

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051619\  
 Data File : VW010414.D  
 Acq On : 16 May 2019 20:55  
 Operator : SY/VA  
 Sample : VSTDICC150  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICC150

Quant Time: May 17 08:59:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 08:39:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 971350   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1712795  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 1590157  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 748170   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 1455413  | 140.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 280.54% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 1424500  | 140.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 281.64% |      |
| 50) Toluene-d8            | 10.32  | 98  | 5469906  | 134.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 269.30% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 2135700  | 146.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 292.74% |      |

## Target Compounds

|                               |      |     |          |         |      | Qvalue |
|-------------------------------|------|-----|----------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 820850   | 108.467 | ug/l | 98     |
| 3) Chloromethane              | 2.22 | 50  | 1222815  | 127.076 | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 1450168  | 120.165 | ug/l | 99     |
| 5) Bromomethane               | 2.76 | 94  | 1016585  | 142.981 | ug/l | 97     |
| 6) Chloroethane               | 2.91 | 64  | 941776   | 134.784 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 937424   | 152.491 | ug/l | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 714801   | 132.530 | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.04 | 101 | 1234869  | 123.740 | ug/l | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 2075112  | 143.883 | ug/l | 98     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 580827   | 771.917 | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 1338285  | 128.331 | ug/l | 98     |
| 13) Acrolein                  | 3.88 | 56  | 316250   | 362.368 | ug/l | 96     |
| 14) Allyl chloride            | 4.65 | 41  | 1655669  | 109.149 | ug/l | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 1663582  | 572.435 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 1346761  | 530.619 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.37 | 76  | 3546501  | 114.439 | ug/l | 99     |
| 18) Methyl Acetate            | 4.66 | 43  | 890728   | 136.796 | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 1832945  | 143.996 | ug/l | 99     |
| 20) Methylene Chloride        | 4.91 | 84  | 1382263  | 124.061 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 1477581  | 130.981 | ug/l | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 4267963  | 140.589 | ug/l | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 14923739 | 715.419 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 2564801  | 126.360 | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 2592153  | 645.396 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 1181971  | 117.098 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 1716465  | 145.315 | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 1202718  | 155.052 | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 1724336  | 660.563 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 2679146  | 138.701 | ug/l | 99     |
| 31) Cyclohexane               | 7.95 | 56  | 2196307  | 107.193 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 1994070  | 133.286 | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.07 | 75  | 2000530  | 111.440 | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 1124335  | 117.543 | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.06 | 117 | 2043835  | 129.090 | ug/l | 98     |

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 Sample : VSTDICC150  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICC150

Quant Time: May 17 08:59:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 08:39:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 2608131  | 118.177  | ug/l  | 98       |
| 40) Benzene                    | 8.32  | 78   | 5950035  | 119.712  | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 681816   | 126.838  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 1782483  | 124.528  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 2263484  | 138.535  | ug/l  | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 1679508  | 132.281  | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 1496187  | 120.882  | ug/l  | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 877771   | 134.615  | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.64  | 83   | 2161438  | 137.559  | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 1040986  | 136.791  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 313048   | 2767.929 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 5977781  | 652.553  | ug/l  | 99       |
| 52) Toluene                    | 10.38 | 92   | 3992945  | 129.981  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 2315101  | 145.460  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 2571593  | 137.370  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 1280841  | 137.611  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 1881061  | 152.493  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 2145815  | 130.828  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 4368944  | 738.759  | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 4261881  | 658.935  | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 1611113  | 157.147  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 1295694  | 144.200  | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 1434761  | 130.080  | ug/l  | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 4346911  | 132.300  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 1606457  | 142.824  | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 7581101  | 127.242  | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 5966730  | 267.167  | ug/l  | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 2931224  | 143.698  | ug/l  | 98       |
| 70) Styrene                    | 12.18 | 104  | 5165859  | 145.557  | ug/l  | 98       |
| 71) Bromoform                  | 12.35 | 173  | 975045   | 149.839  | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 7603072  | 140.201  | ug/l  | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 2429141  | 169.578  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 1570688  | 131.939  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 1101365m | 128.643  | ug/l  |          |
| 77) Bromobenzene               | 12.75 | 156  | 1784511  | 143.568  | ug/l  | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 8746220  | 131.815  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 5240832  | 137.232  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 6446824  | 140.595  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 593632   | 153.204  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 5563311  | 139.169  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 5407169  | 140.856  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 6468253  | 141.669  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 7584396  | 135.037  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 6914034  | 138.356  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 3401002  | 138.268  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 3370357  | 137.419  | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 6676444  | 134.221  | ug/l  | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 1384245  | 145.974  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 3120663  | 142.185  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 286322   | 132.137  | ug/l  | 99       |

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Operator : SY/VA  
Sample : VSTDICC150  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

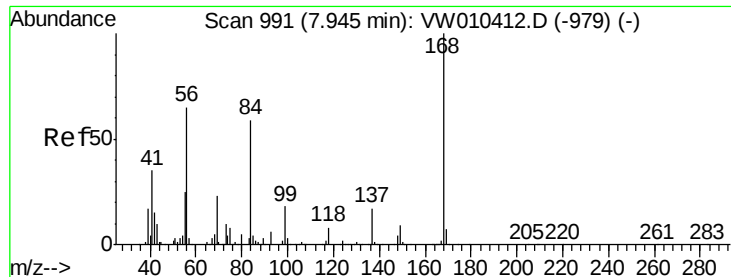
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC150

Quant Time: May 17 08:59:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051619S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 08:39:36 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 2173925  | 145.766 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 1096288  | 118.406 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 4989485  | 160.700 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 1958601  | 144.952 | 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: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

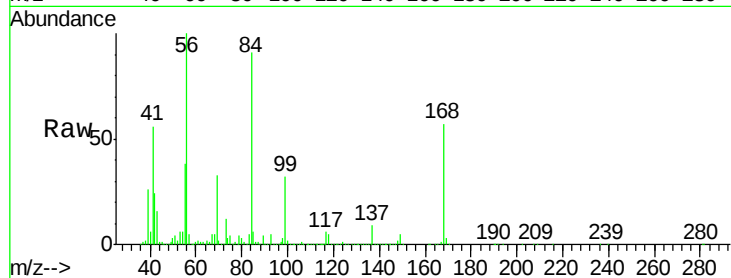
VSTDIC150

Tot Ion:168 Resp: 971350

Ion Ratio Lower Upper

168 100

99 55.5 45.6 68.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

500000

400000

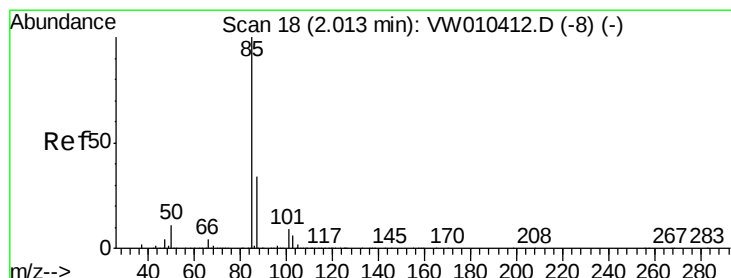
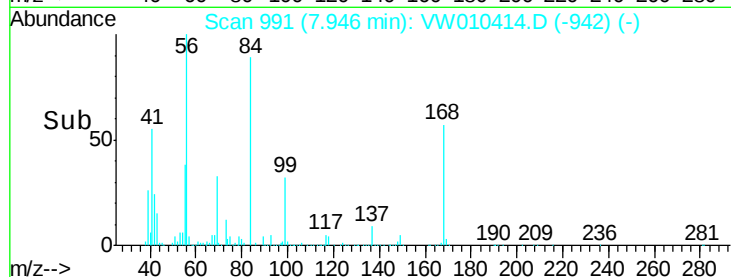
300000

200000

100000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 108.467 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW010414.D

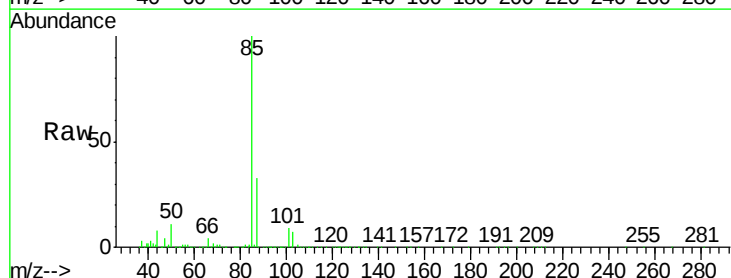
Acq: 16 May 2019 20:55

Tgt Ion: 85 Resp: 820850

Ion Ratio Lower Upper

85 100

87 32.7 16.9 50.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

200000

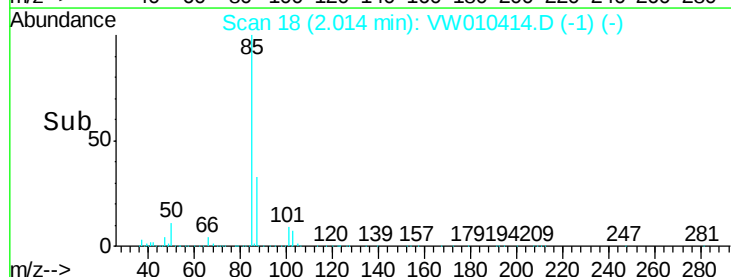
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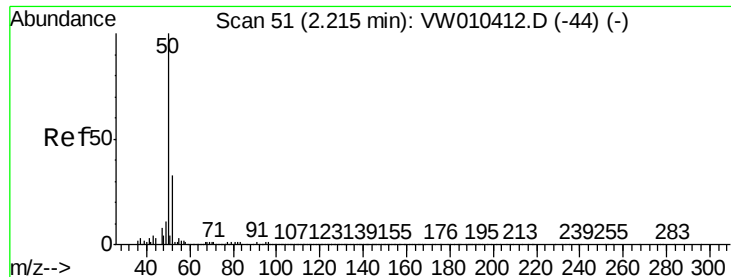
100000

50000

0

Time--> 1.80 2.00 2.20

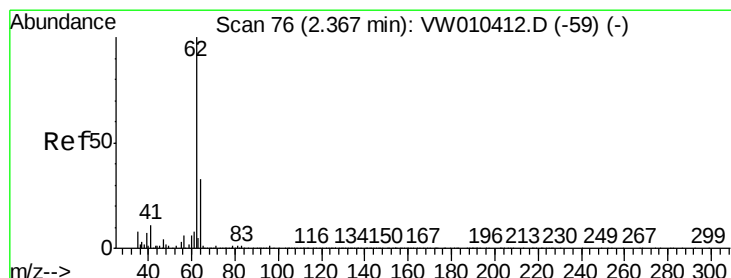
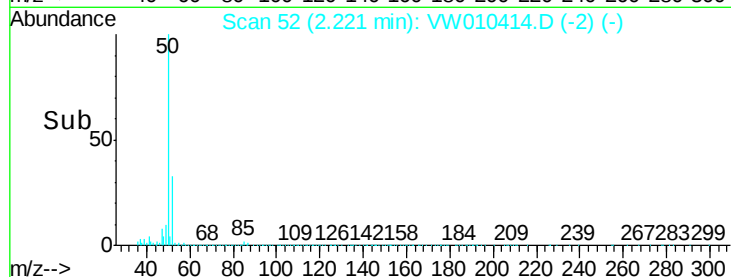
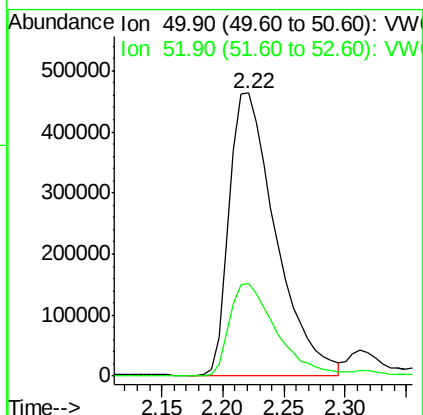
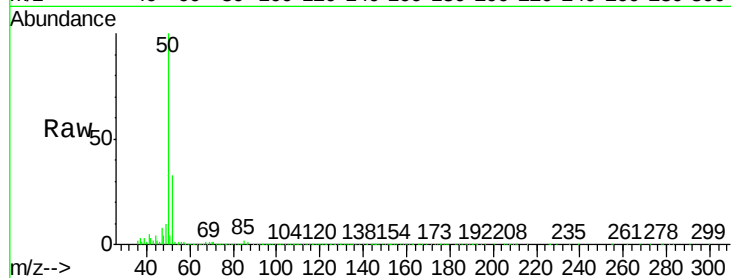




#3  
Chloromethane  
Concen: 127.076 ug/l  
RT: 2.22 min Scan# 52  
Delta R.T. 0.01 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

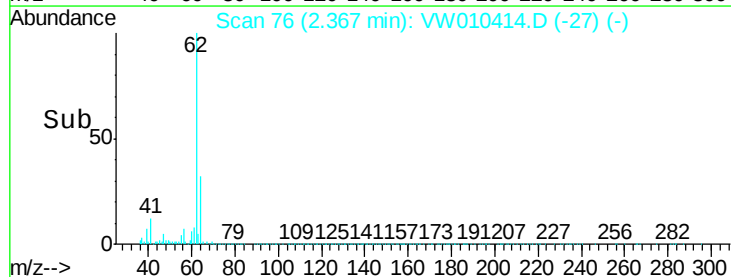
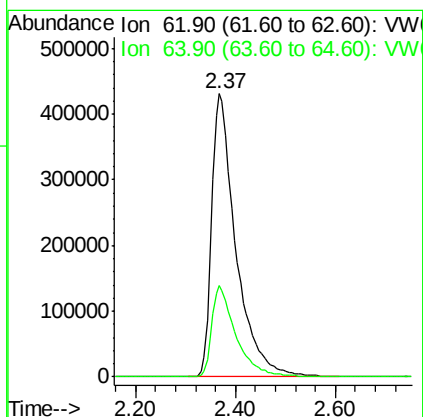
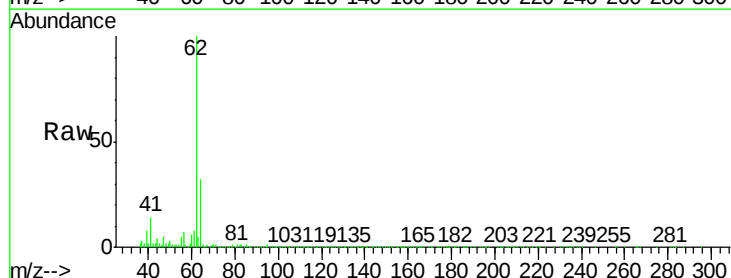
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

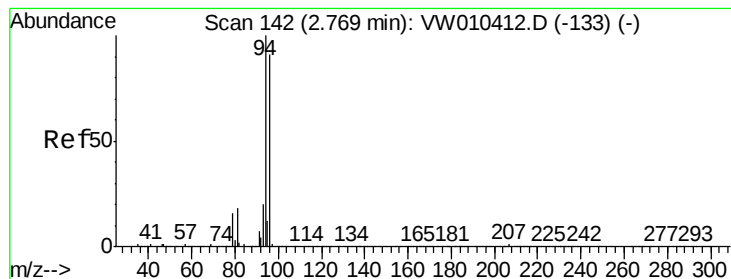
Tot Ion: 50 Resp: 1222815  
Ion Ratio Lower Upper  
50 100  
52 32.8 26.2 39.2



#4  
Vinyl Chloride  
Concen: 120.165 ug/l  
RT: 2.37 min Scan# 76  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 62 Resp: 1450168  
Ion Ratio Lower Upper  
62 100  
64 32.3 26.2 39.2





#5

Bromomethane

Concen: 142.981 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

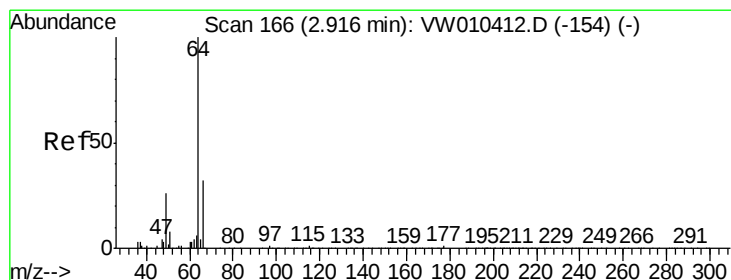
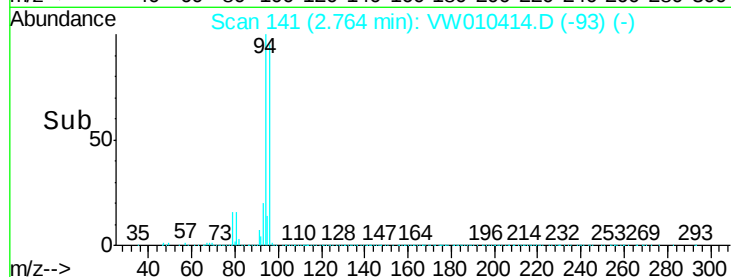
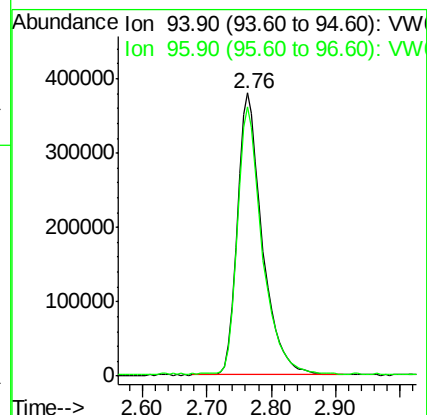
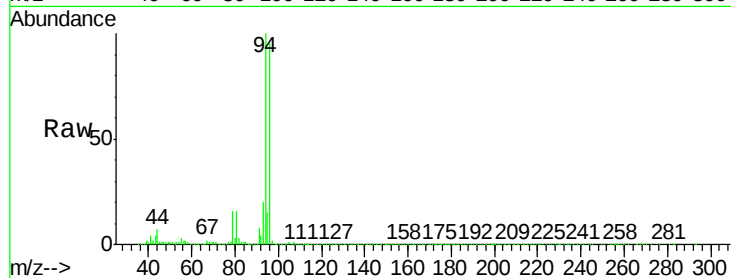
VSTDIC150

Tot Ion: 94 Resp: 1016585

Ion Ratio Lower Upper

94 100

96 94.8 73.4 110.2



#6

Chloroethane

Concen: 134.784 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW010414.D

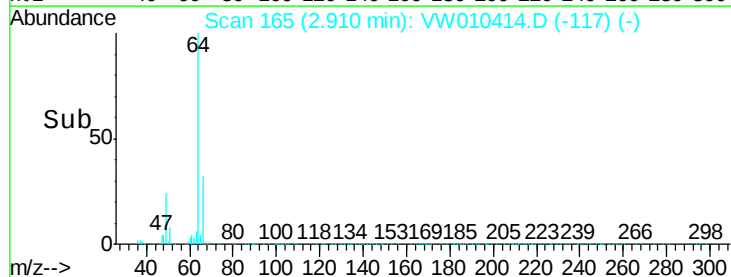
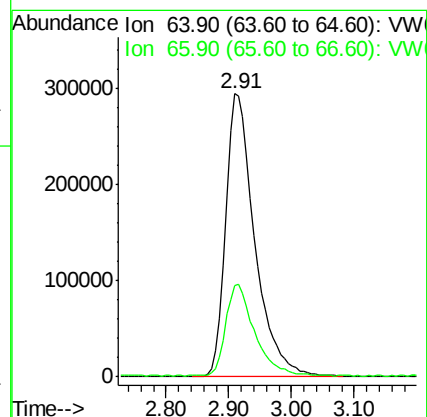
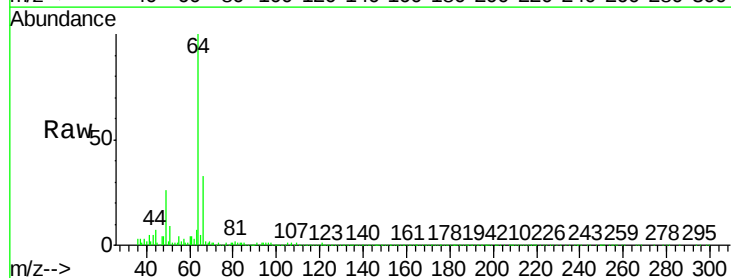
Acq: 16 May 2019 20:55

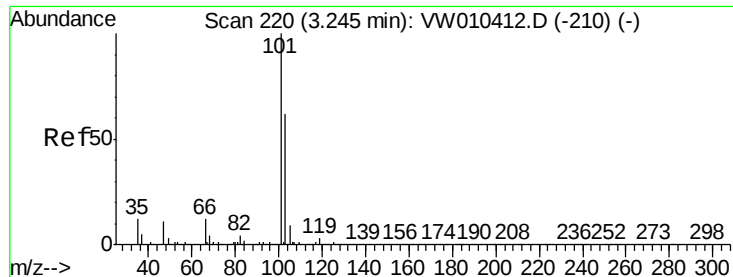
Tgt Ion: 64 Resp: 941776

Ion Ratio Lower Upper

64 100

66 32.1 25.4 38.0



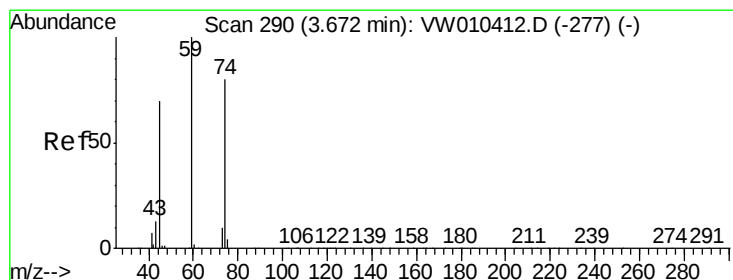
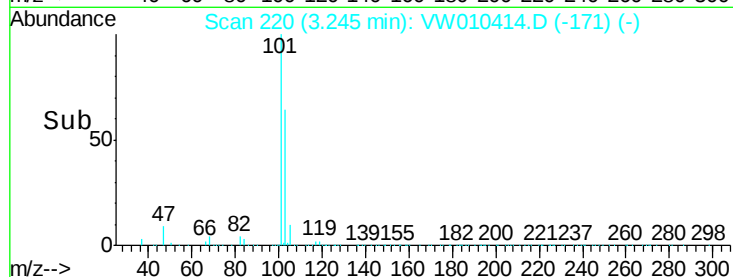
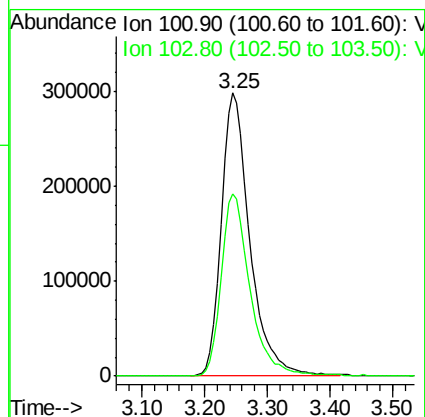
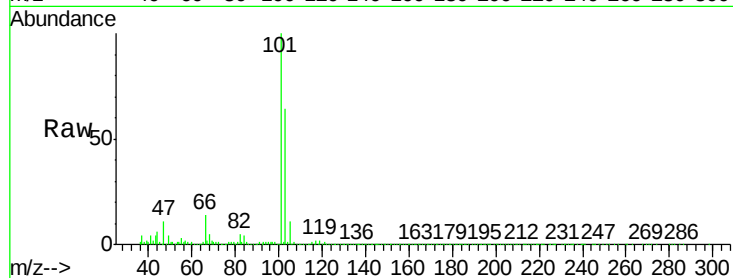


#7

Trichlorofluoromethane  
Concen: 152.491 ug/l  
RT: 3.25 min Scan# 220  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

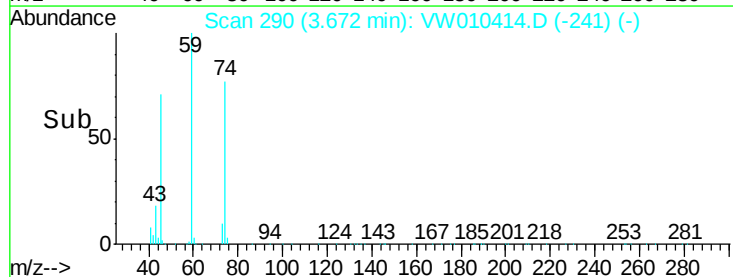
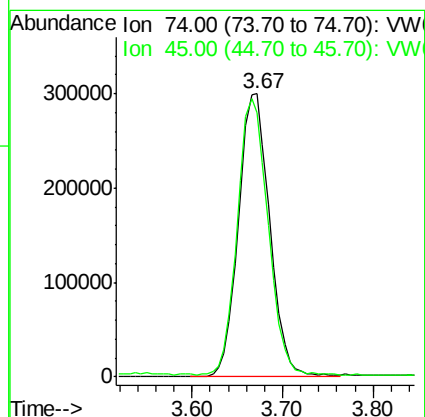
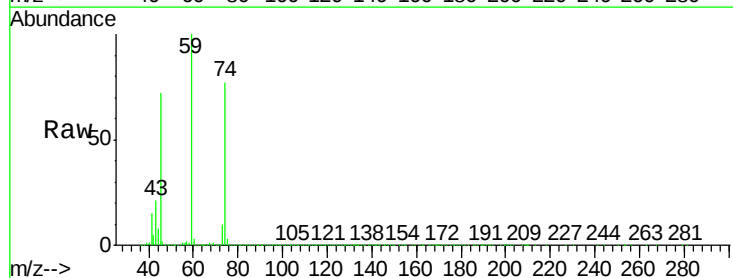
Tot Ion:101 Resp: 937424  
Ion Ratio Lower Upper  
101 100  
103 64.2 49.9 74.9

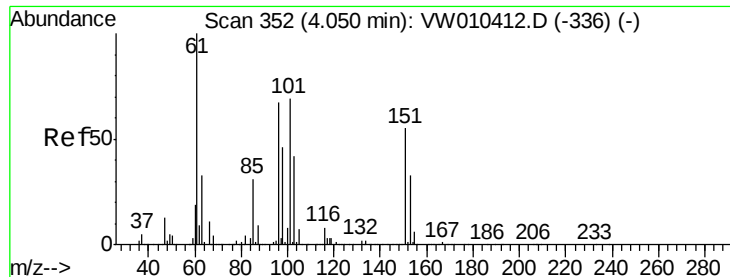


#8

Diethyl Ether  
Concen: 132.530 ug/l  
RT: 3.67 min Scan# 290  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 74 Resp: 714801  
Ion Ratio Lower Upper  
74 100  
45 95.9 46.0 138.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 123.740 ug/l

RT: 4.04 min Scan# 351

Delta R.T. -0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

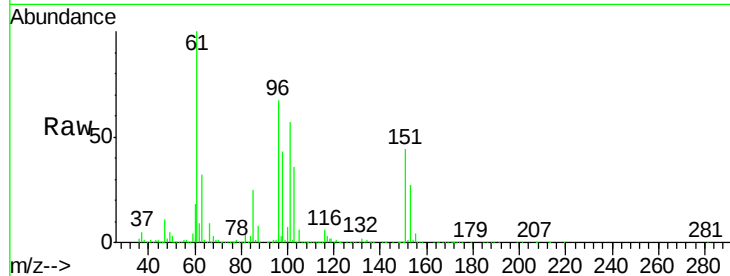
Tot Ion:101 Resp: 1234869

Ion Ratio Lower Upper

101 100

85 43.1 35.0 52.4

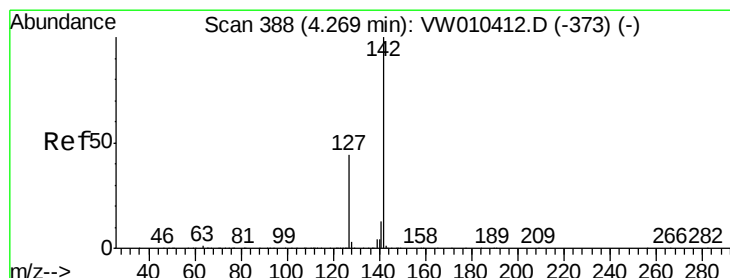
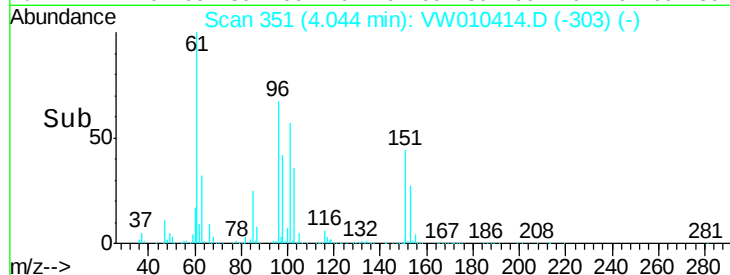
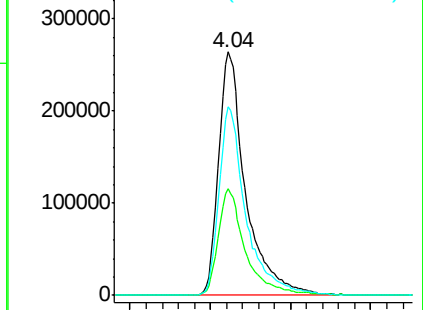
151 77.4 61.8 92.6



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: 143.883 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

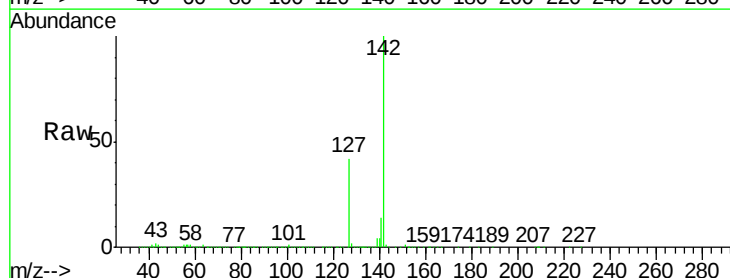
Tgt Ion:142 Resp: 2075112

Ion Ratio Lower Upper

142 100

127 42.0 34.5 51.7

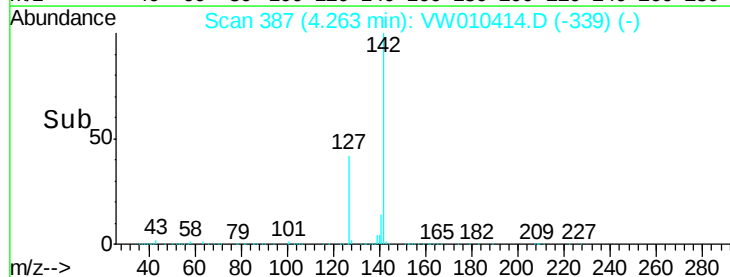
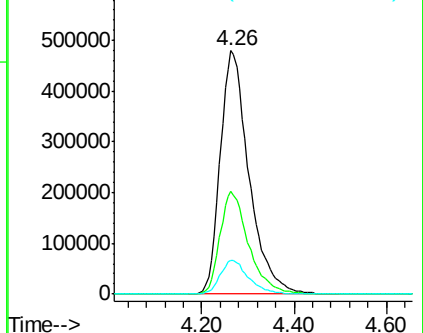
141 13.9 11.4 17.0

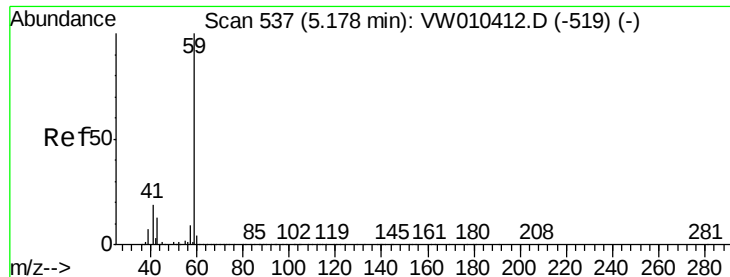


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



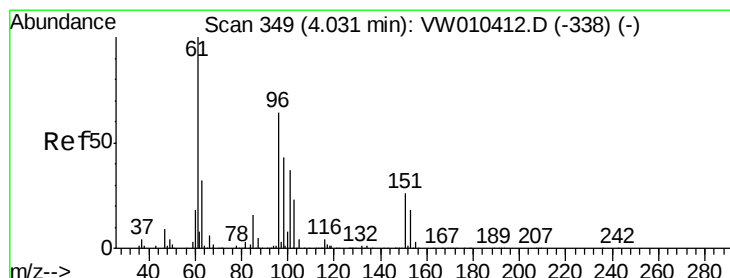
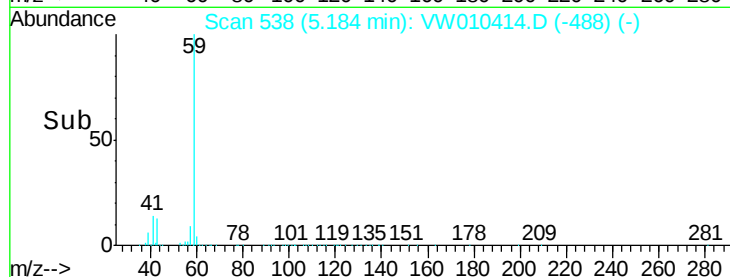
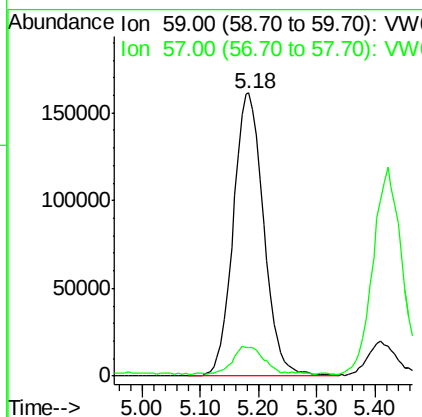
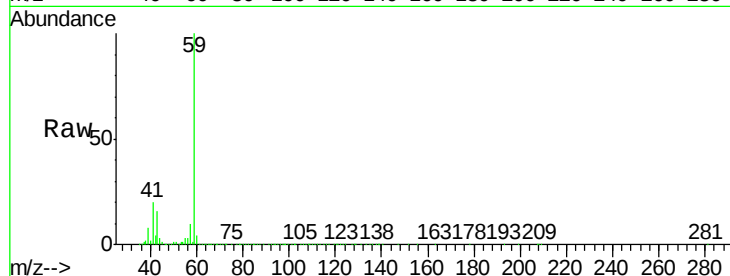


#11

Tert butyl alcohol  
Concen: 771.917 ug/l  
RT: 5.18 min Scan# 538  
Delta R.T. 0.01 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

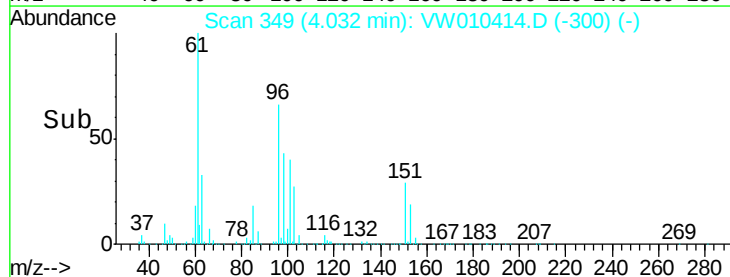
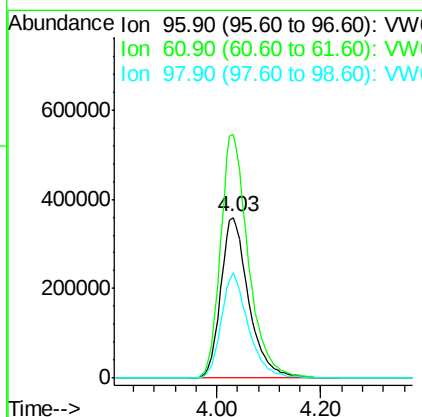
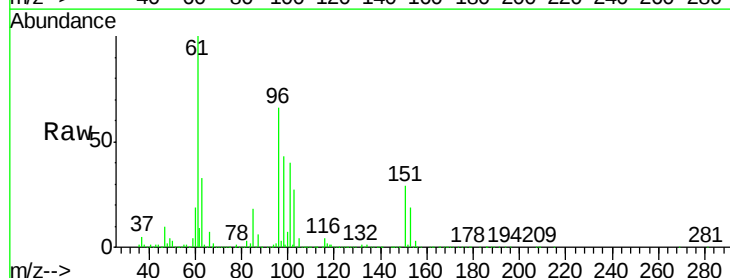
Tot Ion: 59 Resp: 580827  
Ion Ratio Lower Upper  
59 100  
57 9.7 8.7 13.1

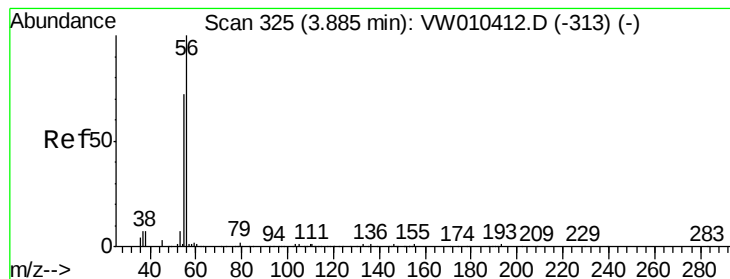


#12

1,1-Dichloroethene  
Concen: 128.331 ug/l  
RT: 4.03 min Scan# 349  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 96 Resp: 1338285  
Ion Ratio Lower Upper  
96 100  
61 151.9 124.1 186.1  
98 65.2 53.4 80.0





#13

Acrolein

Concen: 362.368 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

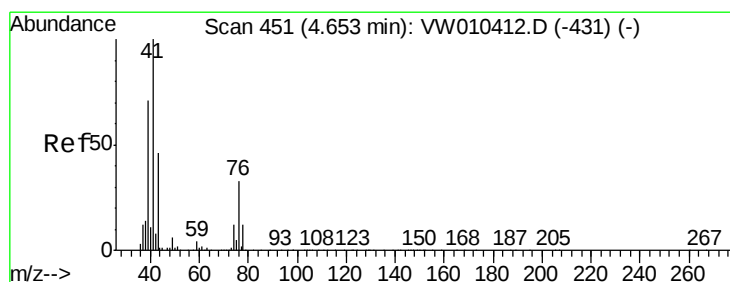
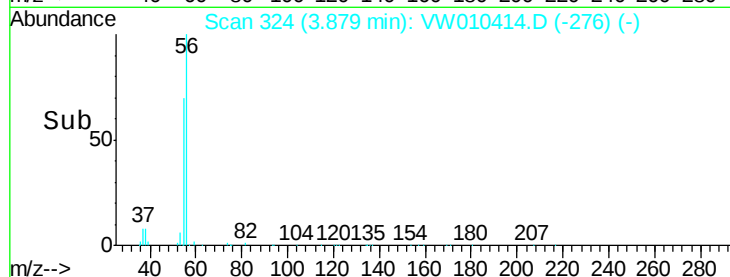
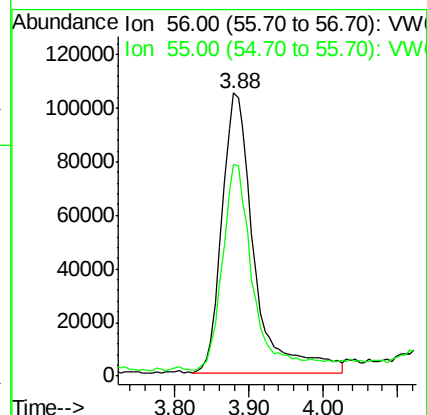
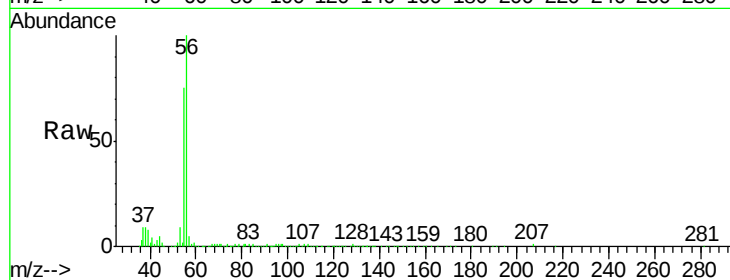
VSTDIC150

Tot Ion: 56 Resp: 316250

Ion Ratio Lower Upper

56 100

55 66.9 56.1 84.1



#14

Allyl chloride

Concen: 109.149 ug/l

RT: 4.65 min Scan# 451

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

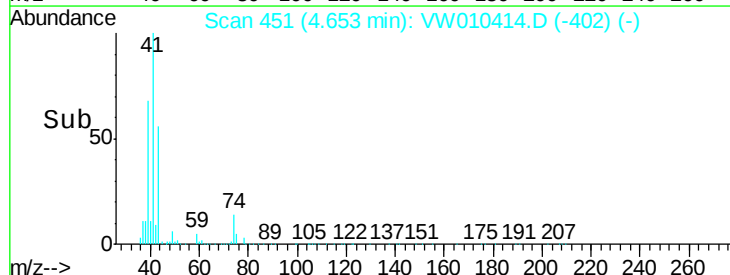
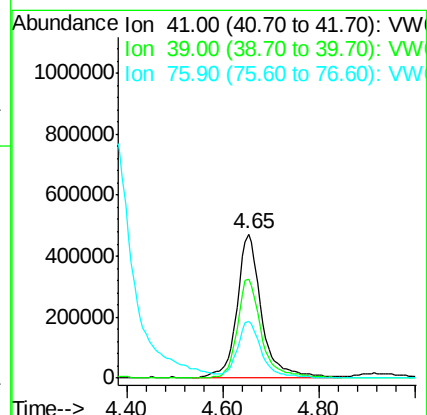
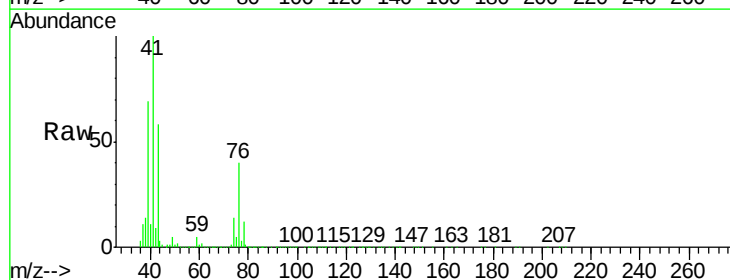
Tgt Ion: 41 Resp: 1655669

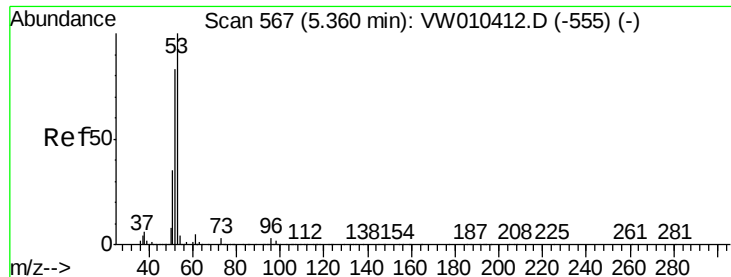
Ion Ratio Lower Upper

41 100

39 67.1 54.3 81.5

76 39.9 30.7 46.1





#15

Acrylonitrile

Concen: 572.435 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

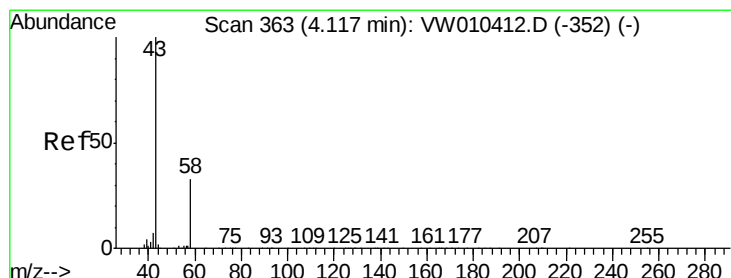
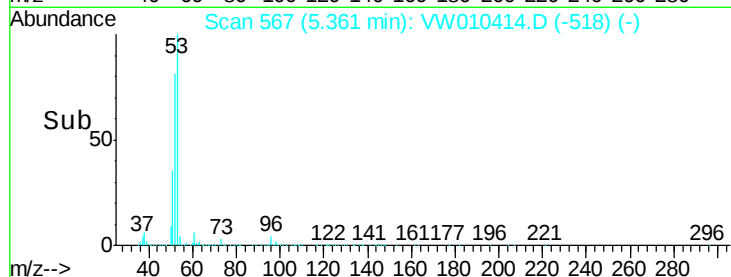
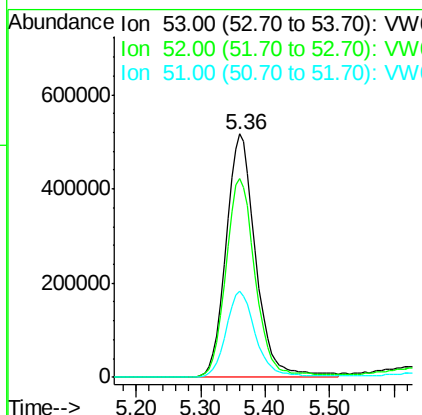
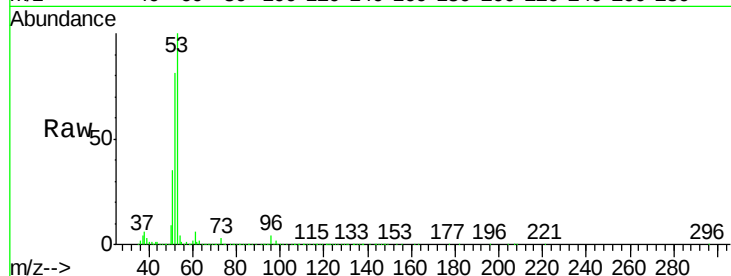
MSVOA\_W

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 1663582

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 81.7  | 66.2  | 99.2  |
| 51  | 35.5  | 28.9  | 43.3  |



#16

Acetone

Concen: 530.619 ug/l

RT: 4.12 min Scan# 363

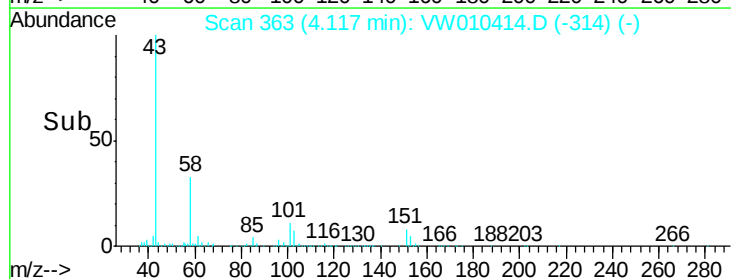
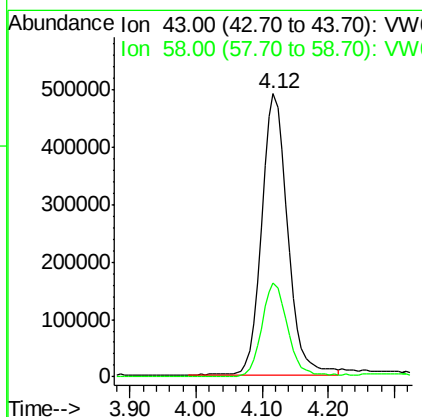
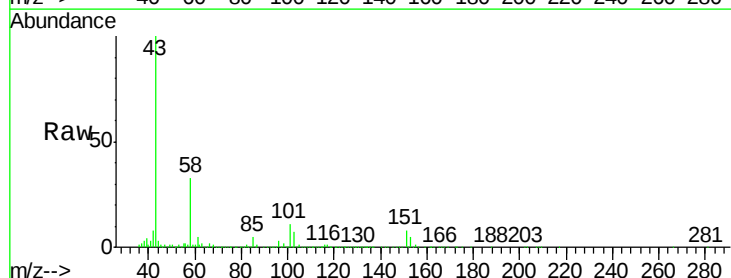
Delta R.T. 0.00 min

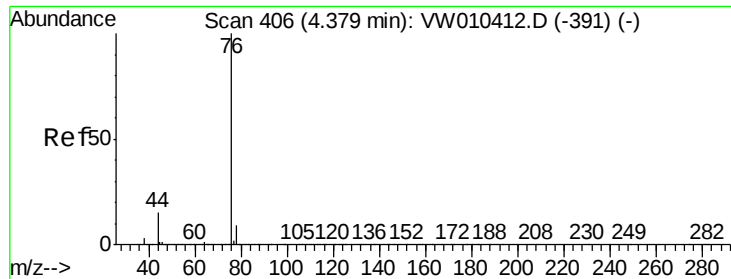
Lab File: VW010414.D

Acq: 16 May 2019 20:55

Tgt Ion: 43 Resp: 1346761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 33.0  | 26.5  | 39.7  |

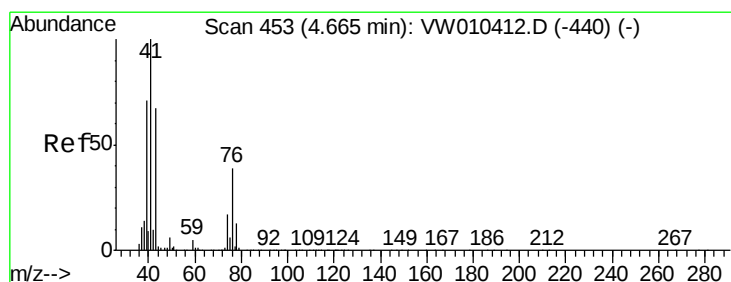
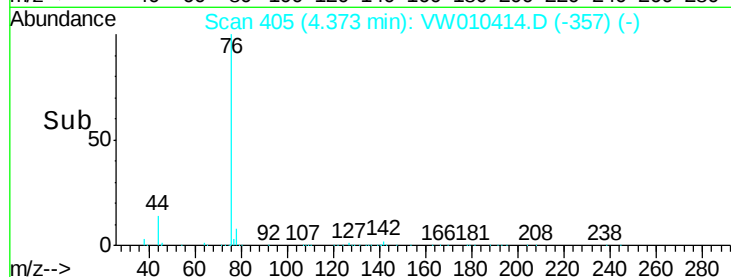
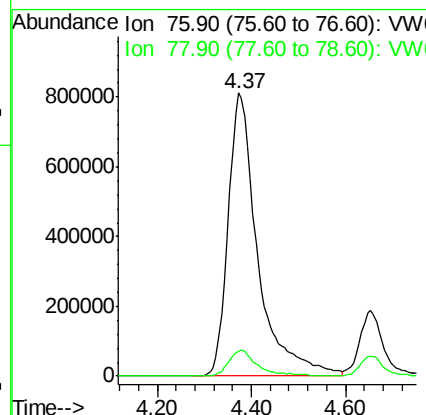
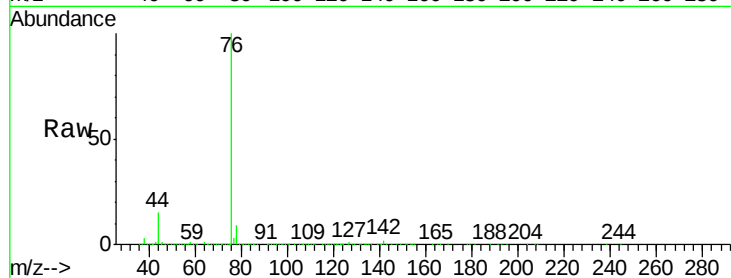




#17  
Carbon Disulfide  
Concen: 114.439 ug/l  
RT: 4.37 min Scan# 405  
Delta R.T. -0.01 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

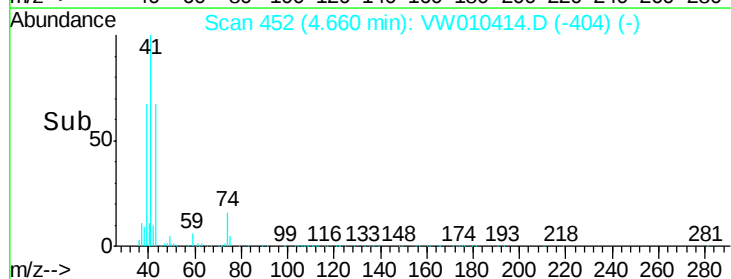
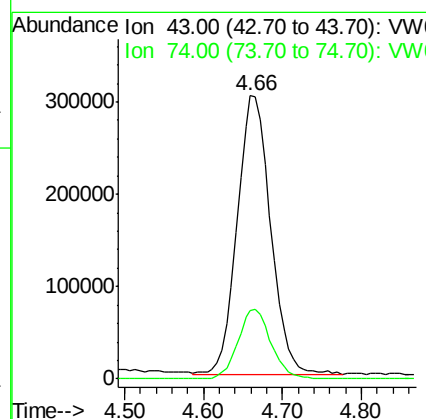
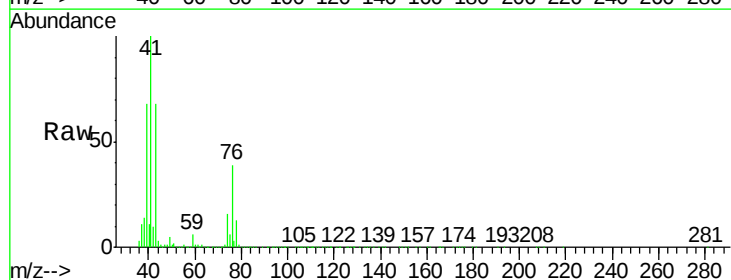
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

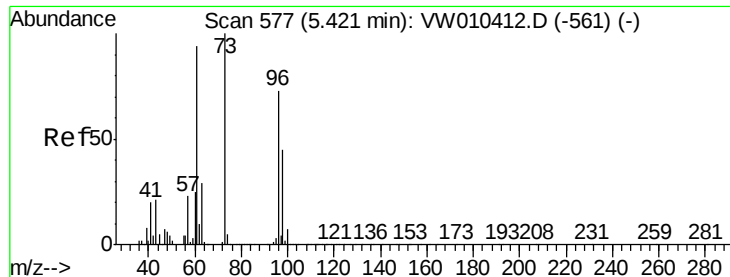
Tot Ion: 76 Resp: 3546501  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.4 11.0



#18  
Methyl Acetate  
Concen: 136.796 ug/l  
RT: 4.66 min Scan# 452  
Delta R.T. -0.01 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 43 Resp: 890728  
Ion Ratio Lower Upper  
43 100  
74 24.5 20.7 31.1



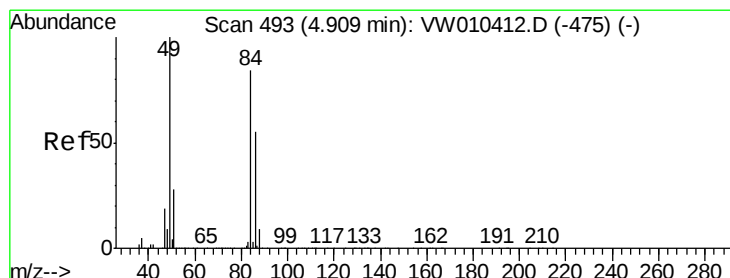
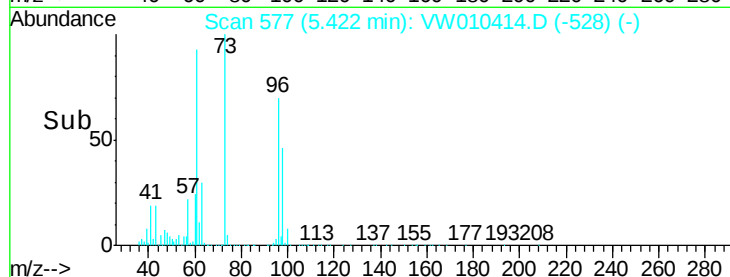
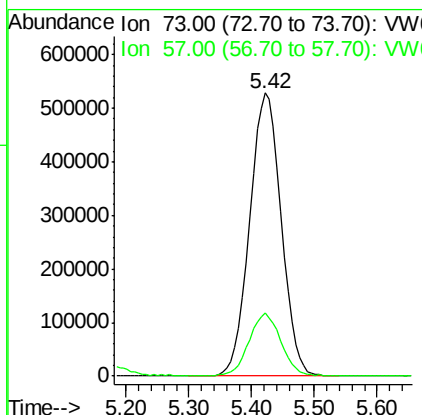
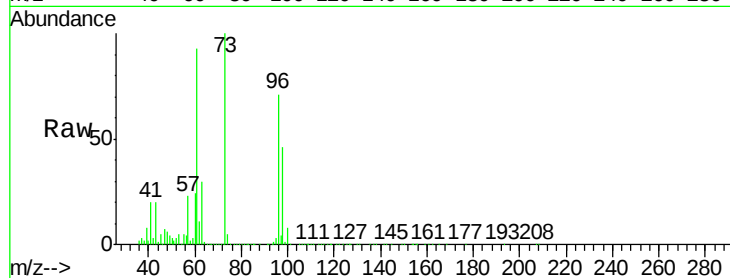


#19

Methyl tert-butyl Ether  
 Concen: 143.996 ug/l  
 RT: 5.42 min Scan# 577  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC150

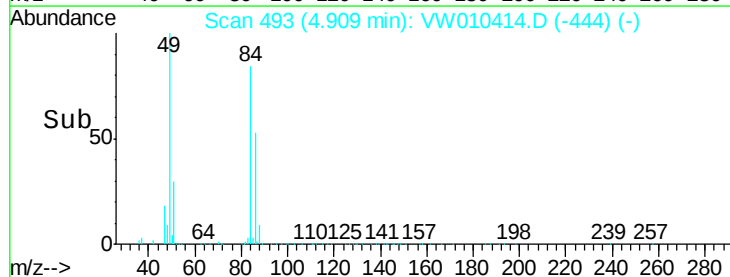
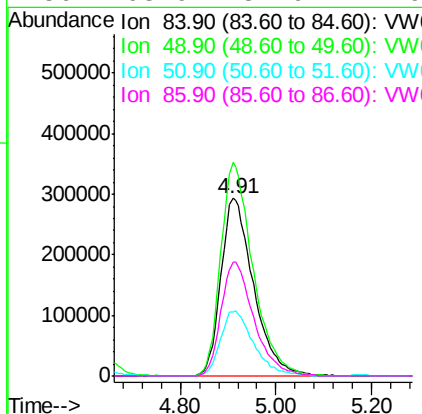
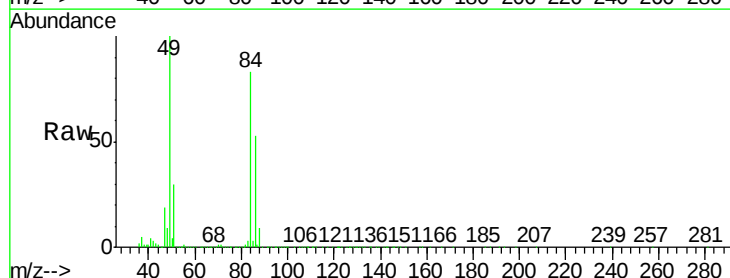
Tot Ion: 73 Resp: 1832945  
 Ion Ratio Lower Upper  
 73 100  
 57 22.3 18.2 27.4

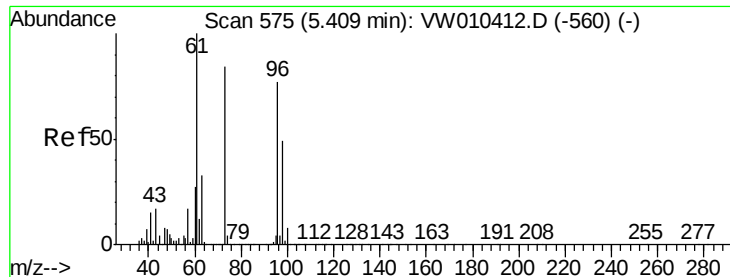


#20

Methylene Chloride  
 Concen: 124.061 ug/l  
 RT: 4.91 min Scan# 493  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Tgt Ion: 84 Resp: 1382263  
 Ion Ratio Lower Upper  
 84 100  
 49 120.2 95.0 142.4  
 51 36.2 27.0 40.4  
 86 63.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 130.981 ug/l

RT: 5.41 min Scan# 575

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

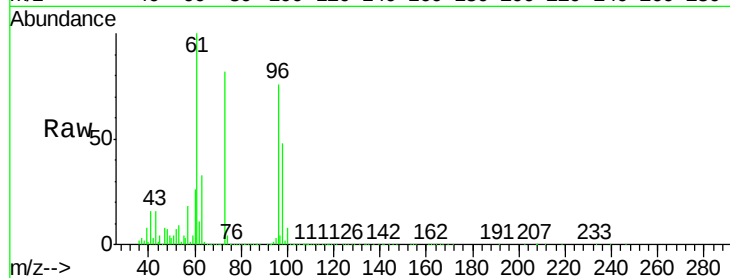
Tot Ion: 96 Resp: 1477581

Ion Ratio Lower Upper

96 100

61 132.0 103.6 155.4

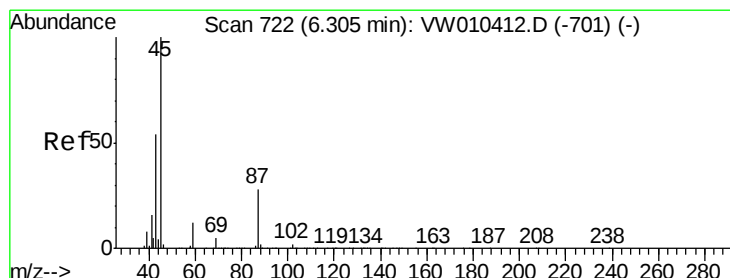
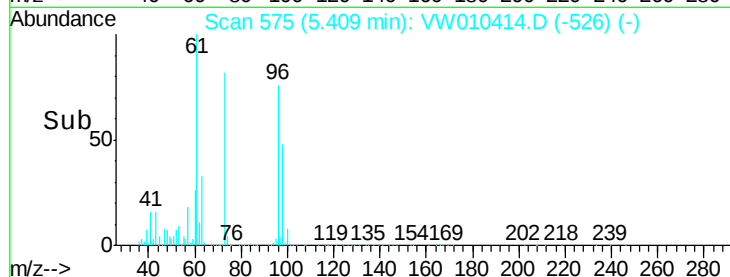
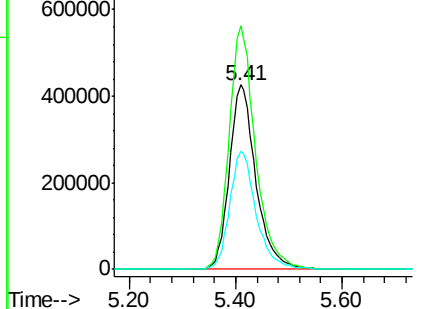
98 63.9 50.4 75.6



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: 140.589 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Tgt Ion: 45 Resp: 4267963

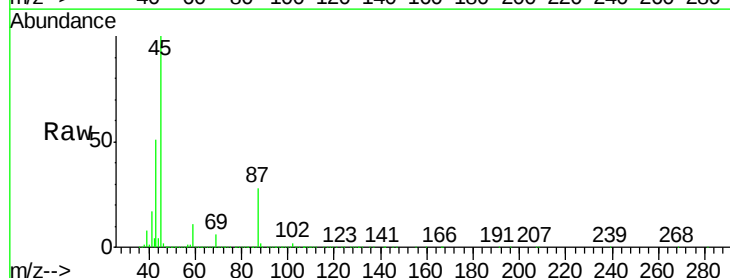
Ion Ratio Lower Upper

45 100

43 50.3 43.1 64.7

87 28.3 22.7 34.1

59 11.4 9.4 14.2

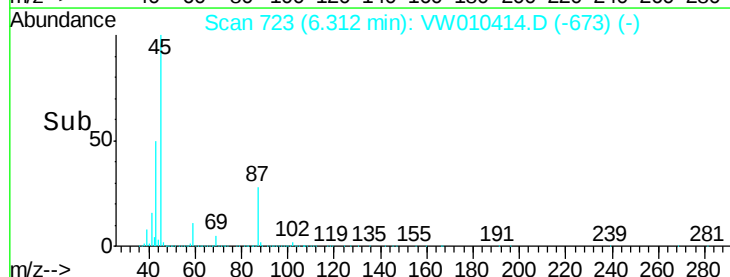
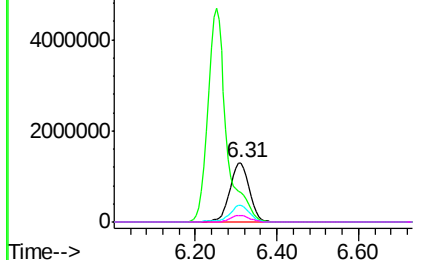


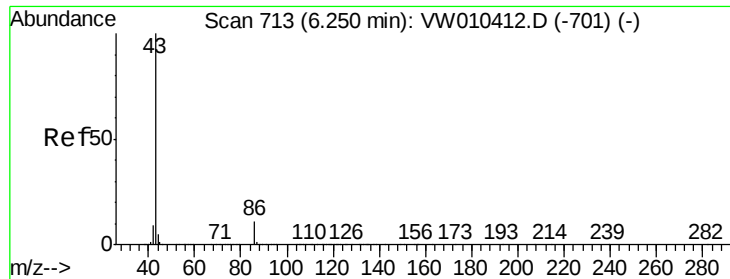
Abundance Ion 45.00 (44.70 to 45.70): VW

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: 715.419 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

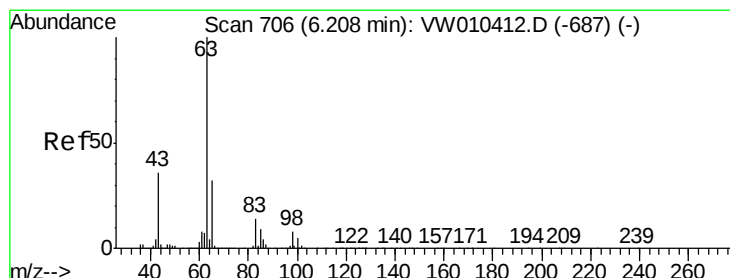
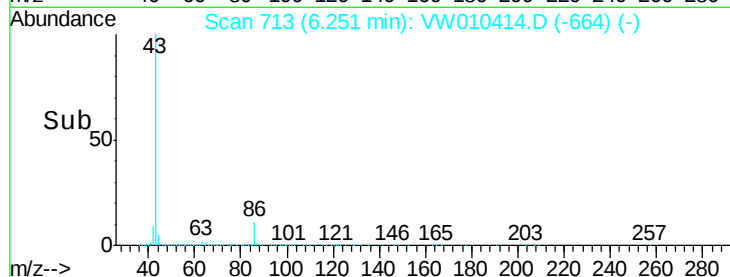
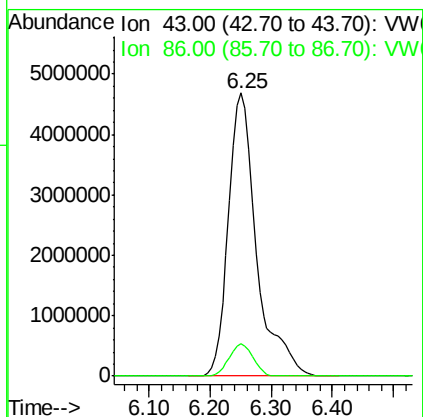
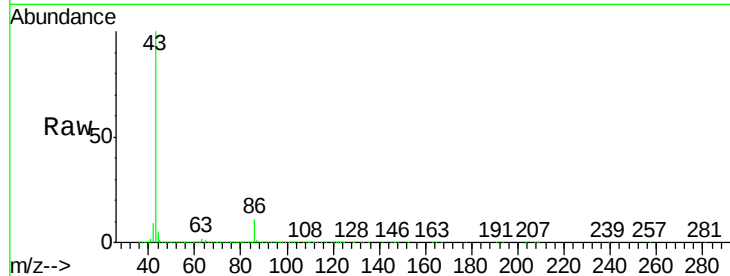
VSTDIC150

Tot Ion: 43 Resp: 14923739

Ion Ratio Lower Upper

43 100

86 11.3 9.1 13.7



#24

1,1-Dichloroethane

Concen: 126.360 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

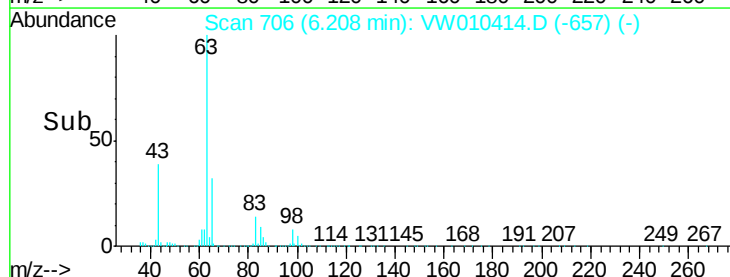
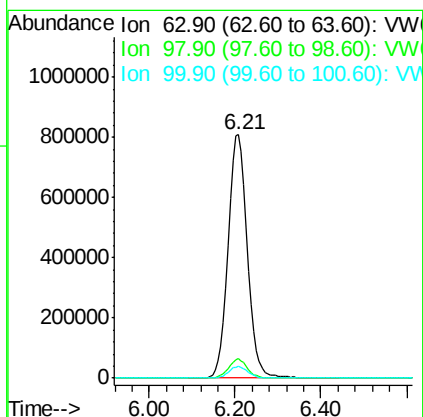
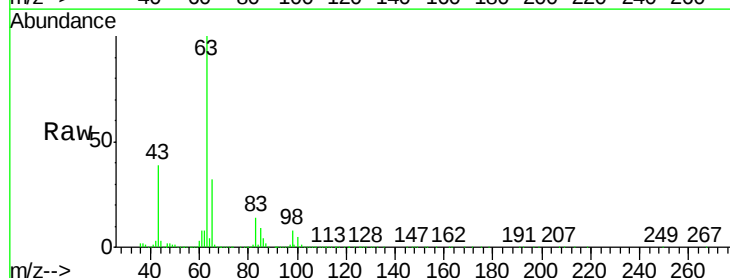
Tgt Ion: 63 Resp: 2564801

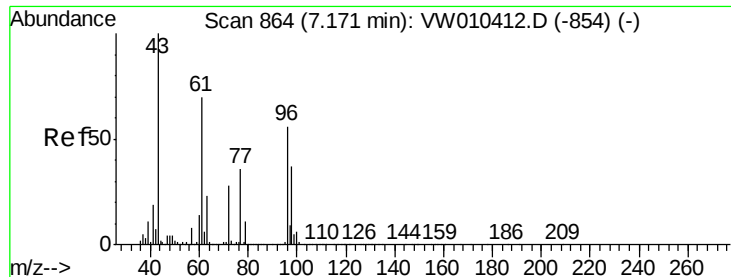
Ion Ratio Lower Upper

63 100

98 7.8 4.1 12.3

100 4.8 2.4 7.2





#25

2-Butanone

Concen: 645.396 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

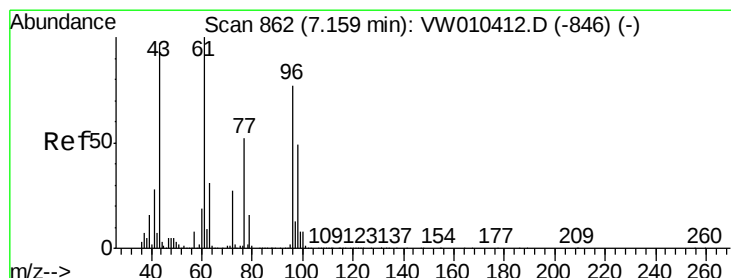
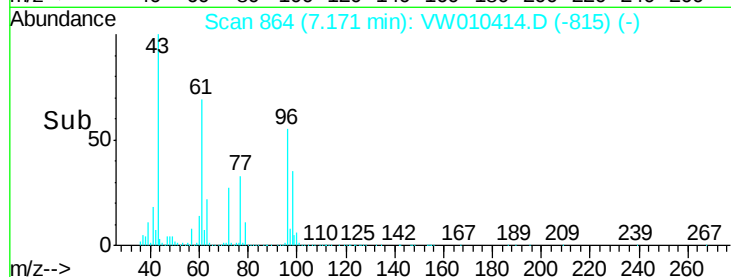
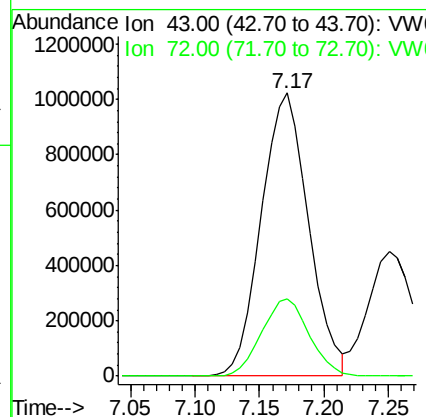
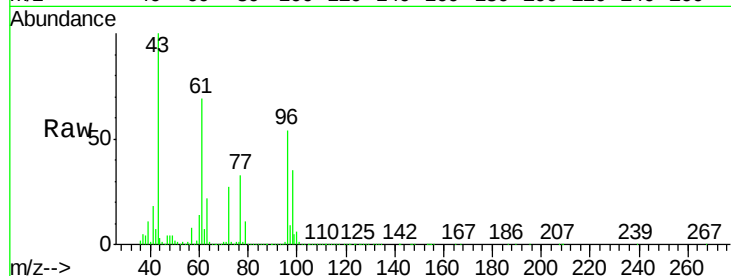
VSTDIC150

Tot Ion: 43 Resp: 2592153

Ion Ratio Lower Upper

43 100

72 27.4 22.1 33.1



#26

2,2-Dichloropropane

Concen: 117.098 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW010414.D

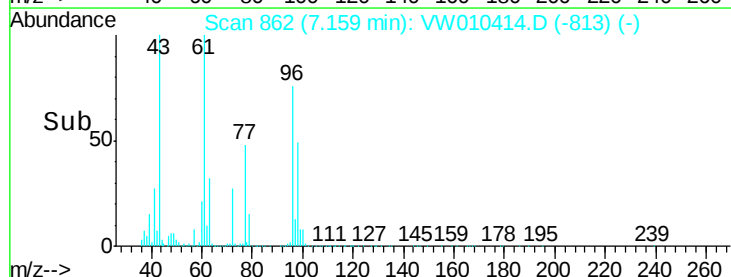
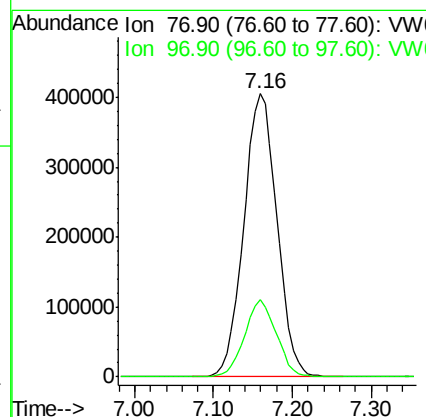
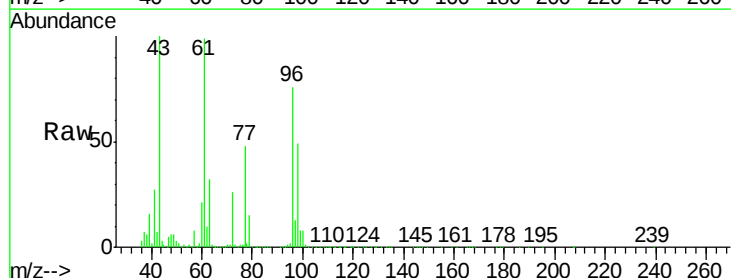
Acq: 16 May 2019 20:55

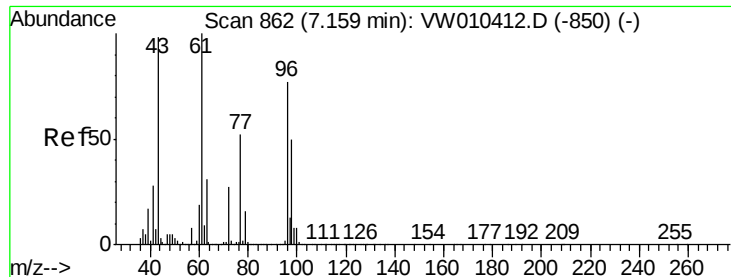
Tgt Ion: 77 Resp: 1181971

Ion Ratio Lower Upper

77 100

97 25.7 12.7 38.0



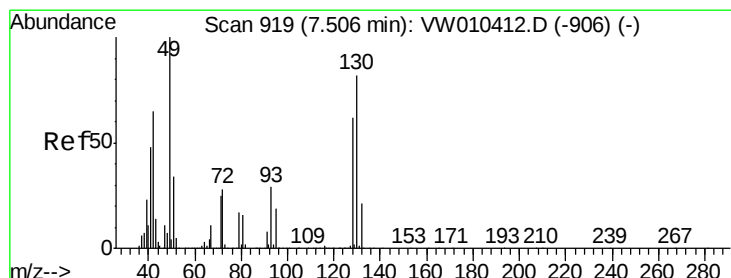
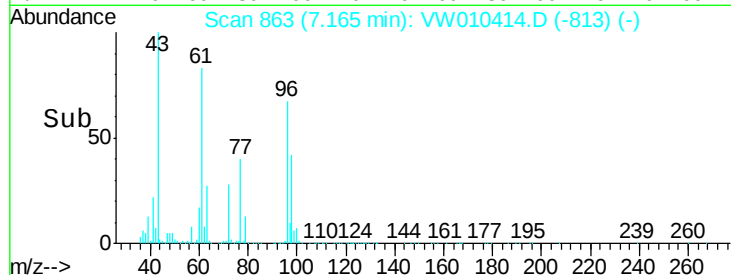
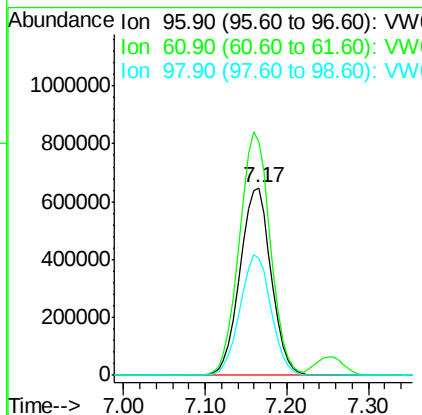
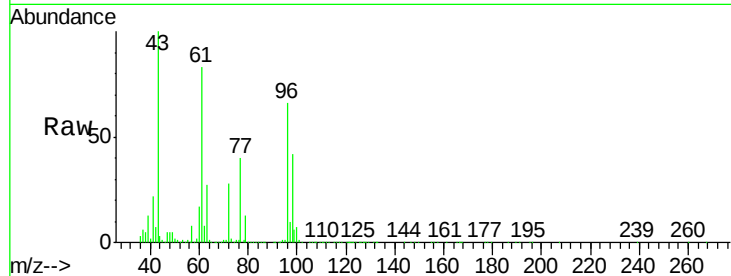


#27

cis-1,2-Dichloroethene  
Concen: 145.315 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.01 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

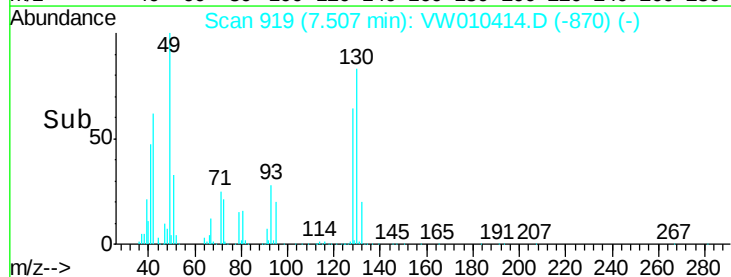
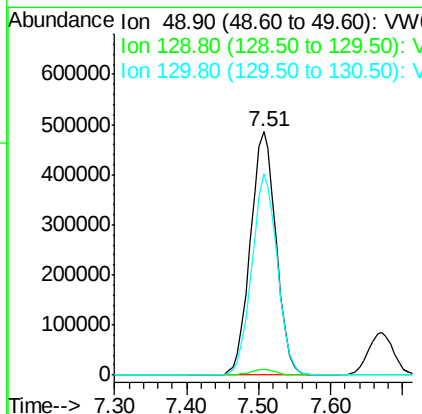
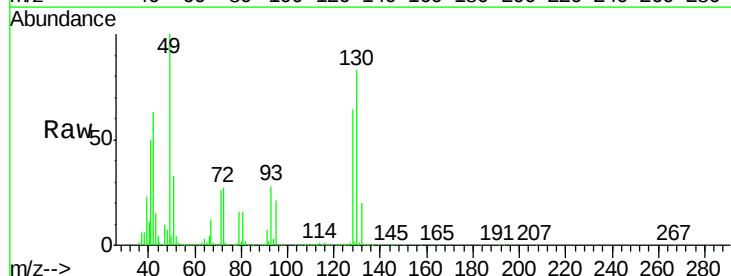
Tot Ion: 96 Resp: 1716465  
Ion Ratio Lower Upper  
96 100  
61 129.5 0.0 257.8  
98 64.4 0.0 128.4

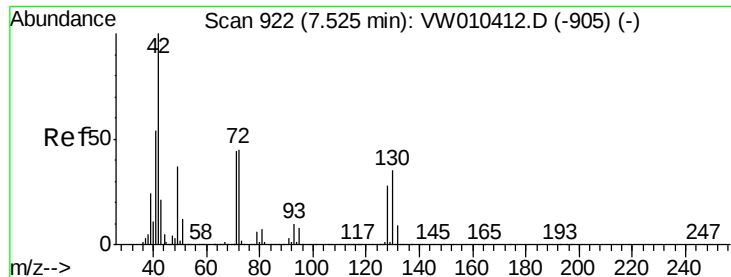


#28

Bromochloromethane  
Concen: 155.052 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 49 Resp: 1202718  
Ion Ratio Lower Upper  
49 100  
129 2.2 0.0 4.8  
130 81.7 67.0 100.4

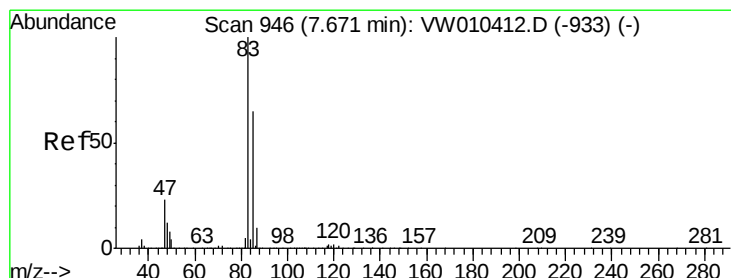
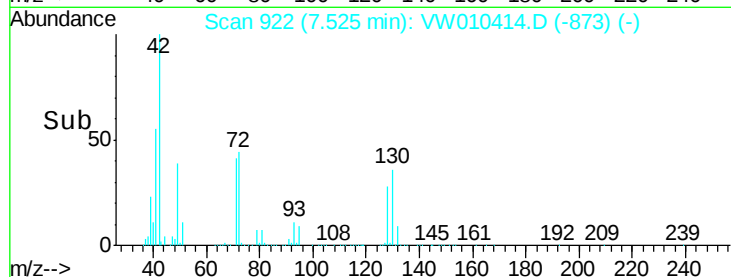
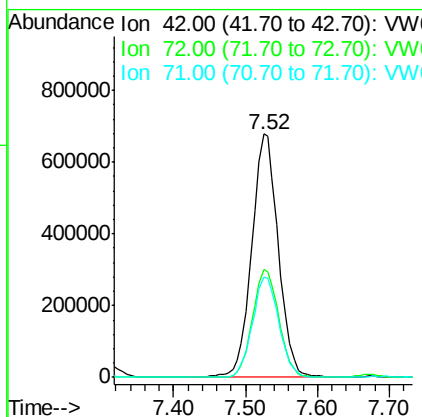
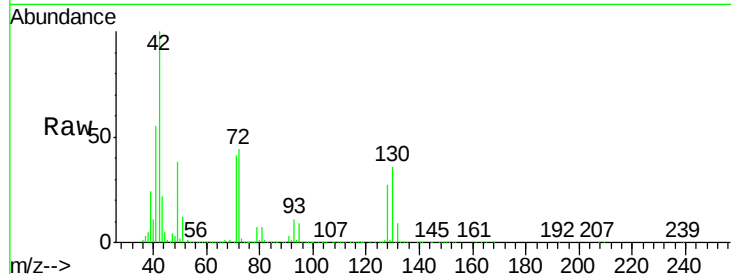




#29  
Tetrahydrofuran  
Concen: 660.563 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

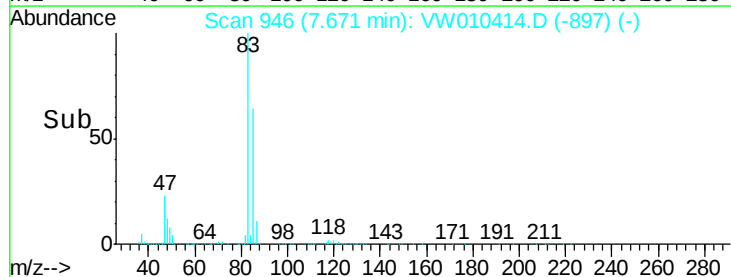
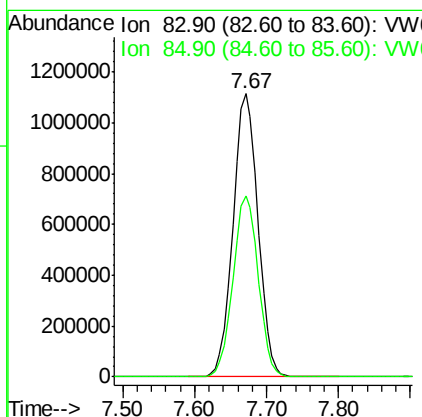
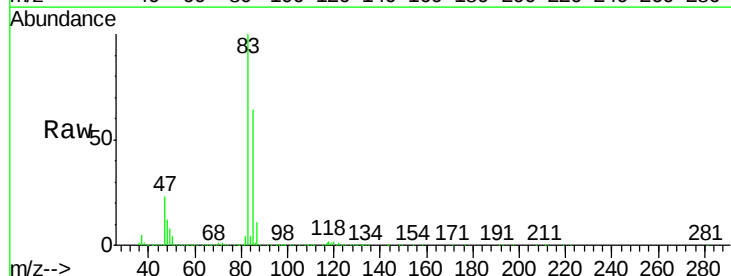
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

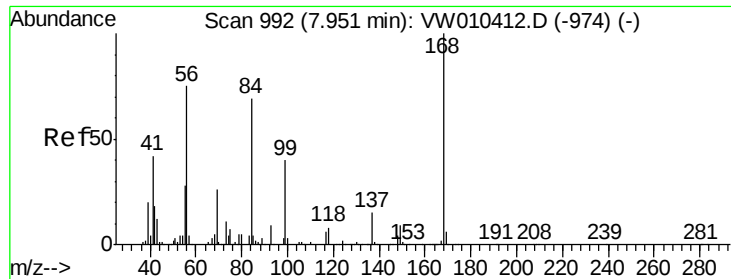
Tot Ion: 42 Resp: 1724336  
Ion Ratio Lower Upper  
42 100  
72 44.2 35.6 53.4  
71 41.1 33.7 50.5



#30  
Chloroform  
Concen: 138.701 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 83 Resp: 2679146  
Ion Ratio Lower Upper  
83 100  
85 64.0 52.0 78.0

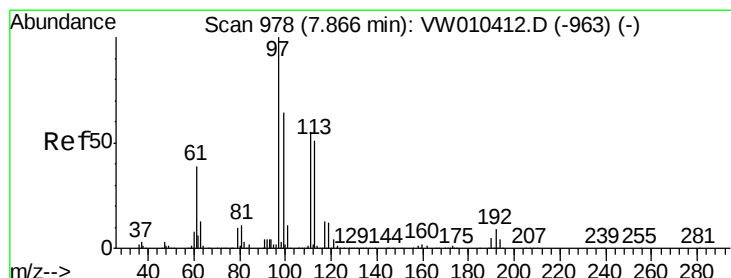
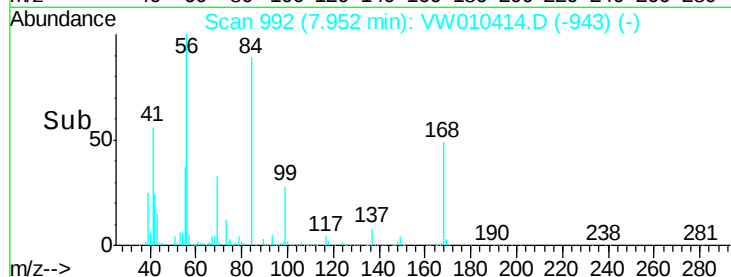
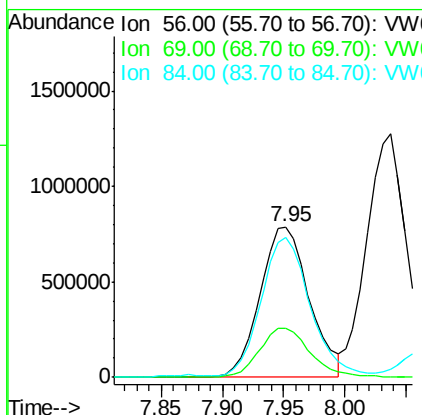
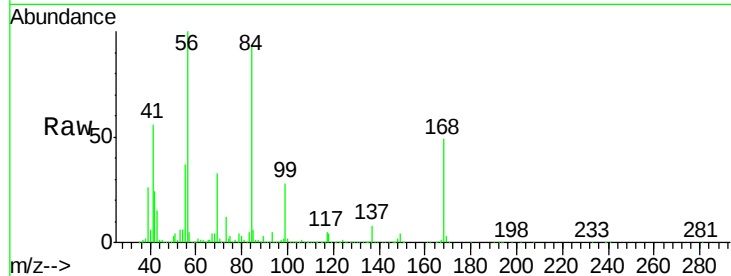




#31  
Cvclohexane  
Concen: 107.193 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

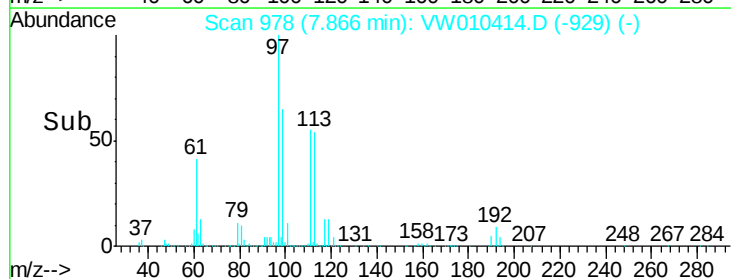
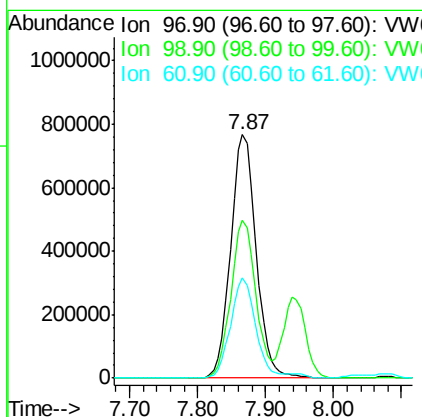
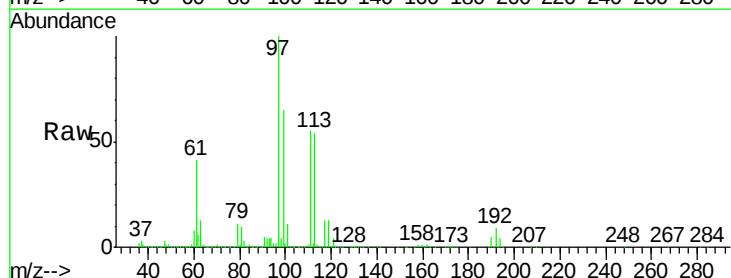
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

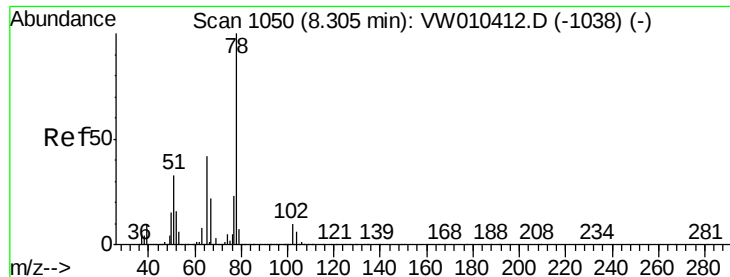
Tot Ion: 56 Resp: 2196307  
Ion Ratio Lower Upper  
56 100  
69 32.6 27.9 41.9  
84 91.3 73.9 110.9



#32  
1,1,1-Trichloroethane  
Concen: 133.286 ug/l  
RT: 7.87 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 97 Resp: 1994070  
Ion Ratio Lower Upper  
97 100  
99 63.2 50.6 76.0  
61 39.9 31.9 47.9





#33

1,2-Dichloroethane-d4

Concen: 140.265 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

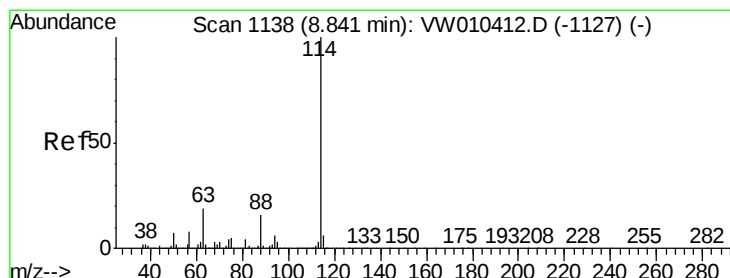
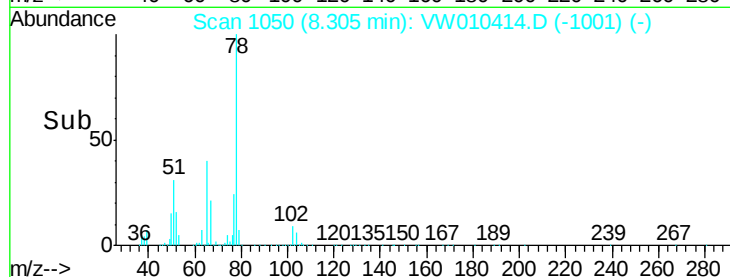
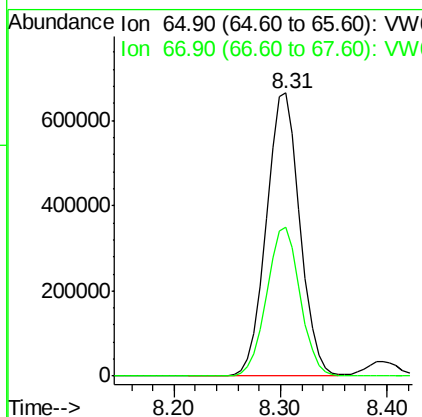
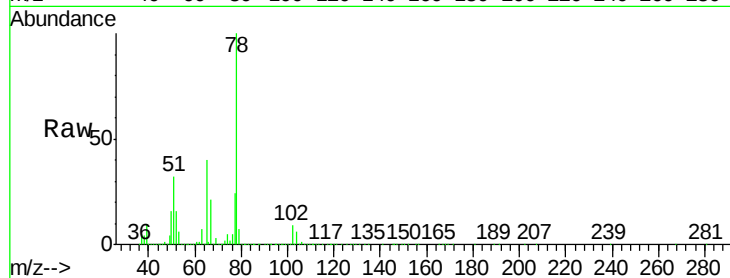
VSTDIC150

Tot Ion: 65 Resp: 1455413

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

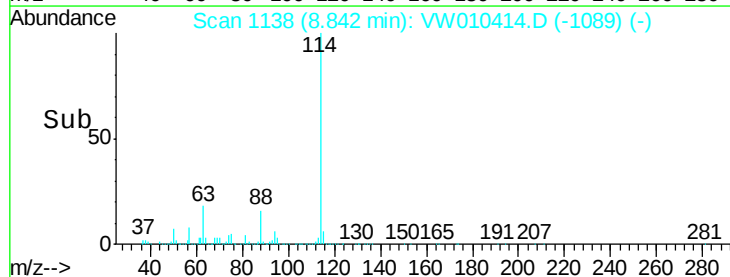
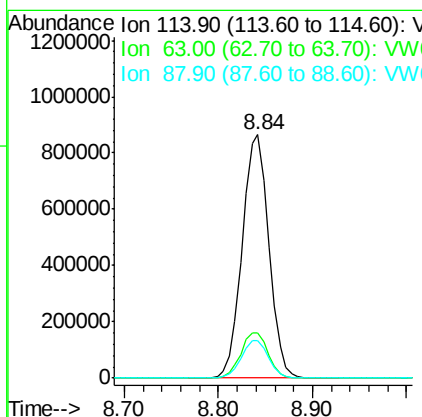
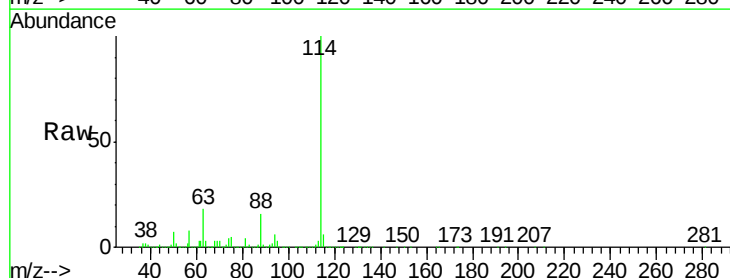
Tgt Ion: 114 Resp: 1712795

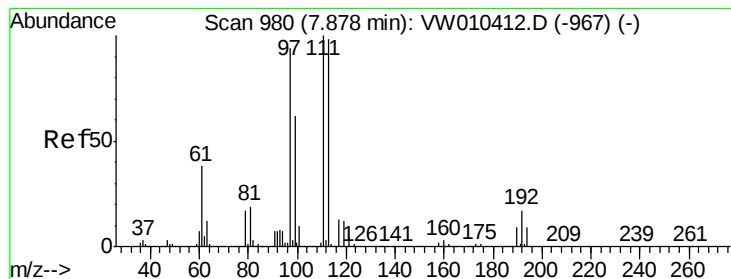
Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.6

88 15.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 140.824 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

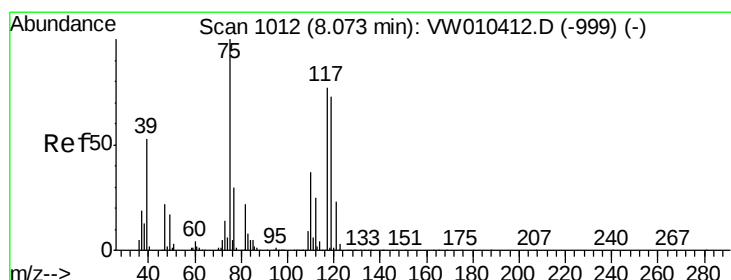
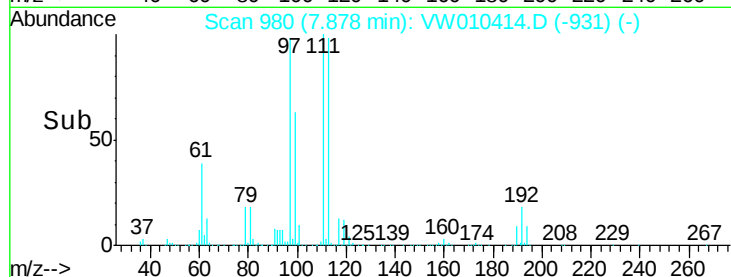
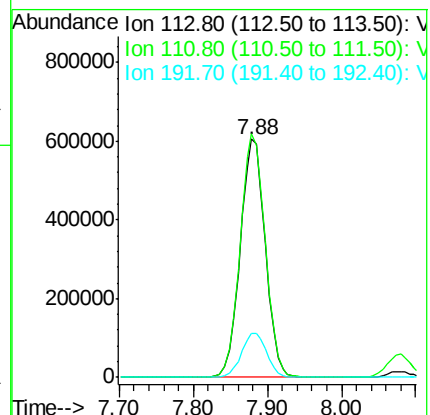
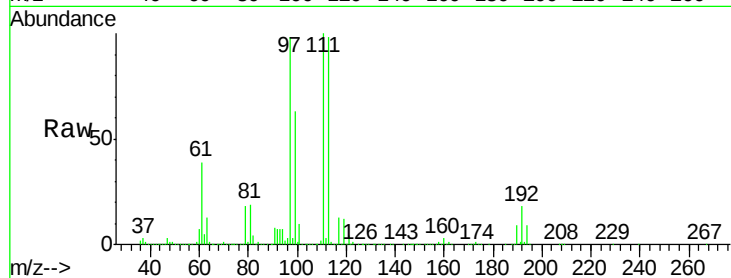
Tot Ion:113 Resp: 1424500

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 18.9 15.2 22.8



#36

1,1-Dichloropropene

Concen: 111.440 ug/l

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

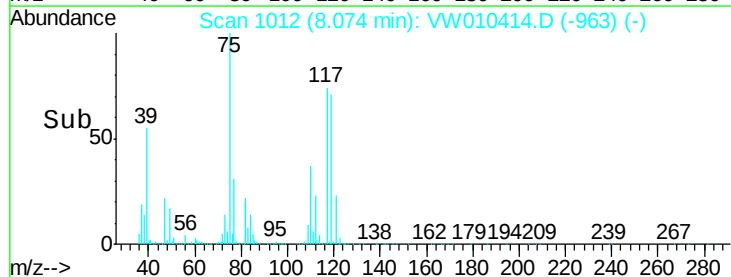
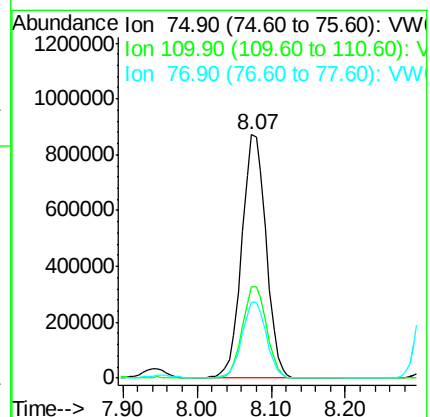
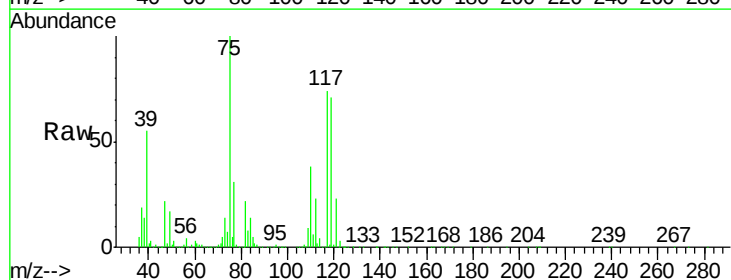
Tgt Ion: 75 Resp: 2000530

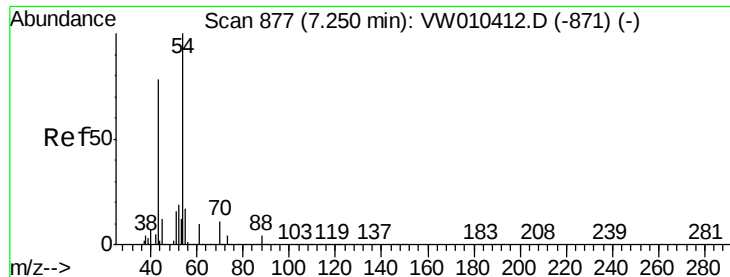
Ion Ratio Lower Upper

75 100

110 37.5 18.9 56.7

77 31.3 24.6 37.0

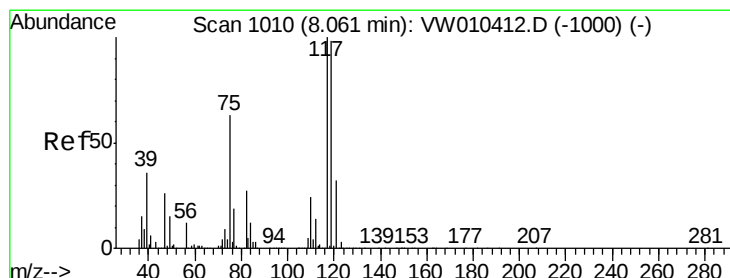
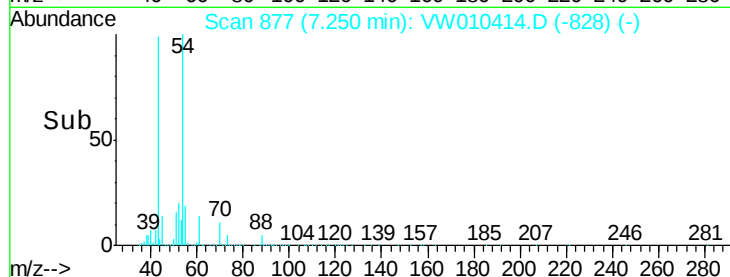
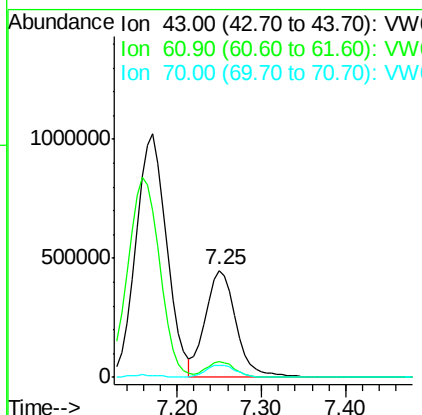
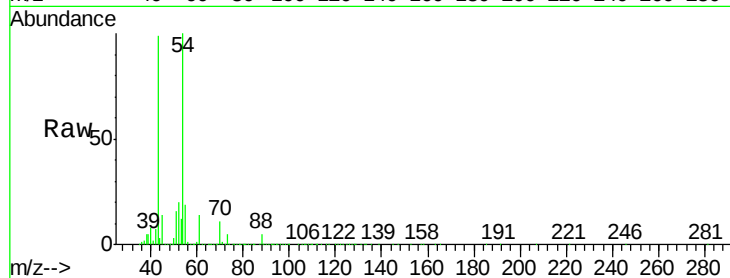




#37  
Ethyl Acetate  
Concen: 117.543 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

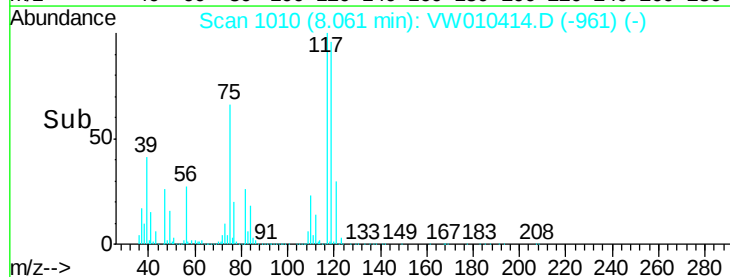
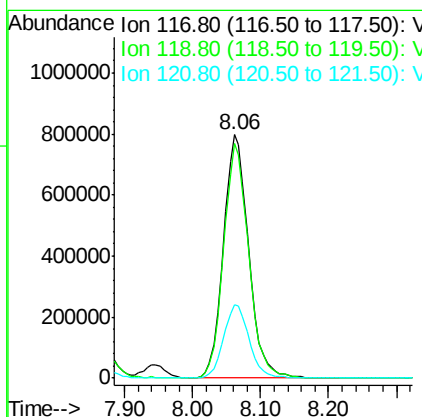
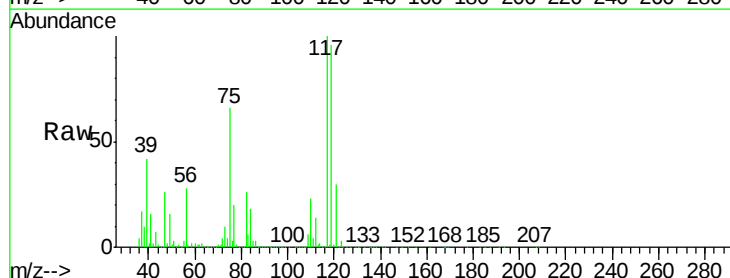
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

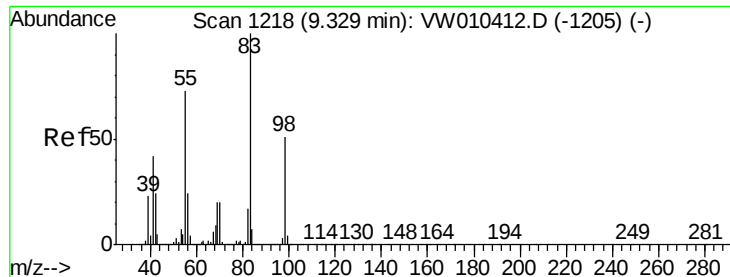
Tot Ion: 43 Resp: 1124335  
Ion Ratio Lower Upper  
43 100  
61 13.8 11.0 16.4  
70 11.3 9.1 13.7



#38  
Carbon Tetrachloride  
Concen: 129.090 ug/l  
RT: 8.06 min Scan# 1010  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 117 Resp: 2043835  
Ion Ratio Lower Upper  
117 100  
119 96.4 78.2 117.4  
121 30.0 25.3 37.9

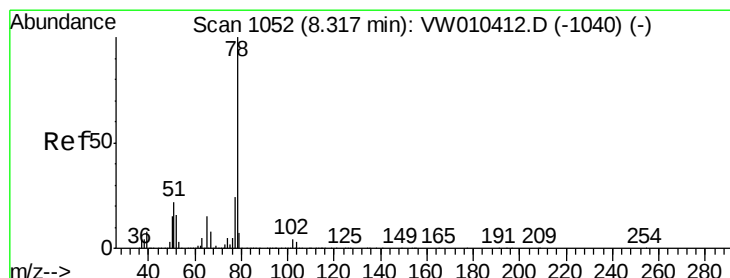
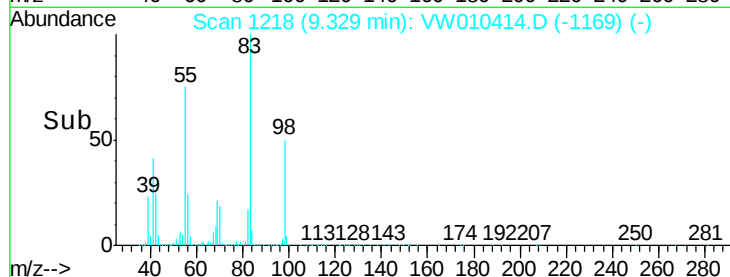
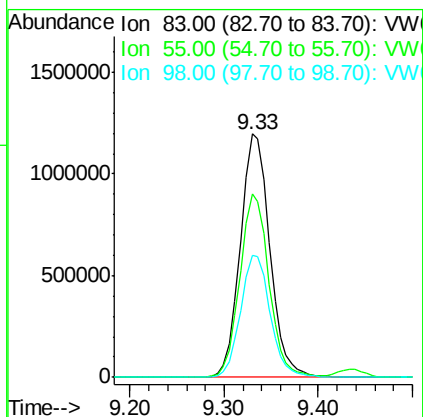
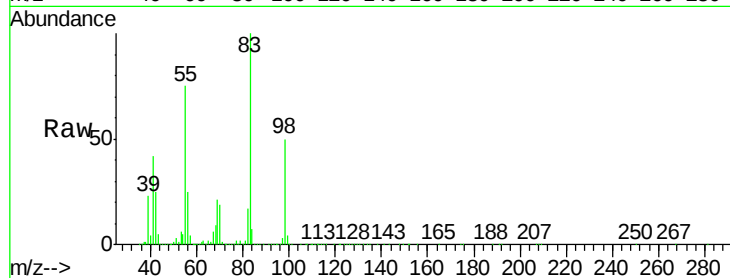




#39  
Methvlcvclohexane  
Concen: 118.177 ug/l  
RT: 9.33 min Scan# 1218  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

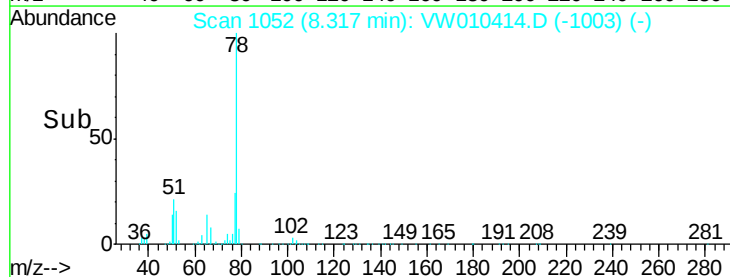
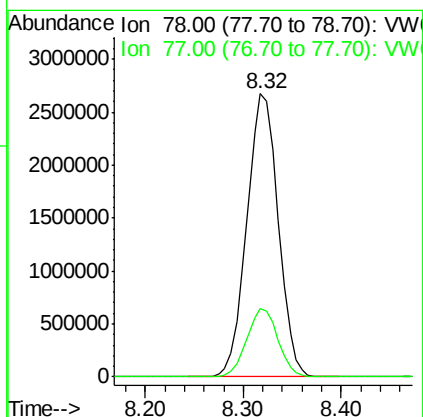
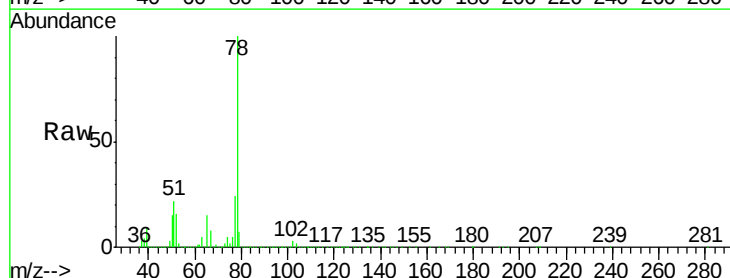
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

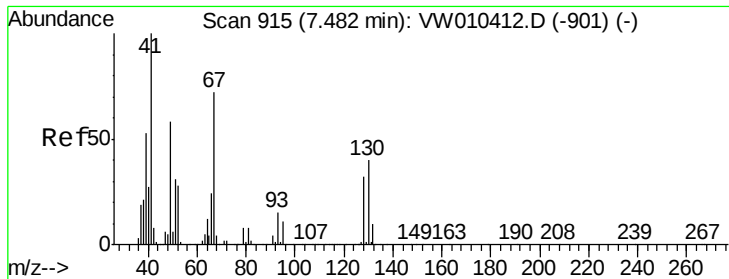
Tot Ion: 83 Resp: 2608131  
Ion Ratio Lower Upper  
83 100  
55 75.2 58.7 88.1  
98 50.1 40.7 61.1



#40  
Benzene  
Concen: 119.712 ug/l  
RT: 8.32 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 78 Resp: 5950035  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.2 28.8

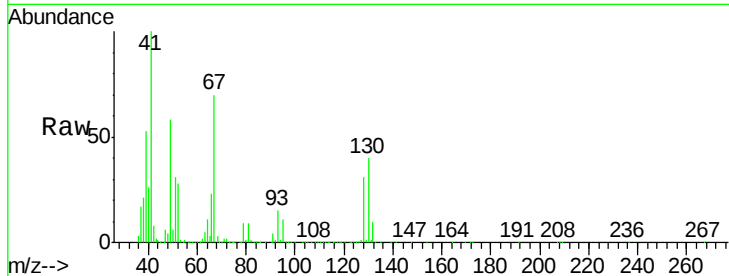




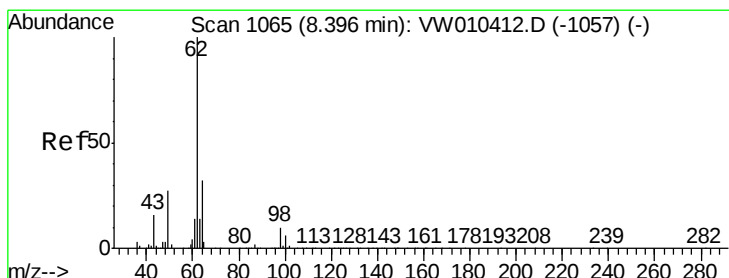
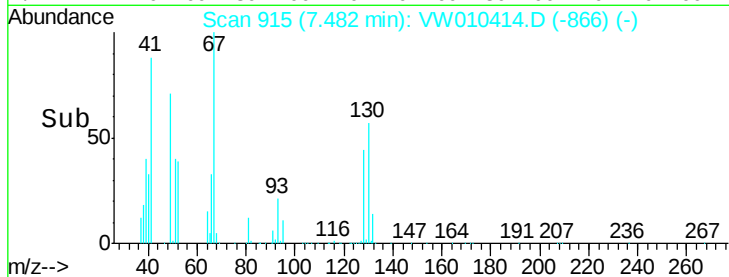
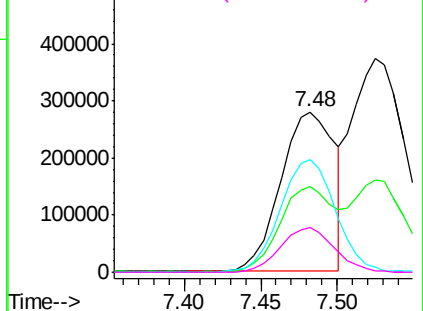
#41  
Methacrylonitrile  
Concen: 126.838 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC150

Tot Ion: 41 Resp: 681816  
Ion Ratio Lower Upper  
41 100  
39 53.3 42.7 64.1  
67 72.2 58.8 88.2  
52 28.0 23.2 34.8

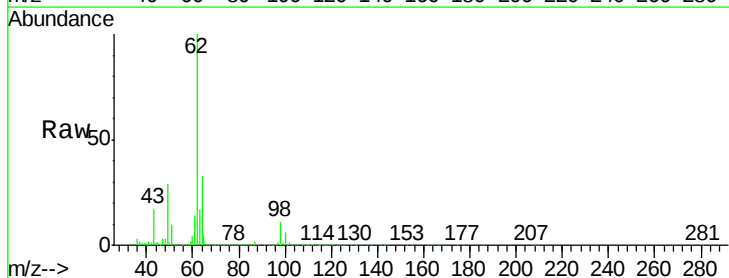


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

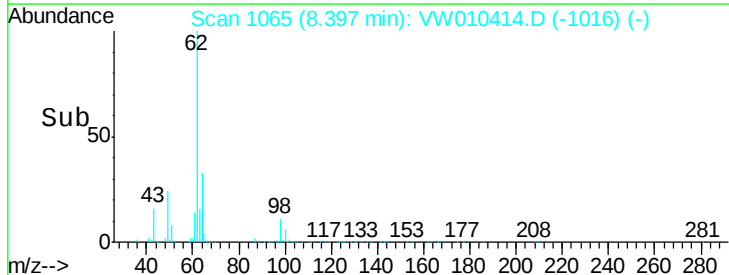
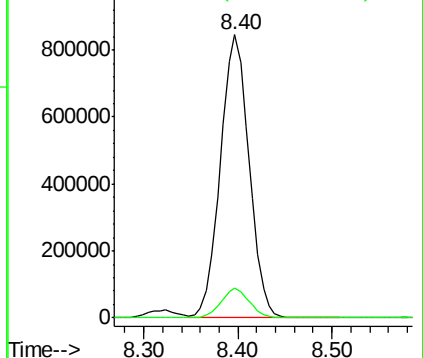


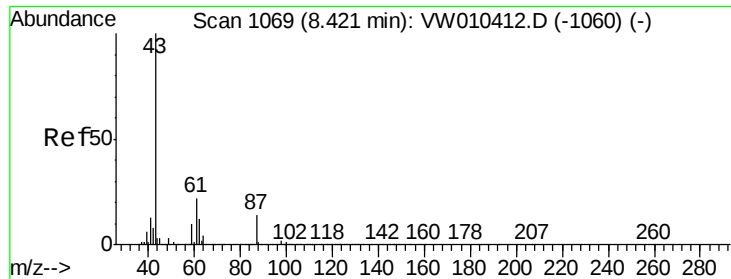
#42  
1,2-Dichloroethane  
Concen: 124.528 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 62 Resp: 1782483  
Ion Ratio Lower Upper  
62 100  
98 10.2 0.0 20.4



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





#43

Isopropyl Acetate

Concen: 138.535 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

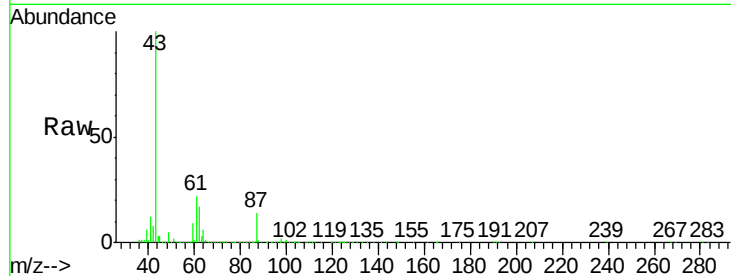
Tot Ion: 43 Resp: 2263484

Ion Ratio Lower Upper

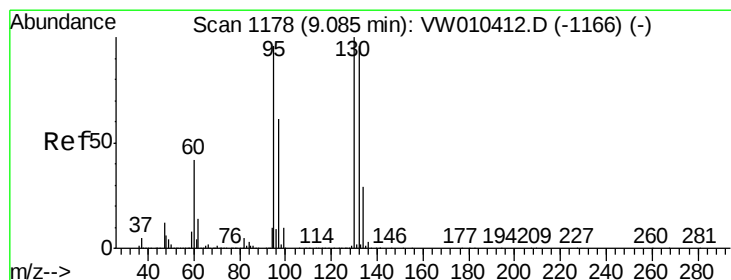
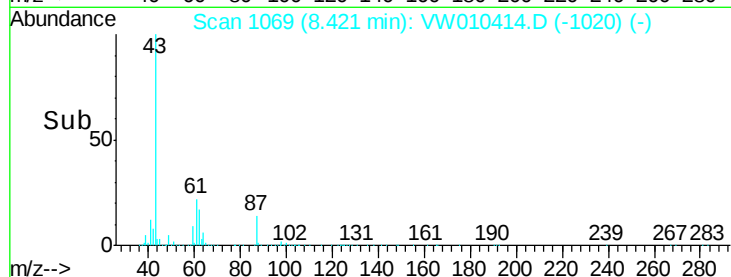
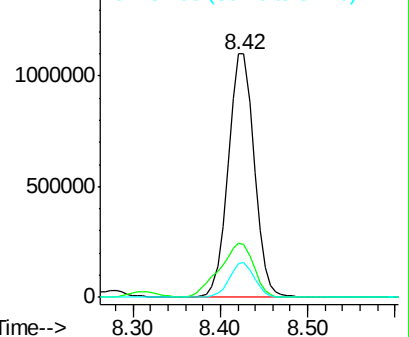
43 100

61 29.3 23.3 34.9

87 14.0 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VW  
1500000 Ion 61.00 (60.70 to 61.70): VW  
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 132.281 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW010414.D

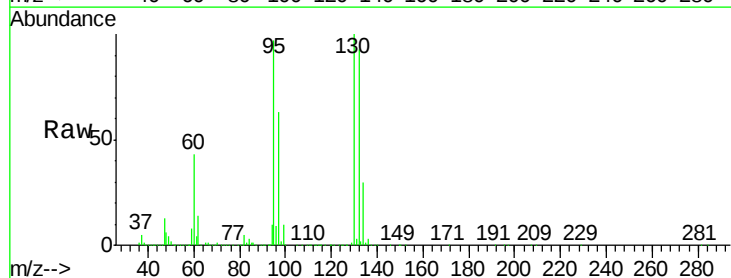
Acq: 16 May 2019 20:55

Tgt Ion:130 Resp: 1679508

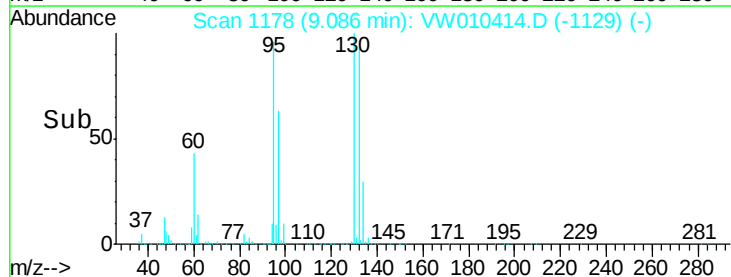
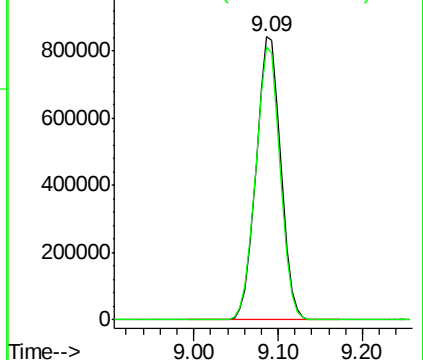
Ion Ratio Lower Upper

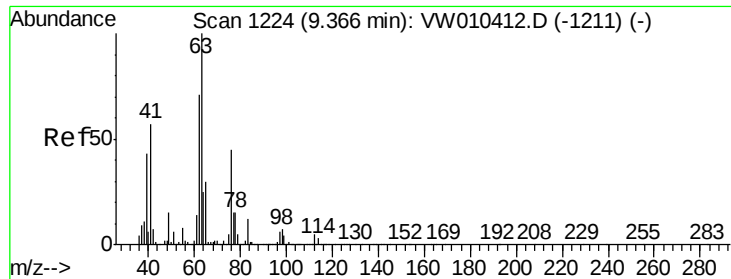
130 100

95 96.5 0.0 192.4



Abundance Ion 129.80 (129.50 to 130.50): V  
1000000 Ion 94.90 (94.60 to 95.60): VW

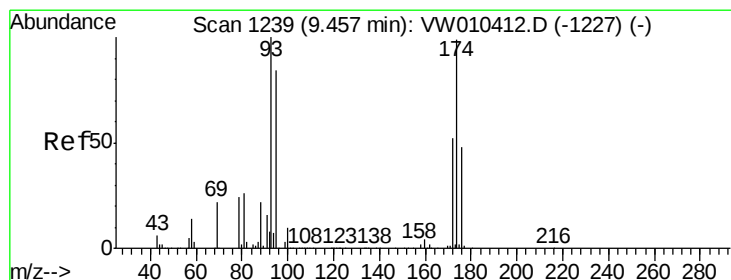
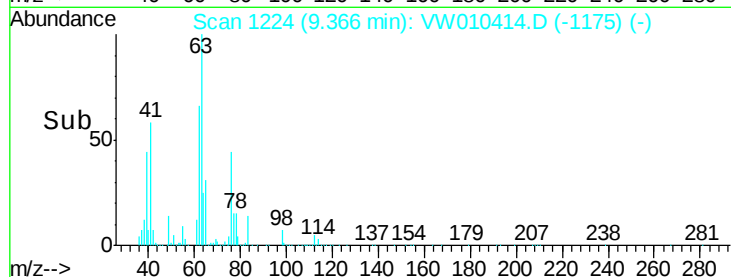
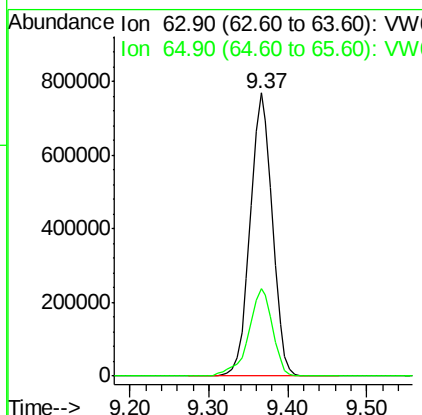
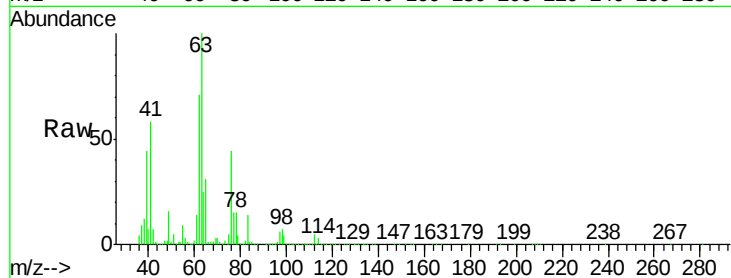




#45  
 1,2-Dichloropropane  
 Concen: 120.882 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

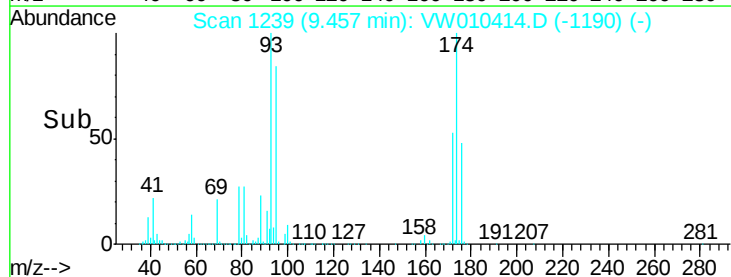
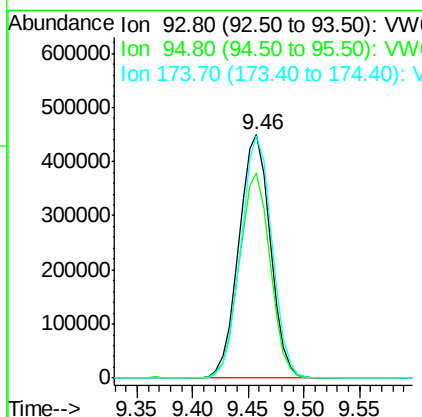
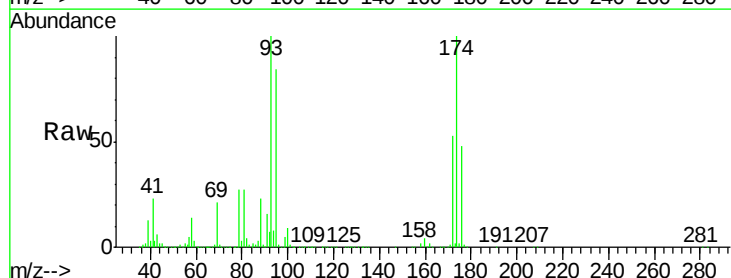
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC150

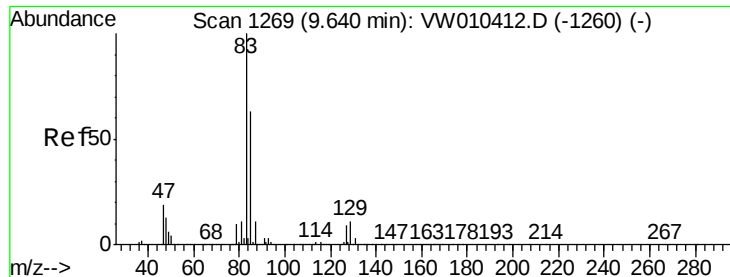
Tot Ion: 63 Resp: 1496187  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 24.1 36.1



#46  
 Dibromomethane  
 Concen: 134.615 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Tgt Ion: 93 Resp: 877771  
 Ion Ratio Lower Upper  
 93 100  
 95 83.6 66.6 100.0  
 174 99.2 79.8 119.6

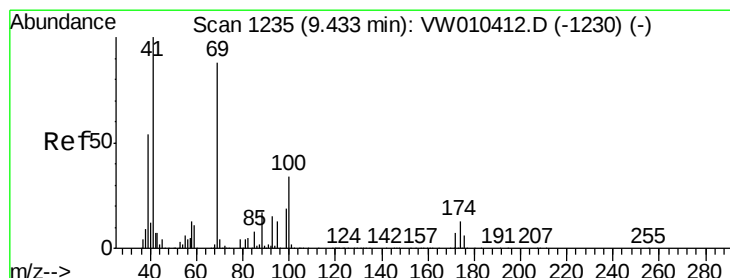
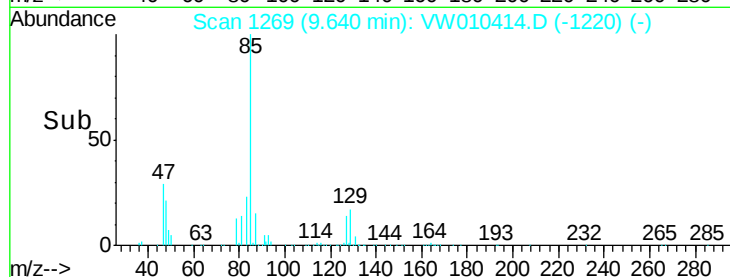
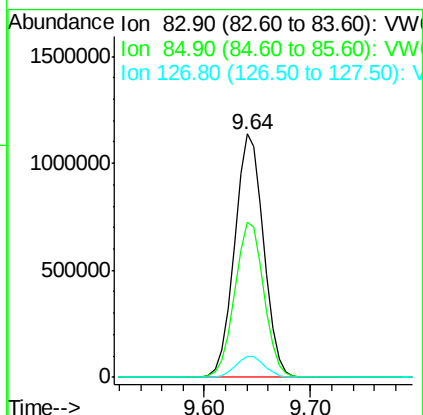
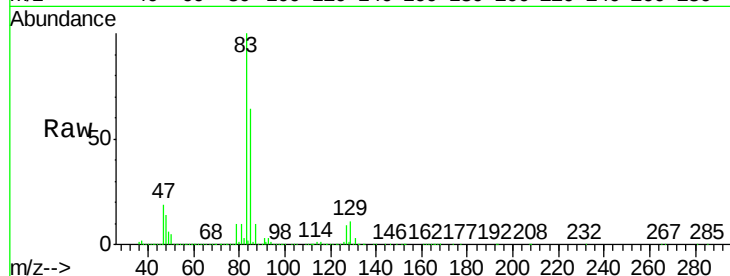




#47  
Bromodichloromethane  
Concen: 137.559 ug/l  
RT: 9.64 min Scan# 1269  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

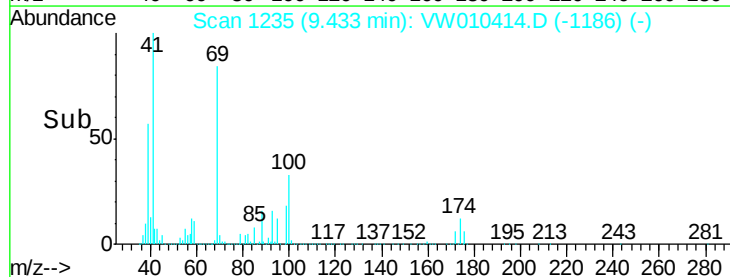
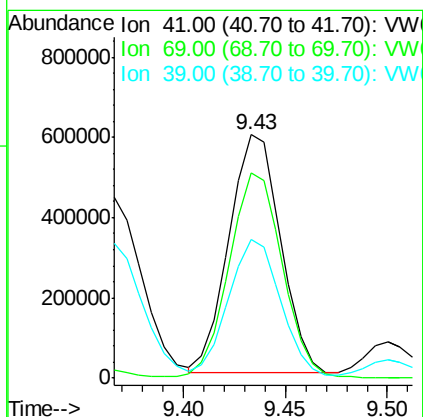
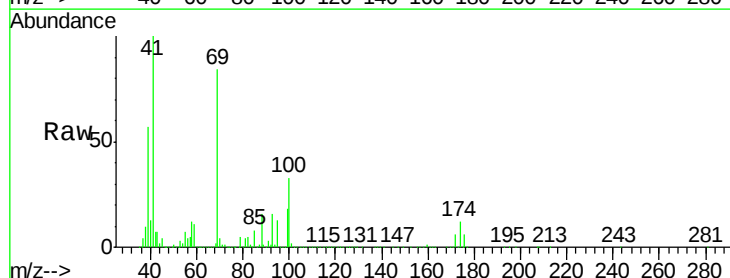
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

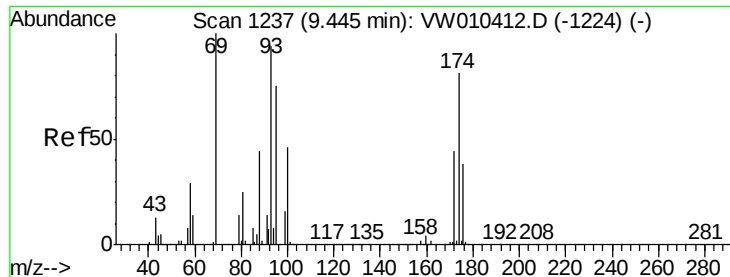
Tot Ion: 83 Resp: 2161438  
Ion Ratio Lower Upper  
83 100  
85 64.0 50.2 75.2  
127 8.7 6.9 10.3



#48  
Methyl methacrylate  
Concen: 136.791 ug/l  
RT: 9.43 min Scan# 1235  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 41 Resp: 1040986  
Ion Ratio Lower Upper  
41 100  
69 89.0 72.6 108.8  
39 59.4 48.0 72.0





#49

1,4-Dioxane

Concen: 2767.929 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

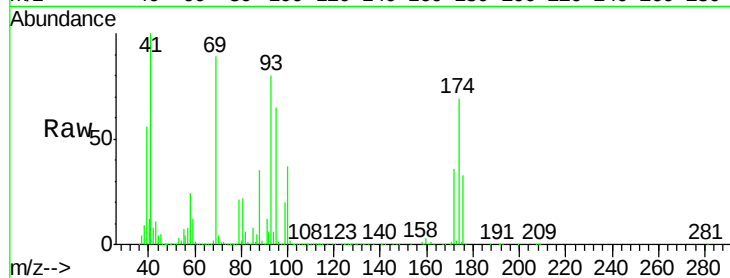
Tot Ion: 88 Resp: 313048

Ion Ratio Lower Upper

88 100

43 29.3 24.6 36.8

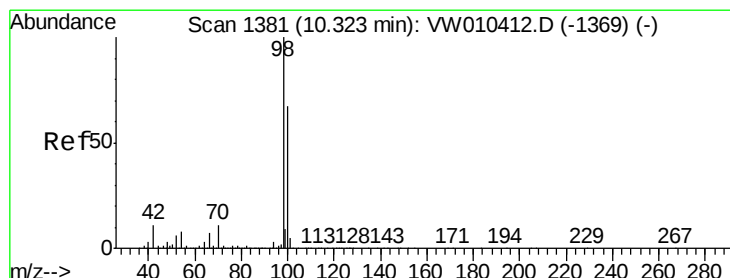
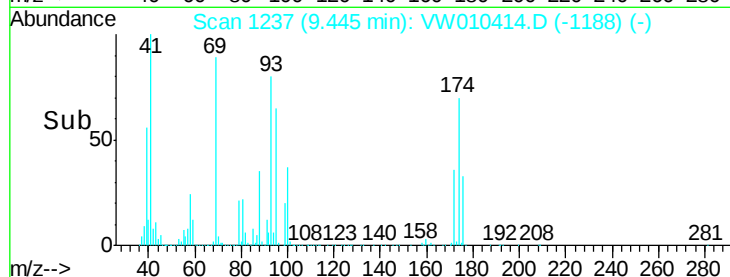
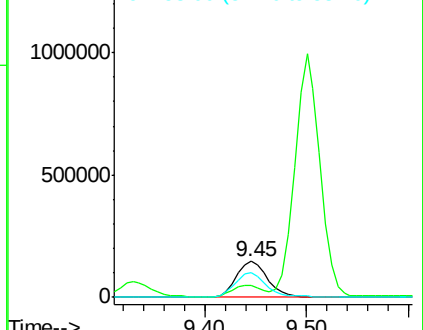
58 69.3 56.2 84.4



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: 134.649 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010414.D

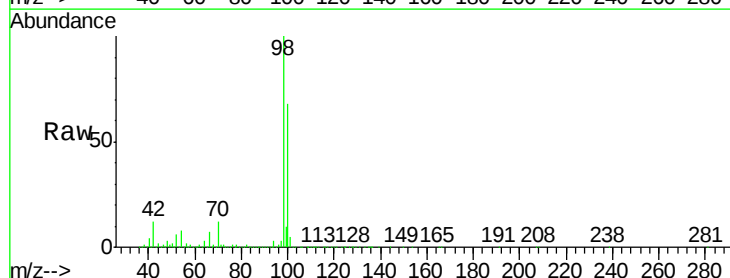
Acq: 16 May 2019 20:55

Tgt Ion: 98 Resp: 5469906

Ion Ratio Lower Upper

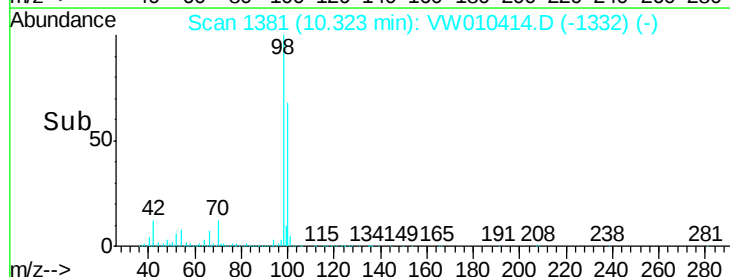
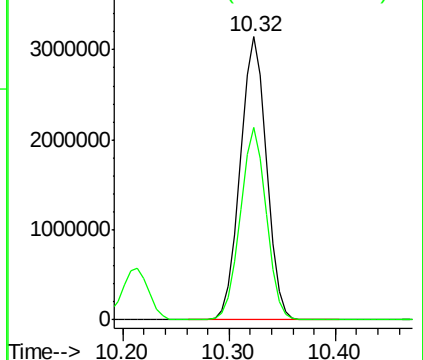
98 100

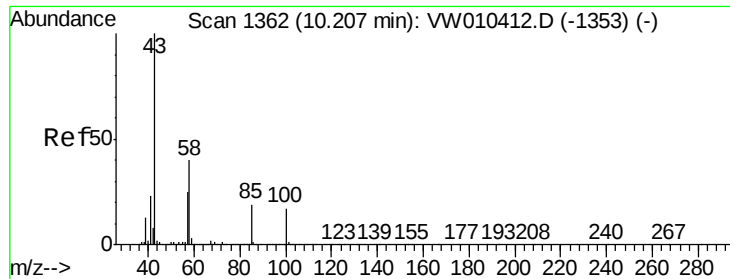
100 67.0 53.6 80.4



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: 652.553 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

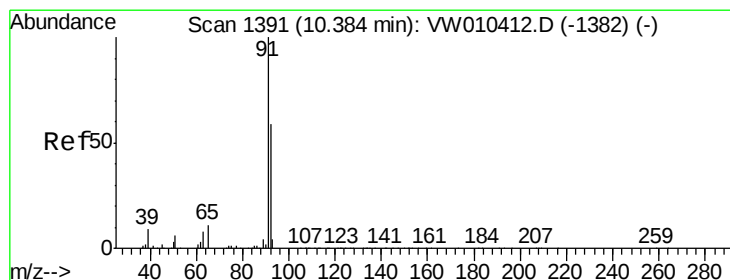
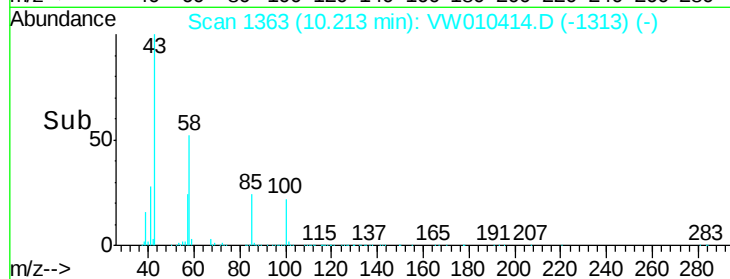
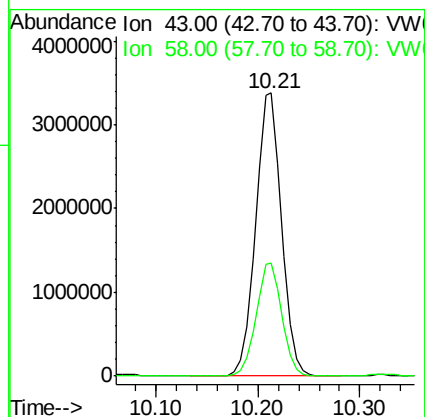
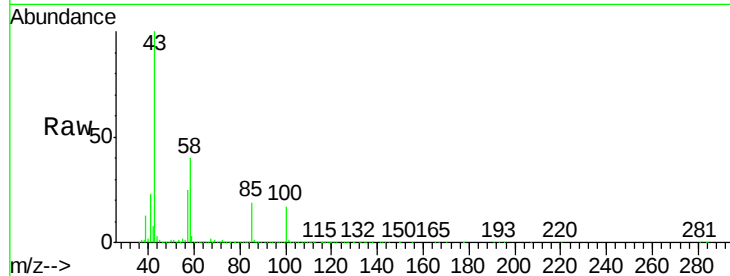
VSTDIC150

Tot Ion: 43 Resp: 5977781

Ion Ratio Lower Upper

43 100

58 39.8 32.1 48.1



#52

Toluene

Concen: 129.981 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW010414.D

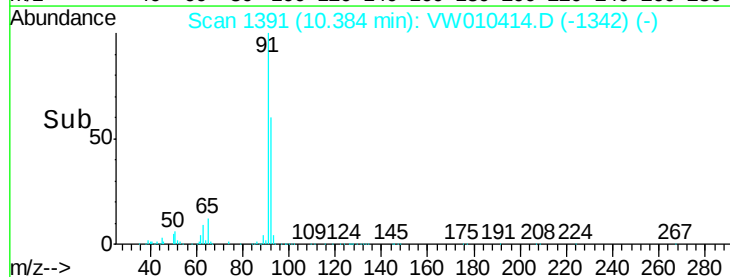
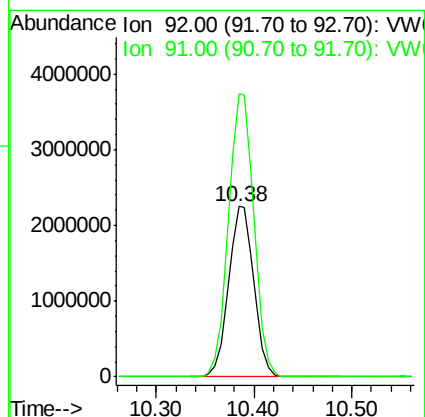
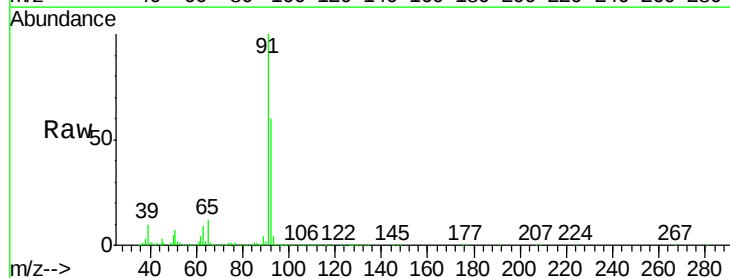
Acq: 16 May 2019 20:55

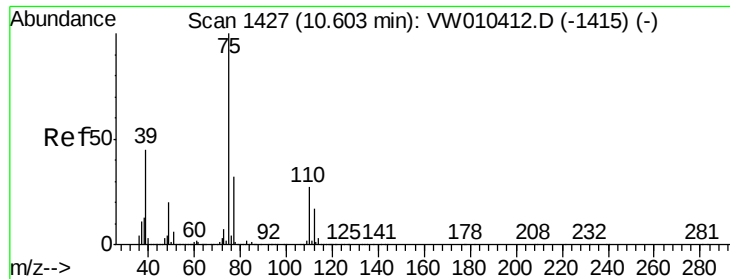
Tgt Ion: 92 Resp: 3992945

Ion Ratio Lower Upper

92 100

91 167.8 134.9 202.3





#53

t-1,3-Dichloropropene

Concen: 145.460 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampled :

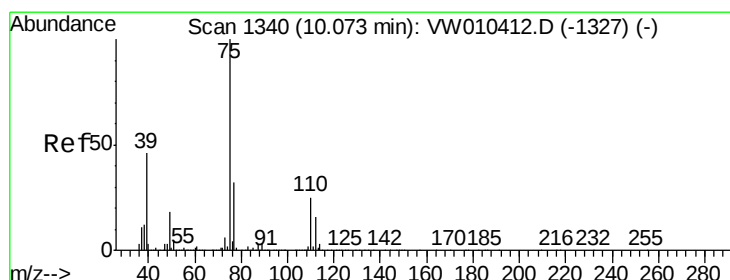
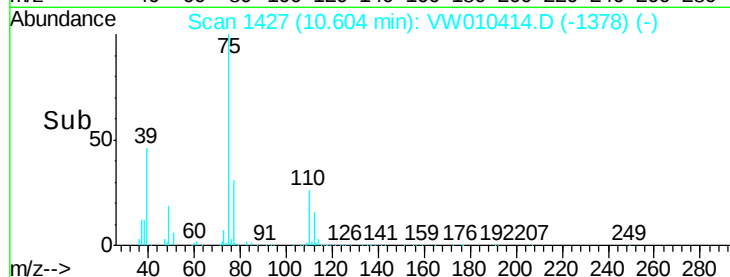
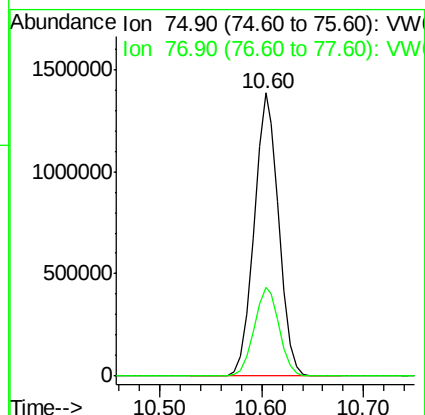
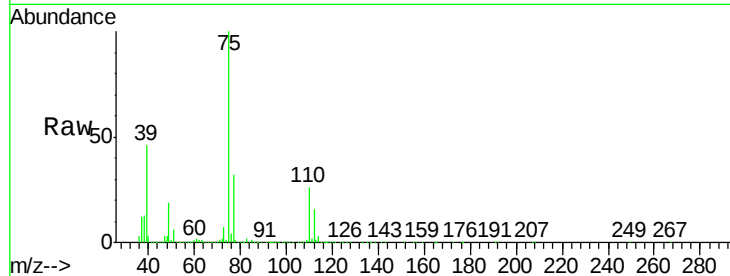
VSTDIC150

Tot Ion: 75 Resp: 2315101

Ion Ratio Lower Upper

75 100

77 31.5 25.6 38.4



#54

cis-1,3-Dichloropropene

Concen: 137.370 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

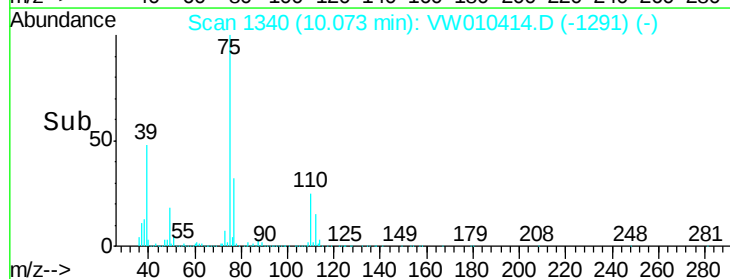
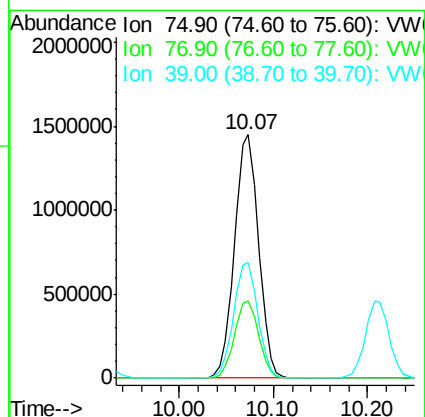
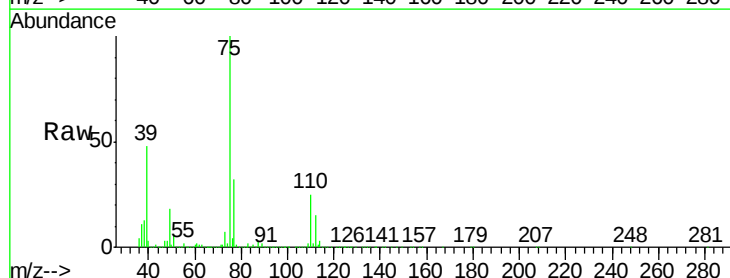
Tgt Ion: 75 Resp: 2571593

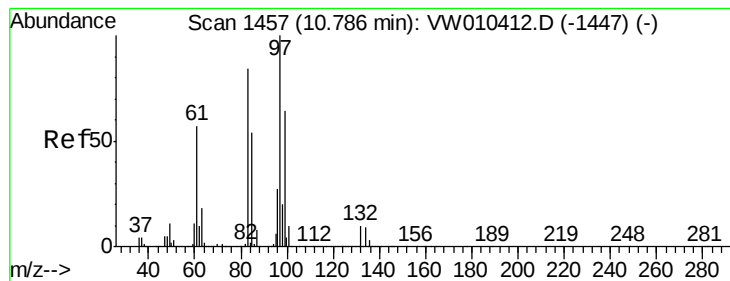
Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3

39 47.6 37.1 55.7





#55

1,1,2-Trichloroethane

Concen: 137.611 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

Tot Ion: 97 Resp: 1280841

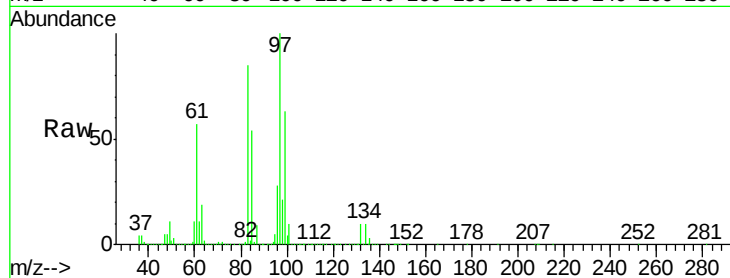
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 84.7  | 67.2  | 100.8 |
| 85  | 53.6  | 43.1  | 64.7  |
| 99  | 62.6  | 51.3  | 76.9  |

97 100

83 84.7 67.2 100.8

85 53.6 43.1 64.7

99 62.6 51.3 76.9



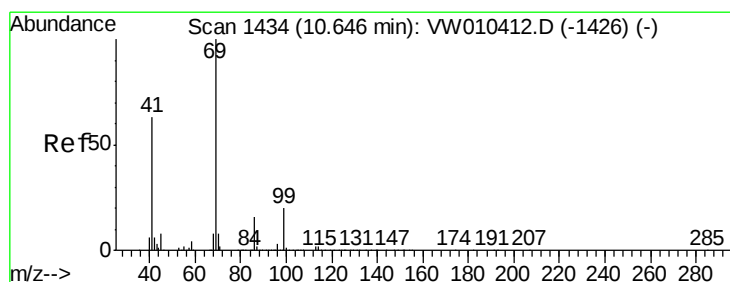
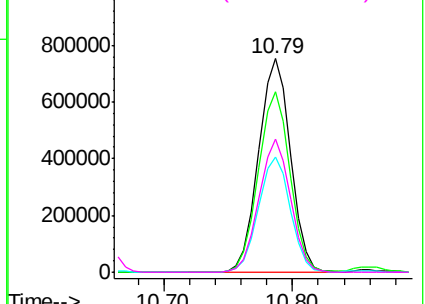
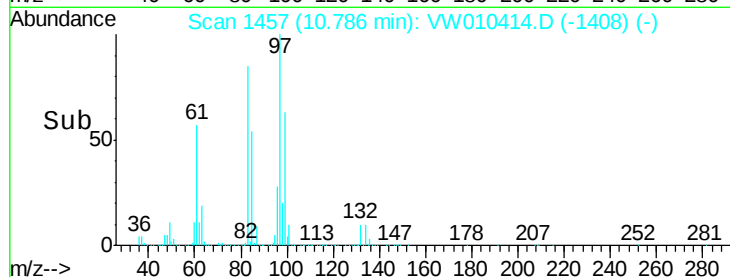
Abundance

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



#56

Ethyl methacrylate

Concen: 152.493 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

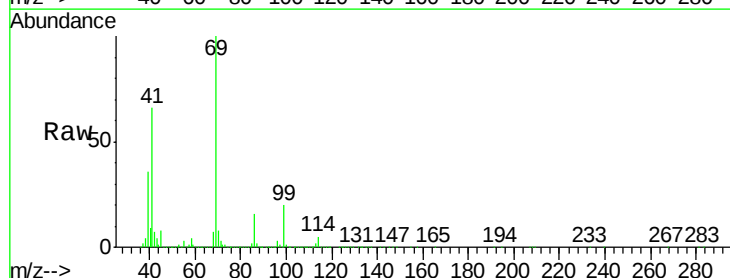
Tgt Ion: 69 Resp: 1881061

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 65.7  | 51.7  | 77.5  |
| 39  | 33.1  | 26.2  | 39.2  |

69 100

41 65.7 51.7 77.5

39 33.1 26.2 39.2

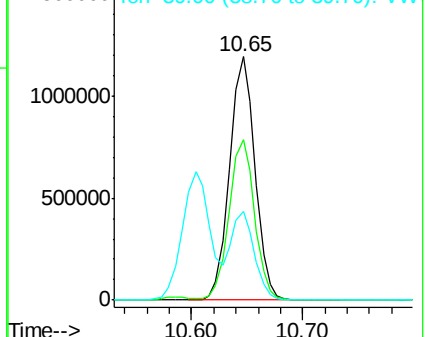
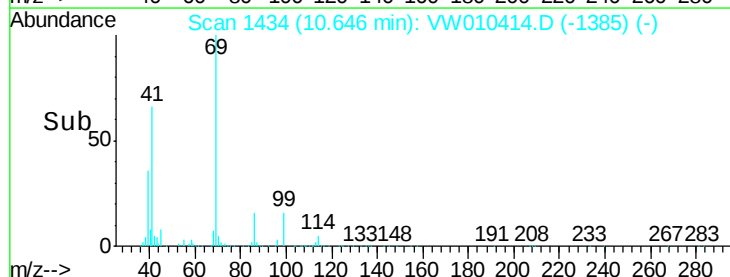


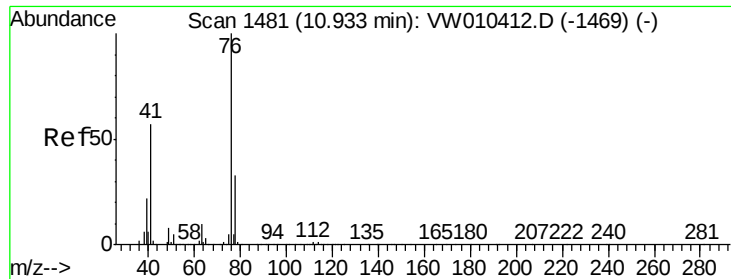
Abundance

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





#57

1,3-Dichloropropane

Concen: 130.828 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

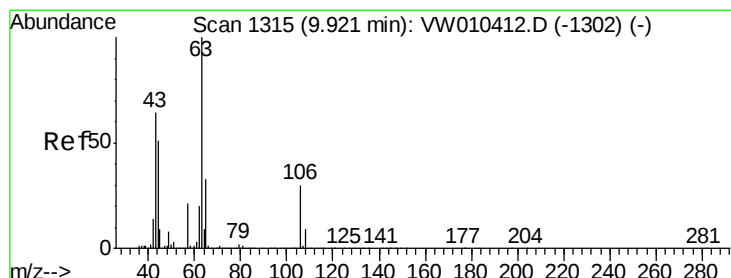
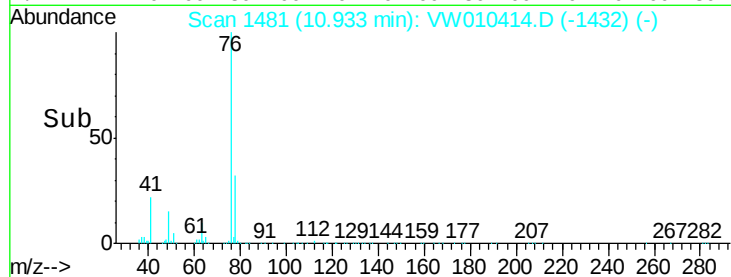
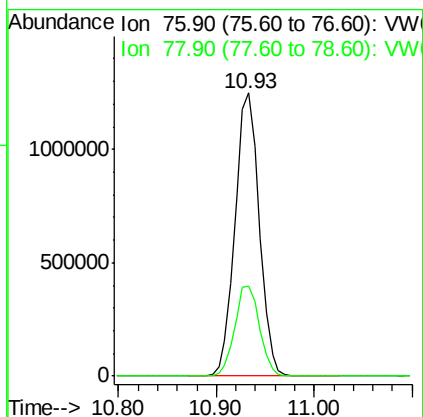
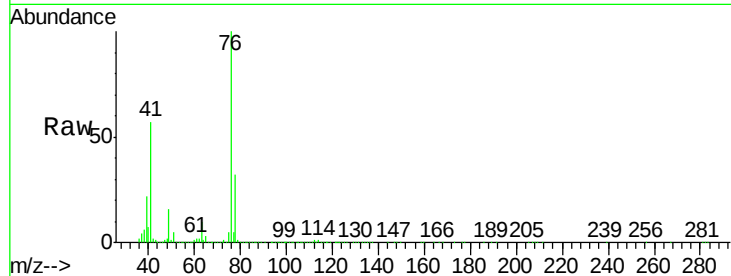
VSTDIC150

Tot Ion: 76 Resp: 2145815

Ion Ratio Lower Upper

76 100

78 32.6 26.2 39.4



#58

2-Chloroethyl Vinyl ether

Concen: 738.759 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW010414.D

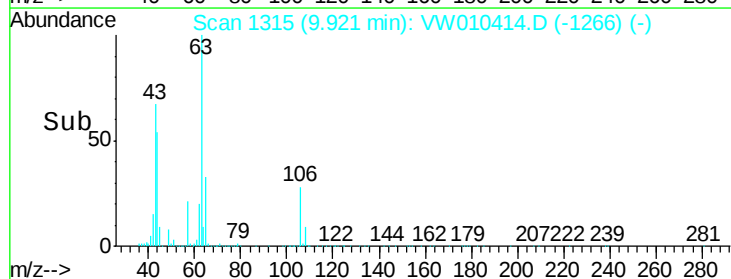
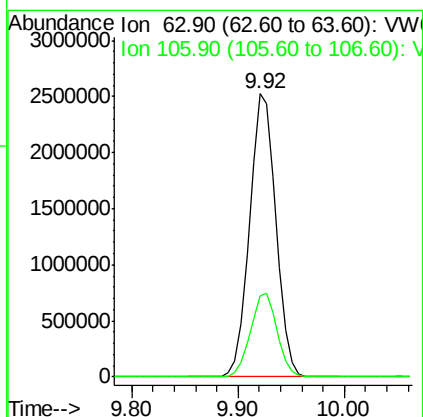
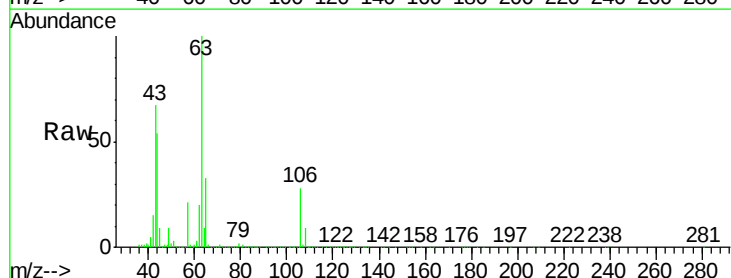
Acq: 16 May 2019 20:55

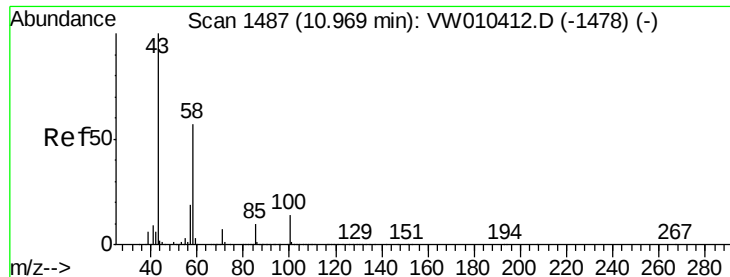
Tgt Ion: 63 Resp: 4368944

Ion Ratio Lower Upper

63 100

106 29.8 24.5 36.7





#59

2-Hexanone

Concen: 658.935 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

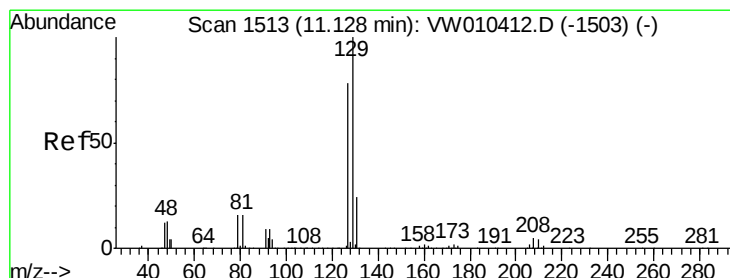
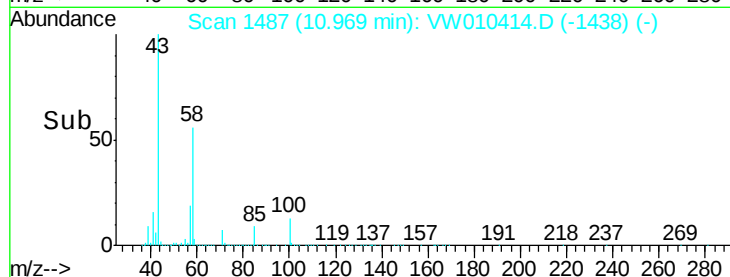
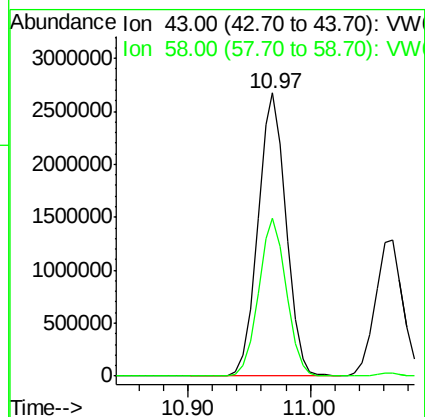
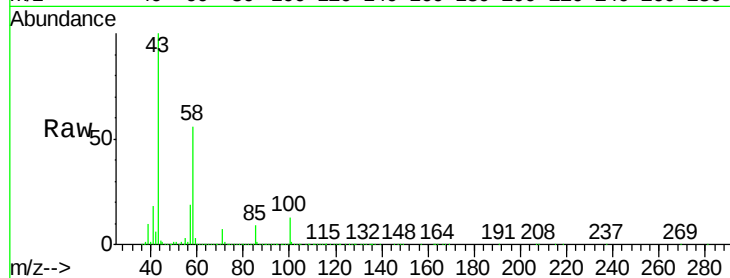
VSTDIC150

Tot Ion: 43 Resp: 4261881

Ion Ratio Lower Upper

43 100

58 55.1 28.0 83.9



#60

Dibromochloromethane

Concen: 157.147 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010414.D

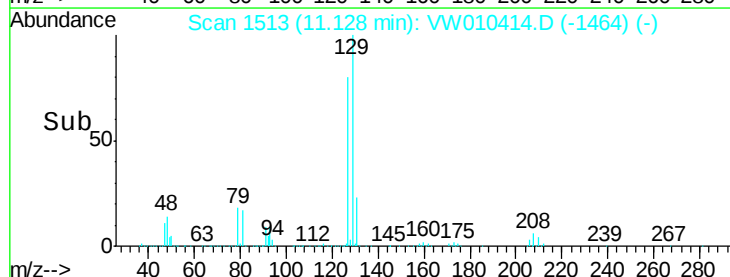
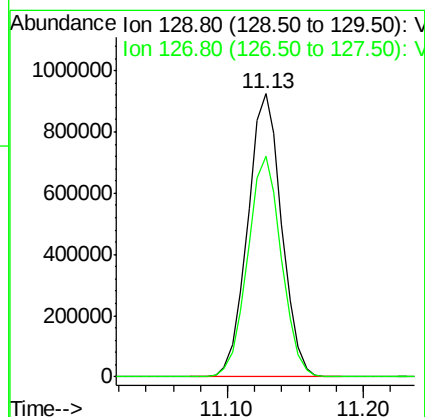
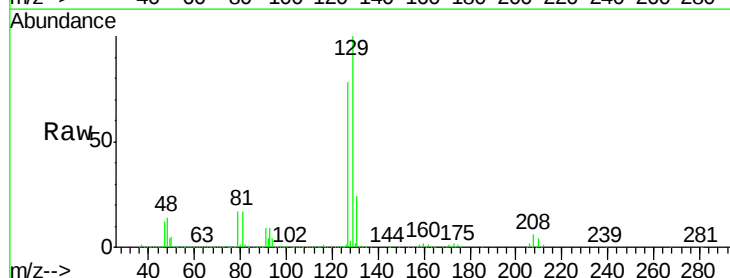
Acq: 16 May 2019 20:55

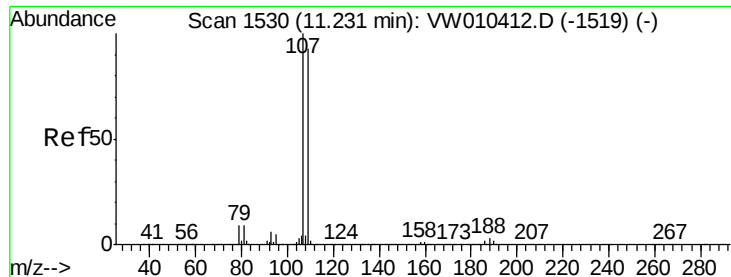
Tgt Ion: 129 Resp: 1611113

Ion Ratio Lower Upper

129 100

127 77.6 39.3 117.9





#61

1,2-Dibromoethane

Concen: 144.200 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

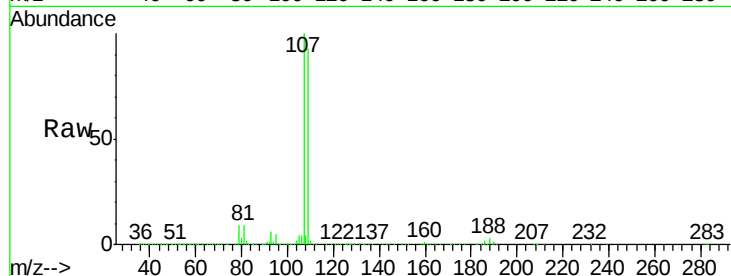
VSTDIC150

Tot Ion: 107 Resp: 1295694

Ion Ratio Lower Upper

107 100

109 93.9 75.1 112.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.23

800000

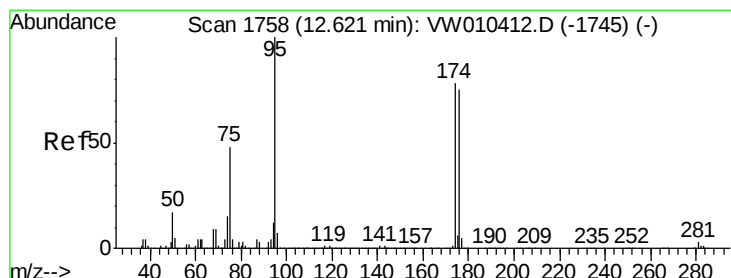
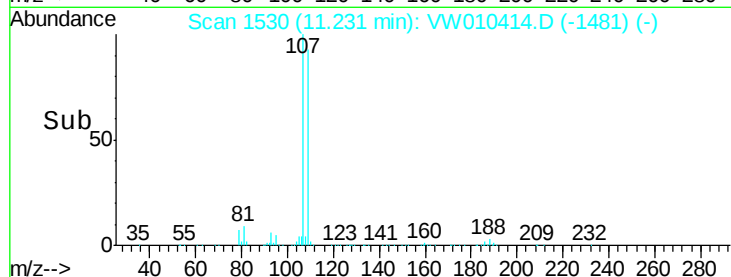
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 146.365 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

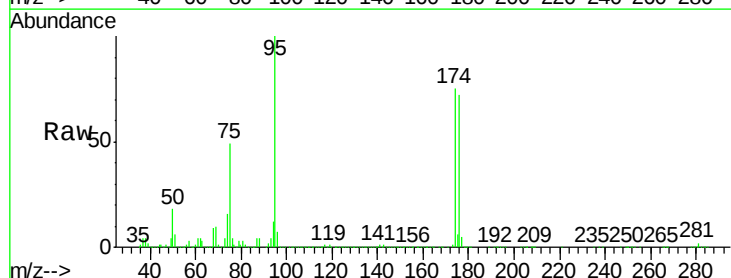
Tgt Ion: 95 Resp: 2135700

Ion Ratio Lower Upper

95 100

174 73.2 0.0 150.2

176 71.2 0.0 144.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

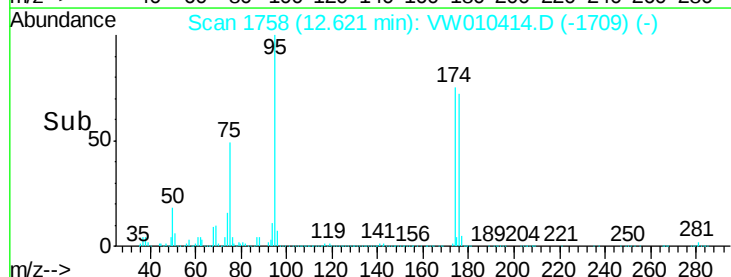
1500000

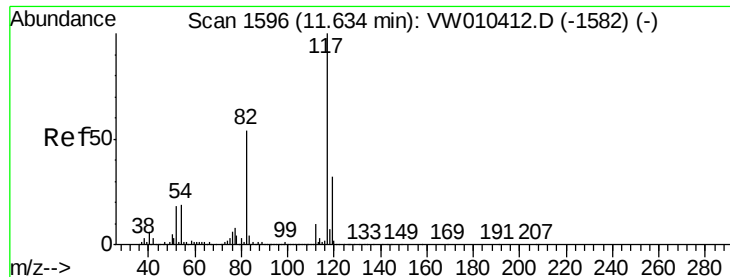
1000000

500000

0

Time-->

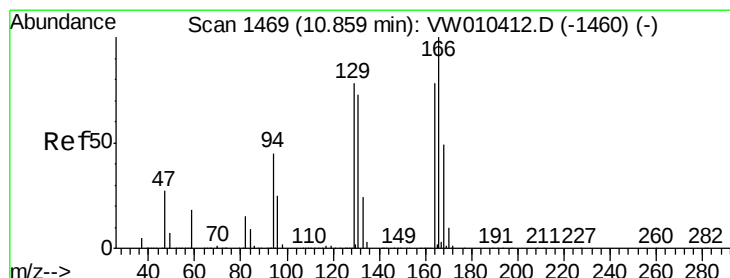
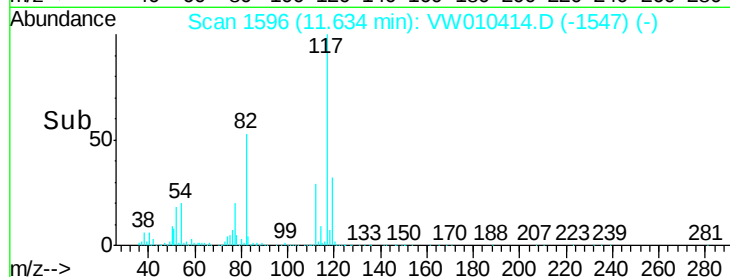
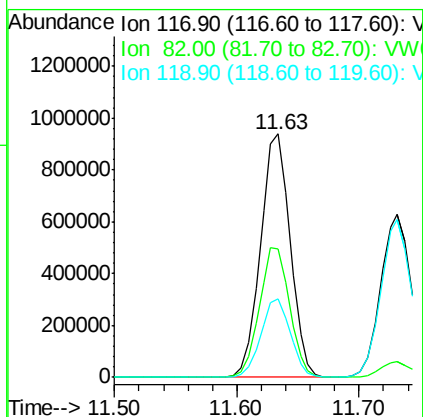
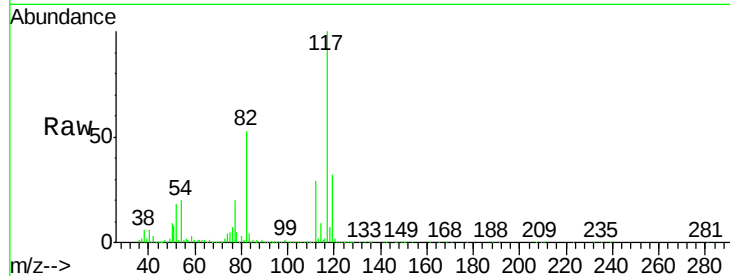




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

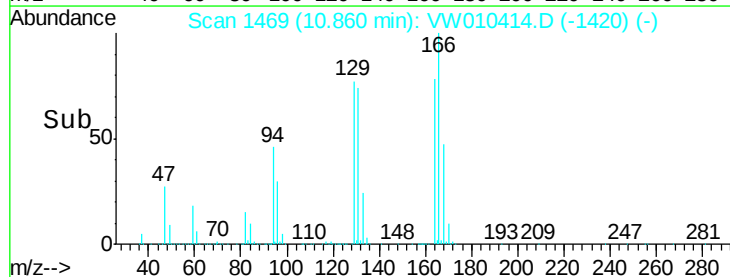
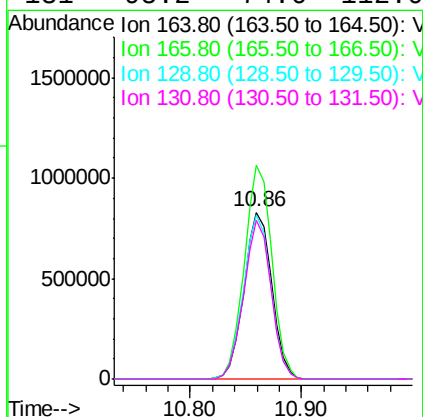
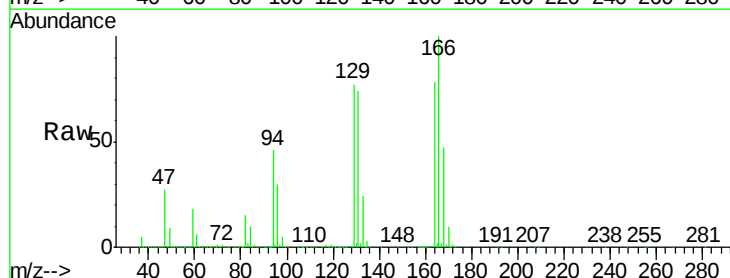
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

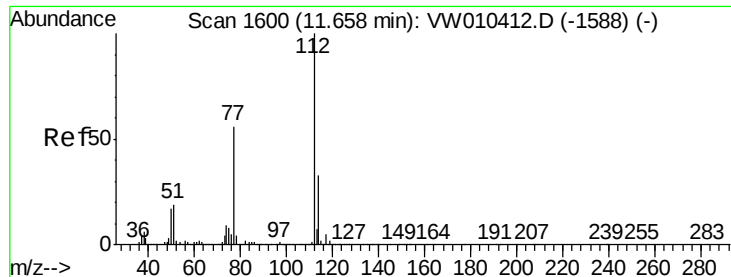
Tot Ion:117 Resp: 1590157  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.0 64.6  
119 32.2 25.7 38.5



#64  
Tetrachloroethene  
Concen: 130.080 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion:164 Resp: 1434761  
Ion Ratio Lower Upper  
164 100  
166 128.2 102.3 153.5  
129 98.0 79.6 119.4  
131 95.2 74.6 112.0





#65

Chlorobenzene

Concen: 132.300 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

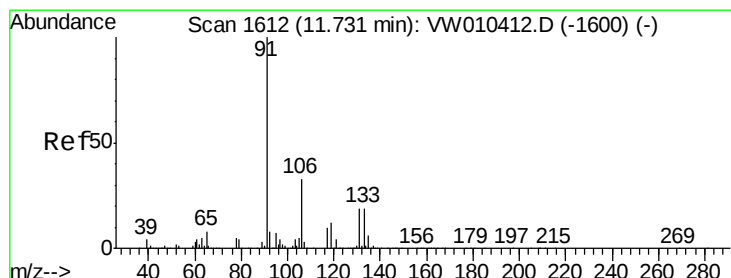
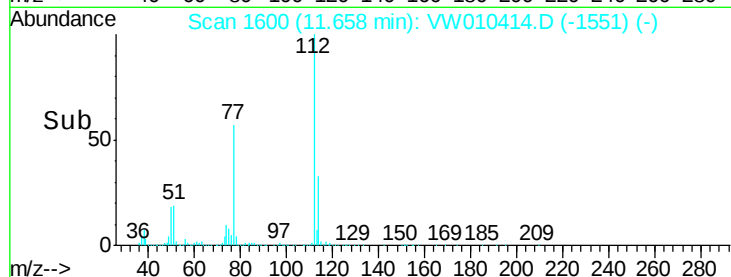
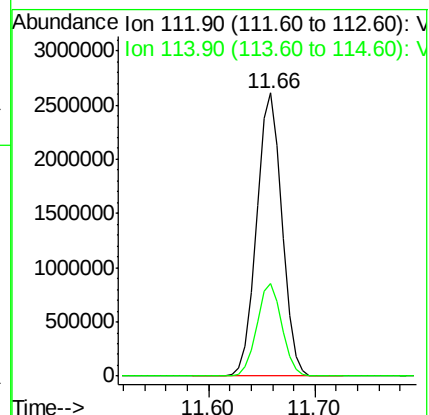
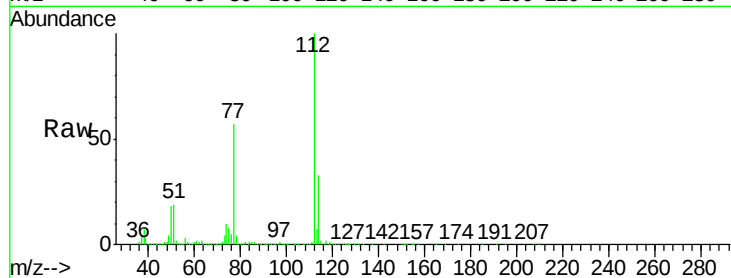
VSTDIC150

Tot Ion:112 Resp: 4346911

Ion Ratio Lower Upper

112 100

114 32.7 26.1 39.1



#66

1,1,1,2-Tetrachloroethane

Concen: 142.824 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

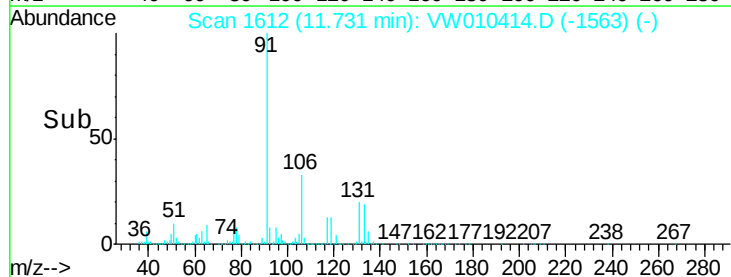
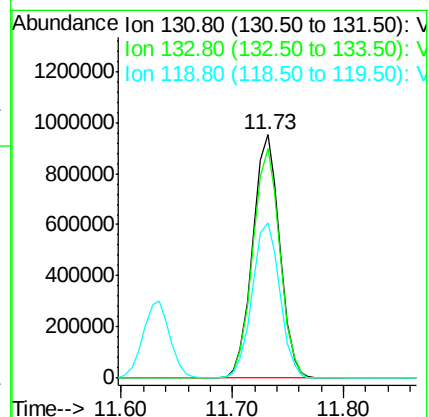
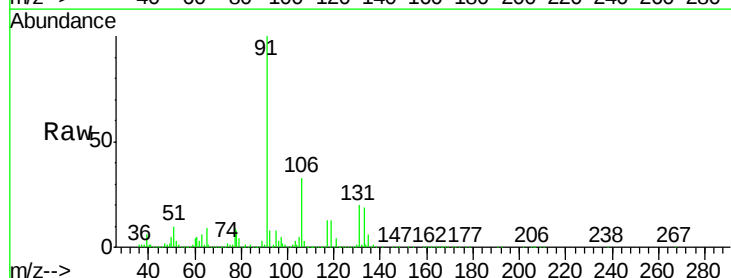
Tgt Ion:131 Resp: 1606457

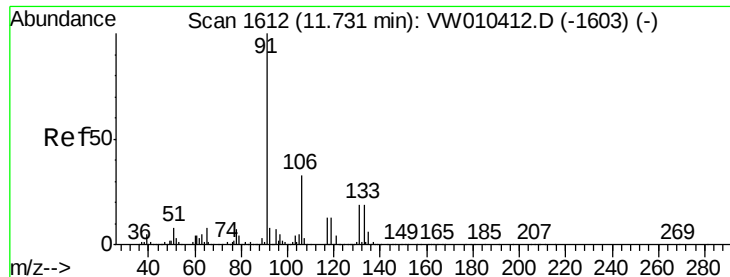
Ion Ratio Lower Upper

131 100

133 94.7 48.0 144.0

119 65.3 32.4 97.0

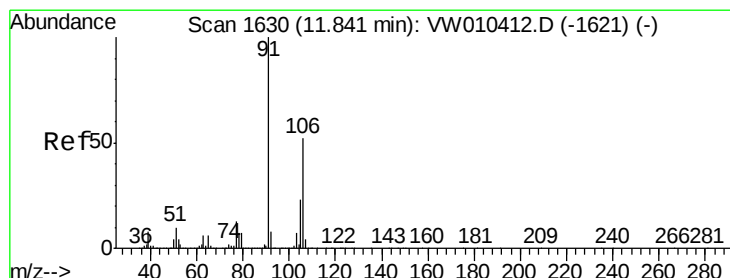
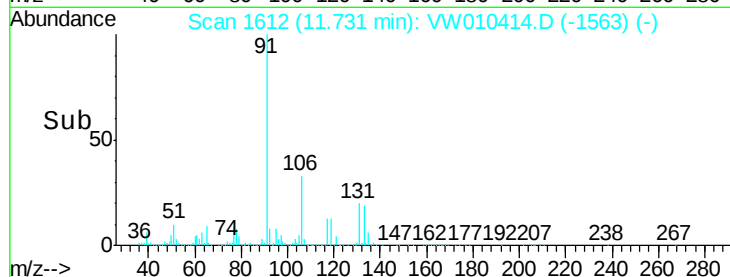
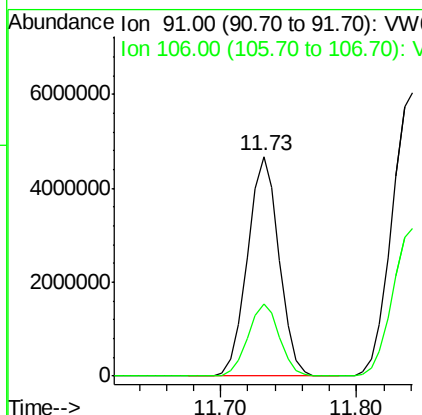
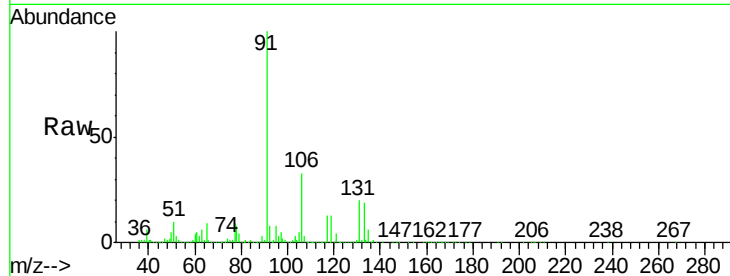




#67  
Ethyl Benzene  
Concen: 127.242 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

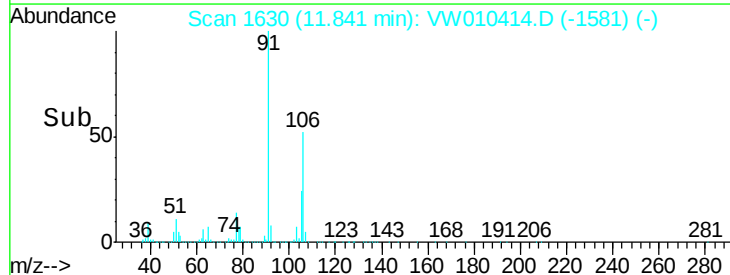
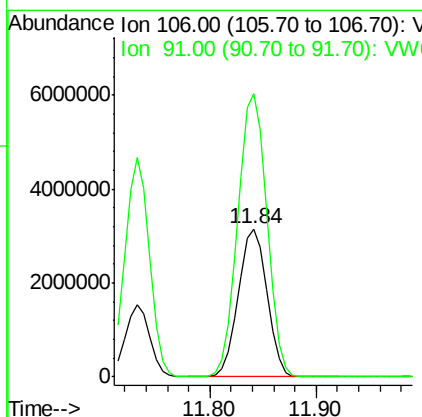
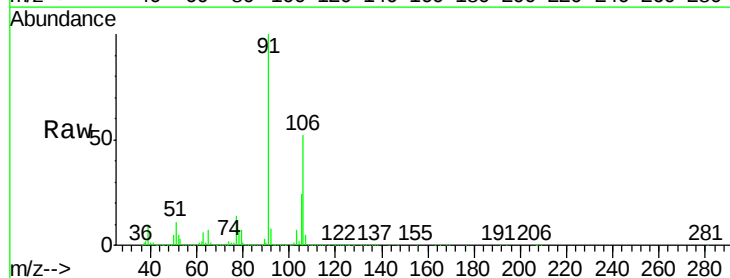
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

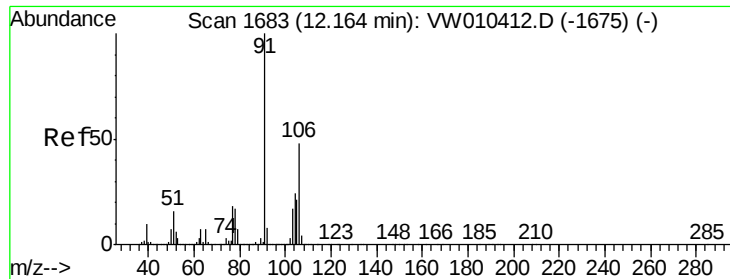
Tot Ion: 91 Resp: 7581101  
Ion Ratio Lower Upper  
91 100  
106 32.8 26.0 39.0



#68  
m/p-Xylenes  
Concen: 267.167 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion: 106 Resp: 5966730  
Ion Ratio Lower Upper  
106 100  
91 194.3 156.2 234.2

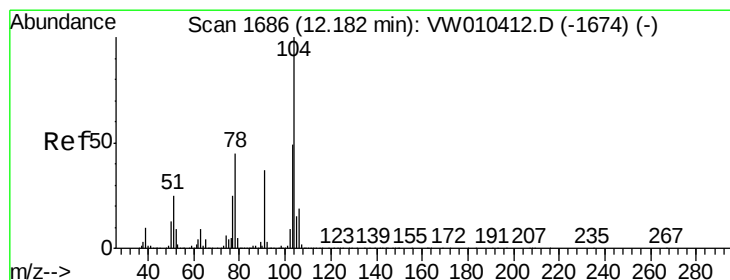
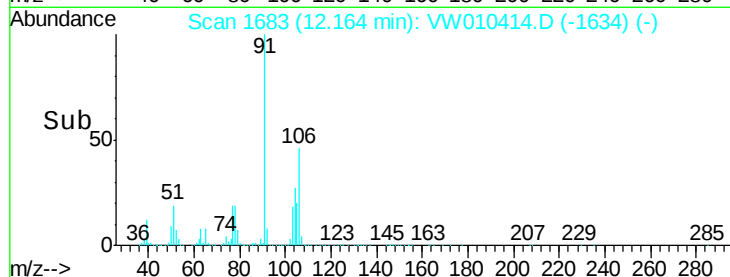
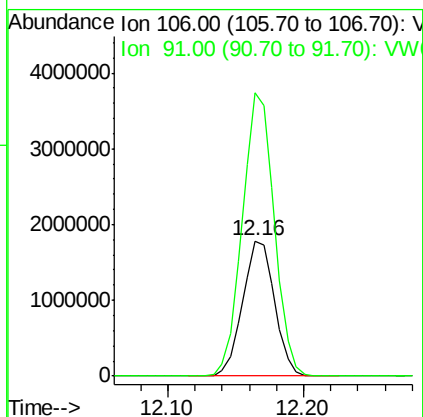
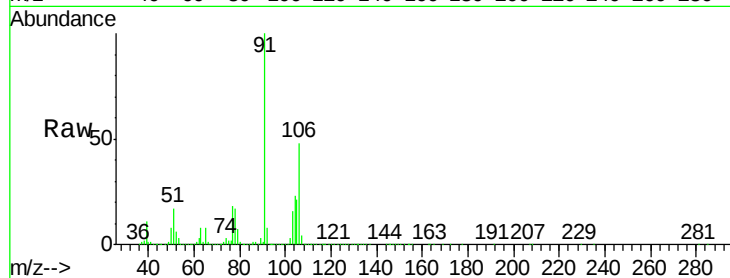




#69  
o-Xylene  
Concen: 143.698 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

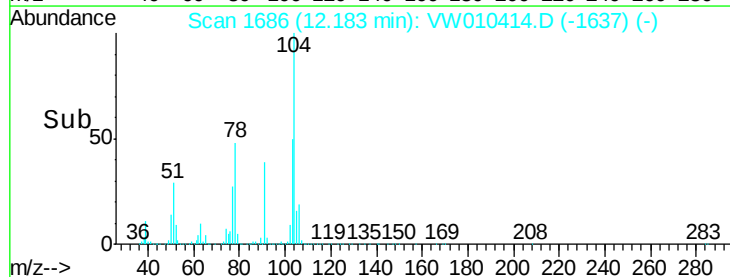
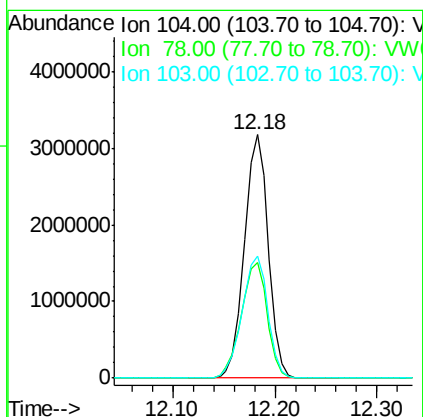
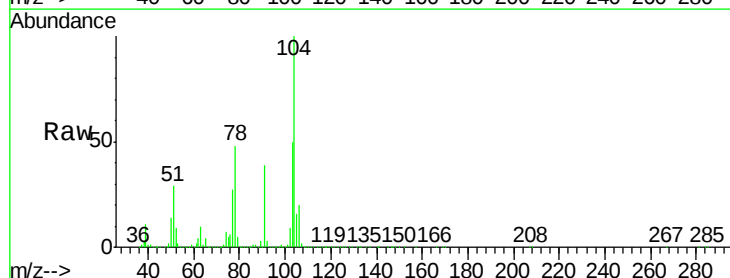
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

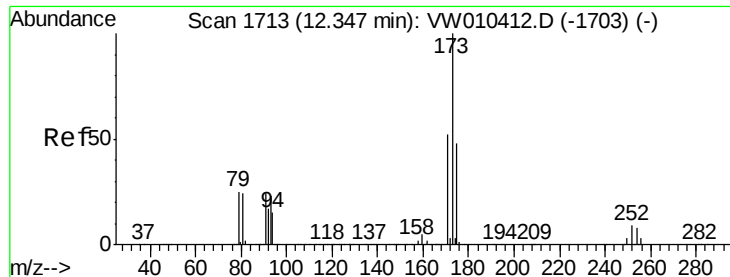
Tot Ion:106 Resp: 2931224  
Ion Ratio Lower Upper  
106 100  
91 208.6 102.8 308.3



#70  
Styrene  
Concen: 145.557 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion:104 Resp: 5165859  
Ion Ratio Lower Upper  
104 100  
78 51.5 39.4 59.2  
103 54.1 42.6 64.0

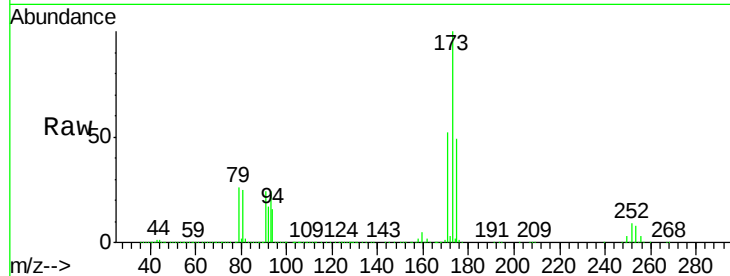




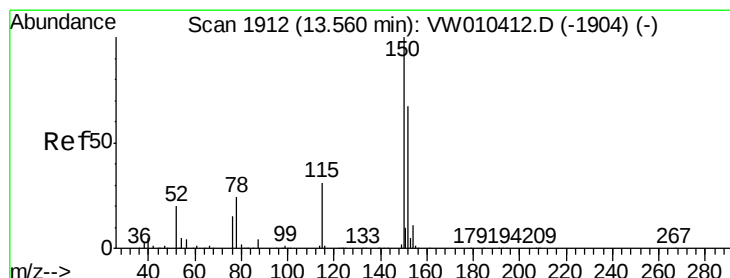
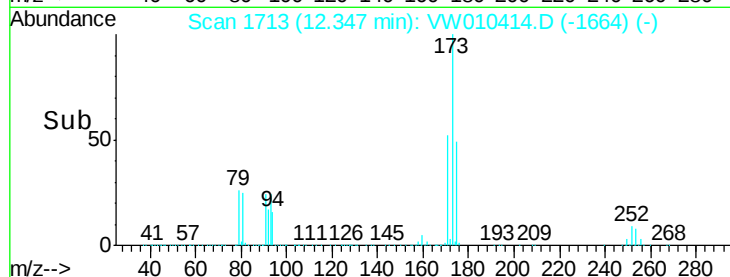
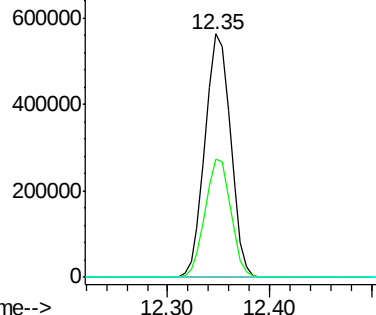
#71  
Bromoform  
Concen: 149.839 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC150

Tot Ion:173 Resp: 975045  
Ion Ratio Lower Upper  
173 100  
175 48.8 24.1 72.2  
254 0.2 0.2 0.2

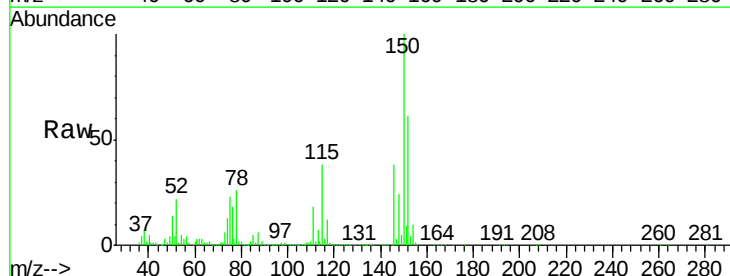


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

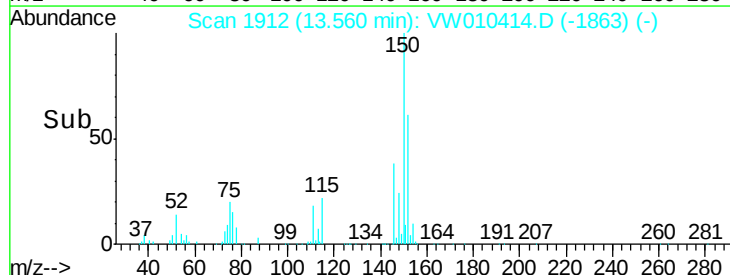
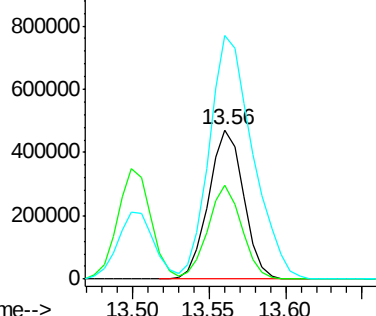


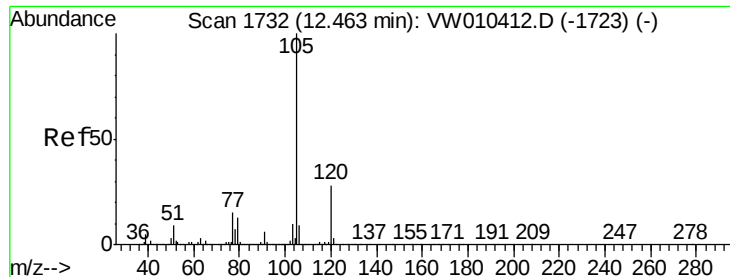
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW010414.D  
Acq: 16 May 2019 20:55

Tgt Ion:152 Resp: 748170  
Ion Ratio Lower Upper  
152 100  
115 60.6 30.2 90.6  
150 202.1 0.0 348.0



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: 140.201 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

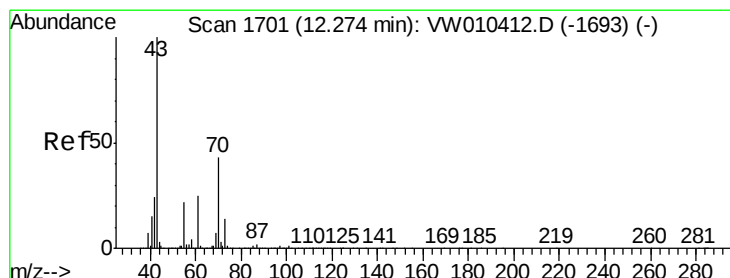
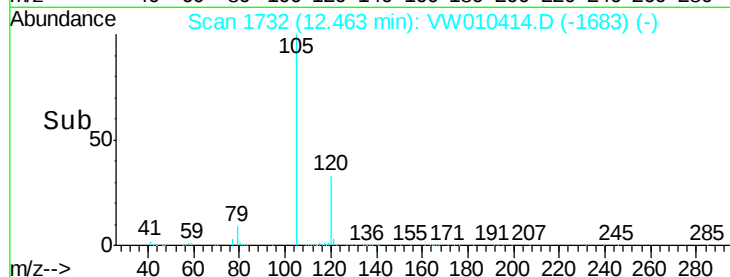
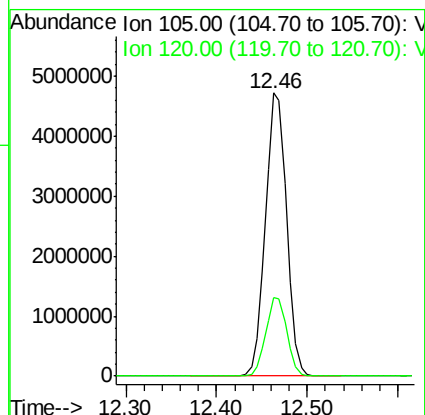
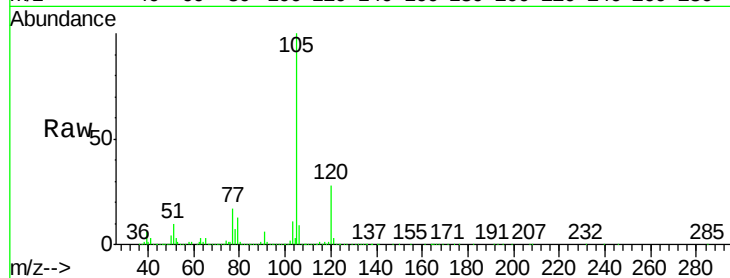
VSTDIC150

Tot Ion:105 Resp: 7603072

Ion Ratio Lower Upper

105 100

120 27.8 13.7 41.1



#74

N-ethyl acetate

Concen: 169.578 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Tgt Ion: 43 Resp: 2429141

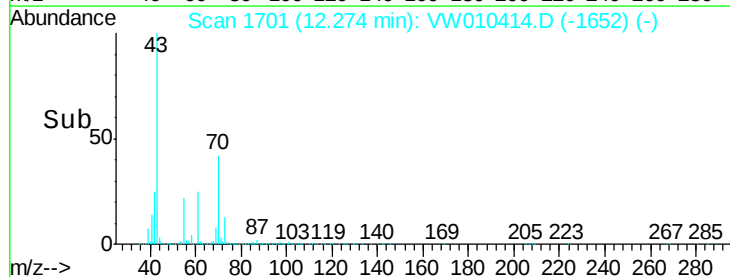
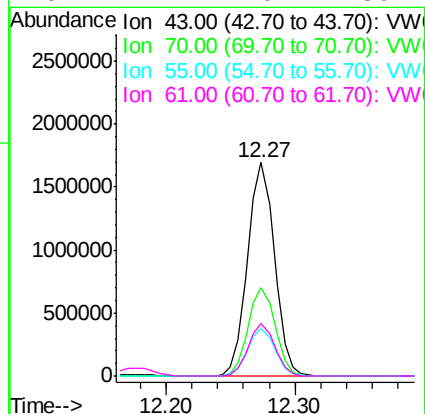
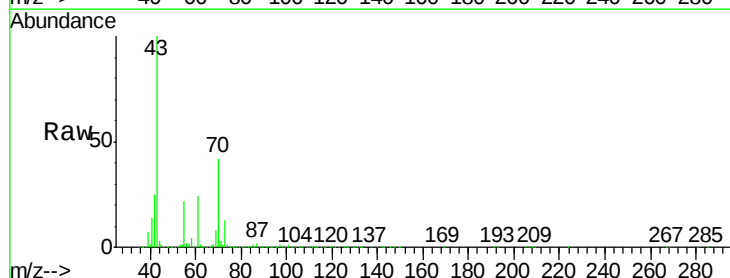
Ion Ratio Lower Upper

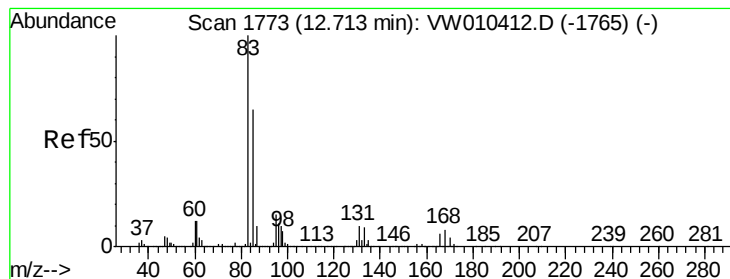
43 100

70 41.8 34.6 51.8

55 22.4 17.8 26.8

61 24.4 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 131.939 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

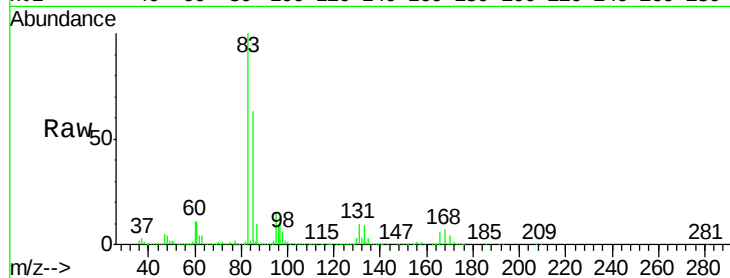
Tot Ion: 83 Resp: 1570688

Ion Ratio Lower Upper

83 100

131 10.7 5.4 16.2

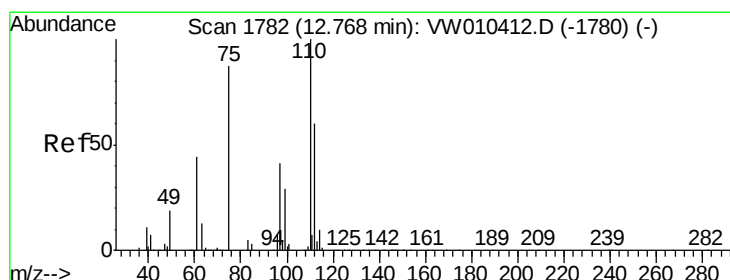
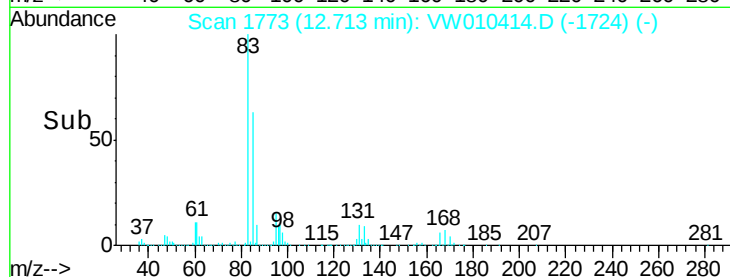
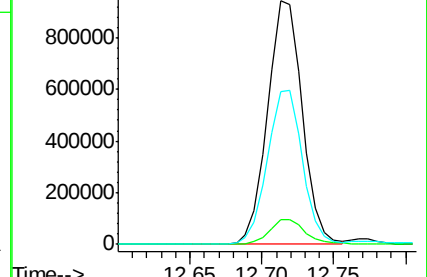
85 64.2 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 128.643 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010414.D

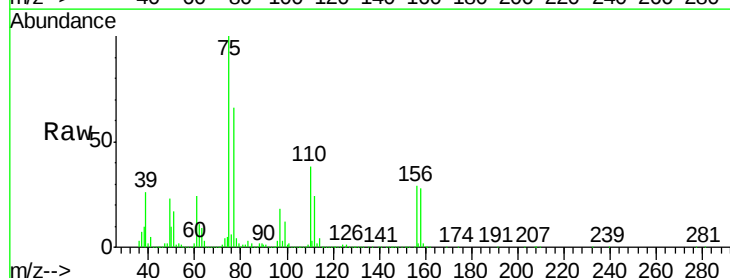
Acq: 16 May 2019 20:55

Tgt Ion: 75 Resp: 1101365

Ion Ratio Lower Upper

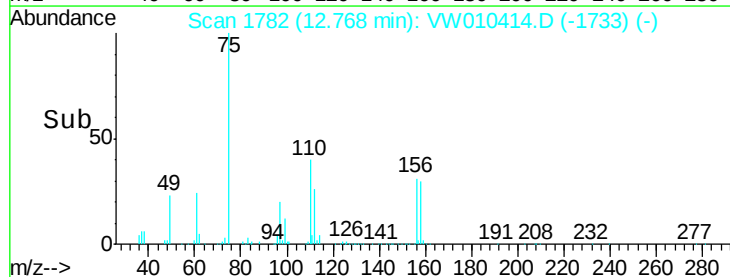
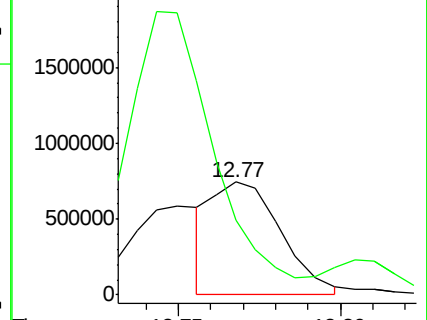
75 100

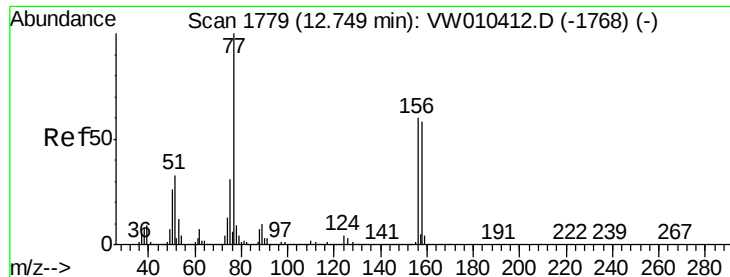
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 143.568 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampled :

VSTDIC150

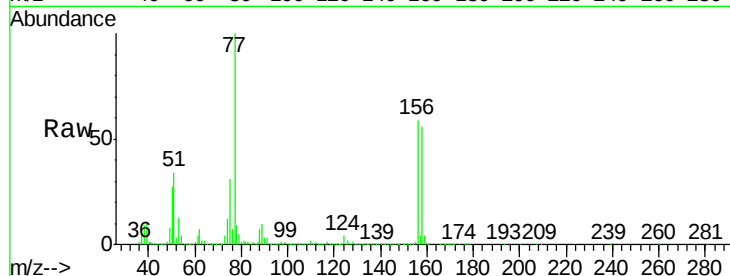
Tot Ion:156 Resp: 1784511

Ion Ratio Lower Upper

156 100

77 195.9 95.4 286.2

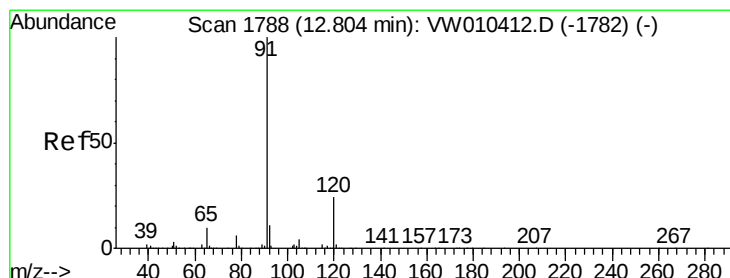
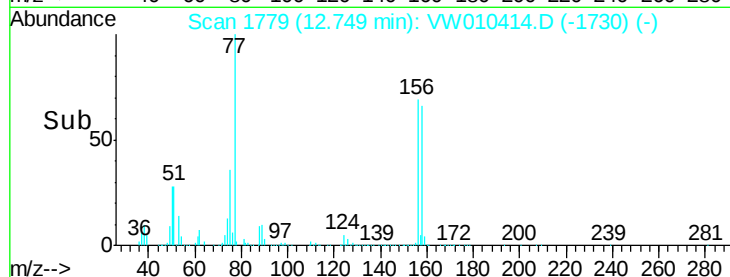
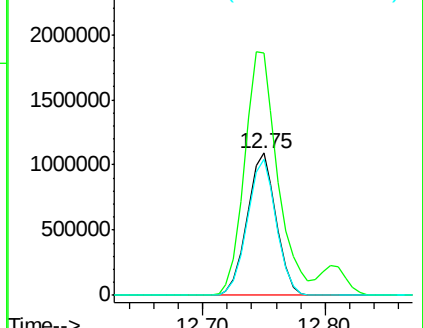
158 96.1 49.0 147.0



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: 131.815 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW010414.D

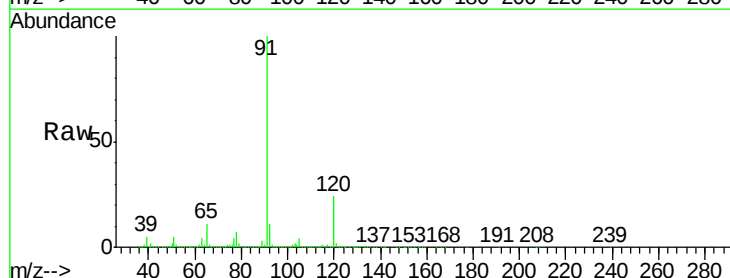
Acq: 16 May 2019 20:55

Tgt Ion: 91 Resp: 8746220

Ion Ratio Lower Upper

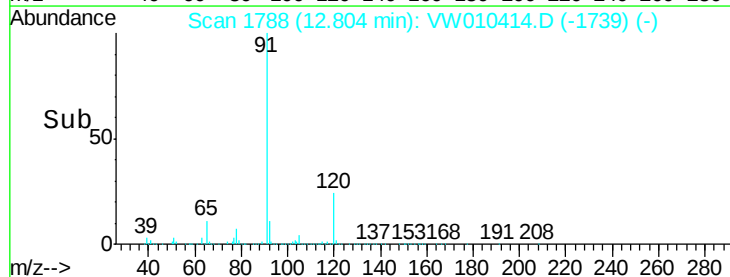
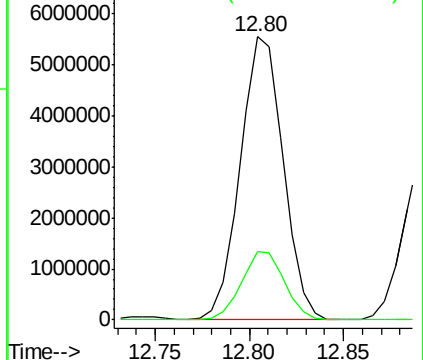
91 100

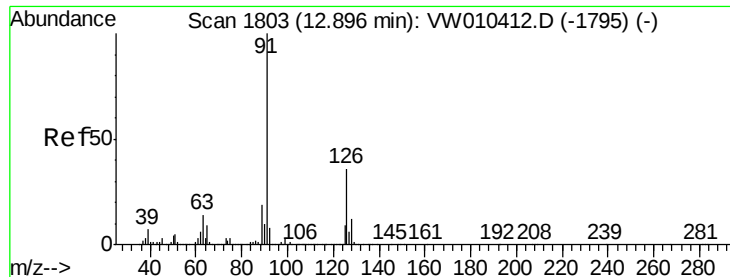
120 24.1 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 137.232 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

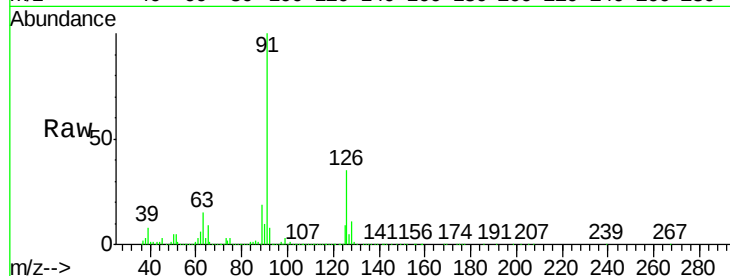
VSTDIC150

Tot Ion: 91 Resp: 5240832

Ion Ratio Lower Upper

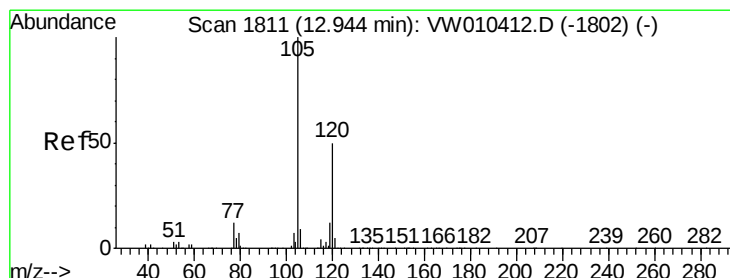
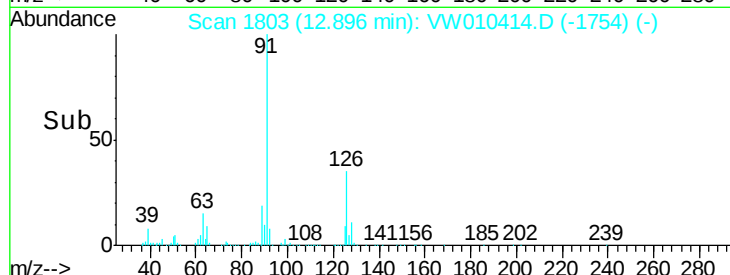
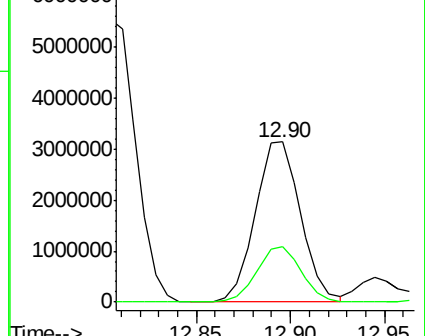
91 100

126 34.0 17.3 51.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 140.595 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010414.D

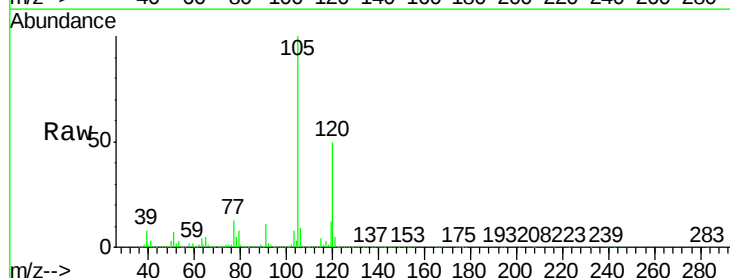
Acq: 16 May 2019 20:55

Tgt Ion: 105 Resp: 6446824

Ion Ratio Lower Upper

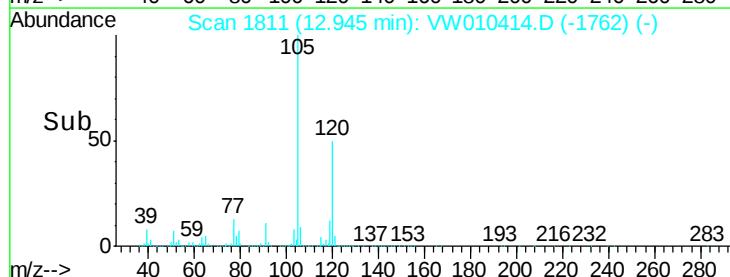
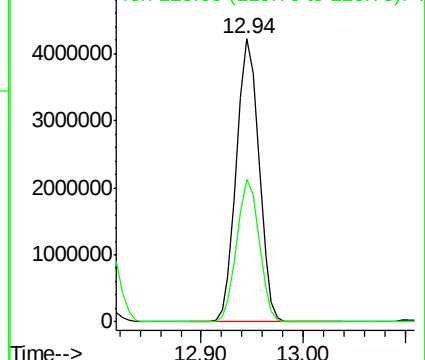
105 100

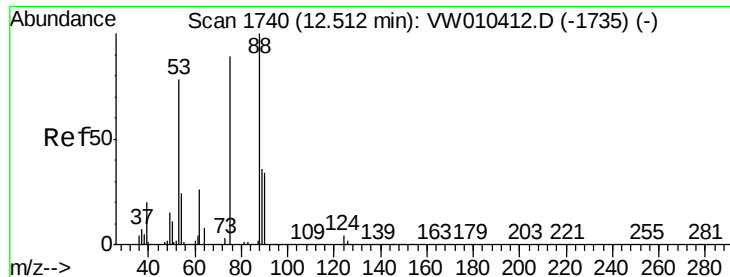
120 50.1 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 153.204 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

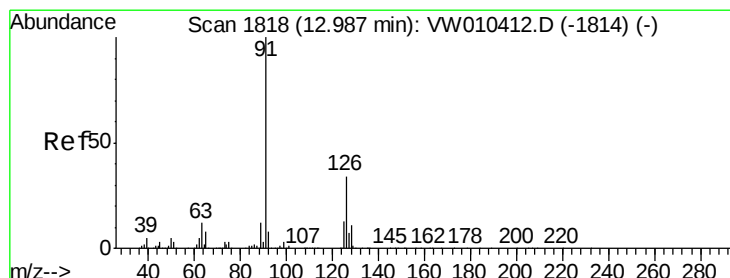
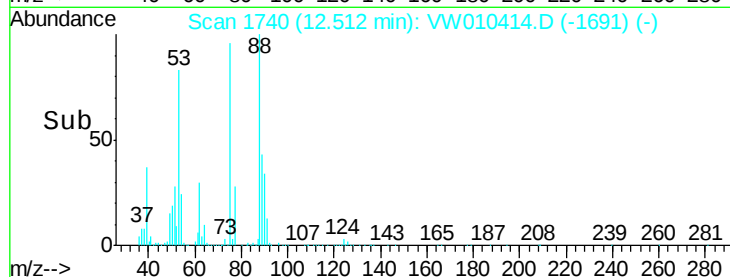
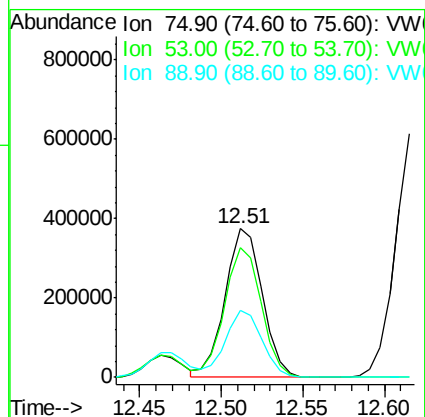
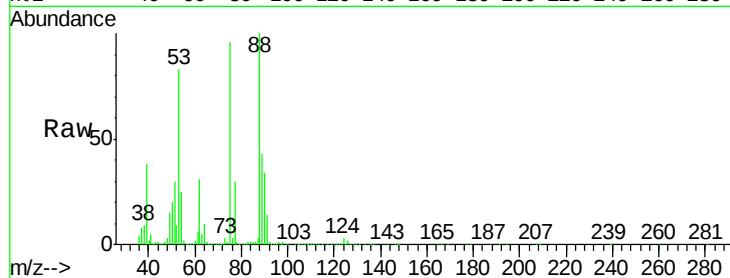
Tot Ion: 75 Resp: 593632

Ion Ratio Lower Upper

75 100

53 87.1 71.0 106.6

89 44.5 37.4 56.2



#82

4-Chlorotoluene

Concen: 139.169 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VW010414.D

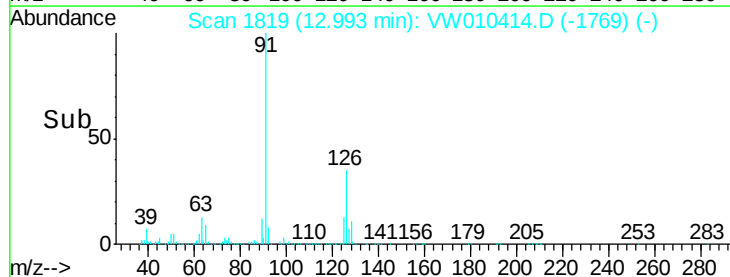
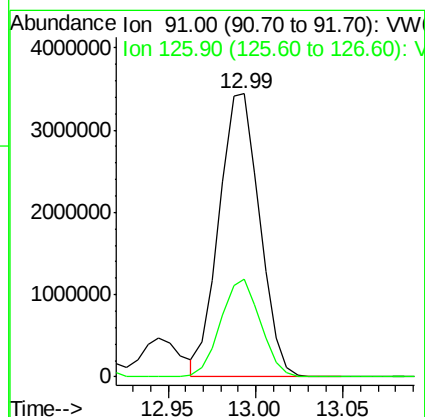
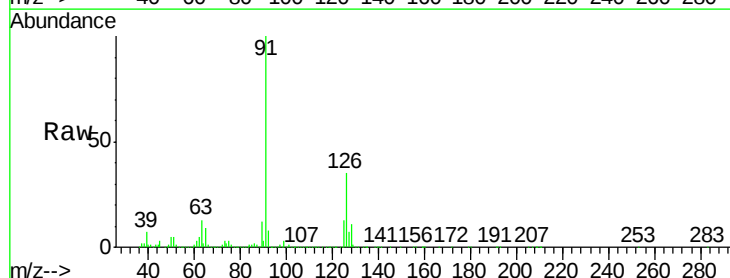
Acq: 16 May 2019 20:55

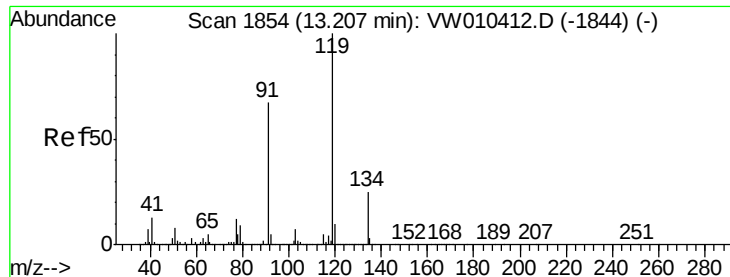
Tgt Ion: 91 Resp: 5563311

Ion Ratio Lower Upper

91 100

126 33.9 17.2 51.6





#83

tert-Butylbenzene

Concen: 140.856 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

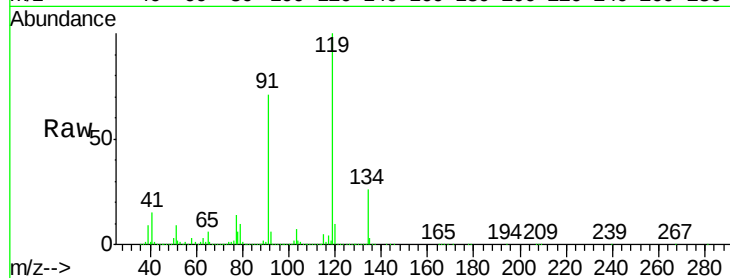
Tot Ion:119 Resp: 5407169

Ion Ratio Lower Upper

119 100

91 69.1 33.8 101.4

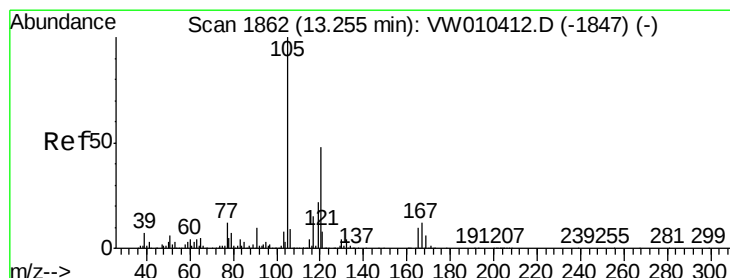
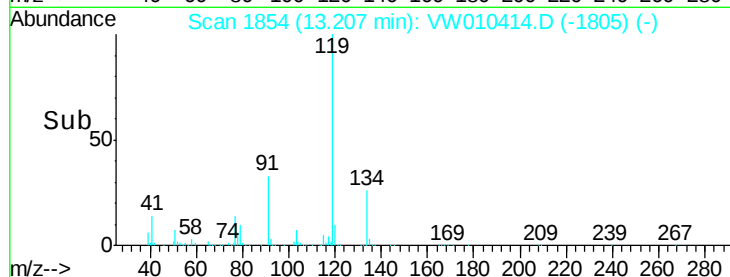
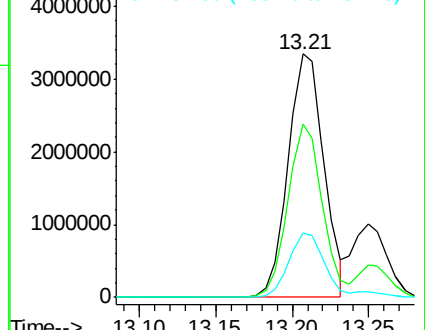
134 27.9 13.9 41.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 141.669 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW010414.D

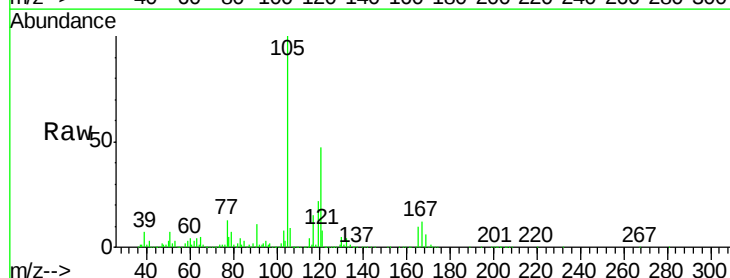
Acq: 16 May 2019 20:55

Tgt Ion:105 Resp: 6468253

Ion Ratio Lower Upper

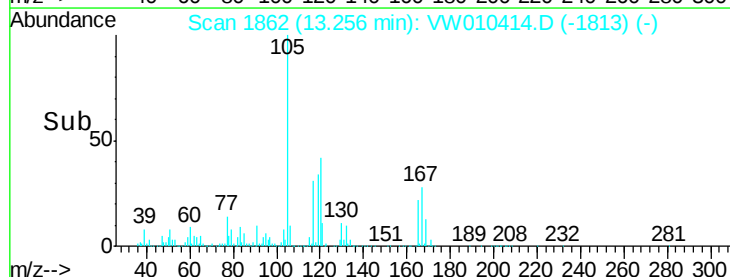
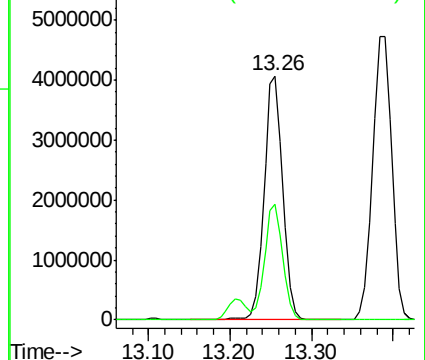
105 100

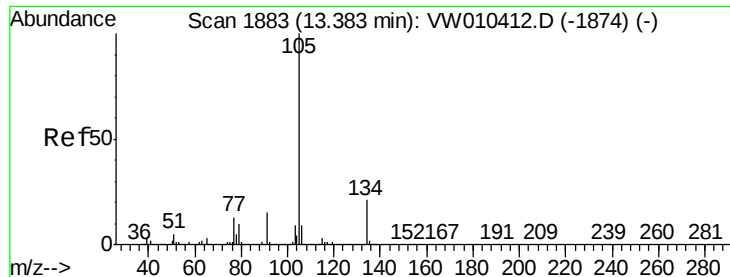
120 46.3 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

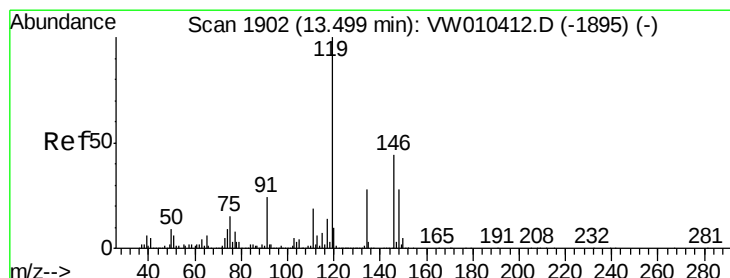
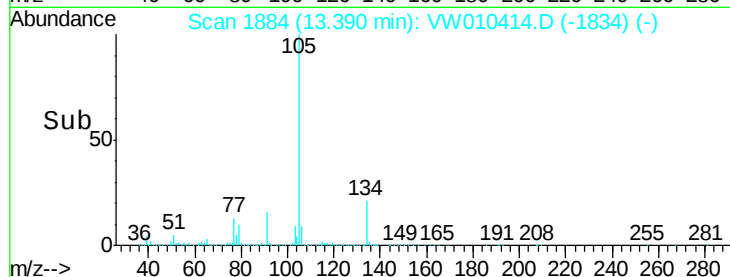
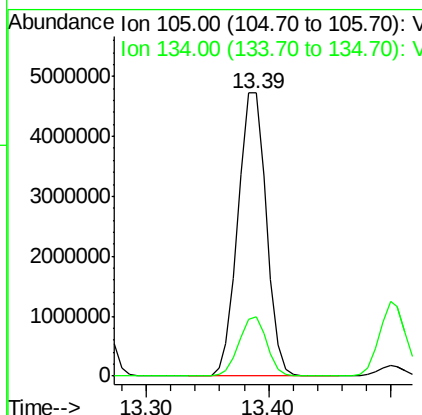
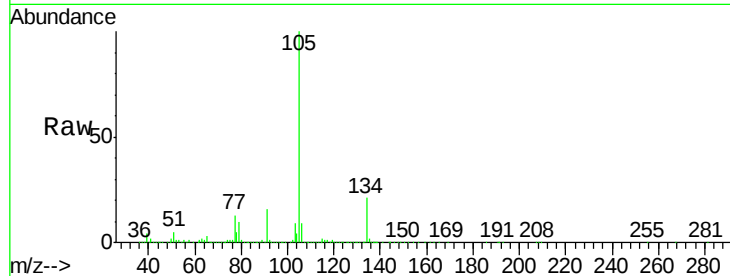




#85  
 sec-Butylbenzene  
 Concen: 135.037 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. 0.01 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

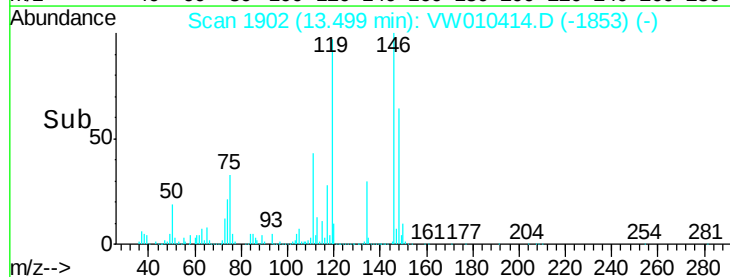
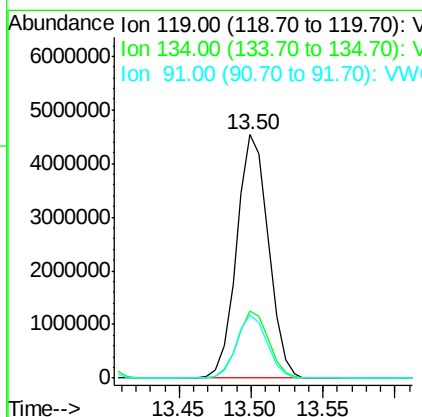
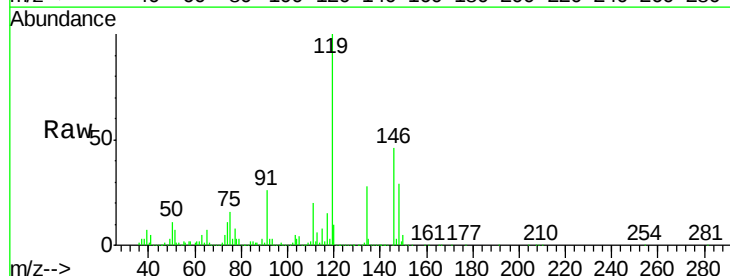
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTDIC150

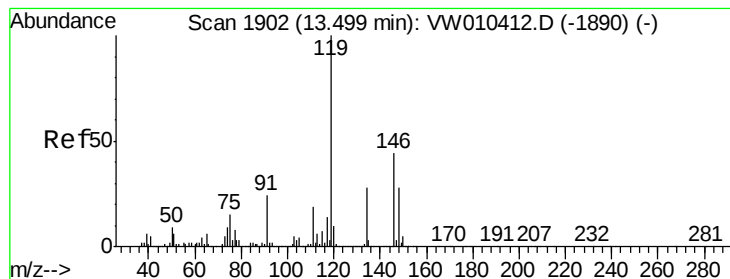
Tot Ion:105 Resp: 7584396  
 Ion Ratio Lower Upper  
 105 100  
 134 20.6 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 138.356 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Tgt Ion:119 Resp: 6914034  
 Ion Ratio Lower Upper  
 119 100  
 134 27.2 13.6 40.8  
 91 25.1 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 138.268 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampled :

VSTDIC150

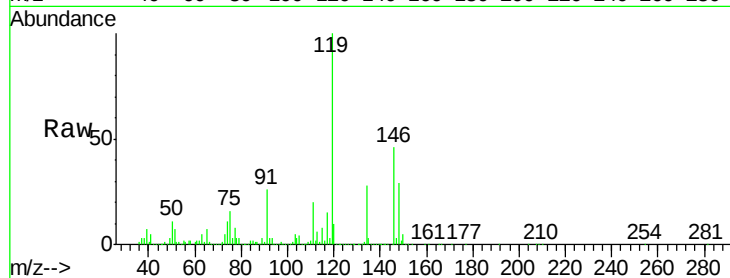
Tot Ion:146 Resp: 3401002

Ion Ratio Lower Upper

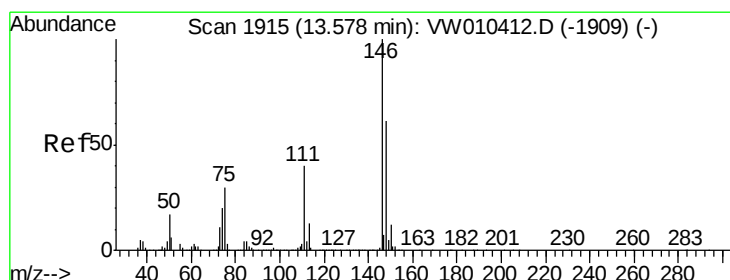
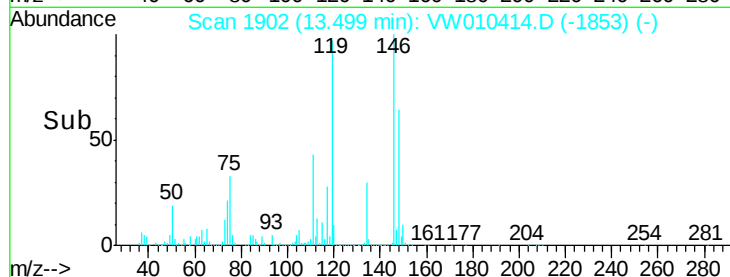
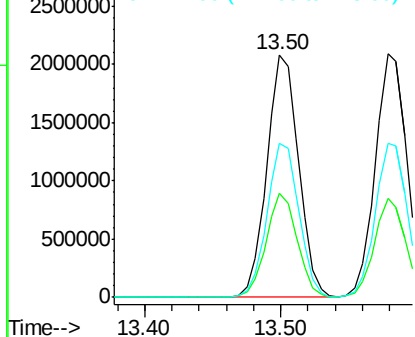
146 100

111 41.9 21.0 63.0

148 63.8 31.7 95.1



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



#88

1,4-Dichlorobenzene

Concen: 137.419 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

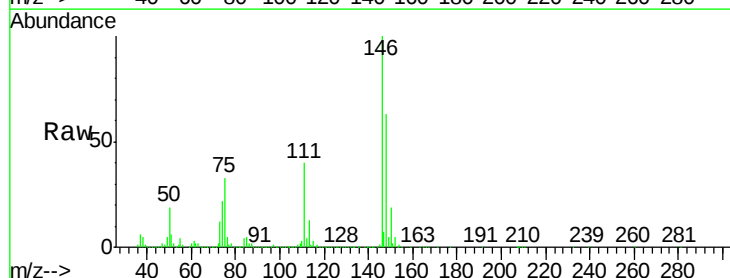
Tgt Ion:146 Resp: 3370357

Ion Ratio Lower Upper

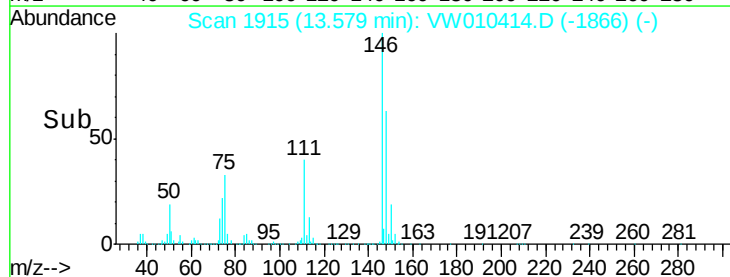
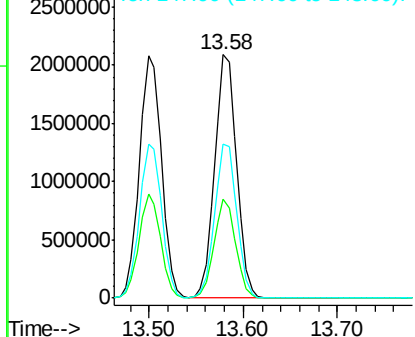
146 100

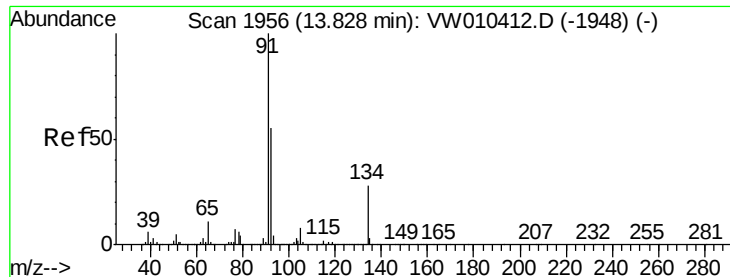
111 39.7 20.2 60.5

148 63.7 31.6 94.7



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





#89

n-Butylbenzene

Concen: 134.221 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC150

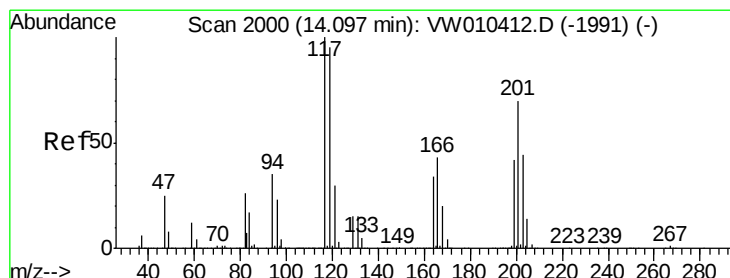
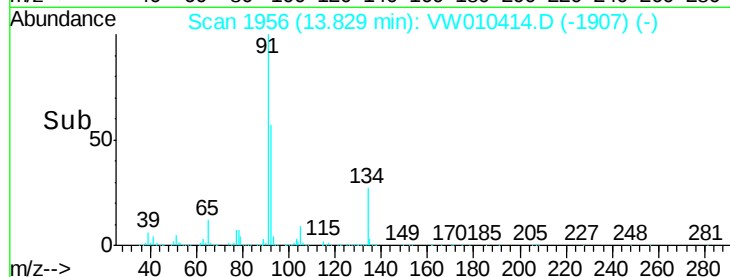
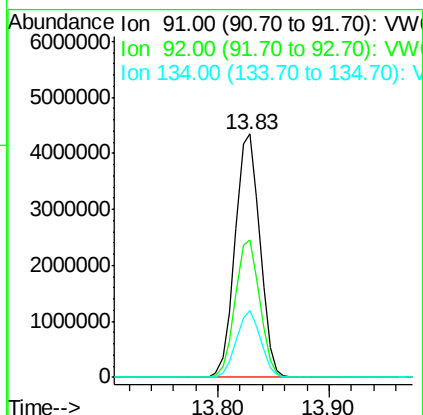
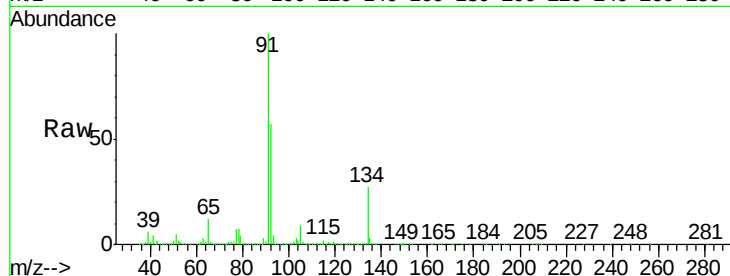
Tot Ion: 91 Resp: 6676444

Ion Ratio Lower Upper

91 100

92 56.0 27.9 83.6

134 26.8 13.8 41.4



#90

Hexachloroethane

Concen: 145.974 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW010414.D

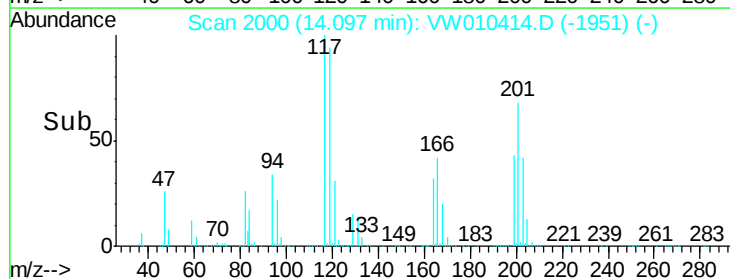
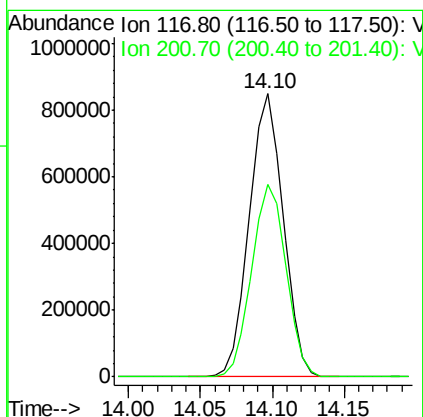
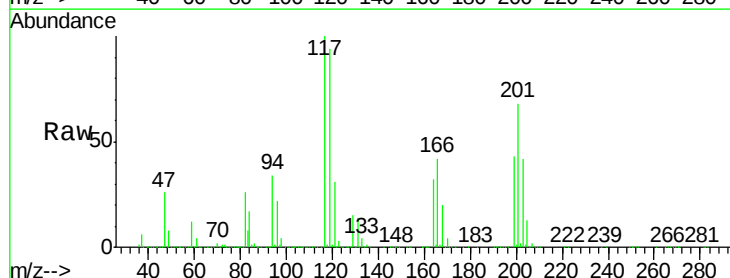
Acq: 16 May 2019 20:55

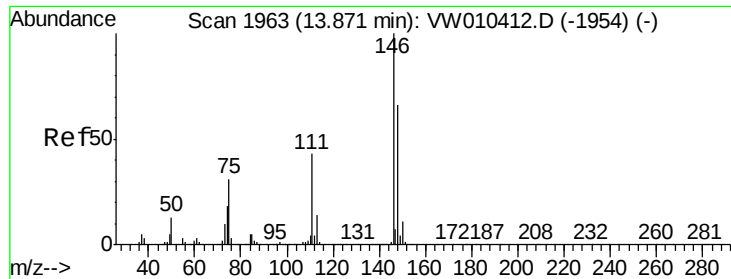
Tgt Ion: 117 Resp: 1384245

Ion Ratio Lower Upper

117 100

201 68.8 34.8 104.5

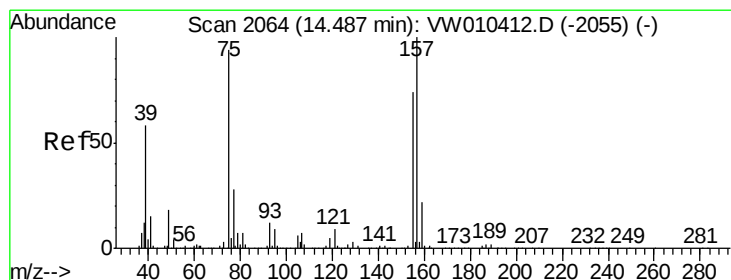
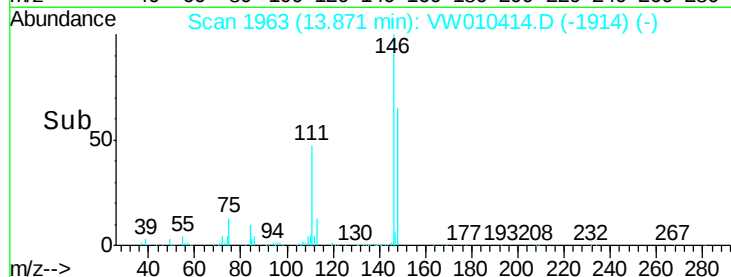
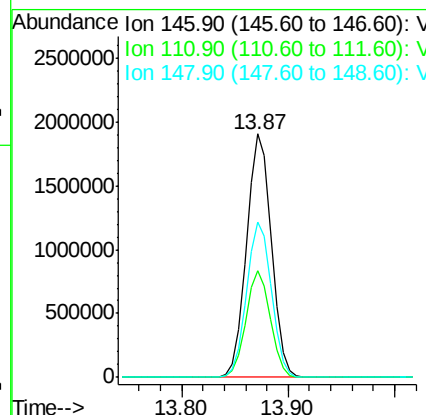
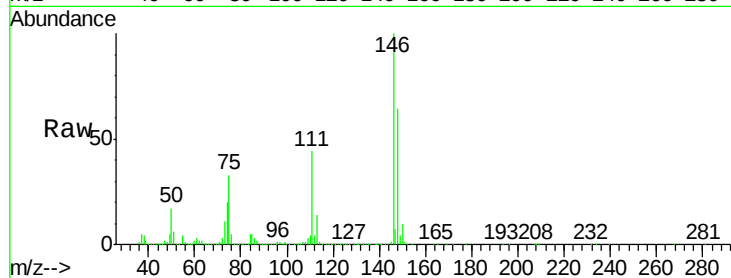




#91  
 1,2-Dichlorobenzene  
 Concen: 142.185 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

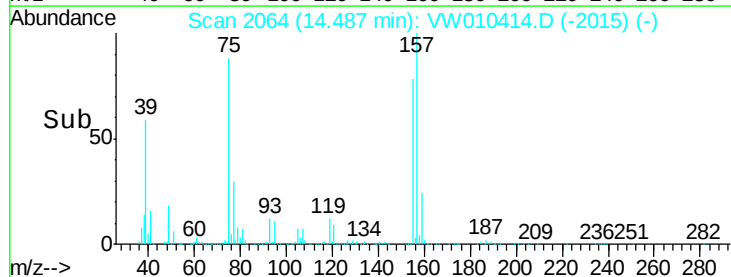
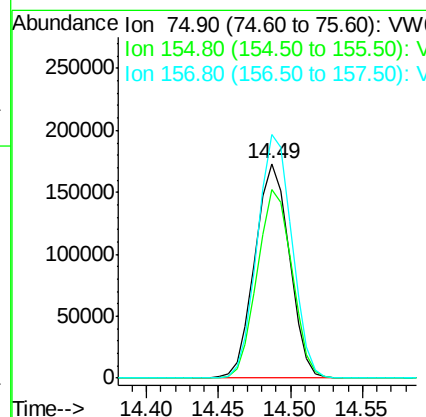
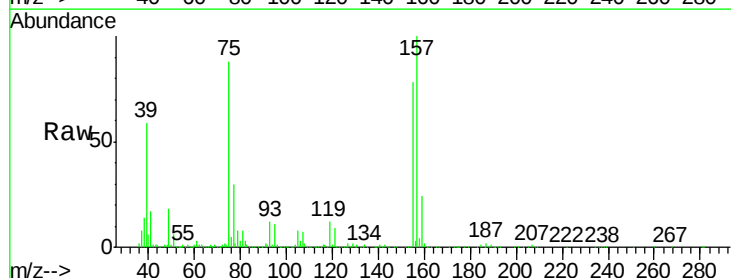
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC150

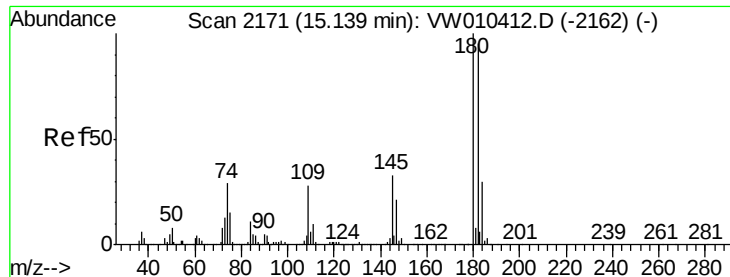
Tot Ion:146 Resp: 3120663  
 Ion Ratio Lower Upper  
 146 100  
 111 43.0 21.4 64.3  
 148 63.8 32.4 97.0



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 132.137 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Tgt Ion: 75 Resp: 286322  
 Ion Ratio Lower Upper  
 75 100  
 155 88.5 43.6 130.9  
 157 114.0 56.9 170.7

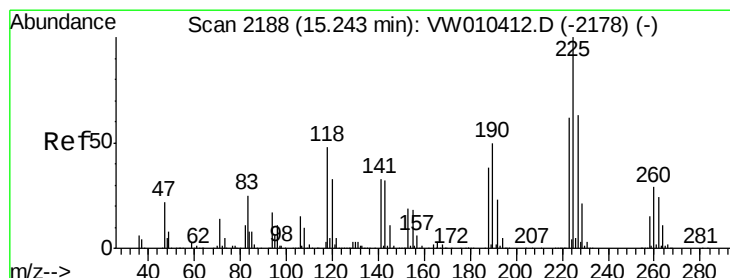
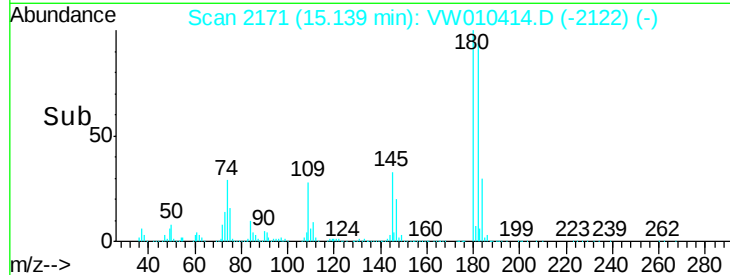
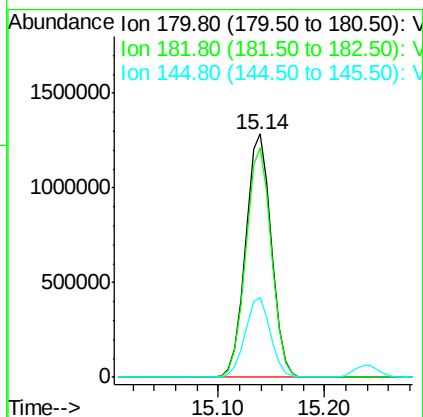
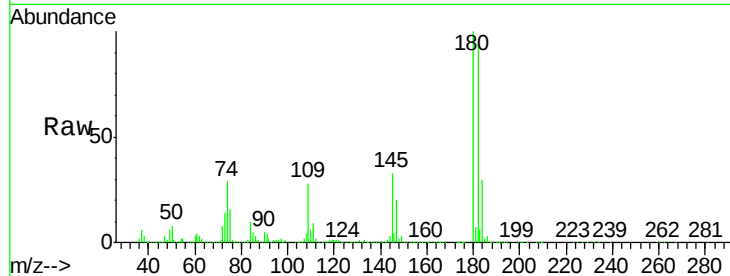




#93  
 1,2,4-Trichlorobenzene  
 Concen: 145.766 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

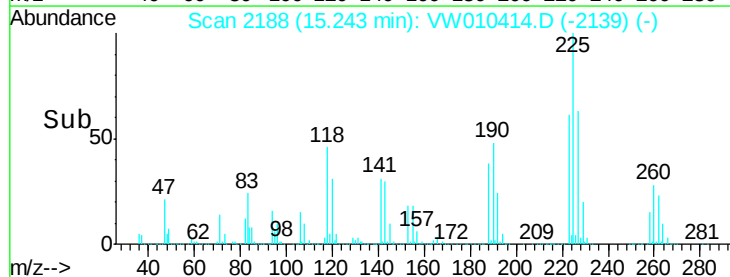
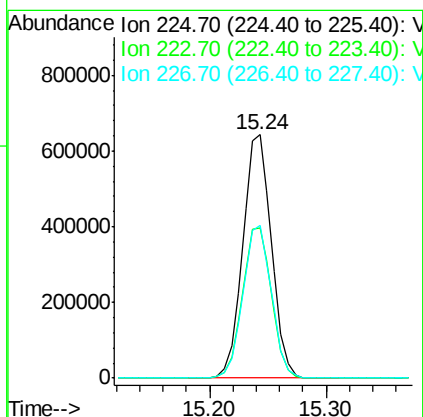
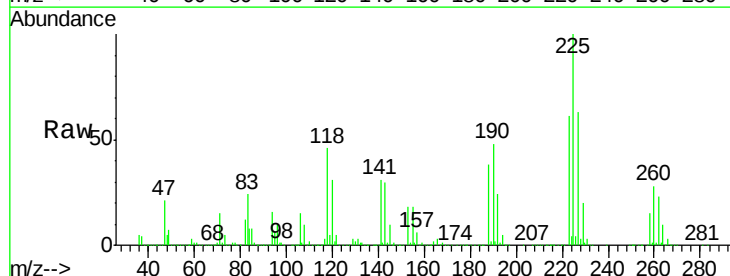
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC150

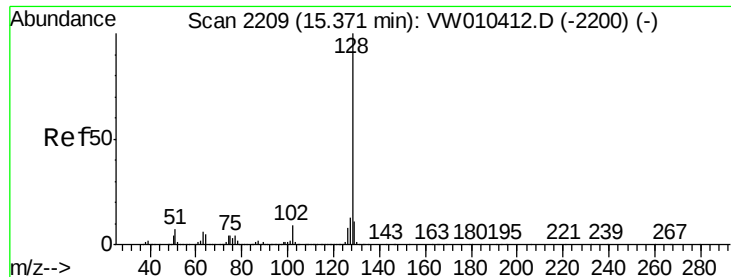
Tot Ion:180 Resp: 2173925  
 Ion Ratio Lower Upper  
 180 100  
 182 94.0 48.2 144.6  
 145 32.6 16.8 50.3



#94  
 Hexachlorobutadiene  
 Concen: 118.406 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. 0.00 min  
 Lab File: VW010414.D  
 Acq: 16 May 2019 20:55

Tgt Ion:225 Resp: 1096288  
 Ion Ratio Lower Upper  
 225 100  
 223 63.0 31.8 95.3  
 227 62.6 31.6 95.0





#95

Naphthalene

Concen: 160.700 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Instrument :

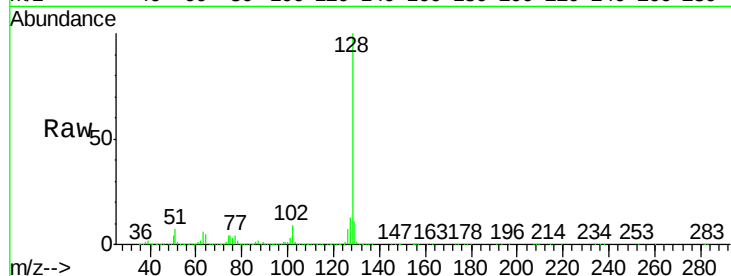
MSVOA\_W

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 4989485

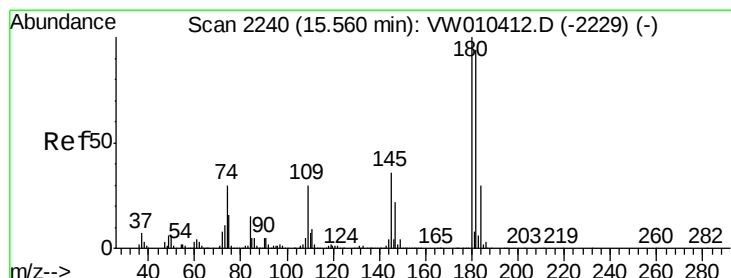
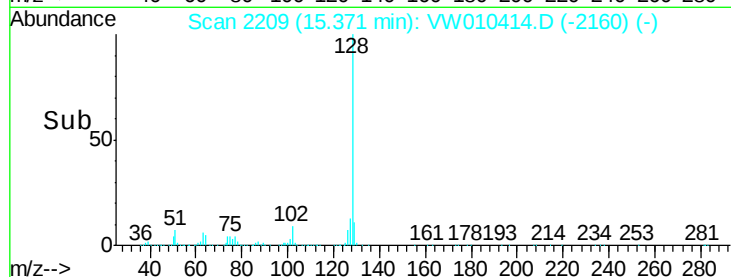
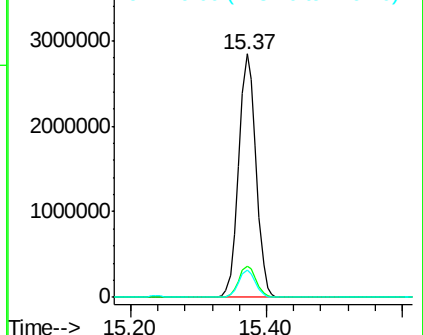
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.9  | 10.2  | 15.4  |
| 129 | 11.0  | 8.8   | 13.2  |



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 144.952 ug/l

RT: 15.56 min Scan# 2240

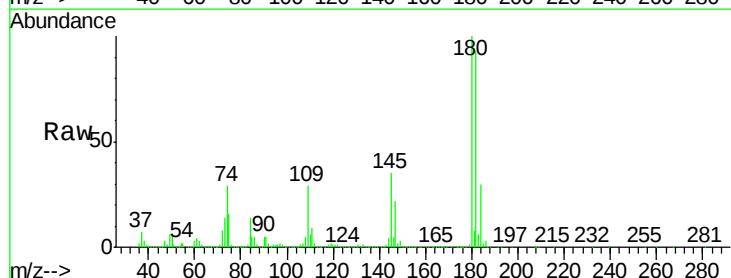
Delta R.T. 0.00 min

Lab File: VW010414.D

Acq: 16 May 2019 20:55

Tgt Ion:180 Resp: 1958601

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.2  | 47.3  | 141.9 |
| 145 | 34.7  | 17.6  | 52.8  |



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

