

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
 Data File : VW012637.D  
 Acq On : 05 Sep 2019 13:32  
 Operator : SY/VA  
 Sample : VW0905SBS03  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 05 15:47:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 260620   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 393138   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 342270   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 167507   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 136006   | 43.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.80% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 111052   | 47.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.64% |          |
| 50) Toluene-d8              | 10.32 | 98   | 437981   | 46.03 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.06% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 157681   | 47.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.02% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 38909    | 24.246  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50   | 47764    | 19.212  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62   | 57037    | 18.744  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94   | 28275    | 18.347  | ug/l   | 95     |
| 6) Chloroethane               | 2.90 | 64   | 30067    | 17.515  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.24 | 101  | 33880    | 22.173  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74   | 26796    | 18.476  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 58130    | 22.381  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.26 | 142  | 71664    | 20.393  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59   | 19898    | 106.724 | ug/l # | 82     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 53595    | 20.502  | ug/l   | 99     |
| 13) Acrolein                  | 3.90 | 56   | 9611     | 54.762  | ug/l   | 88     |
| 14) Allyl chloride            | 4.66 | 41   | 114634   | 20.512  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 76505    | 106.423 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43   | 77727    | 98.147  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.38 | 76   | 120659   | 15.272  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.67 | 43   | 41555    | 21.185  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 97418    | 23.044  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.92 | 84   | 62647    | 20.925  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 57803    | 20.620  | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.31 | 45   | 226975   | 21.911  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43   | 676885   | 106.176 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 121570   | 21.554  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 106145   | 98.633  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 75032    | 23.503  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 66151    | 22.087  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 47264    | 19.226  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 68615    | 106.272 | ug/l   | 99     |
| 30) Chloroform                | 7.67 | 83   | 117678   | 22.804  | ug/l   | 97     |
| 31) Cyclohexane               | 7.95 | 56   | 111055   | 19.901  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 95137    | 23.305  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 91919    | 22.626  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.25 | 43   | 49548    | 22.256  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 85579    | 24.338  | ug/l   | 96     |

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 Acq On : 05 Sep 2019 13:32  
 Operator : SY/VA  
 Sample : VW0905SBS03  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 05 15:47:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 101626   | 22.267  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 250274   | 22.561  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 31768    | 24.279  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 80679    | 23.205  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 92629    | 22.462  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 63357    | 23.494  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 66269    | 22.197  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 30834    | 23.212  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 82477    | 23.329  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 43037    | 21.928  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 8761     | 430.821 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 238242   | 113.586 | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 152547   | 22.890  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 84354    | 23.424  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 98729    | 22.706  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 44543    | 23.700  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 62467    | 22.837  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 82341    | 23.184  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 153278   | 109.184 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 164317   | 110.719 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 49471    | 23.632  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 40973    | 23.401  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 51028    | 22.996  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 156954   | 23.288  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 56737    | 24.131  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 302855   | 23.328  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 217781   | 46.569  | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 102489   | 23.679  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 179328   | 23.937  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 28650    | 24.457  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 296221   | 23.600  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 82496    | 21.754  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 51412    | 22.343  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 68678    | 42.098  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 64785    | 23.858  | ug/l   | 93       |
| 78) n-propylbenzene            | 12.80 | 91   | 354973   | 23.166  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 201941   | 23.213  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 247673   | 23.615  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 16393    | 22.032  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 212169   | 23.292  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 216002   | 24.313  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 245011   | 23.256  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 301058   | 23.653  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 270683   | 23.813  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 123940   | 23.336  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 125254   | 23.751  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 266675   | 23.591  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 44948    | 22.538  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 110778   | 23.776  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 8905     | 22.956  | ug/l   | 97       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
Data File : VW012637.D  
Acq On : 05 Sep 2019 13:32  
Operator : SY/VA  
Sample : VW0905SBS03  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

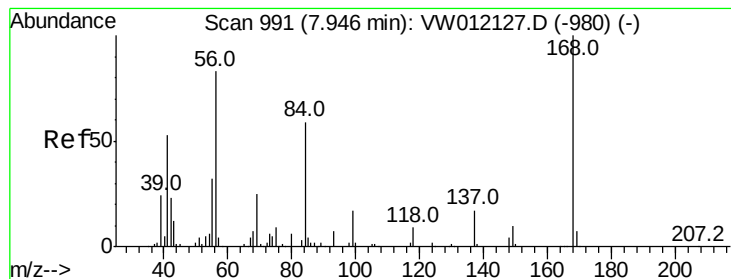
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 05 15:47:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 77408    | 24.041 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.23 | 225  | 52889    | 24.876 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 133578   | 23.636 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 66391    | 23.633 | 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: VW012637.D

Acq: 05 Sep 2019 13:32

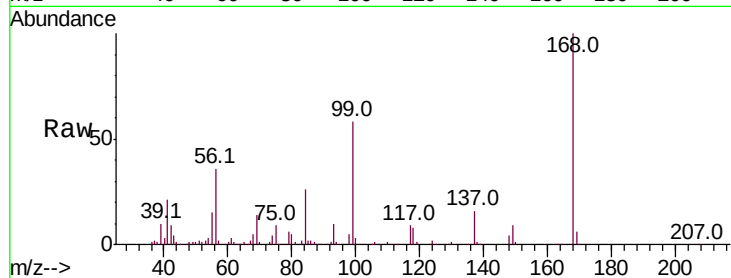
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 260620

Ion Ratio Lower Upper

168 100

99 58.3 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

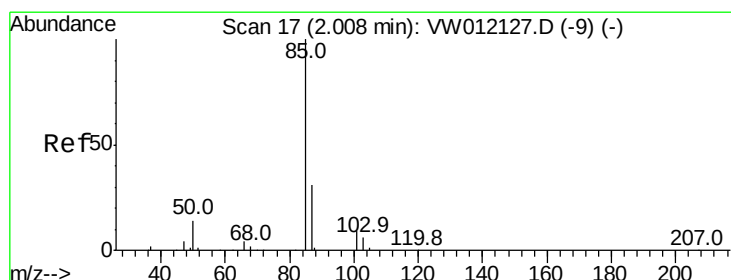
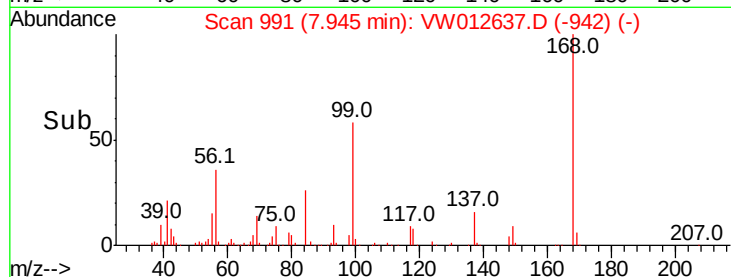
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 24.246 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012637.D

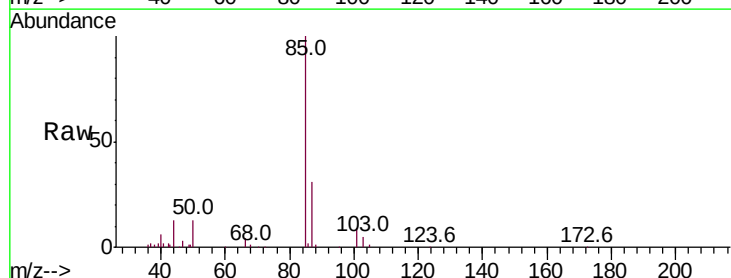
Acq: 05 Sep 2019 13:32

Tgt Ion: 85 Resp: 38909

Ion Ratio Lower Upper

85 100

87 30.5 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

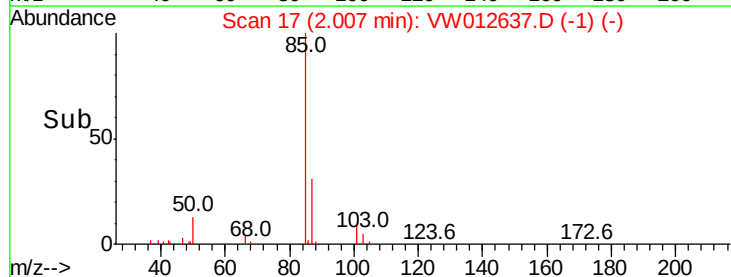
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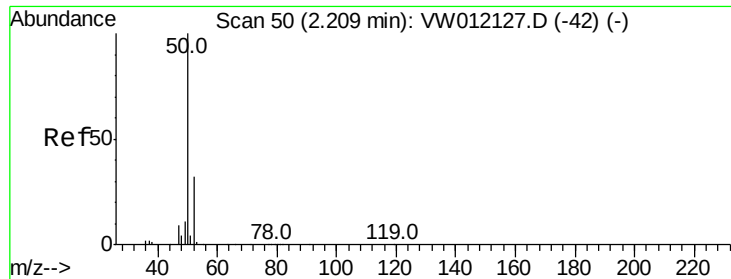
10000

5000

0

Time--> 1.90 2.00 2.10

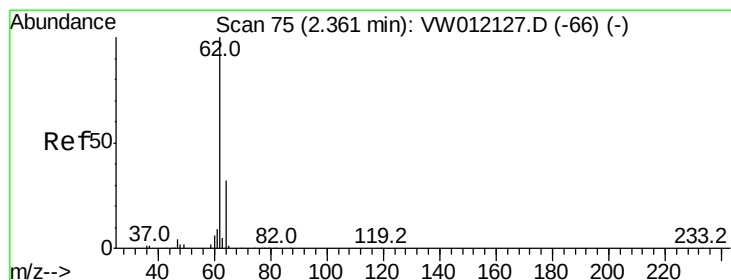
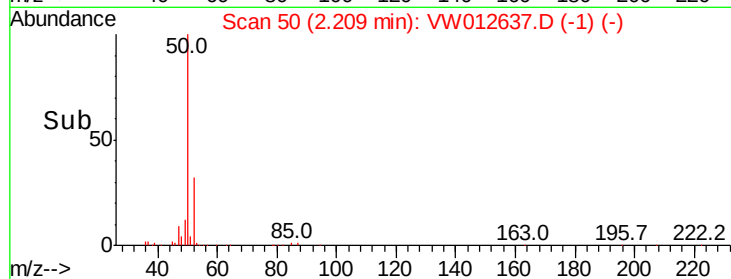
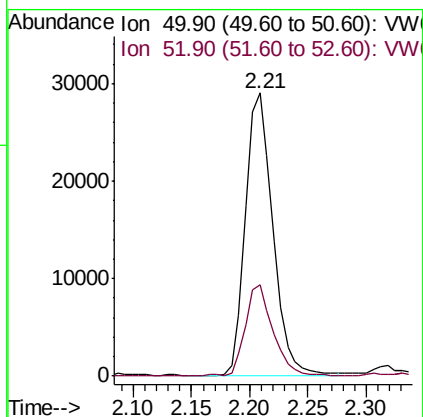
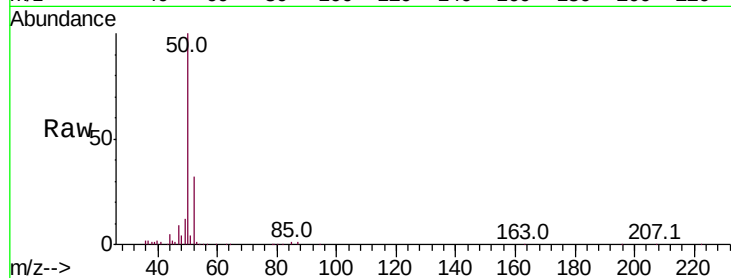




#3  
Chloromethane  
Concen: 19.212 ug/l  
RT: 2.21 min Scan# 50  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

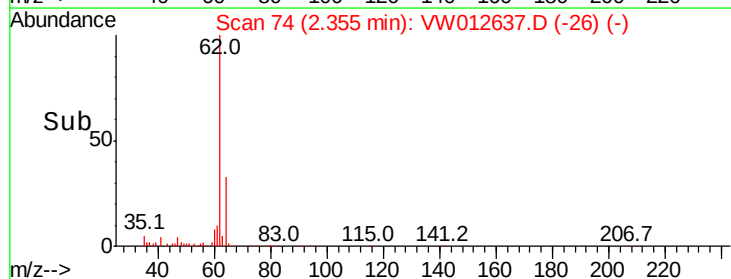
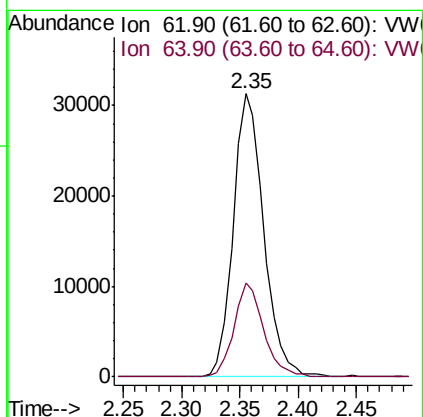
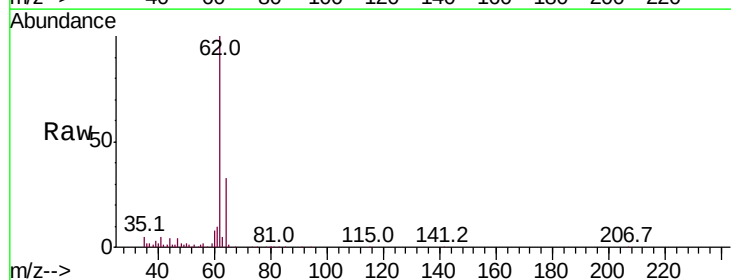
Instrument :  
MSVOA\_W  
ClientSampleId :

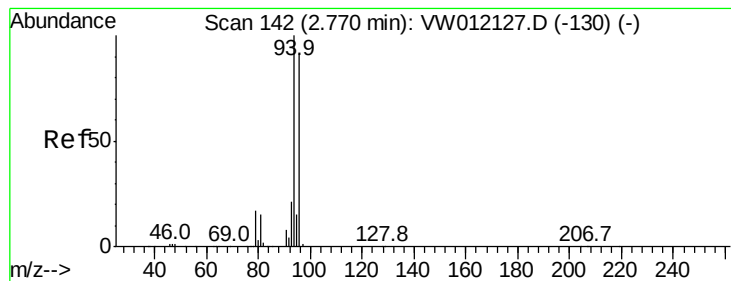
Tot Ion: 50 Resp: 47764  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.5 38.3



#4  
Vinyl Chloride  
Concen: 18.744 ug/l  
RT: 2.35 min Scan# 74  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 62 Resp: 57037  
Ion Ratio Lower Upper  
62 100  
64 33.2 25.3 37.9





#5

Bromomethane

Concen: 18.347 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

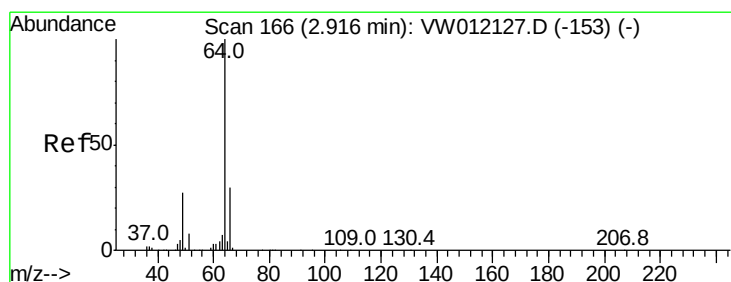
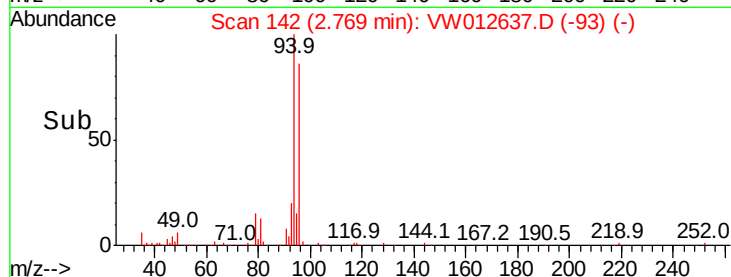
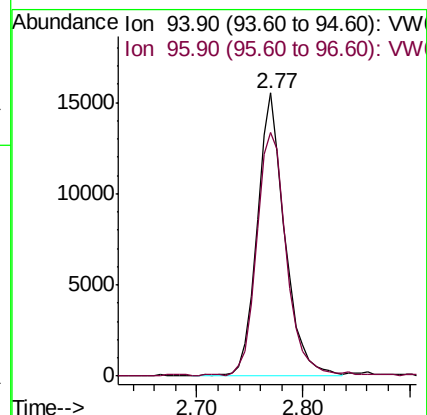
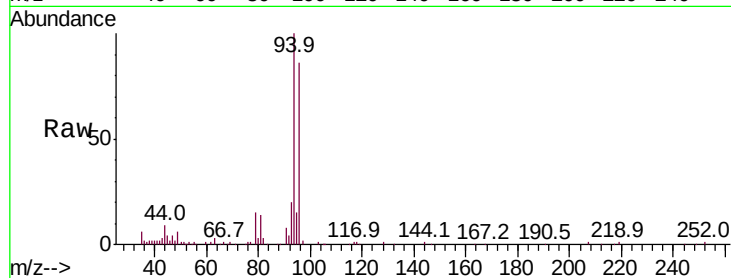
ClientSampleId :

Tot Ion: 94 Resp: 28275

Ion Ratio Lower Upper

94 100

96 86.0 72.9 109.3



#6

Chloroethane

Concen: 17.515 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW012637.D

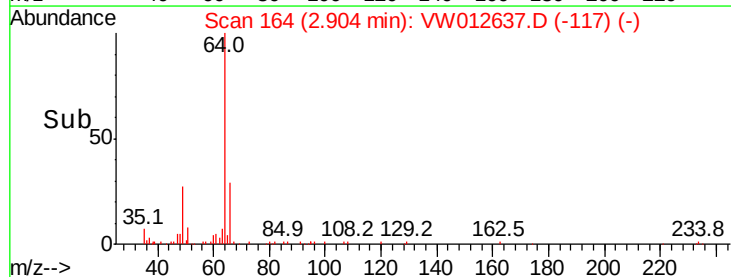
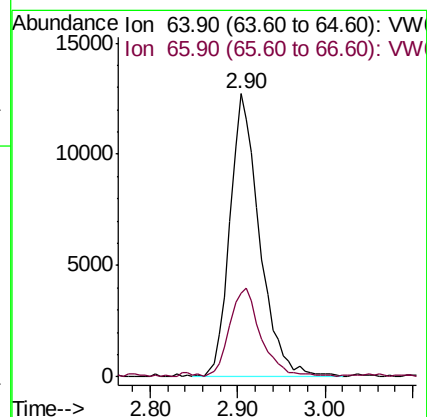
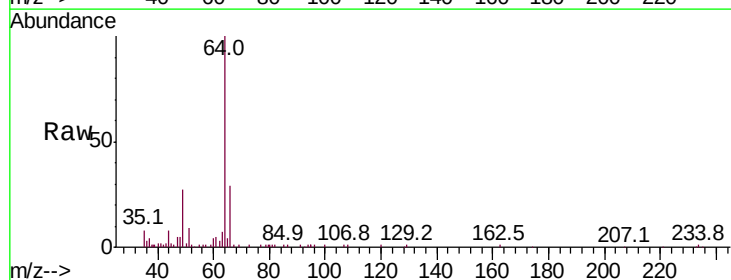
Acq: 05 Sep 2019 13:32

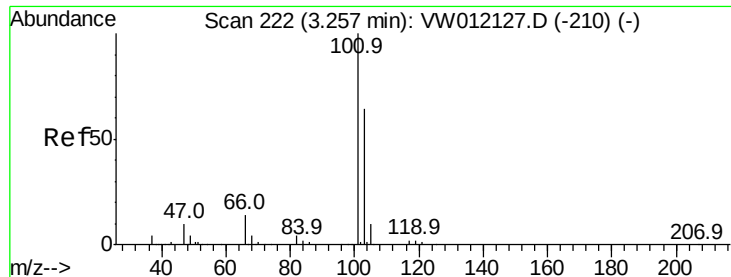
Tgt Ion: 64 Resp: 30067

Ion Ratio Lower Upper

64 100

66 28.7 23.8 35.8



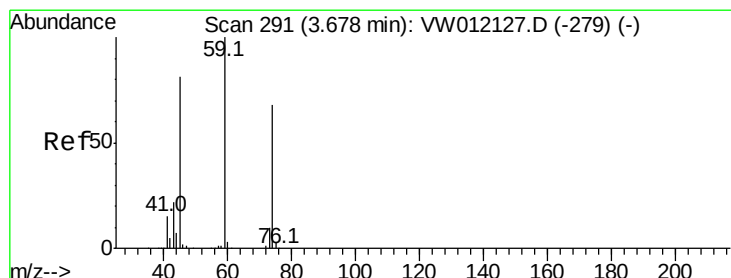
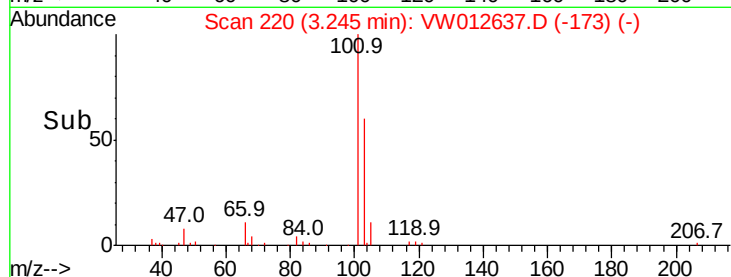
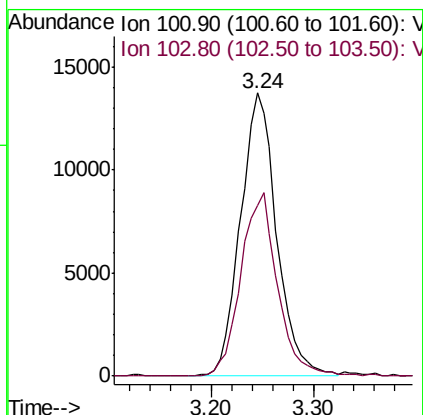
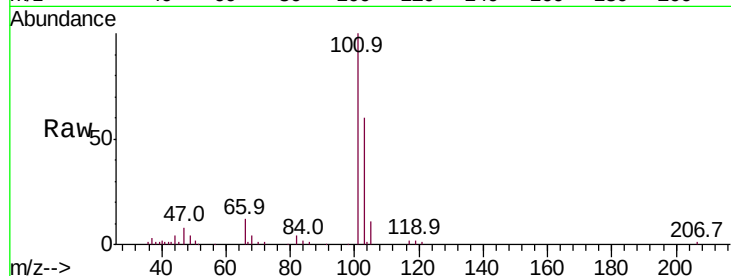


#7

Trichlorofluoromethane  
 Concen: 22.173 ug/l  
 RT: 3.24 min Scan# 220  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Instrument :  
 MSVOA\_W  
 ClientSampled :

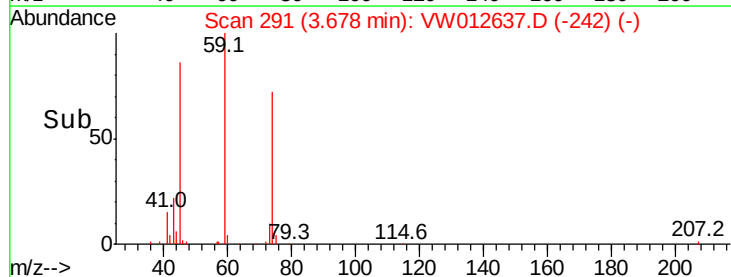
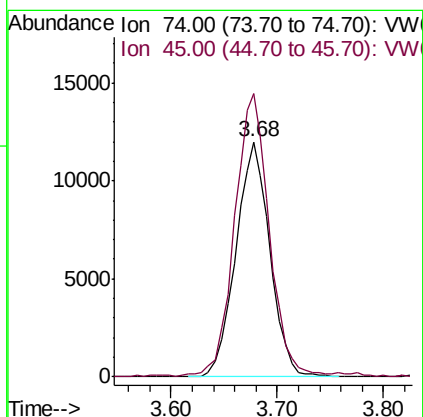
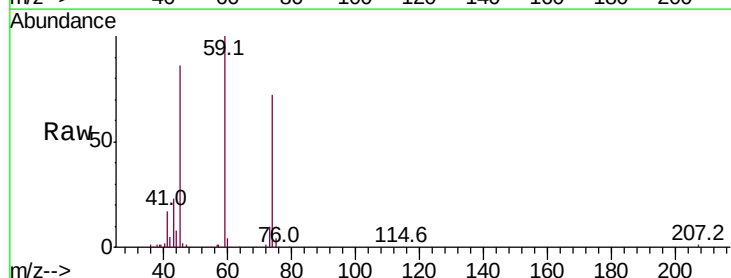
Tot Ion:101 Resp: 33880  
 Ion Ratio Lower Upper  
 101 100  
 103 60.2 51.2 76.8



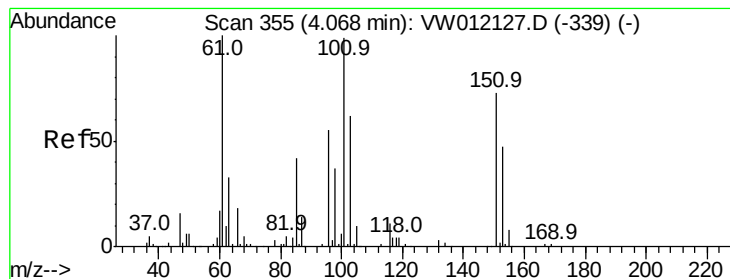
#8

Diethyl Ether  
 Concen: 18.476 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 74 Resp: 26796  
 Ion Ratio Lower Upper  
 74 100  
 45 121.4 59.2 177.6







#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.381 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampleId :

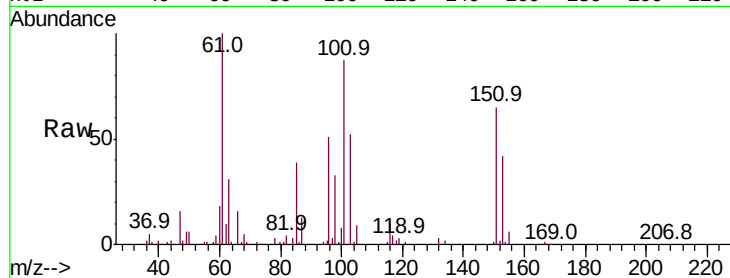
Tot Ion:101 Resp: 58130

Ion Ratio Lower Upper

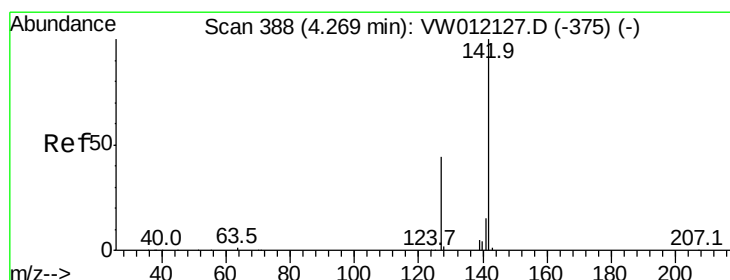
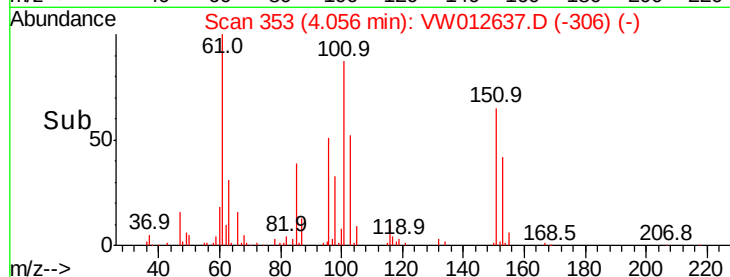
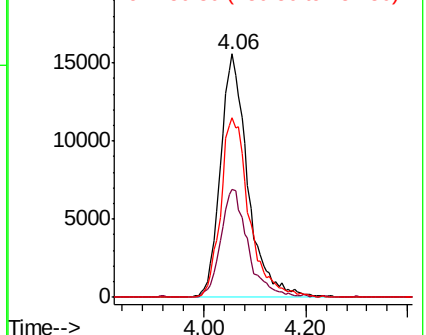
101 100

85 44.0 35.8 53.6

151 76.7 58.6 87.8



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.393 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

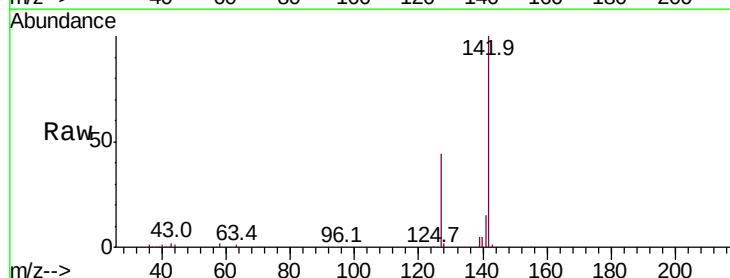
Tgt Ion:142 Resp: 71664

Ion Ratio Lower Upper

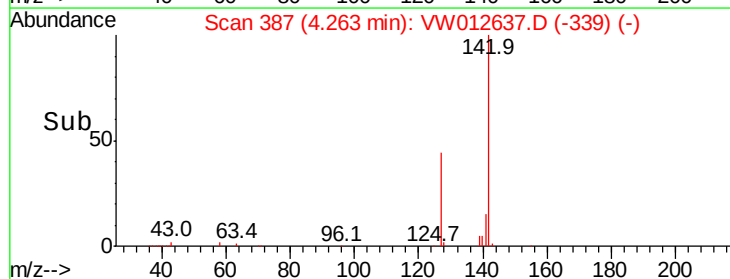
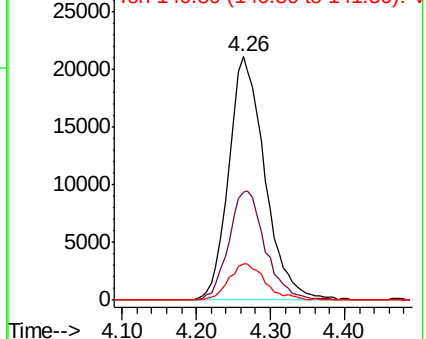
142 100

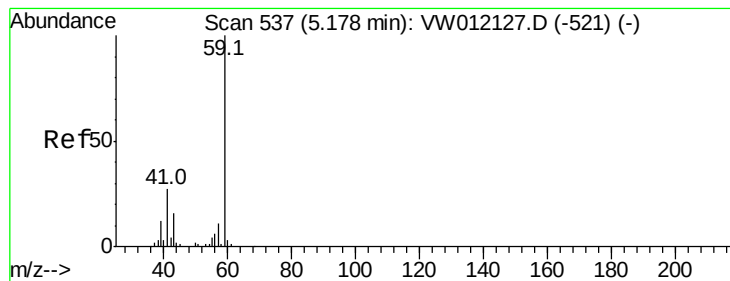
127 45.2 35.5 53.3

141 15.3 11.8 17.8



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



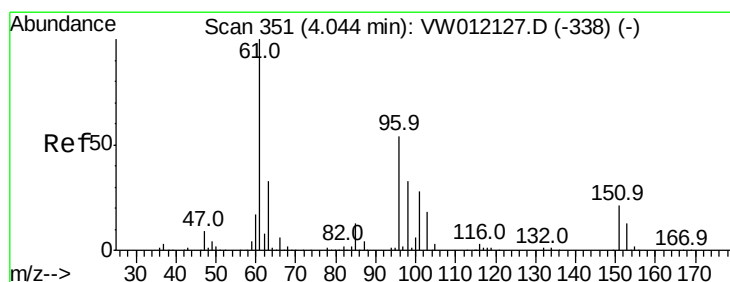
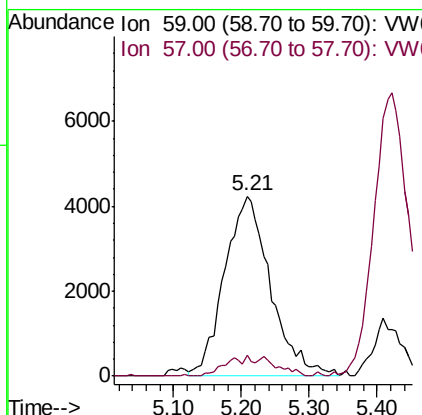
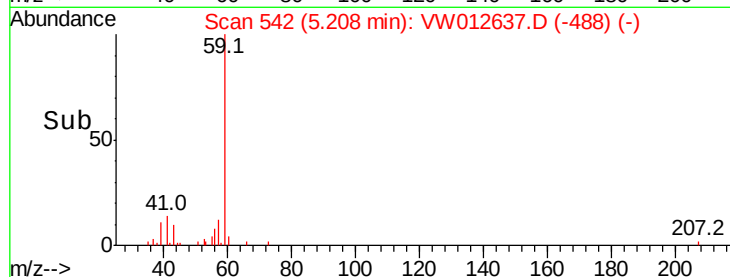
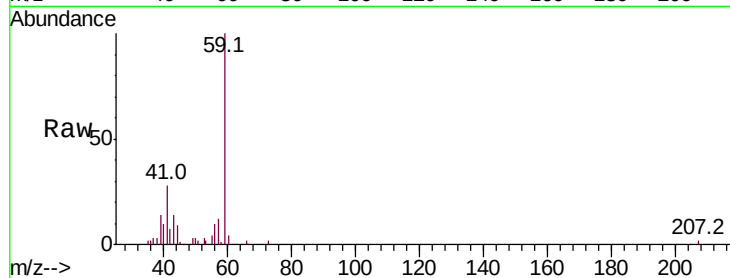


#11

Tert butyl alcohol  
Concen: 106.724 ug/l  
RT: 5.21 min Scan# 542  
Delta R.T. 0.03 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :

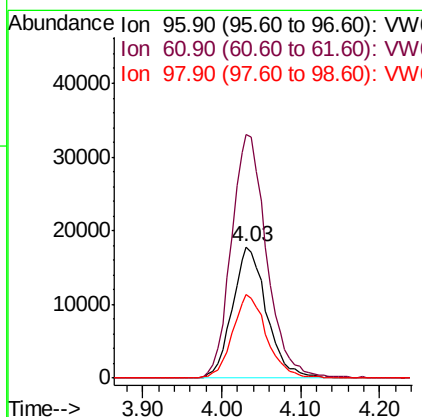
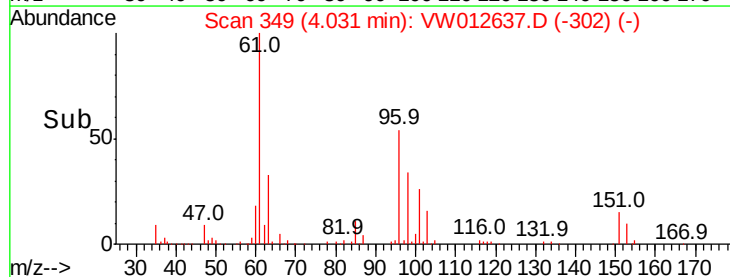
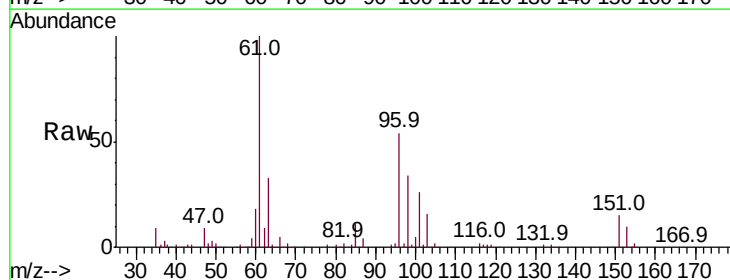
Tot Ion: 59 Resp: 19898  
Ion Ratio Lower Upper  
59 100  
57 4.4 9.0 13.4#

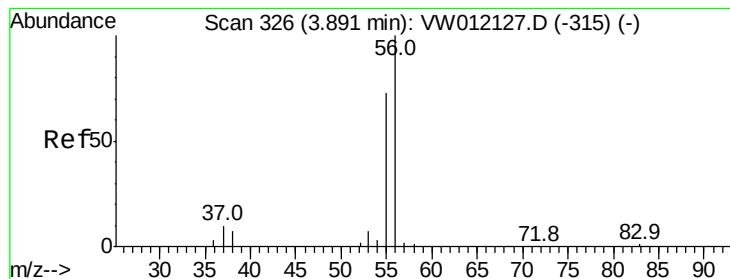


#12

1,1-Dichloroethene  
Concen: 20.502 ug/l  
RT: 4.03 min Scan# 349  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 96 Resp: 53595  
Ion Ratio Lower Upper  
96 100  
61 185.2 149.1 223.7  
98 63.8 49.4 74.2





#13

Acrolein

Concen: 54.762 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

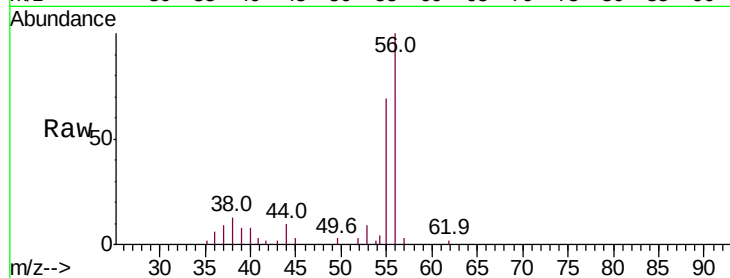
ClientSampleId :

Tot Ion: 56 Resp: 9611

Ion Ratio Lower Upper

56 100

55 79.6 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.90

4000

3000

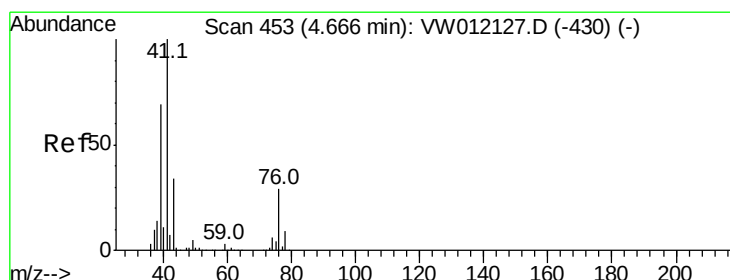
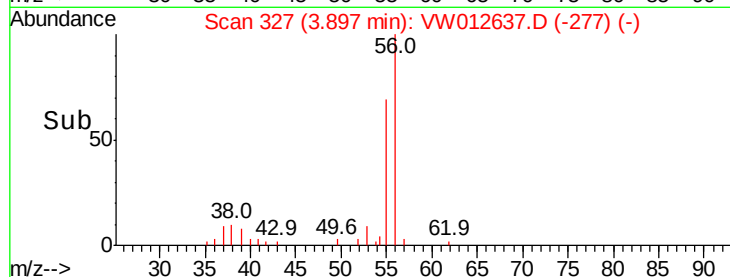
2000

1000

0

Time-->

3.80 3.85 3.90 3.95 4.00



#14

Allyl chloride

Concen: 20.512 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

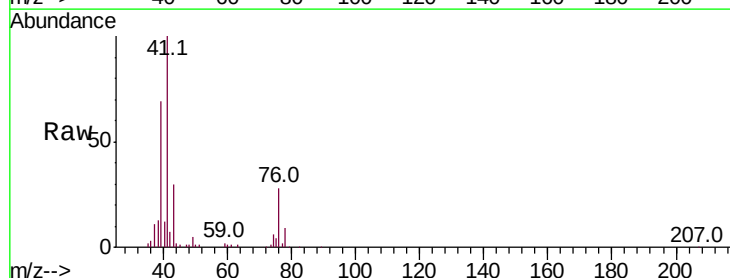
Tgt Ion: 41 Resp: 114634

Ion Ratio Lower Upper

41 100

39 68.0 53.4 80.2

76 27.1 22.1 33.1



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.66

50000

40000

30000

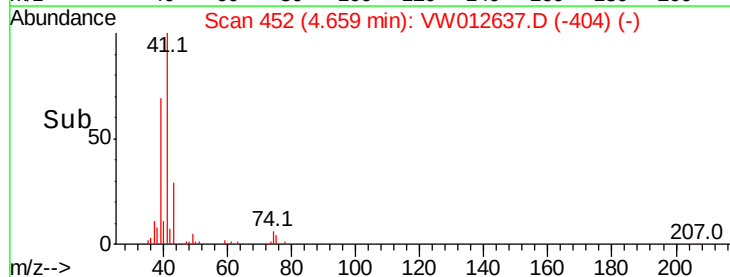
20000

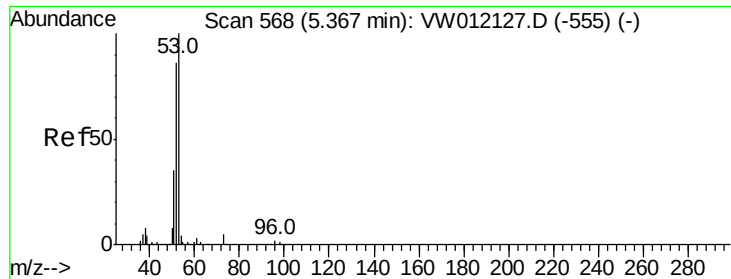
10000

0

Time-->

4.50 4.60 4.70 4.80





#15

Acrylonitrile

Concen: 106.423 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampleId :

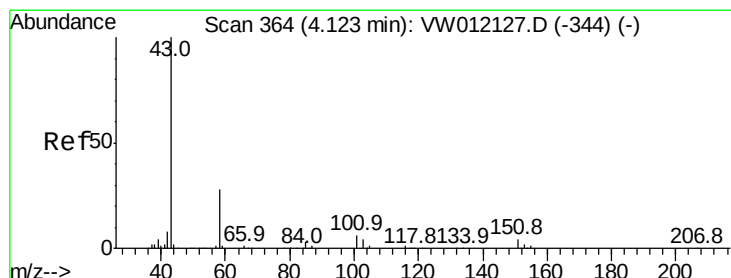
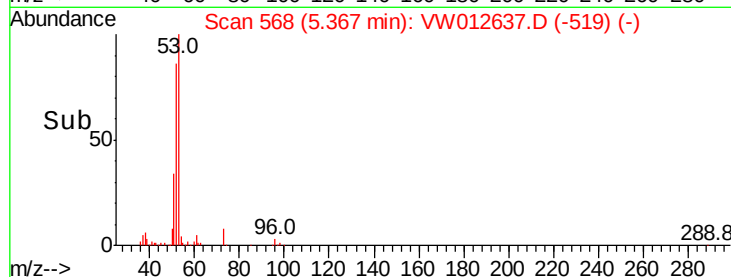
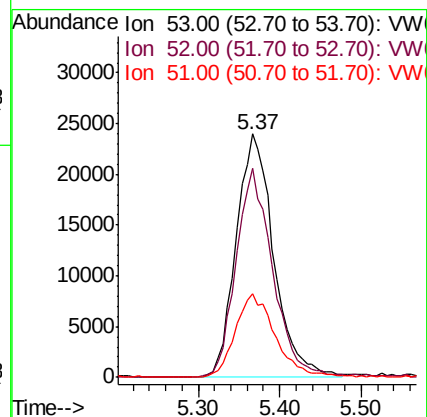
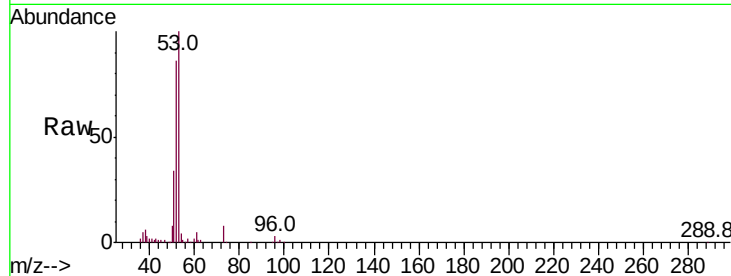
Tot Ion: 53 Resp: 76505

Ion Ratio Lower Upper

53 100

52 84.2 66.7 100.1

51 36.5 30.1 45.1



#16

Acetone

Concen: 98.147 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012637.D

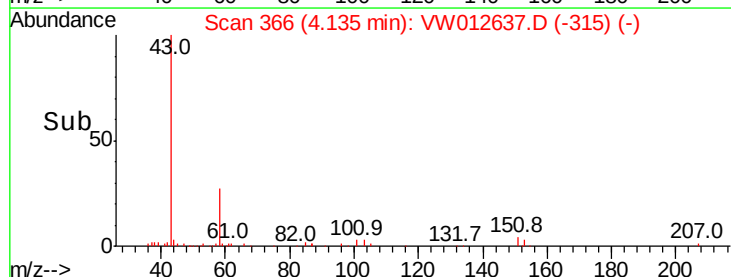
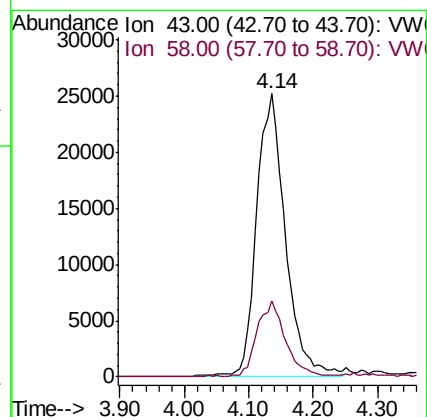
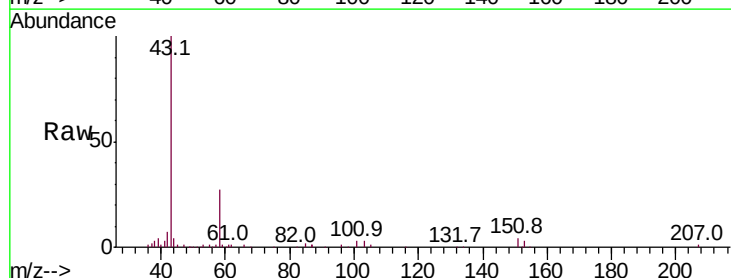
Acq: 05 Sep 2019 13:32

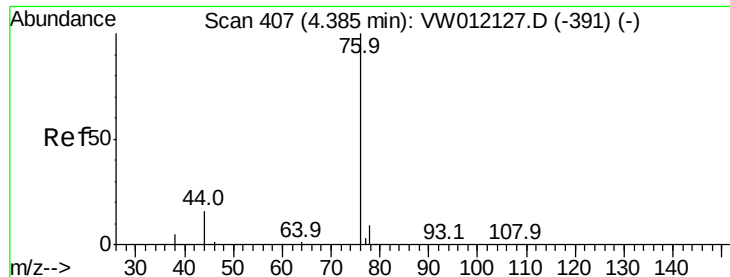
Tgt Ion: 43 Resp: 77727

Ion Ratio Lower Upper

43 100

58 26.4 22.4 33.6

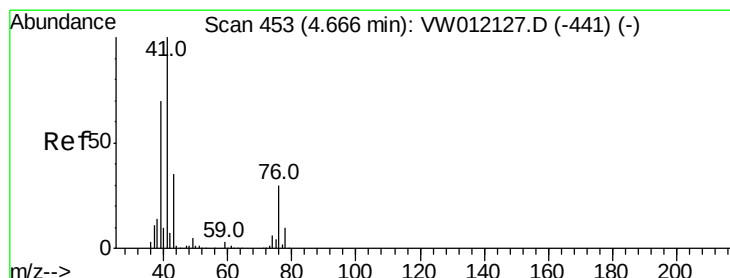
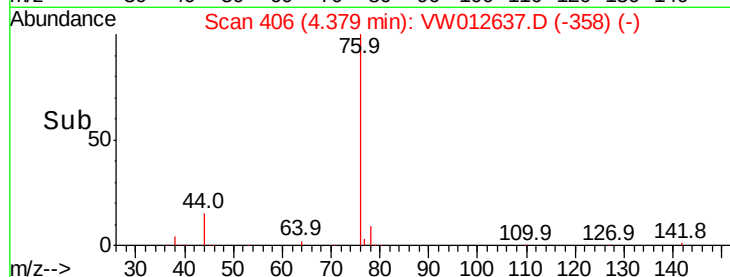
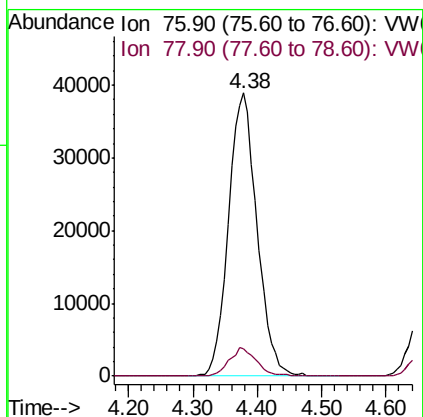
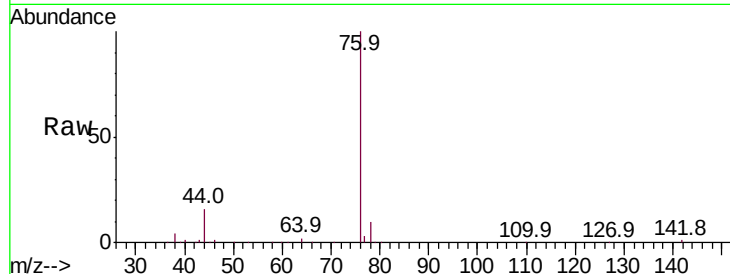




#17  
Carbon Disulfide  
Concen: 15.272 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

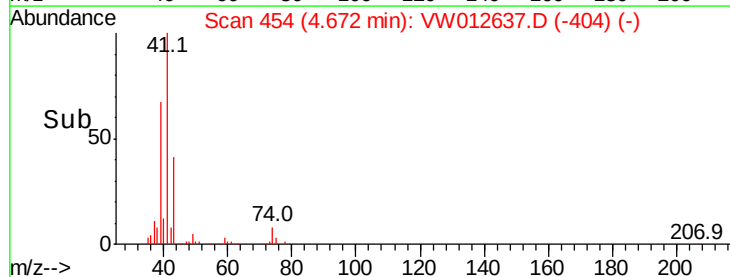
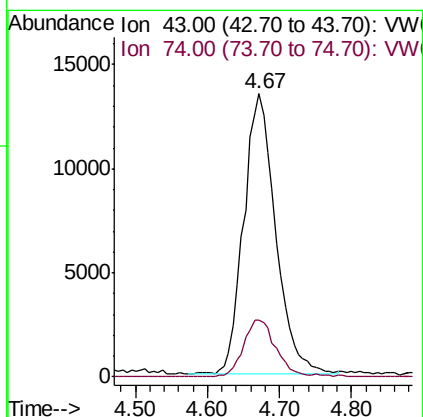
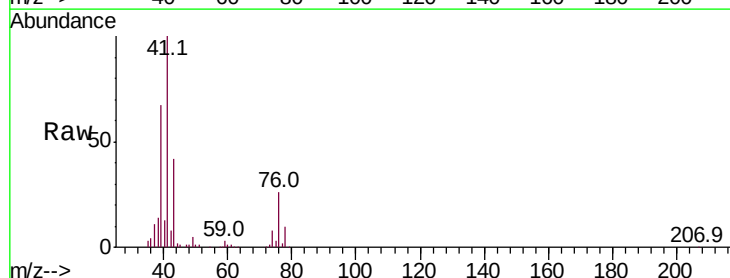
Instrument :  
MSVOA\_W  
ClientSampleId :

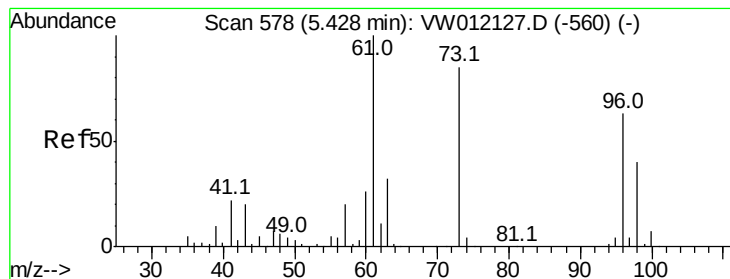
Tot Ion: 76 Resp: 120659  
Ion Ratio Lower Upper  
76 100  
78 9.8 7.3 10.9



#18  
Methyl Acetate  
Concen: 21.185 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 43 Resp: 41555  
Ion Ratio Lower Upper  
43 100  
74 20.4 15.7 23.5



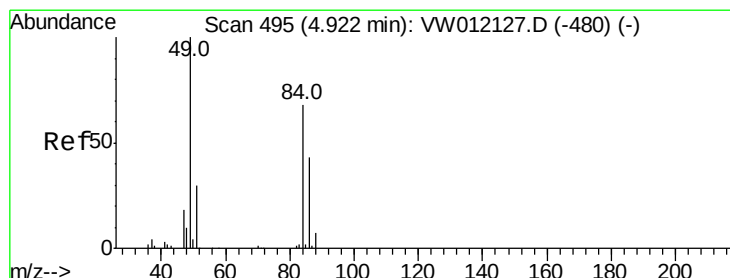
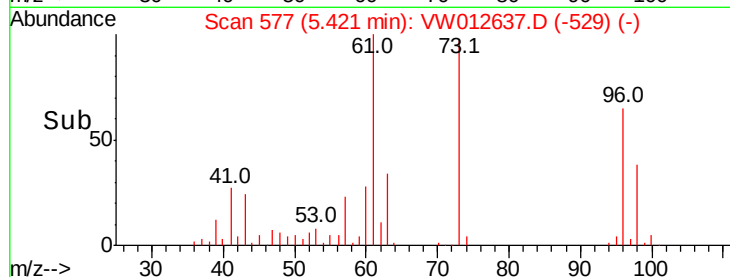
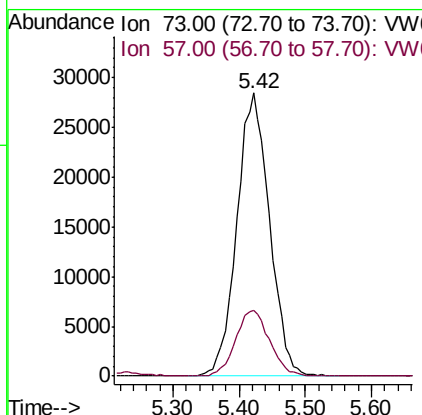
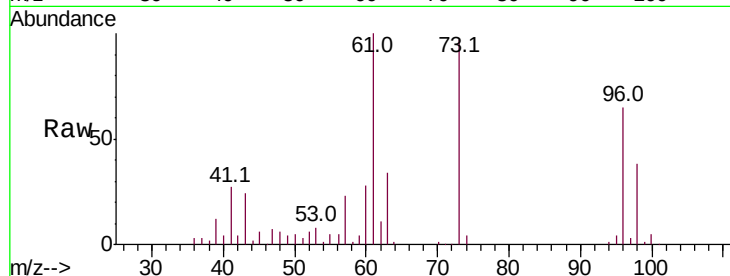


#19

Methyl tert-butyl Ether  
 Concen: 23.044 ug/l  
 RT: 5.42 min Scan# 577  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Instrument :  
 MSVOA\_W  
 ClientSampled :

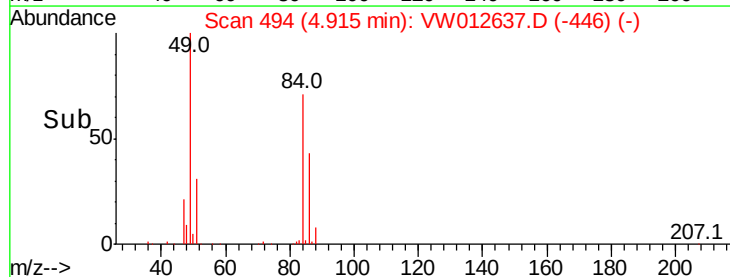
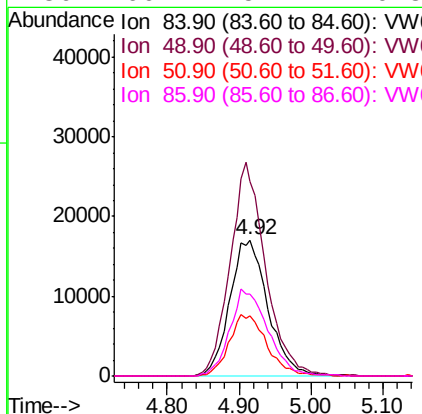
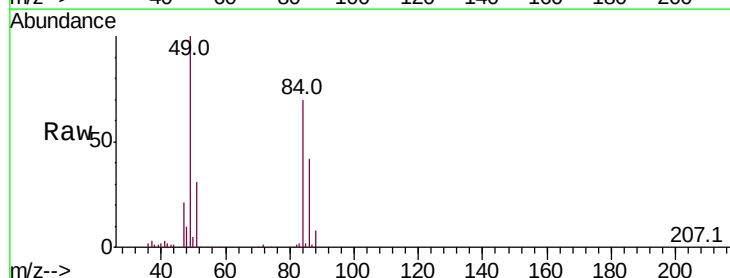
Tot Ion: 73 Resp: 97418  
 Ion Ratio Lower Upper  
 73 100  
 57 23.4 18.9 28.3

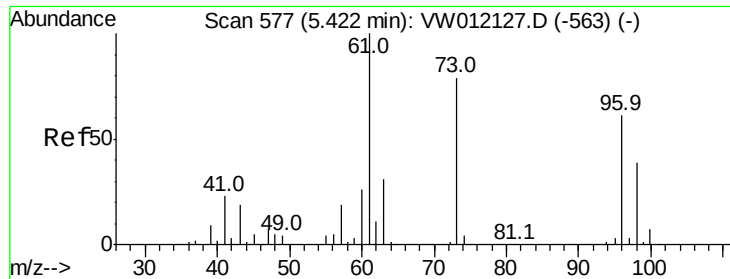


#20

Methylene Chloride  
 Concen: 20.925 ug/l  
 RT: 4.92 min Scan# 494  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 84 Resp: 62647  
 Ion Ratio Lower Upper  
 84 100  
 49 142.0 117.8 176.8  
 51 44.1 35.6 53.4  
 86 60.1 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 20.620 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :

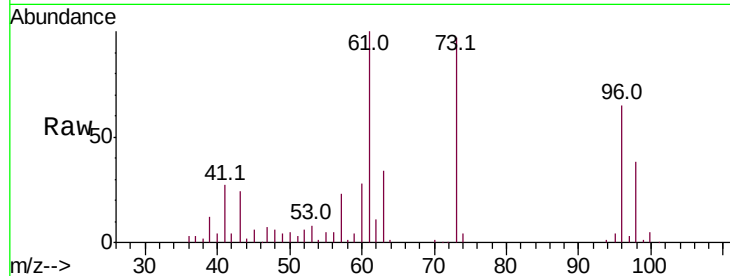
Tot Ion: 96 Resp: 57803

Ion Ratio Lower Upper

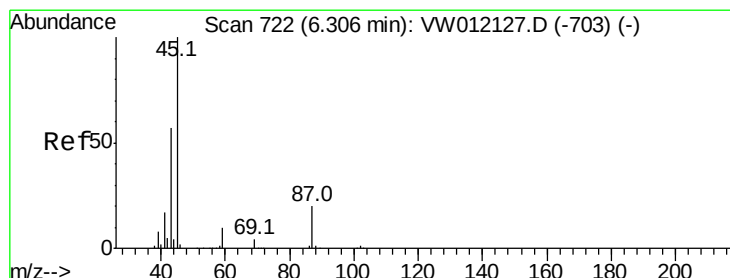
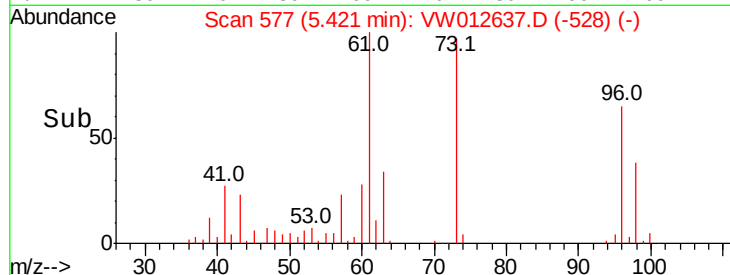
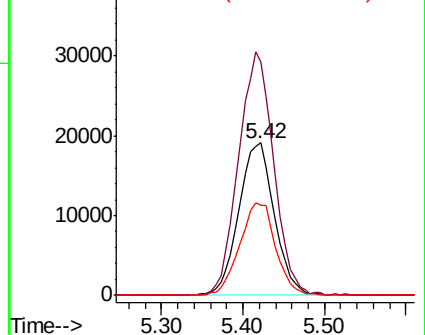
96 100

61 153.1 131.4 197.0

98 58.8 51.4 77.0



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



#22

Diisopropyl ether

Concen: 21.911 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Tgt Ion: 45 Resp: 226975

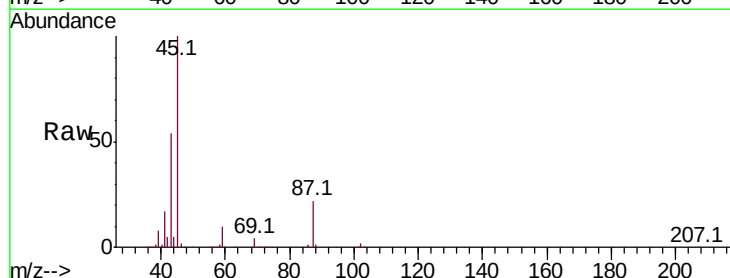
Ion Ratio Lower Upper

45 100

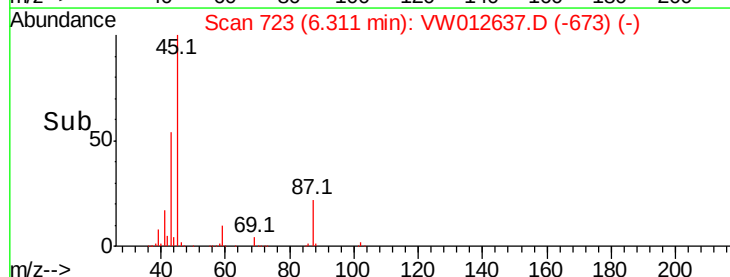
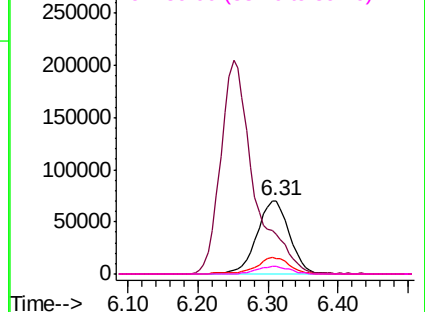
43 53.9 45.5 68.3

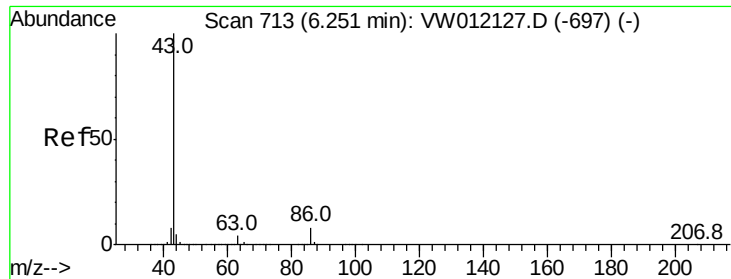
87 21.5 16.1 24.1

59 10.2 8.2 12.2



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





#23

Vinyl Acetate

Concen: 106.176 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

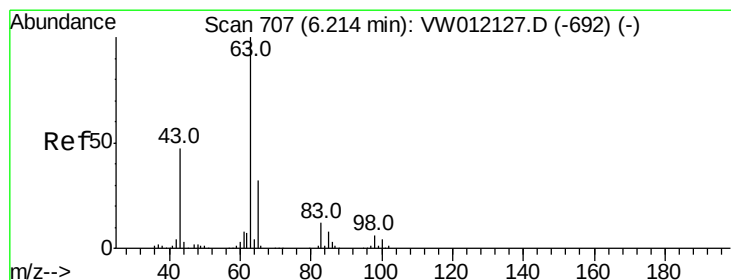
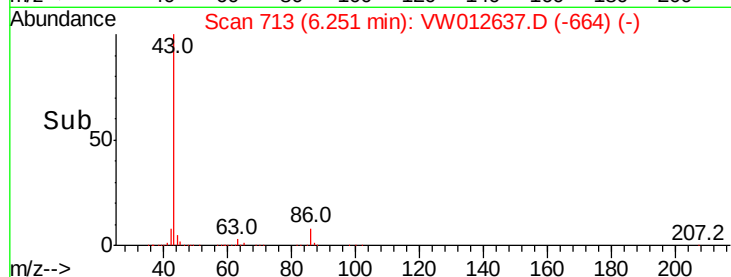
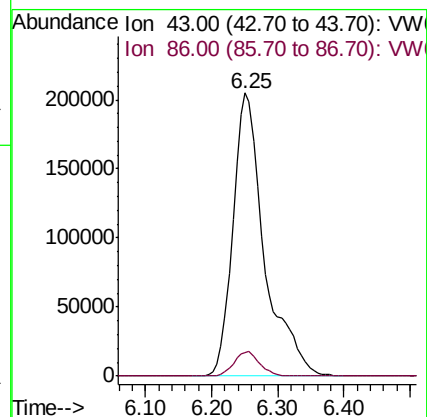
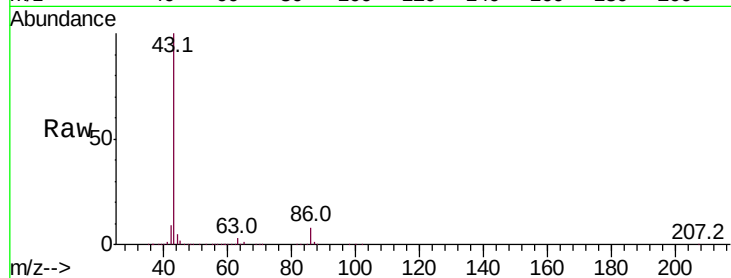
ClientSampleId :

Tot Ion: 43 Resp: 676885

Ion Ratio Lower Upper

43 100

86 8.2 6.5 9.7



#24

1,1-Dichloroethane

Concen: 21.554 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

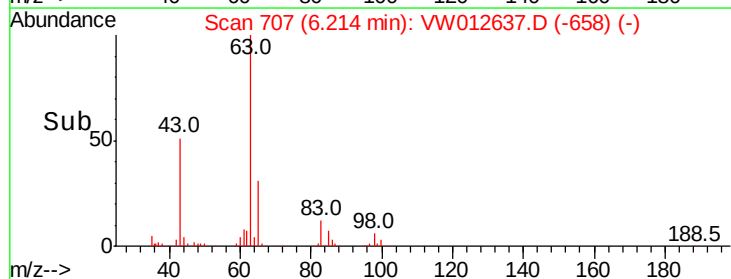
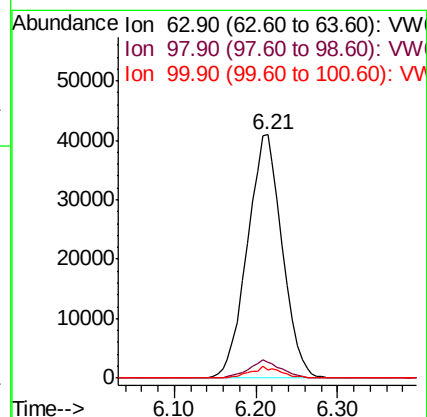
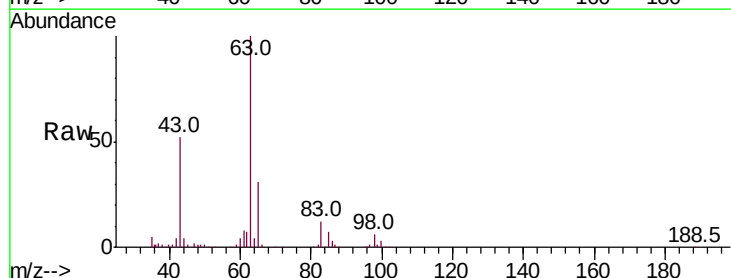
Tgt Ion: 63 Resp: 121570

Ion Ratio Lower Upper

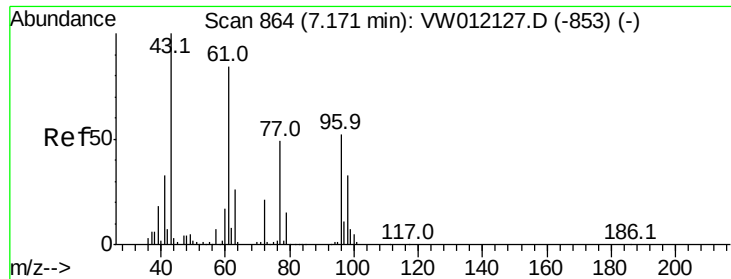
63 100

98 6.4 3.0 9.2

100 3.5 2.0 6.0







#25

2-Butanone

Concen: 98.633 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

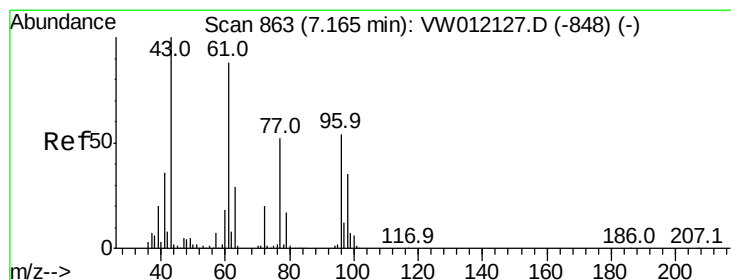
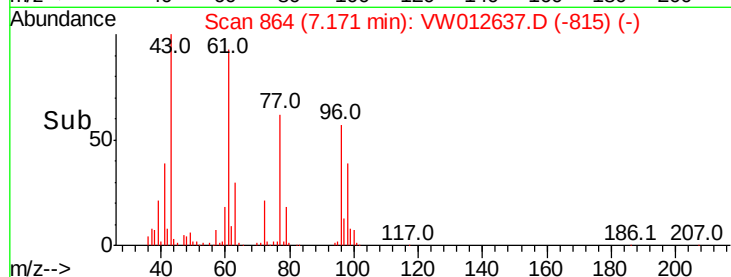
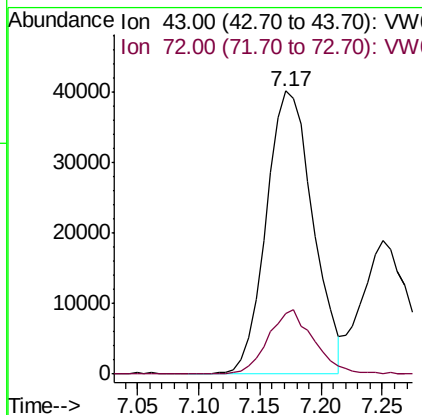
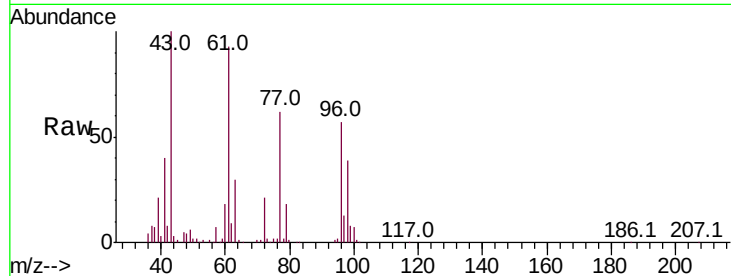
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 106145

Ion Ratio Lower Upper

43 100

72 21.4 16.6 24.8



#26

2,2-Dichloropropane

Concen: 23.503 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW012637.D

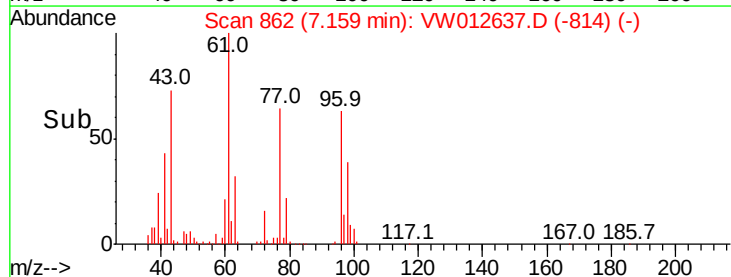
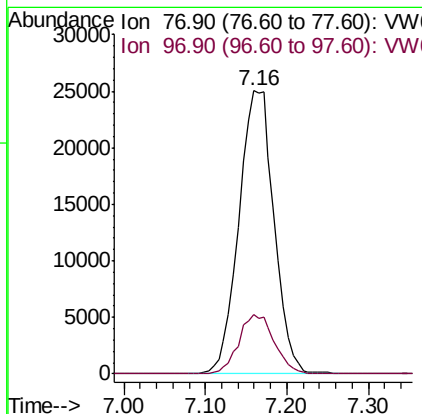
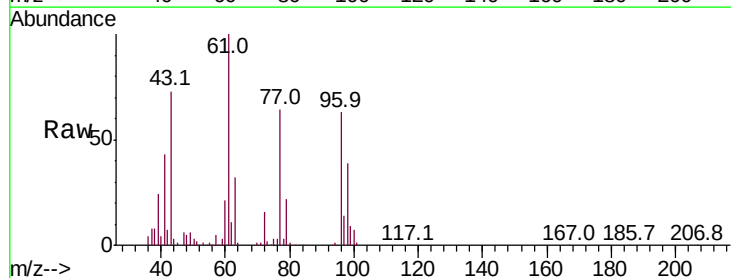
Acq: 05 Sep 2019 13:32

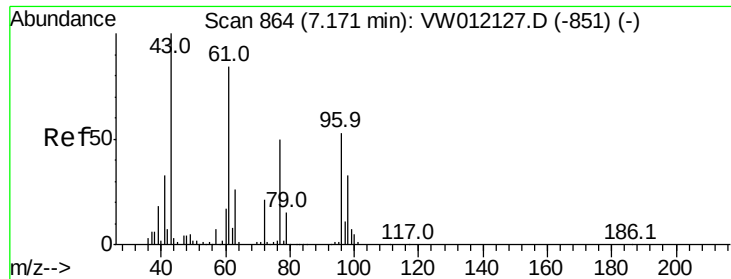
Tgt Ion: 77 Resp: 75032

Ion Ratio Lower Upper

77 100

97 21.1 11.1 33.1



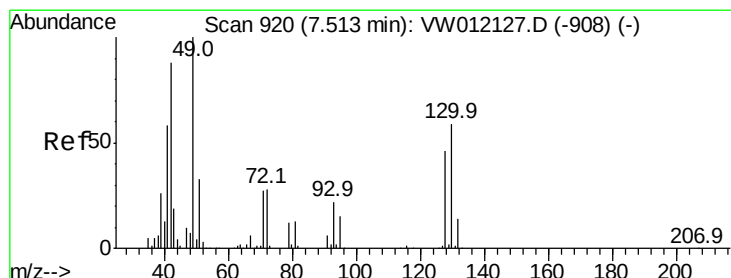
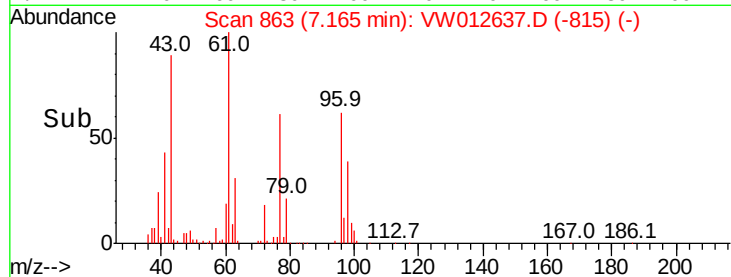
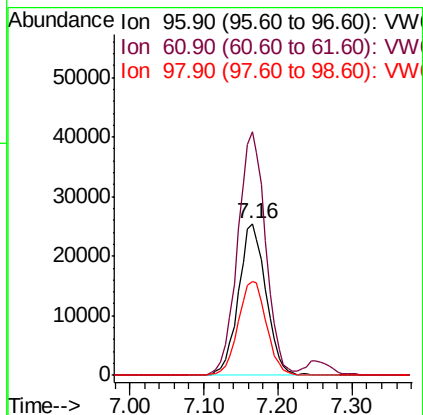
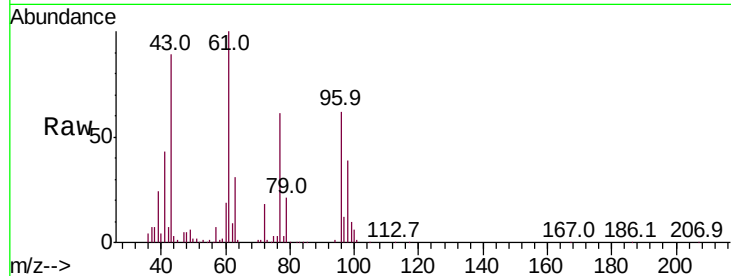


#27

cis-1,2-Dichloroethene  
 Concen: 22.087 ug/l  
 RT: 7.16 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Instrument :  
 MSVOA\_W  
 ClientSampled :

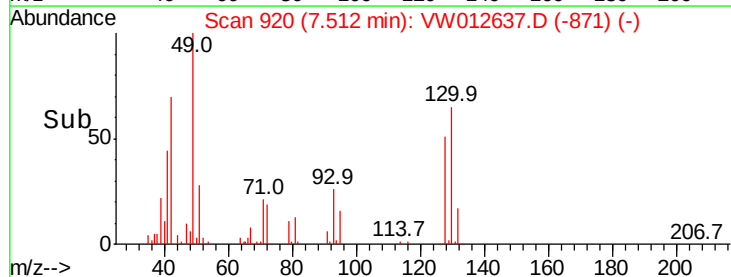
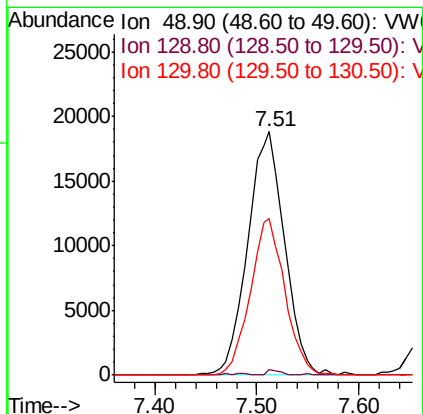
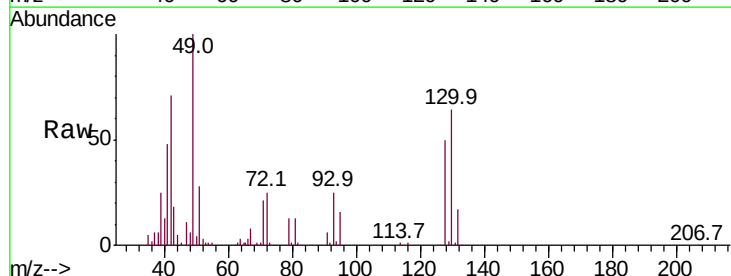
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 162.1 | 0.0   | 326.6 |
| 98      | 63.3  | 0.0   | 127.4 |

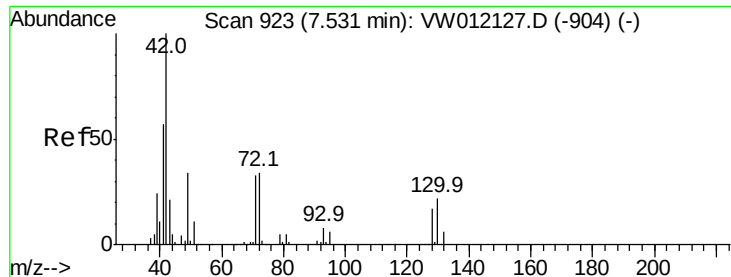


#28

Bromochloromethane  
 Concen: 19.226 ug/l  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.8   | 0.0   | 1.4   |
| 130     | 60.7  | 45.5  | 68.3  |

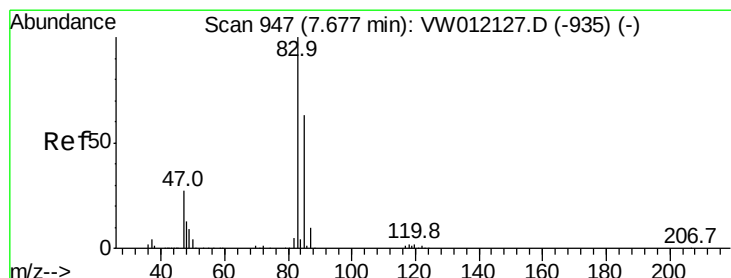
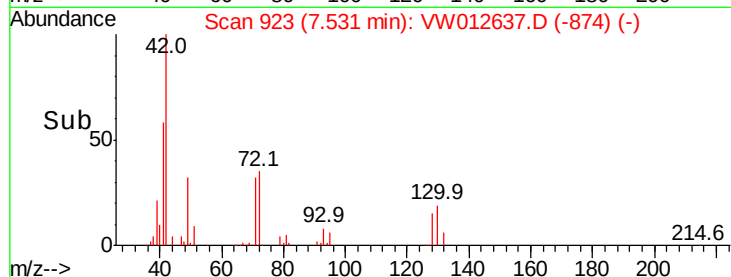
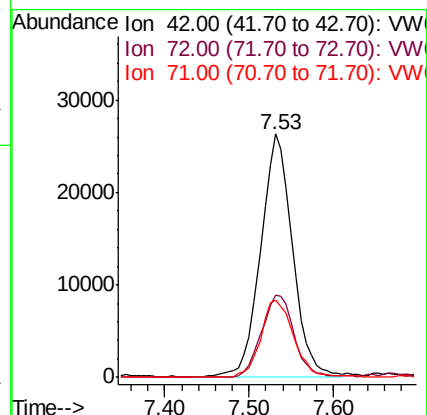
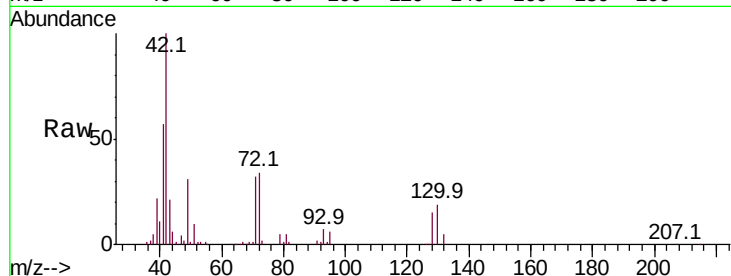




#29  
Tetrahydrofuran  
Concen: 106.272 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

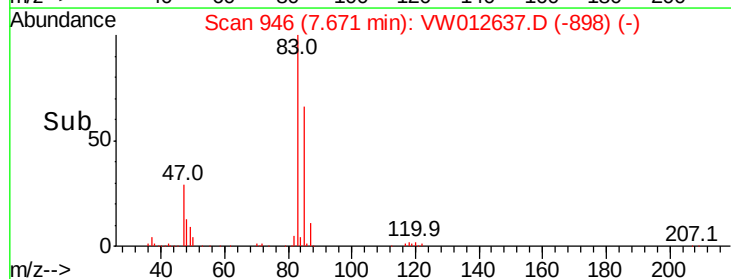
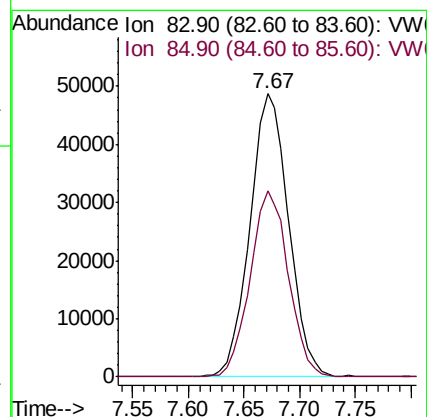
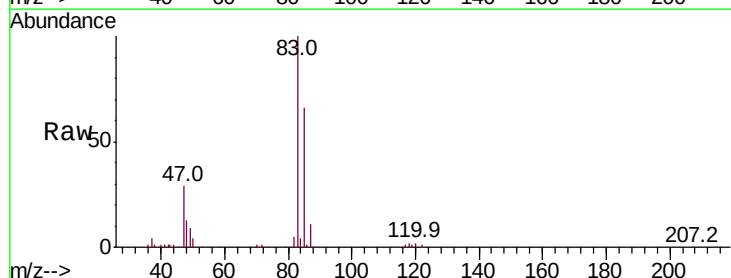
Instrument :  
MSVOA\_W  
ClientSampleId :

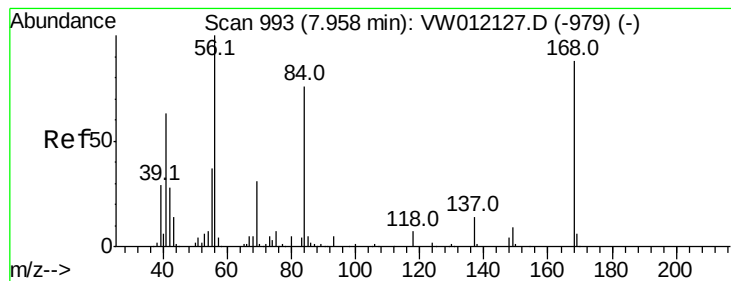
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.5  | 27.3  | 40.9  |
| 71      | 32.9  | 25.5  | 38.3  |



#30  
Chloroform  
Concen: 22.804 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.0  | 50.6  | 76.0  |





#31

Cyclohexane

Concen: 19.901 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampled :

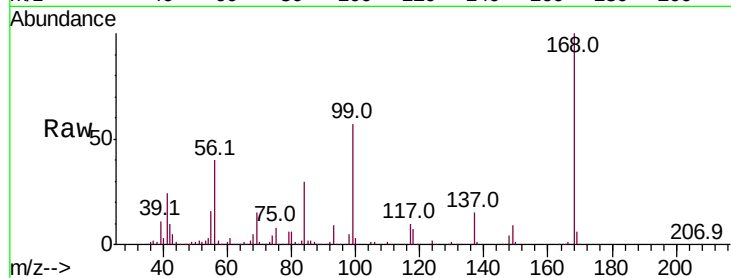
Tot Ion: 56 Resp: 111055

Ion Ratio Lower Upper

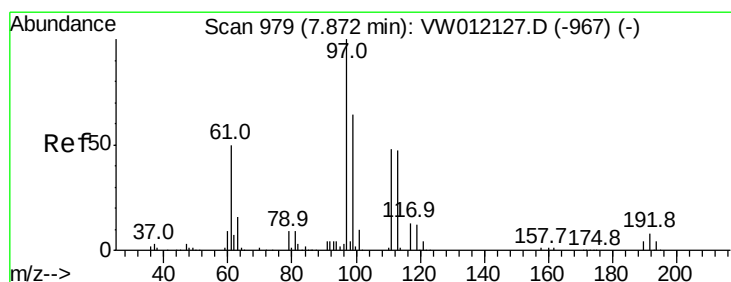
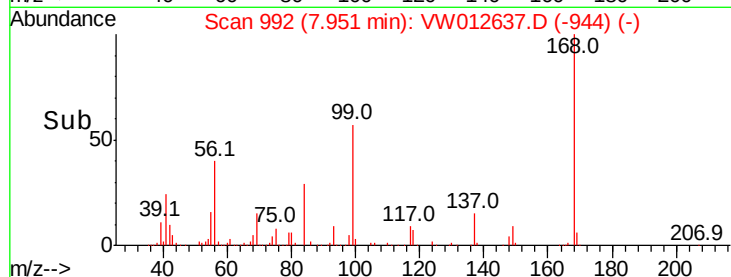
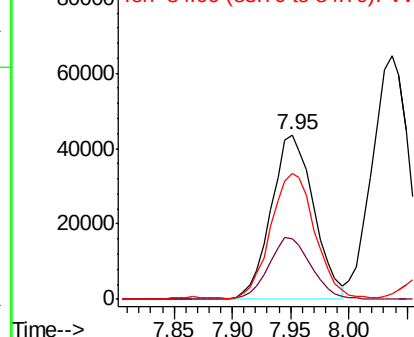
56 100

69 37.0 24.9 37.3

84 75.1 60.6 90.8



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: 23.305 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

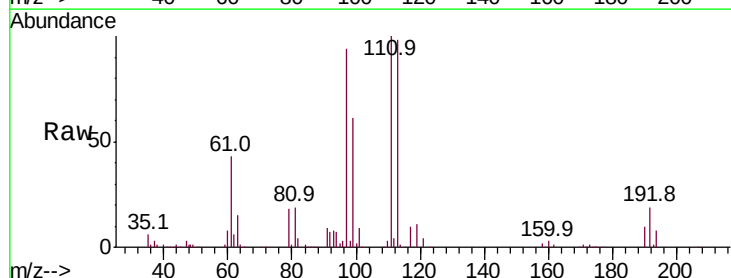
Tgt Ion: 97 Resp: 95137

Ion Ratio Lower Upper

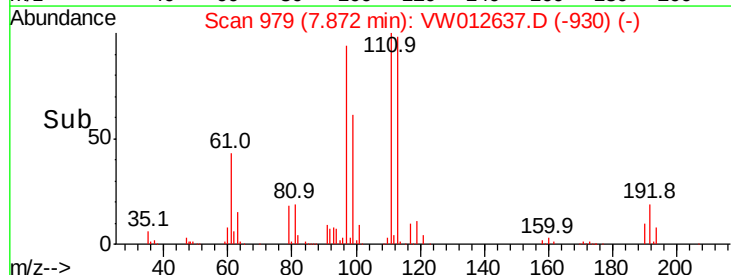
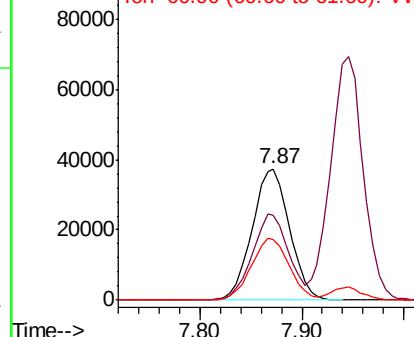
97 100

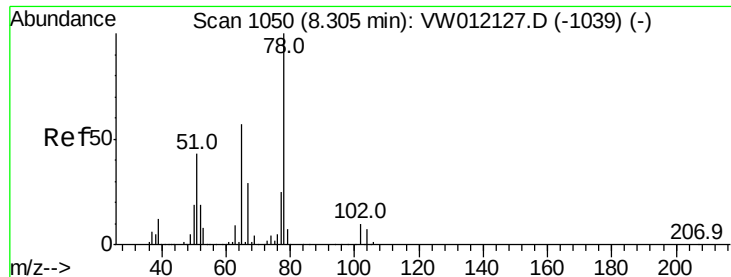
99 64.1 51.4 77.0

61 47.7 39.5 59.3



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

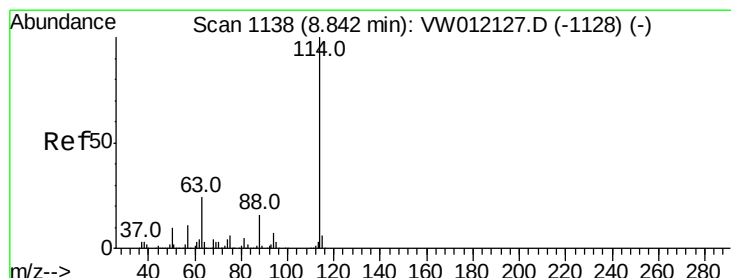
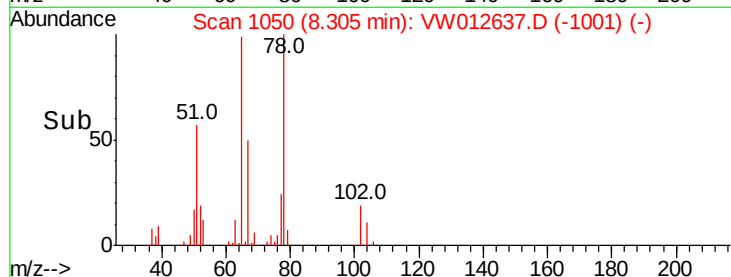
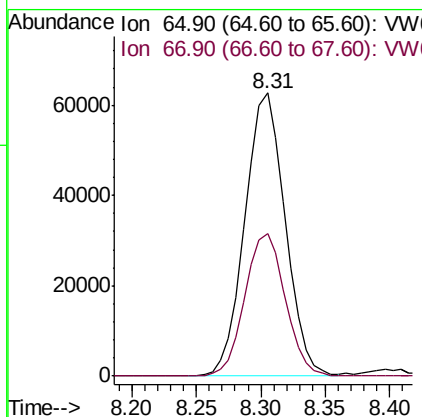
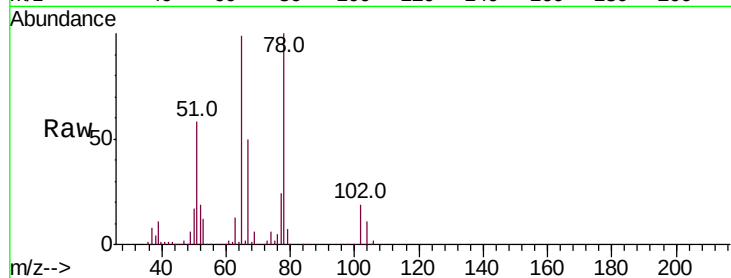




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.899 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

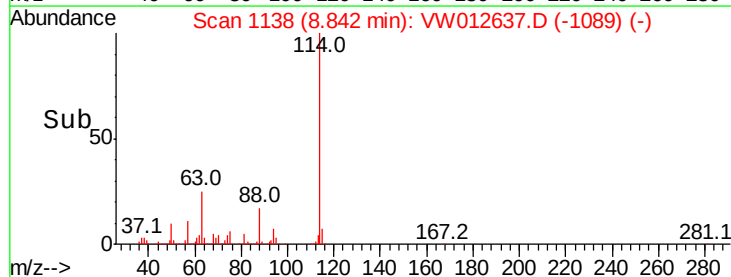
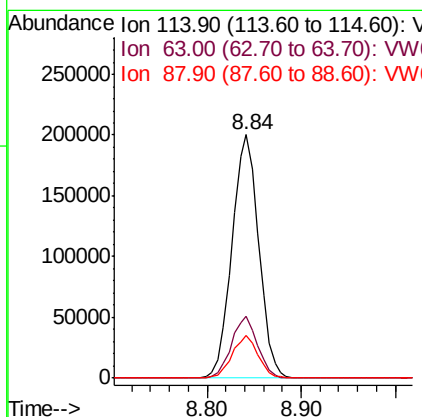
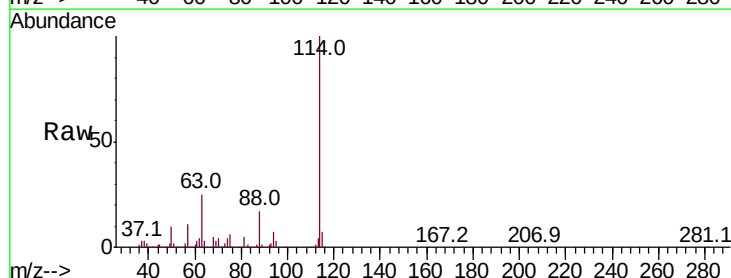
Instrument :  
 MSVOA\_W  
 ClientSampleId :

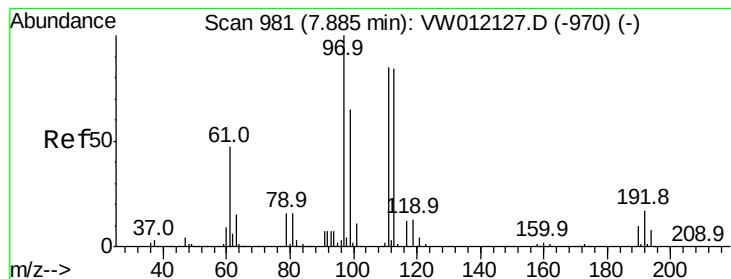
Tot Ion: 65 Resp: 136006  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 114 Resp: 393138  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 0.0 48.6  
 88 17.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 47.324 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampled :

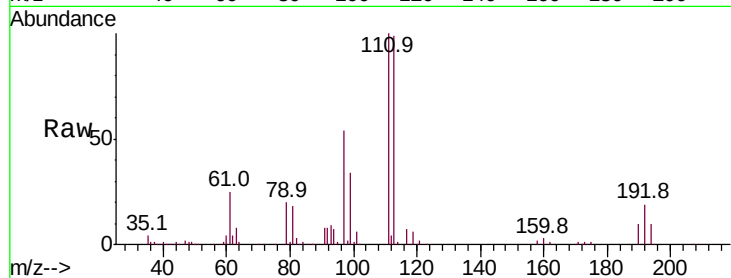
Tot Ion:113 Resp: 111052

Ion Ratio Lower Upper

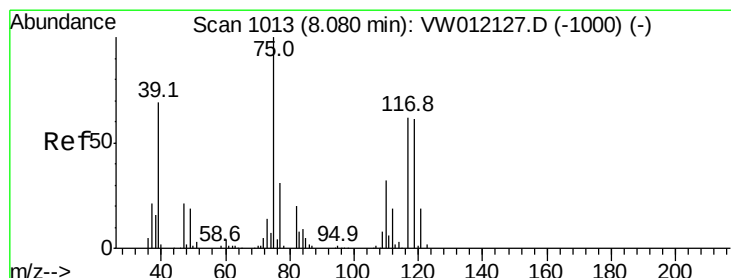
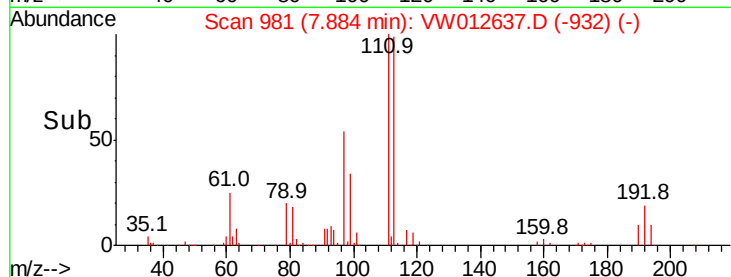
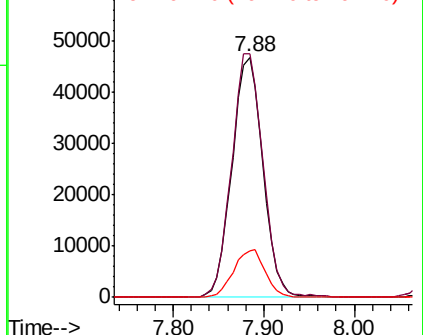
113 100

111 102.9 82.7 124.1

192 20.2 16.2 24.2



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



#36

1,1-Dichloropropene

Concen: 22.626 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

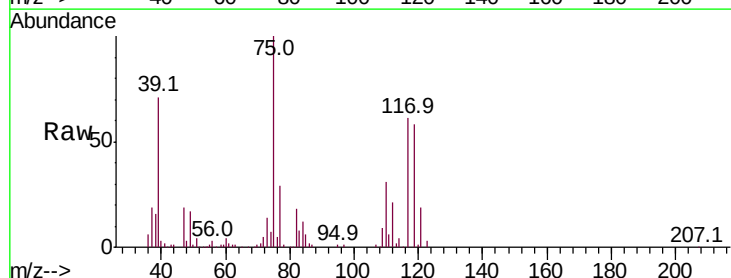
Tgt Ion: 75 Resp: 91919

Ion Ratio Lower Upper

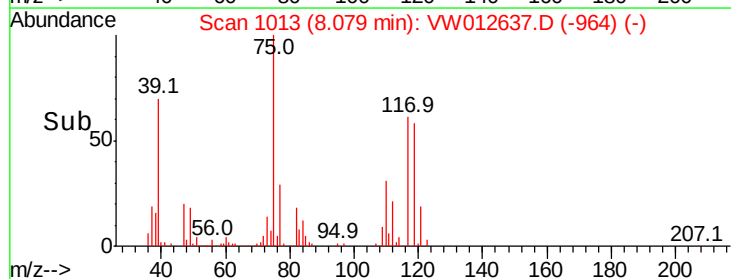
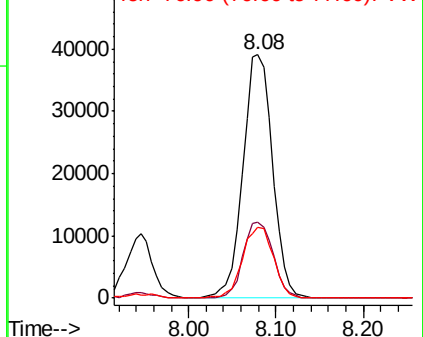
75 100

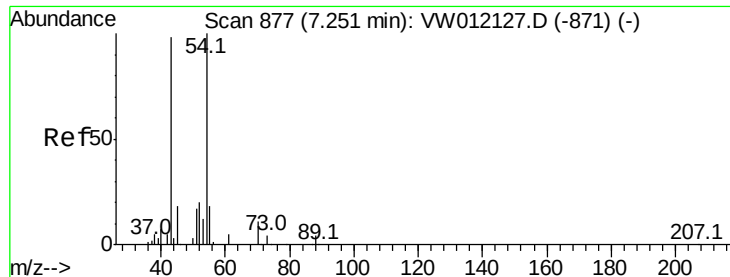
110 31.6 15.6 46.8

77 30.6 24.6 36.8



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VW

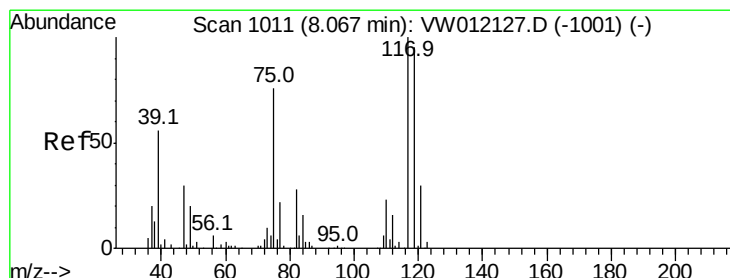
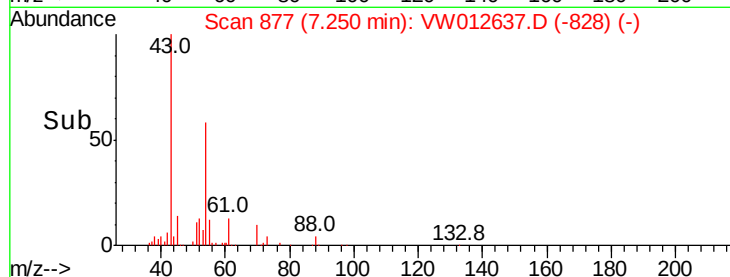
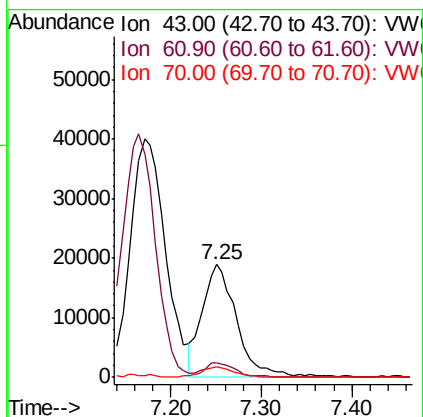
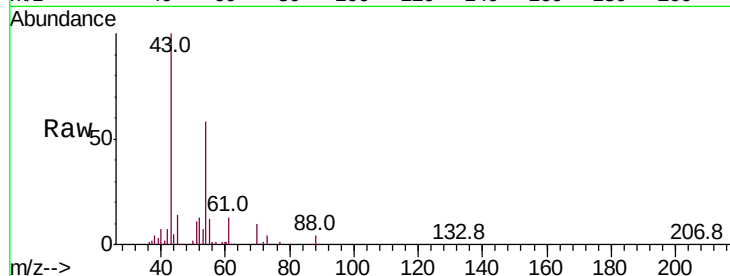




#37  
Ethyl Acetate  
Concen: 22.256 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

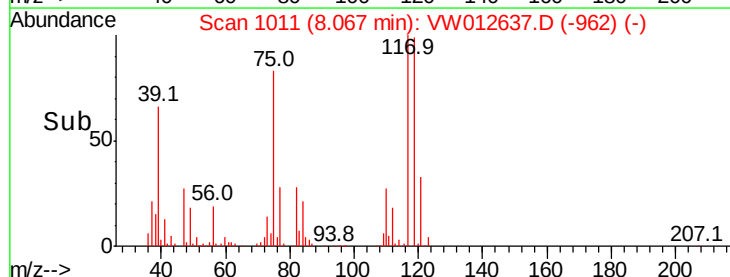
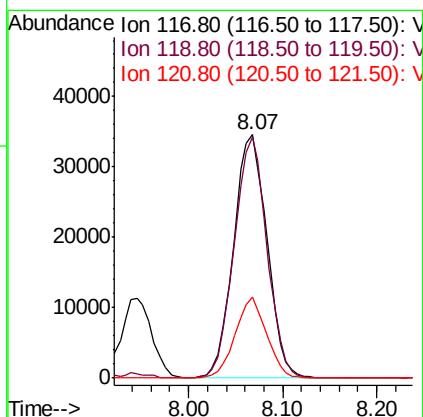
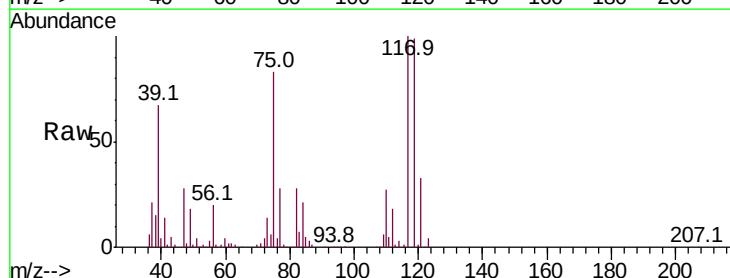
Instrument :  
MSVOA\_W  
ClientSampled :

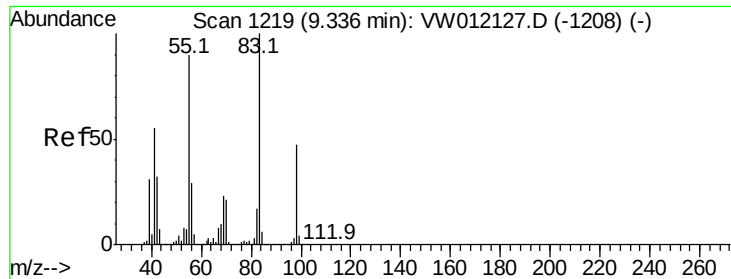
Tot Ion: 43 Resp: 49548  
Ion Ratio Lower Upper  
43 100  
61 12.5 9.2 13.8  
70 9.4 6.9 10.3



#38  
Carbon Tetrachloride  
Concen: 24.338 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 117 Resp: 85579  
Ion Ratio Lower Upper  
117 100  
119 99.0 76.2 114.2  
121 33.1 23.8 35.8

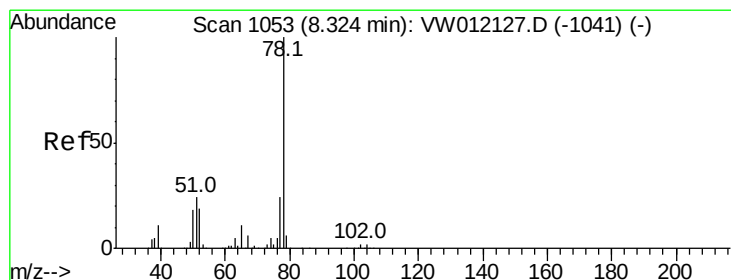
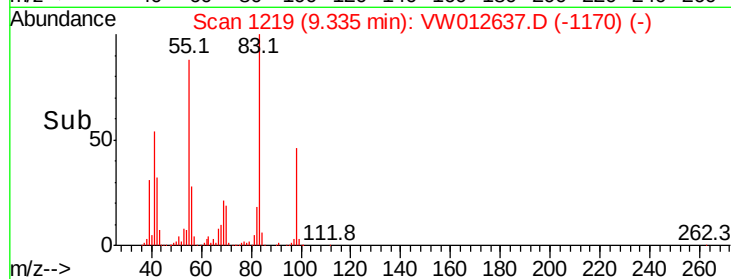
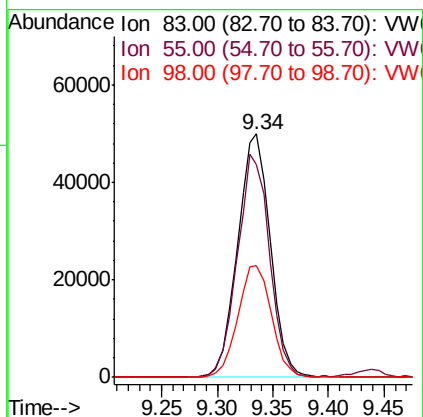
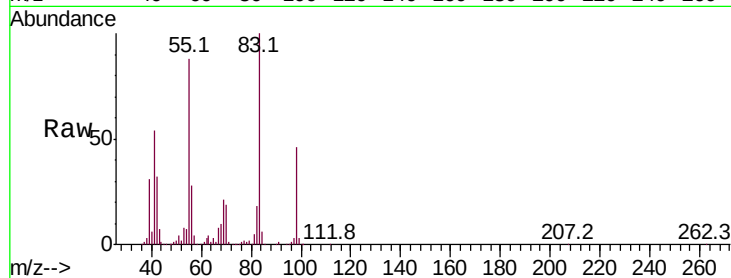




#39  
Methylvlcyclohexane  
Concen: 22.267 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

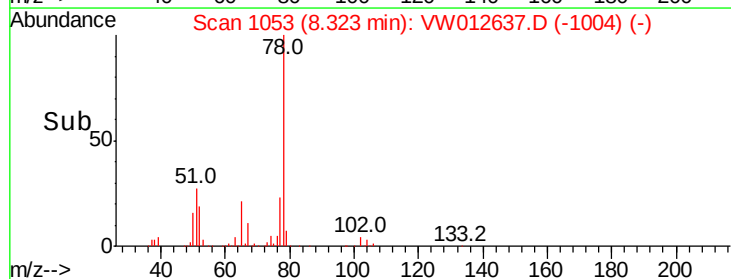
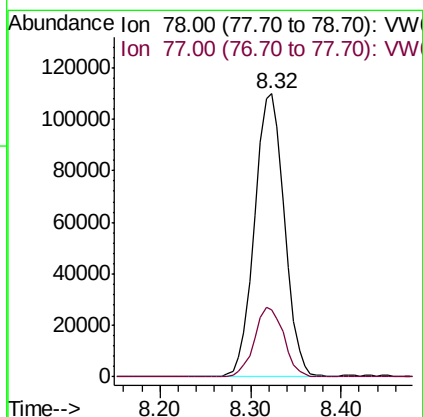
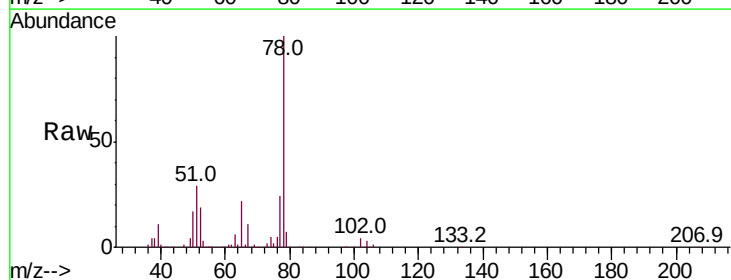
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 83 Resp: 101626  
Ion Ratio Lower Upper  
83 100  
55 87.5 71.8 107.8  
98 45.9 37.8 56.8

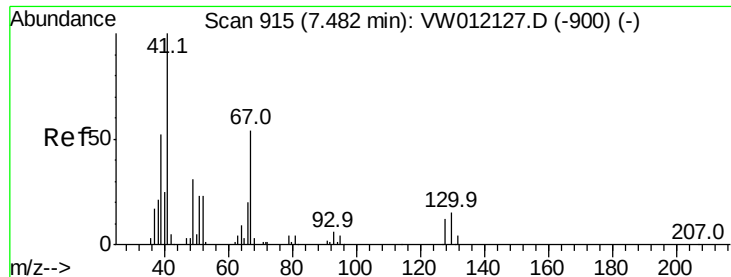


#40  
Benzene  
Concen: 22.561 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 78 Resp: 250274  
Ion Ratio Lower Upper  
78 100  
77 23.6 19.5 29.3



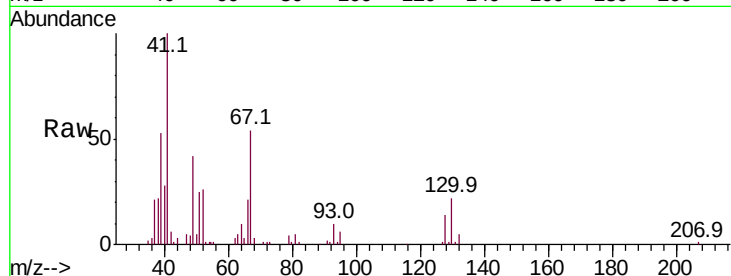




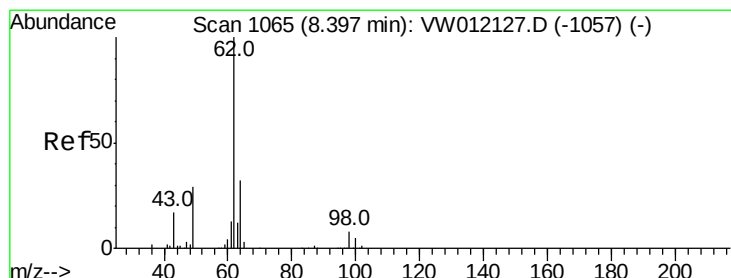
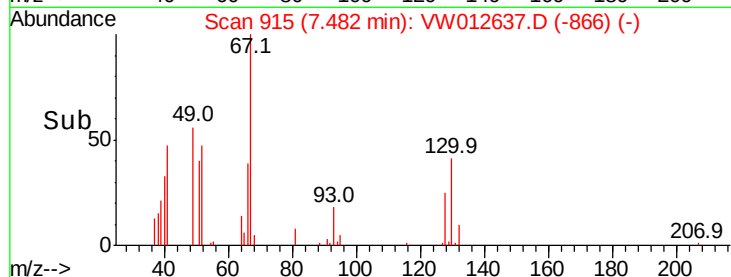
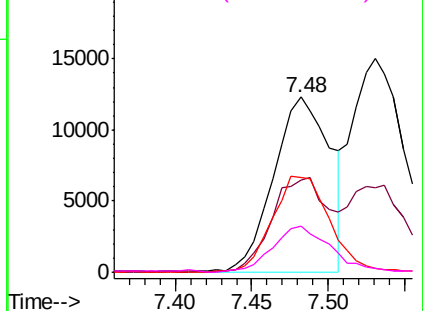
#41  
Methacrylonitrile  
Concen: 24.279 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 31768 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.6  | 45.8  | 68.8  |
| 67       | 56.0  | 46.2  | 69.4  |
| 52       | 27.2  | 21.0  | 31.6  |

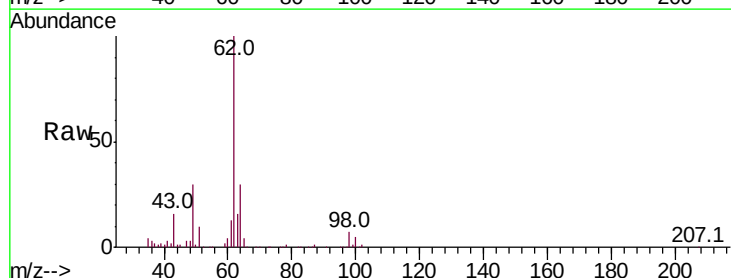


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

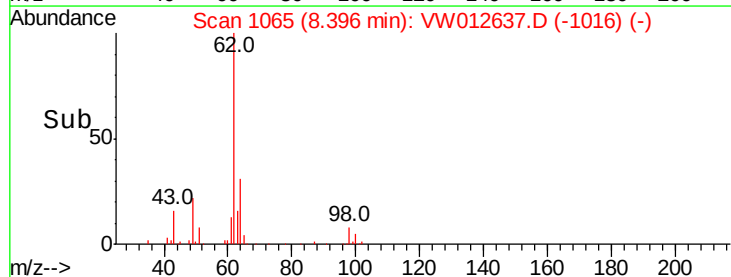
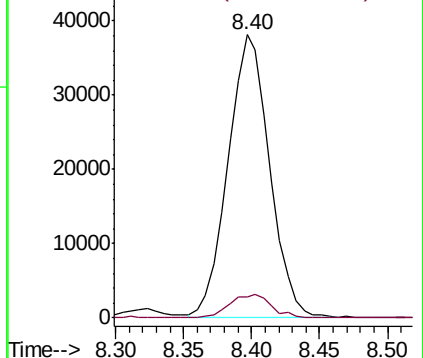


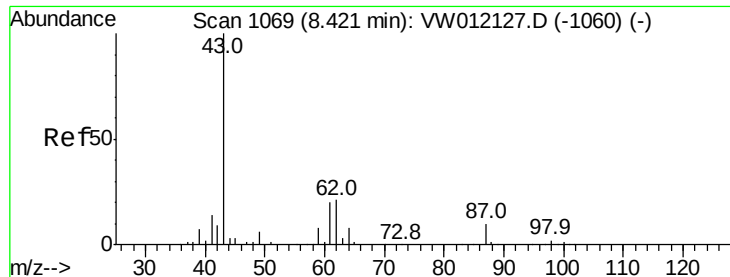
#42  
1,2-Dichloroethane  
Concen: 23.205 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 80679 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.6   | 0.0   | 16.6  |



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





#43

Isopropyl Acetate

Concen: 22.462 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampleId :

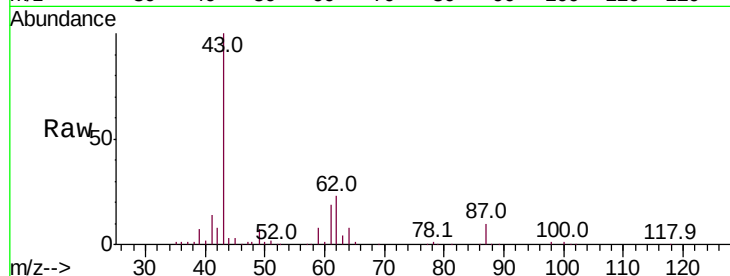
Tot Ion: 43 Resp: 92629

Ion Ratio Lower Upper

43 100

61 27.4 21.1 31.7

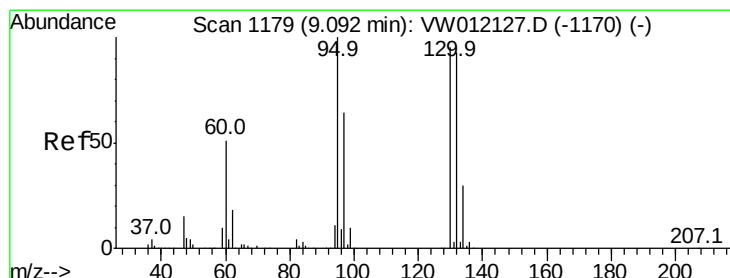
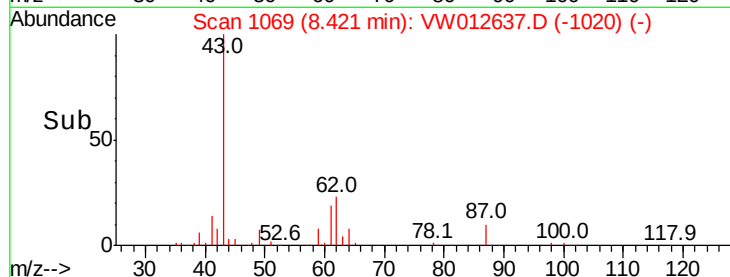
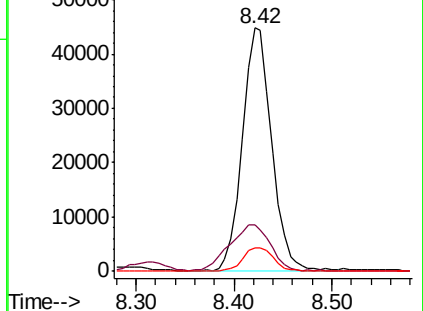
87 10.3 8.2 12.2



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: 23.494 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012637.D

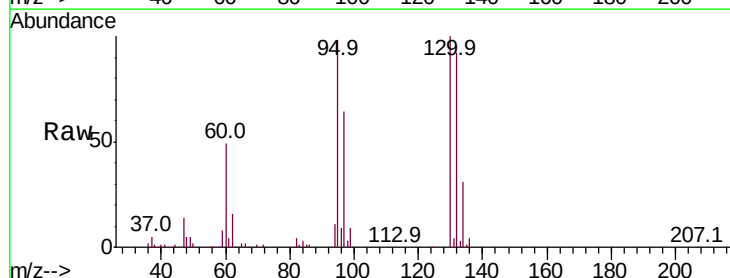
Acq: 05 Sep 2019 13:32

Tgt Ion:130 Resp: 63357

Ion Ratio Lower Upper

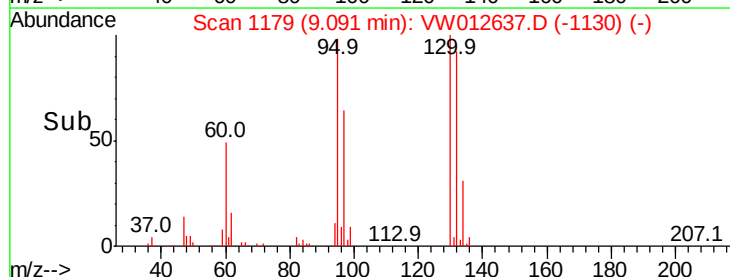
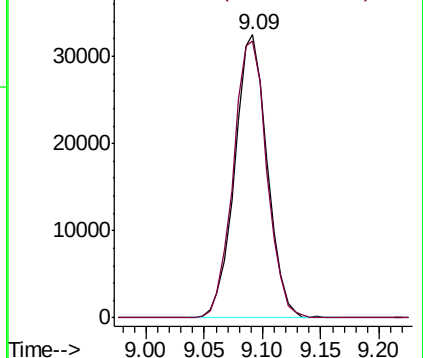
130 100

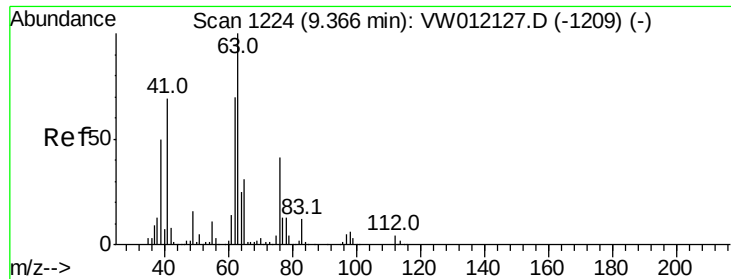
95 97.7 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 22.197 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

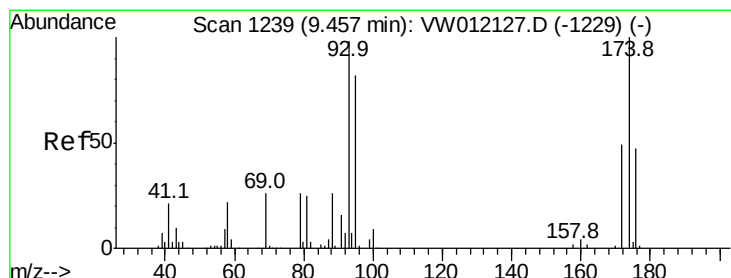
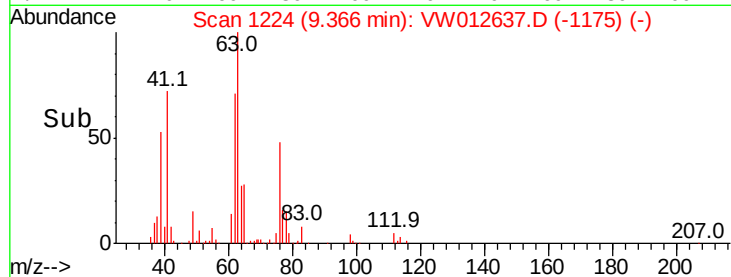
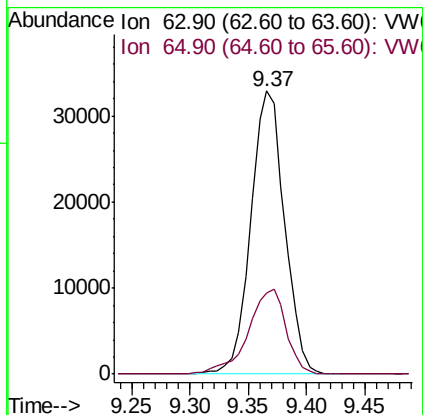
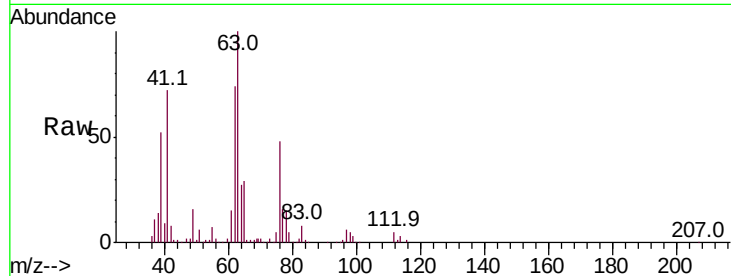
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 63 Resp: 66269

Ion Ratio Lower Upper

63 100

65 28.5 25.0 37.4



#46

Dibromomethane

Concen: 23.212 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

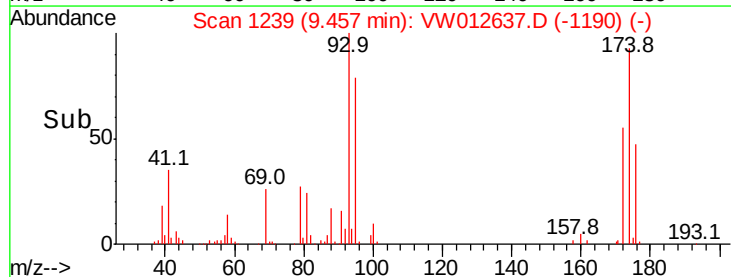
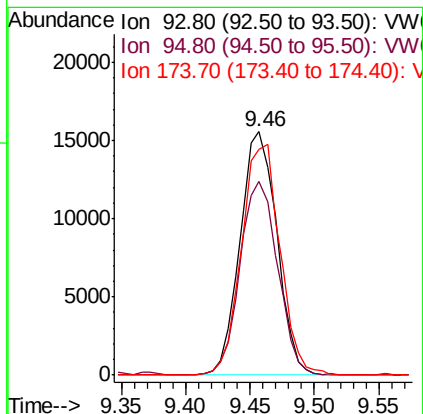
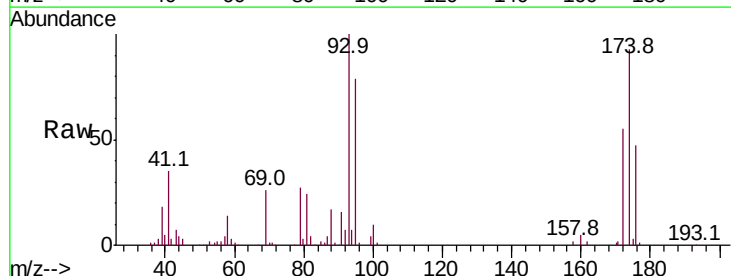
Tgt Ion: 93 Resp: 30834

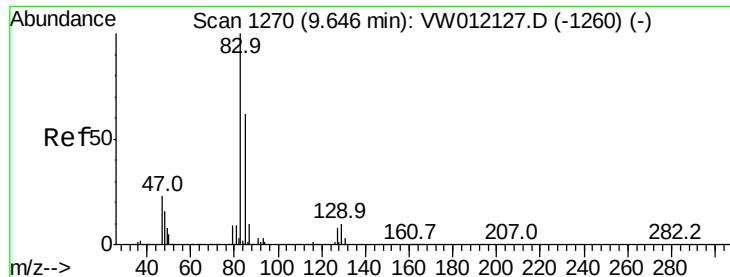
Ion Ratio Lower Upper

93 100

95 81.5 67.2 100.8

174 98.6 79.0 118.6





#47

Bromodichloromethane

Concen: 23.329 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampleId :

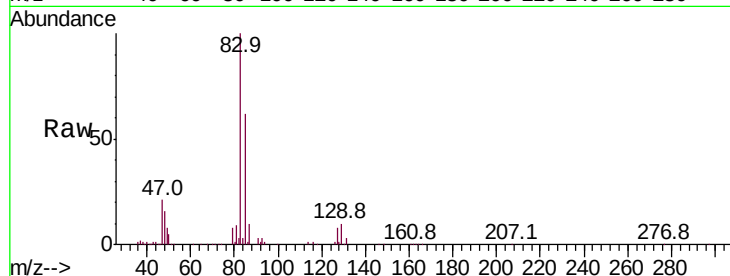
Tot Ion: 83 Resp: 82477

Ion Ratio Lower Upper

83 100

85 62.2 49.4 74.2

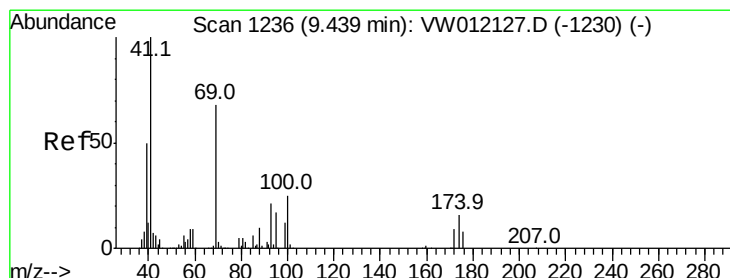
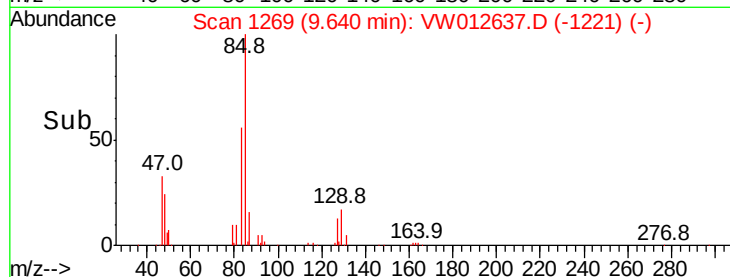
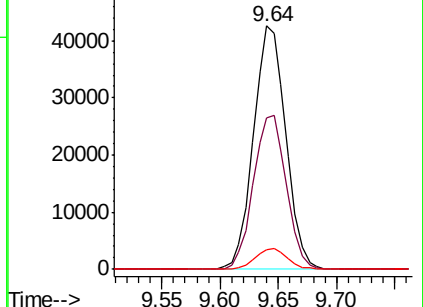
127 8.2 6.1 9.1



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: 21.928 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

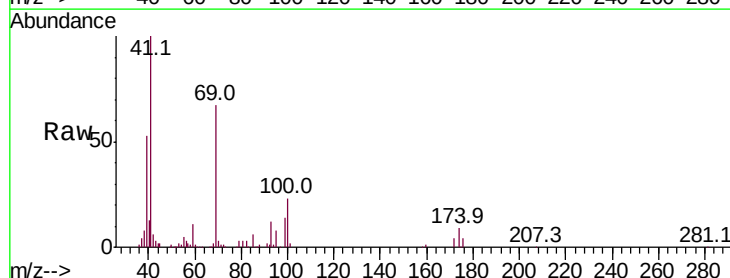
Tgt Ion: 41 Resp: 43037

Ion Ratio Lower Upper

41 100

69 77.8 56.7 85.1

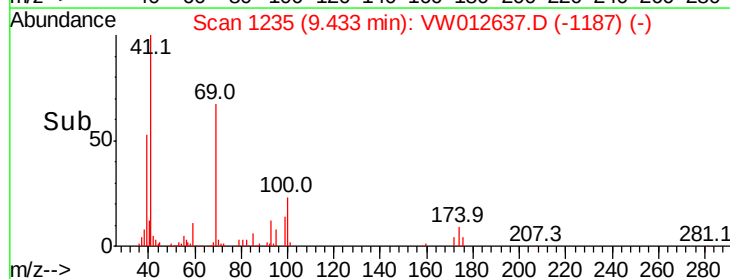
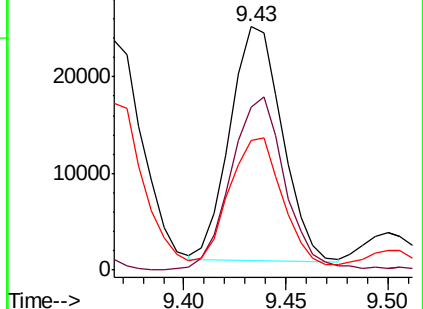
39 54.9 42.0 63.0

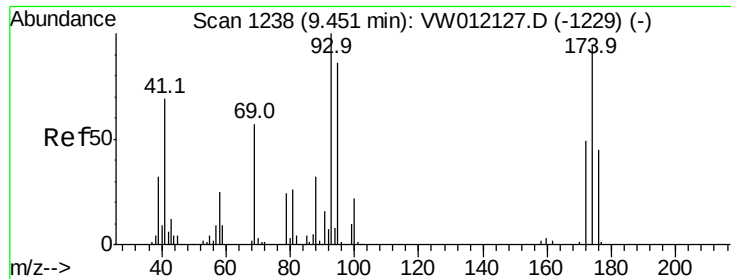


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

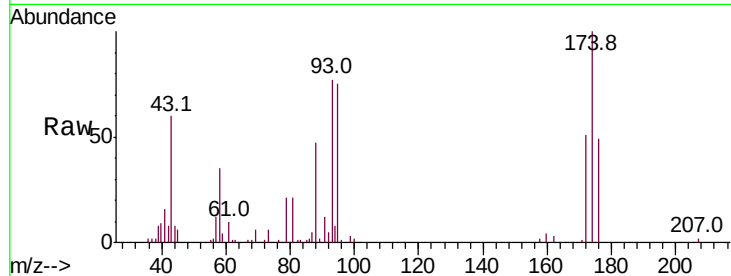




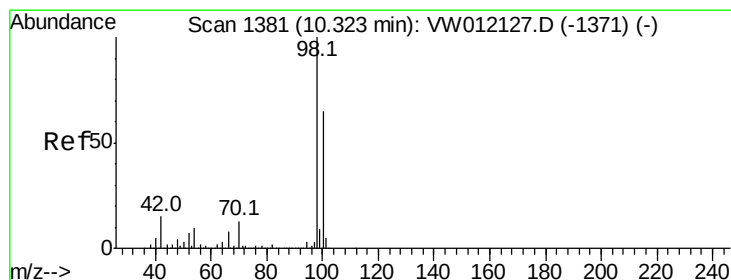
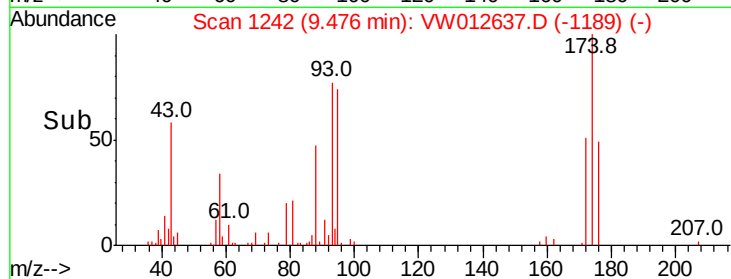
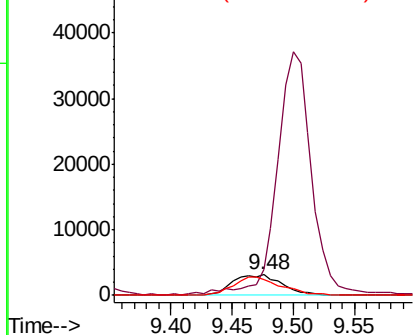
#49  
1,4-Dioxane  
Concen: 430.821 ug/l  
RT: 9.48 min Scan# 1242  
Delta R.T. 0.02 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 88 Resp: 8761  
Ion Ratio Lower Upper  
88 100  
43 0.0 32.9 49.3#  
58 88.0 71.0 106.4

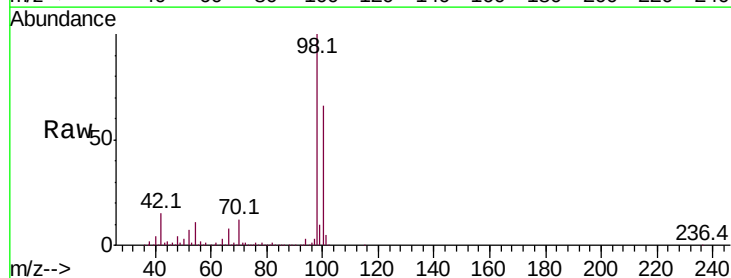


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

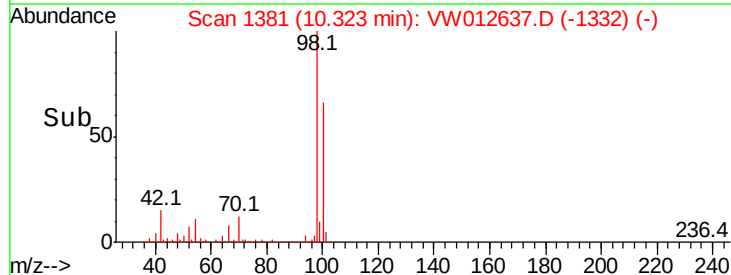
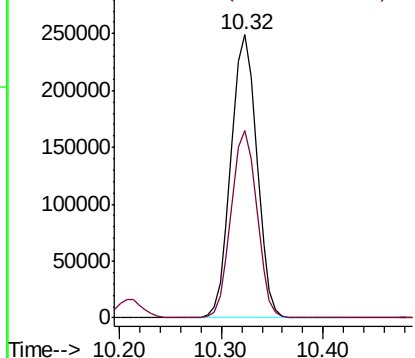


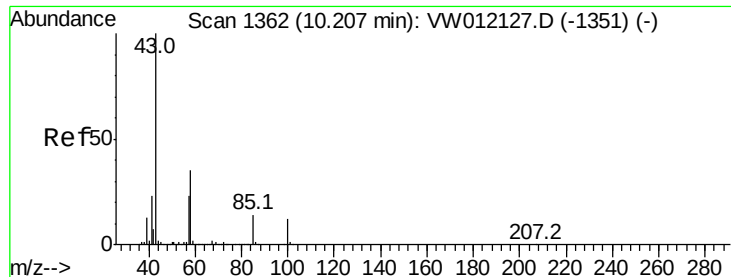
#50  
Toluene-d8  
Concen: 46.031 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 98 Resp: 437981  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.4 78.6



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

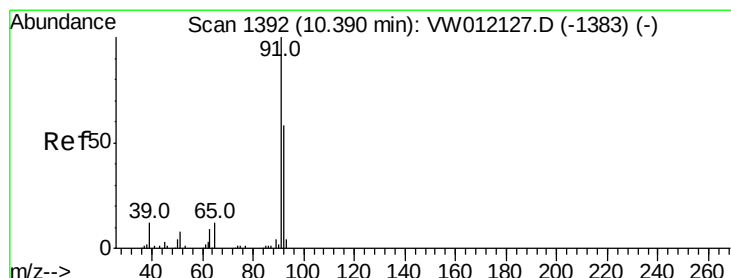
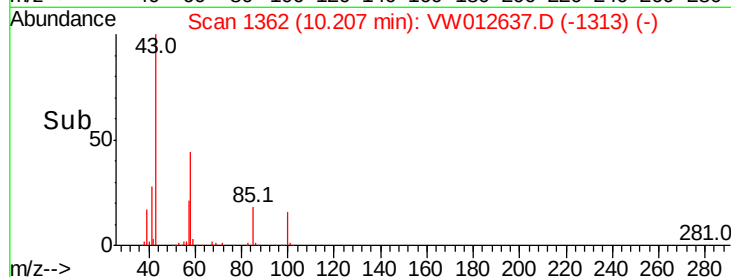
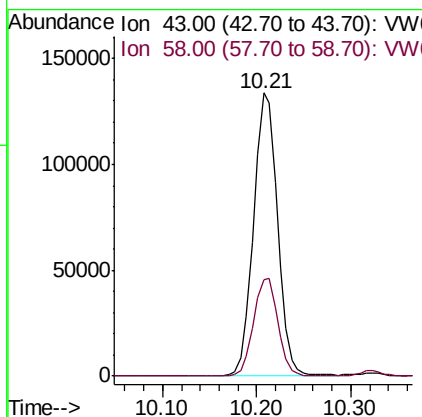
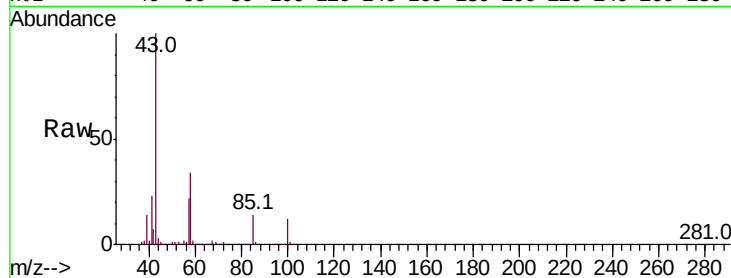




#51  
 4-Methyl-2-Pentanone  
 Concen: 113.586 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

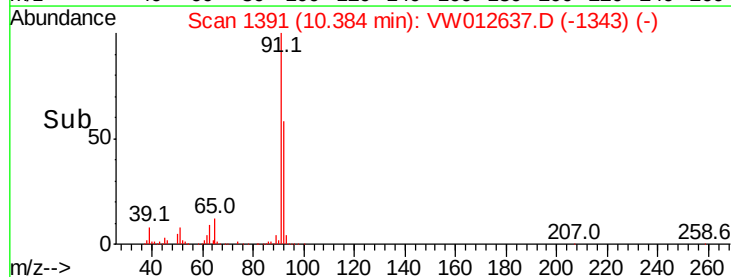
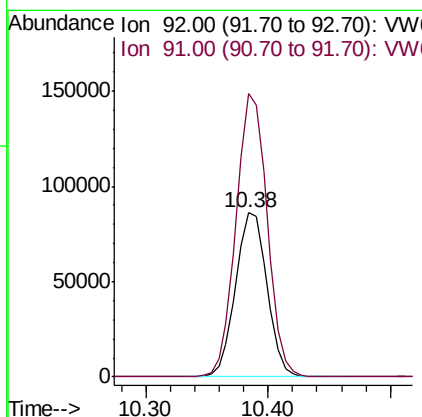
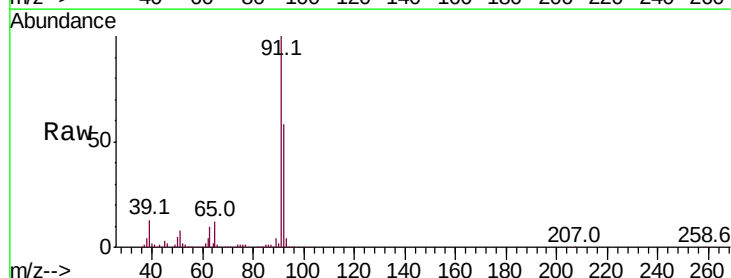
Instrument :  
 MSVOA\_W  
 ClientSampled :

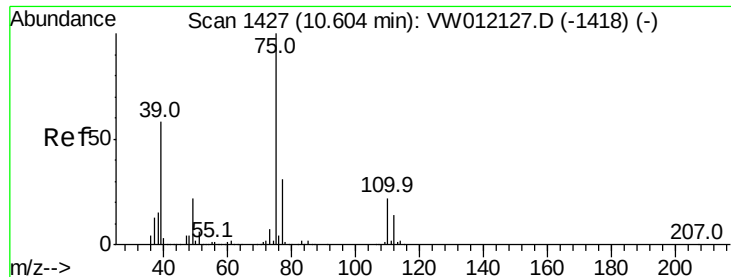
Tot Ion: 43 Resp: 238242  
 Ion Ratio Lower Upper  
 43 100  
 58 35.1 28.2 42.2



#52  
 Toluene  
 Concen: 22.890 ug/l  
 RT: 10.38 min Scan# 1391  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 92 Resp: 152547  
 Ion Ratio Lower Upper  
 92 100  
 91 172.3 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 23.424 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

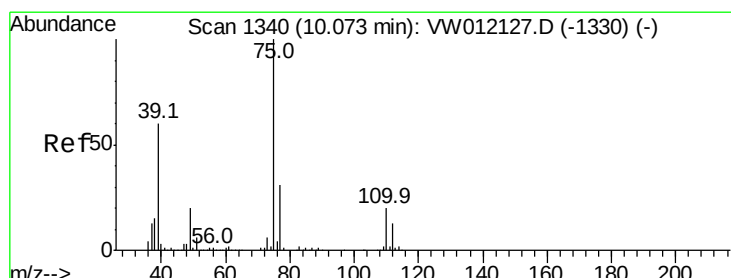
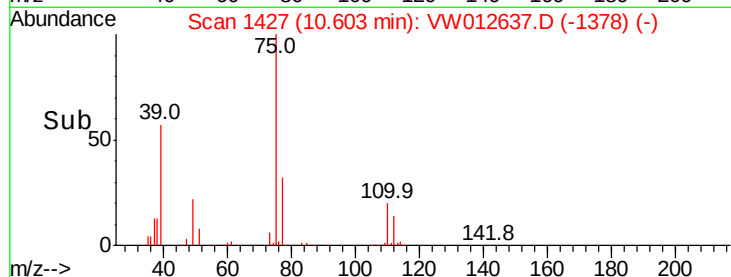
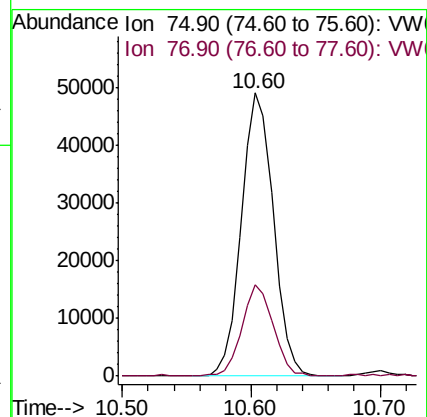
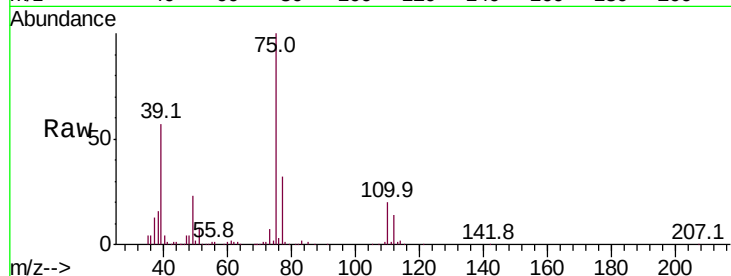
ClientSampled :

Tot Ion: 75 Resp: 84354

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 22.706 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

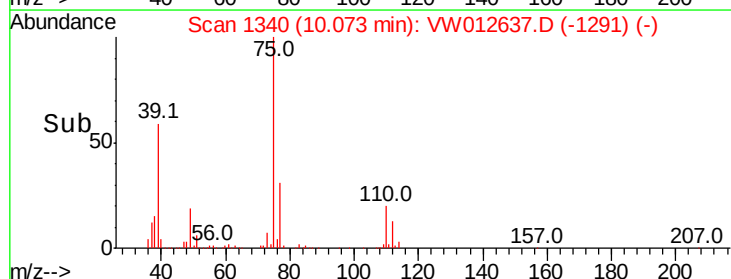
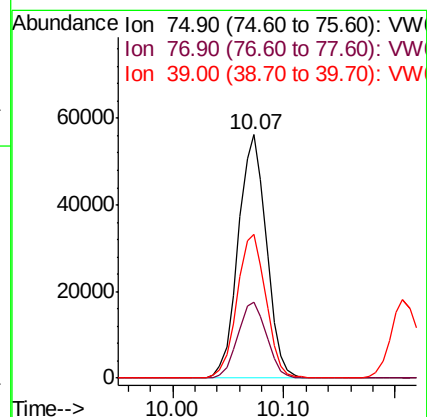
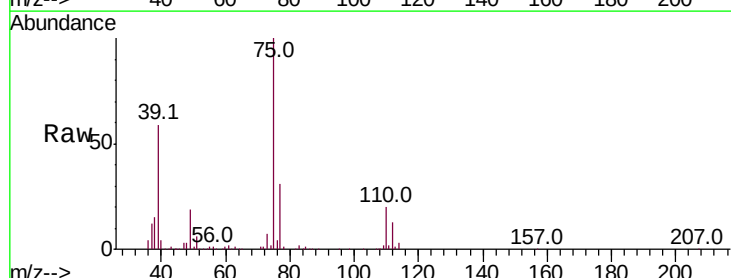
Tgt Ion: 75 Resp: 98729

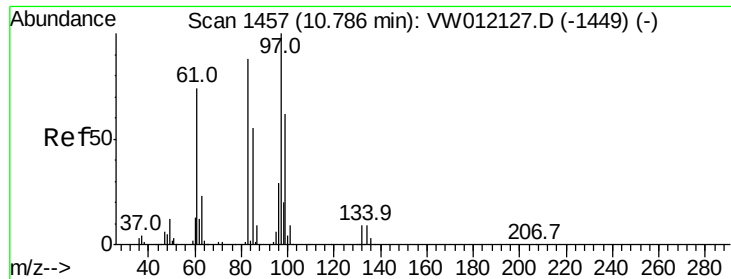
Ion Ratio Lower Upper

75 100

77 31.1 25.1 37.7

39 58.7 48.3 72.5





#55

1,1,2-Trichloroethane

Concen: 23.700 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

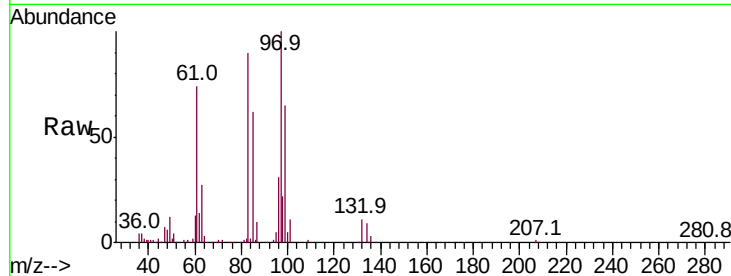
Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 44543

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 89.8  | 70.8  | 106.2 |
| 85  | 62.7  | 43.8  | 65.8  |
| 99  | 65.3  | 49.8  | 74.6  |



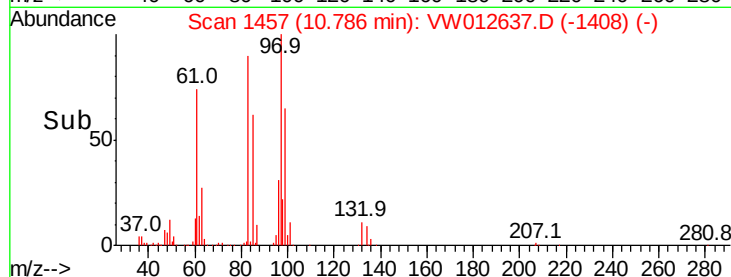
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

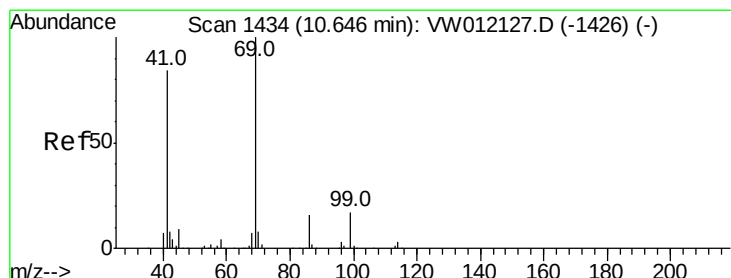
Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

Time-->



Time-->



#56

Ethyl methacrylate

Concen: 22.837 ug/l

RT: 10.65 min Scan# 1434

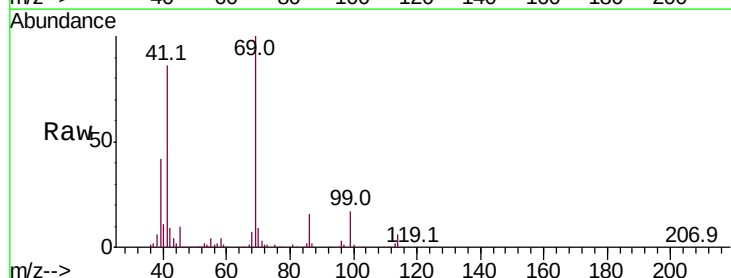
Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Tgt Ion: 69 Resp: 62467

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 84.0  | 66.5  | 99.7  |
| 39  | 37.1  | 31.0  | 46.4  |

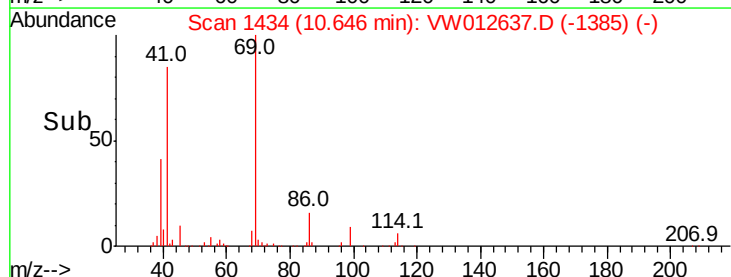


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

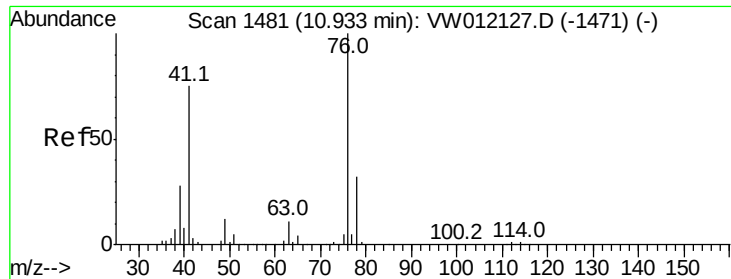
Ion 39.00 (38.70 to 39.70): VW

Time-->



Time-->

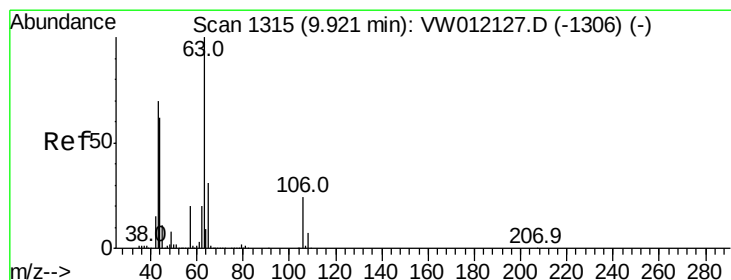
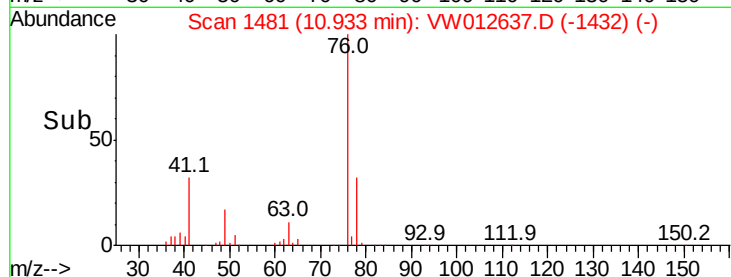
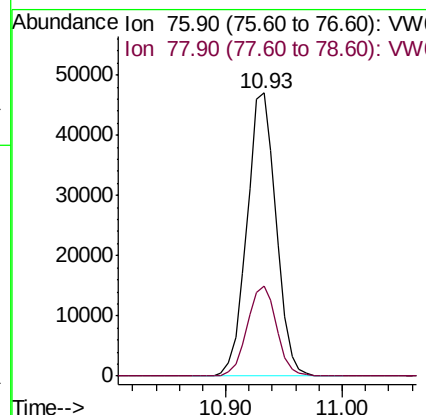
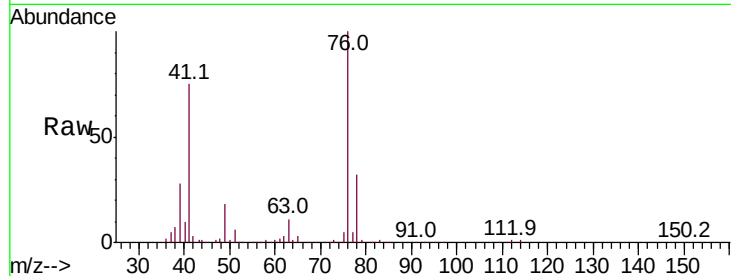




#57  
 1,3-Dichloropropane  
 Concen: 23.184 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

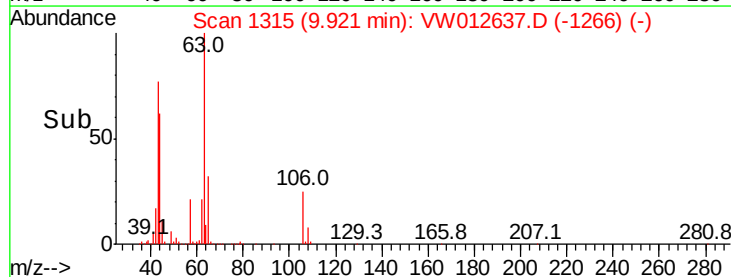
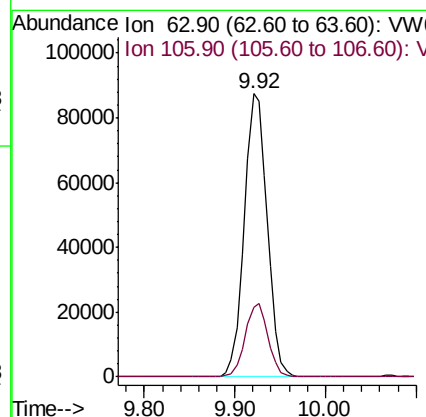
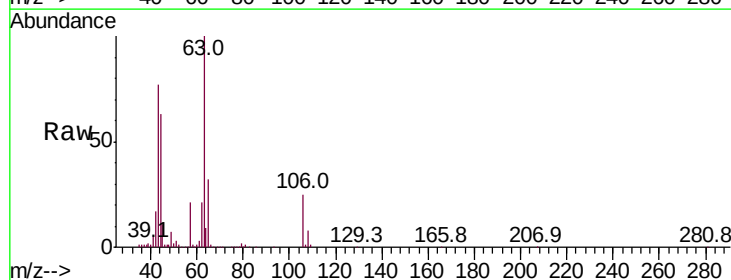
Instrument :  
 MSVOA\_W  
 ClientSampled :

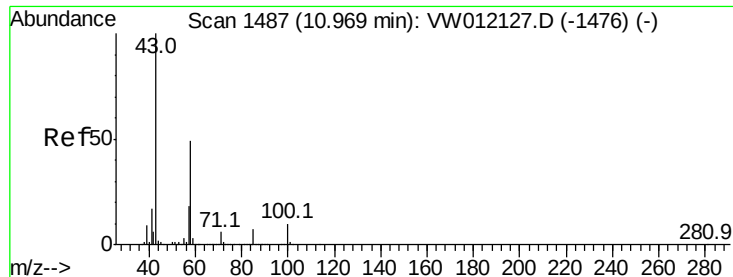
Tot Ion: 76 Resp: 82341  
 Ion Ratio Lower Upper  
 76 100  
 78 32.2 25.8 38.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 109.184 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 63 Resp: 153278  
 Ion Ratio Lower Upper  
 63 100  
 106 25.5 19.8 29.8





#59

2-Hexanone

Concen: 110.719 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

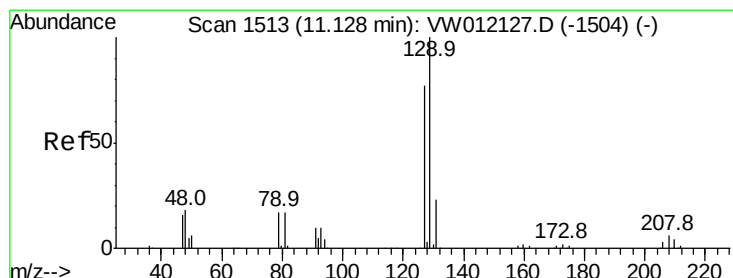
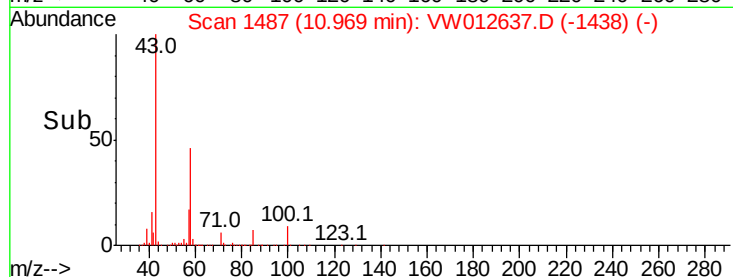
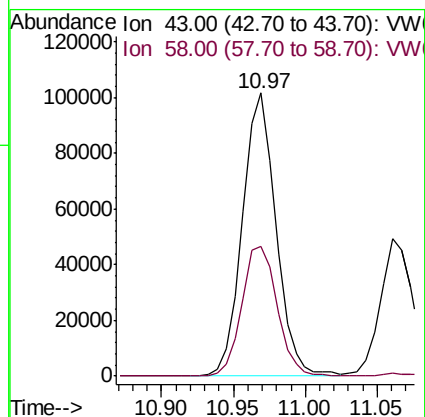
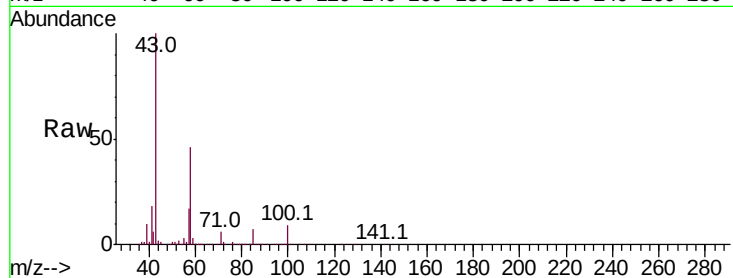
ClientSampled :

Tot Ion: 43 Resp: 164317

Ion Ratio Lower Upper

43 100

58 48.4 24.3 72.9



#60

Dibromochloromethane

Concen: 23.632 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW012637.D

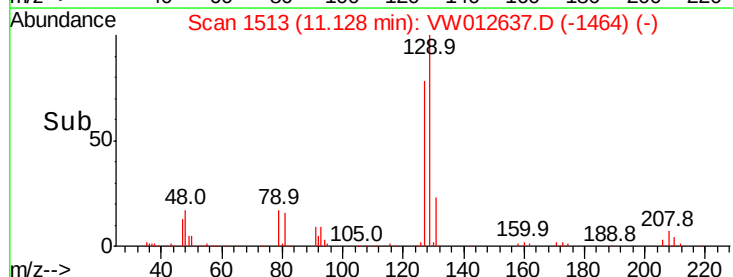
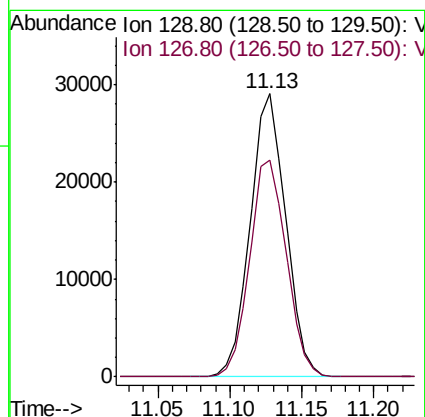
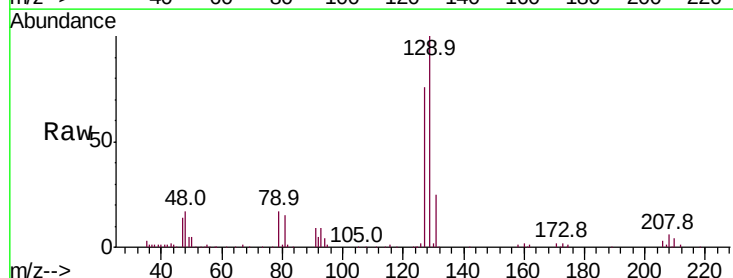
Acq: 05 Sep 2019 13:32

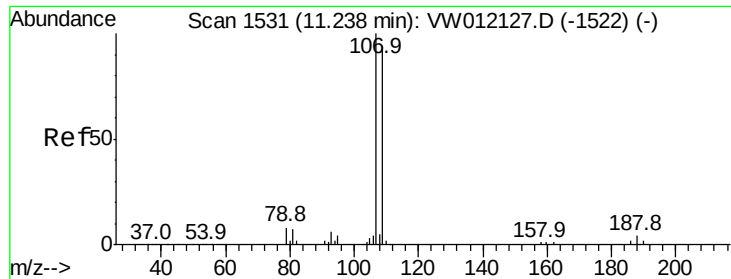
Tgt Ion: 129 Resp: 49471

Ion Ratio Lower Upper

129 100

127 79.0 38.6 115.8

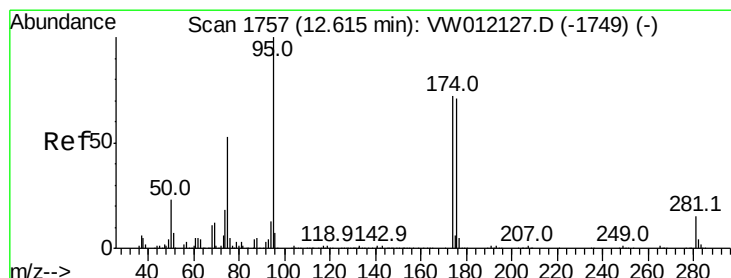
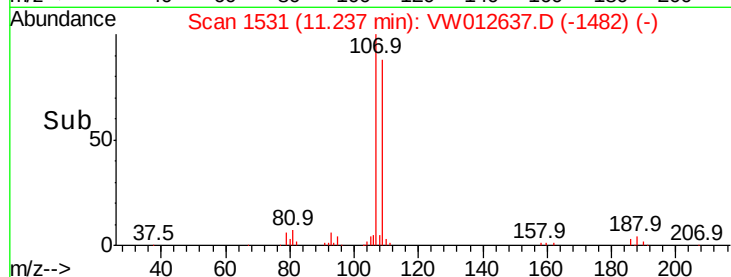
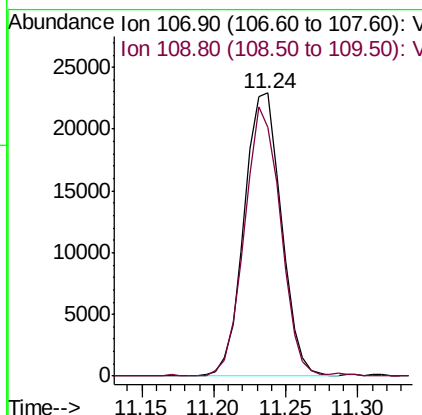
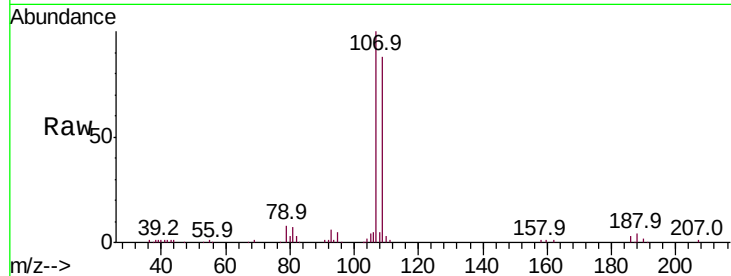




#61  
 1,2-Dibromoethane  
 Concen: 23.401 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

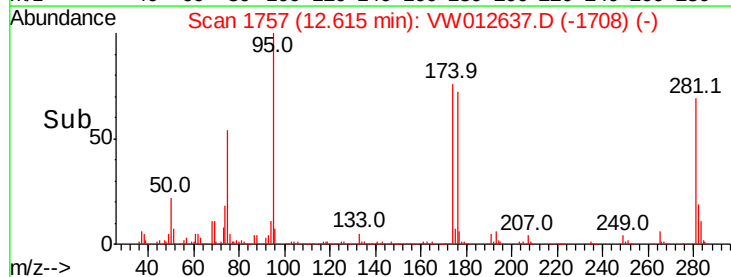
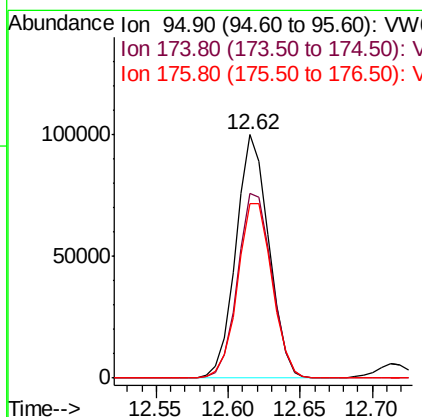
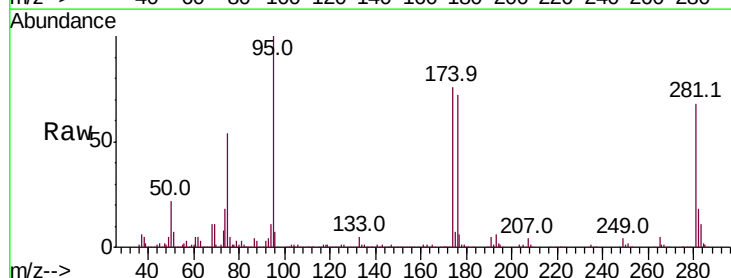
Instrument :  
 MSVOA\_W  
 ClientSampled :

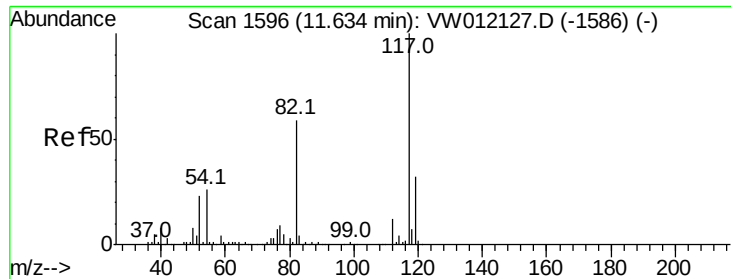
Tot Ion:107 Resp: 40973  
 Ion Ratio Lower Upper  
 107 100  
 109 92.1 75.4 113.2



#62  
 4-Bromofluorobenzene  
 Concen: 47.012 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion: 95 Resp: 157681  
 Ion Ratio Lower Upper  
 95 100  
 174 78.9 0.0 150.8  
 176 75.5 0.0 148.6

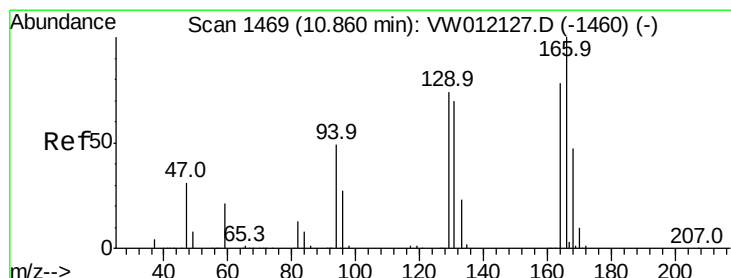
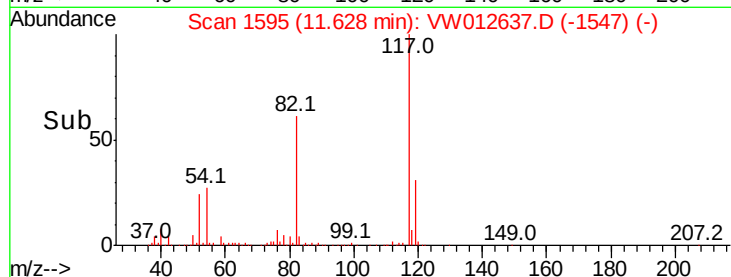
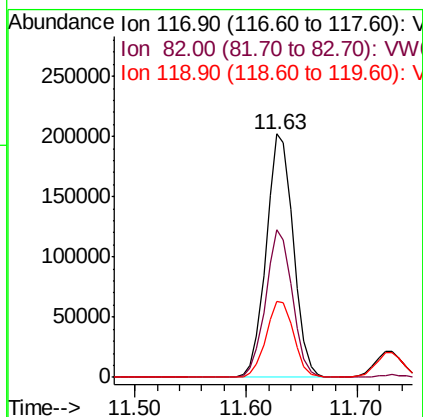
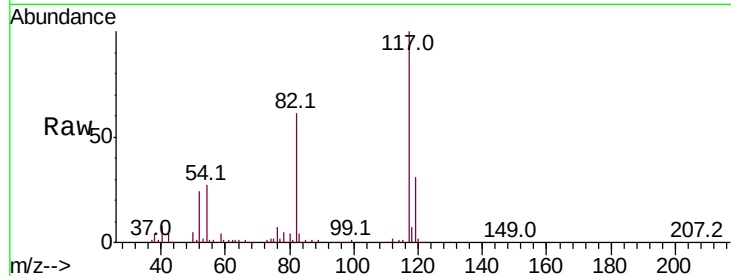




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

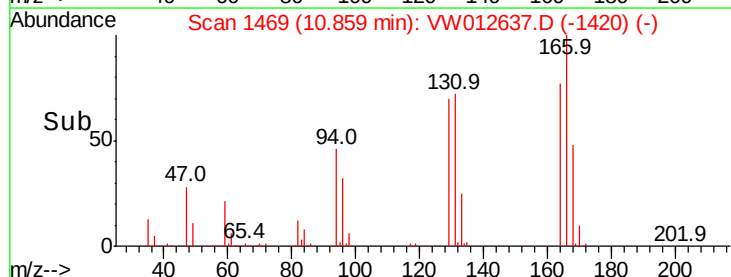
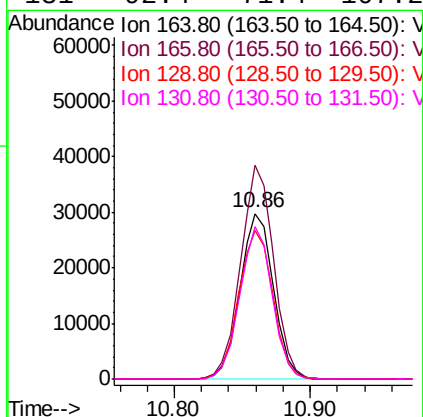
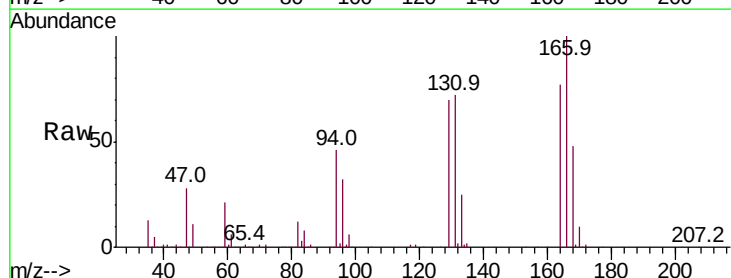
Instrument :  
MSVOA\_W  
ClientSampleId :

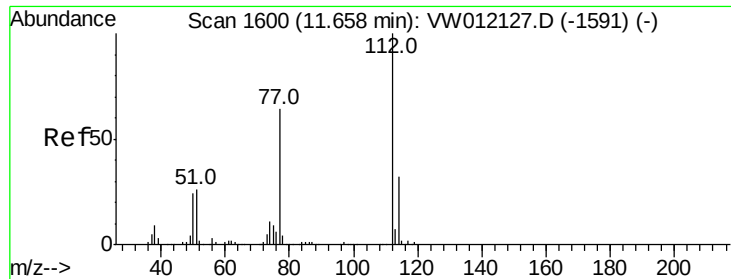
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.6  | 47.4  | 71.2  |
| 119     | 31.0  | 25.4  | 38.2  |



#64  
Tetrachloroethene  
Concen: 22.996 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 129.2 | 102.4 | 153.6 |
| 129     | 89.9  | 75.8  | 113.6 |
| 131     | 92.4  | 71.4  | 107.2 |

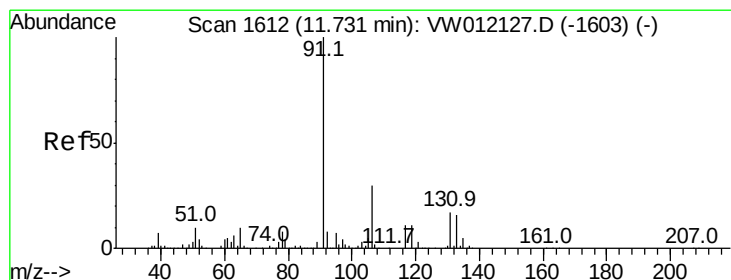
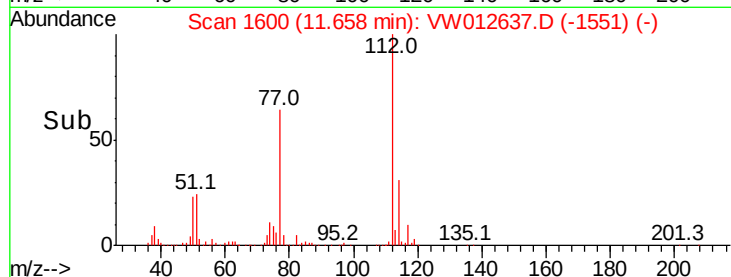
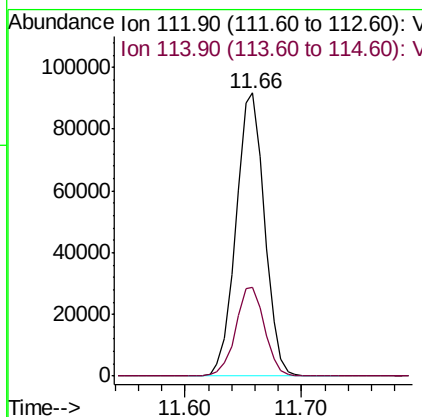
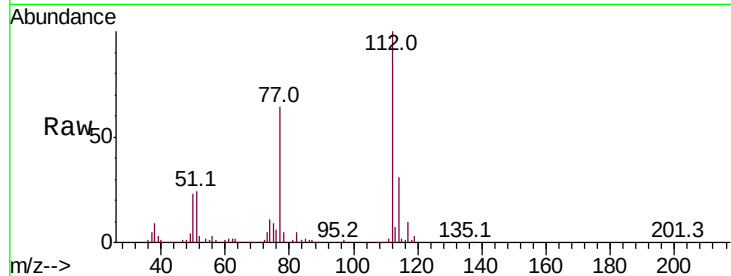




#65  
Chlorobenzene  
Concen: 23.288 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

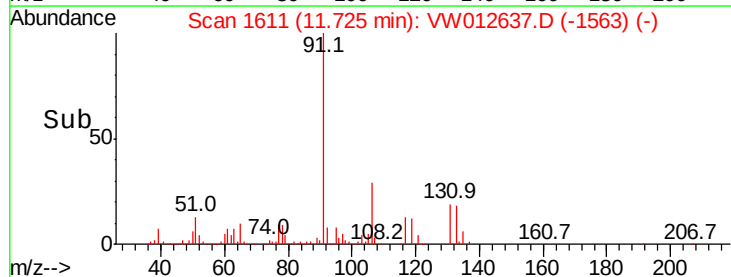
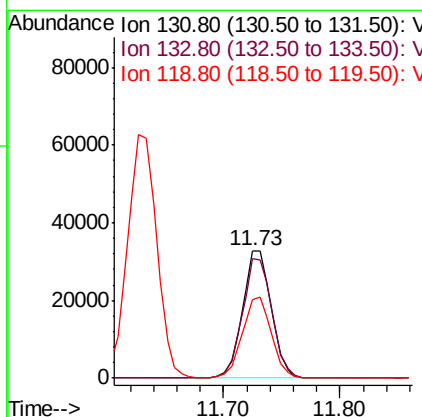
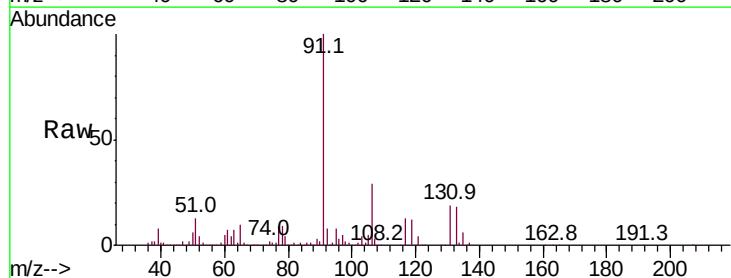
Instrument :  
MSVOA\_W  
ClientSampleId :

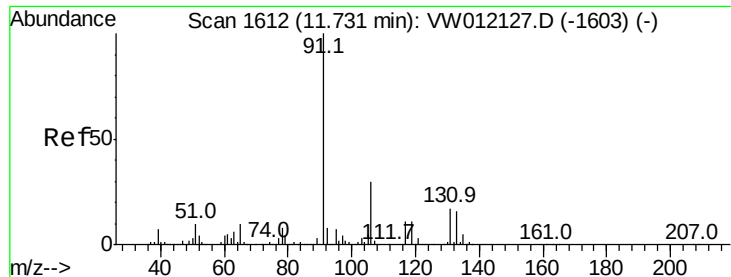
Tot Ion:112 Resp: 156954  
Ion Ratio Lower Upper  
112 100  
114 31.4 25.8 38.6



#66  
1,1,1,2-Tetrachloroethane  
Concen: 24.131 ug/l  
RT: 11.73 min Scan# 1611  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion:131 Resp: 56737  
Ion Ratio Lower Upper  
131 100  
133 96.0 47.1 141.3  
119 63.5 31.8 95.3

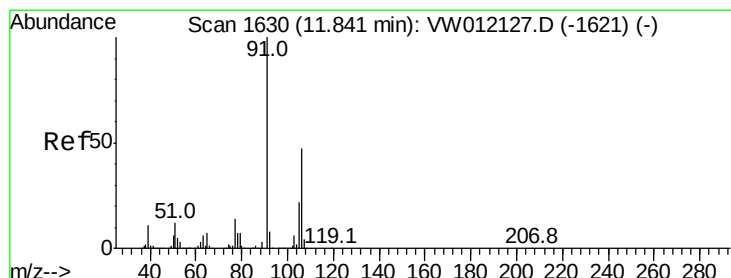
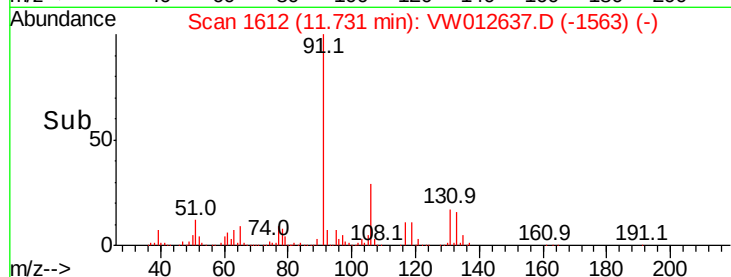
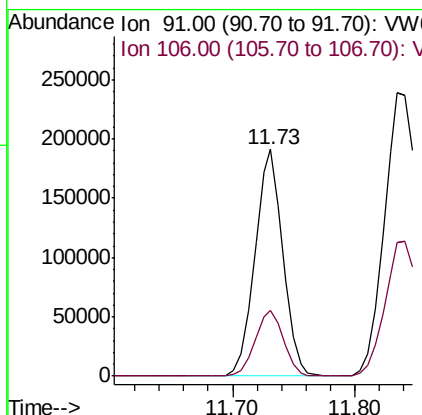
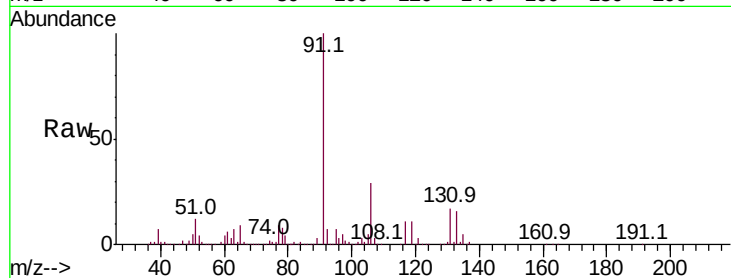




#67  
Ethyl Benzene  
Concen: 23.328 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

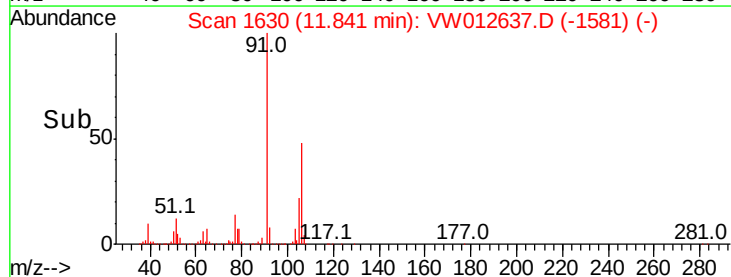
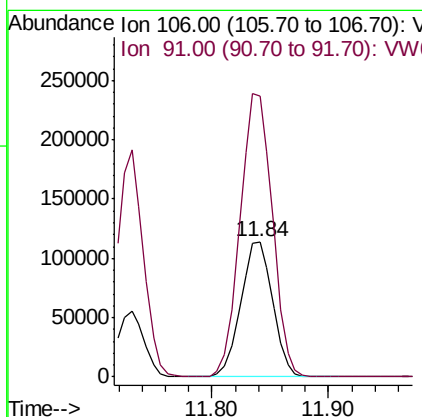
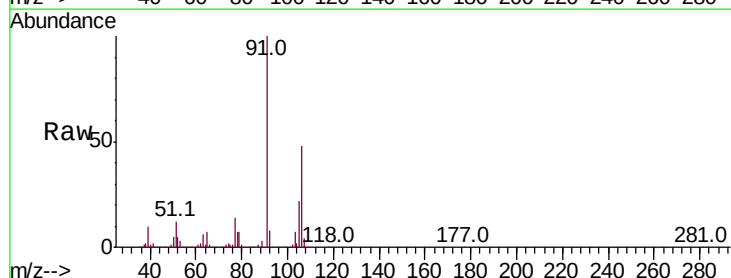
Instrument :  
MSVOA\_W  
ClientSampleId :

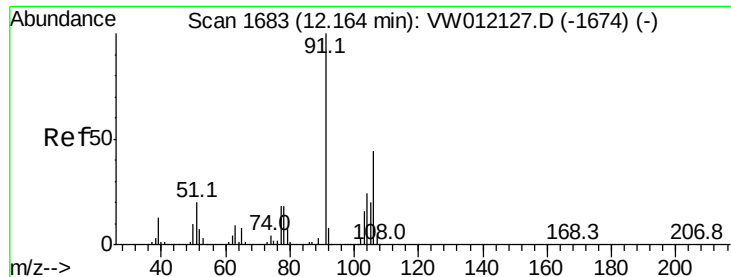
Tot Ion: 91 Resp: 302855  
Ion Ratio Lower Upper  
91 100  
106 28.8 24.3 36.5



#68  
m/p-Xylenes  
Concen: 46.569 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion:106 Resp: 217781  
Ion Ratio Lower Upper  
106 100  
91 211.8 169.5 254.3

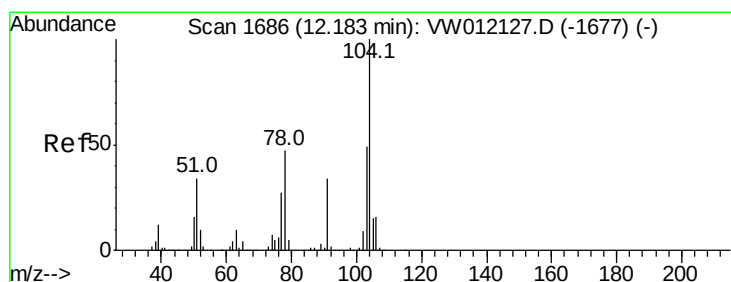
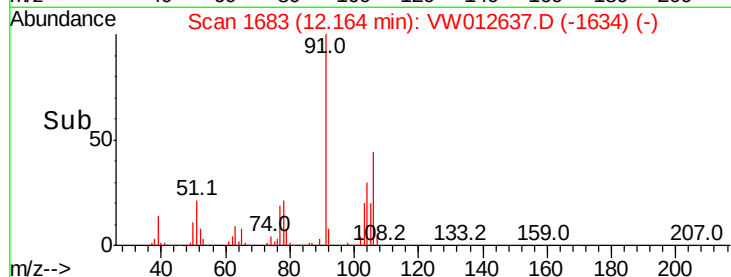
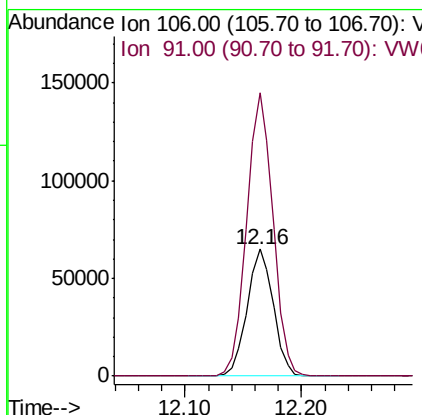
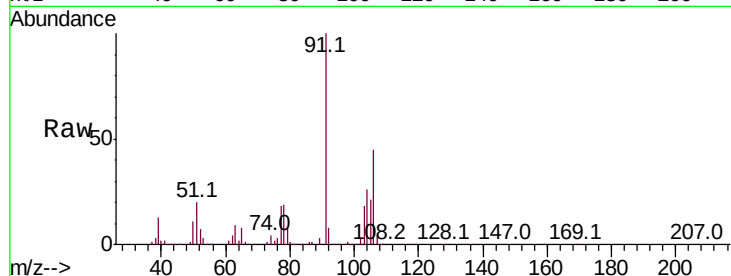




#69  
o-Xylene  
Concen: 23.679 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

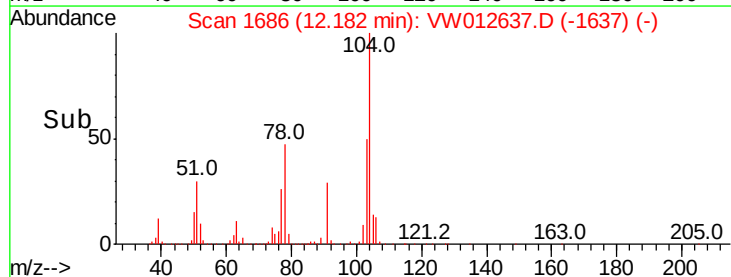
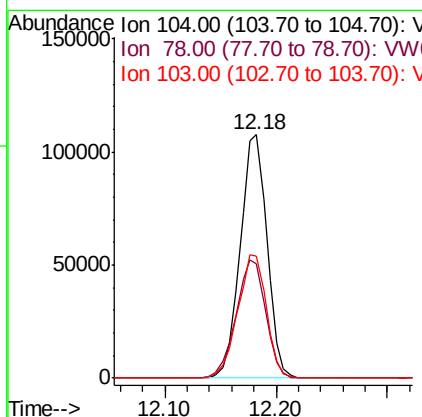
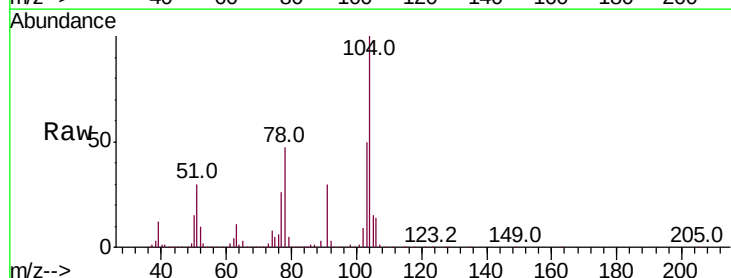
Instrument :  
MSVOA\_W  
ClientSampled :

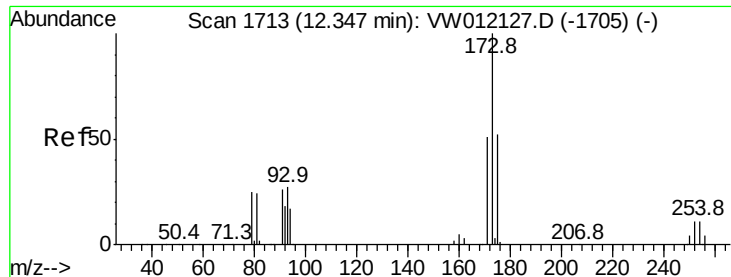
Tot Ion:106 Resp: 102489  
Ion Ratio Lower Upper  
106 100  
91 223.1 111.6 334.6



#70  
Styrene  
Concen: 23.937 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion:104 Resp: 179328  
Ion Ratio Lower Upper  
104 100  
78 53.7 43.1 64.7  
103 54.4 43.5 65.3





#71

Bromoform

Concen: 24.457 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampled :

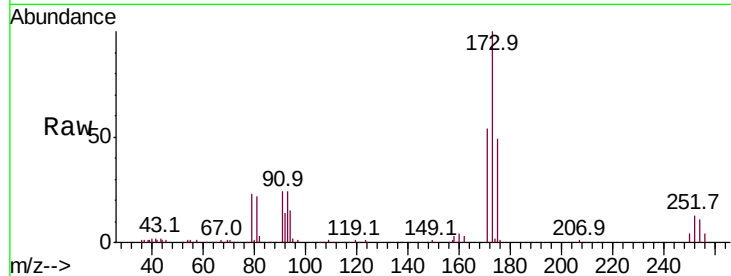
Tot Ion:173 Resp: 28650

Ion Ratio Lower Upper

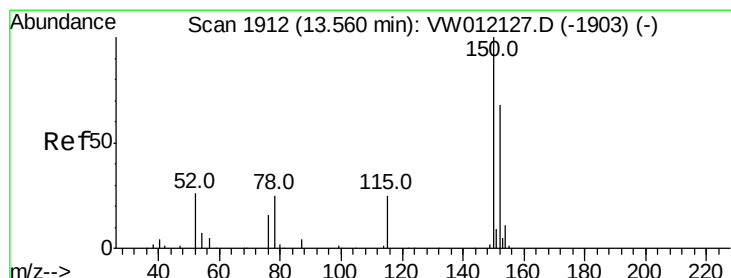
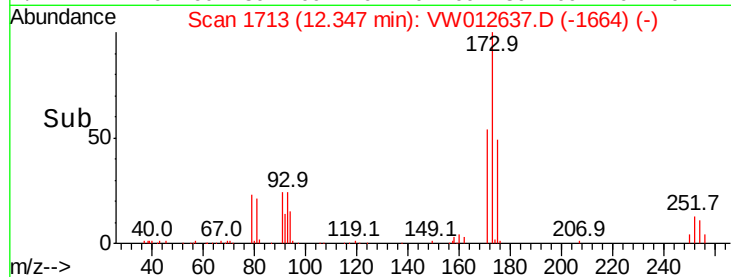
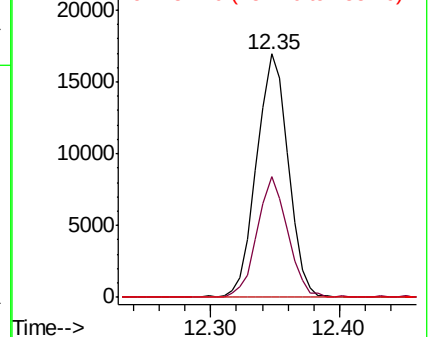
173 100

175 48.1 24.6 74.0

254 0.0 0.2 0.2#



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: VW012637.D

Acq: 05 Sep 2019 13:32

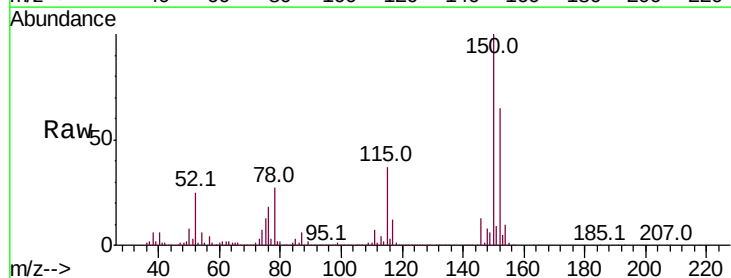
Tgt Ion:152 Resp: 167507

Ion Ratio Lower Upper

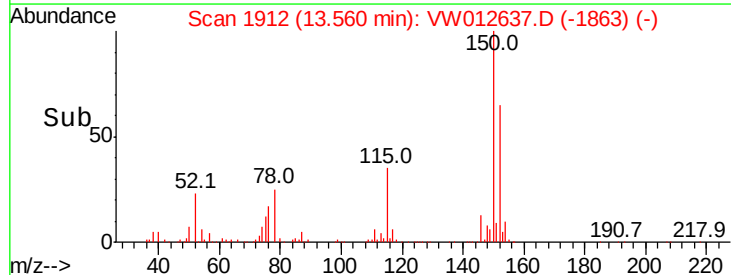
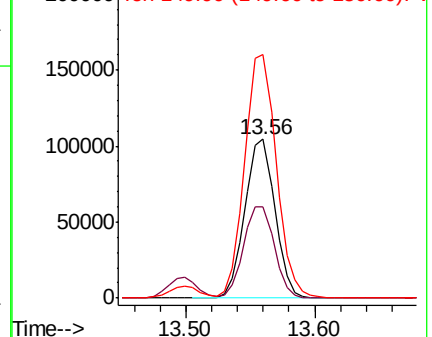
152 100

115 59.2 30.1 90.3

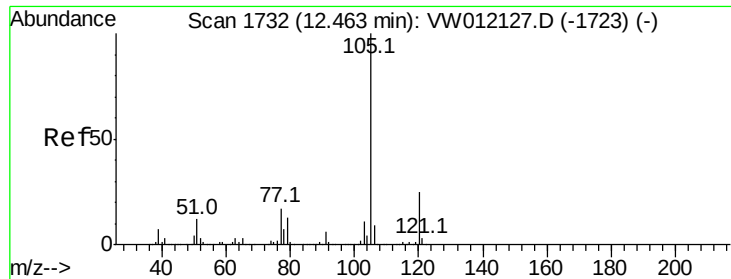
150 162.6 0.0 345.8



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







#73

Isopropylbenzene

Concen: 23.600 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

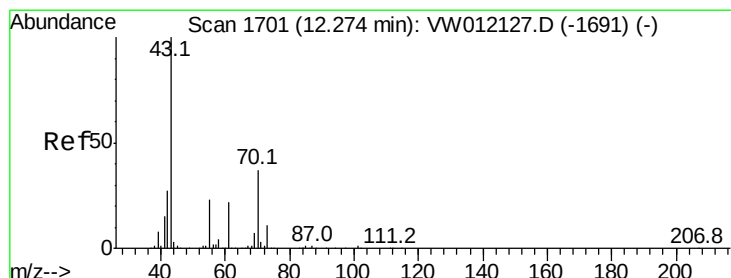
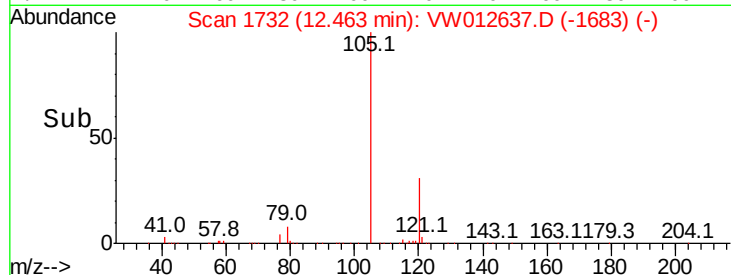
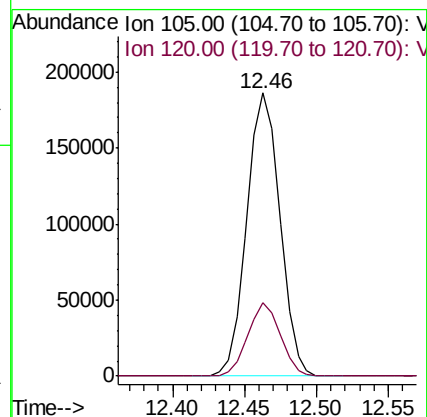
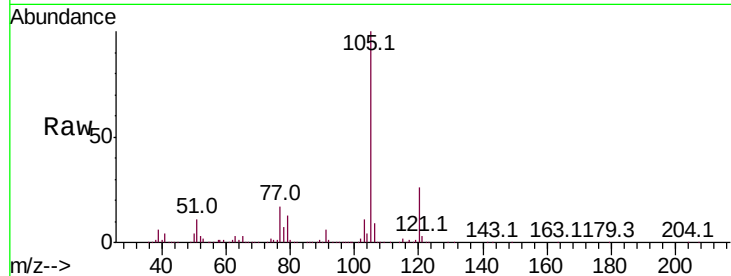
ClientSampleId :

Tot Ion:105 Resp: 296221

Ion Ratio Lower Upper

105 100

120 25.4 12.5 37.5



#74

N-ethyl acetate

Concen: 21.754 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Tgt Ion: 43 Resp: 82496

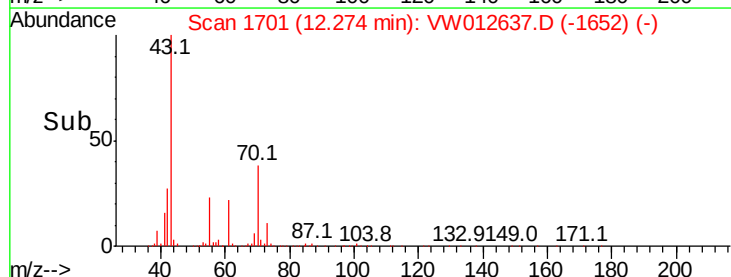
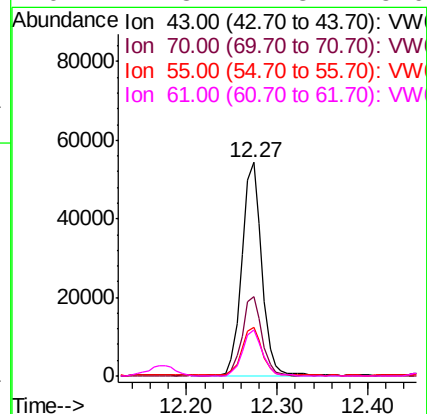
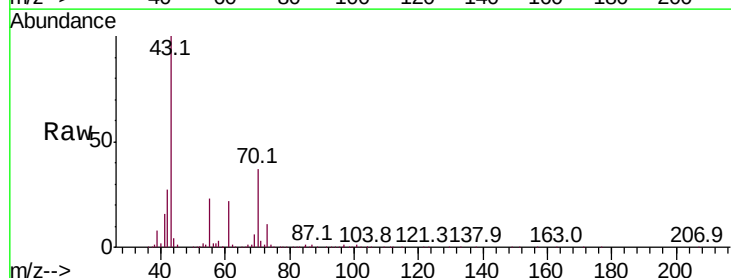
Ion Ratio Lower Upper

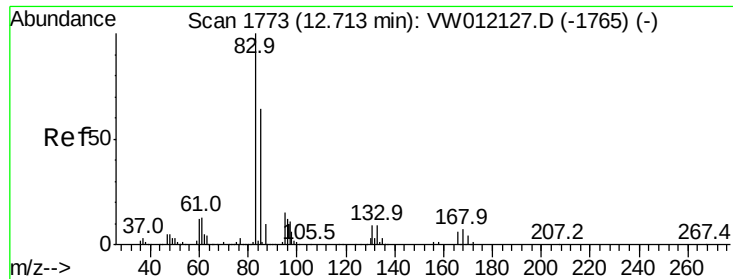
43 100

70 36.7 28.6 43.0

55 22.5 17.8 26.6

61 21.8 17.3 25.9





#75

1,1,2,2-Tetrachloroethane

Concen: 22.343 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampled :

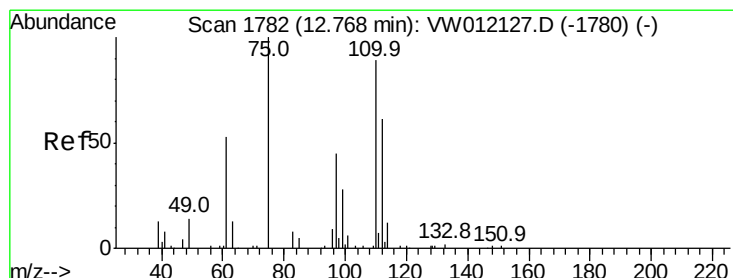
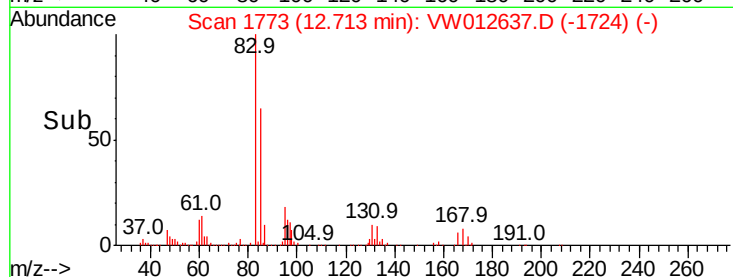
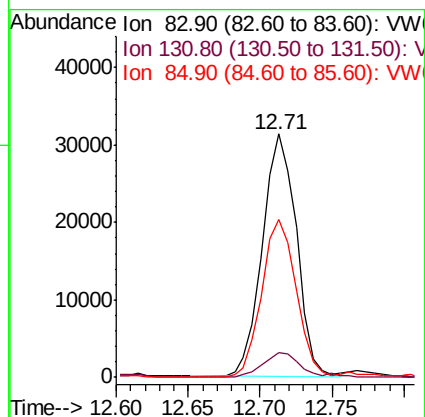
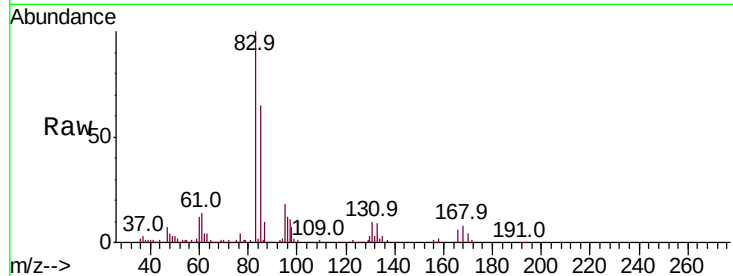
Tot Ion: 83 Resp: 51412

Ion Ratio Lower Upper

83 100

131 11.2 4.9 14.7

85 65.6 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 42.098 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012637.D

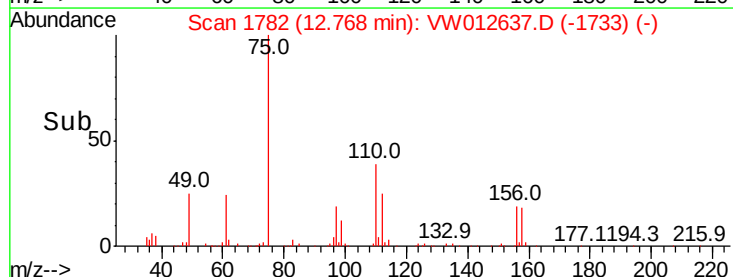
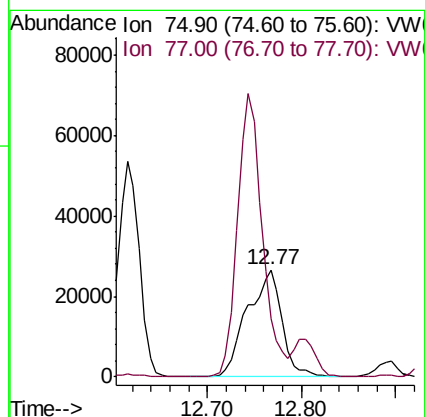
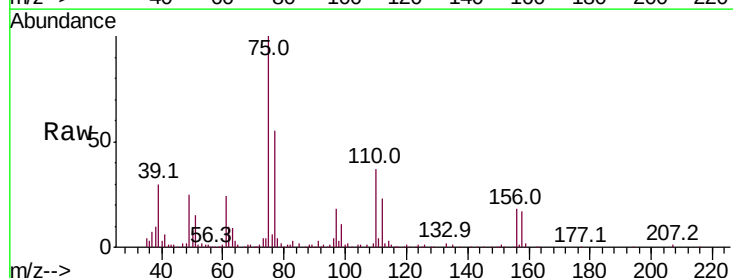
Acq: 05 Sep 2019 13:32

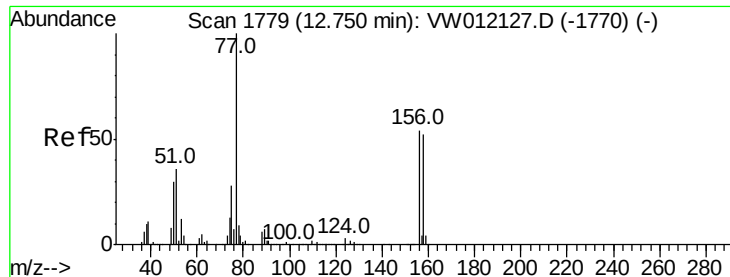
Tgt Ion: 75 Resp: 68678

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 23.858 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampleId :

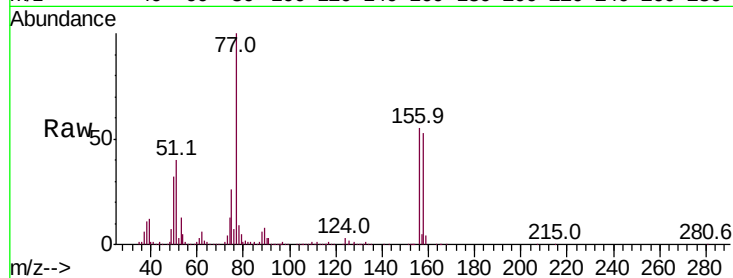
Tot Ion:156 Resp: 64785

Ion Ratio Lower Upper

156 100

77 200.2 107.3 321.8

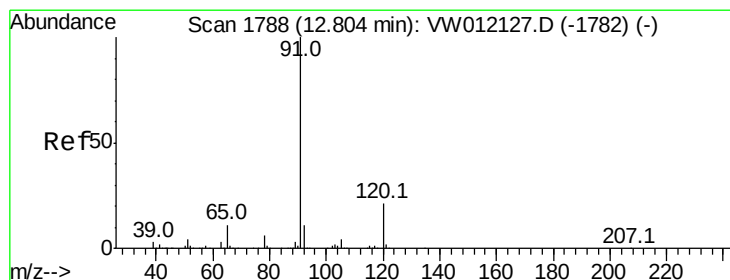
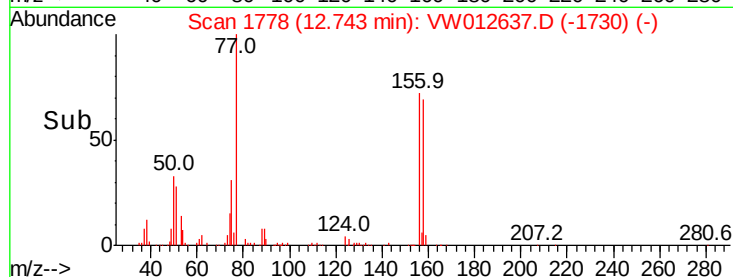
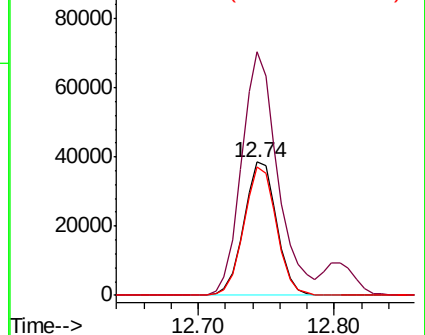
158 95.7 49.0 147.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 23.166 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012637.D

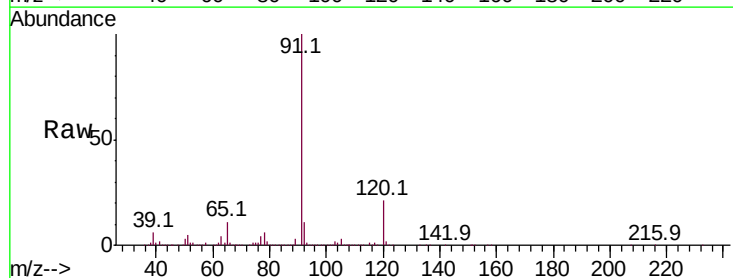
Acq: 05 Sep 2019 13:32

Tgt Ion: 91 Resp: 354973

Ion Ratio Lower Upper

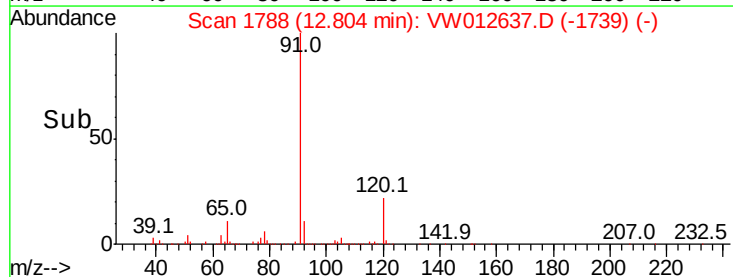
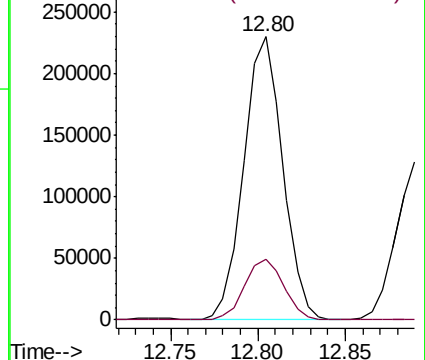
91 100

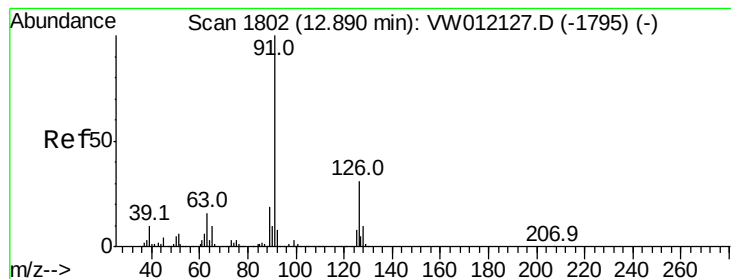
120 21.8 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.213 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

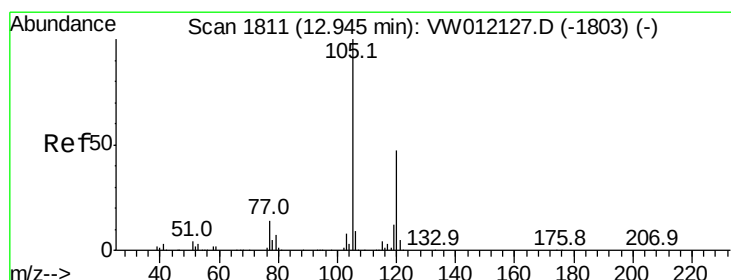
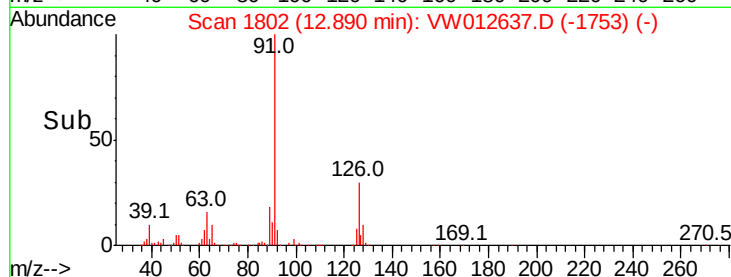
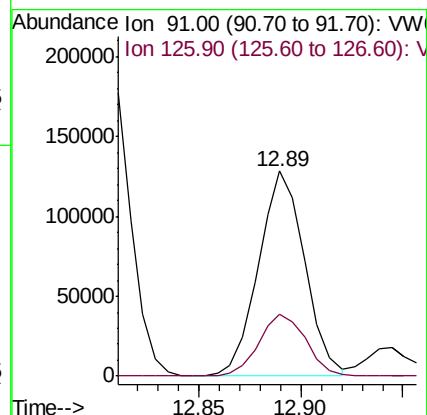
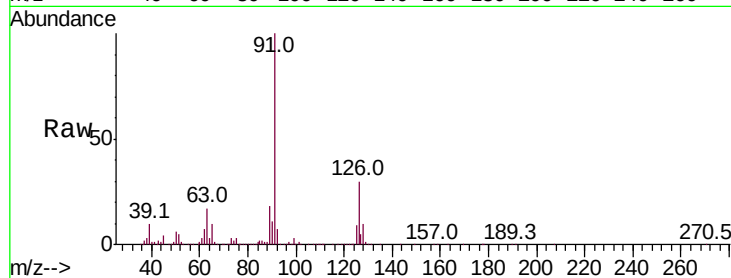
ClientSampled :

Tot Ion: 91 Resp: 201941

Ion Ratio Lower Upper

91 100

126 31.0 15.7 47.0



#80

1,3,5-Trimethylbenzene

Concen: 23.615 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012637.D

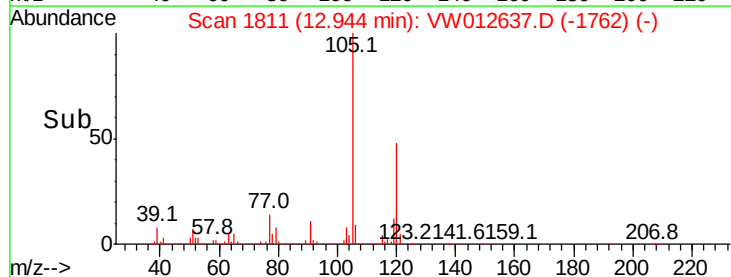
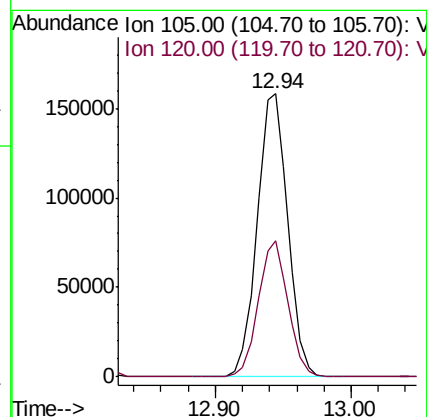
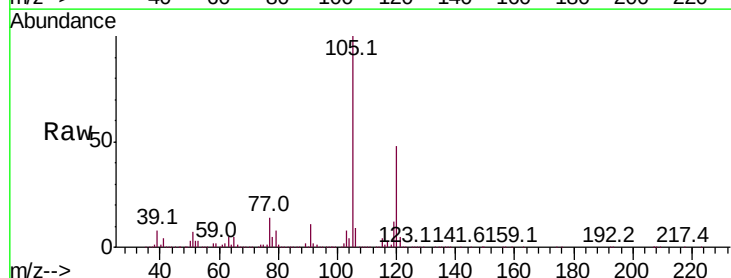
Acq: 05 Sep 2019 13:32

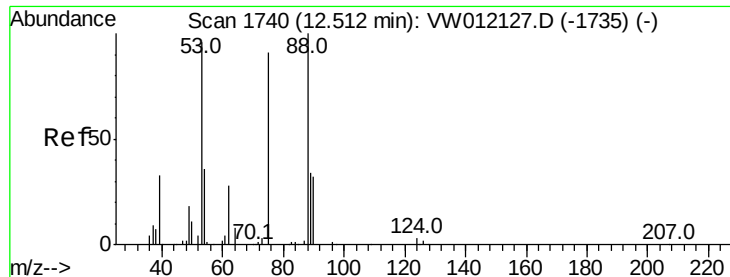
Tgt Ion:105 Resp: 247673

Ion Ratio Lower Upper

105 100

120 47.1 24.0 72.0

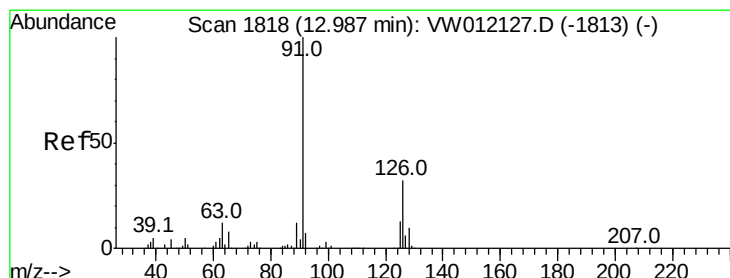
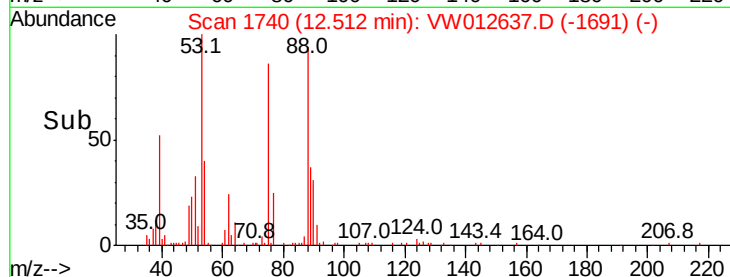
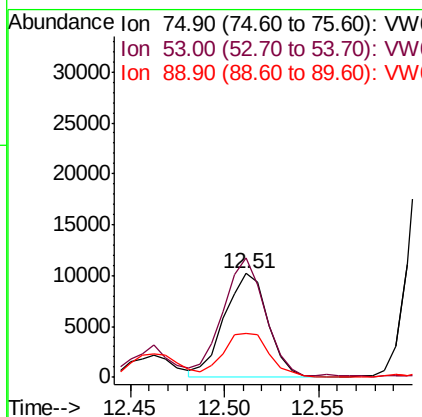
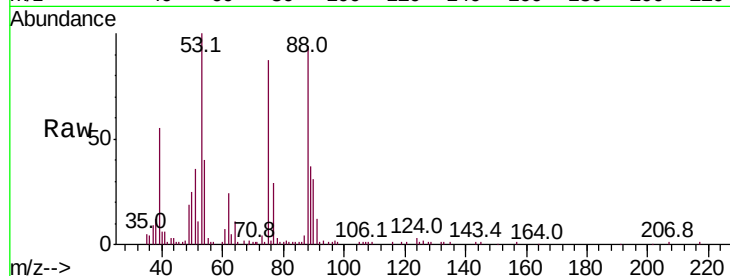




#81  
trans-1,4-Dichloro-2-butene  
Concen: 22.032 ug/l  
RT: 12.51 min Scan# 1740  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

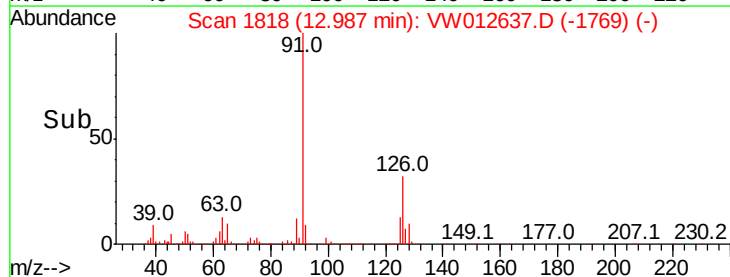
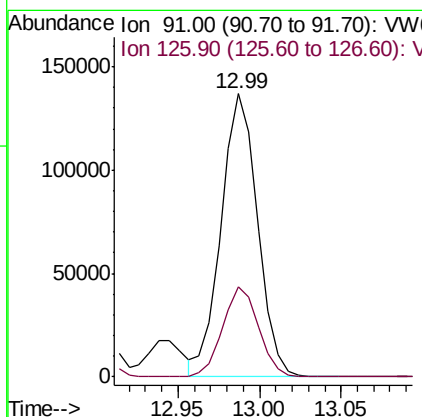
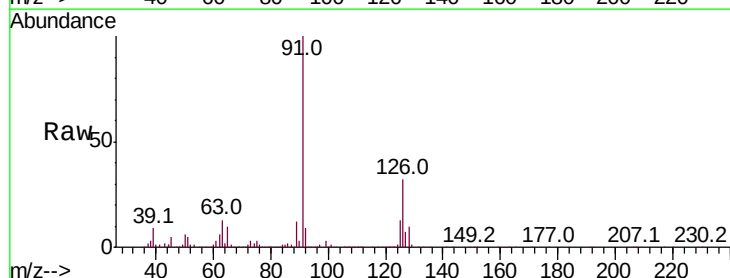
Instrument :  
MSVOA\_W  
ClientSampled :

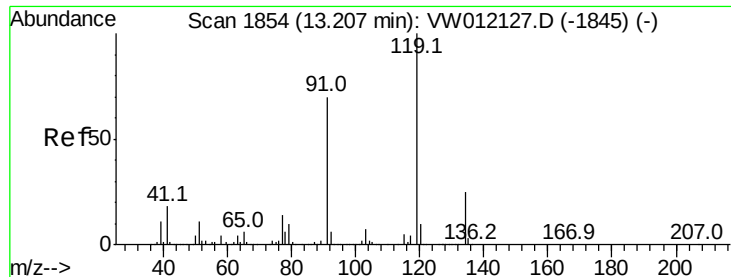
Tot Ion: 75 Resp: 16393  
Ion Ratio Lower Upper  
75 100  
53 111.6 89.4 134.0  
89 44.8 34.5 51.7



#82  
4-Chlorotoluene  
Concen: 23.292 ug/l  
RT: 12.99 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion: 91 Resp: 212169  
Ion Ratio Lower Upper  
91 100  
126 31.7 15.6 46.8

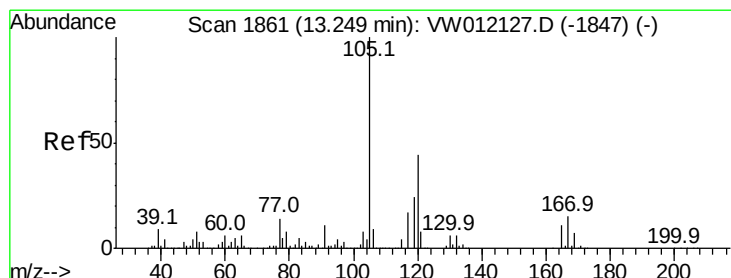
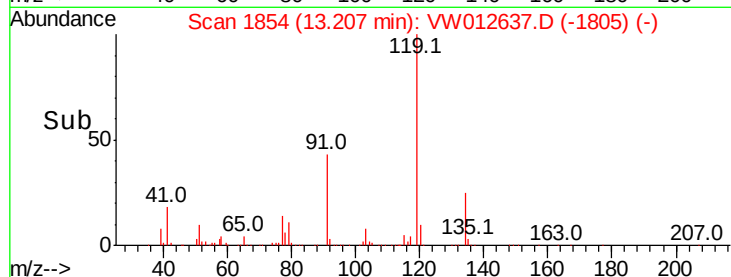
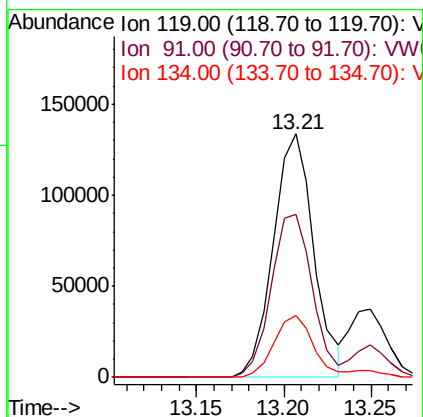
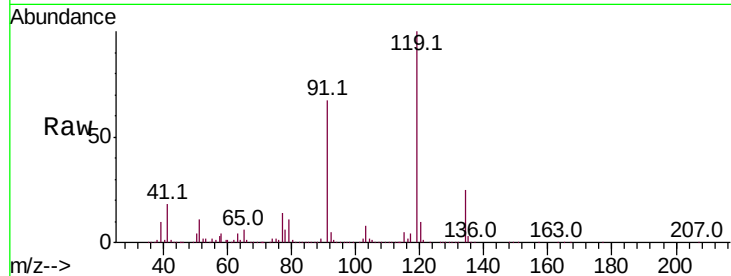




#83  
tert-Butylbenzene  
Concen: 24.313 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

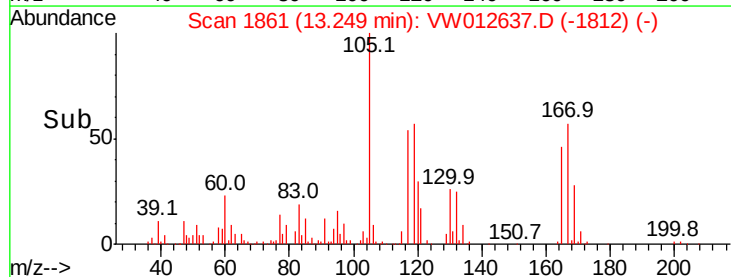
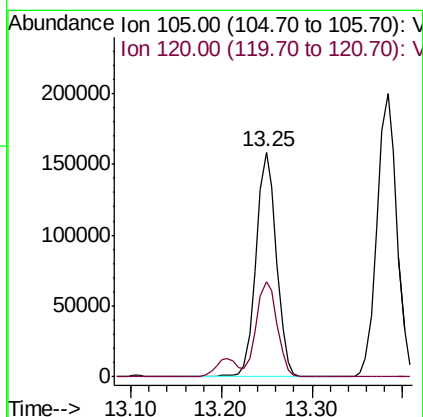
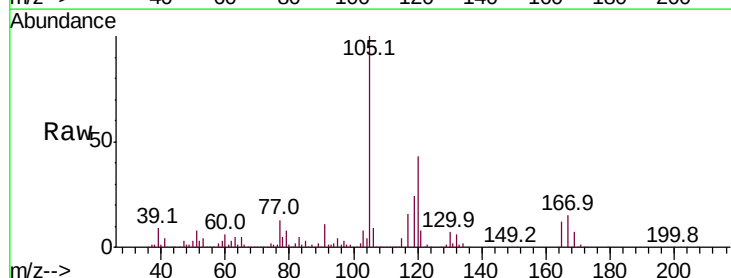
Instrument :  
MSVOA\_W  
ClientSampled :

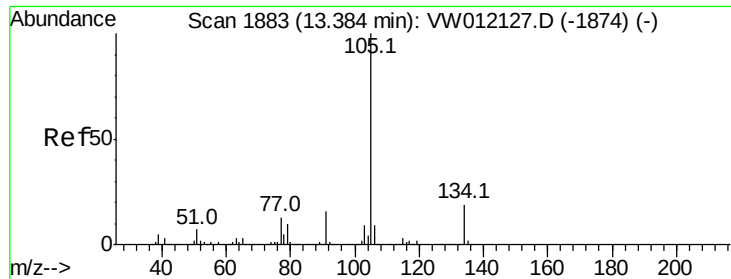
Tot Ion:119 Resp: 216002  
Ion Ratio Lower Upper  
119 100  
91 68.2 34.8 104.3  
134 24.9 13.3 39.8



#84  
1,2,4-Trimethylbenzene  
Concen: 23.256 ug/l  
RT: 13.25 min Scan# 1861  
Delta R.T. -0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion:105 Resp: 245011  
Ion Ratio Lower Upper  
105 100  
120 43.3 21.9 65.7

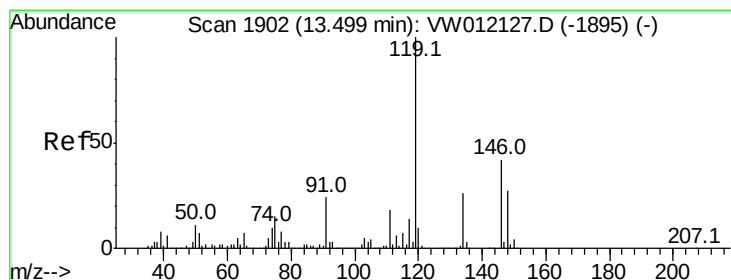
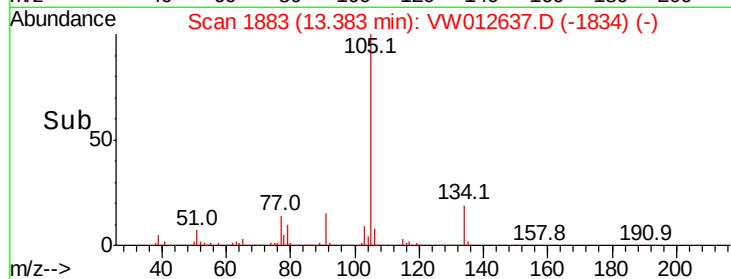
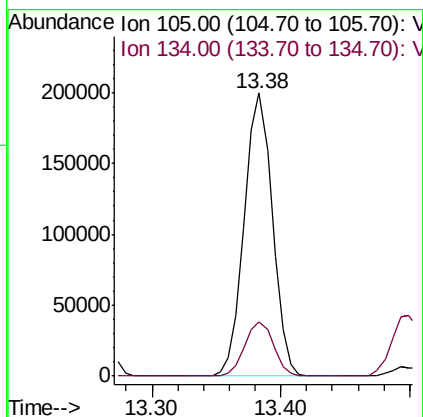
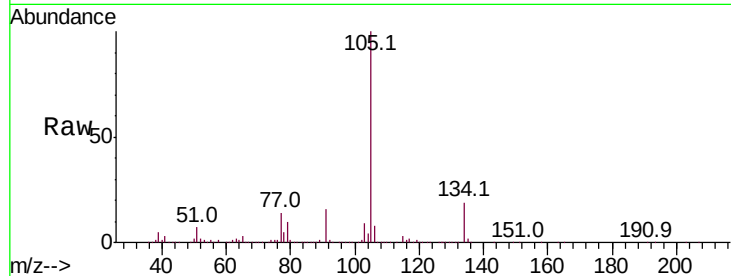




#85  
 sec-Butylbenzene  
 Concen: 23.653 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

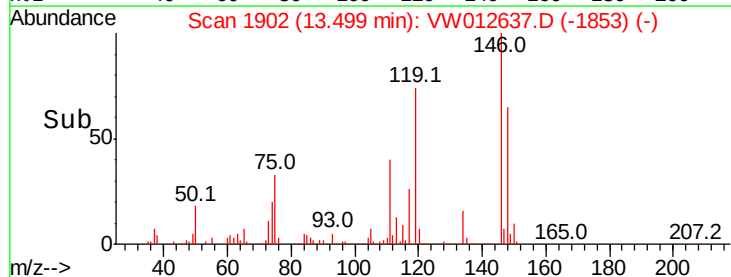
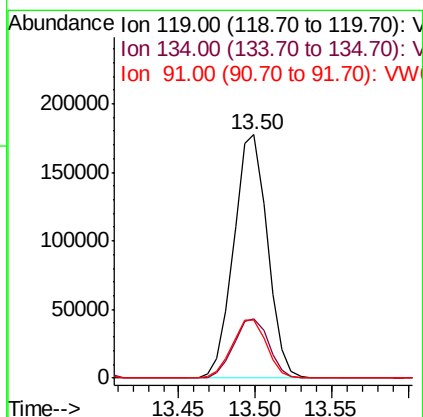
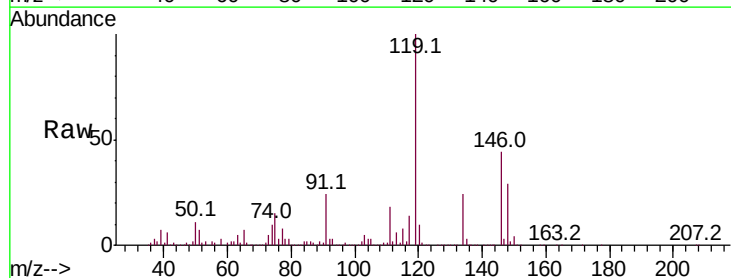
Instrument :  
 MSVOA\_W  
 ClientSampleId :

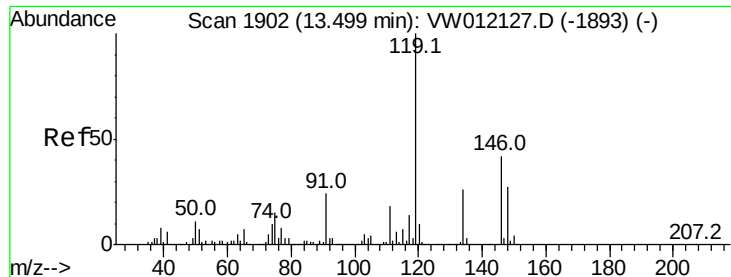
Tot Ion:105 Resp: 301058  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 9.8 29.4



#86  
 p-Isopropyltoluene  
 Concen: 23.813 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Tgt Ion:119 Resp: 270683  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 12.8 38.3  
 91 24.7 12.3 36.9

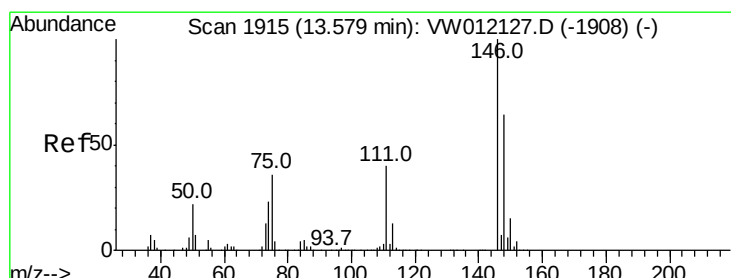
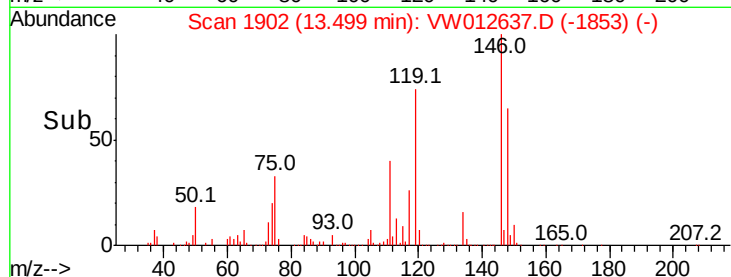
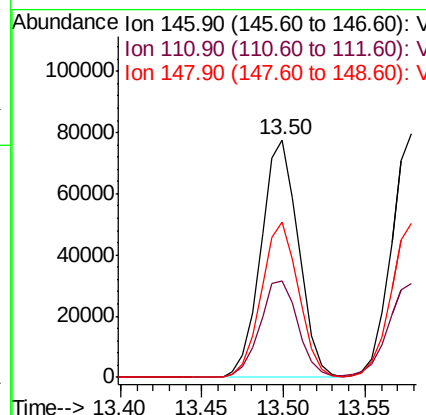
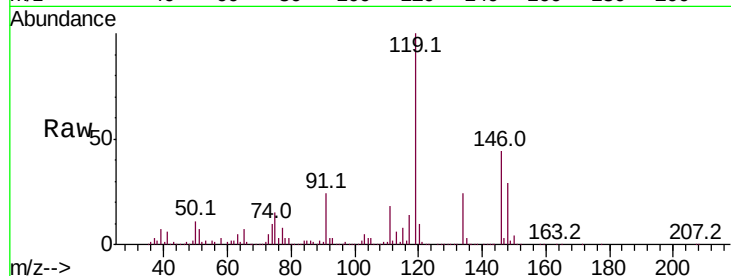




#87  
 1,3-Dichlorobenzene  
 Concen: 23.336 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

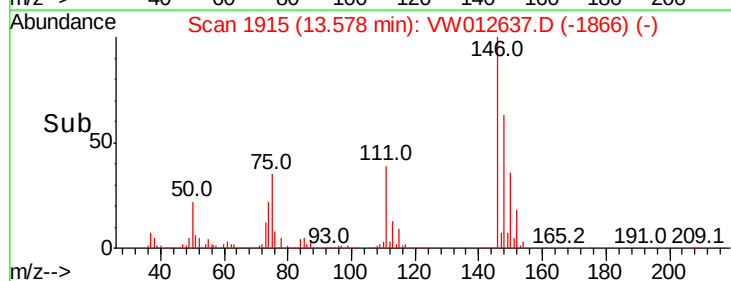
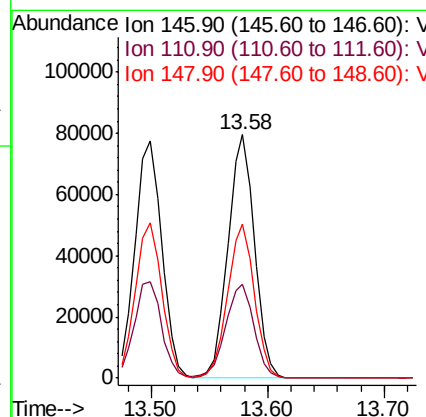
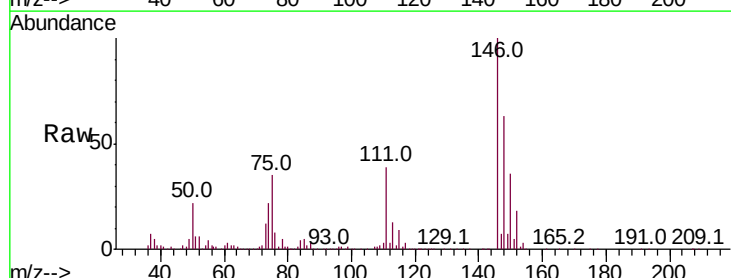
Instrument :  
 MSVOA\_W  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 20.9  | 62.7  |
| 148     | 64.7  | 32.2  | 96.6  |

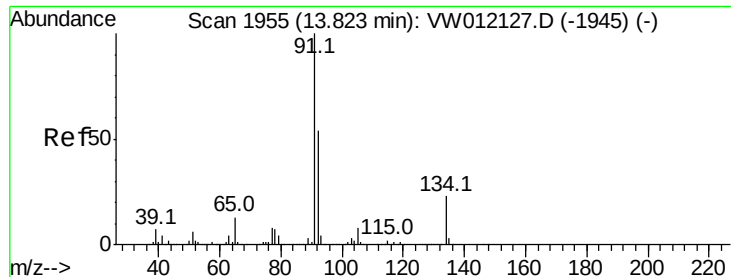


#88  
 1,4-Dichlorobenzene  
 Concen: 23.751 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.6  | 20.0  | 60.0  |
| 148     | 63.4  | 32.1  | 96.3  |







#89

n-Butylbenzene

Concen: 23.591 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW012637.D

Acq: 05 Sep 2019 13:32

Instrument :

MSVOA\_W

ClientSampled :

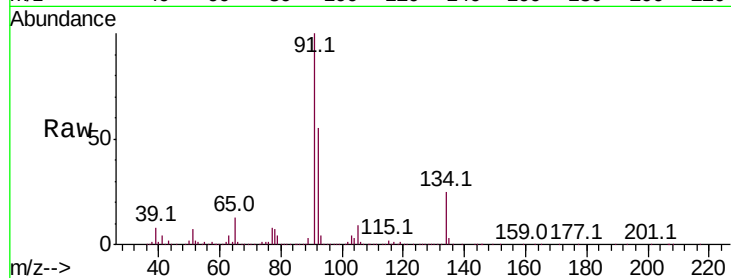
Tot Ion: 91 Resp: 266675

Ion Ratio Lower Upper

91 100

92 54.3 27.1 81.2

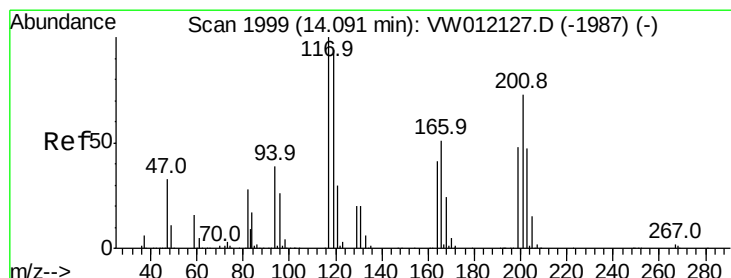
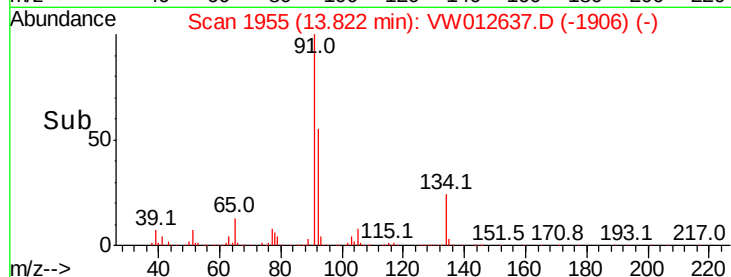
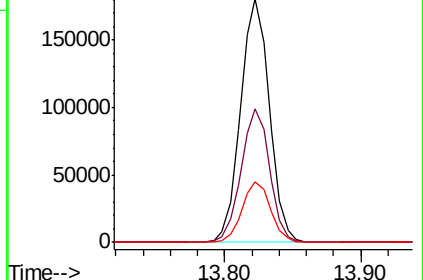
134 24.8 12.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 22.538 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW012637.D

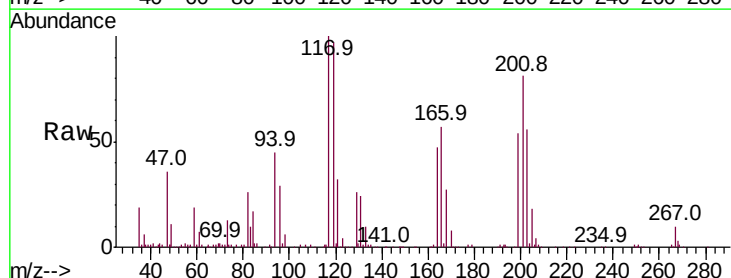
Acq: 05 Sep 2019 13:32

Tgt Ion: 117 Resp: 44948

Ion Ratio Lower Upper

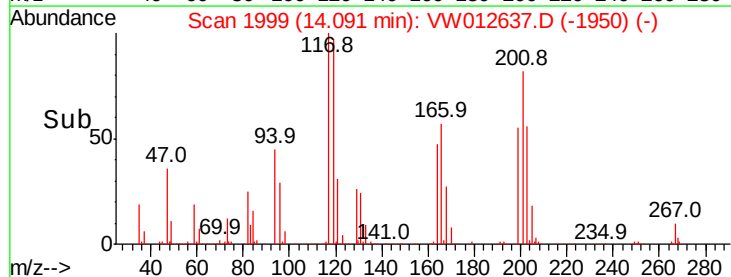
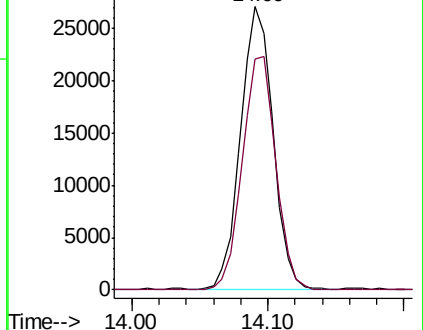
117 100

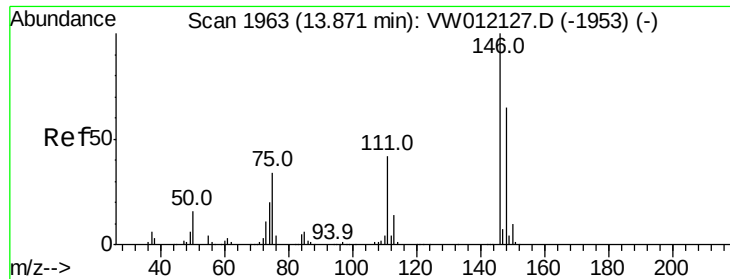
201 85.3 38.6 115.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

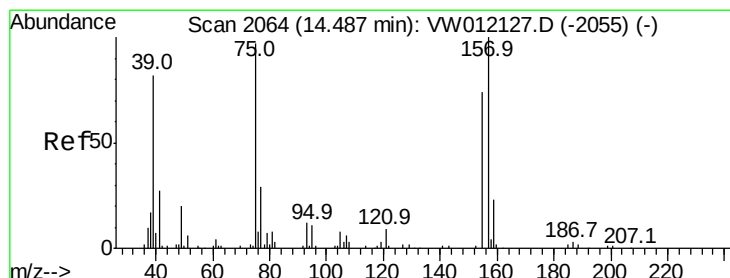
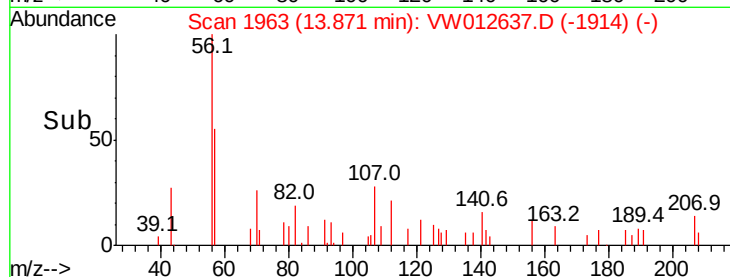
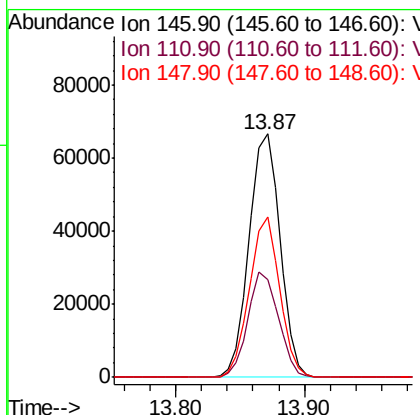
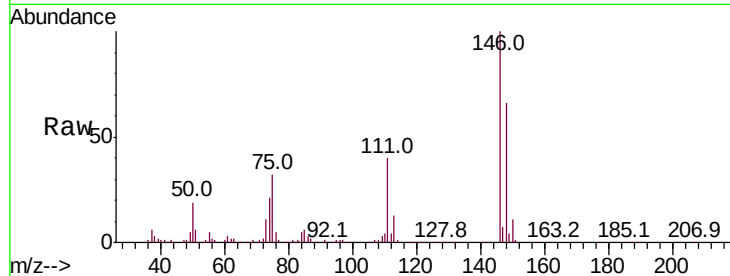




#91  
 1,2-Dichlorobenzene  
 Concen: 23.776 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

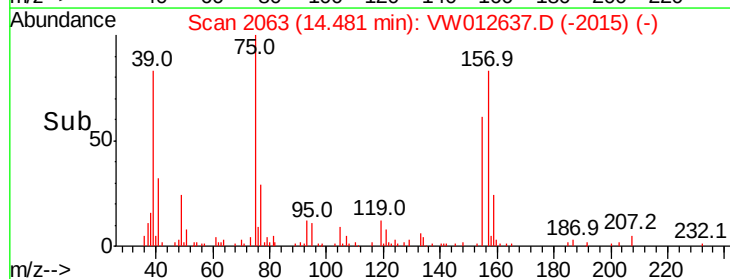
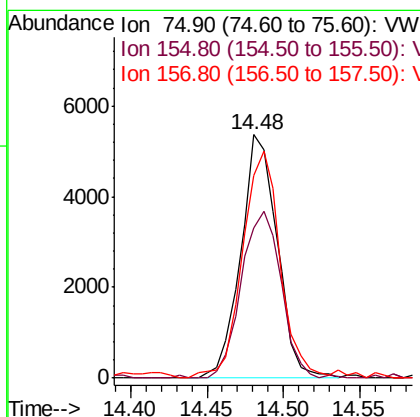
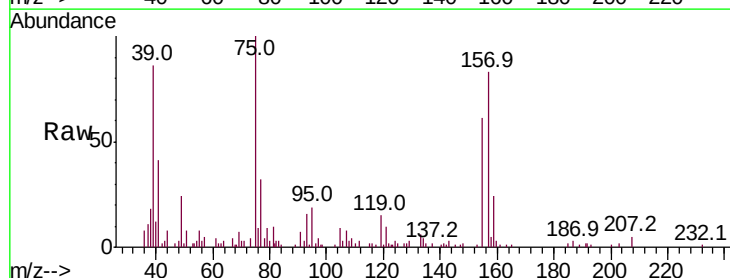
Instrument :  
 MSVOA\_W  
 ClientSampleId :

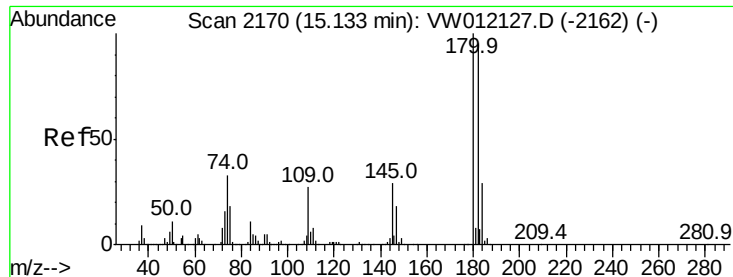
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.4  | 21.2  | 63.6  |
| 148     | 64.3  | 32.5  | 97.4  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 22.956 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 74.7  | 37.5  | 112.3 |
| 157     | 96.2  | 50.5  | 151.5 |

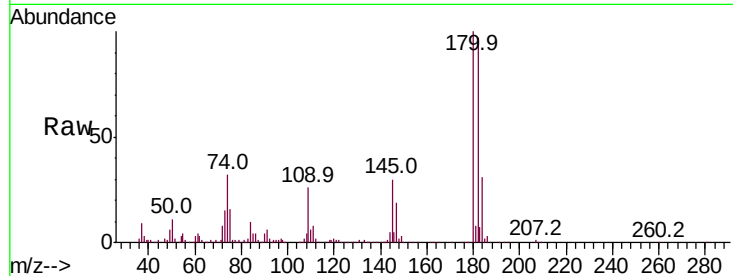




#93  
 1,2,4-Trichlorobenzene  
 Concen: 24.041 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.2  | 47.8  | 143.4 |
| 145     | 30.8  | 15.0  | 45.1  |

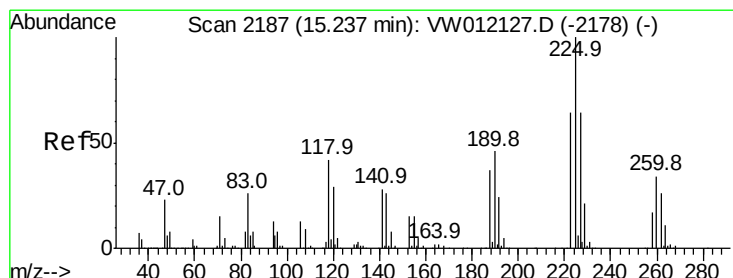
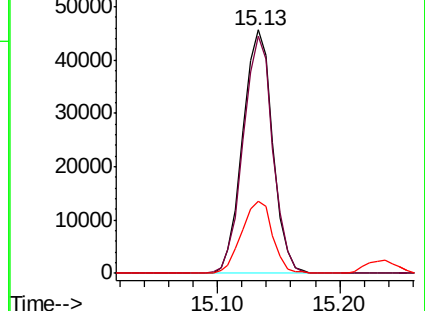
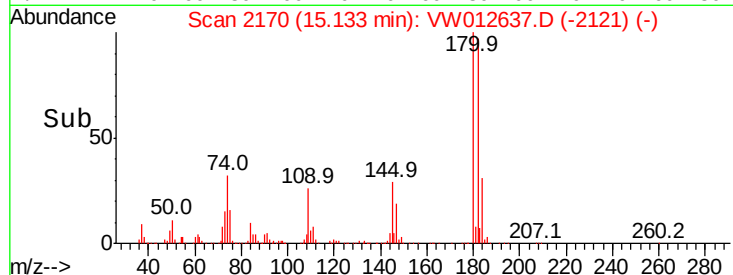


Abundance

Ion 179.80 (179.50 to 180.50): V

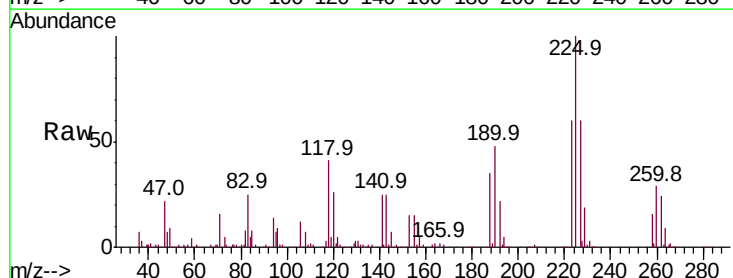
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 24.876 ug/l  
 RT: 15.23 min Scan# 2186  
 Delta R.T. -0.01 min  
 Lab File: VW012637.D  
 Acq: 05 Sep 2019 13:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.8  | 32.3  | 96.8  |
| 227     | 63.6  | 32.9  | 98.6  |

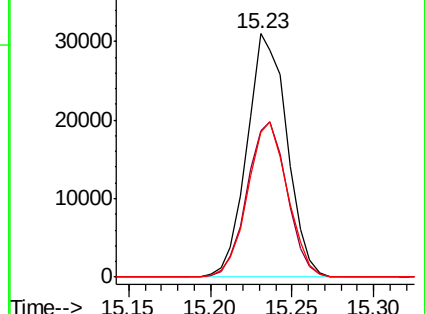
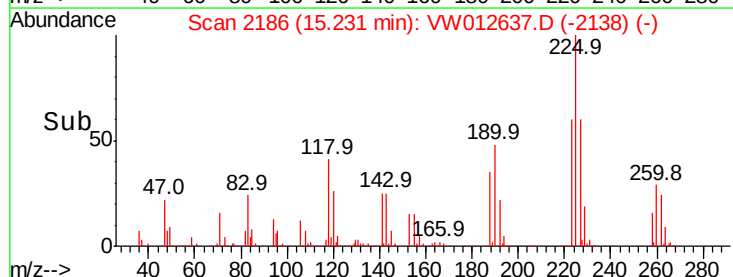


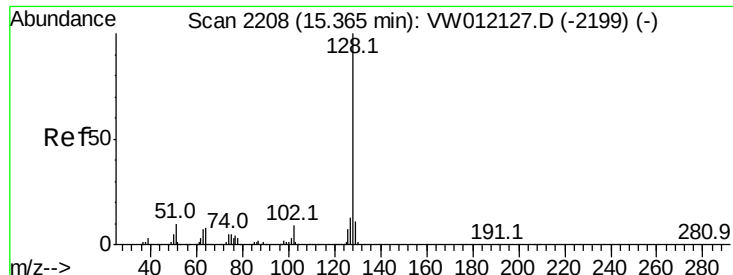
Abundance

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

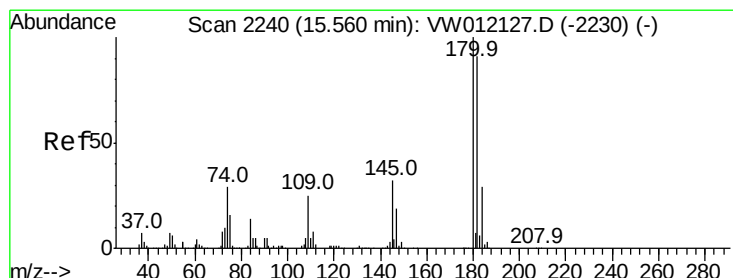
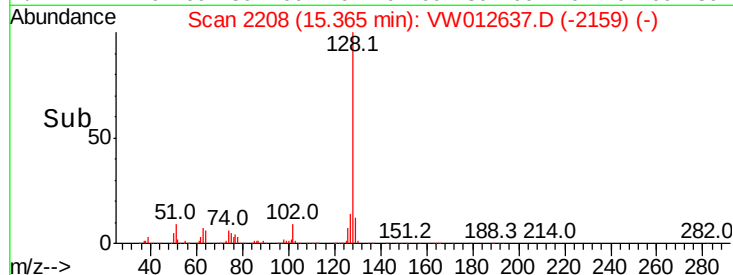
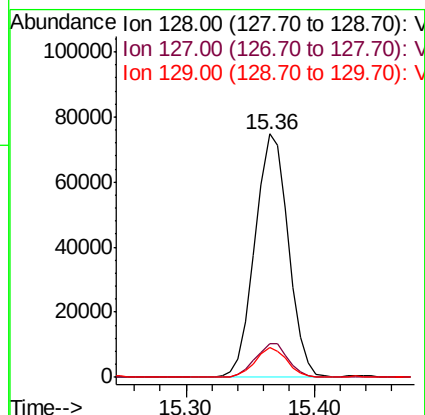
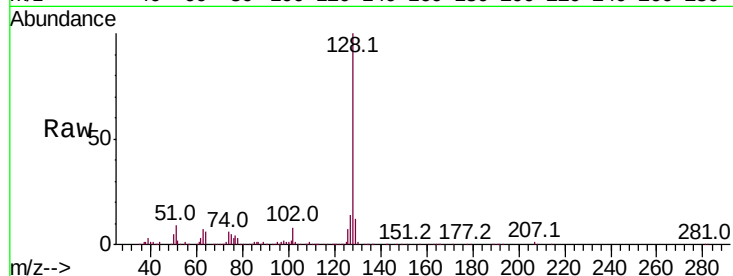




#95  
Naphthalene  
Concen: 23.636 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:128 Resp: 133578  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.7 16.1  
129 11.9 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 23.633 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW012637.D  
Acq: 05 Sep 2019 13:32

Tgt Ion:180 Resp: 66391  
Ion Ratio Lower Upper  
180 100  
182 94.6 47.1 141.3  
145 33.8 16.2 48.5

