

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082019\  
 Data File : VW012036.D  
 Acq On : 20 Aug 2019 18:19  
 Operator : SY/VA  
 Sample : VW0820SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

Quant Time: Aug 21 01:34:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 246794   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 395016   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 347215   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 165963   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 147896   | 52.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.38% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 121548   | 54.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.70% |      |
| 50) Toluene-d8            | 10.32  | 98  | 494855   | 54.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.08% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 178373   | 55.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.28% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 31575  | 22.957  | ug/l | 92     |
| 3) Chloromethane              | 2.21 | 50  | 49605  | 20.799  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 60505  | 21.072  | ug/l | 100    |
| 5) Bromomethane               | 2.76 | 94  | 30872  | 19.424  | ug/l | 100    |
| 6) Chloroethane               | 2.91 | 64  | 34207  | 20.856  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 26458  | 20.618  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 31519  | 21.663  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 53842  | 22.118  | ug/l | 98     |
| 10) Methyl Iodide             | 4.27 | 142 | 71658  | 20.830  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 21858  | 93.340  | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 54316  | 21.133  | ug/l | 100    |
| 13) Acrolein                  | 3.89 | 56  | 12464  | 61.296  | ug/l | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 112224 | 20.529  | ug/l | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 78805  | 108.501 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 75418  | 83.663  | ug/l | 99     |
| 17) Carbon Disulfide          | 4.38 | 76  | 151998 | 18.895  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 43433  | 21.447  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 91687  | 22.480  | ug/l | 99     |
| 20) Methylene Chloride        | 4.91 | 84  | 65302  | 21.005  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 58095  | 20.965  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 221021 | 21.444  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.25 | 43  | 686028 | 105.929 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 116230 | 21.056  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 113015 | 95.810  | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 64059  | 18.870  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 64103  | 21.019  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 53810  | 21.962  | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 74031  | 109.797 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 107726 | 21.154  | ug/l | 98     |
| 31) Cyclohexane               | 7.95 | 56  | 108900 | 20.552  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 84324  | 21.743  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 88775  | 21.613  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 51946  | 21.982  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 75310  | 21.418  | ug/l | 99     |

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 Sample : VW0820SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

Quant Time: Aug 21 01:34:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 99923    | 22.093  | ug/l   | 96       |
| 40) Benzene                    | 8.32  | 78   | 247350   | 21.499  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 30586    | 21.652  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 77258    | 21.448  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 94679    | 21.785  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 59966    | 21.686  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 65618    | 21.316  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 30407    | 21.641  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 77711    | 21.085  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 44639    | 21.383  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 9923     | 487.758 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 247878   | 109.654 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 149703   | 21.546  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 79625    | 20.682  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 94554    | 20.655  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 43553    | 21.847  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 63302    | 21.700  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 81837    | 21.698  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 169084   | 127.657 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 170469   | 106.804 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 46866    | 21.179  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 40698    | 21.573  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 49806    | 22.031  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 149713   | 21.447  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 52491    | 21.588  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 286914   | 21.581  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 211427   | 43.729  | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 99288    | 22.099  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 168524   | 21.694  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 26418    | 21.309  | ug/l   | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 273789   | 22.113  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 87845    | 22.662  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 53215    | 22.850  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 68859    | 39.212  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 59386    | 21.700  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 335419   | 22.260  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 188628   | 21.730  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 230338   | 22.194  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 16139    | 21.181  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 198835   | 21.831  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 197092   | 22.709  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 232953   | 22.282  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 276677   | 22.342  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 248517   | 22.118  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 117334   | 21.866  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 115761   | 21.687  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 245462   | 21.891  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 42699    | 21.491  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 104606   | 22.041  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8596     | 21.645  | ug/l   | 98       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW082019\  
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Operator : SY/VA  
Sample : VW0820SBS02  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

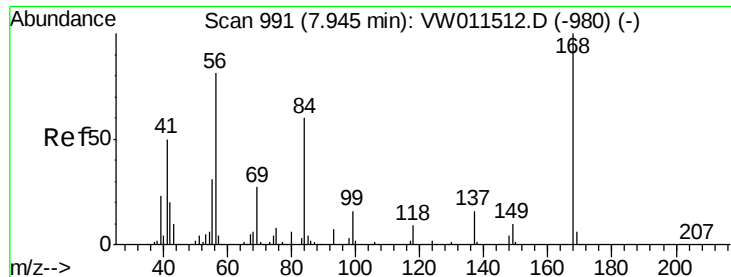
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Quant Time: Aug 21 01:34:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 72782    | 21.760 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 46166    | 22.133 | ug/l  | 97       |
| 95) Naphthalene            | 15.36 | 128  | 133595   | 21.614 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 64906    | 22.138 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

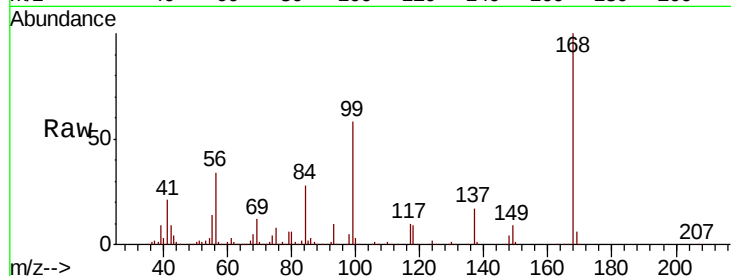
VW0820SBS02

Tgt Ion:168 Resp: 246794

Ion Ratio Lower Upper

168 100

99 57.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

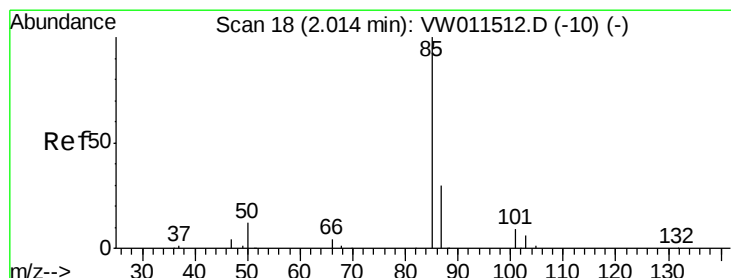
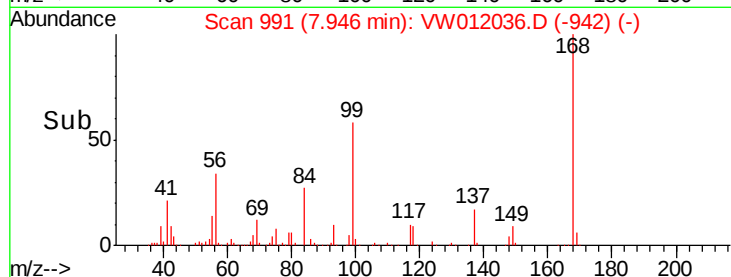
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 22.957 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW012036.D

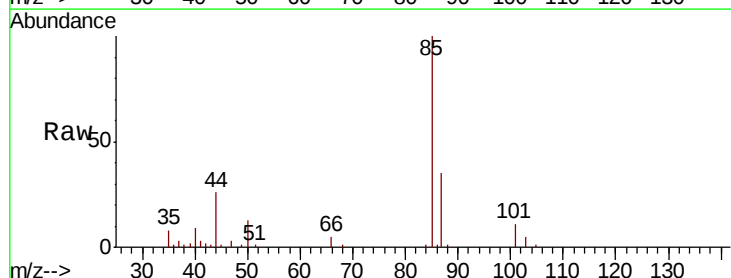
Acq: 20 Aug 2019 18:19

Tgt Ion: 85 Resp: 31575

Ion Ratio Lower Upper

85 100

87 34.6 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

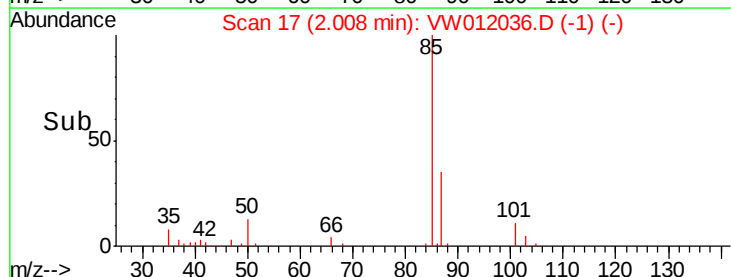
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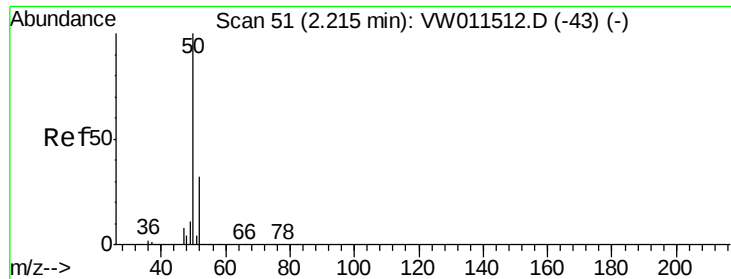
10000

5000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 20.799 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

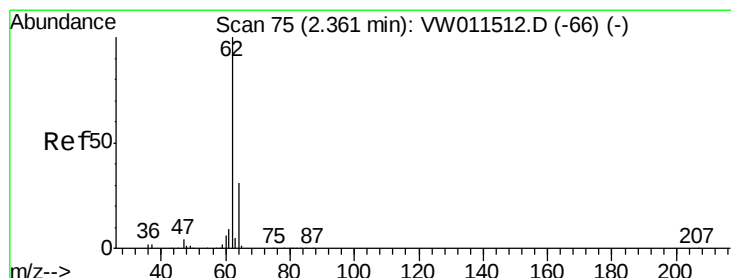
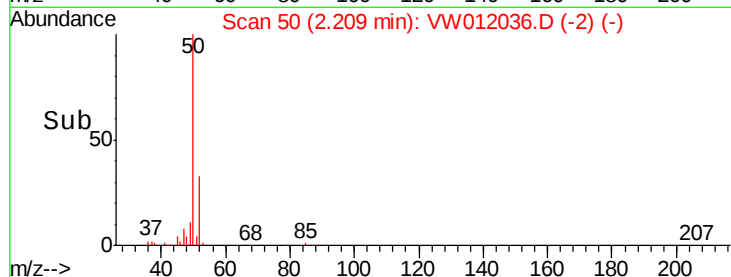
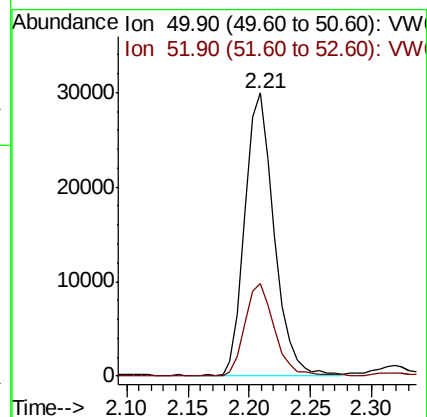
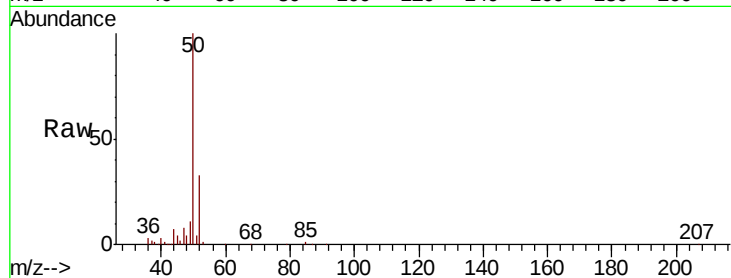
VW0820SBS02

Tgt Ion: 50 Resp: 49605

Ion Ratio Lower Upper

50 100

52 33.0 25.4 38.2



#4

Vinyl Chloride

Concen: 21.072 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012036.D

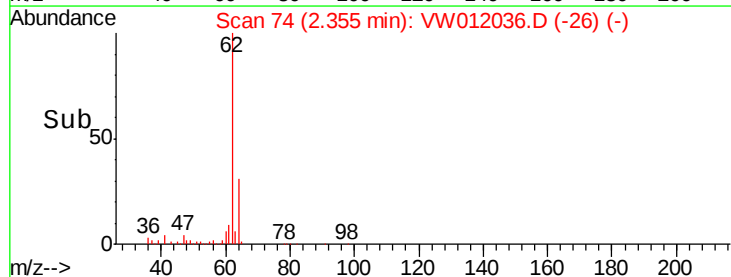
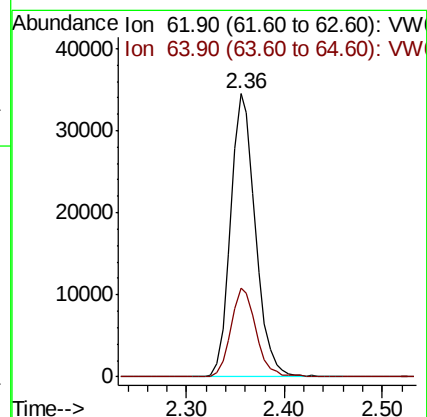
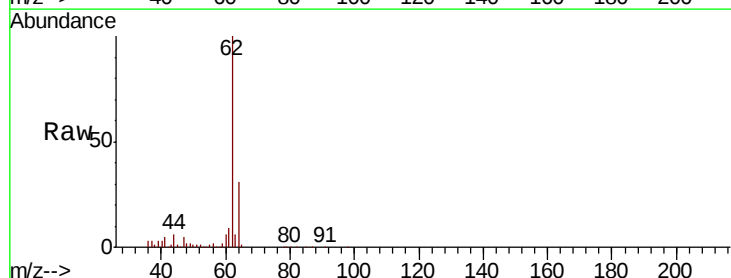
Acq: 20 Aug 2019 18:19

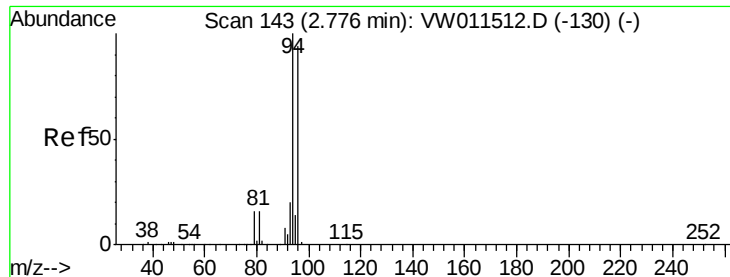
Tgt Ion: 62 Resp: 60505

Ion Ratio Lower Upper

62 100

64 31.2 25.0 37.4





#5

Bromomethane

Concen: 19.424 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

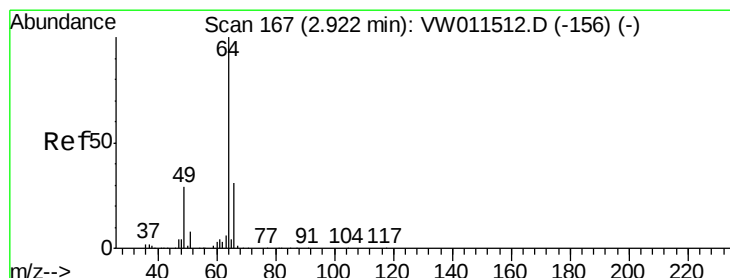
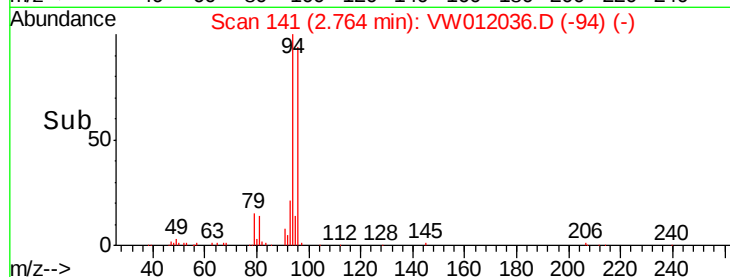
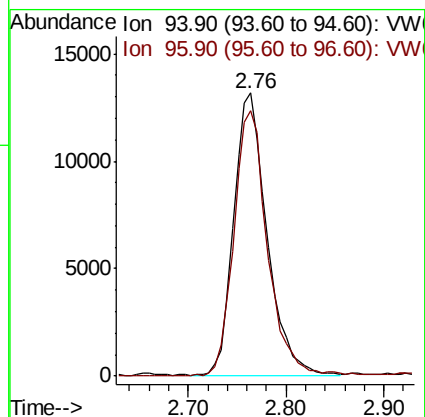
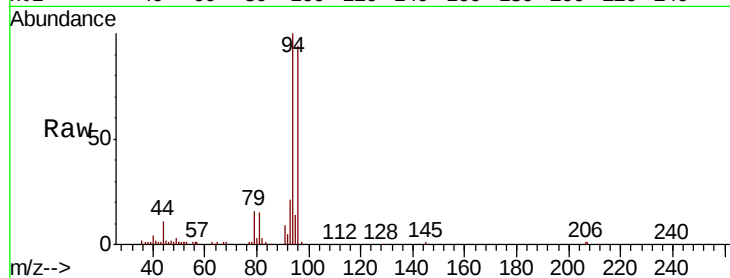
VW0820SBS02

Tgt Ion: 94 Resp: 30872

Ion Ratio Lower Upper

94 100

96 94.2 75.0 112.6



#6

Chloroethane

Concen: 20.856 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW012036.D

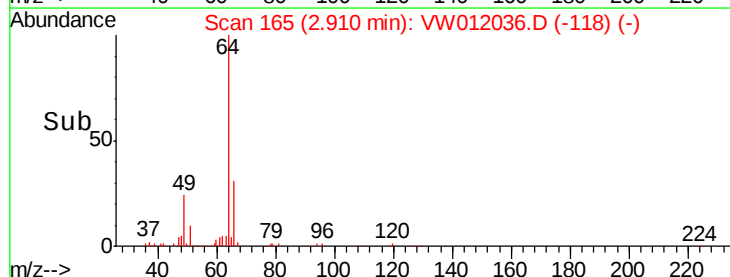
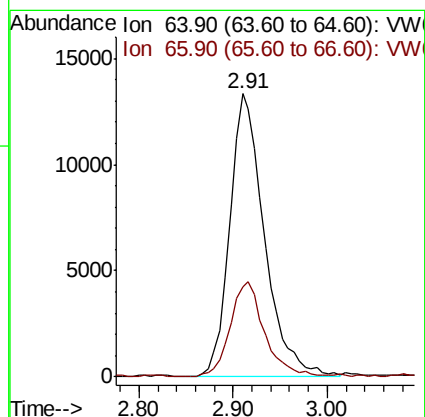
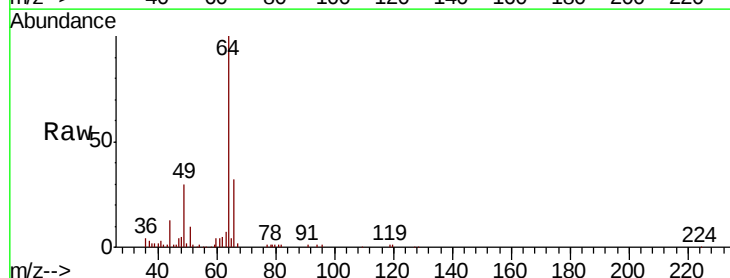
Acq: 20 Aug 2019 18:19

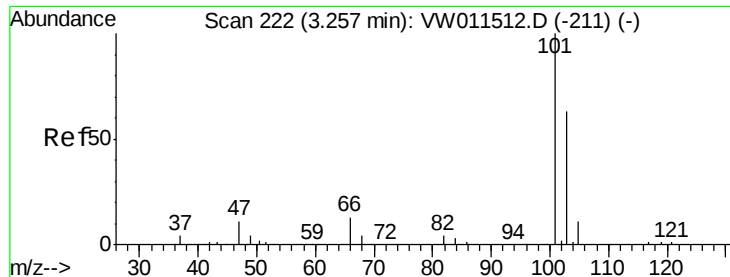
Tgt Ion: 64 Resp: 34207

Ion Ratio Lower Upper

64 100

66 31.8 24.6 36.8



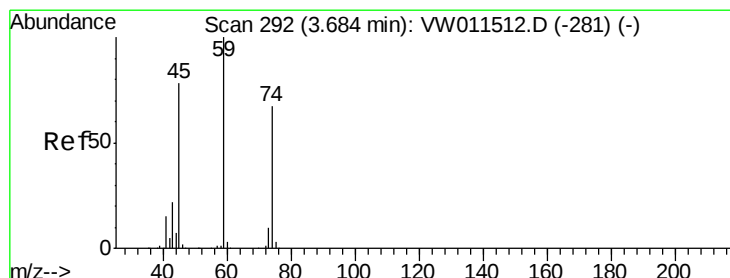
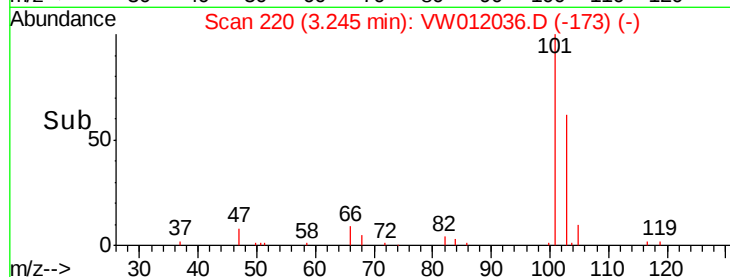
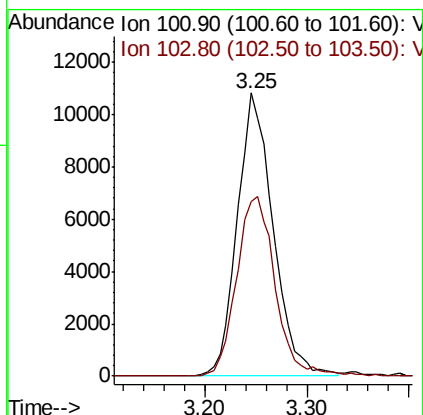
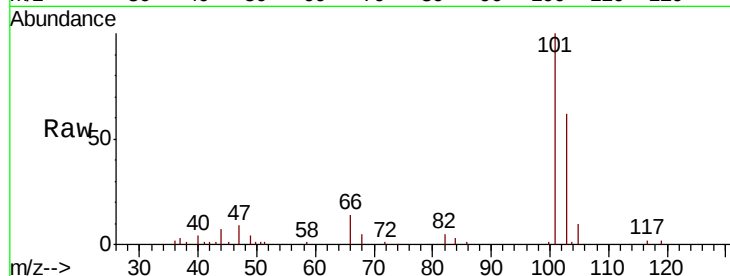


#7

Trichlorofluoromethane  
Concen: 20.618 ug/l  
RT: 3.25 min Scan# 220  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

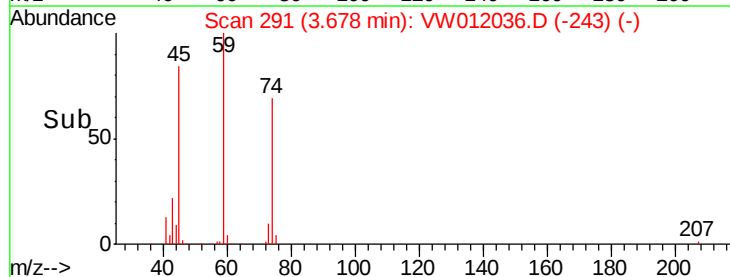
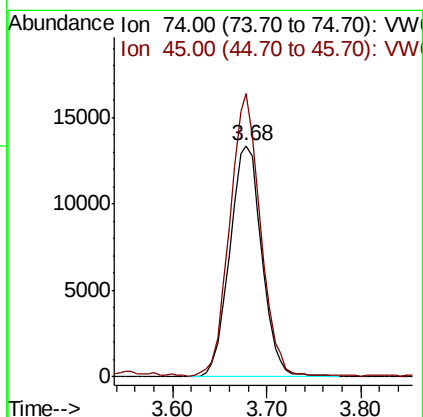
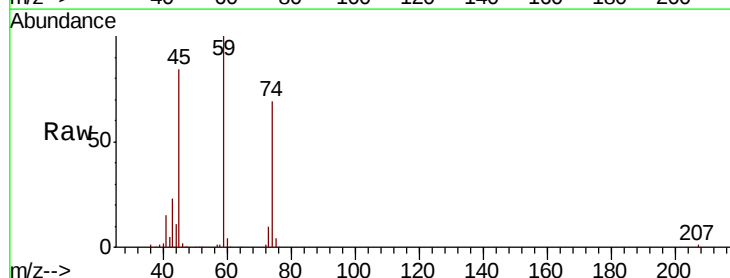
Tgt Ion:101 Resp: 26458  
Ion Ratio Lower Upper  
101 100  
103 61.7 50.2 75.4

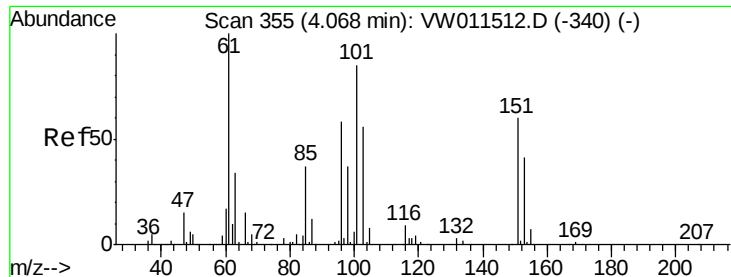


#8

Diethyl Ether  
Concen: 21.663 ug/l  
RT: 3.68 min Scan# 291  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 74 Resp: 31519  
Ion Ratio Lower Upper  
74 100  
45 117.9 59.6 178.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.118 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

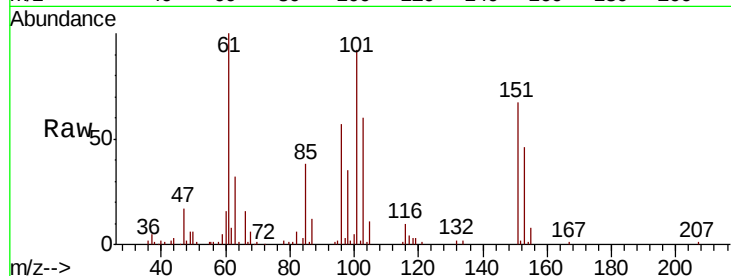
Tgt Ion:101 Resp: 53842

Ion Ratio Lower Upper

101 100

85 43.9 36.6 54.8

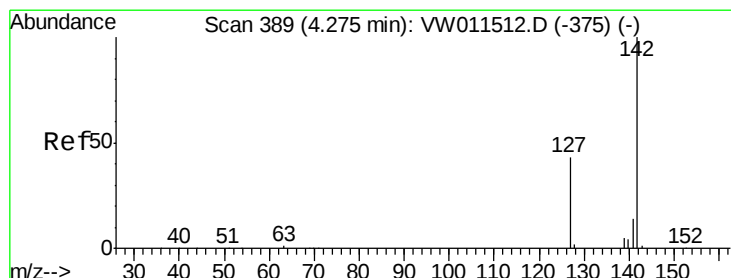
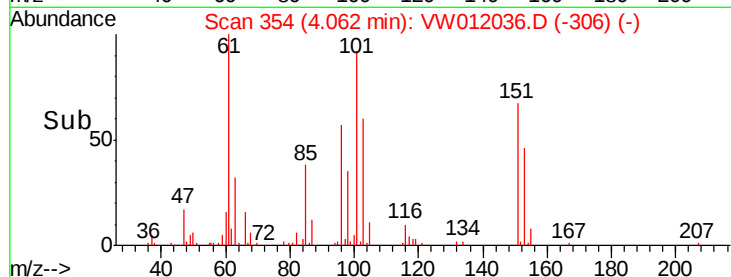
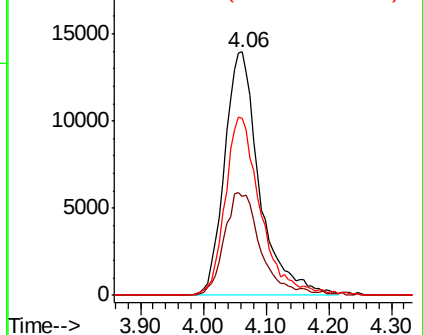
151 74.5 60.2 90.2



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: 20.830 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

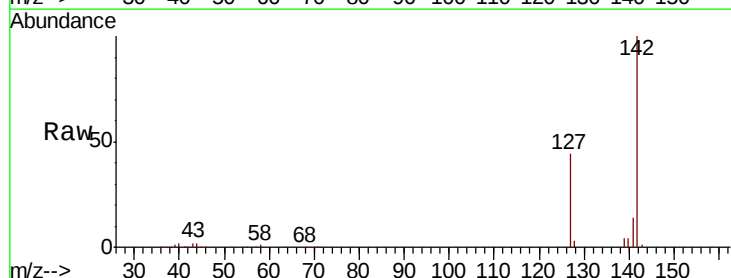
Tgt Ion:142 Resp: 71658

Ion Ratio Lower Upper

142 100

127 43.4 35.0 52.6

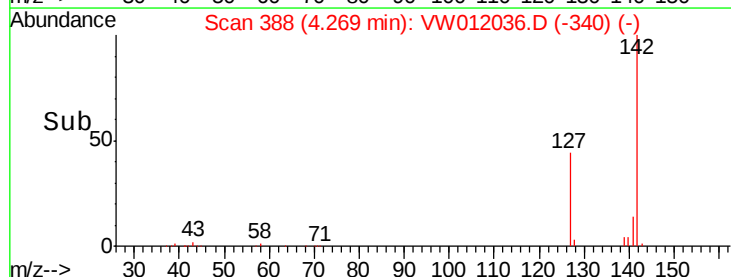
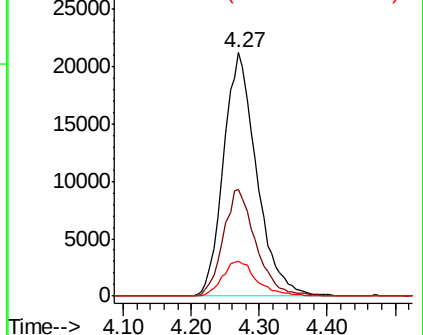
141 14.8 11.9 17.9

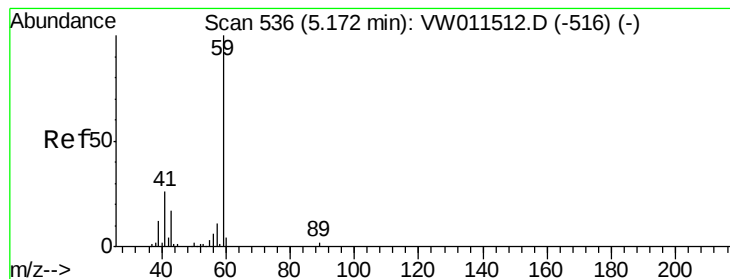


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 93.340 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

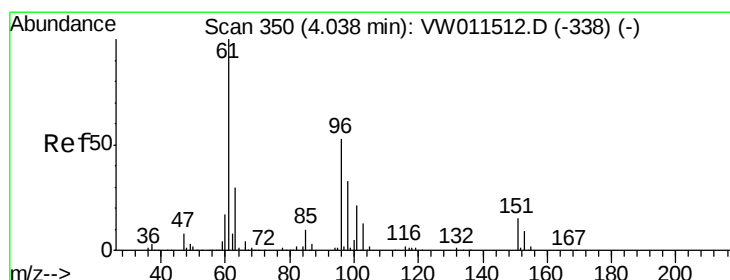
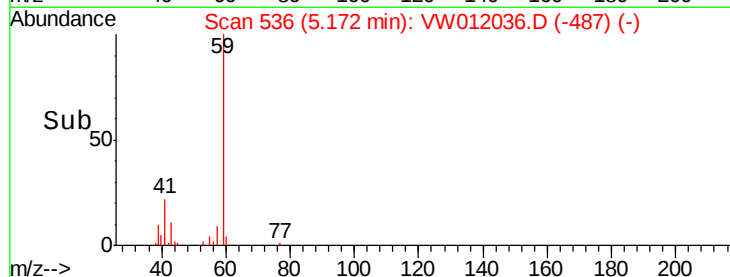
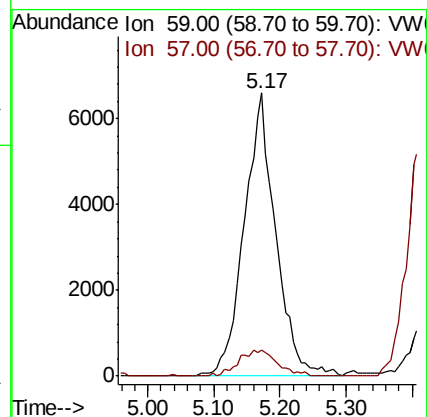
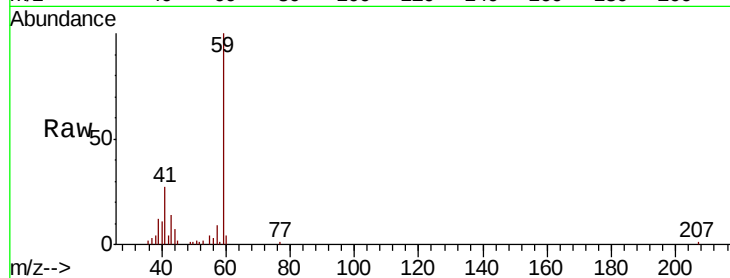
VW0820SBS02

Tgt Ion: 59 Resp: 21858

Ion Ratio Lower Upper

59 100

57 11.2 8.5 12.7



#12

1,1-Dichloroethene

Concen: 21.133 ug/l

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

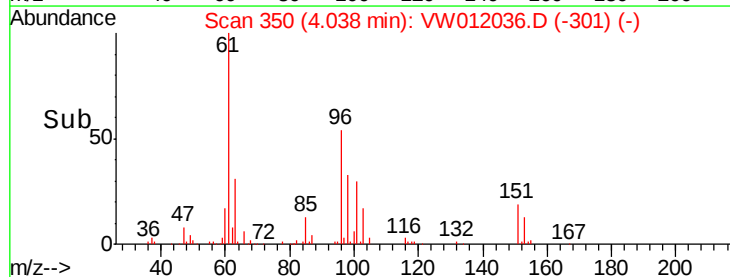
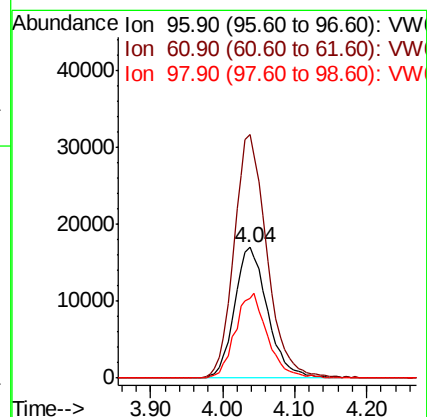
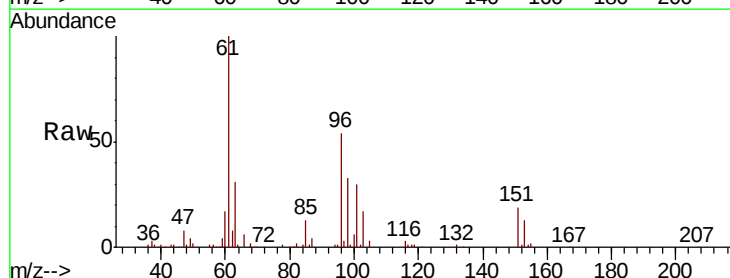
Tgt Ion: 96 Resp: 54316

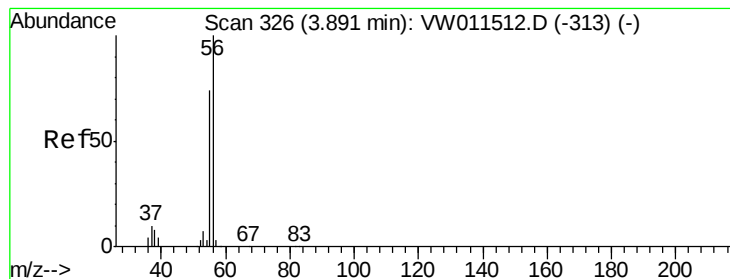
Ion Ratio Lower Upper

96 100

61 186.6 149.9 224.9

98 61.6 49.1 73.7





#13

Acrolein

Concen: 61.296 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

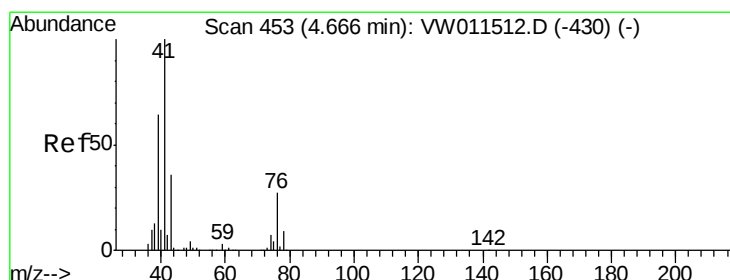
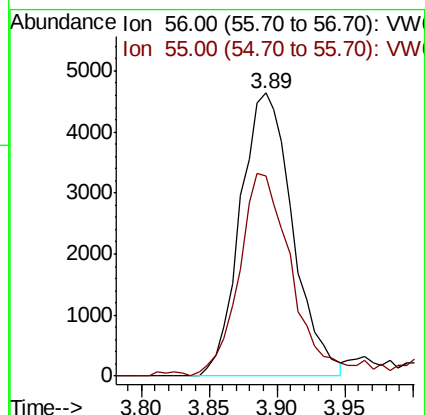
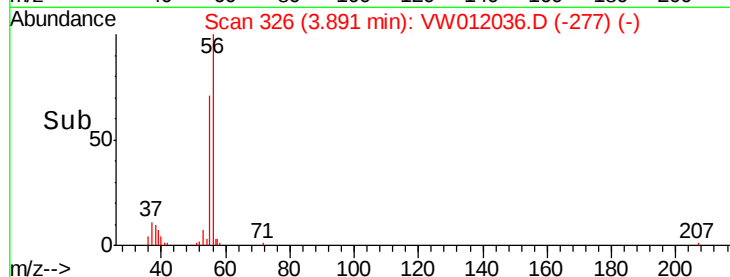
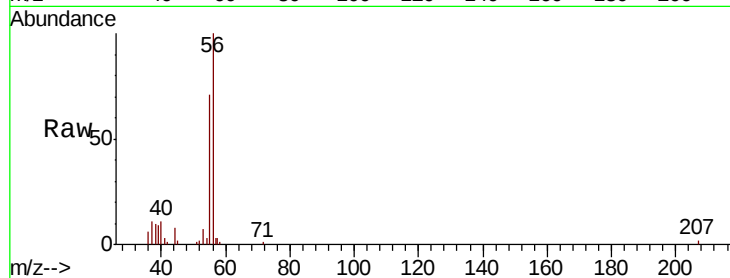
VW0820SBS02

Tgt Ion: 56 Resp: 12464

Ion Ratio Lower Upper

56 100

55 71.6 56.0 84.0



#14

Allyl chloride

Concen: 20.529 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

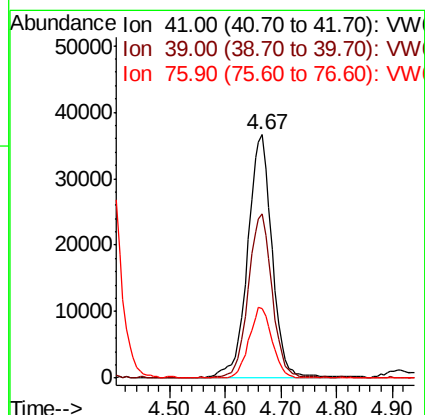
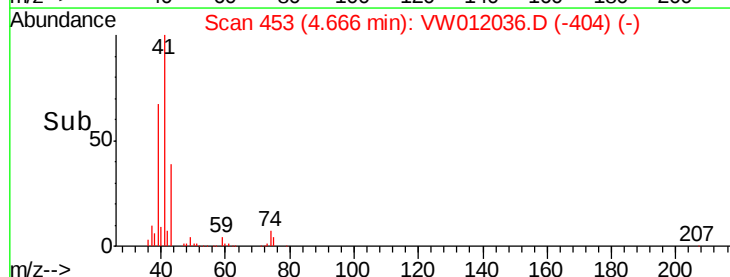
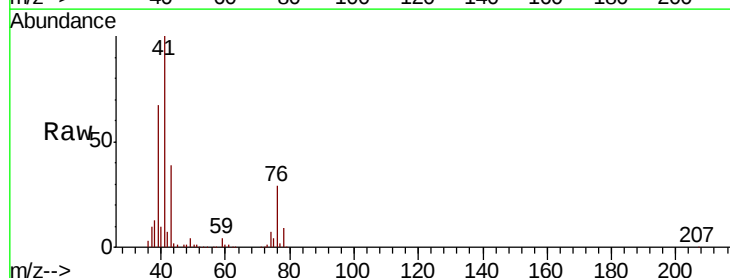
Tgt Ion: 41 Resp: 112224

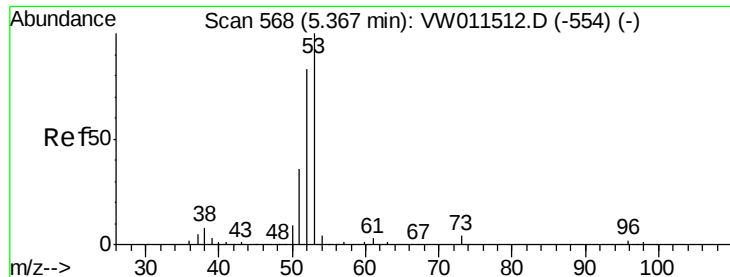
Ion Ratio Lower Upper

41 100

39 64.3 52.6 78.8

76 27.3 22.0 33.0





#15

Acrylonitrile

Concen: 108.501 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

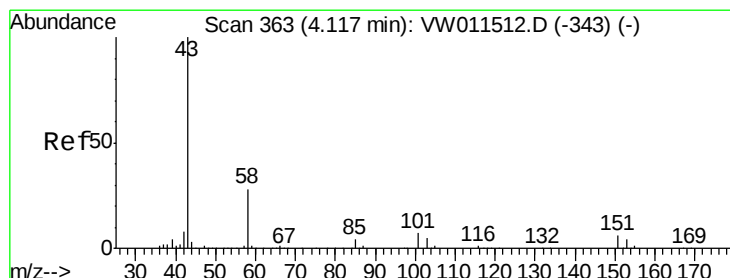
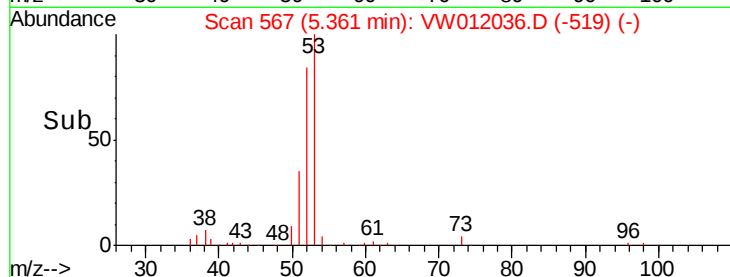
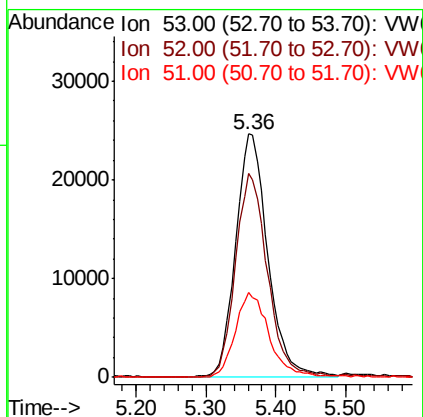
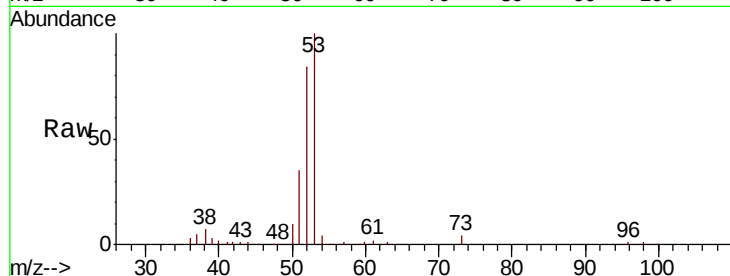
Tgt Ion: 53 Resp: 78805

Ion Ratio Lower Upper

53 100

52 83.4 67.2 100.8

51 37.0 30.0 45.0



#16

Acetone

Concen: 83.663 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW012036.D

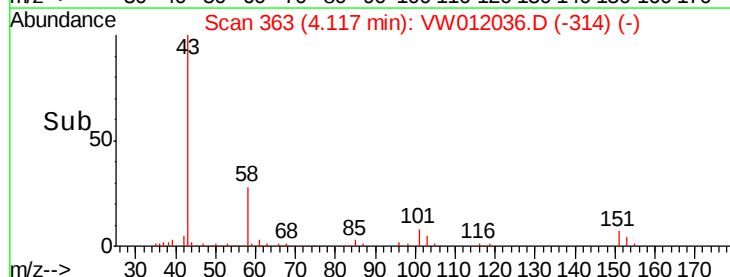
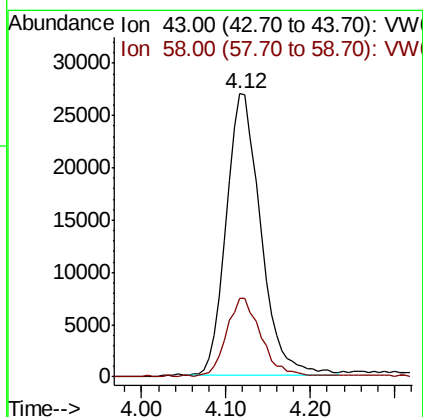
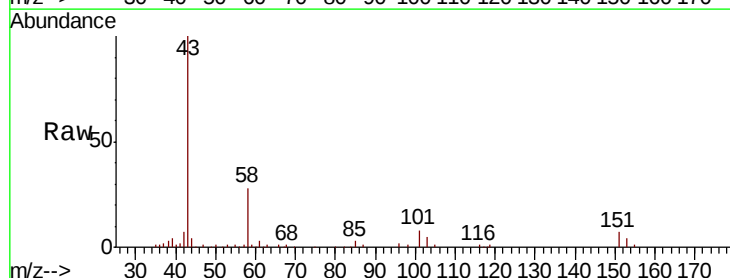
Acq: 20 Aug 2019 18:19

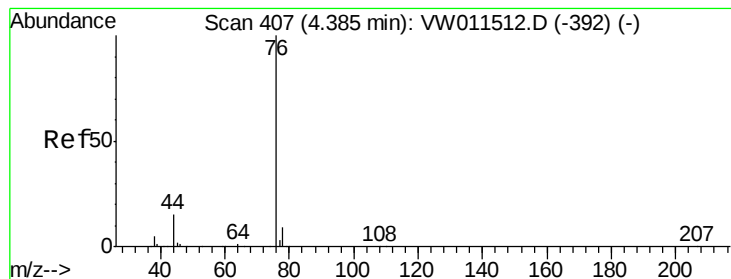
Tgt Ion: 43 Resp: 75418

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5





#17

Carbon Disulfide

Concen: 18.895 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

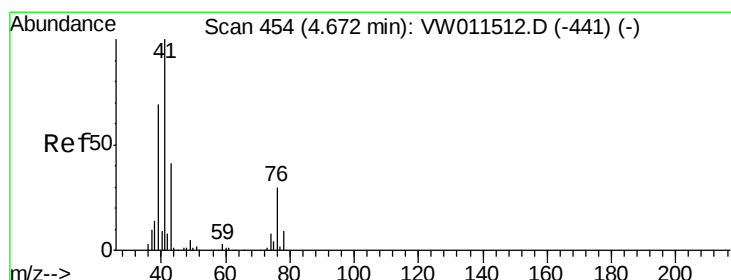
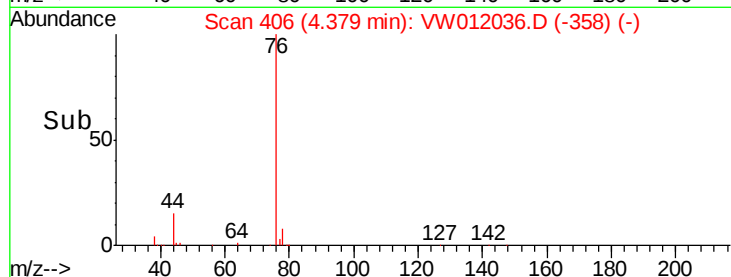
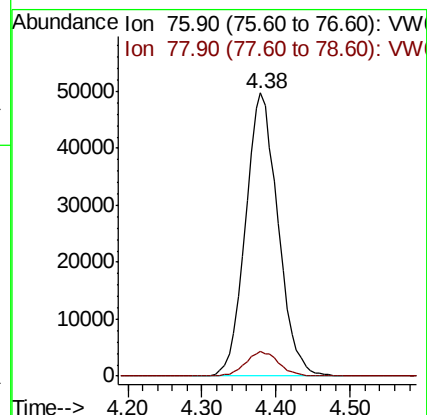
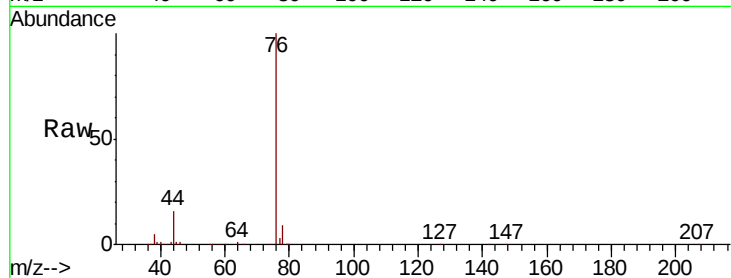
VW0820SBS02

Tgt Ion: 76 Resp: 151998

Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7



#18

Methyl Acetate

Concen: 21.447 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW012036.D

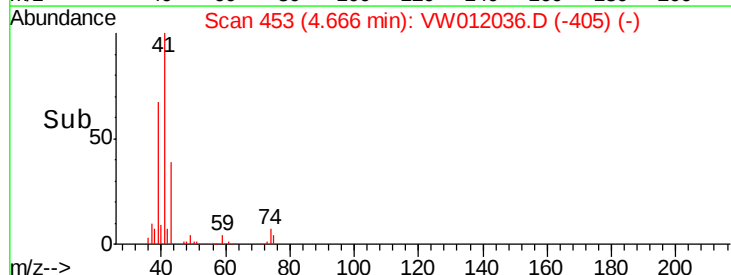
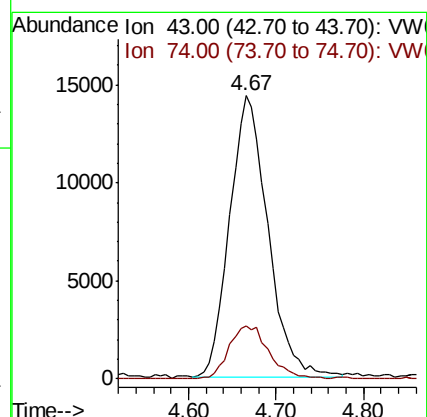
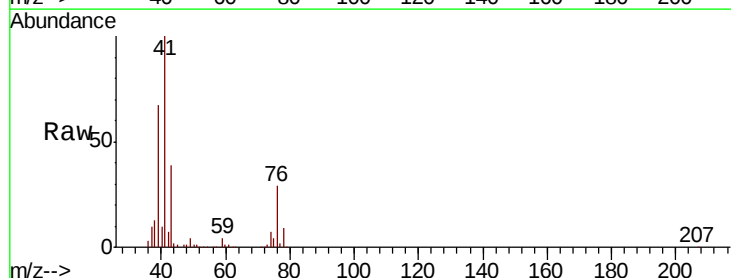
Acq: 20 Aug 2019 18:19

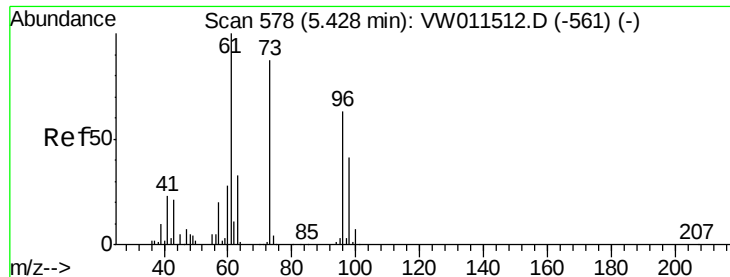
Tgt Ion: 43 Resp: 43433

Ion Ratio Lower Upper

43 100

74 19.8 15.9 23.9

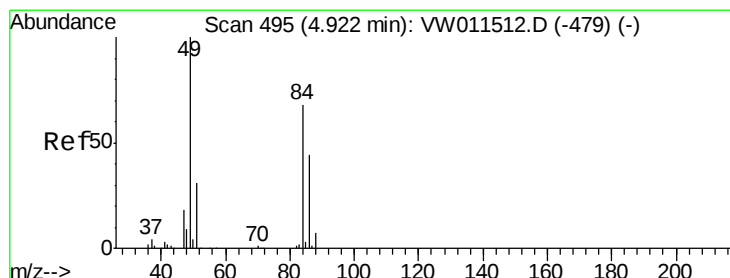
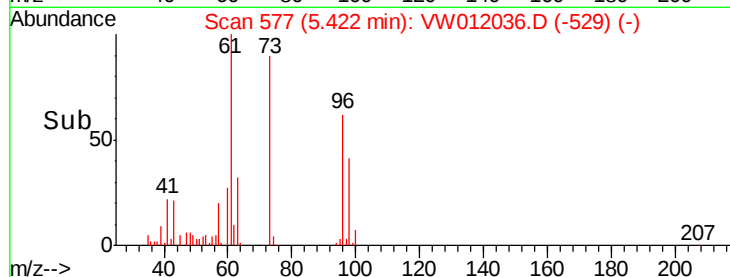
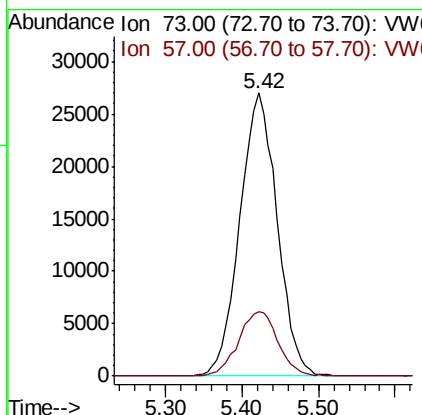
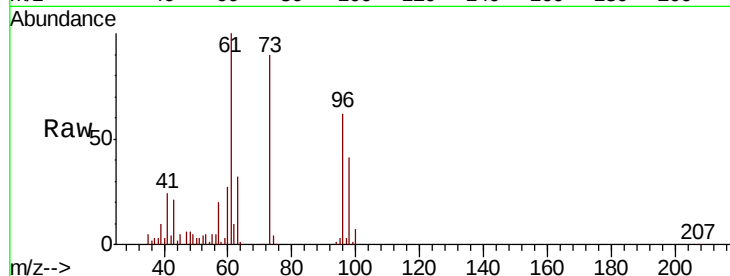




#19  
Methyl tert-butyl Ether  
Concen: 22.480 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

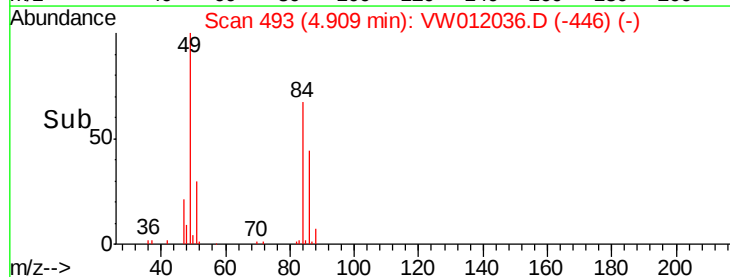
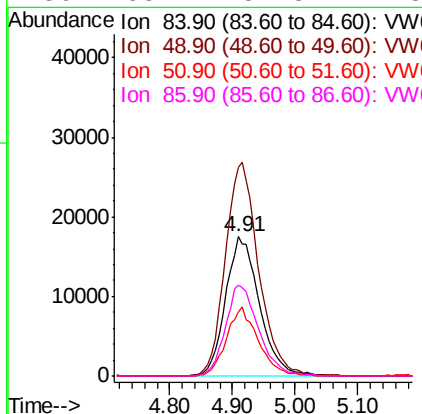
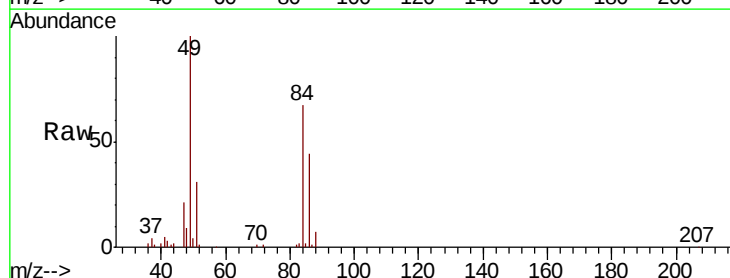
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

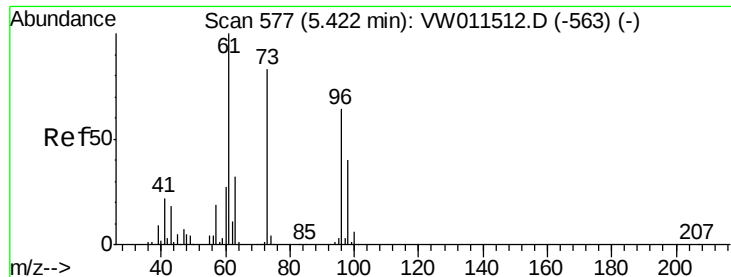
Tgt Ion: 73 Resp: 91687  
Ion Ratio Lower Upper  
73 100  
57 22.6 18.4 27.6



#20  
Methylene Chloride  
Concen: 21.005 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 84 Resp: 65302  
Ion Ratio Lower Upper  
84 100  
49 149.5 117.8 176.6  
51 46.0 37.0 55.4  
86 65.1 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 20.965 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

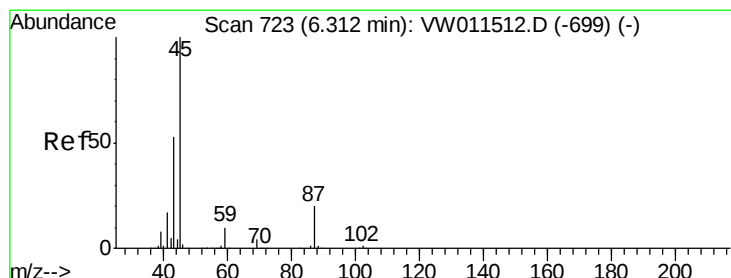
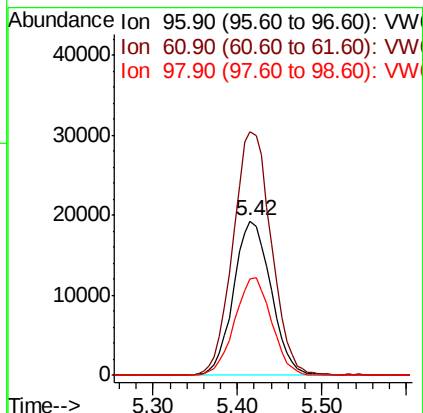
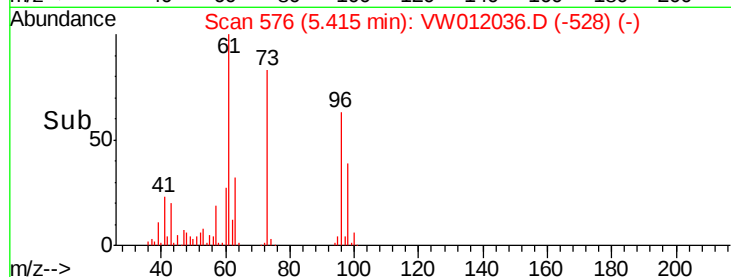
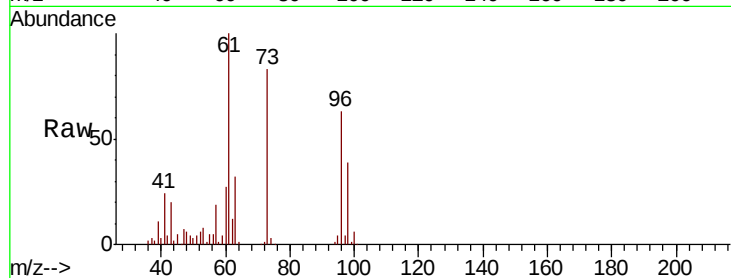
Tgt Ion: 96 Resp: 58095

Ion Ratio Lower Upper

96 100

61 157.9 125.7 188.5

98 62.1 50.3 75.5



#22

Diisopropyl ether

Concen: 21.444 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Tgt Ion: 45 Resp: 221021

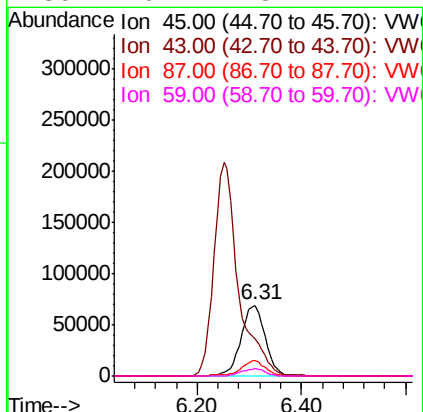
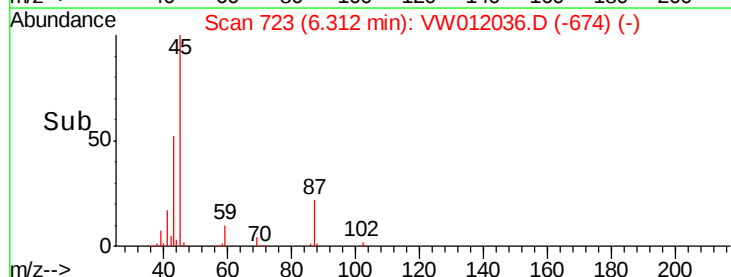
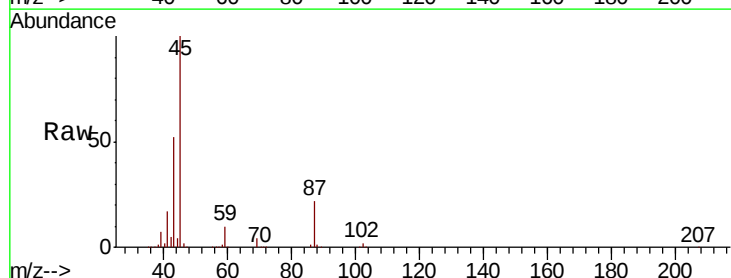
Ion Ratio Lower Upper

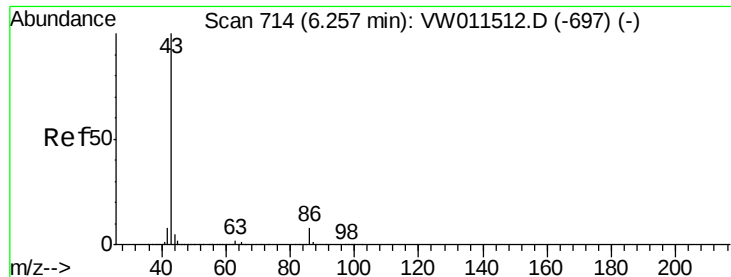
45 100

43 52.1 42.6 63.8

87 21.6 16.4 24.6

59 10.1 8.2 12.2





#23

Vinyl Acetate

Concen: 105.929 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

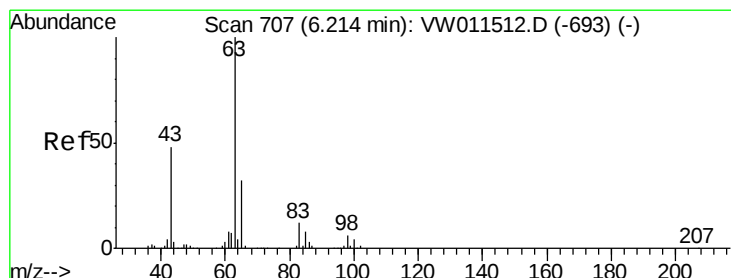
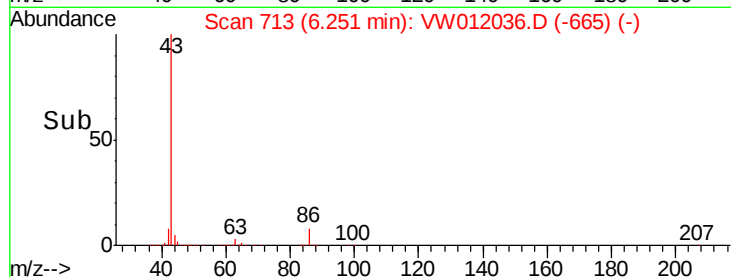
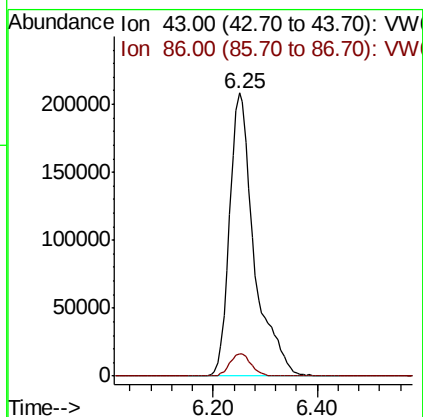
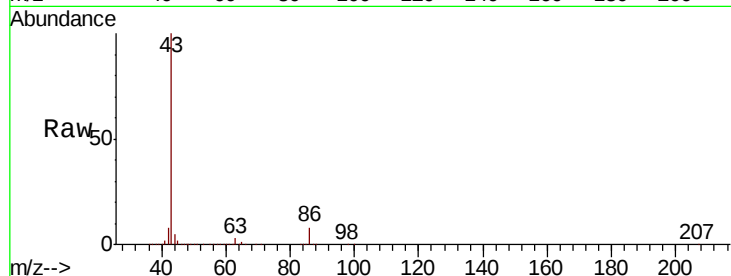
VW0820SBS02

Tgt Ion: 43 Resp: 686028

Ion Ratio Lower Upper

43 100

86 8.0 6.5 9.7



#24

1,1-Dichloroethane

Concen: 21.056 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

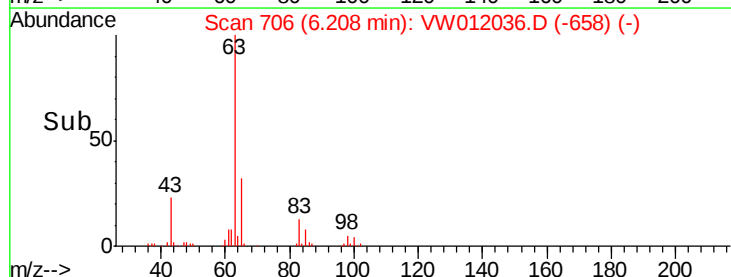
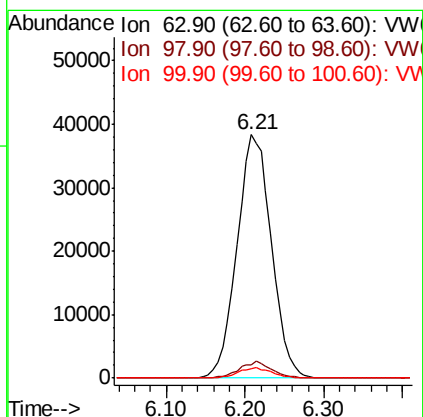
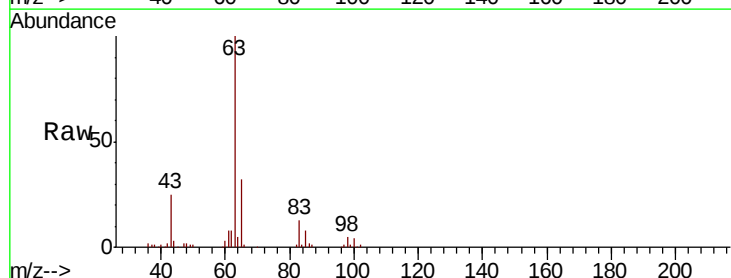
Tgt Ion: 63 Resp: 116230

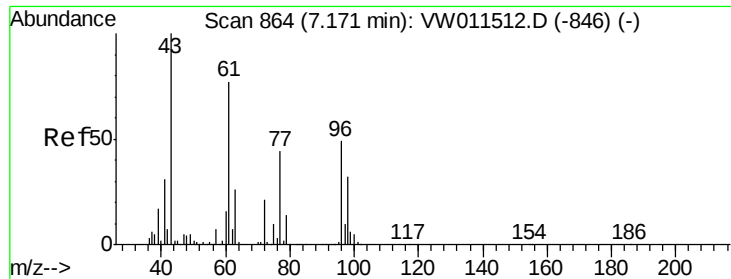
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.8

100 3.9 2.1 6.3





#25

2-Butanone

Concen: 95.810 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

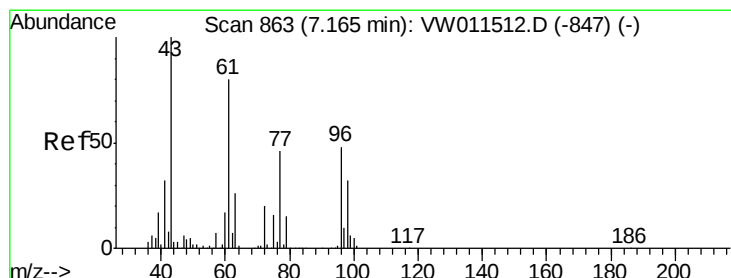
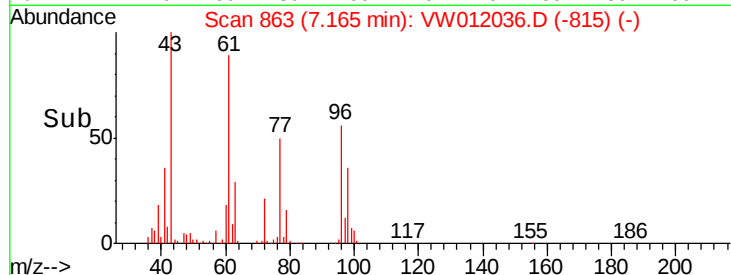
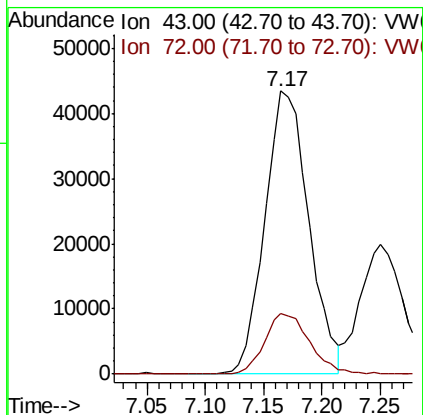
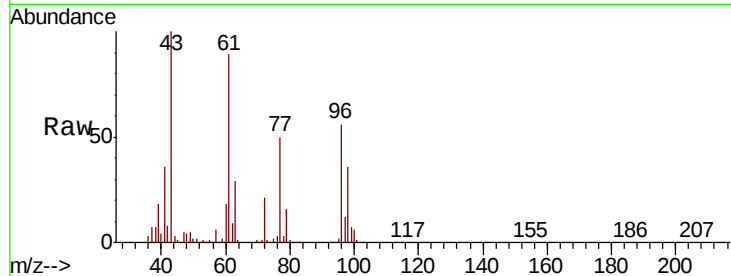
VW0820SBS02

Tgt Ion: 43 Resp: 113015

Ion Ratio Lower Upper

43 100

72 21.5 16.6 24.8



#26

2,2-Dichloropropane

Concen: 18.870 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW012036.D

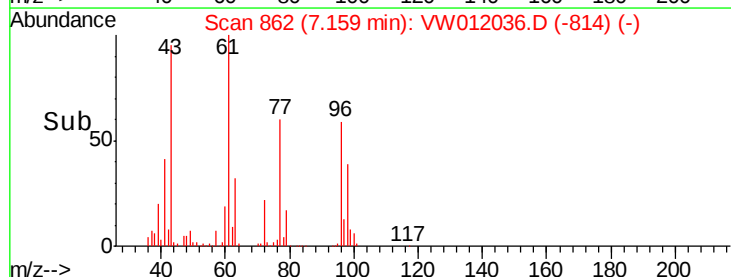
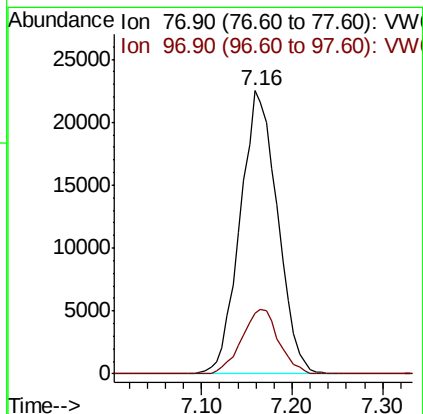
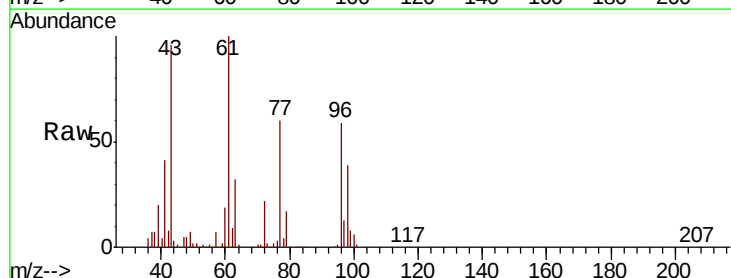
Acq: 20 Aug 2019 18:19

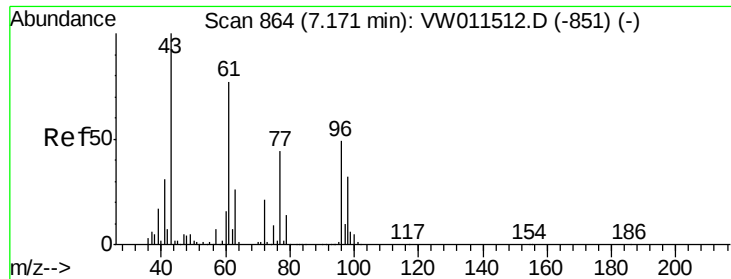
Tgt Ion: 77 Resp: 64059

Ion Ratio Lower Upper

77 100

97 22.6 10.8 32.4



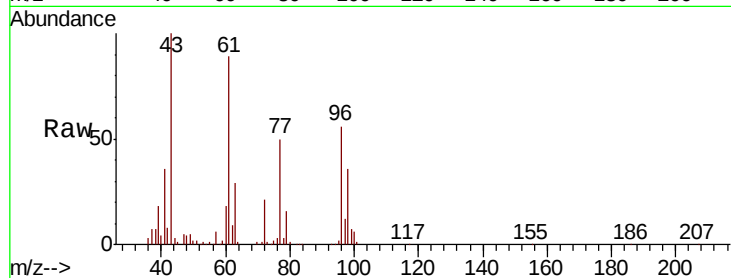


#27

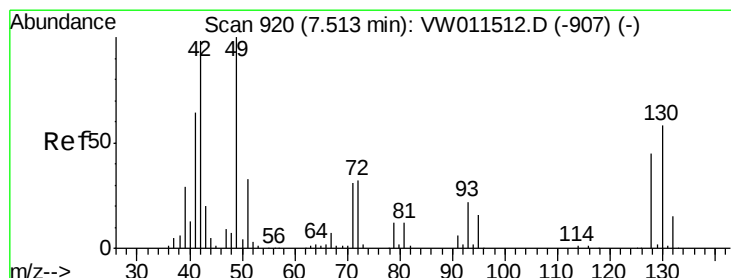
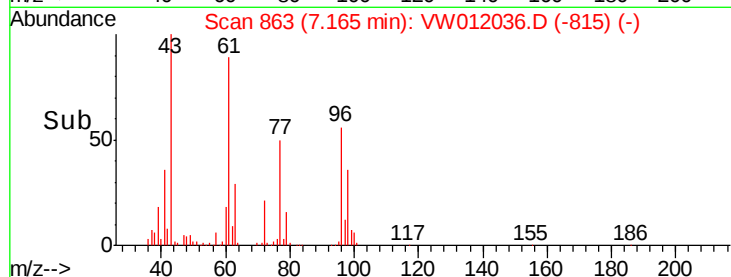
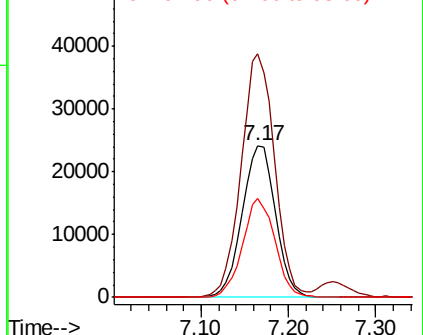
cis-1,2-Dichloroethene  
 Concen: 21.019 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VW0820SBS02

Tgt Ion: 96 Resp: 64103  
 Ion Ratio Lower Upper  
 96 100  
 61 160.4 0.0 328.4  
 98 63.5 0.0 128.8



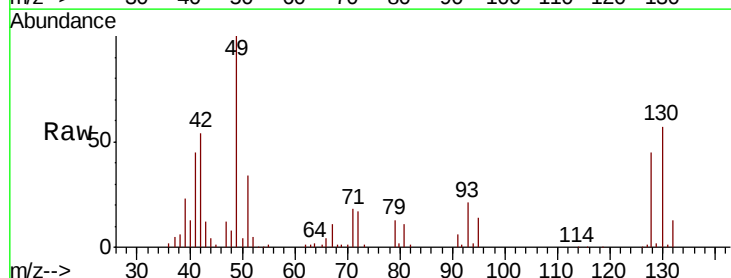
Abundance Ion 95.90 (95.60 to 96.60): VW  
 Ion 60.90 (60.60 to 61.60): VW  
 Ion 97.90 (97.60 to 98.60): VW



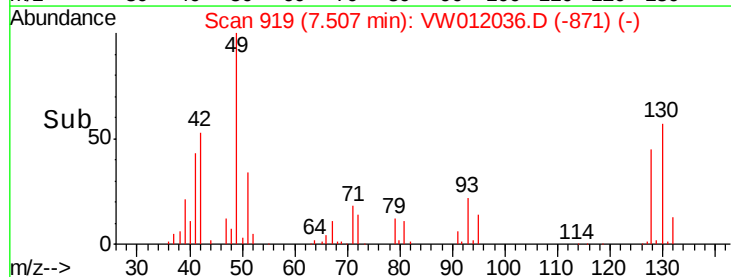
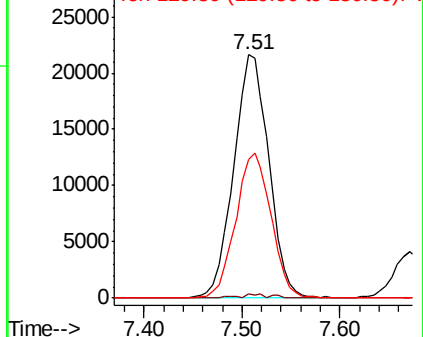
#28

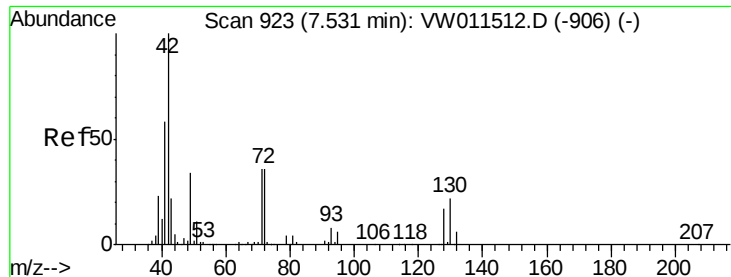
Bromochloromethane  
 Concen: 21.962 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.01 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 49 Resp: 53810  
 Ion Ratio Lower Upper  
 49 100  
 129 1.0 0.0 1.0  
 130 60.0 46.3 69.5



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

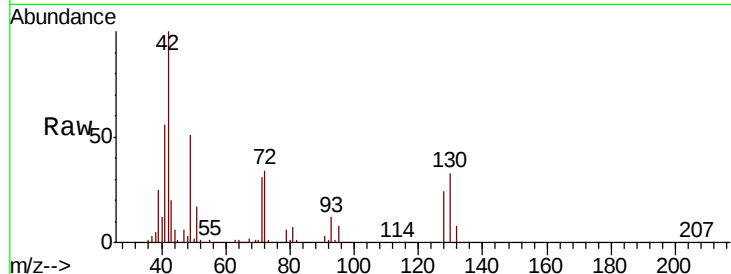




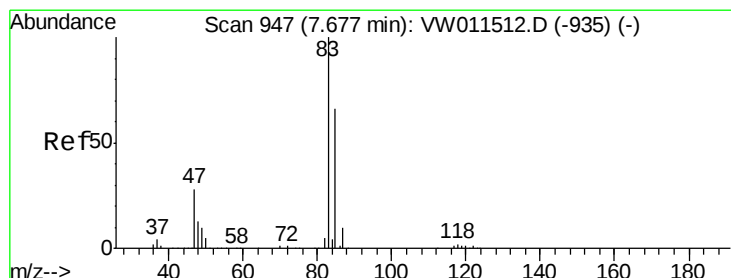
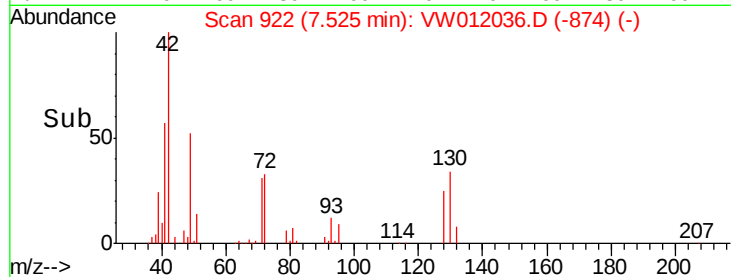
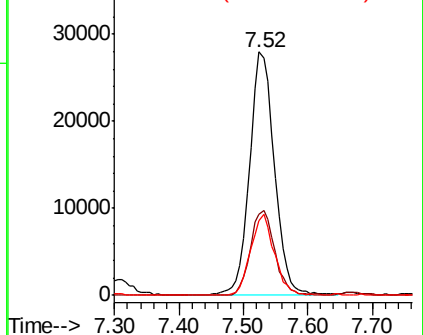
#29  
Tetrahydrofuran  
Concen: 109.797 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion: 42 Resp: 74031  
Ion Ratio Lower Upper  
42 100  
72 33.9 27.1 40.7  
71 31.6 26.2 39.4

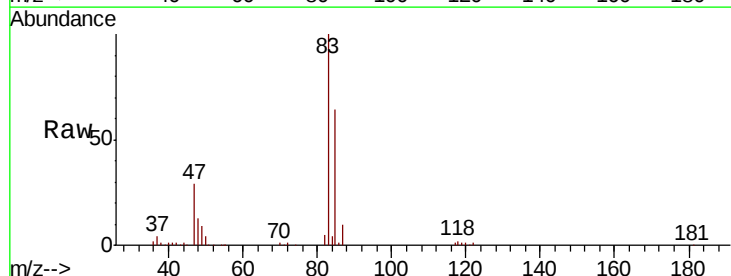


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

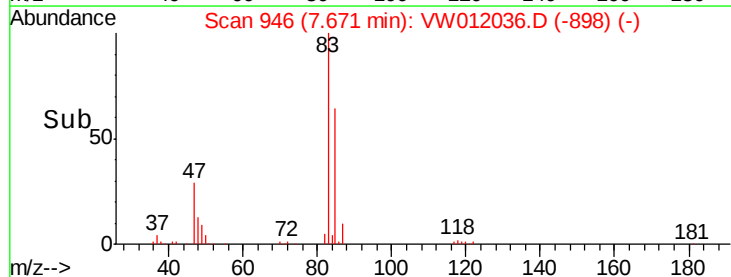
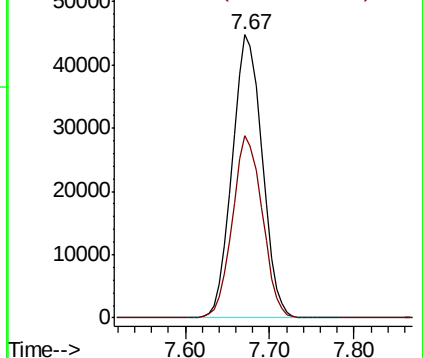


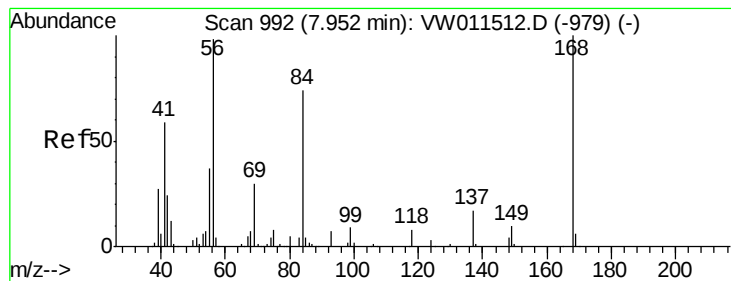
#30  
Chloroform  
Concen: 21.154 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 83 Resp: 107726  
Ion Ratio Lower Upper  
83 100  
85 64.4 52.5 78.7



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





#31

Cyclohexane

Concen: 20.552 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

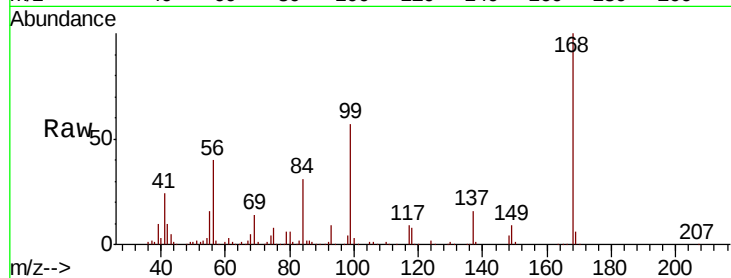
Tgt Ion: 56 Resp: 108900

Ion Ratio Lower Upper

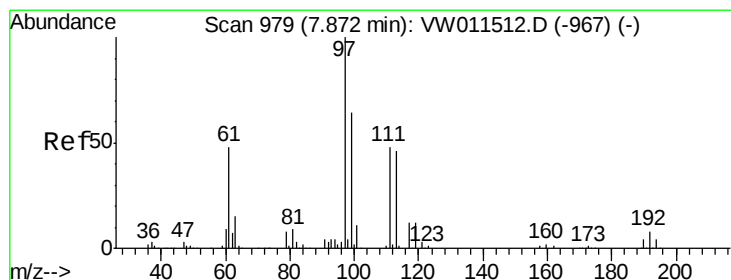
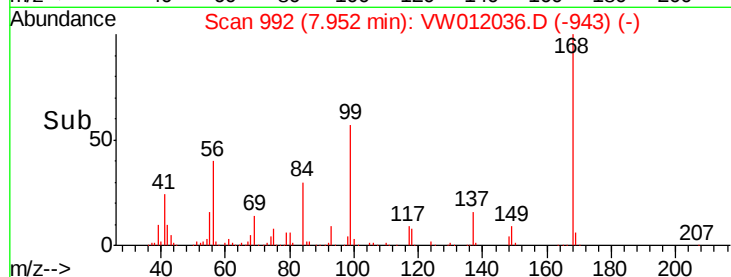
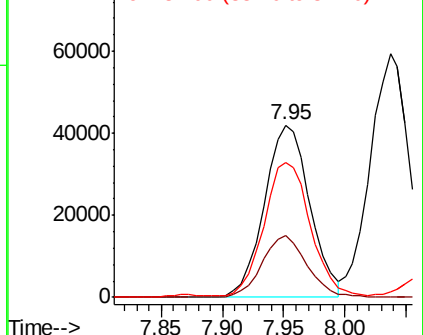
56 100

69 36.3 24.3 36.5

84 77.1 60.4 90.6



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



#32

1,1,1-Trichloroethane

Concen: 21.743 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

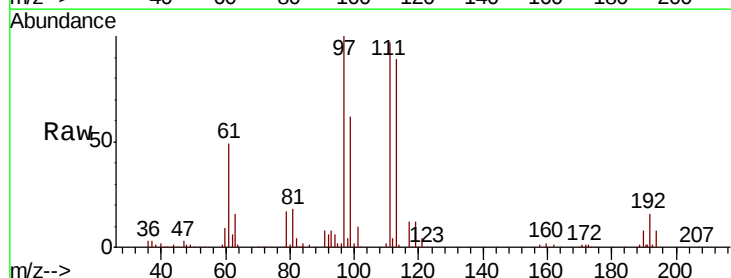
Tgt Ion: 97 Resp: 84324

Ion Ratio Lower Upper

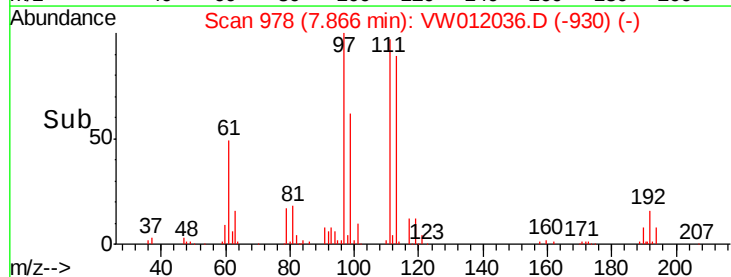
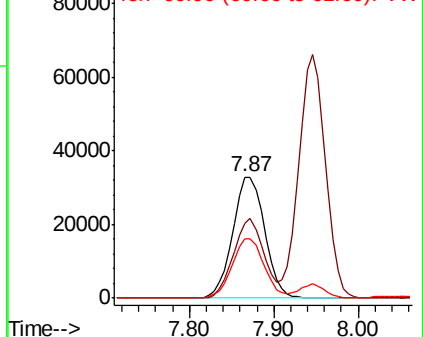
97 100

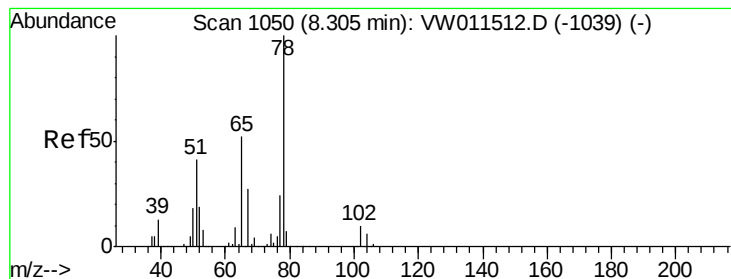
99 62.2 51.0 76.6

61 49.0 39.8 59.6



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





#33

1,2-Dichloroethane-d4

Concen: 52.188 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

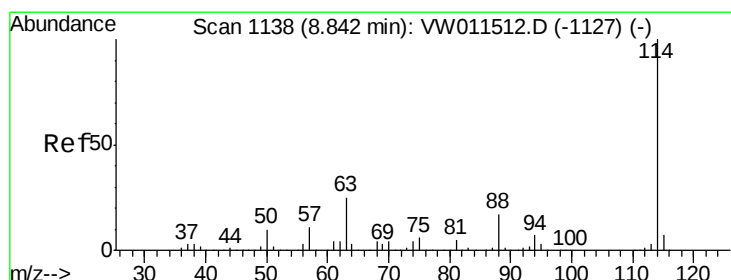
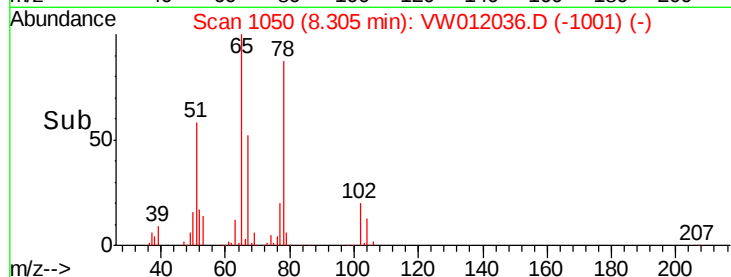
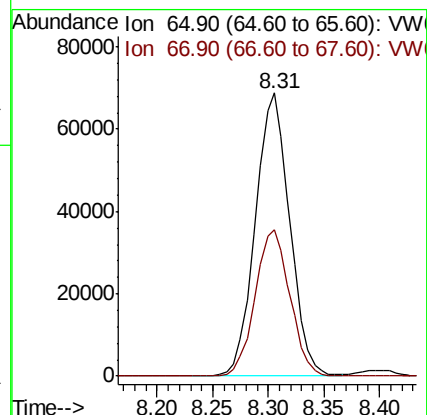
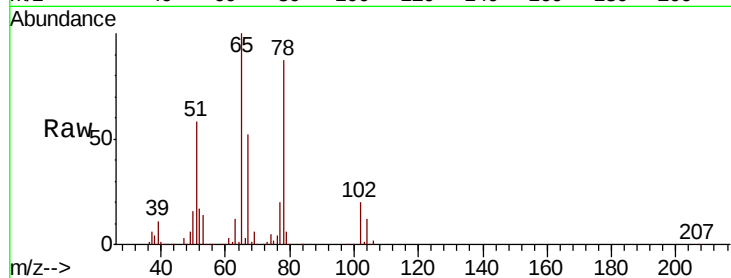
VW0820SBS02

Tgt Ion: 65 Resp: 147896

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

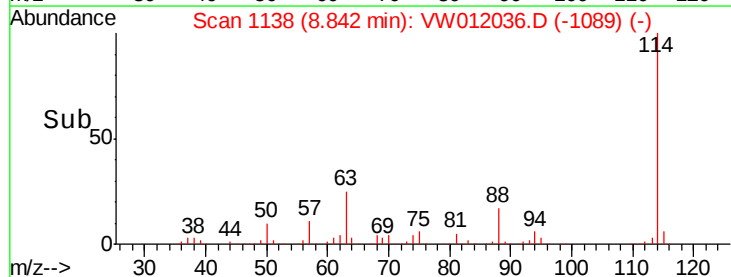
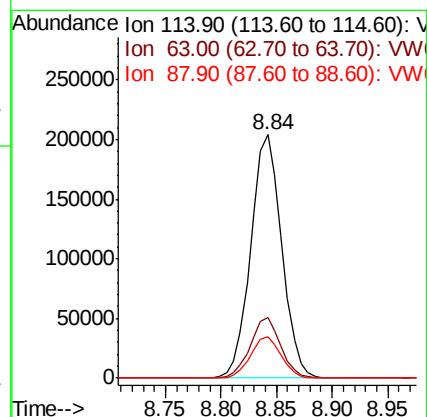
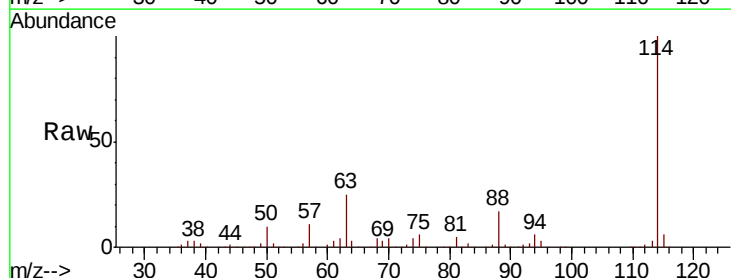
Tgt Ion: 114 Resp: 395016

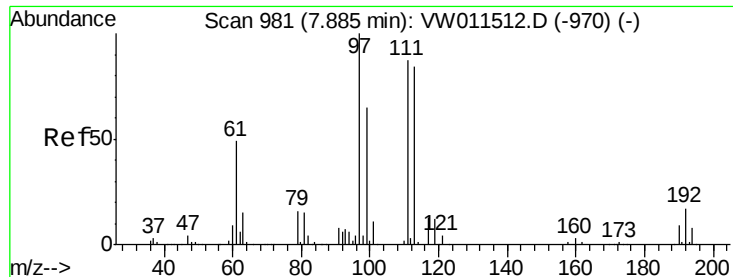
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.2

88 16.8 0.0 33.8

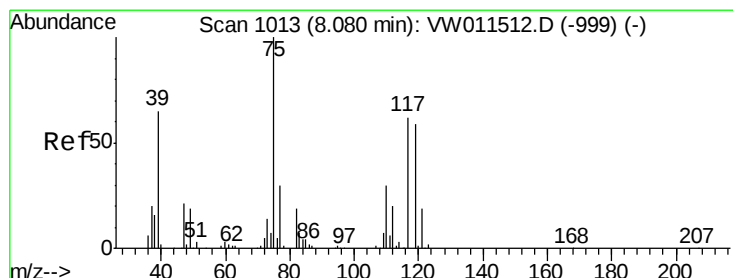
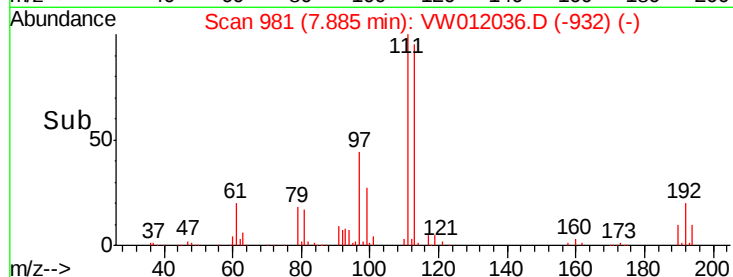
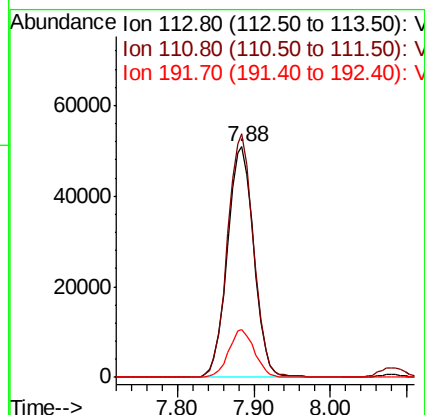
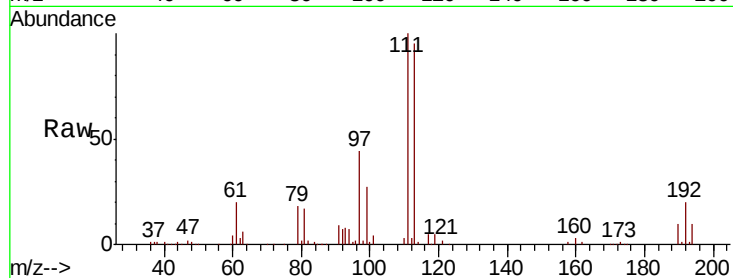




#35  
 Dibromofluoromethane  
 Concen: 54.847 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

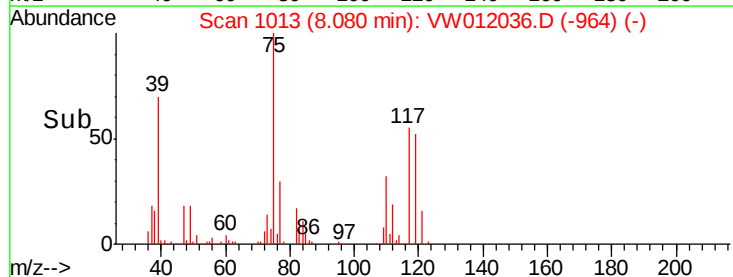
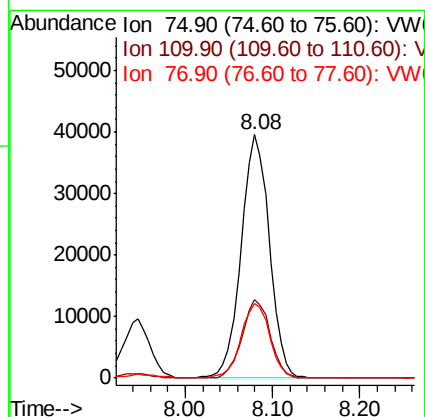
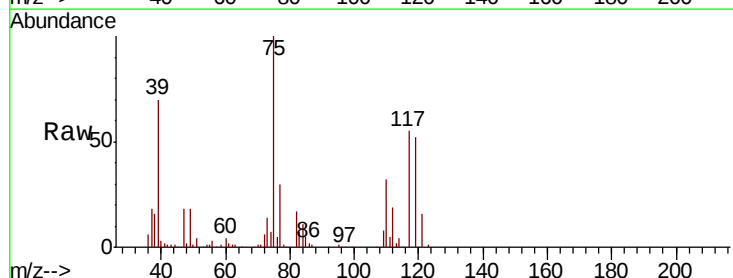
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

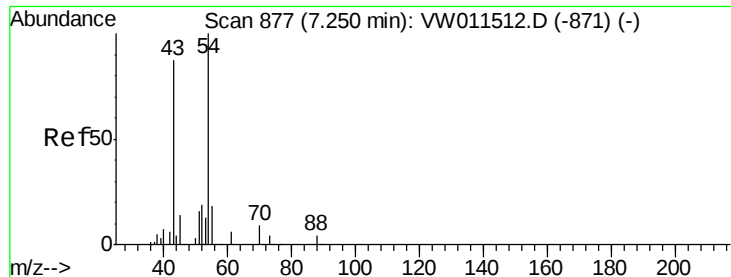
Tgt Ion: 113 Resp: 121548  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 82.7 124.1  
 192 20.1 16.1 24.1



#36  
 1,1-Dichloropropene  
 Concen: 21.613 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 75 Resp: 88775  
 Ion Ratio Lower Upper  
 75 100  
 110 31.7 15.6 46.8  
 77 31.4 24.3 36.5

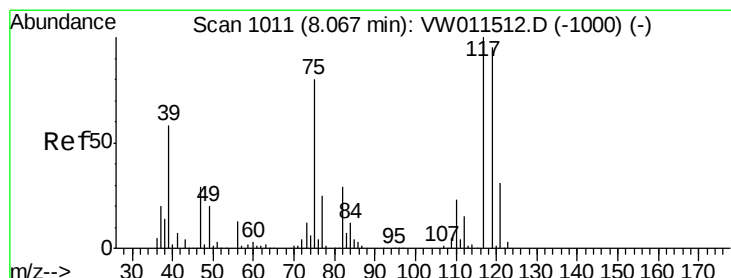
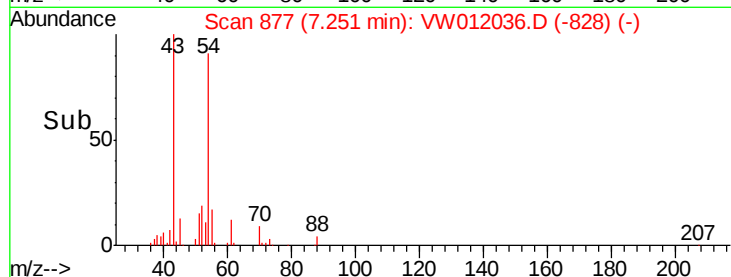
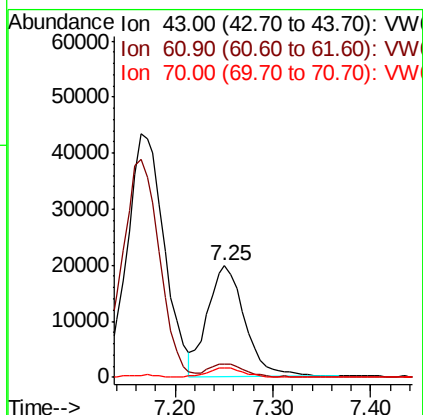
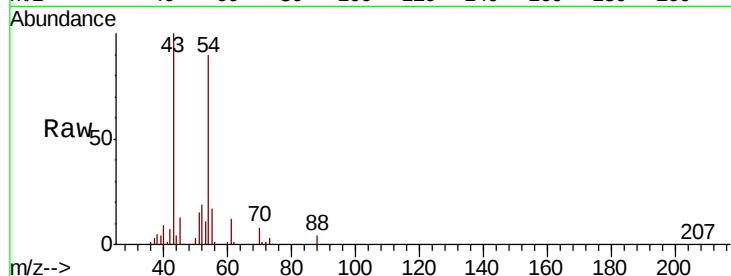




#37  
Ethyl Acetate  
Concen: 21.982 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

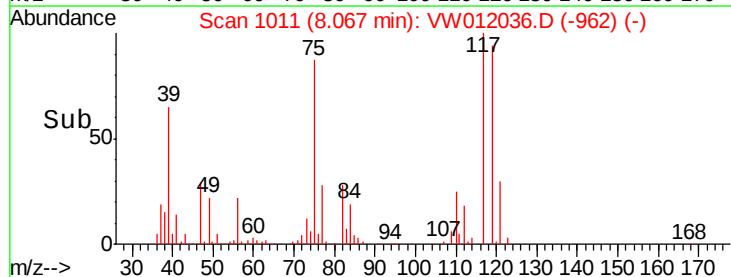
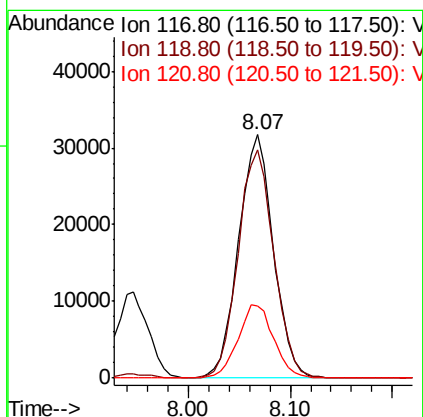
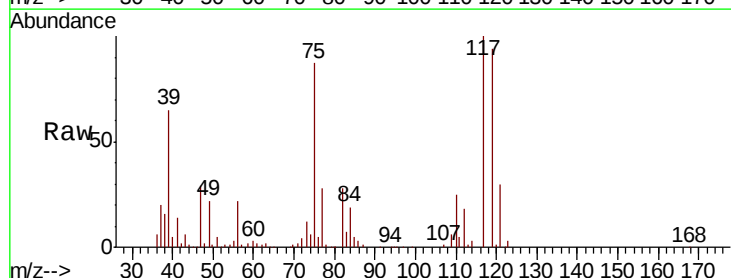
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

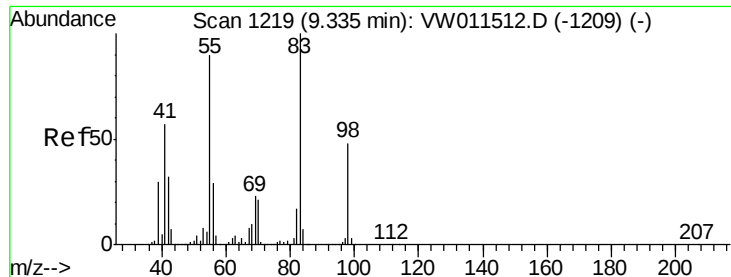
Tgt Ion: 43 Resp: 51946  
Ion Ratio Lower Upper  
43 100  
61 12.4 8.8 13.2  
70 8.5 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 21.418 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 117 Resp: 75310  
Ion Ratio Lower Upper  
117 100  
119 93.7 75.8 113.6  
121 29.7 24.7 37.1

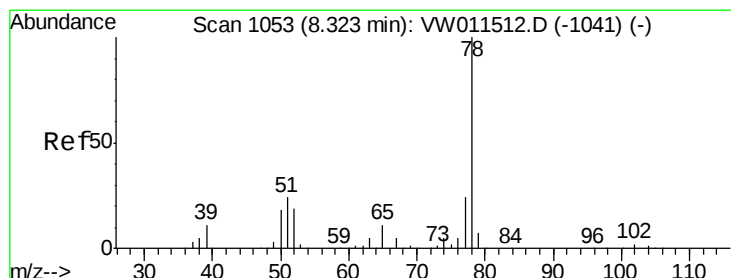
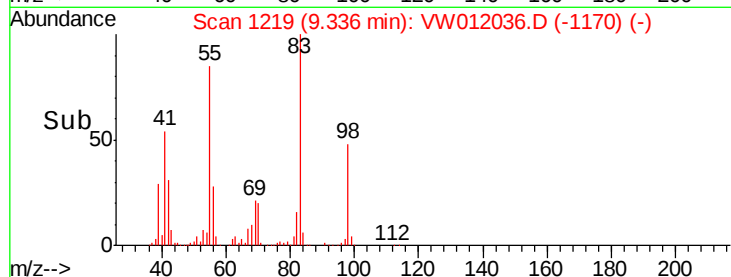
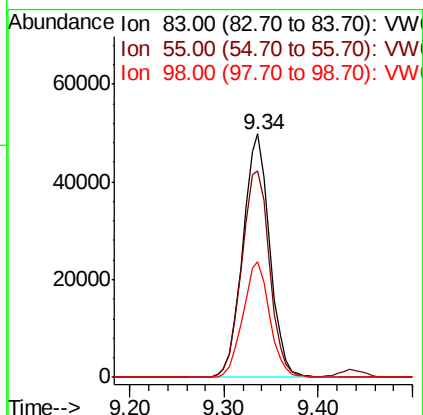
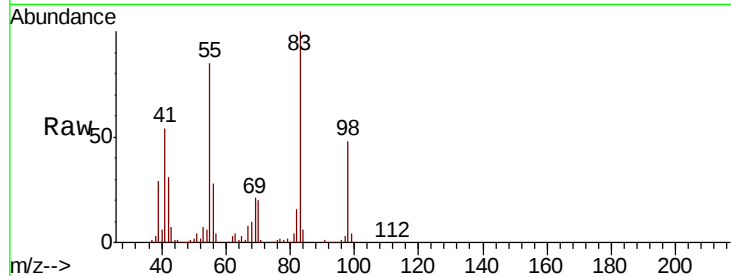




#39  
Methylcyclohexane  
Concen: 22.093 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

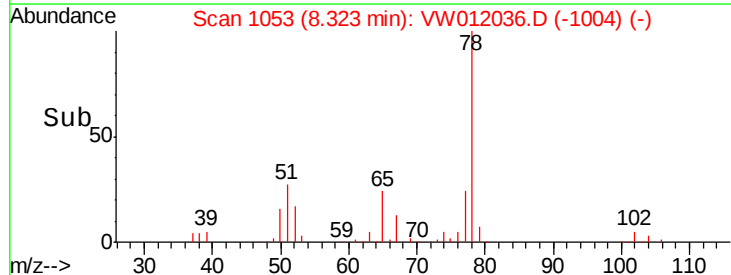
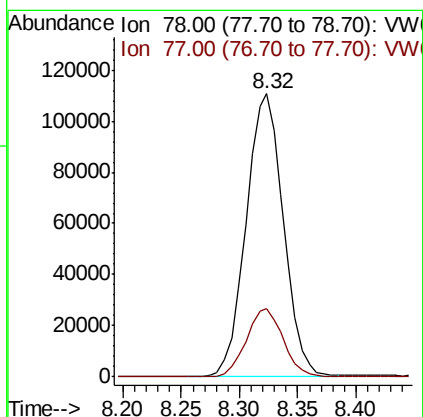
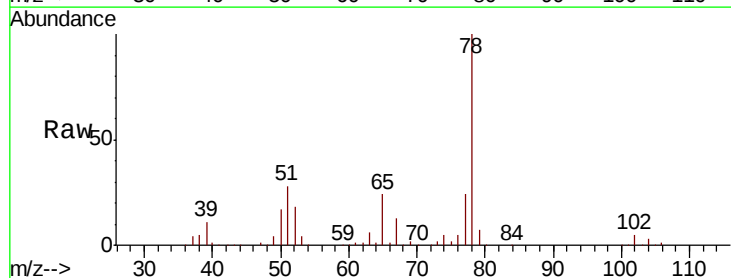
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

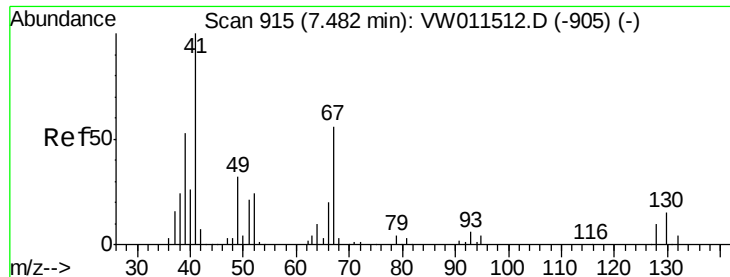
Tgt Ion: 83 Resp: 99923  
Ion Ratio Lower Upper  
83 100  
55 85.0 72.1 108.1  
98 47.6 38.6 57.8



#40  
Benzene  
Concen: 21.499 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 78 Resp: 247350  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.4 29.0





#41

Methacrylonitrile

Concen: 21.652 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

Tgt Ion: 41 Resp: 30586

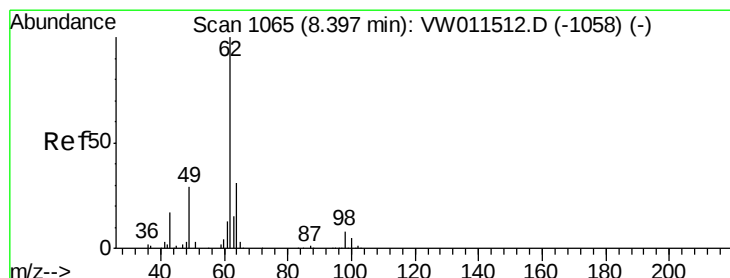
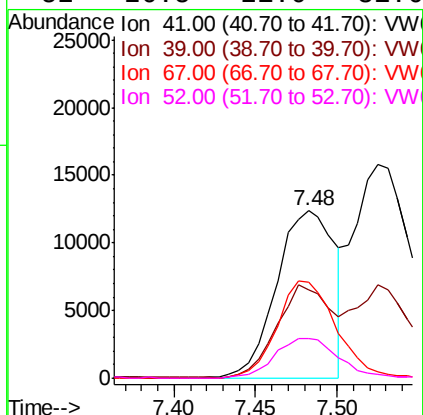
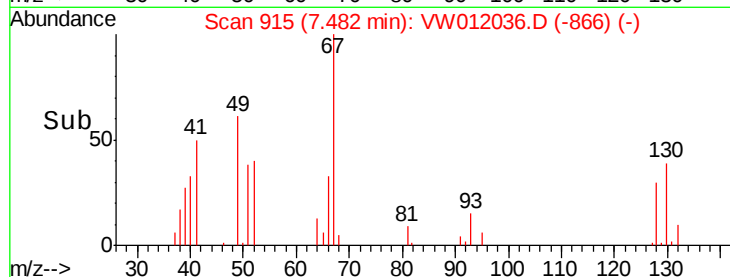
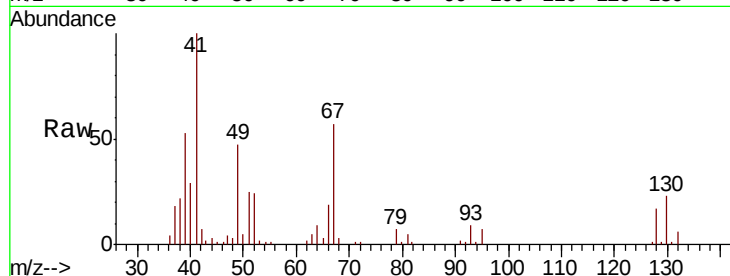
Ion Ratio Lower Upper

41 100

39 52.4 43.0 64.4

67 59.7 47.5 71.3

52 26.5 21.0 31.6



#42

1,2-Dichloroethane

Concen: 21.448 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW012036.D

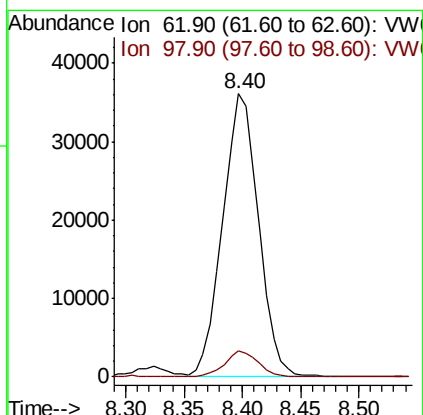
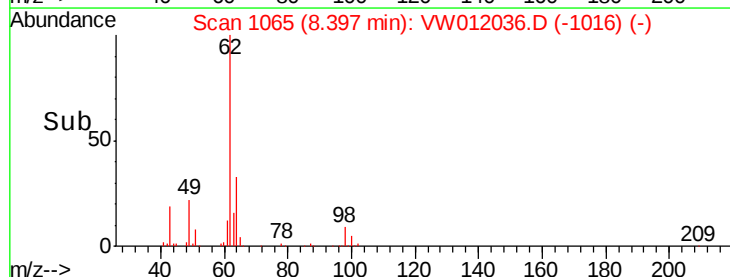
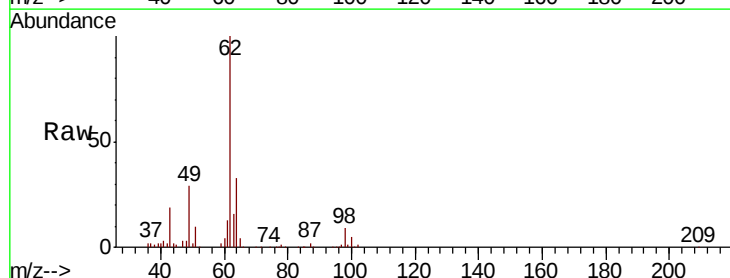
Acq: 20 Aug 2019 18:19

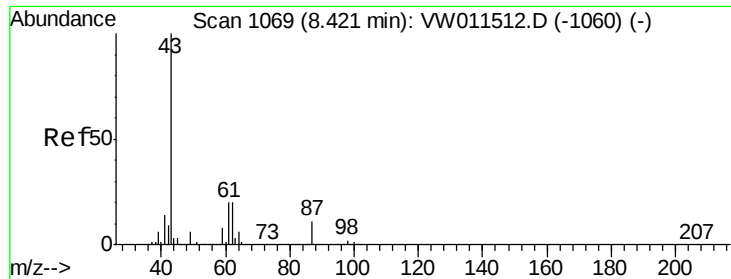
Tgt Ion: 62 Resp: 77258

Ion Ratio Lower Upper

62 100

98 8.6 0.0 16.8

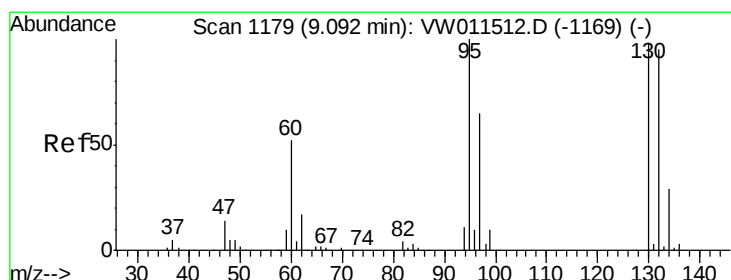
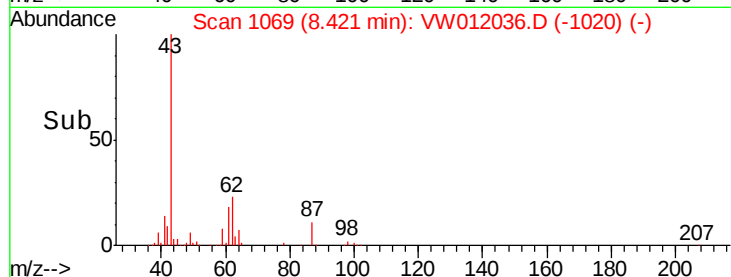
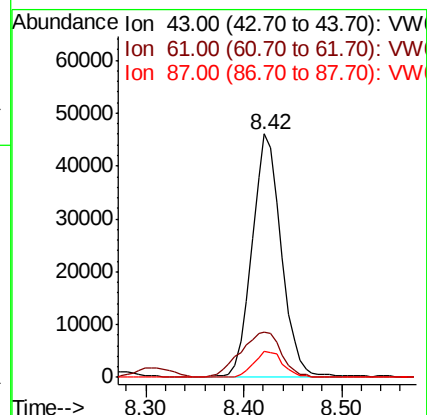
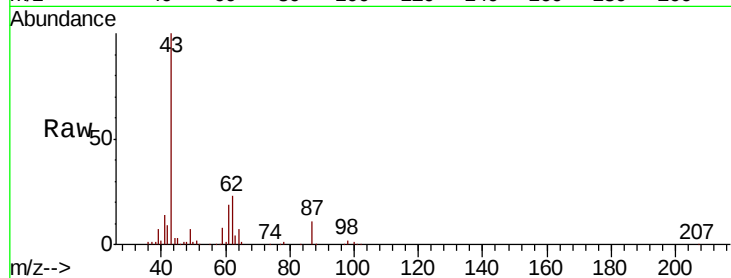




#43  
Isopropyl Acetate  
Concen: 21.785 ug/l  
RT: 8.42 min Scan# 1069  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

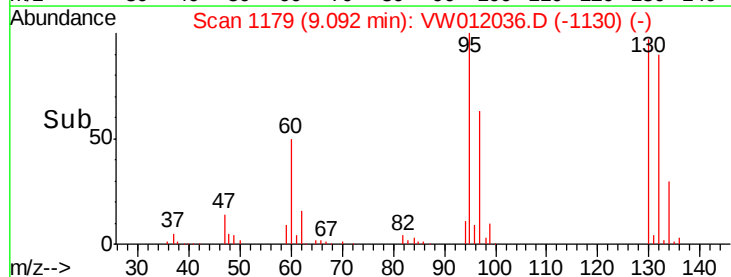
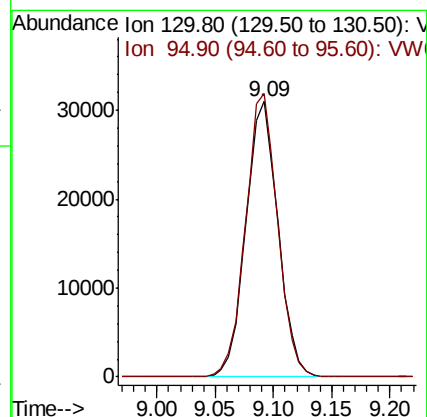
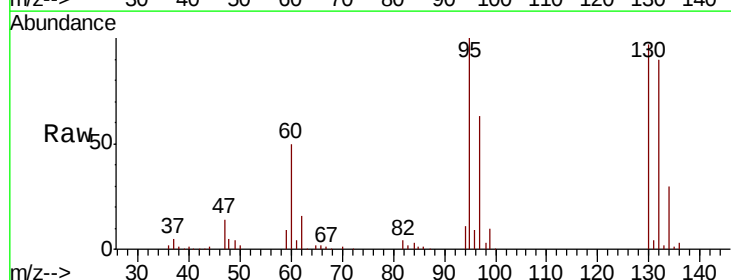
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

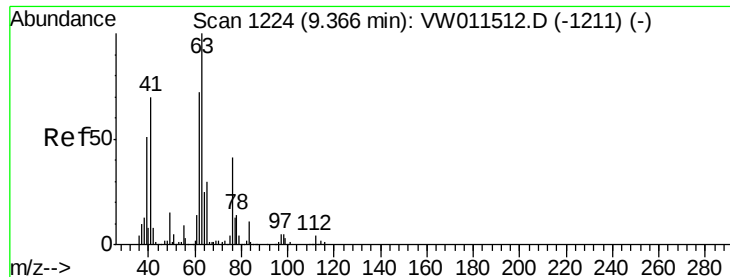
Tgt Ion: 43 Resp: 94679  
Ion Ratio Lower Upper  
43 100  
61 26.4 21.5 32.3  
87 10.9 8.4 12.6



#44  
Trichloroethene  
Concen: 21.686 ug/l  
RT: 9.09 min Scan# 1179  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 130 Resp: 59966  
Ion Ratio Lower Upper  
130 100  
95 102.7 0.0 204.8

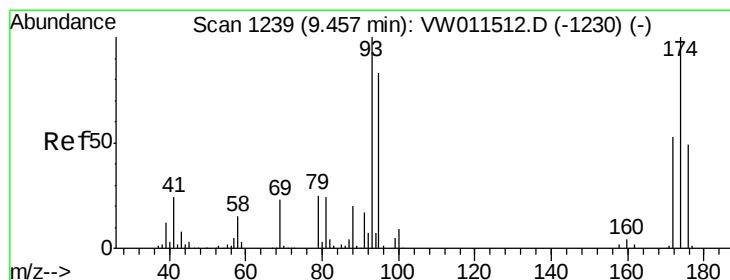
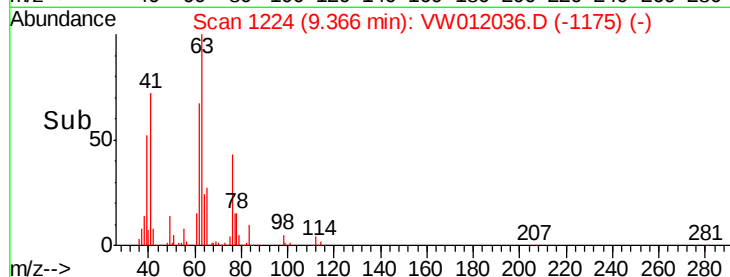
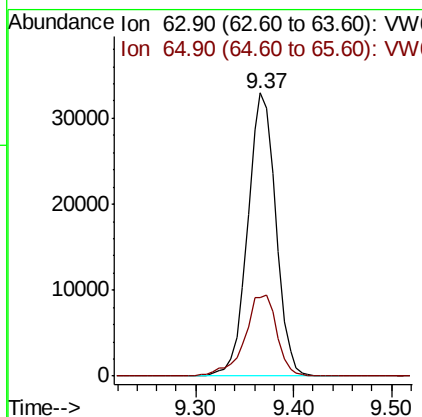
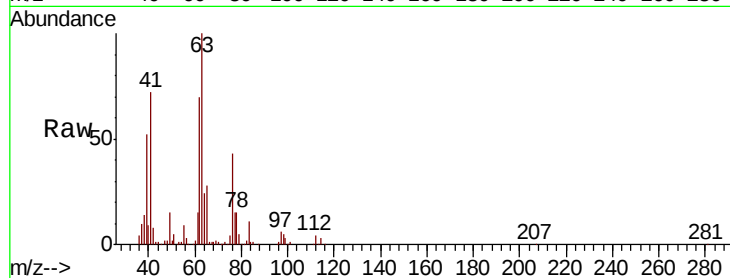




#45  
 1,2-Dichloropropane  
 Concen: 21.316 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

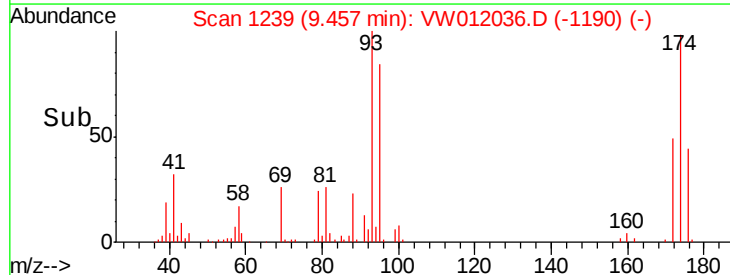
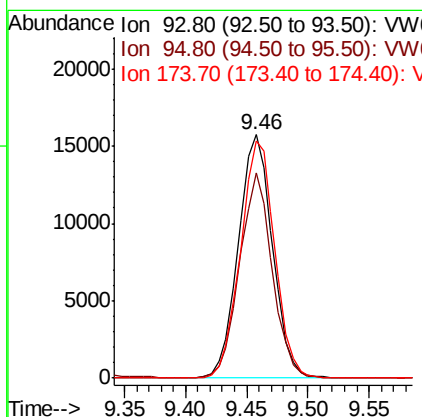
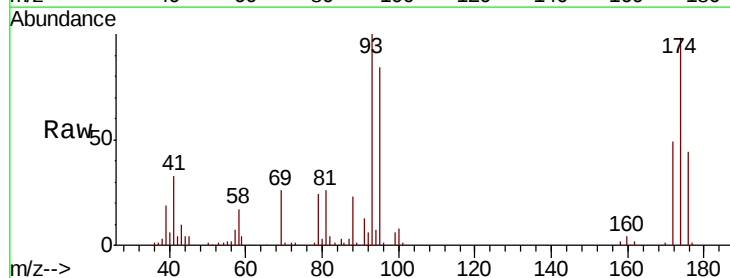
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

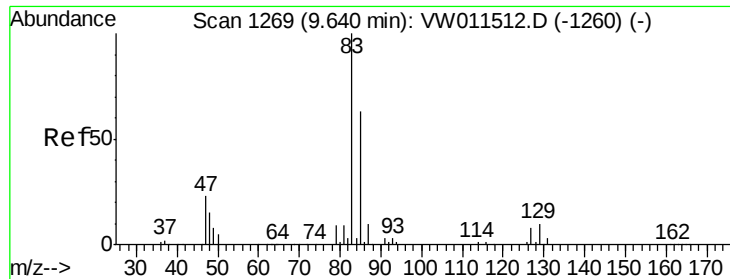
Tgt Ion: 63 Resp: 65618  
 Ion Ratio Lower Upper  
 63 100  
 65 27.8 24.2 36.4



#46  
 Dibromomethane  
 Concen: 21.641 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 93 Resp: 30407  
 Ion Ratio Lower Upper  
 93 100  
 95 80.6 66.2 99.2  
 174 97.8 78.2 117.4





#47

Bromodichloromethane

Concen: 21.085 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

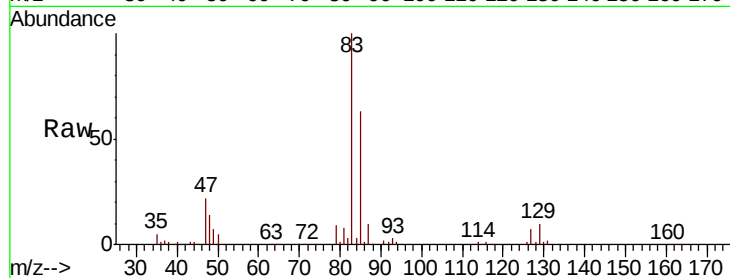
Tgt Ion: 83 Resp: 77711

Ion Ratio Lower Upper

83 100

85 62.9 50.5 75.7

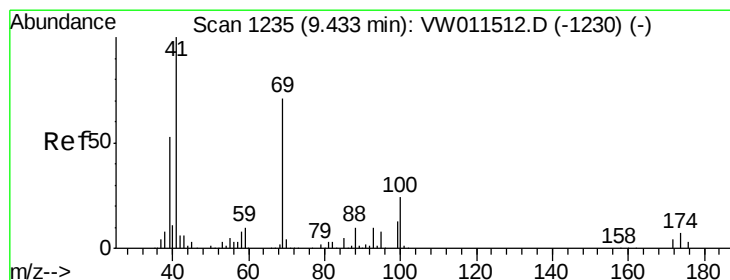
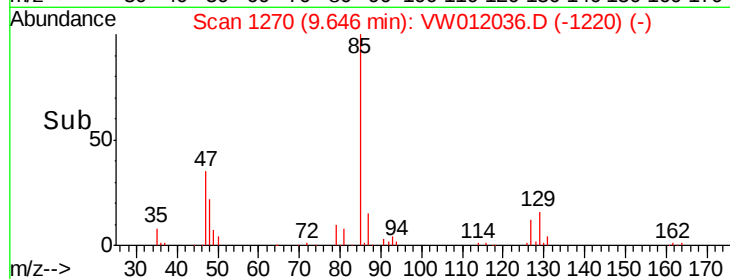
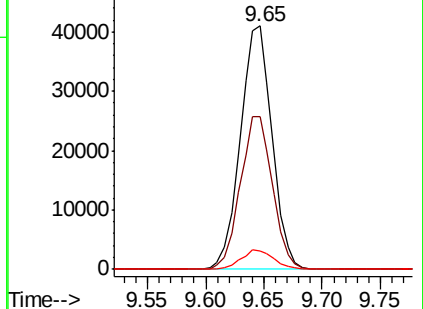
127 7.4 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 21.383 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

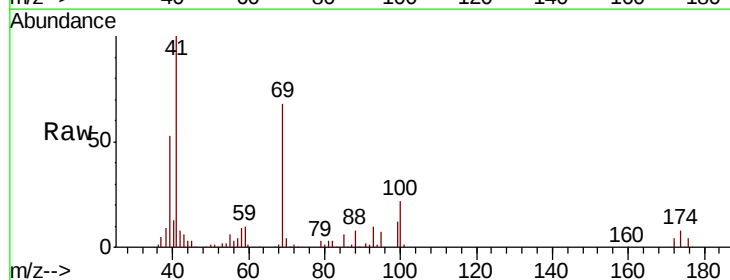
Tgt Ion: 41 Resp: 44639

Ion Ratio Lower Upper

41 100

69 72.3 57.1 85.7

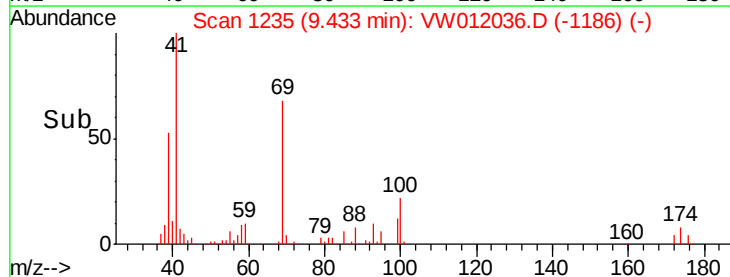
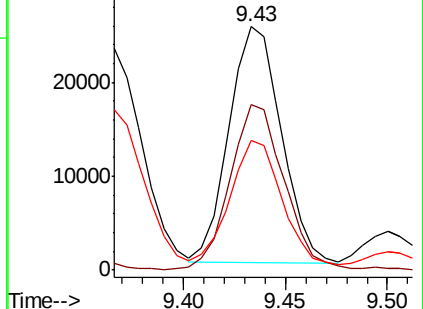
39 56.4 45.4 68.2

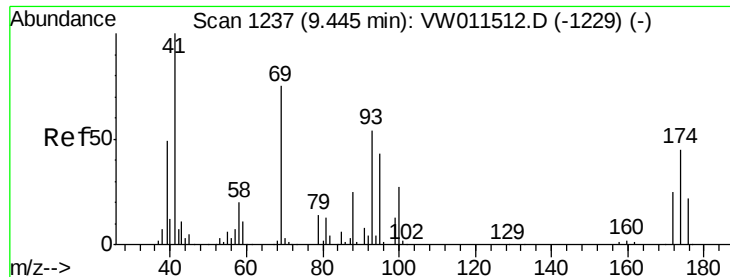


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 487.758 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

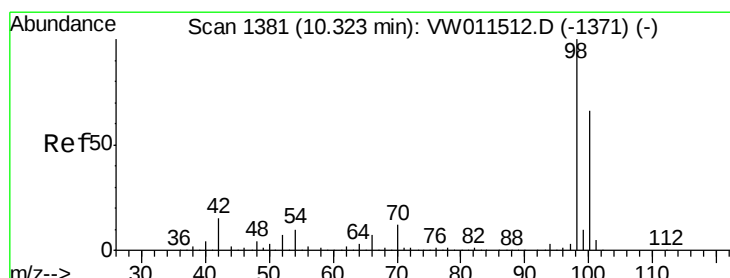
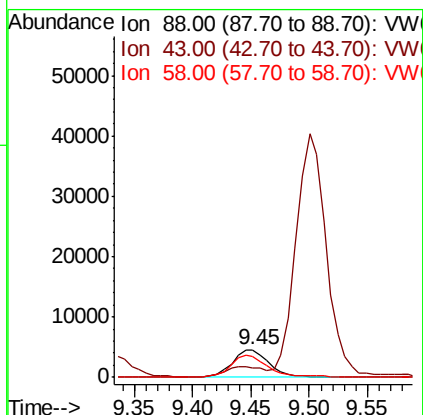
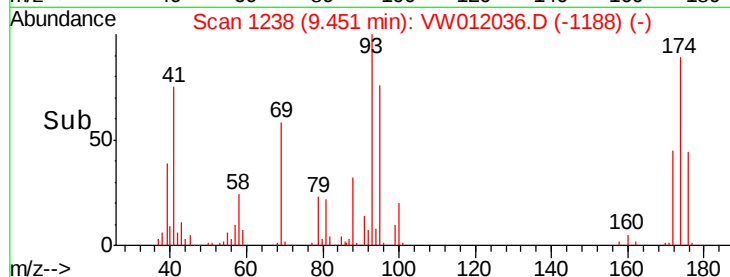
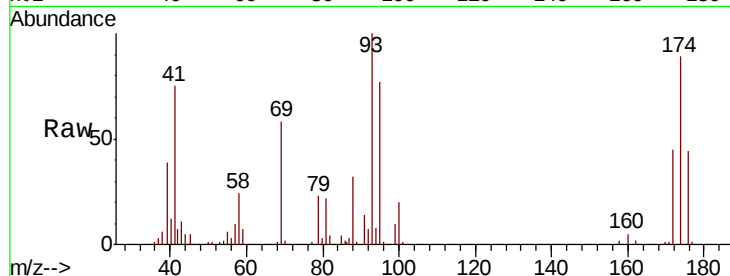
Tgt Ion: 88 Resp: 9923

Ion Ratio Lower Upper

88 100

43 37.2 34.0 51.0

58 83.9 69.7 104.5



#50

Toluene-d8

Concen: 54.539 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012036.D

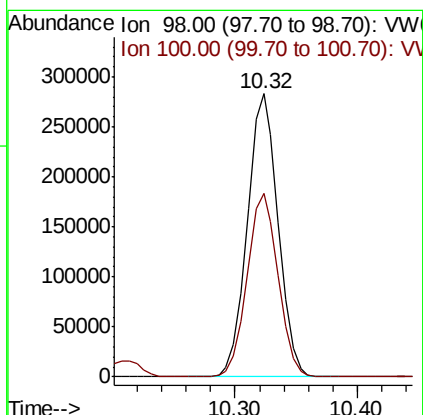
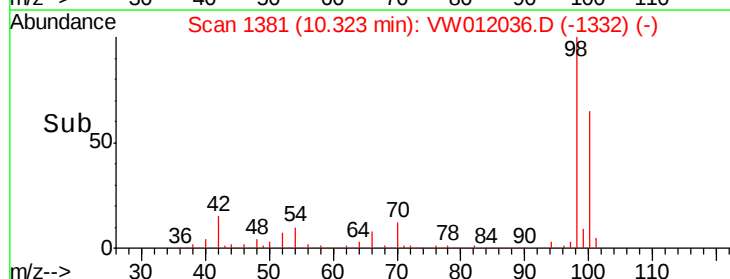
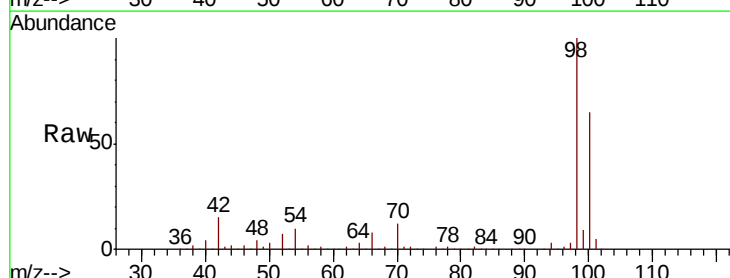
Acq: 20 Aug 2019 18:19

Tgt Ion: 98 Resp: 494855

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1

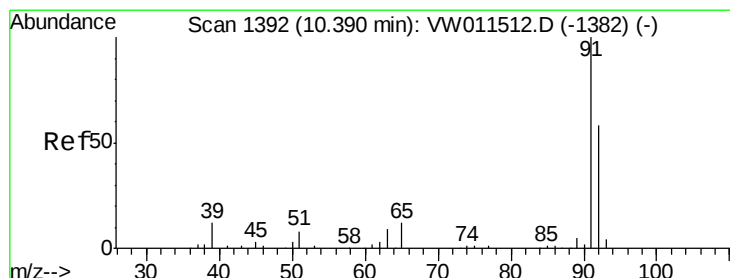
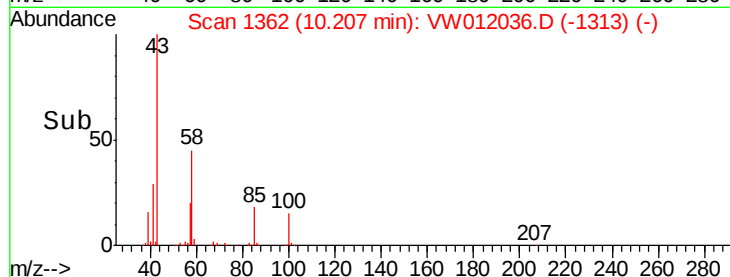
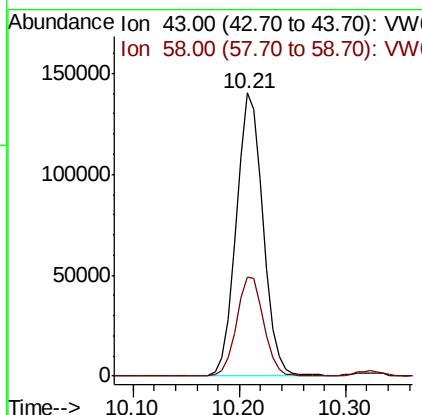
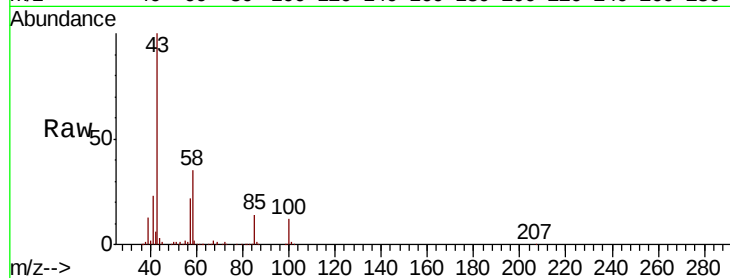




#51  
 4-Methyl-2-Pentanone  
 Concen: 109.654 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

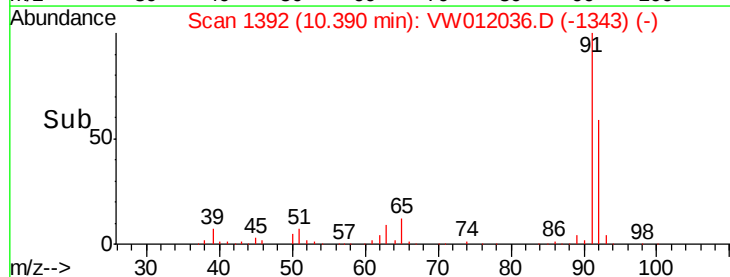
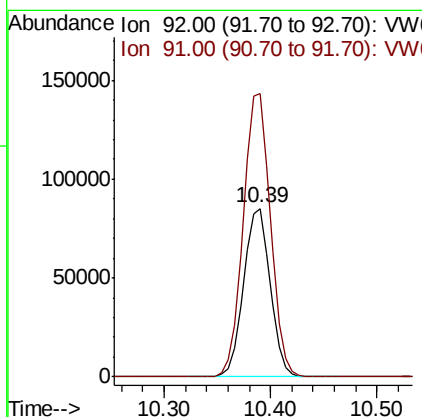
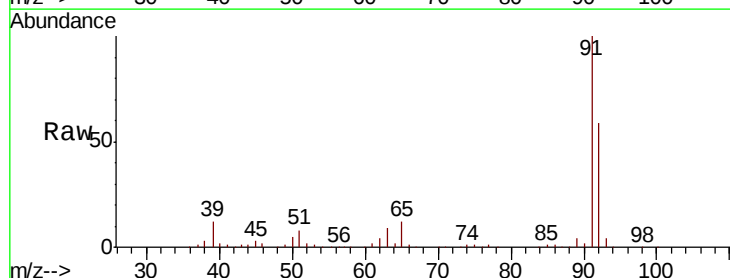
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

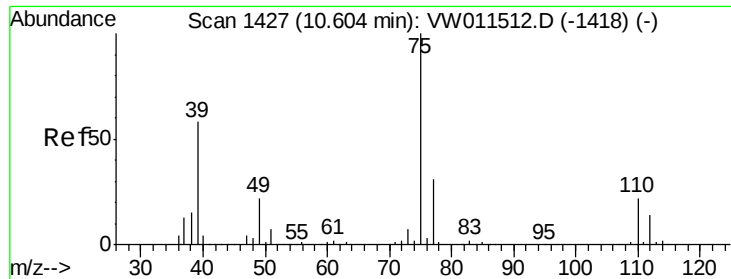
Tgt Ion: 43 Resp: 247878  
 Ion Ratio Lower Upper  
 43 100  
 58 35.5 28.2 42.2



#52  
 Toluene  
 Concen: 21.546 ug/l  
 RT: 10.39 min Scan# 1392  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 92 Resp: 149703  
 Ion Ratio Lower Upper  
 92 100  
 91 171.8 136.7 205.1

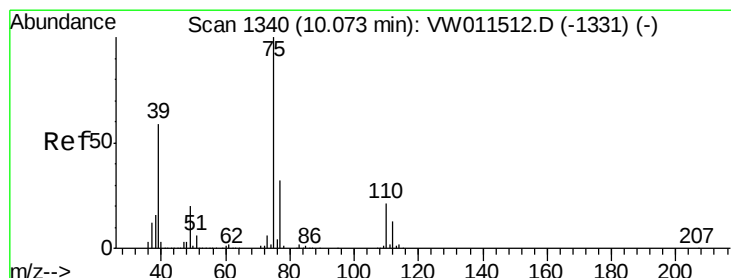
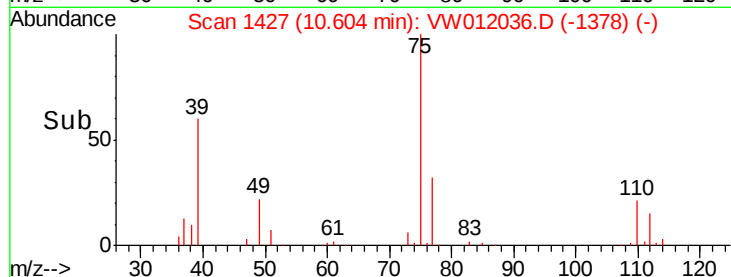
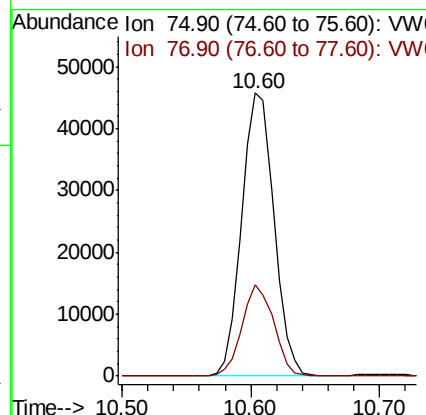
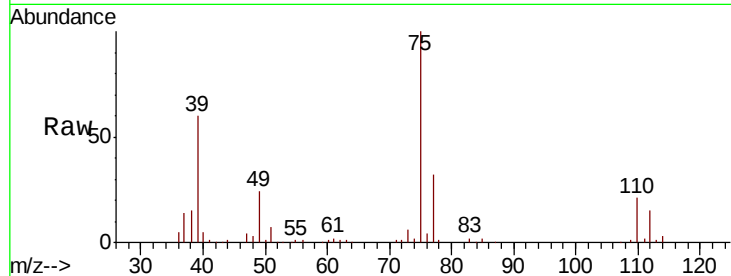




#53  
 t-1,3-Dichloropropene  
 Concen: 20.682 ug/l  
 RT: 10.60 min Scan# 1427  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

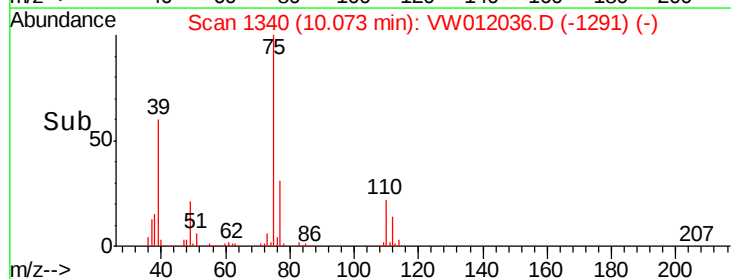
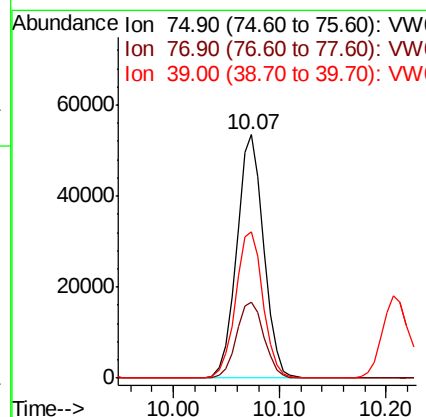
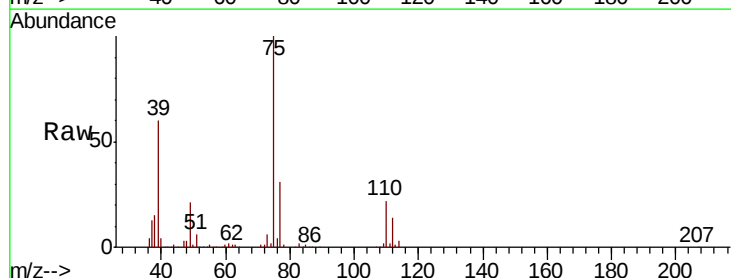
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

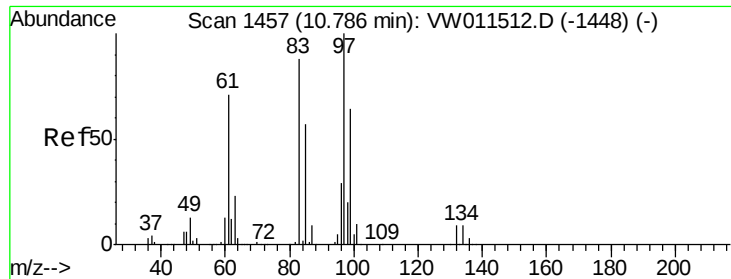
Tgt Ion: 75 Resp: 79625  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 25.0 37.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 20.655 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 75 Resp: 94554  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 25.6 38.4  
 39 59.8 47.0 70.4

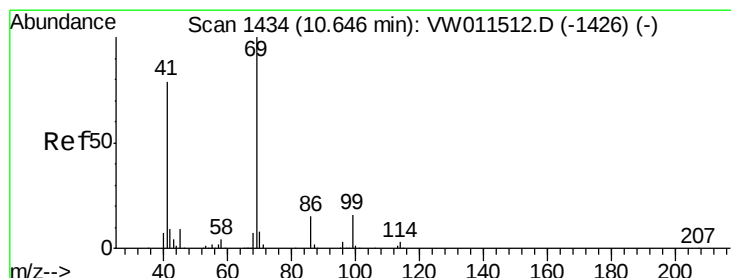
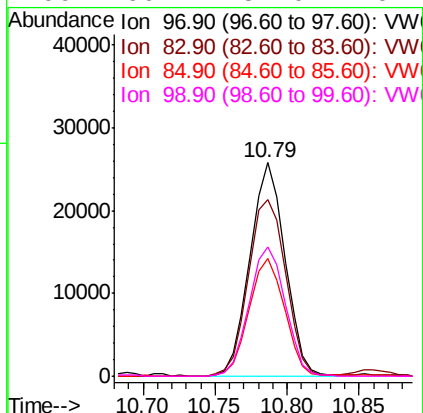
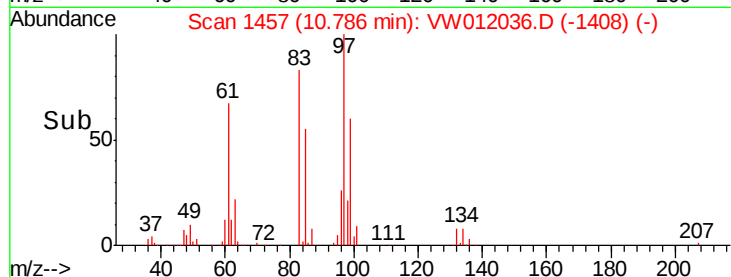
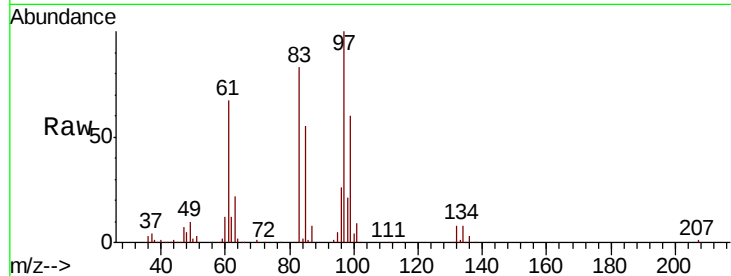




#55  
 1,1,2-Trichloroethane  
 Concen: 21.847 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

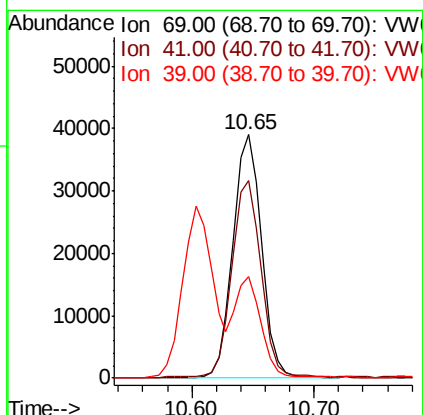
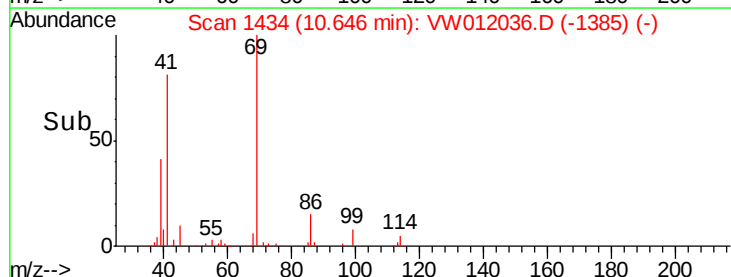
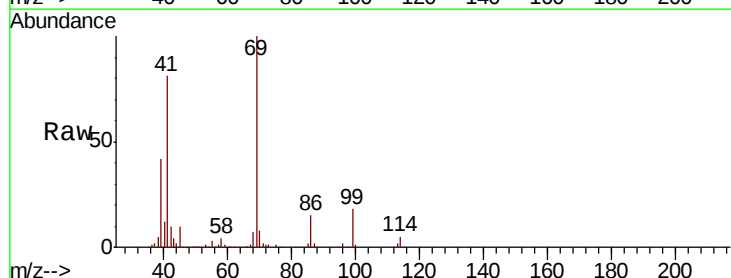
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

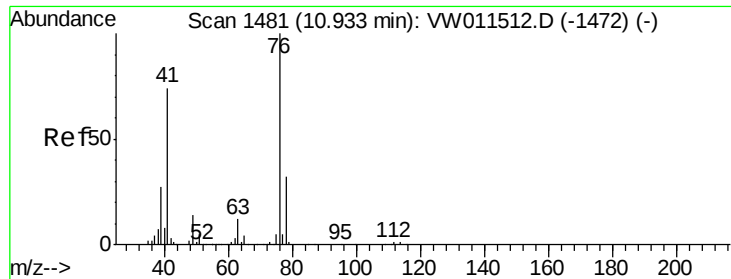
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 43553 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.9  | 70.5  | 105.7 |
| 85       | 54.9  | 45.8  | 68.6  |
| 99       | 60.4  | 51.0  | 76.4  |



#56  
 Ethyl methacrylate  
 Concen: 21.700 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 63302 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 83.1  | 66.6  | 99.8  |
| 39       | 37.4  | 30.3  | 45.5  |

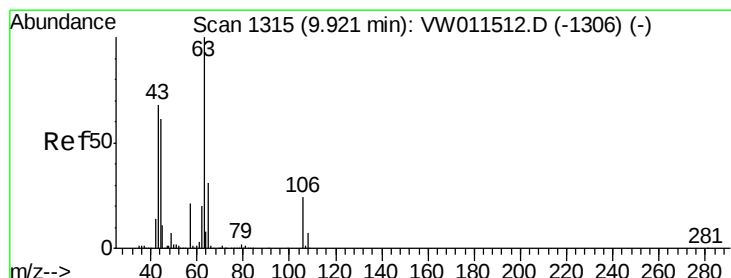
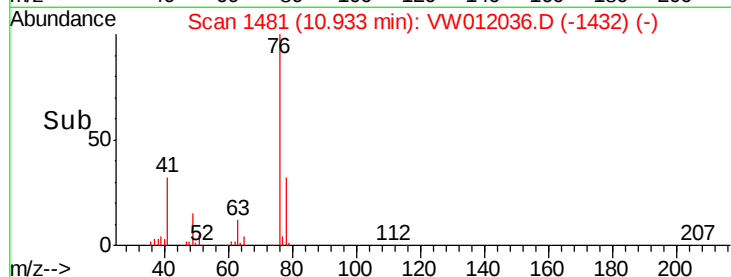
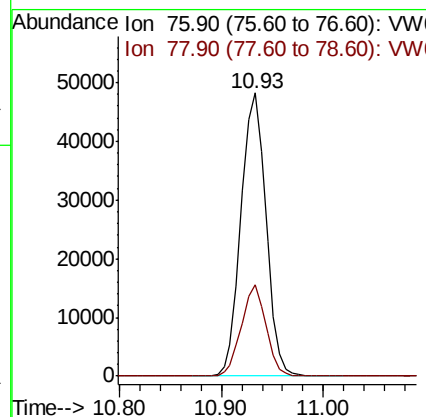
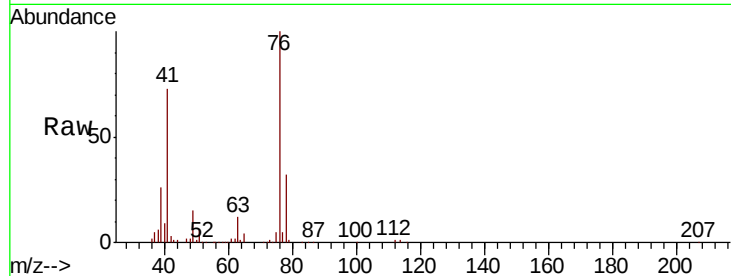




#57  
 1,3-Dichloropropane  
 Concen: 21.698 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

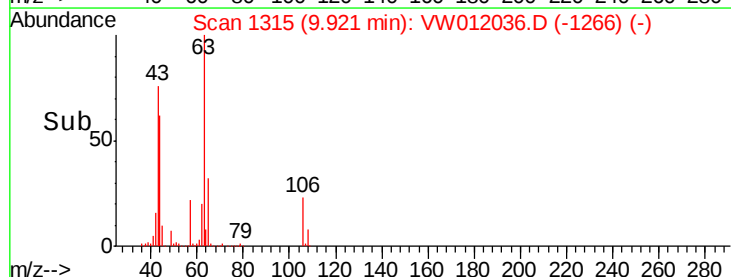
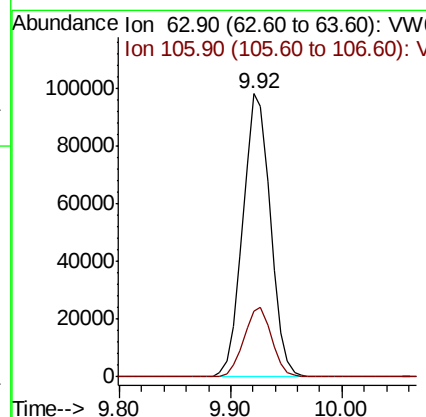
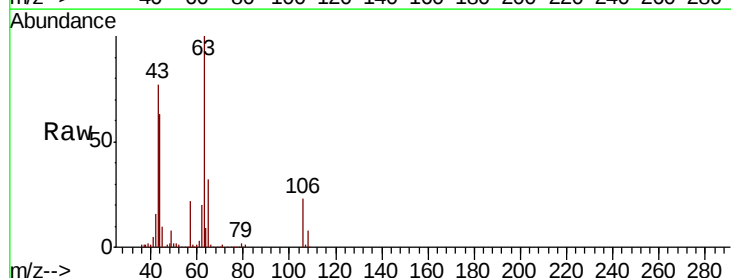
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

Tgt Ion: 76 Resp: 81837  
 Ion Ratio Lower Upper  
 76 100  
 78 31.7 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 127.657 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 63 Resp: 169084  
 Ion Ratio Lower Upper  
 63 100  
 106 24.8 19.7 29.5

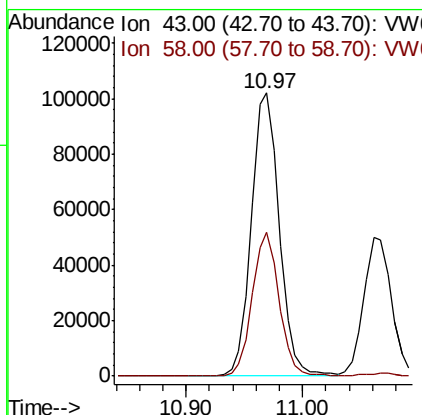
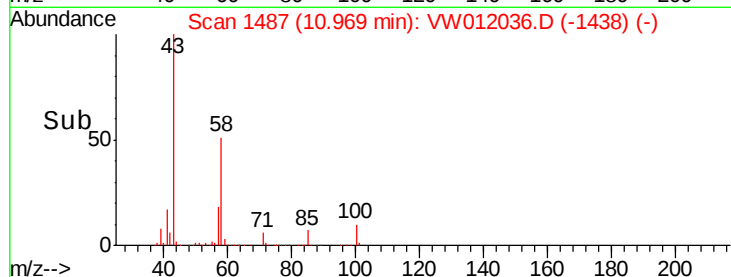
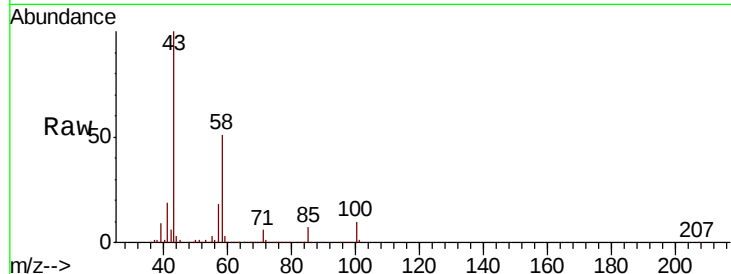




#59  
2-Hexanone  
Concen: 106.804 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

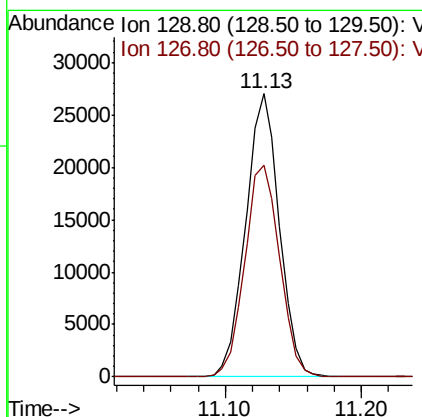
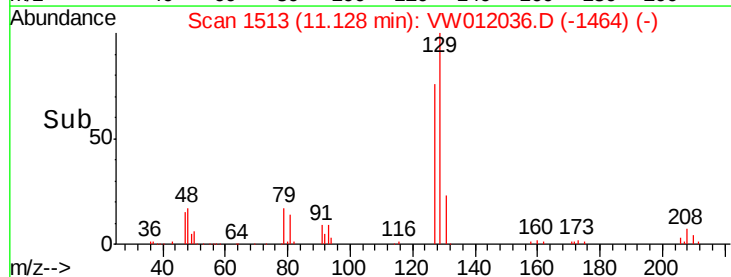
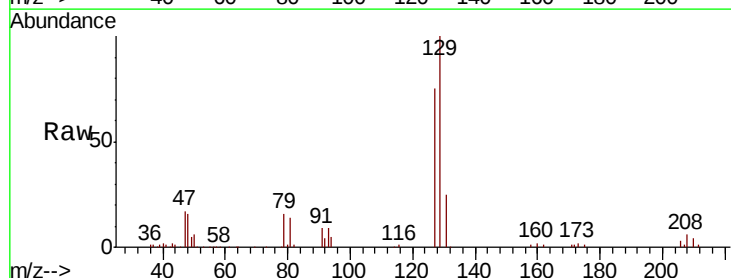
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion: 43 Resp: 170469  
Ion Ratio Lower Upper  
43 100  
58 49.2 24.3 72.9



#60  
Dibromochloromethane  
Concen: 21.179 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 129 Resp: 46866  
Ion Ratio Lower Upper  
129 100  
127 77.3 38.9 116.7

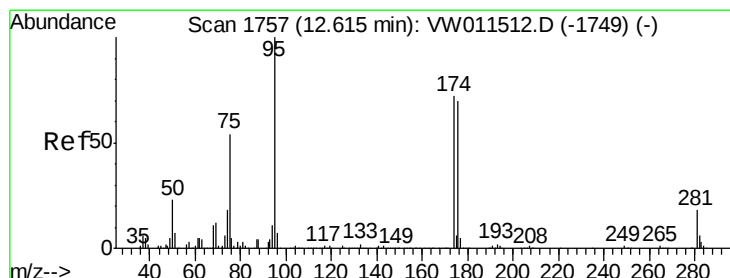
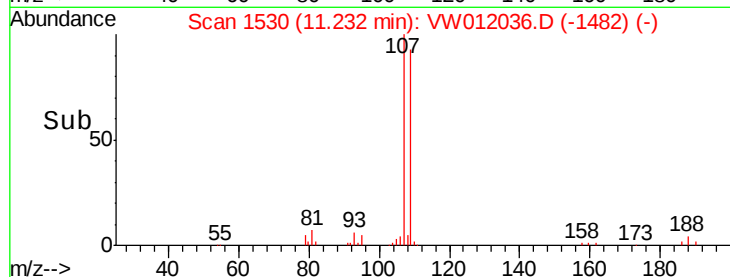
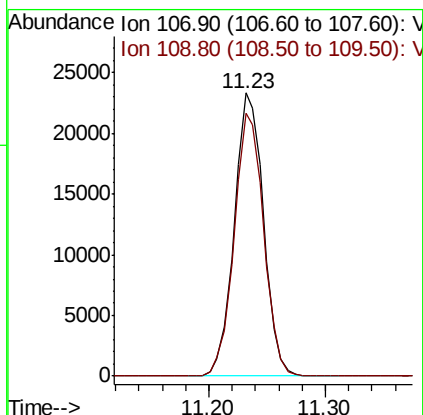
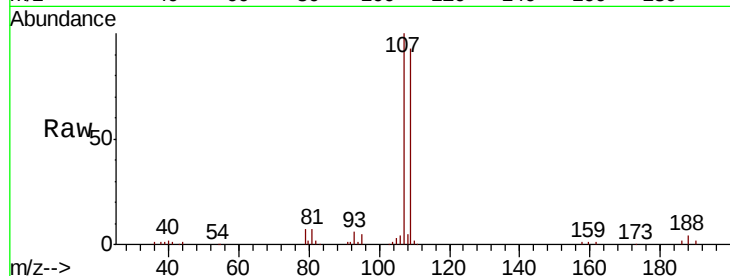




#61  
 1,2-Dibromoethane  
 Concen: 21.573 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.01 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

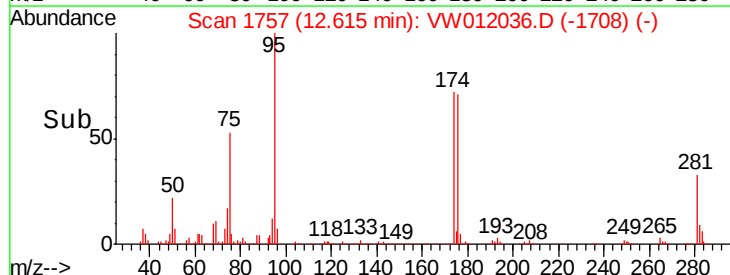
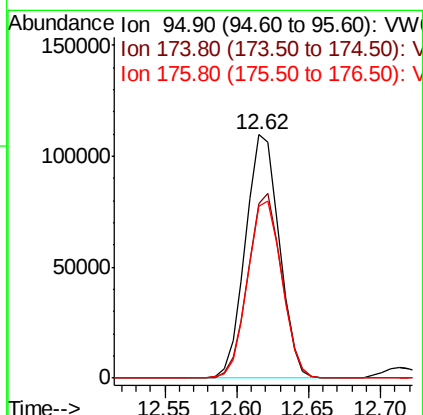
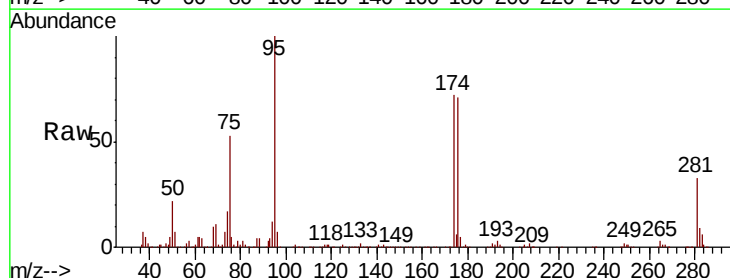
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

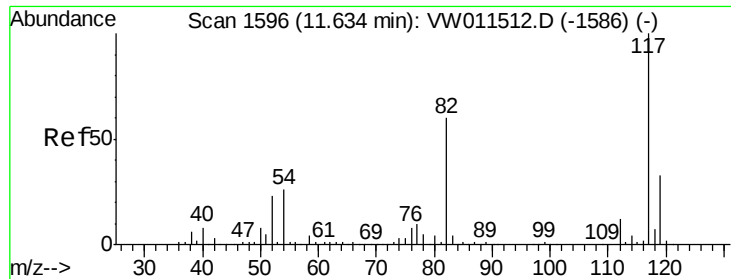
Tgt Ion: 107 Resp: 40698  
 Ion Ratio Lower Upper  
 107 100  
 109 93.9 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 55.141 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 95 Resp: 178373  
 Ion Ratio Lower Upper  
 95 100  
 174 75.3 0.0 150.2  
 176 73.7 0.0 144.4

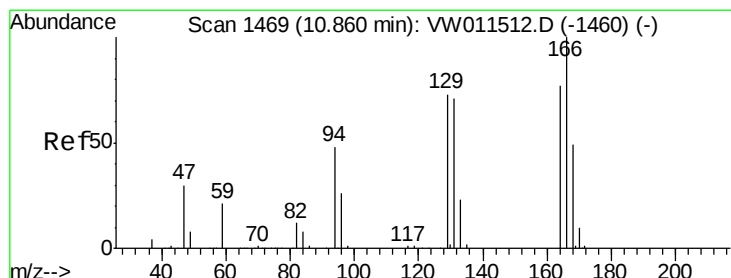
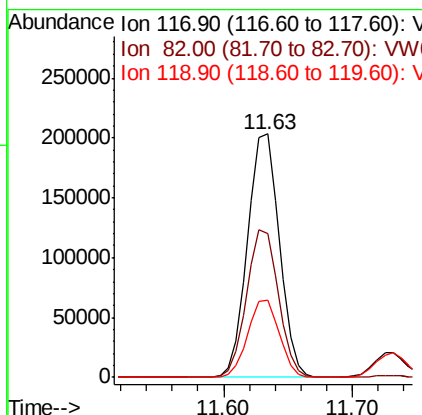
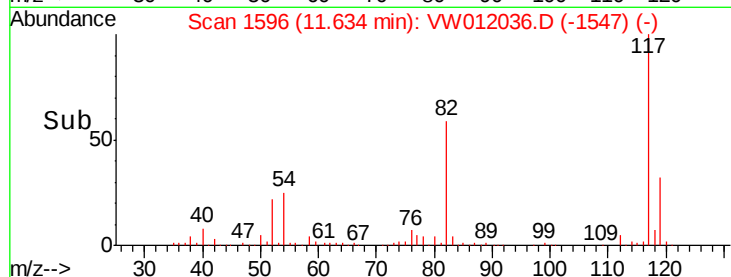
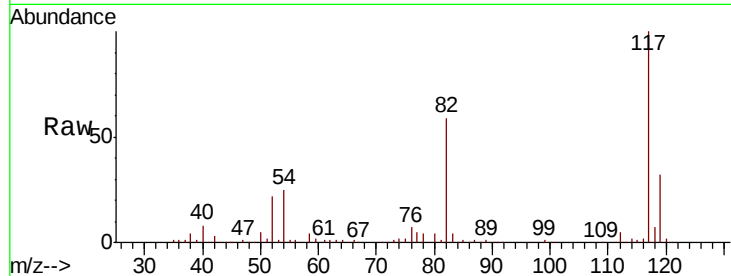




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

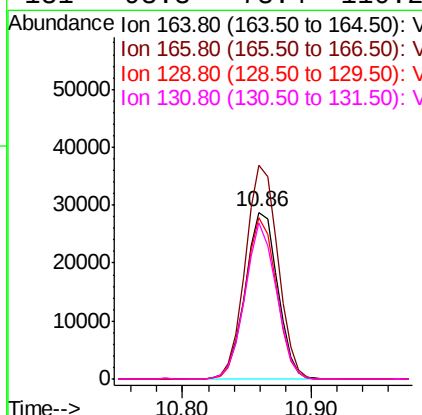
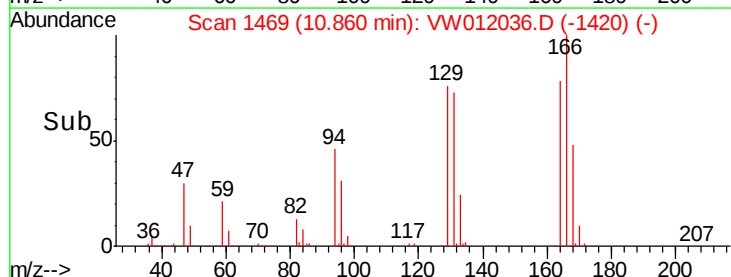
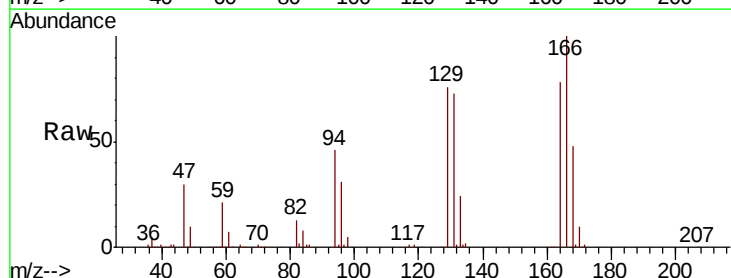
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion:117 Resp: 347215  
Ion Ratio Lower Upper  
117 100  
82 58.8 47.9 71.9  
119 31.9 26.2 39.2



#64  
Tetrachloroethene  
Concen: 22.031 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion:164 Resp: 49806  
Ion Ratio Lower Upper  
164 100  
166 127.9 103.5 155.3  
129 96.7 75.2 112.8  
131 93.3 73.4 110.2

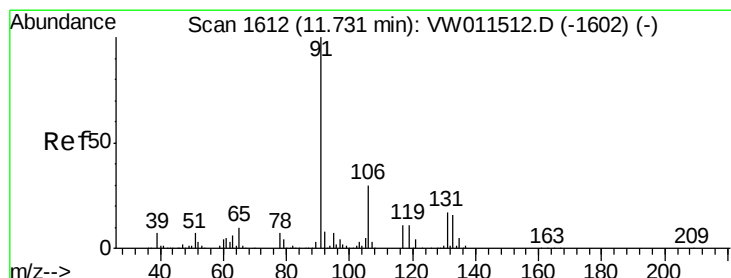
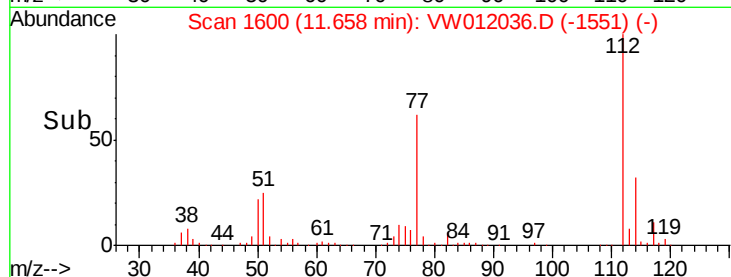
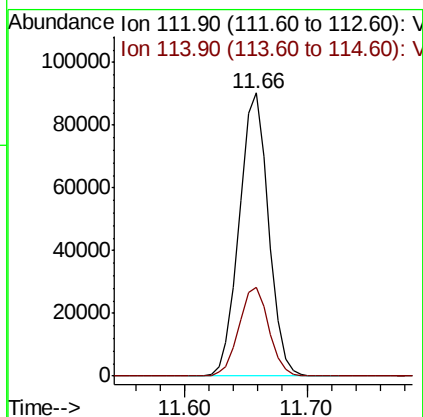
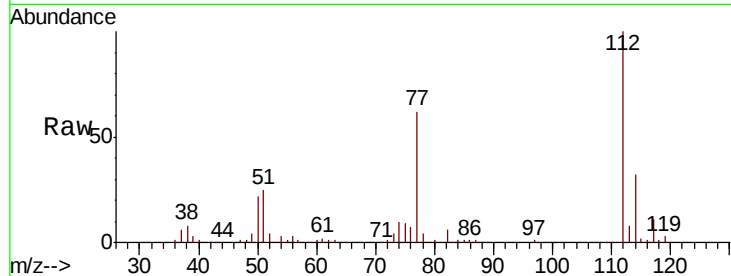




#65  
Chlorobenzene  
Concen: 21.447 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

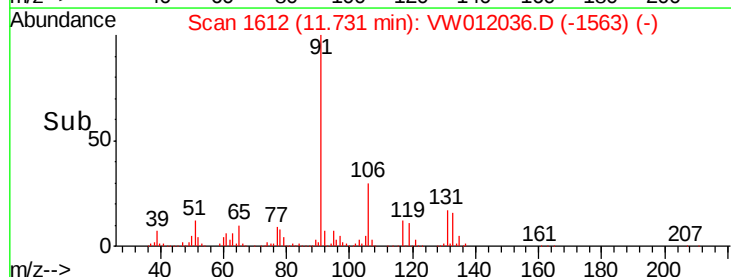
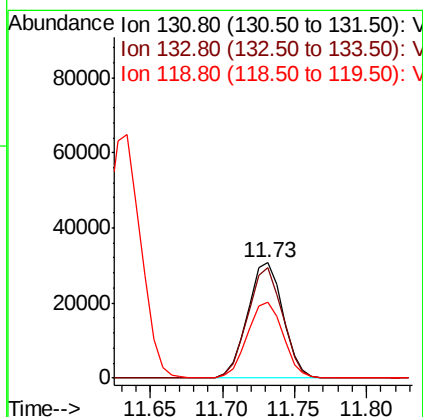
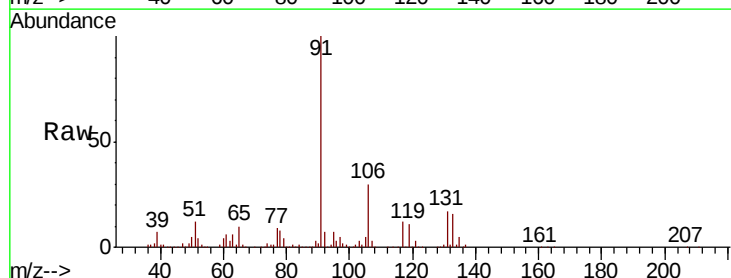
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

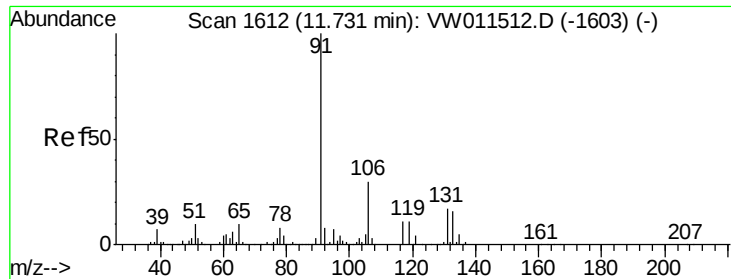
Tgt Ion:112 Resp: 149713  
Ion Ratio Lower Upper  
112 100  
114 31.6 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 21.588 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion:131 Resp: 52491  
Ion Ratio Lower Upper  
131 100  
133 94.6 47.4 142.2  
119 66.0 32.3 96.9

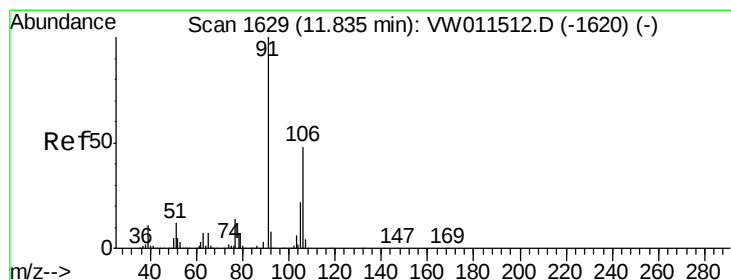
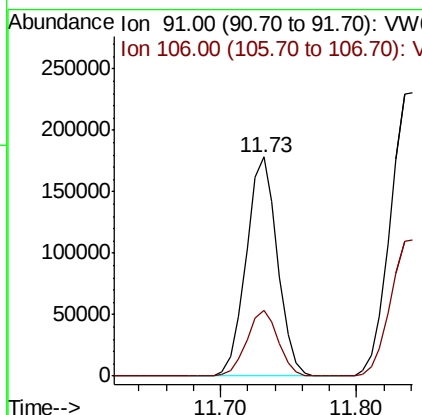
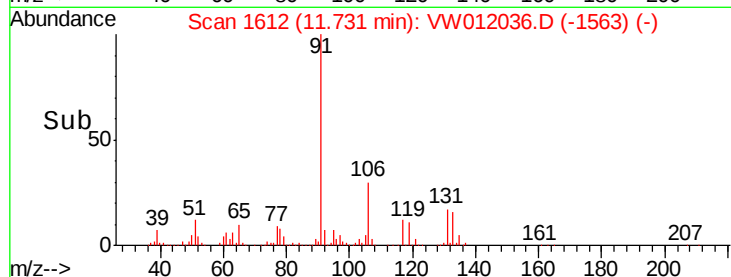
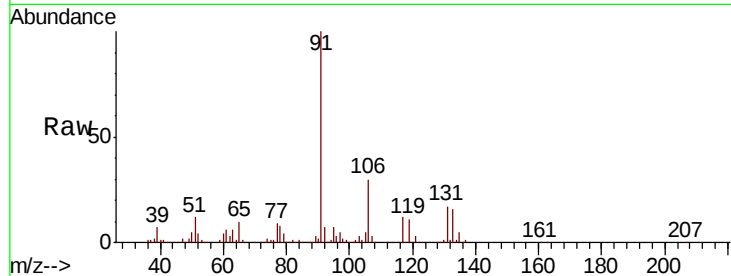




#67  
Ethyl Benzene  
Concen: 21.581 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

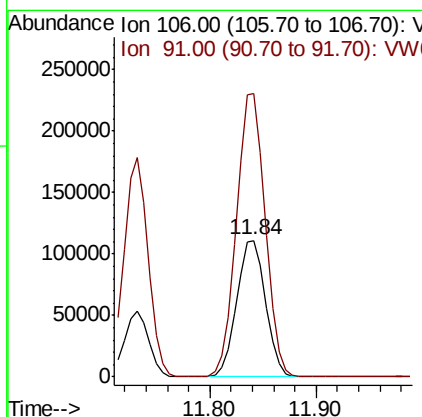
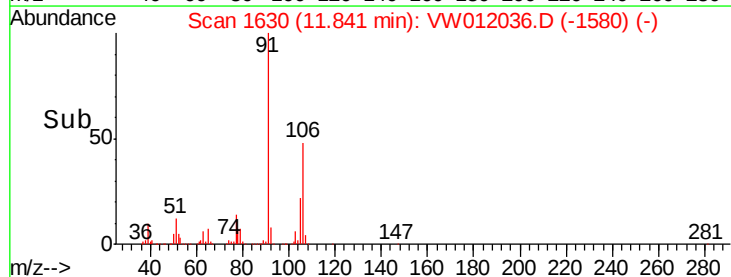
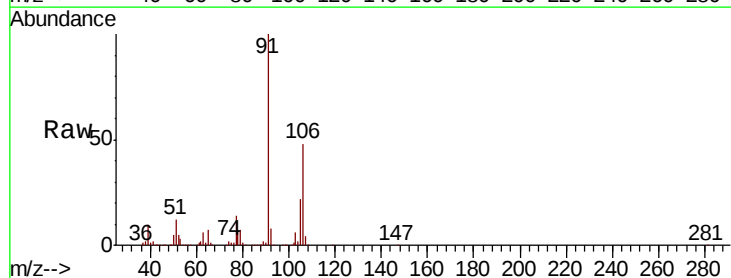
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion: 91 Resp: 286914  
Ion Ratio Lower Upper  
91 100  
106 29.9 23.8 35.6



#68  
m/p-Xylenes  
Concen: 43.729 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 106 Resp: 211427  
Ion Ratio Lower Upper  
106 100  
91 207.3 168.2 252.2

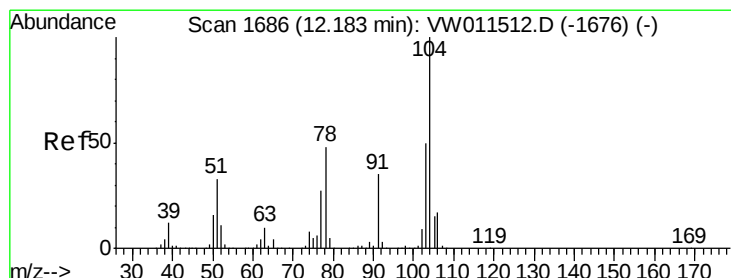
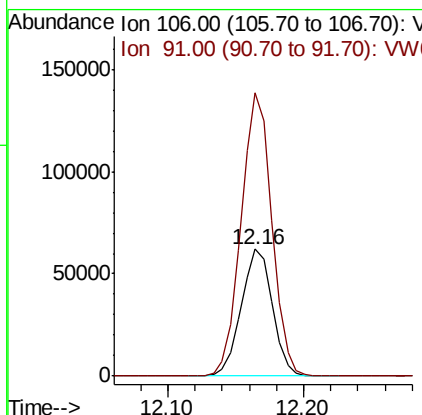
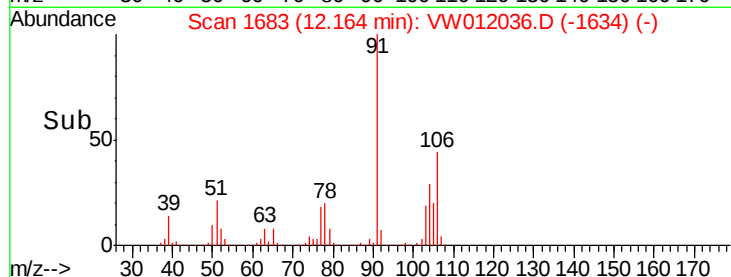
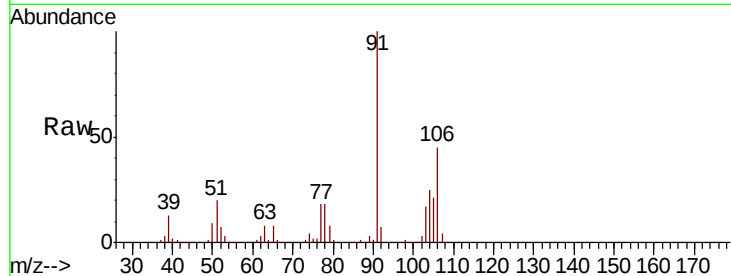




#69  
o-Xylene  
Concen: 22.099 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

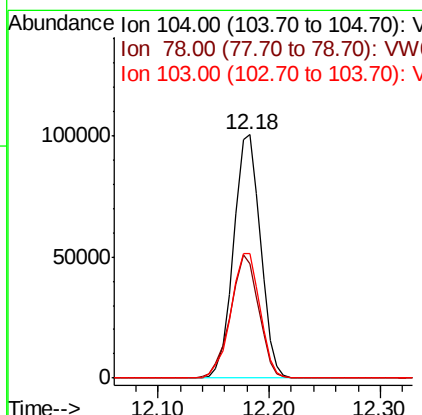
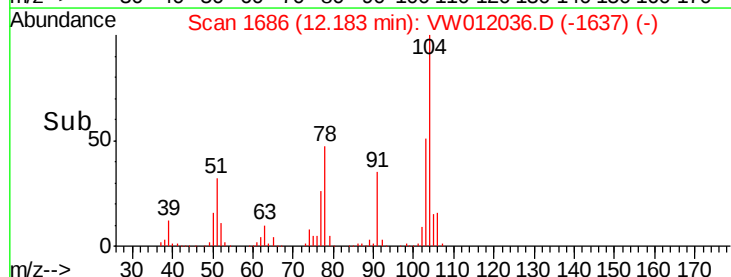
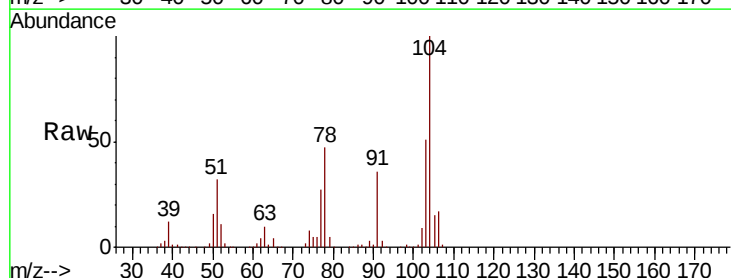
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

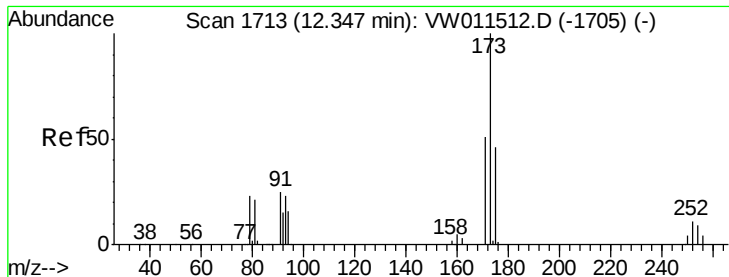
Tgt Ion:106 Resp: 99288  
Ion Ratio Lower Upper  
106 100  
91 220.3 110.5 331.5



#70  
Styrene  
Concen: 21.694 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion:104 Resp: 168524  
Ion Ratio Lower Upper  
104 100  
78 53.0 43.4 65.0  
103 55.3 43.9 65.9





#71

Bromoform

Concen: 21.309 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

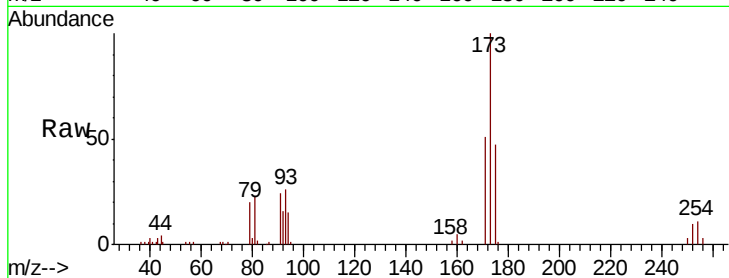
Tgt Ion:173 Resp: 26418

Ion Ratio Lower Upper

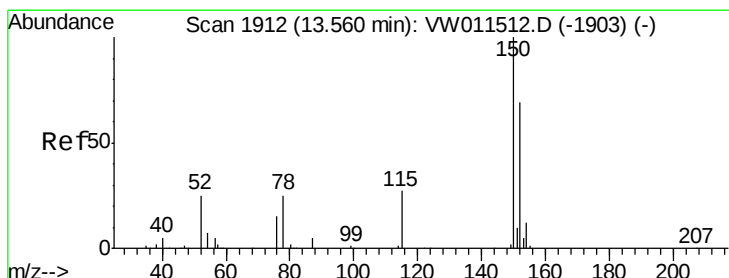
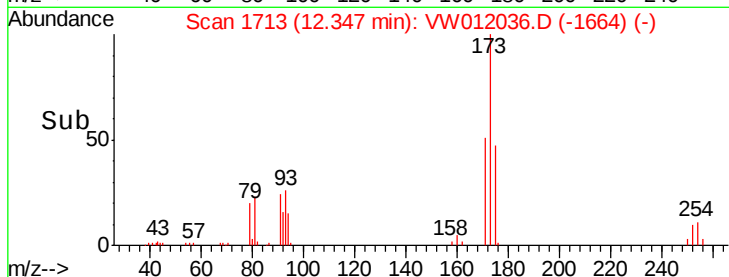
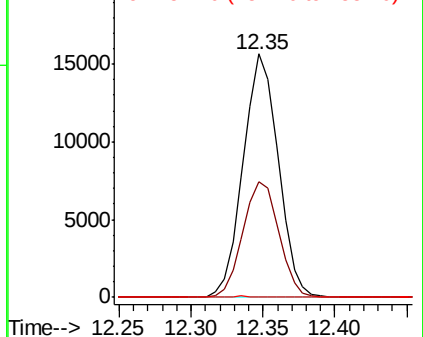
173 100

175 48.8 23.6 71.0

254 0.1 0.1 0.1



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

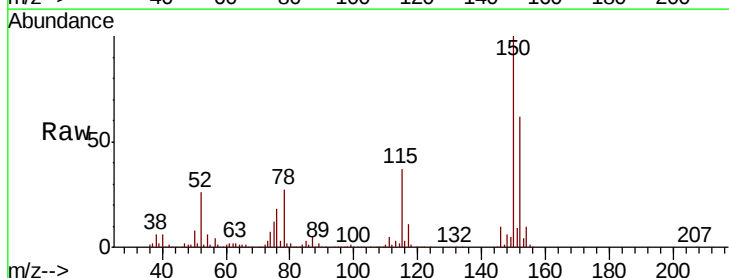
Tgt Ion:152 Resp: 165963

Ion Ratio Lower Upper

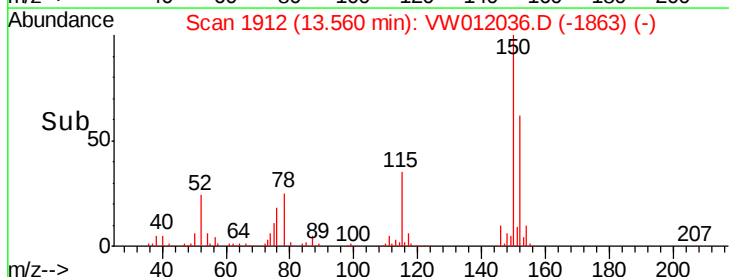
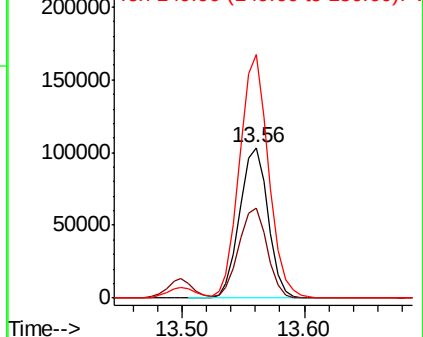
152 100

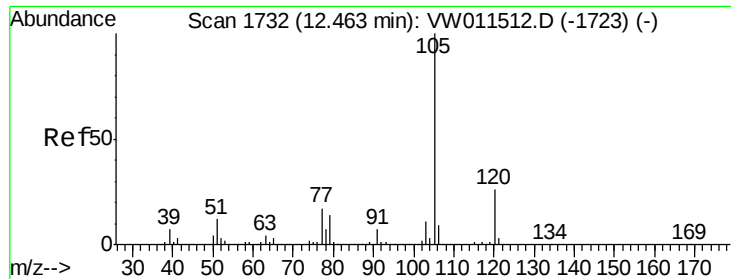
115 60.2 30.5 91.5

150 165.2 0.0 352.6



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





#73

Isopropylbenzene

Concen: 22.113 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

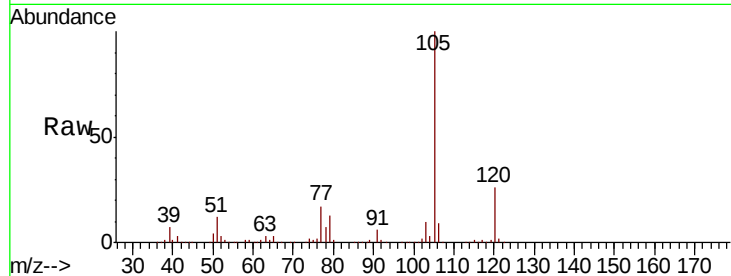
VW0820SBS02

Tgt Ion:105 Resp: 273789

Ion Ratio Lower Upper

105 100

120 25.8 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

50000

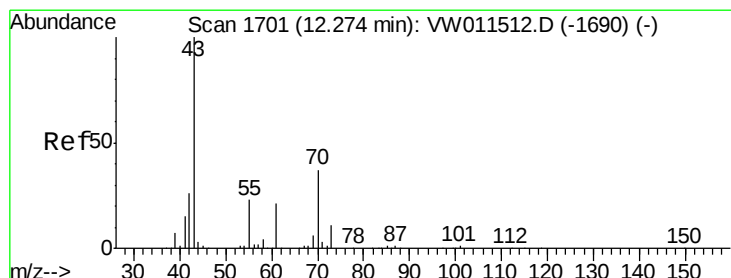
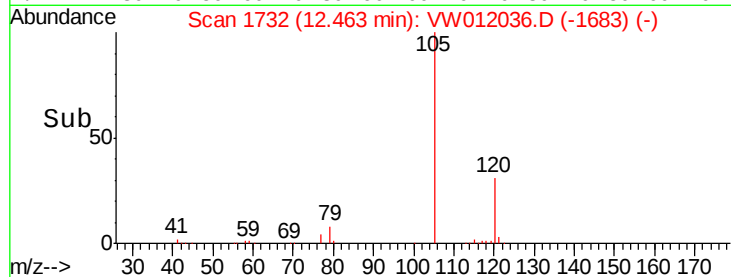
0

12.46

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 22.662 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Tgt Ion: 43 Resp: 87845

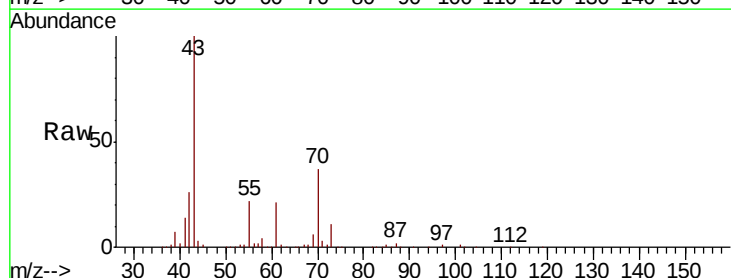
Ion Ratio Lower Upper

43 100

70 35.9 28.6 43.0

55 23.3 17.8 26.8

61 21.3 17.0 25.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

80000

60000

40000

20000

0

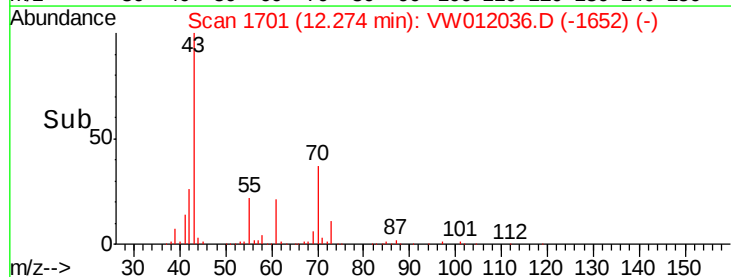
12.27

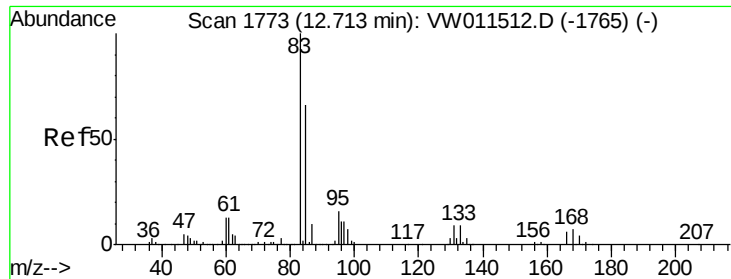
12.20

12.30

12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.850 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

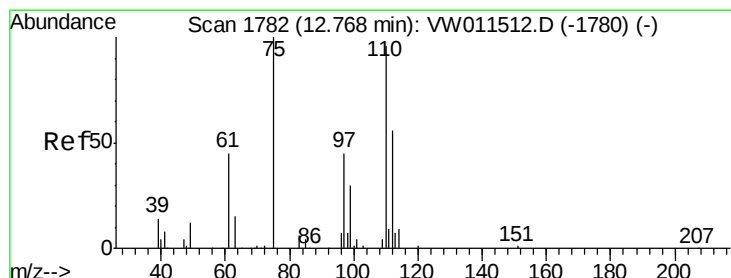
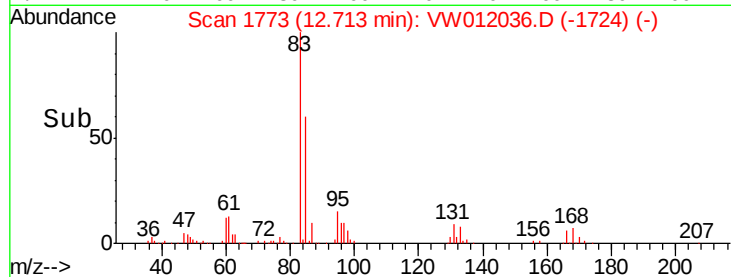
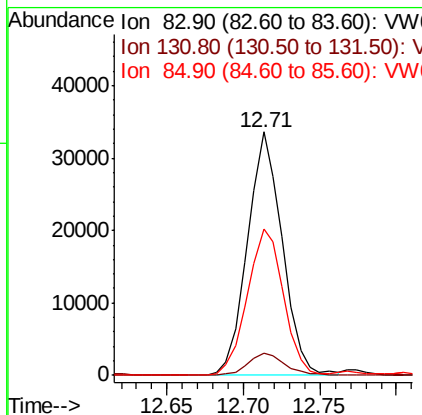
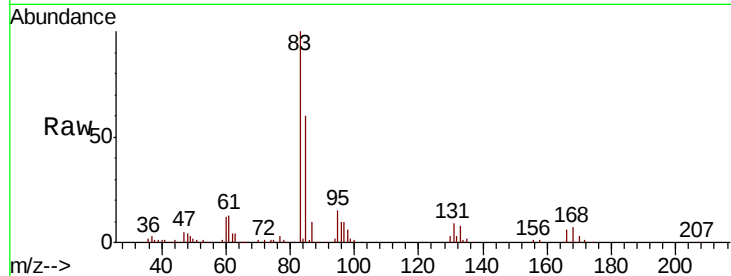
Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 53215 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 9.8   | 4.9   | 14.6  |
| 85       | 62.4  | 31.8  | 95.4  |



#76

1,2,3-Trichloropropane

Concen: 39.212 ug/l

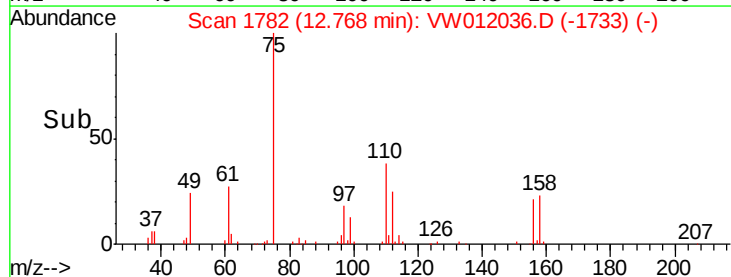
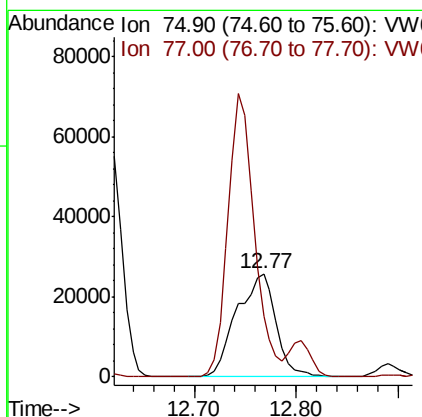
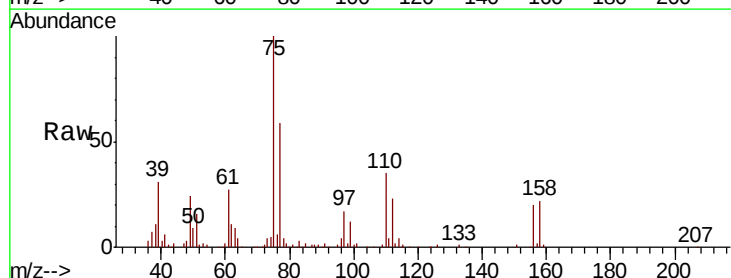
RT: 12.77 min Scan# 1782

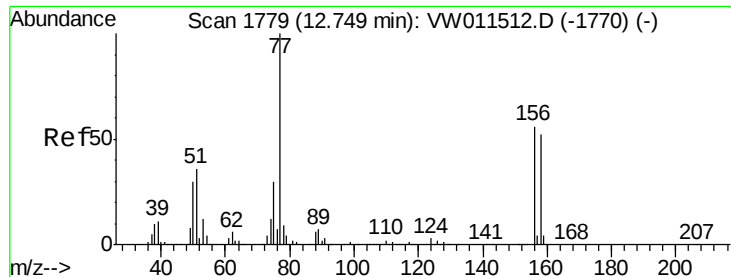
Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 68859 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 0.0   |

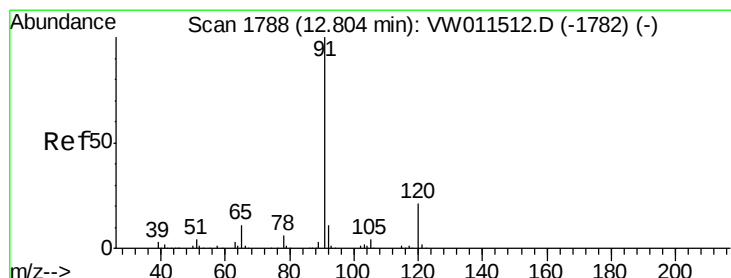
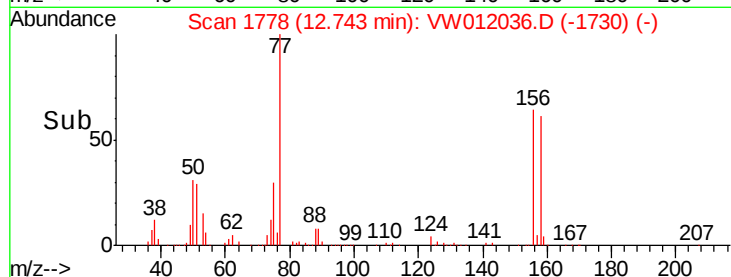
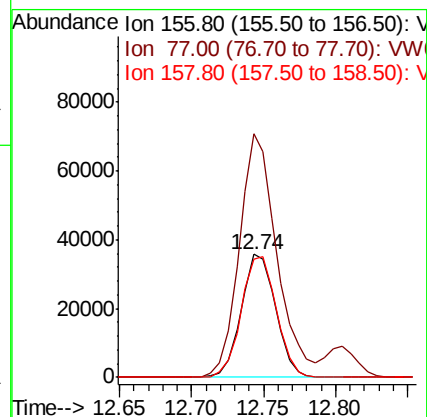
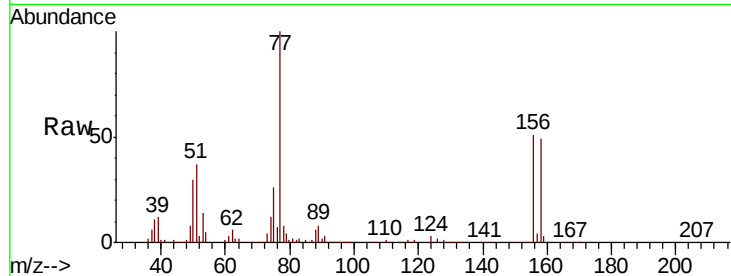




#77  
Bromobenzene  
Concen: 21.700 ug/l  
RT: 12.74 min Scan# 1778  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

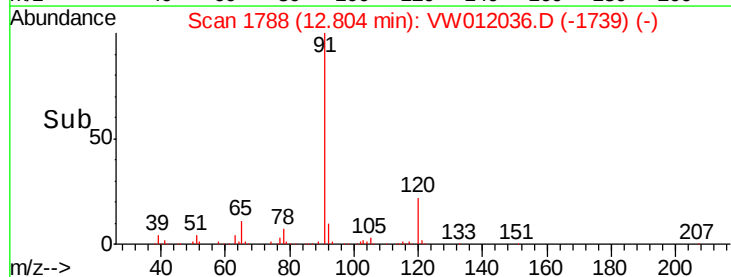
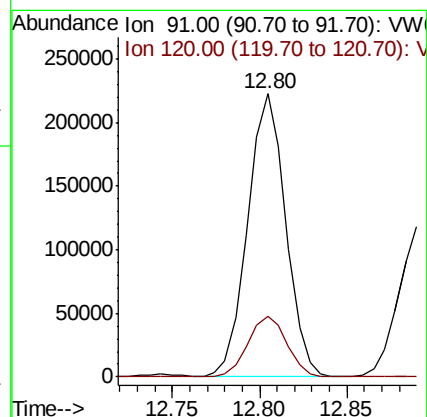
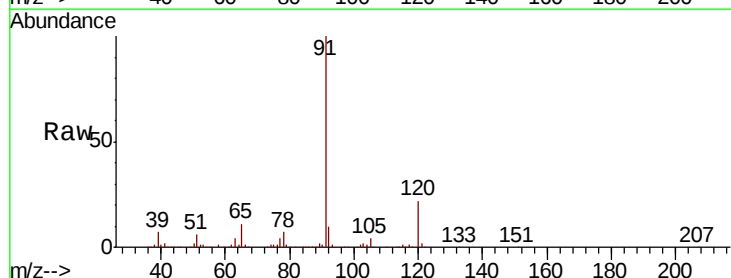
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

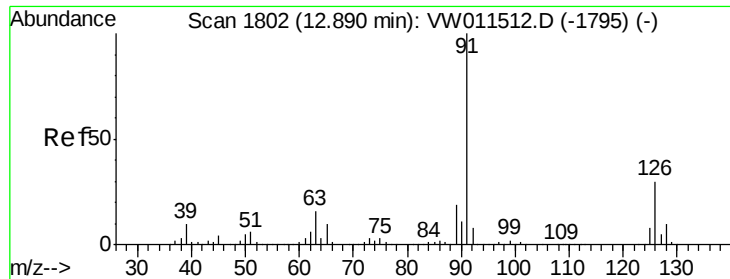
Tgt Ion:156 Resp: 59386  
Ion Ratio Lower Upper  
156 100  
77 215.4 106.5 319.4  
158 99.9 48.0 144.2



#78  
n-propylbenzene  
Concen: 22.260 ug/l  
RT: 12.80 min Scan# 1788  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion: 91 Resp: 335419  
Ion Ratio Lower Upper  
91 100  
120 21.8 10.9 32.7

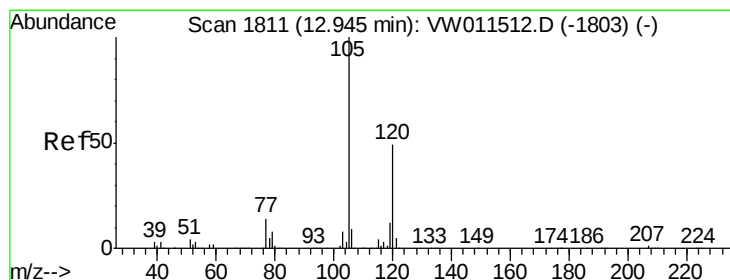
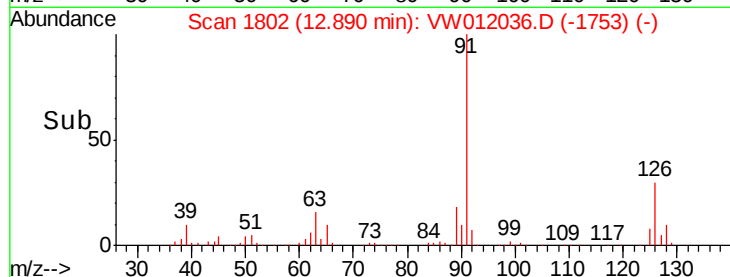
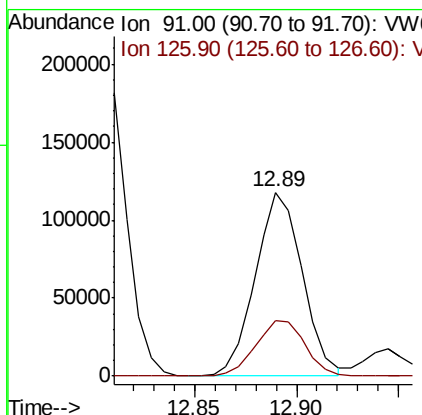
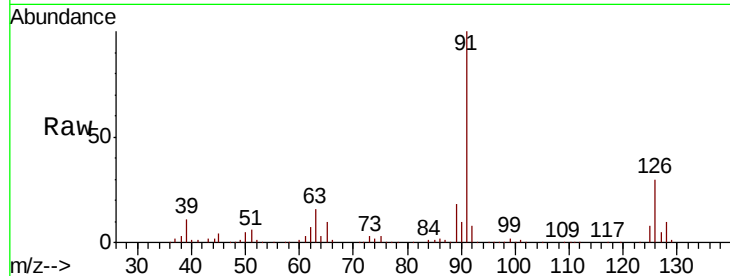




#79  
 2-Chlorotoluene  
 Concen: 21.730 ug/l  
 RT: 12.89 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

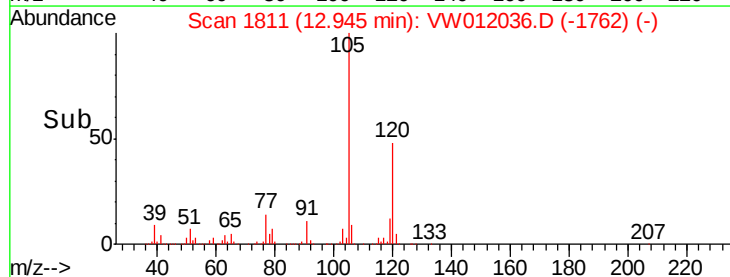
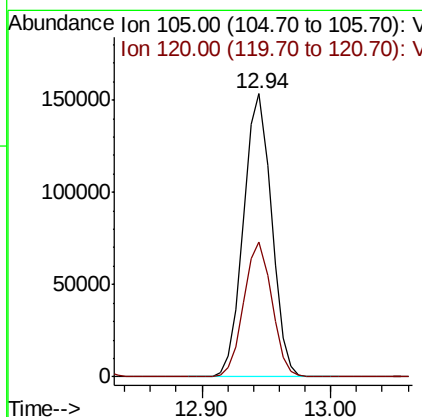
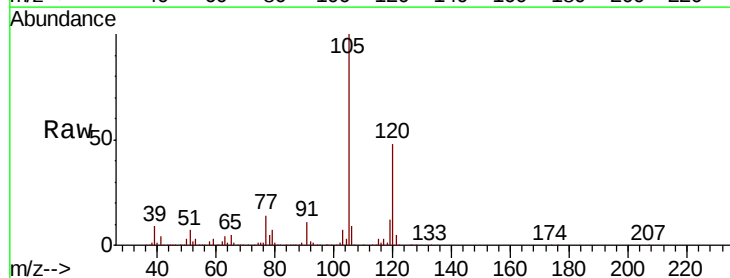
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

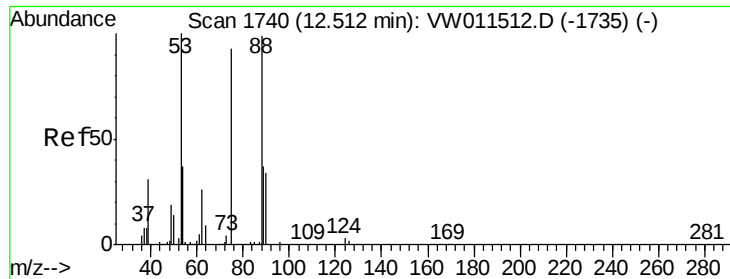
Tgt Ion: 91 Resp: 188628  
 Ion Ratio Lower Upper  
 91 100  
 126 31.8 15.7 47.1



#80  
 1,3,5-Trimethylbenzene  
 Concen: 22.194 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion: 105 Resp: 230338  
 Ion Ratio Lower Upper  
 105 100  
 120 47.7 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 21.181 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

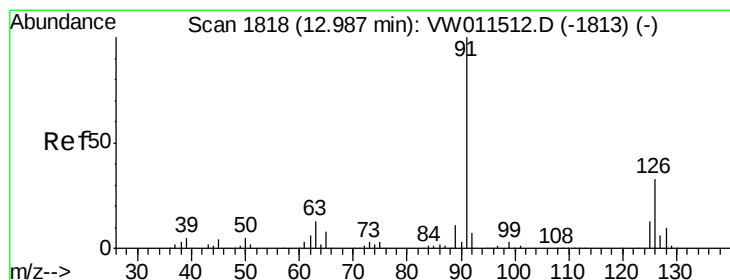
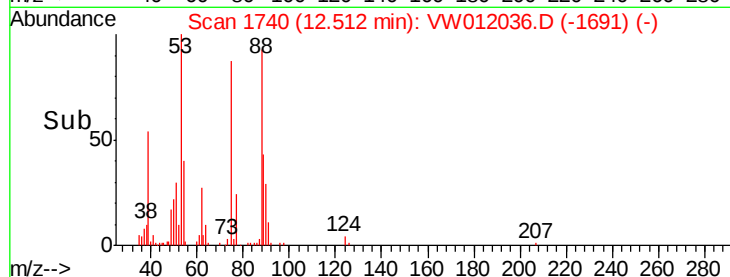
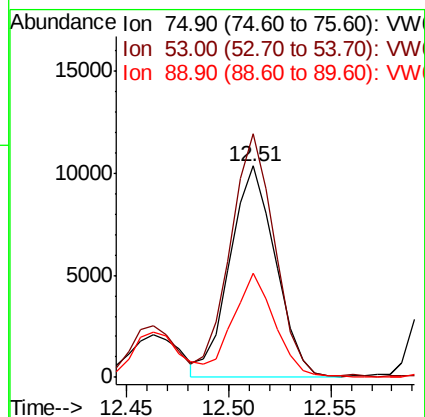
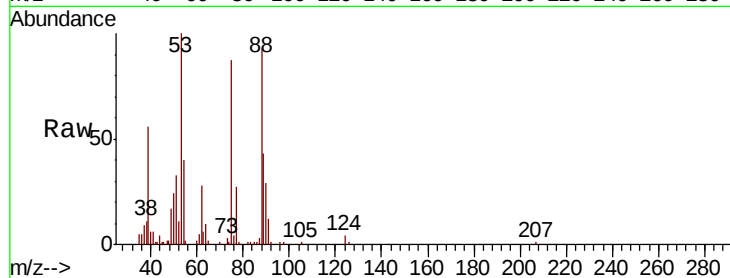
Tgt Ion: 75 Resp: 16139

Ion Ratio Lower Upper

75 100

53 113.0 88.0 132.0

89 44.7 35.3 52.9



#82

4-Chlorotoluene

Concen: 21.831 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW012036.D

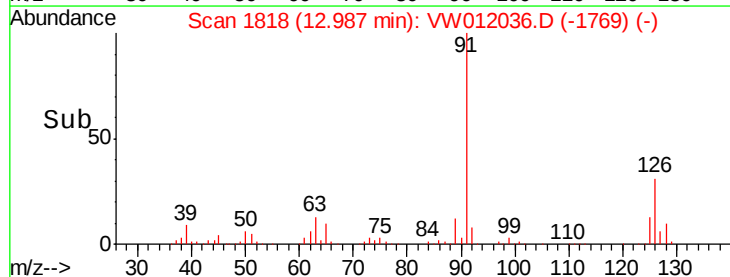
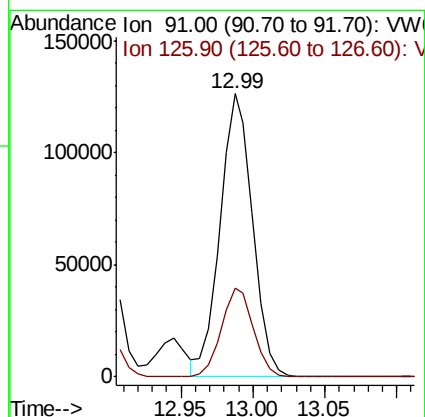
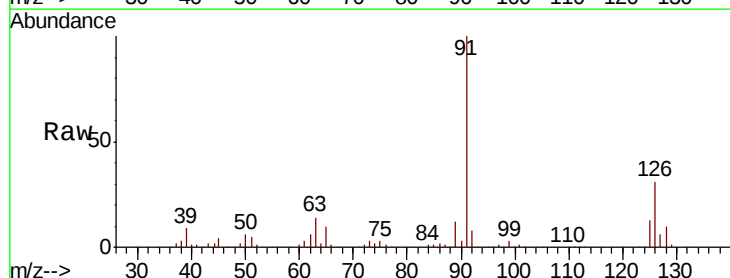
Acq: 20 Aug 2019 18:19

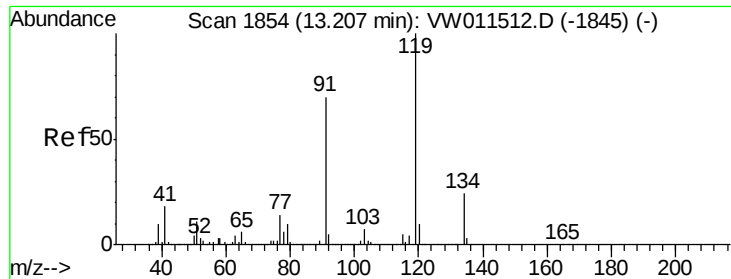
Tgt Ion: 91 Resp: 198835

Ion Ratio Lower Upper

91 100

126 31.2 15.6 46.8

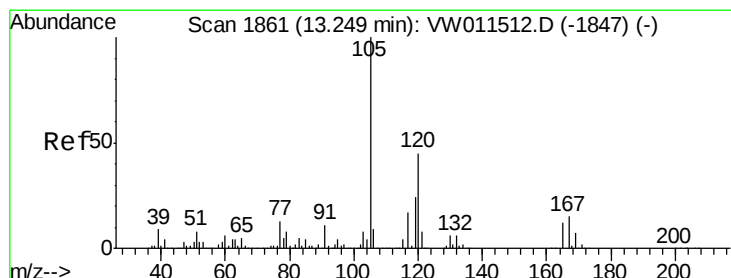
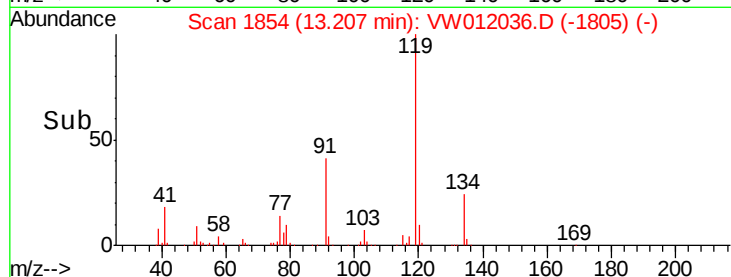
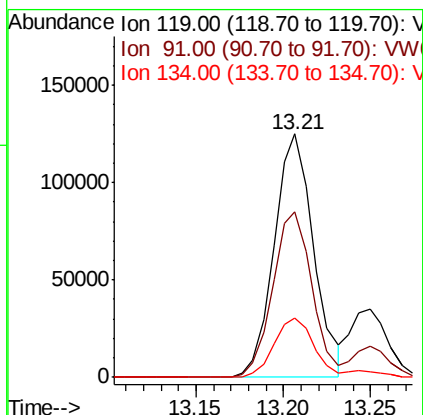
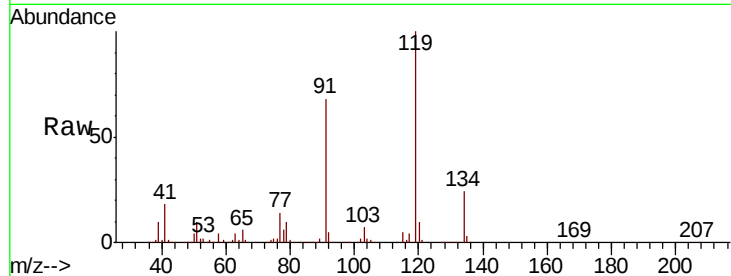




#83  
tert-Butylbenzene  
Concen: 22.709 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

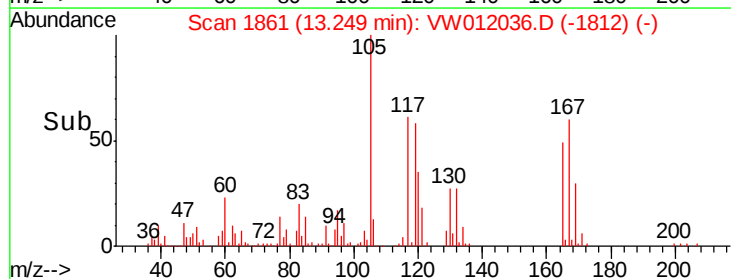
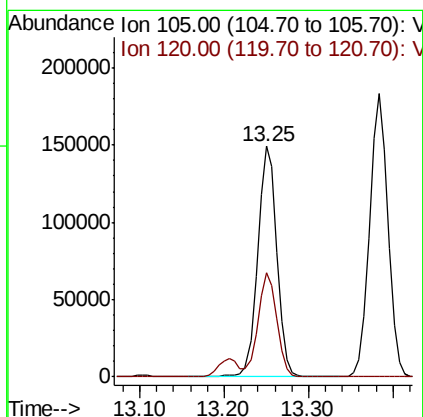
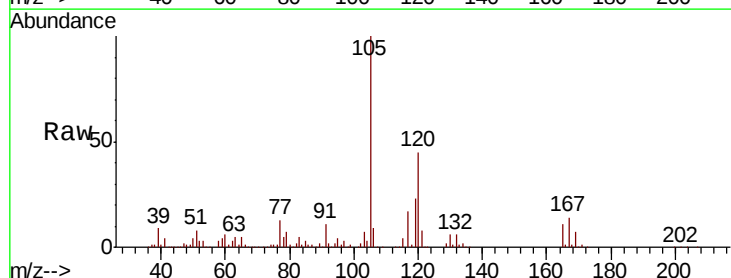
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

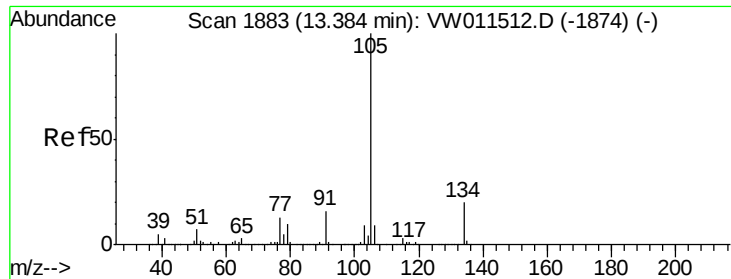
Tgt Ion:119 Resp: 197092  
Ion Ratio Lower Upper  
119 100  
91 67.7 34.5 103.6  
134 24.9 12.4 37.4



#84  
1,2,4-Trimethylbenzene  
Concen: 22.282 ug/l  
RT: 13.25 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion:105 Resp: 232953  
Ion Ratio Lower Upper  
105 100  
120 43.7 22.1 66.5

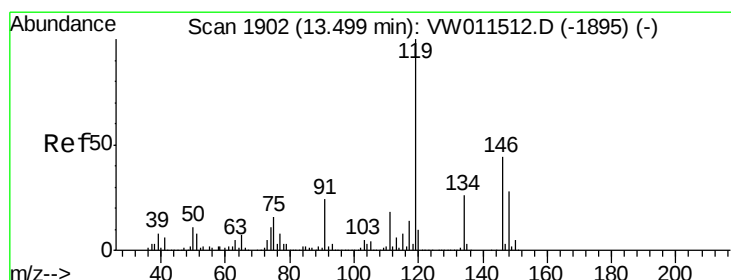
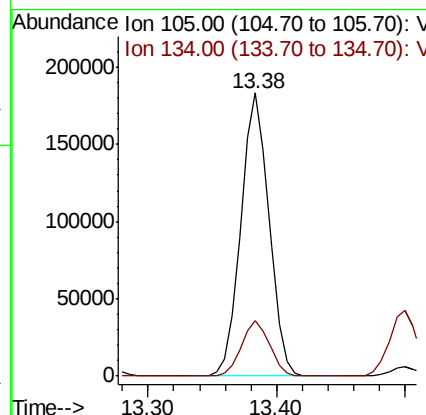
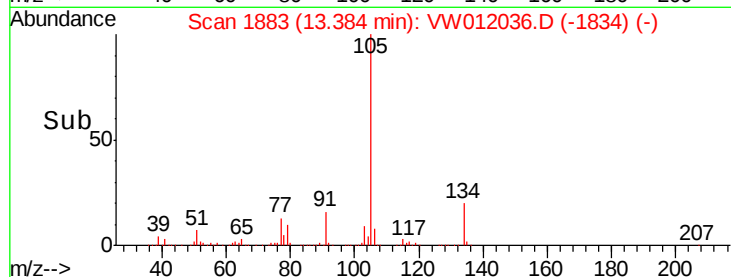
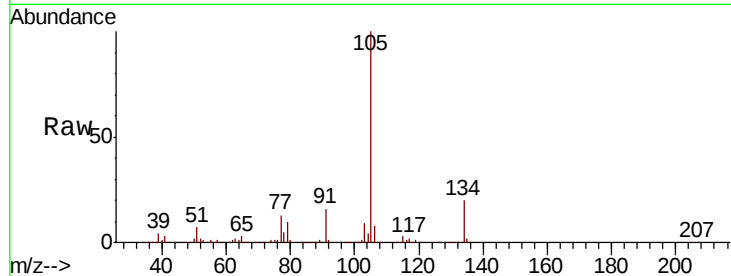




#85  
 sec-Butylbenzene  
 Concen: 22.342 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

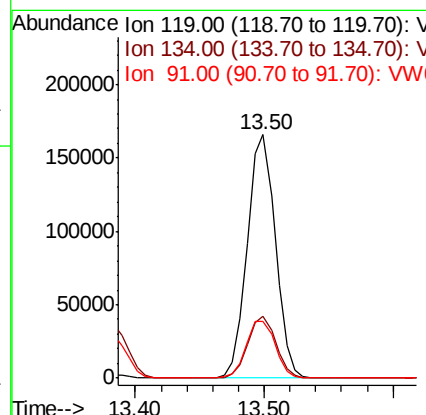
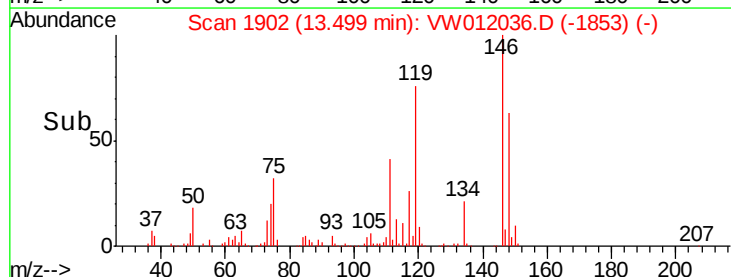
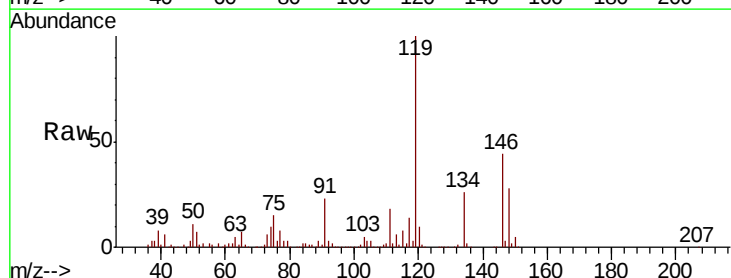
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

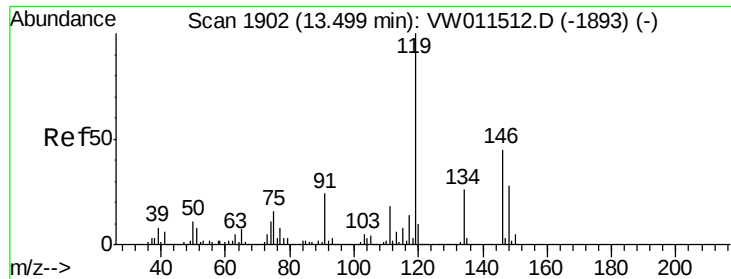
Tgt Ion:105 Resp: 276677  
 Ion Ratio Lower Upper  
 105 100  
 134 19.7 9.7 29.1



#86  
 p-Isopropyltoluene  
 Concen: 22.118 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion:119 Resp: 248517  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 12.8 38.4  
 91 24.6 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 21.866 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

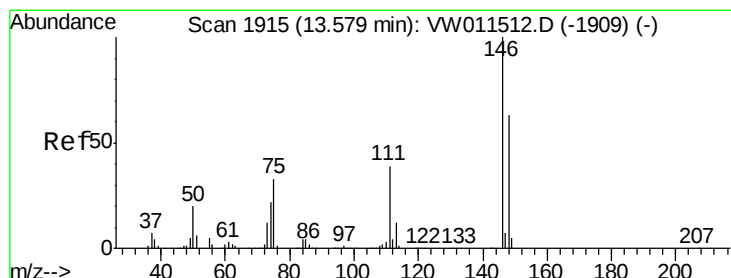
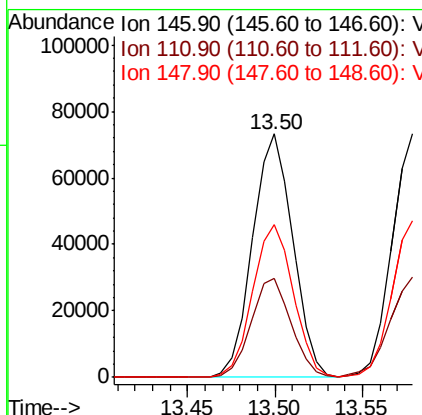
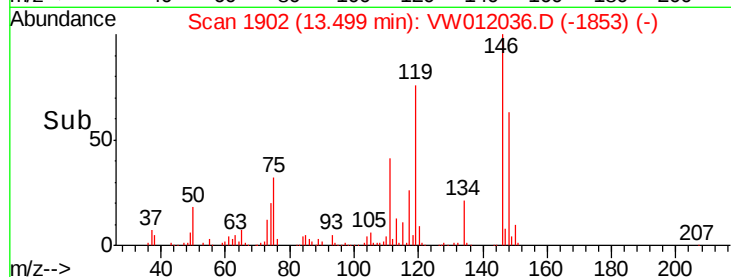
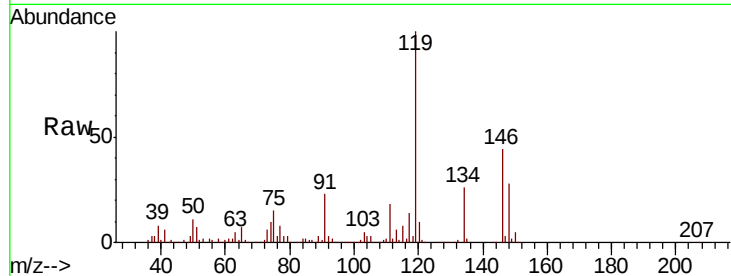
Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion:146 Resp: 117334

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 40.6  | 20.5  | 61.6  |
| 148 | 63.2  | 31.8  | 95.3  |



#88

1,4-Dichlorobenzene

Concen: 21.687 ug/l

RT: 13.58 min Scan# 1915

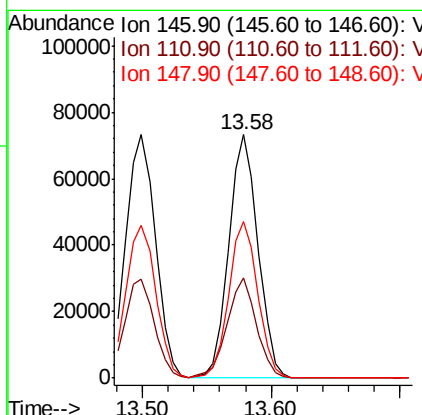
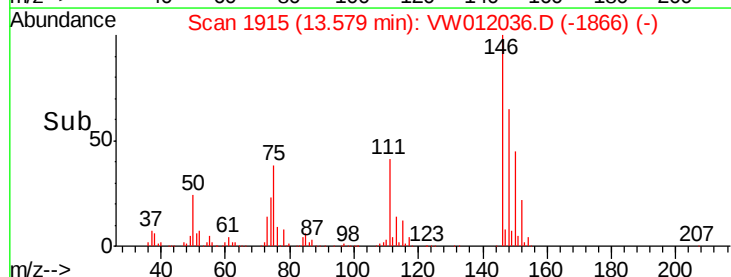
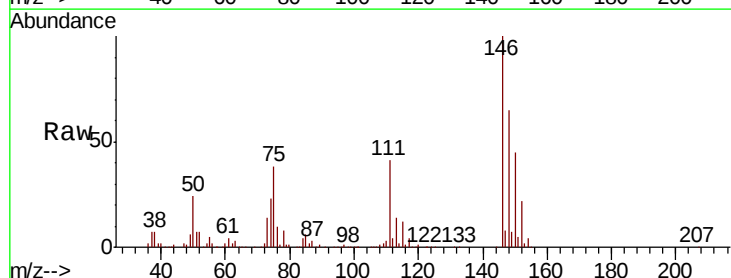
Delta R.T. 0.00 min

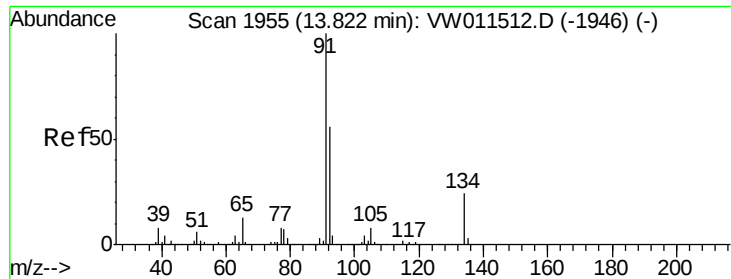
Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Tgt Ion:146 Resp: 115761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 41.6  | 20.1  | 60.2  |
| 148 | 64.0  | 31.9  | 95.9  |





#89

n-Butylbenzene

Concen: 21.891 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

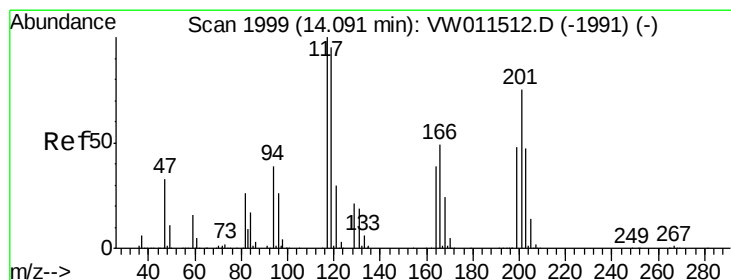
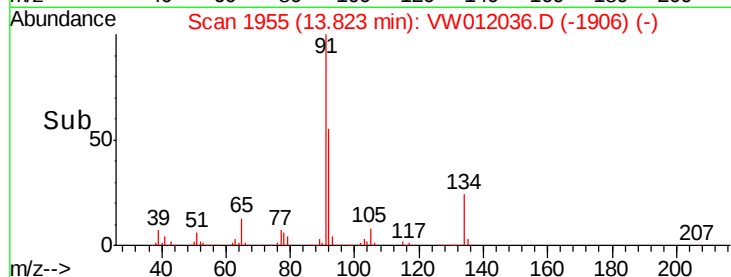
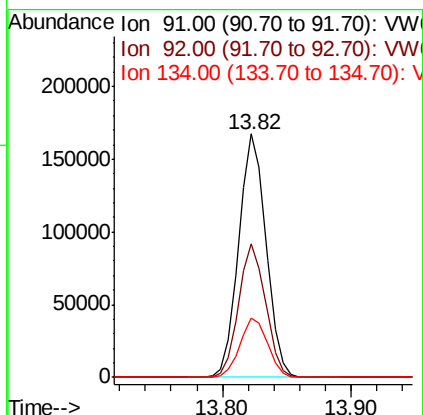
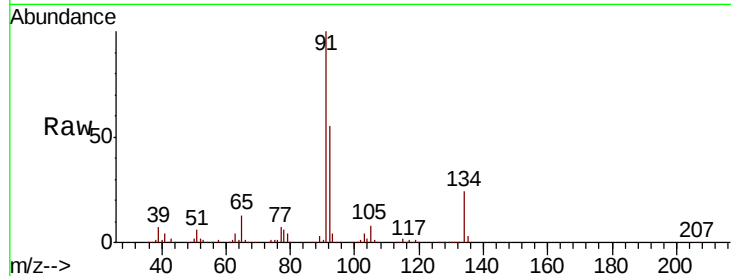
Tgt Ion: 91 Resp: 245462

Ion Ratio Lower Upper

91 100

92 54.3 27.5 82.4

134 24.6 12.2 36.6



#90

Hexachloroethane

Concen: 21.491 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW012036.D

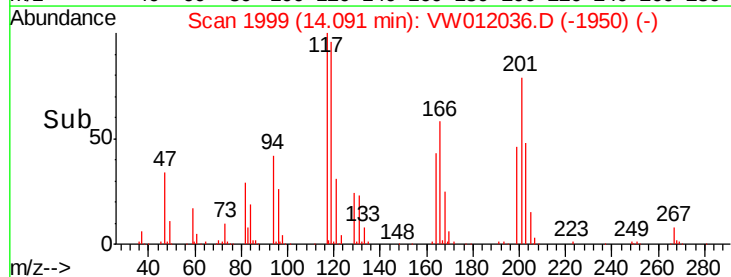
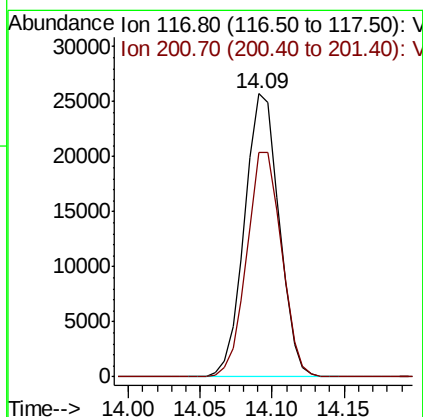
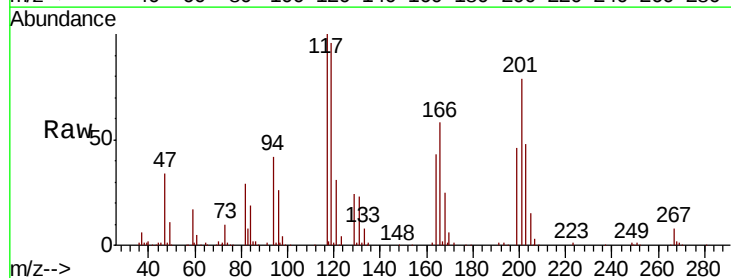
Acq: 20 Aug 2019 18:19

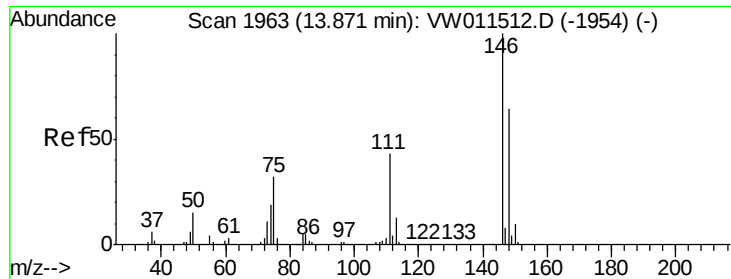
Tgt Ion: 117 Resp: 42699

Ion Ratio Lower Upper

117 100

201 79.9 39.4 118.2





#91

1,2-Dichlorobenzene

Concen: 22.041 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

Instrument :

MSVOA\_W

ClientSampleId :

VW0820SBS02

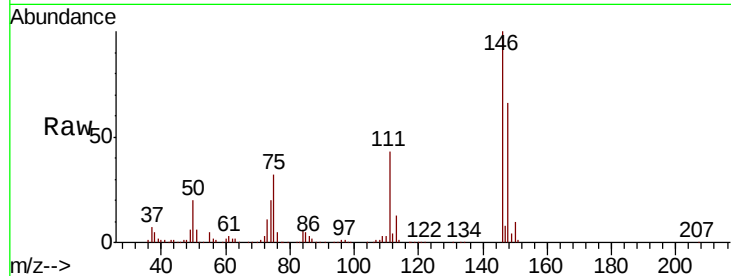
Tgt Ion:146 Resp: 104606

Ion Ratio Lower Upper

146 100

111 43.5 21.6 65.0

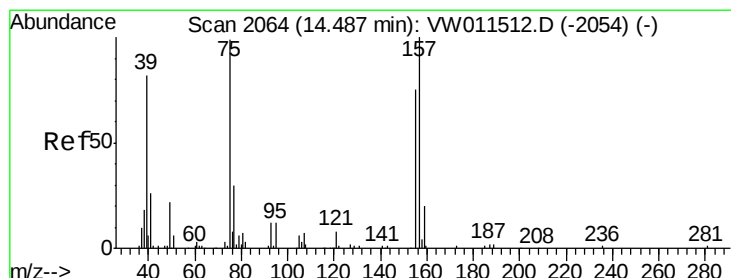
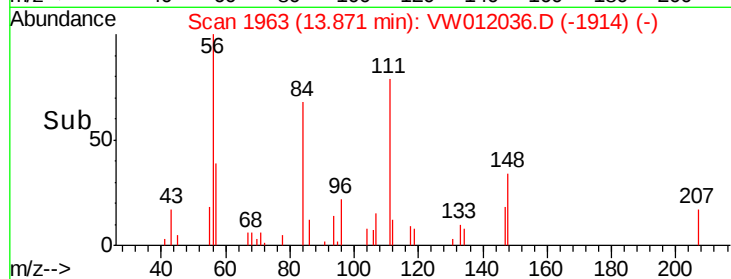
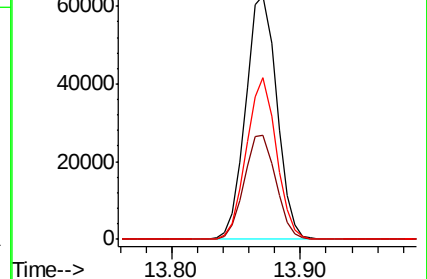
148 63.5 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.645 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW012036.D

Acq: 20 Aug 2019 18:19

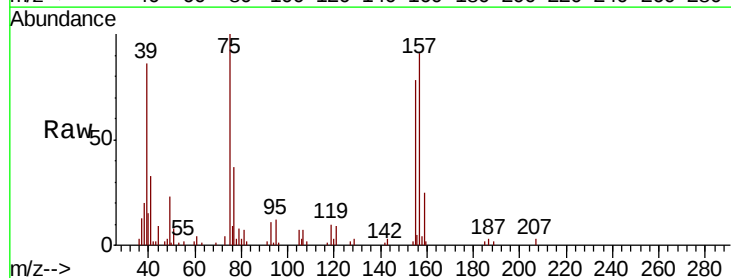
Tgt Ion: 75 Resp: 8596

Ion Ratio Lower Upper

75 100

155 77.3 38.2 114.6

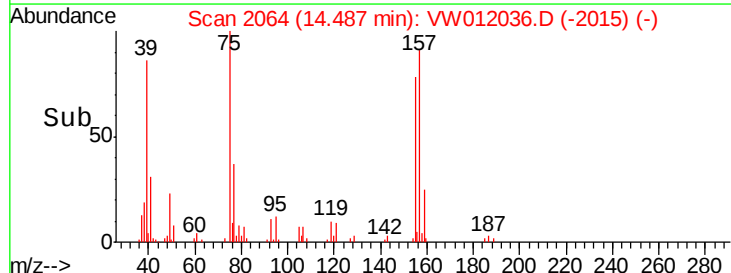
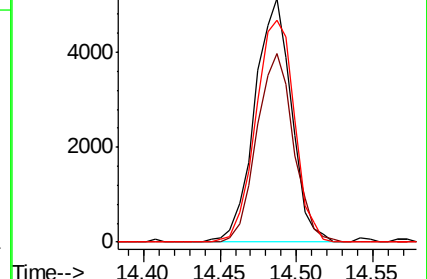
157 95.7 48.9 146.7

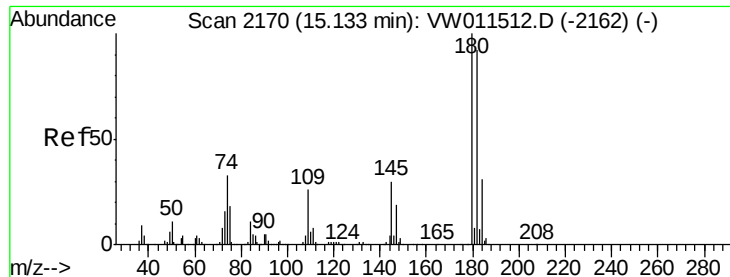


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

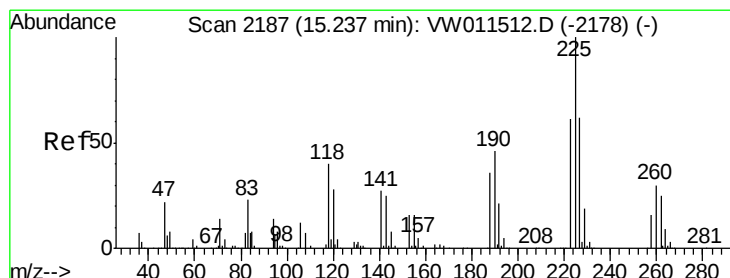
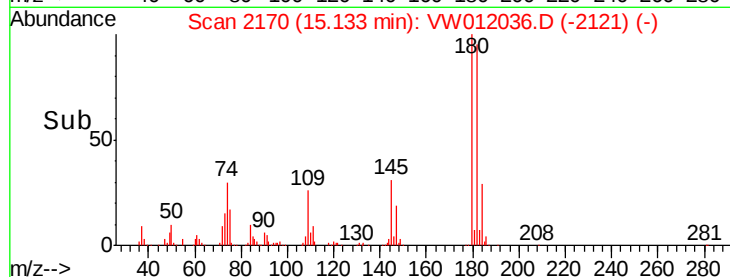
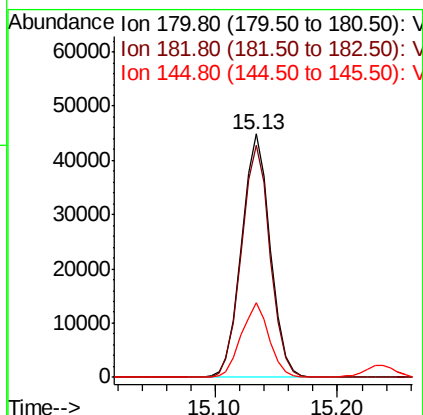
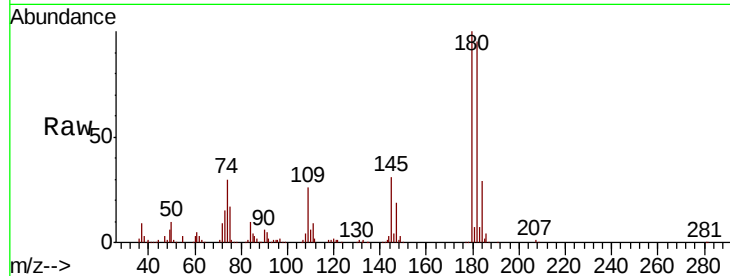




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.760 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

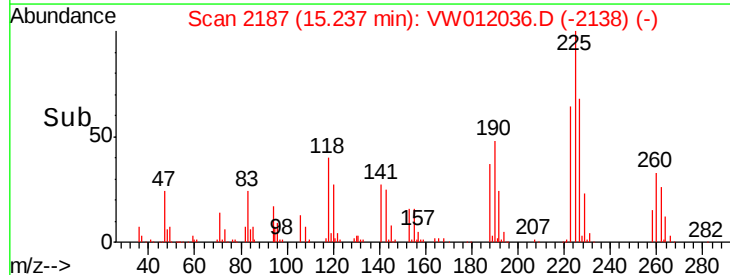
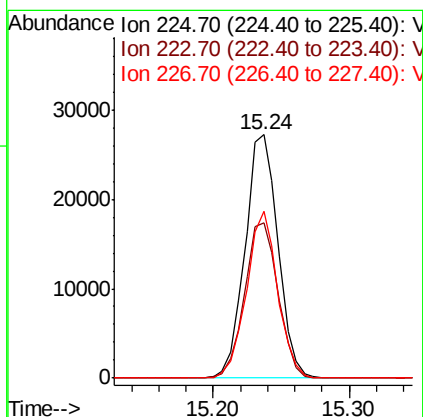
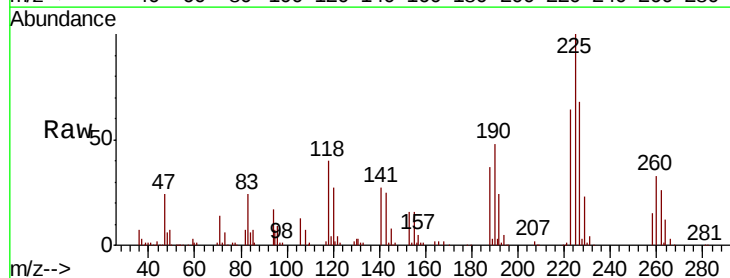
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0820SBS02

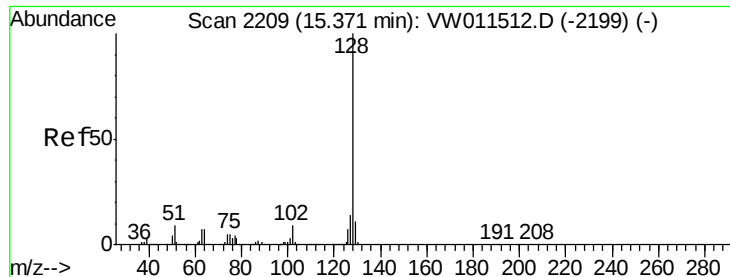
Tgt Ion:180 Resp: 72782  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 47.4 142.2  
 145 29.7 15.4 46.1



#94  
 Hexachlorobutadiene  
 Concen: 22.133 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. 0.00 min  
 Lab File: VW012036.D  
 Acq: 20 Aug 2019 18:19

Tgt Ion:225 Resp: 46166  
 Ion Ratio Lower Upper  
 225 100  
 223 65.0 30.8 92.3  
 227 64.7 31.6 94.7

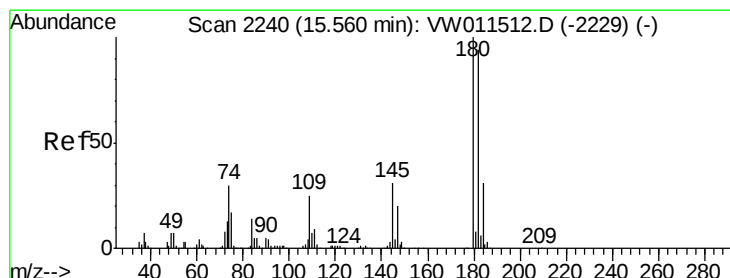
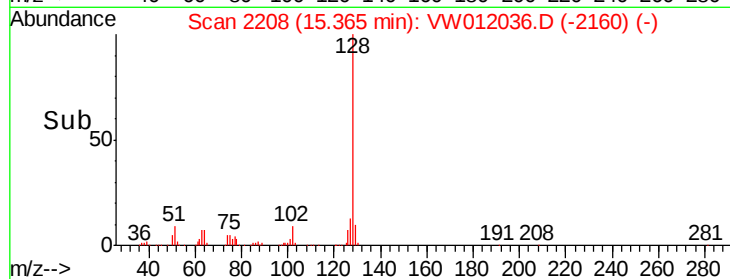
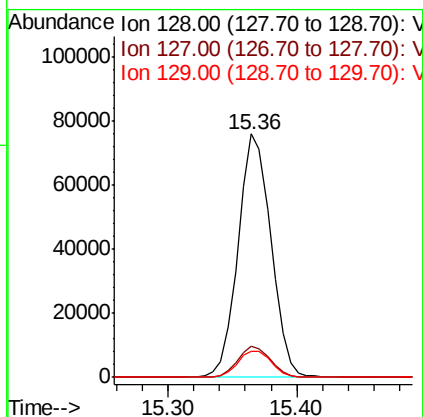
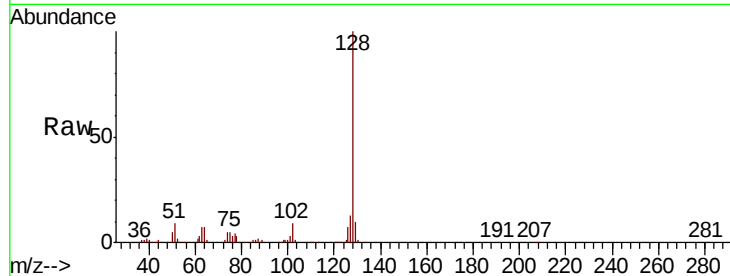




#95  
Naphthalene  
Concen: 21.614 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0820SBS02

Tgt Ion:128 Resp: 133595  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.6 16.0  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 22.138 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW012036.D  
Acq: 20 Aug 2019 18:19

Tgt Ion:180 Resp: 64906  
Ion Ratio Lower Upper  
180 100  
182 95.8 47.4 142.2  
145 32.2 15.9 47.7

