

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112718\  
 Data File : VW007082.D  
 Acq On : 27 Nov 2018 12:36  
 Operator : VAY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 28 00:22:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 110199   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 167625   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 151903   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 75423    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 53807    | 49.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.74%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 50400    | 53.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.48% |      |
| 50) Toluene-d8            | 10.33  | 98  | 224842   | 53.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.58% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 84570    | 51.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.82% |      |

## Target Compounds

|                               |      |     |        |         | Qvalue   |
|-------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 53314  | 49.000  | ug/l 98  |
| 3) Chloromethane              | 2.21 | 50  | 46046  | 50.782  | ug/l 97  |
| 4) Vinyl Chloride             | 2.36 | 62  | 45754  | 51.286  | ug/l 100 |
| 5) Bromomethane               | 2.78 | 94  | 27369  | 57.478  | ug/l 90  |
| 6) Chloroethane               | 2.92 | 64  | 25713  | 52.286  | ug/l 97  |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 87929  | 50.123  | ug/l 100 |
| 8) Diethyl Ether              | 3.69 | 74  | 27086  | 47.918  | ug/l 96  |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 55466  | 48.771  | ug/l 99  |
| 10) Methyl Iodide             | 4.28 | 142 | 62592  | 48.078  | ug/l 98  |
| 11) Tert butyl alcohol        | 5.18 | 59  | 16913  | 240.811 | ug/l 99  |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 49695  | 49.822  | ug/l 97  |
| 13) Acrolein                  | 3.90 | 56  | 16695  | 231.466 | ug/l 99  |
| 14) Allyl chloride            | 4.68 | 41  | 81667  | 49.363  | ug/l 100 |
| 15) Acrylonitrile             | 5.37 | 53  | 53868  | 253.555 | ug/l 99  |
| 16) Acetone                   | 4.14 | 43  | 39022  | 249.119 | ug/l 100 |
| 17) Carbon Disulfide          | 4.39 | 76  | 160967 | 49.915  | ug/l 99  |
| 18) Methyl Acetate            | 4.68 | 43  | 26112  | 46.811  | ug/l 97  |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 127023 | 48.772  | ug/l 97  |
| 20) Methylene Chloride        | 4.92 | 84  | 58831  | 46.781  | ug/l 98  |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 57241  | 49.264  | ug/l 97  |
| 22) Diisopropyl ether         | 6.31 | 45  | 155345 | 48.242  | ug/l 98  |
| 23) Vinyl Acetate             | 6.26 | 43  | 431660 | 252.432 | ug/l 100 |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 94172  | 48.073  | ug/l 99  |
| 25) 2-Butanone                | 7.17 | 43  | 65612  | 244.564 | ug/l 99  |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 88780  | 50.398  | ug/l 100 |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 60214  | 48.663  | ug/l 99  |
| 28) Bromochloromethane        | 7.51 | 49  | 38475  | 52.551  | ug/l 99  |
| 29) Tetrahydrofuran           | 7.53 | 42  | 41676  | 239.859 | ug/l 99  |
| 30) Chloroform                | 7.68 | 83  | 99472  | 47.797  | ug/l 97  |
| 31) Cyclohexane               | 7.95 | 56  | 98247  | 47.284  | ug/l 98  |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 95075  | 50.719  | ug/l 99  |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 85465  | 52.175  | ug/l 99  |
| 37) Ethyl Acetate             | 7.26 | 43  | 29063  | 48.962  | ug/l 98  |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 84835  | 54.084  | ug/l 99  |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 104648   | 51.051   | ug/l   | 99       |
| 40) Benzene                    | 8.33  | 78   | 228066   | 51.579   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 18783    | 50.954   | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 63266    | 49.283   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 57521    | 50.851   | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 63567    | 51.284   | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 55167    | 50.613   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 27308    | 50.030   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 70491    | 49.016   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 27096    | 49.679   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 9166     | 1129.814 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 135254   | 236.605  | ug/l   | 97       |
| 52) Toluene                    | 10.39 | 92   | 159622   | 53.046   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 71982    | 51.669   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 85034    | 50.523   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 39640    | 49.360   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 48797    | 52.347   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 67030    | 49.807   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 113461   | 232.923  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 97558    | 249.218  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 46550    | 50.870   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 36818    | 50.117   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 51700    | 52.905   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 172342   | 54.359   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 52446    | 54.683   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 316716   | 54.379   | ug/l   | 95       |
| 68) m/p-Xylenes                | 11.84 | 106  | 245103   | 107.264  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 112418   | 52.175   | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 181752   | 53.001   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 24301    | 53.786   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 309589   | 52.815   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 52376    | 53.313   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 38882    | 49.842   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 55890    | 94.302   | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 66863    | 53.108   | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 369994   | 52.109   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 217658   | 53.165   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 268244   | 52.919   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 12153    | 51.481   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 228970   | 53.295   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 235124   | 53.576   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 269840   | 53.431   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 327510   | 52.825   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 288605   | 52.765   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 135473   | 52.707   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 138394   | 54.004   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.83 | 91   | 280515   | 54.498   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 44403    | 55.605   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 118041   | 52.412   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7203     | 54.670   | ug/l   | 93       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Nov 28 00:22:39 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 21 03:23:02 2018  
Response via : Initial Calibration

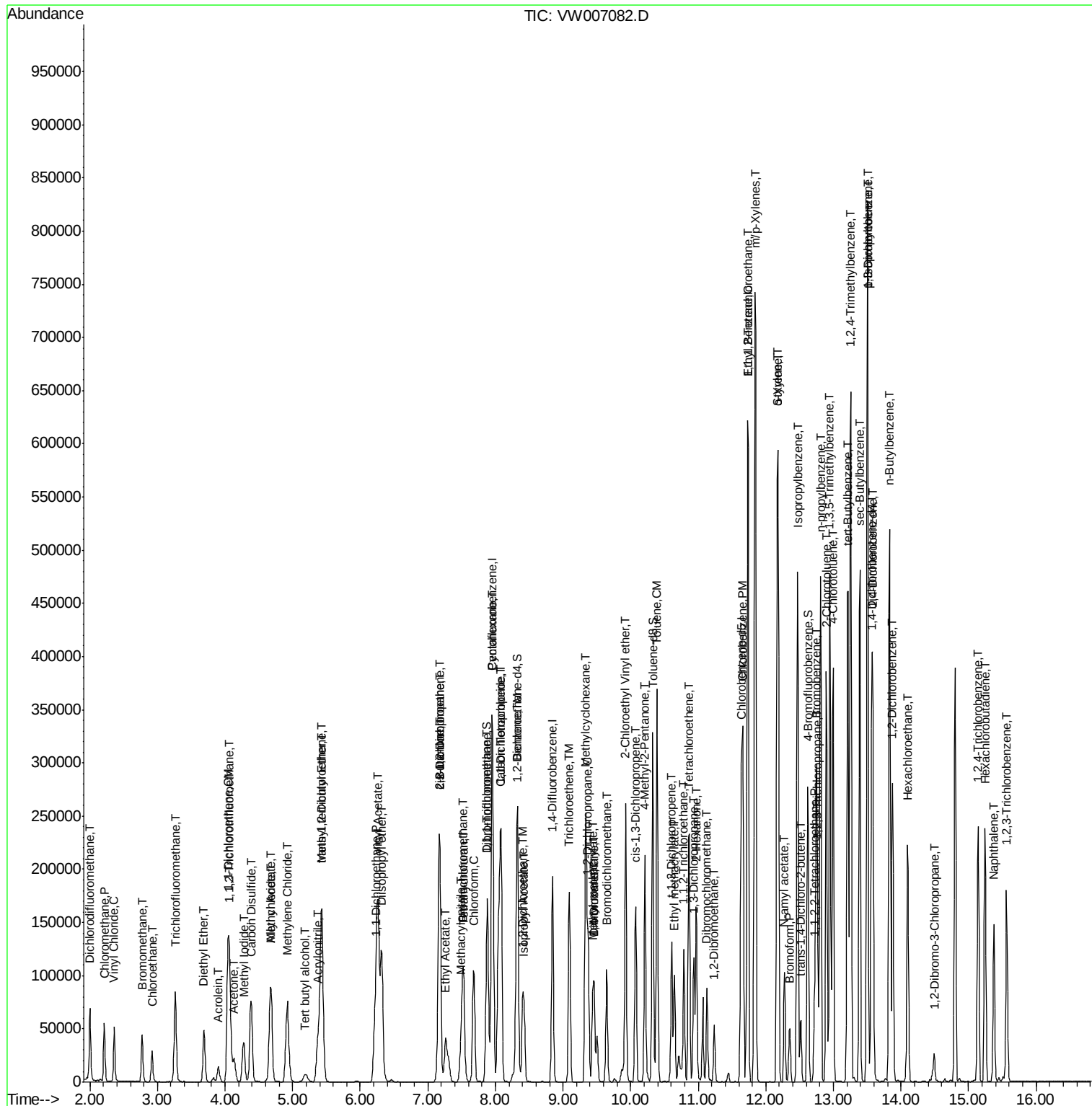
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 74273    | 50.012 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 43538    | 53.927 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 133427   | 49.494 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 62510    | 50.735 | ug/l  | 99       |

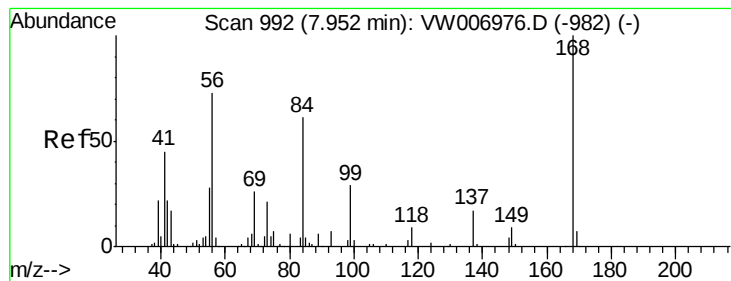
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW112718\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

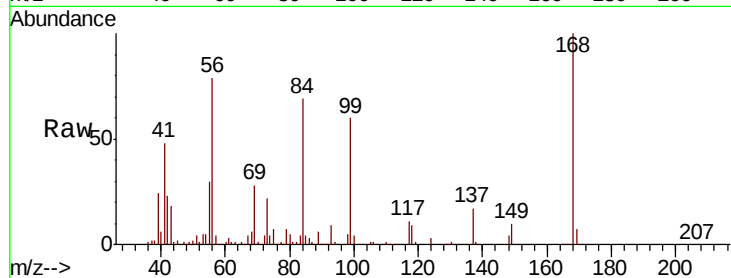
VSTDCCC050

Tot Ion:168 Resp: 110199

Ion Ratio Lower Upper

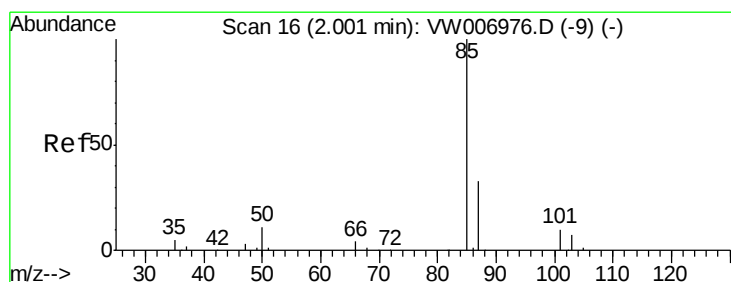
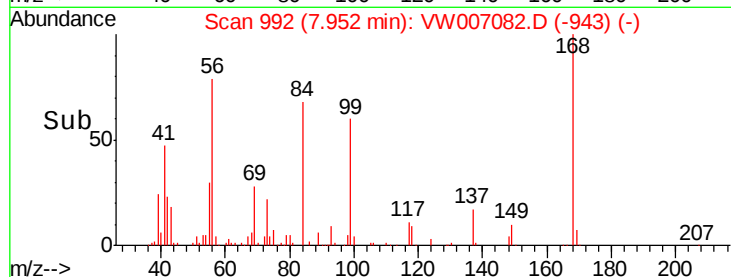
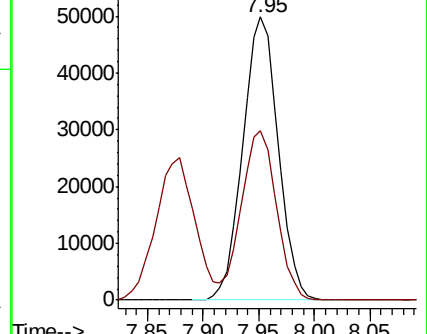
168 100

99 60.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 49.000 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW007082.D

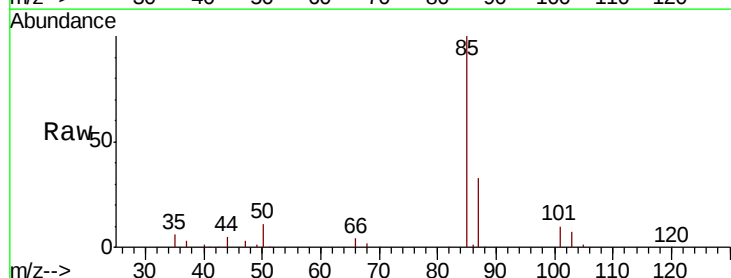
Acq: 27 Nov 2018 12:36

Tgt Ion: 85 Resp: 53314

Ion Ratio Lower Upper

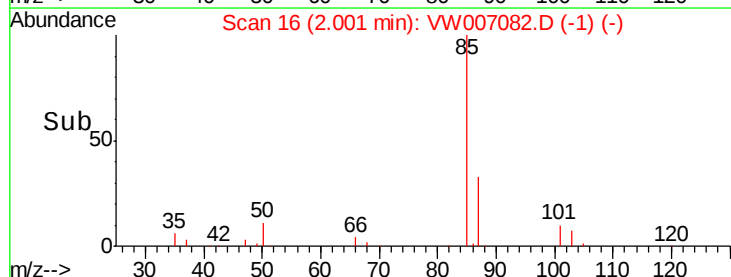
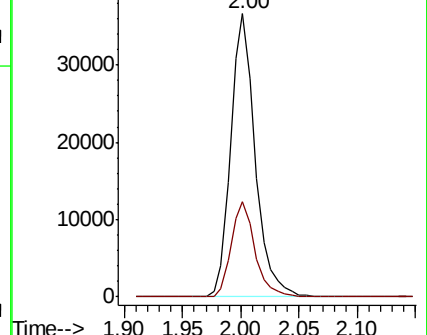
85 100

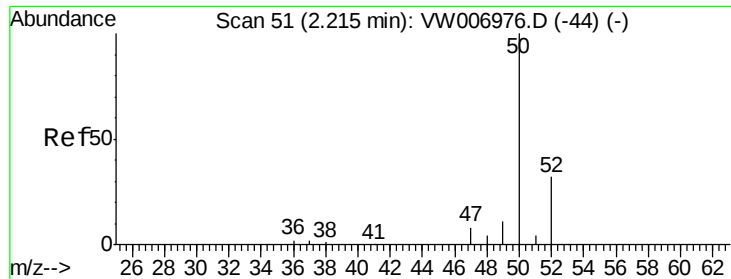
87 33.4 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 50.782 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

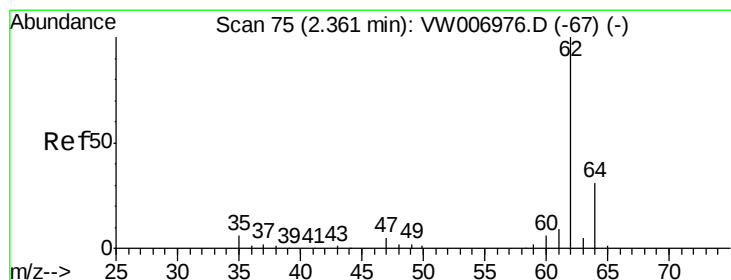
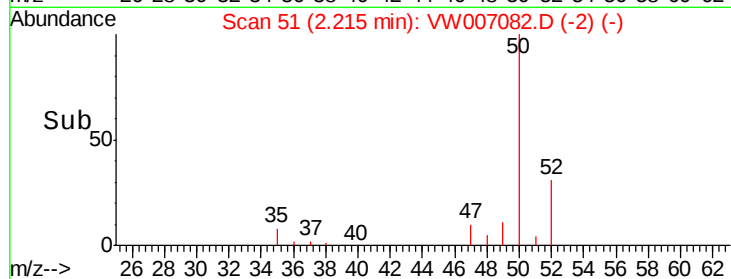
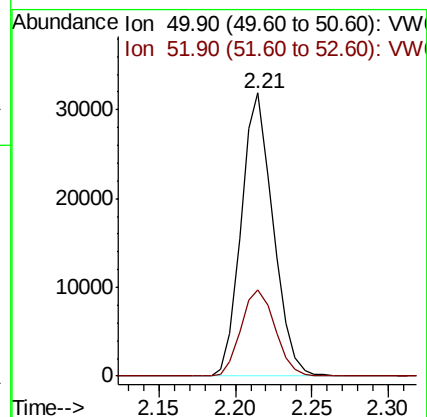
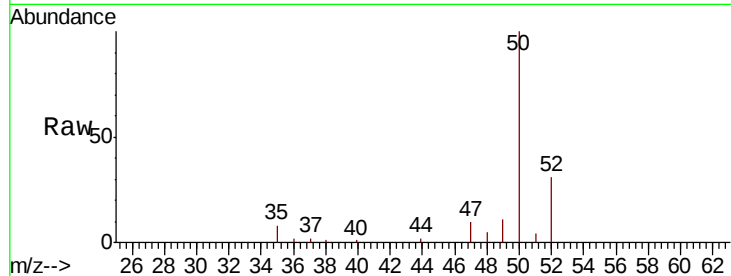
VSTDCCC050

Tot Ion: 50 Resp: 46046

Ion Ratio Lower Upper

50 100

52 30.7 25.7 38.5



#4

Vinyl Chloride

Concen: 51.286 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW007082.D

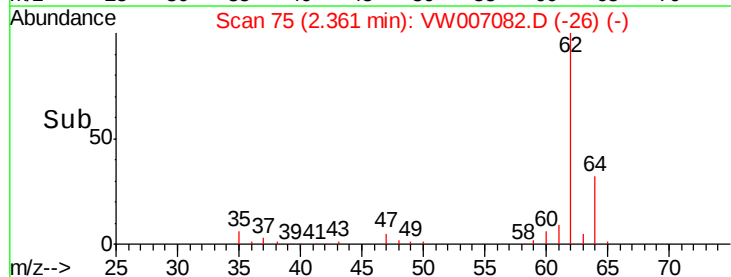
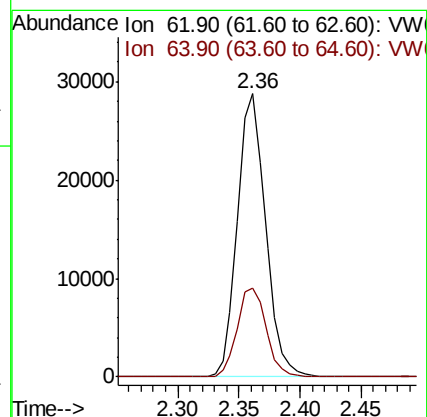
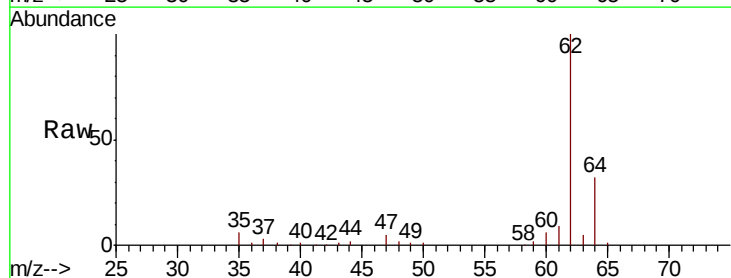
Acq: 27 Nov 2018 12:36

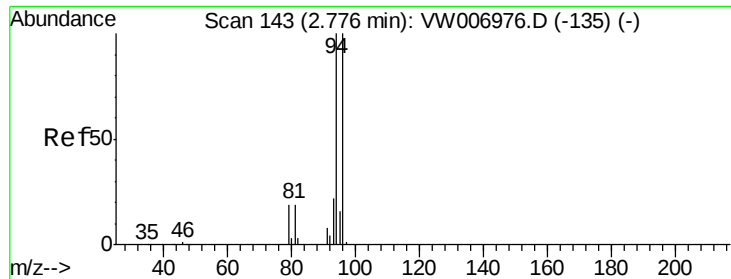
Tgt Ion: 62 Resp: 45754

Ion Ratio Lower Upper

62 100

64 31.5 25.2 37.8





#5

Bromomethane

Concen: 57.478 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

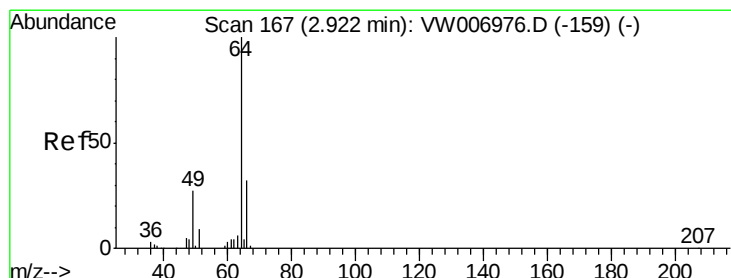
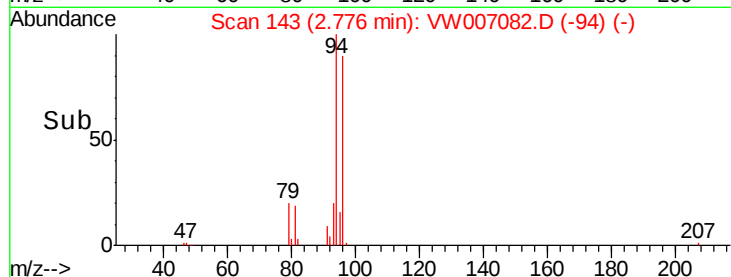
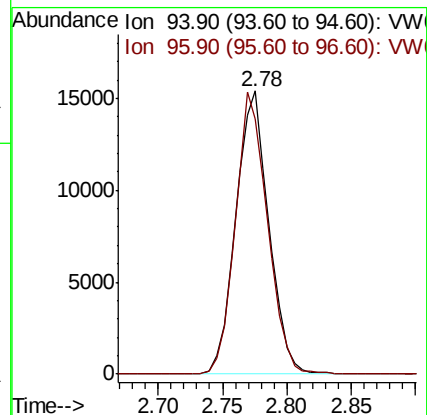
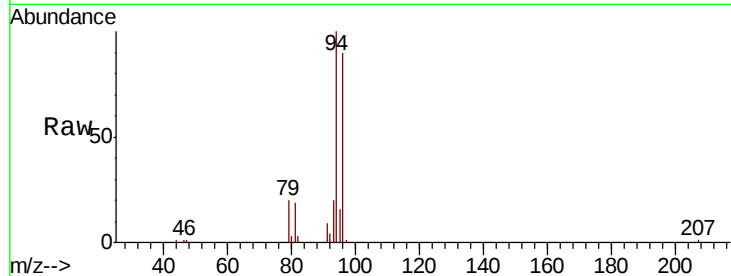
VSTDCCC050

Tot Ion: 94 Resp: 27369

Ion Ratio Lower Upper

94 100

96 90.2 80.2 120.2



#6

Chloroethane

Concen: 52.286 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW007082.D

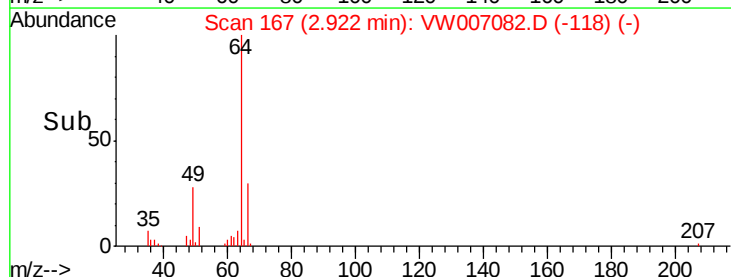
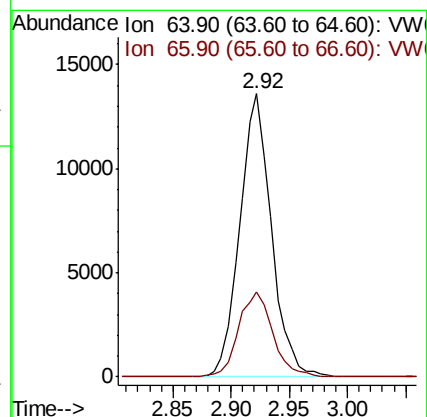
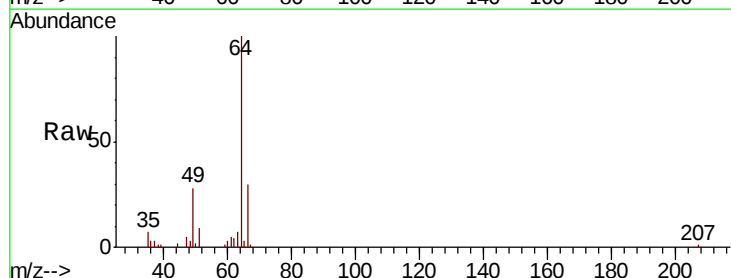
Acq: 27 Nov 2018 12:36

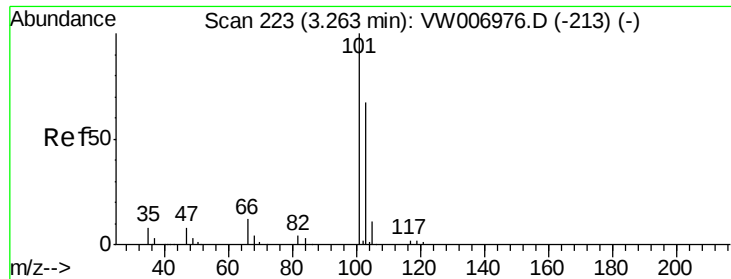
Tgt Ion: 64 Resp: 25713

Ion Ratio Lower Upper

64 100

66 29.8 25.3 37.9



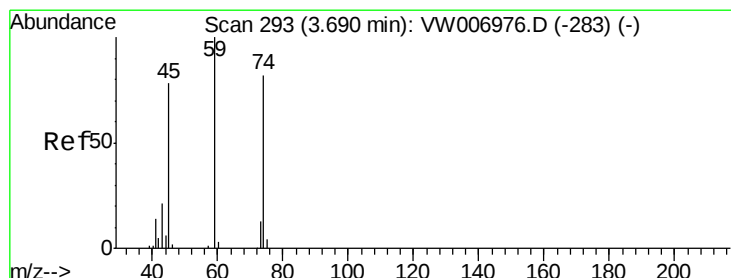
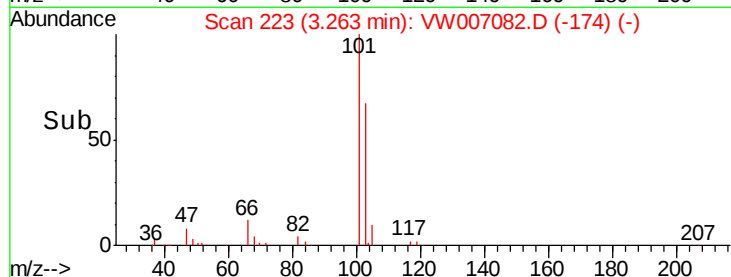
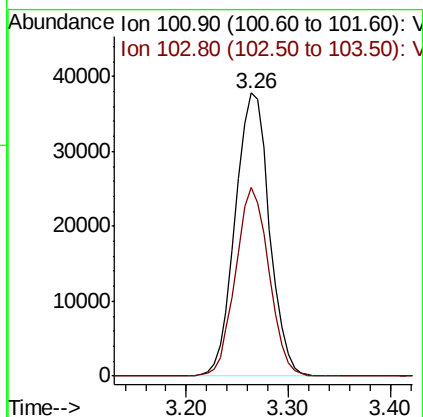
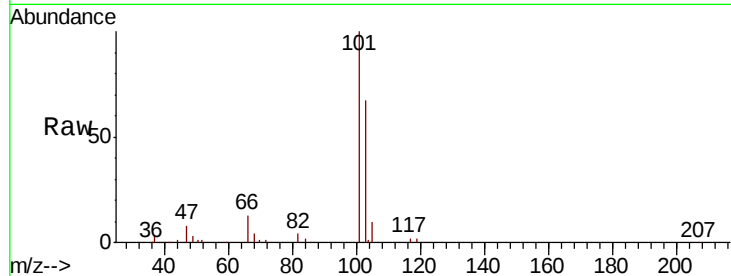


#7

Trichlorofluoromethane  
 Concen: 50.123 ug/l  
 RT: 3.26 min Scan# 223  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

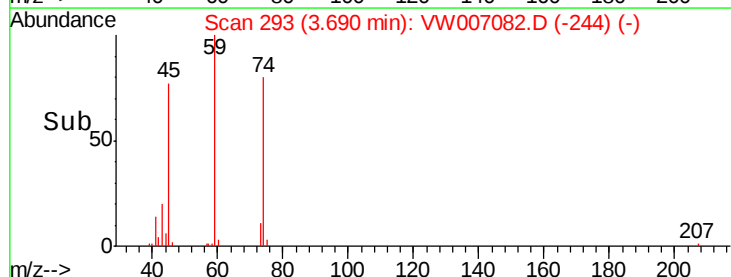
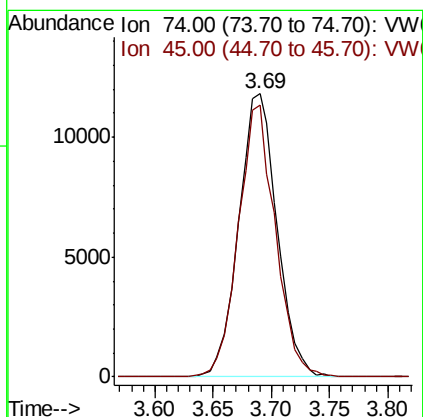
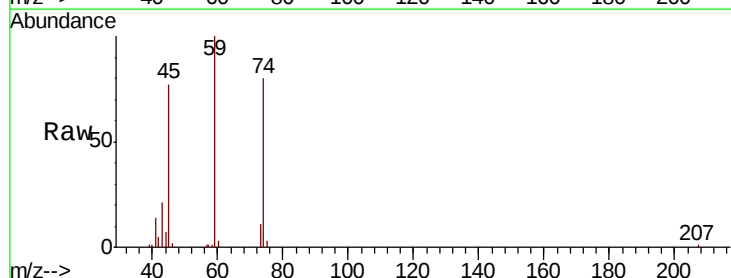
Tot Ion:101 Resp: 87929  
 Ion Ratio Lower Upper  
 101 100  
 103 66.8 53.4 80.2



#8

Diethyl Ether  
 Concen: 47.918 ug/l  
 RT: 3.69 min Scan# 293  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 74 Resp: 27086  
 Ion Ratio Lower Upper  
 74 100  
 45 92.6 48.4 145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.771 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

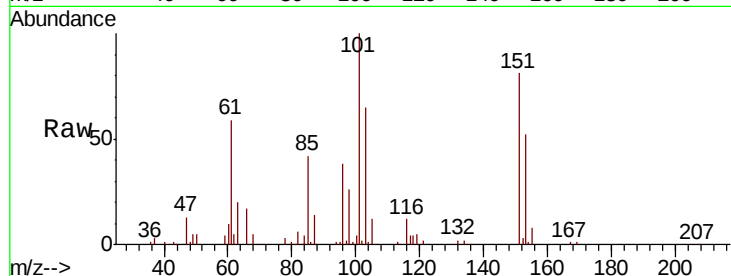
Tot Ion:101 Resp: 55466

Ion Ratio Lower Upper

101 100

85 41.6 34.3 51.5

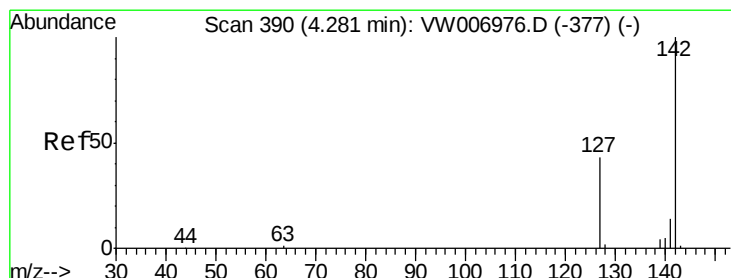
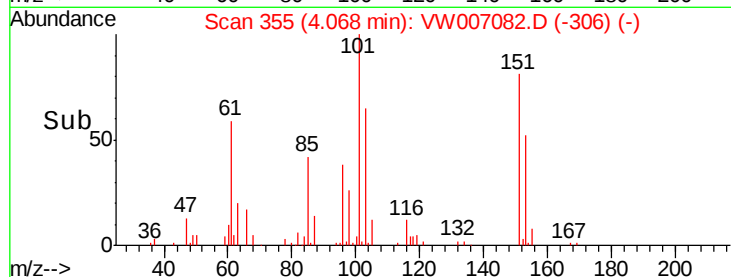
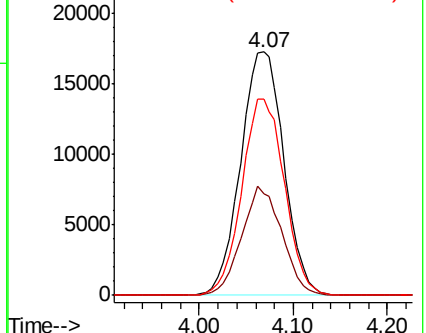
151 79.4 63.4 95.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 48.078 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

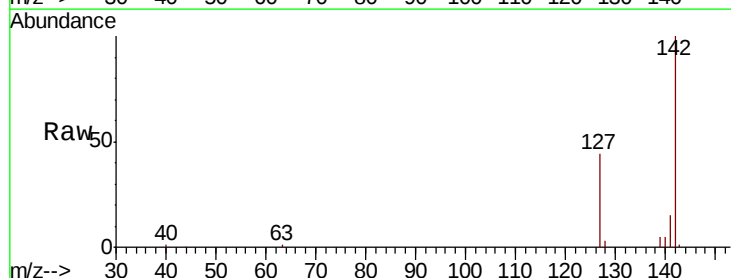
Tgt Ion:142 Resp: 62592

Ion Ratio Lower Upper

142 100

127 42.6 35.3 52.9

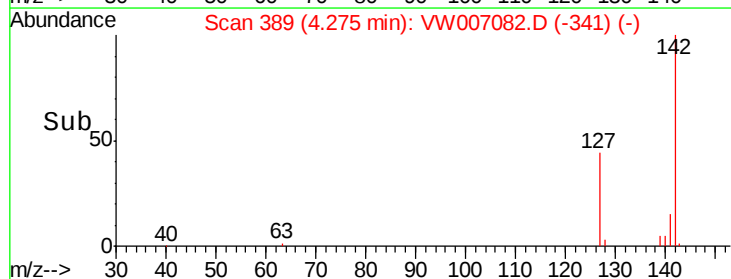
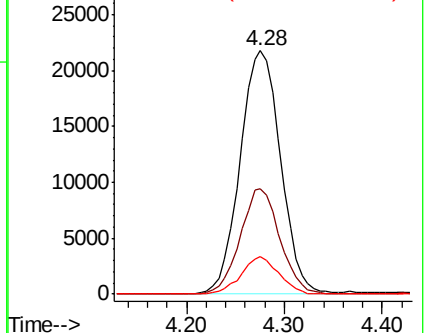
141 14.3 11.7 17.5

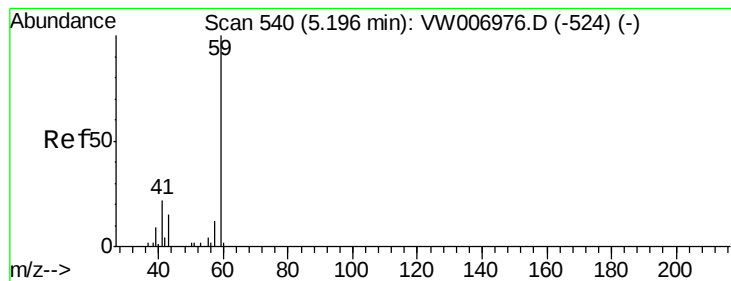


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



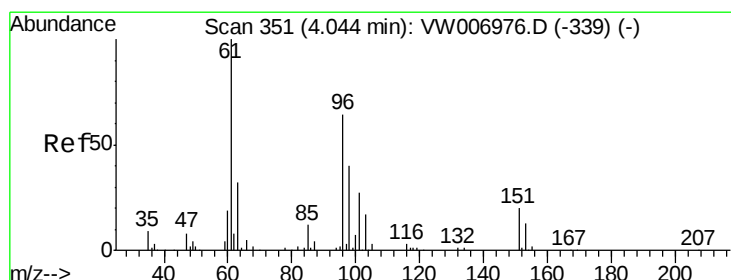
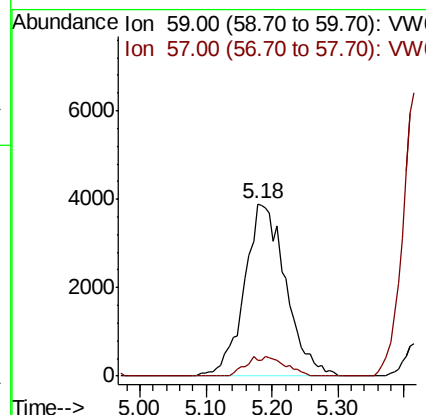
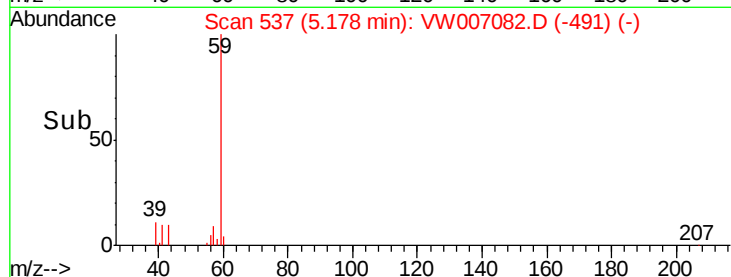
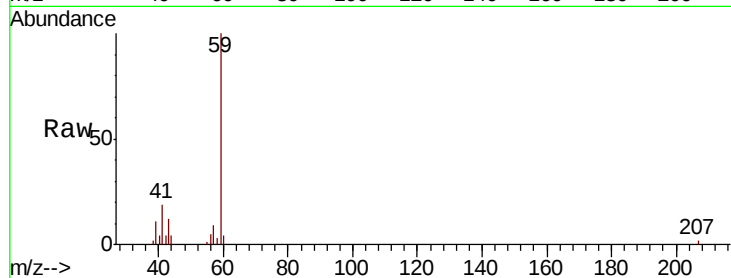


#11

Tert butyl alcohol  
Concen: 240.811 ug/l  
RT: 5.18 min Scan# 537  
Delta R.T. -0.02 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

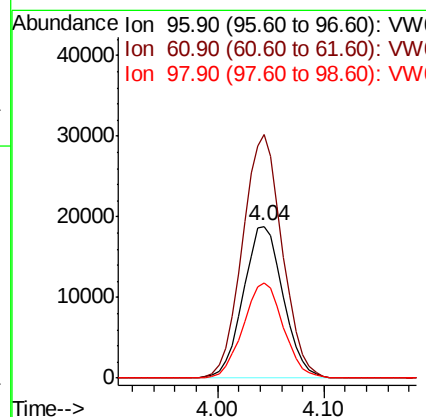
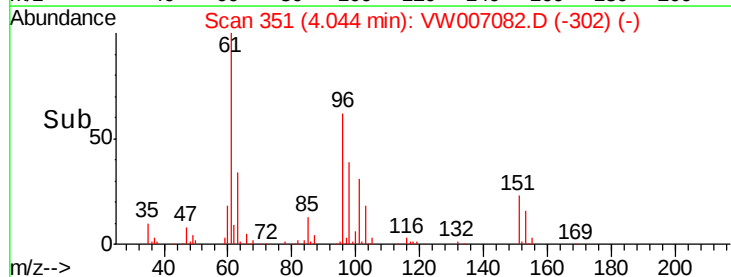
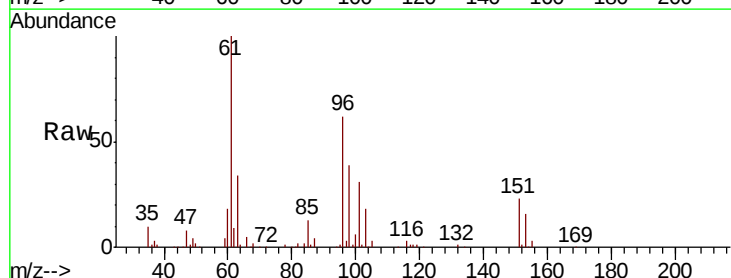
Tot Ion: 59 Resp: 16913  
Ion Ratio Lower Upper  
59 100  
57 10.5 8.6 13.0

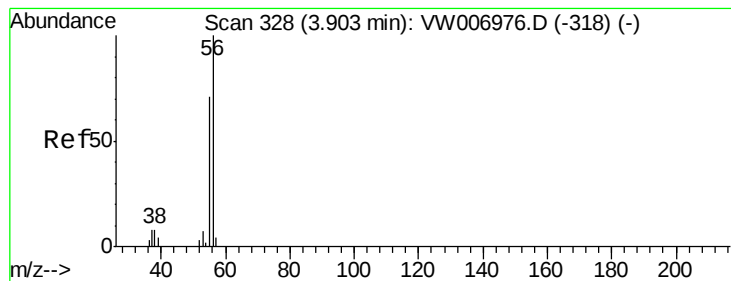


#12

1,1-Dichloroethene  
Concen: 49.822 ug/l  
RT: 4.04 min Scan# 351  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 96 Resp: 49695  
Ion Ratio Lower Upper  
96 100  
61 160.7 124.3 186.5  
98 63.2 49.4 74.2





#13

Acrolein

Concen: 231.466 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

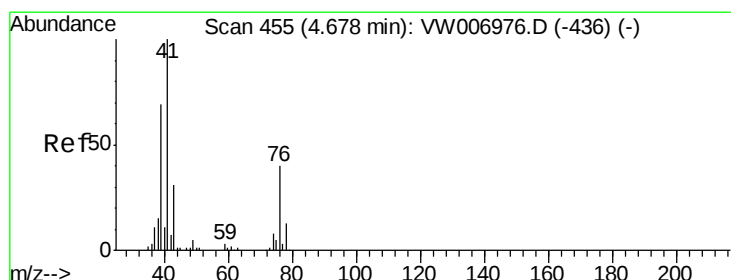
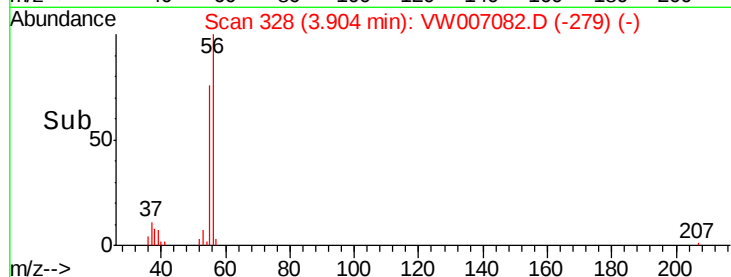
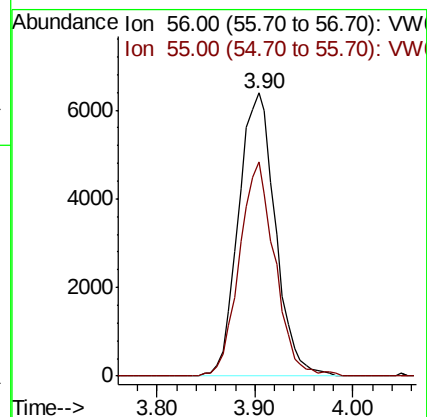
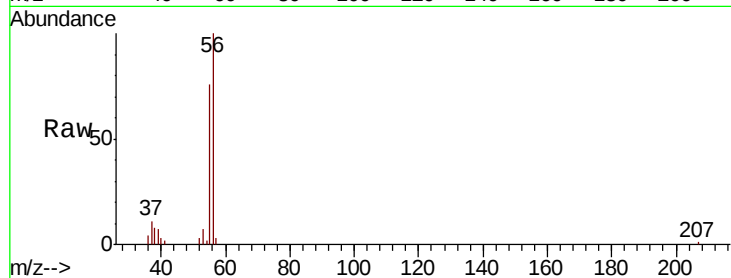
VSTDCCC050

Tot Ion: 56 Resp: 16695

Ion Ratio Lower Upper

56 100

55 73.1 57.5 86.3



#14

Allyl chloride

Concen: 49.363 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

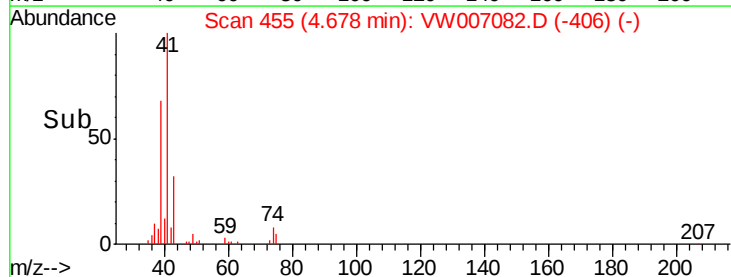
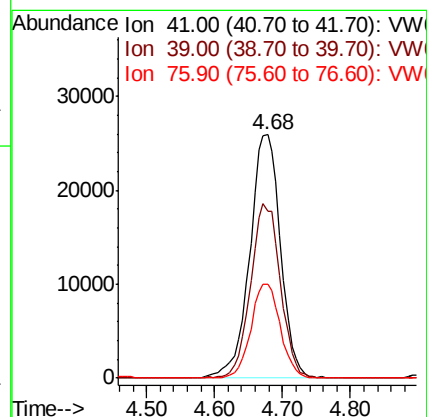
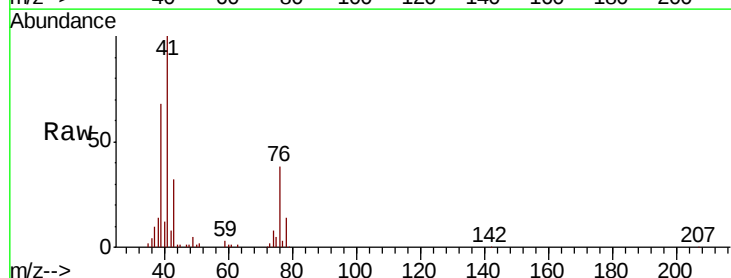
Tgt Ion: 41 Resp: 81667

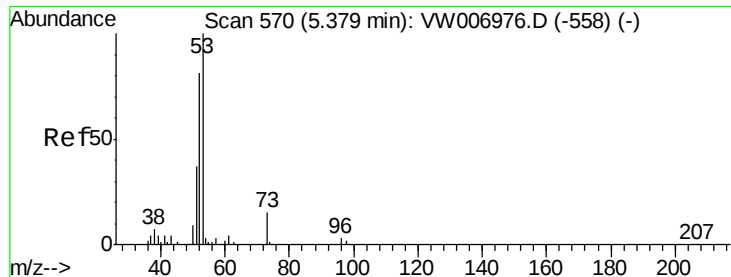
Ion Ratio Lower Upper

41 100

39 69.5 55.4 83.2

76 36.9 29.6 44.4





#15

Acrylonitrile

Concen: 253.555 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

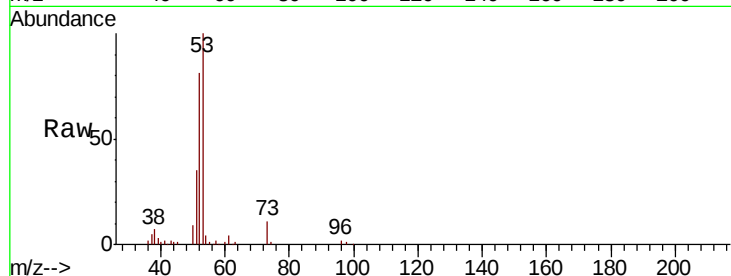
Tot Ion: 53 Resp: 53868

Ion Ratio Lower Upper

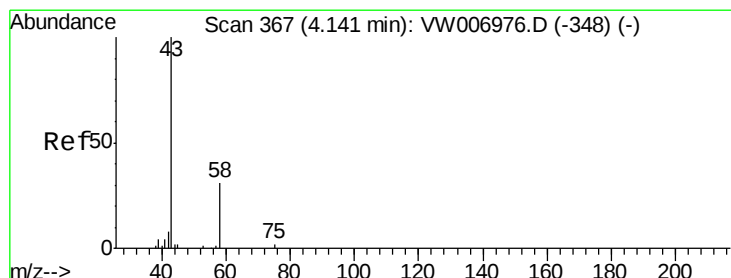
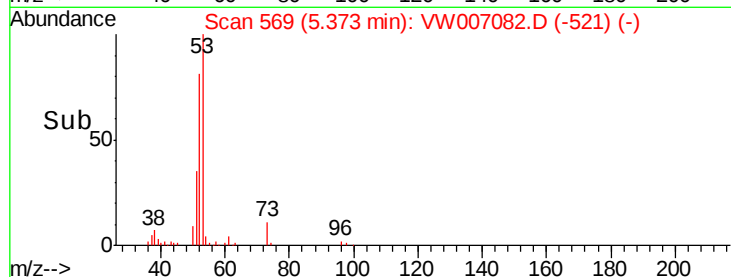
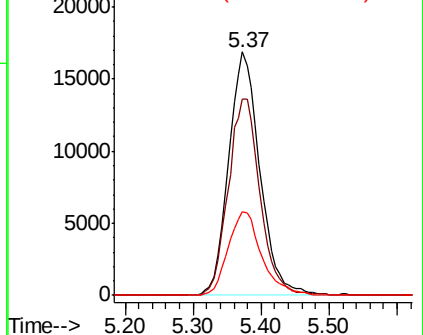
53 100

52 81.6 65.7 98.5

51 36.8 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VW  
Ion 52.00 (51.70 to 52.70): VW  
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 249.119 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW007082.D

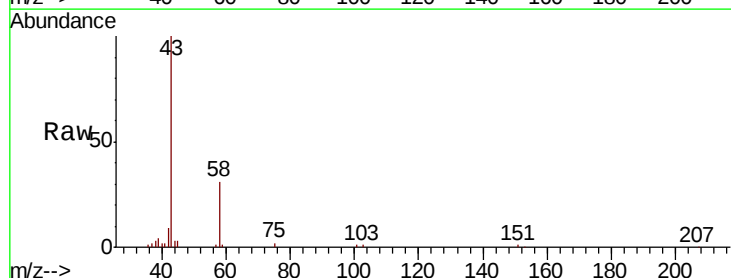
Acq: 27 Nov 2018 12:36

Tgt Ion: 43 Resp: 39022

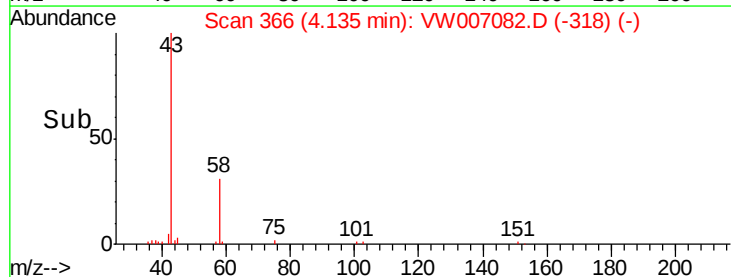
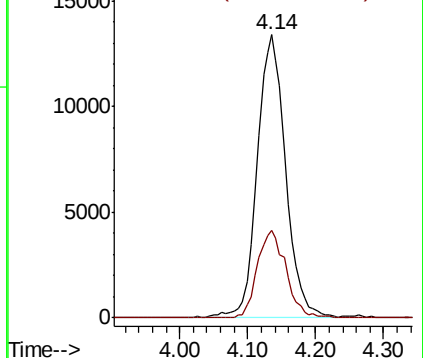
Ion Ratio Lower Upper

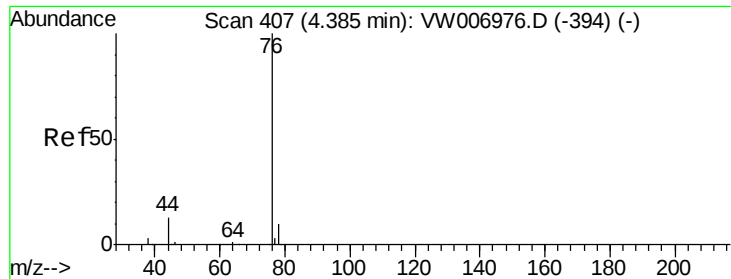
43 100

58 30.8 24.8 37.2



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

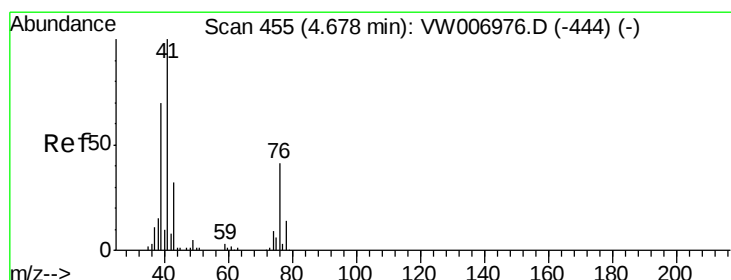
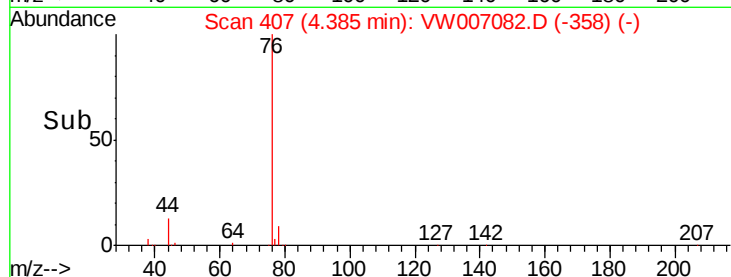
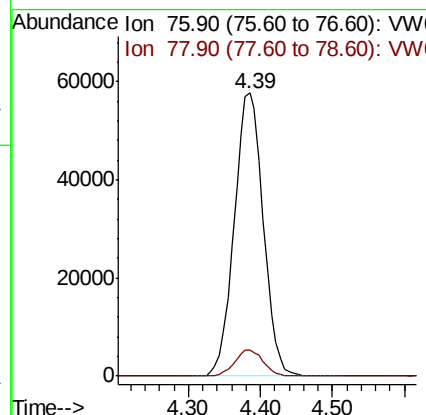
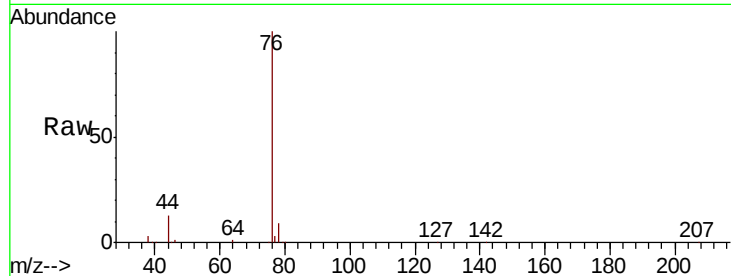




#17  
 Carbon Disulfide  
 Concen: 49.915 ug/l  
 RT: 4.39 min Scan# 407  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

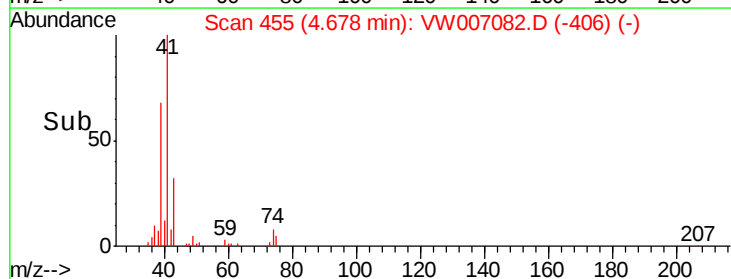
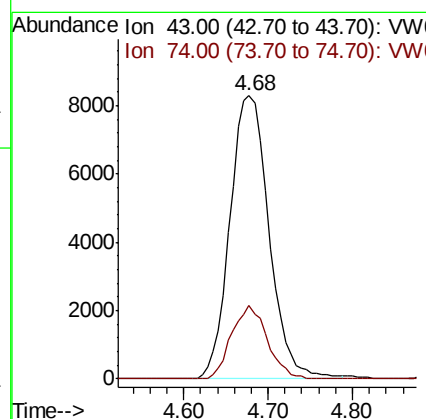
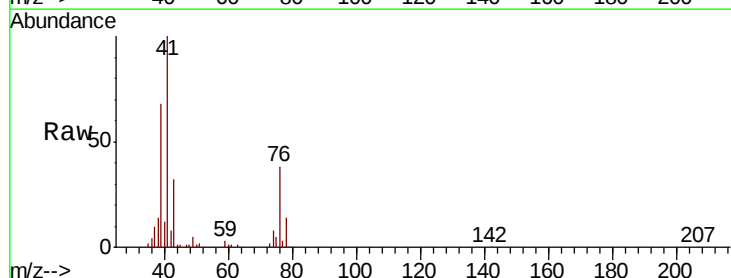
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

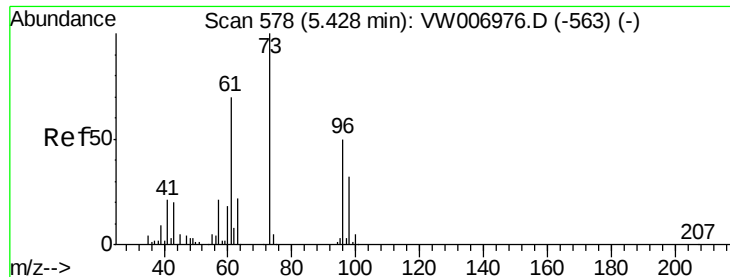
Tot Ion: 76 Resp: 160967  
 Ion Ratio Lower Upper  
 76 100  
 78 9.3 7.8 11.6



#18  
 Methyl Acetate  
 Concen: 46.811 ug/l  
 RT: 4.68 min Scan# 455  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 43 Resp: 26112  
 Ion Ratio Lower Upper  
 43 100  
 74 23.5 20.1 30.1

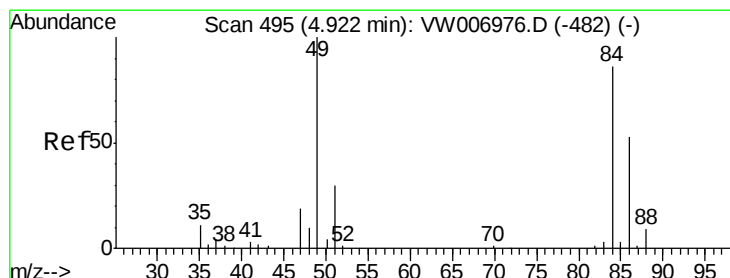
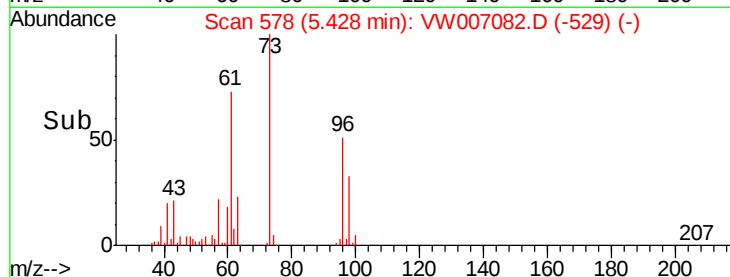
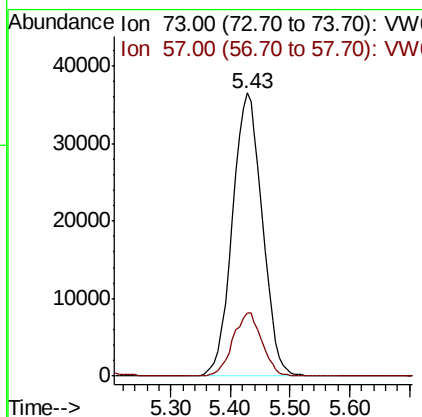
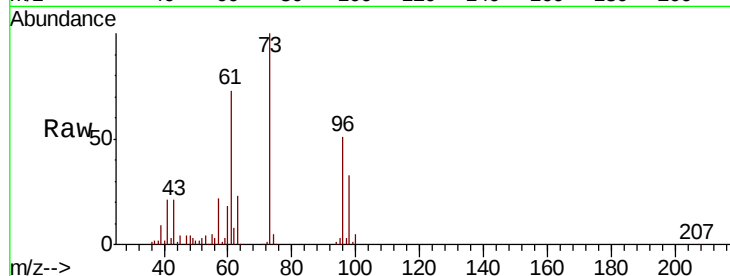




#19  
Methvl tert-butvl Ether  
Concen: 48.772 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

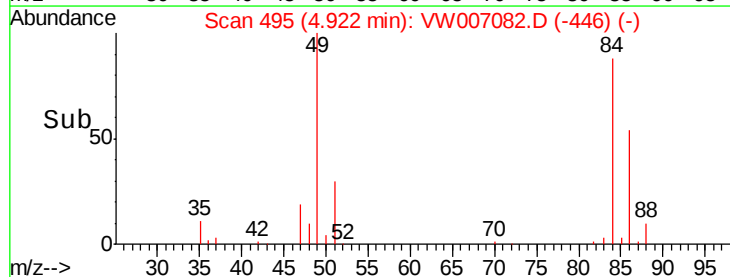
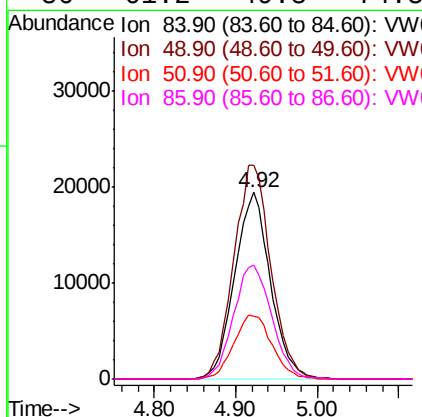
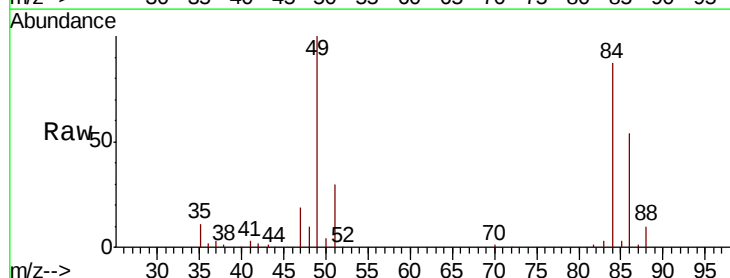
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

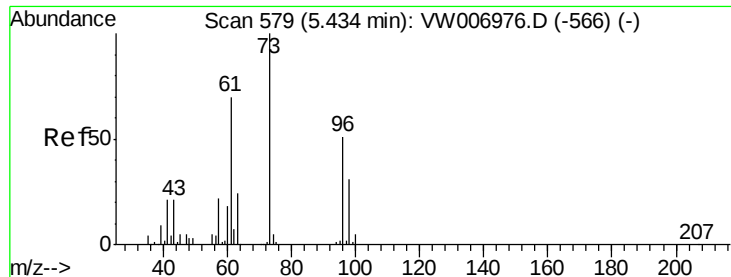
Tot Ion: 73 Resp: 127023  
Ion Ratio Lower Upper  
73 100  
57 22.2 16.7 25.1



#20  
Methylene Chloride  
Concen: 46.781 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 84 Resp: 58831  
Ion Ratio Lower Upper  
84 100  
49 114.3 93.4 140.0  
51 33.9 28.4 42.6  
86 61.2 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 49.264 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

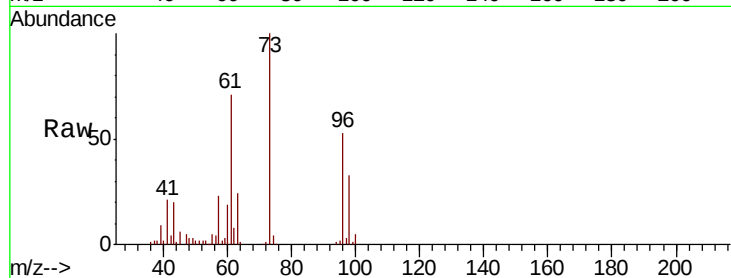
Tot Ion: 96 Resp: 57241

Ion Ratio Lower Upper

96 100

61 132.8 109.4 164.0

98 62.7 48.3 72.5

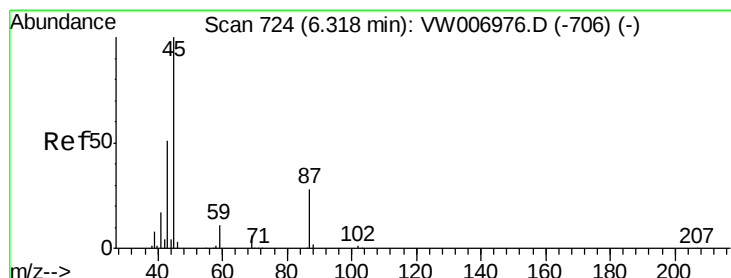
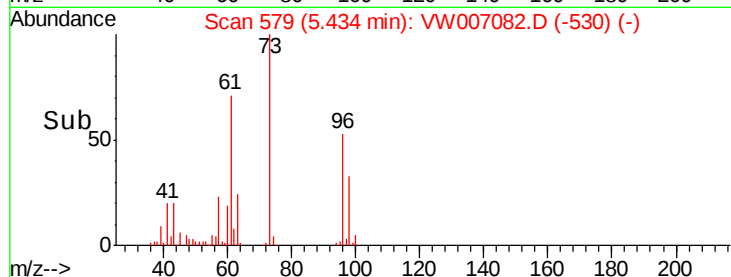
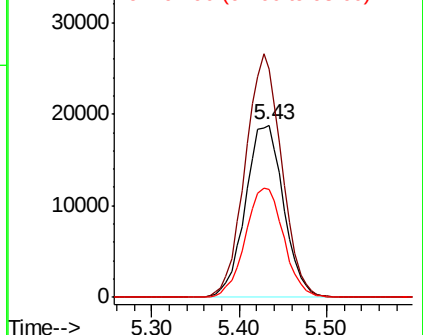


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 48.242 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Tgt Ion: 45 Resp: 155345

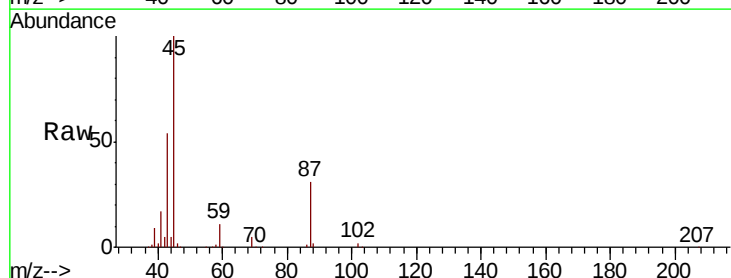
Ion Ratio Lower Upper

45 100

43 53.3 42.5 63.7

87 31.3 22.8 34.2

59 10.4 9.1 13.7



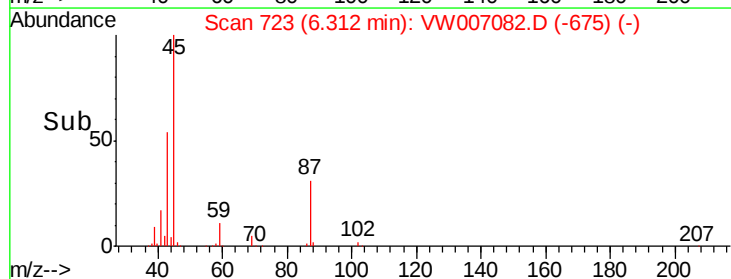
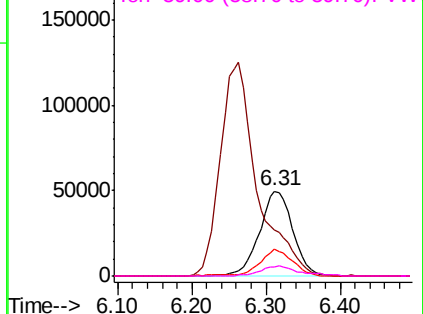
Abundance

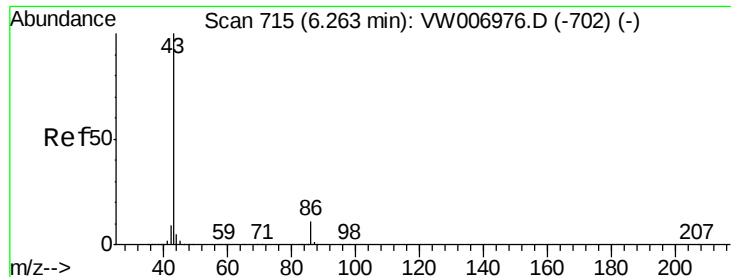
Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 252.432 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

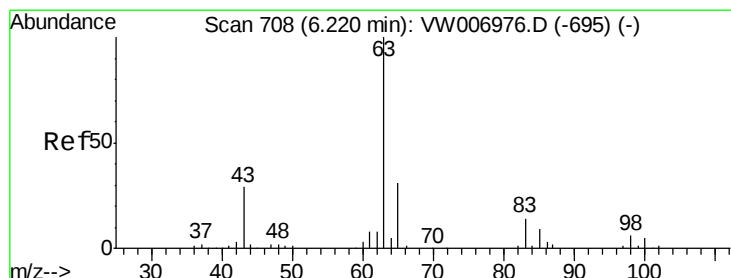
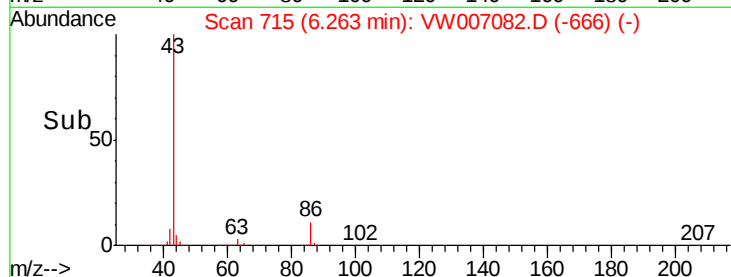
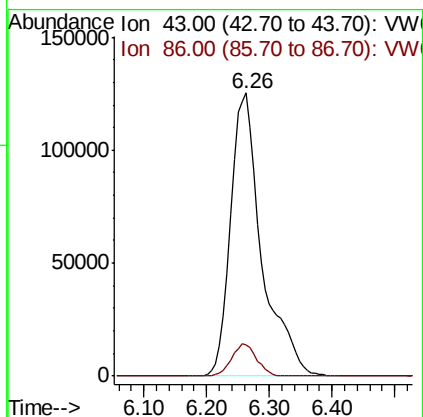
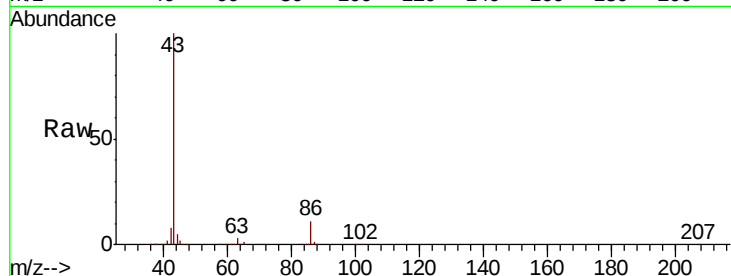
VSTDCCC050

Tot Ion: 43 Resp: 431660

Ion Ratio Lower Upper

43 100

86 10.9 8.7 13.1



#24

1,1-Dichloroethane

Concen: 48.073 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

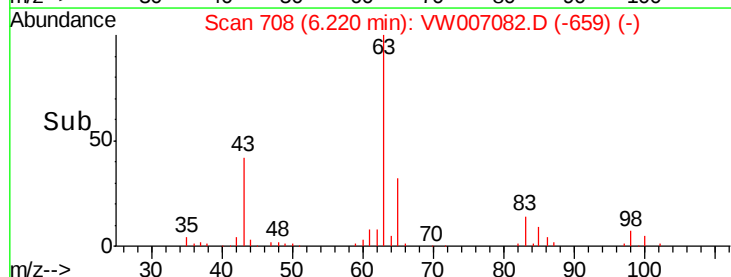
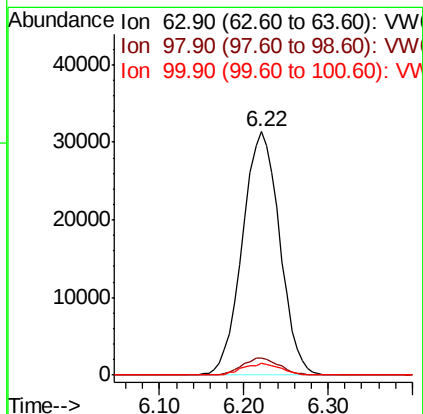
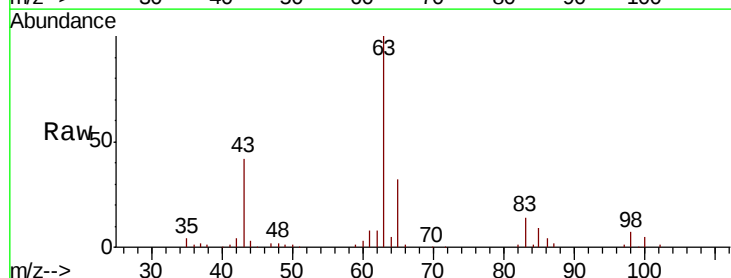
Tgt Ion: 63 Resp: 94172

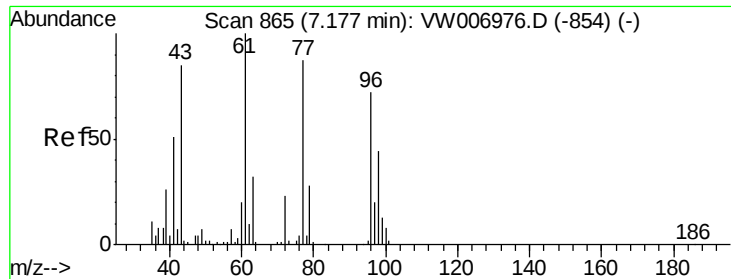
Ion Ratio Lower Upper

63 100

98 6.8 3.1 9.4

100 4.7 2.3 6.9





#25

2-Butanone

Concen: 244.564 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

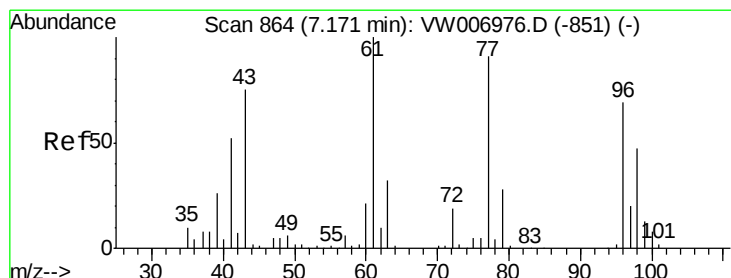
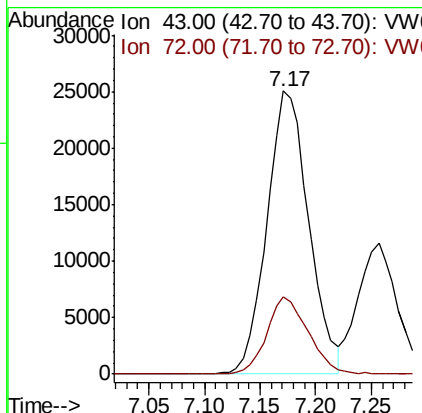
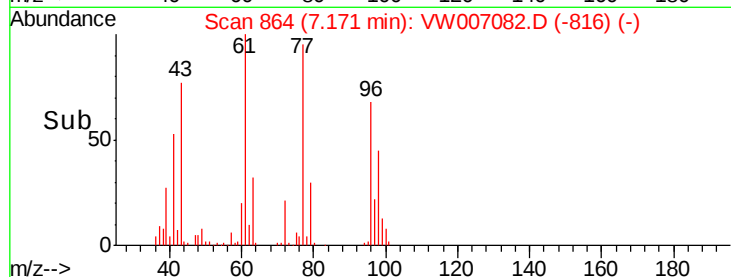
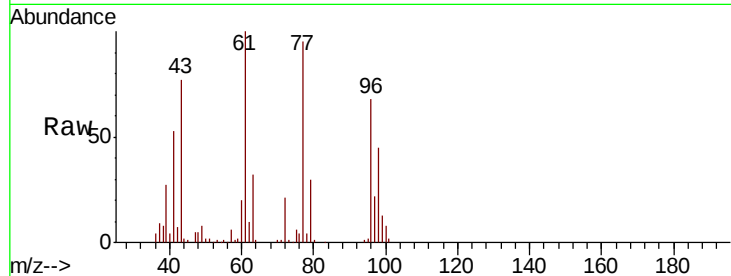
VSTDCCC050

Tot Ion: 43 Resp: 65612

Ion Ratio Lower Upper

43 100

72 27.1 21.3 31.9



#26

2,2-Dichloropropane

Concen: 50.398 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007082.D

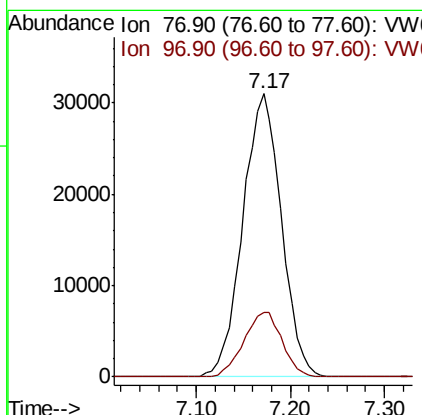
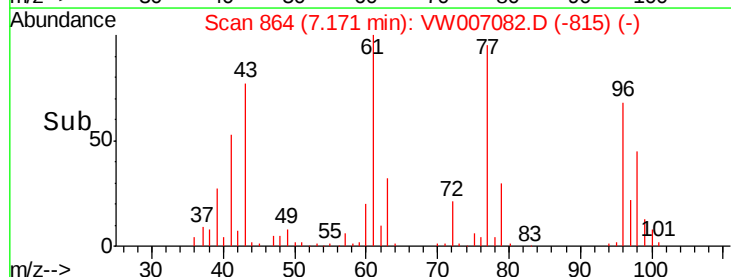
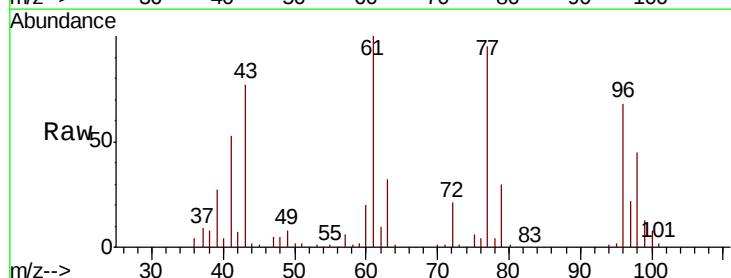
Acq: 27 Nov 2018 12:36

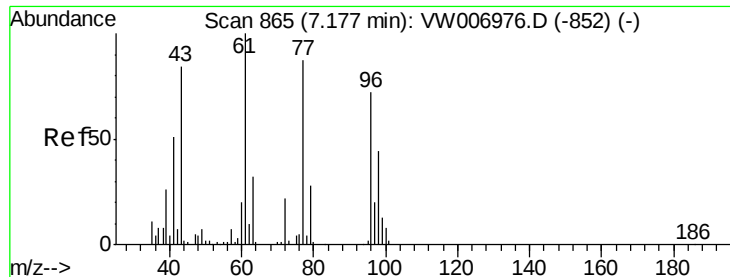
Tgt Ion: 77 Resp: 88780

Ion Ratio Lower Upper

77 100

97 22.9 11.4 34.1



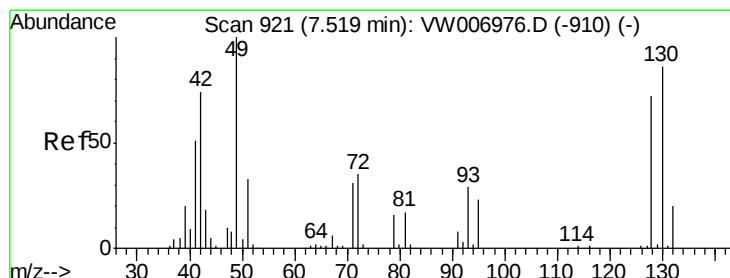
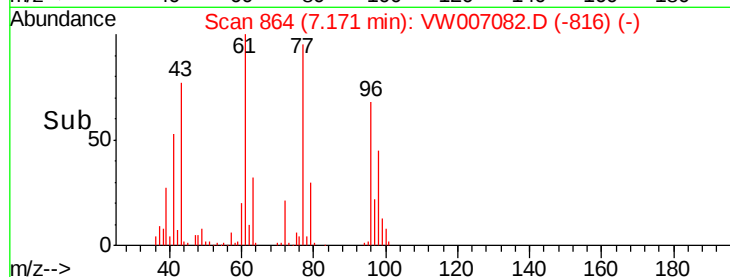
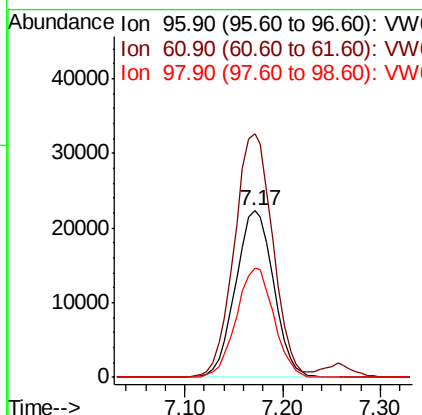
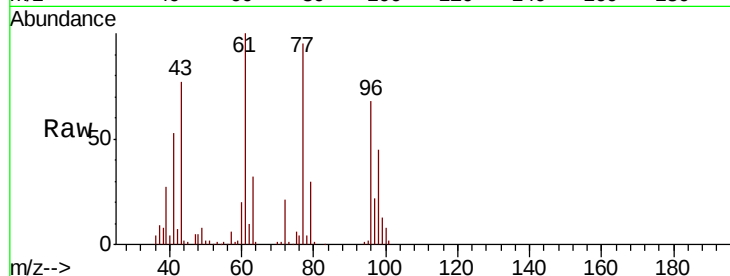


#27

cis-1,2-Dichloroethene  
Concen: 48.663 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.01 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

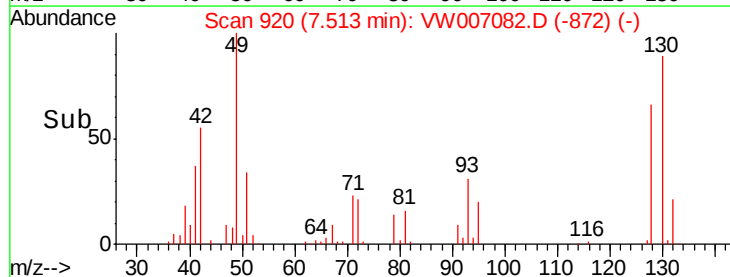
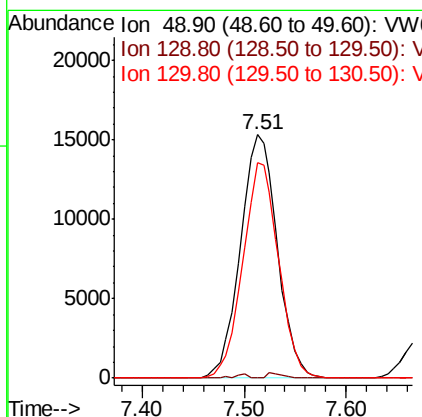
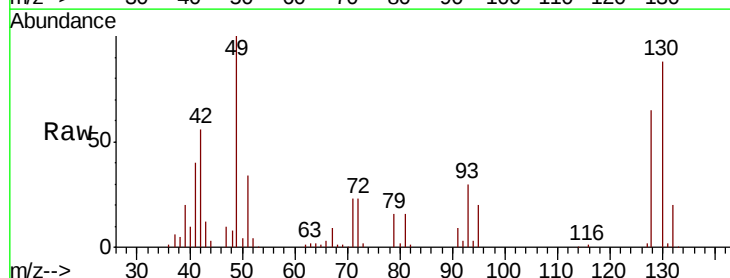
Tot Ion: 96 Resp: 60214  
Ion Ratio Lower Upper  
96 100  
61 148.0 0.0 292.6  
98 64.6 0.0 129.8

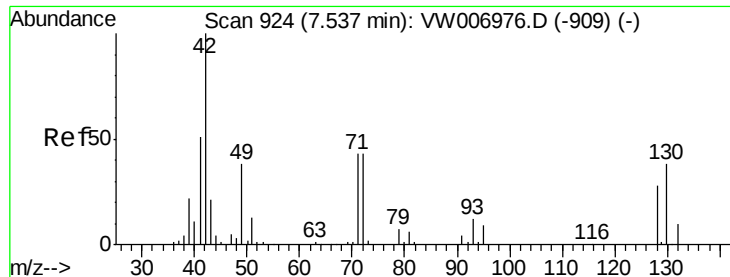


#28

Bromochloromethane  
Concen: 52.551 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 49 Resp: 38475  
Ion Ratio Lower Upper  
49 100  
129 0.5 0.0 2.0  
130 85.6 69.0 103.4

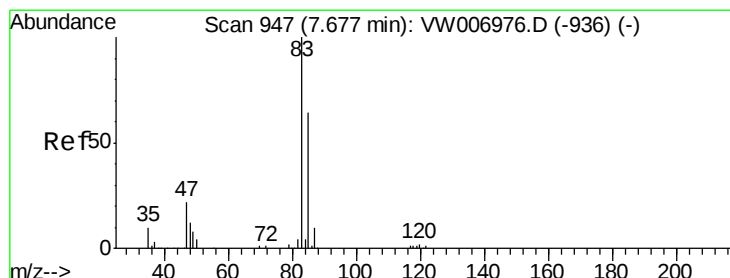
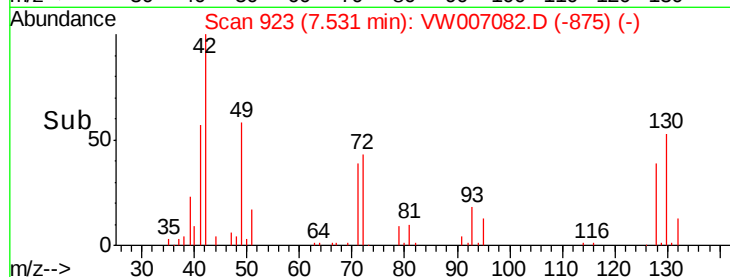
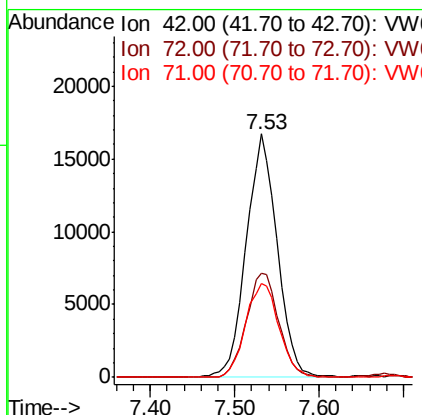
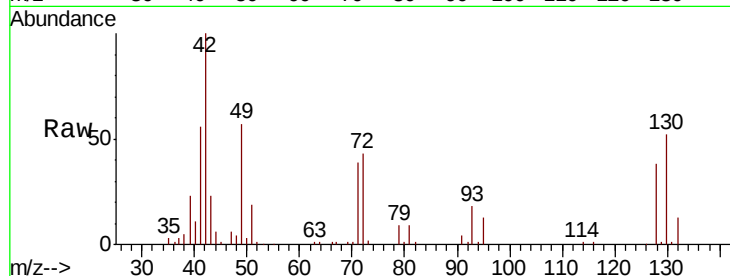




#29  
Tetrahydrofuran  
Concen: 239.859 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

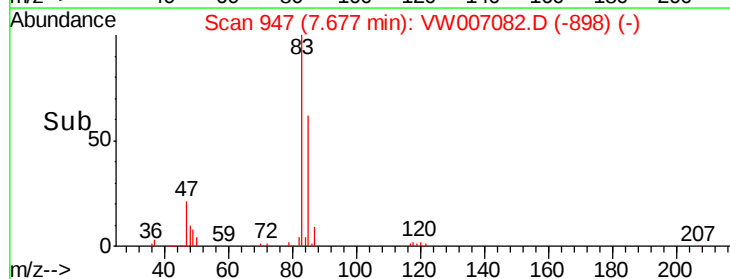
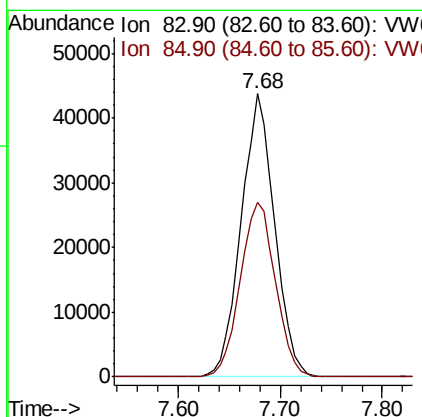
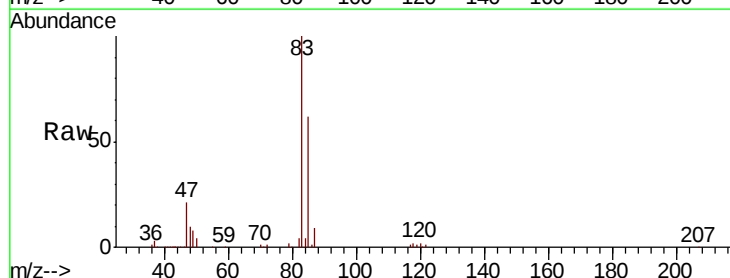
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

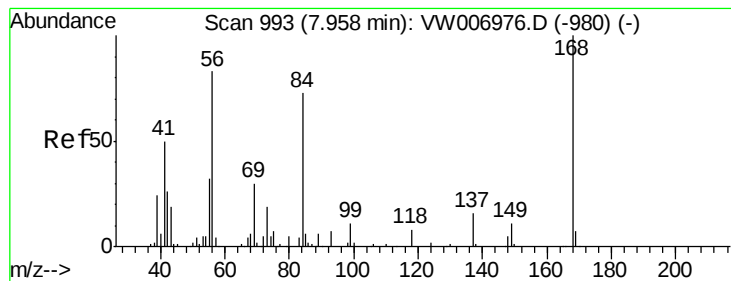
Tot Ion: 42 Resp: 41676  
Ion Ratio Lower Upper  
42 100  
72 44.6 36.2 54.4  
71 41.2 33.8 50.8



#30  
Chloroform  
Concen: 47.797 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 83 Resp: 99472  
Ion Ratio Lower Upper  
83 100  
85 61.6 50.9 76.3





#31

Cyclohexane

Concen: 47.284 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

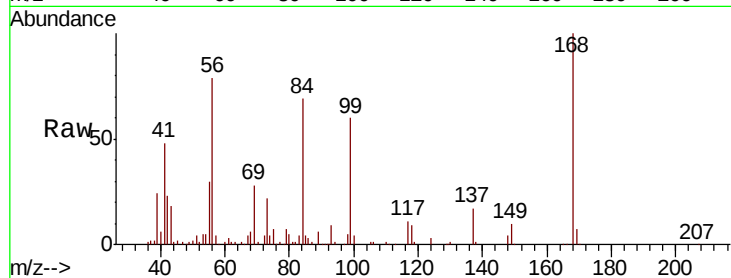
Tot Ion: 56 Resp: 98247

Ion Ratio Lower Upper

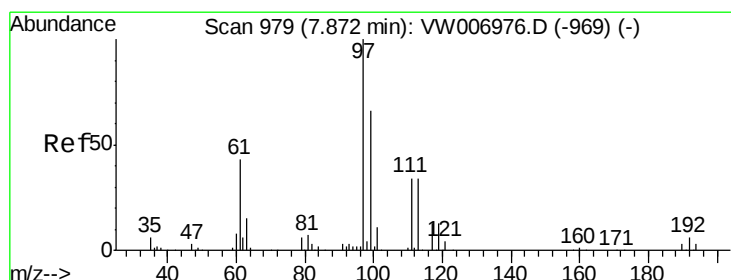
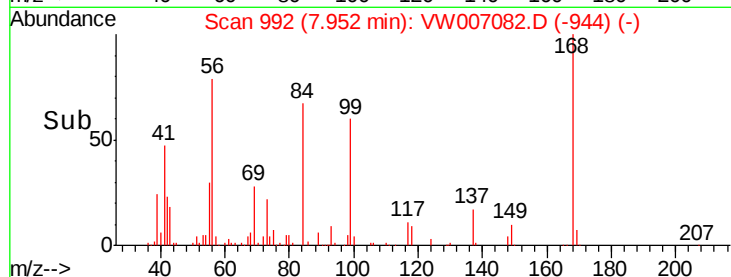
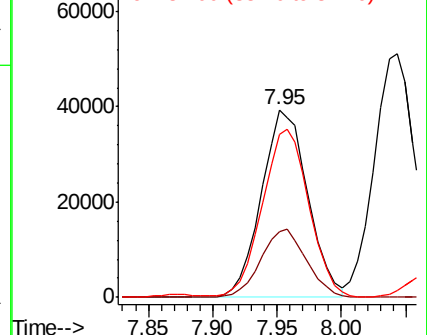
56 100

69 35.2 29.1 43.7

84 86.0 70.6 105.8



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 50.719 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

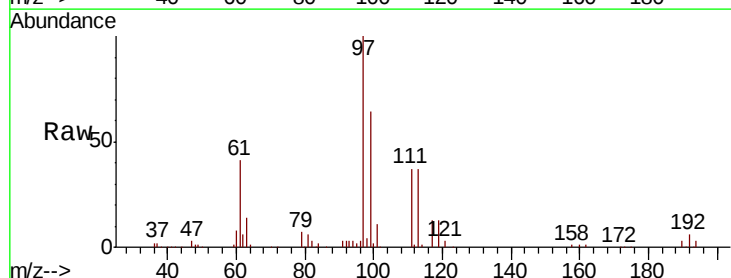
Tgt Ion: 97 Resp: 95075

Ion Ratio Lower Upper

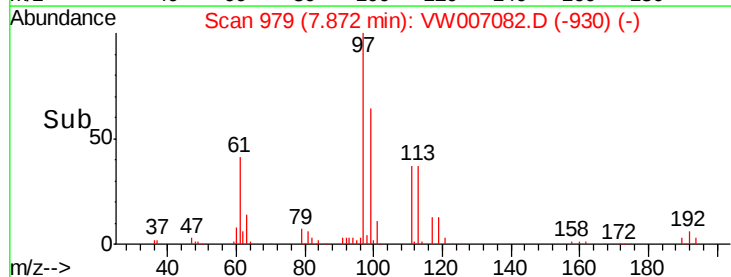
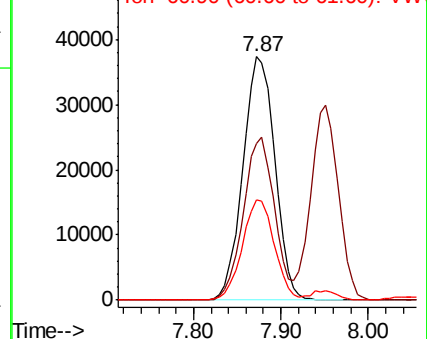
97 100

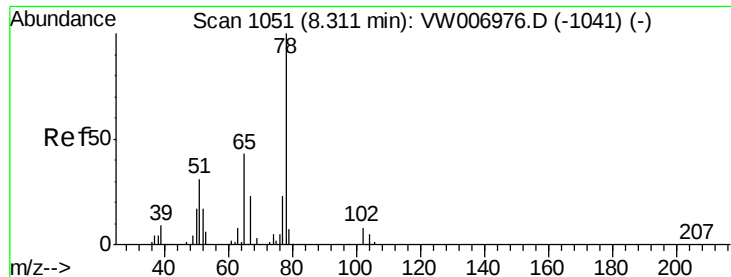
99 65.5 51.9 77.9

61 41.0 33.4 50.2



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

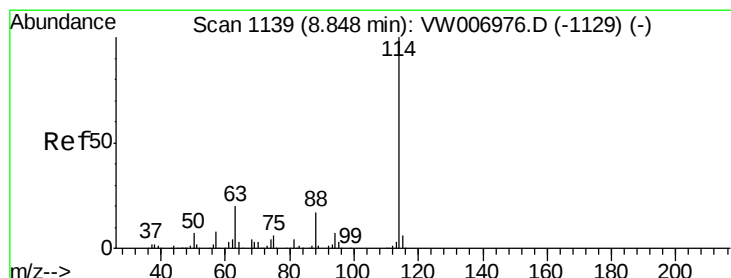
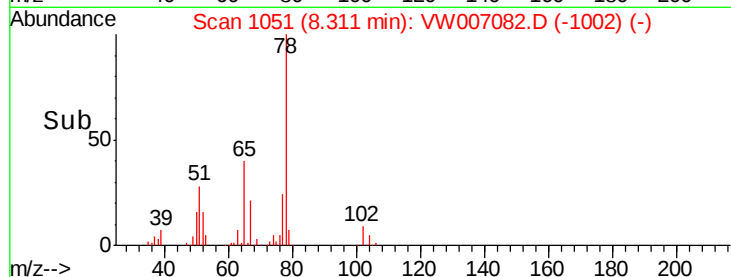
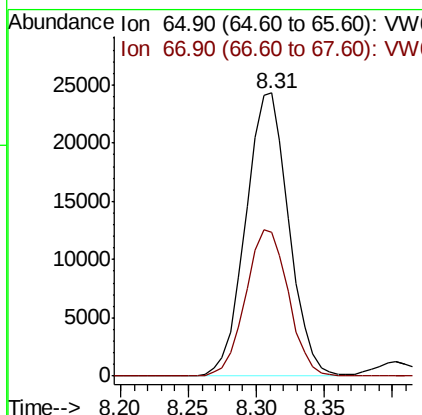
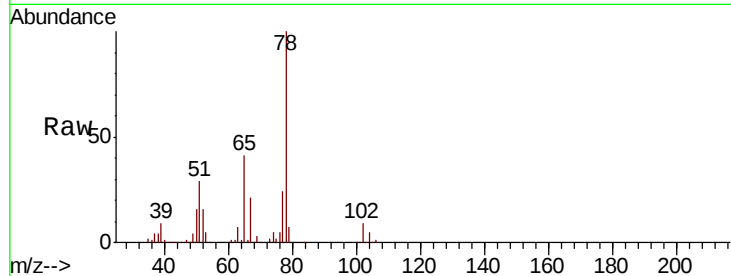




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.873 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

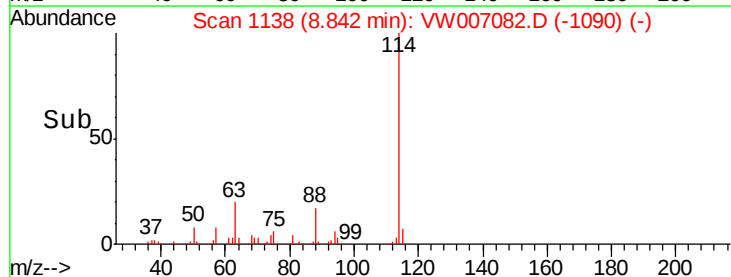
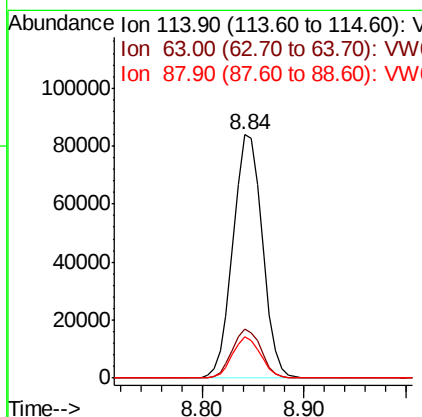
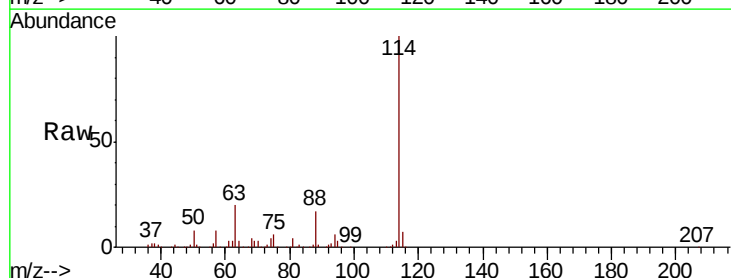
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

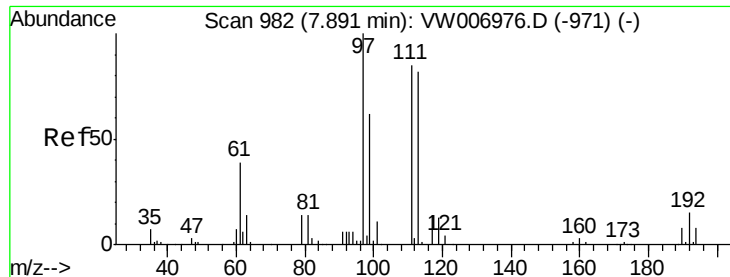
Tot Ion: 65 Resp: 53807  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.01 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 114 Resp: 167625  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.4  
 88 16.8 0.0 34.2

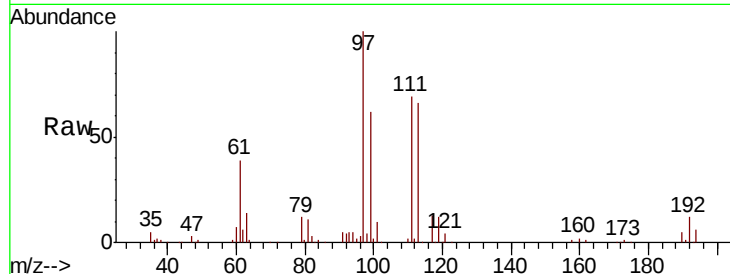




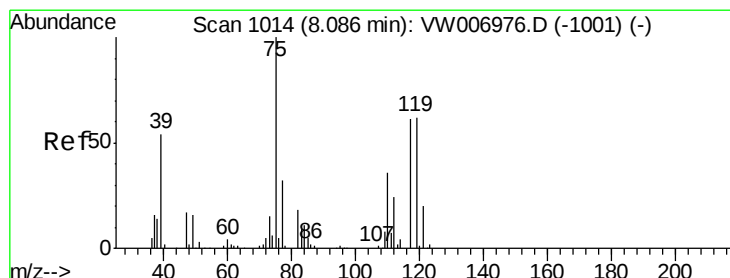
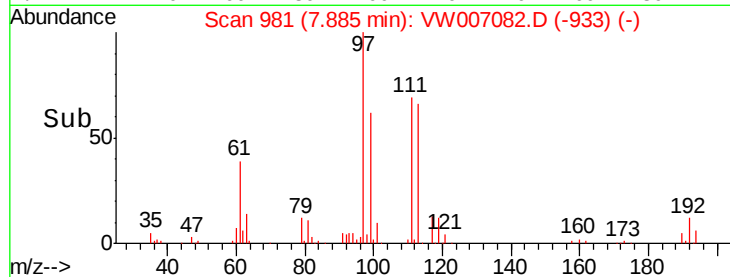
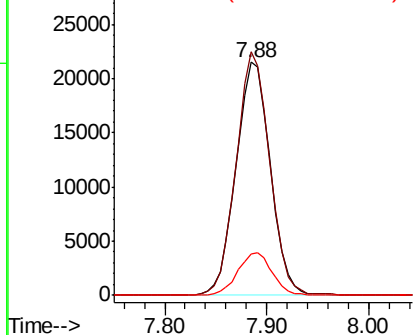
#35  
 Dibromofluoromethane  
 Concen: 53.242 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tot Ion:113 Resp: 50400  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.0 121.6  
 192 18.2 15.0 22.6

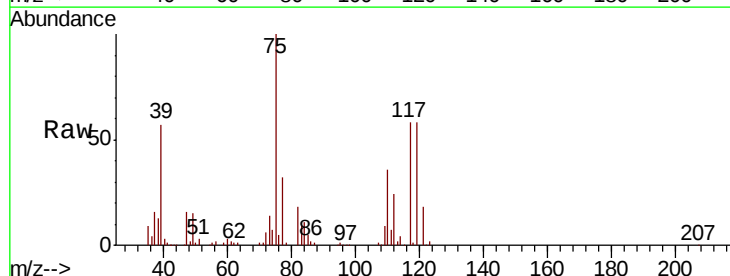


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

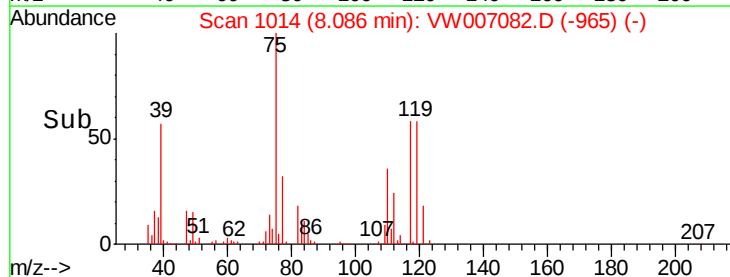
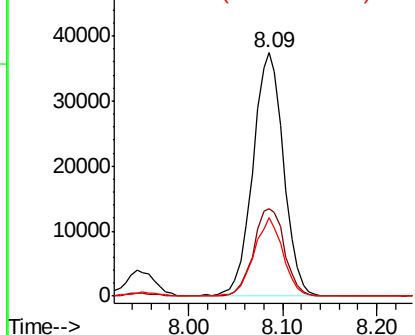


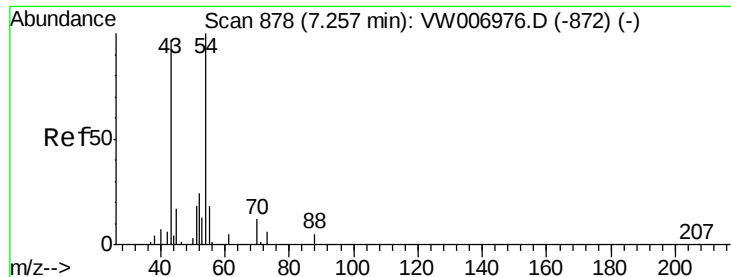
#36  
 1,1-Dichloropropene  
 Concen: 52.175 ug/l  
 RT: 8.09 min Scan# 1014  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 75 Resp: 85465  
 Ion Ratio Lower Upper  
 75 100  
 110 36.2 18.0 54.0  
 77 30.7 24.9 37.3



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

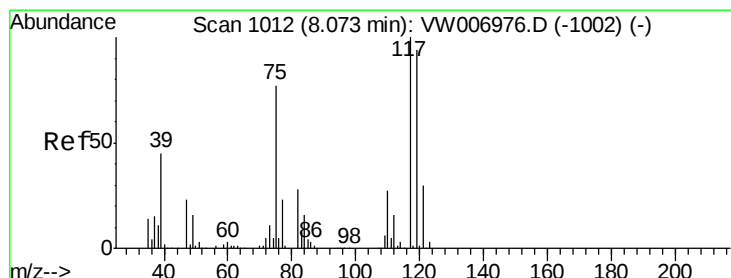
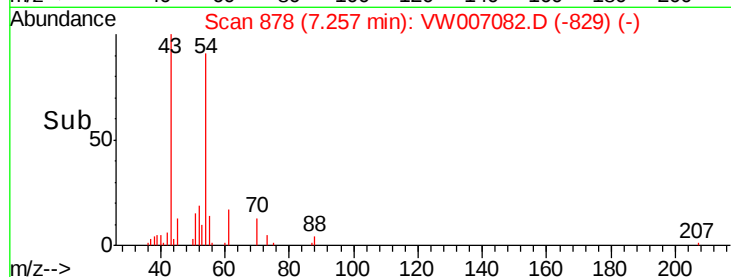
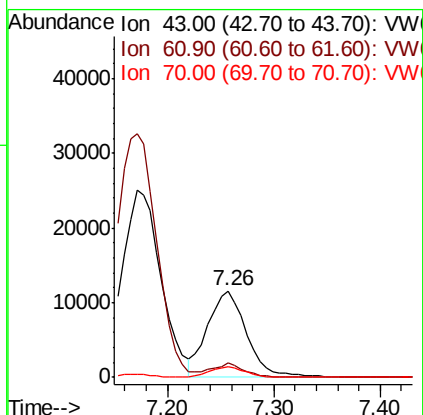
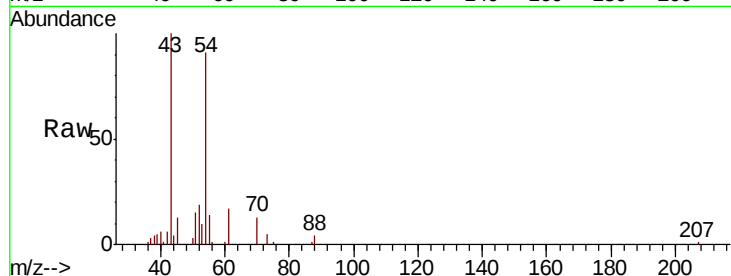




#37  
Ethyl Acetate  
Concen: 48.962 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

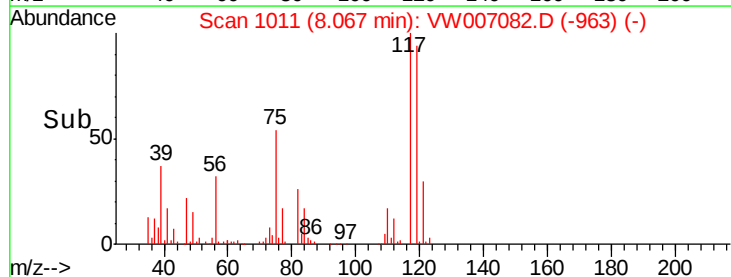
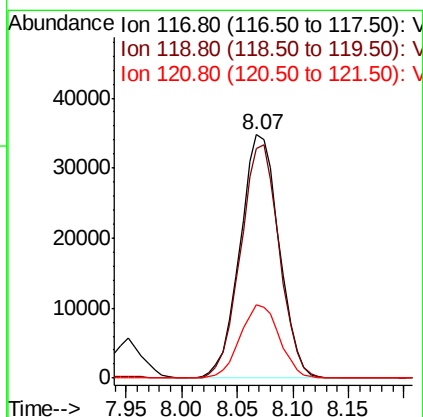
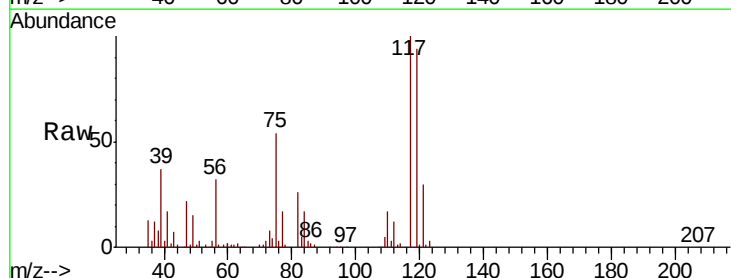
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

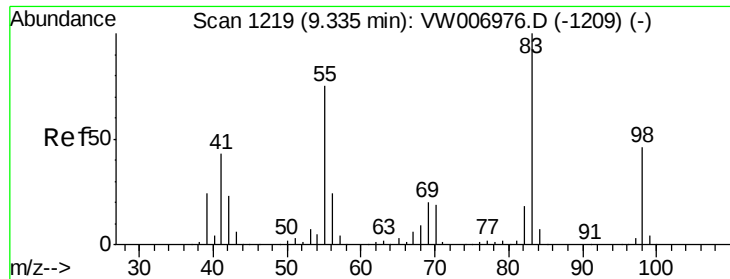
Tot Ion: 43 Resp: 29063  
Ion Ratio Lower Upper  
43 100  
61 14.0 10.4 15.6  
70 11.7 8.8 13.2



#38  
Carbon Tetrachloride  
Concen: 54.084 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 117 Resp: 84835  
Ion Ratio Lower Upper  
117 100  
119 94.4 74.9 112.3  
121 30.4 23.6 35.4

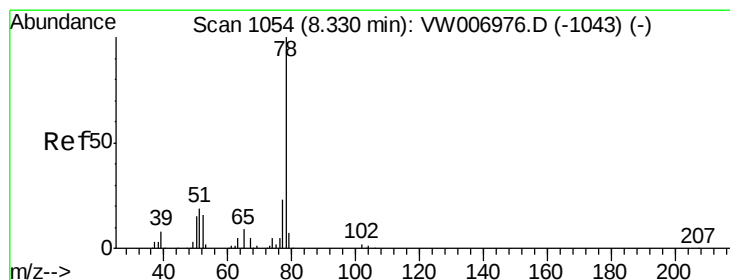
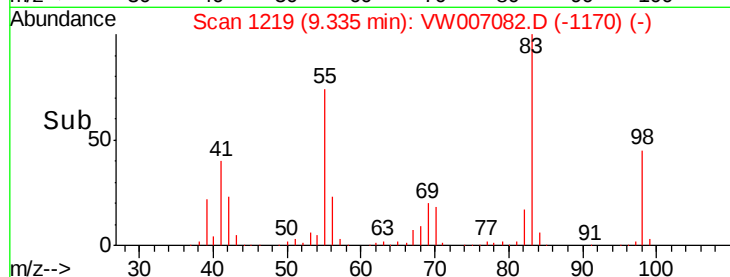
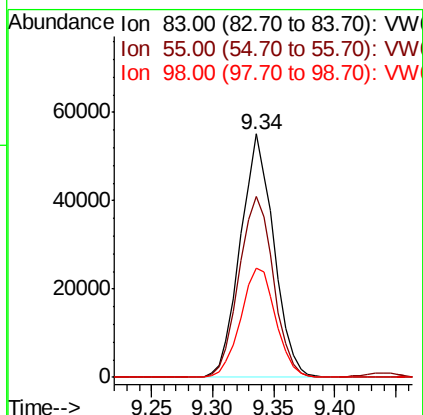
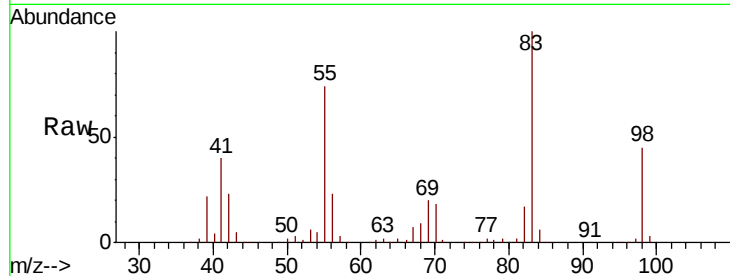




#39  
Methvlcvclohexane  
Concen: 51.051 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

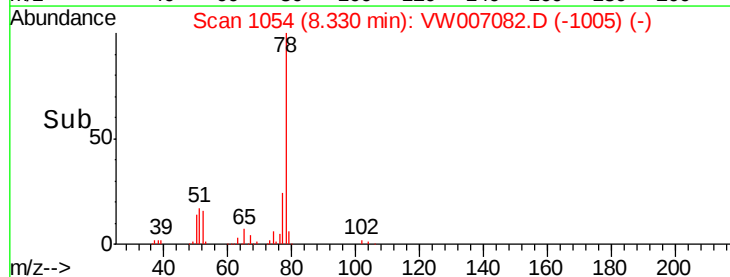
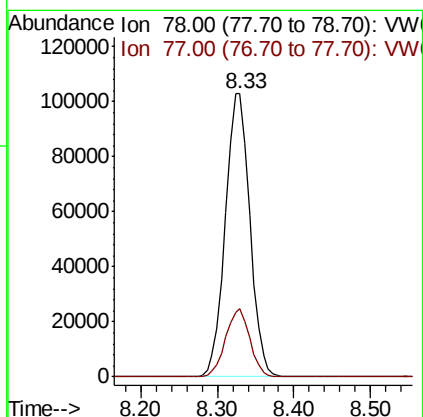
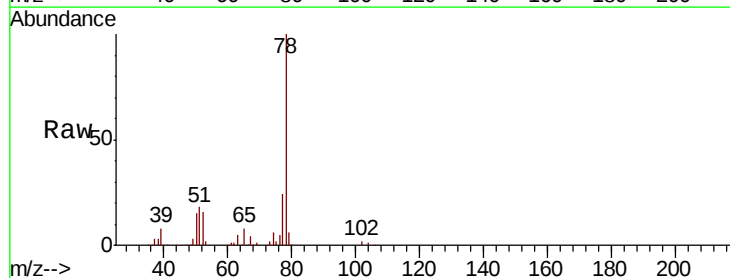
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

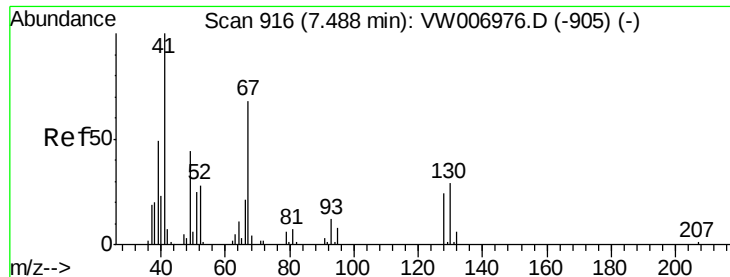
Tot Ion: 83 Resp: 104648  
Ion Ratio Lower Upper  
83 100  
55 74.4 59.6 89.4  
98 45.1 37.1 55.7



#40  
Benzene  
Concen: 51.579 ug/l  
RT: 8.33 min Scan# 1054  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 78 Resp: 228066  
Ion Ratio Lower Upper  
78 100  
77 23.9 18.6 28.0

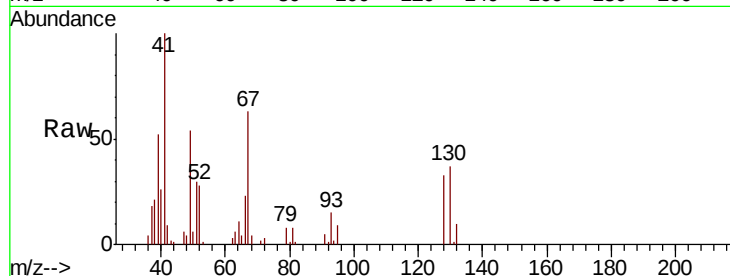




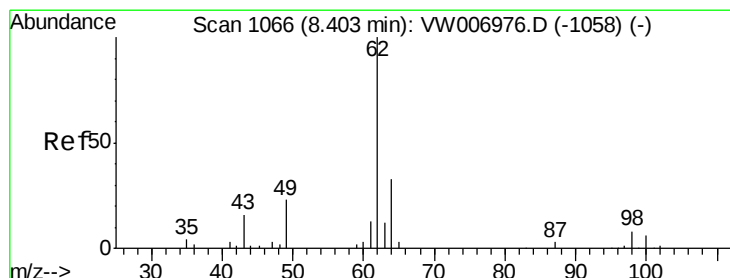
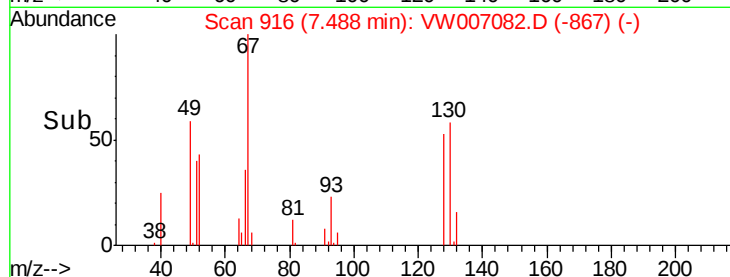
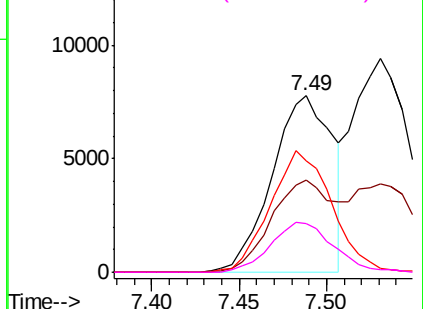
#41  
Methacrylonitrile  
Concen: 50.954 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 18783 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 52.8  | 48.6  | 73.0  |
| 67       | 70.1  | 59.8  | 89.8  |
| 52       | 29.1  | 24.8  | 37.2  |

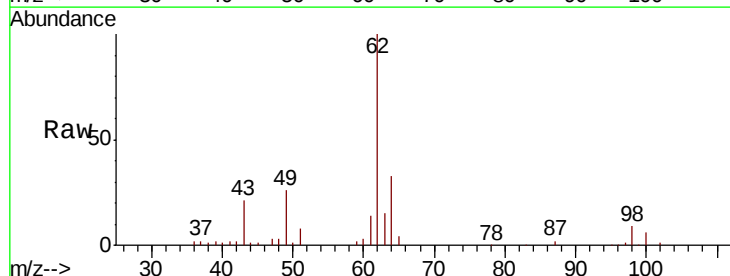


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

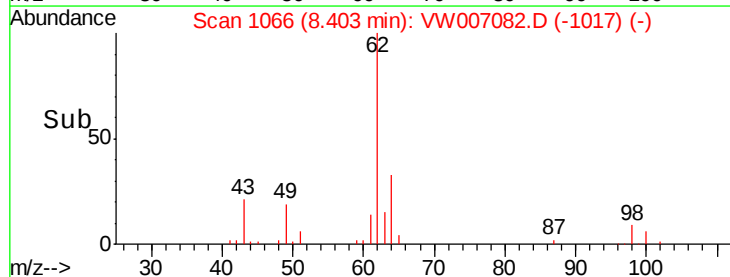
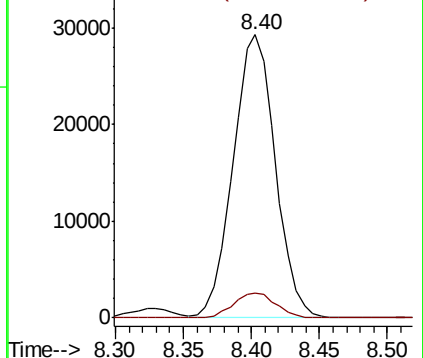


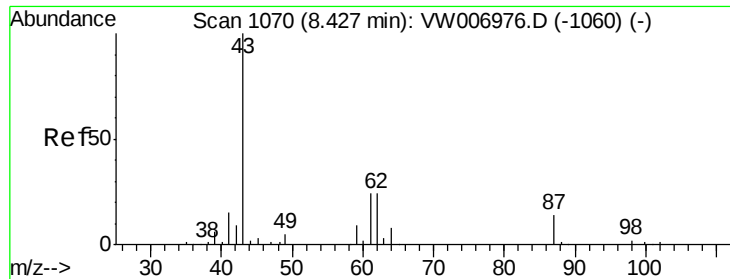
#42  
1,2-Dichloroethane  
Concen: 49.283 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 63266 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.8   | 0.0   | 18.6  |



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





#43

Isopropyl Acetate

Concen: 50.851 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

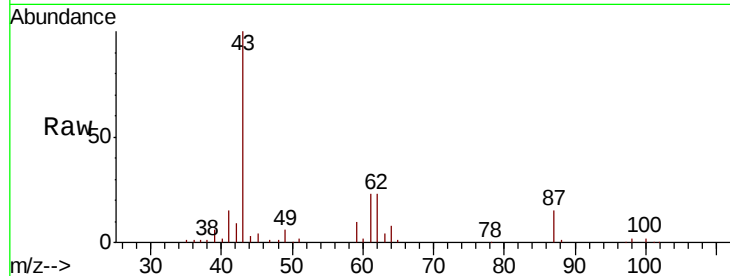
Tot Ion: 43 Resp: 57521

Ion Ratio Lower Upper

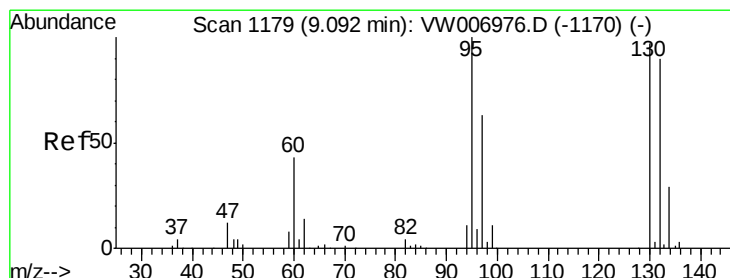
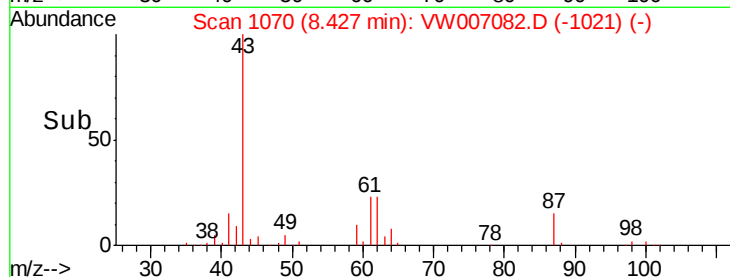
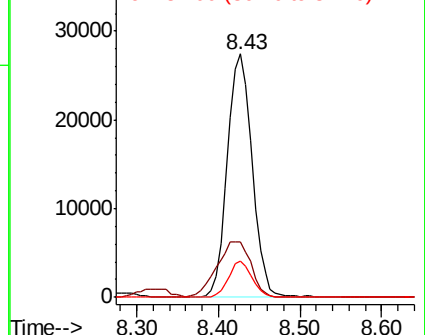
43 100

61 31.3 26.1 39.1

87 14.0 11.2 16.8



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



#44

Trichloroethene

Concen: 51.284 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW007082.D

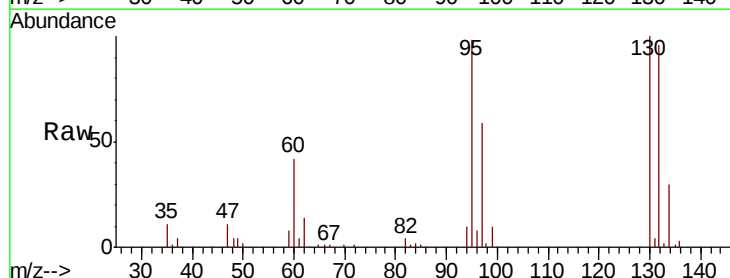
Acq: 27 Nov 2018 12:36

Tgt Ion:130 Resp: 63567

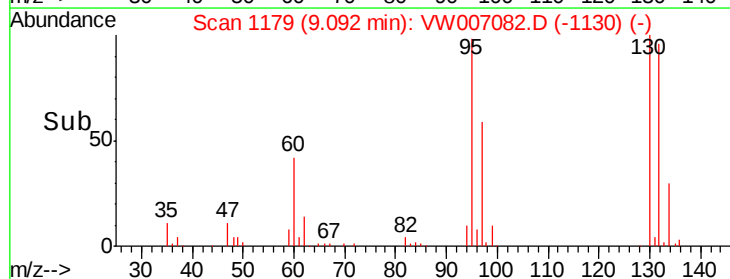
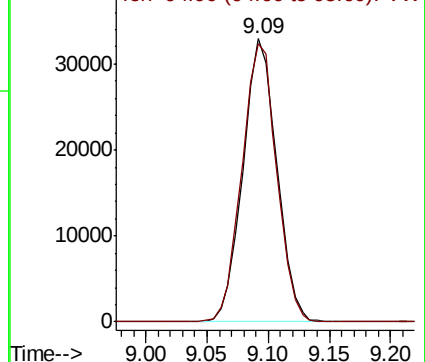
Ion Ratio Lower Upper

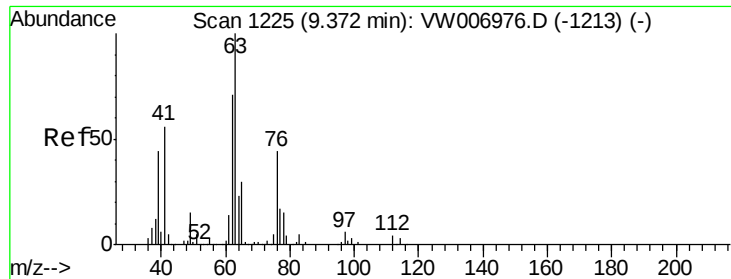
130 100

95 98.2 0.0 206.4



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





#45

1,2-Dichloropropane

Concen: 50.613 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

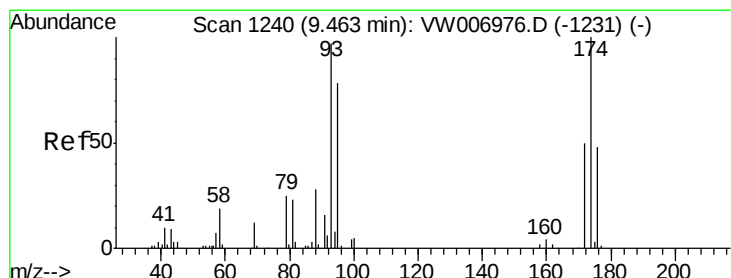
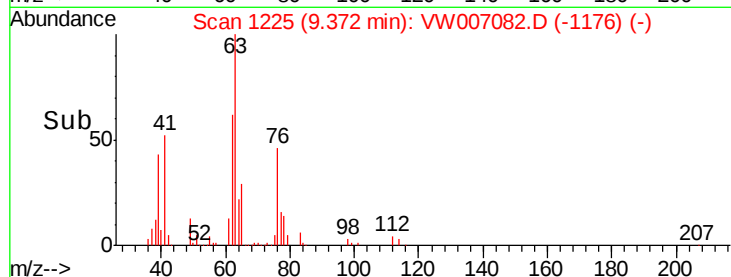
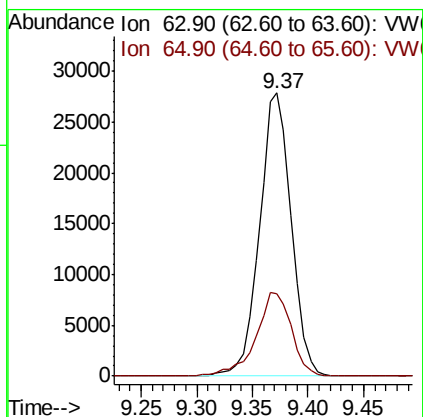
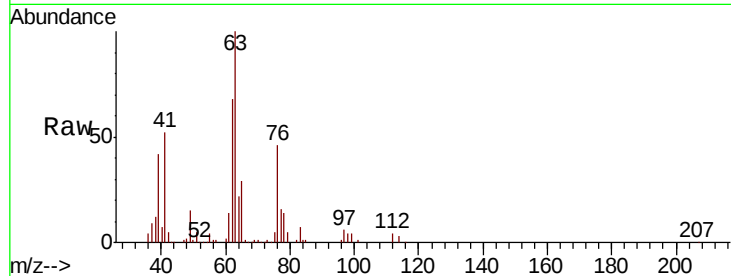
VSTDCCC050

Tot Ion: 63 Resp: 55167

Ion Ratio Lower Upper

63 100

65 29.2 24.4 36.6



#46

Dibromomethane

Concen: 50.030 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

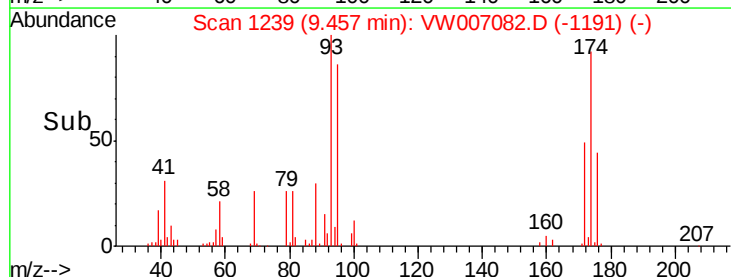
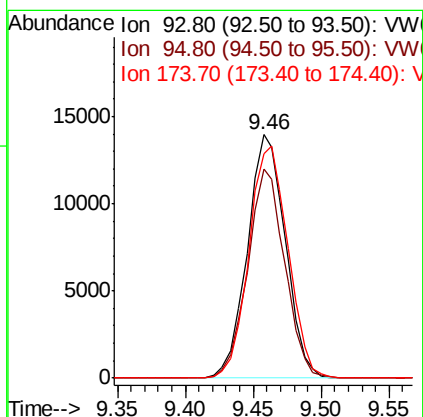
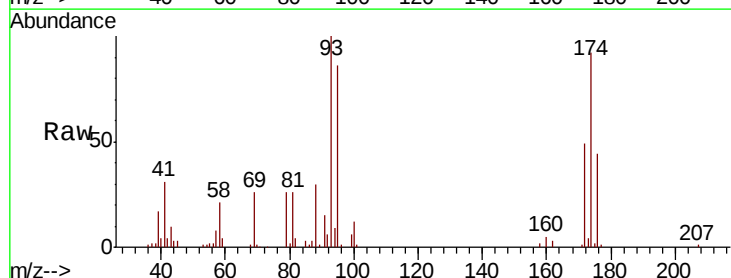
Tgt Ion: 93 Resp: 27308

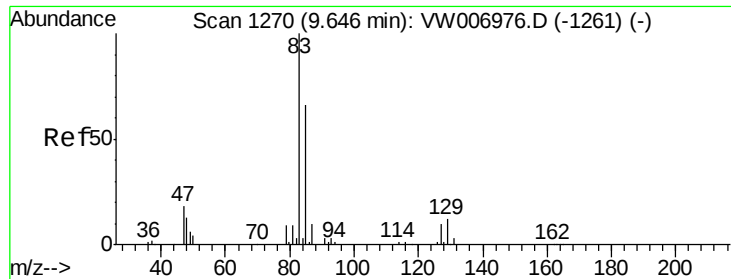
Ion Ratio Lower Upper

93 100

95 83.8 66.1 99.1

174 97.9 79.7 119.5

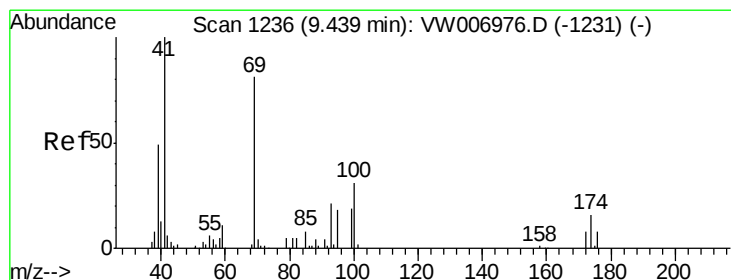
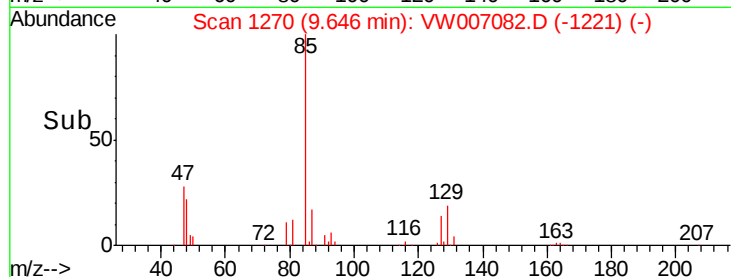
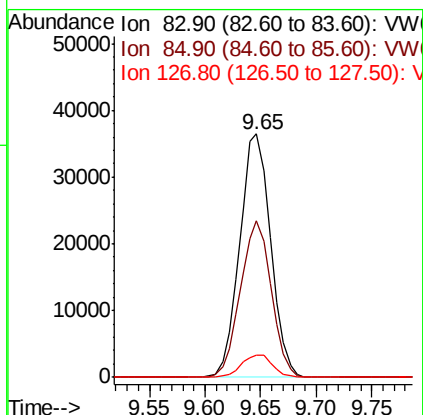
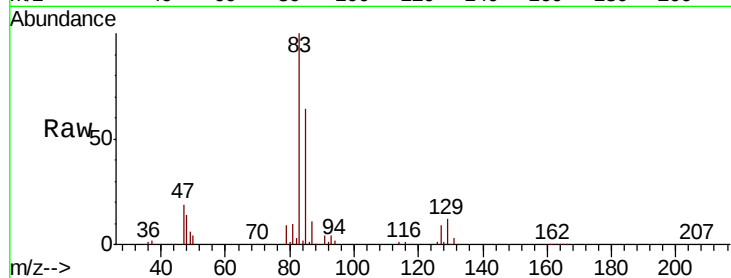




#47  
 Bromodichloromethane  
 Concen: 49.016 ug/l  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

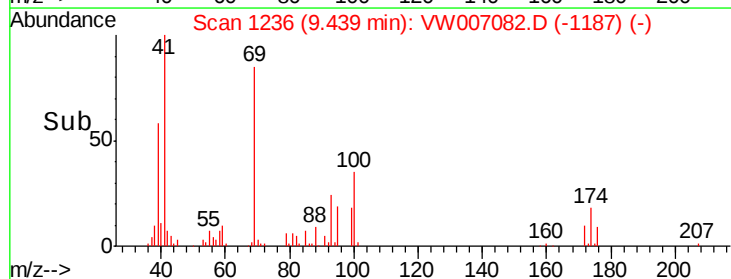
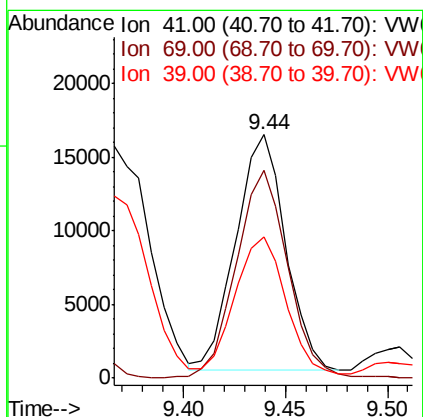
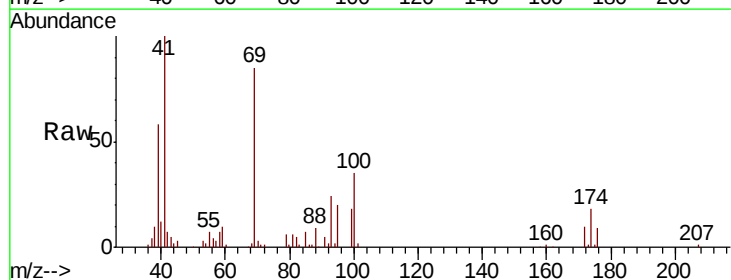
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

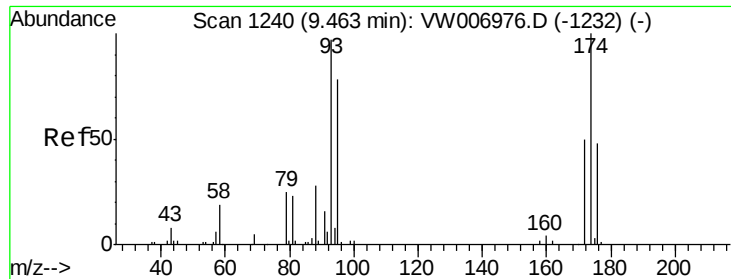
Tot Ion: 83 Resp: 70491  
 Ion Ratio Lower Upper  
 83 100  
 85 64.3 52.9 79.3  
 127 9.0 7.8 11.6



#48  
 Methyl methacrylate  
 Concen: 49.679 ug/l  
 RT: 9.44 min Scan# 1236  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 41 Resp: 27096  
 Ion Ratio Lower Upper  
 41 100  
 69 91.7 71.4 107.0  
 39 59.8 44.8 67.2





#49

1,4-Dioxane

Concen: 1129.814 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

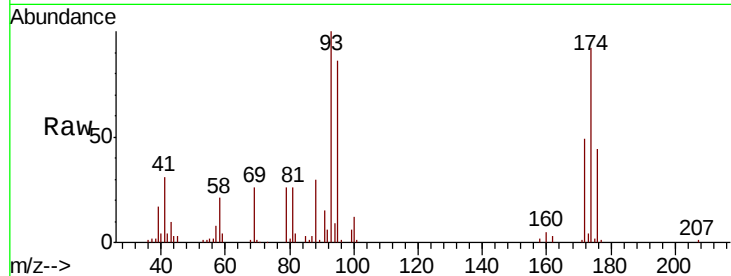
Tot Ion: 88 Resp: 9166

Ion Ratio Lower Upper

88 100

43 32.2 0.0 0.0#

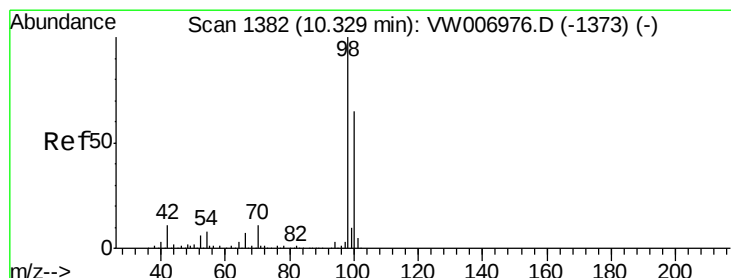
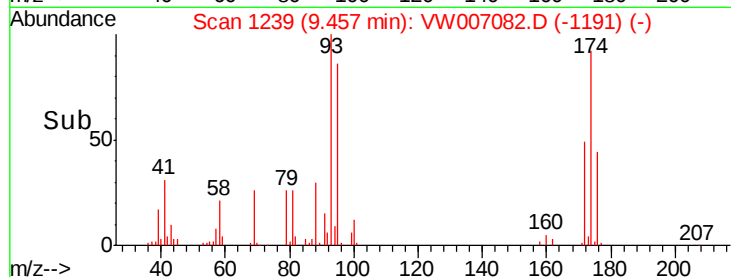
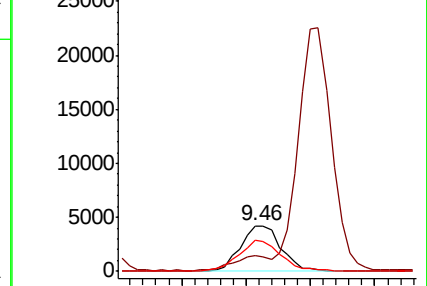
58 70.5 59.0 88.6



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.788 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW007082.D

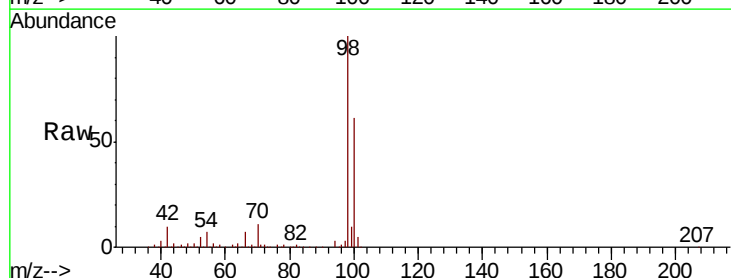
Acq: 27 Nov 2018 12:36

Tgt Ion: 98 Resp: 224842

Ion Ratio Lower Upper

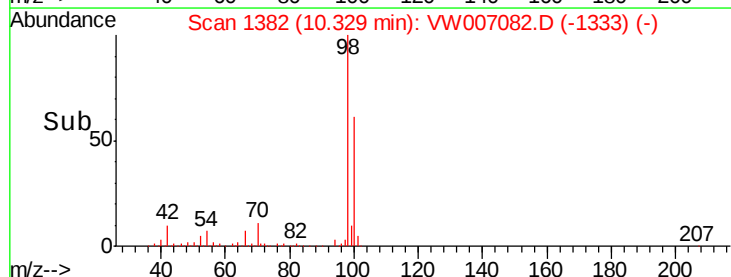
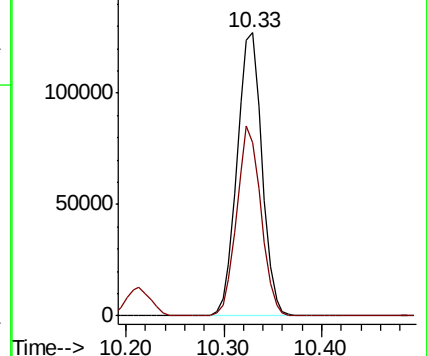
98 100

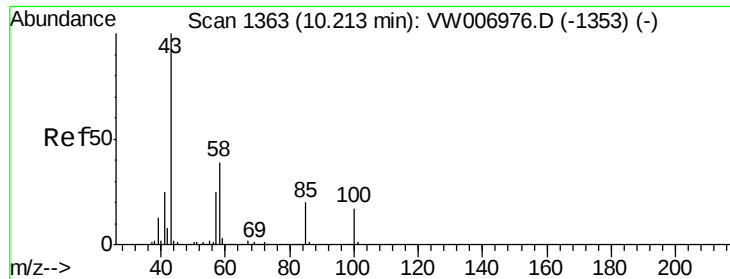
100 65.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 236.605 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

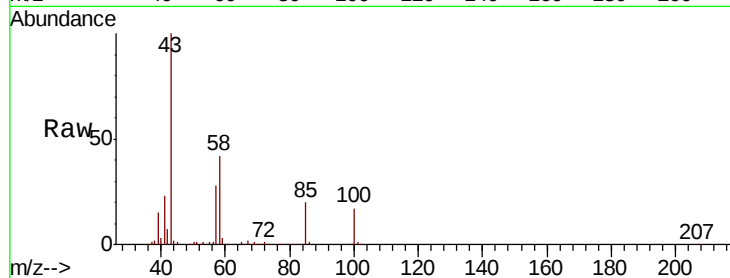
VSTDCCC050

Tot Ion: 43 Resp: 135254

Ion Ratio Lower Upper

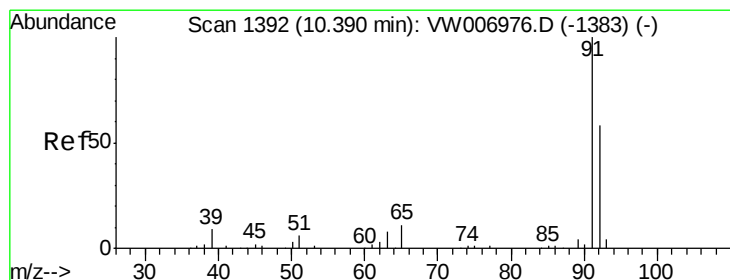
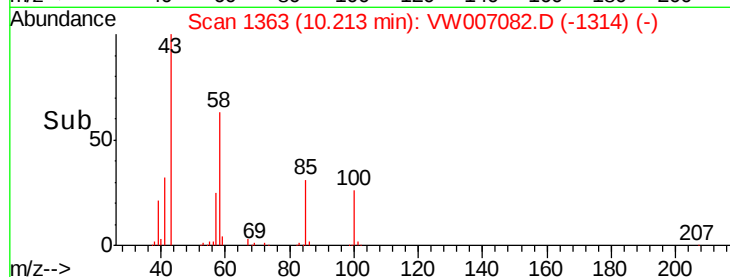
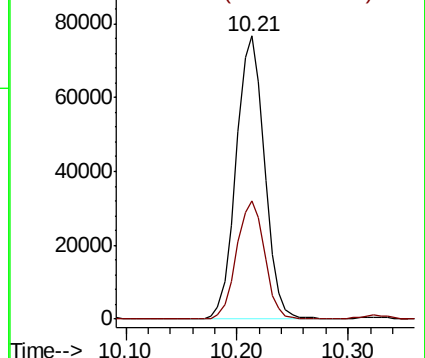
43 100

58 41.4 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 53.046 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007082.D

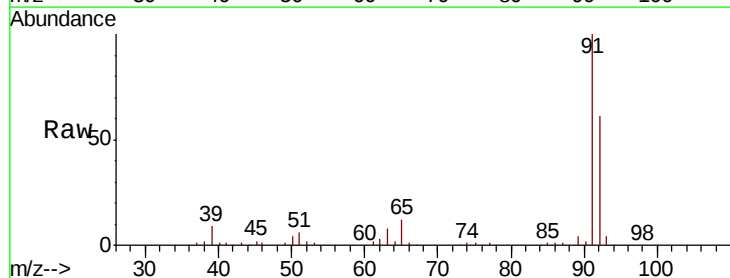
Acq: 27 Nov 2018 12:36

Tgt Ion: 92 Resp: 159622

Ion Ratio Lower Upper

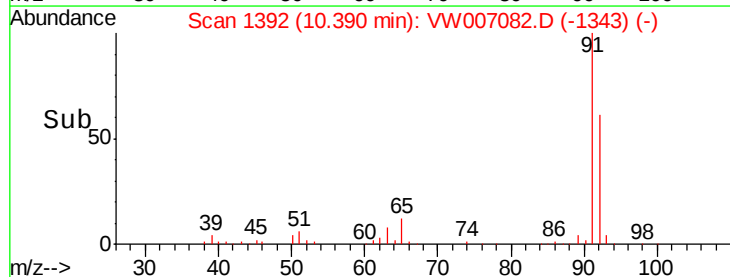
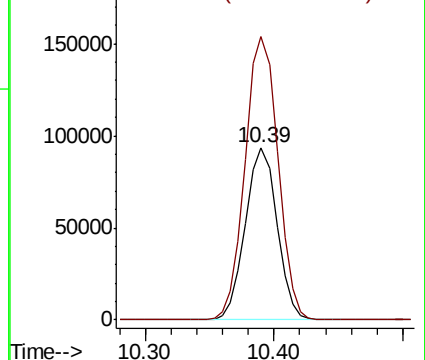
92 100

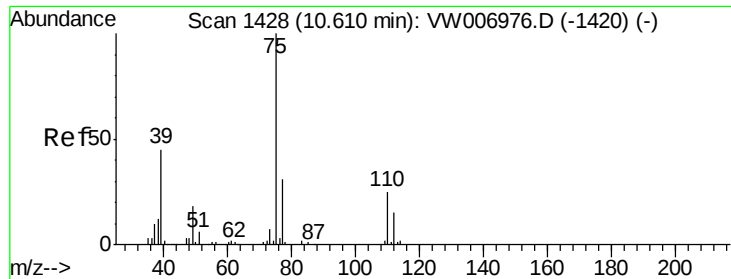
91 170.2 137.3 205.9



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 51.669 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

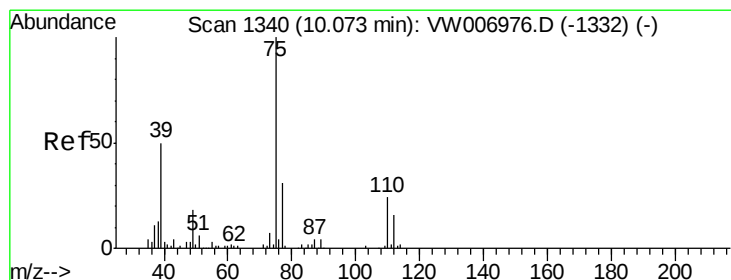
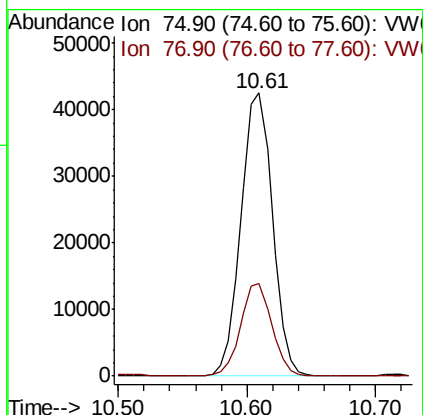
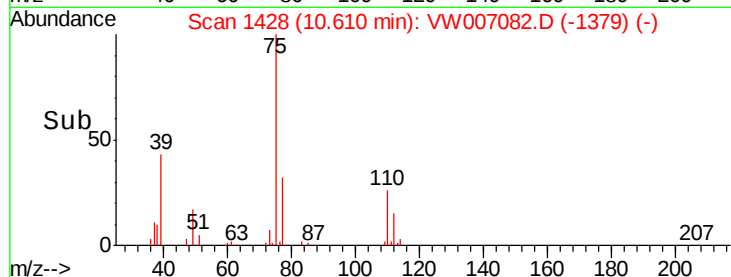
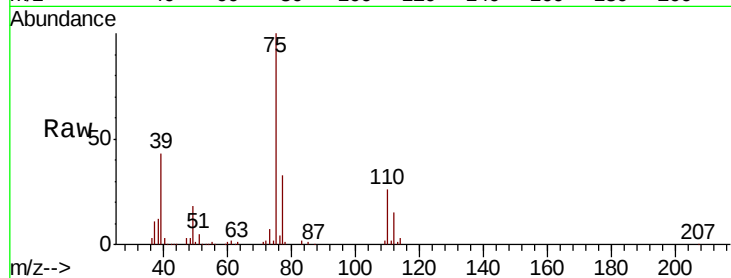
VSTDCCC050

Tot Ion: 75 Resp: 71982

Ion Ratio Lower Upper

75 100

77 32.6 24.7 37.1



#54

cis-1,3-Dichloropropene

Concen: 50.523 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

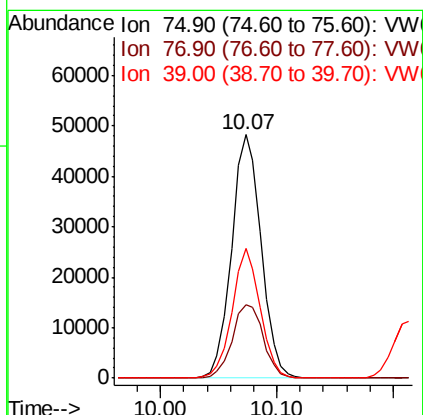
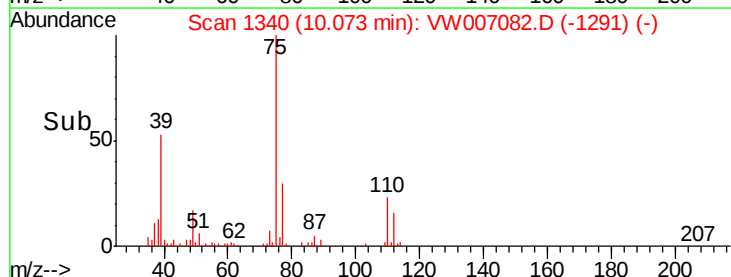
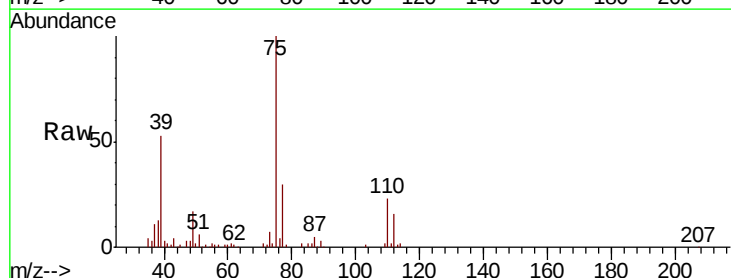
Tgt Ion: 75 Resp: 85034

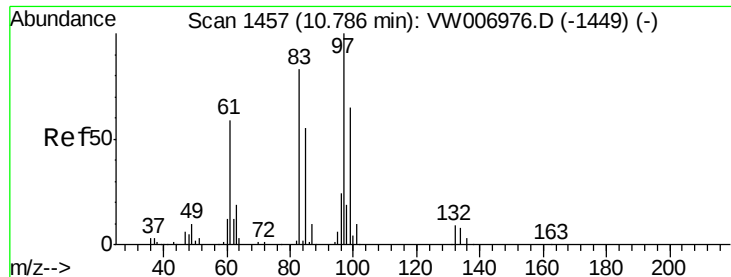
Ion Ratio Lower Upper

75 100

77 30.1 25.0 37.6

39 53.3 39.9 59.9

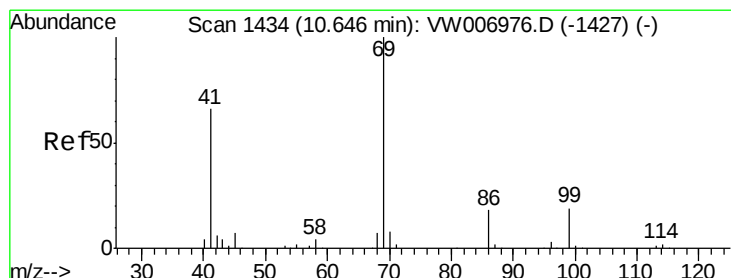
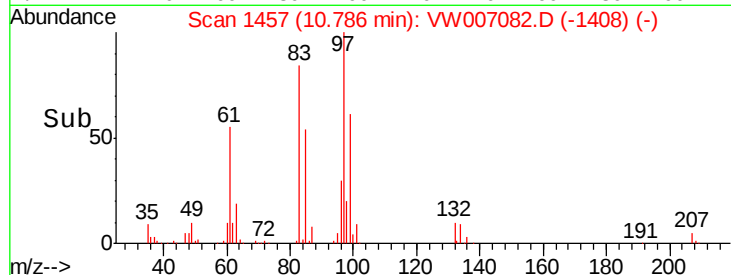
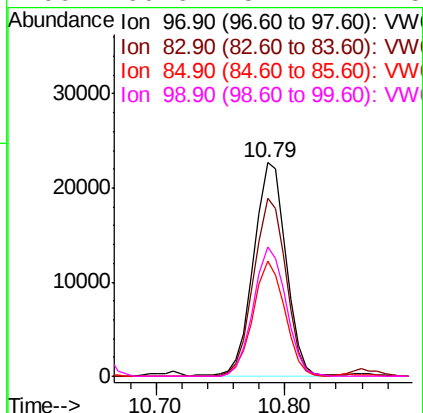
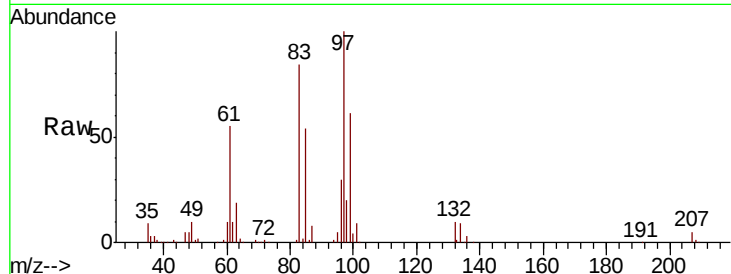




#55  
 1,1,2-Trichloroethane  
 Concen: 49.360 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

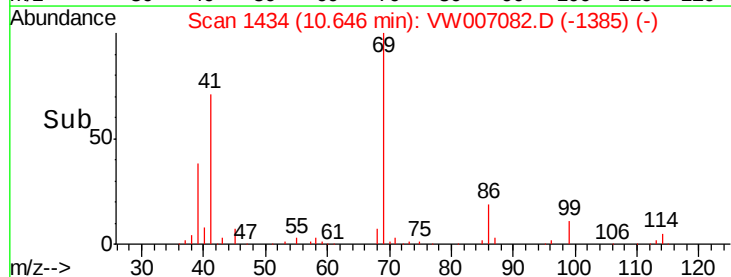
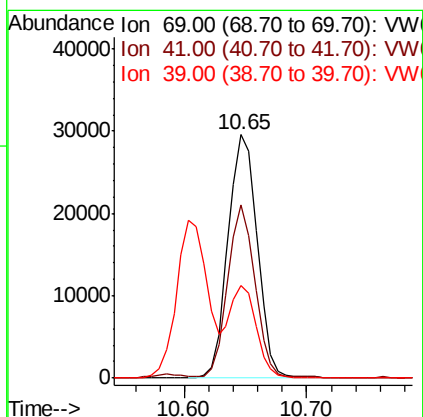
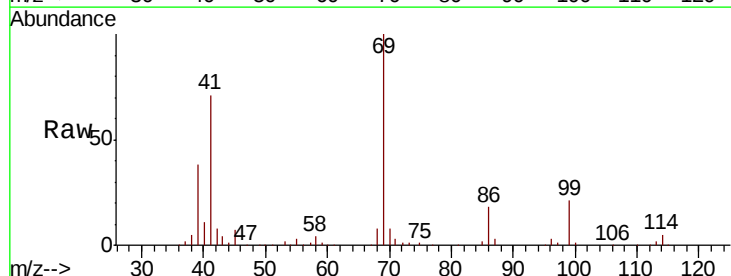
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

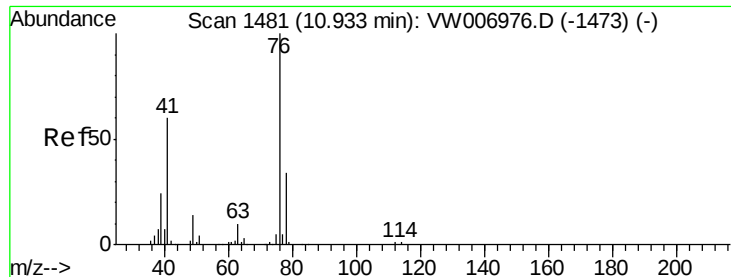
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 39640 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 83.6  | 66.4  | 99.6  |
| 85       | 53.8  | 44.1  | 66.1  |
| 99       | 60.6  | 51.7  | 77.5  |



#56  
 Ethyl methacrylate  
 Concen: 52.347 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 48797 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 66.9  | 53.4  | 80.0  |
| 39       | 35.5  | 28.2  | 42.4  |

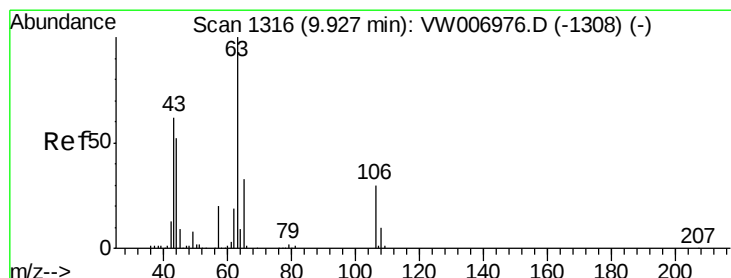
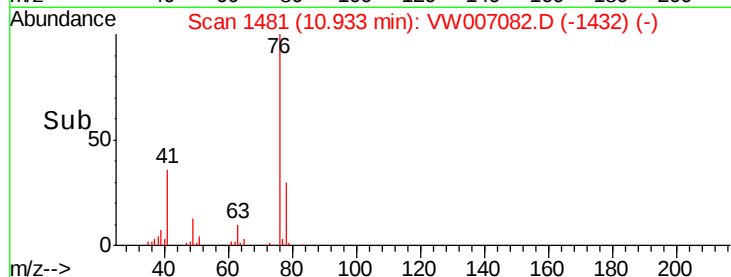
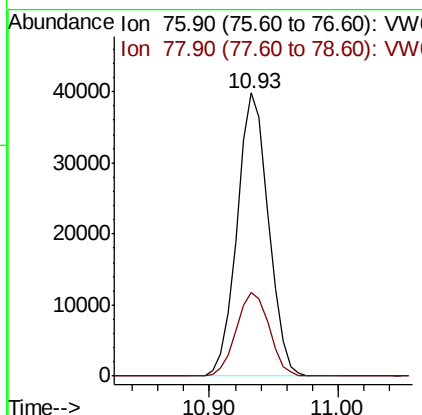
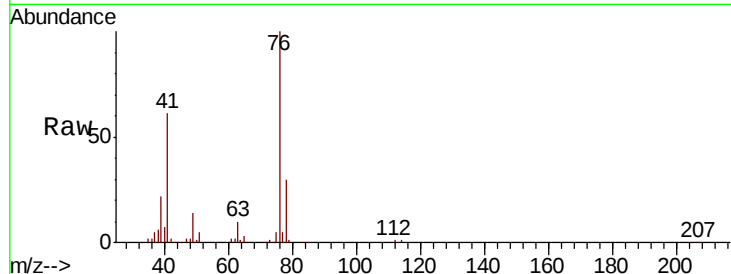




#57  
 1,3-Dichloropropane  
 Concen: 49.807 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

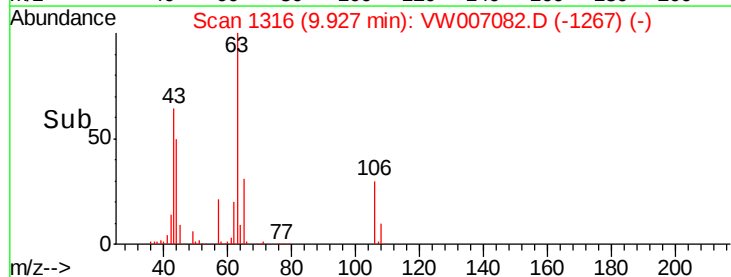
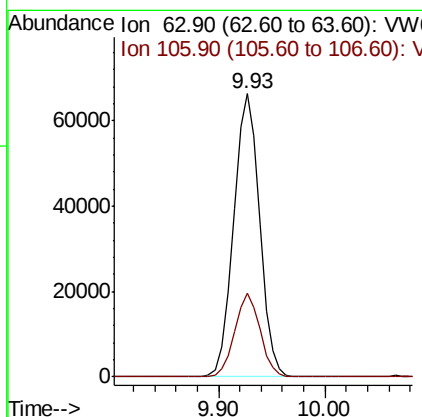
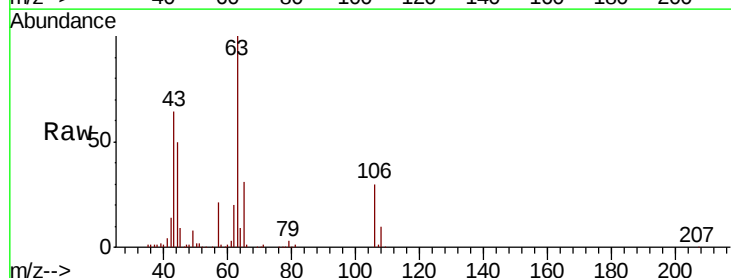
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

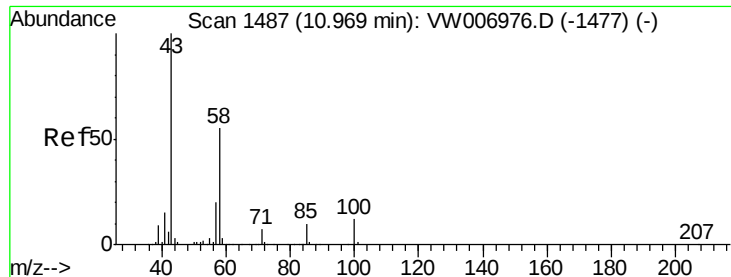
Tot Ion: 76 Resp: 67030  
 Ion Ratio Lower Upper  
 76 100  
 78 31.1 25.8 38.6



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 232.923 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion: 63 Resp: 113461  
 Ion Ratio Lower Upper  
 63 100  
 106 28.9 23.5 35.3

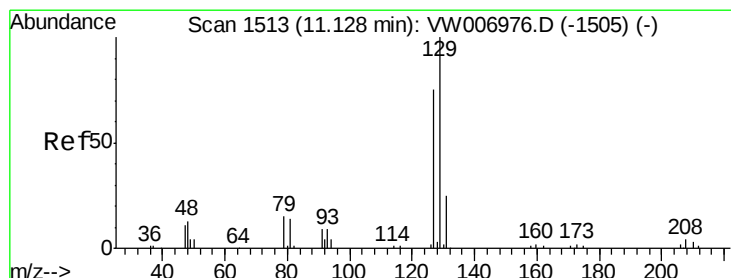
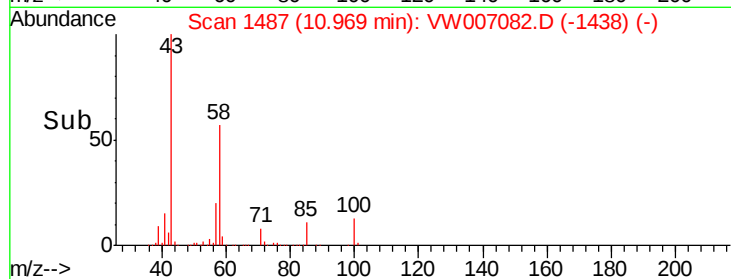
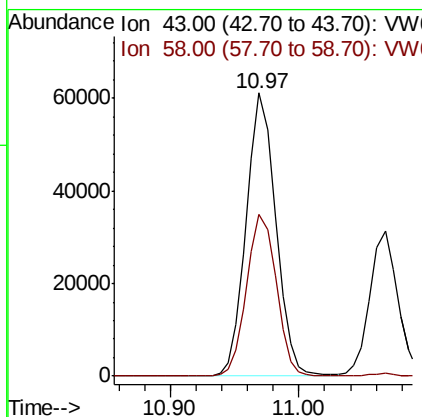
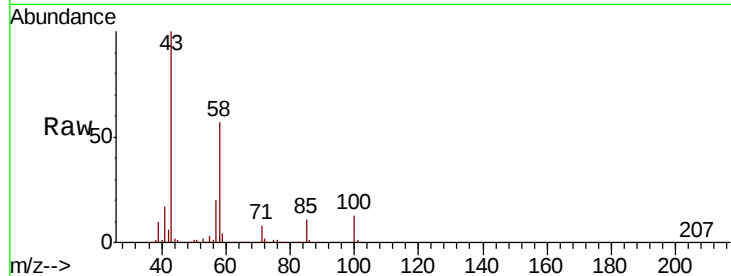




#59  
2-Hexanone  
Concen: 249.218 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

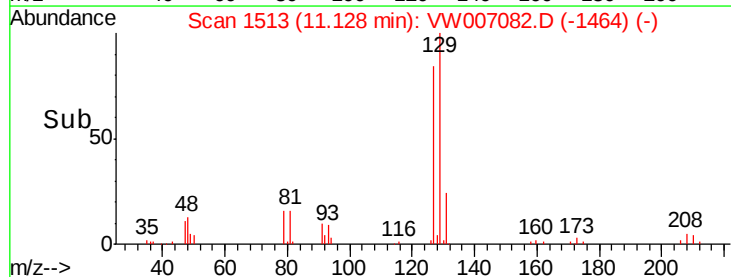
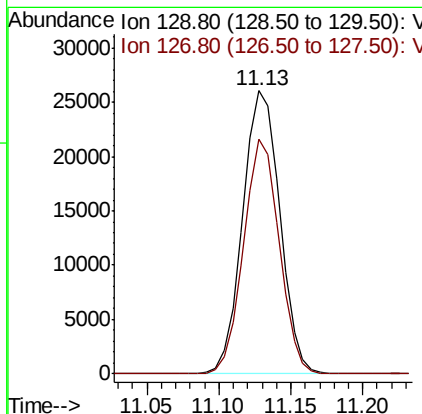
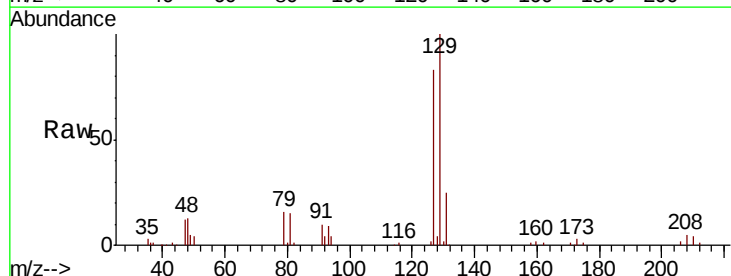
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

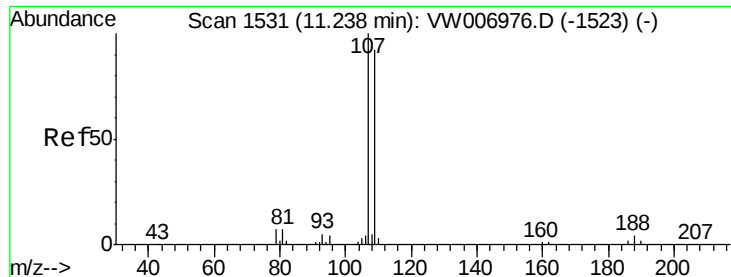
Tot Ion: 43 Resp: 97558  
Ion Ratio Lower Upper  
43 100  
58 56.9 27.3 81.8



#60  
Dibromochloromethane  
Concen: 50.870 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 129 Resp: 46550  
Ion Ratio Lower Upper  
129 100  
127 79.4 38.3 114.8

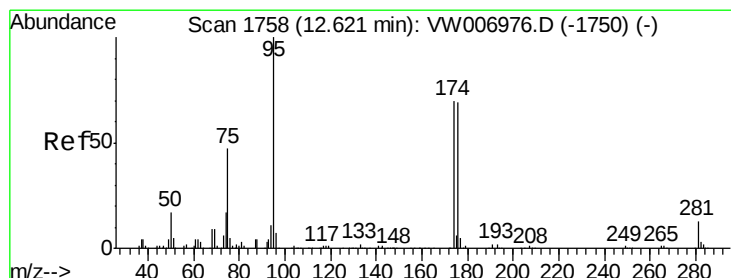
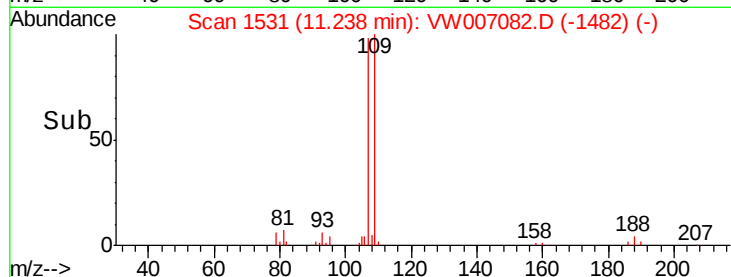
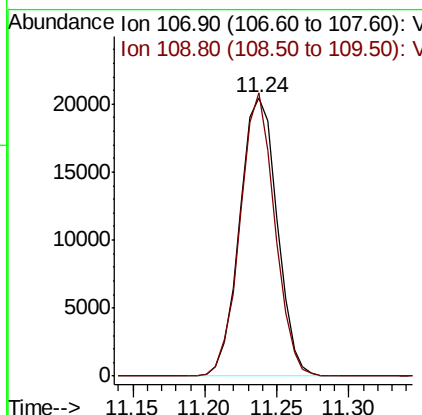
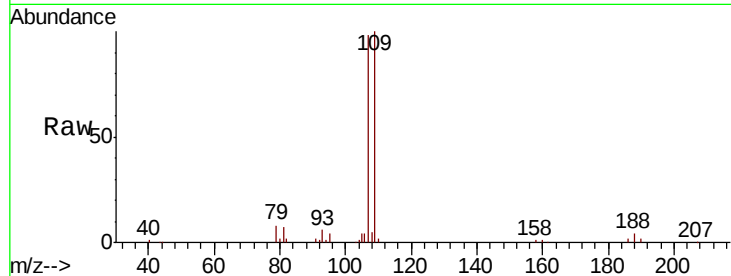




#61  
1,2-Dibromoethane  
Concen: 50.117 ug/l  
RT: 11.24 min Scan# 1531  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

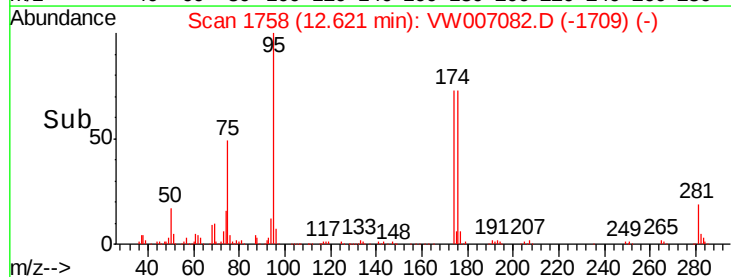
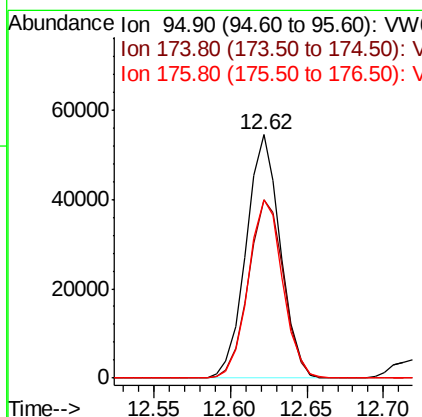
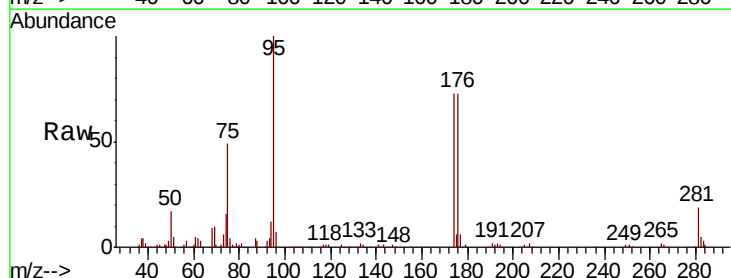
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

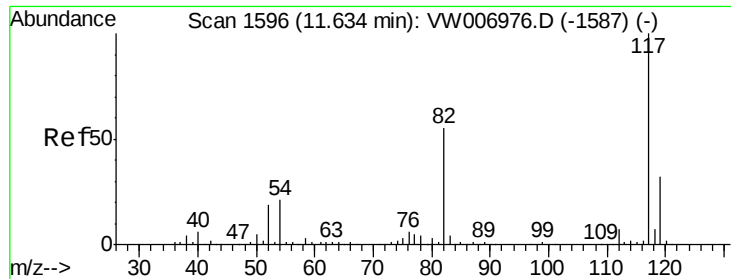
Tot Ion:107 Resp: 36818  
Ion Ratio Lower Upper  
107 100  
109 94.1 75.1 112.7



#62  
4-Bromofluorobenzene  
Concen: 51.412 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 95 Resp: 84570  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 143.6  
176 73.7 0.0 140.4

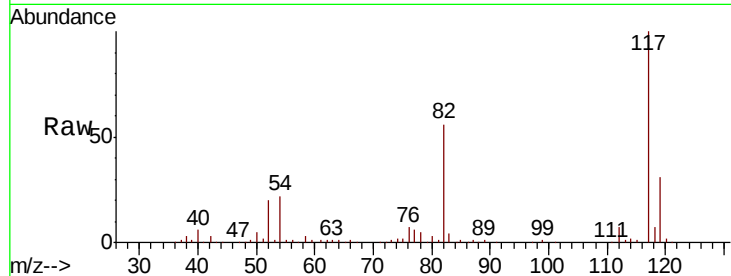




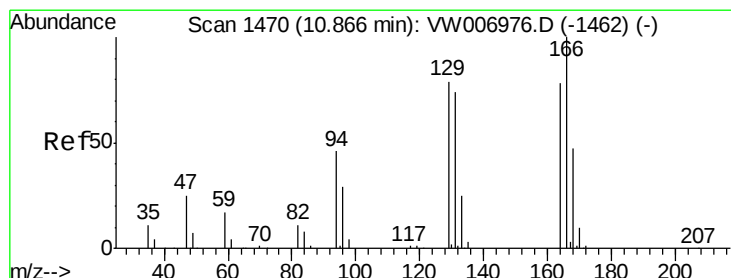
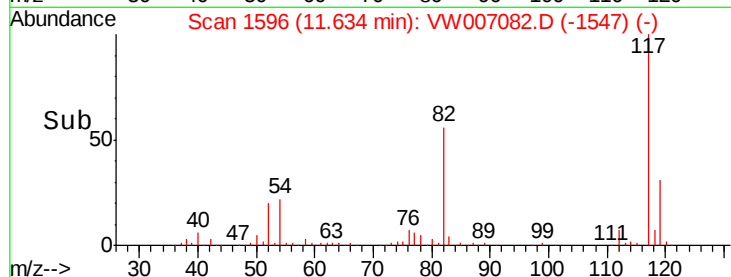
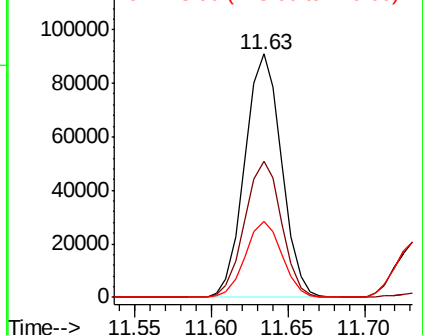
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:117 Resp: 151903  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.2 66.2  
119 31.2 25.9 38.9

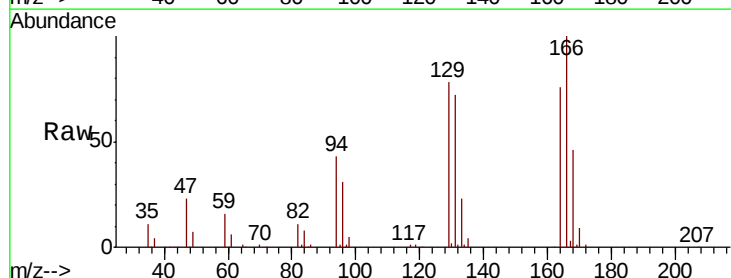


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

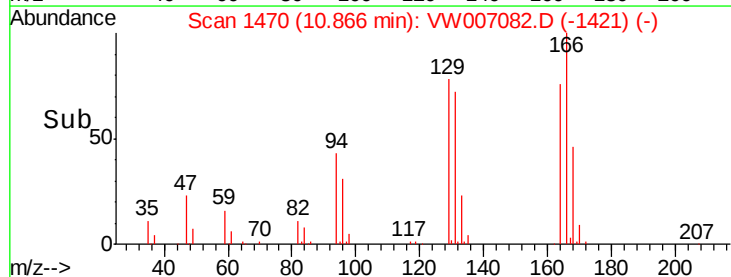
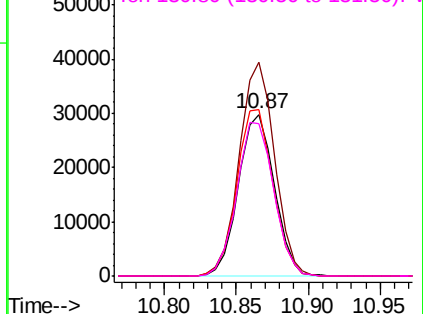


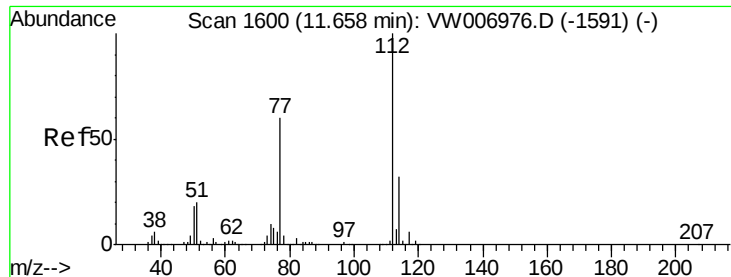
#64  
Tetrachloroethene  
Concen: 52.905 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:164 Resp: 51700  
Ion Ratio Lower Upper  
164 100  
166 131.9 102.1 153.1  
129 102.8 80.4 120.6  
131 94.3 75.2 112.8



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

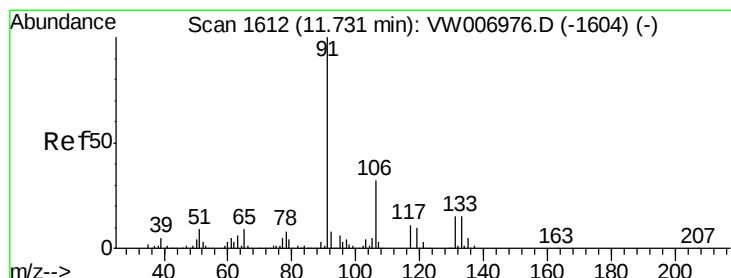
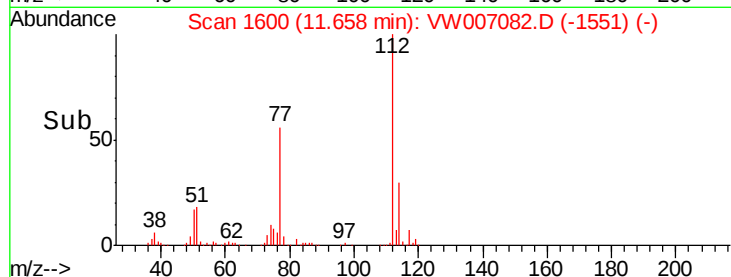
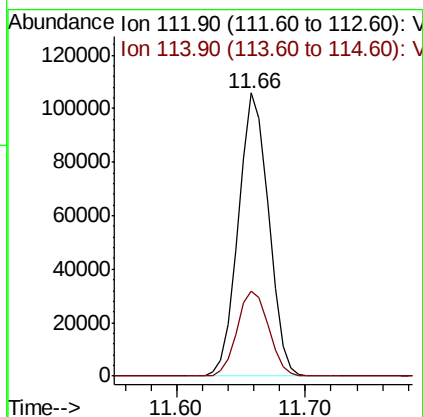
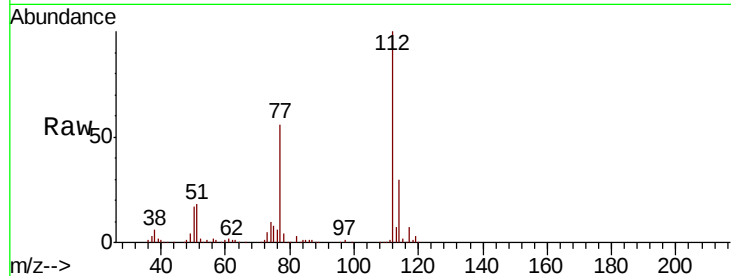




#65  
Chlorobenzene  
Concen: 54.359 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

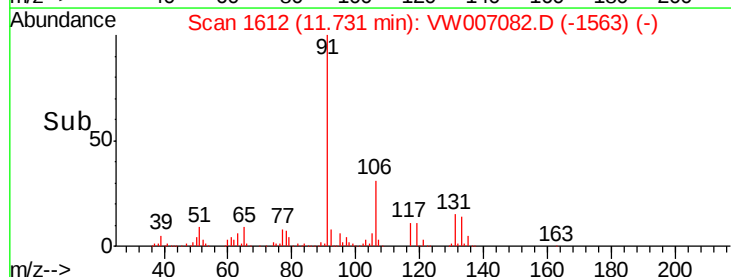
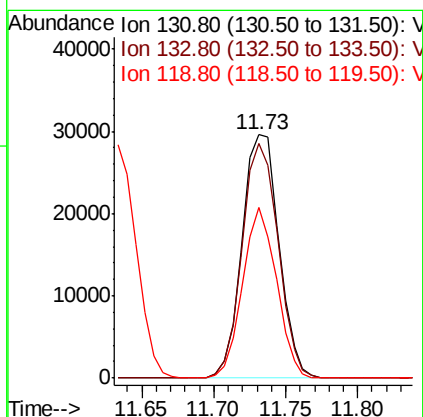
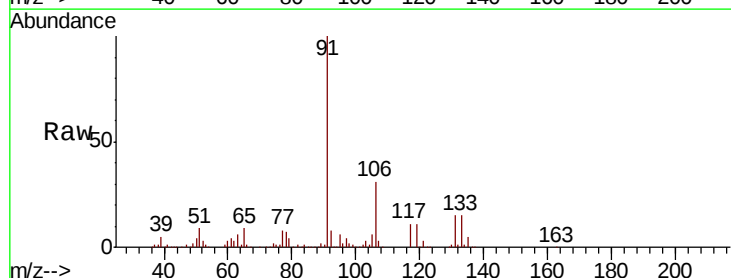
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

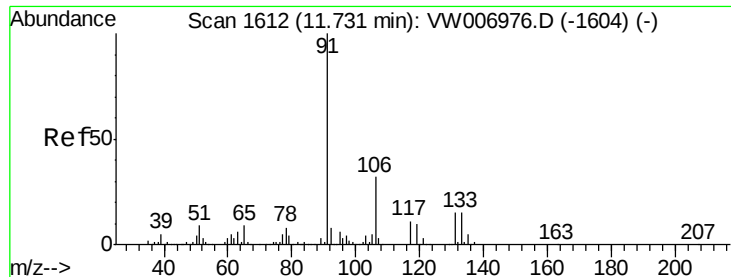
Tot Ion:112 Resp: 172342  
Ion Ratio Lower Upper  
112 100  
114 29.9 25.8 38.8



#66  
1,1,1,2-Tetrachloroethane  
Concen: 54.683 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:131 Resp: 52446  
Ion Ratio Lower Upper  
131 100  
133 94.3 47.7 143.1  
119 64.4 31.8 95.3





#67

Ethyl Benzene

Concen: 54.379 ug/l

RT: 11.74 min Scan# 1613

Delta R.T. 0.01 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

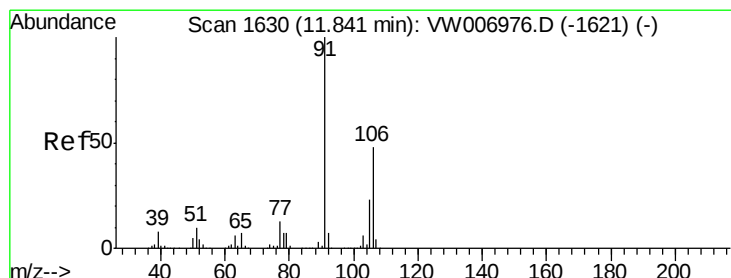
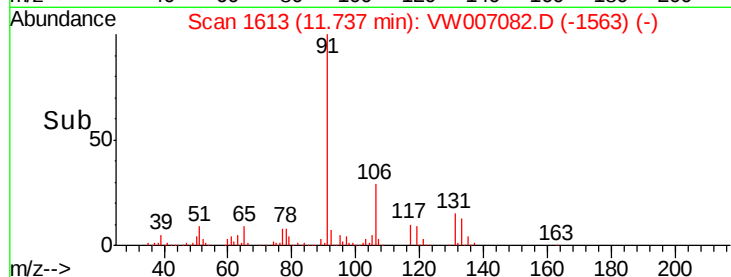
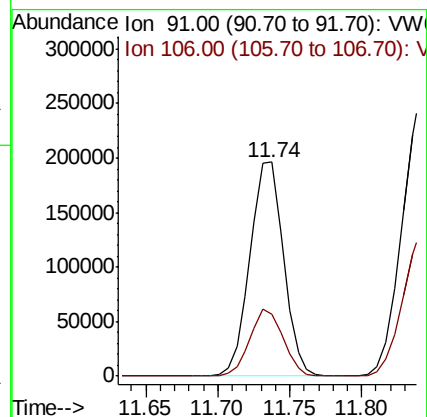
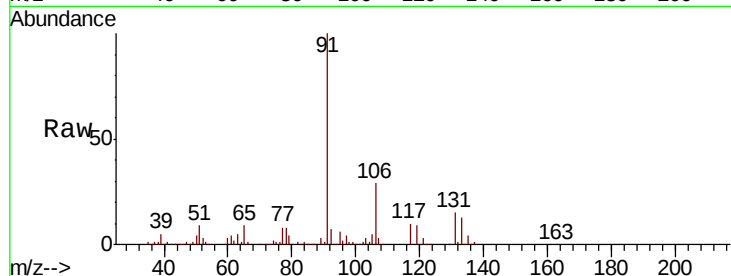
VSTDCCC050

Tot Ion: 91 Resp: 316716

Ion Ratio Lower Upper

91 100

106 28.9 25.4 38.2



#68

m/p-Xylenes

Concen: 107.264 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW007082.D

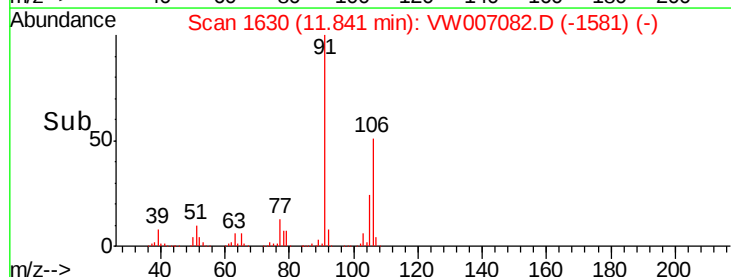
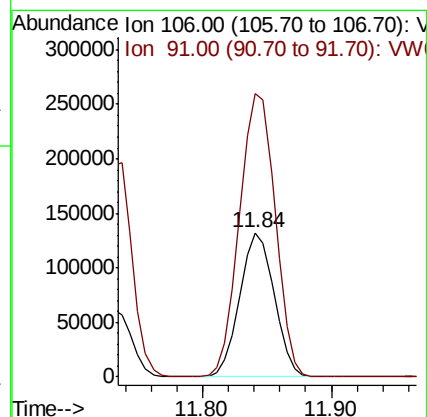
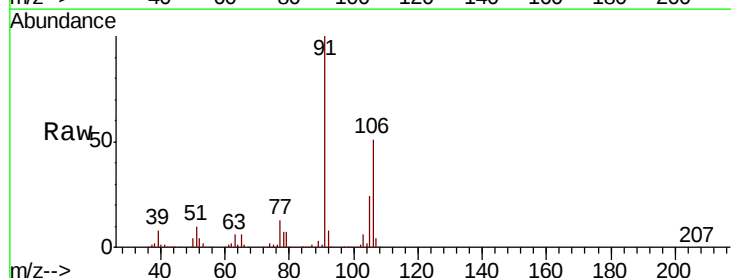
Acq: 27 Nov 2018 12:36

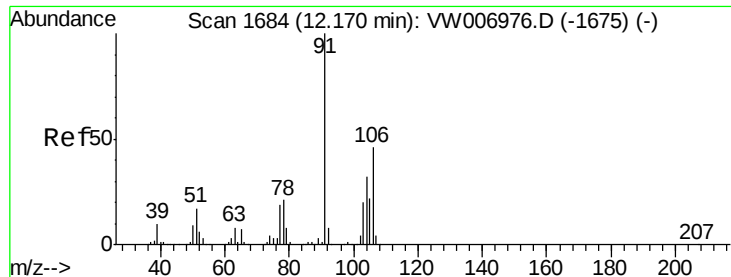
Tgt Ion: 106 Resp: 245103

Ion Ratio Lower Upper

106 100

91 204.3 164.8 247.2

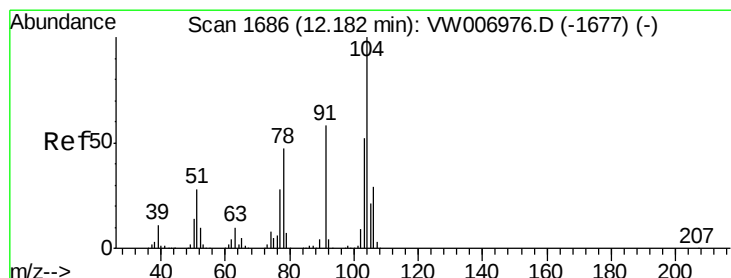
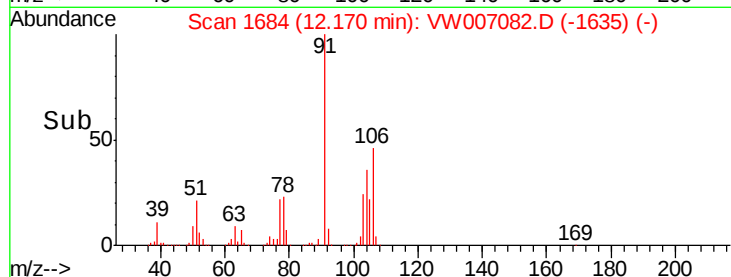
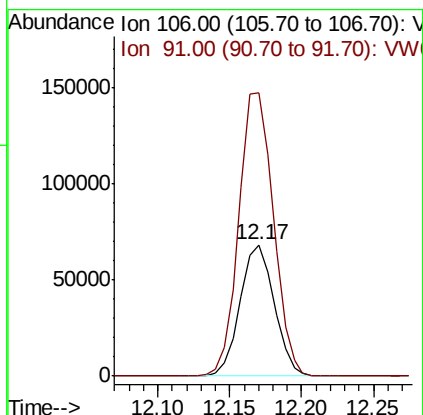
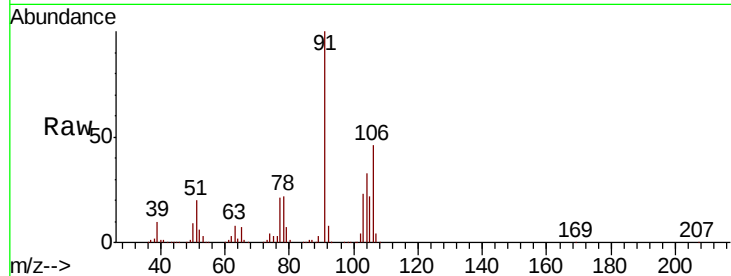




#69  
o-Xylene  
Concen: 52.175 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

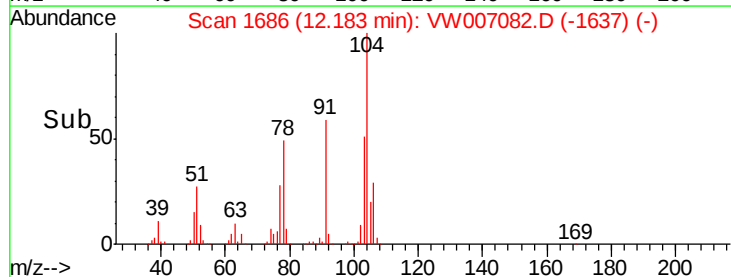
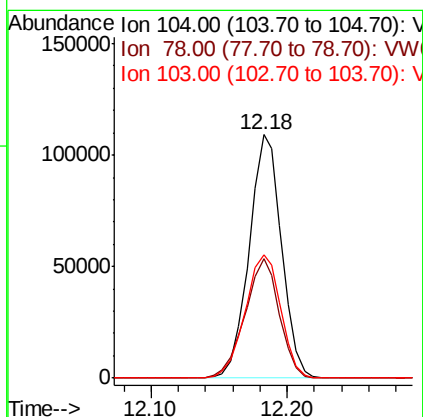
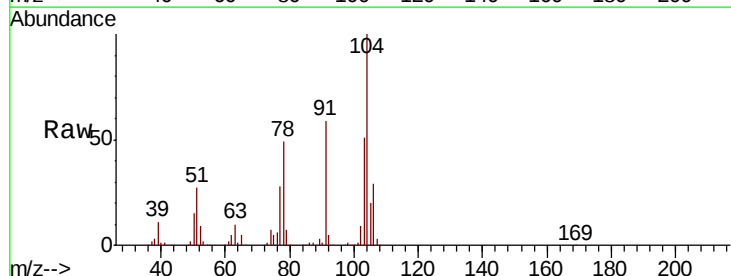
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

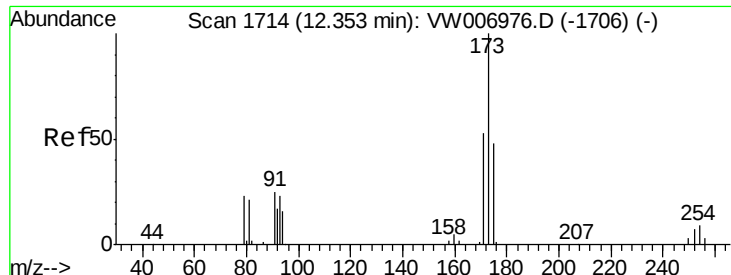
Tot Ion:106 Resp: 112418  
Ion Ratio Lower Upper  
106 100  
91 218.8 107.9 323.8



#70  
Styrene  
Concen: 53.001 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:104 Resp: 181752  
Ion Ratio Lower Upper  
104 100  
78 52.1 41.8 62.8  
103 55.8 44.4 66.6





#71

Bromoform

Concen: 53.786 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

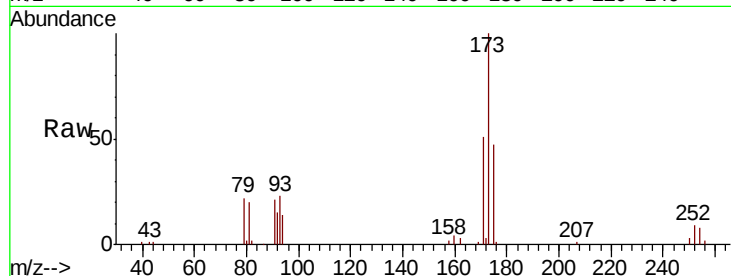
Tot Ion:173 Resp: 24301

Ion Ratio Lower Upper

173 100

175 48.5 24.0 72.0

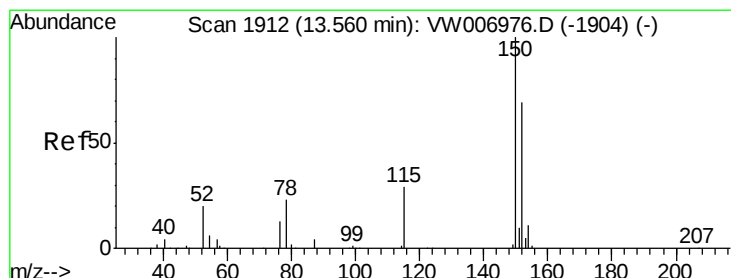
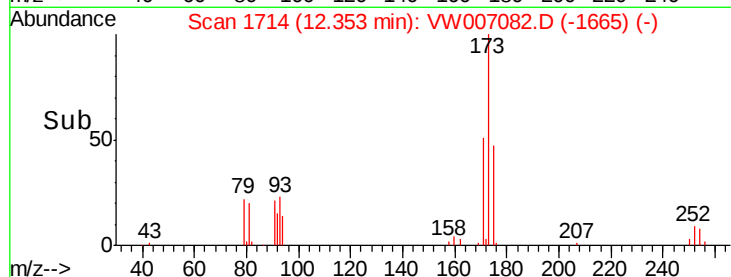
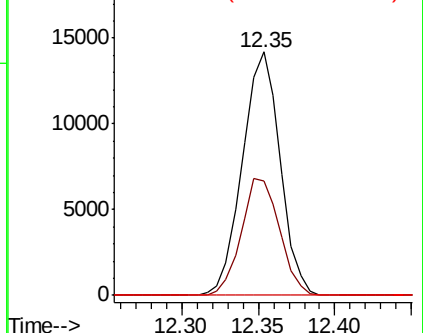
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

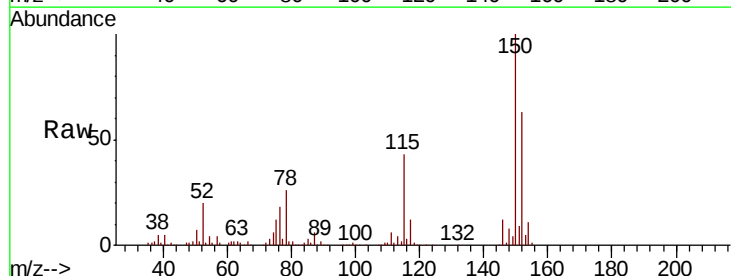
Tgt Ion:152 Resp: 75423

Ion Ratio Lower Upper

152 100

115 63.5 31.4 94.2

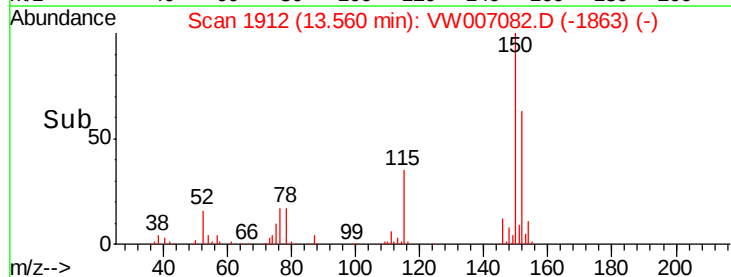
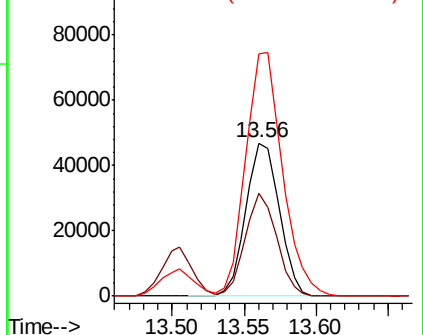
150 174.8 0.0 353.4

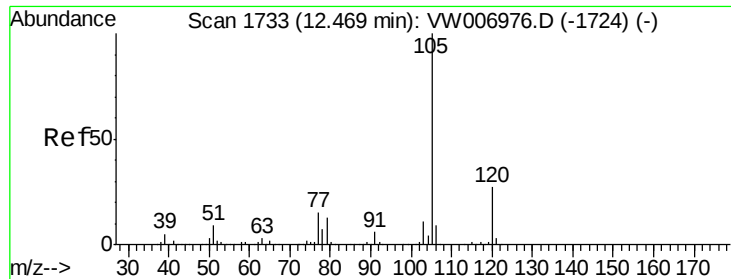


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.815 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

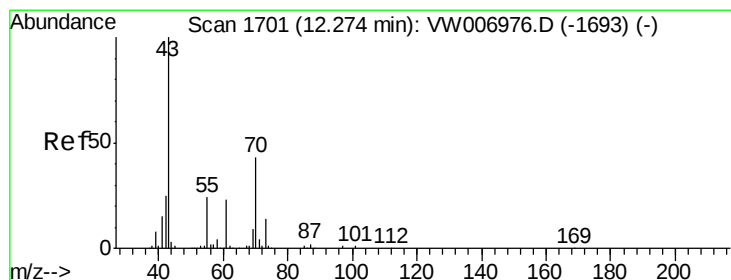
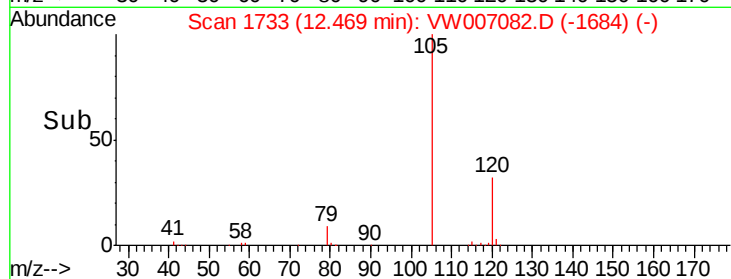
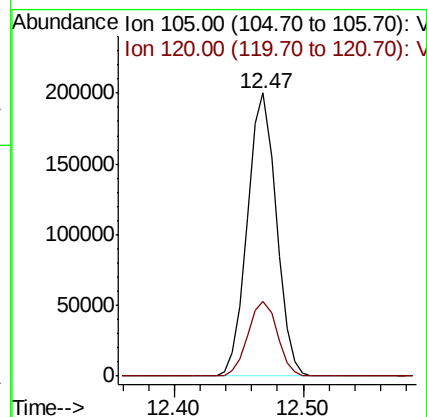
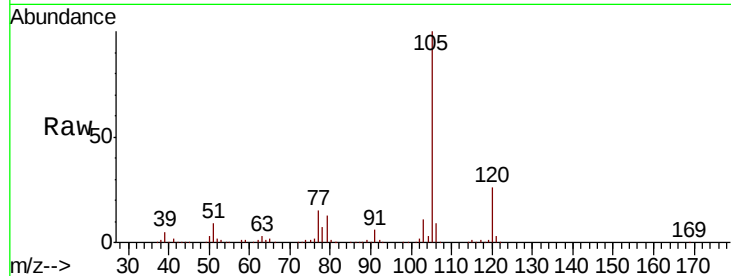
VSTDCCC050

Tot Ion:105 Resp: 309589

Ion Ratio Lower Upper

105 100

120 26.9 13.3 39.8



#74

N-ethyl acetate

Concen: 53.313 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Tgt Ion: 43 Resp: 52376

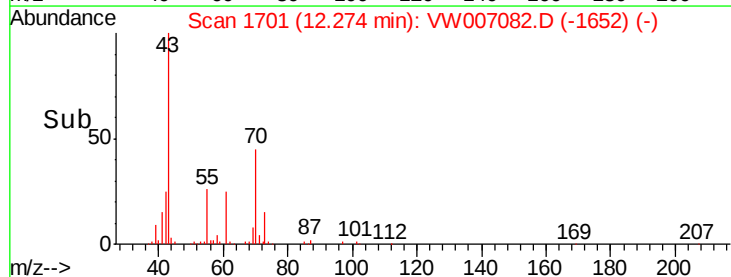
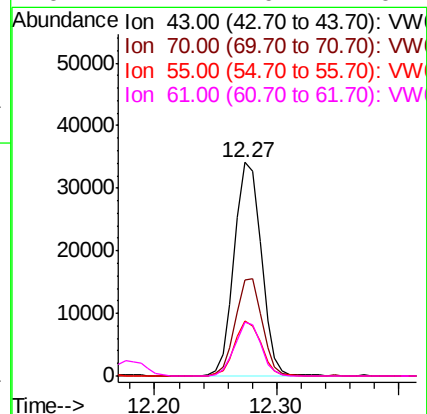
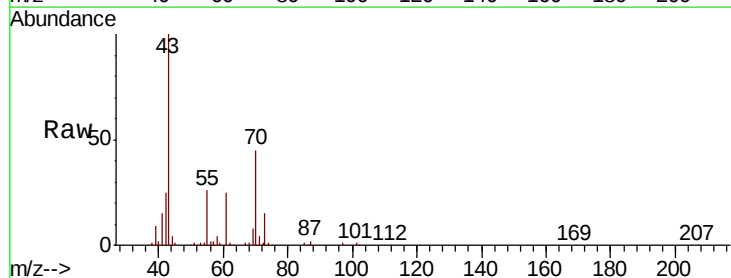
Ion Ratio Lower Upper

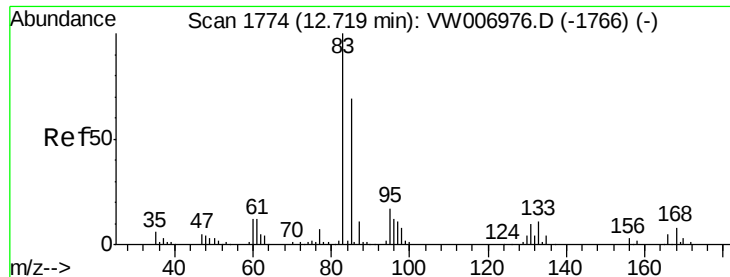
43 100

70 44.8 34.0 51.0

55 25.1 19.4 29.0

61 24.2 19.4 29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 49.842 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

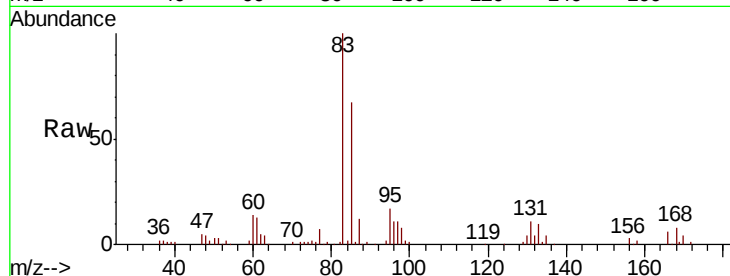
Tot Ion: 83 Resp: 38882

Ion Ratio Lower Upper

83 100

131 12.5 5.7 17.1

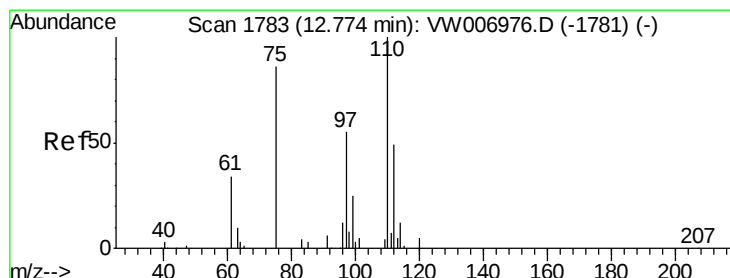
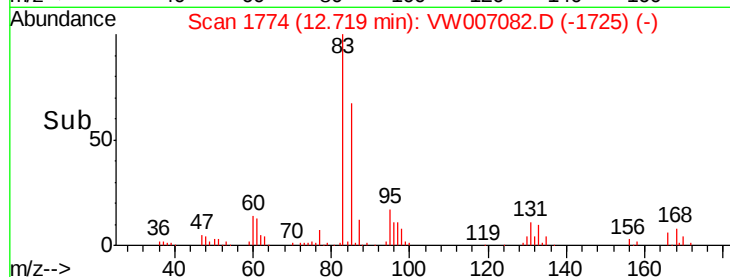
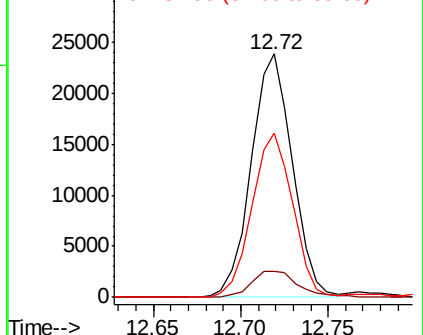
85 67.0 33.1 99.2



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: 94.302 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW007082.D

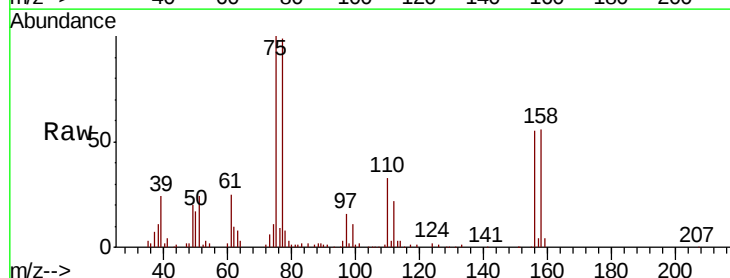
Acq: 27 Nov 2018 12:36

Tgt Ion: 75 Resp: 55890

Ion Ratio Lower Upper

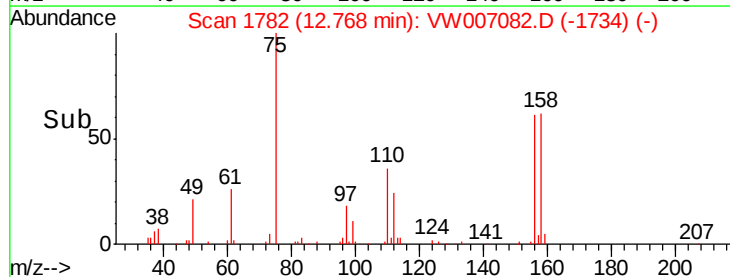
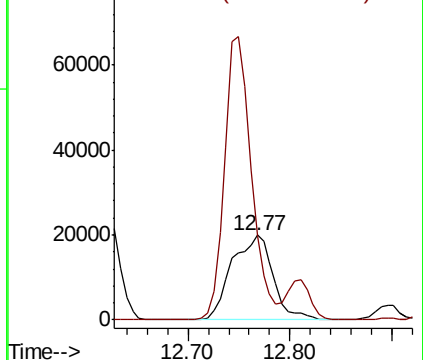
75 100

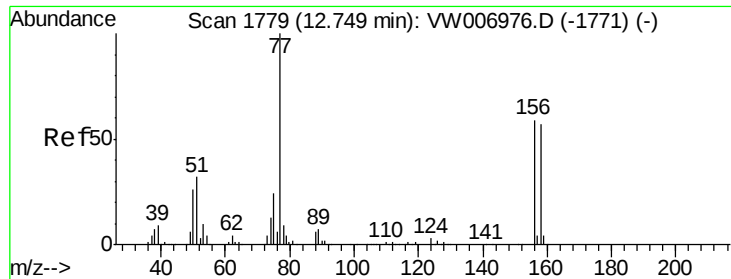
77 217.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 53.108 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

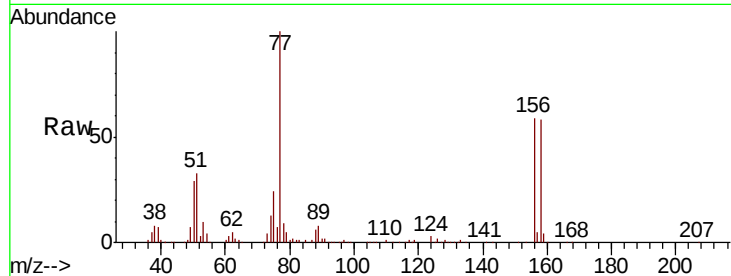
Tot Ion:156 Resp: 66863

Ion Ratio Lower Upper

156 100

77 181.7 94.6 283.8

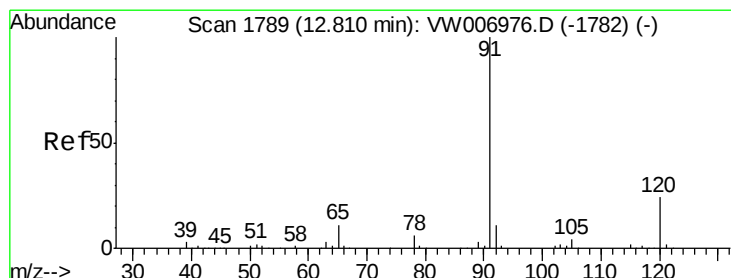
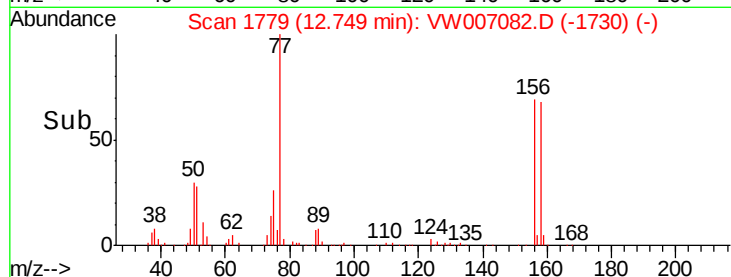
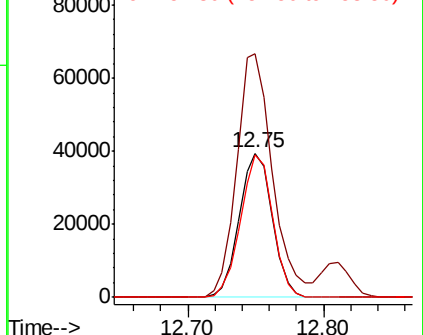
158 96.2 48.9 146.7



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: 52.109 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW007082.D

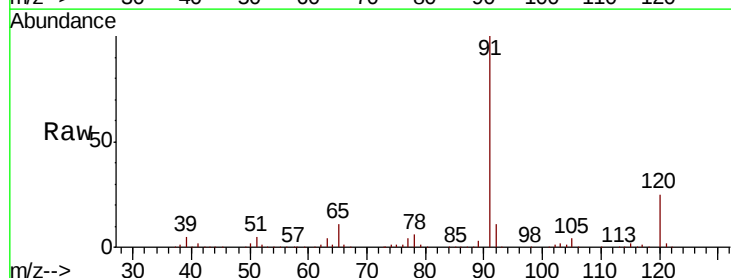
Acq: 27 Nov 2018 12:36

Tgt Ion: 91 Resp: 369994

Ion Ratio Lower Upper

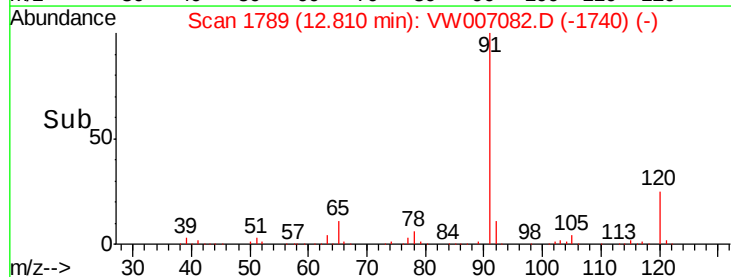
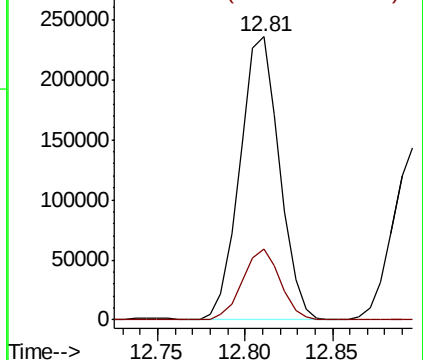
91 100

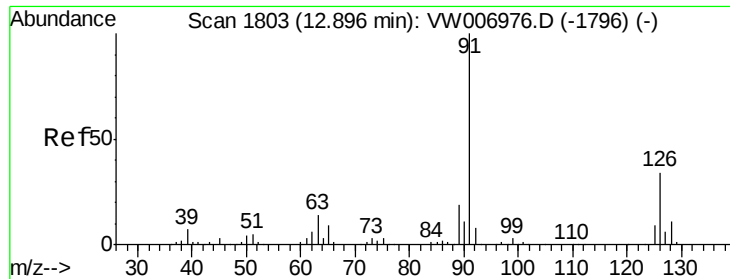
120 23.8 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.165 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

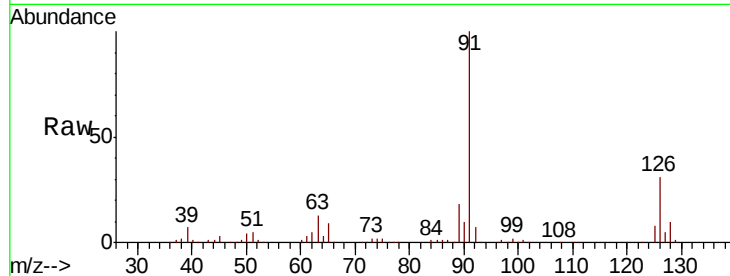
VSTDCCC050

Tot Ion: 91 Resp: 217658

Ion Ratio Lower Upper

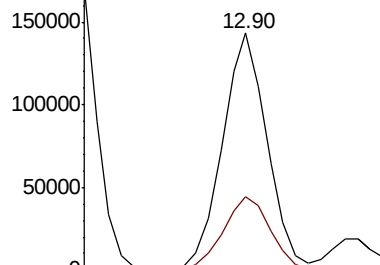
91 100

126 32.7 16.7 50.0

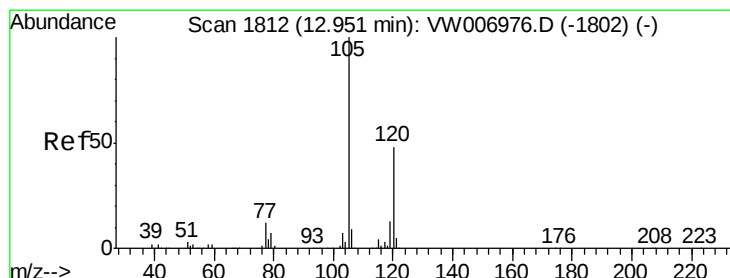
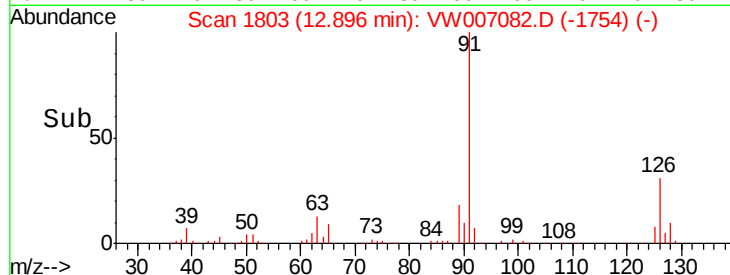


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 52.919 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.01 min

Lab File: VW007082.D

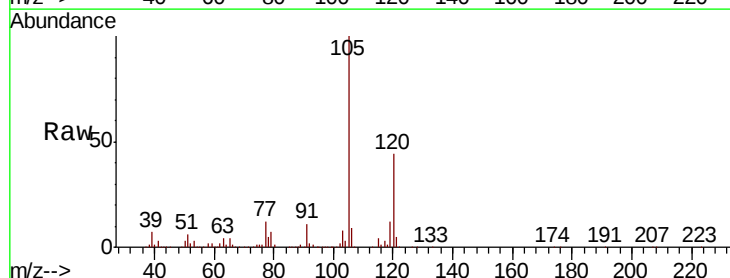
Acq: 27 Nov 2018 12:36

Tgt Ion:105 Resp: 268244

Ion Ratio Lower Upper

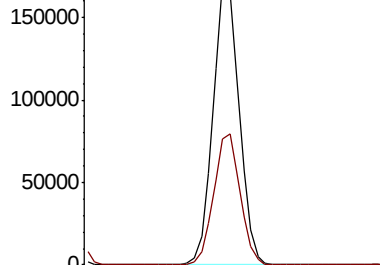
105 100

120 46.8 23.8 71.2

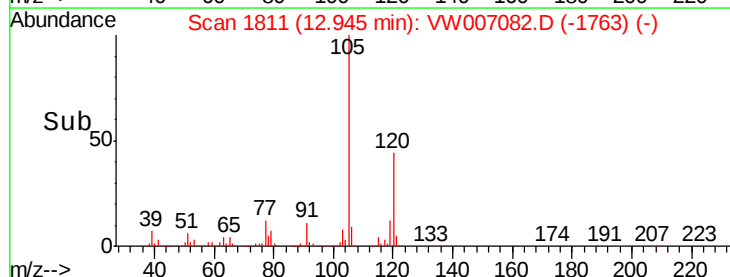


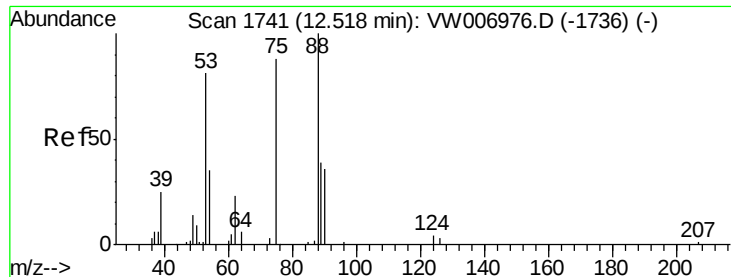
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->

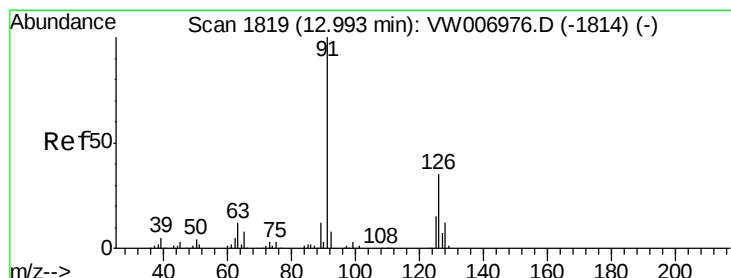
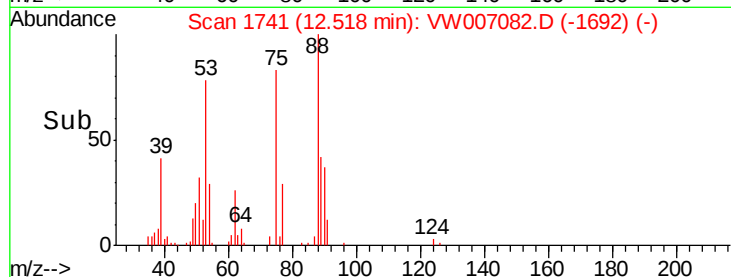
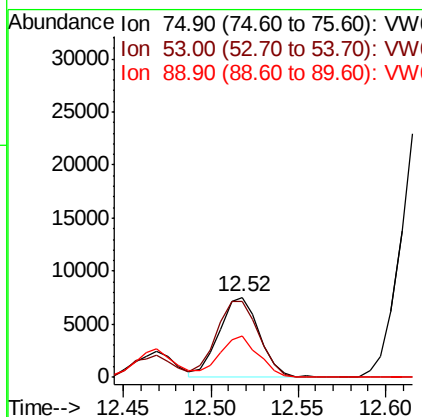
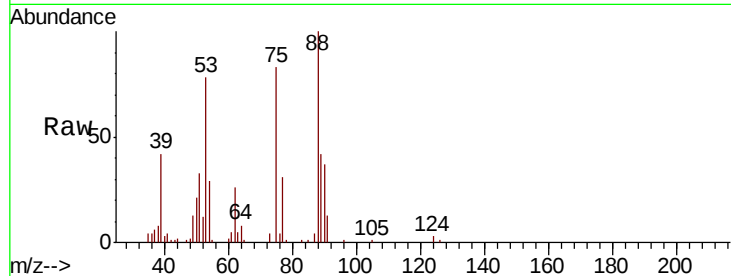




#81  
trans-1,4-Dichloro-2-butene  
Concen: 51.481 ug/l  
RT: 12.52 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

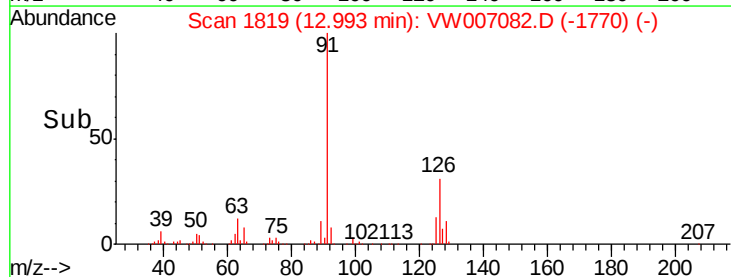
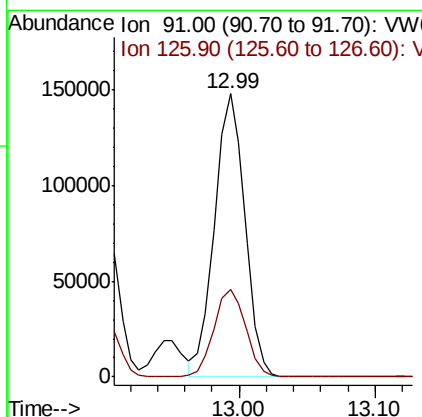
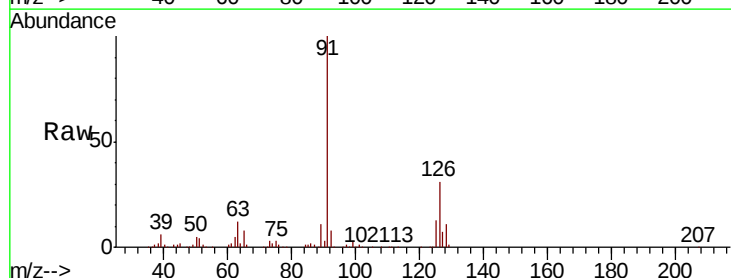
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

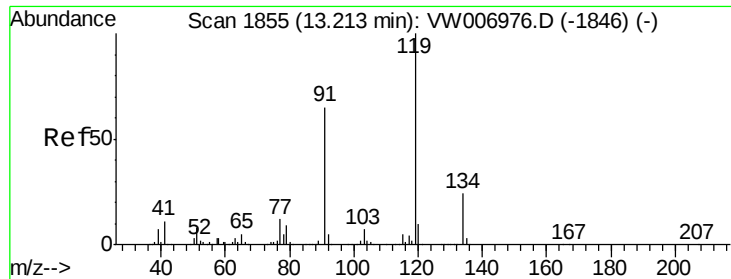
Tot Ion: 75 Resp: 12153  
Ion Ratio Lower Upper  
75 100  
53 100.0 77.6 116.4  
89 47.7 39.3 58.9



#82  
4-Chlorotoluene  
Concen: 53.295 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion: 91 Resp: 228970  
Ion Ratio Lower Upper  
91 100  
126 32.3 16.6 49.7

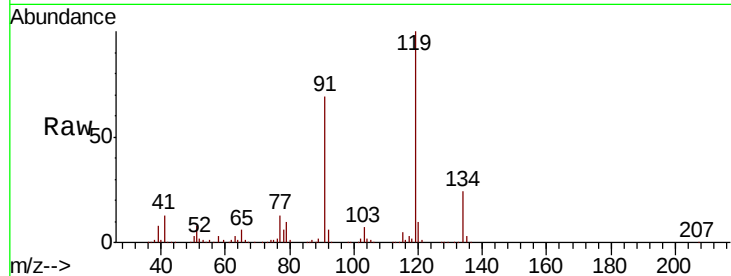




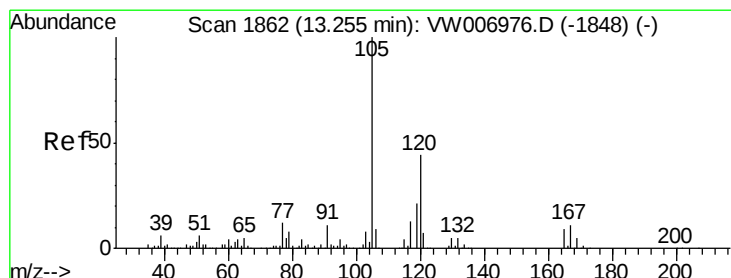
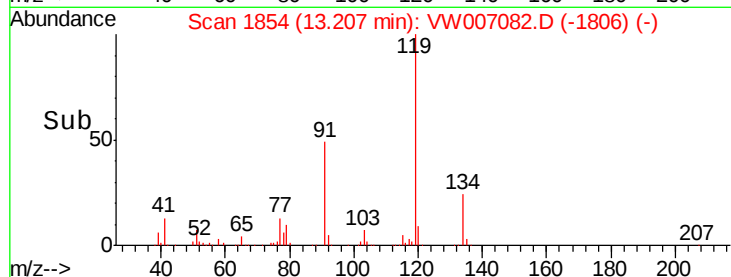
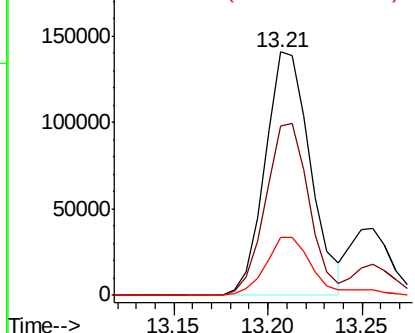
#83  
tert-Butylbenzene  
Concen: 53.576 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:119 Resp: 235124  
Ion Ratio Lower Upper  
119 100  
91 67.8 33.5 100.5  
134 25.0 12.6 37.8

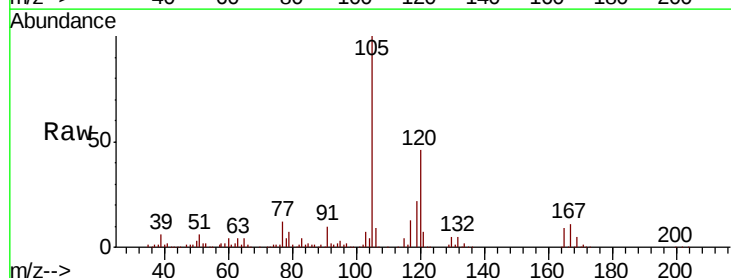


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

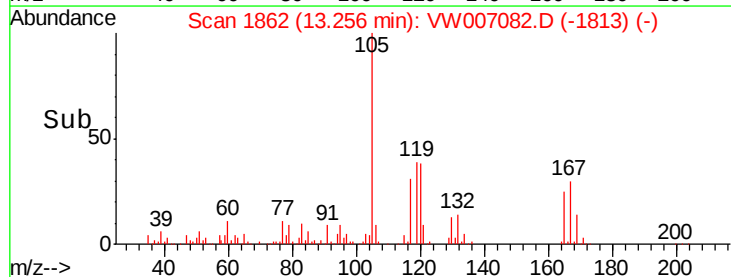
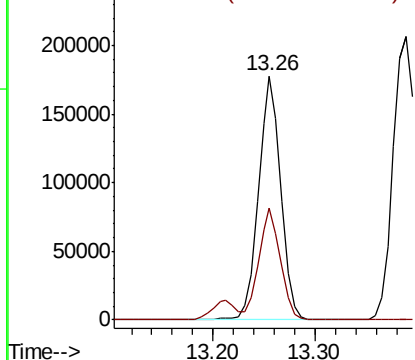


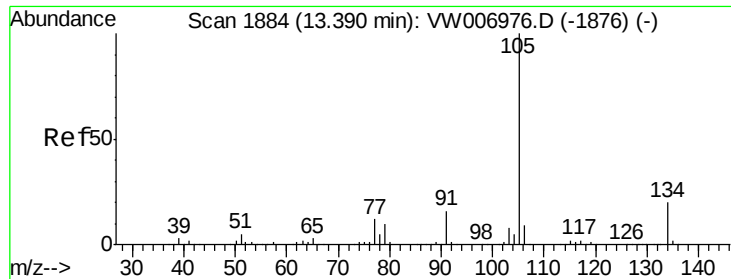
#84  
1,2,4-Trimethylbenzene  
Concen: 53.431 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:105 Resp: 269840  
Ion Ratio Lower Upper  
105 100  
120 44.1 21.8 65.3



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





#85

sec-Butylbenzene

Concen: 52.825 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

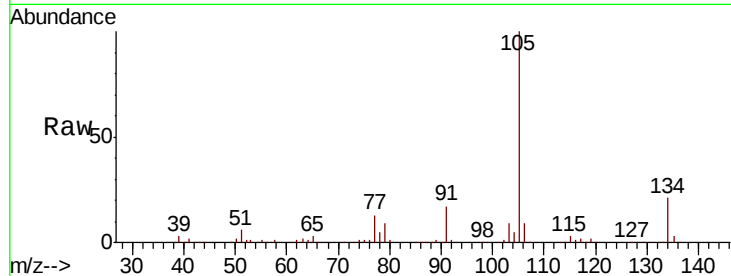
VSTDCCC050

Tot Ion:105 Resp: 327510

Ion Ratio Lower Upper

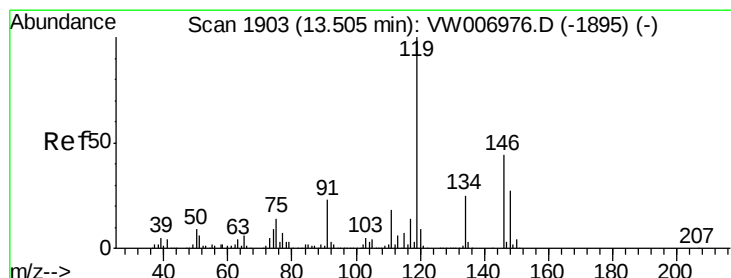
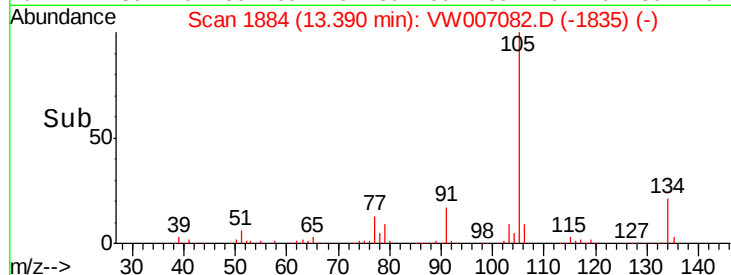
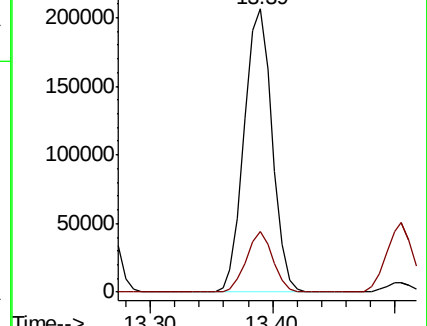
105 100

134 20.3 9.8 29.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 52.765 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

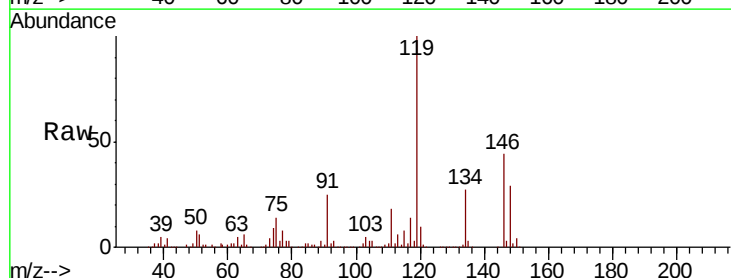
Tgt Ion:119 Resp: 288605

Ion Ratio Lower Upper

119 100

134 26.3 12.8 38.3

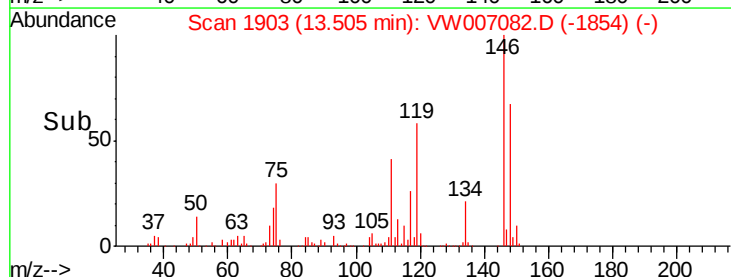
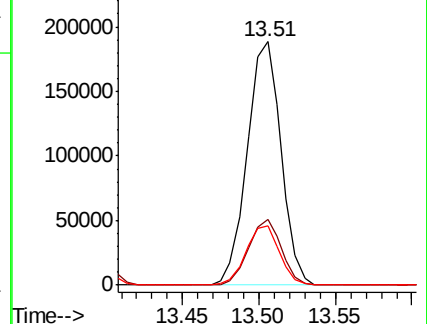
91 24.4 12.2 36.6

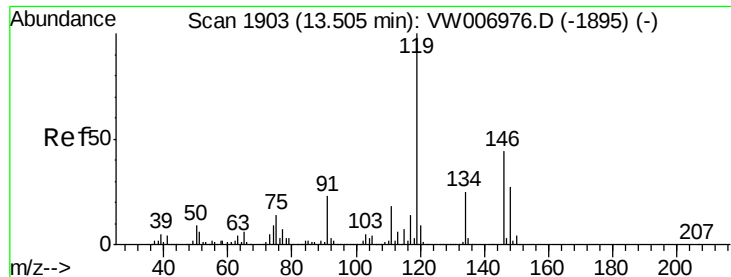


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

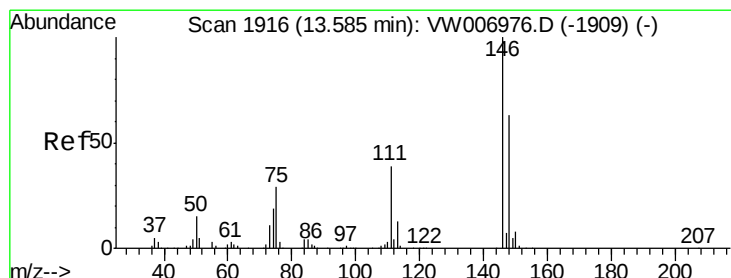
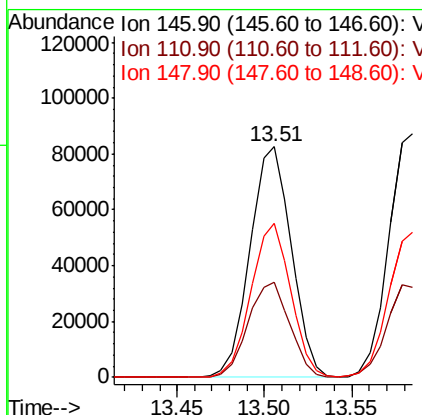
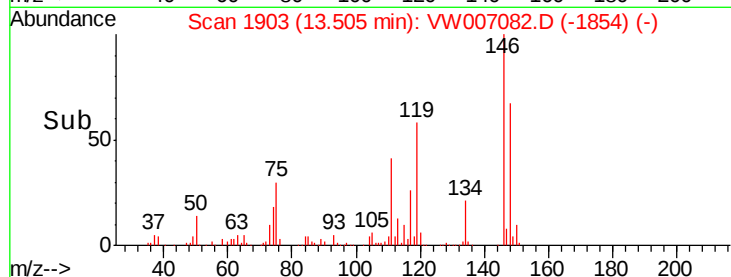
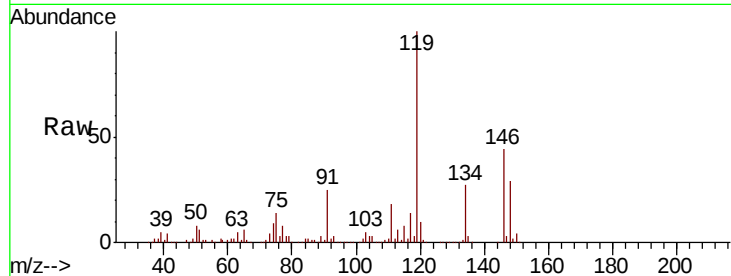




#87  
 1,3-Dichlorobenzene  
 Concen: 52.707 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

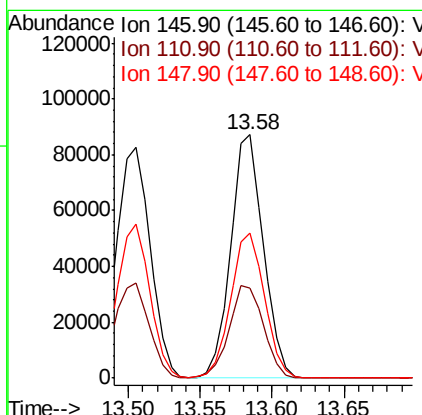
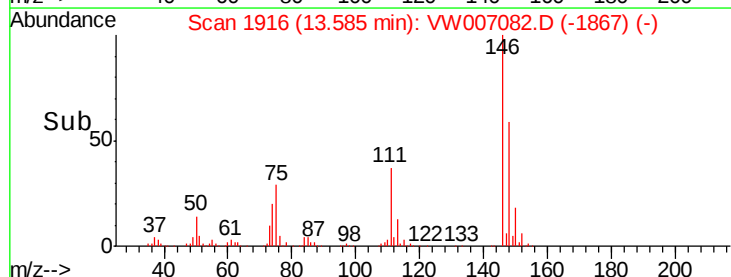
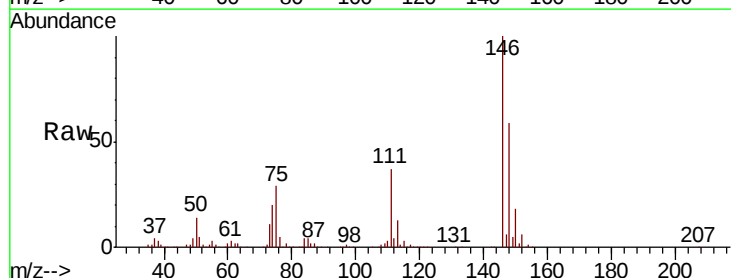
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

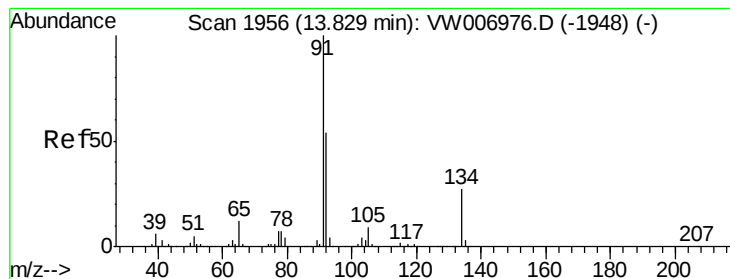
Tot Ion:146 Resp: 135473  
 Ion Ratio Lower Upper  
 146 100  
 111 41.7 21.1 63.3  
 148 64.4 31.6 94.8



#88  
 1,4-Dichlorobenzene  
 Concen: 54.004 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. 0.00 min  
 Lab File: VW007082.D  
 Acq: 27 Nov 2018 12:36

Tgt Ion:146 Resp: 138394  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 20.6 61.8  
 148 61.9 32.3 96.8





#89

n-Butylbenzene

Concen: 54.498 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

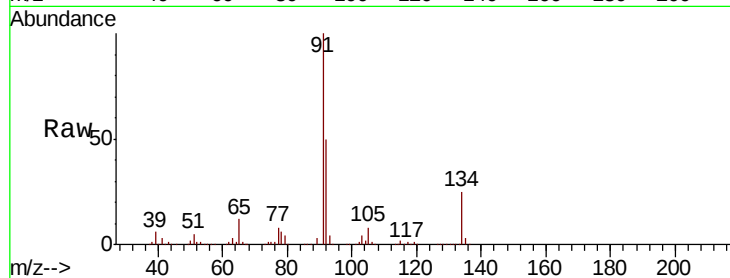
Tot Ion: 91 Resp: 280515

Ion Ratio Lower Upper

91 100

92 52.6 26.8 80.4

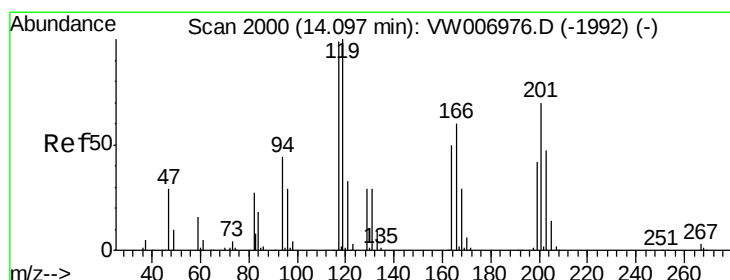
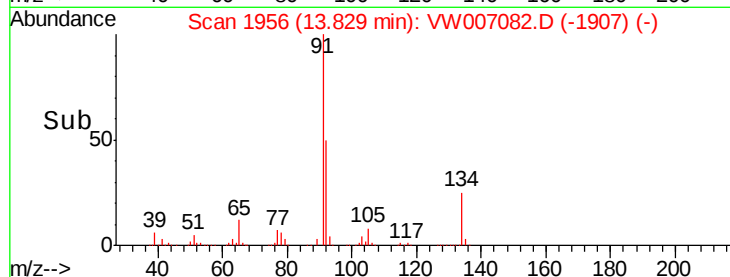
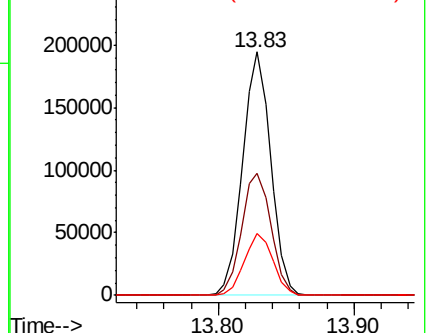
134 25.9 13.3 39.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 55.605 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW007082.D

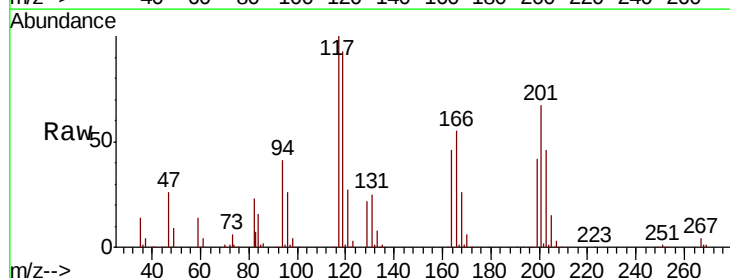
Acq: 27 Nov 2018 12:36

Tgt Ion: 117 Resp: 44403

Ion Ratio Lower Upper

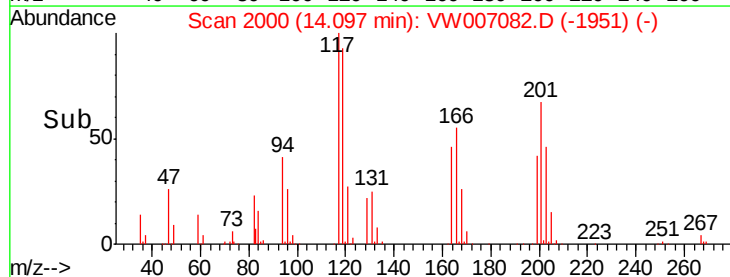
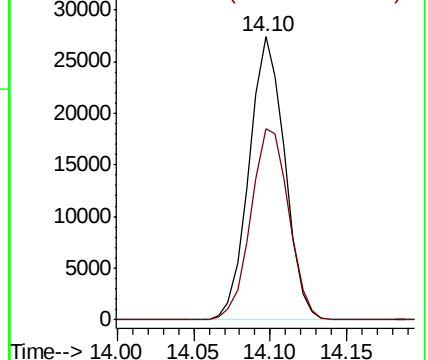
117 100

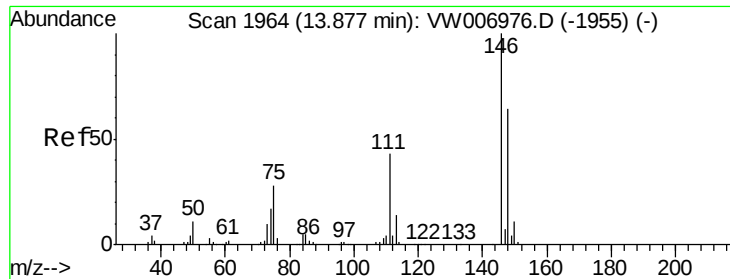
201 72.0 35.9 107.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 52.412 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

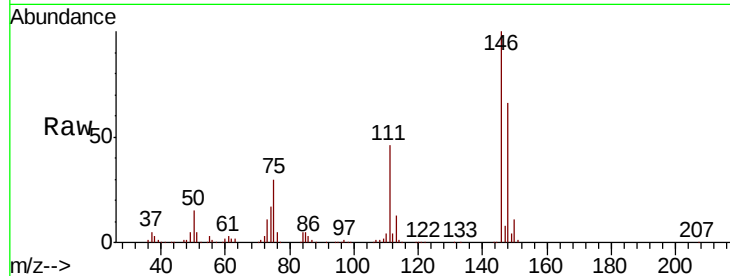
Tot Ion:146 Resp: 118041

Ion Ratio Lower Upper

146 100

111 45.2 21.9 65.7

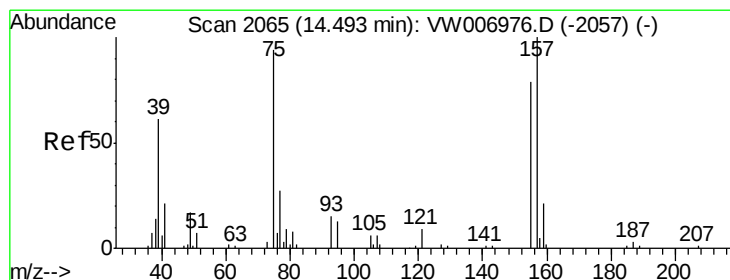
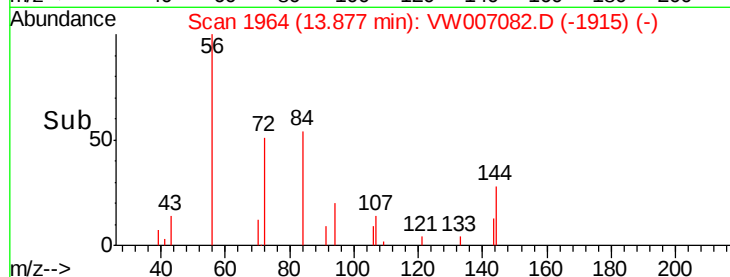
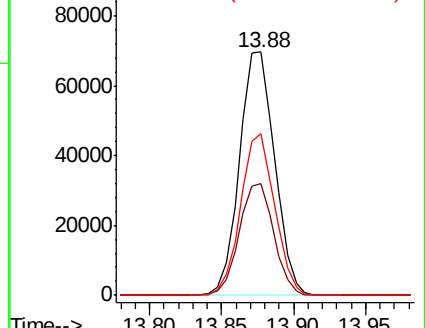
148 64.0 32.2 96.6



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: 54.670 ug/l

RT: 14.49 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VW007082.D

Acq: 27 Nov 2018 12:36

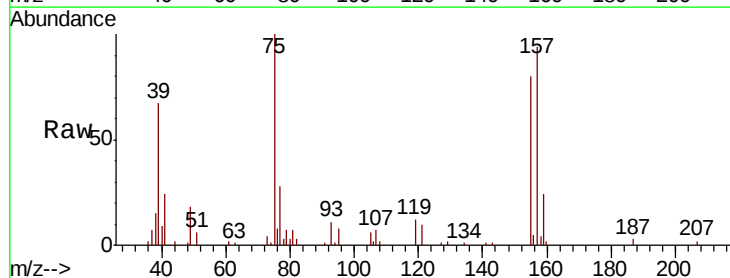
Tgt Ion: 75 Resp: 7203

Ion Ratio Lower Upper

75 100

155 79.0 42.6 127.8

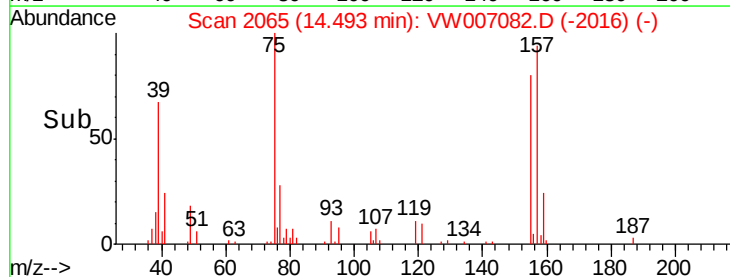
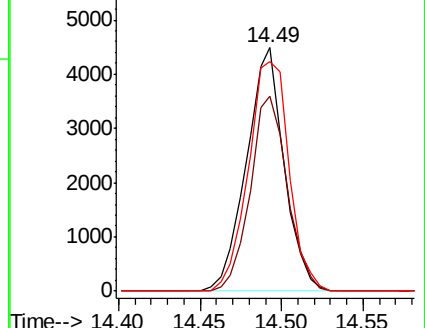
157 102.0 55.0 165.0

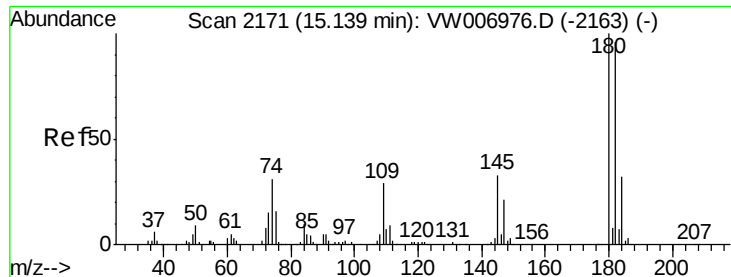


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

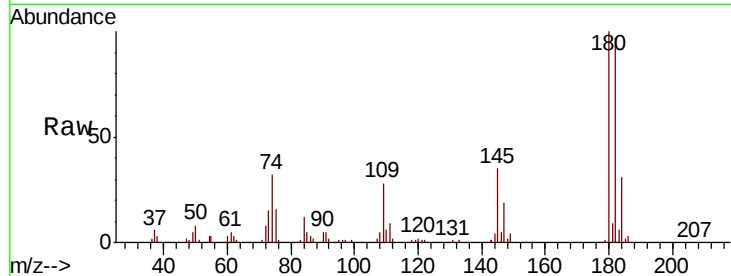




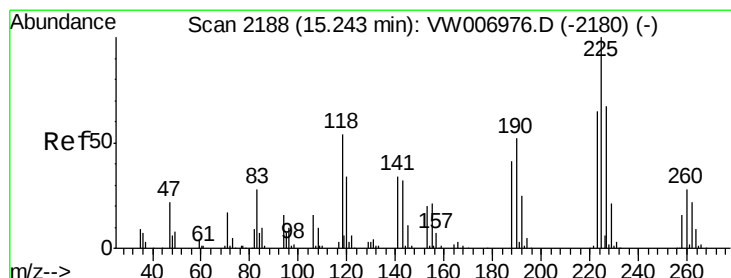
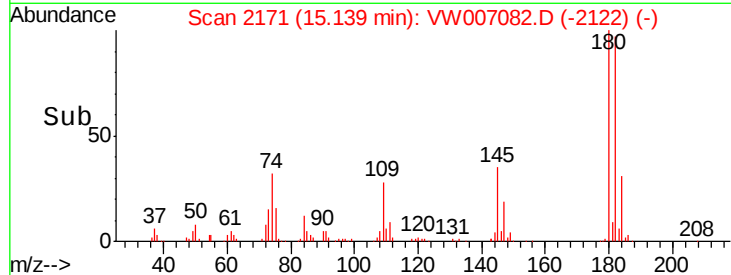
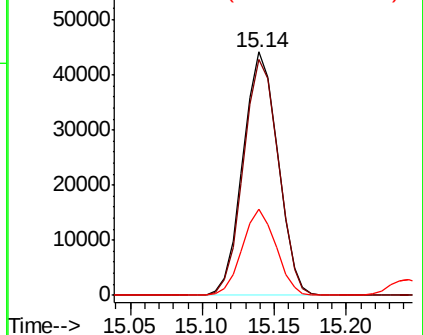
#93  
1,2,4-Trichlorobenzene  
Concen: 50.012 ug/l  
RT: 15.14 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:180 Resp: 74273  
Ion Ratio Lower Upper  
180 100  
182 96.9 47.1 141.3  
145 34.1 16.5 49.5

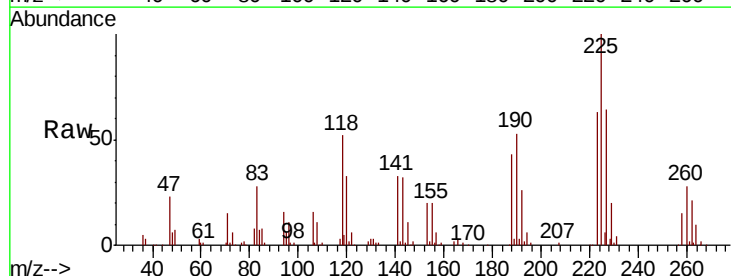


Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.80 (144.50 to 145.50): V

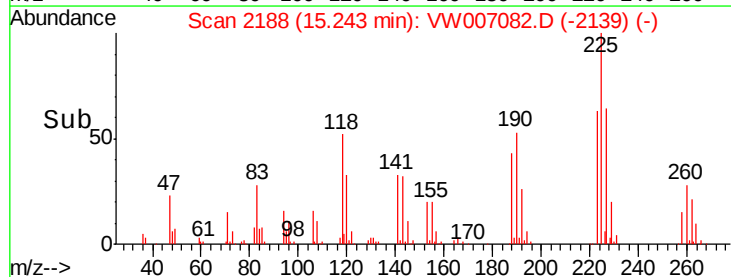
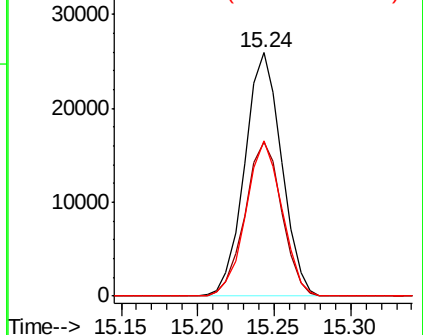


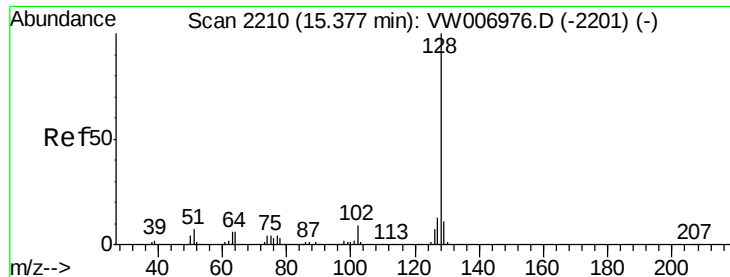
#94  
Hexachlorobutadiene  
Concen: 53.927 ug/l  
RT: 15.24 min Scan# 2188  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:225 Resp: 43538  
Ion Ratio Lower Upper  
225 100  
223 63.3 32.4 97.0  
227 62.5 31.9 95.5



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V

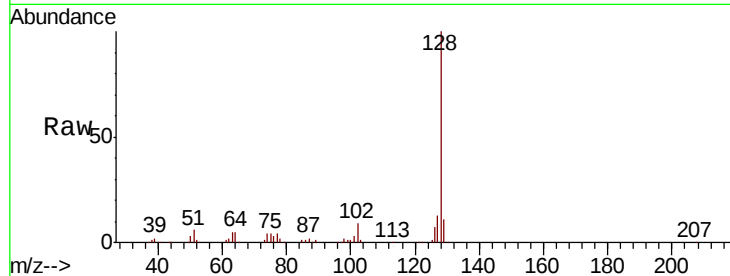




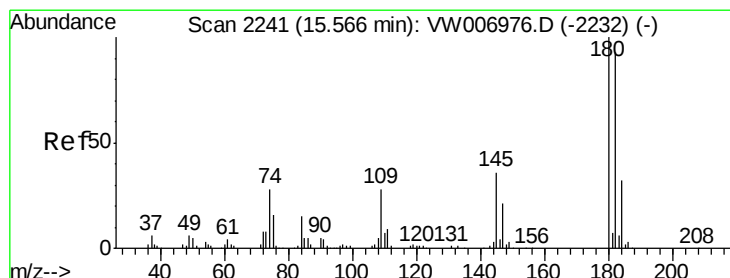
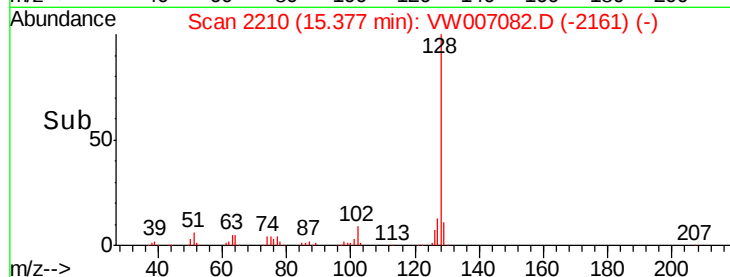
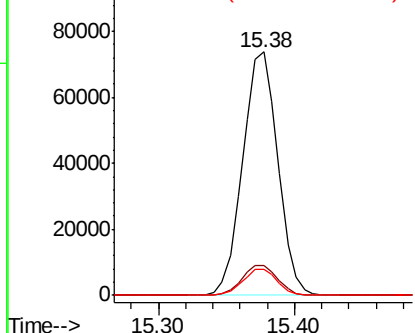
#95  
Naphthalene  
Concen: 49.494 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:128 Resp: 133427  
Ion Ratio Lower Upper  
128 100  
127 12.6 10.5 15.7  
129 10.8 8.7 13.1

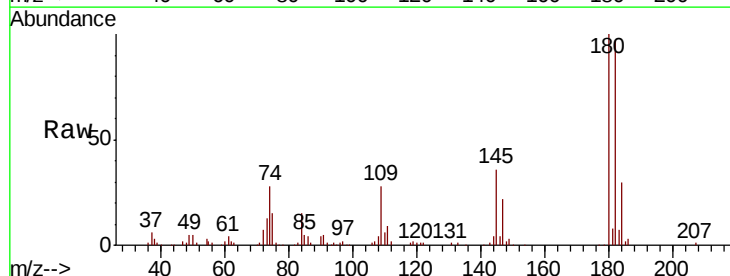


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 50.735 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. 0.00 min  
Lab File: VW007082.D  
Acq: 27 Nov 2018 12:36

Tgt Ion:180 Resp: 62510  
Ion Ratio Lower Upper  
180 100  
182 95.1 47.0 141.2  
145 35.5 18.0 54.0



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

