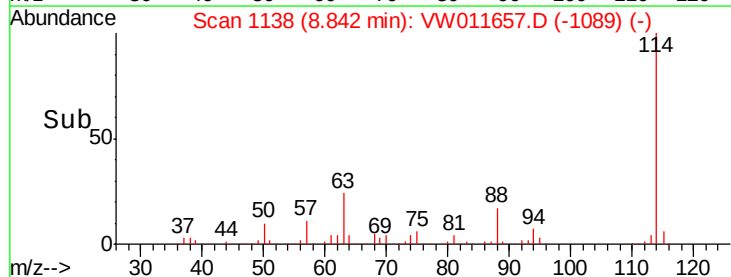
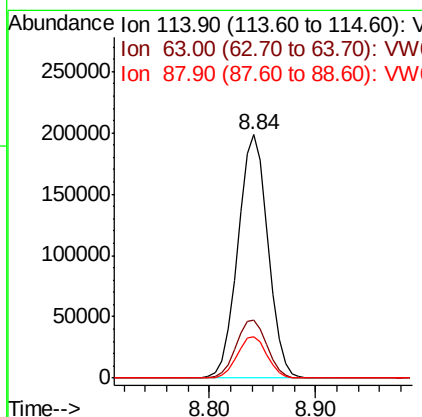
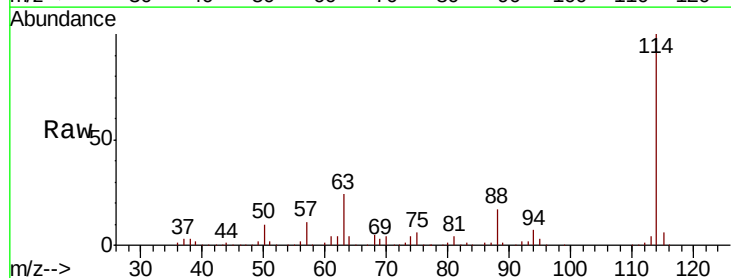
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

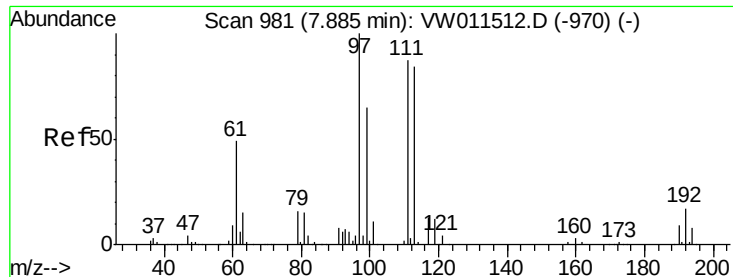
Tgt Ion: 65 Resp: 150068  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 114 Resp: 393310  
 Ion Ratio Lower Upper  
 114 100  
 63 24.0 0.0 49.2  
 88 16.9 0.0 33.8

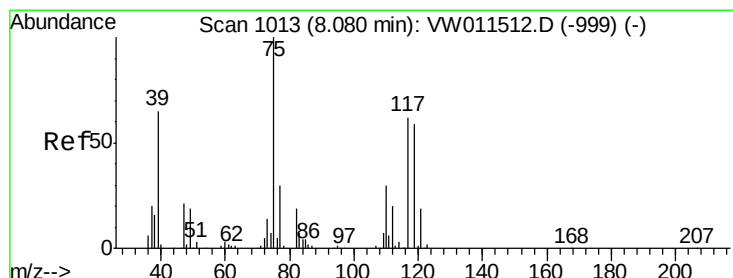
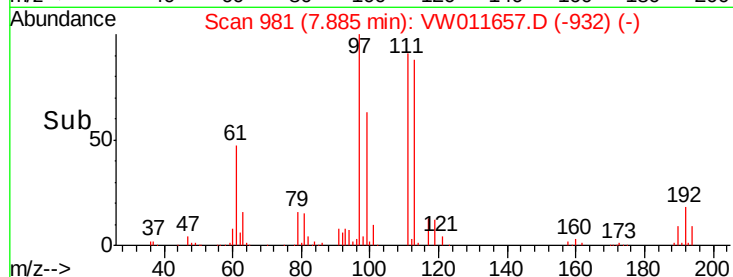
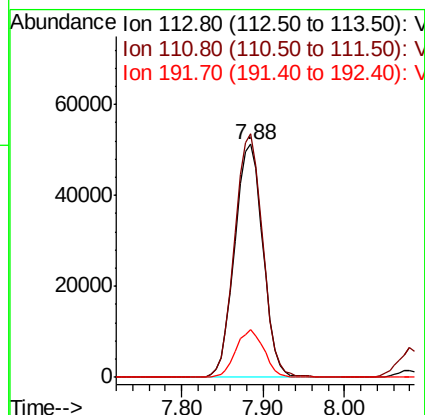
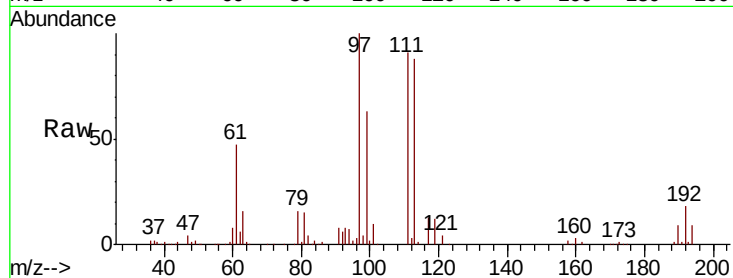




#35  
 Dibromofluoromethane  
 Concen: 55.457 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

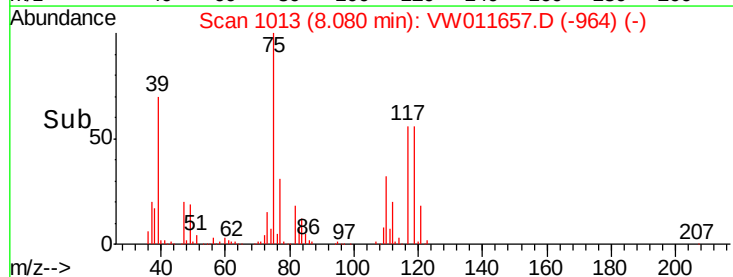
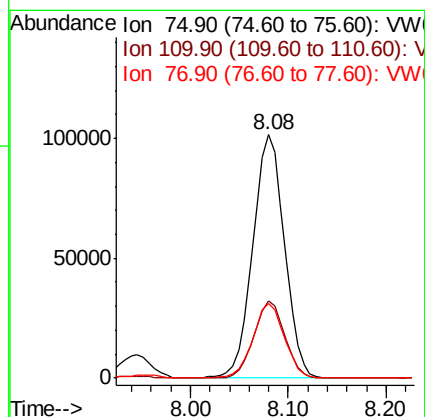
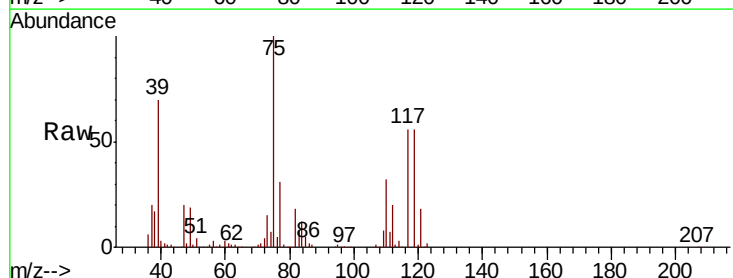
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

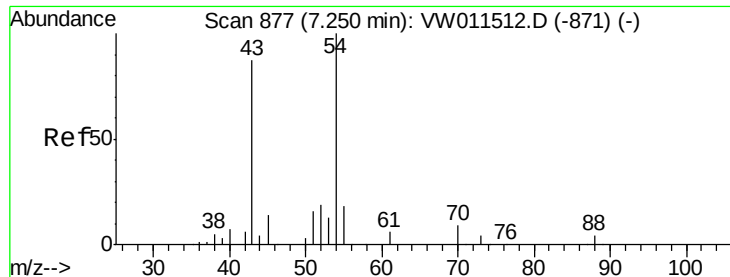
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 82.7  | 124.1 |
| 192     | 20.3  | 16.1  | 24.1  |



#36  
 1,1-Dichloropropene  
 Concen: 55.665 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 31.1  | 15.6  | 46.8  |
| 77      | 30.6  | 24.3  | 36.5  |

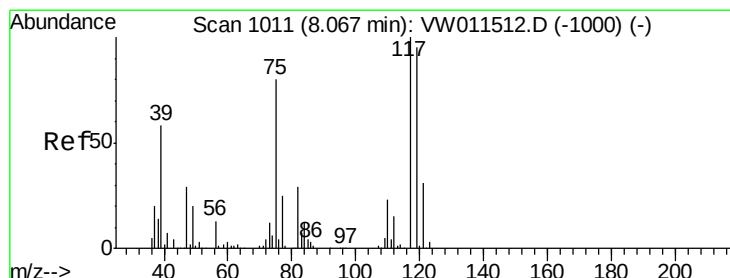
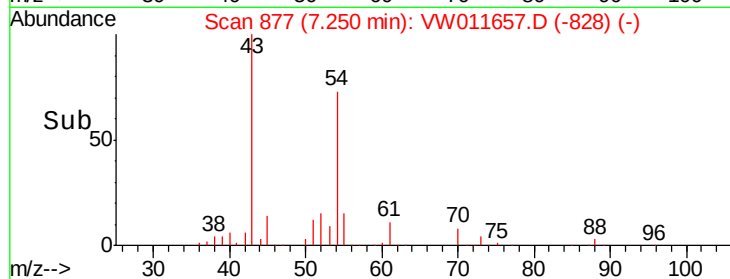
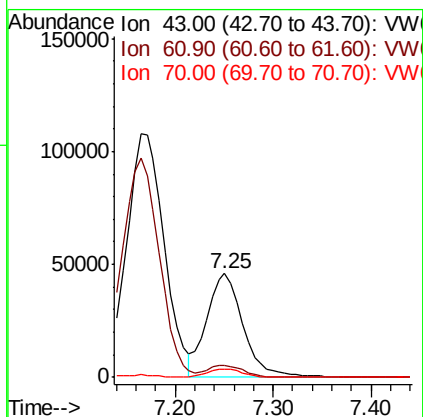
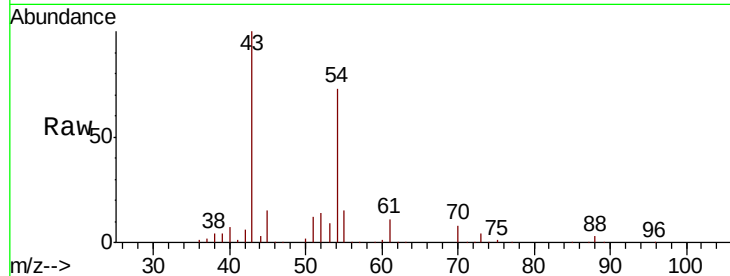




#37  
Ethyl Acetate  
Concen: 49.466 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

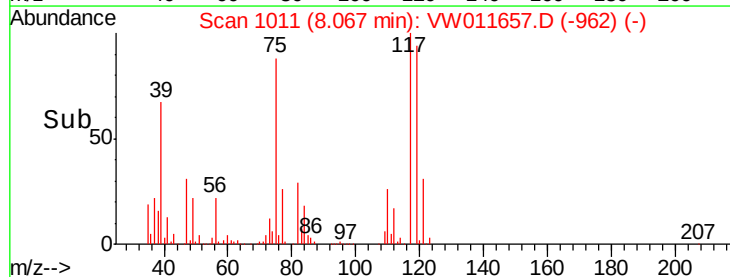
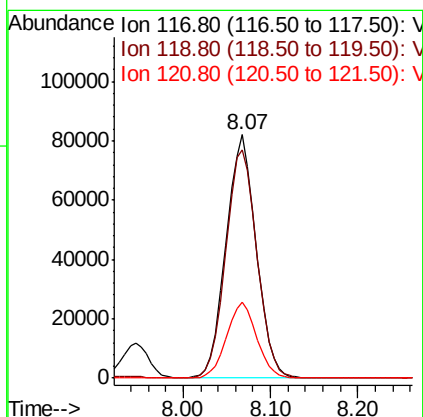
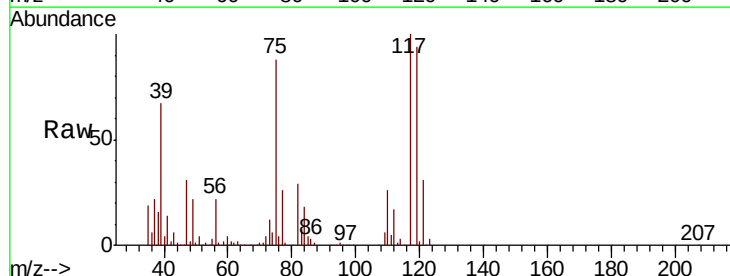
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

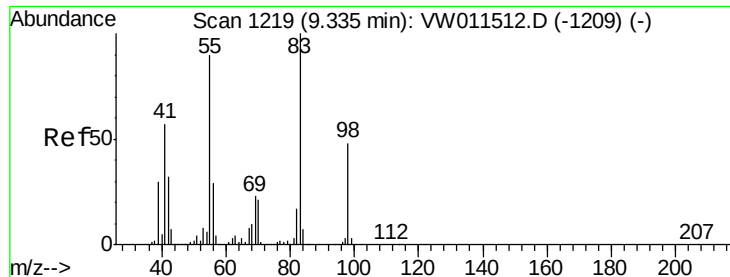
Tgt Ion: 43 Resp: 116389  
Ion Ratio Lower Upper  
43 100  
61 11.5 8.8 13.2  
70 8.6 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 56.159 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 117 Resp: 196615  
Ion Ratio Lower Upper  
117 100  
119 93.5 75.8 113.6  
121 31.0 24.7 37.1

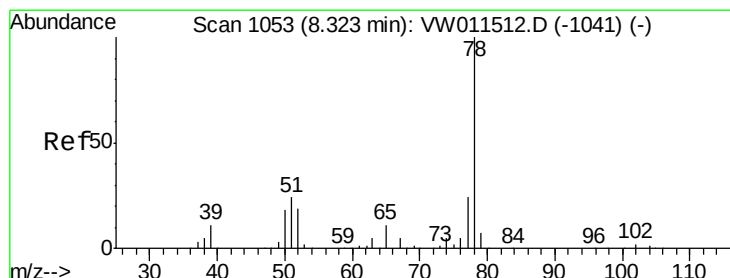
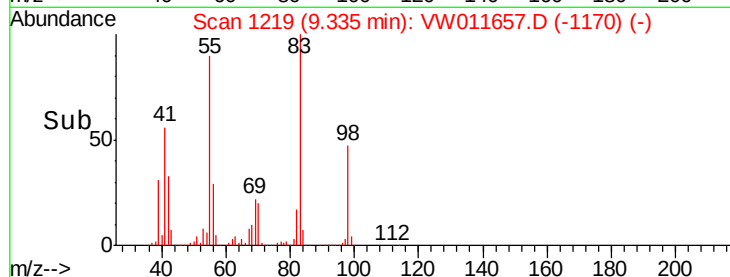
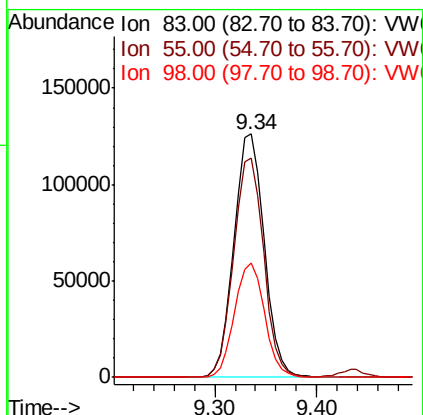
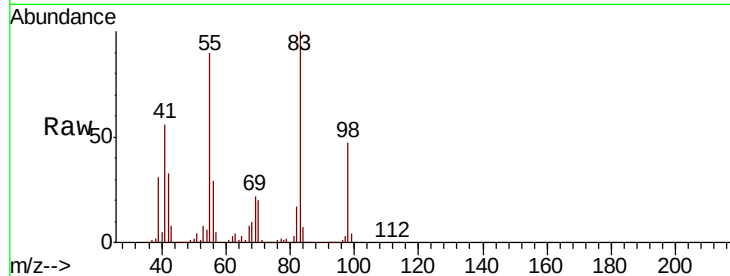




#39  
Methylcyclohexane  
Concen: 57.826 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

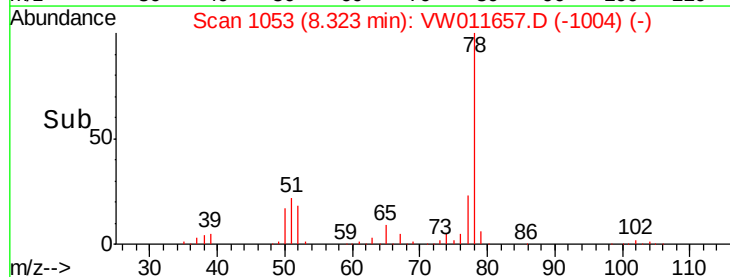
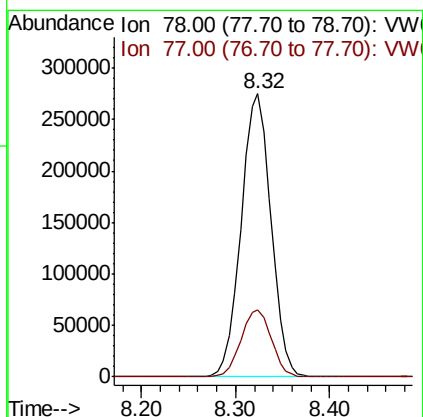
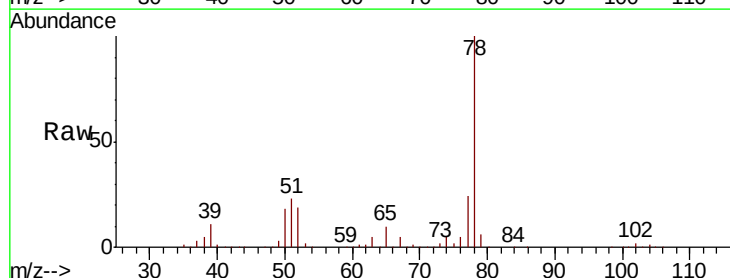
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 83 Resp: 260403  
Ion Ratio Lower Upper  
83 100  
55 90.0 72.1 108.1  
98 47.1 38.6 57.8

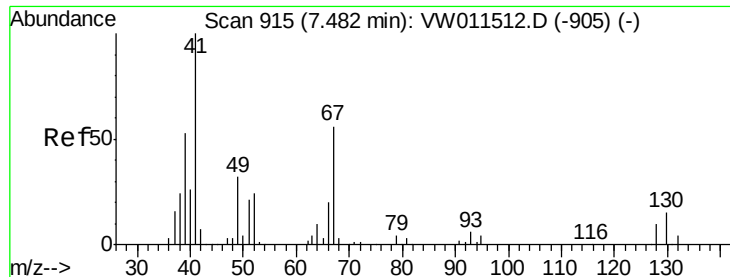


#40  
Benzene  
Concen: 52.884 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 78 Resp: 605810  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.4 29.0



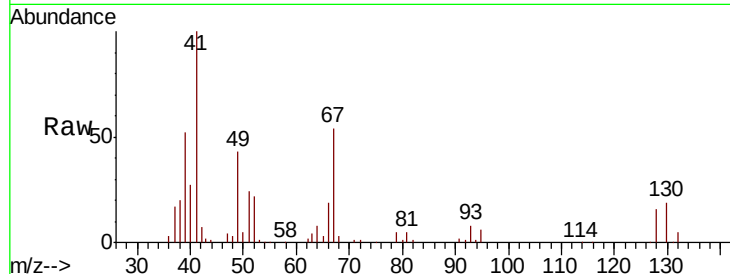




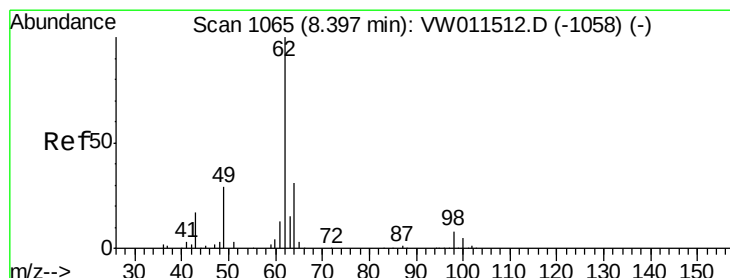
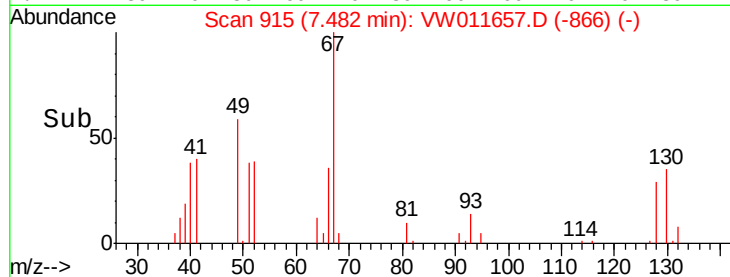
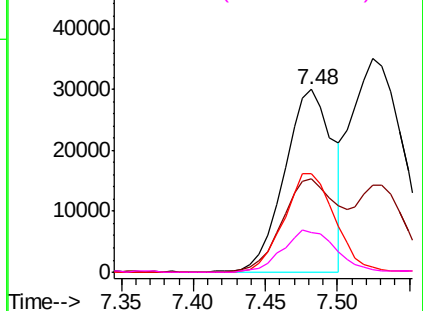
#41  
Methacrylonitrile  
Concen: 49.710 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 69918 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.3  | 43.0  | 64.4  |
| 67       | 57.8  | 47.5  | 71.3  |
| 52       | 25.9  | 21.0  | 31.6  |

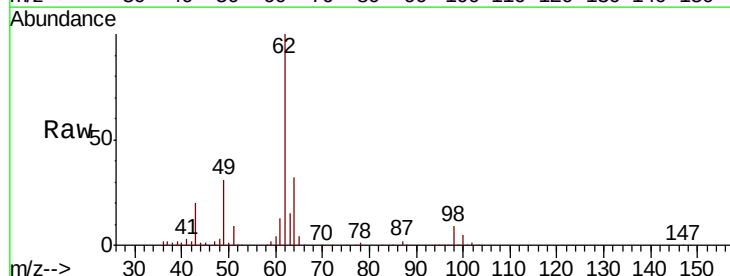


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

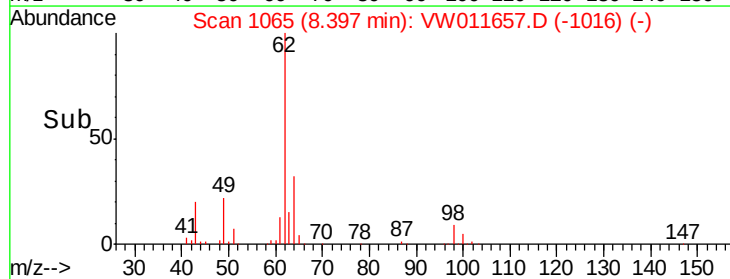
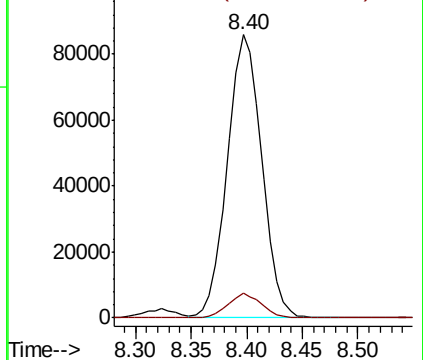


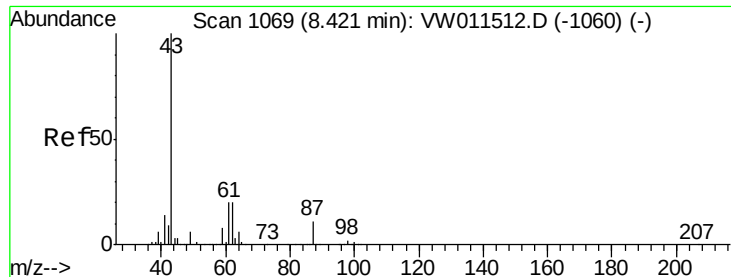
#42  
1,2-Dichloroethane  
Concen: 51.219 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 183700 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.4   | 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: 50.725 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

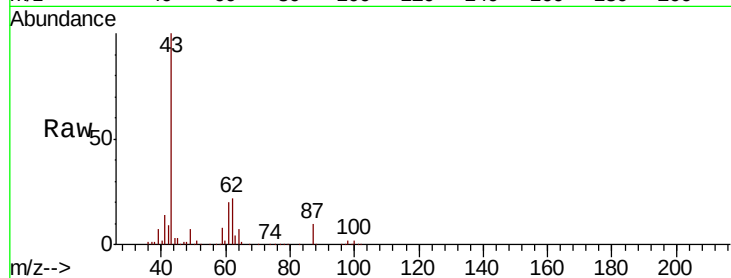
Tgt Ion: 43 Resp: 219497

Ion Ratio Lower Upper

43 100

61 26.6 21.5 32.3

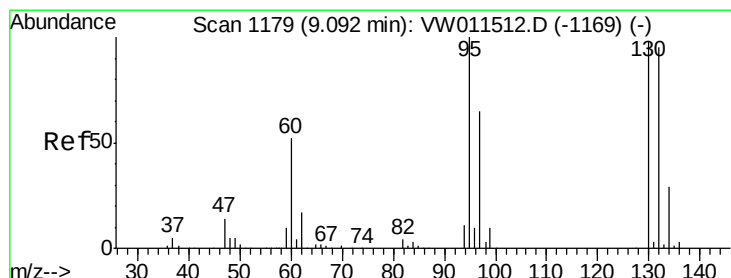
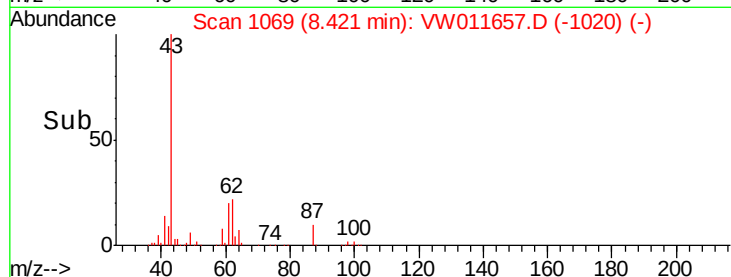
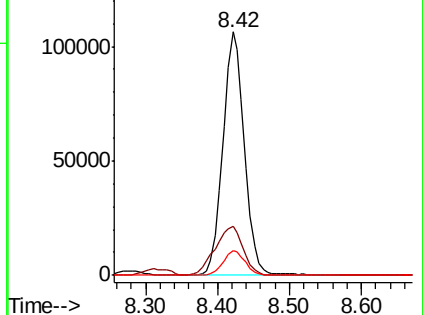
87 10.2 8.4 12.6



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: 54.060 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011657.D

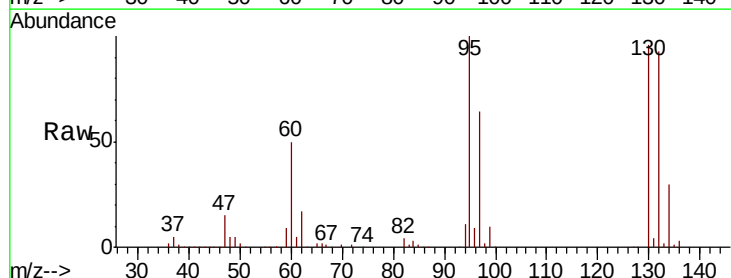
Acq: 03 Aug 2019 11:09

Tgt Ion: 130 Resp: 148843

Ion Ratio Lower Upper

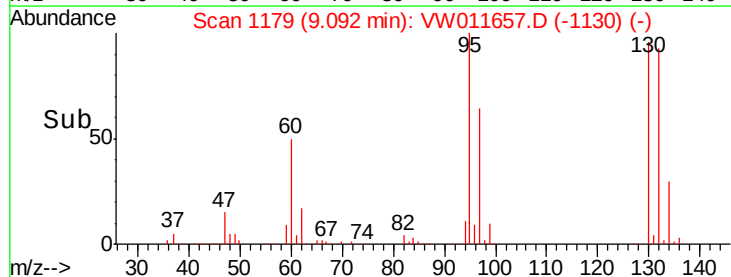
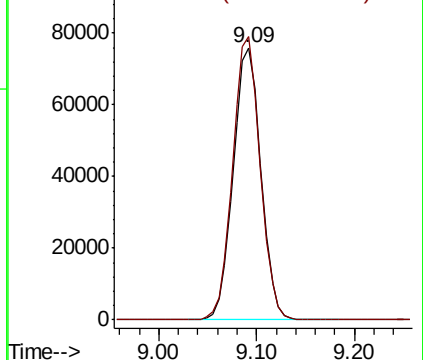
130 100

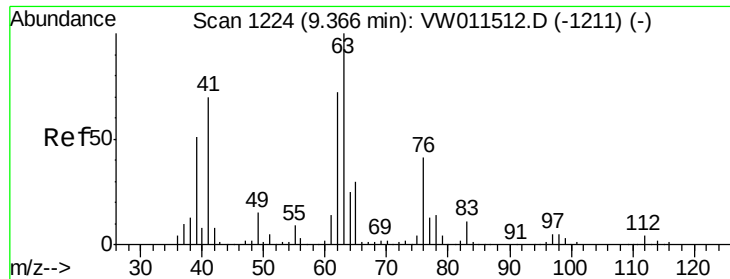
95 104.1 0.0 204.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

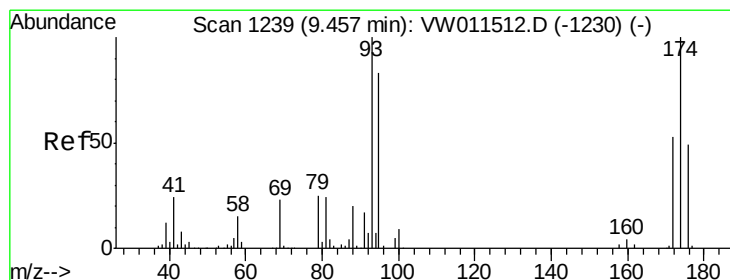
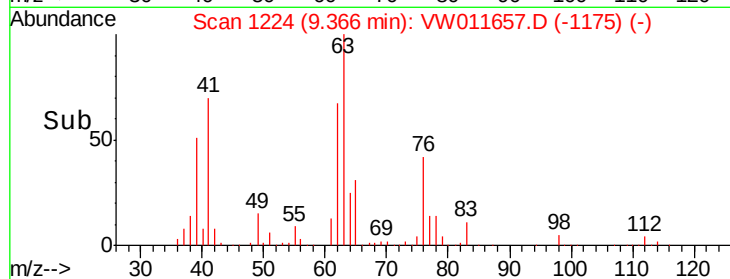
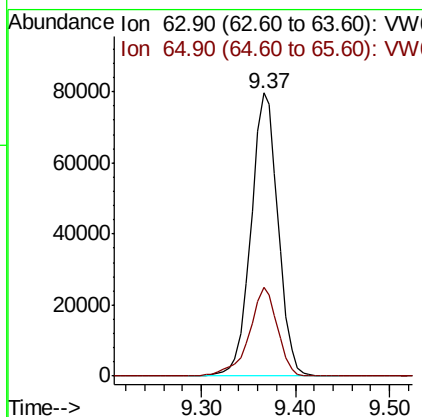
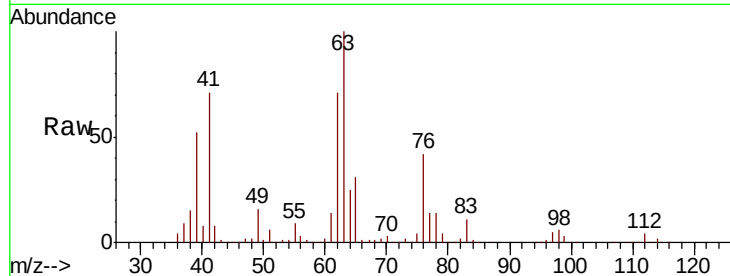




#45  
 1,2-Dichloropropane  
 Concen: 52.439 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

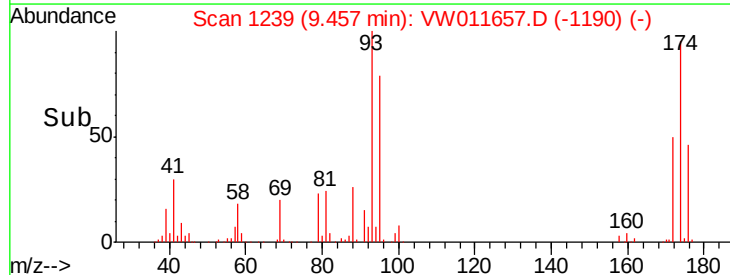
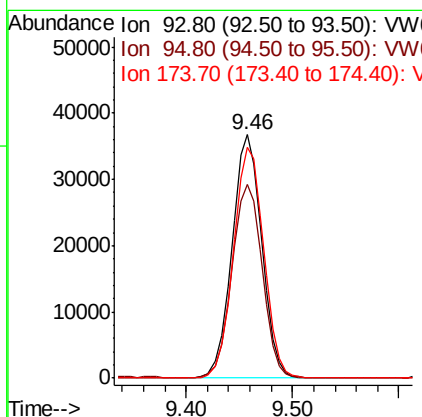
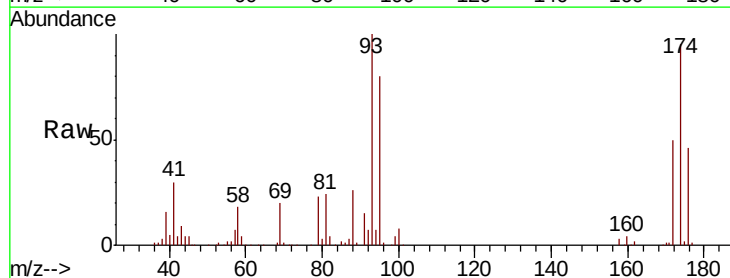
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

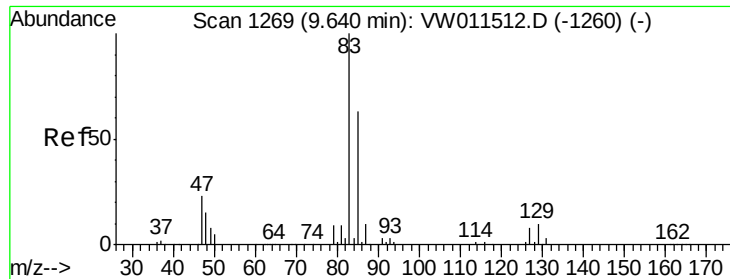
Tgt Ion: 63 Resp: 160730  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 24.2 36.4



#46  
 Dibromomethane  
 Concen: 51.462 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 93 Resp: 71994  
 Ion Ratio Lower Upper  
 93 100  
 95 81.3 66.2 99.2  
 174 96.5 78.2 117.4





#47

Bromodichloromethane

Concen: 52.620 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

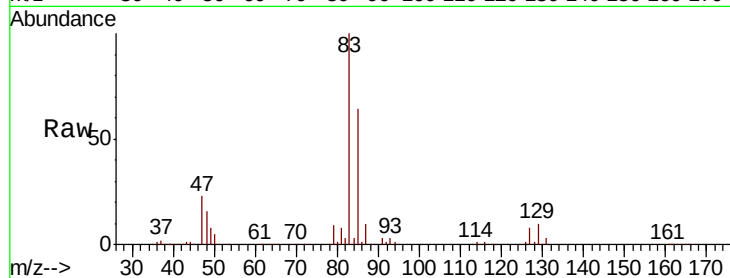
Tgt Ion: 83 Resp: 193100

Ion Ratio Lower Upper

83 100

85 63.6 50.5 75.7

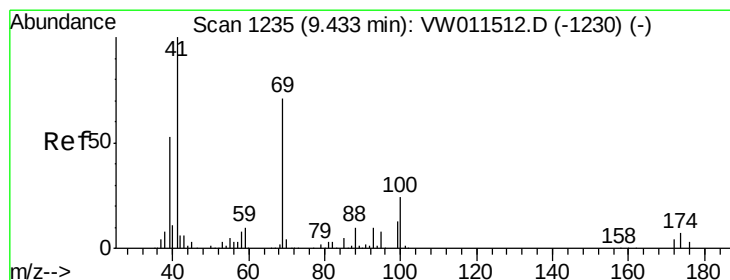
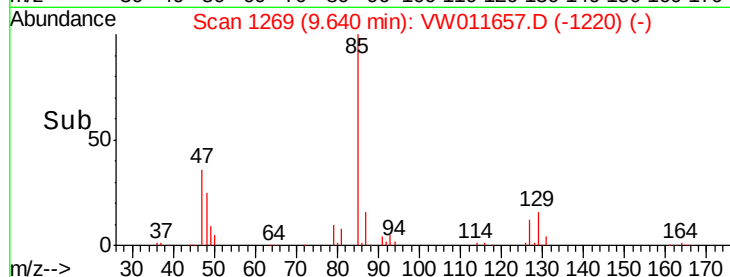
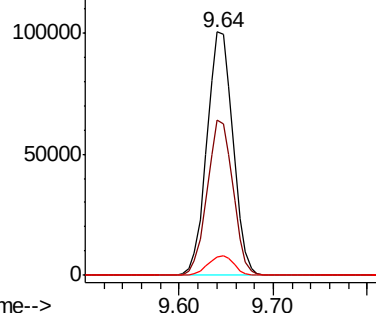
127 7.8 6.4 9.6



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): VW



#48

Methyl methacrylate

Concen: 50.632 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

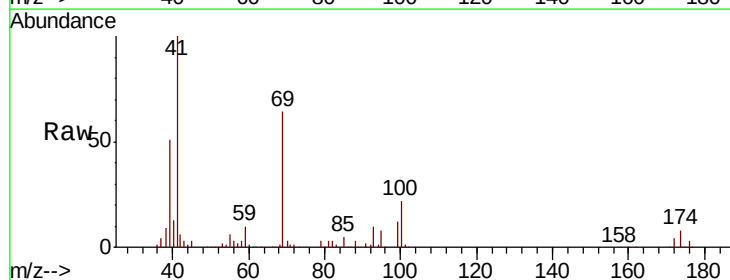
Tgt Ion: 41 Resp: 105244

Ion Ratio Lower Upper

41 100

69 71.3 57.1 85.7

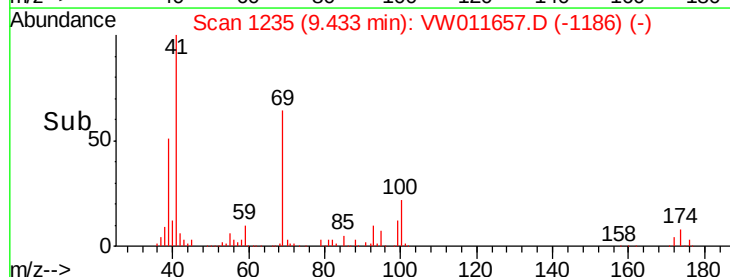
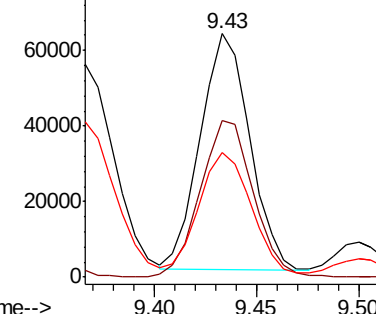
39 53.0 45.4 68.2

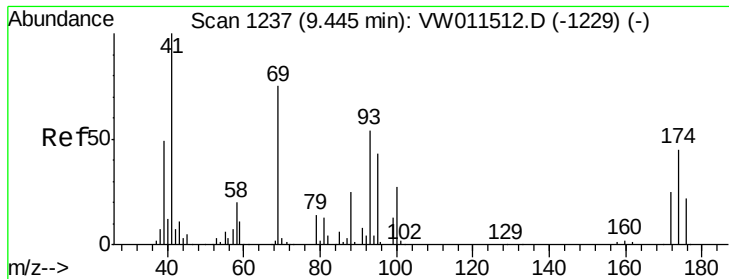


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

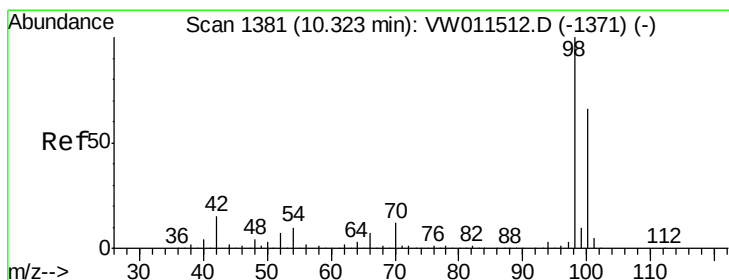
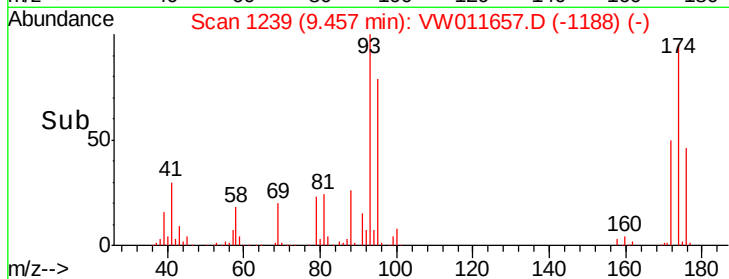
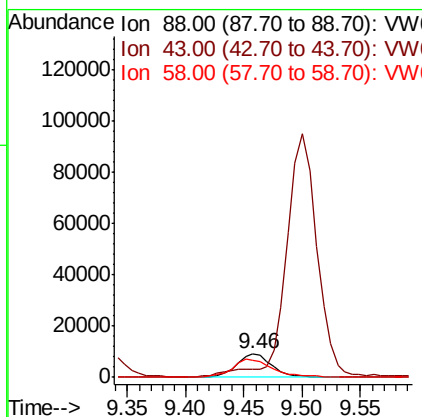
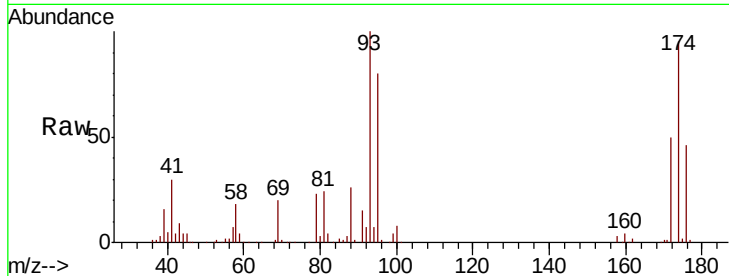




#49  
1,4-Dioxane  
Concen: 974.366 ug/l  
RT: 9.46 min Scan# 1239  
Delta R.T. 0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

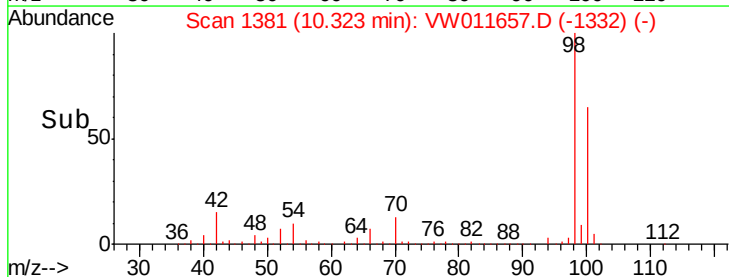
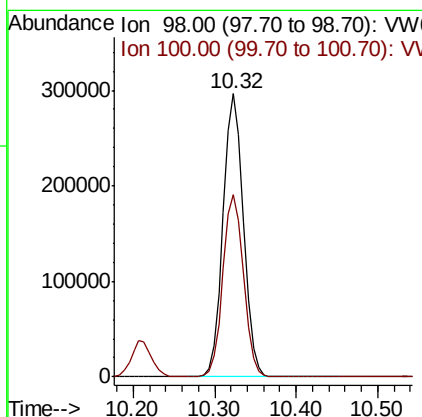
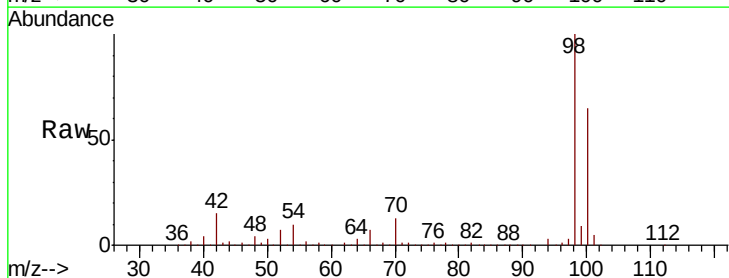
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

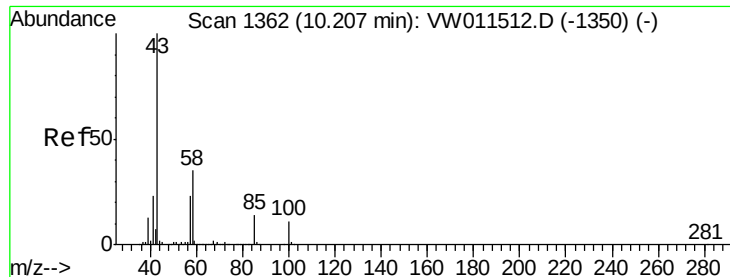
Tgt Ion: 88 Resp: 19737  
Ion Ratio Lower Upper  
88 100  
43 0.0 34.0 51.0#  
58 86.6 69.7 104.5



#50  
Toluene-d8  
Concen: 56.666 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 98 Resp: 511937  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.7 79.1

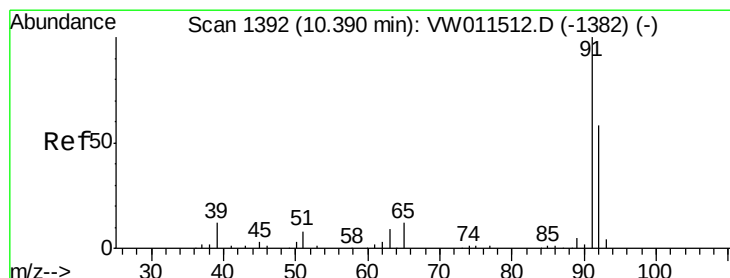
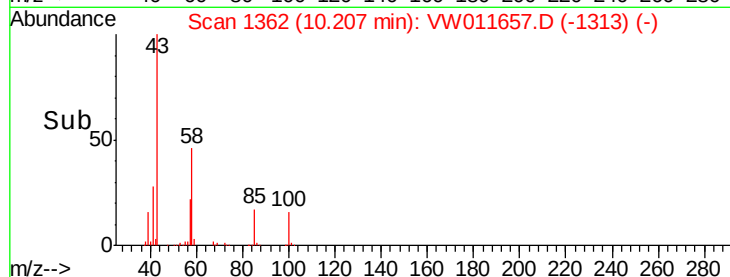
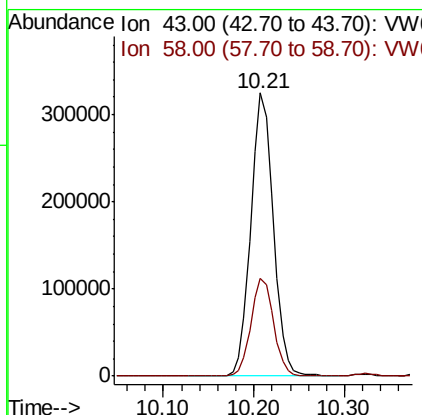
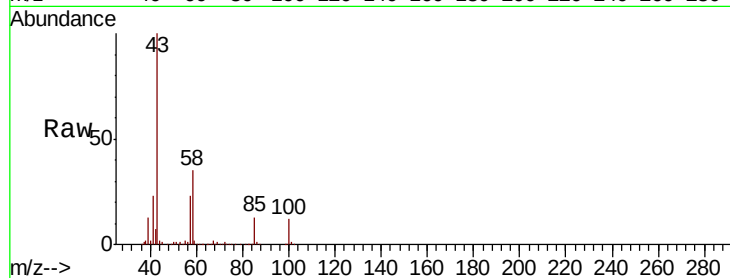




#51  
 4-Methyl-2-Pentanone  
 Concen: 248.759 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

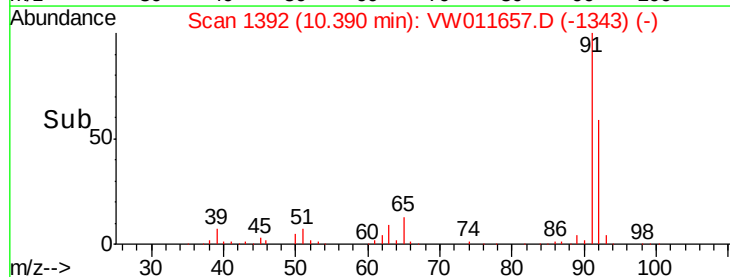
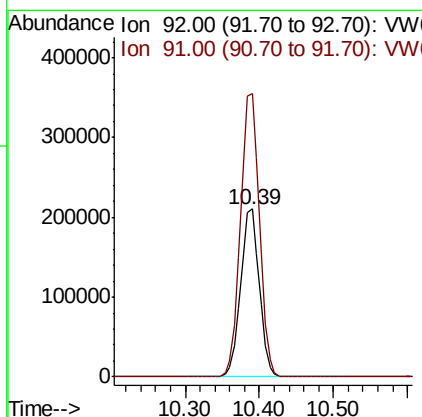
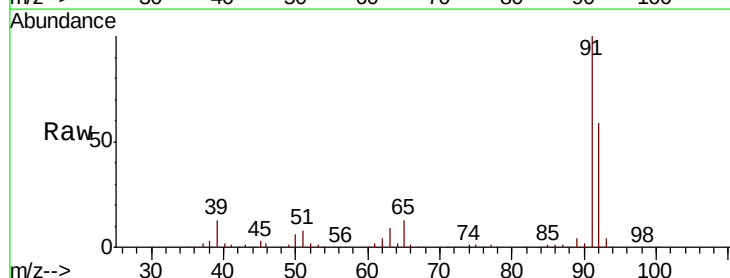
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

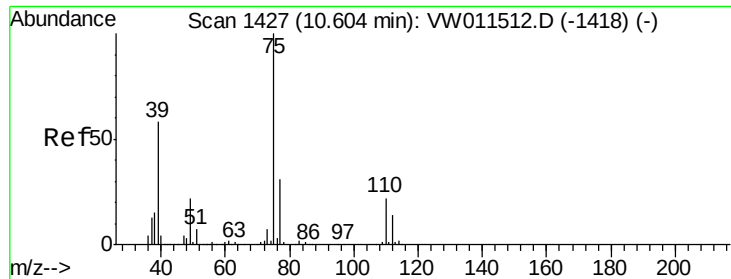
Tgt Ion: 43 Resp: 559904  
 Ion Ratio Lower Upper  
 43 100  
 58 34.8 28.2 42.2



#52  
 Toluene  
 Concen: 53.579 ug/l  
 RT: 10.39 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 92 Resp: 370656  
 Ion Ratio Lower Upper  
 92 100  
 91 172.0 136.7 205.1

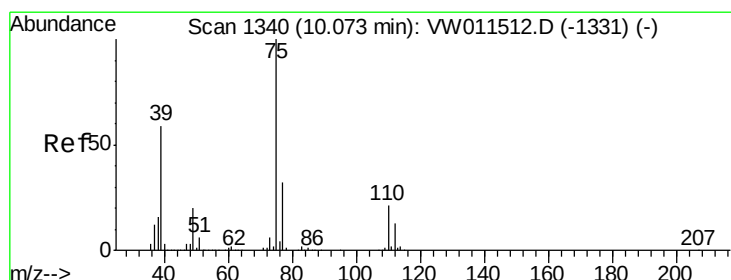
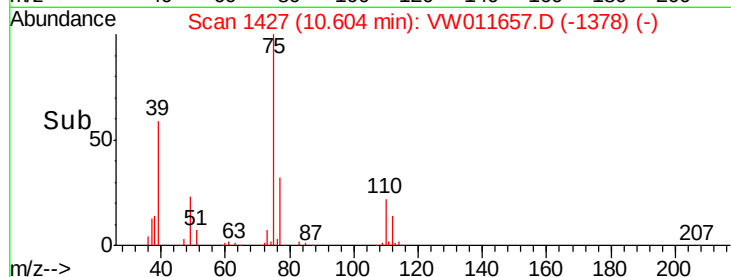
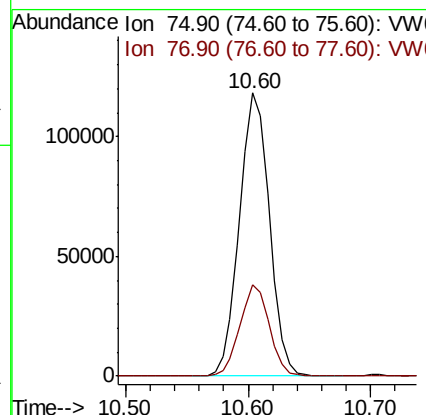
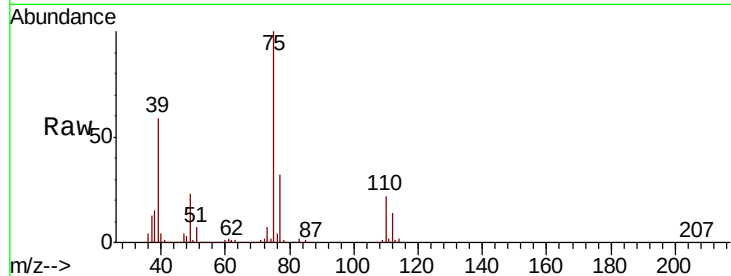




#53  
t-1,3-Dichloropropene  
Concen: 52.328 ug/l  
RT: 10.60 min Scan# 1427  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

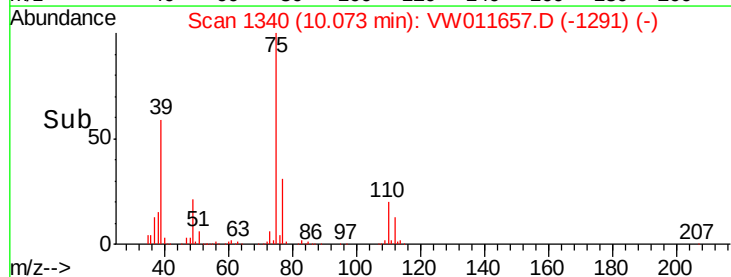
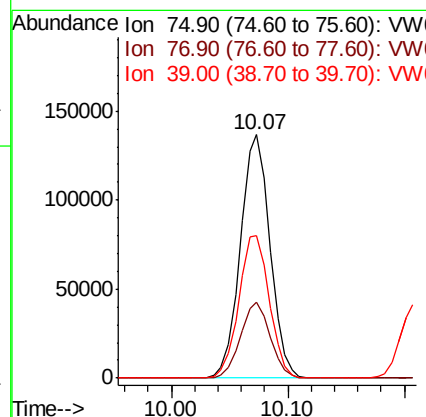
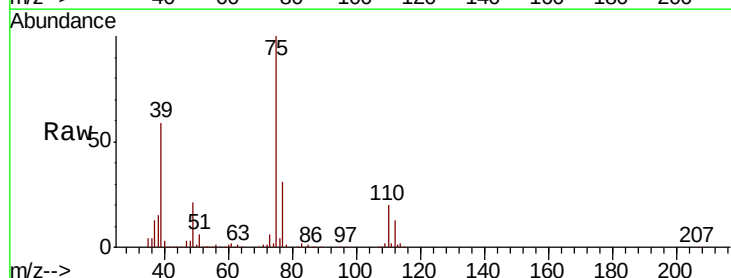
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDCCC050

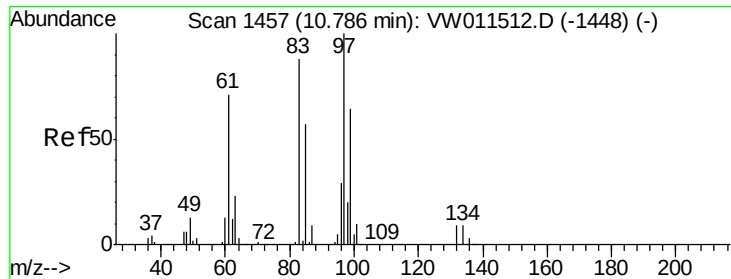
Tgt Ion: 75 Resp: 200593  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.0 37.4



#54  
cis-1,3-Dichloropropene  
Concen: 53.281 ug/l  
RT: 10.07 min Scan# 1340  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 75 Resp: 242849  
Ion Ratio Lower Upper  
75 100  
77 31.1 25.6 38.4  
39 58.7 47.0 70.4

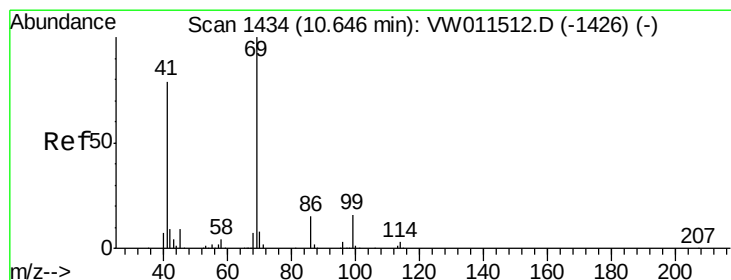
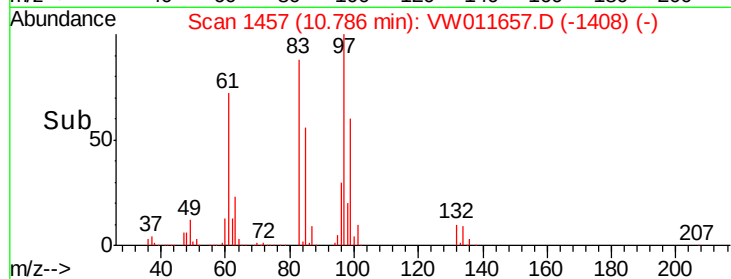
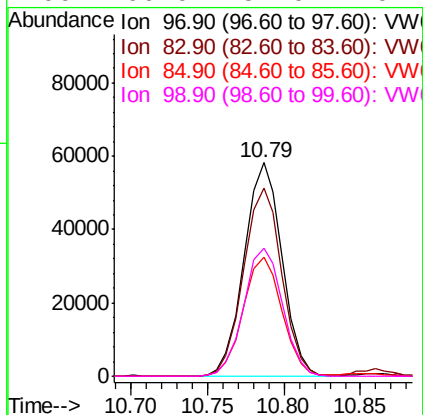
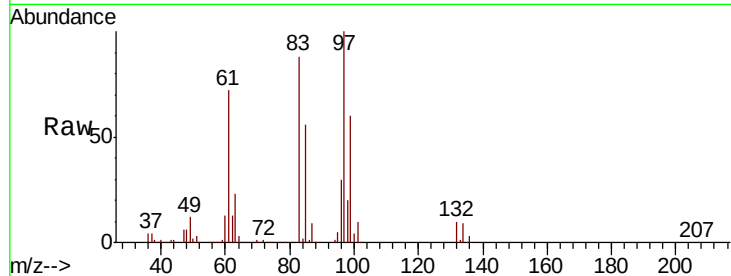




#55  
 1,1,2-Trichloroethane  
 Concen: 50.524 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

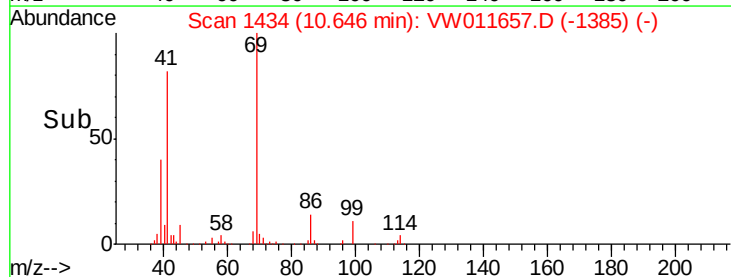
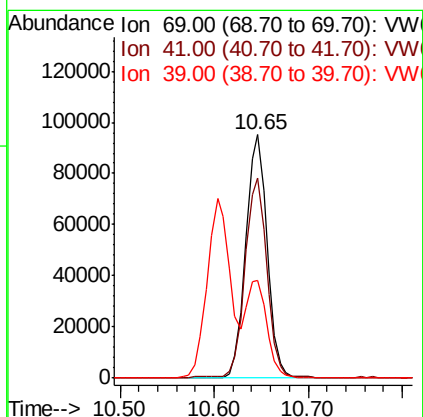
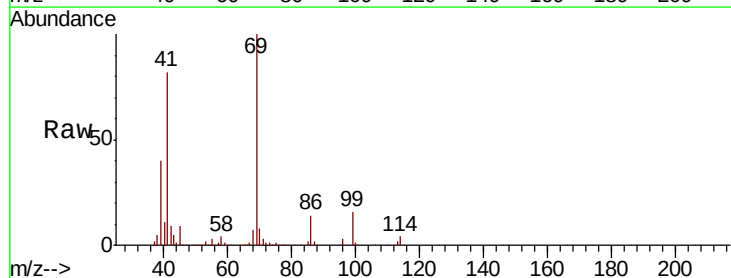
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 100287 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 88.1  | 70.5  | 105.7  |
| 85       | 55.9  | 45.8  | 68.6   |
| 99       | 60.0  | 51.0  | 76.4   |

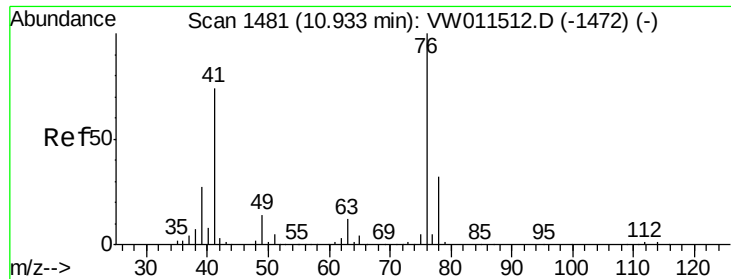


#56  
 Ethyl methacrylate  
 Concen: 52.181 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 151564 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 83.0  | 66.6  | 99.8   |
| 39       | 38.2  | 30.3  | 45.5   |







#57

1,3-Dichloropropane

Concen: 50.929 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

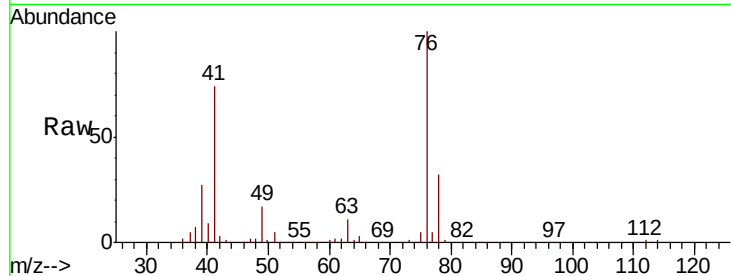
VSTDCCC050

Tgt Ion: 76 Resp: 191253

Ion Ratio Lower Upper

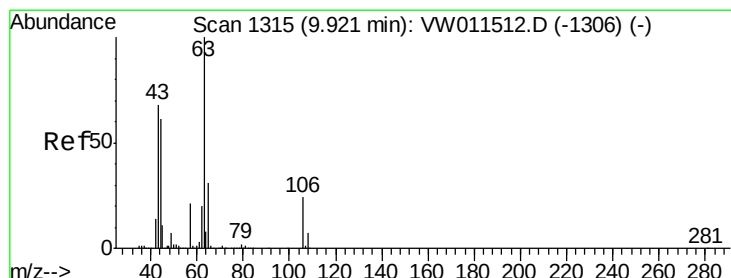
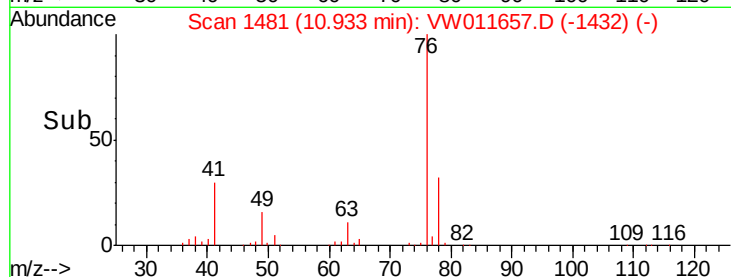
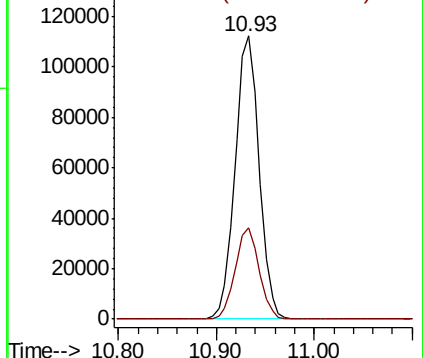
76 100

78 32.3 25.2 37.8



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#58

2-Chloroethyl Vinyl ether

Concen: 299.623 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VW011657.D

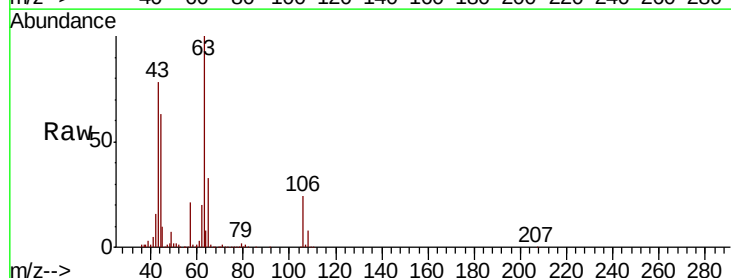
Acq: 03 Aug 2019 11:09

Tgt Ion: 63 Resp: 395143

Ion Ratio Lower Upper

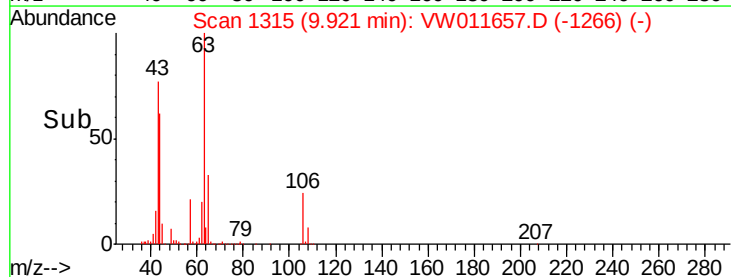
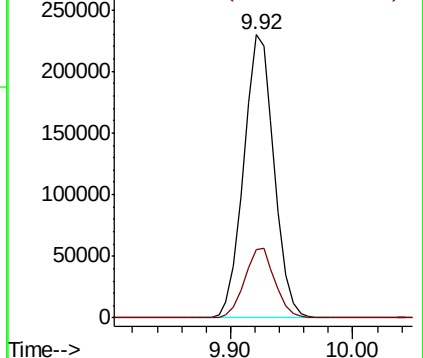
63 100

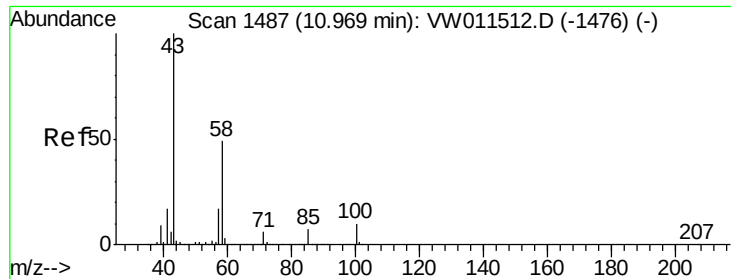
106 24.5 19.7 29.5



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 261.024 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

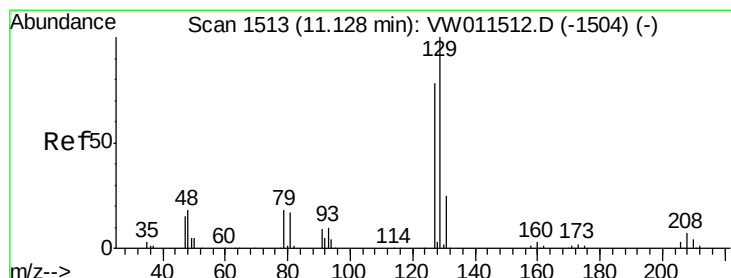
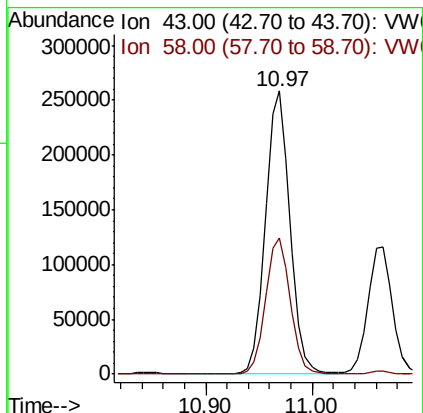
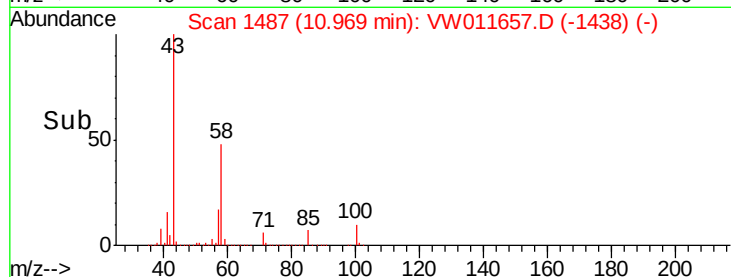
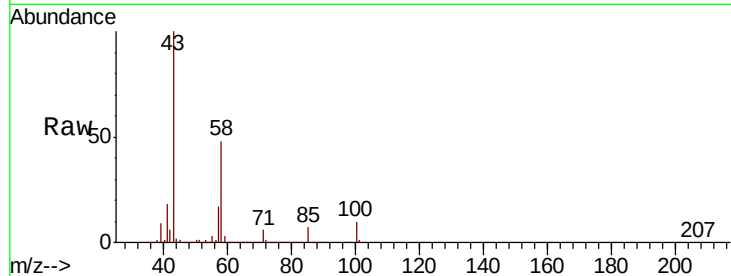
VSTDCCC050

Tgt Ion: 43 Resp: 414819

Ion Ratio Lower Upper

43 100

58 48.6 24.3 72.9



#60

Dibromochloromethane

Concen: 52.556 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW011657.D

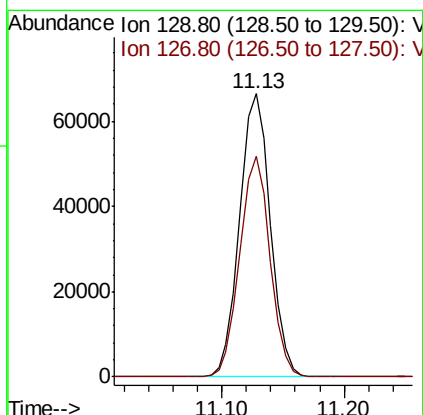
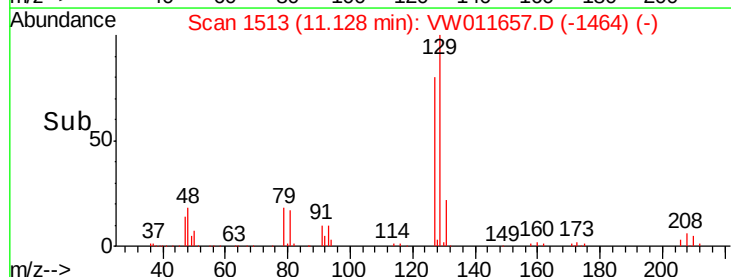
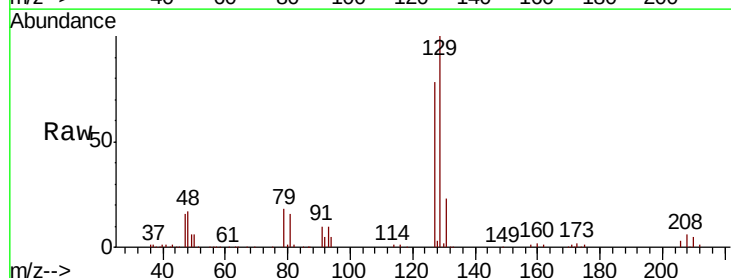
Acq: 03 Aug 2019 11:09

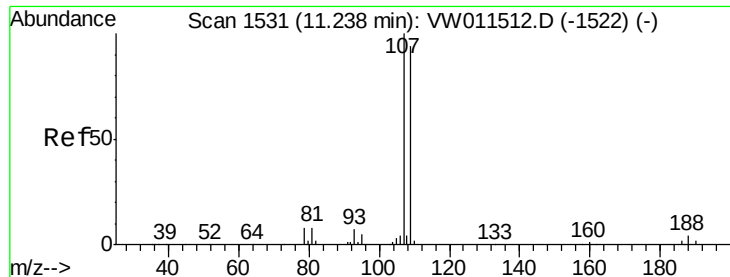
Tgt Ion: 129 Resp: 115798

Ion Ratio Lower Upper

129 100

127 76.8 38.9 116.7

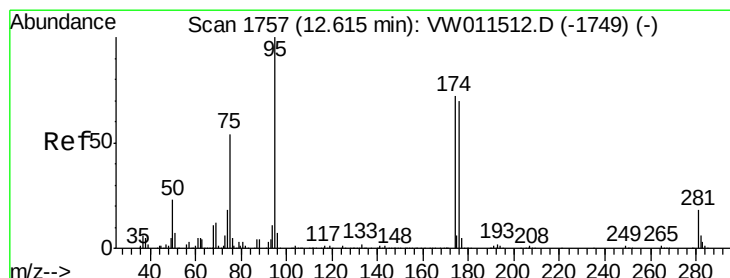
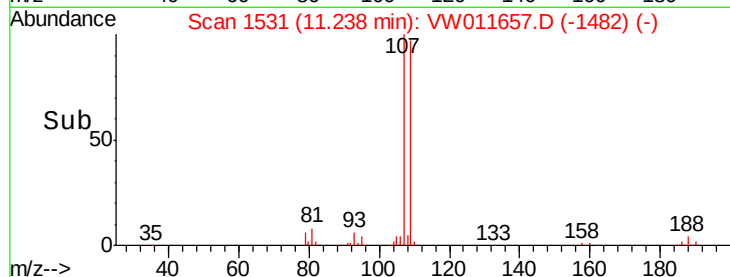
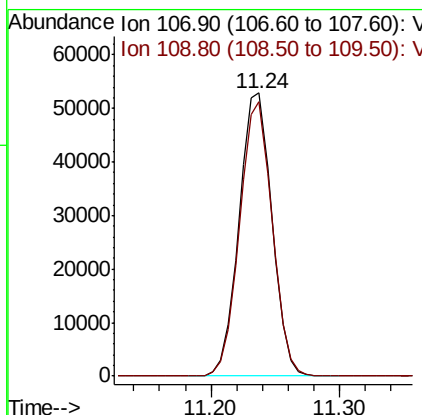
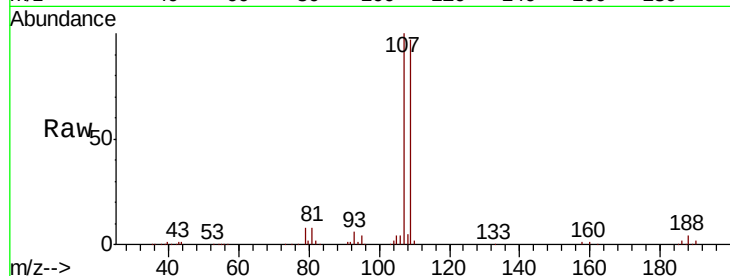




#61  
 1,2-Dibromoethane  
 Concen: 49.570 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

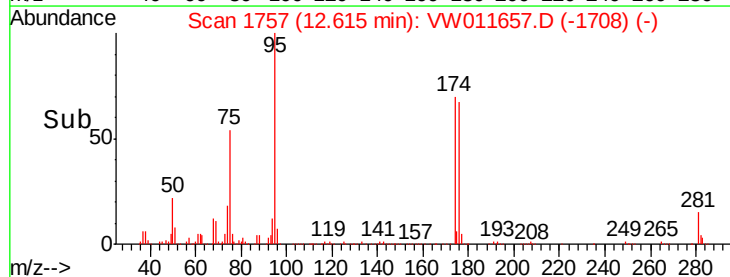
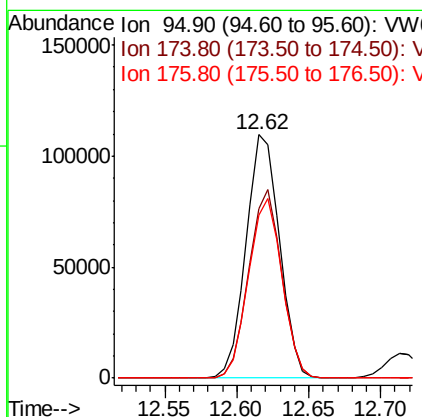
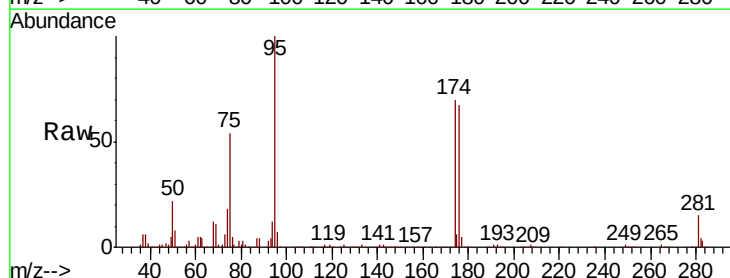
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

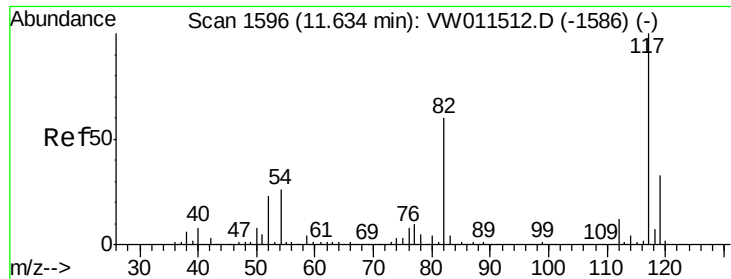
Tgt Ion: 107 Resp: 93113  
 Ion Ratio Lower Upper  
 107 100  
 109 95.9 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 54.642 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion: 95 Resp: 175994  
 Ion Ratio Lower Upper  
 95 100  
 174 76.3 0.0 150.2  
 176 73.9 0.0 144.4

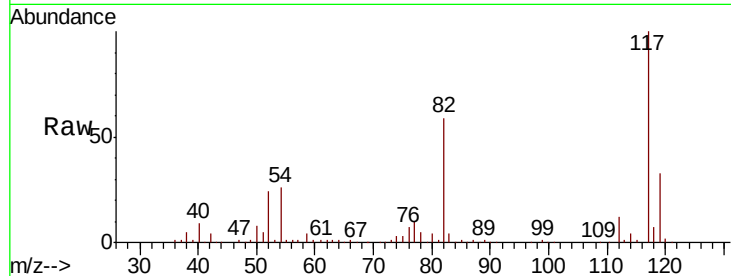




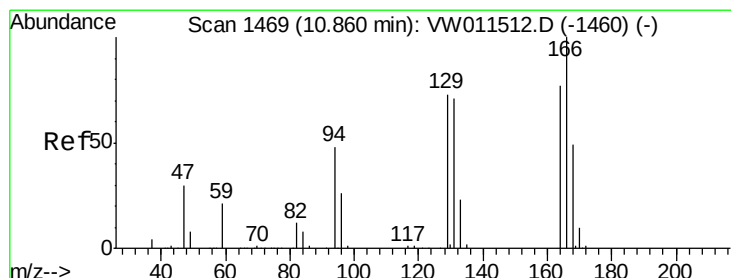
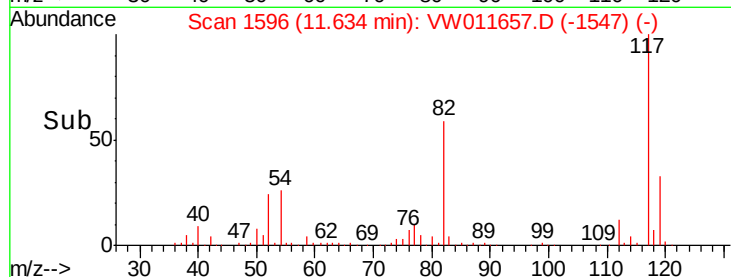
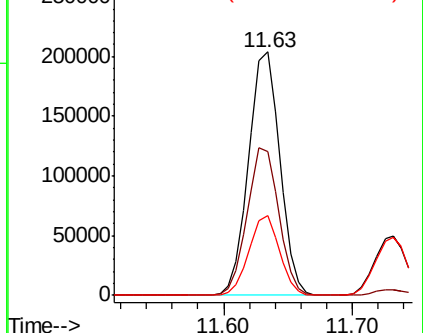
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:117 Resp: 342324  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.9 71.9  
119 32.6 26.2 39.2

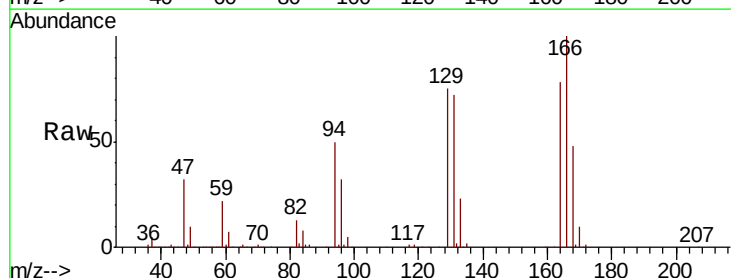


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

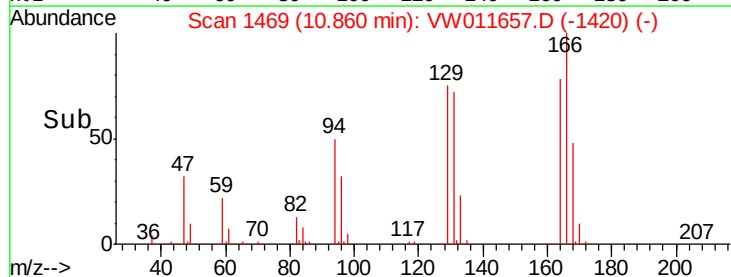
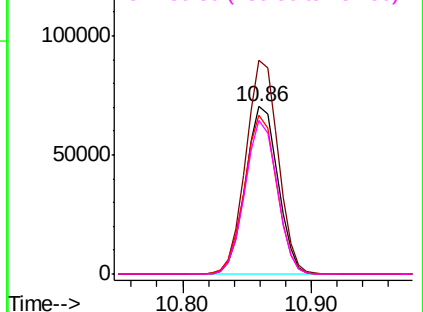


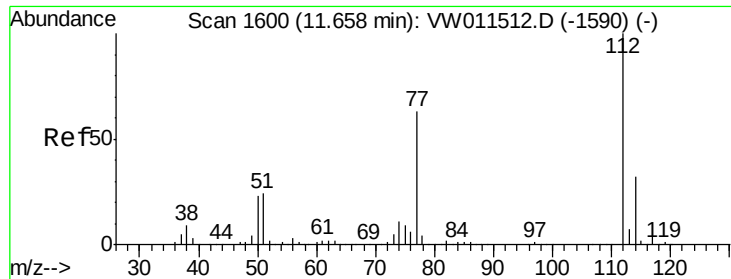
#64  
Tetrachloroethene  
Concen: 54.735 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion:164 Resp: 121998  
Ion Ratio Lower Upper  
164 100  
166 127.4 103.5 155.3  
129 95.1 75.2 112.8  
131 91.7 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

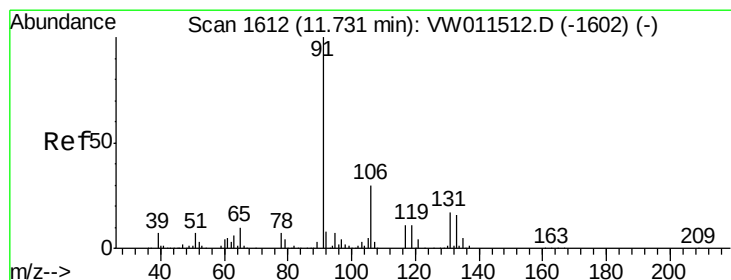
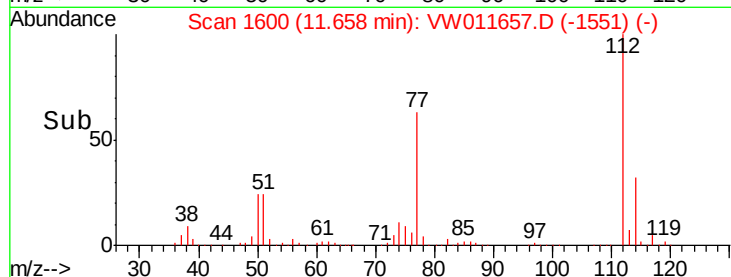
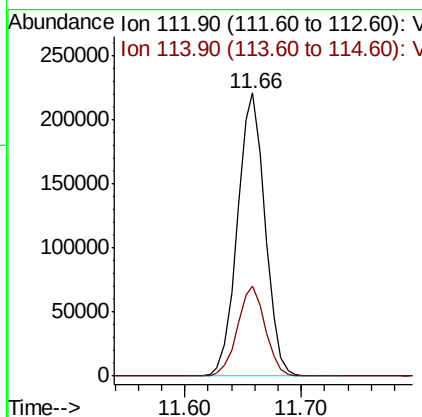
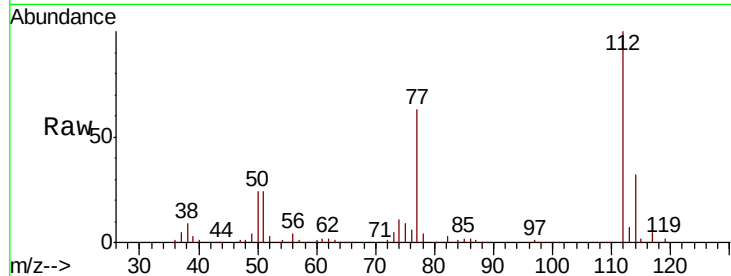




#65  
Chlorobenzene  
Concen: 52.888 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

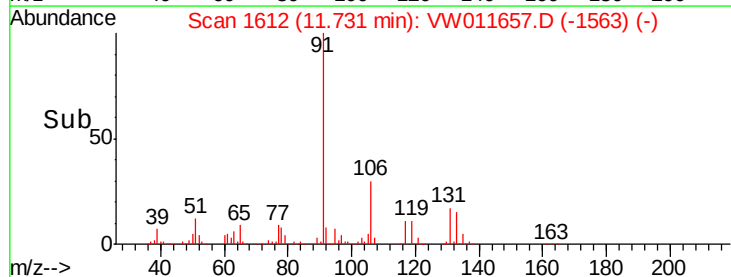
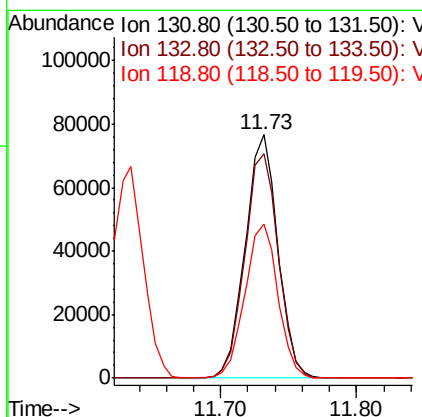
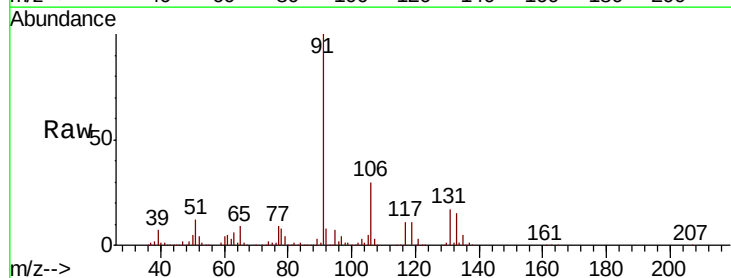
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

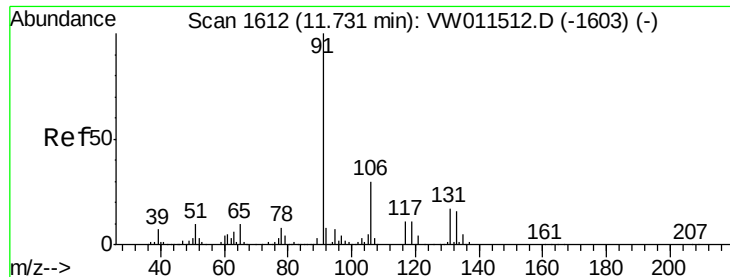
Tgt Ion:112 Resp: 363994  
Ion Ratio Lower Upper  
112 100  
114 31.9 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 53.646 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion:131 Resp: 128605  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.4 142.2  
119 64.4 32.3 96.9

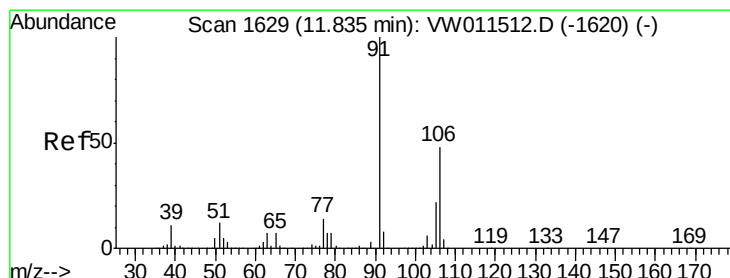
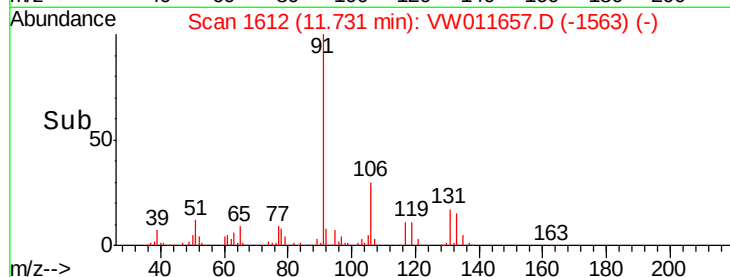
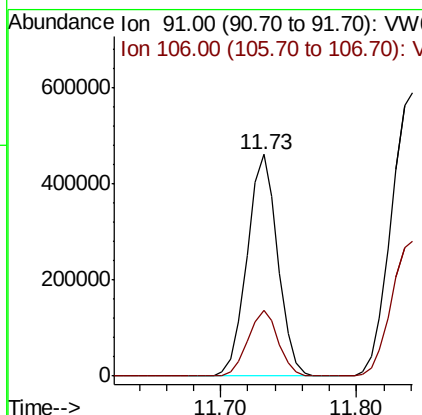
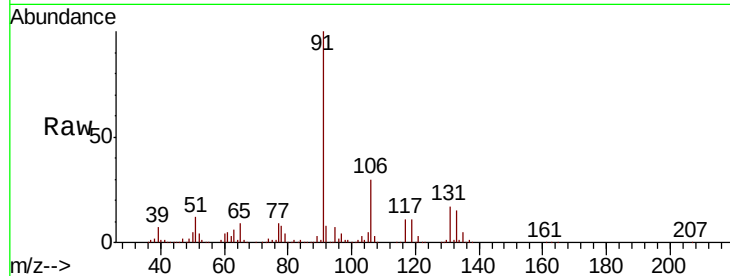




#67  
Ethyl Benzene  
Concen: 55.409 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

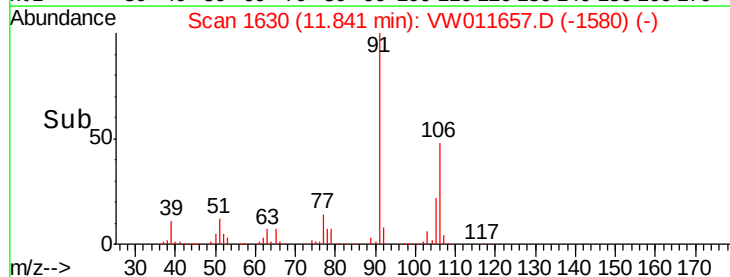
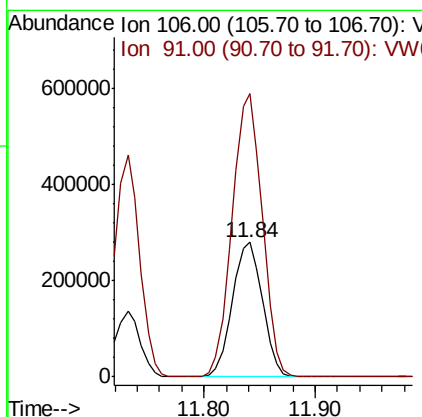
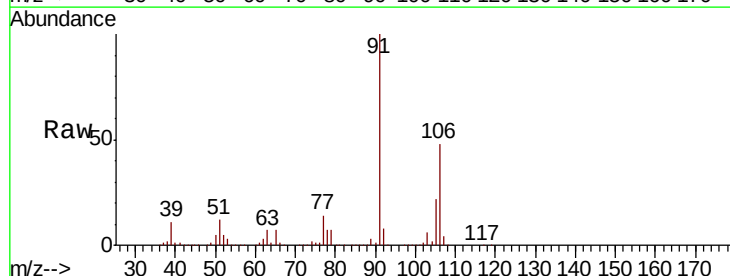
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

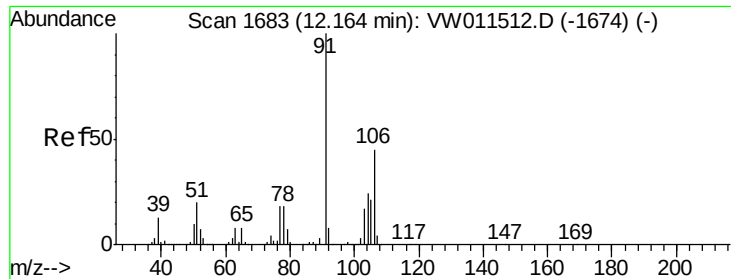
Tgt Ion: 91 Resp: 726280  
Ion Ratio Lower Upper  
91 100  
106 29.7 23.8 35.6



#68  
m/p-Xylenes  
Concen: 110.022 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion: 106 Resp: 524459  
Ion Ratio Lower Upper  
106 100  
91 210.3 168.2 252.2

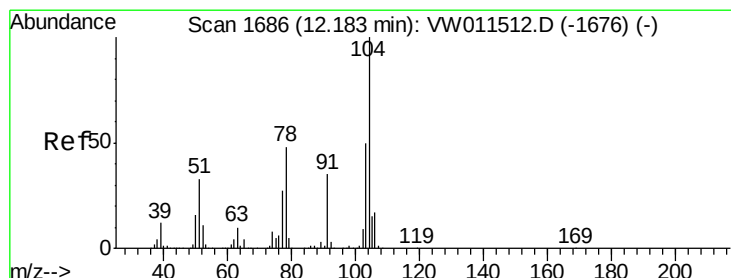
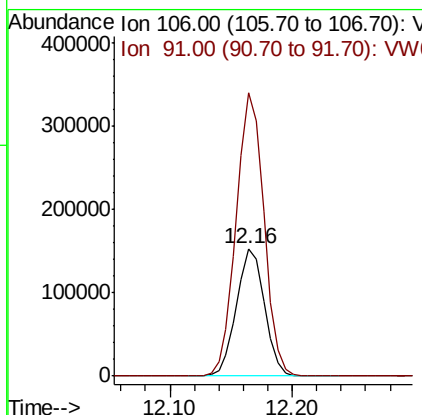
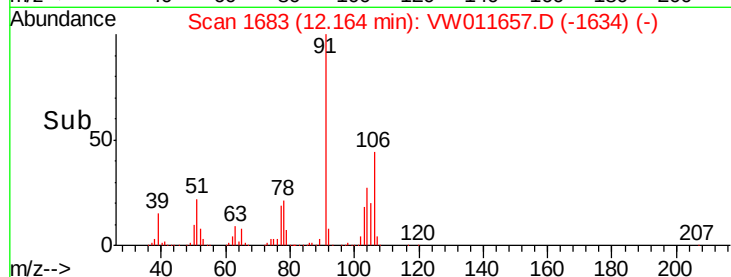
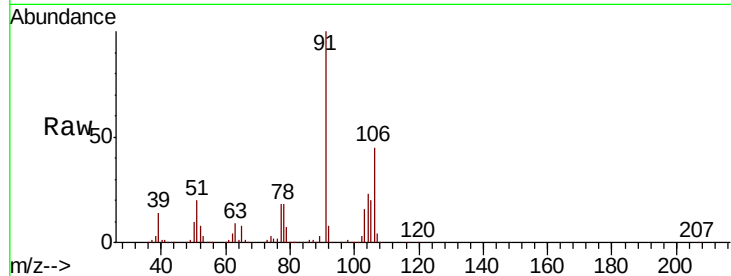




#69  
o-Xylene  
Concen: 54.628 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

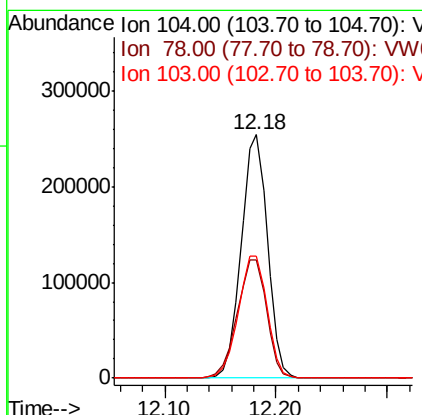
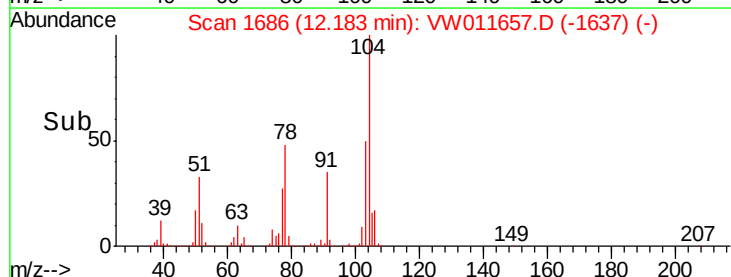
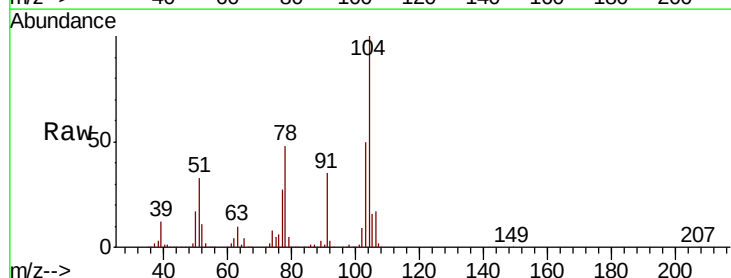
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

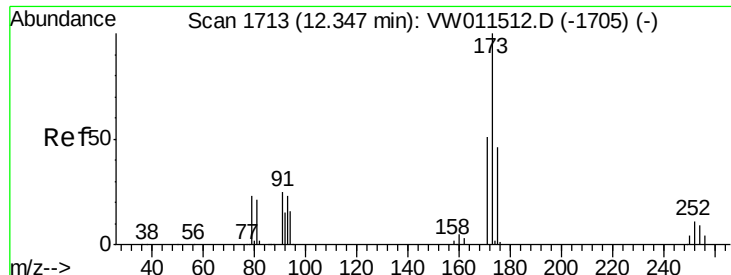
Tgt Ion:106 Resp: 241983  
Ion Ratio Lower Upper  
106 100  
91 220.9 110.5 331.5



#70  
Styrene  
Concen: 54.346 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion:104 Resp: 416233  
Ion Ratio Lower Upper  
104 100  
78 54.4 43.4 65.0  
103 55.2 43.9 65.9

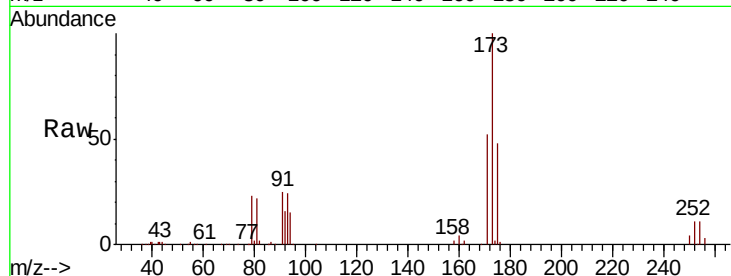




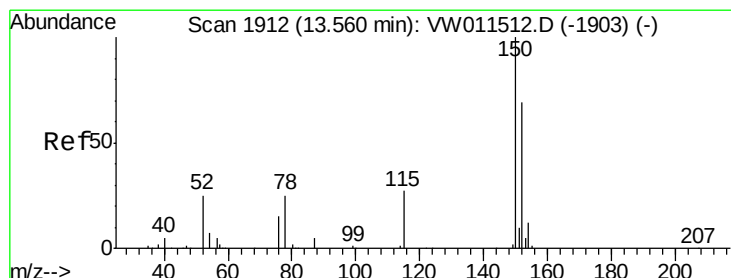
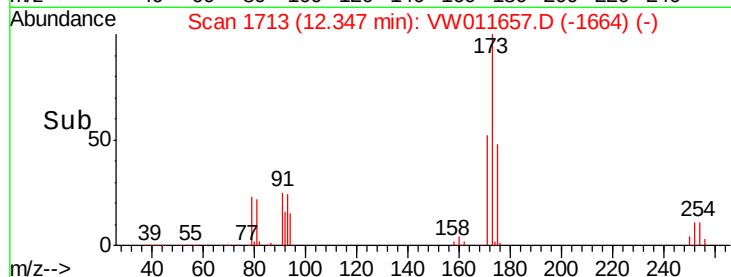
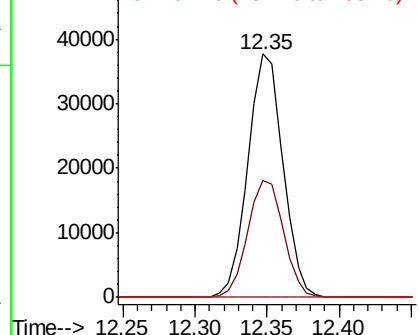
#71  
Bromoform  
Concen: 51.986 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:173 Resp: 63541  
Ion Ratio Lower Upper  
173 100  
175 49.0 23.6 71.0  
254 0.1 0.1 0.1#

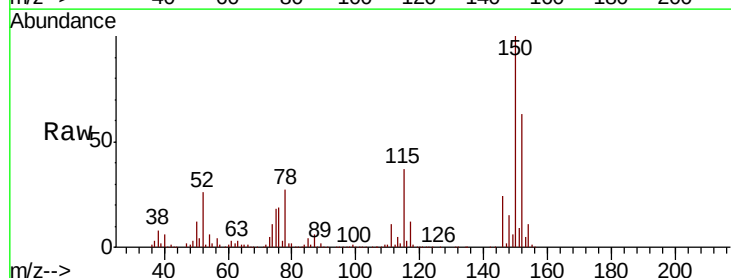


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

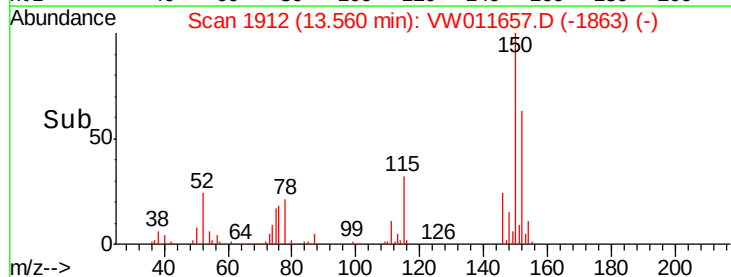
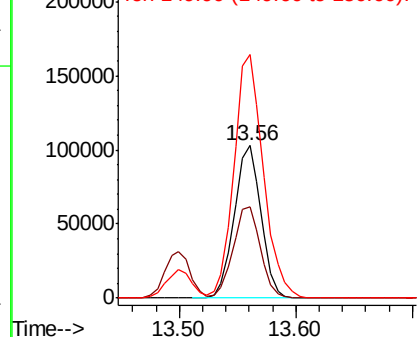


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

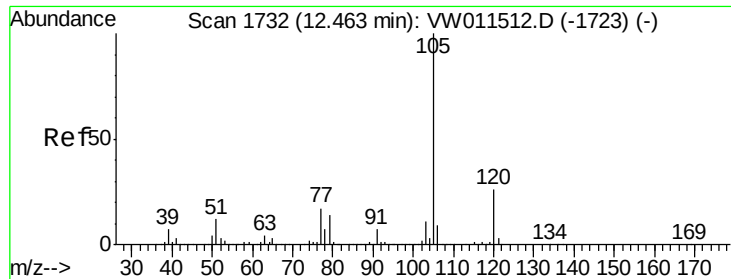
Tgt Ion:152 Resp: 164088  
Ion Ratio Lower Upper  
152 100  
115 61.0 30.5 91.5  
150 175.4 0.0 352.6



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: 56.076 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

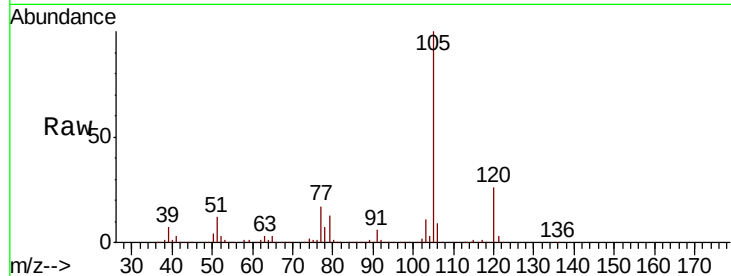
VSTDCCC050

Tgt Ion: 105 Resp: 686449

Ion Ratio Lower Upper

105 100

120 25.7 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

400000

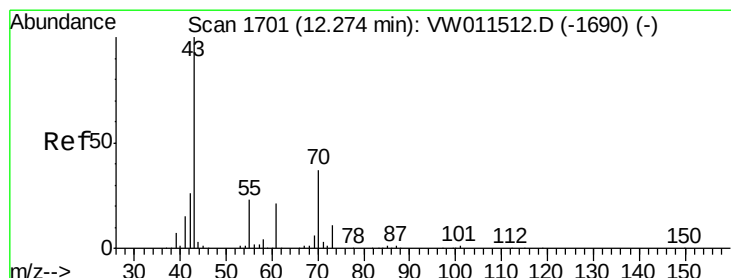
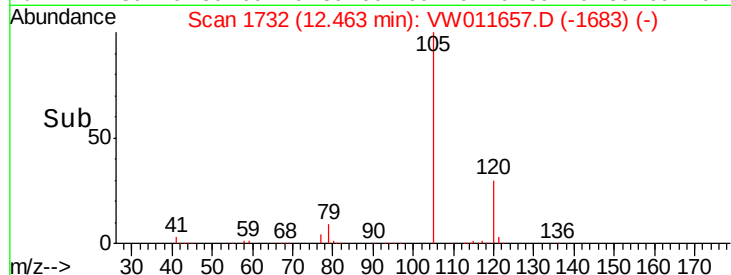
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 52.704 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Tgt Ion: 43 Resp: 201985

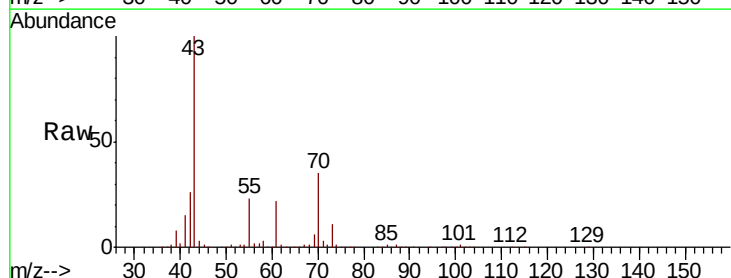
Ion Ratio Lower Upper

43 100

70 35.7 28.6 43.0

55 23.1 17.8 26.8

61 21.4 17.0 25.6



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

200000

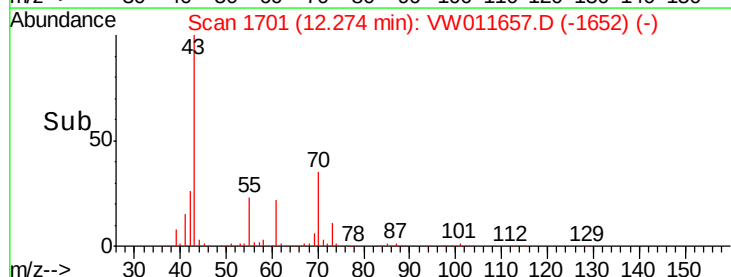
150000

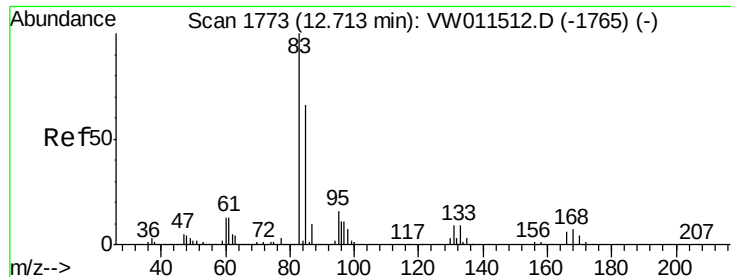
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 51.859 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

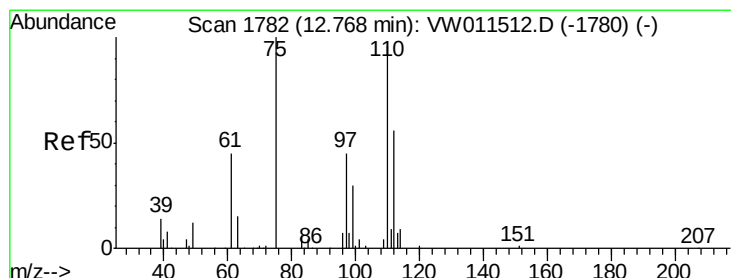
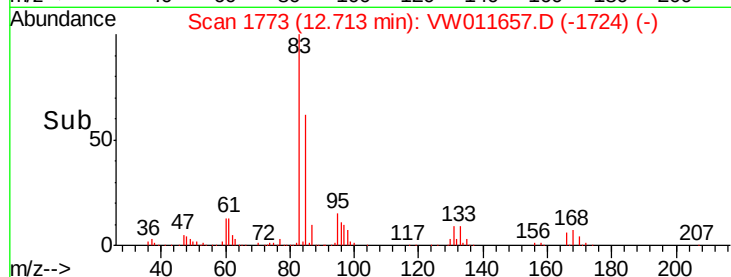
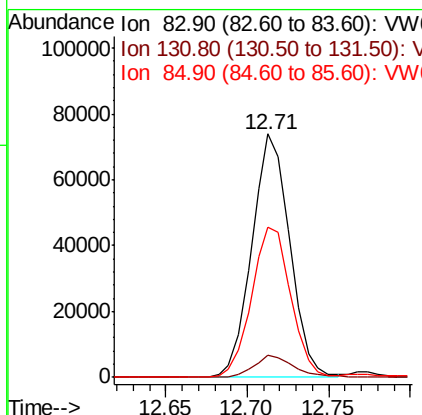
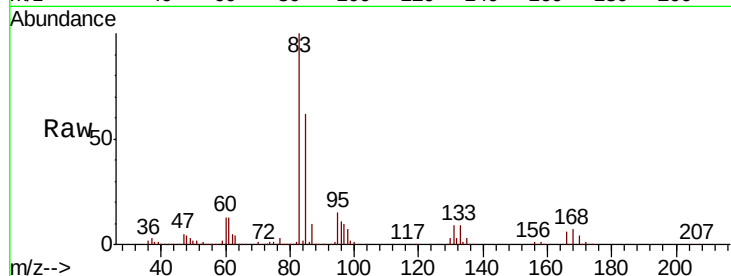
Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 119411 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 131      | 9.5   | 4.9   | 14.6   |
| 85       | 63.6  | 31.8  | 95.4   |



#76

1,2,3-Trichloropropane

Concen: 92.258 ug/l

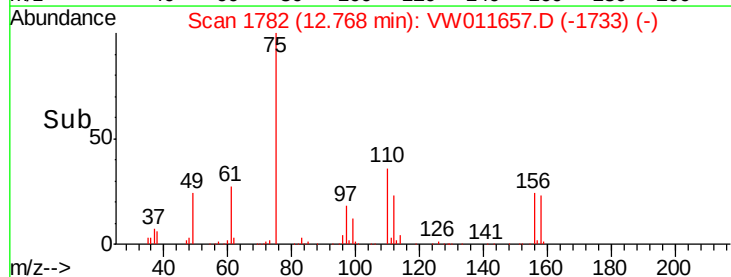
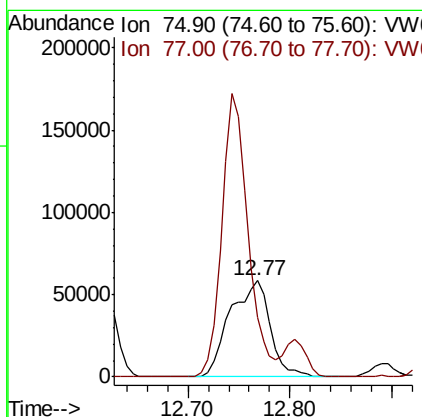
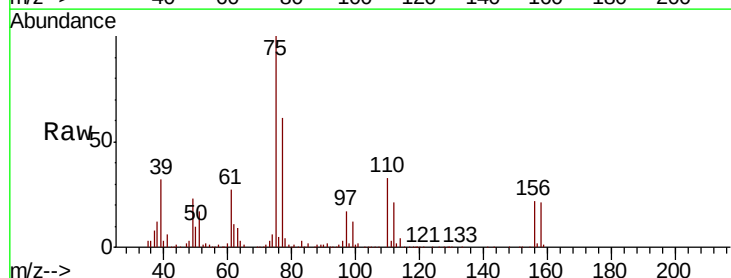
RT: 12.77 min Scan# 1782

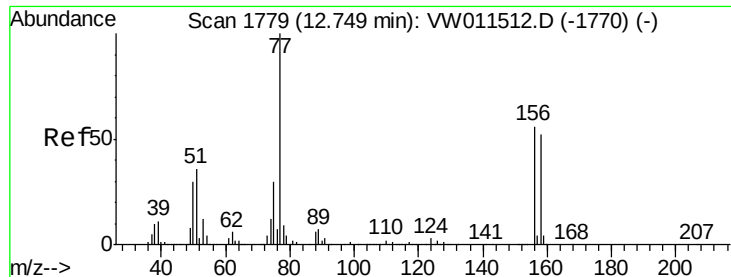
Delta R.T. 0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 160182 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 0.0   | 0.0   | 0.0    |





#77

Bromobenzene

Concen: 54.043 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

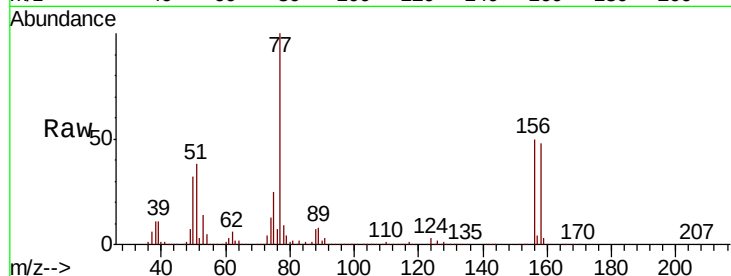
Tgt Ion:156 Resp: 146224

Ion Ratio Lower Upper

156 100

77 210.3 106.5 319.4

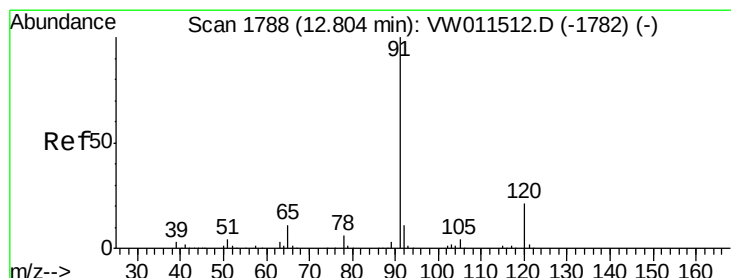
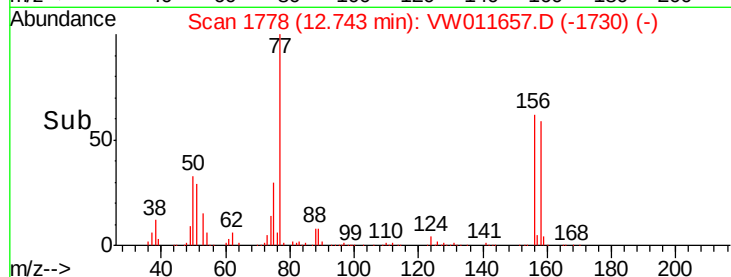
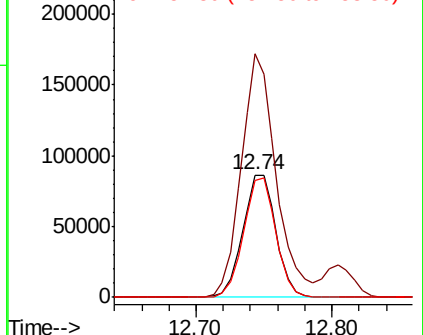
158 95.6 48.0 144.2



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: 56.935 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW011657.D

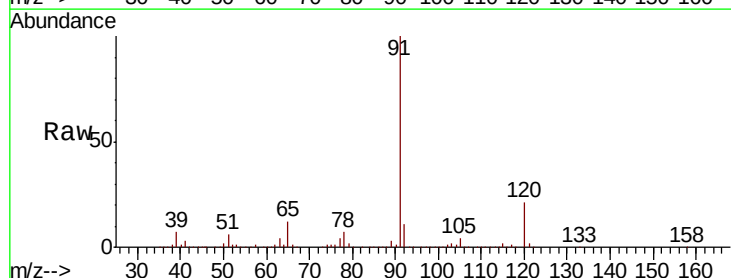
Acq: 03 Aug 2019 11:09

Tgt Ion: 91 Resp: 848205

Ion Ratio Lower Upper

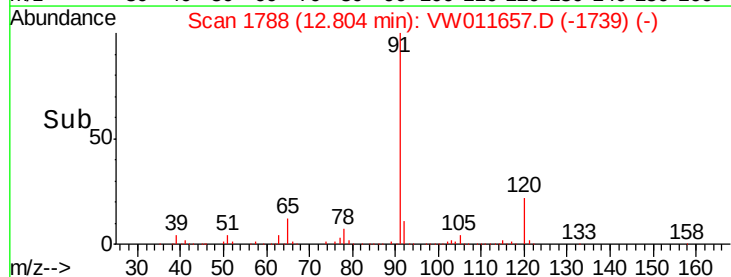
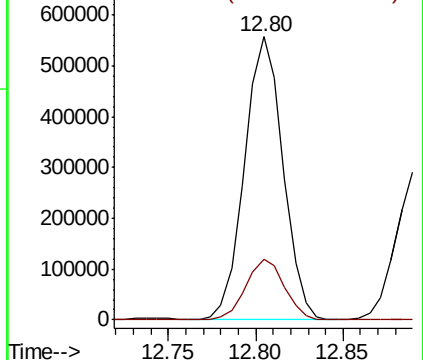
91 100

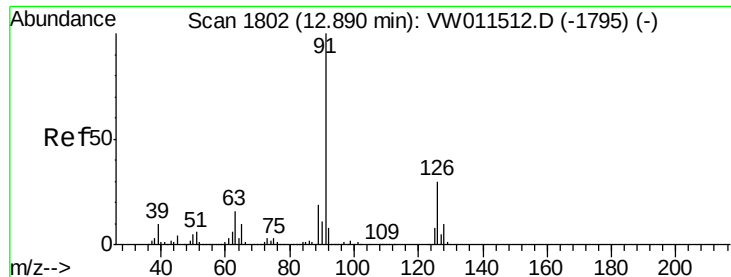
120 21.6 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 54.504 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

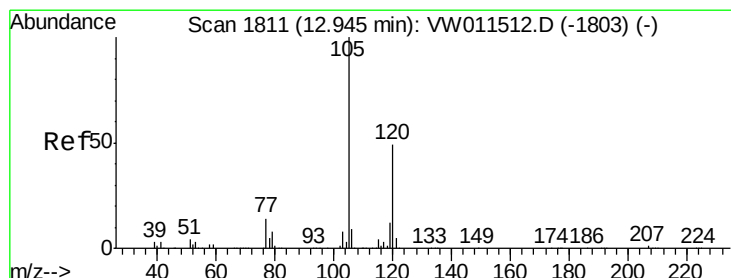
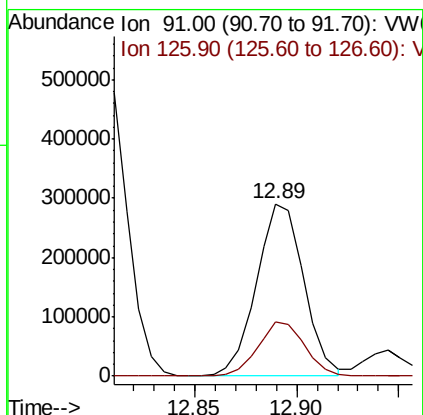
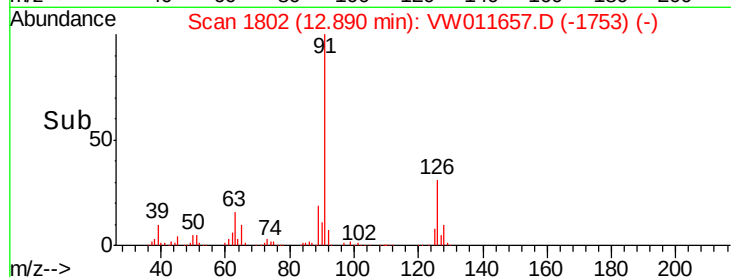
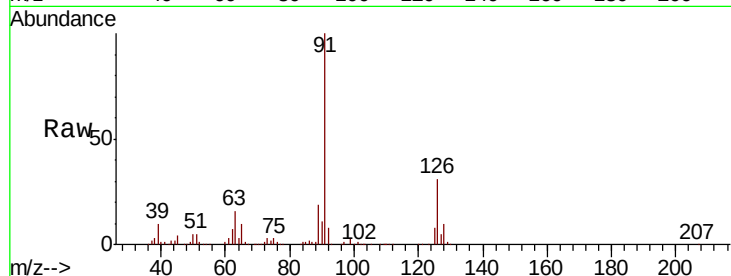
VSTDCCC050

Tgt Ion: 91 Resp: 467789

Ion Ratio Lower Upper

91 100

126 31.1 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 56.424 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011657.D

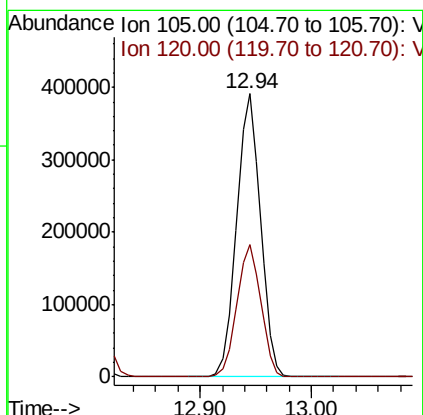
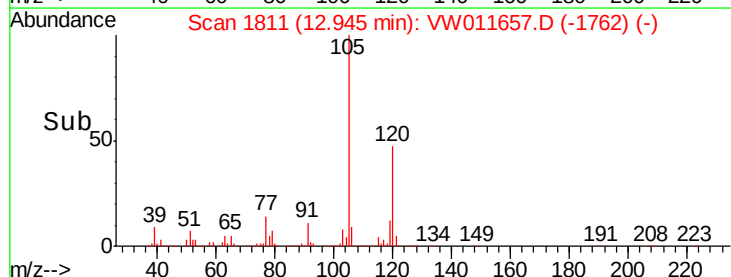
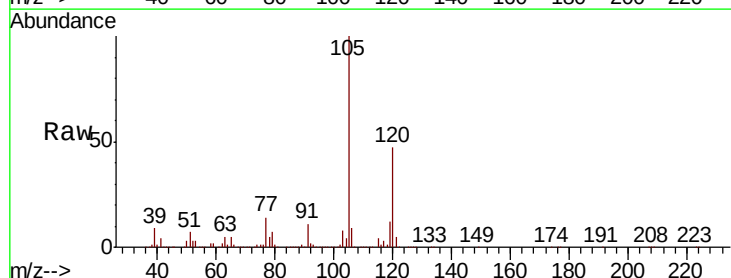
Acq: 03 Aug 2019 11:09

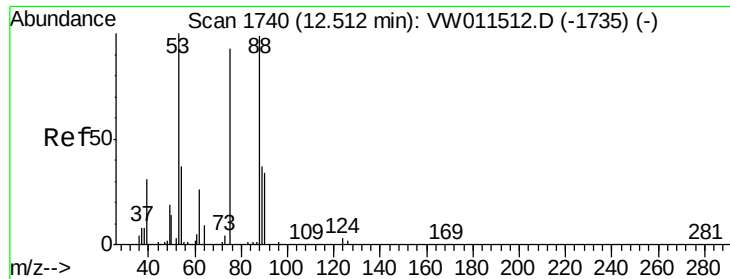
Tgt Ion: 105 Resp: 578988

Ion Ratio Lower Upper

105 100

120 47.1 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 53.817 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

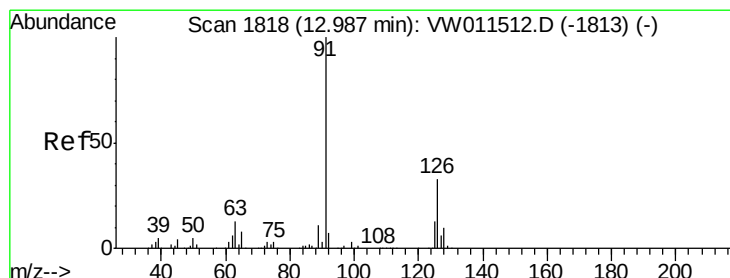
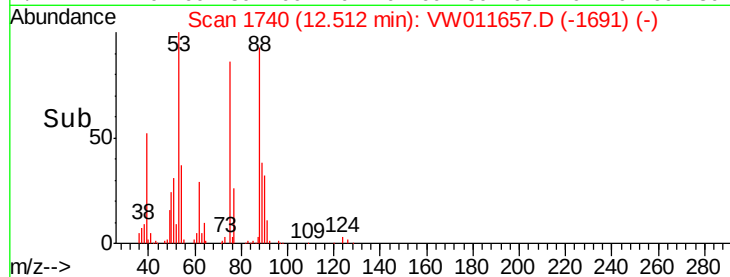
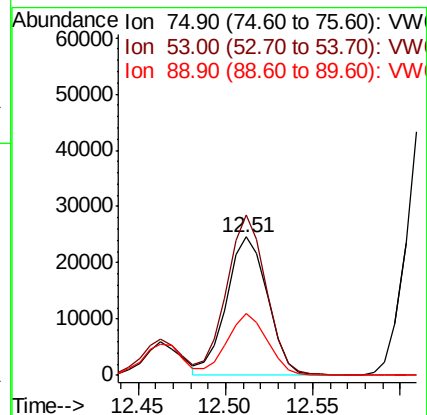
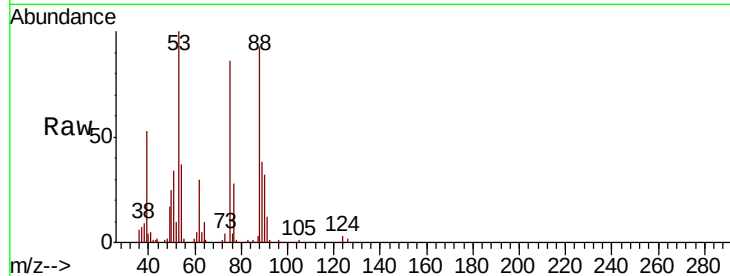
Tgt Ion: 75 Resp: 40544

Ion Ratio Lower Upper

75 100

53 110.9 88.0 132.0

89 42.6 35.3 52.9



#82

4-Chlorotoluene

Concen: 55.394 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW011657.D

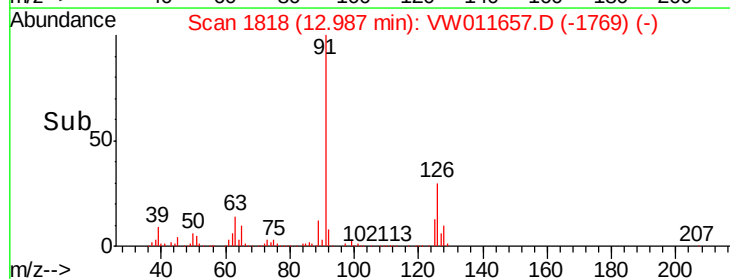
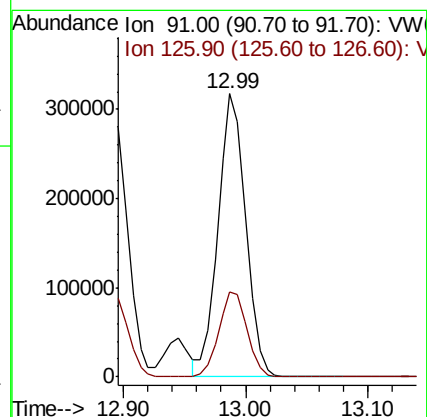
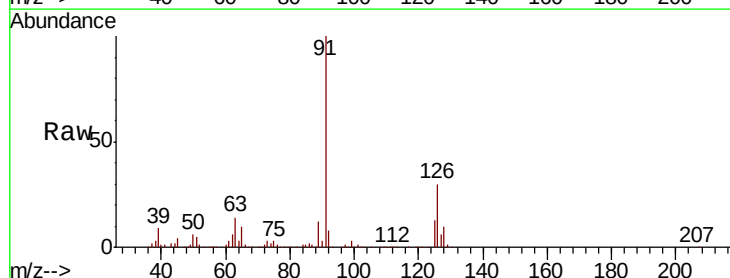
Acq: 03 Aug 2019 11:09

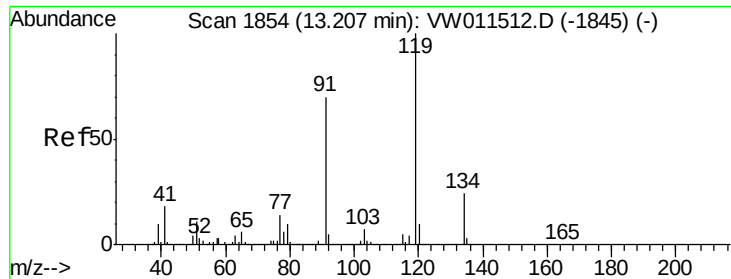
Tgt Ion: 91 Resp: 498824

Ion Ratio Lower Upper

91 100

126 30.6 15.6 46.8

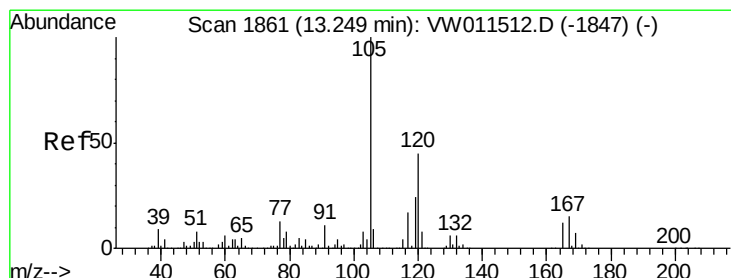
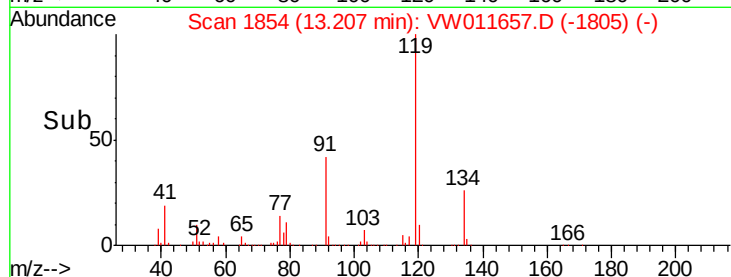
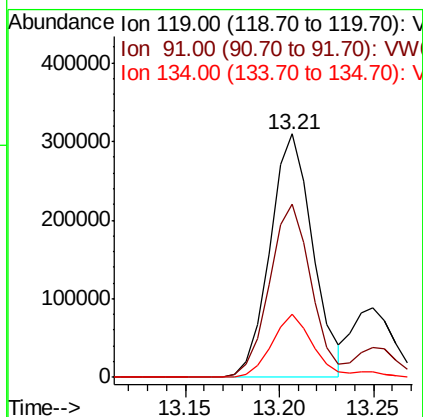
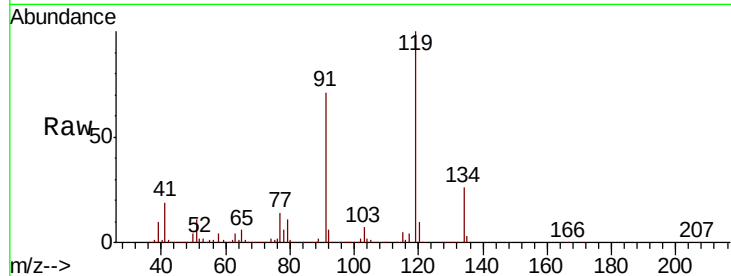




#83  
 tert-Butylbenzene  
 Concen: 56.833 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

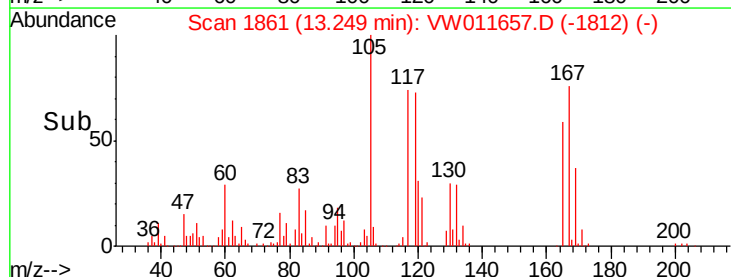
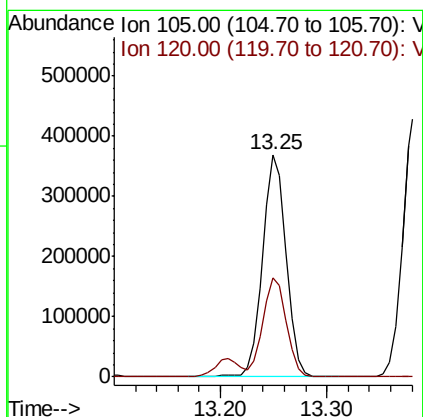
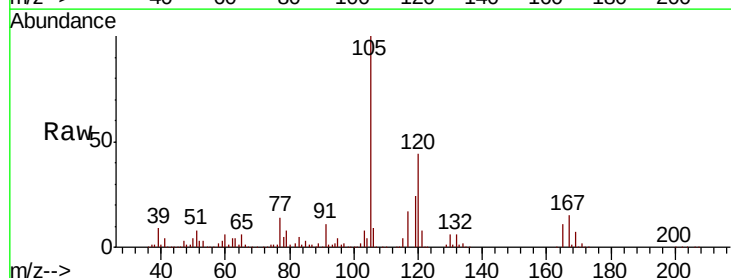
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

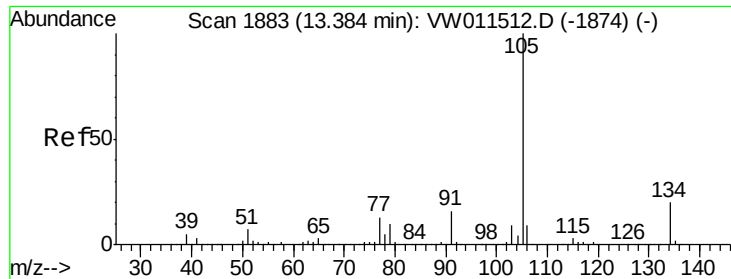
Tgt Ion:119 Resp: 487684  
 Ion Ratio Lower Upper  
 119 100  
 91 69.1 34.5 103.6  
 134 24.8 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 55.412 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion:105 Resp: 572779  
 Ion Ratio Lower Upper  
 105 100  
 120 44.2 22.1 66.5

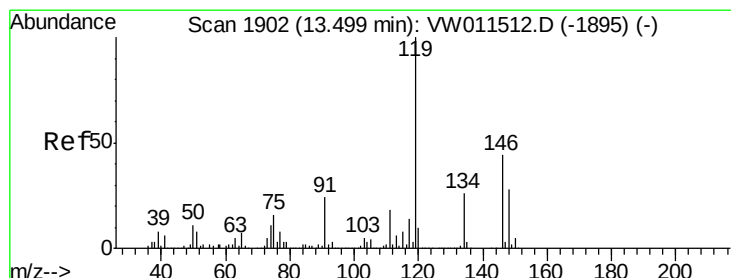
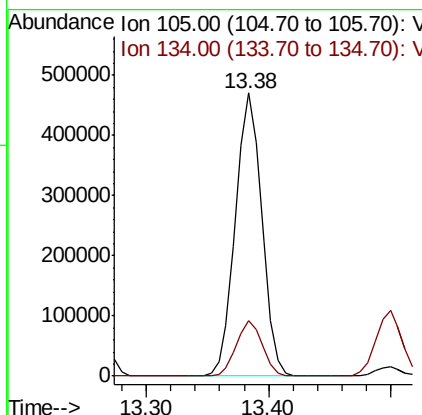
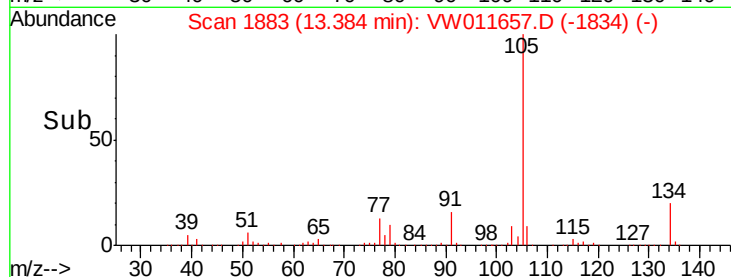
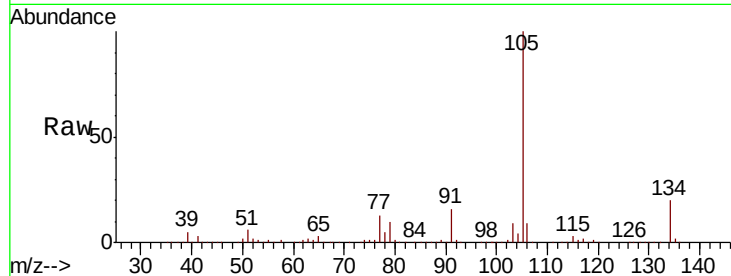




#85  
 sec-Butylbenzene  
 Concen: 57.359 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

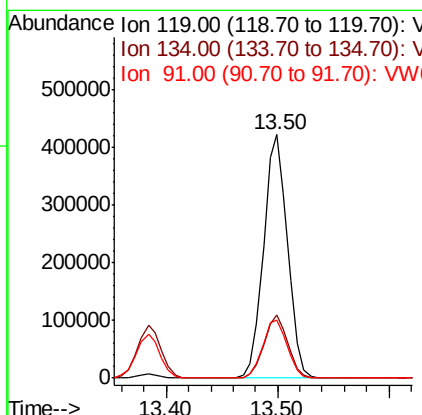
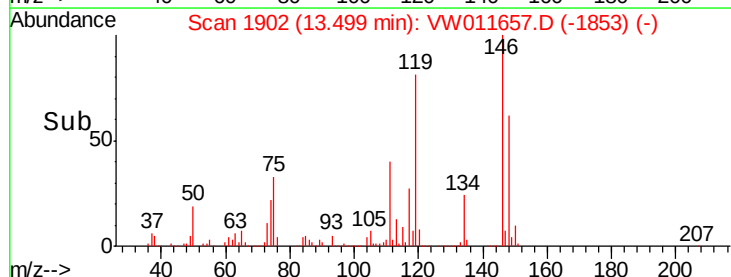
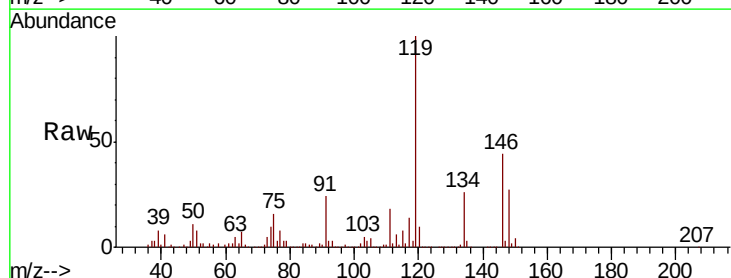
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

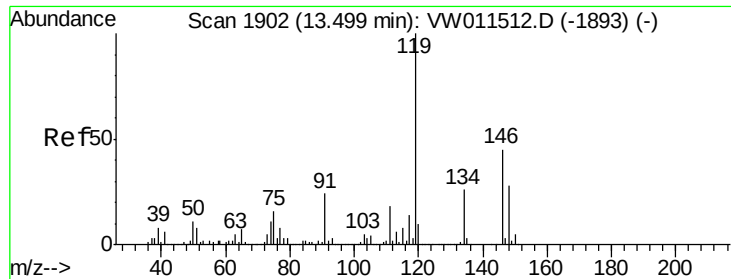
Tgt Ion:105 Resp: 702296  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 9.7 29.1



#86  
 p-Isopropyltoluene  
 Concen: 56.903 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion:119 Resp: 632142  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 12.8 38.4  
 91 24.5 12.1 36.3

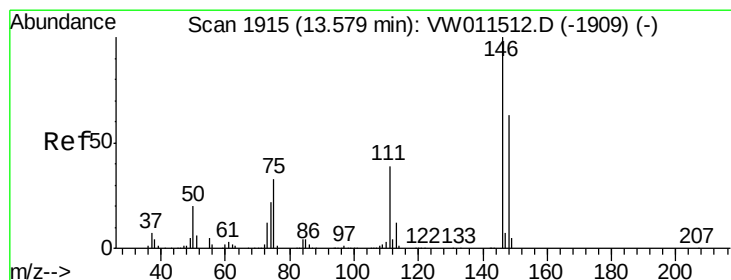
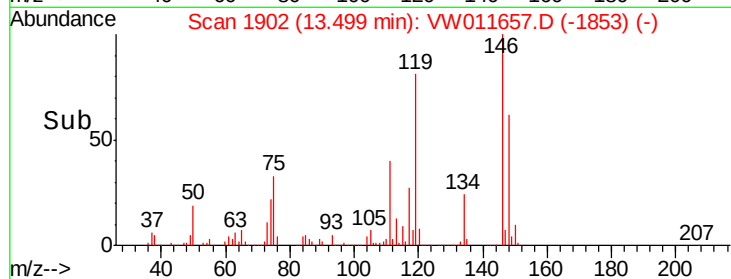
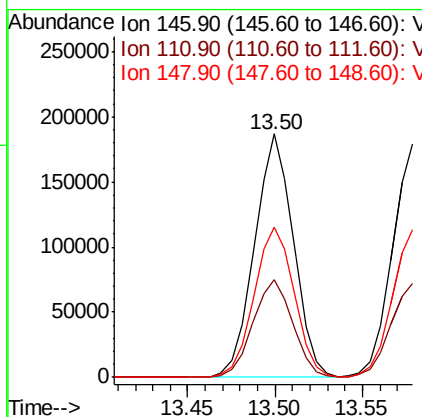
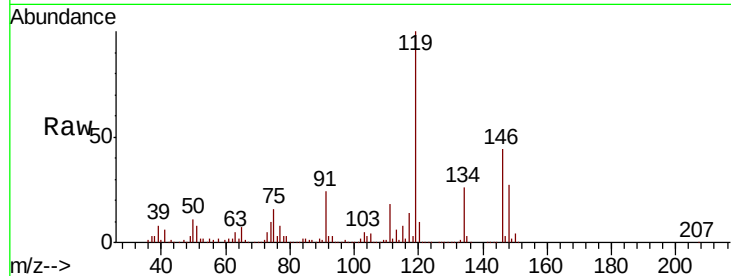




#87  
 1,3-Dichlorobenzene  
 Concen: 54.234 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

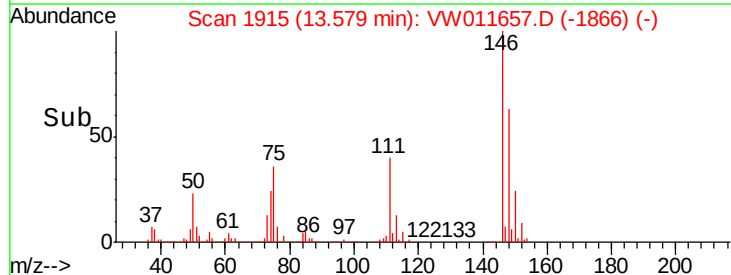
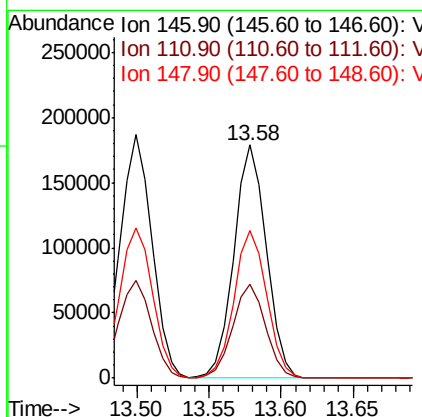
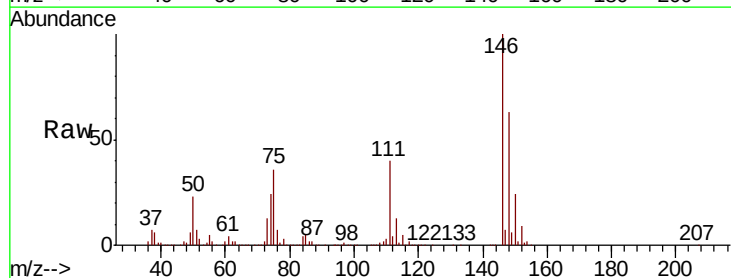
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion:146 Resp: 287728  
 Ion Ratio Lower Upper  
 146 100  
 111 41.1 20.5 61.6  
 148 63.5 31.8 95.3

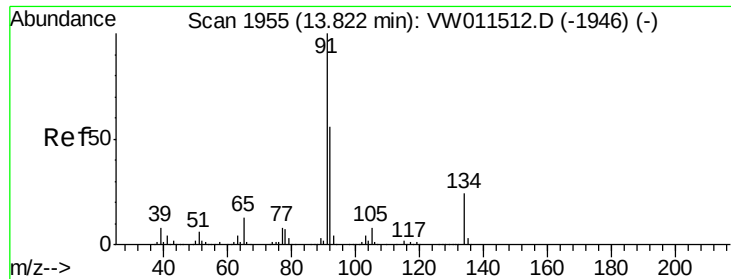


#88  
 1,4-Dichlorobenzene  
 Concen: 53.069 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion:146 Resp: 280074  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 20.1 60.2  
 148 64.1 31.9 95.9







#89

n-Butylbenzene

Concen: 58.153 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

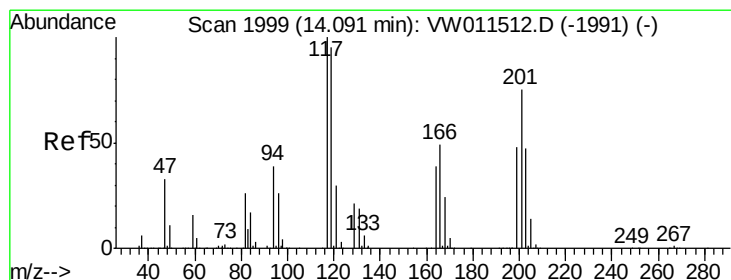
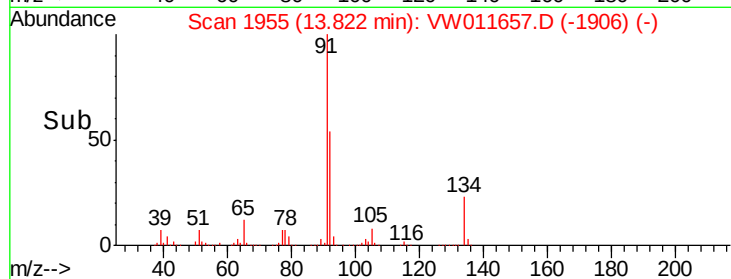
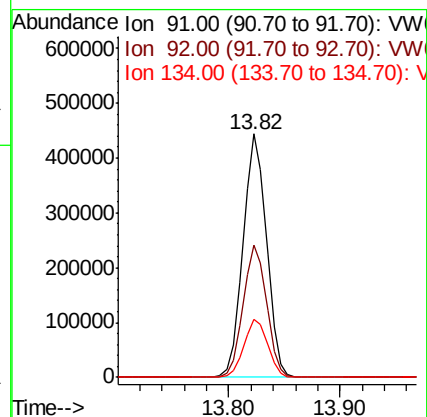
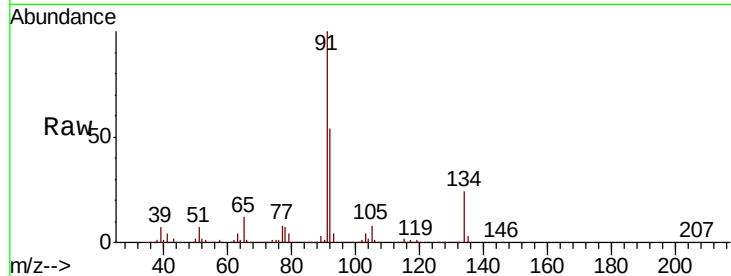
Tgt Ion: 91 Resp: 644696

Ion Ratio Lower Upper

91 100

92 54.5 27.5 82.4

134 24.2 12.2 36.6



#90

Hexachloroethane

Concen: 56.367 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW011657.D

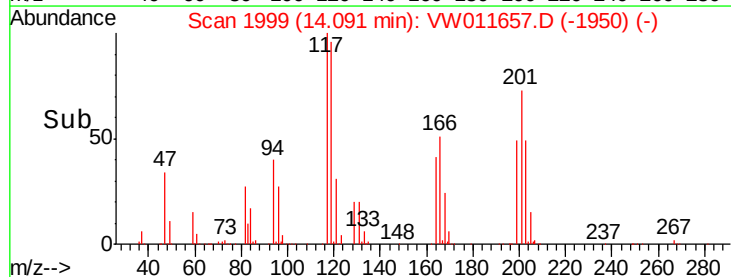
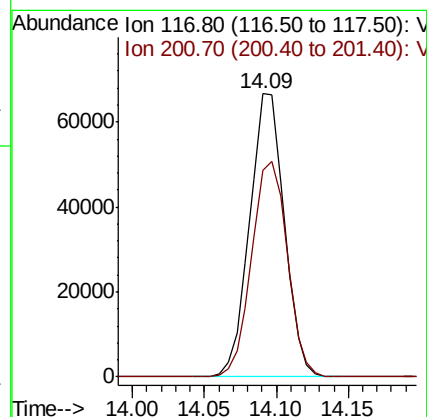
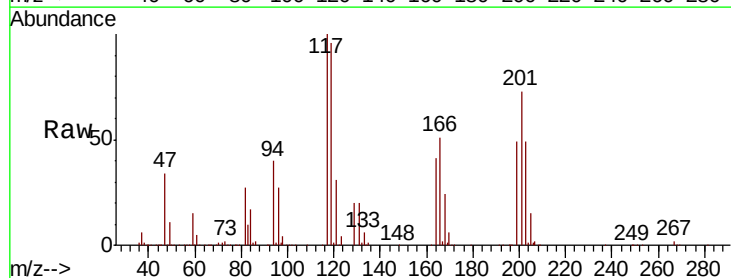
Acq: 03 Aug 2019 11:09

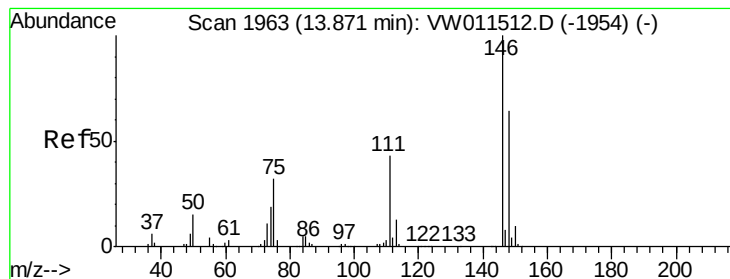
Tgt Ion: 117 Resp: 110727

Ion Ratio Lower Upper

117 100

201 78.3 39.4 118.2





#91

1,2-Dichlorobenzene

Concen: 53.430 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

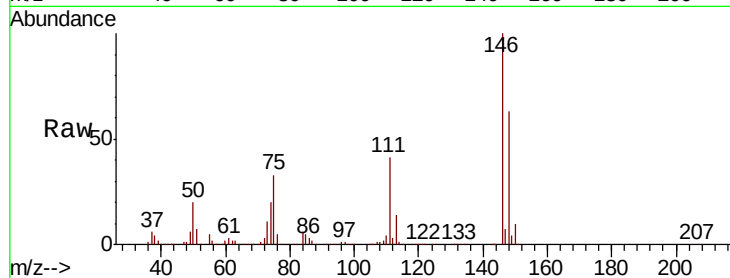
Tgt Ion: 146 Resp: 250710

Ion Ratio Lower Upper

146 100

111 42.8 21.6 65.0

148 63.9 32.0 96.2

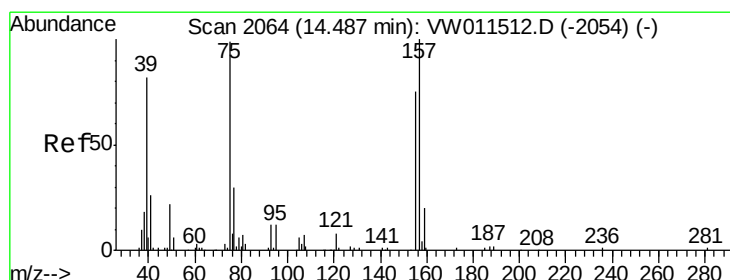
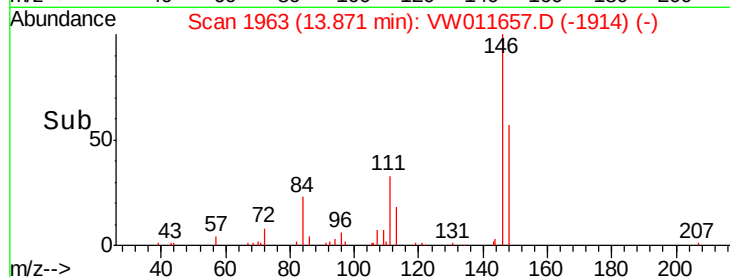
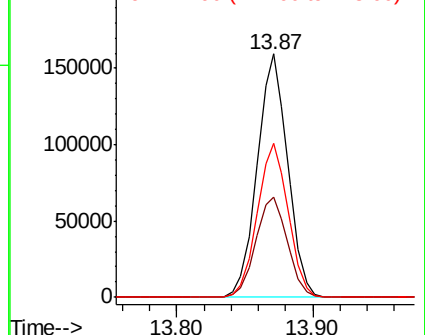


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.468 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW011657.D

Acq: 03 Aug 2019 11:09

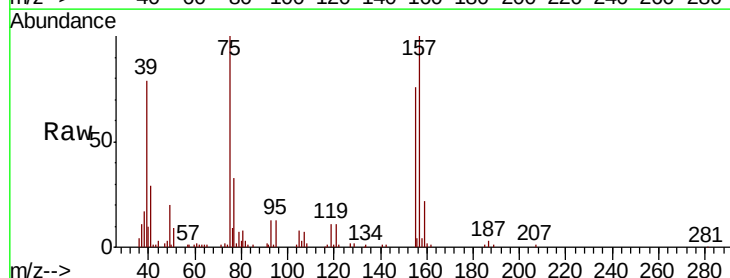
Tgt Ion: 75 Resp: 20209

Ion Ratio Lower Upper

75 100

155 73.8 38.2 114.6

157 97.9 48.9 146.7

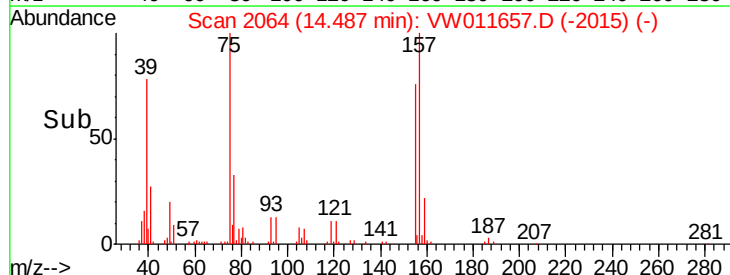
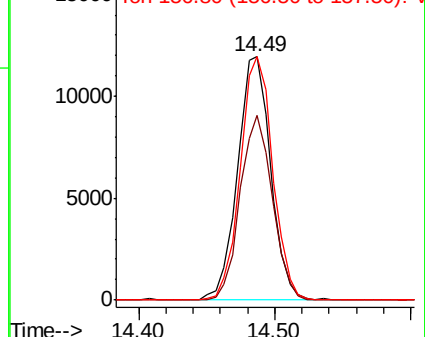


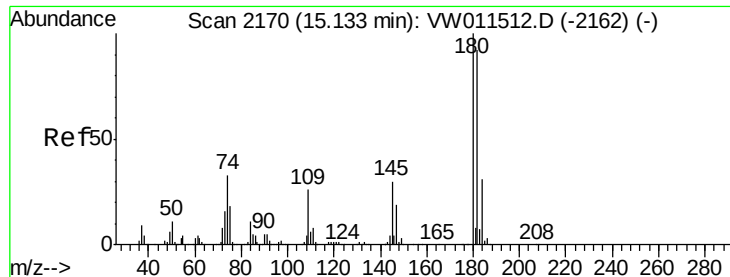
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

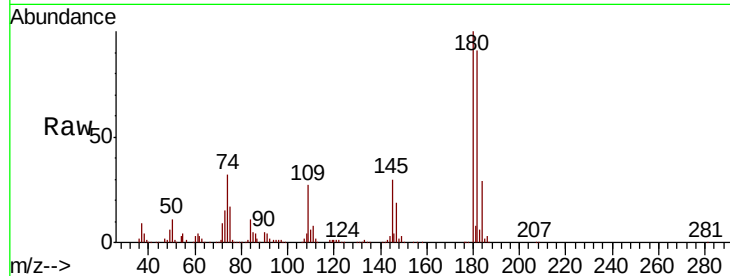




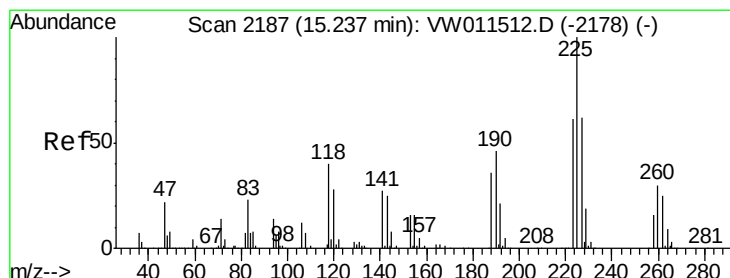
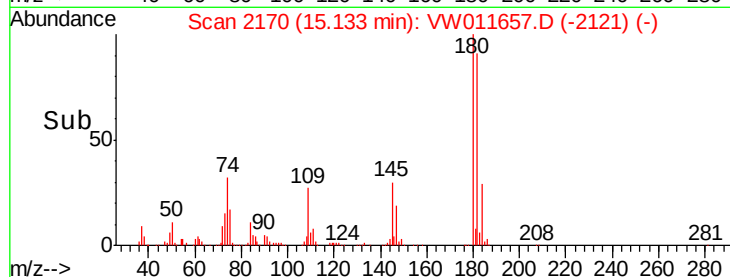
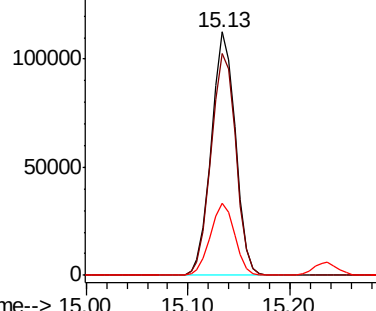
#93  
 1,2,4-Trichlorobenzene  
 Concen: 55.589 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion:180 Resp: 183832  
 Ion Ratio Lower Upper  
 180 100  
 182 94.0 47.4 142.2  
 145 30.0 15.4 46.1

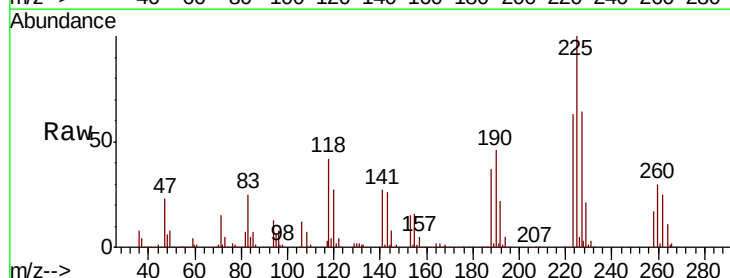


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

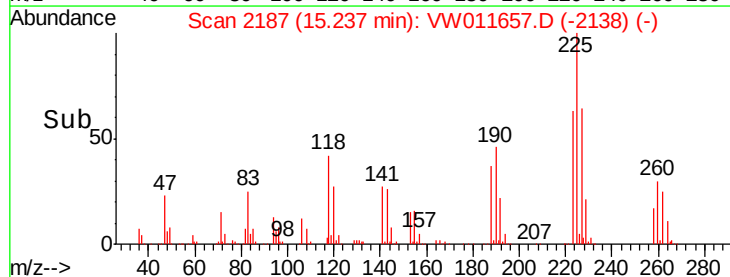
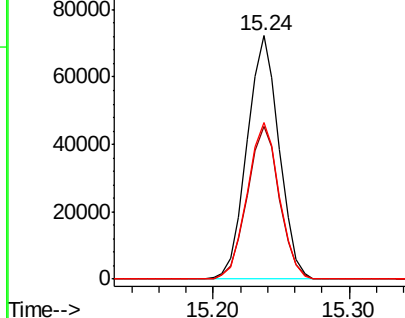


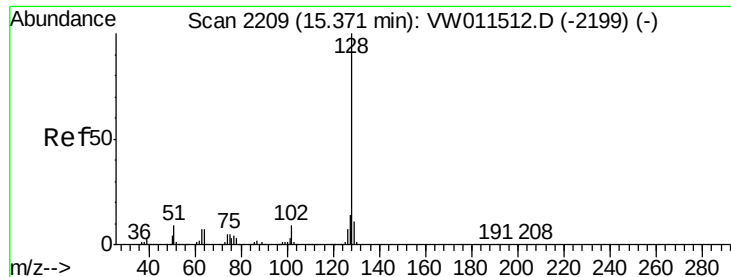
#94  
 Hexachlorobutadiene  
 Concen: 57.701 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW011657.D  
 Acq: 03 Aug 2019 11:09

Tgt Ion:225 Resp: 118996  
 Ion Ratio Lower Upper  
 225 100  
 223 63.3 30.8 92.3  
 227 64.4 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

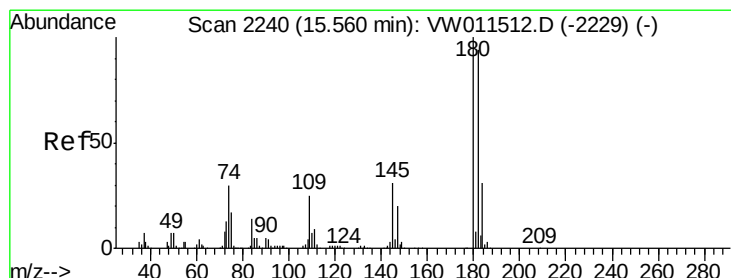
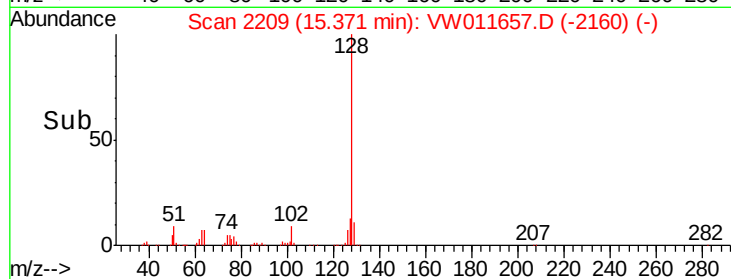
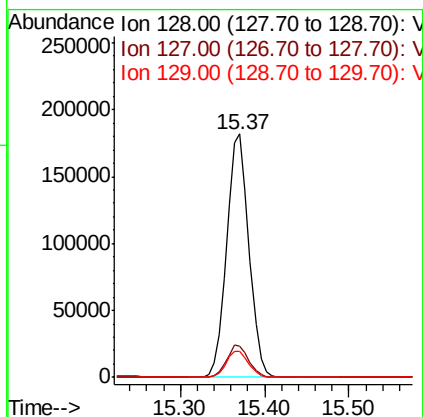
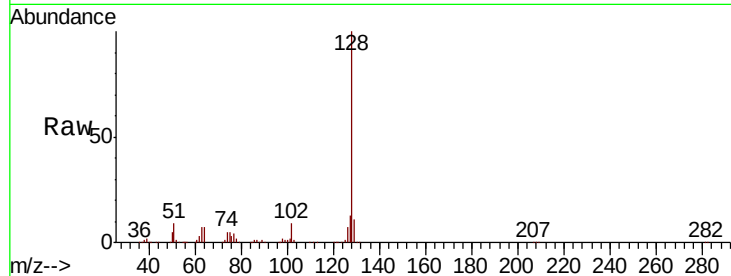




#95  
Naphthalene  
Concen: 50.461 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:128 Resp: 327011  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 16.0  
129 10.9 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 54.734 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW011657.D  
Acq: 03 Aug 2019 11:09

Tgt Ion:180 Resp: 158660  
Ion Ratio Lower Upper  
180 100  
182 96.1 47.4 142.2  
145 31.7 15.9 47.7

