

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062718\  
 Data File : VW003605.D  
 Acq On : 27 Jun 2018 11:39  
 Operator : SY/AP  
 Sample : VW0627SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 27 14:04:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 216403   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 331013   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 310153   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 165073   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 117433   | 50.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.20% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 104831   | 50.97 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.94% |      |
| 50) Toluene-d8              | 10.33  | 98  | 424433   | 52.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.08% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 150794   | 52.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.50% |      |

|                               |      |     |        |        |        |     |
|-------------------------------|------|-----|--------|--------|--------|-----|
| Target Compounds              |      |     |        |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 17083  | 26.11  | ug/l   | 88  |
| 3) Chloromethane              | 2.21 | 50  | 33695  | 20.38  | ug/l   | 99  |
| 4) Vinyl Chloride             | 2.36 | 62  | 48699  | 20.21  | ug/l   | 99  |
| 5) Bromomethane               | 2.78 | 94  | 29243  | 18.26  | ug/l   | 93  |
| 6) Chloroethane               | 2.92 | 64  | 32664  | 19.47  | ug/l   | 98  |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 31118  | 21.56  | ug/l   | 92  |
| 8) Diethyl Ether              | 3.68 | 74  | 21876  | 20.63  | ug/l   | 93  |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 43300  | 21.60  | ug/l   | 98  |
| 10) Methyl Iodide             | 4.26 | 142 | 62340  | 20.56  | ug/l   | 99  |
| 11) Tert butyl alcohol        | 5.24 | 59  | 6294   | 50.07  | ug/l # | 84  |
| 12) 1,1-Dichloroethene        | 4.02 | 96  | 40209  | 20.53  | ug/l   | 98  |
| 13) Acrolein                  | 3.89 | 56  | 12049  | 67.04  | ug/l   | 97  |
| 14) Allyl chloride            | 4.66 | 41  | 69789  | 20.57  | ug/l   | 100 |
| 15) Acrylonitrile             | 5.38 | 53  | 42333  | 97.02  | ug/l   | 97  |
| 16) Acetone                   | 4.15 | 43  | 50617  | 102.96 | ug/l   | 97  |
| 17) Carbon Disulfide          | 4.37 | 76  | 119816 | 20.69  | ug/l   | 99  |
| 18) Methyl Acetate            | 4.68 | 43  | 21742  | 18.64  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 71519  | 19.49  | ug/l   | 97  |
| 20) Methylene Chloride        | 4.90 | 84  | 53059  | 23.46  | ug/l   | 97  |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 44313  | 20.78  | ug/l   | 95  |
| 22) Diisopropyl ether         | 6.31 | 45  | 145038 | 21.24  | ug/l   | 94  |
| 23) Vinyl Acetate             | 6.26 | 43  | 389355 | 98.93  | ug/l   | 100 |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 86949  | 21.45  | ug/l   | 99  |
| 25) 2-Butanone                | 7.18 | 43  | 62112  | 101.61 | ug/l   | 92  |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 56466  | 20.87  | ug/l   | 98  |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 47800  | 20.41  | ug/l   | 96  |
| 28) Bromochloromethane        | 7.51 | 49  | 32081  | 19.02  | ug/l   | 95  |
| 29) Tetrahydrofuran           | 7.54 | 42  | 34357  | 91.96  | ug/l   | 99  |
| 30) Chloroform                | 7.68 | 83  | 89798  | 21.74  | ug/l   | 99  |
| 31) Cyclohexane               | 7.95 | 56  | 77540  | 20.47  | ug/l   | 97  |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 71937  | 21.10  | ug/l   | 99  |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 69543  | 21.75  | ug/l   | 99  |
| 37) Ethyl Acetate             | 7.26 | 43  | 26170  | 19.76  | ug/l   | 99  |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 67037  | 21.38  | ug/l   | 98  |

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 Sample : VW0627SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 27 14:04:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 75856    | 20.51  | ug/l   | 100      |
| 40) Benzene                    | 8.32  | 78   | 194351   | 22.06  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 15535    | 19.12  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 59488    | 21.55  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 49566    | 18.85  | ug/l   | 97       |
| 44) Trichloroethene            | 9.09  | 130  | 50885    | 21.79  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 48994    | 21.84  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 23892    | 20.80  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 64348    | 21.86  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 23835    | 19.29  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.50  | 88   | 6132     | 353.57 | ug/l # | 73       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 129154   | 96.39  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 123743   | 21.90  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 61246    | 20.36  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 71180    | 20.79  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 34067    | 21.05  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 37549    | 19.10  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 58478    | 20.95  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 85180    | 96.67  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 93827    | 100.24 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 39366    | 20.45  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 31156    | 20.35  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 42655    | 20.56  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 134373   | 20.81  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 47831    | 21.07  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.74 | 91   | 236366   | 20.65  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 186065   | 42.75  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 83156    | 20.62  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 140847   | 20.98  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 22643    | 19.25  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 235451   | 20.51  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 47827    | 18.30  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 38419    | 19.78  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 51677    | 36.62  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 54087    | 20.23  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.81 | 91   | 296305   | 21.08  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 166117   | 20.91  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 205059   | 21.28  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 11289    | 18.41  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 176995   | 21.00  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 168538   | 20.52  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 211695   | 21.35  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 253554   | 20.77  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 227284   | 21.11  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 113820   | 20.72  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 116915   | 21.41  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 222005   | 21.15  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 40477    | 20.78  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 100558   | 20.90  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6109     | 18.69  | ug/l   | 95       |

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Operator : SY/AP  
Sample : VW0627SBS01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

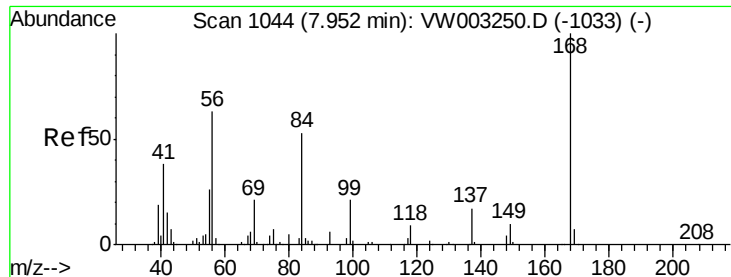
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jun 27 14:04:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 05:18:54 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 68790    | 20.36 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 42119    | 20.73 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 105752   | 18.46 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 58608    | 19.71 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

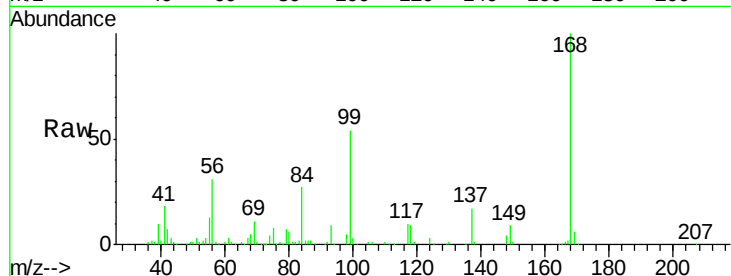
ClientSampleId :

Tot Ion:168 Resp: 216403

Ion Ratio Lower Upper

168 100

99 54.1 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

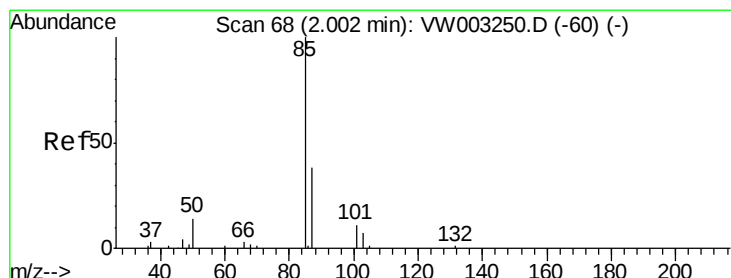
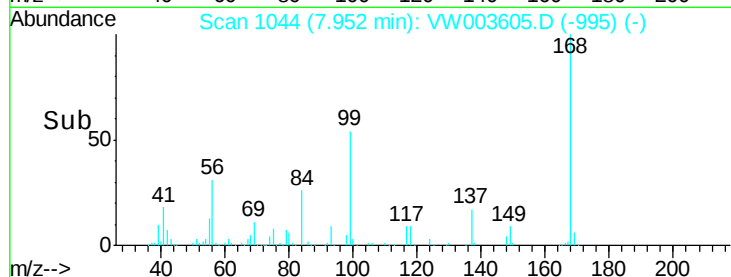
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 26.11 ug/l

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW003605.D

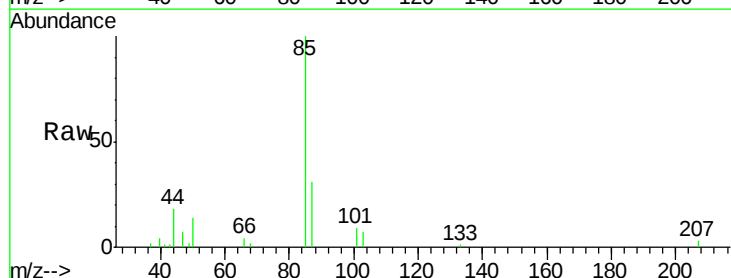
Acq: 27 Jun 2018 11:39

Tgt Ion: 85 Resp: 17083

Ion Ratio Lower Upper

85 100

87 30.5 18.9 56.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

6000

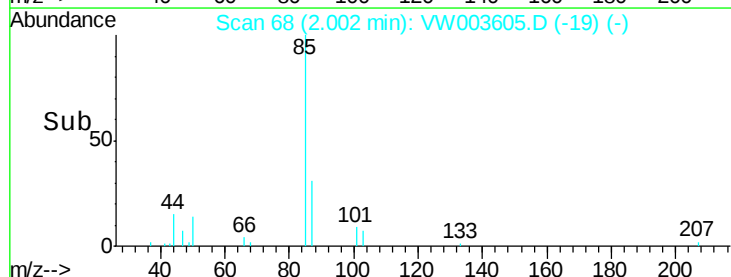
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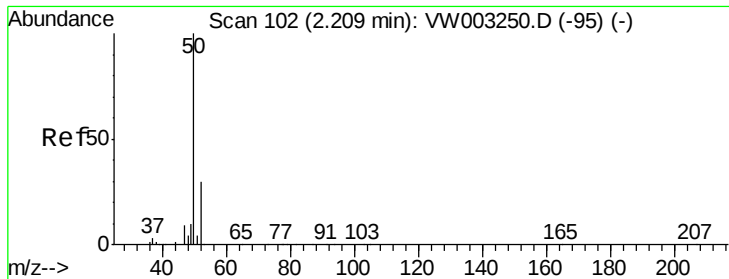
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0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 20.38 ug/l

RT: 2.21 min Scan# 102

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

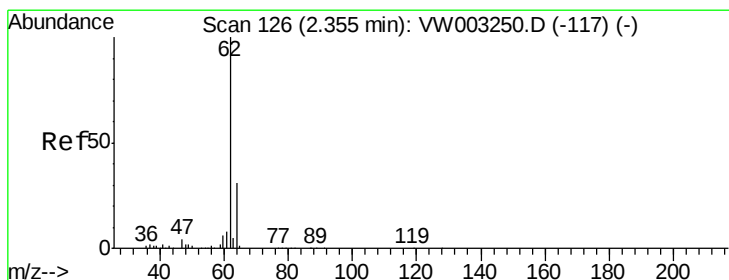
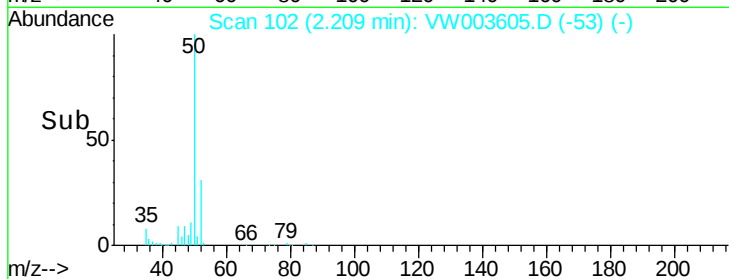
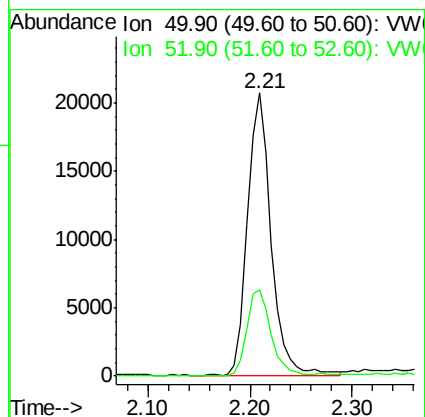
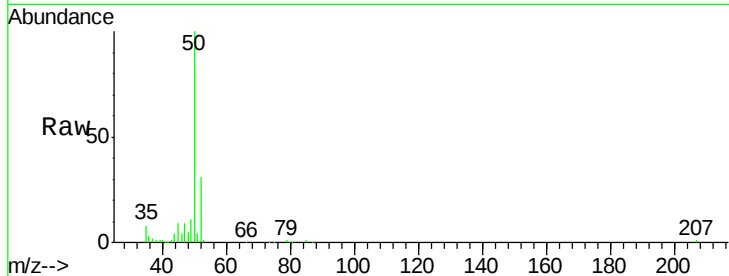
ClientSampleId :

Tot Ion: 50 Resp: 33695

Ion Ratio Lower Upper

50 100

52 30.5 24.2 36.2



#4

Vinyl Chloride

Concen: 20.21 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW003605.D

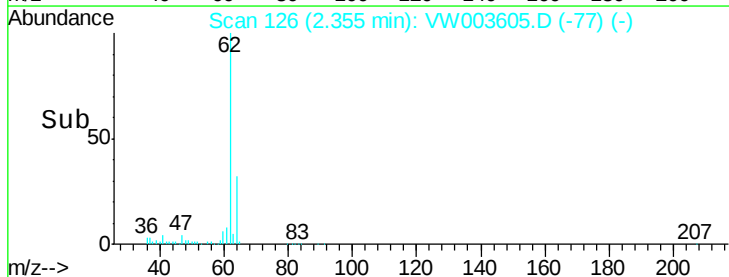
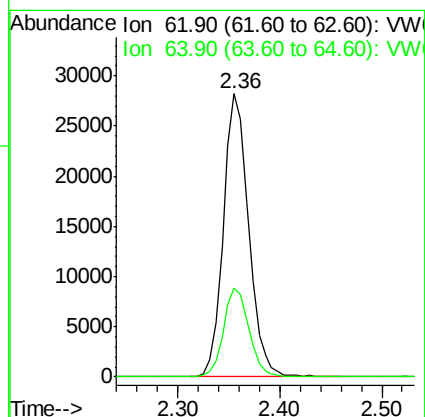
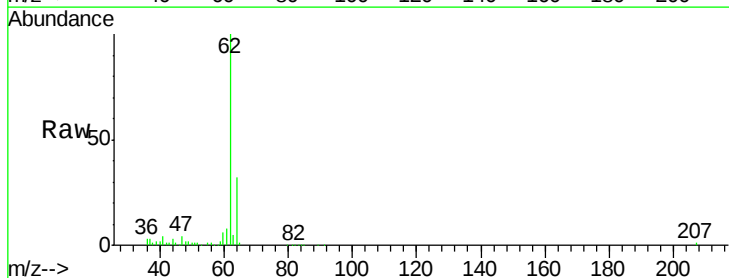
Acq: 27 Jun 2018 11:39

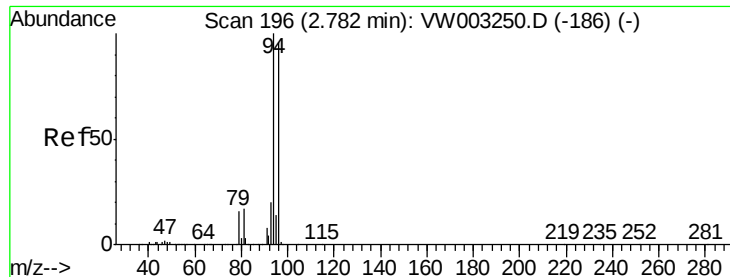
Tgt Ion: 62 Resp: 48699

Ion Ratio Lower Upper

62 100

64 31.6 24.9 37.3





#5

Bromomethane

Concen: 18.26 ug/l

RT: 2.78 min Scan# 195

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

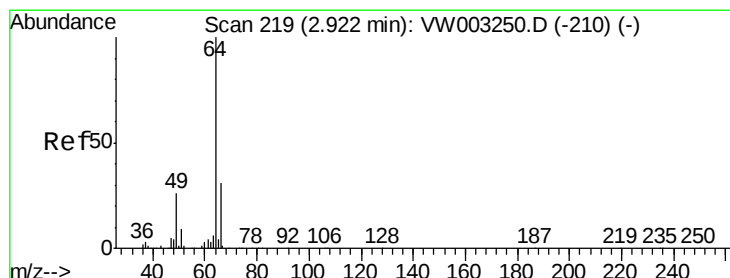
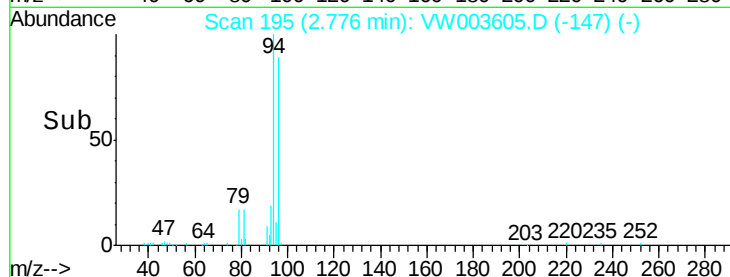
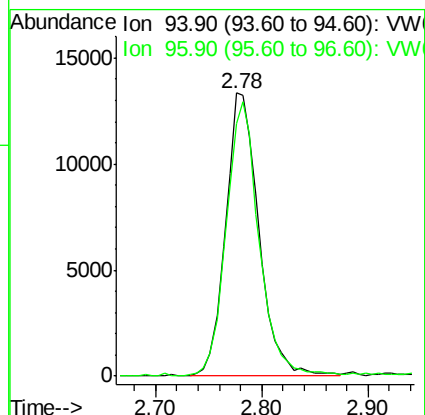
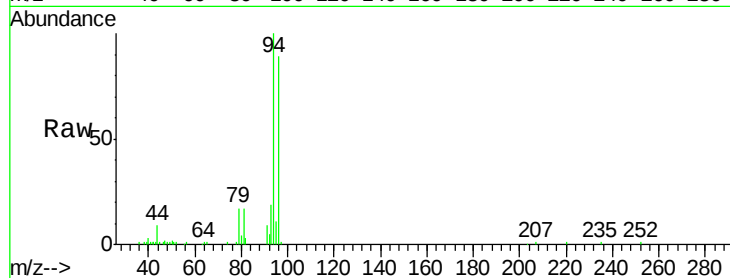
ClientSampled :

Tot Ion: 94 Resp: 29243

Ion Ratio Lower Upper

94 100

96 88.6 76.5 114.7



#6

Chloroethane

Concen: 19.47 ug/l

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW003605.D

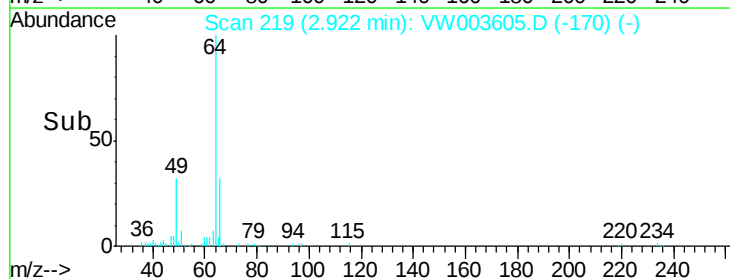
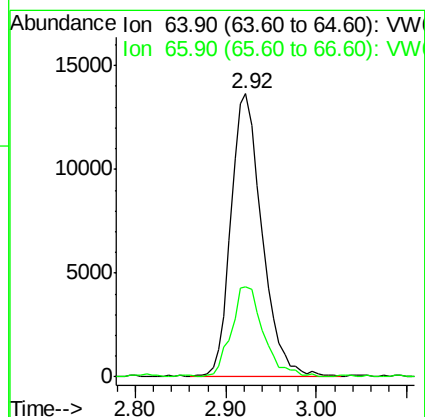
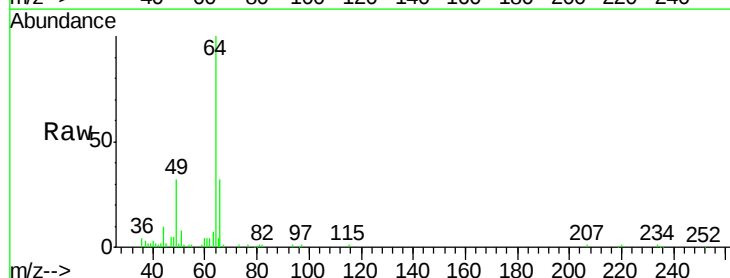
Acq: 27 Jun 2018 11:39

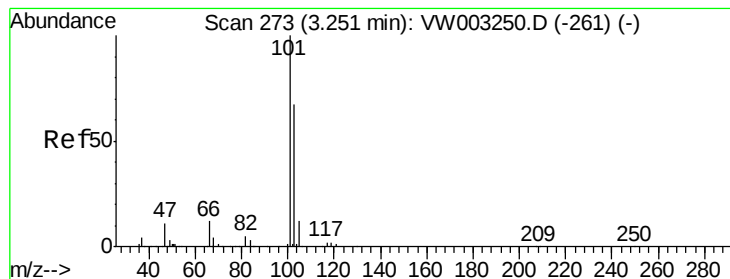
Tgt Ion: 64 Resp: 32664

Ion Ratio Lower Upper

64 100

66 31.4 24.4 36.6



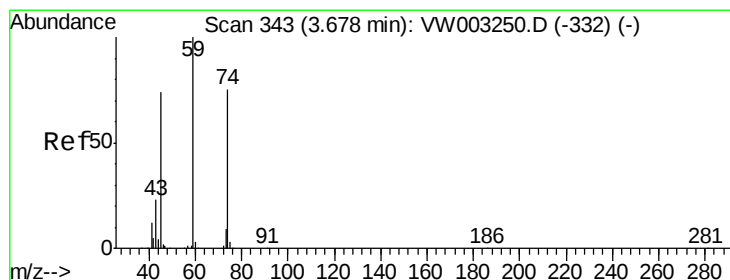
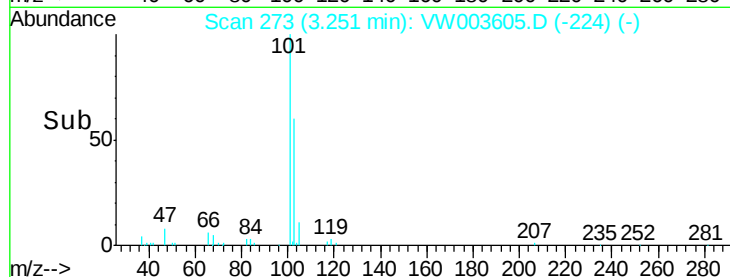
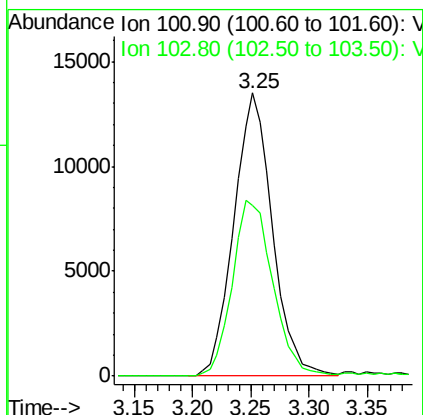
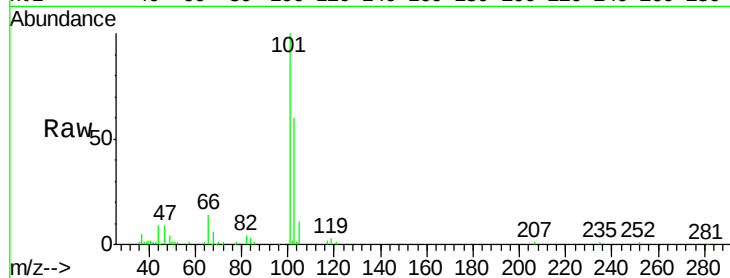


#7

Trichlorofluoromethane  
 Concen: 21.56 ug/l  
 RT: 3.25 min Scan# 273  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Instrument :  
 MSVOA\_W  
 ClientSampled :

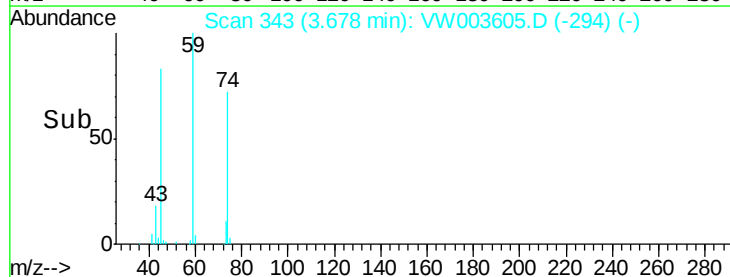
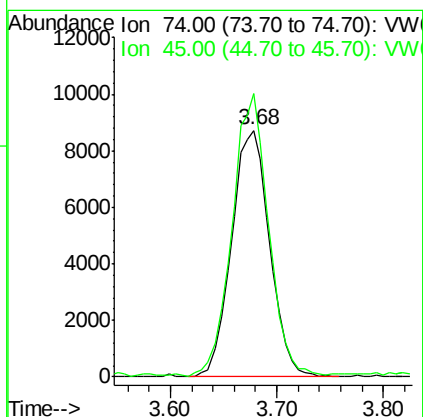
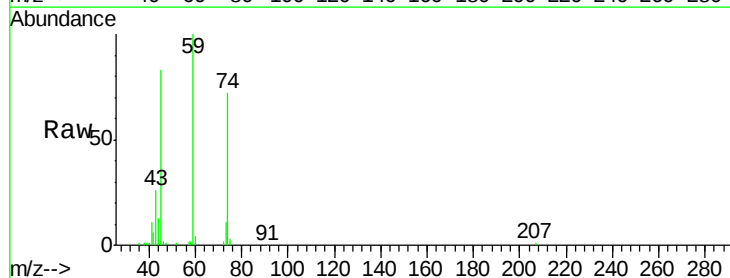
Tot Ion:101 Resp: 31118  
 Ion Ratio Lower Upper  
 101 100  
 103 60.3 53.4 80.0

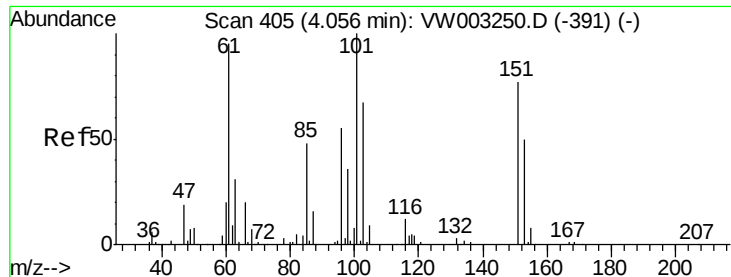


#8

Diethyl Ether  
 Concen: 20.63 ug/l  
 RT: 3.68 min Scan# 343  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 74 Resp: 21876  
 Ion Ratio Lower Upper  
 74 100  
 45 110.1 51.4 154.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.60 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

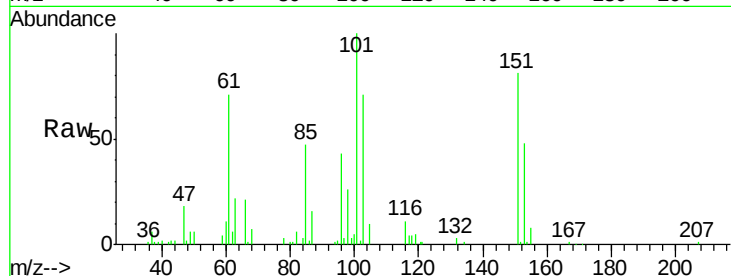
Tot Ion:101 Resp: 43300

Ion Ratio Lower Upper

101 100

85 45.8 37.0 55.6

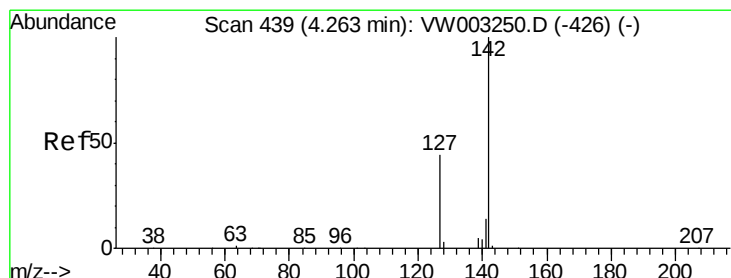
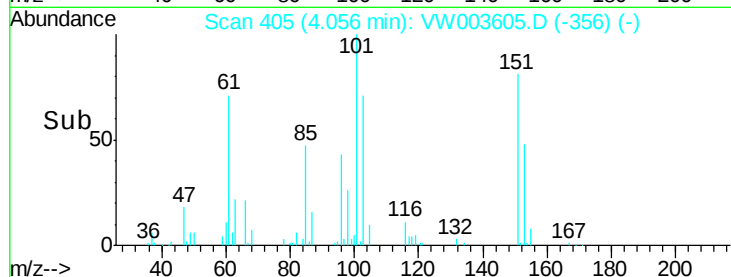
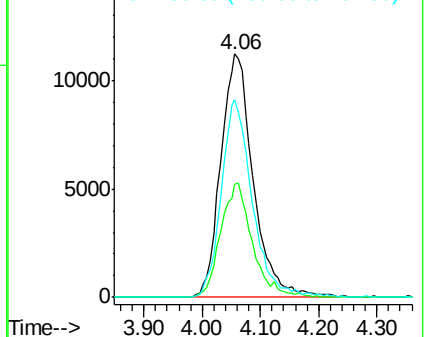
151 76.9 63.3 94.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.56 ug/l

RT: 4.26 min Scan# 438

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

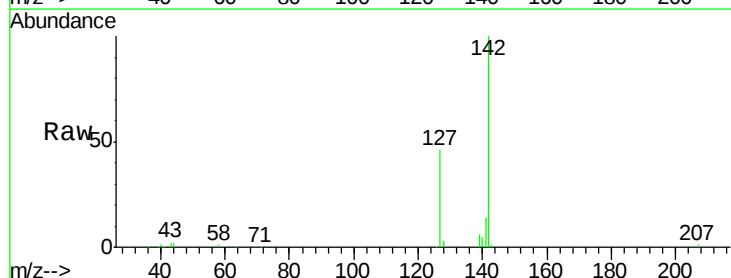
Tgt Ion:142 Resp: 62340

Ion Ratio Lower Upper

142 100

127 46.0 36.5 54.7

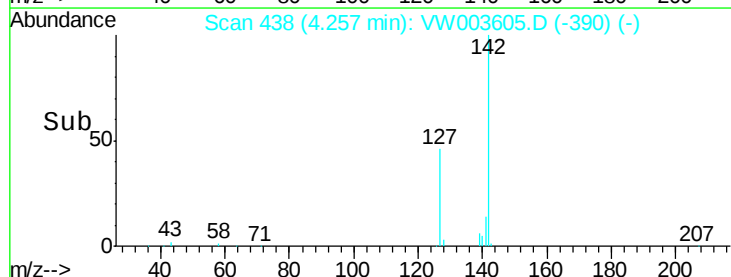
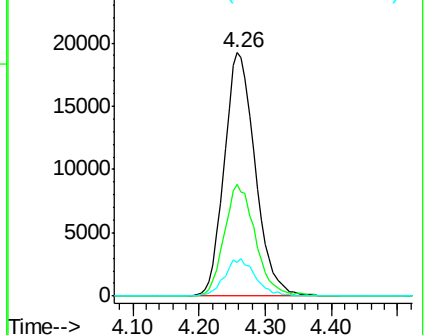
141 15.2 12.1 18.1

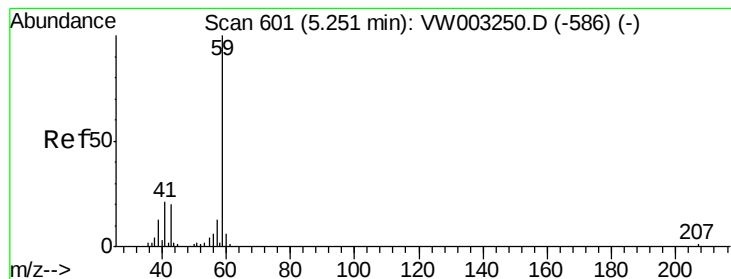


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



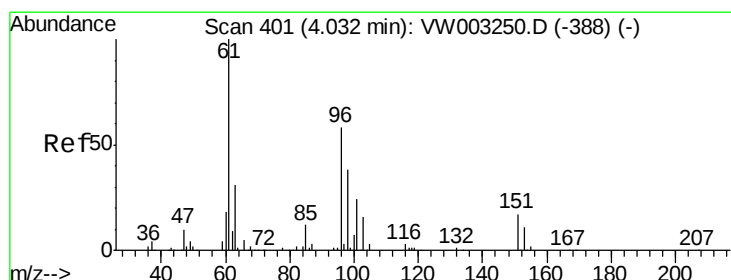
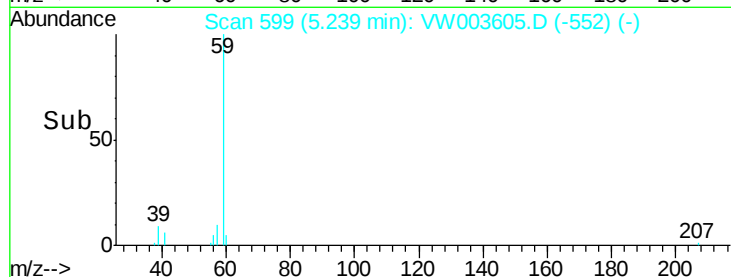
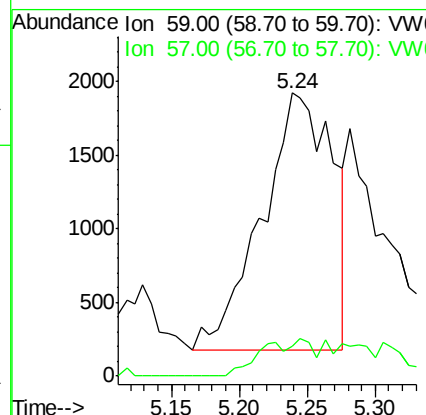
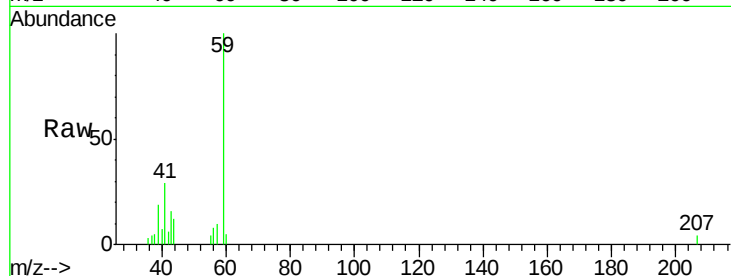


#11

Tert butyl alcohol  
Concen: 50.07 ug/l  
RT: 5.24 min Scan# 599  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampled :

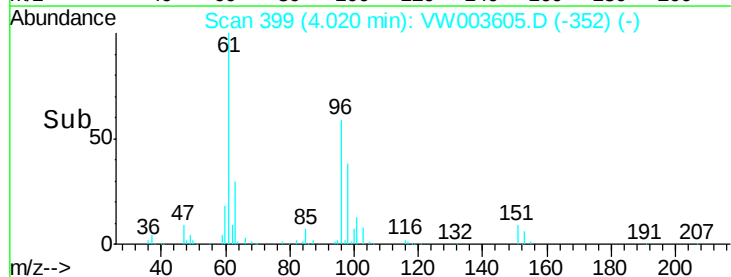
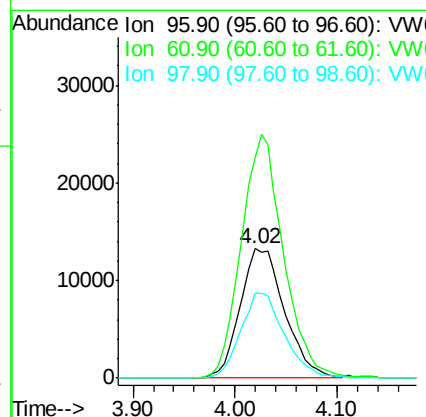
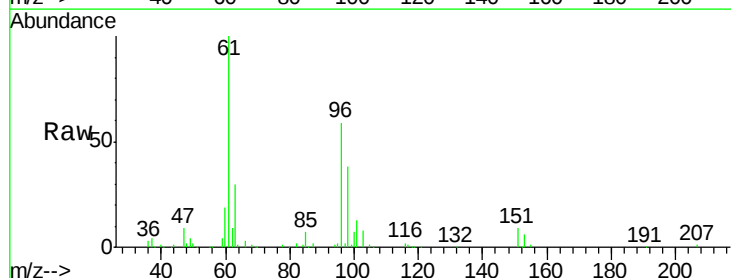
Tot Ion: 59 Resp: 6294  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.2 6.2#

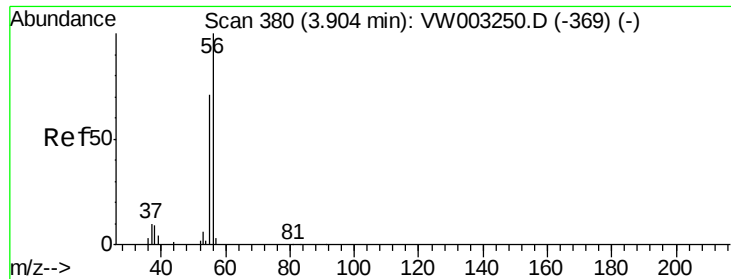


#12

1,1-Dichloroethene  
Concen: 20.53 ug/l  
RT: 4.02 min Scan# 399  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 96 Resp: 40209  
Ion Ratio Lower Upper  
96 100  
61 170.6 139.0 208.4  
98 65.4 53.3 79.9





#13

Acrolein

Concen: 67.04 ug/l

RT: 3.89 min Scan# 378

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

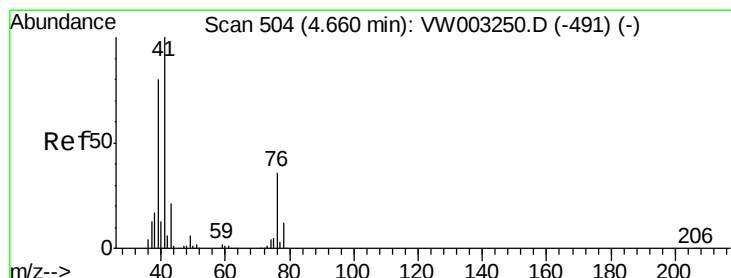
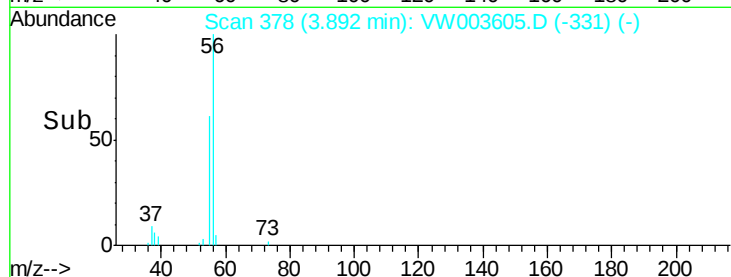
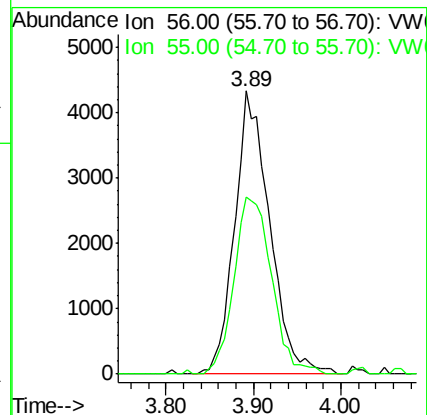
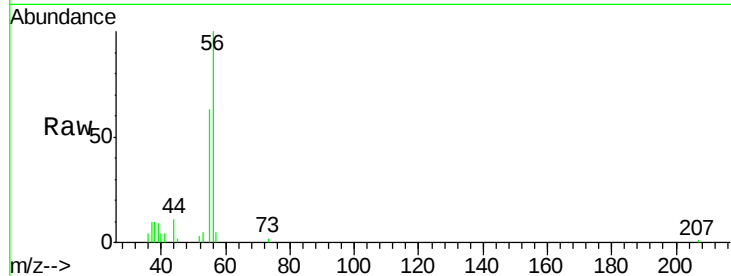
ClientSampleId :

Tot Ion: 56 Resp: 12049

Ion Ratio Lower Upper

56 100

55 67.2 55.4 83.2



#14

Allyl chloride

Concen: 20.57 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

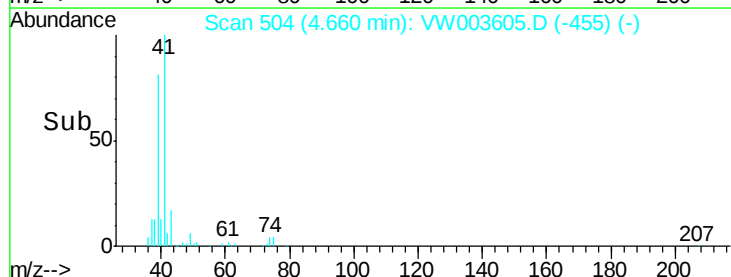
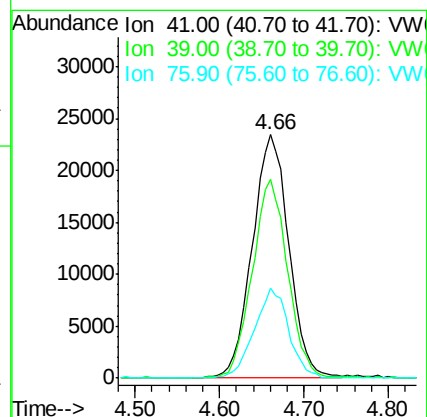
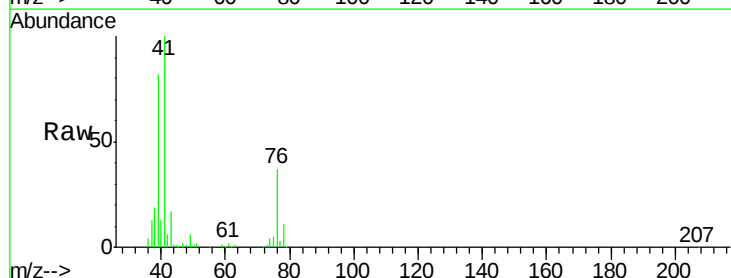
Tgt Ion: 41 Resp: 69789

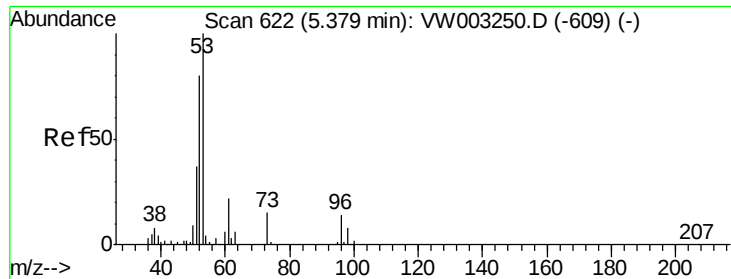
Ion Ratio Lower Upper

41 100

39 78.8 63.2 94.8

76 34.6 28.0 42.0





#15

Acrylonitrile

Concen: 97.02 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

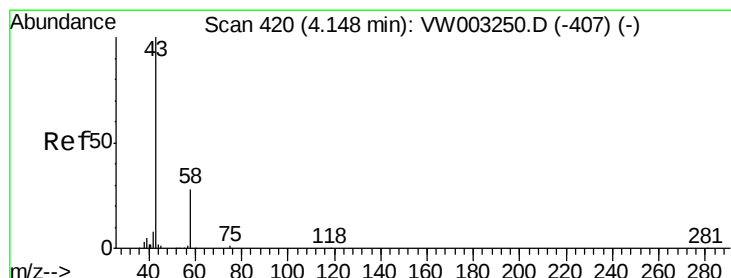
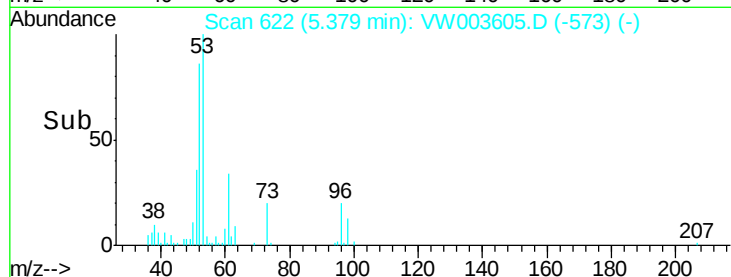
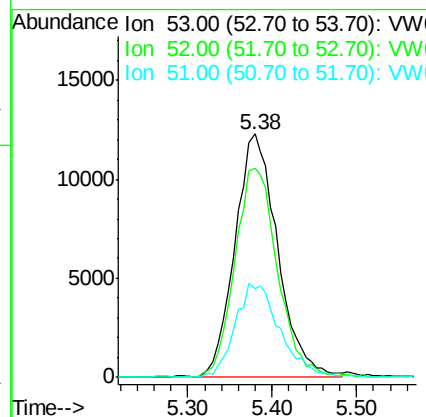
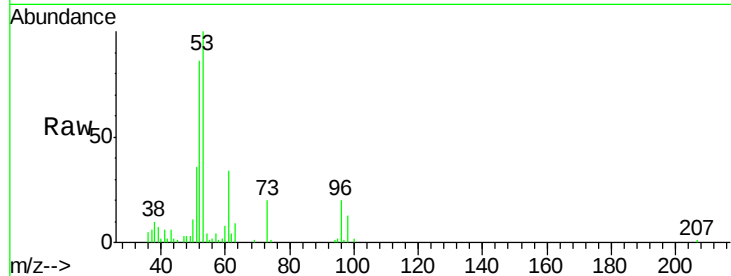
Tot Ion: 53 Resp: 42333

Ion Ratio Lower Upper

53 100

52 85.5 66.6 100.0

51 40.5 30.6 46.0



#16

Acetone

Concen: 102.96 ug/l

RT: 4.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VW003605.D

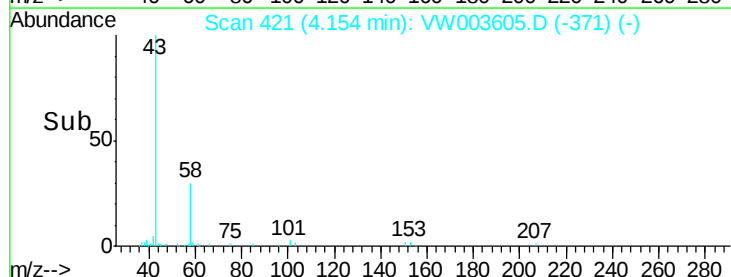
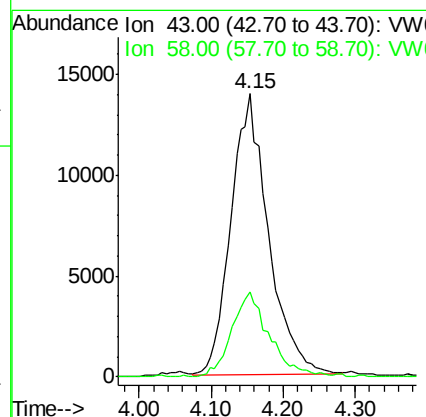
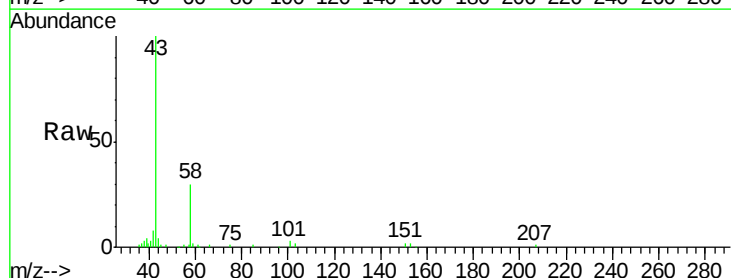
Acq: 27 Jun 2018 11:39

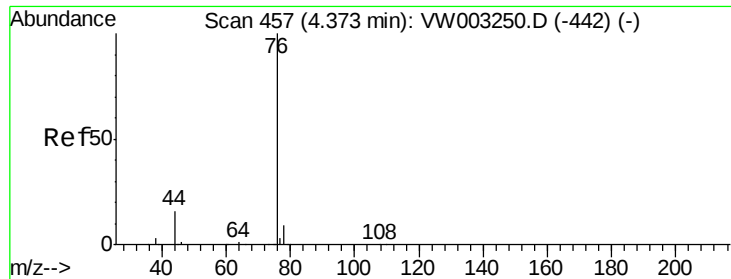
Tgt Ion: 43 Resp: 50617

Ion Ratio Lower Upper

43 100

58 30.1 22.6 34.0

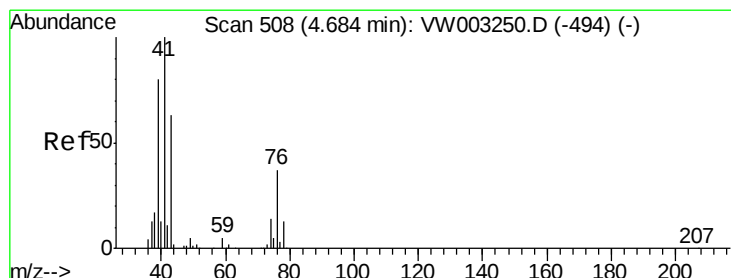
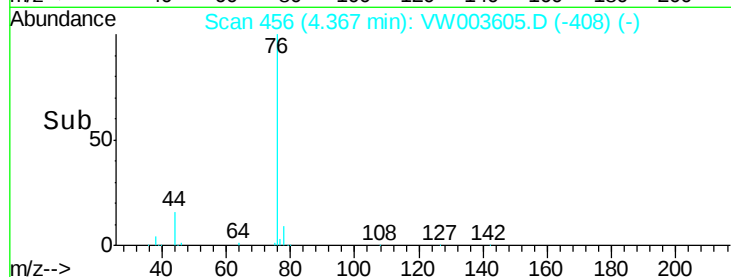
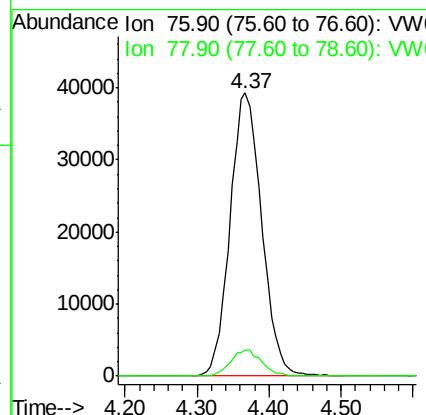
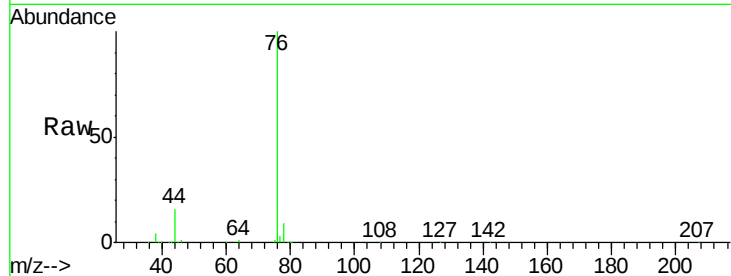




#17  
Carbon Disulfide  
Concen: 20.69 ug/l  
RT: 4.37 min Scan# 456  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

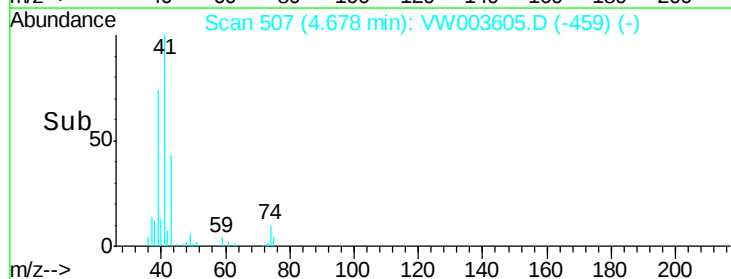
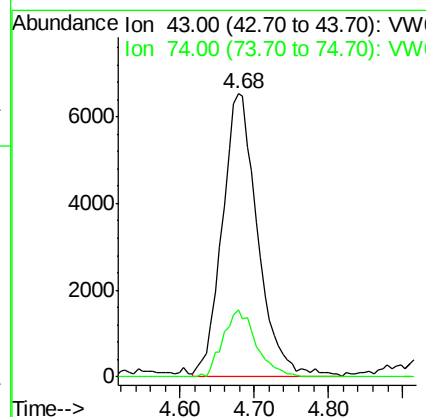
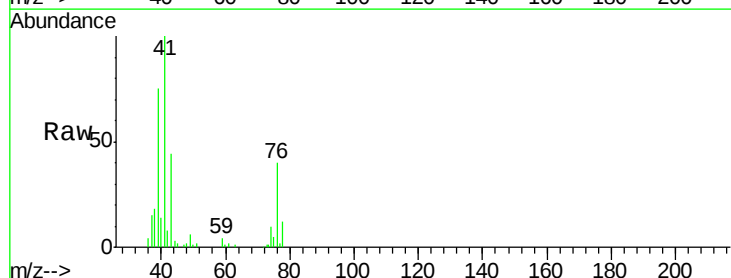
Instrument :  
MSVOA\_W  
ClientSampled :

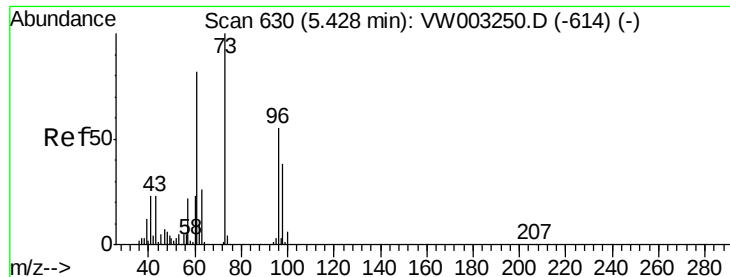
Tot Ion: 76 Resp: 119816  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7



#18  
Methyl Acetate  
Concen: 18.64 ug/l  
RT: 4.68 min Scan# 507  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 43 Resp: 21742  
Ion Ratio Lower Upper  
43 100  
74 22.0 18.7 28.1



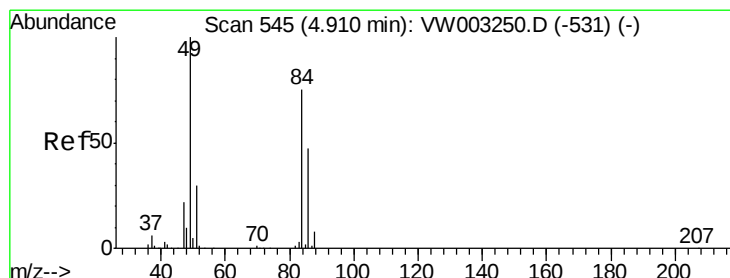
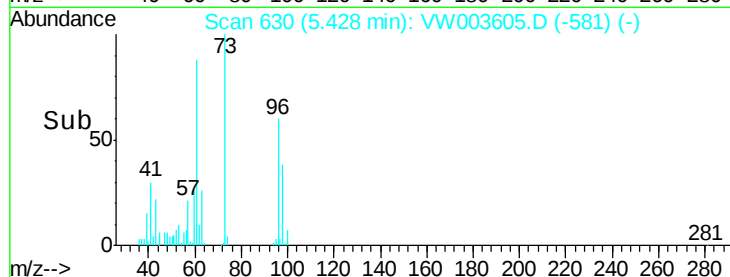
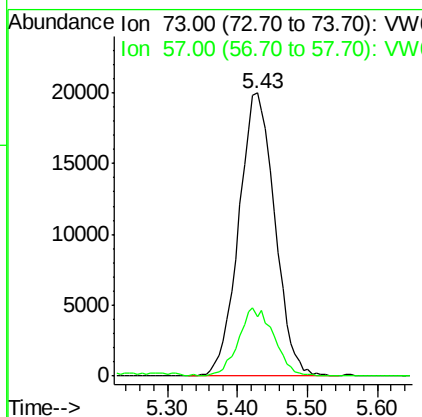
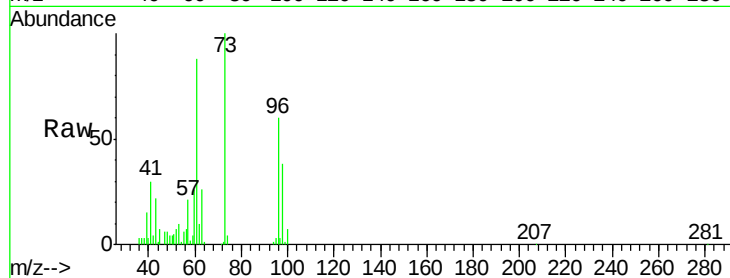


#19

Methyl tert-butyl Ether  
 Concen: 19.49 ug/l  
 RT: 5.43 min Scan# 630  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Instrument :  
 MSVOA\_W  
 ClientSampleId :

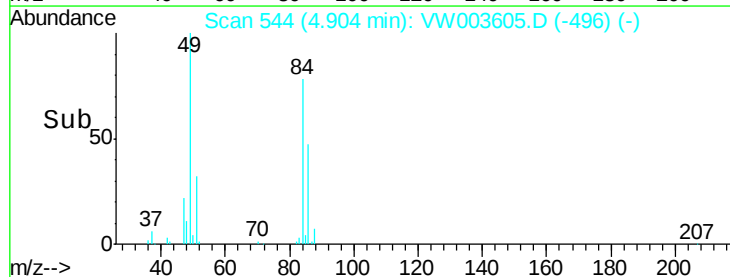
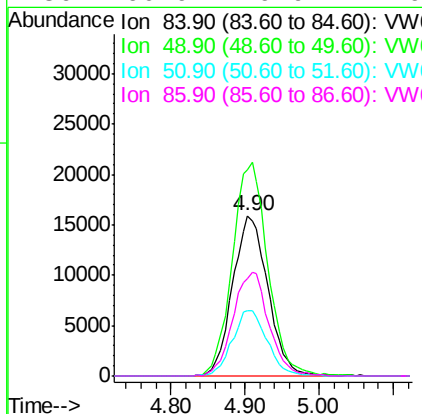
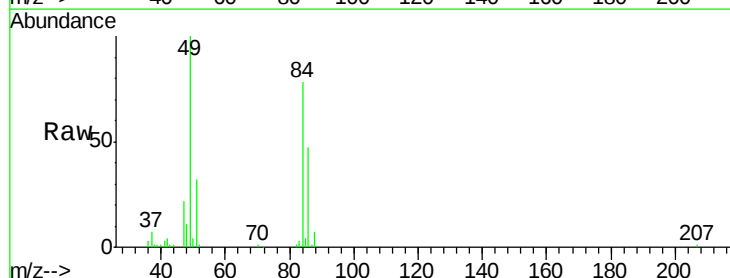
Tot Ion: 73 Resp: 71519  
 Ion Ratio Lower Upper  
 73 100  
 57 21.0 18.0 27.0

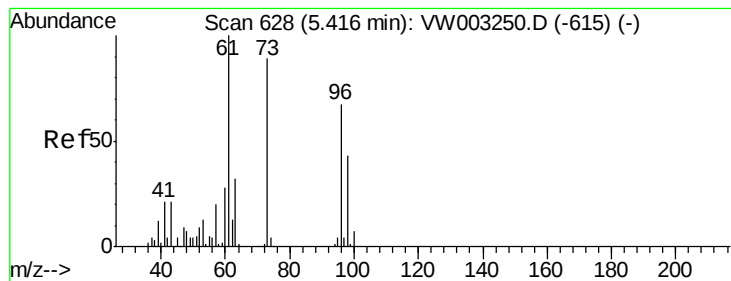


#20

Methylene Chloride  
 Concen: 23.46 ug/l  
 RT: 4.90 min Scan# 544  
 Delta R.T. -0.01 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 84 Resp: 53059  
 Ion Ratio Lower Upper  
 84 100  
 49 128.7 106.3 159.5  
 51 40.6 32.0 48.0  
 86 60.9 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 20.78 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

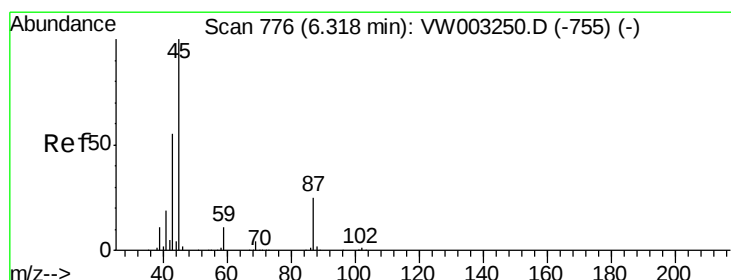
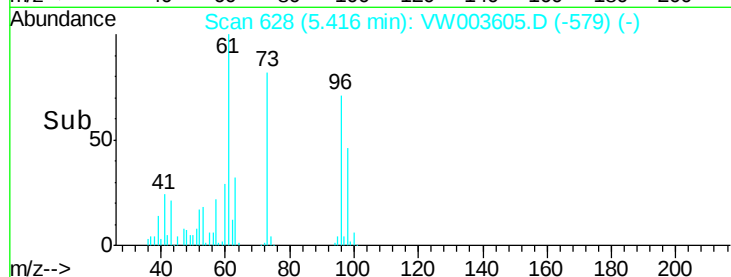
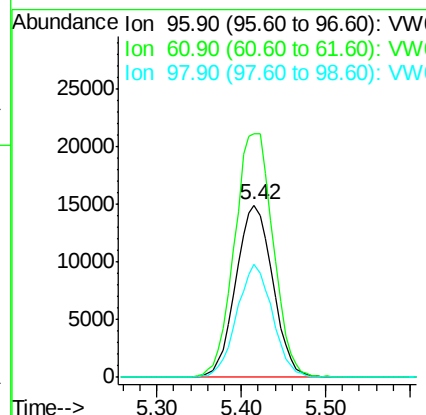
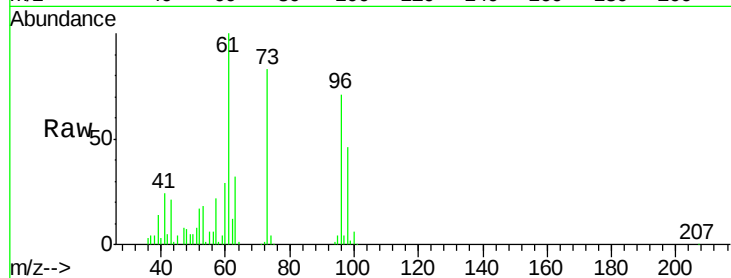
Tot Ion: 96 Resp: 44313

Ion Ratio Lower Upper

96 100

61 141.6 118.7 178.1

98 65.8 51.0 76.6



#22

Diisopropyl ether

Concen: 21.24 ug/l

RT: 6.31 min Scan# 775

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Tgt Ion: 45 Resp: 145038

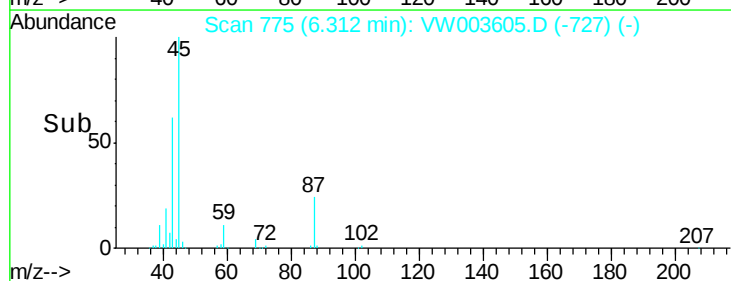
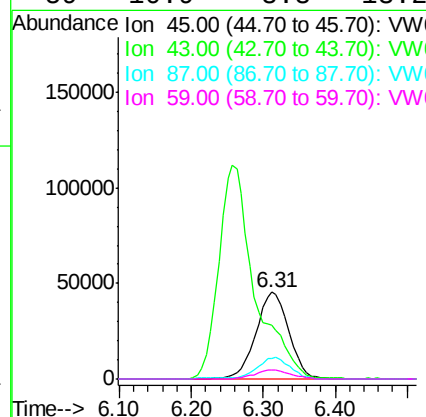
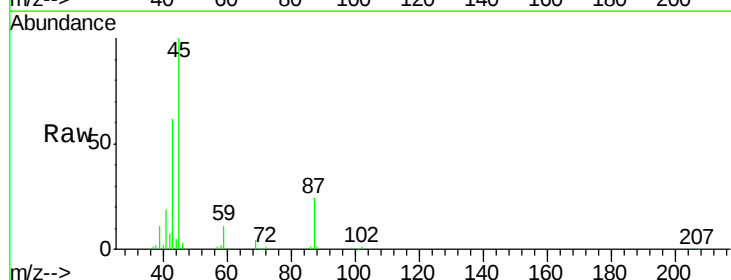
Ion Ratio Lower Upper

45 100

43 61.4 44.0 66.0

87 23.7 20.6 31.0

59 10.9 8.8 13.2





#23

Vinyl Acetate

Concen: 98.93 ug/l

RT: 6.26 min Scan# 766

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

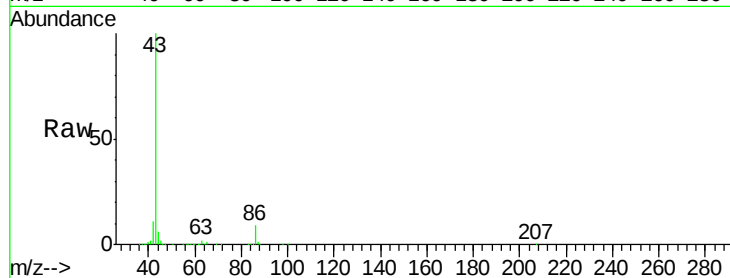
ClientSampleId :

Tot Ion: 43 Resp: 389355

Ion Ratio Lower Upper

43 100

86 9.5 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

120000

100000

80000

60000

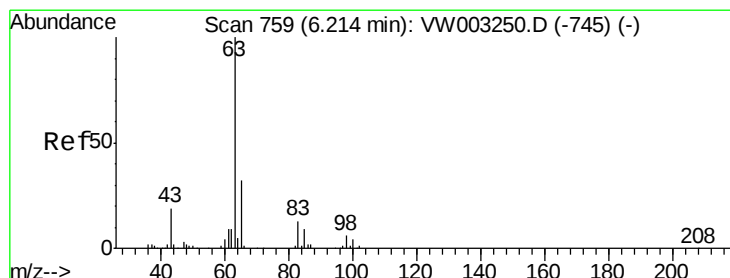
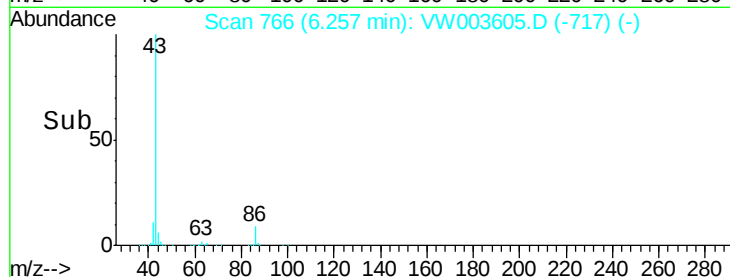
40000

20000

0

6.10 6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 21.45 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

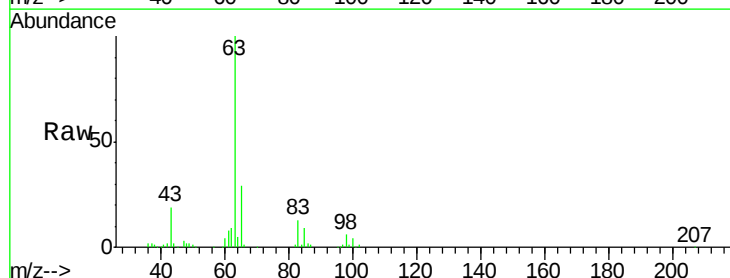
Tgt Ion: 63 Resp: 86949

Ion Ratio Lower Upper

63 100

98 5.7 2.8 8.3

100 4.2 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

40000

30000

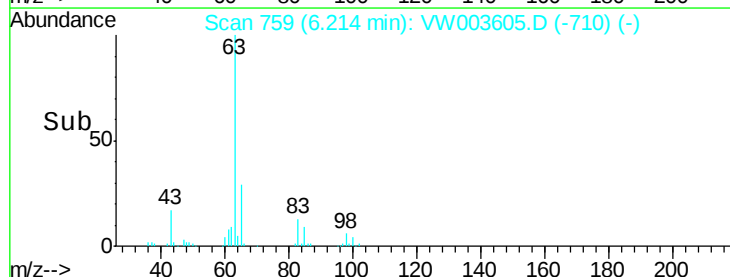
20000

10000

0

6.10 6.20 6.30

Time-->





#25

2-Butanone

Concen: 101.61 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

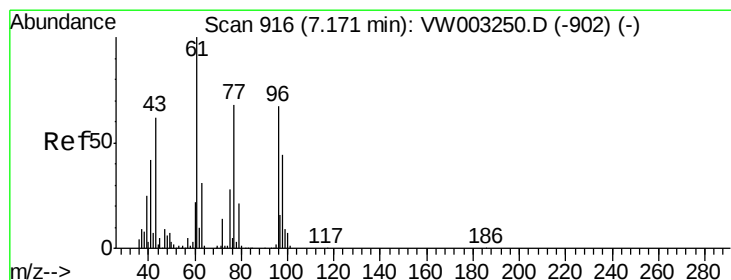
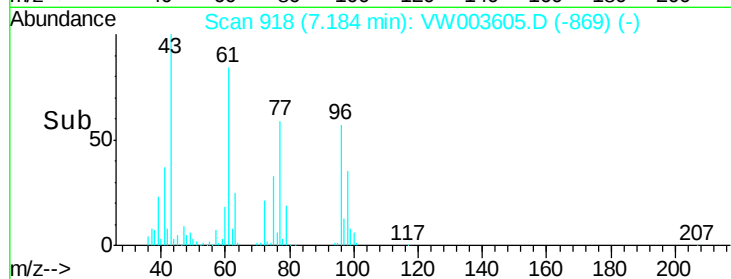
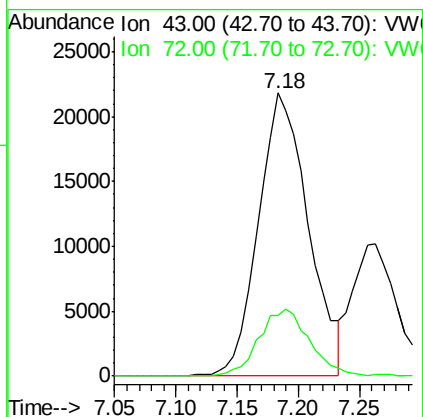
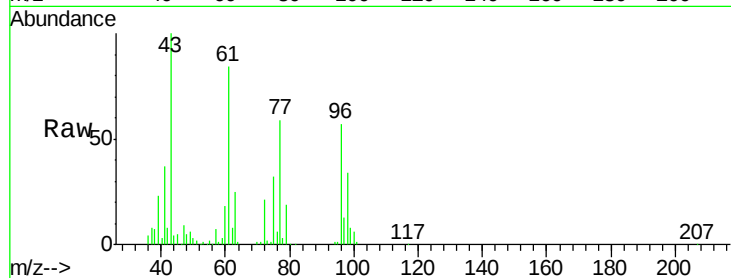
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 62112

Ion Ratio Lower Upper

43 100

72 21.4 20.3 30.5



#26

2,2-Dichloropropane

Concen: 20.87 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.01 min

Lab File: VW003605.D

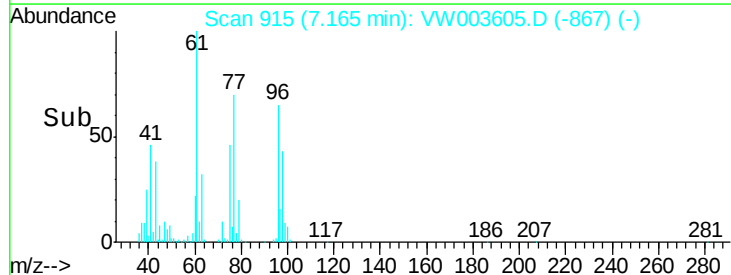
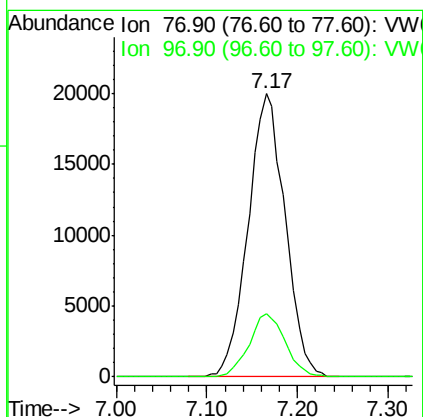
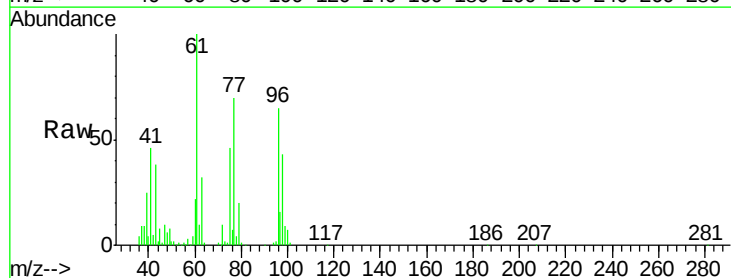
Acq: 27 Jun 2018 11:39

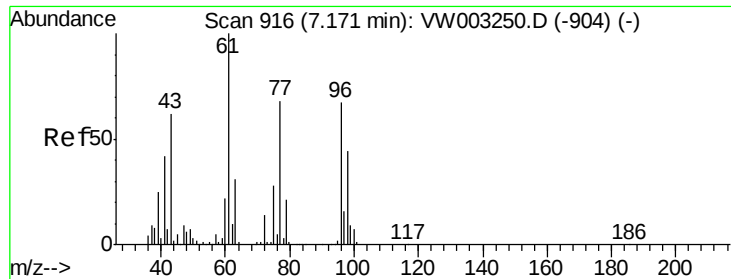
Tgt Ion: 77 Resp: 56466

Ion Ratio Lower Upper

77 100

97 21.7 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 20.41 ug/l

RT: 7.17 min Scan# 916

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampled :

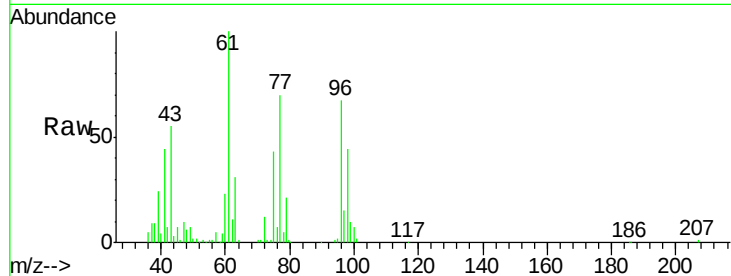
Tot Ion: 96 Resp: 47800

Ion Ratio Lower Upper

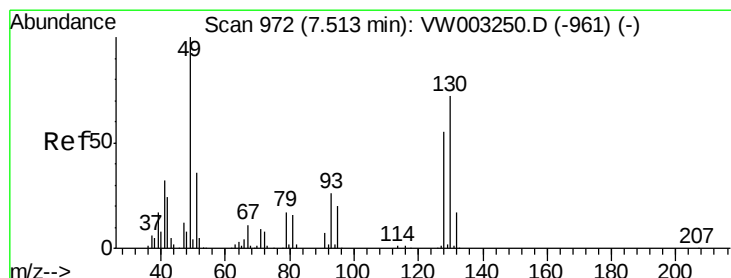
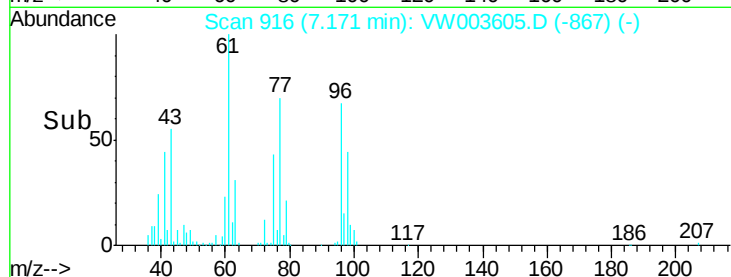
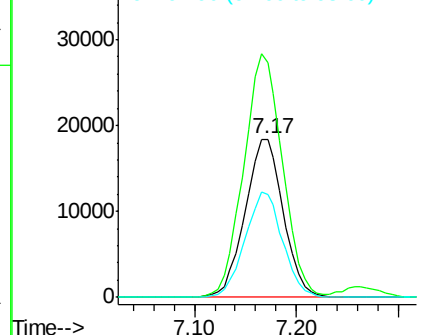
96 100

61 156.4 0.0 298.8

98 65.9 0.0 130.4



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



#28

Bromochloromethane

Concen: 19.02 ug/l

RT: 7.51 min Scan# 972

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

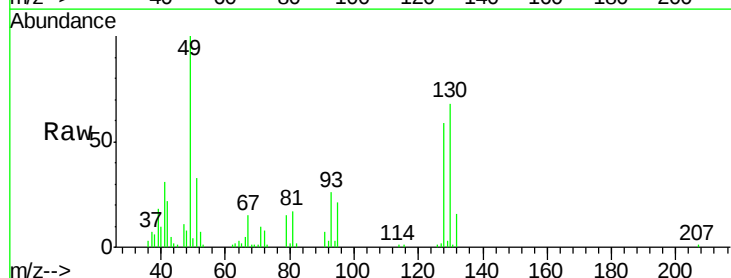
Tgt Ion: 49 Resp: 32081

Ion Ratio Lower Upper

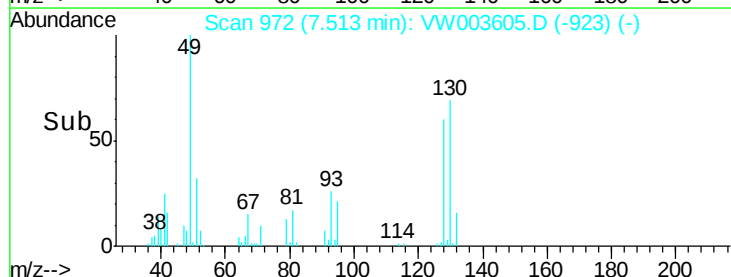
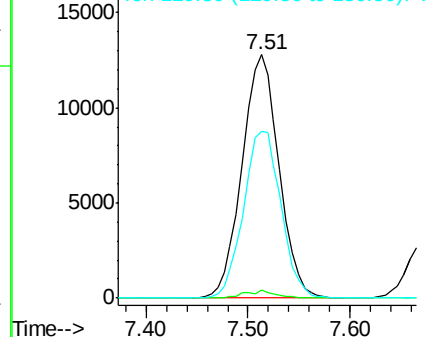
49 100

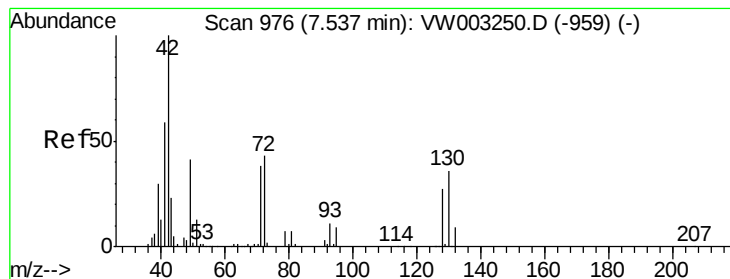
129 2.6 0.0 4.6

130 69.6 59.4 89.2



Abundance Ion 48.90 (48.60 to 49.60): VW  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 91.96 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.00 min

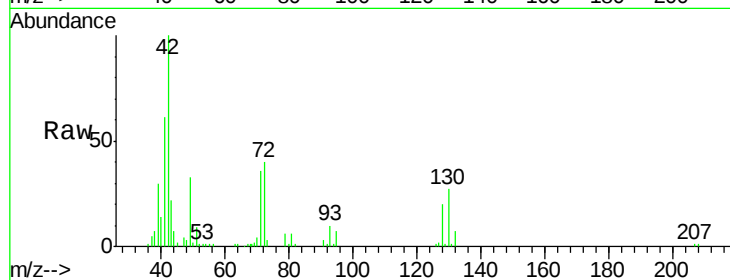
Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

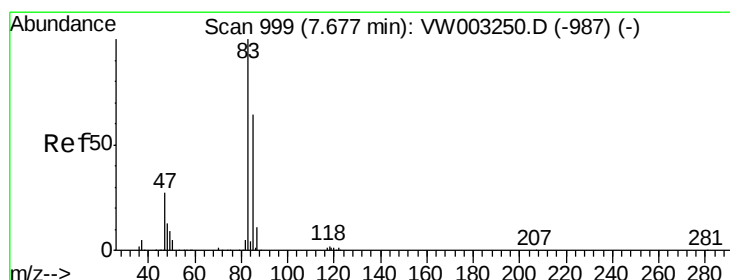
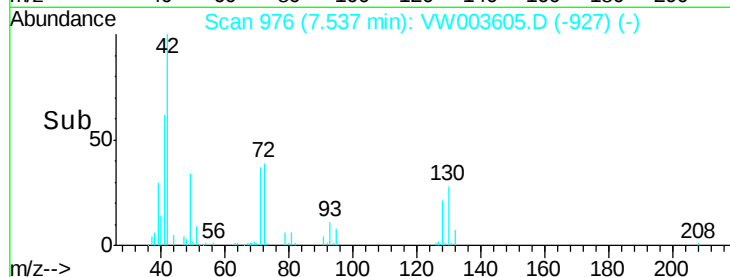
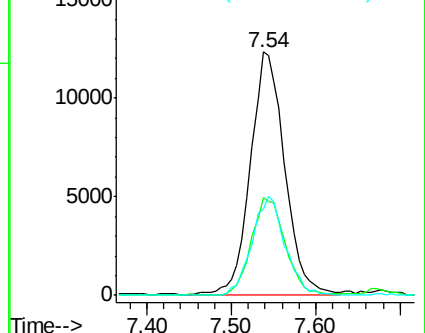
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 42 Resp: 34357

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 39.5  | 32.4  | 48.6  |
| 71  | 39.0  | 31.2  | 46.8  |



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



#30

Chloroform

Concen: 21.74 ug/l

RT: 7.68 min Scan# 999

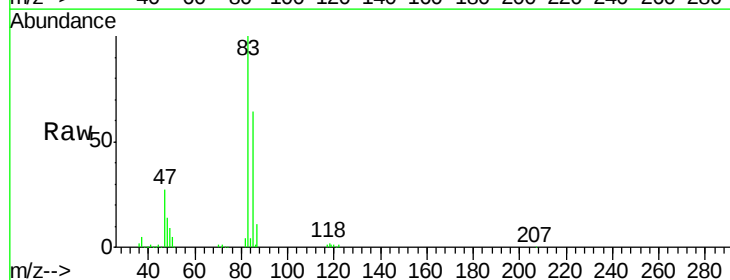
Delta R.T. 0.00 min

Lab File: VW003605.D

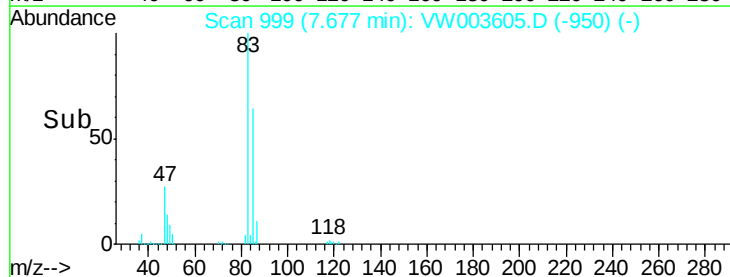
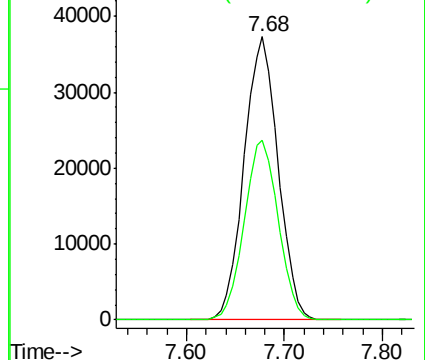
Acq: 27 Jun 2018 11:39

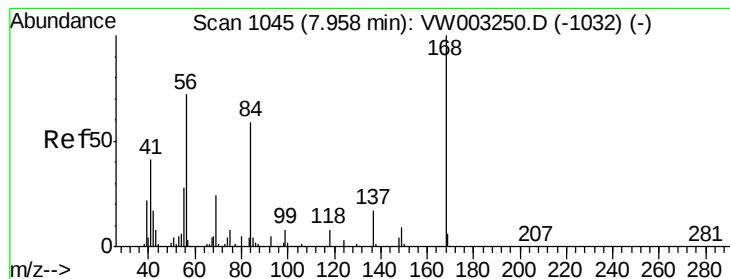
Tgt Ion: 83 Resp: 89798

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.7  | 51.3  | 76.9  |



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





#31

Cyclohexane

Concen: 20.47 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampled :

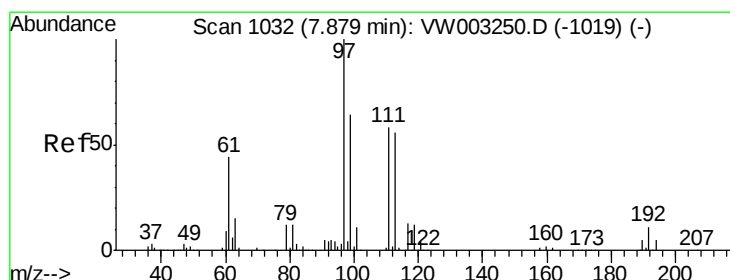
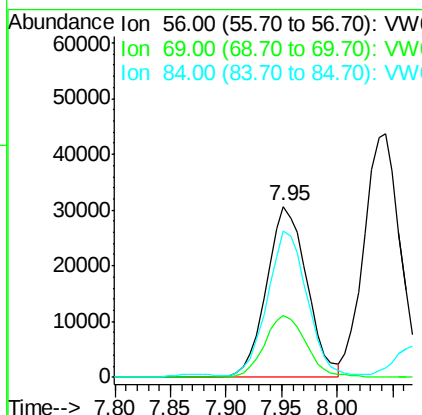
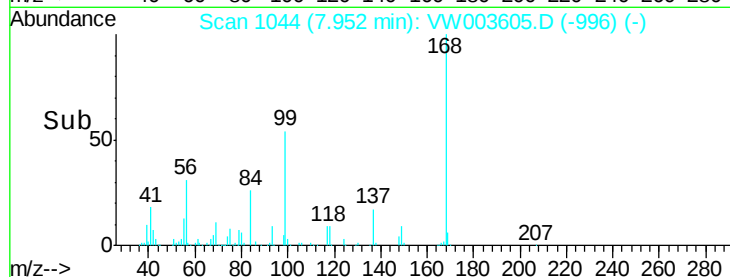
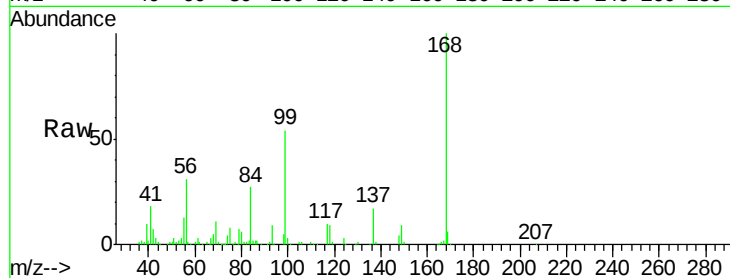
Tot Ion: 56 Resp: 77540

Ion Ratio Lower Upper

56 100

69 36.0 26.3 39.5

84 84.0 65.7 98.5



#32

1,1,1-Trichloroethane

Concen: 21.10 ug/l

RT: 7.87 min Scan# 1031

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

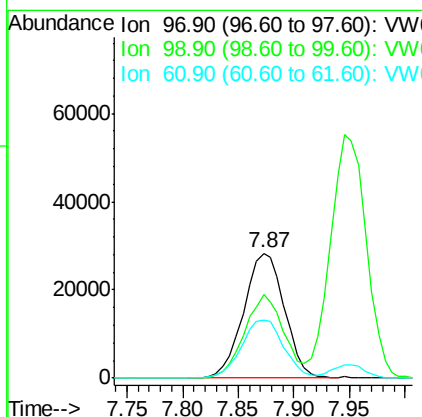
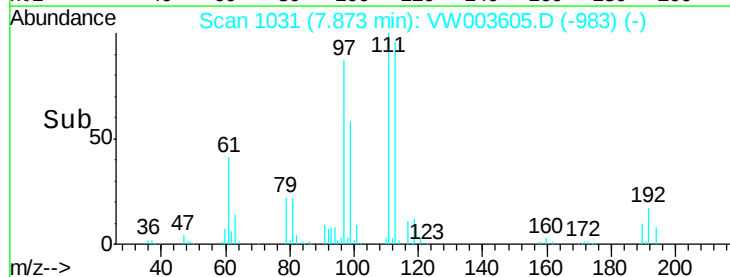
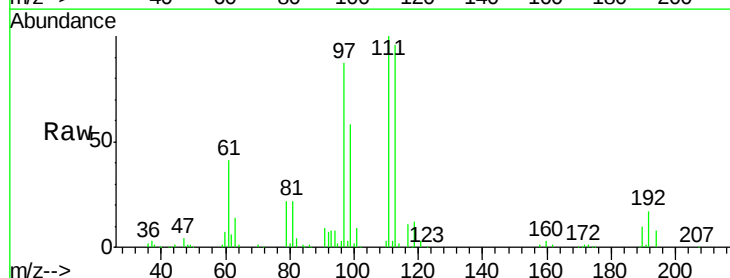
Tgt Ion: 97 Resp: 71937

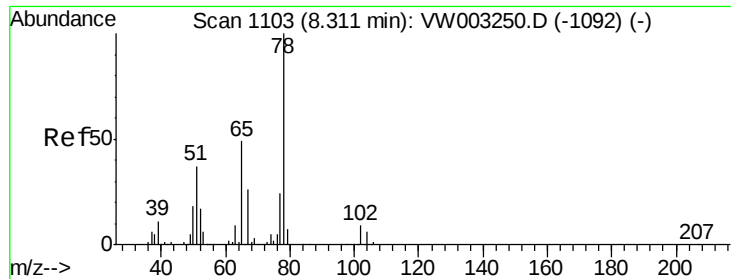
Ion Ratio Lower Upper

97 100

99 64.8 51.7 77.5

61 48.2 37.6 56.4





#33

1,2-Dichloroethane-d4

Concen: 50.10 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

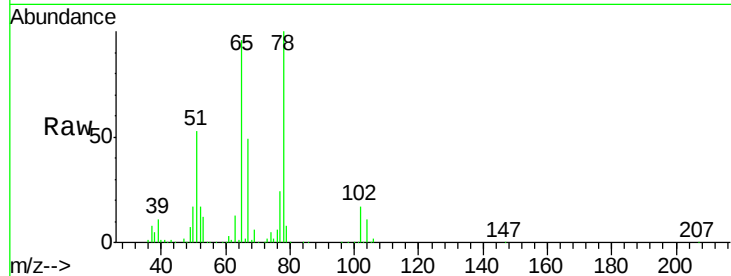
ClientSampleId :

Tot Ion: 65 Resp: 117433

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

60000

50000

40000

30000

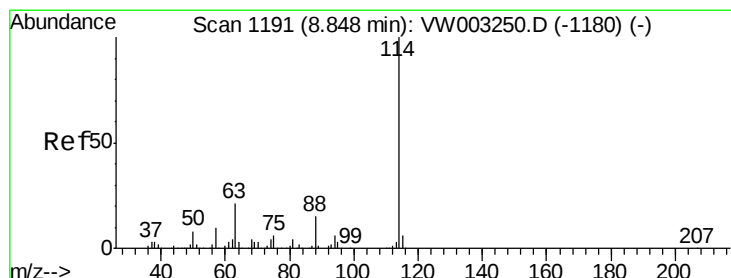
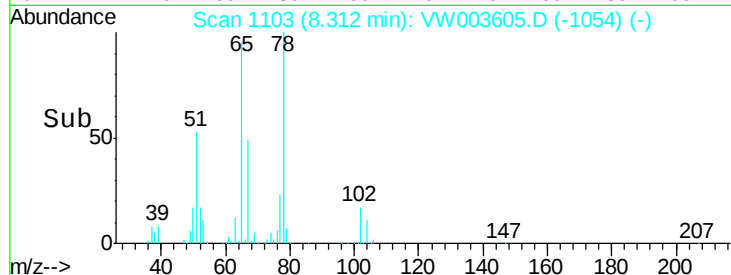
20000

10000

0

8.20 8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

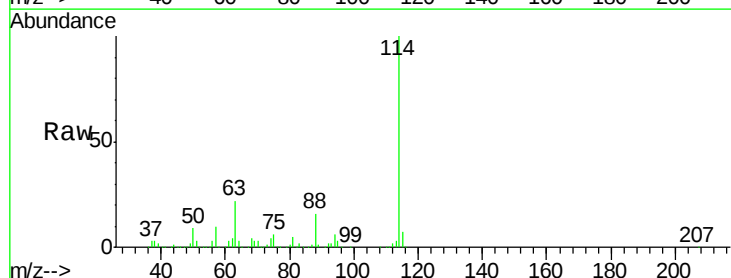
Tgt Ion: 114 Resp: 331013

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.0

88 15.7 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.85

200000

150000

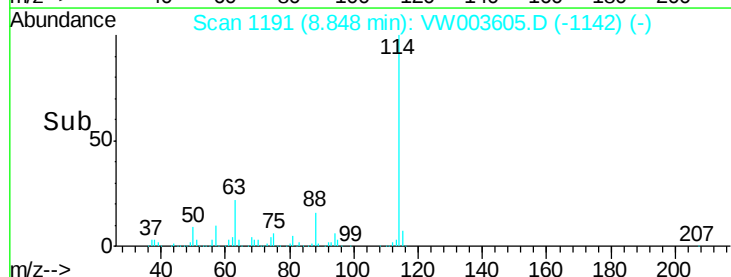
100000

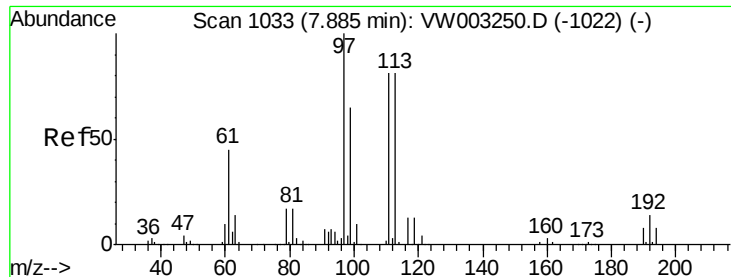
50000

0

8.70 8.80 8.90 9.00

Time-->

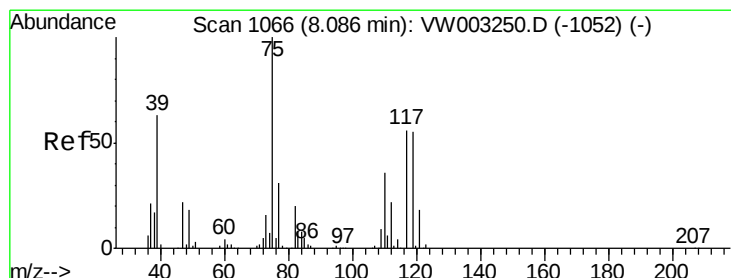
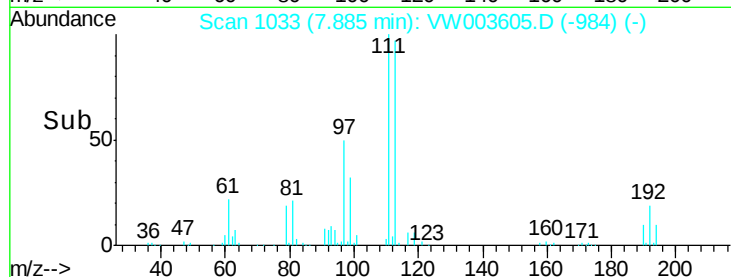
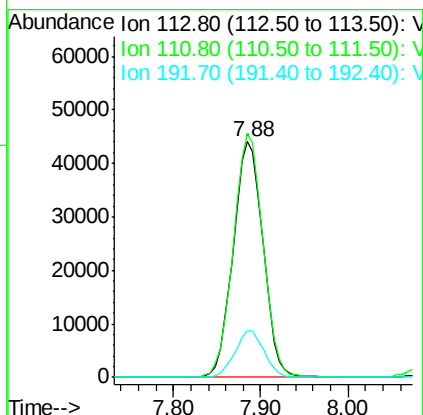
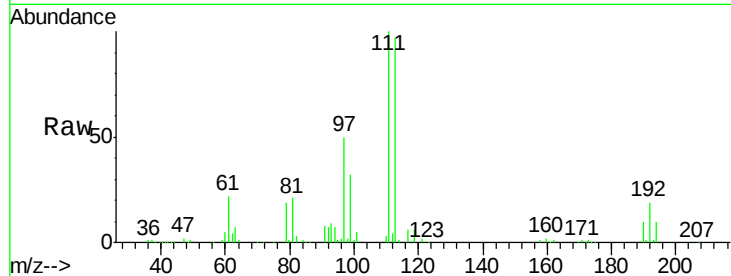




#35  
Dibromofluoromethane  
Concen: 50.97 ug/l  
RT: 7.88 min Scan# 1033  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

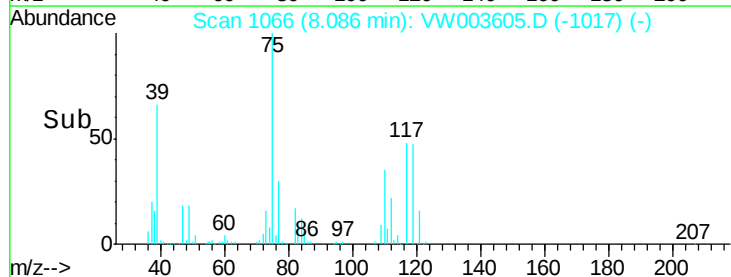
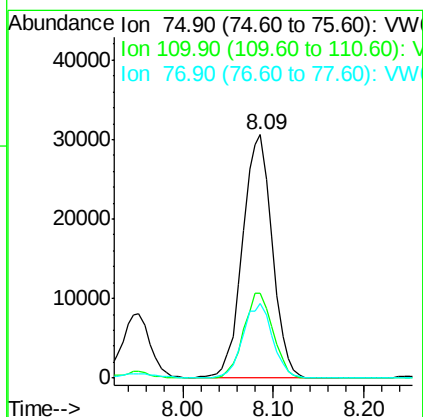
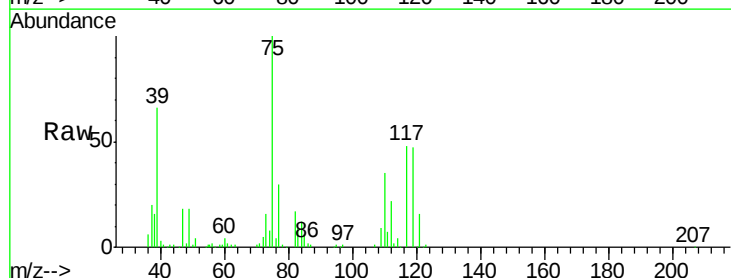
Instrument :  
MSVOA\_W  
ClientSampleId :

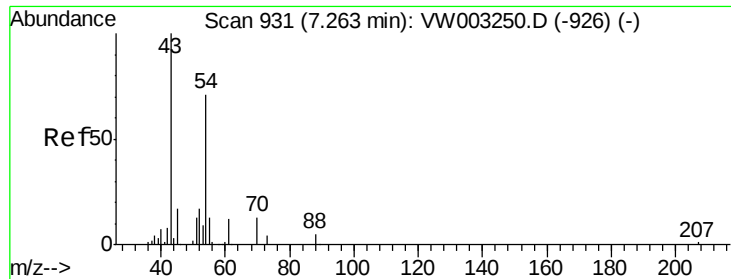
Tot Ion:113 Resp: 104831  
Ion Ratio Lower Upper  
113 100  
111 102.7 82.2 123.2  
192 19.5 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 21.75 ug/l  
RT: 8.09 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 75 Resp: 69543  
Ion Ratio Lower Upper  
75 100  
110 34.5 17.1 51.3  
77 30.7 24.9 37.3

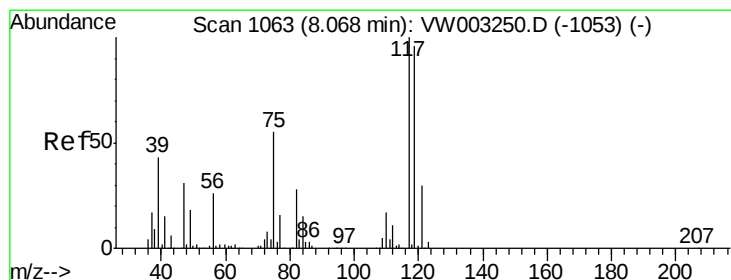
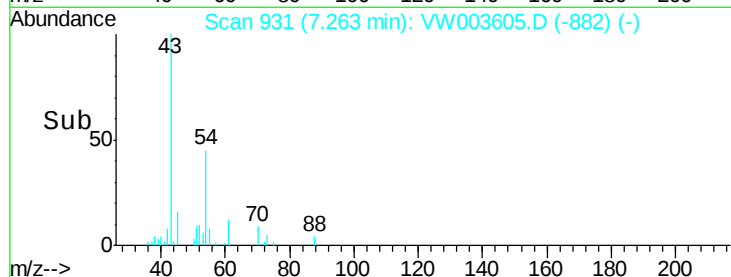
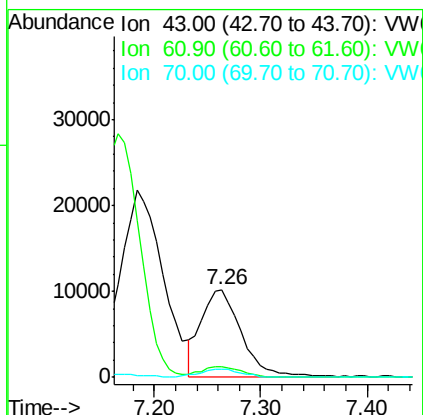
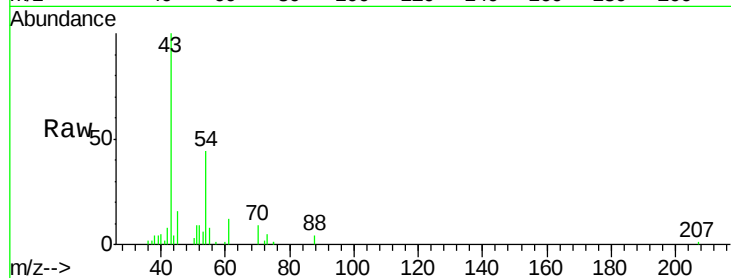




#37  
Ethyl Acetate  
Concen: 19.76 ug/l  
RT: 7.26 min Scan# 931  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

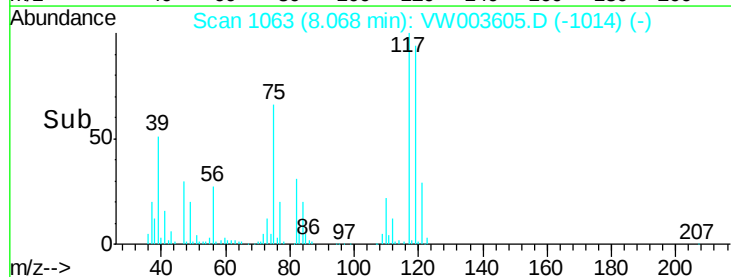
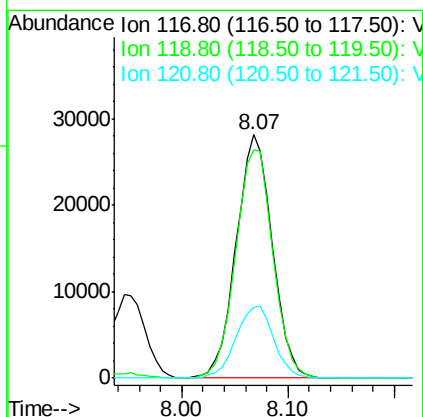
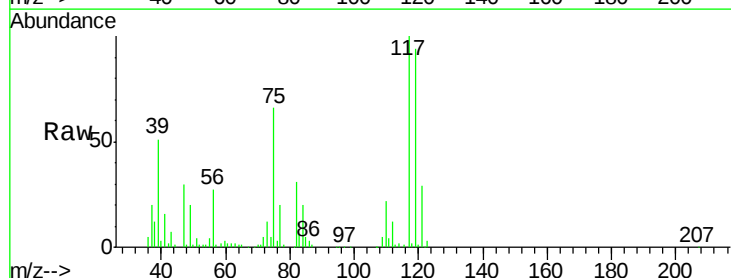
Instrument :  
MSVOA\_W  
ClientSampleId :

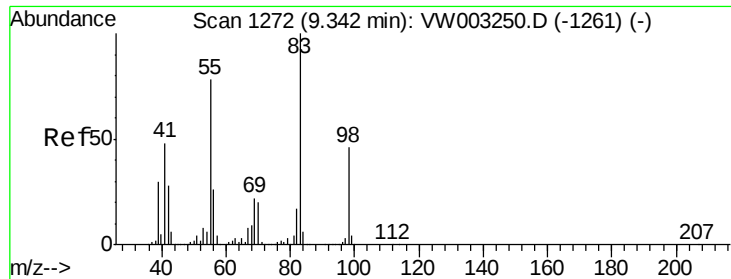
Tot Ion: 43 Resp: 26170  
Ion Ratio Lower Upper  
43 100  
61 12.9 10.8 16.2  
70 9.6 7.8 11.6



#38  
Carbon Tetrachloride  
Concen: 21.38 ug/l  
RT: 8.07 min Scan# 1063  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 117 Resp: 67037  
Ion Ratio Lower Upper  
117 100  
119 93.9 76.6 115.0  
121 29.0 23.9 35.9

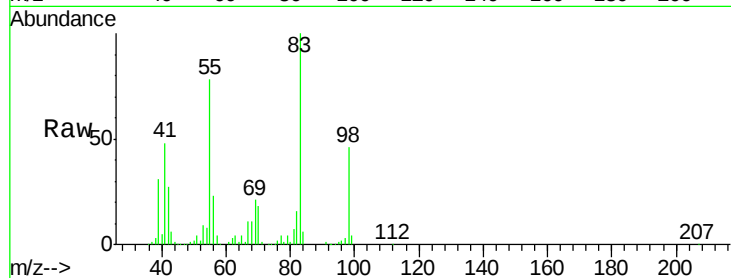




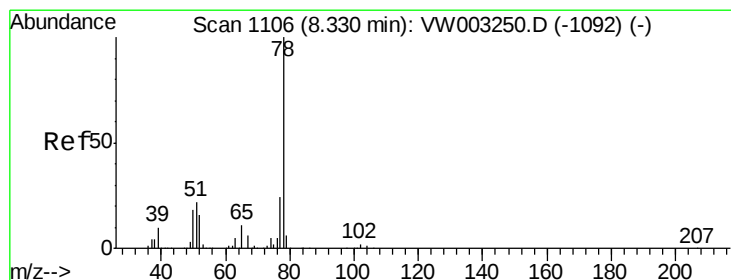
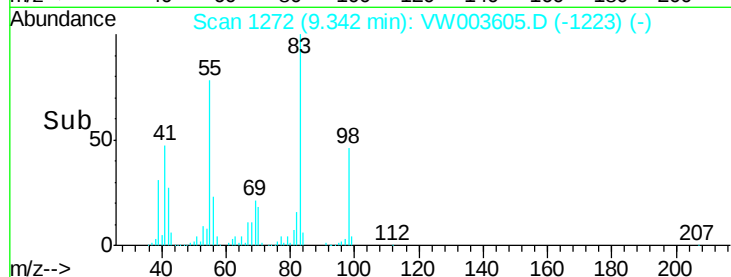
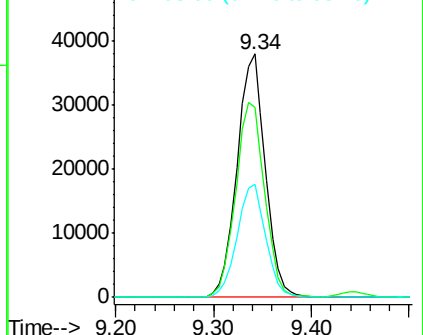
#39  
Methvlcvclohexane  
Concen: 20.51 ug/l  
RT: 9.34 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 83 Resp: 75856  
Ion Ratio Lower Upper  
83 100  
55 78.2 62.6 93.8  
98 46.3 37.0 55.4

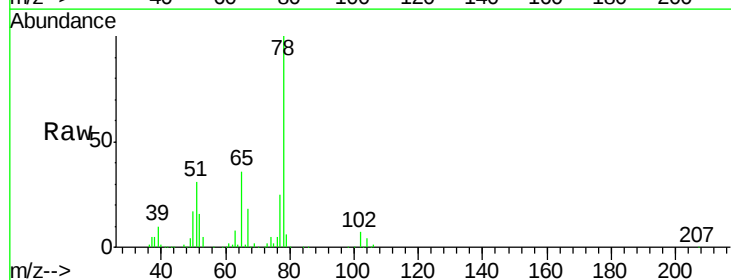


Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 55.00 (54.70 to 55.70): VW  
Ion 98.00 (97.70 to 98.70): VW

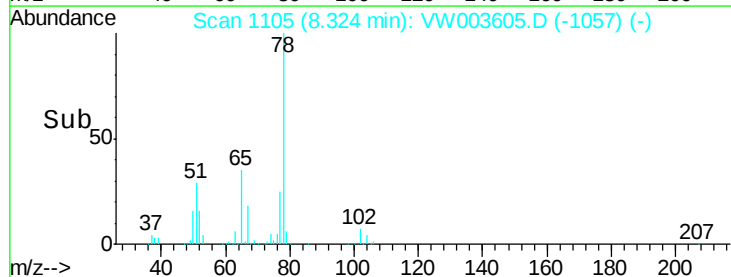
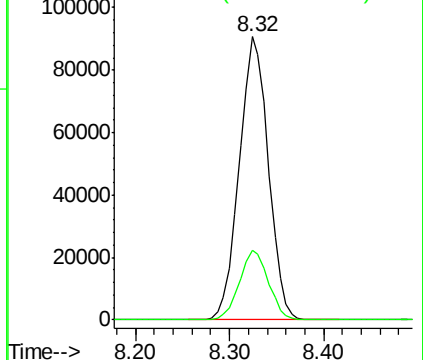


#40  
Benzene  
Concen: 22.06 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 78 Resp: 194351  
Ion Ratio Lower Upper  
78 100  
77 24.8 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VW  
Ion 77.00 (76.70 to 77.70): VW

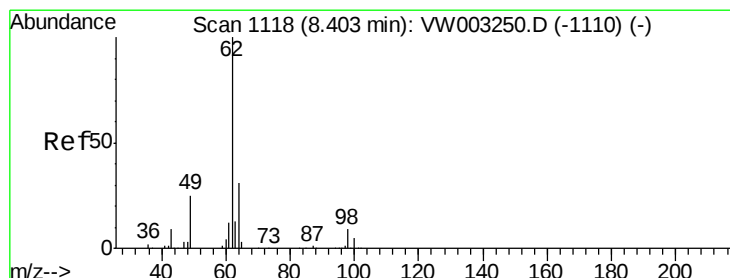
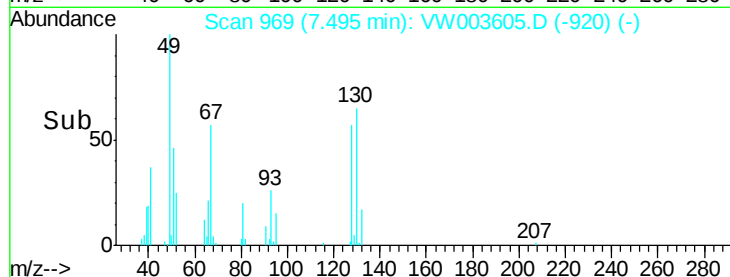
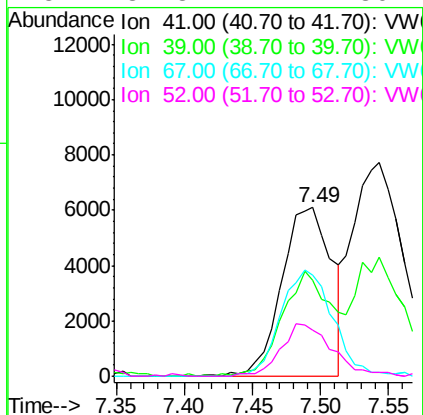
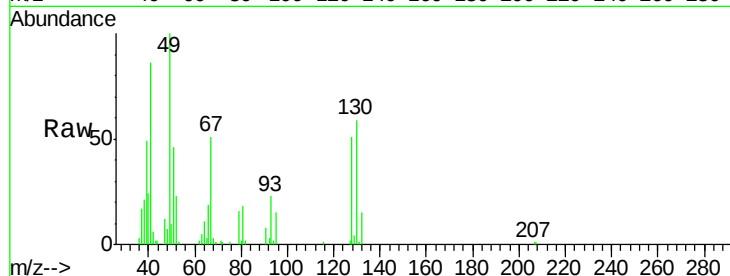




#41  
Methacrylonitrile  
Concen: 19.12 ug/l  
RT: 7.49 min Scan# 969  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

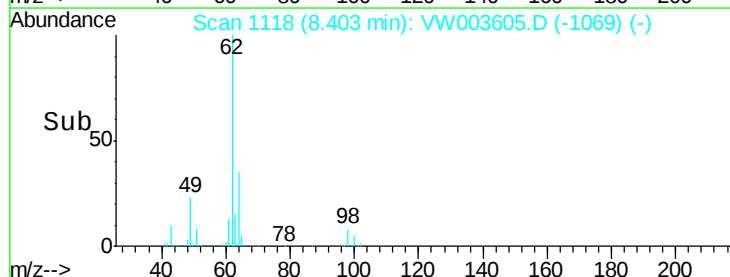
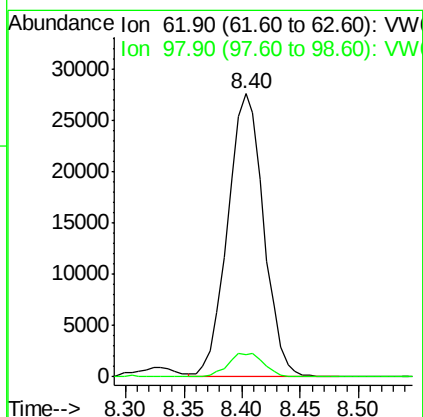
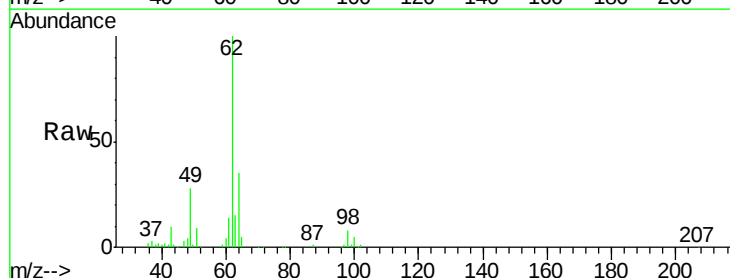
Instrument :  
MSVOA\_W  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 15535 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 64.6  | 45.8  | 68.8  |
| 67       | 65.7  | 52.3  | 78.5  |
| 52       | 31.8  | 24.1  | 36.1  |



#42  
1,2-Dichloroethane  
Concen: 21.55 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 59488 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.5   | 0.0   | 17.2  |





#43

Isopropyl Acetate

Concen: 18.85 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

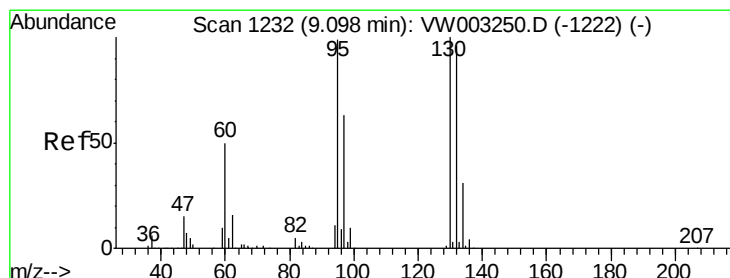
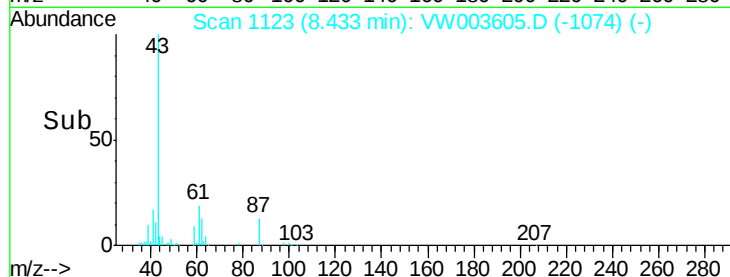
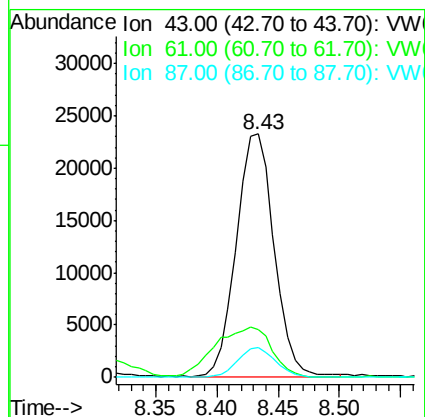
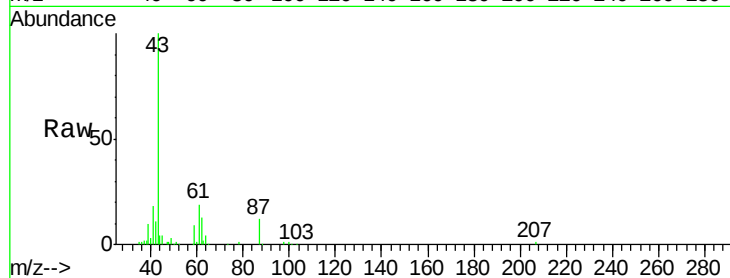
Tot Ion: 43 Resp: 49566

Ion Ratio Lower Upper

43 100

61 31.3 23.1 34.7

87 12.3 9.8 14.6



#44

Trichloroethene

Concen: 21.79 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW003605.D

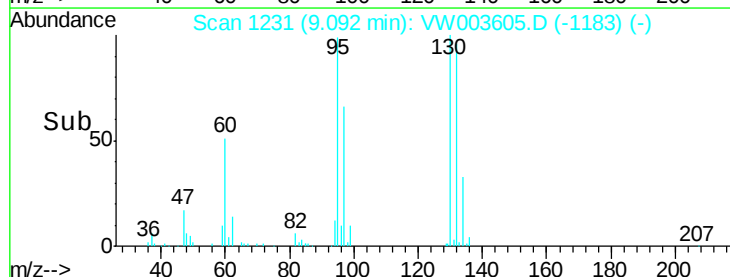
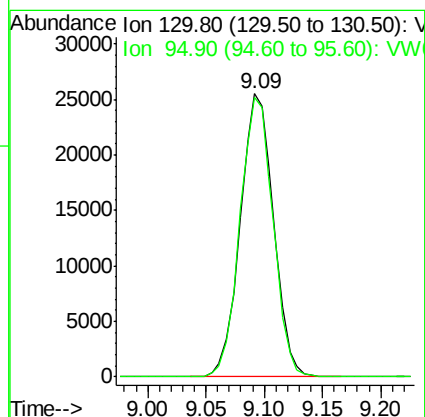
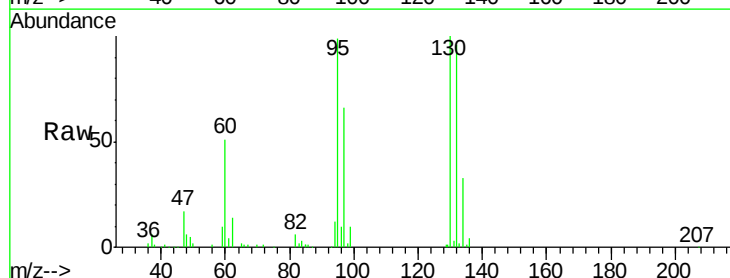
Acq: 27 Jun 2018 11:39

Tgt Ion: 130 Resp: 50885

Ion Ratio Lower Upper

130 100

95 98.9 0.0 198.0

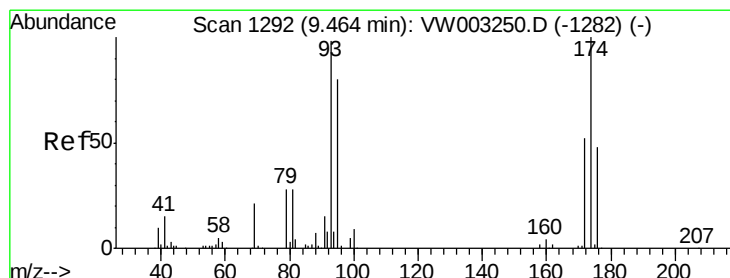
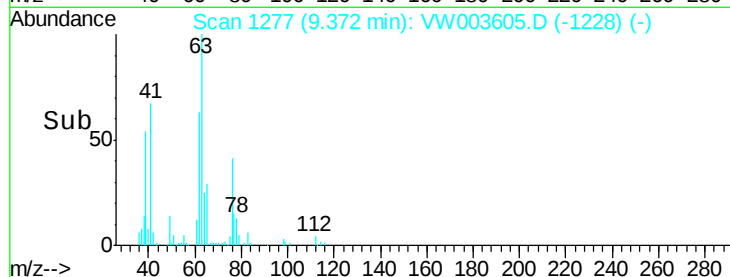
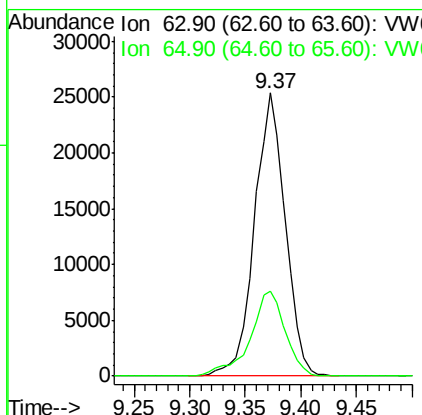
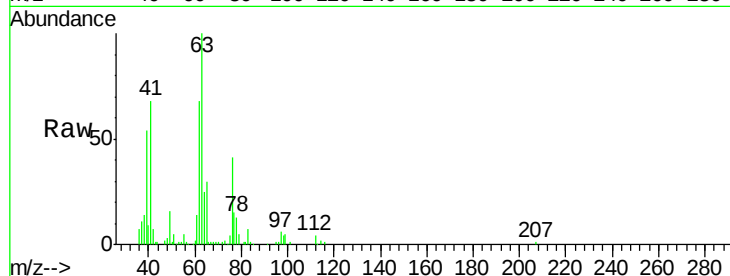




#45  
 1,2-Dichloropropane  
 Concen: 21.84 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

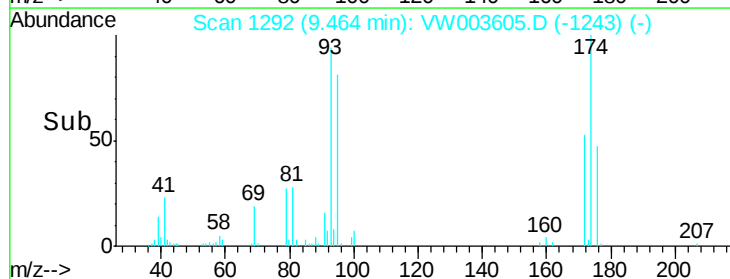
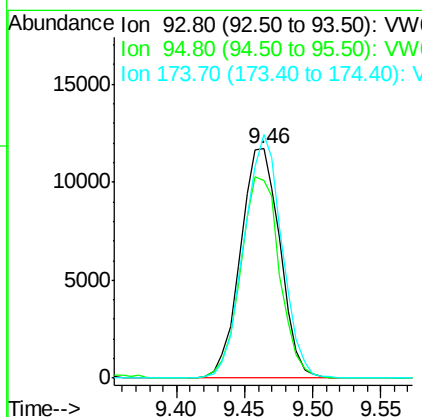
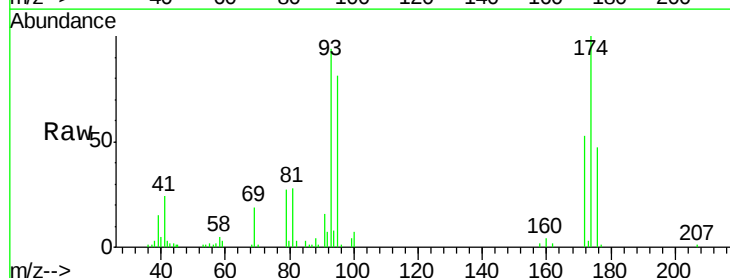
Instrument :  
 MSVOA\_W  
 ClientSampled :

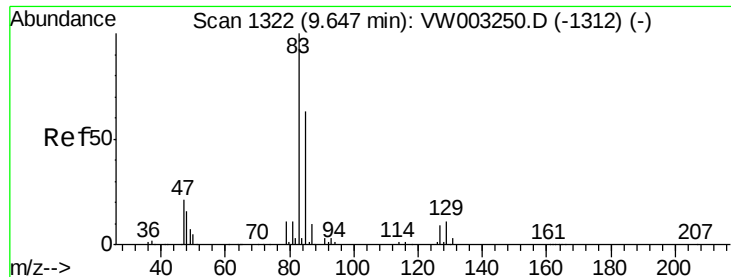
Tot Ion: 63 Resp: 48994  
 Ion Ratio Lower Upper  
 63 100  
 65 30.0 25.1 37.7



#46  
 Dibromomethane  
 Concen: 20.80 ug/l  
 RT: 9.46 min Scan# 1292  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 93 Resp: 23892  
 Ion Ratio Lower Upper  
 93 100  
 95 86.1 65.8 98.8  
 174 101.6 81.4 122.0





#47

Bromodichloromethane

Concen: 21.86 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampleId :

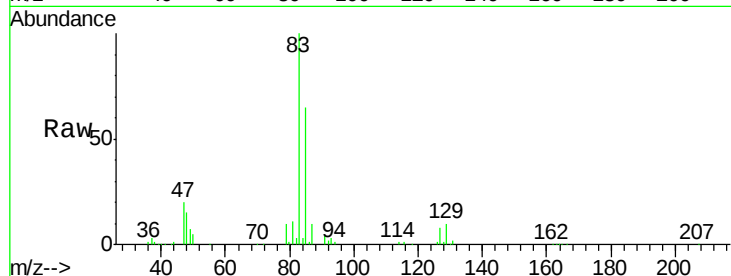
Tot Ion: 83 Resp: 64348

Ion Ratio Lower Upper

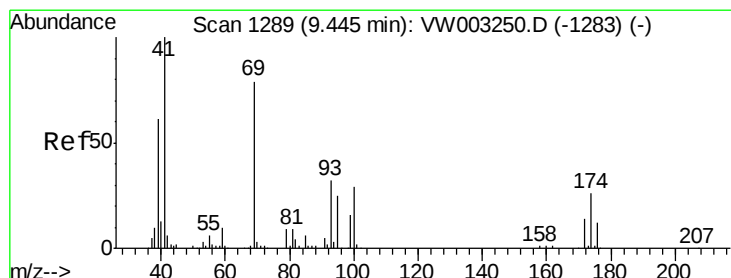
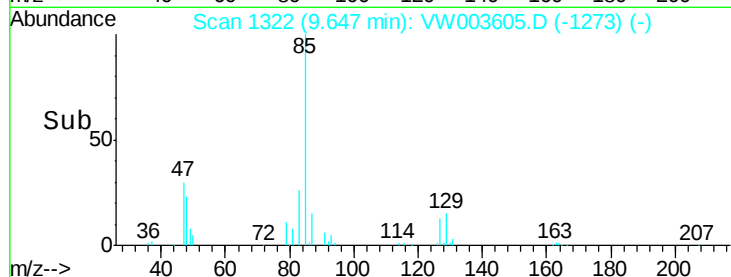
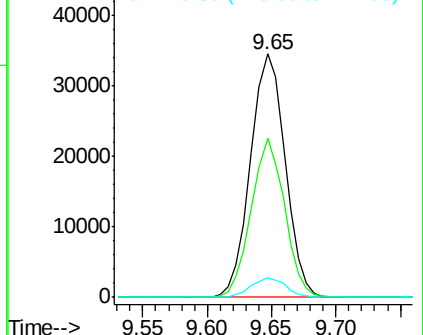
83 100

85 65.2 50.6 75.8

127 8.2 6.8 10.2



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.29 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

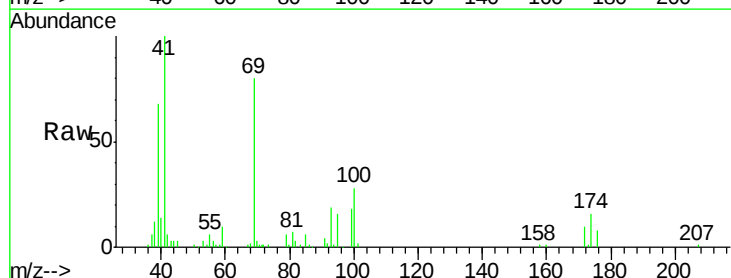
Tgt Ion: 41 Resp: 23835

Ion Ratio Lower Upper

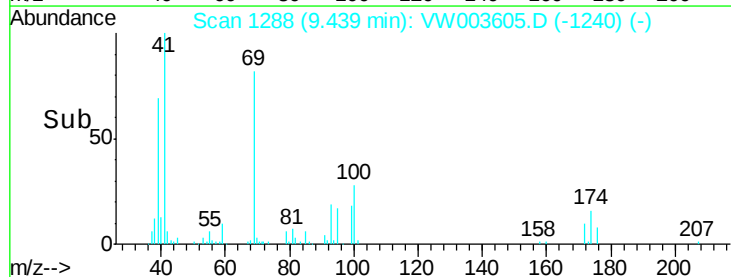
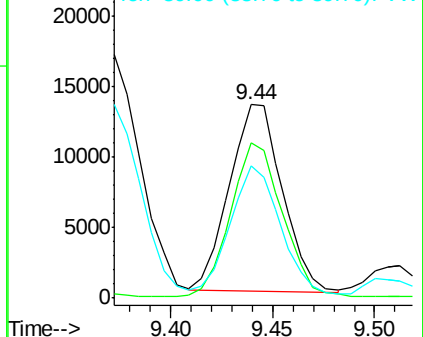
41 100

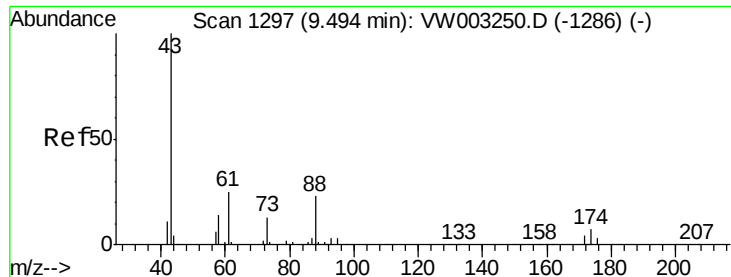
69 81.1 65.4 98.2

39 63.3 54.2 81.2



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 353.57 ug/l

RT: 9.50 min Scan# 1298

Delta R.T. 0.01 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampleId :

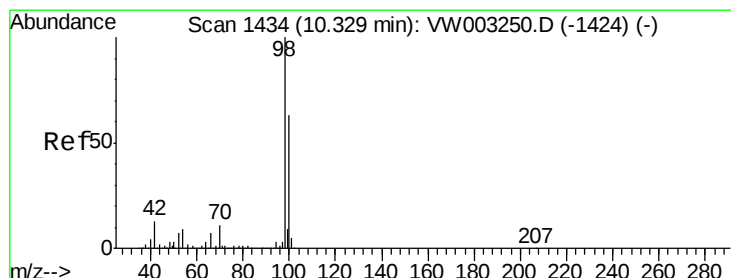
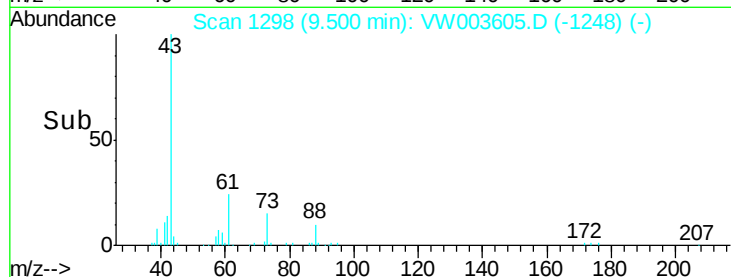
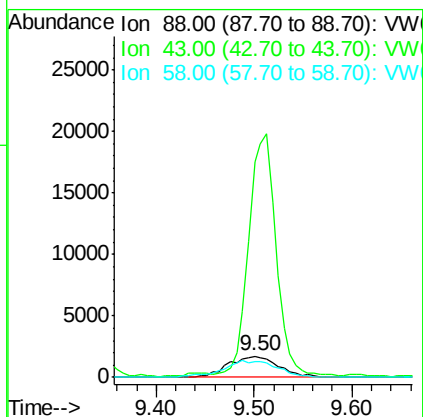
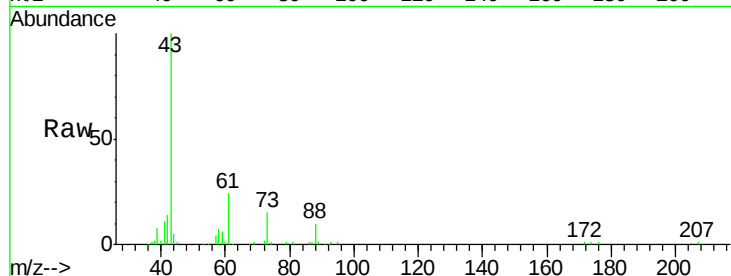
Tot Ion: 88 Resp: 6132

Ion Ratio Lower Upper

88 100

43 627.9 454.7 682.1

58 0.0 58.6 88.0#



#50

Toluene-d8

Concen: 52.04 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003605.D

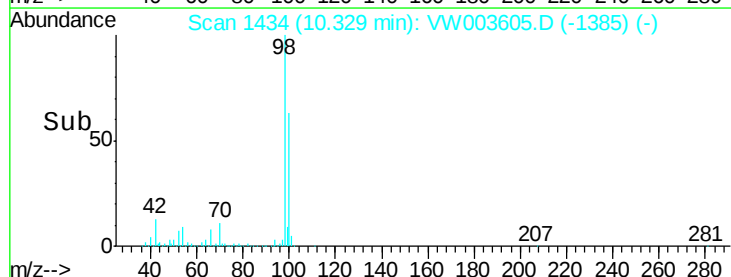
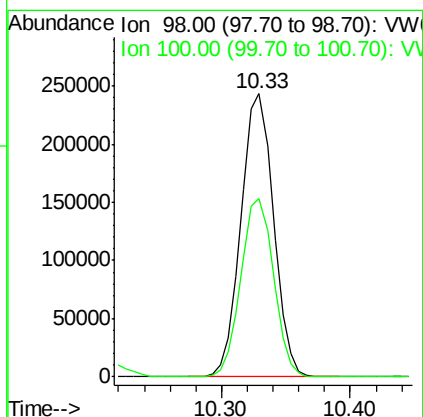
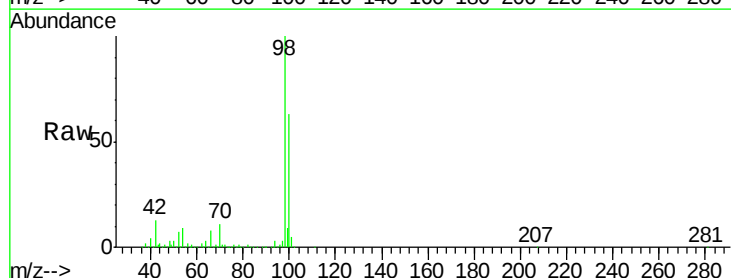
Acq: 27 Jun 2018 11:39

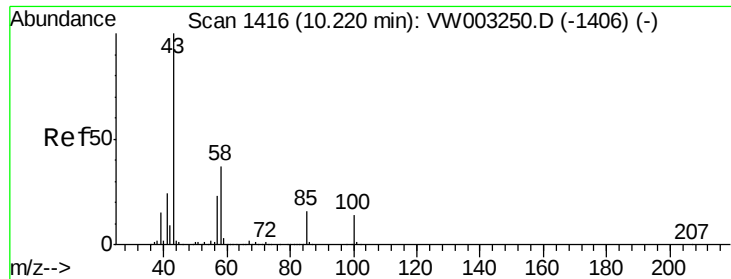
Tgt Ion: 98 Resp: 424433

Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2





#51

4-Methyl-2-Pentanone

Concen: 96.39 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

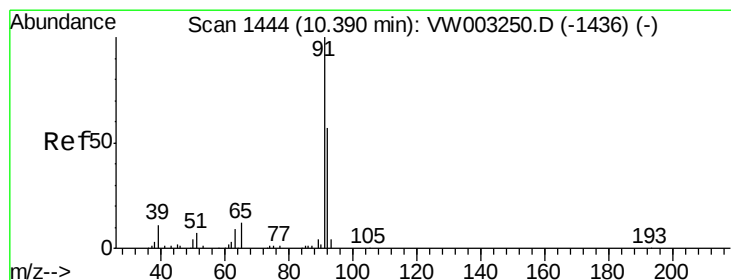
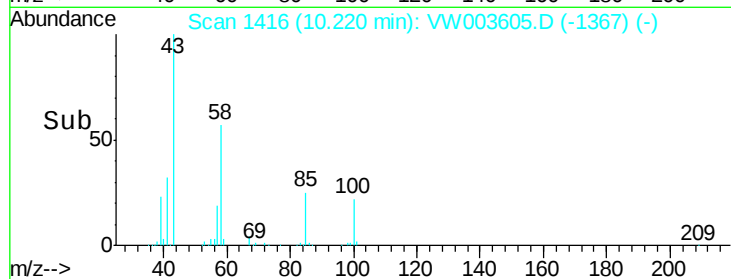
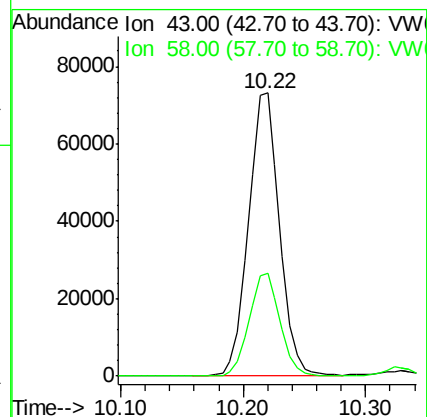
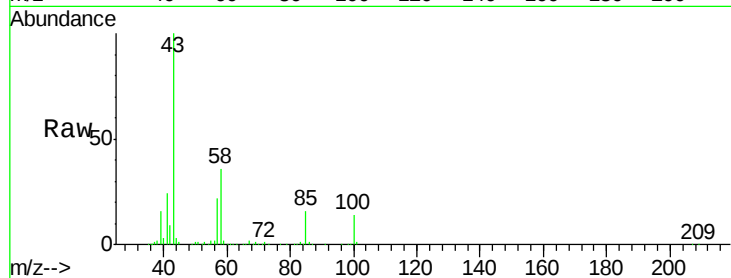
ClientSampled :

Tot Ion: 43 Resp: 129154

Ion Ratio Lower Upper

43 100

58 36.1 29.0 43.4



#52

Toluene

Concen: 21.90 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW003605.D

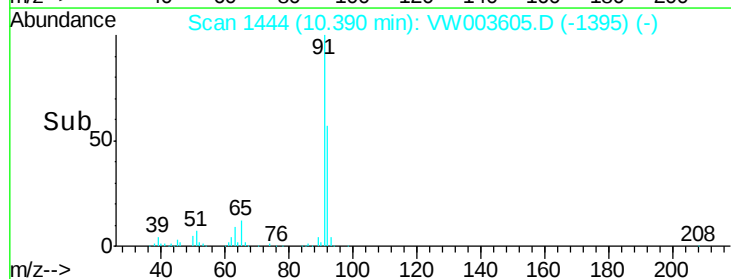
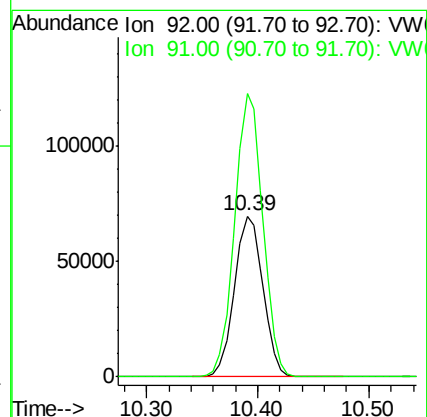
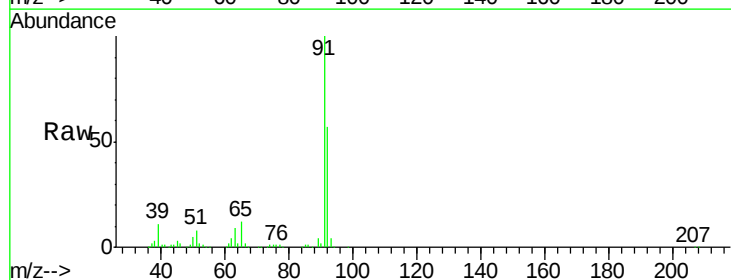
Acq: 27 Jun 2018 11:39

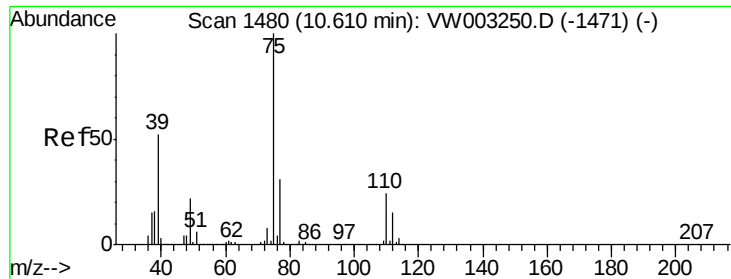
Tgt Ion: 92 Resp: 123743

Ion Ratio Lower Upper

92 100

91 173.6 141.1 211.7





#53

t-1,3-Dichloropropene

Concen: 20.36 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

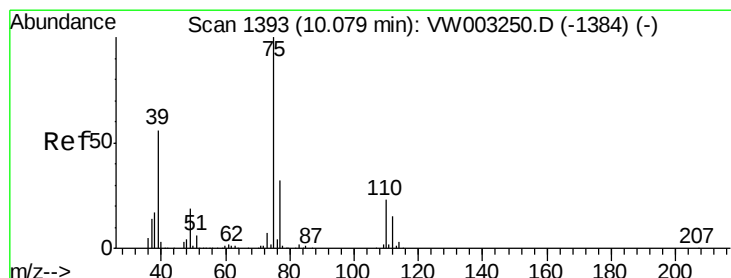
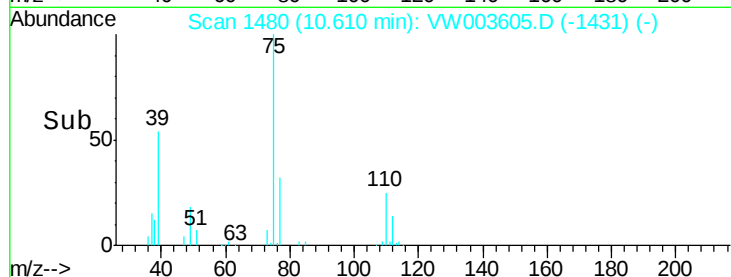
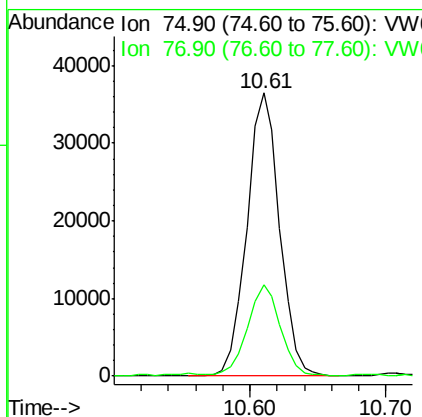
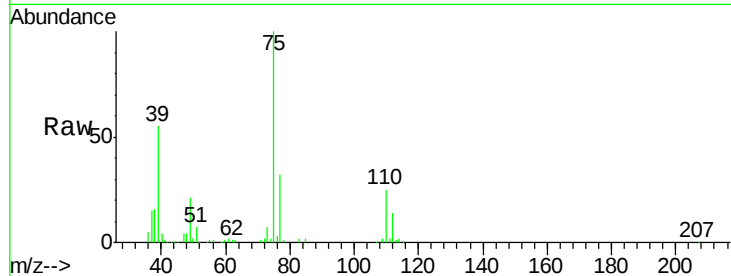
ClientSampleId :

Tot Ion: 75 Resp: 61246

Ion Ratio Lower Upper

75 100

77 32.0 24.9 37.3



#54

cis-1,3-Dichloropropene

Concen: 20.79 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

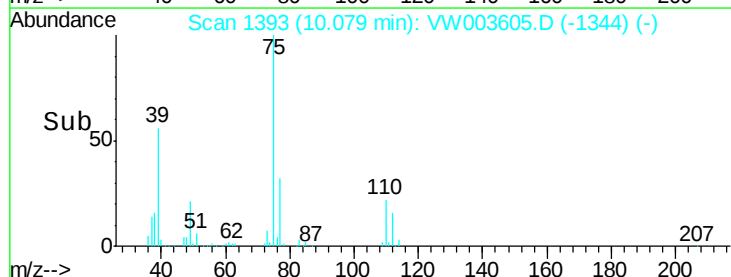
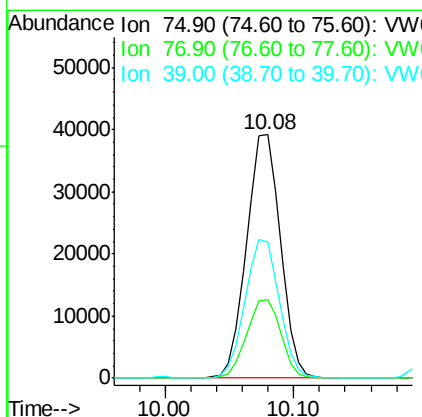
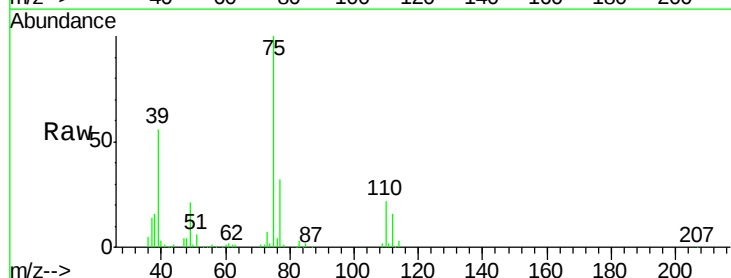
Tgt Ion: 75 Resp: 71180

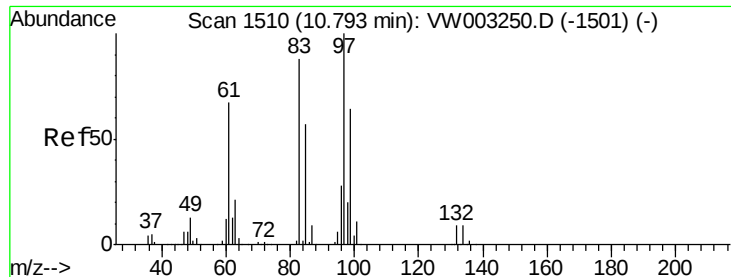
Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.6

39 55.8 45.2 67.8

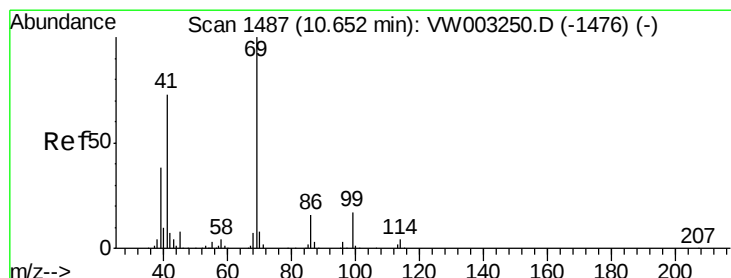
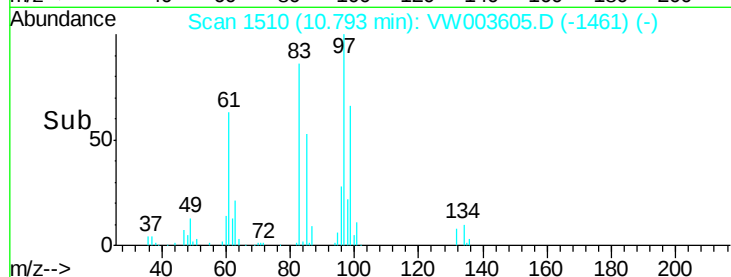
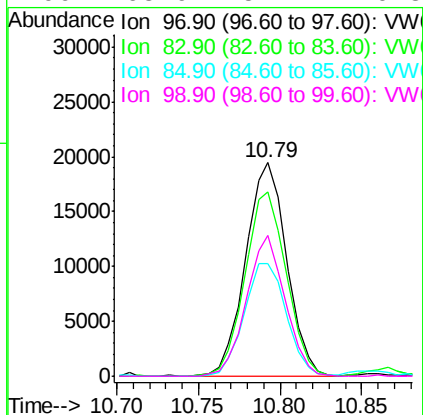
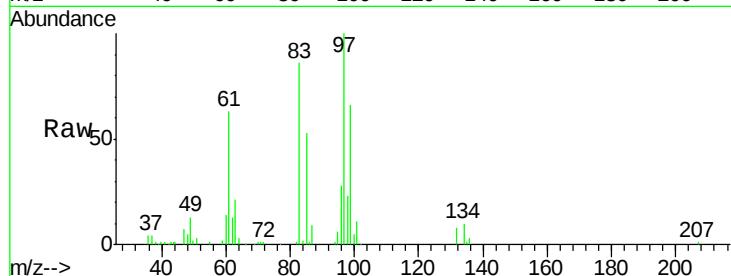




#55  
 1,1,2-Trichloroethane  
 Concen: 21.05 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

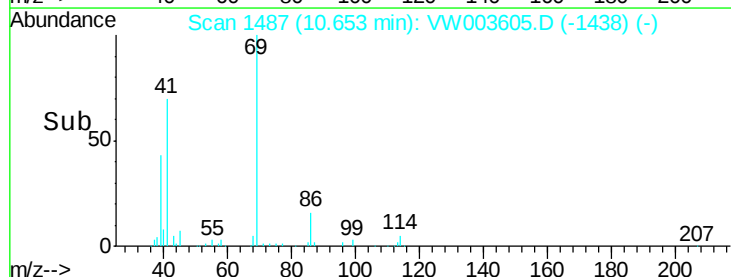
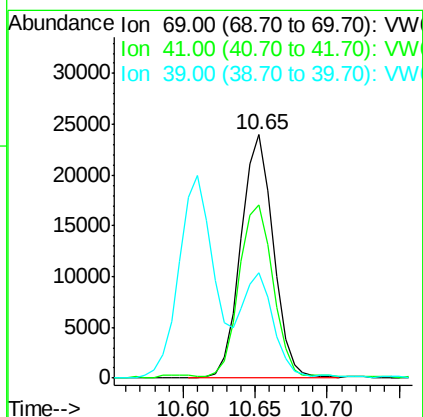
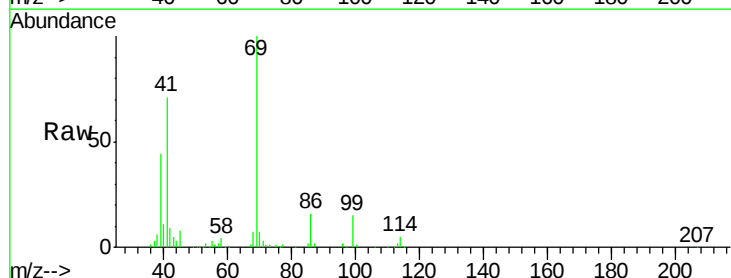
Instrument :  
 MSVOA\_W  
 ClientSampleId :

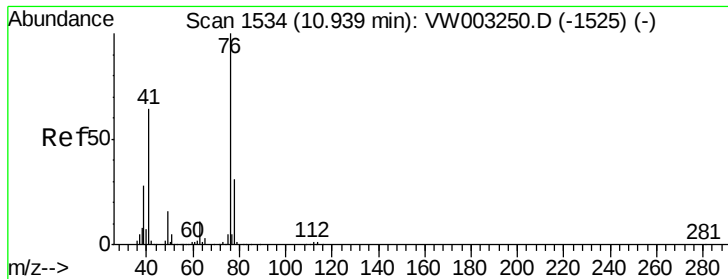
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 34067 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.2  | 70.2  | 105.2 |
| 85       | 52.8  | 45.6  | 68.4  |
| 99       | 65.9  | 51.2  | 76.8  |



#56  
 Ethyl methacrylate  
 Concen: 19.10 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 37549 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 74.5  | 57.8  | 86.6  |
| 39       | 40.8  | 32.7  | 49.1  |

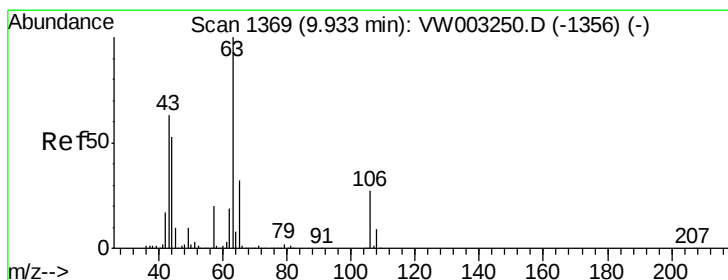
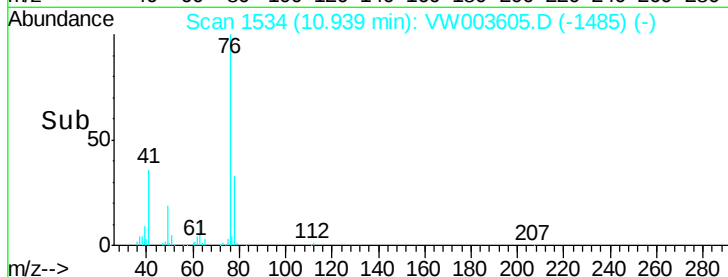
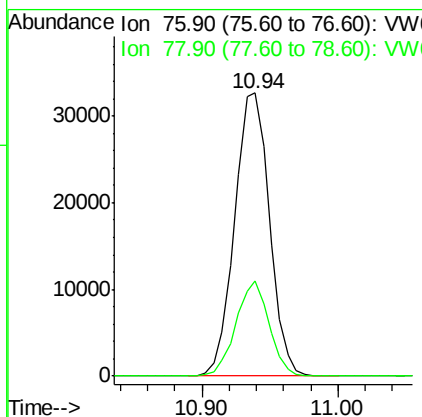
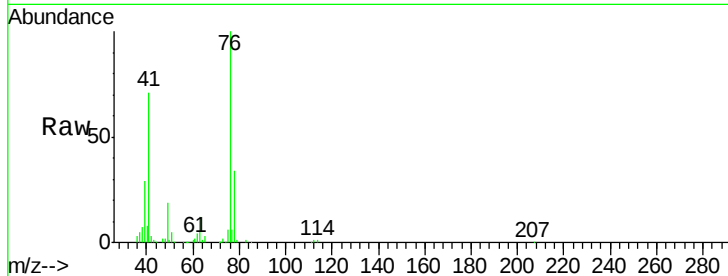




#57  
 1,3-Dichloropropane  
 Concen: 20.95 ug/l  
 RT: 10.94 min Scan# 1534  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

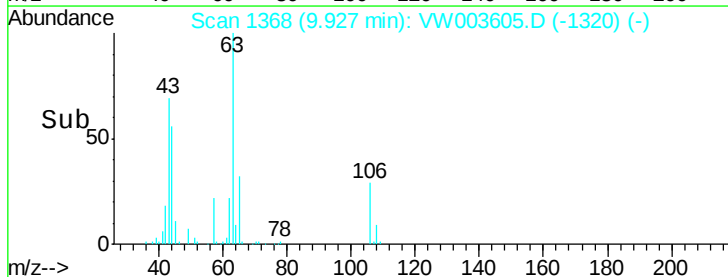
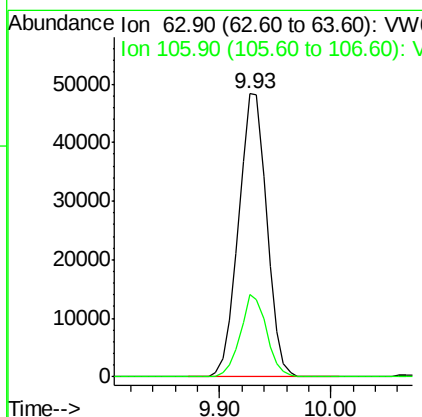
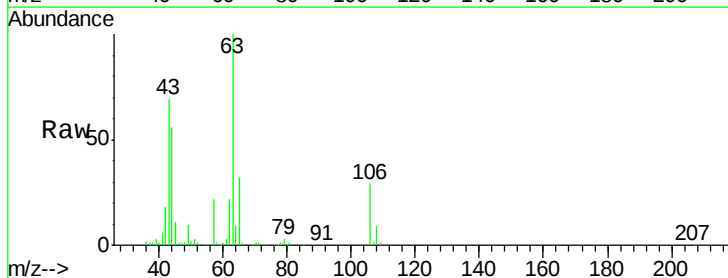
Instrument :  
 MSVOA\_W  
 ClientSampled :

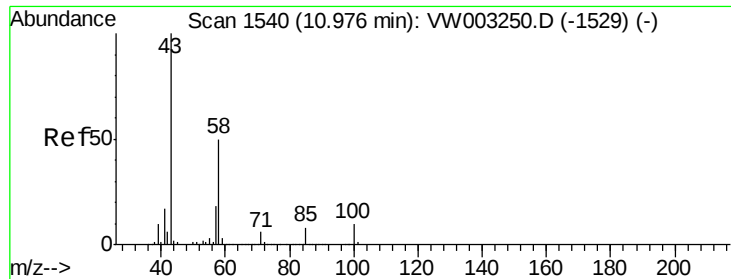
Tot Ion: 76 Resp: 58478  
 Ion Ratio Lower Upper  
 76 100  
 78 31.9 25.7 38.5



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 96.67 ug/l  
 RT: 9.93 min Scan# 1368  
 Delta R.T. -0.01 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 63 Resp: 85180  
 Ion Ratio Lower Upper  
 63 100  
 106 27.0 21.8 32.8

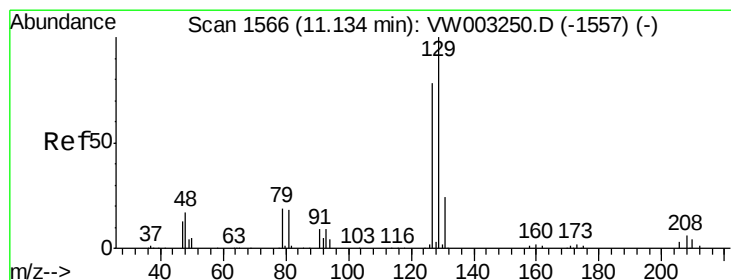
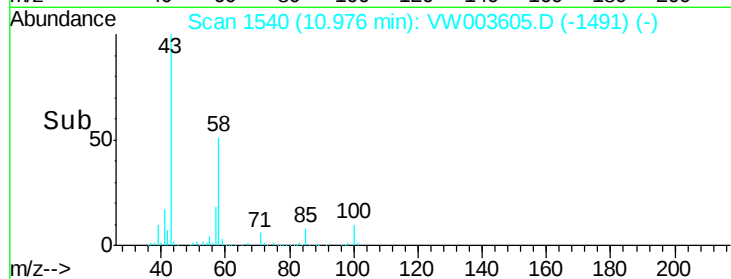
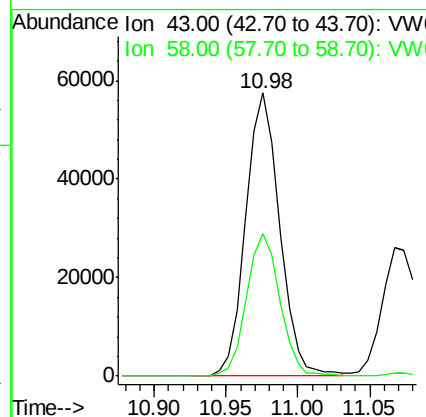
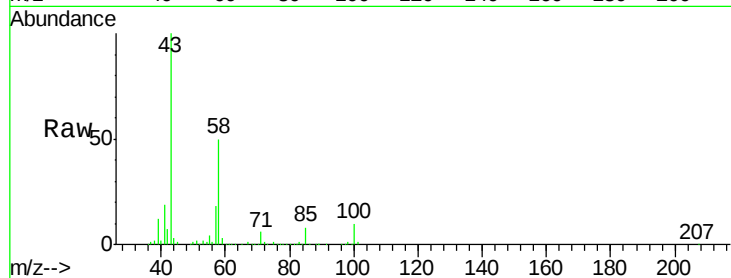




#59  
2-Hexanone  
Concen: 100.24 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

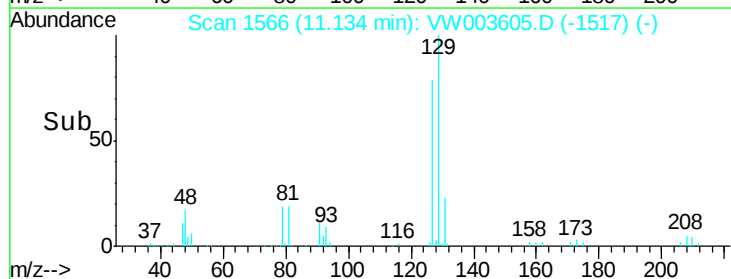
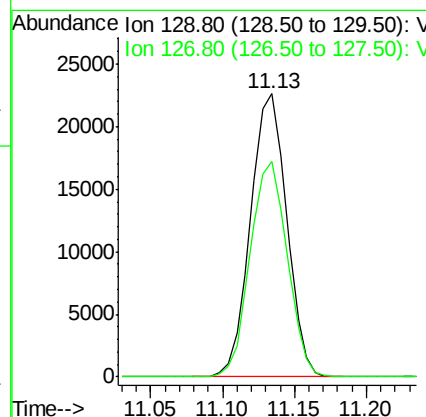
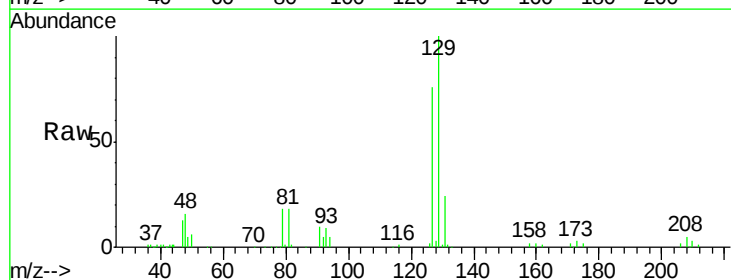
Instrument :  
MSVOA\_W  
ClientSampleId :

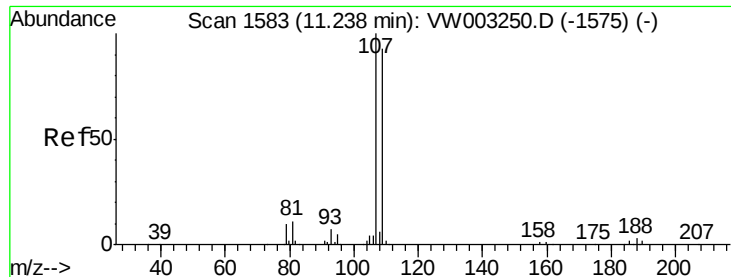
Tot Ion: 43 Resp: 93827  
Ion Ratio Lower Upper  
43 100  
58 49.3 25.0 75.0



#60  
Dibromochloromethane  
Concen: 20.45 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 129 Resp: 39366  
Ion Ratio Lower Upper  
129 100  
127 77.9 39.1 117.5

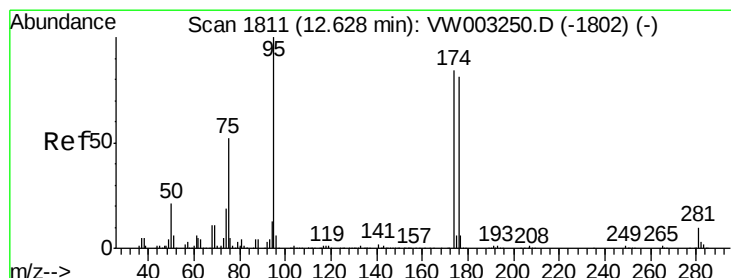
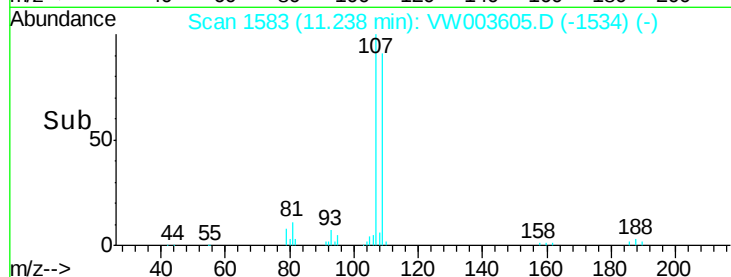
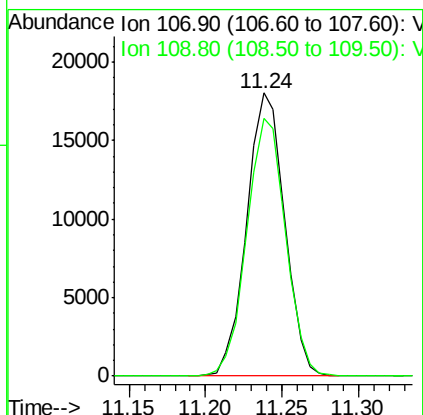
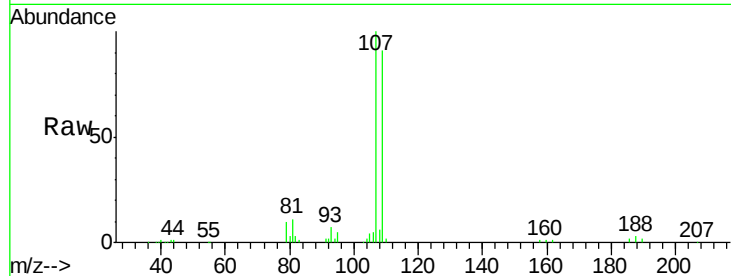




#61  
 1,2-Dibromoethane  
 Concen: 20.35 ug/l  
 RT: 11.24 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

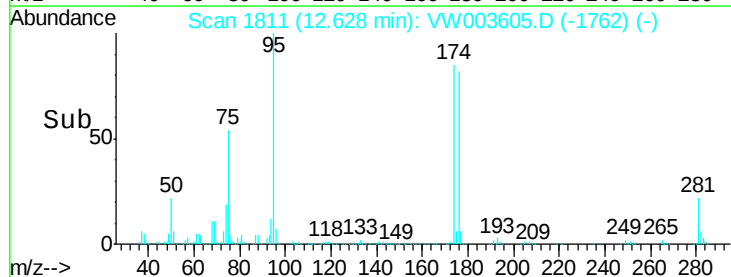
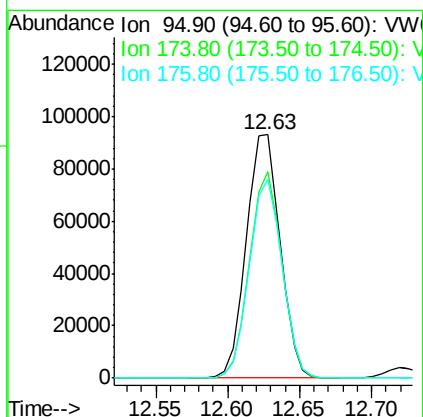
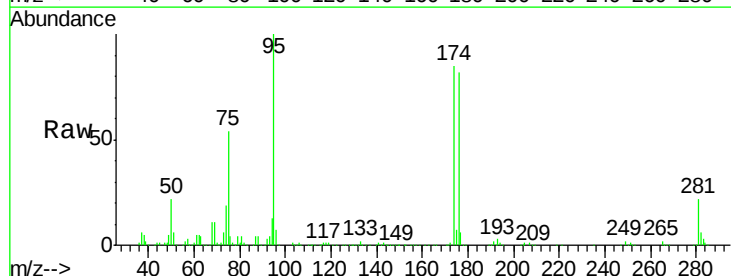
Instrument :  
 MSVOA\_W  
 ClientSampleId :

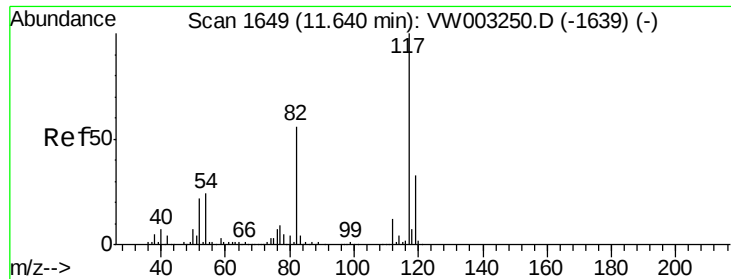
Tot Ion: 107 Resp: 31156  
 Ion Ratio Lower Upper  
 107 100  
 109 93.0 75.8 113.6



#62  
 4-Bromofluorobenzene  
 Concen: 52.25 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 95 Resp: 150794  
 Ion Ratio Lower Upper  
 95 100  
 174 81.6 0.0 166.4  
 176 79.3 0.0 162.0

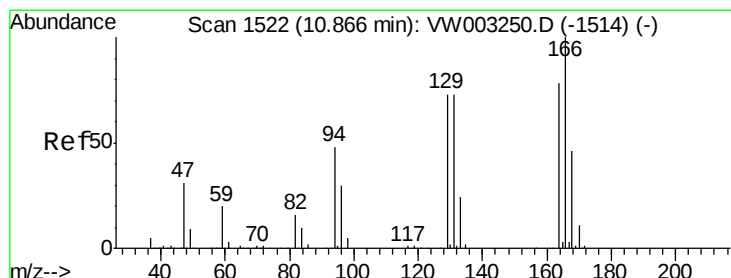
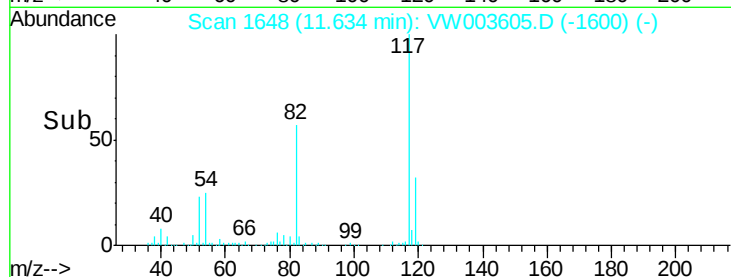
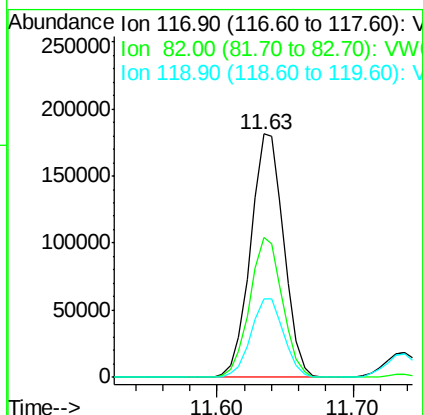
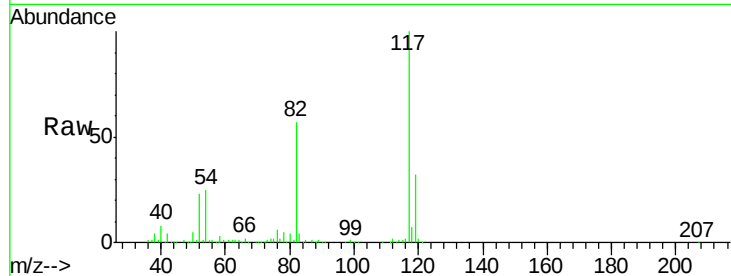




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

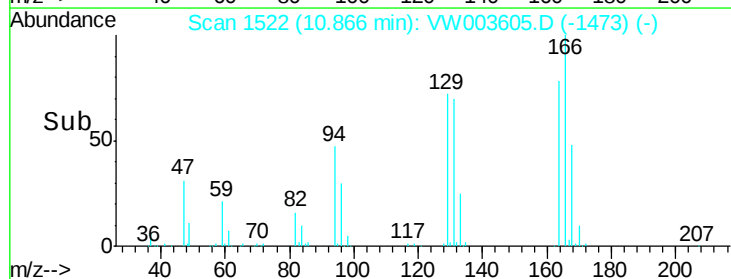
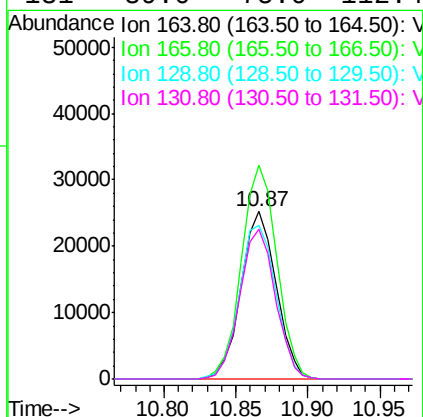
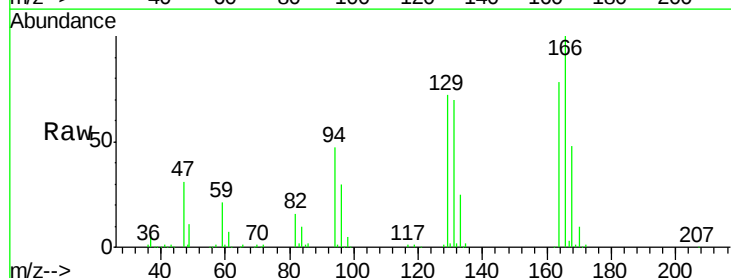
Instrument :  
MSVOA\_W  
ClientSampleId :

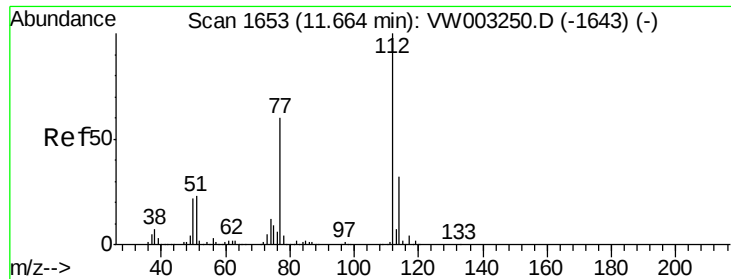
Tot Ion:117 Resp: 310153  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.6 67.0  
119 32.5 26.7 40.1



#64  
Tetrachloroethene  
Concen: 20.56 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion:164 Resp: 42655  
Ion Ratio Lower Upper  
164 100  
166 127.4 102.6 154.0  
129 91.6 75.2 112.8  
131 89.0 75.0 112.4





#65

Chlorobenzene

Concen: 20.81 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

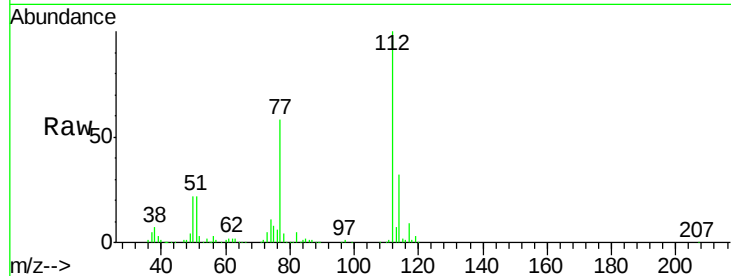
ClientSampleId :

Tot Ion:112 Resp: 134373

Ion Ratio Lower Upper

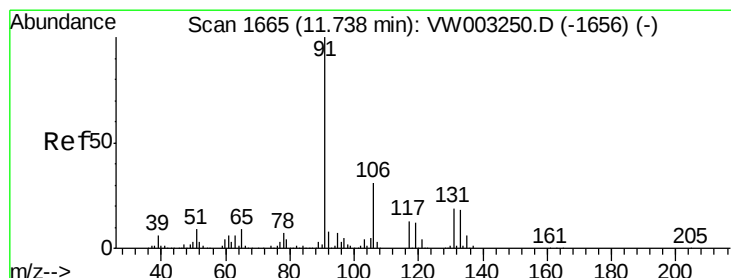
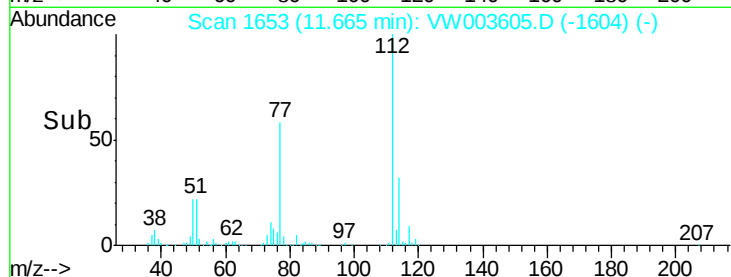
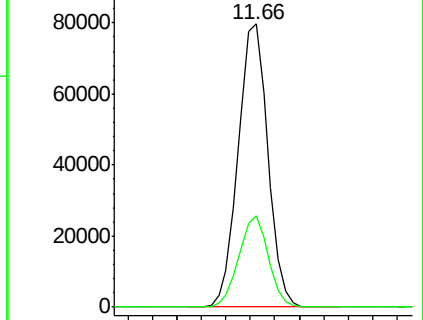
112 100

114 32.1 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.07 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

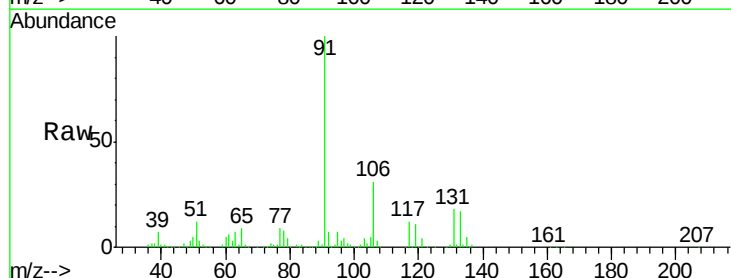
Tgt Ion:131 Resp: 47831

Ion Ratio Lower Upper

131 100

133 90.5 47.3 142.0

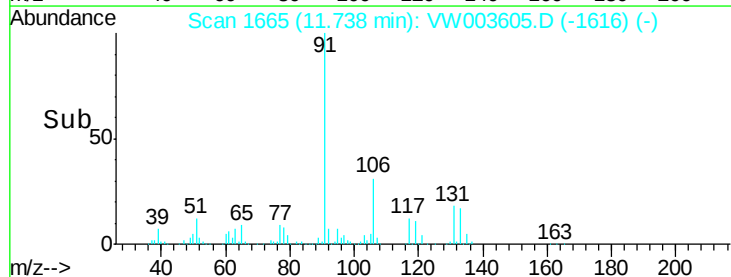
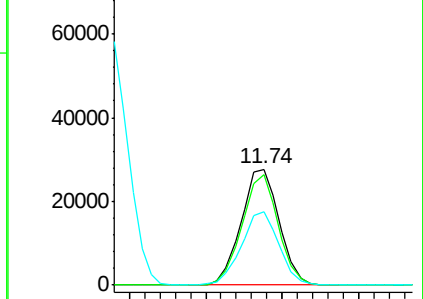
119 62.1 32.5 97.4

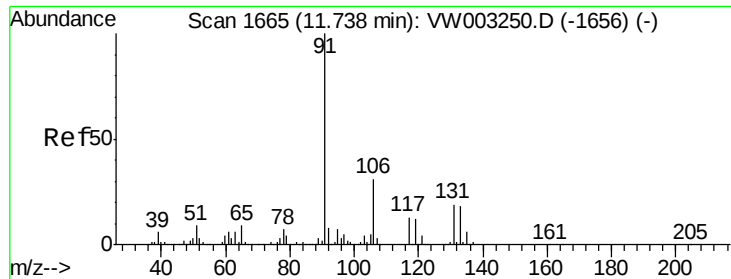


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

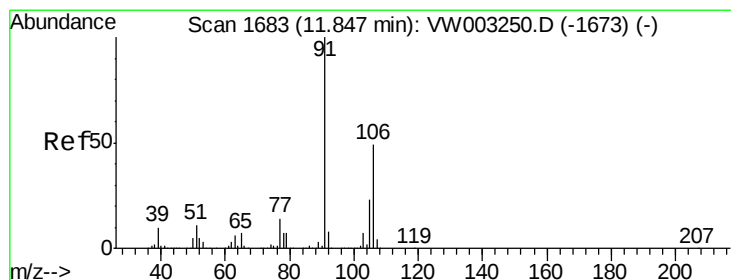
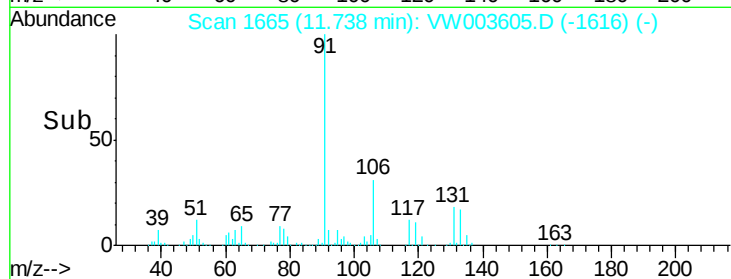
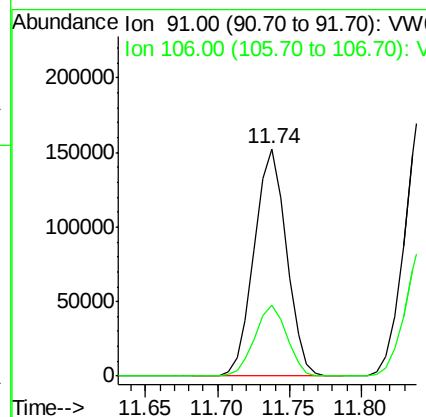
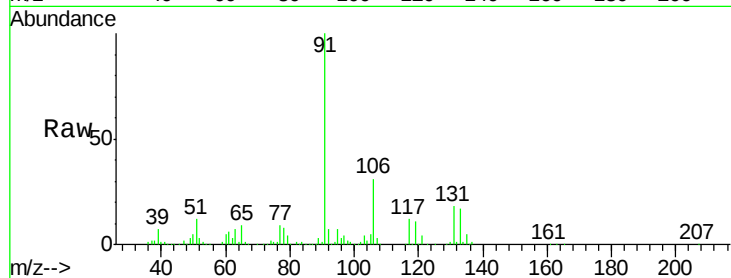




#67  
Ethyl Benzene  
Concen: 20.65 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

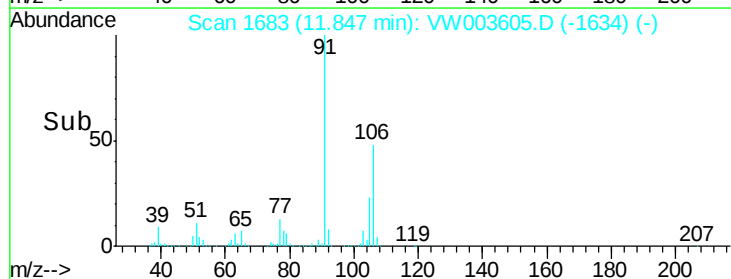
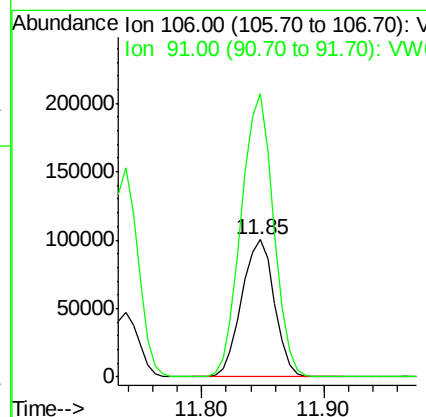
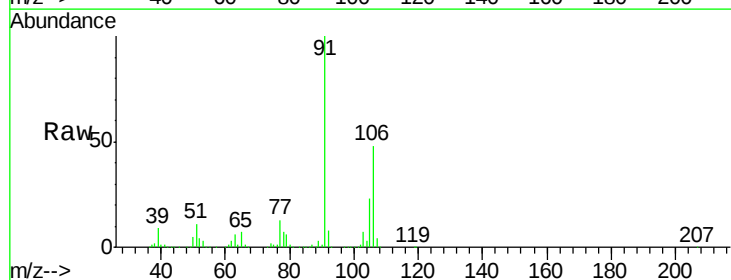
Instrument :  
MSVOA\_W  
ClientSampled :

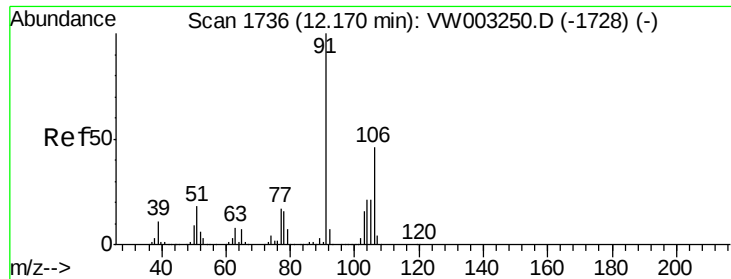
Tot Ion: 91 Resp: 236366  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.7 37.1



#68  
m/p-Xylenes  
Concen: 42.75 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion: 106 Resp: 186065  
Ion Ratio Lower Upper  
106 100  
91 204.0 165.4 248.0

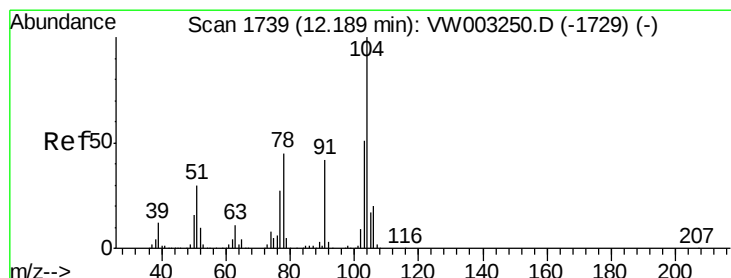
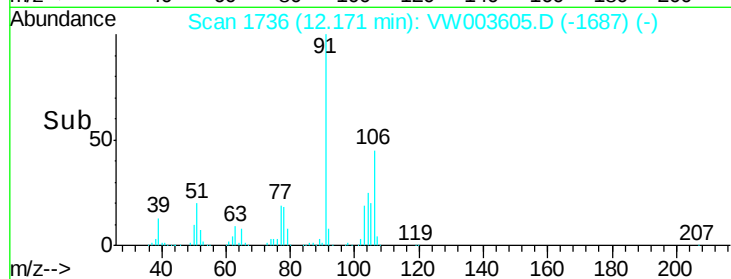
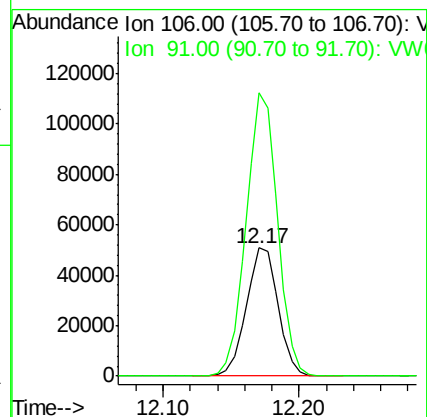
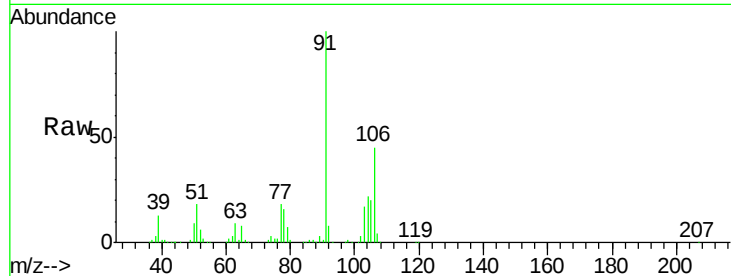




#69  
o-Xylene  
Concen: 20.62 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

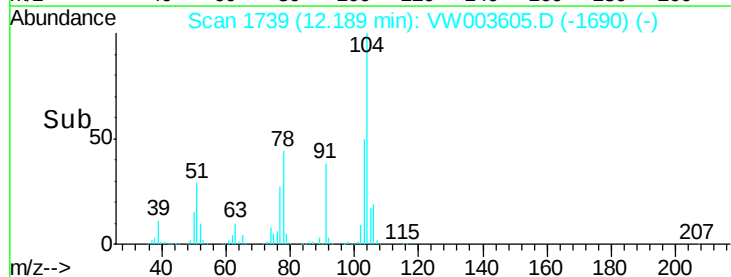
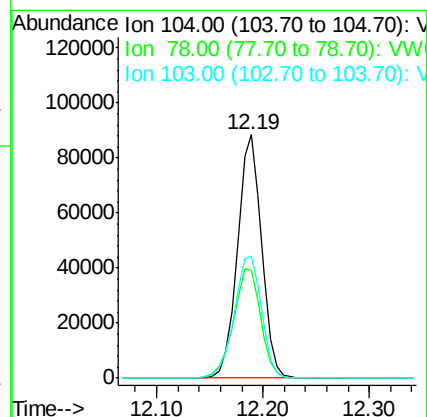
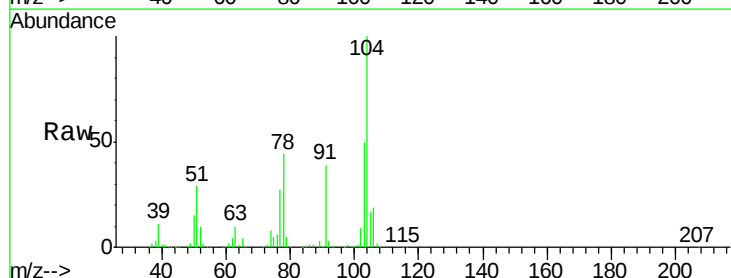
Instrument :  
MSVOA\_W  
ClientSampleId :

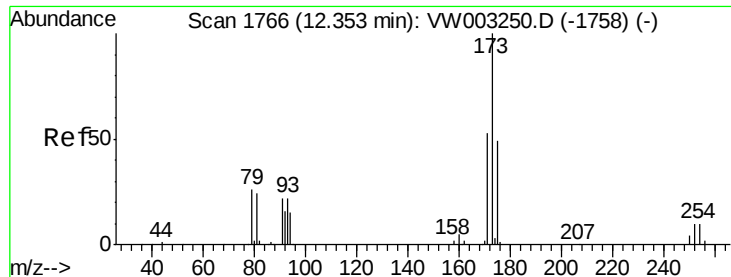
Tot Ion:106 Resp: 83156  
Ion Ratio Lower Upper  
106 100  
91 218.5 108.6 325.6



#70  
Styrene  
Concen: 20.98 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion:104 Resp: 140847  
Ion Ratio Lower Upper  
104 100  
78 50.9 41.3 61.9  
103 56.6 45.0 67.4





#71

Bromoform

Concen: 19.25 ug/l

RT: 12.35 min Scan# 1766

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

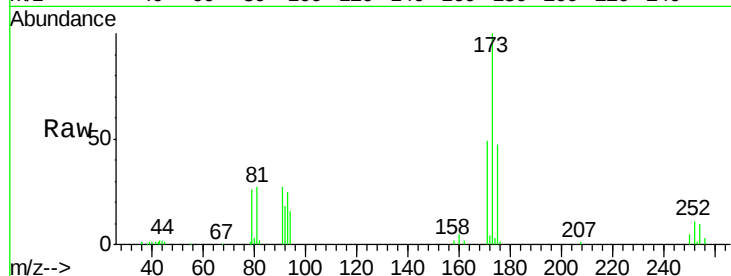
Tot Ion:173 Resp: 22643

Ion Ratio Lower Upper

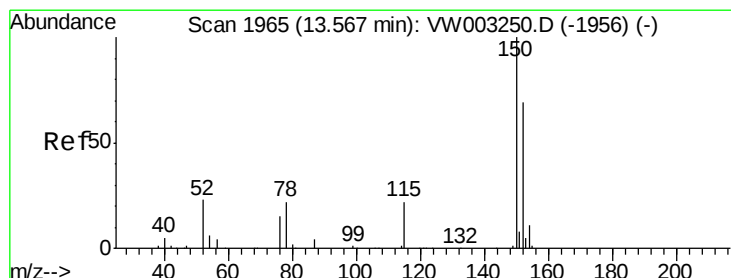
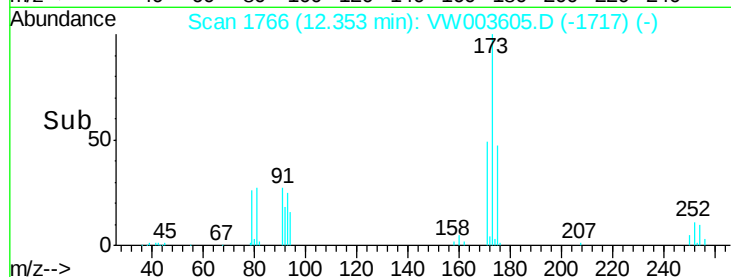
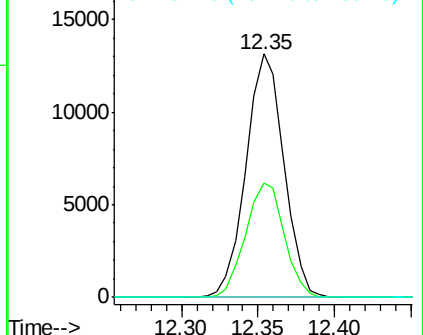
173 100

175 47.8 24.4 73.4

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

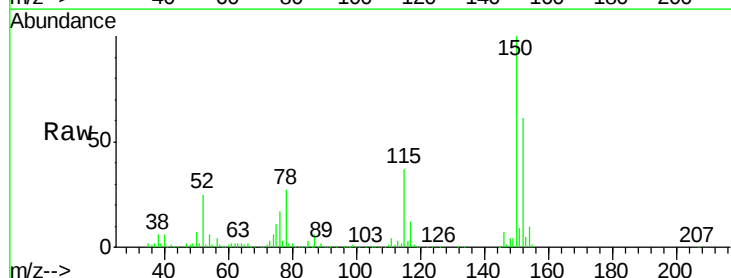
Tgt Ion:152 Resp: 165073

Ion Ratio Lower Upper

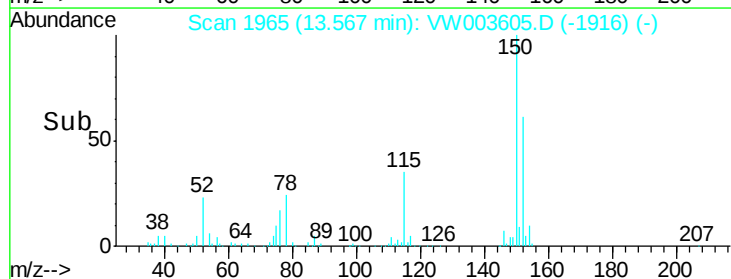
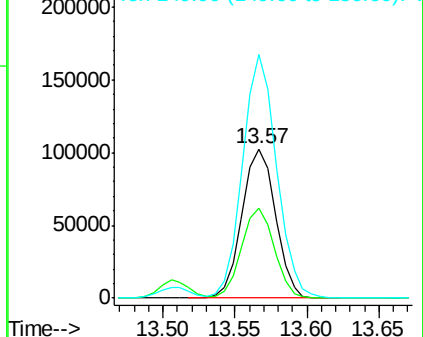
152 100

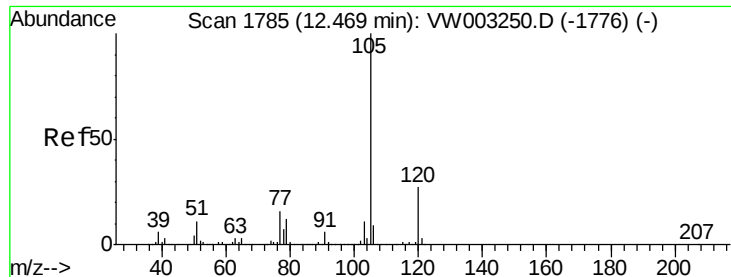
115 59.1 29.3 88.0

150 165.2 0.0 349.6



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





#73

Isopropylbenzene

Concen: 20.51 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

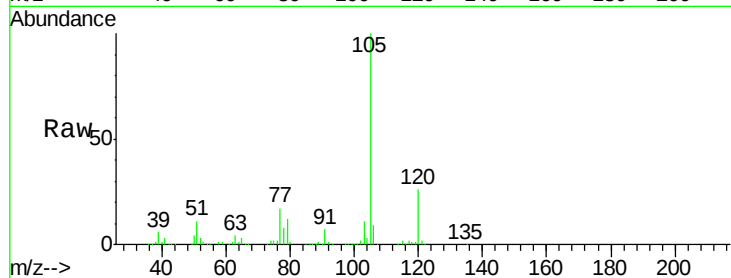
ClientSampleId :

Tot Ion:105 Resp: 235451

Ion Ratio Lower Upper

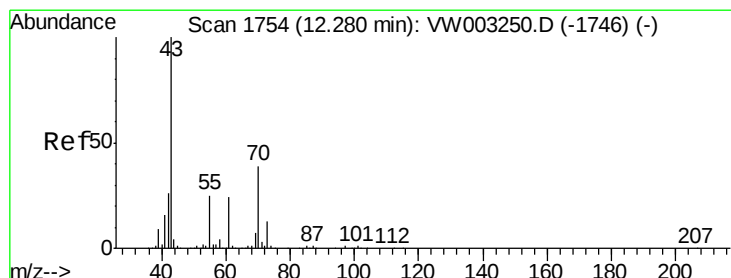
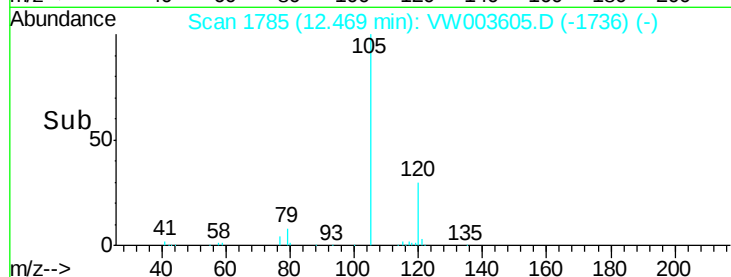
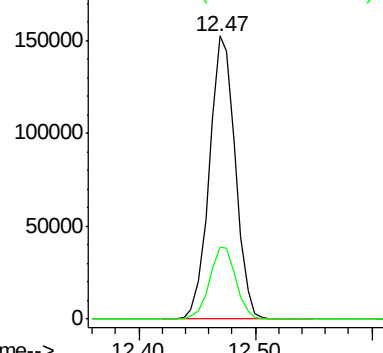
105 100

120 26.0 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.30 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Tgt Ion: 43 Resp: 47827

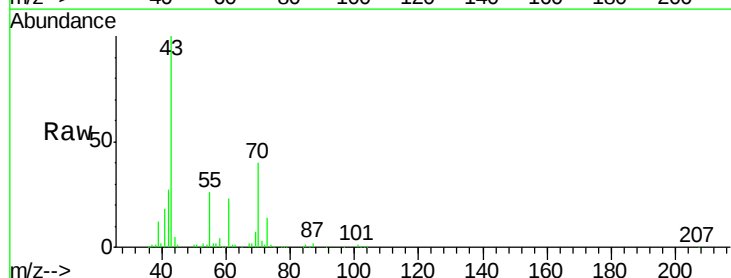
Ion Ratio Lower Upper

43 100

70 39.2 31.0 46.6

55 27.6 19.7 29.5

61 22.9 18.1 27.1

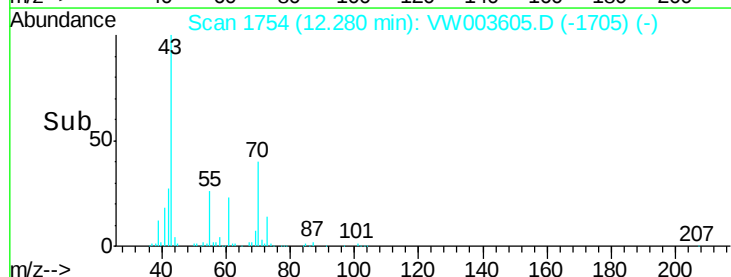
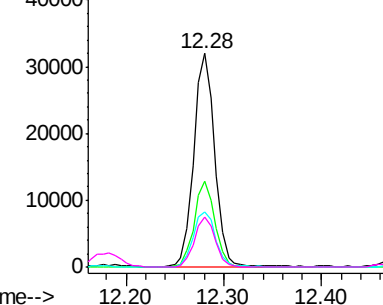


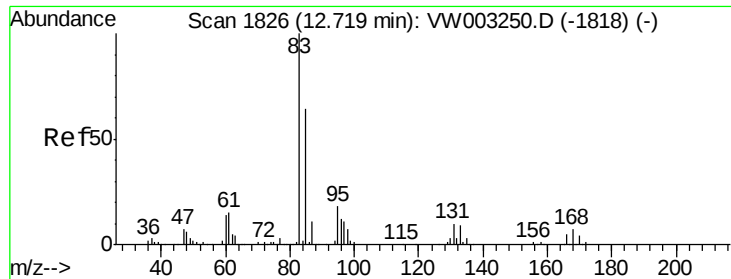
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 19.78 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampled :

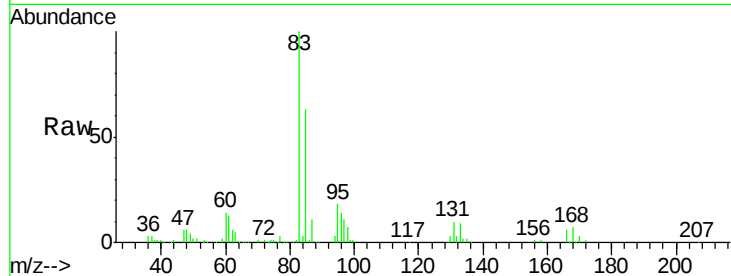
Tot Ion: 83 Resp: 38419

Ion Ratio Lower Upper

83 100

131 10.7 5.4 16.2

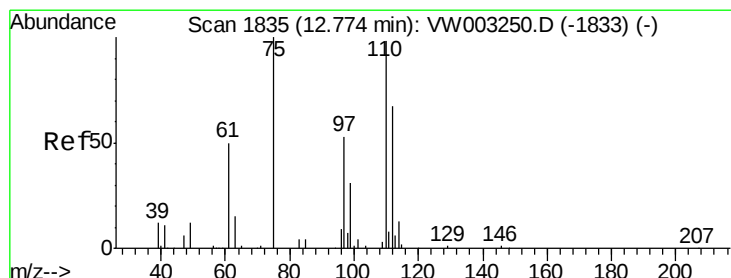
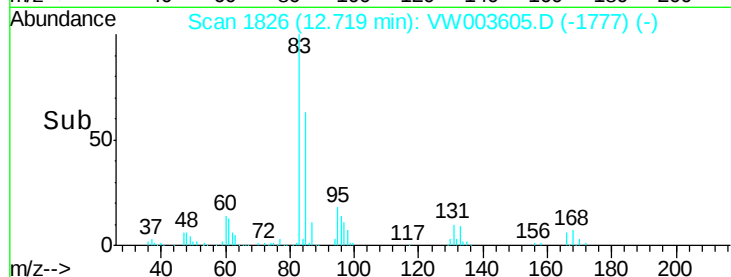
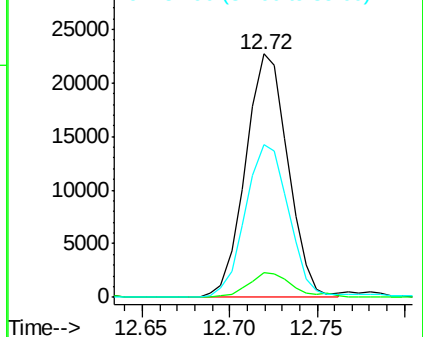
85 64.2 31.9 95.7



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: 36.62 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VW003605.D

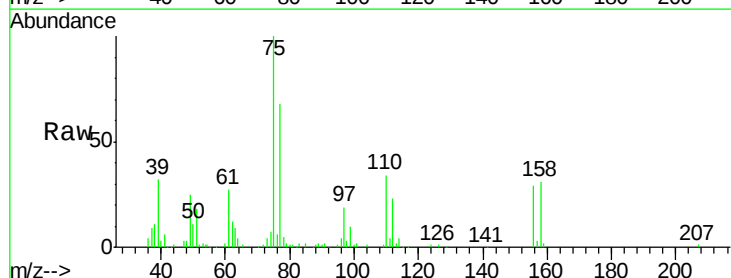
Acq: 27 Jun 2018 11:39

Tgt Ion: 75 Resp: 51677

Ion Ratio Lower Upper

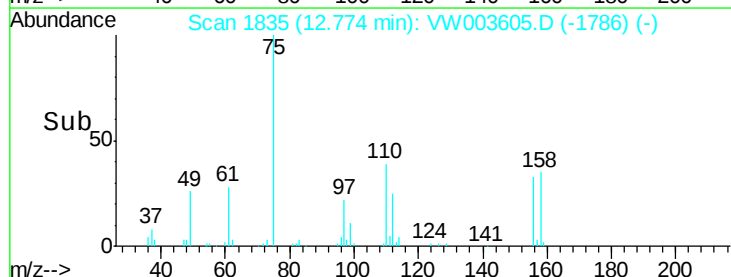
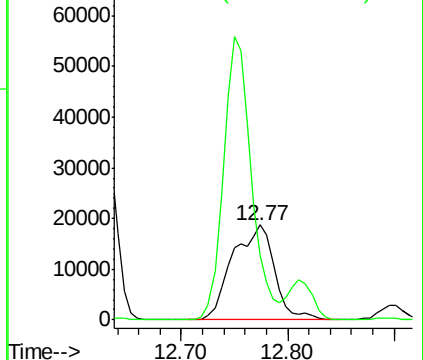
75 100

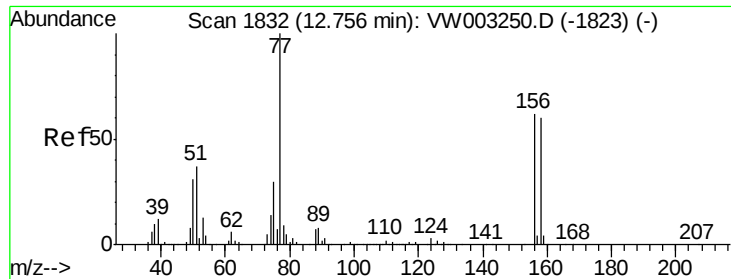
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.23 ug/l

RT: 12.76 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

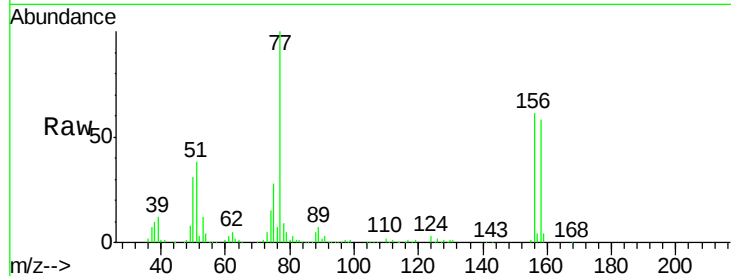
Tot Ion:156 Resp: 54087

Ion Ratio Lower Upper

156 100

77 189.4 92.3 276.9

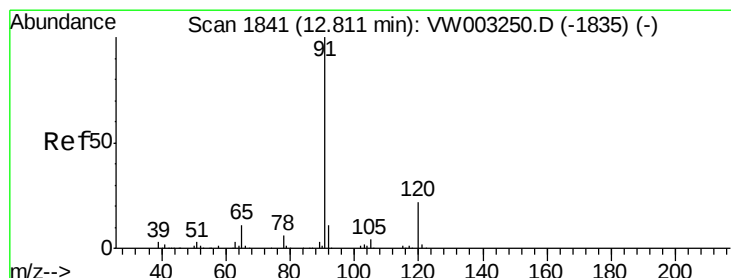
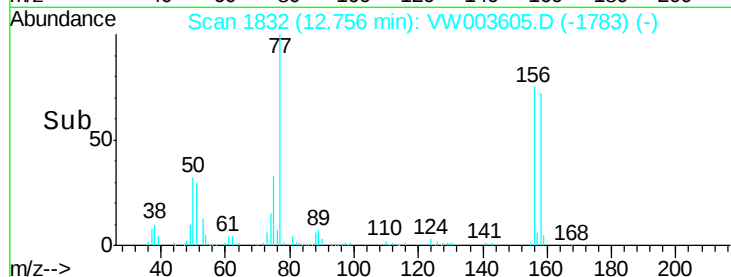
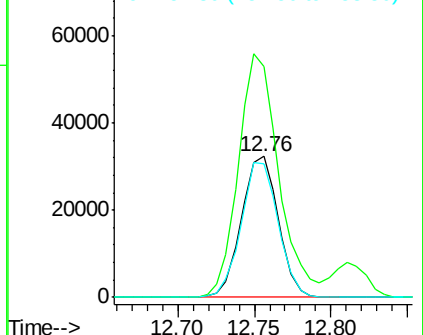
158 96.7 47.5 142.6



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: 21.08 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VW003605.D

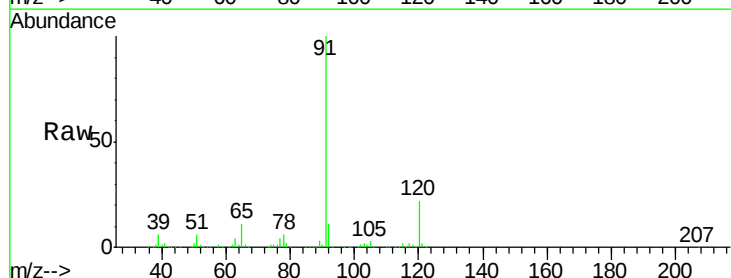
Acq: 27 Jun 2018 11:39

Tgt Ion: 91 Resp: 296305

Ion Ratio Lower Upper

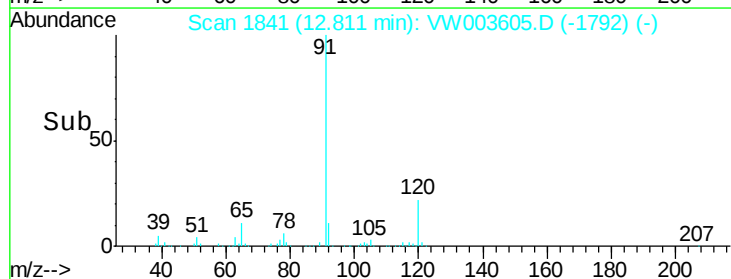
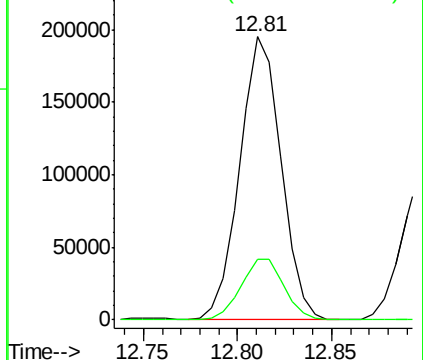
91 100

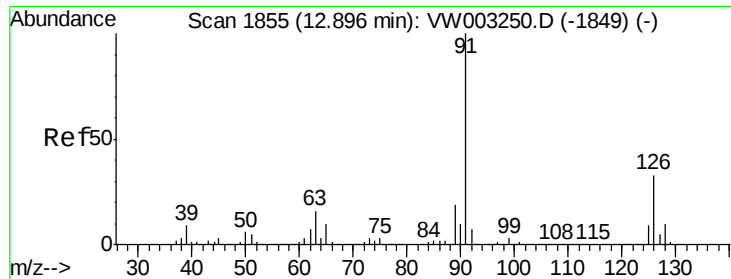
120 22.5 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

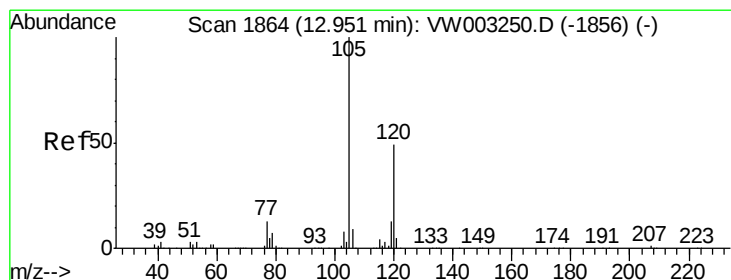
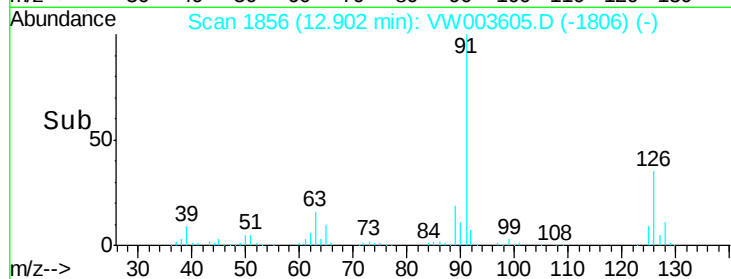
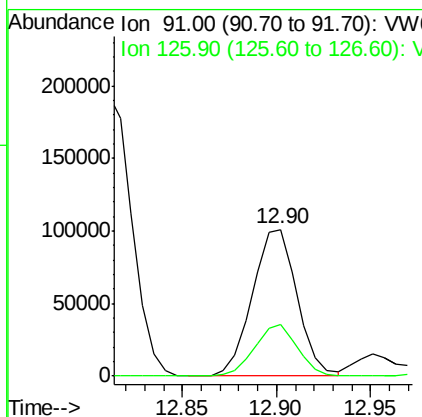
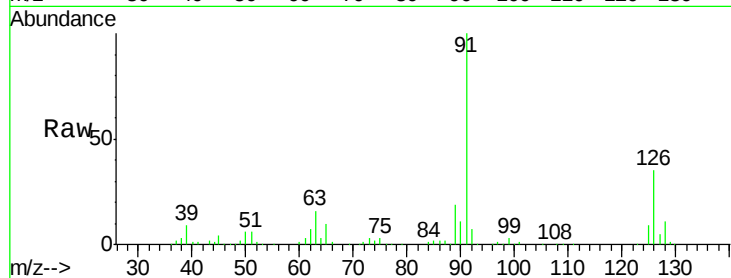




#79  
 2-Chlorotoluene  
 Concen: 20.91 ug/l  
 RT: 12.90 min Scan# 1856  
 Delta R.T. 0.01 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

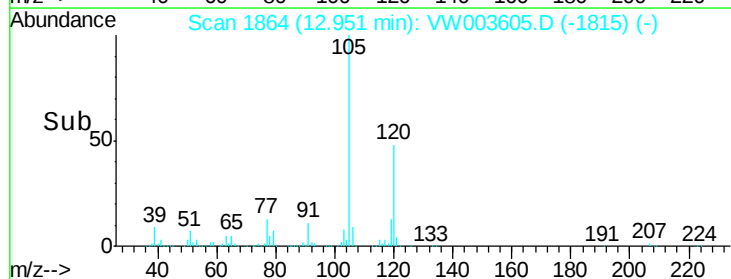
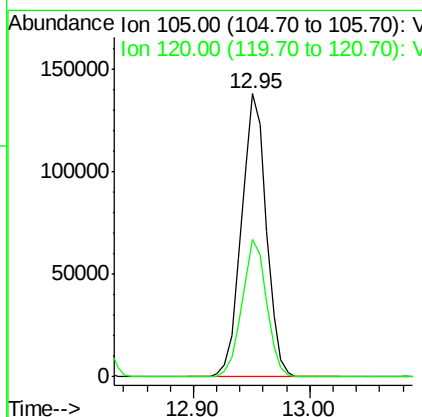
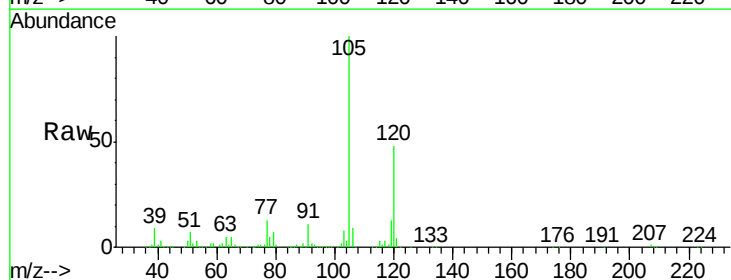
Instrument :  
 MSVOA\_W  
 ClientSampled :

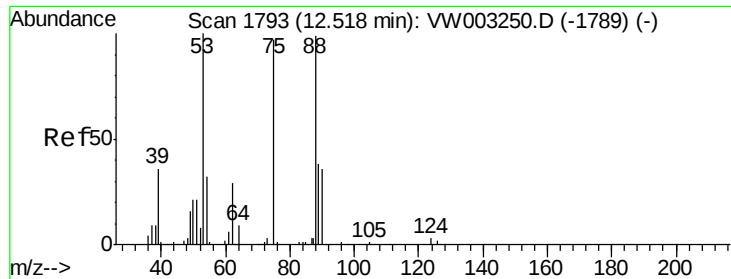
Tot Ion: 91 Resp: 166117  
 Ion Ratio Lower Upper  
 91 100  
 126 33.9 16.8 50.4



#80  
 1,3,5-Trimethylbenzene  
 Concen: 21.28 ug/l  
 RT: 12.95 min Scan# 1864  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion: 105 Resp: 205059  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 18.41 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampled :

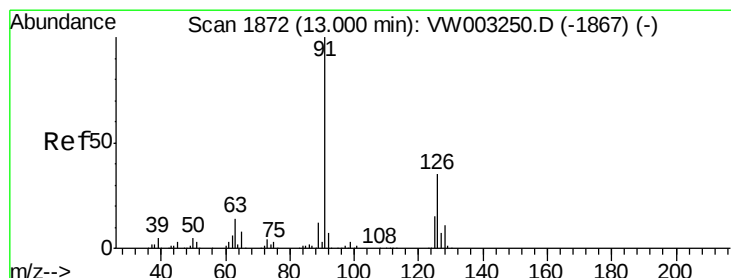
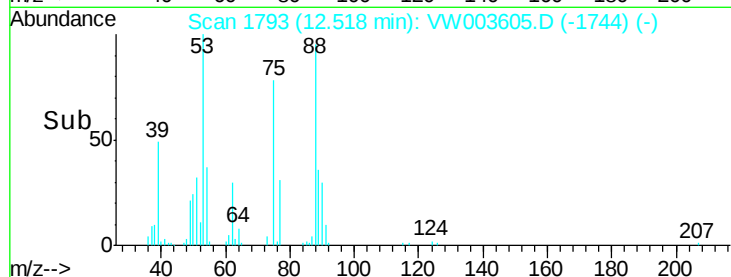
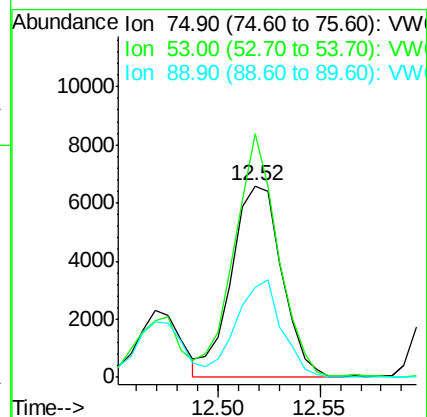
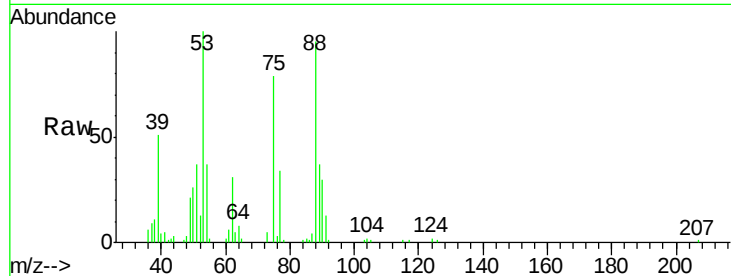
Tot Ion: 75 Resp: 11289

Ion Ratio Lower Upper

75 100

53 108.6 82.9 124.3

89 45.7 36.7 55.1



#82

4-Chlorotoluene

Concen: 21.00 ug/l

RT: 13.00 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VW003605.D

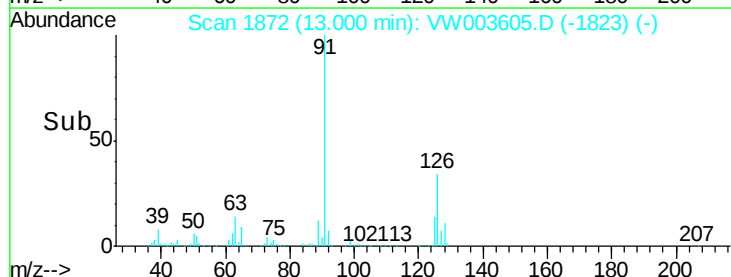
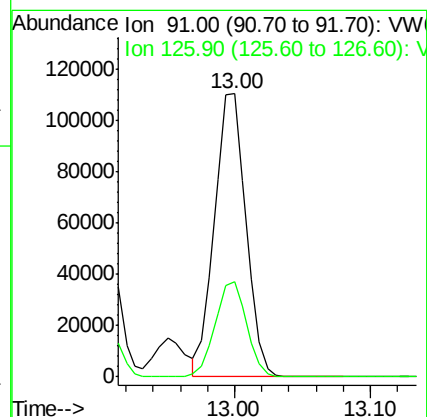
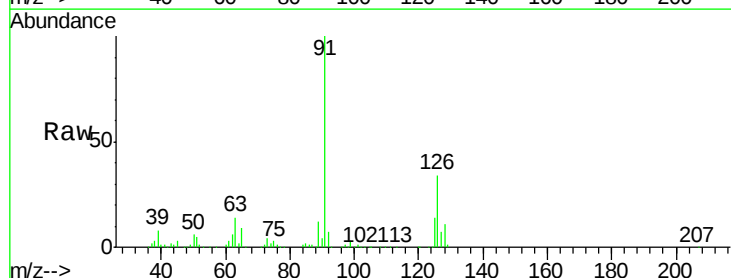
Acq: 27 Jun 2018 11:39

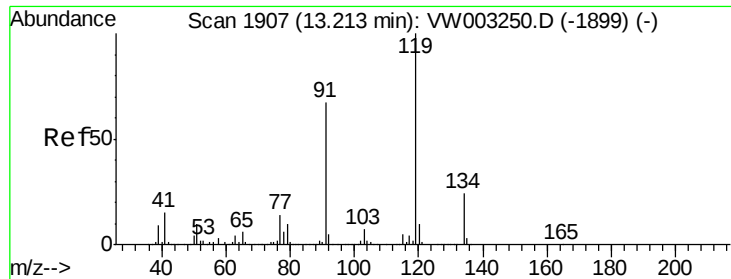
Tgt Ion: 91 Resp: 176995

Ion Ratio Lower Upper

91 100

126 33.6 16.8 50.3

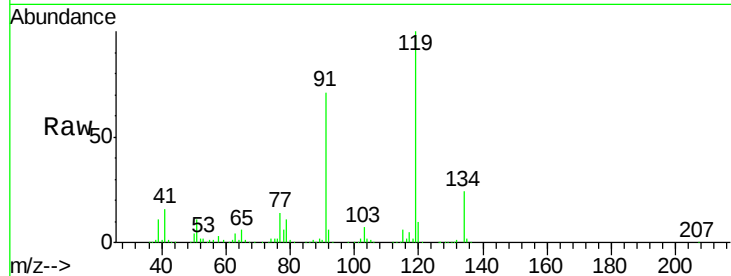




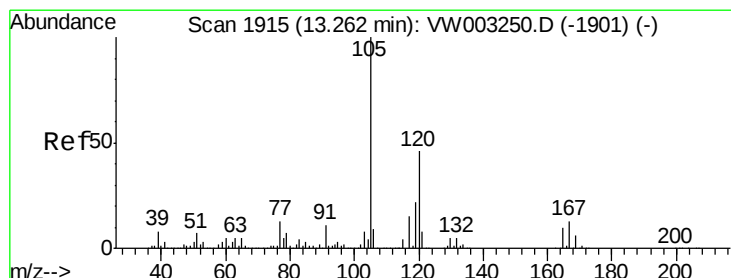
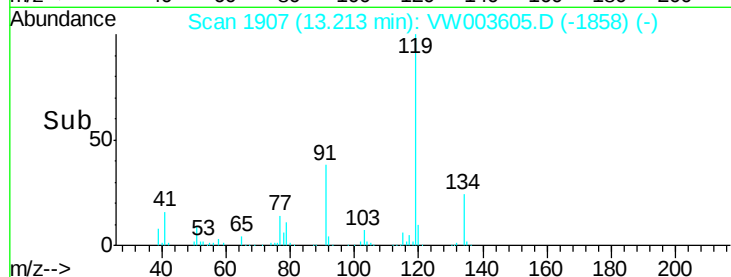
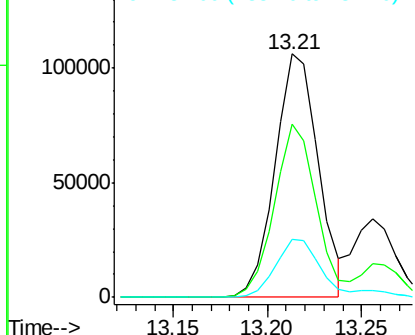
#83  
tert-Butylbenzene  
Concen: 20.52 ug/l  
RT: 13.21 min Scan# 1907  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:119 Resp: 168538  
Ion Ratio Lower Upper  
119 100  
91 69.6 33.9 101.7  
134 24.3 13.4 40.1

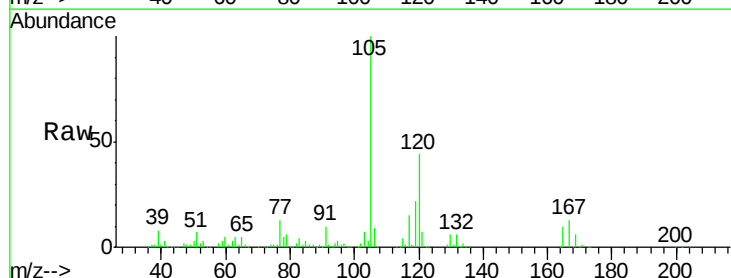


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

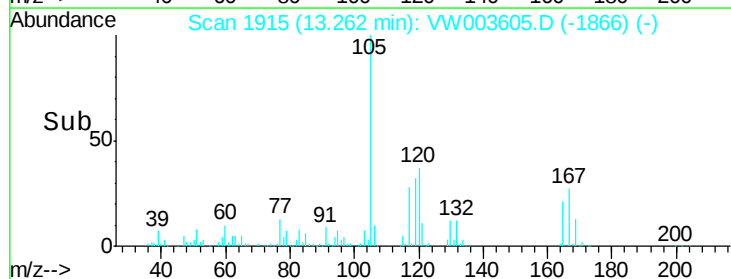
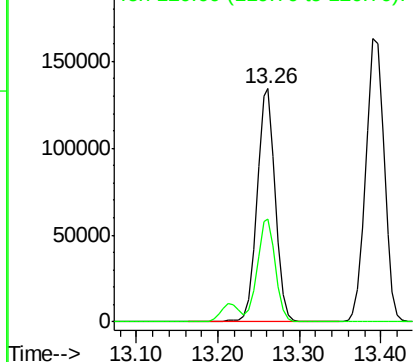


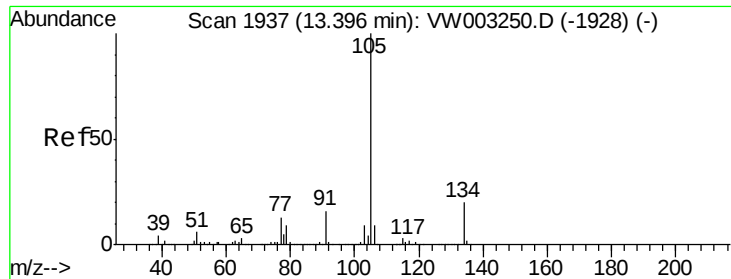
#84  
1,2,4-Trimethylbenzene  
Concen: 21.35 ug/l  
RT: 13.26 min Scan# 1915  
Delta R.T. 0.00 min  
Lab File: VW003605.D  
Acq: 27 Jun 2018 11:39

Tgt Ion:105 Resp: 211695  
Ion Ratio Lower Upper  
105 100  
120 43.8 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

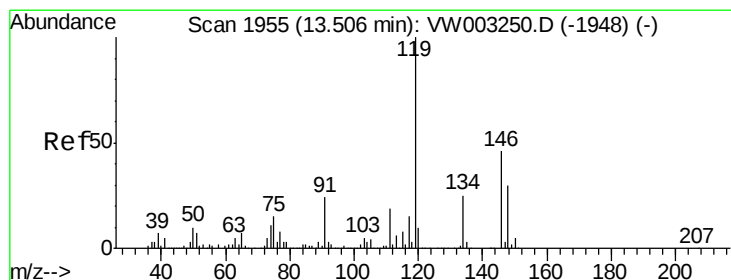
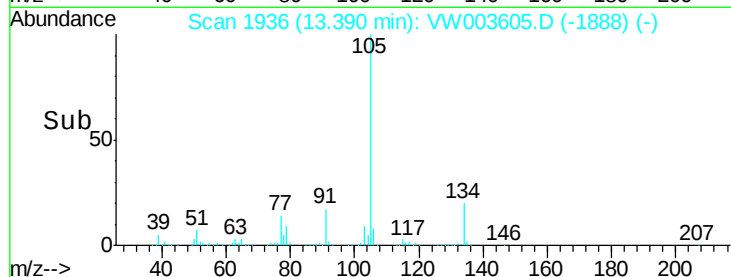
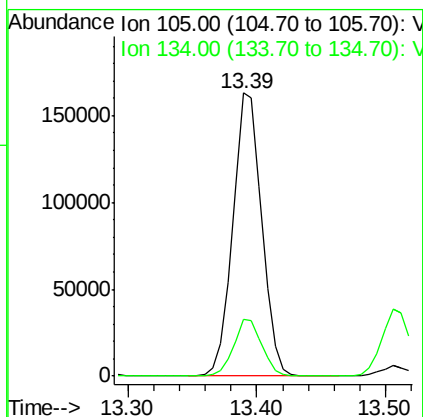
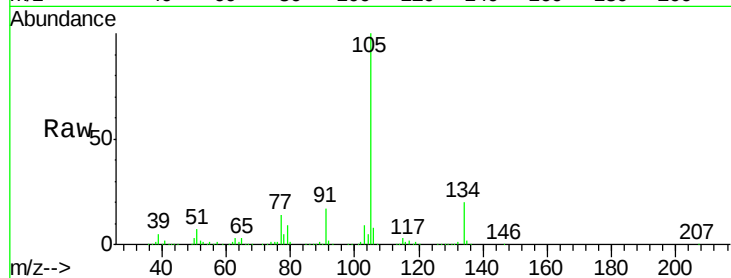




#85  
 sec-Butylbenzene  
 Concen: 20.77 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. -0.01 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

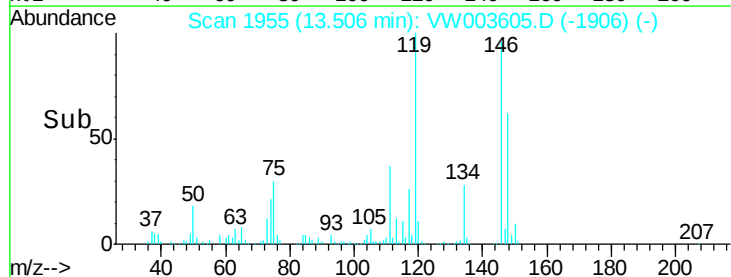
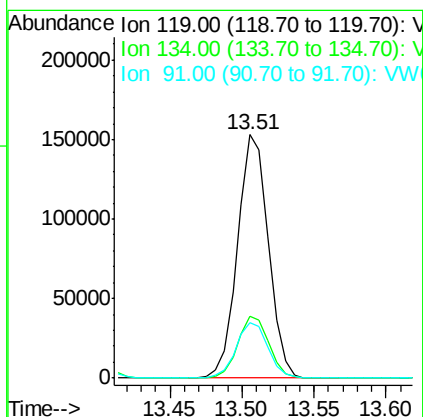
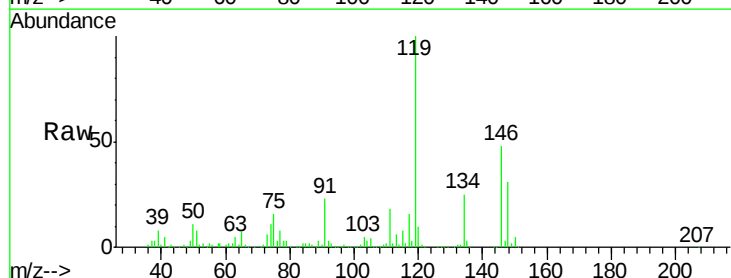
Instrument :  
 MSVOA\_W  
 ClientSampleId :

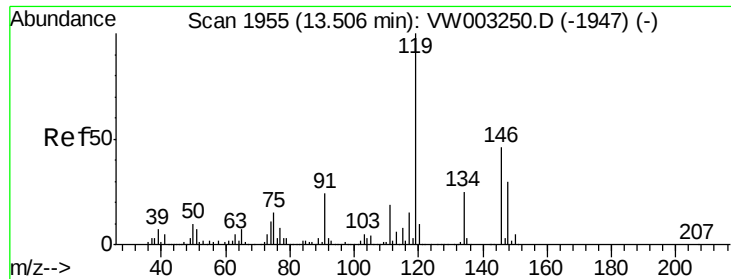
Tot Ion:105 Resp: 253554  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 9.8 29.5



#86  
 p-Isopropyltoluene  
 Concen: 21.11 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion:119 Resp: 227284  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 12.9 38.7  
 91 23.4 11.8 35.3

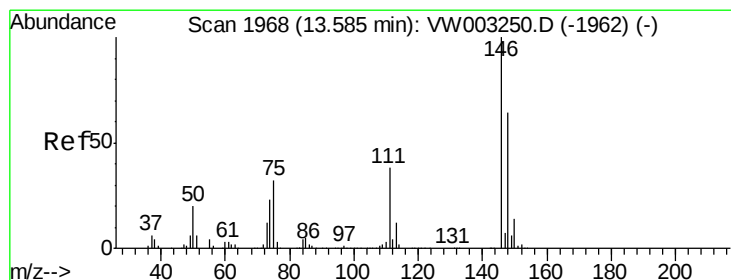
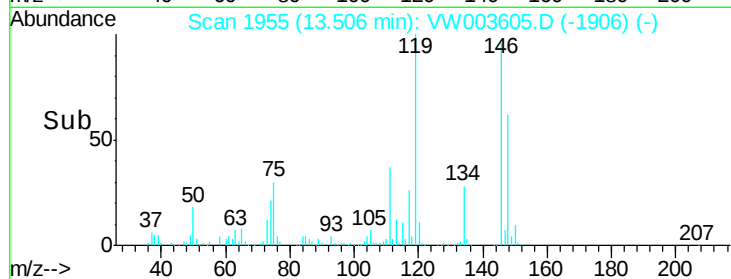
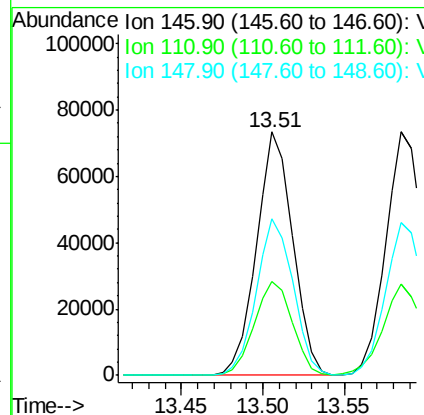
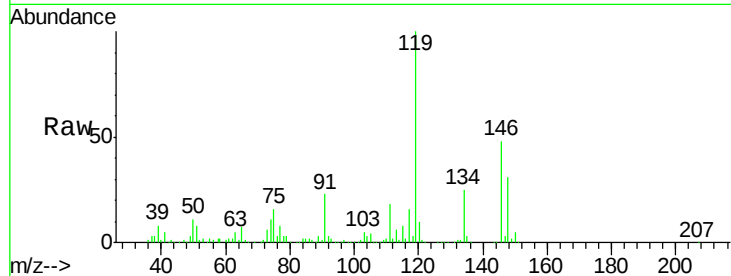




#87  
 1,3-Dichlorobenzene  
 Concen: 20.72 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

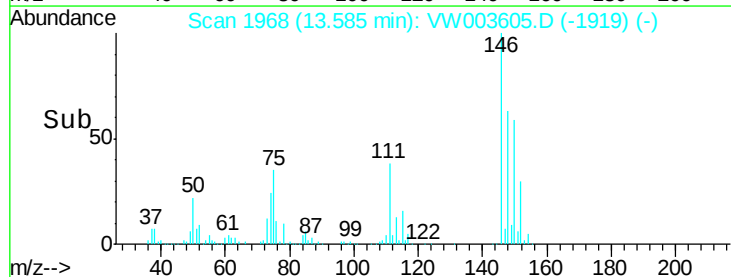
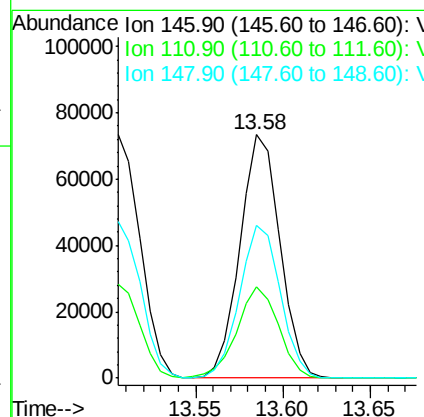
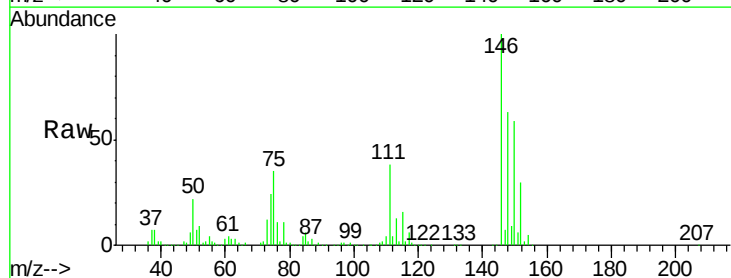
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:146 Resp: 113820  
 Ion Ratio Lower Upper  
 146 100  
 111 40.2 19.8 59.4  
 148 65.1 32.1 96.5



#88  
 1,4-Dichlorobenzene  
 Concen: 21.41 ug/l  
 RT: 13.58 min Scan# 1968  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion:146 Resp: 116915  
 Ion Ratio Lower Upper  
 146 100  
 111 39.1 19.2 57.6  
 148 64.0 31.8 95.4





#89

n-Butylbenzene

Concen: 21.15 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

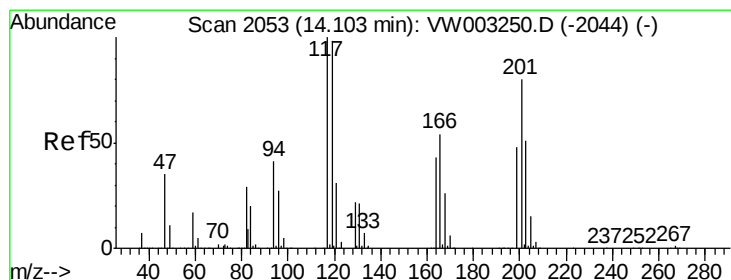
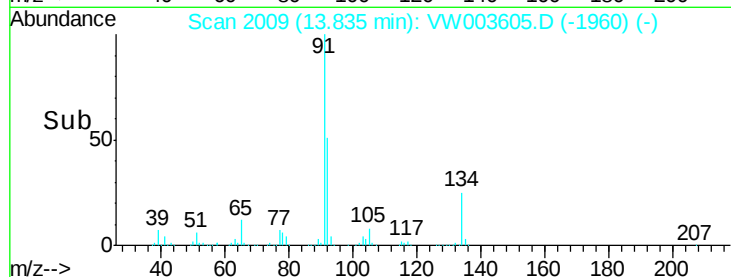
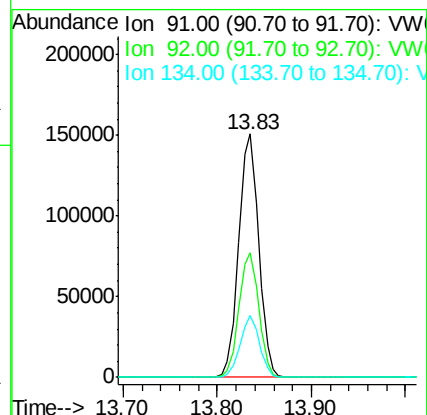
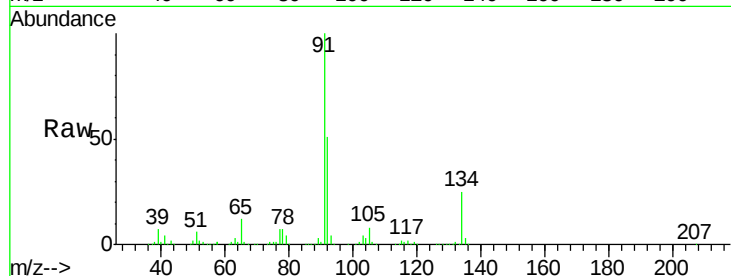
Tot Ion: 91 Resp: 222005

Ion Ratio Lower Upper

91 100

92 50.9 26.0 78.0

134 24.6 12.7 38.0



#90

Hexachloroethane

Concen: 20.78 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VW003605.D

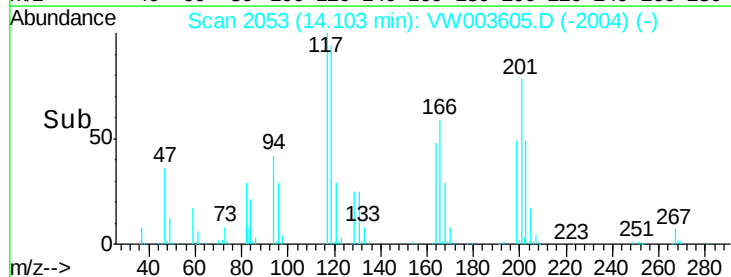
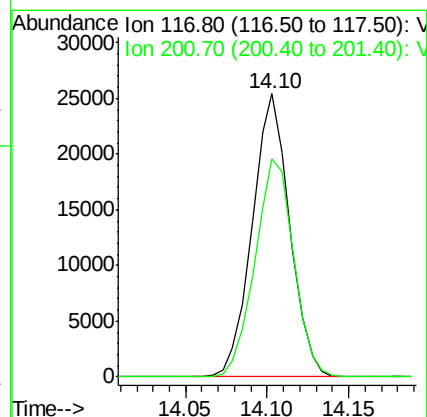
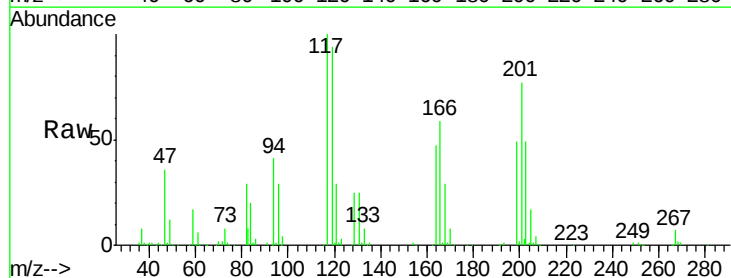
Acq: 27 Jun 2018 11:39

Tgt Ion: 117 Resp: 40477

Ion Ratio Lower Upper

117 100

201 79.6 39.5 118.5





#91

1,2-Dichlorobenzene

Concen: 20.90 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

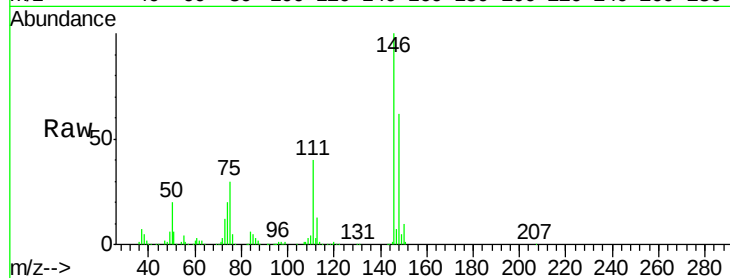
Tot Ion:146 Resp: 100558

Ion Ratio Lower Upper

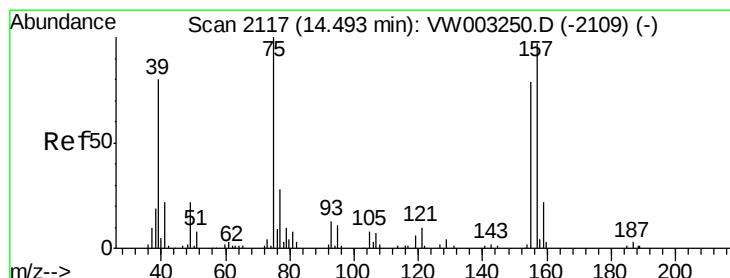
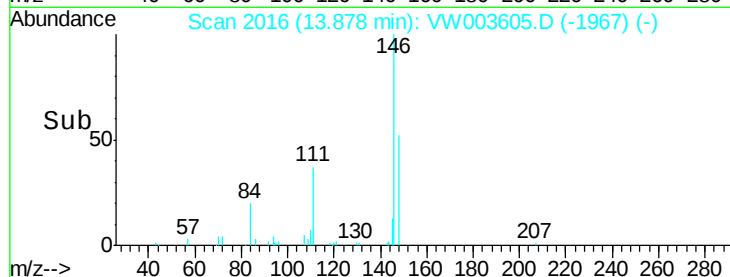
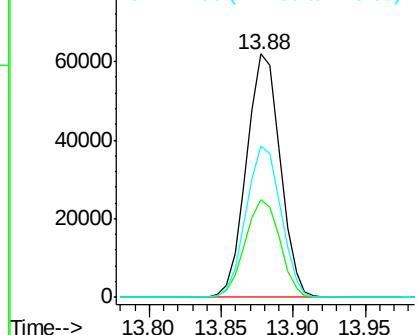
146 100

111 41.3 20.3 61.0

148 64.0 32.3 96.9



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.69 ug/l

RT: 14.49 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

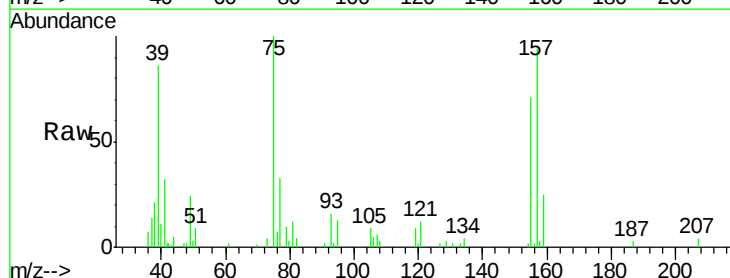
Tgt Ion: 75 Resp: 6109

Ion Ratio Lower Upper

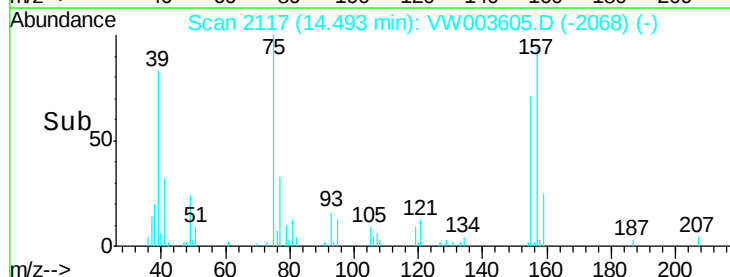
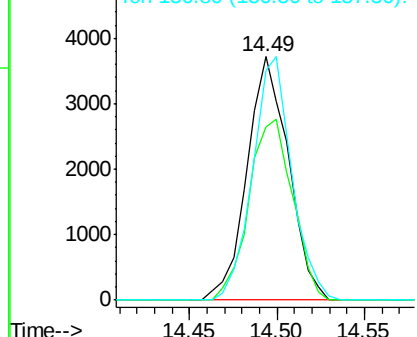
75 100

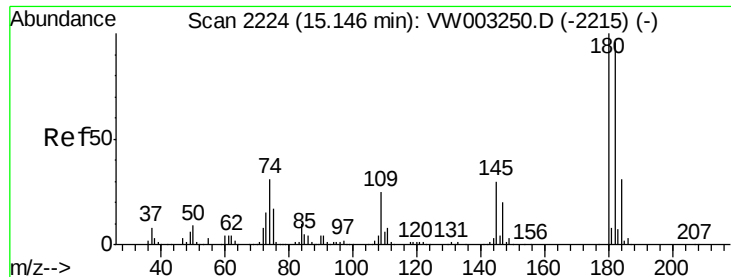
155 78.5 39.4 118.2

157 94.7 51.5 154.5



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 154.80 (154.50 to 155.50): V  
Ion 156.80 (156.50 to 157.50): V

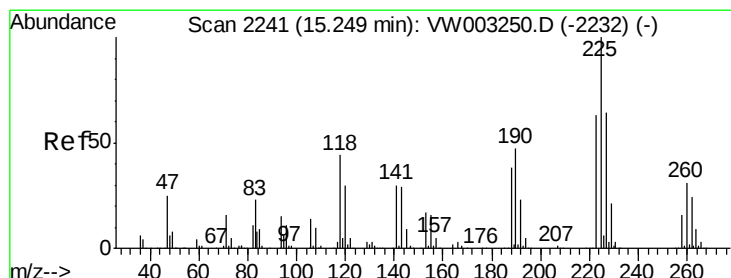
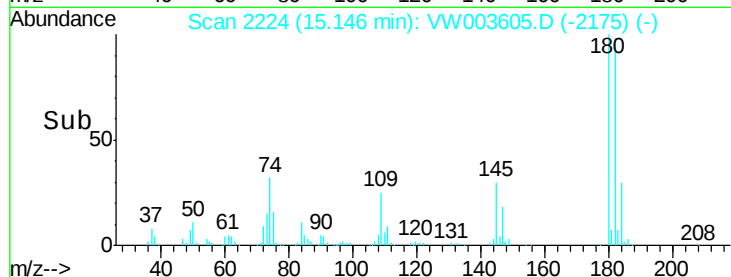
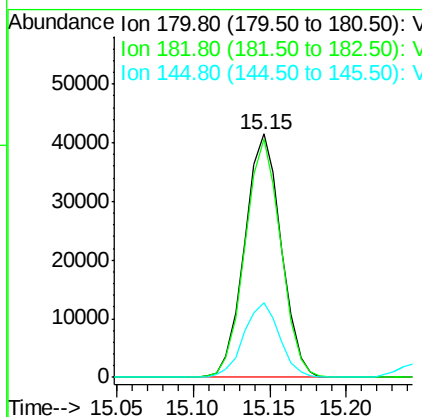
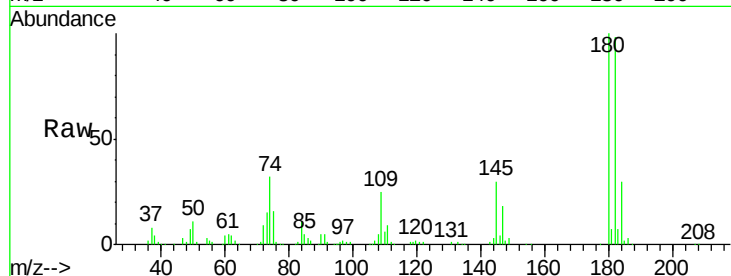




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.36 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

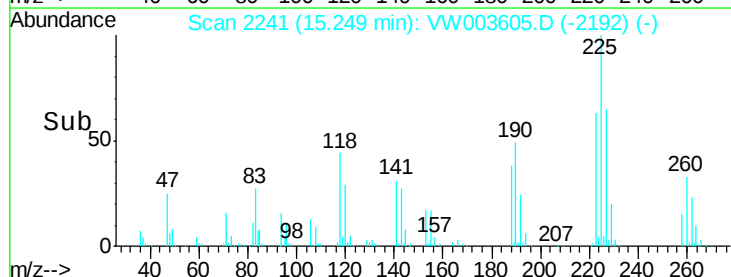
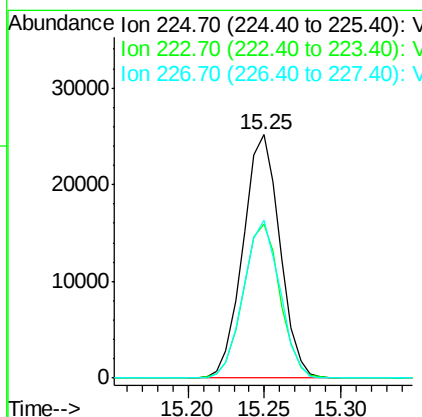
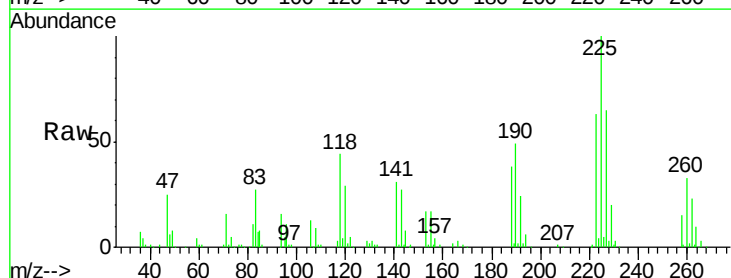
Instrument :  
 MSVOA\_W  
 ClientSampleId :

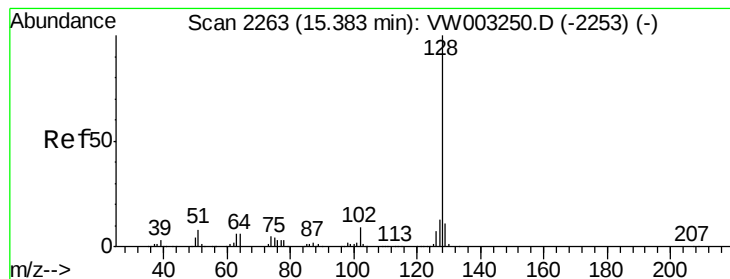
Tot Ion:180 Resp: 68790  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 47.9 143.6  
 145 30.1 15.2 45.5



#94  
 Hexachlorobutadiene  
 Concen: 20.73 ug/l  
 RT: 15.25 min Scan# 2241  
 Delta R.T. 0.00 min  
 Lab File: VW003605.D  
 Acq: 27 Jun 2018 11:39

Tgt Ion:225 Resp: 42119  
 Ion Ratio Lower Upper  
 225 100  
 223 63.2 30.6 92.0  
 227 64.3 31.7 95.1





#95

Naphthalene

Concen: 18.46 ug/l

RT: 15.38 min Scan# 2263

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

Instrument :

MSVOA\_W

ClientSampleId :

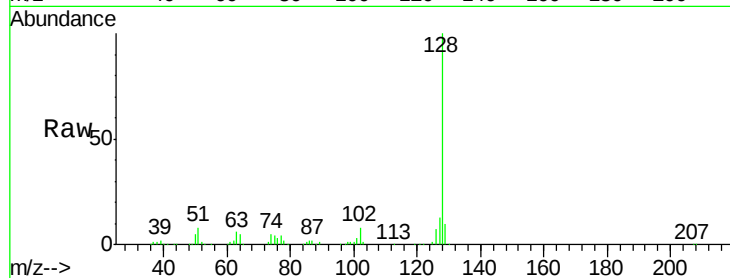
Tot Ion:128 Resp: 105752

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

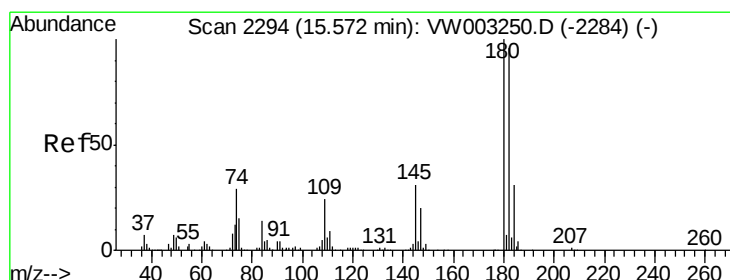
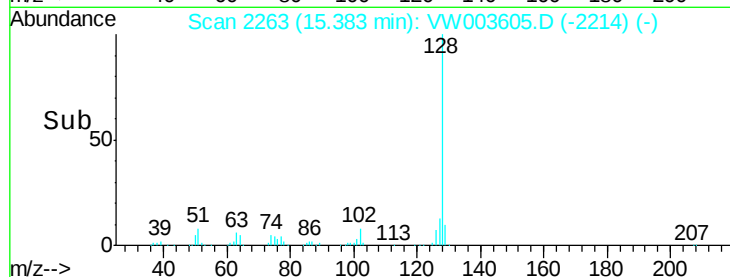
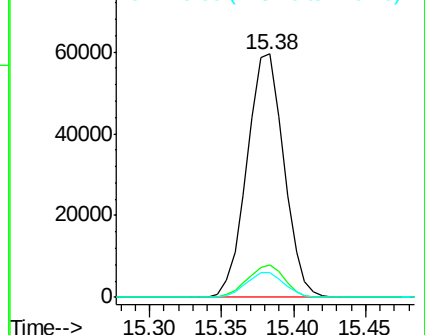
129 10.6 8.9 13.3



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: 19.71 ug/l

RT: 15.57 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VW003605.D

Acq: 27 Jun 2018 11:39

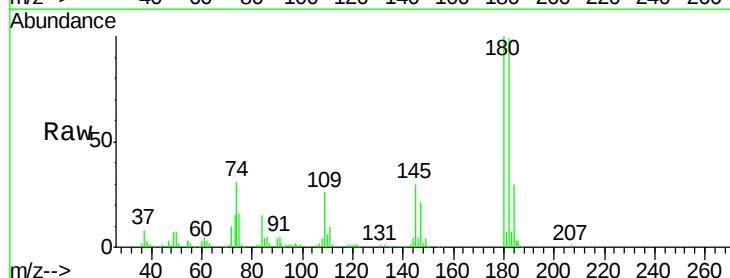
Tgt Ion:180 Resp: 58608

Ion Ratio Lower Upper

180 100

182 96.1 47.9 143.6

145 31.7 15.8 47.4



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

