

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080419\  
 Data File : VW011683.D  
 Acq On : 04 Aug 2019 00:47  
 Operator : SY/VA  
 Sample : VW0804SBSD02  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

Quant Time: Aug 04 02:46:12 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  | 225915   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 380673   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 332876   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 157947   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 151487   | 58.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 116.80% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 119834   | 56.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.22% |      |
| 50) Toluene-d8            | 10.32  | 98  | 491606   | 56.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.44% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 172874   | 55.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.90% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 31322  | 24.877  | ug/l   | 93     |
| 3) Chloromethane              | 2.21 | 50  | 47097  | 21.572  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 55566  | 21.140  | ug/l   | 98     |
| 5) Bromomethane               | 2.76 | 94  | 28873  | 19.846  | ug/l   | 95     |
| 6) Chloroethane               | 2.91 | 64  | 30686  | 20.438  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 21723  | 18.492  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.68 | 74  | 27849  | 20.910  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 45291  | 20.325  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 64897  | 20.608  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 22250  | 105.946 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 48447  | 20.591  | ug/l   | 94     |
| 13) Acrolein                  | 3.89 | 56  | 11825  | 63.529  | ug/l   | 99     |
| 14) Allyl chloride            | 4.66 | 41  | 101774 | 20.338  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 70397  | 105.882 | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43  | 64581  | 78.262  | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 147878 | 20.081  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 55092  | 29.719  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 80270  | 21.499  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.92 | 84  | 59101  | 20.767  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 53530  | 21.103  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.31 | 45  | 201645 | 21.373  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.25 | 43  | 554262 | 93.493  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 109148 | 21.601  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 101429 | 93.935  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 54839  | 17.647  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 57647  | 20.649  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.51 | 49  | 50638  | 22.578  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 66254  | 107.344 | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83  | 100995 | 21.665  | ug/l   | 95     |
| 31) Cyclohexane               | 7.95 | 56  | 97895  | 20.183  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 76882  | 21.656  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 79750  | 20.148  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 45192  | 19.844  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 68547  | 20.229  | ug/l   | 100    |

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 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   | 84216    | 19.322  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 230813   | 20.818  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 27356    | 20.095  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 71911    | 20.716  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 82606    | 19.724  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 54078    | 20.293  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 61710    | 20.801  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 28329    | 20.922  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.64  | 83   | 72895    | 20.523  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 41867    | 20.810  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8602     | 438.756 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 222678   | 102.218 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 138833   | 20.735  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 70432    | 18.983  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 85215    | 19.317  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 39589    | 20.607  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 56735    | 20.181  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 74227    | 20.422  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 143133   | 112.136 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 147251   | 95.733  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 43156    | 20.237  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 37525    | 20.640  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 47904    | 22.102  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 137752   | 20.583  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 48194    | 20.674  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 262898   | 20.626  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 188979   | 40.770  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 87246    | 20.255  | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 152387   | 20.461  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 23281    | 19.588  | ug/l # | 95       |
| 73) Isopropylbenzene           | 12.46 | 105  | 242117   | 20.548  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 67595    | 18.323  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 46799    | 21.115  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 32874m   | 19.670  | ug/l   |          |
| 77) Bromobenzene               | 12.74 | 156  | 55152    | 21.176  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 296551   | 20.680  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 173309   | 20.978  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 205354   | 20.791  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 13607    | 18.764  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 182358   | 21.038  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 170660   | 20.661  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 205593   | 20.663  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 239164   | 20.293  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 213393   | 19.956  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 104791   | 20.520  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 102229   | 20.124  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.82 | 91   | 203073   | 19.030  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 37629    | 19.900  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 93047    | 20.601  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7839     | 20.740  | ug/l   | 93       |

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ALS Vial : 33 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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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

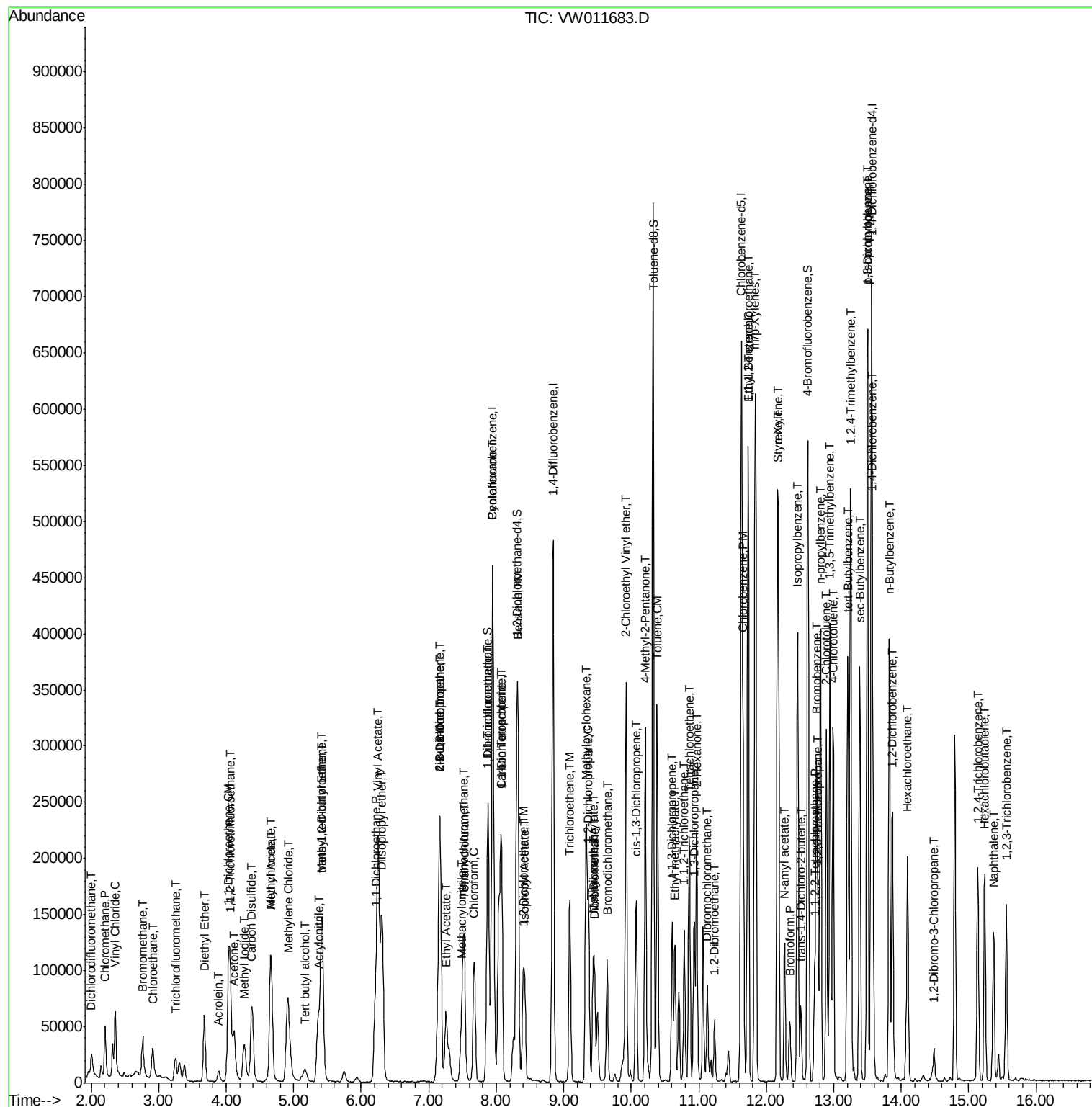
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 58061    | 18.240 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 36301    | 18.287 | ug/l  | 99       |
| 95) Naphthalene            | 15.36 | 128  | 108564   | 18.757 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 52892    | 18.956 | ug/l  | 100      |

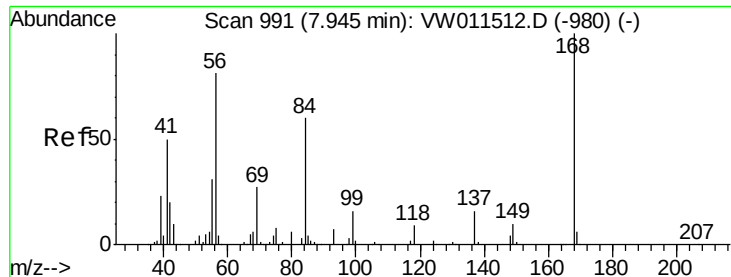
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW080419\  
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QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

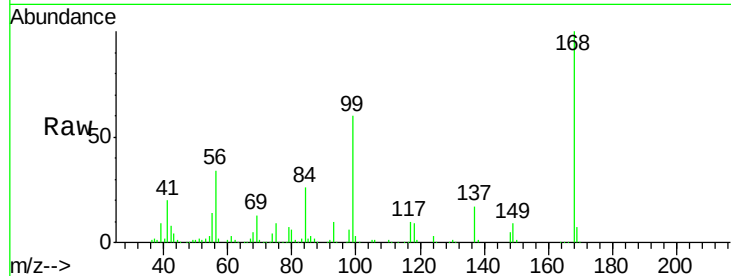
VW0804SBSD02

Tot Ion:168 Resp: 225915

Ion Ratio Lower Upper

168 100

99 60.3 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

120000

100000

80000

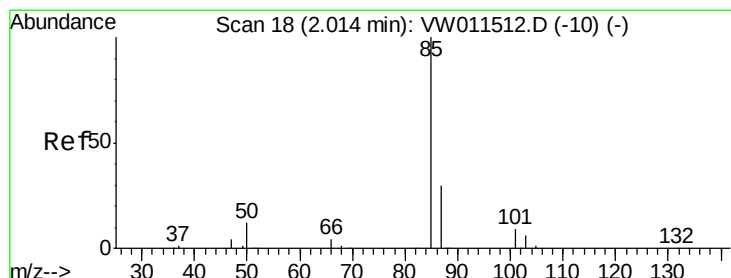
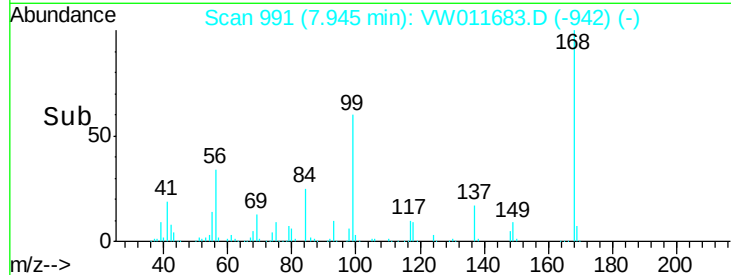
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 24.877 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW011683.D

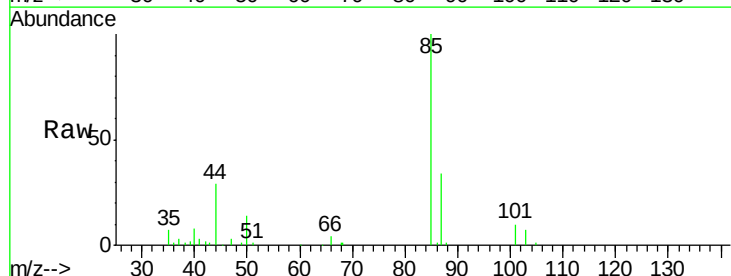
Acq: 04 Aug 2019 00:47

Tgt Ion: 85 Resp: 31322

Ion Ratio Lower Upper

85 100

87 34.4 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

12000

10000

8000

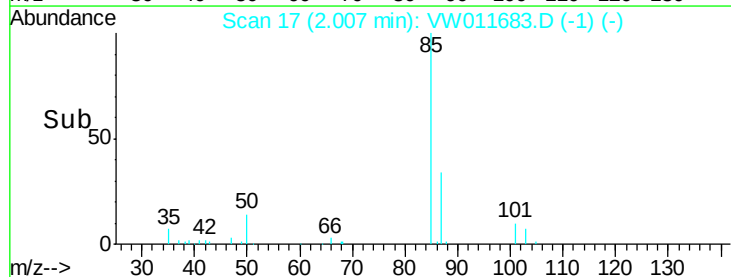
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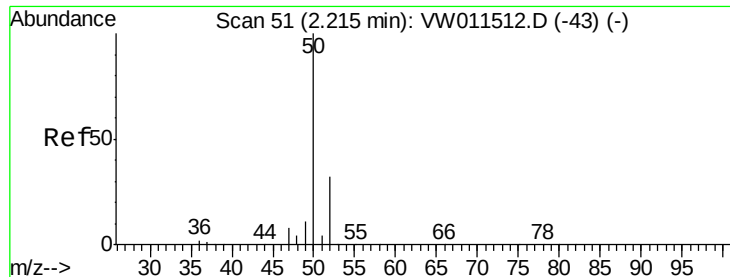
4000

2000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 21.572 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

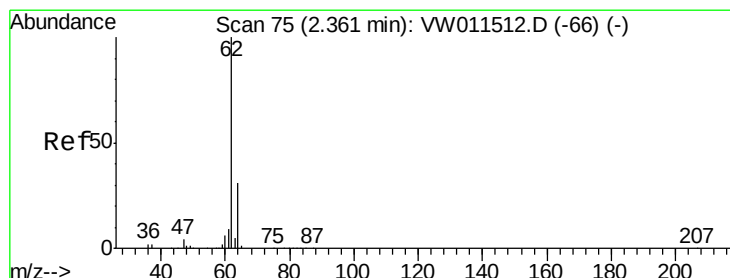
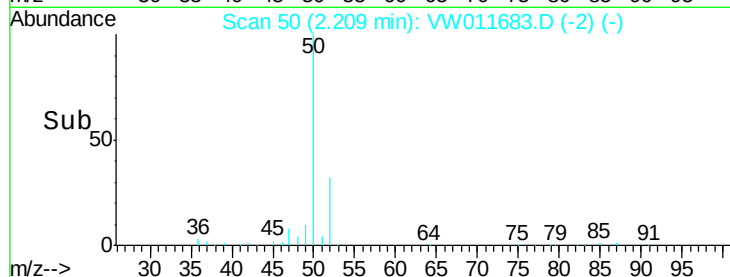
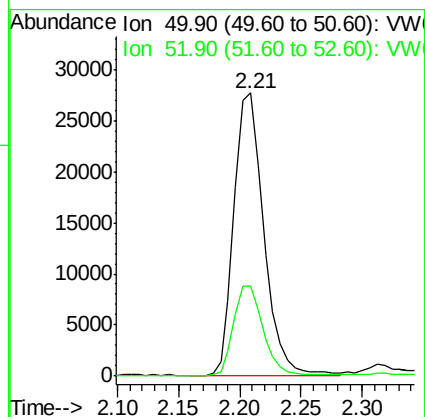
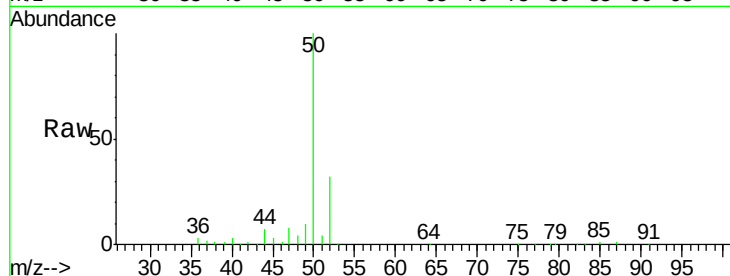
VW0804SBSD02

Tot Ion: 50 Resp: 47097

Ion Ratio Lower Upper

50 100

52 31.5 25.4 38.2



#4

Vinyl Chloride

Concen: 21.140 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011683.D

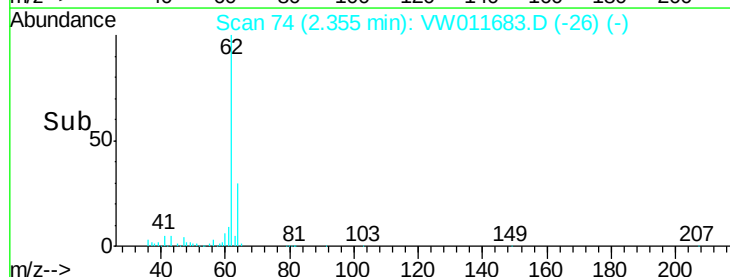
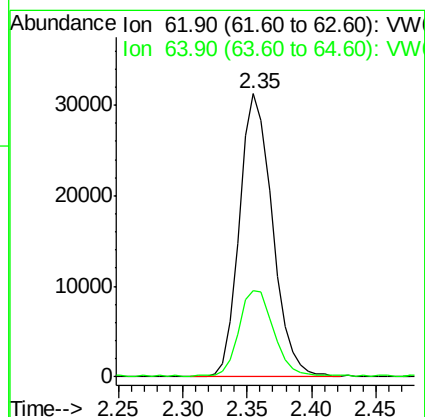
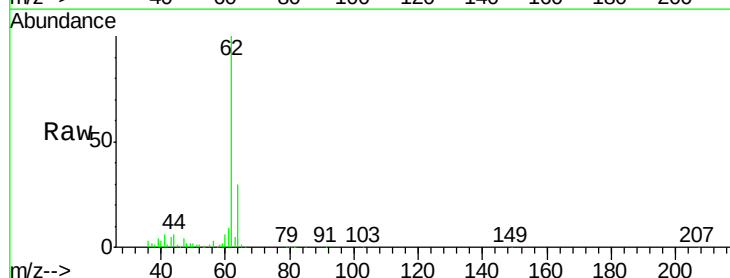
Acq: 04 Aug 2019 00:47

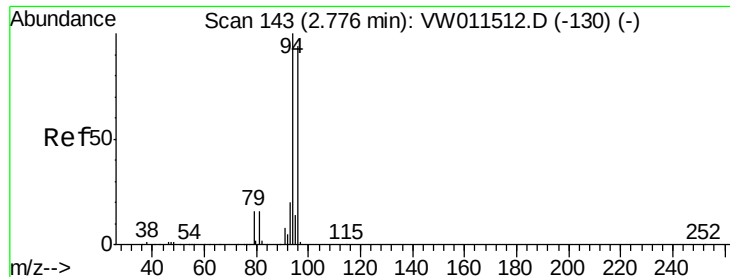
Tgt Ion: 62 Resp: 55566

Ion Ratio Lower Upper

62 100

64 30.1 25.0 37.4





#5

Bromomethane

Concen: 19.846 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

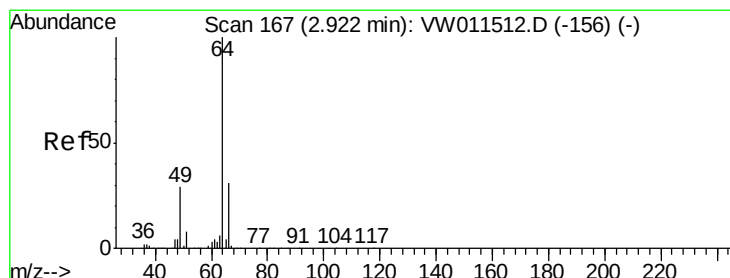
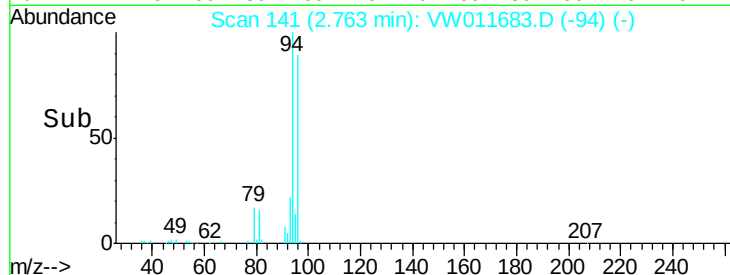
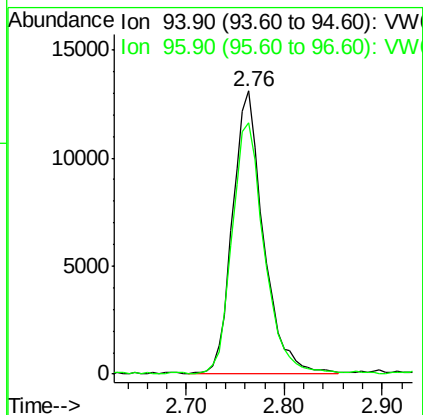
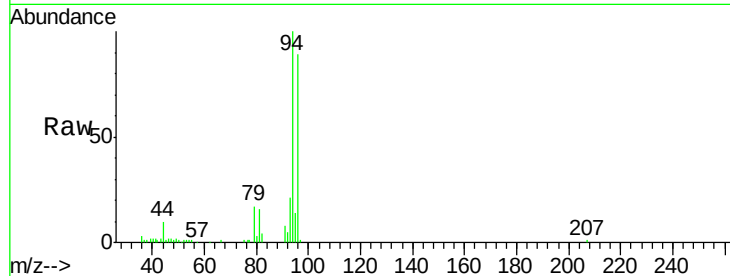
VW0804SBSD02

Tot Ion: 94 Resp: 28873

Ion Ratio Lower Upper

94 100

96 88.9 75.0 112.6



#6

Chloroethane

Concen: 20.438 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW011683.D

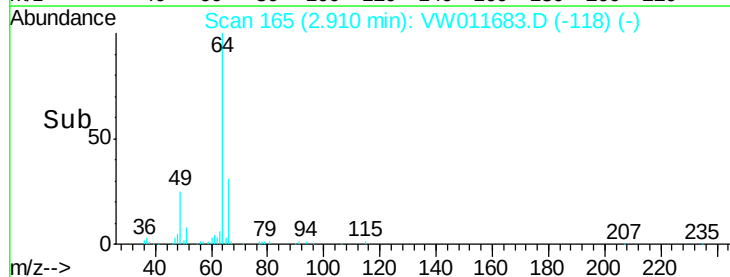
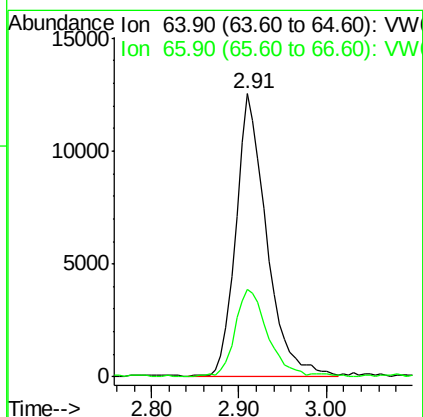
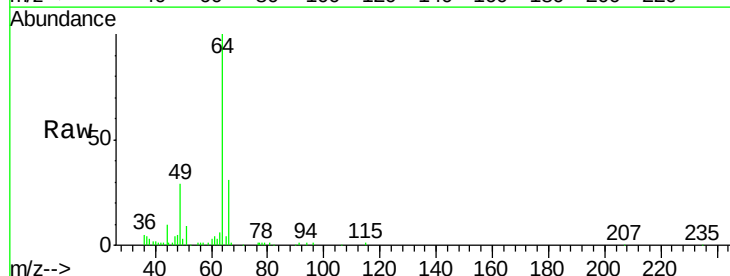
Acq: 04 Aug 2019 00:47

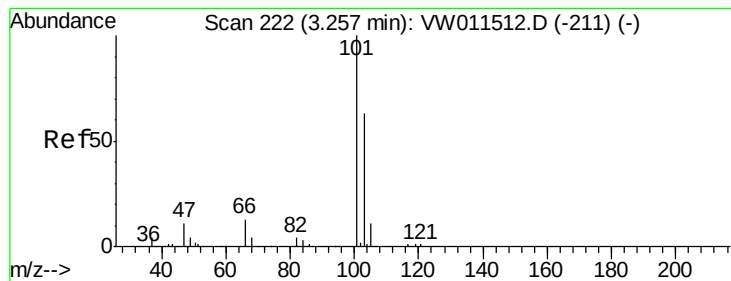
Tgt Ion: 64 Resp: 30686

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8



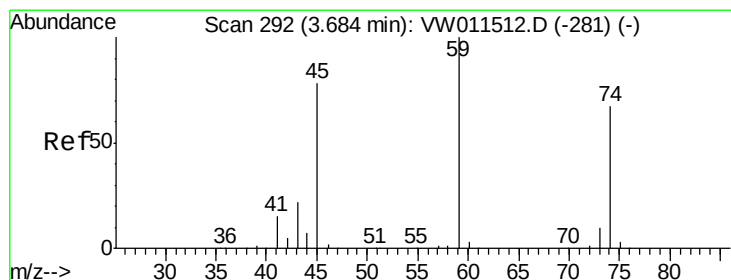
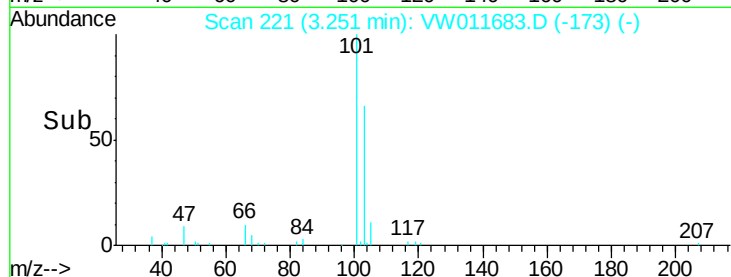
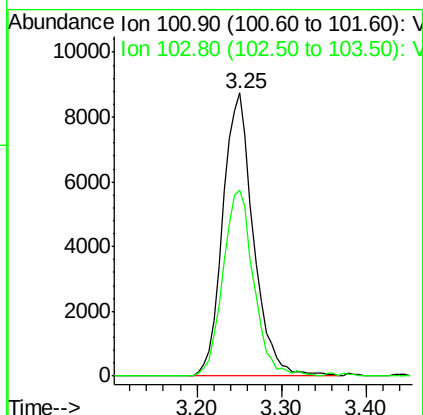
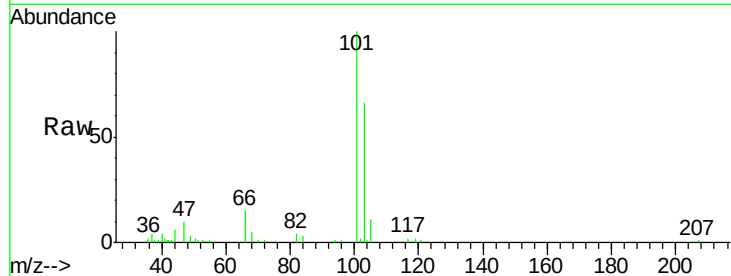


#7

Trichlorofluoromethane  
 Concen: 18.492 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

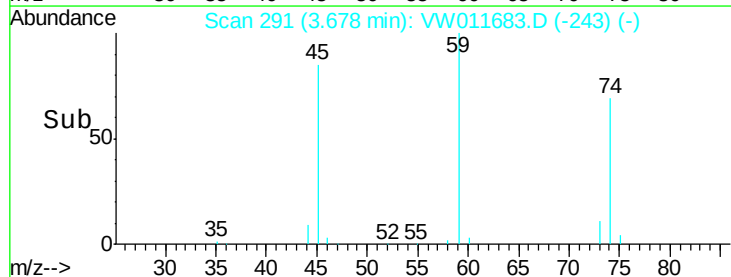
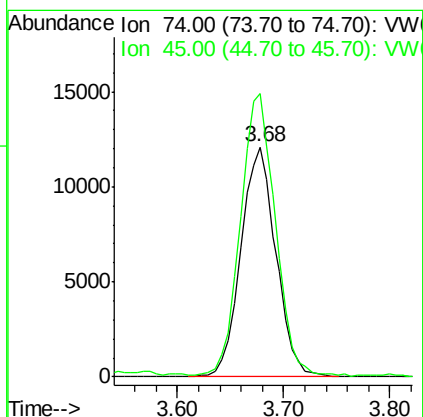
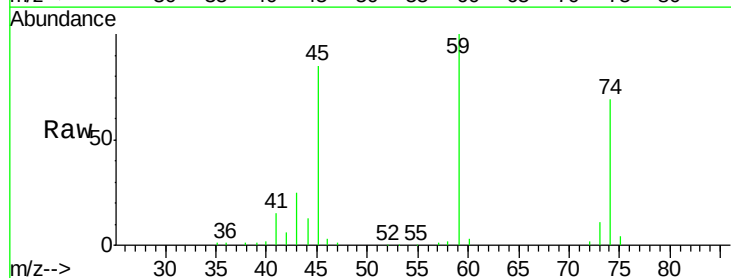
Tot Ion:101 Resp: 21723  
 Ion Ratio Lower Upper  
 101 100  
 103 65.8 50.2 75.4



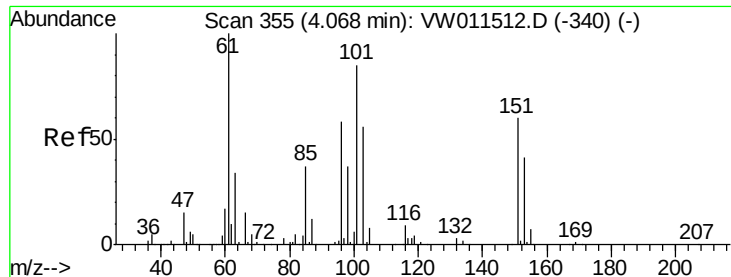
#8

Diethyl Ether  
 Concen: 20.910 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 74 Resp: 27849  
 Ion Ratio Lower Upper  
 74 100  
 45 124.5 59.6 178.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.325 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

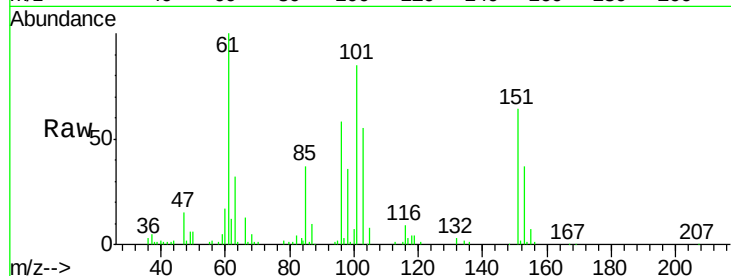
Tot Ion:101 Resp: 45291

Ion Ratio Lower Upper

101 100

85 46.8 36.6 54.8

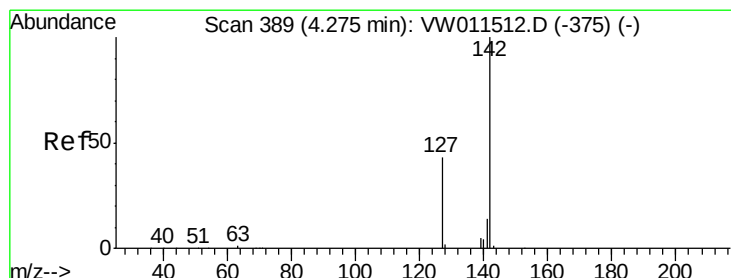
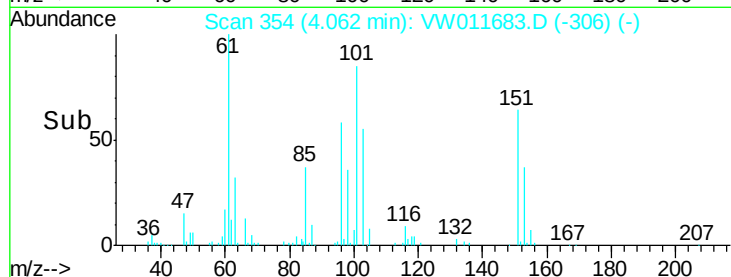
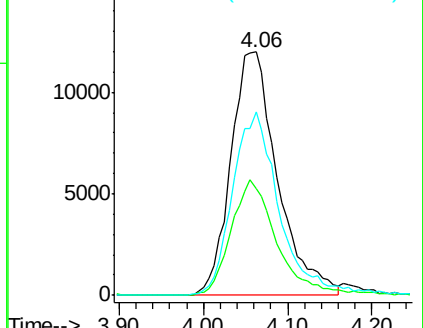
151 76.1 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.608 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

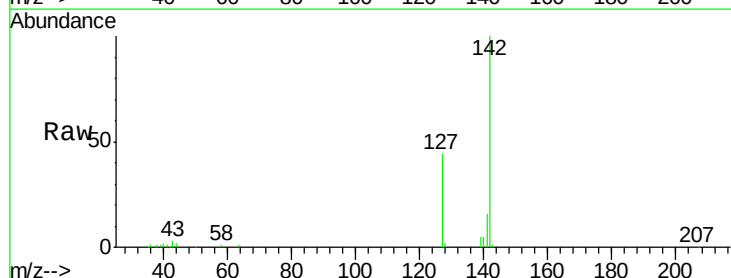
Tgt Ion:142 Resp: 64897

Ion Ratio Lower Upper

142 100

127 45.3 35.0 52.6

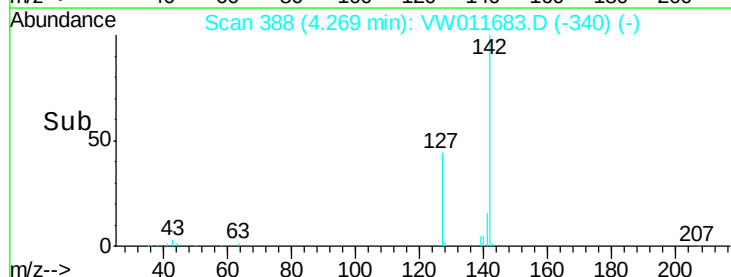
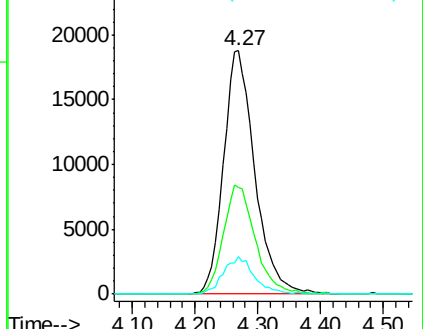
141 15.0 11.9 17.9

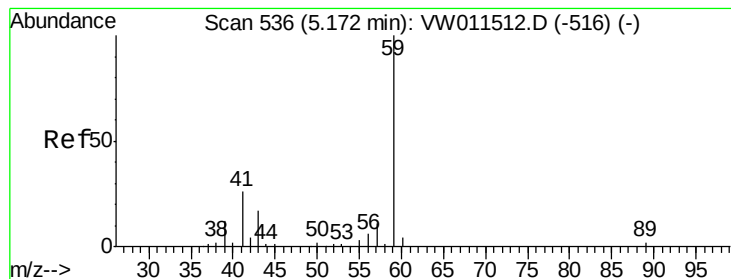


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



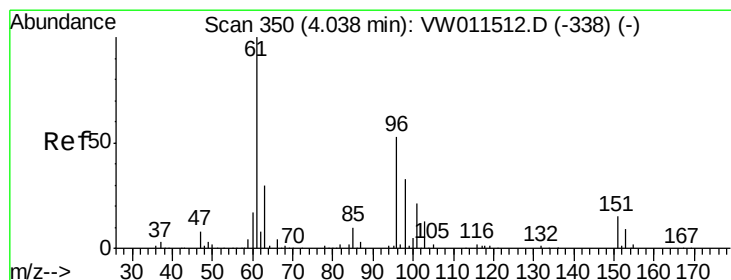
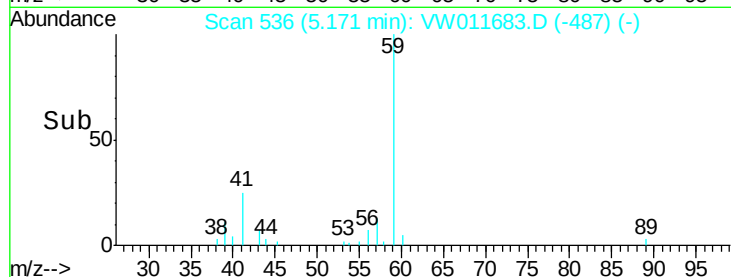
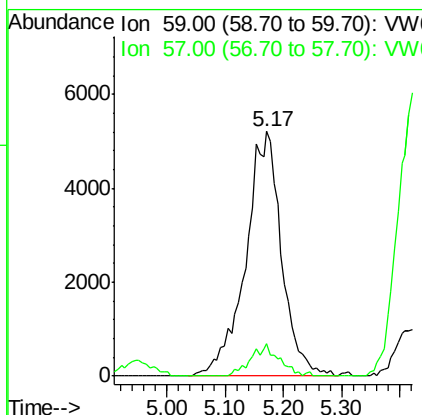
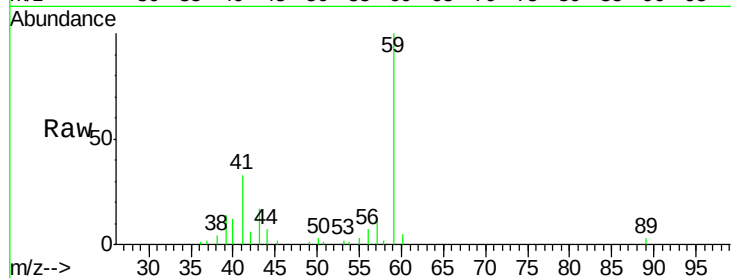


#11

Tert butyl alcohol  
 Concen: 105.946 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. 0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

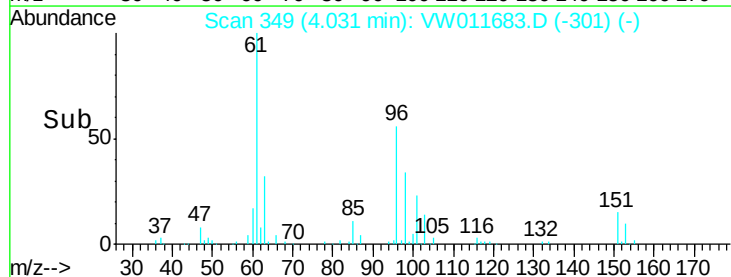
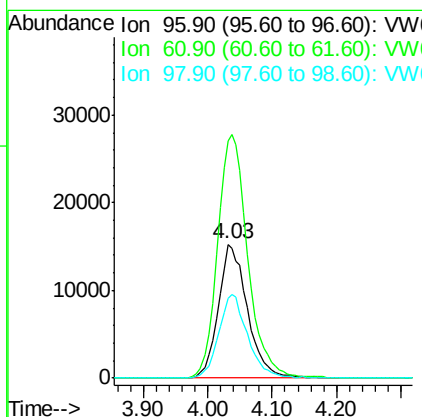
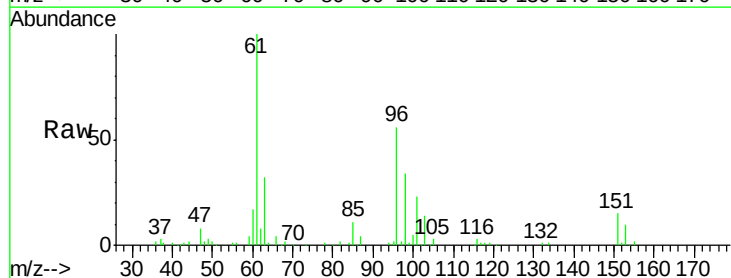
Tot Ion: 59 Resp: 22250  
 Ion Ratio Lower Upper  
 59 100  
 57 10.2 8.5 12.7

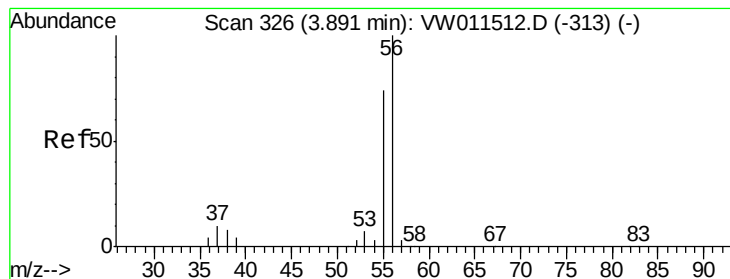


#12

1,1-Dichloroethene  
 Concen: 20.591 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 96 Resp: 48447  
 Ion Ratio Lower Upper  
 96 100  
 61 177.4 149.9 224.9  
 98 60.1 49.1 73.7





#13

Acrolein

Concen: 63.529 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

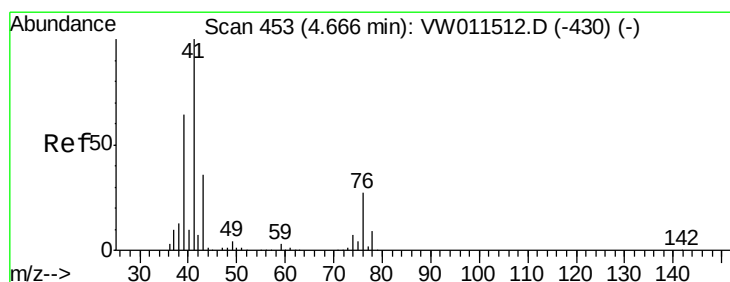
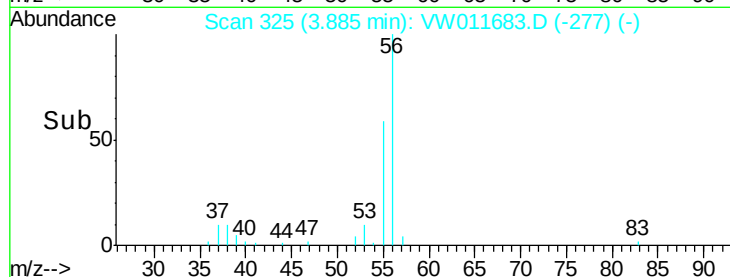
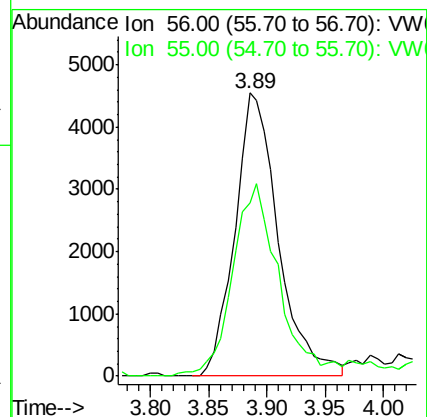
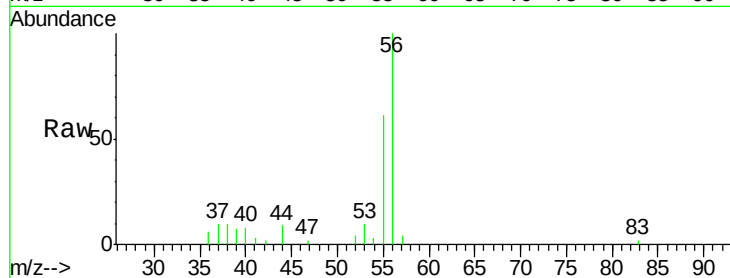
VW0804SBSD02

Tot Ion: 56 Resp: 11825

Ion Ratio Lower Upper

56 100

55 71.0 56.0 84.0



#14

Allyl chloride

Concen: 20.338 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

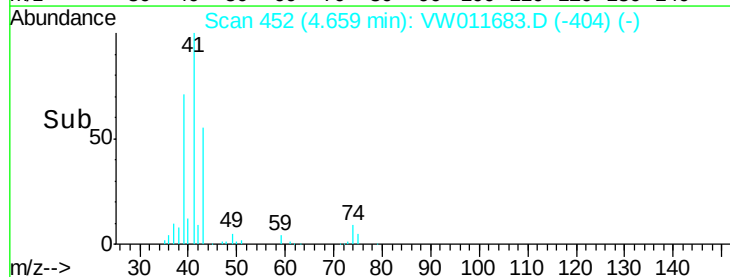
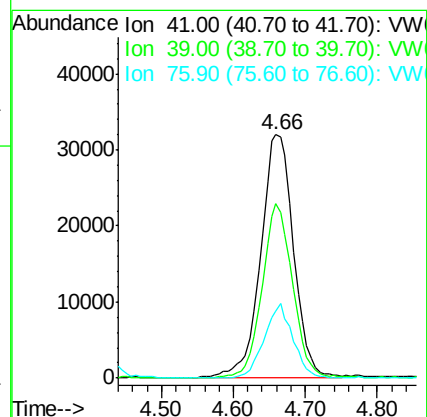
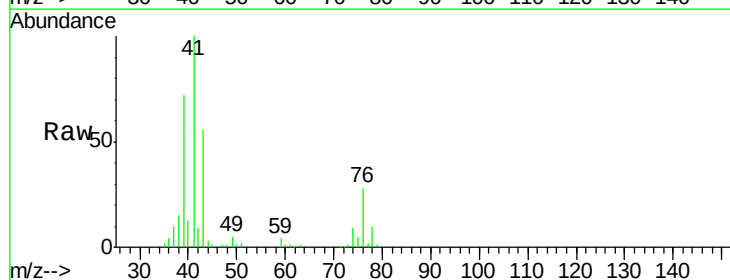
Tgt Ion: 41 Resp: 101774

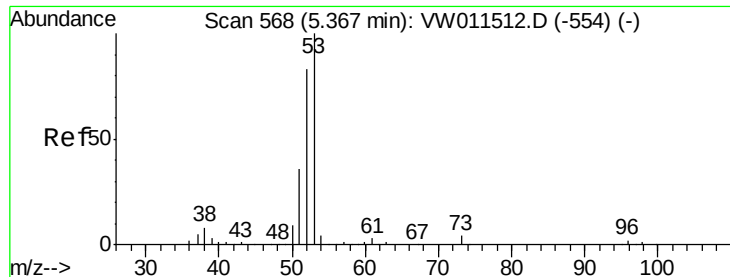
Ion Ratio Lower Upper

41 100

39 66.7 52.6 78.8

76 26.7 22.0 33.0





#15

Acrylonitrile

Concen: 105.882 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

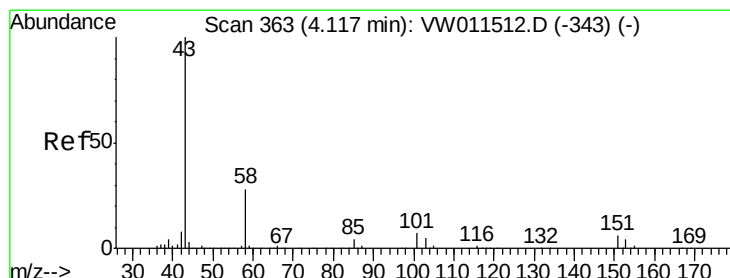
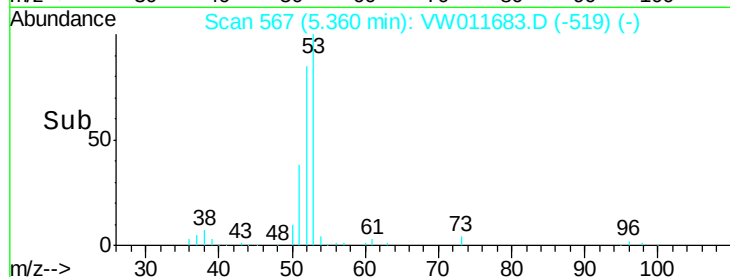
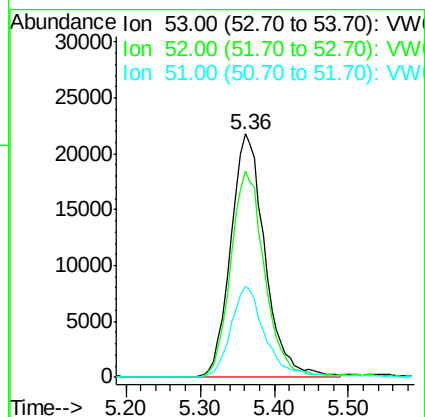
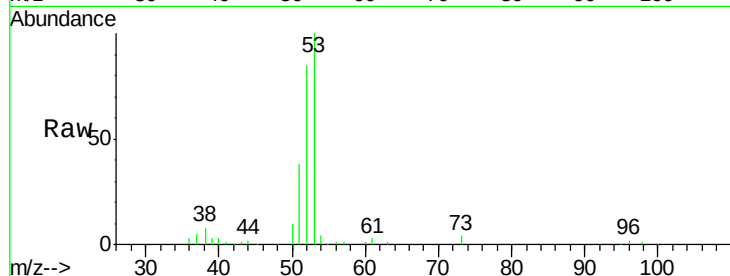
MSVOA\_W

ClientSampleId :

VW0804SBSD02

Tot Ion: 53 Resp: 70397

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 83.2  | 67.2  | 100.8 |
| 51  | 37.2  | 30.0  | 45.0  |



#16

Acetone

Concen: 78.262 ug/l

RT: 4.12 min Scan# 363

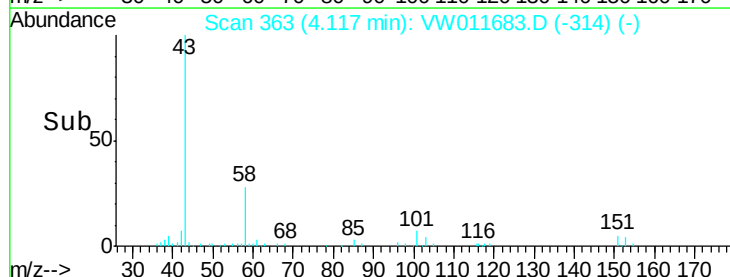
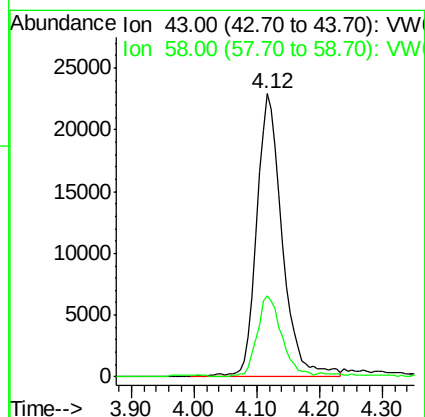
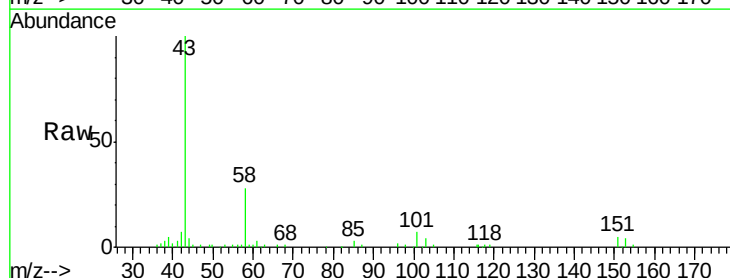
Delta R.T. -0.00 min

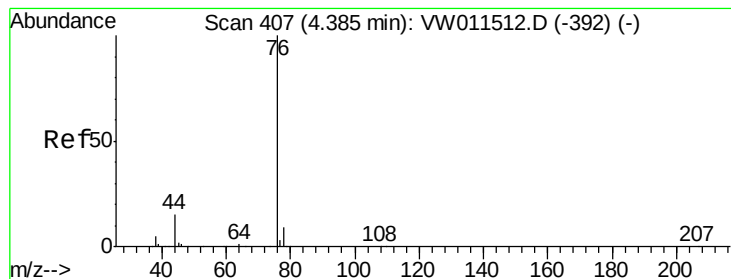
Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Tgt Ion: 43 Resp: 64581

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 27.8  | 22.3  | 33.5  |





#17

Carbon Disulfide

Concen: 20.081 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

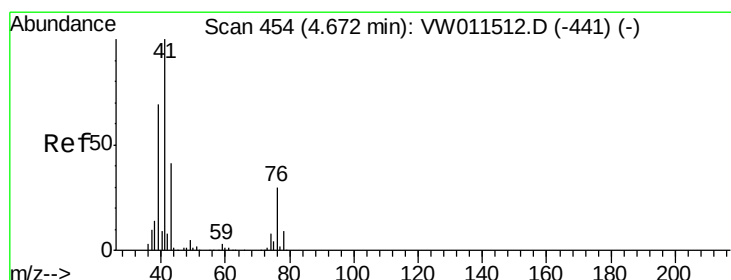
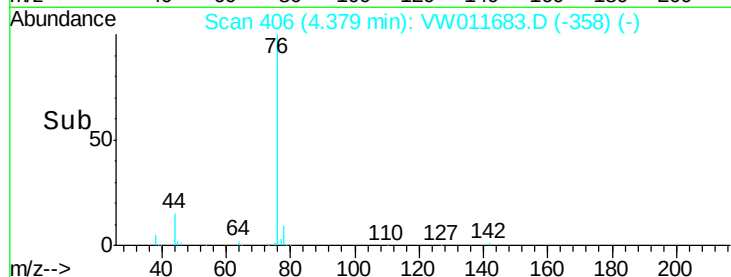
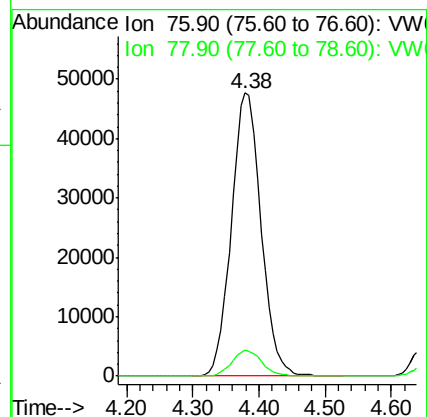
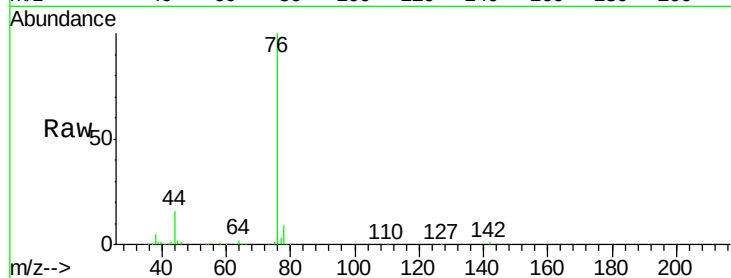
VW0804SBSD02

Tot Ion: 76 Resp: 147878

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



#18

Methyl Acetate

Concen: 29.719 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW011683.D

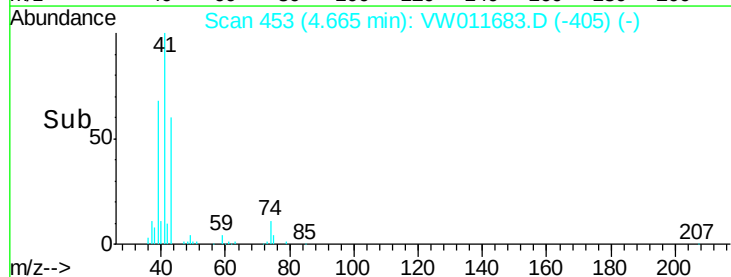
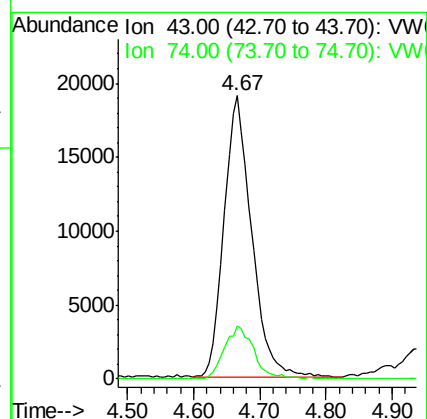
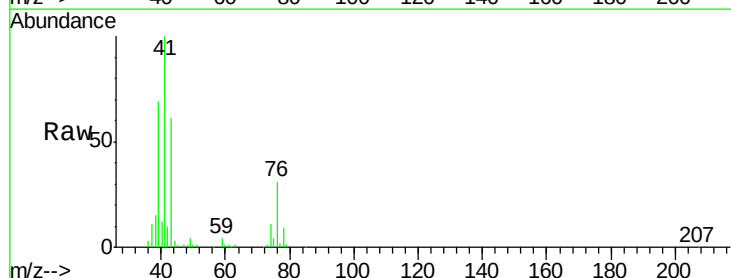
Acq: 04 Aug 2019 00:47

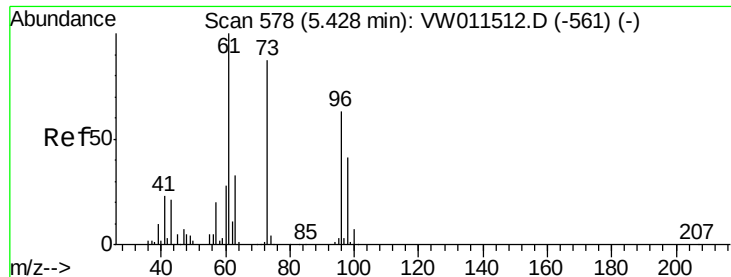
Tgt Ion: 43 Resp: 55092

Ion Ratio Lower Upper

43 100

74 19.6 15.9 23.9

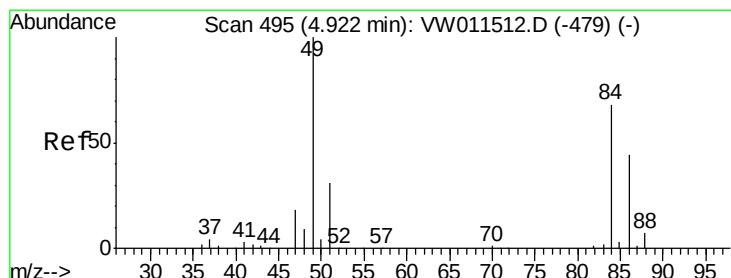
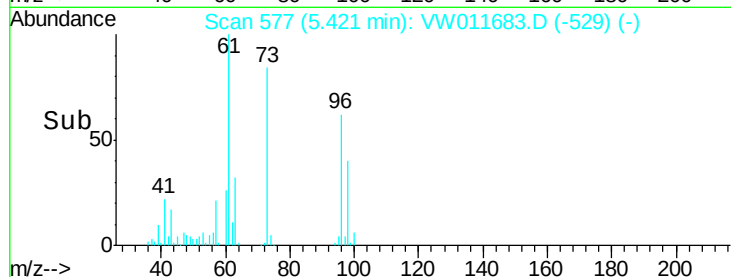
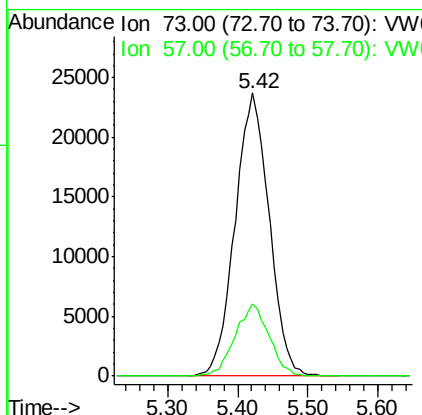
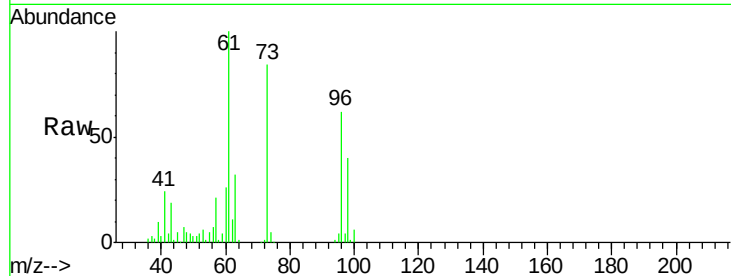




#19  
Methyl tert-butyl Ether  
Concen: 21.499 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

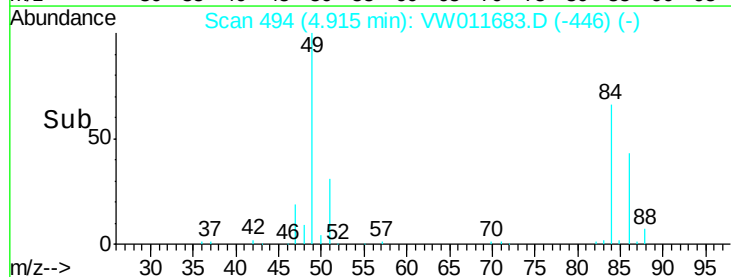
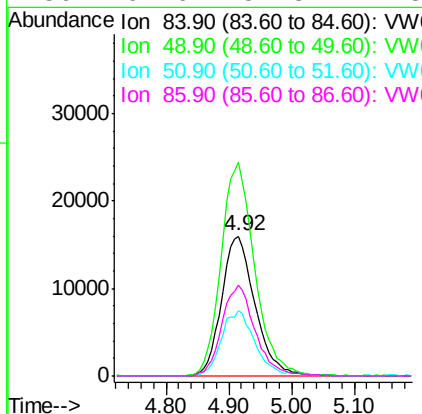
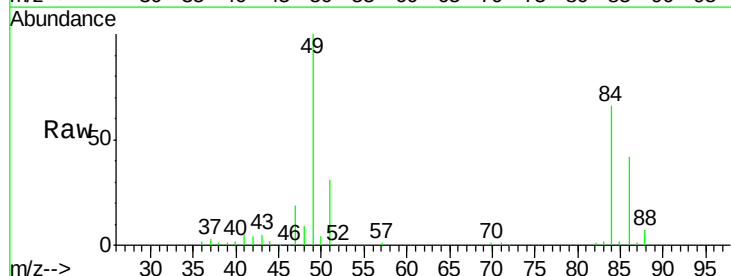
Instrument :  
MSVOA\_W  
ClientSampleID :  
VW0804SBSD02

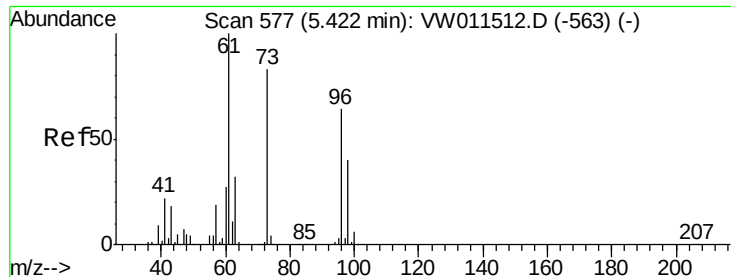
Tot Ion: 73 Resp: 80270  
Ion Ratio Lower Upper  
73 100  
57 25.4 18.4 27.6



#20  
Methylene Chloride  
Concen: 20.767 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 84 Resp: 59101  
Ion Ratio Lower Upper  
84 100  
49 152.2 117.8 176.6  
51 46.8 37.0 55.4  
86 64.6 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 21.103 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

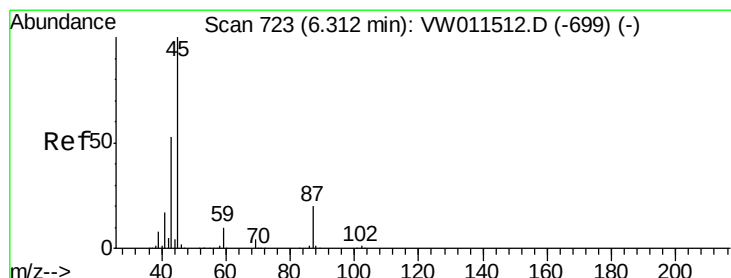
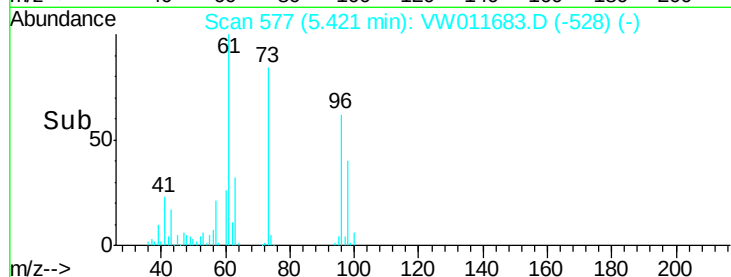
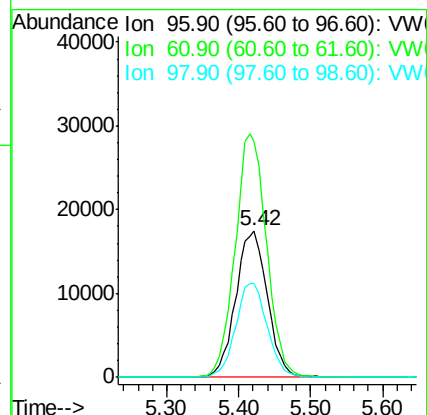
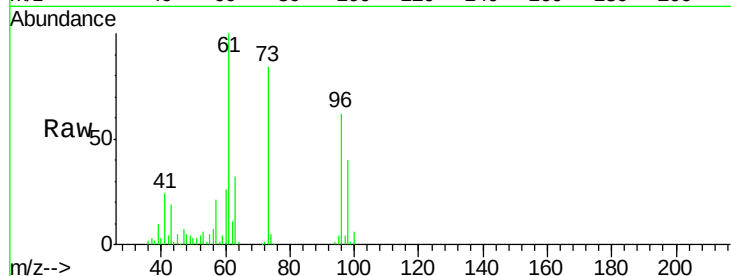
Tot Ion: 96 Resp: 53530

Ion Ratio Lower Upper

96 100

61 160.8 125.7 188.5

98 64.3 50.3 75.5



#22

Diisopropyl ether

Concen: 21.373 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Tgt Ion: 45 Resp: 201645

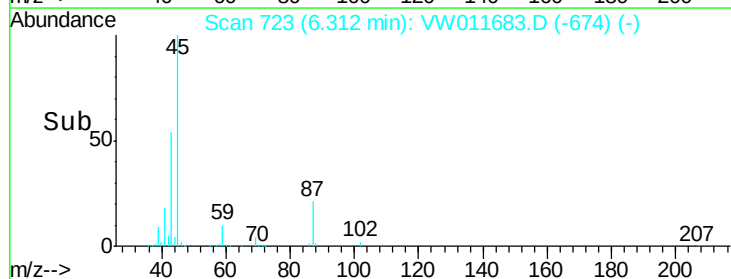
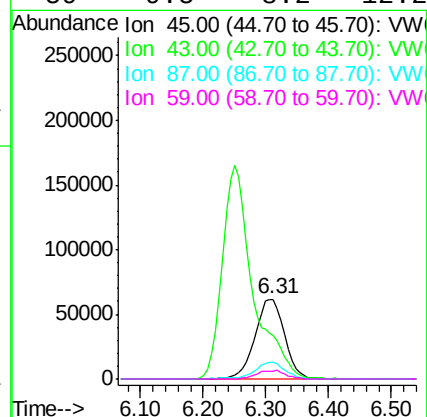
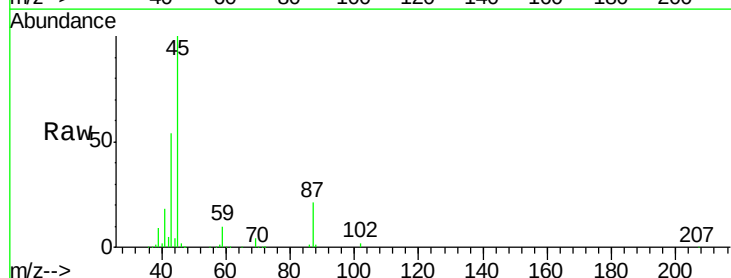
Ion Ratio Lower Upper

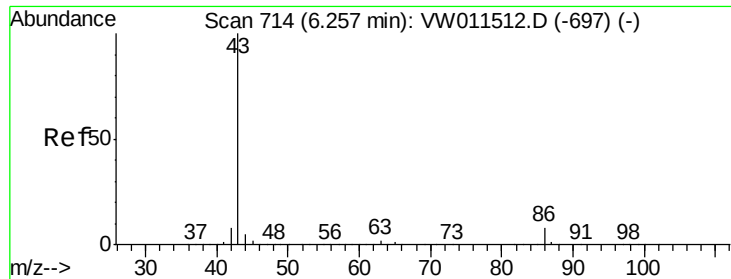
45 100

43 53.6 42.6 63.8

87 21.3 16.4 24.6

59 9.5 8.2 12.2





#23

Vinyl Acetate

Concen: 93.493 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

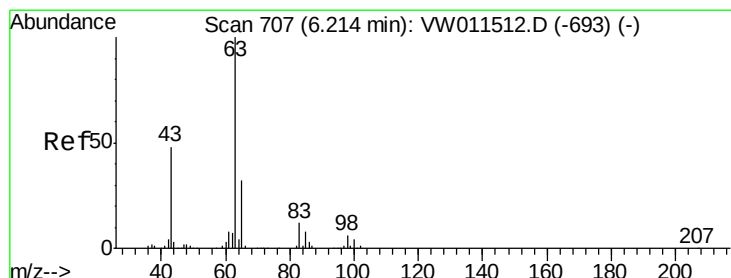
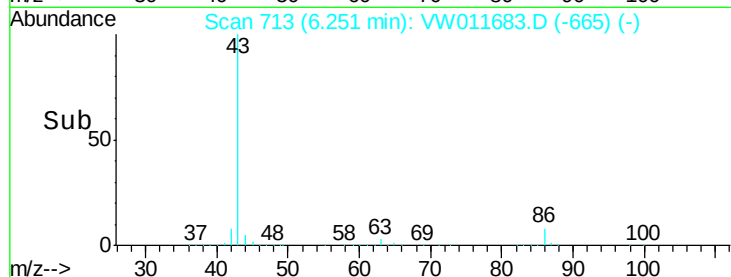
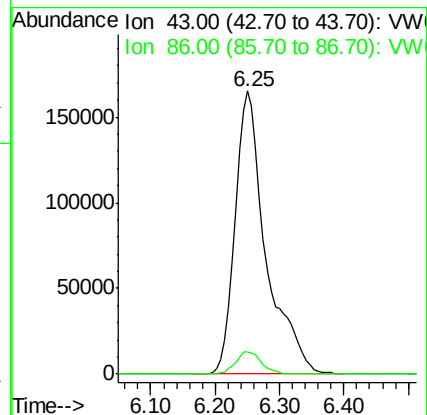
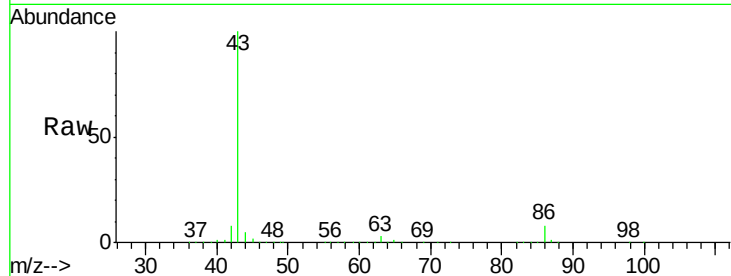
VW0804SBSD02

Tot Ion: 43 Resp: 554262

Ion Ratio Lower Upper

43 100

86 8.0 6.5 9.7



#24

1,1-Dichloroethane

Concen: 21.601 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

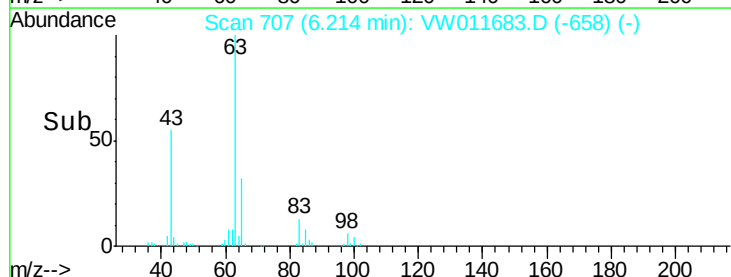
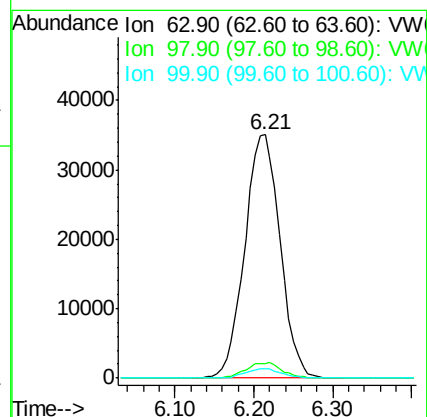
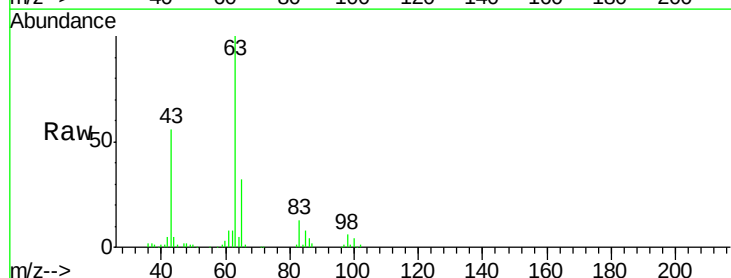
Tgt Ion: 63 Resp: 109148

Ion Ratio Lower Upper

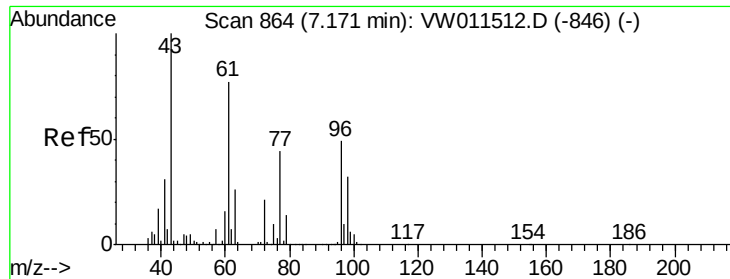
63 100

98 6.1 2.9 8.8

100 3.9 2.1 6.3







#25

2-Butanone

Concen: 93.935 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

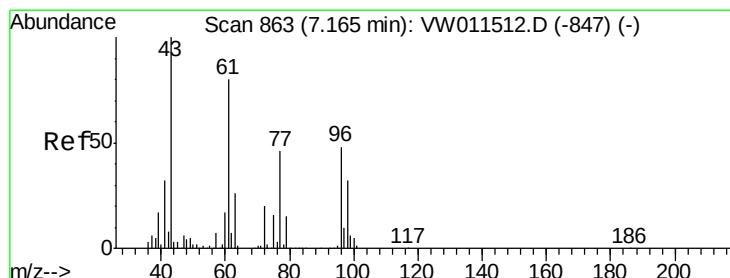
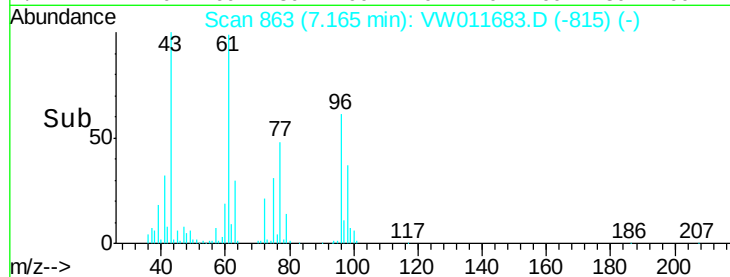
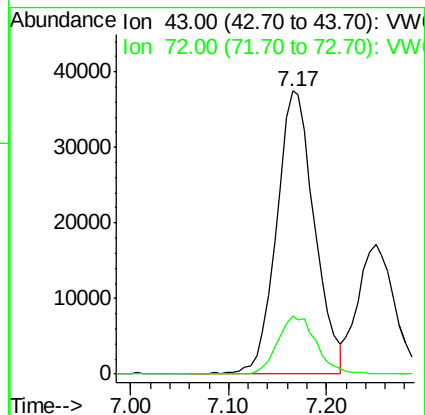
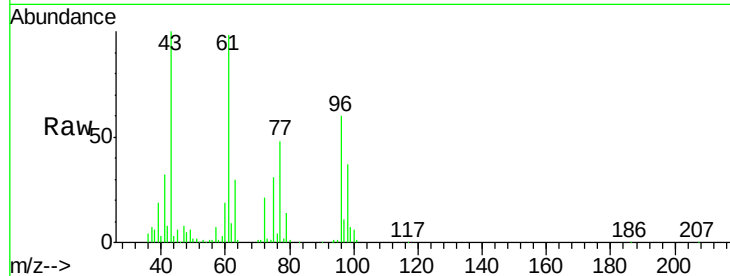
VW0804SBSD02

Tot Ion: 43 Resp: 101429

Ion Ratio Lower Upper

43 100

72 20.6 16.6 24.8



#26

2,2-Dichloropropane

Concen: 17.647 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011683.D

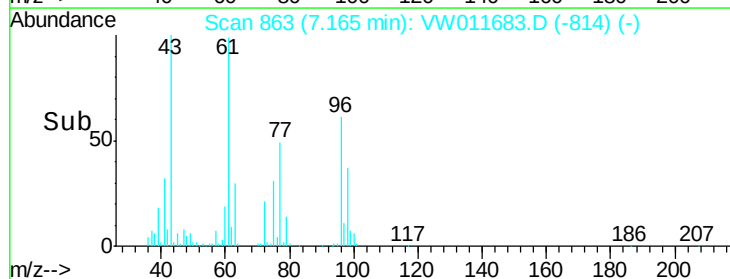
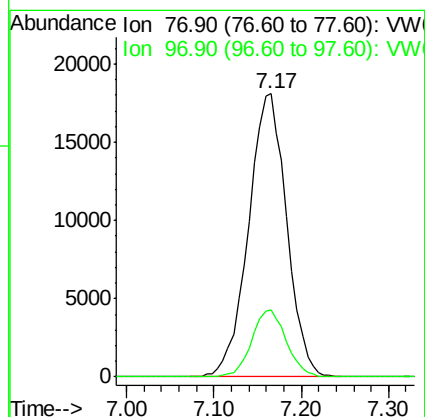
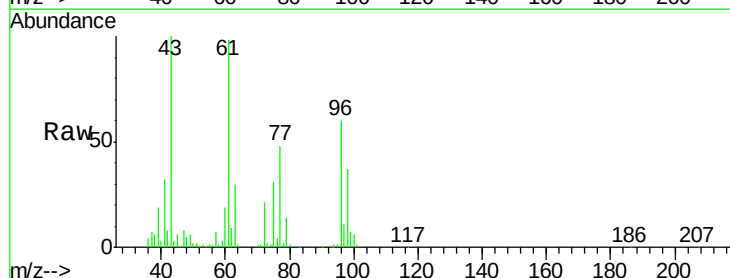
Acq: 04 Aug 2019 00:47

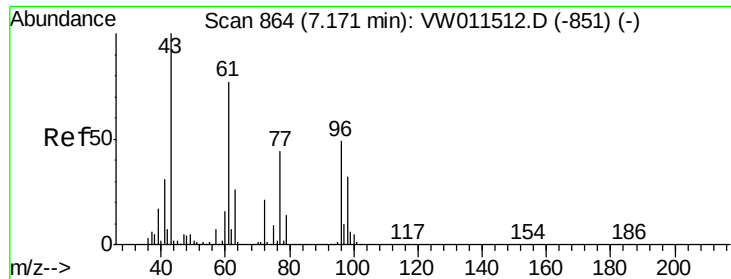
Tgt Ion: 77 Resp: 54839

Ion Ratio Lower Upper

77 100

97 21.4 10.8 32.4

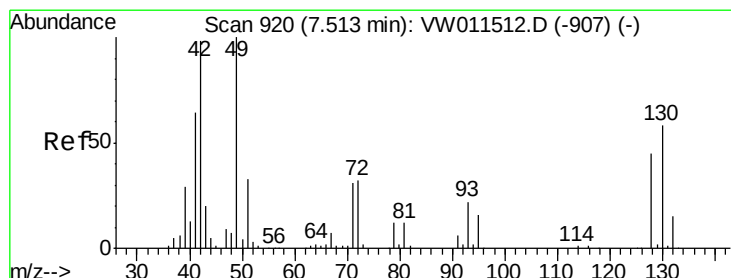
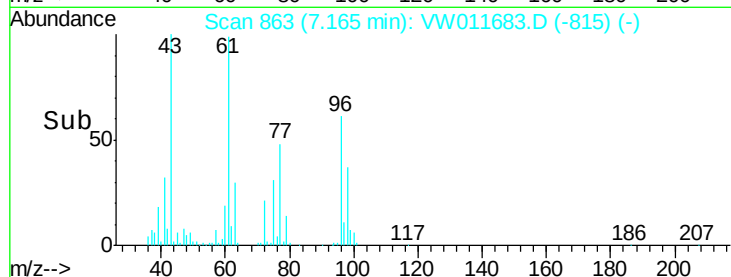
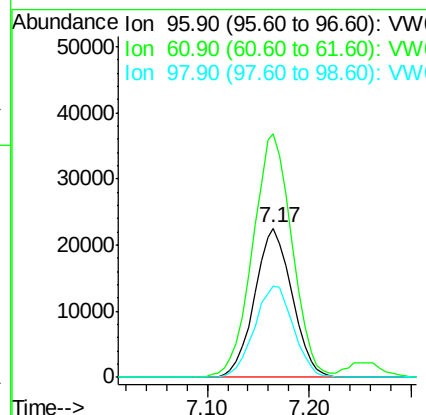
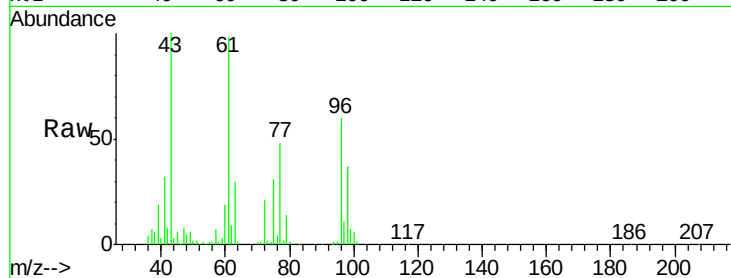




#27  
 cis-1,2-Dichloroethene  
 Concen: 20.649 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

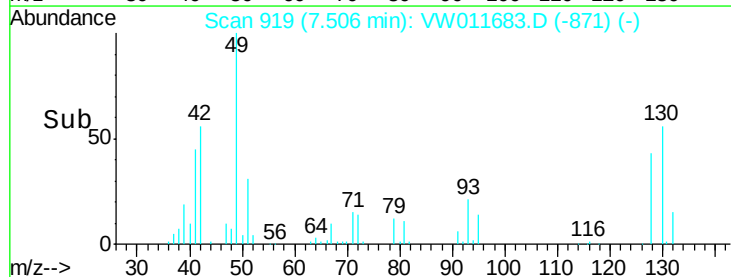
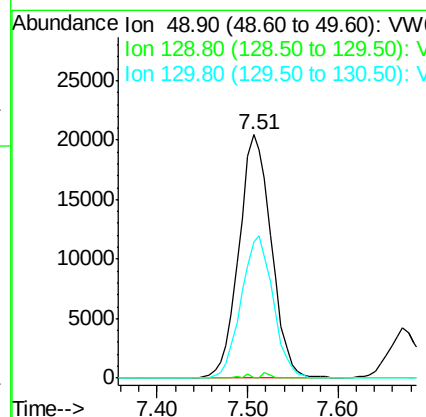
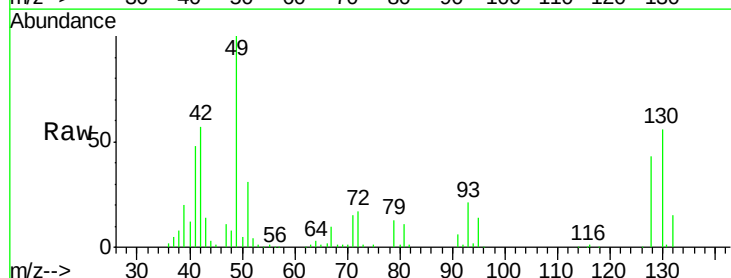
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

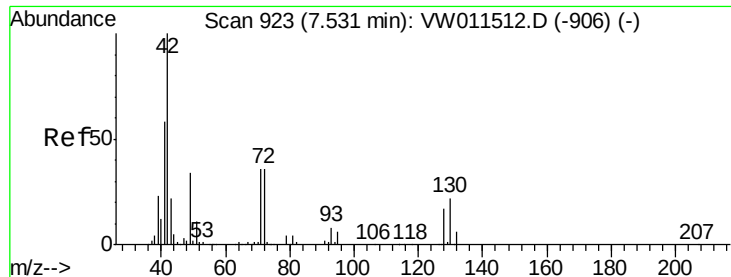
Tot Ion: 96 Resp: 57647  
 Ion Ratio Lower Upper  
 96 100  
 61 170.9 0.0 328.4  
 98 63.8 0.0 128.8



#28  
 Bromochloromethane  
 Concen: 22.578 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 49 Resp: 50638  
 Ion Ratio Lower Upper  
 49 100  
 129 0.5 0.0 1.0  
 130 57.3 46.3 69.5

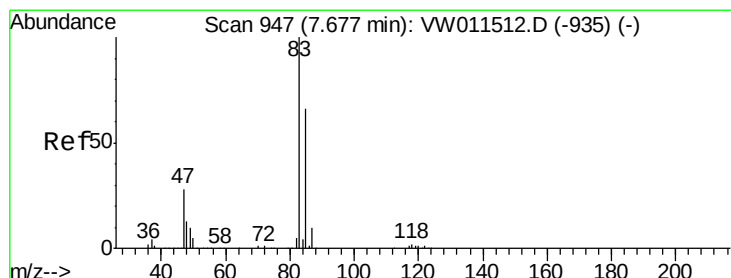
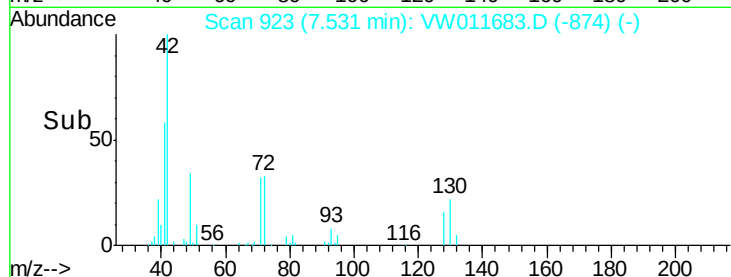
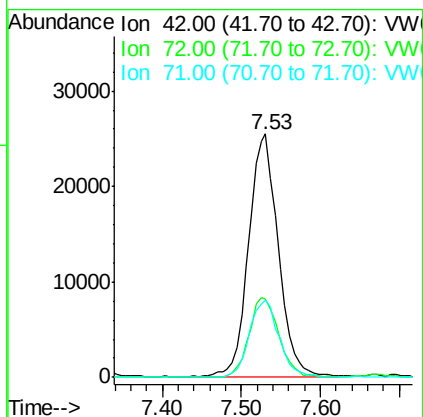
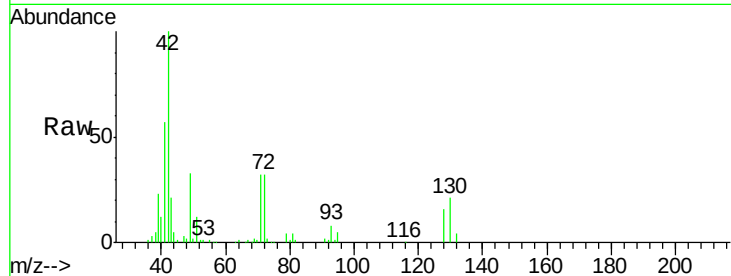




#29  
Tetrahydrofuran  
Concen: 107.344 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

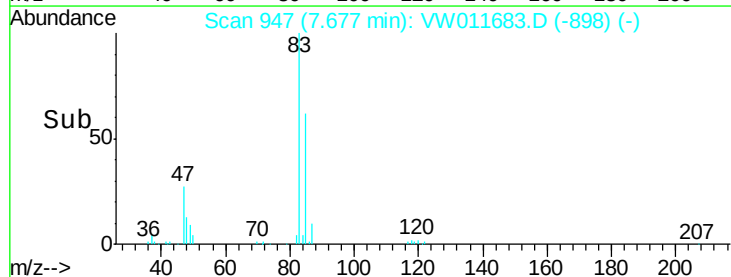
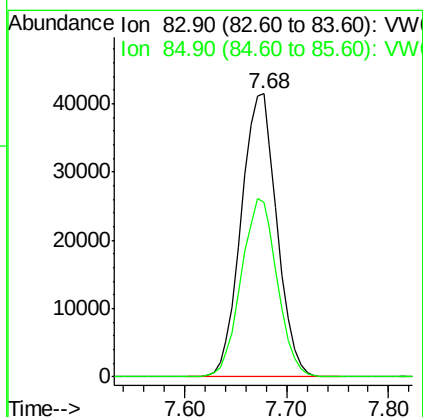
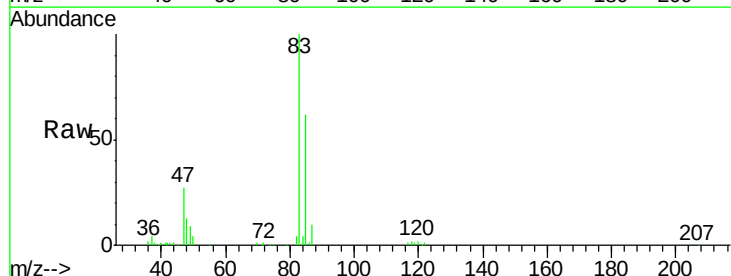
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

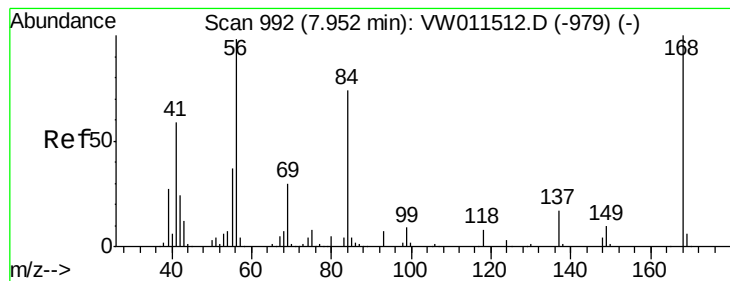
Tot Ion: 42 Resp: 66254  
Ion Ratio Lower Upper  
42 100  
72 33.5 27.1 40.7  
71 32.1 26.2 39.4



#30  
Chloroform  
Concen: 21.665 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 83 Resp: 100995  
Ion Ratio Lower Upper  
83 100  
85 61.7 52.5 78.7





#31

Cyclohexane

Concen: 20.183 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

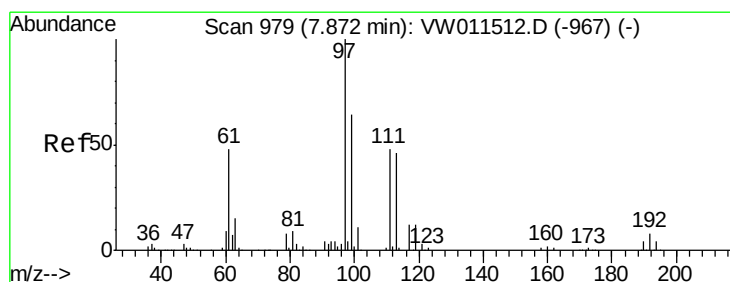
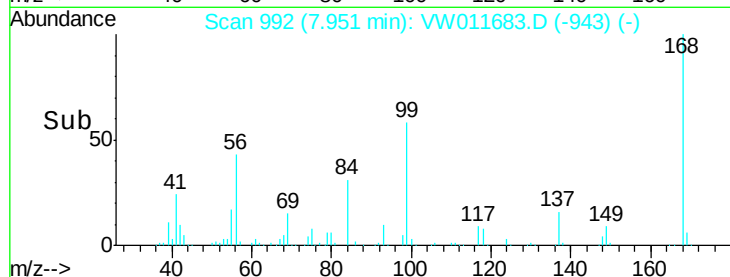
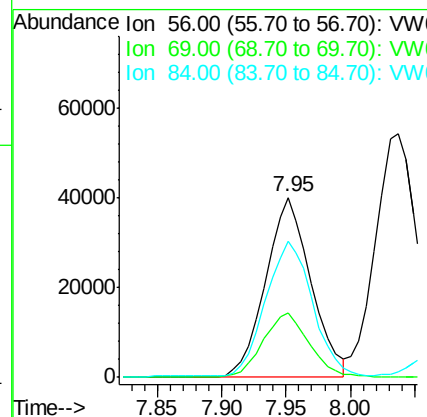
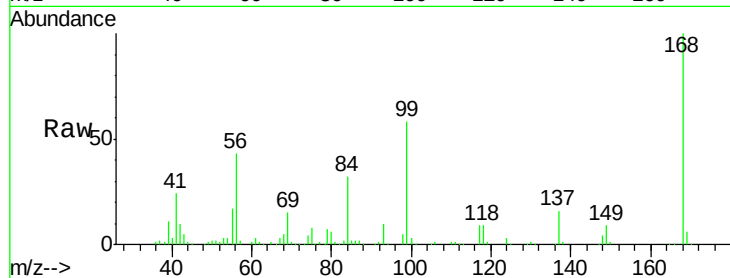
Tot Ion: 56 Resp: 97895

Ion Ratio Lower Upper

56 100

69 35.7 24.3 36.5

84 74.4 60.4 90.6



#32

1,1,1-Trichloroethane

Concen: 21.656 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

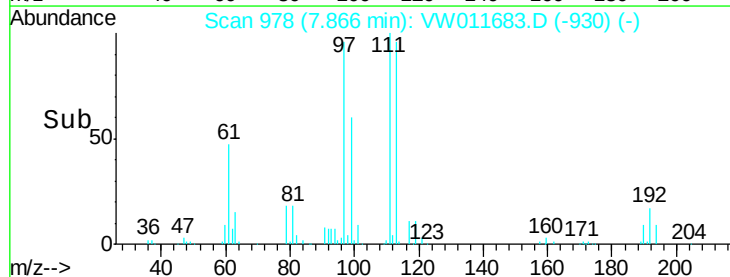
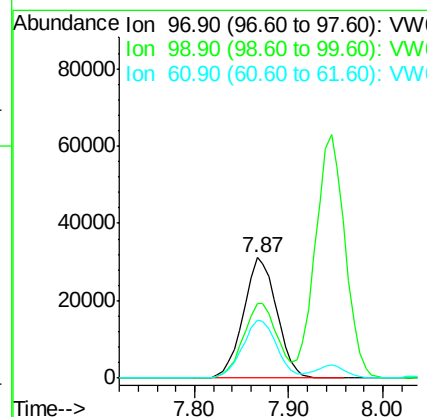
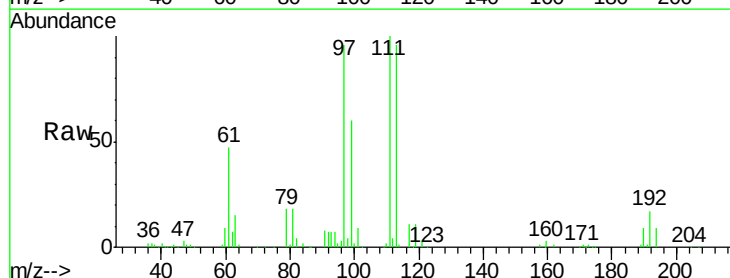
Tgt Ion: 97 Resp: 76882

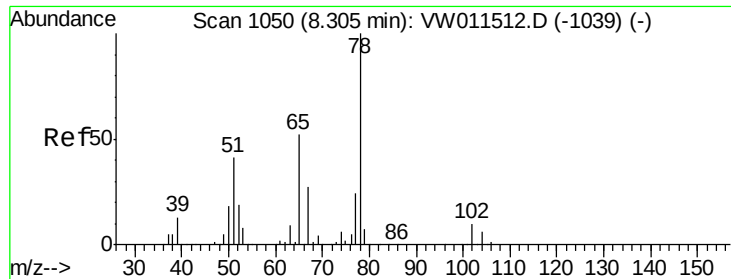
Ion Ratio Lower Upper

97 100

99 63.0 51.0 76.6

61 49.4 39.8 59.6

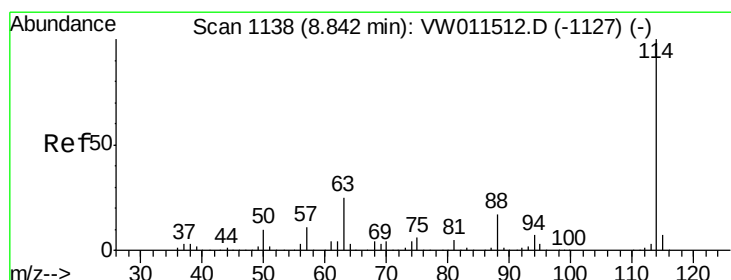
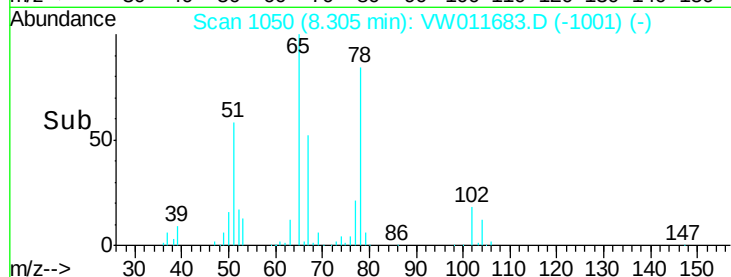
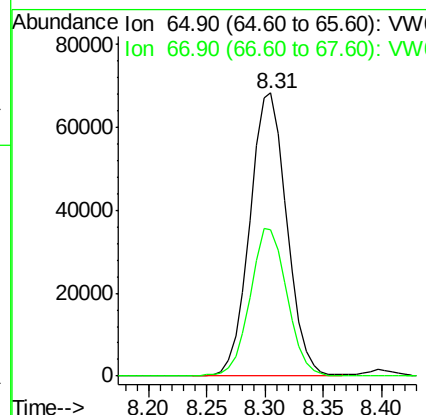
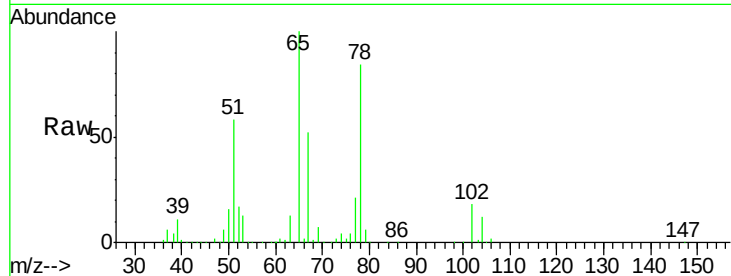




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.396 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

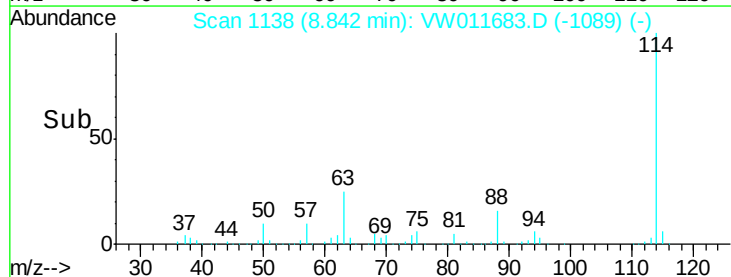
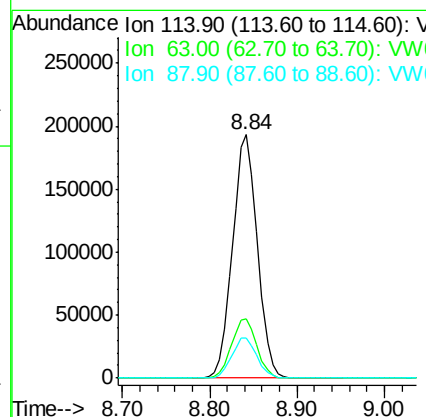
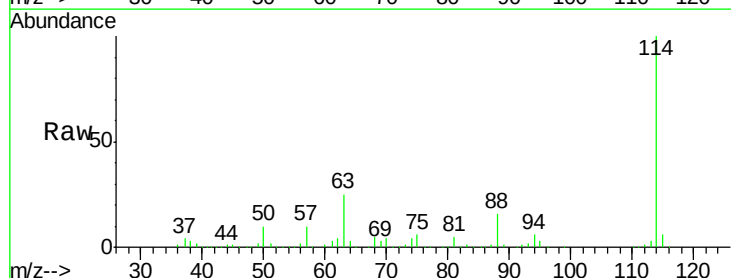
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

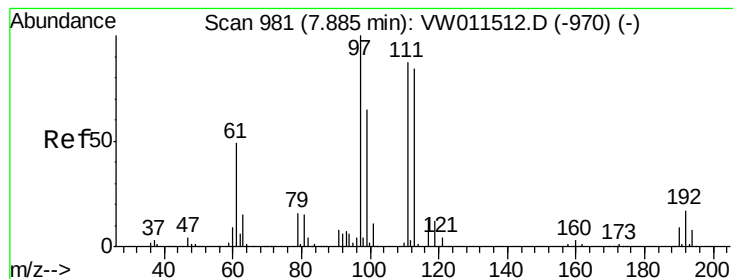
Tot Ion: 65 Resp: 151487  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 114 Resp: 380673  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 49.2  
 88 16.3 0.0 33.8





#35

Dibromofluoromethane

Concen: 56.111 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampled :

VW0804SBSD02

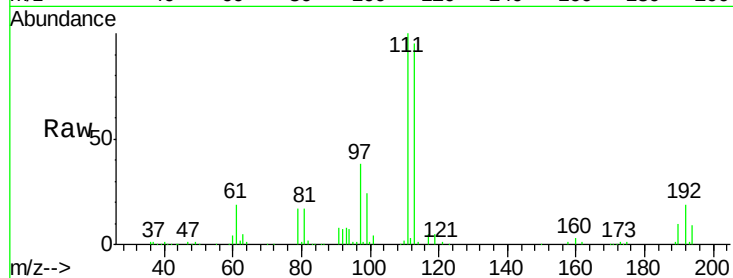
Tot Ion:113 Resp: 119834

Ion Ratio Lower Upper

113 100

111 104.4 82.7 124.1

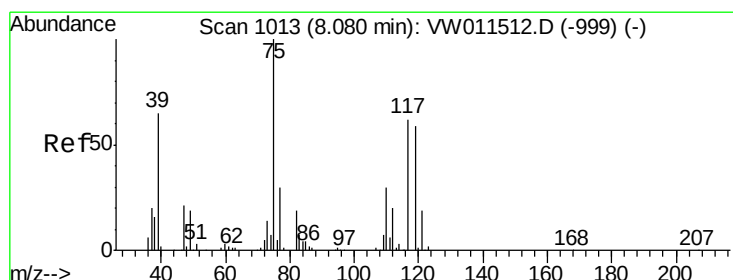
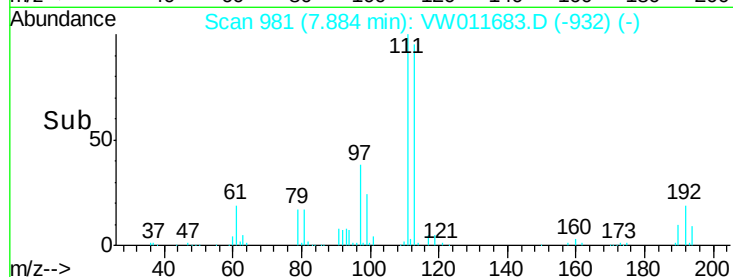
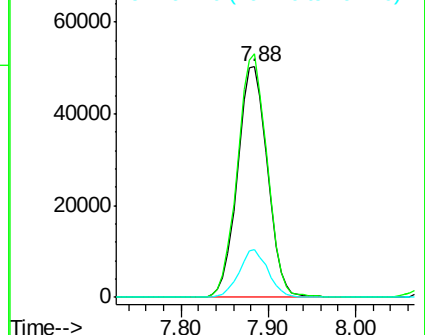
192 20.0 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 20.148 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

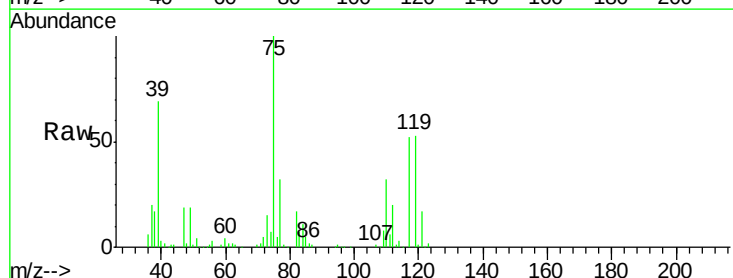
Tgt Ion: 75 Resp: 79750

Ion Ratio Lower Upper

75 100

110 31.5 15.6 46.8

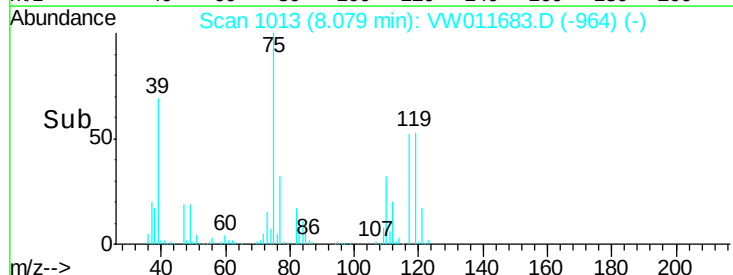
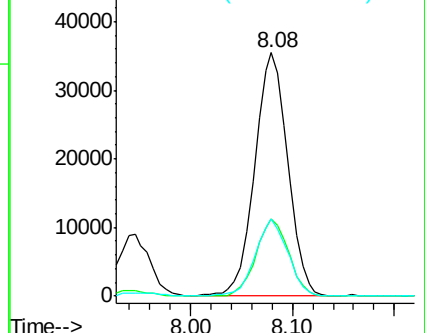
77 31.3 24.3 36.5

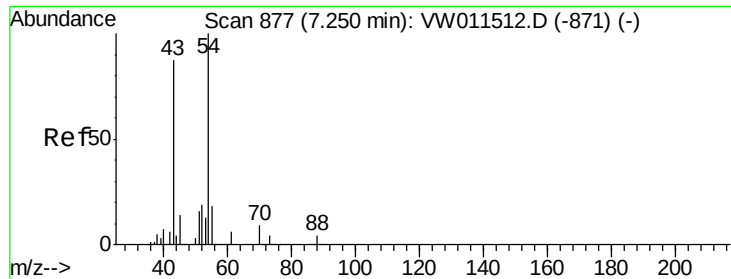


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

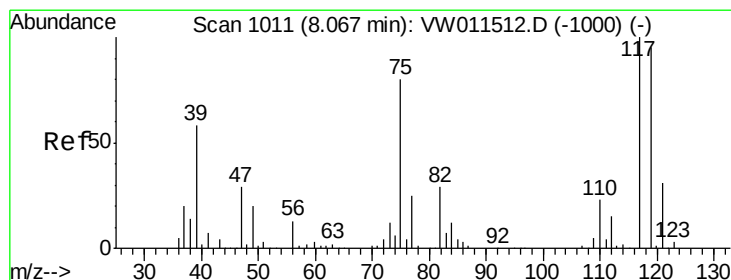
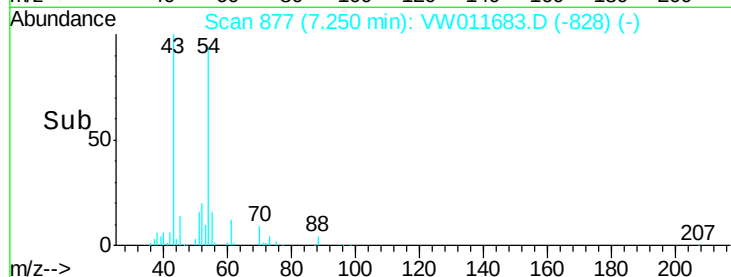
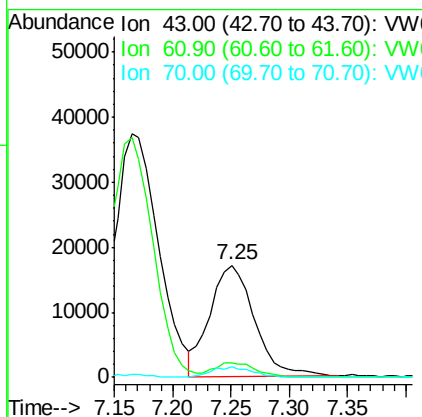
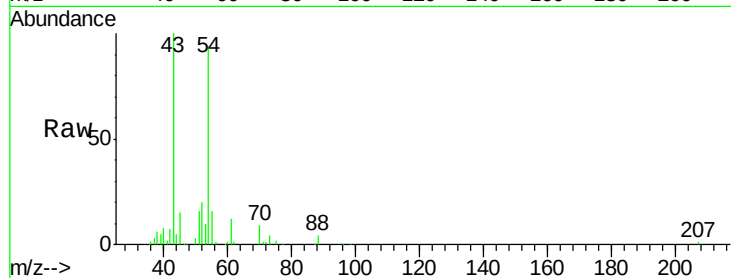




#37  
Ethyl Acetate  
Concen: 19.844 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

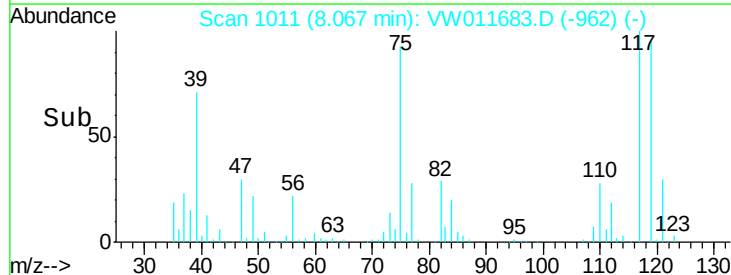
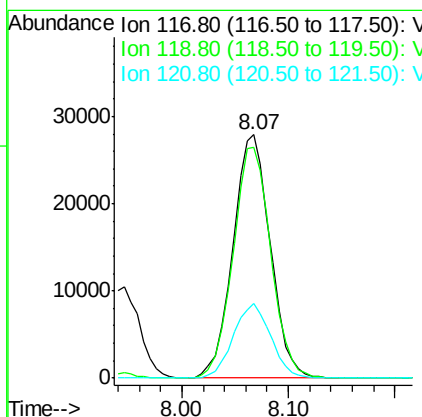
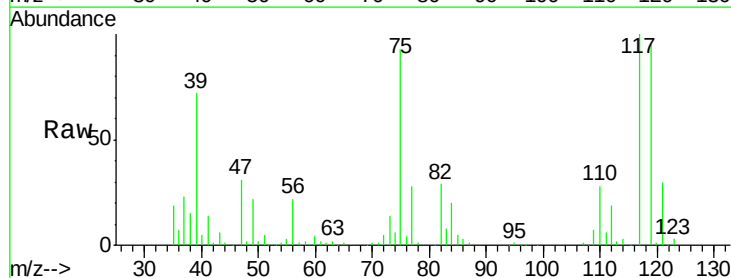
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

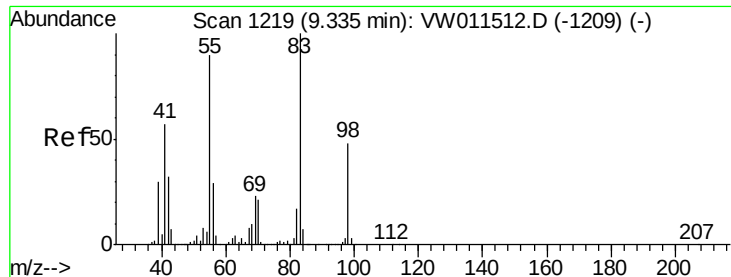
Tot Ion: 43 Resp: 45192  
Ion Ratio Lower Upper  
43 100  
61 13.2 8.8 13.2#  
70 8.9 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 20.229 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 117 Resp: 68547  
Ion Ratio Lower Upper  
117 100  
119 95.1 75.8 113.6  
121 30.5 24.7 37.1

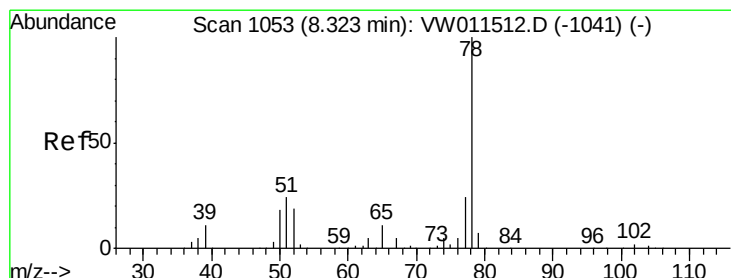
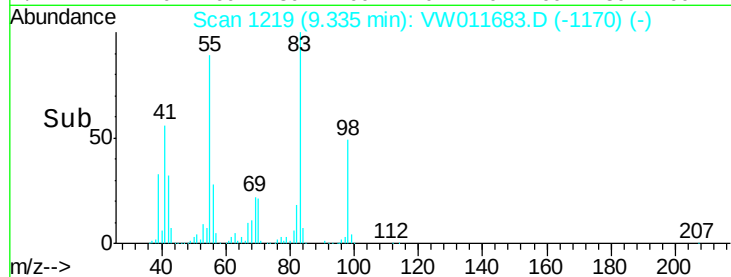
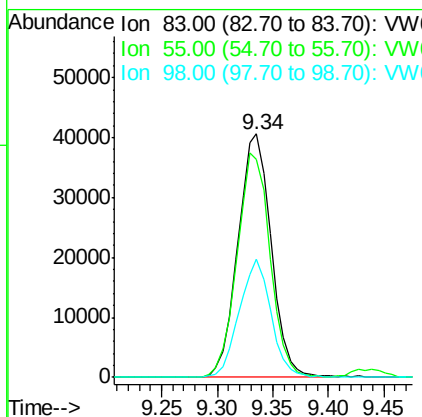
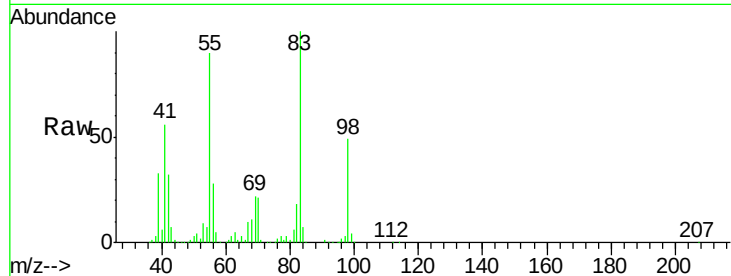




#39  
Methylvlcyclohexane  
Concen: 19.322 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

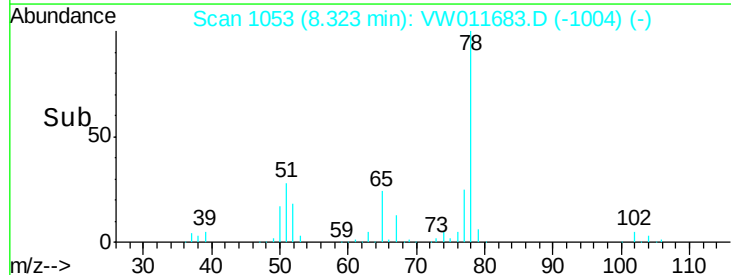
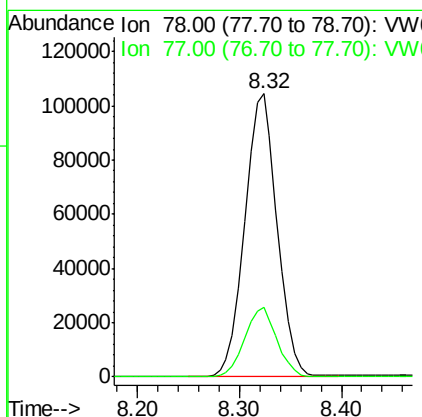
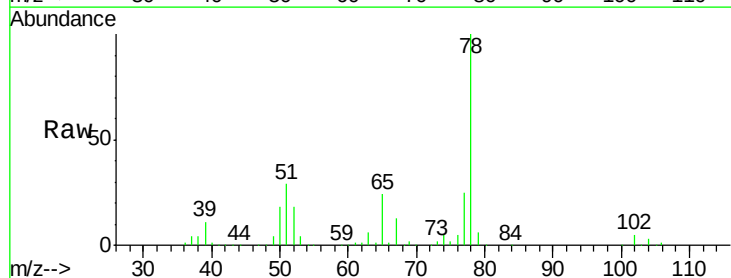
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

Tot Ion: 83 Resp: 84216  
Ion Ratio Lower Upper  
83 100  
55 89.6 72.1 108.1  
98 48.7 38.6 57.8

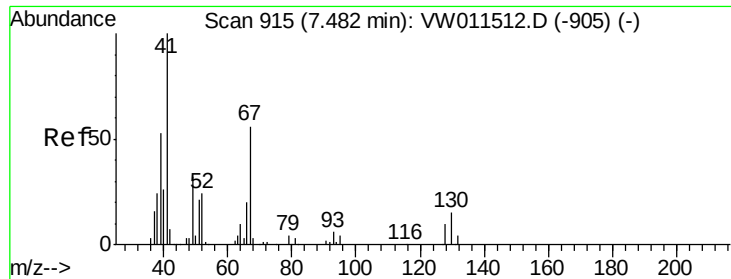


#40  
Benzene  
Concen: 20.818 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 78 Resp: 230813  
Ion Ratio Lower Upper  
78 100  
77 24.8 19.4 29.0



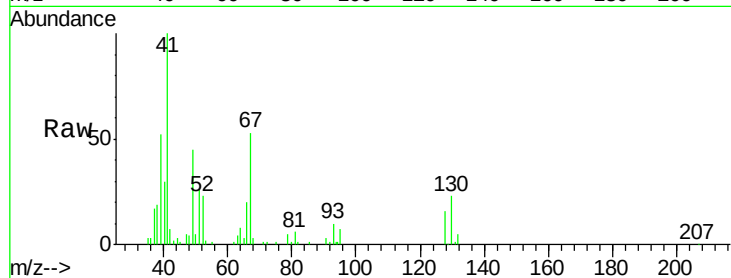




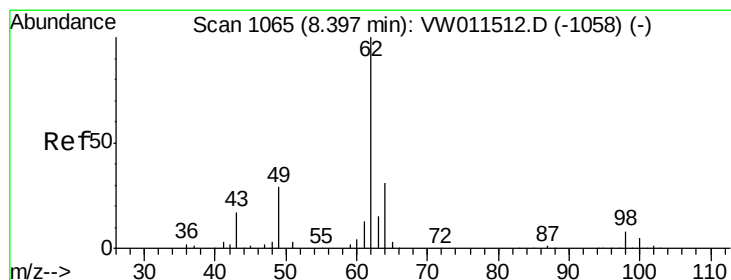
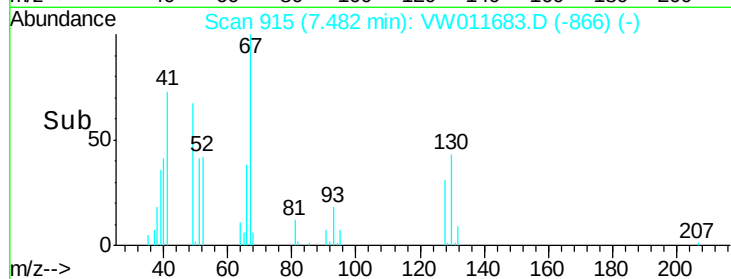
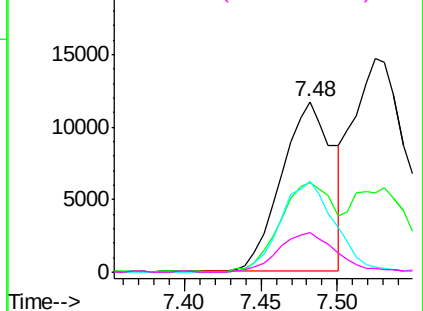
#41  
Methacrylonitrile  
Concen: 20.095 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

| Tot Ion: | 41    | Resp: | 27356 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.7  | 43.0  | 64.4  |
| 67       | 57.2  | 47.5  | 71.3  |
| 52       | 26.7  | 21.0  | 31.6  |

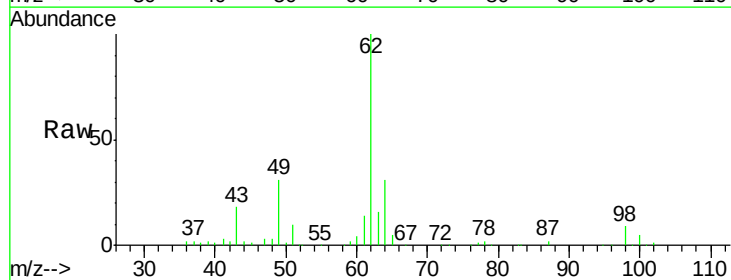


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

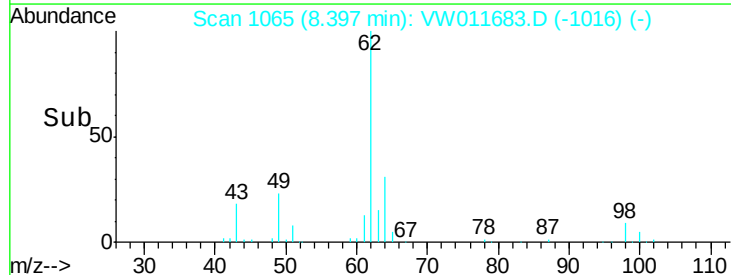
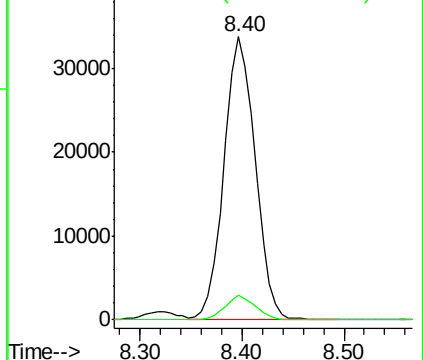


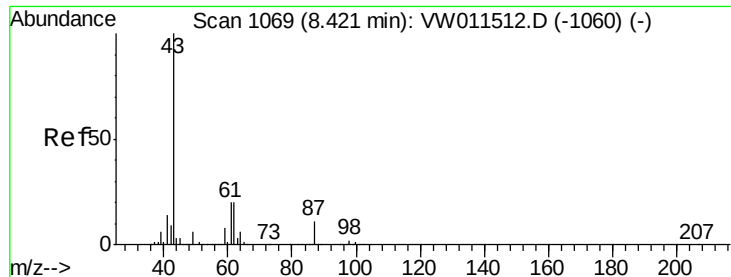
#42  
1,2-Dichloroethane  
Concen: 20.716 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

| Tgt Ion: | 62    | Resp: | 71911 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.4   | 0.0   | 16.8  |



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





#43

Isopropyl Acetate

Concen: 19.724 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

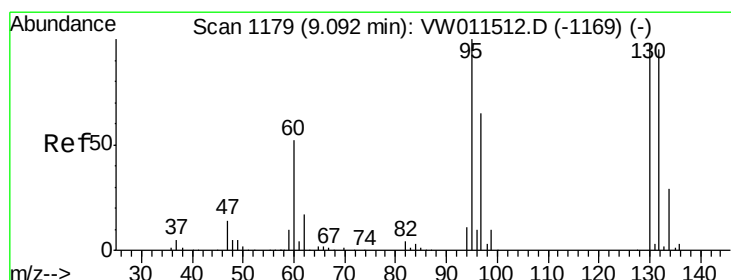
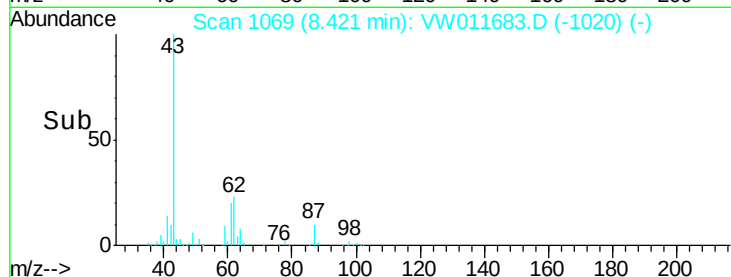
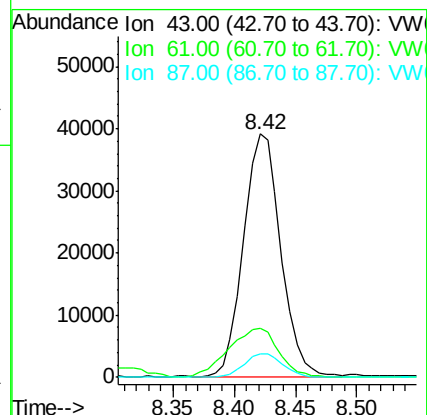
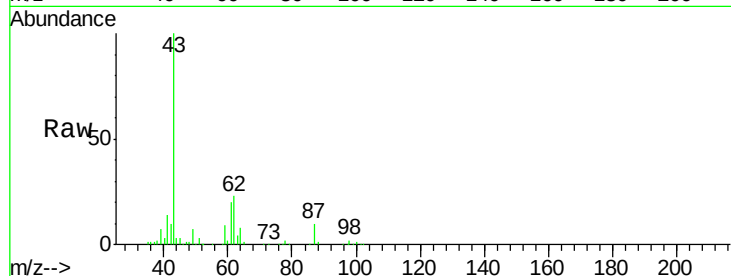
Tot Ion: 43 Resp: 82606

Ion Ratio Lower Upper

43 100

61 26.5 21.5 32.3

87 10.0 8.4 12.6



#44

Trichloroethene

Concen: 20.293 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011683.D

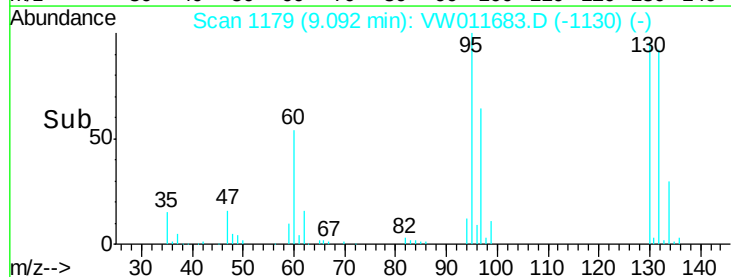
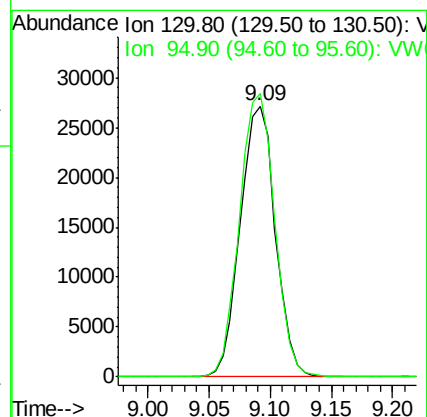
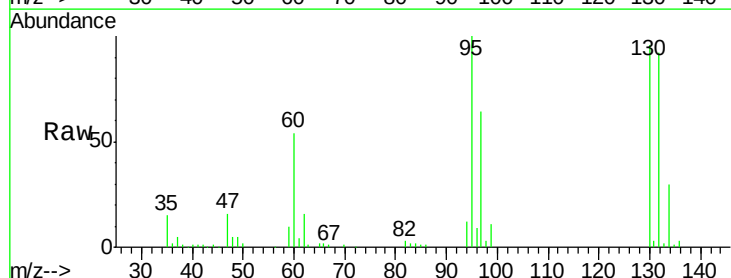
Acq: 04 Aug 2019 00:47

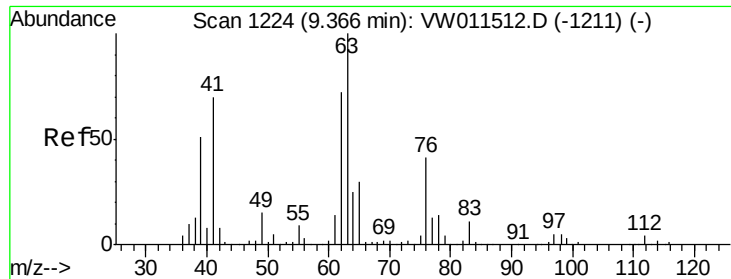
Tgt Ion: 130 Resp: 54078

Ion Ratio Lower Upper

130 100

95 104.4 0.0 204.8

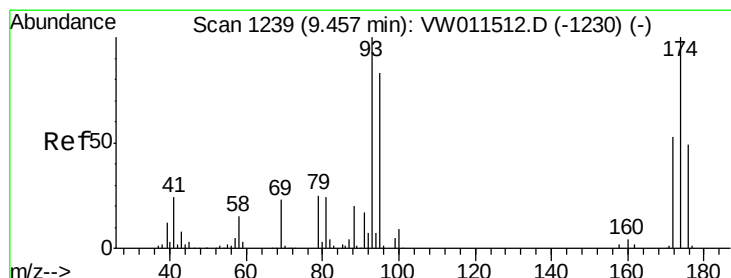
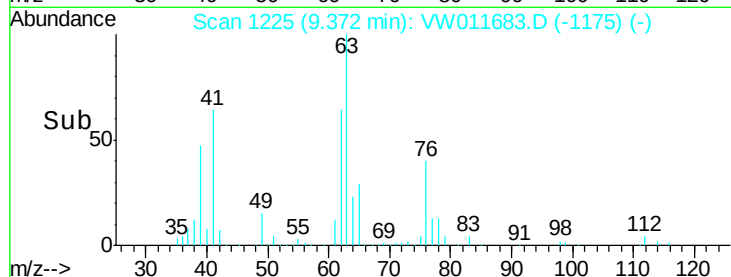
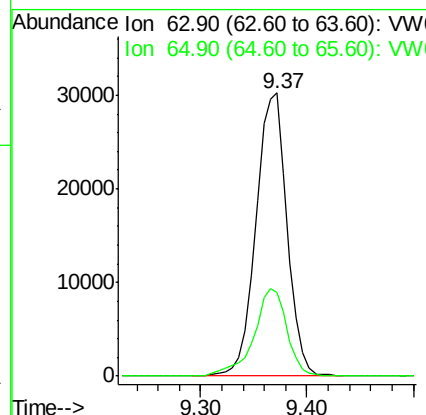
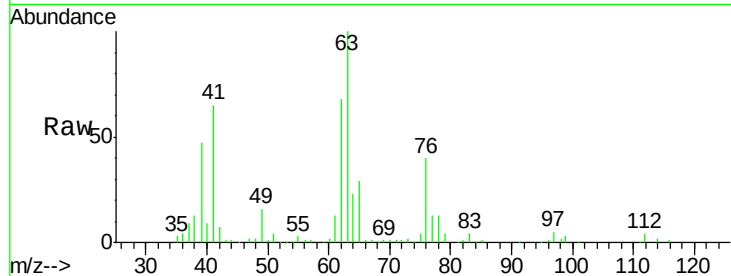




#45  
 1,2-Dichloropropane  
 Concen: 20.801 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

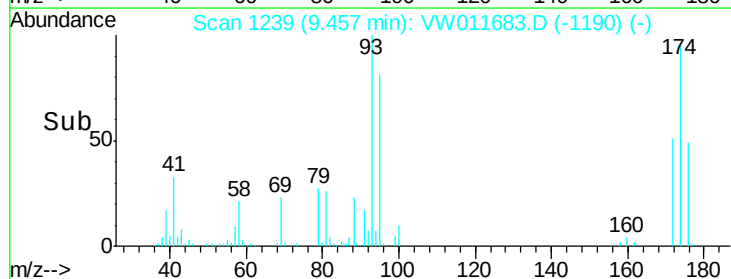
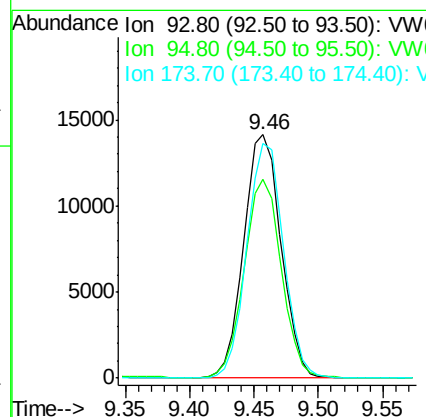
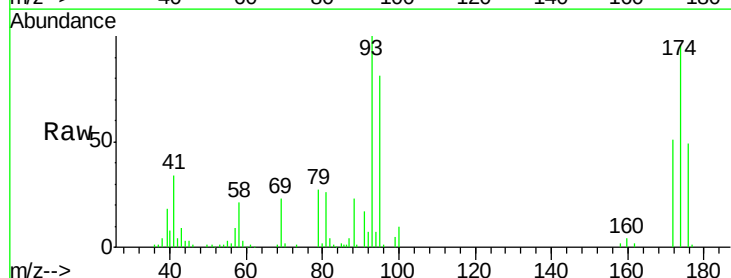
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

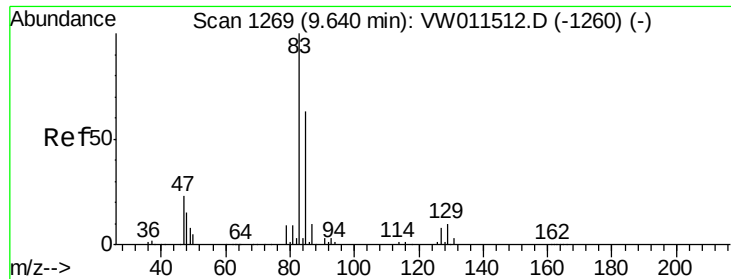
Tot Ion: 63 Resp: 61710  
 Ion Ratio Lower Upper  
 63 100  
 65 29.5 24.2 36.4



#46  
 Dibromomethane  
 Concen: 20.922 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 93 Resp: 28329  
 Ion Ratio Lower Upper  
 93 100  
 95 81.3 66.2 99.2  
 174 94.5 78.2 117.4





#47

Bromodichloromethane

Concen: 20.523 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

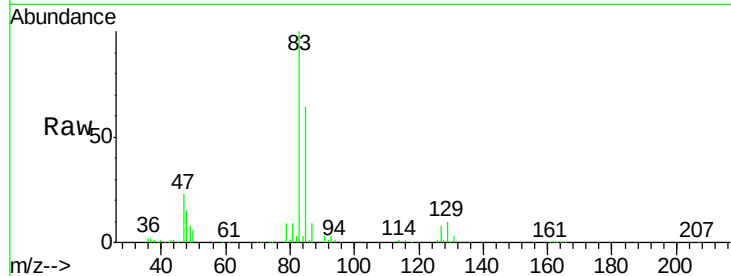
Tot Ion: 83 Resp: 72895

Ion Ratio Lower Upper

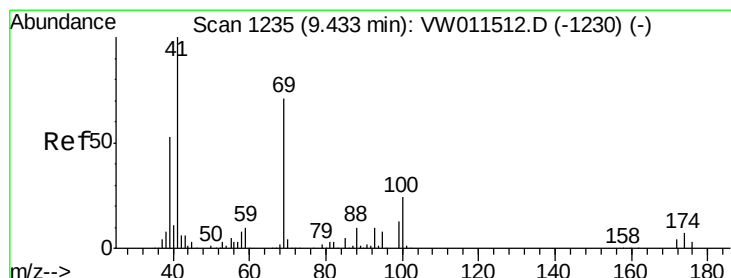
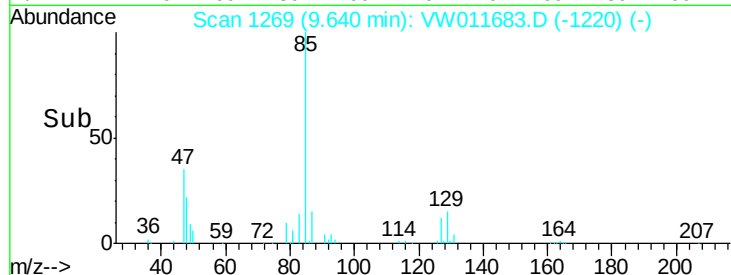
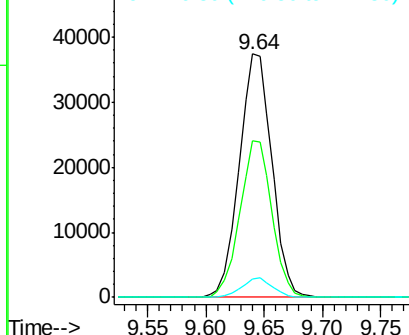
83 100

85 64.3 50.5 75.7

127 7.8 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): V



#48

Methyl methacrylate

Concen: 20.810 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

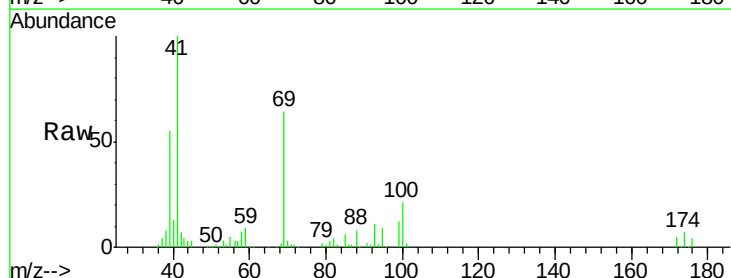
Tgt Ion: 41 Resp: 41867

Ion Ratio Lower Upper

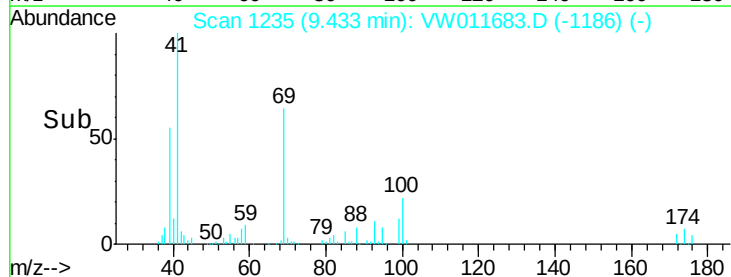
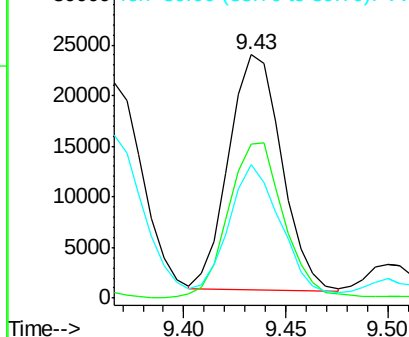
41 100

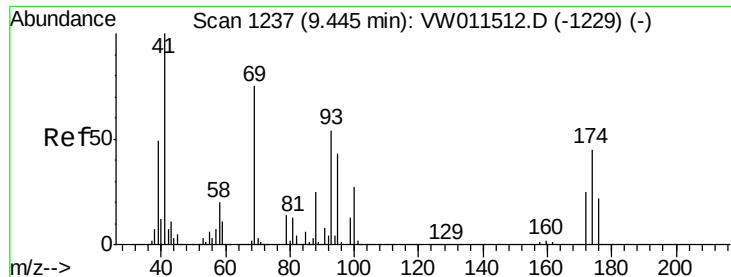
69 70.2 57.1 85.7

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

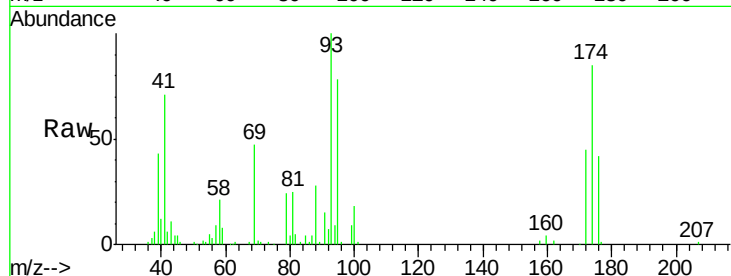




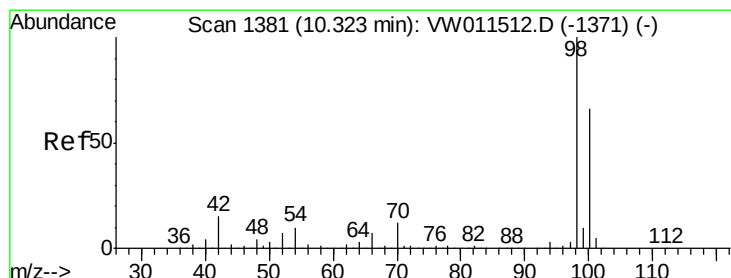
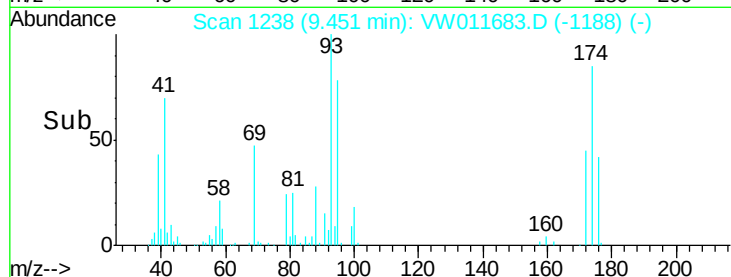
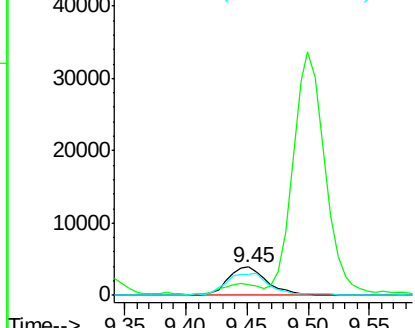
#49  
1,4-Dioxane  
Concen: 438.756 ug/l  
RT: 9.45 min Scan# 1238  
Delta R.T. 0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

Tot Ion: 88 Resp: 8602  
Ion Ratio Lower Upper  
88 100  
43 36.2 34.0 51.0  
58 90.5 69.7 104.5

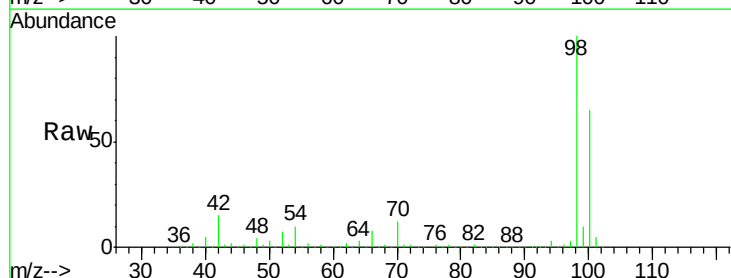


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

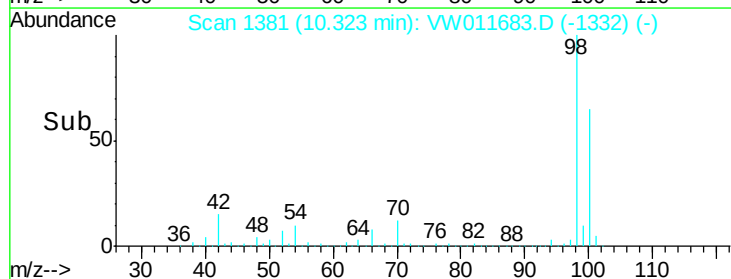
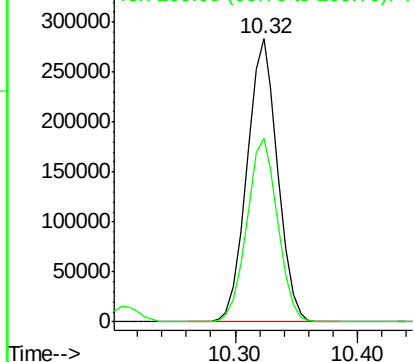


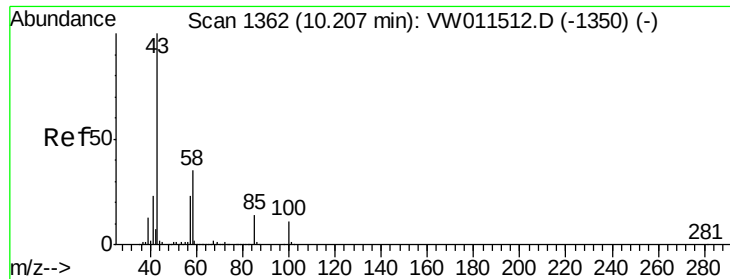
#50  
Toluene-d8  
Concen: 56.222 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 98 Resp: 491606  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.7 79.1



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

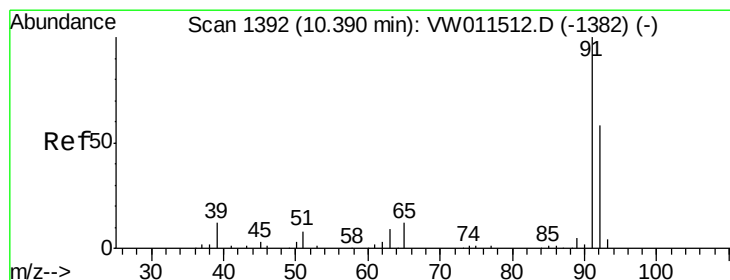
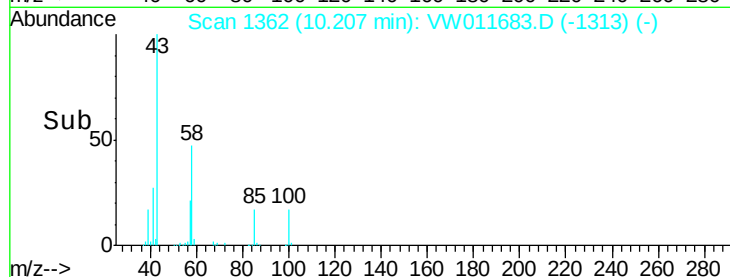
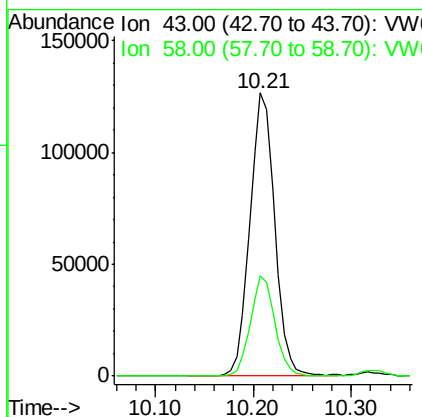
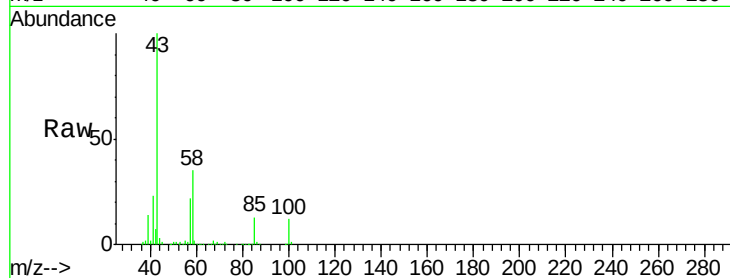




#51  
 4-Methyl-2-Pentanone  
 Concen: 102.218 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

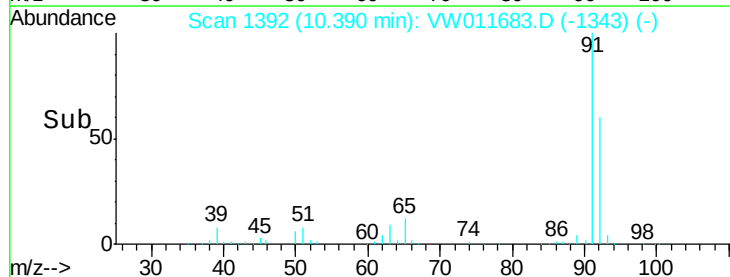
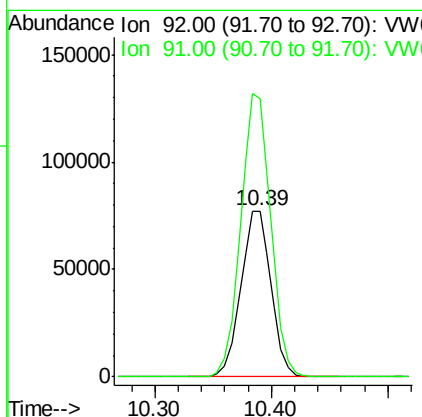
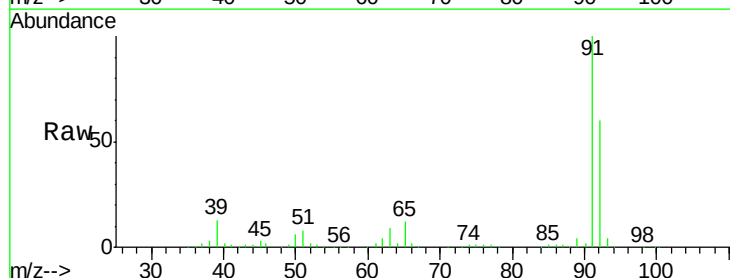
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

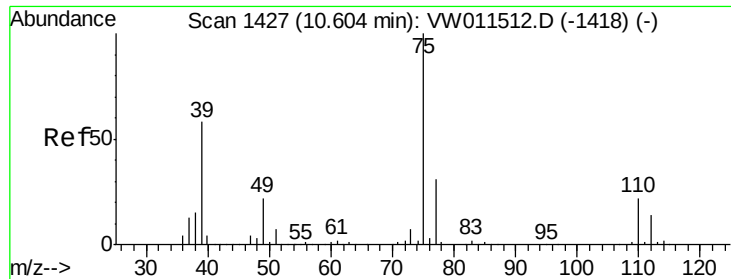
Tot Ion: 43 Resp: 222678  
 Ion Ratio Lower Upper  
 43 100  
 58 34.9 28.2 42.2



#52  
 Toluene  
 Concen: 20.735 ug/l  
 RT: 10.39 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 92 Resp: 138833  
 Ion Ratio Lower Upper  
 92 100  
 91 170.1 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 18.983 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

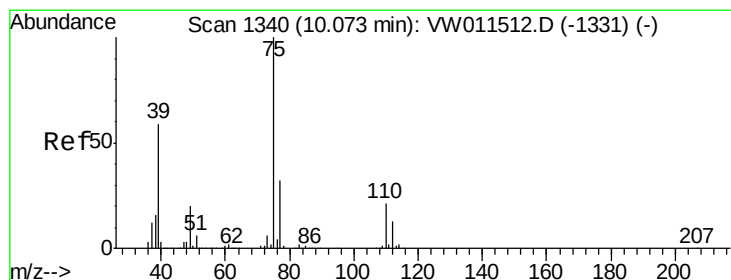
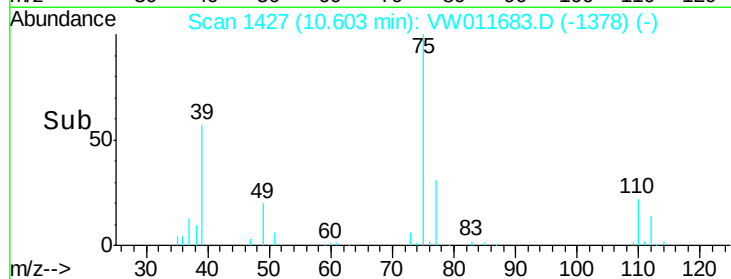
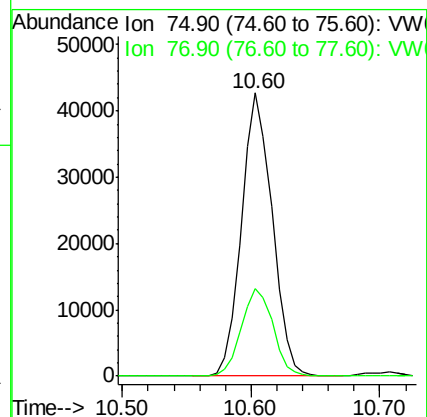
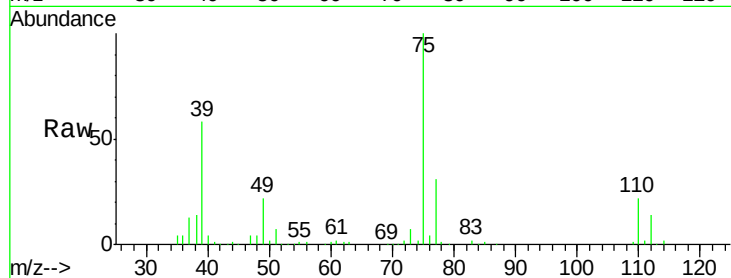
VW0804SBSD02

Tot Ion: 75 Resp: 70432

Ion Ratio Lower Upper

75 100

77 30.7 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 19.317 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

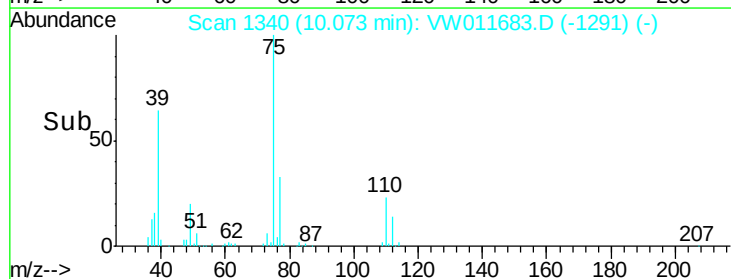
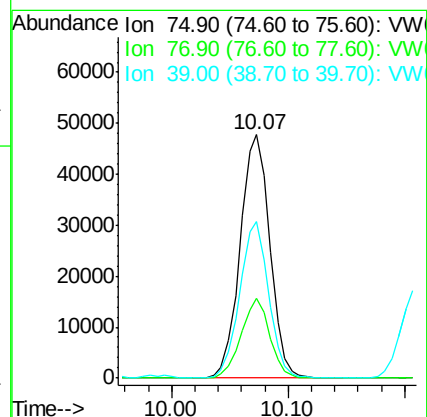
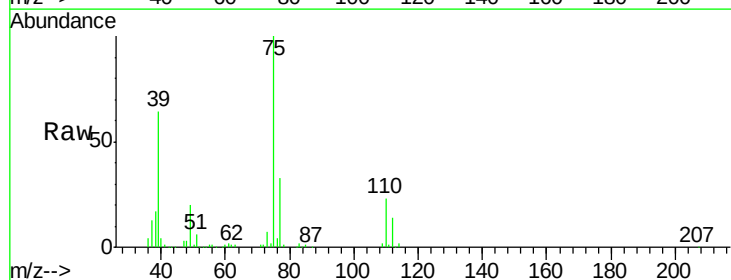
Tgt Ion: 75 Resp: 85215

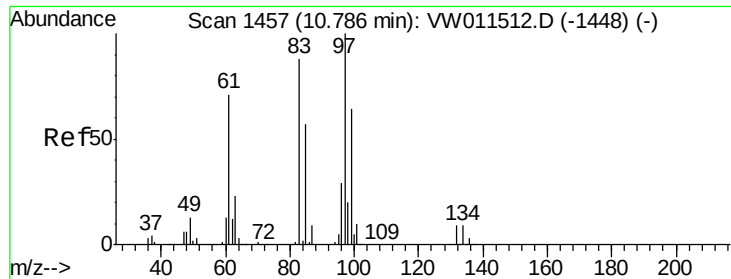
Ion Ratio Lower Upper

75 100

77 32.6 25.6 38.4

39 64.3 47.0 70.4

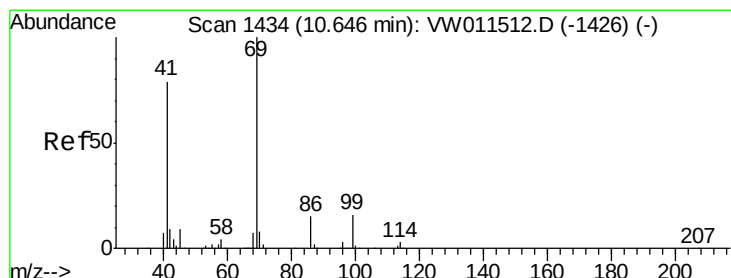
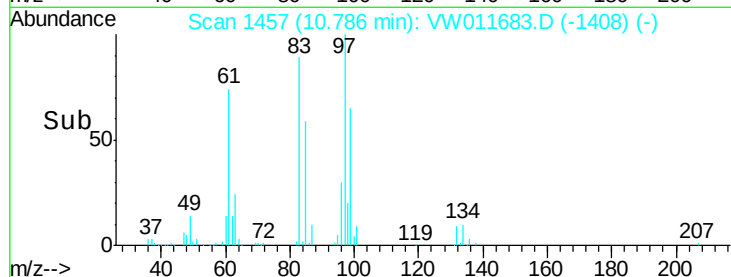
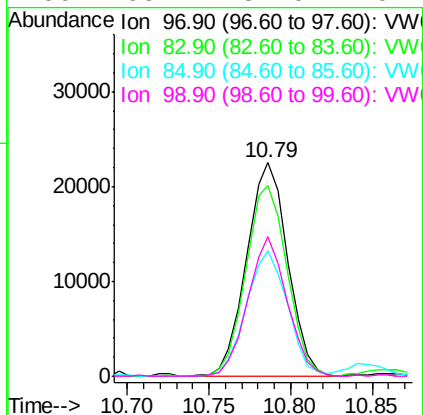
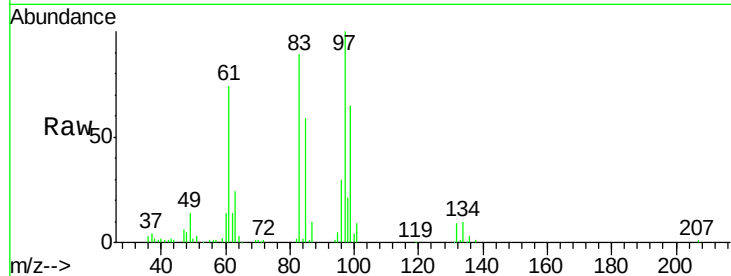




#55  
 1,1,2-Trichloroethane  
 Concen: 20.607 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

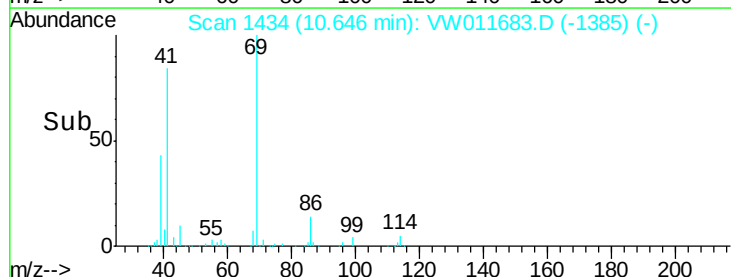
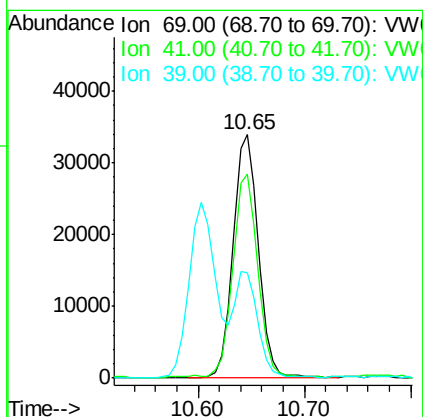
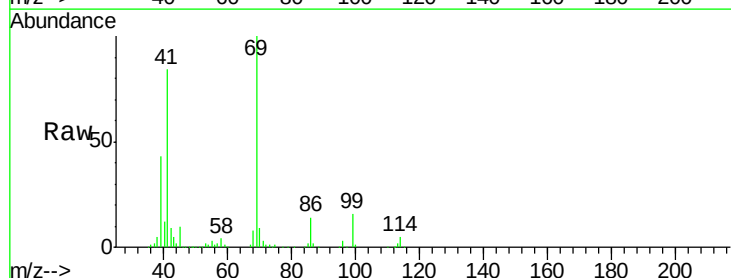
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 39589 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 89.1  | 70.5  | 105.7 |
| 85       | 58.7  | 45.8  | 68.6  |
| 99       | 65.2  | 51.0  | 76.4  |

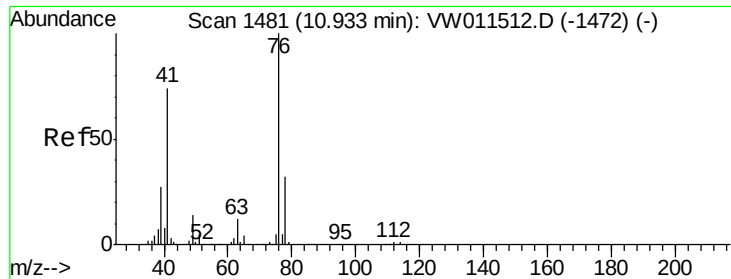


#56  
 Ethyl methacrylate  
 Concen: 20.181 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 56735 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 82.7  | 66.6  | 99.8  |
| 39       | 38.7  | 30.3  | 45.5  |



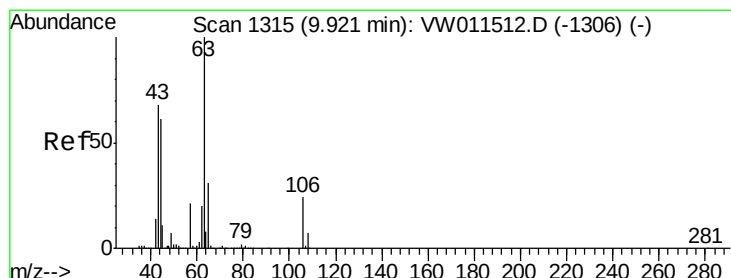
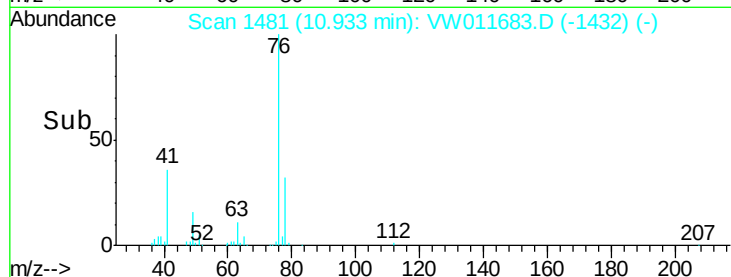
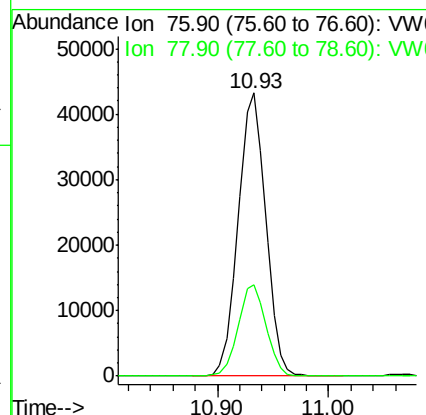
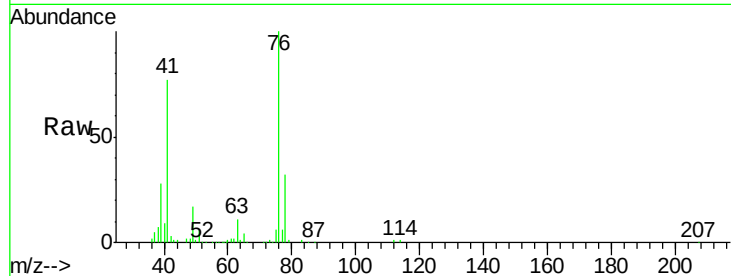




#57  
 1,3-Dichloropropane  
 Concen: 20.422 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

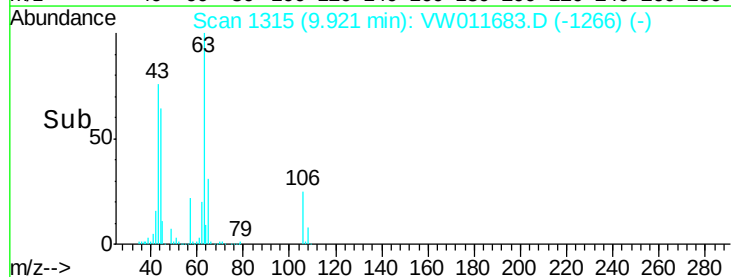
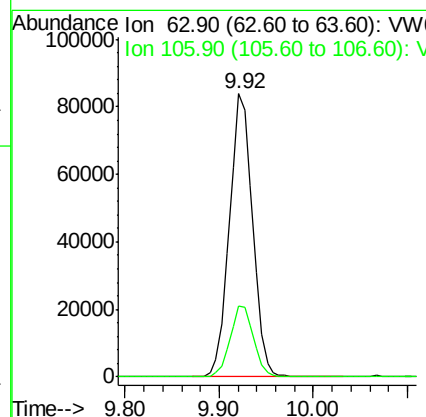
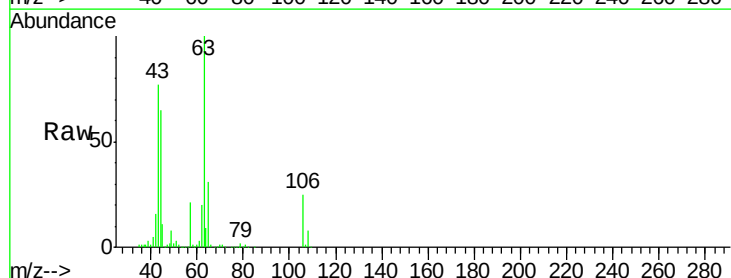
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

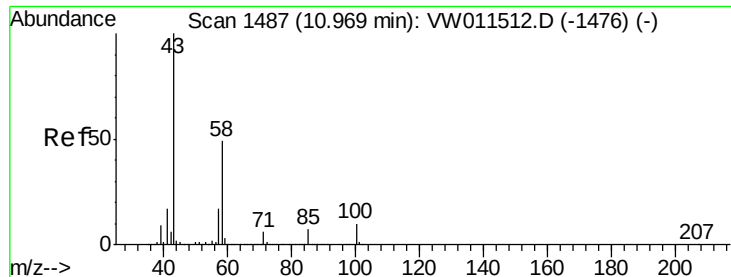
Tot Ion: 76 Resp: 74227  
 Ion Ratio Lower Upper  
 76 100  
 78 32.7 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 112.136 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 63 Resp: 143133  
 Ion Ratio Lower Upper  
 63 100  
 106 25.1 19.7 29.5





#59

2-Hexanone

Concen: 95.733 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

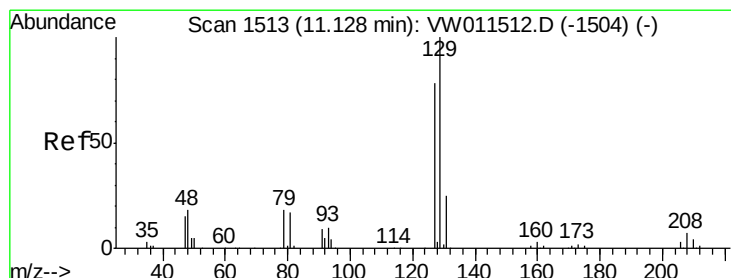
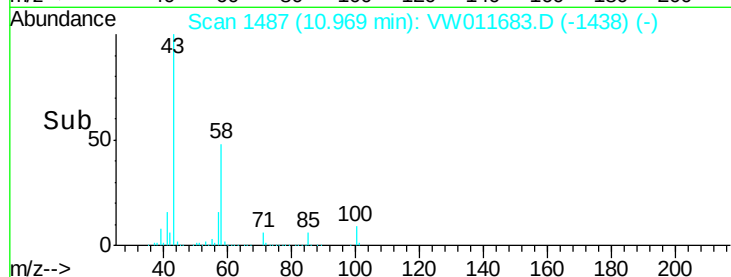
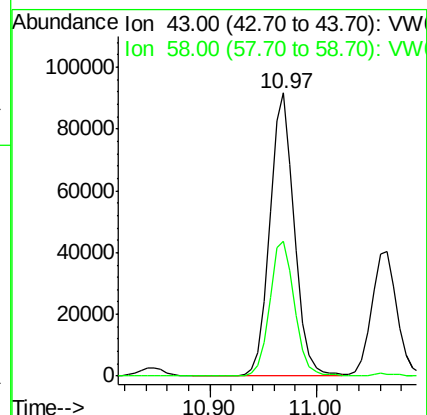
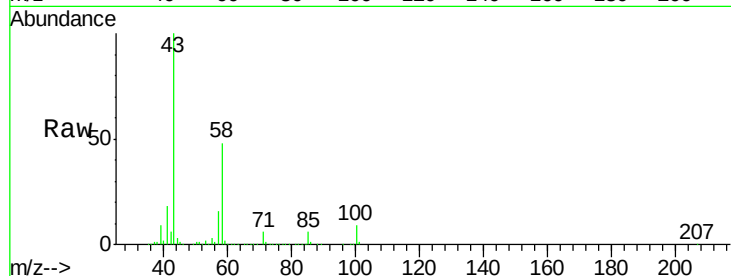
VW0804SBSD02

Tot Ion: 43 Resp: 147251

Ion Ratio Lower Upper

43 100

58 48.5 24.3 72.9



#60

Dibromochloromethane

Concen: 20.237 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW011683.D

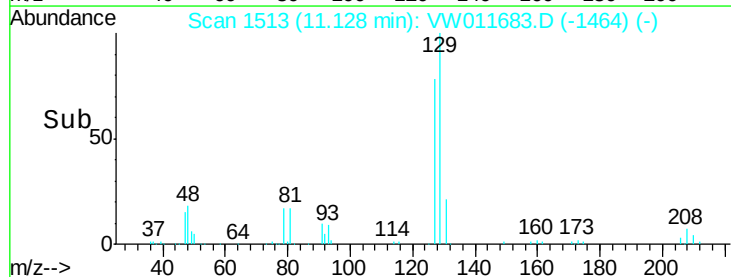
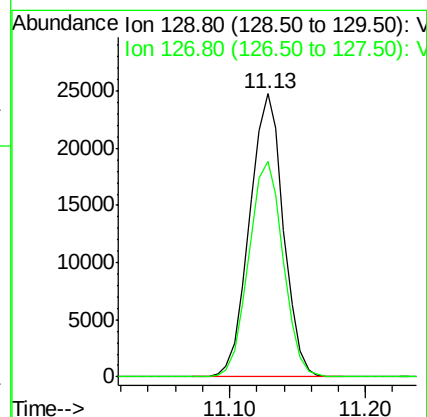
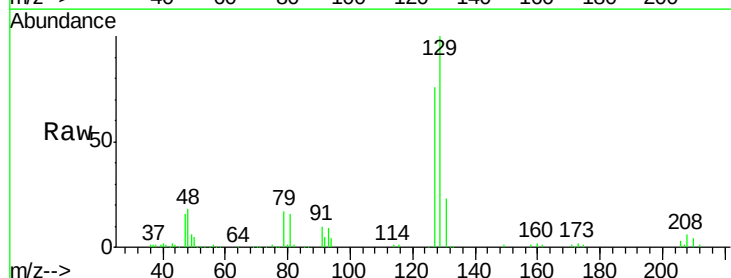
Acq: 04 Aug 2019 00:47

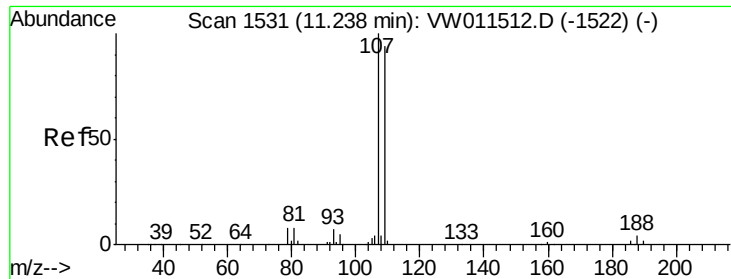
Tgt Ion: 129 Resp: 43156

Ion Ratio Lower Upper

129 100

127 77.4 38.9 116.7

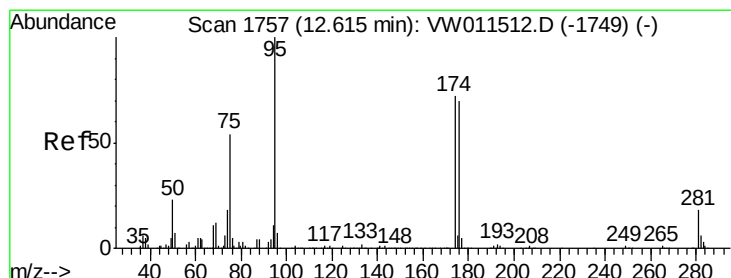
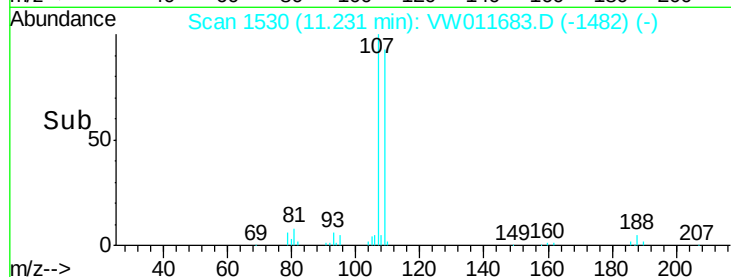
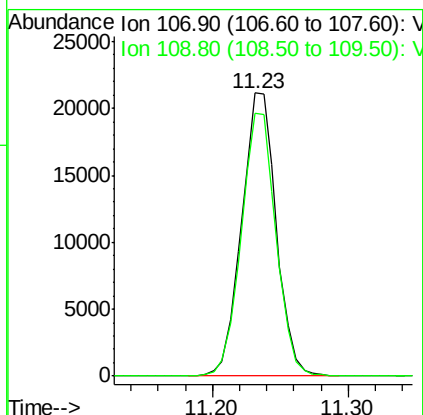
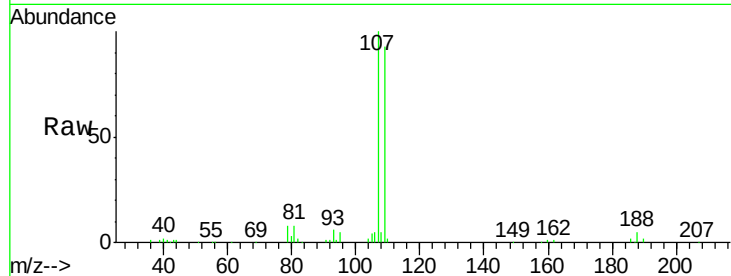




#61  
 1,2-Dibromoethane  
 Concen: 20.640 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.01 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

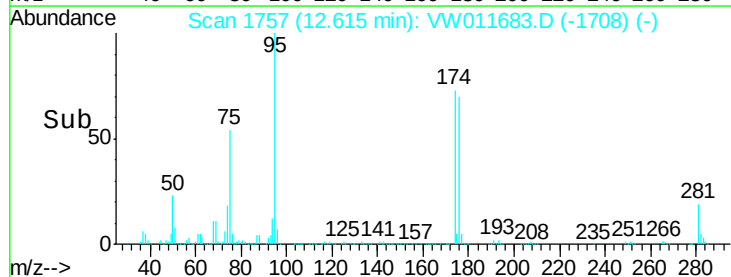
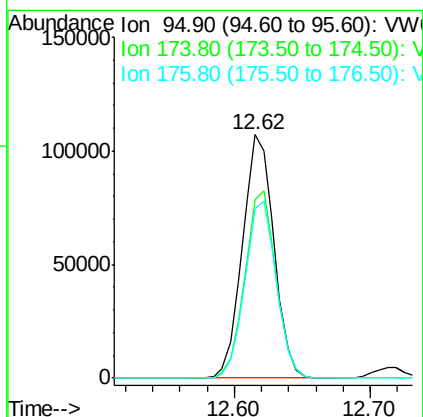
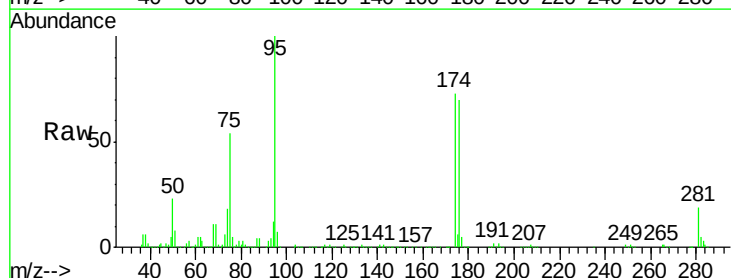
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

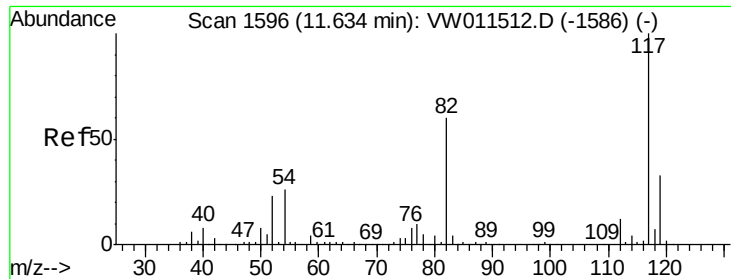
Tot Ion:107 Resp: 37525  
 Ion Ratio Lower Upper  
 107 100  
 109 93.7 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 55.455 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 95 Resp: 172874  
 Ion Ratio Lower Upper  
 95 100  
 174 76.3 0.0 150.2  
 176 73.1 0.0 144.4

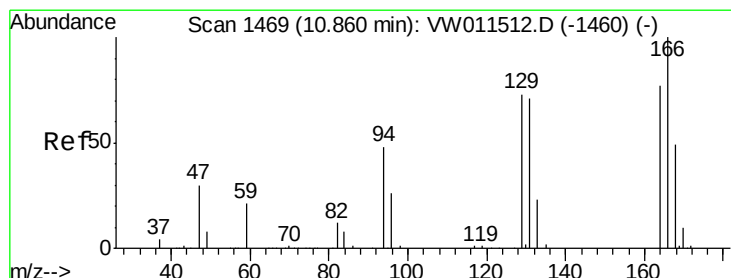
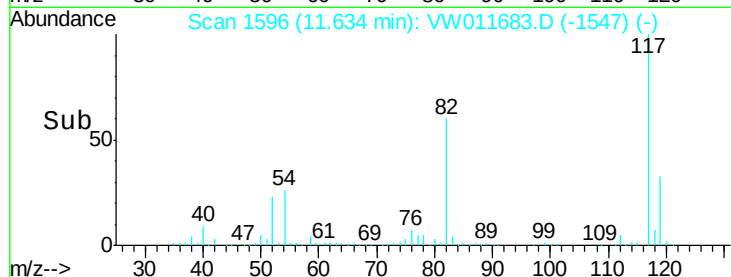
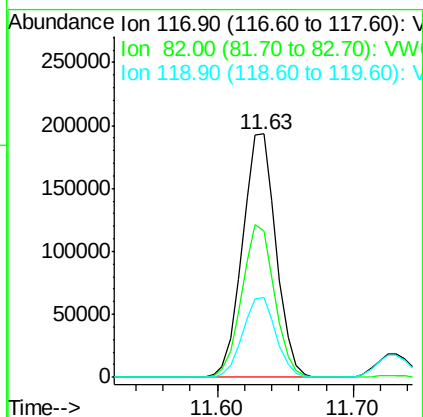
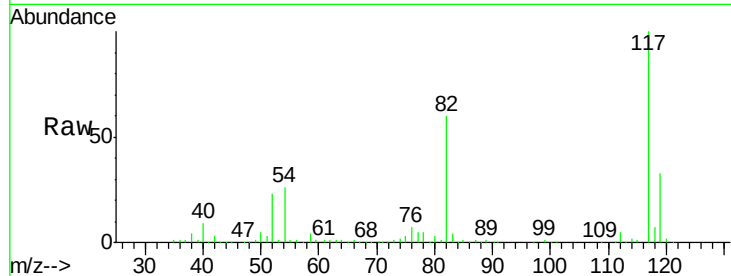




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

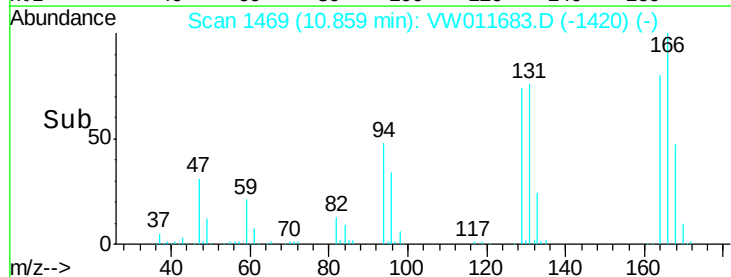
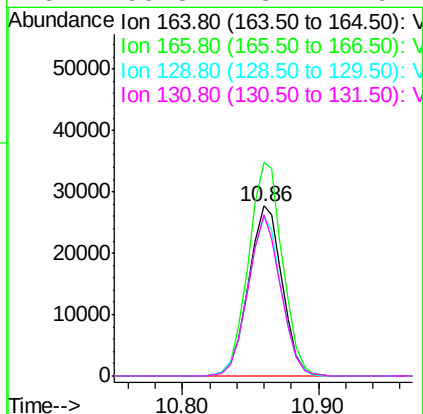
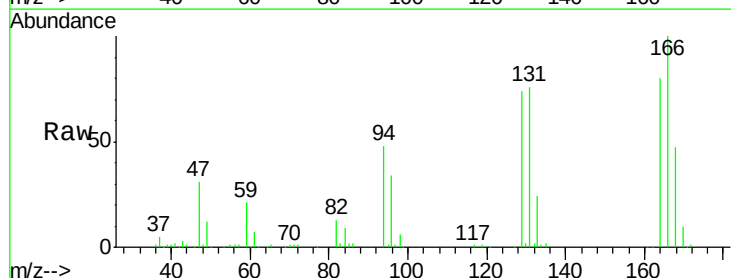
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

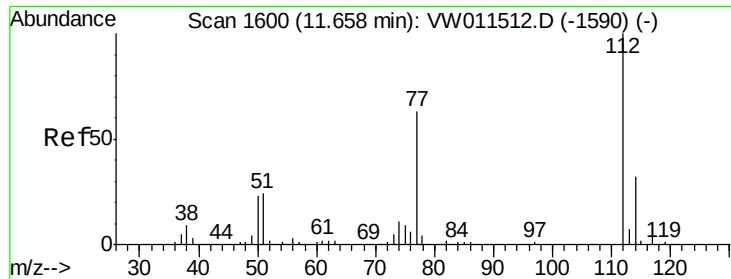
Tot Ion:117 Resp: 332876  
Ion Ratio Lower Upper  
117 100  
82 60.0 47.9 71.9  
119 32.6 26.2 39.2



#64  
Tetrachloroethene  
Concen: 22.102 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion:164 Resp: 47904  
Ion Ratio Lower Upper  
164 100  
166 125.7 103.5 155.3  
129 93.1 75.2 112.8  
131 95.3 73.4 110.2

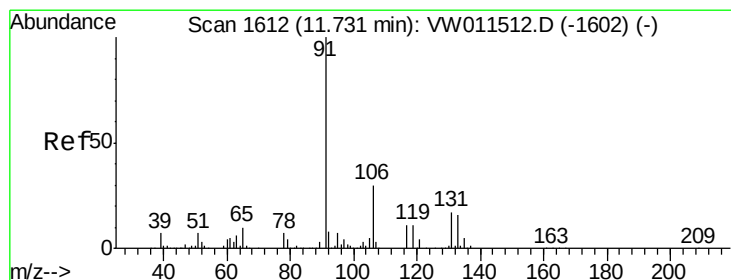
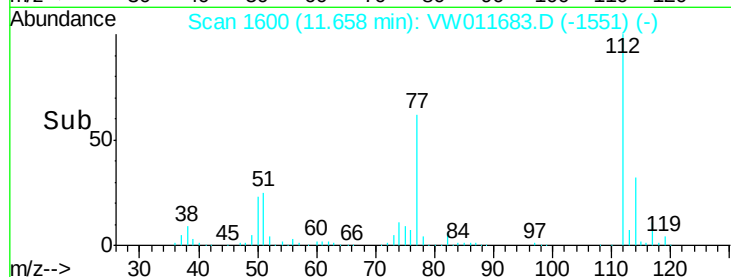
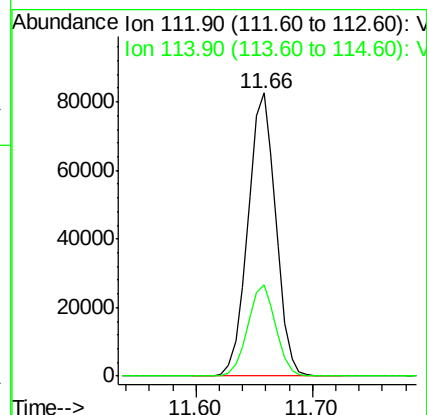
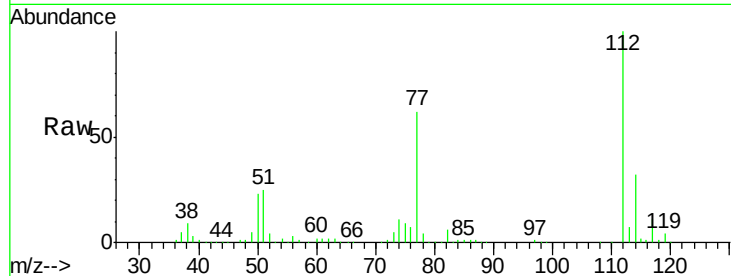




#65  
Chlorobenzene  
Concen: 20.583 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

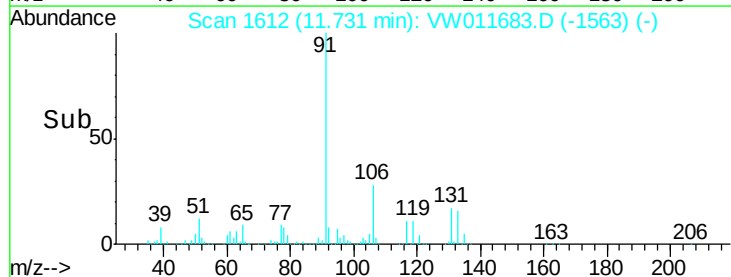
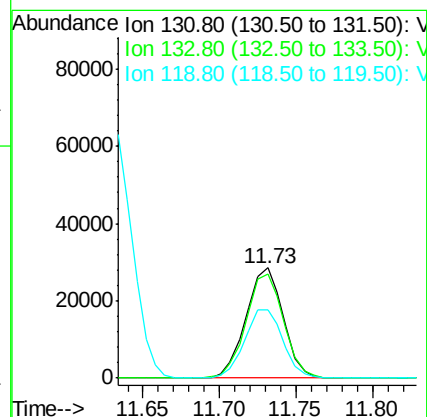
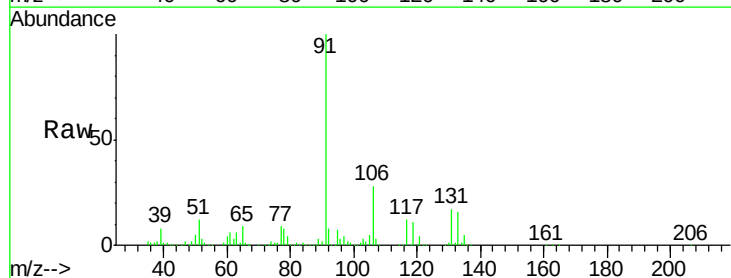
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

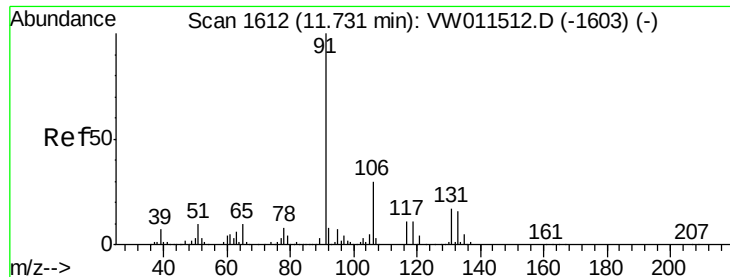
Tot Ion:112 Resp: 137752  
Ion Ratio Lower Upper  
112 100  
114 32.3 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.674 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion:131 Resp: 48194  
Ion Ratio Lower Upper  
131 100  
133 95.3 47.4 142.2  
119 63.8 32.3 96.9

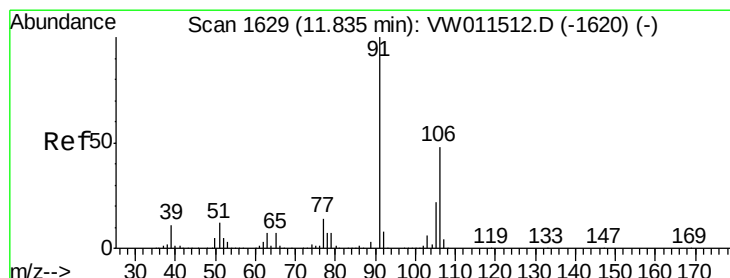
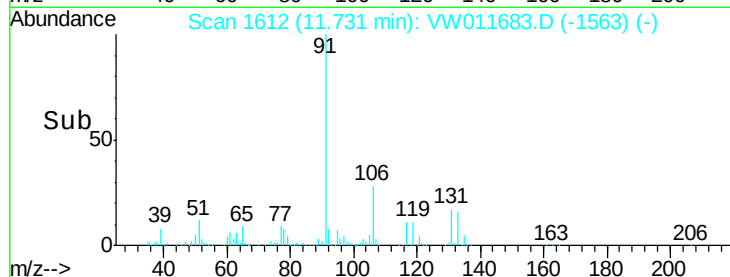
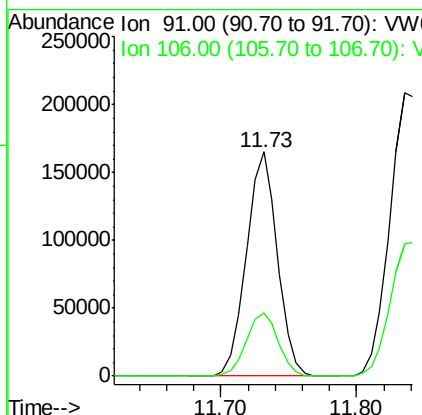
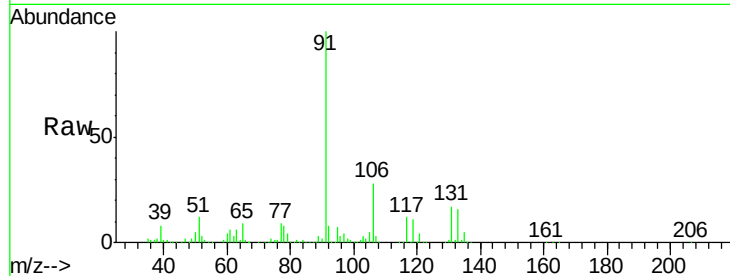




#67  
Ethyl Benzene  
Concen: 20.626 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

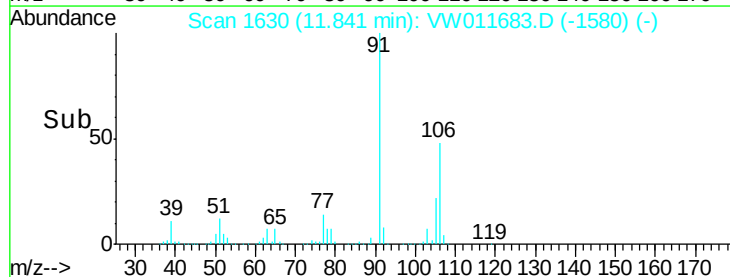
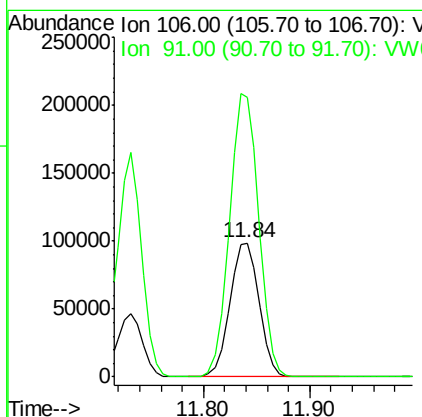
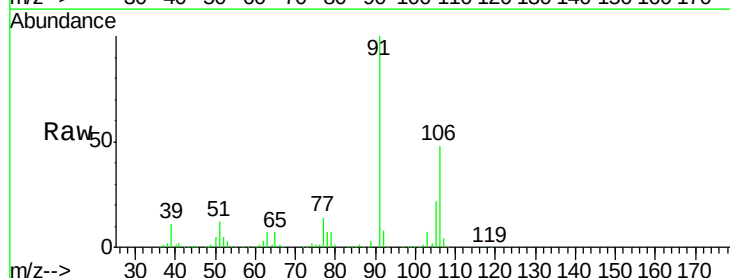
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

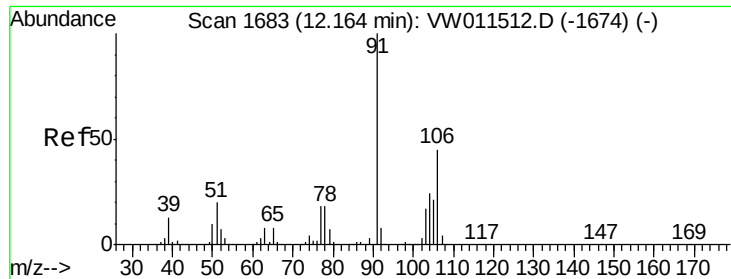
Tot Ion: 91 Resp: 262898  
Ion Ratio Lower Upper  
91 100  
106 28.1 23.8 35.6



#68  
m/p-Xylenes  
Concen: 40.770 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion: 106 Resp: 188979  
Ion Ratio Lower Upper  
106 100  
91 211.6 168.2 252.2

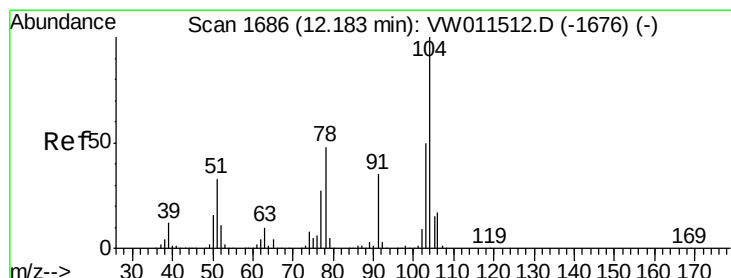
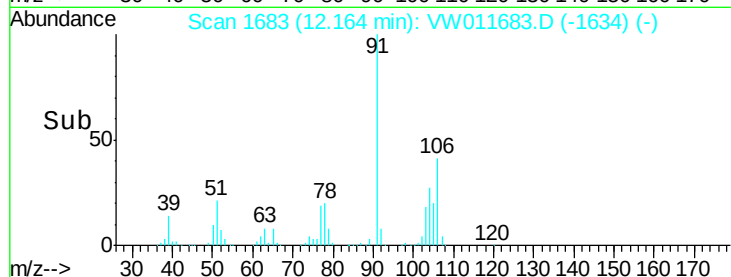
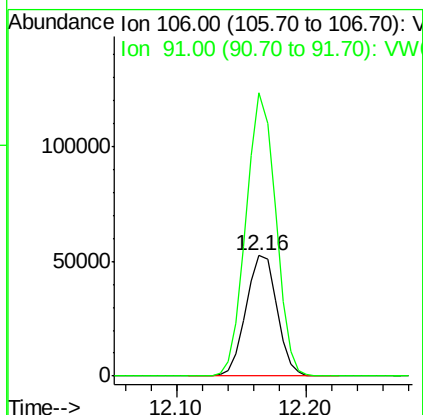
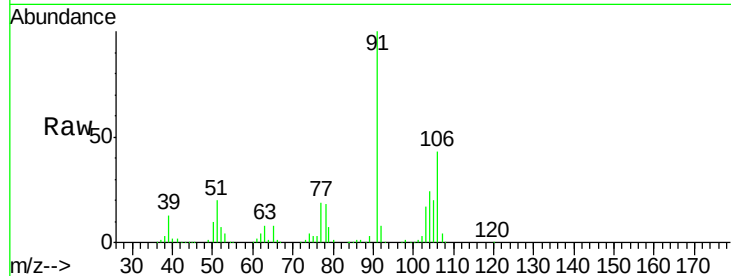




#69  
o-Xylene  
Concen: 20.255 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

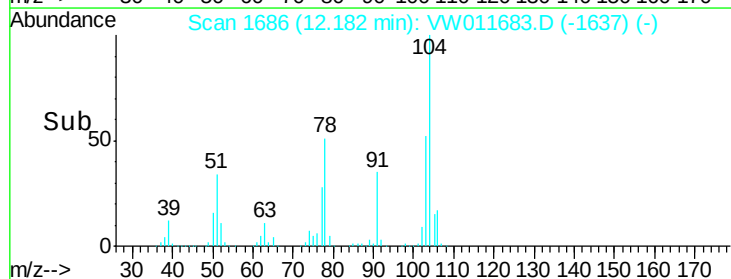
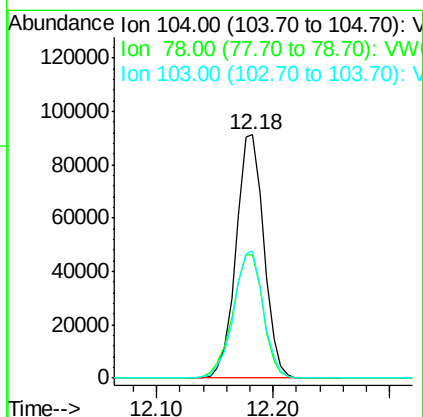
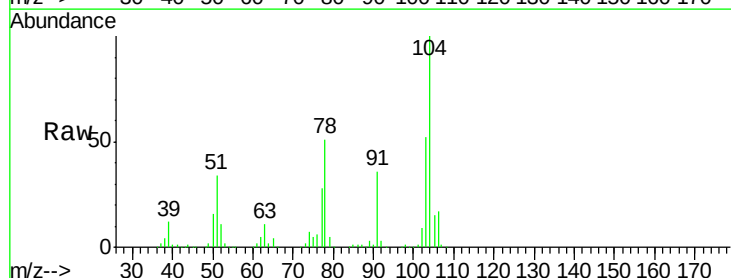
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

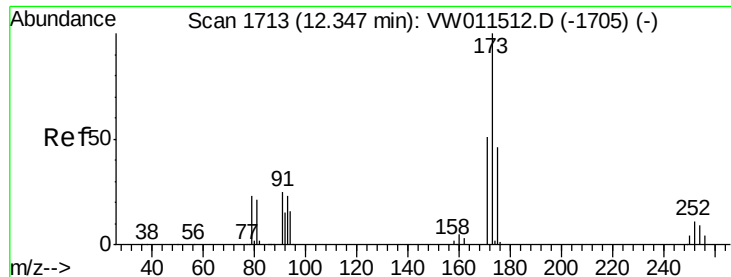
Tot Ion:106 Resp: 87246  
Ion Ratio Lower Upper  
106 100  
91 225.3 110.5 331.5



#70  
Styrene  
Concen: 20.461 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion:104 Resp: 152387  
Ion Ratio Lower Upper  
104 100  
78 55.6 43.4 65.0  
103 55.4 43.9 65.9





#71

Bromoform

Concen: 19.588 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

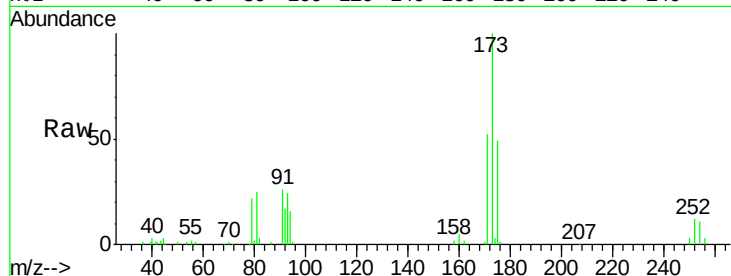
Tot Ion:173 Resp: 23281

Ion Ratio Lower Upper

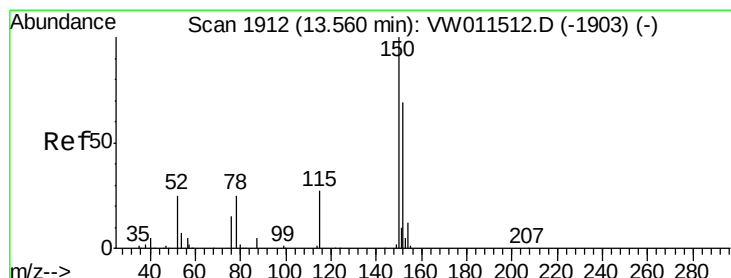
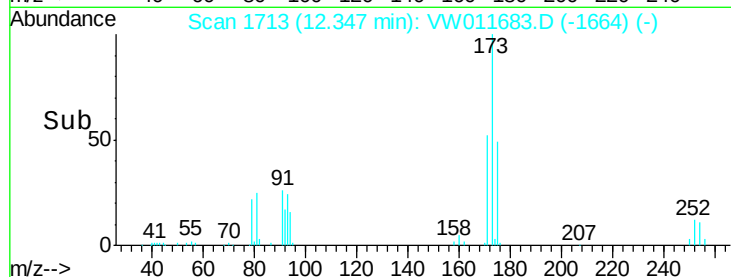
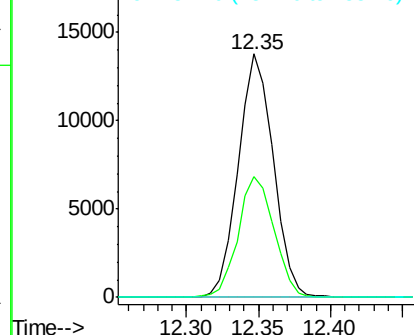
173 100

175 50.8 23.6 71.0

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

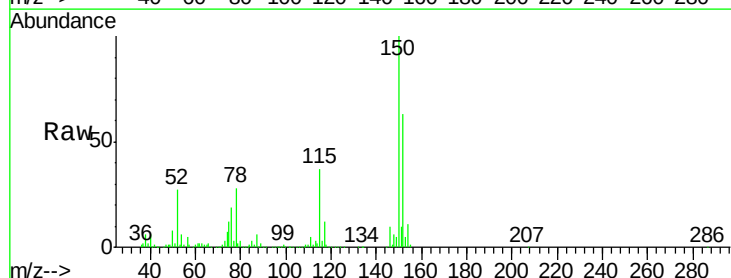
Tgt Ion:152 Resp: 157947

Ion Ratio Lower Upper

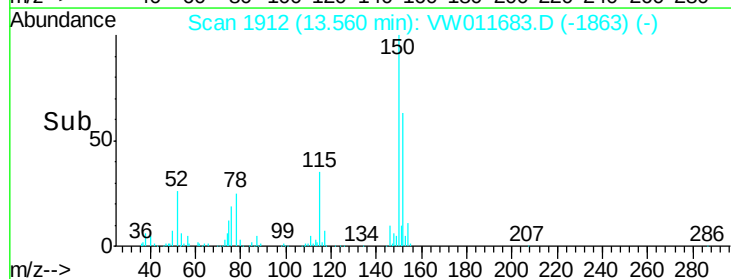
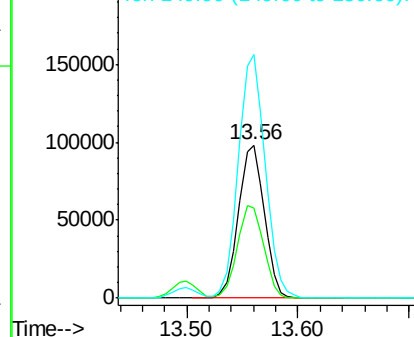
152 100

115 61.4 30.5 91.5

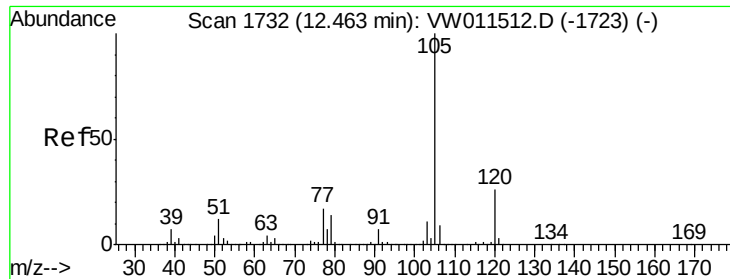
150 165.3 0.0 352.6



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: 20.548 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

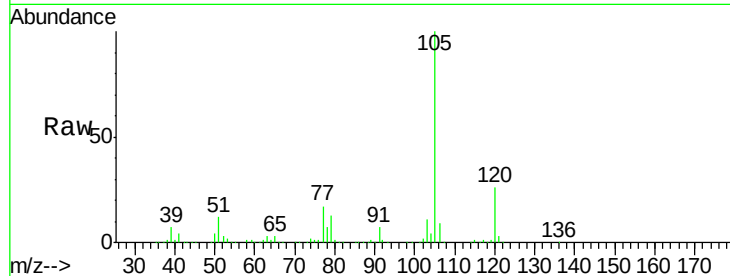
VW0804SBSD02

Tot Ion:105 Resp: 242117

Ion Ratio Lower Upper

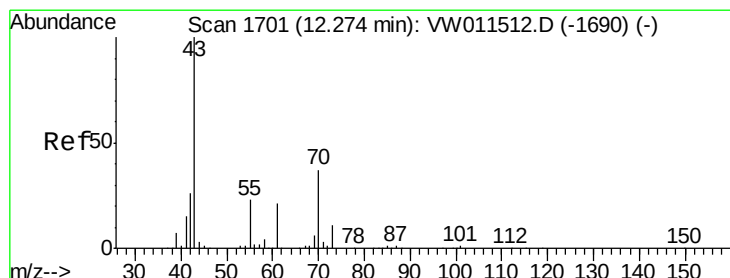
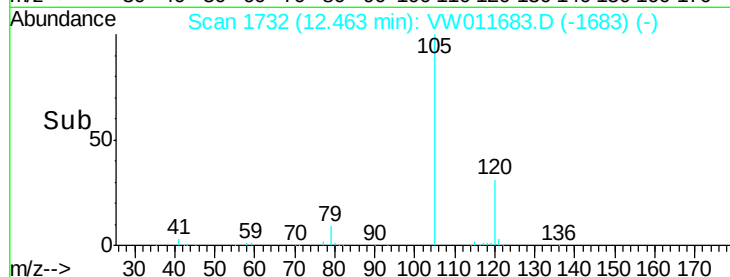
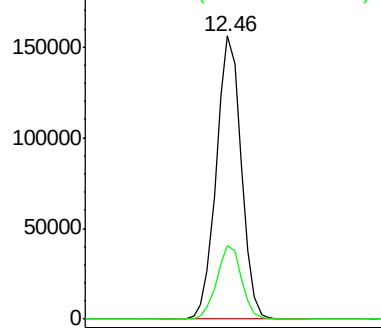
105 100

120 25.7 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.323 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Tgt Ion: 43 Resp: 67595

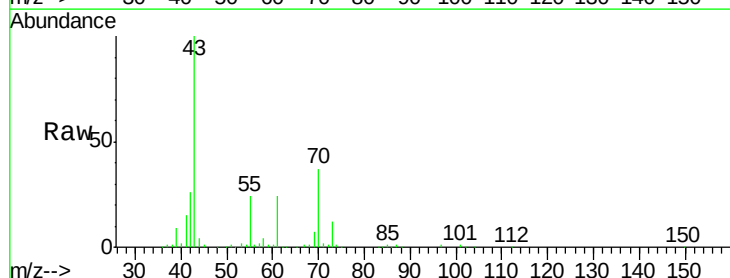
Ion Ratio Lower Upper

43 100

70 36.3 28.6 43.0

55 23.4 17.8 26.8

61 21.9 17.0 25.6

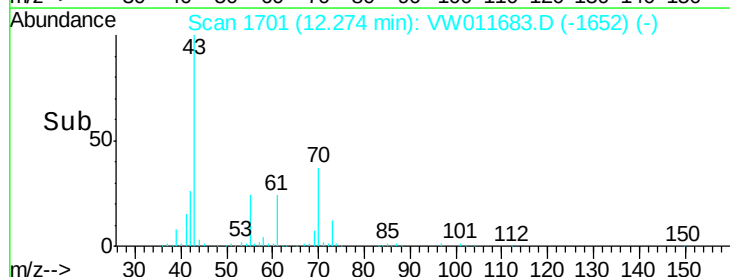
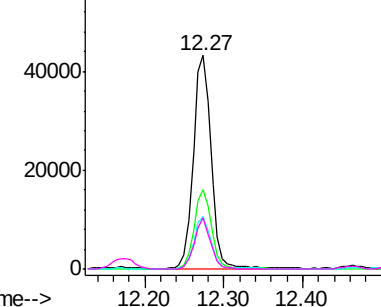


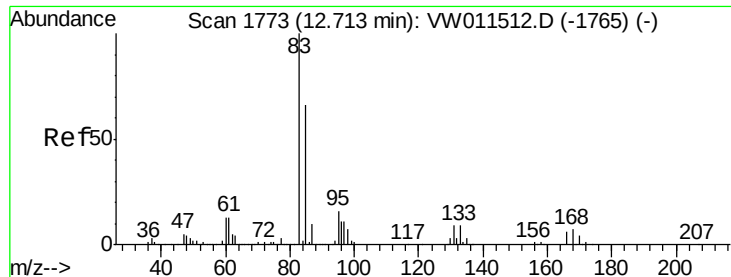
Abundance Ion 43.00 (42.70 to 43.70): VW

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





#75

1,1,2,2-Tetrachloroethane

Concen: 21.115 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

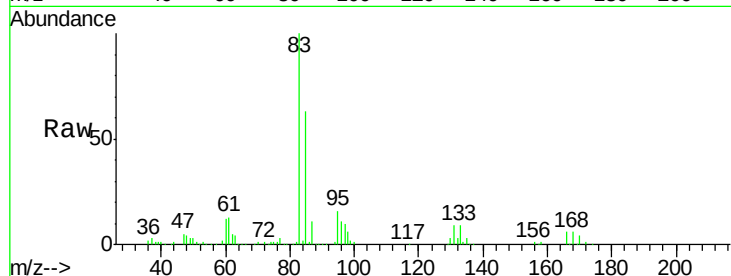
Tot Ion: 83 Resp: 46799

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 10.0  | 4.9   | 14.6  |
| 85  | 64.7  | 31.8  | 95.4  |

83 100

131 10.0 4.9 14.6

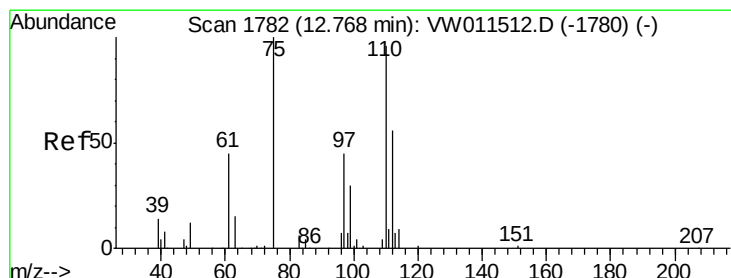
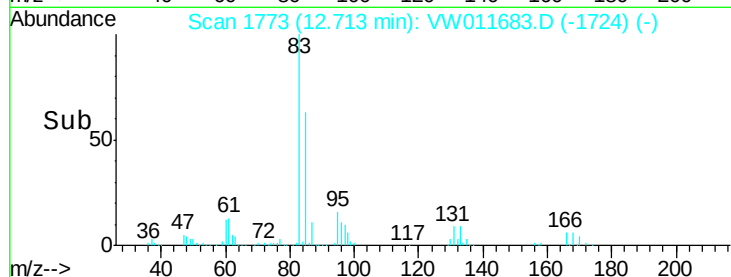
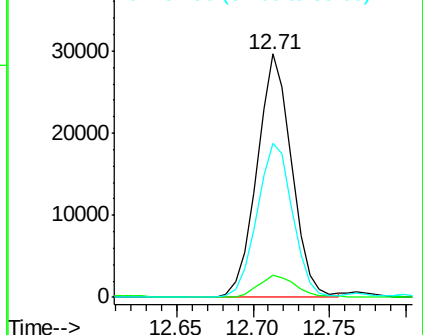
85 64.7 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 19.670 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011683.D

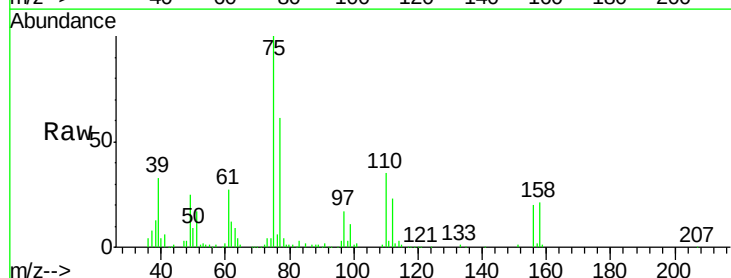
Acq: 04 Aug 2019 00:47

Tgt Ion: 75 Resp: 32874

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 0.0   | 0.0   | 0.0   |

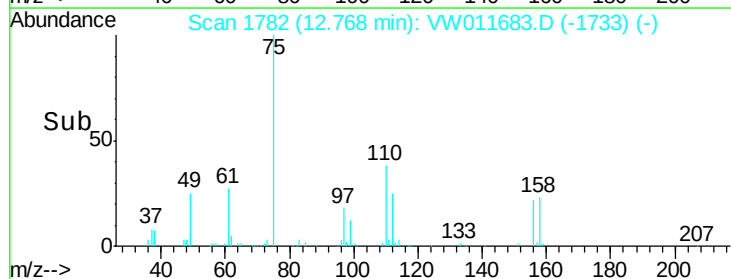
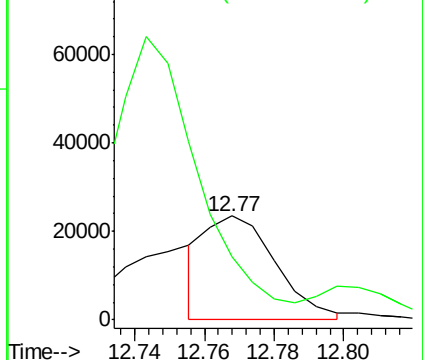
75 100

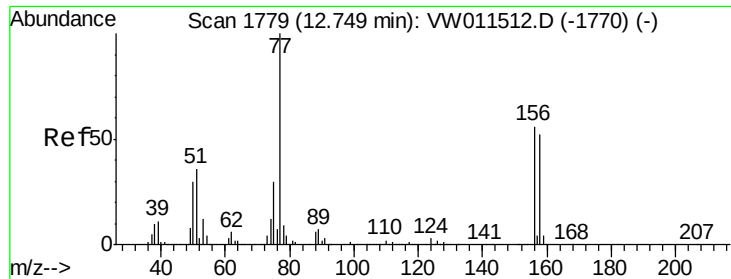
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 21.176 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

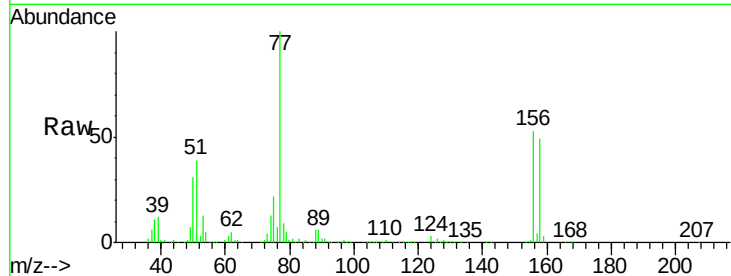
Tot Ion:156 Resp: 55152

Ion Ratio Lower Upper

156 100

77 209.1 106.5 319.4

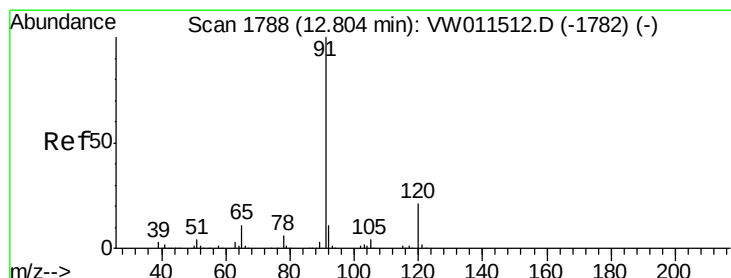
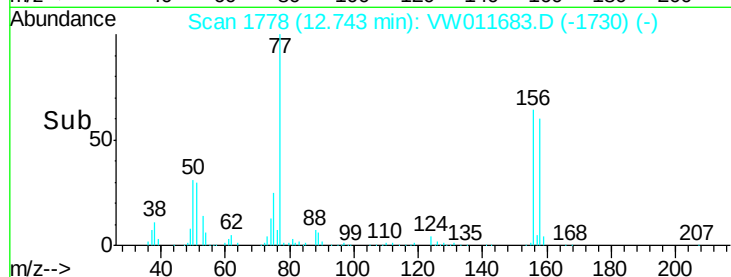
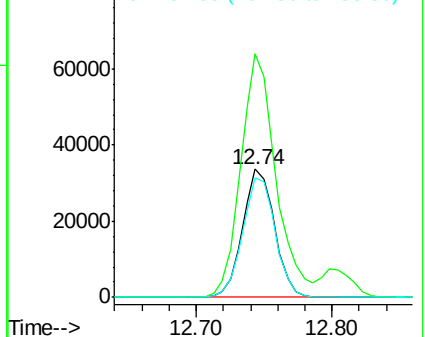
158 95.7 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.680 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW011683.D

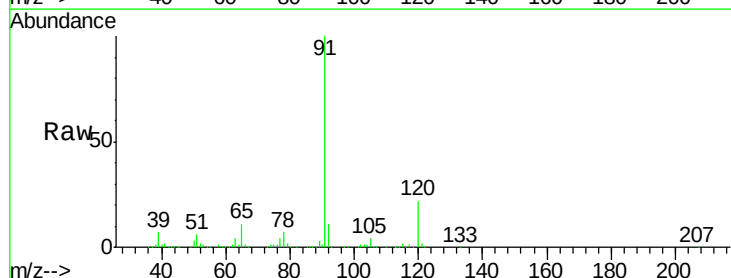
Acq: 04 Aug 2019 00:47

Tgt Ion: 91 Resp: 296551

Ion Ratio Lower Upper

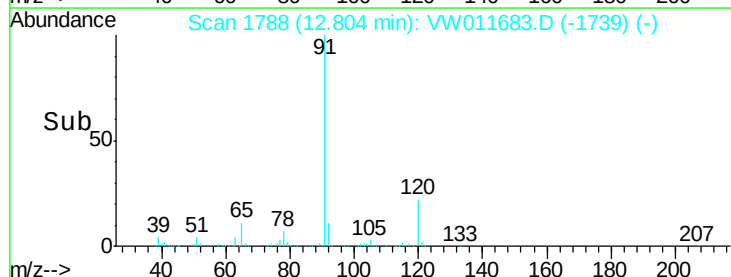
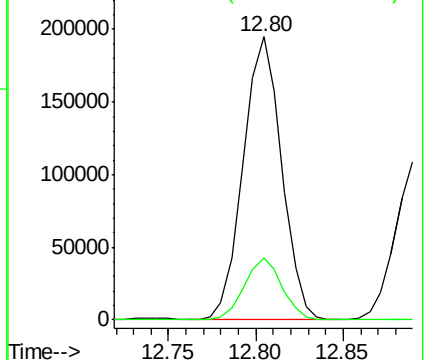
91 100

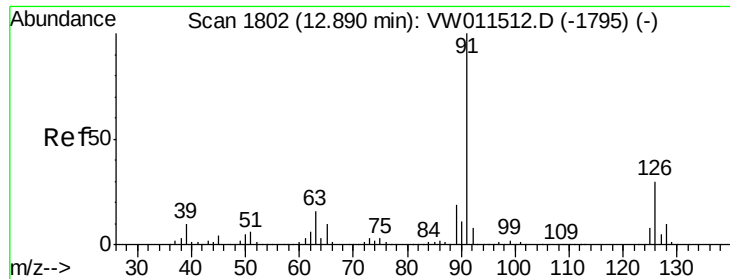
120 21.4 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.978 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

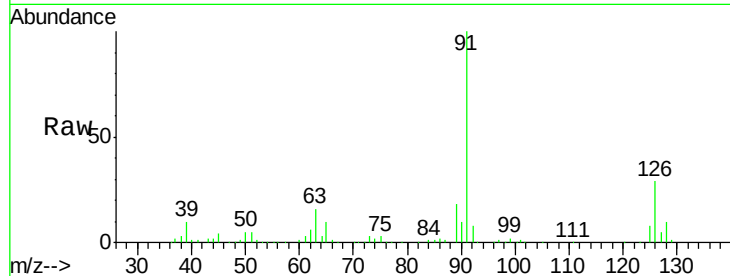
VW0804SBSD02

Tot Ion: 91 Resp: 173309

Ion Ratio Lower Upper

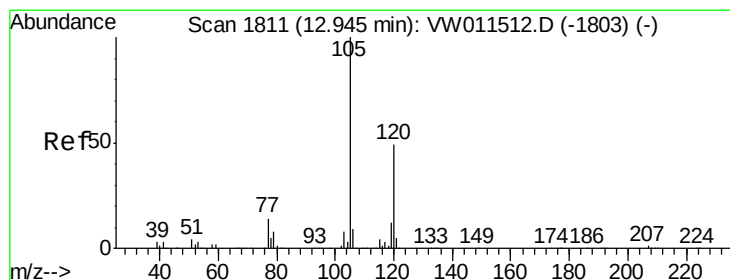
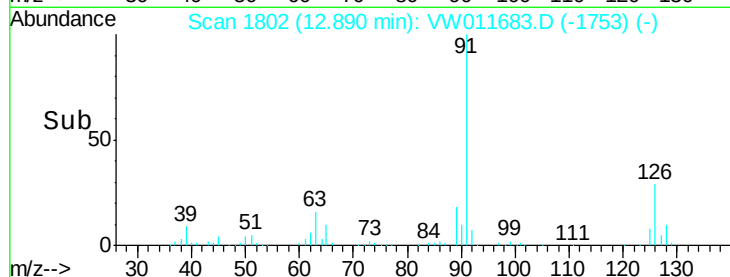
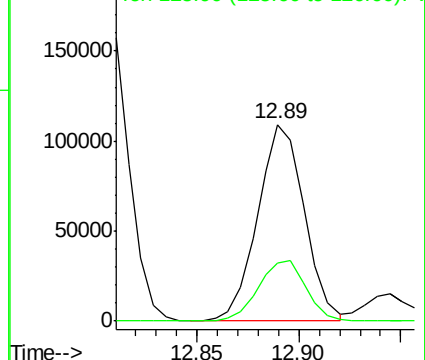
91 100

126 31.4 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.791 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011683.D

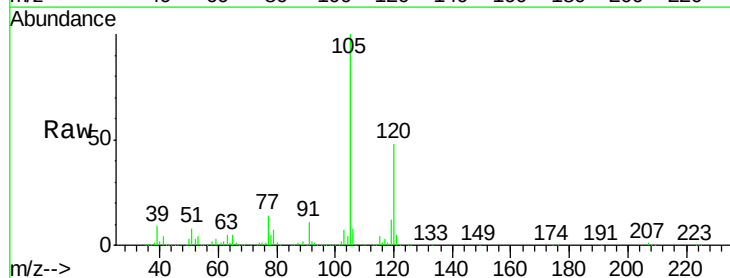
Acq: 04 Aug 2019 00:47

Tgt Ion:105 Resp: 205354

Ion Ratio Lower Upper

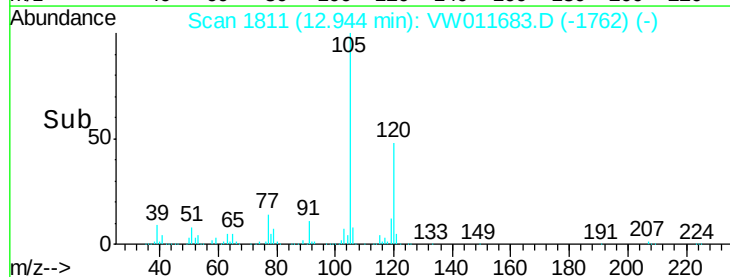
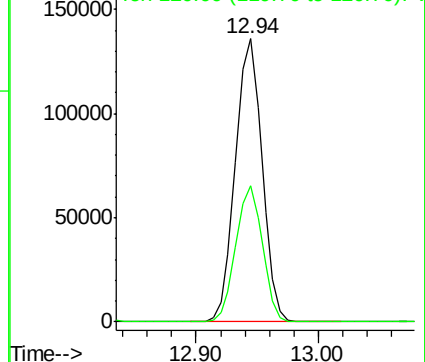
105 100

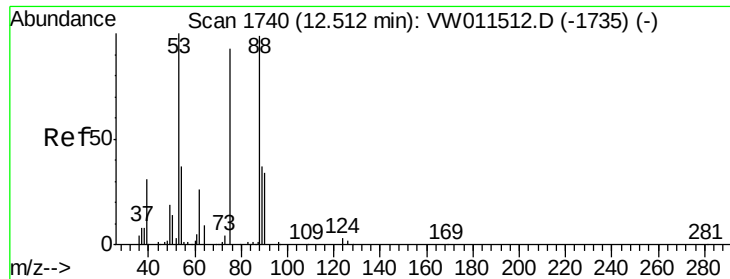
120 48.1 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 18.764 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

VW0804SBSD02

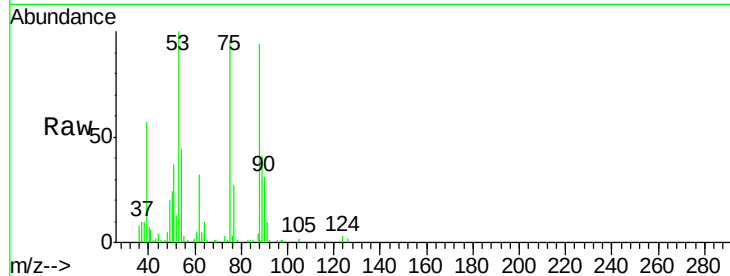
Tot Ion: 75 Resp: 13607

Ion Ratio Lower Upper

75 100

53 113.4 88.0 132.0

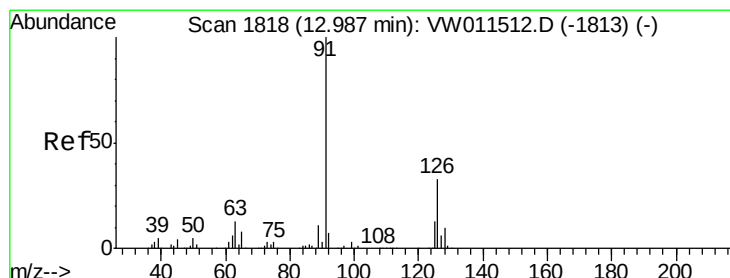
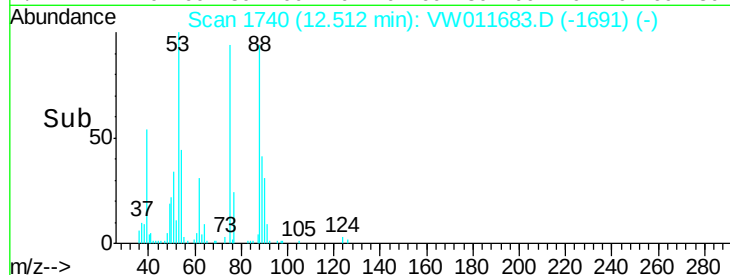
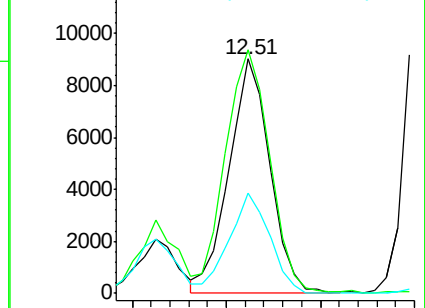
89 42.6 35.3 52.9



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 21.038 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW011683.D

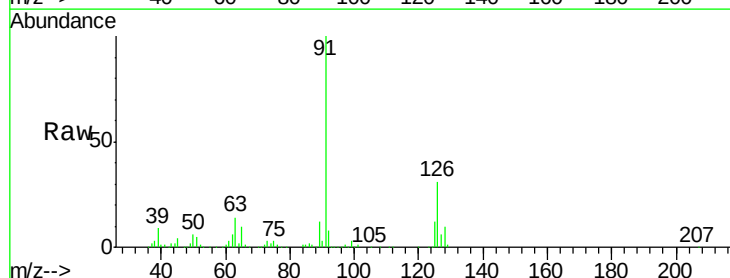
Acq: 04 Aug 2019 00:47

Tgt Ion: 91 Resp: 182358

Ion Ratio Lower Upper

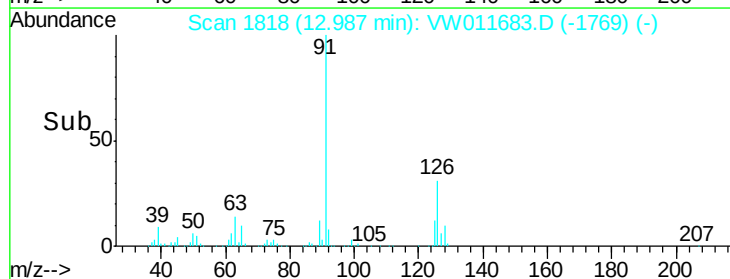
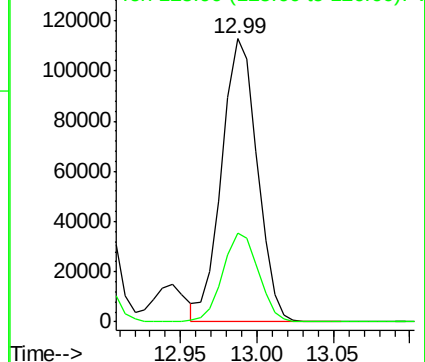
91 100

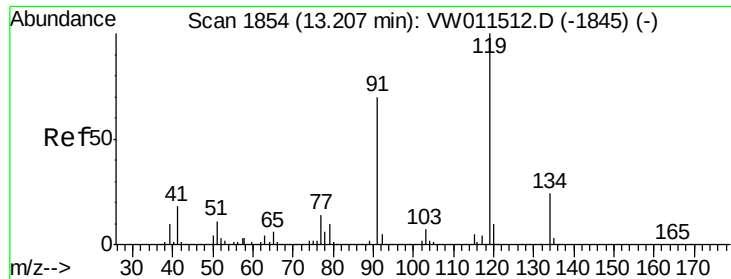
126 31.5 15.6 46.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): VW

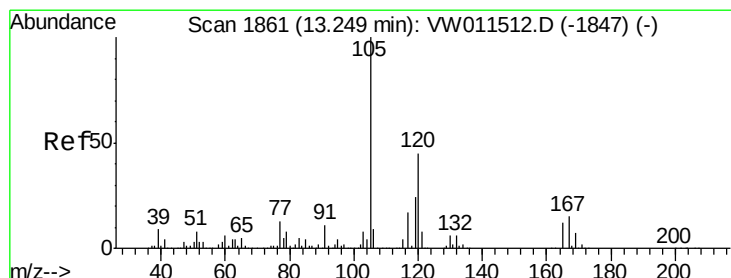
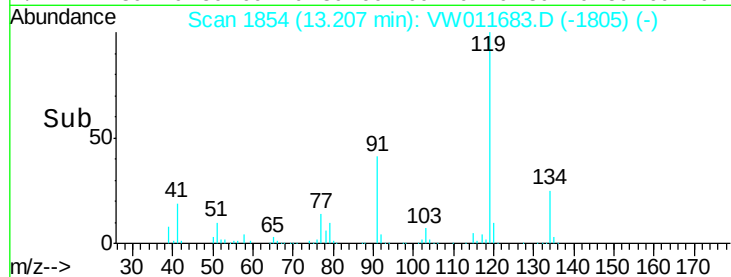
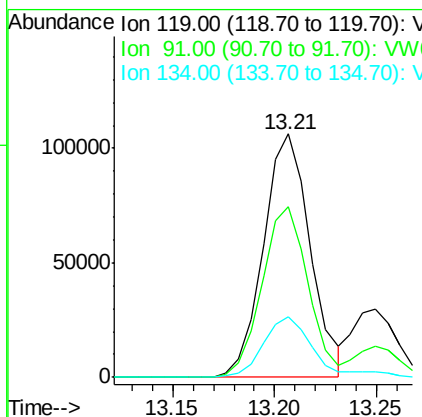
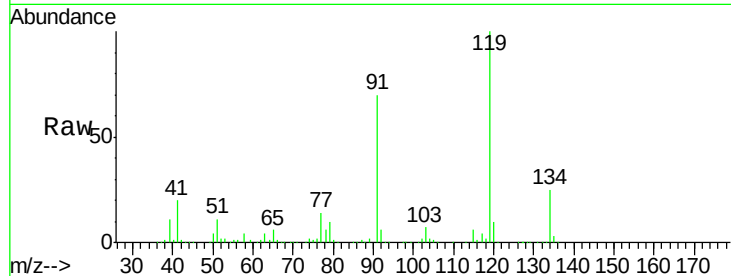




#83  
 tert-Butylbenzene  
 Concen: 20.661 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

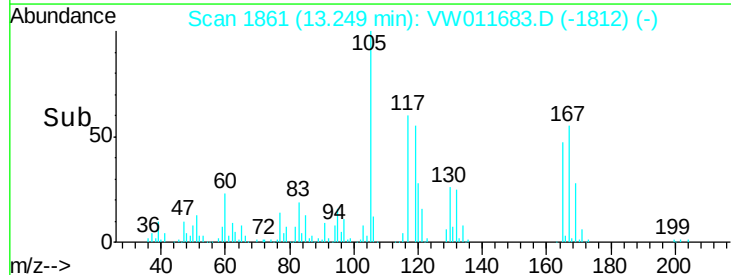
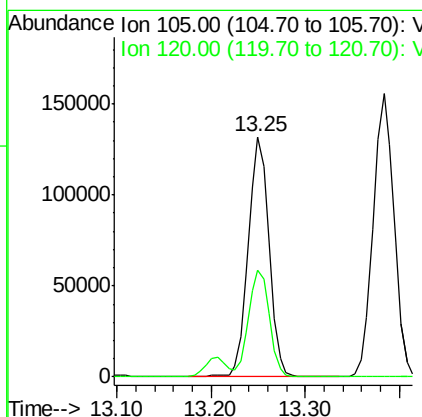
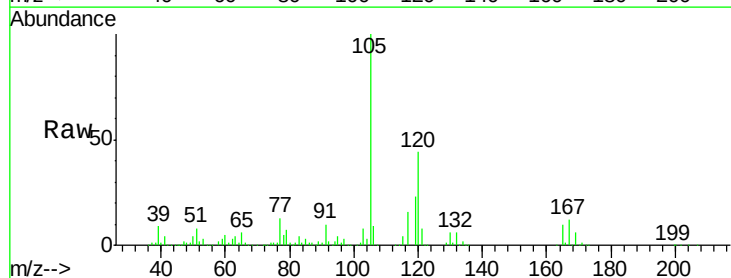
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

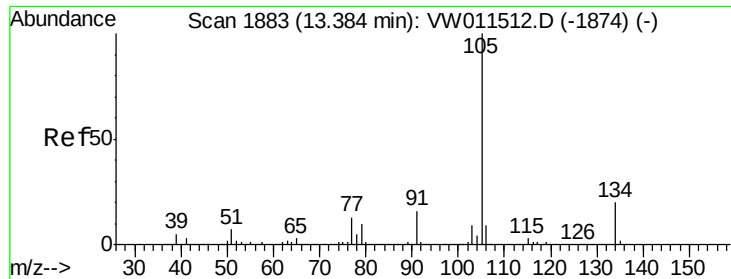
Tot Ion:119 Resp: 170660  
 Ion Ratio Lower Upper  
 119 100  
 91 68.7 34.5 103.6  
 134 26.6 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.663 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion:105 Resp: 205593  
 Ion Ratio Lower Upper  
 105 100  
 120 44.1 22.1 66.5





#85

sec-Butylbenzene

Concen: 20.293 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampleId :

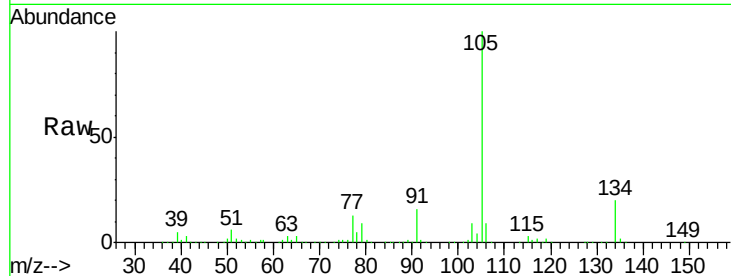
VW0804SBSD02

Tot Ion:105 Resp: 239164

Ion Ratio Lower Upper

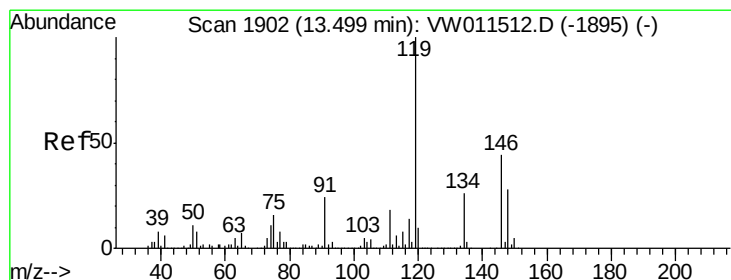
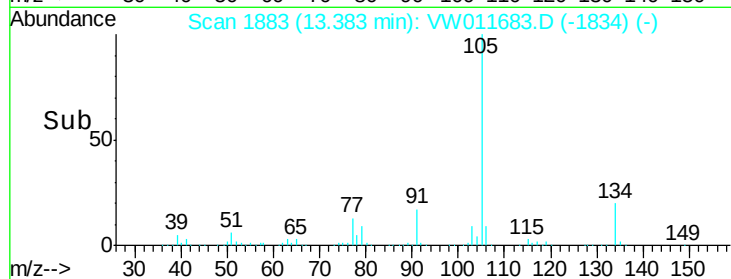
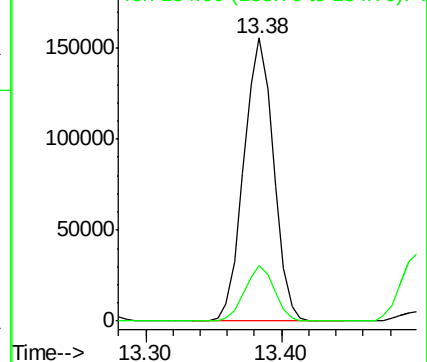
105 100

134 19.5 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.956 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

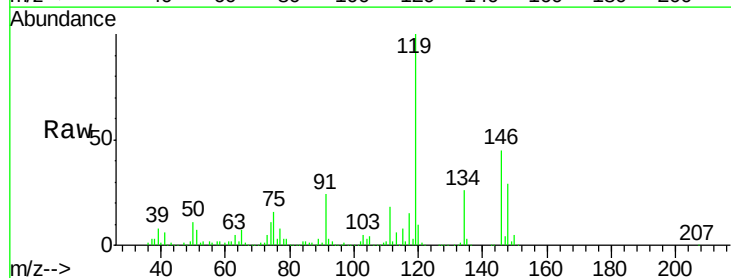
Tgt Ion:119 Resp: 213393

Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

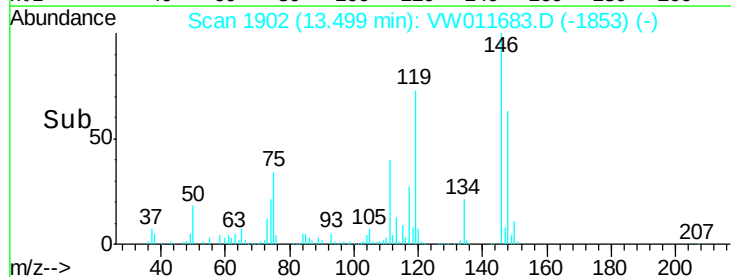
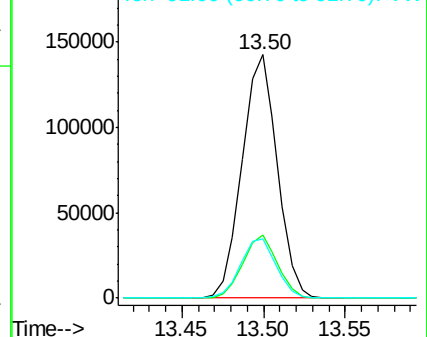
91 24.6 12.1 36.3

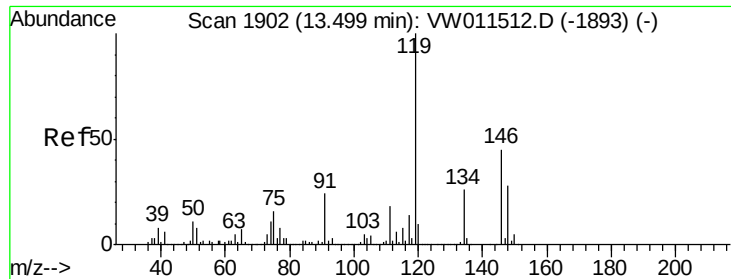


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

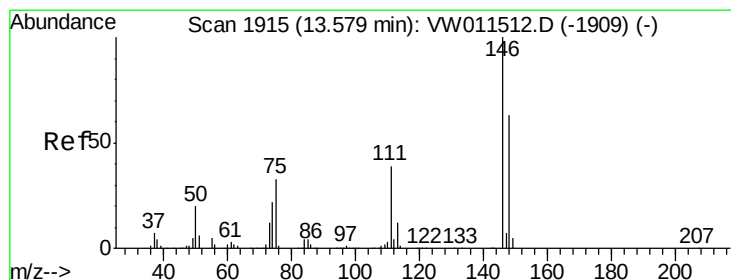
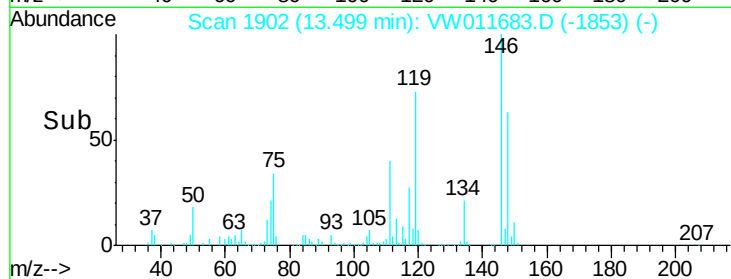
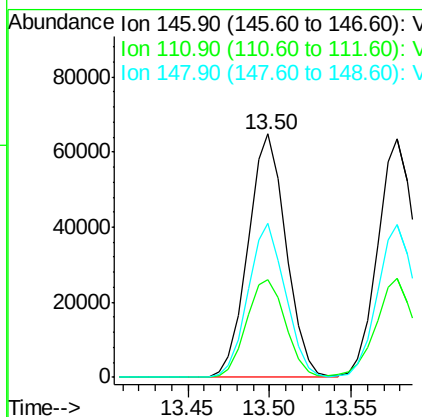
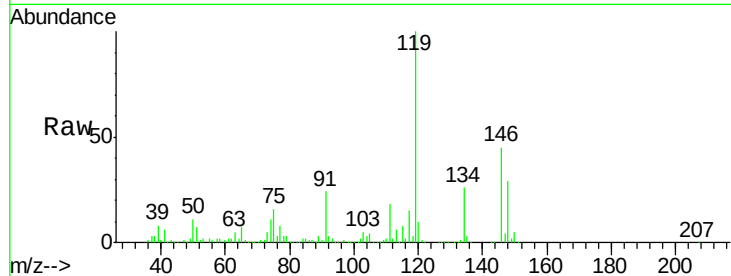




#87  
 1,3-Dichlorobenzene  
 Concen: 20.520 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

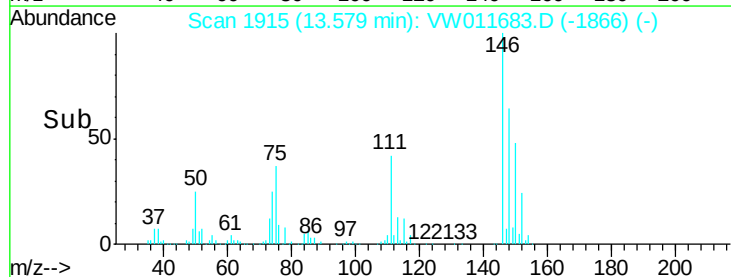
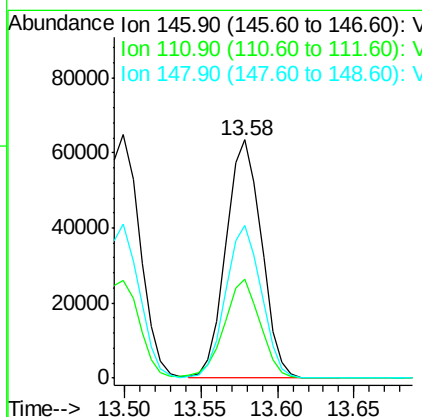
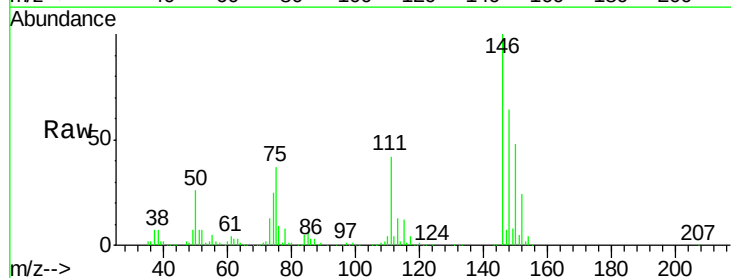
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

Tot Ion:146 Resp: 104791  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 20.5 61.6  
 148 62.0 31.8 95.3

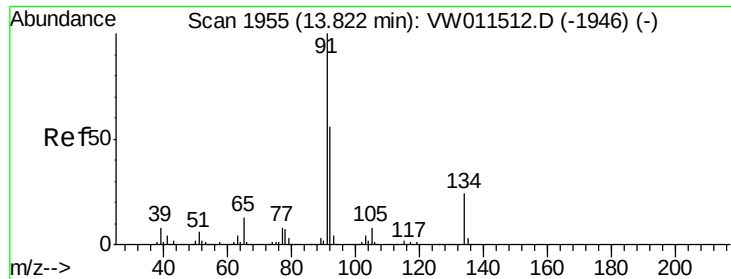


#88  
 1,4-Dichlorobenzene  
 Concen: 20.124 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion:146 Resp: 102229  
 Ion Ratio Lower Upper  
 146 100  
 111 41.9 20.1 60.2  
 148 64.6 31.9 95.9







#89

n-Butylbenzene

Concen: 19.030 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW011683.D

Acq: 04 Aug 2019 00:47

Instrument :

MSVOA\_W

ClientSampled :

VW0804SBSD02

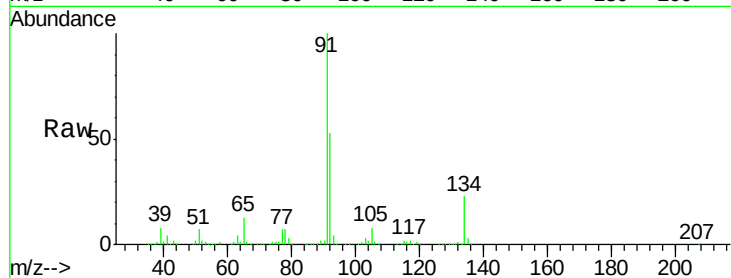
Tot Ion: 91 Resp: 203073

Ion Ratio Lower Upper

91 100

92 53.7 27.5 82.4

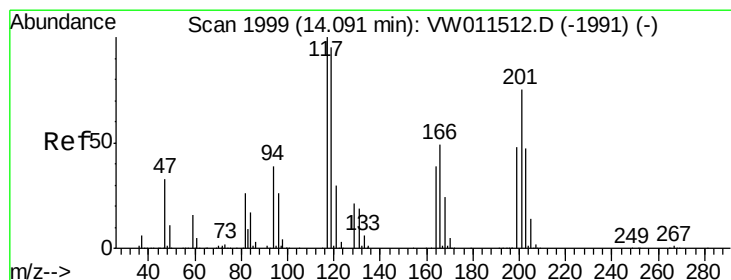
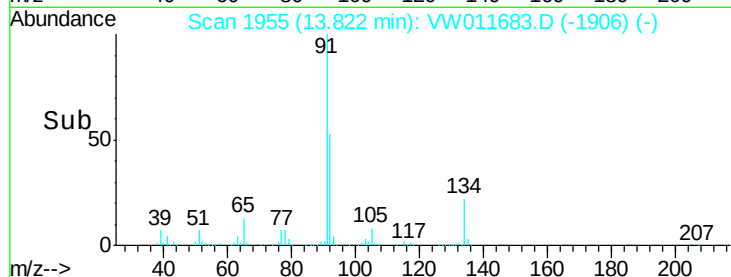
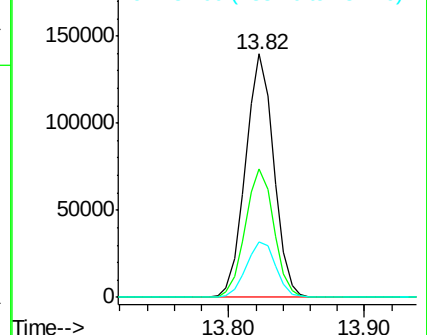
134 23.9 12.2 36.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 19.900 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW011683.D

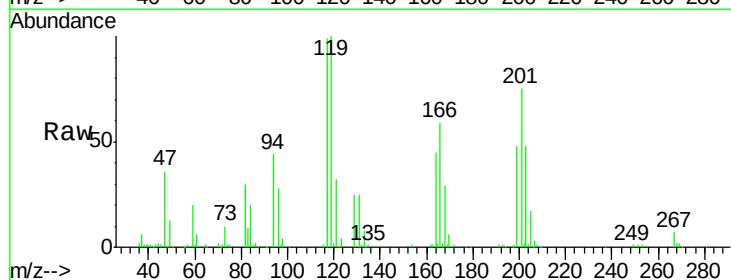
Acq: 04 Aug 2019 00:47

Tgt Ion: 117 Resp: 37629

Ion Ratio Lower Upper

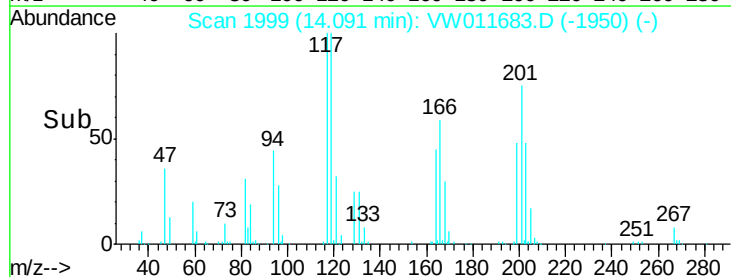
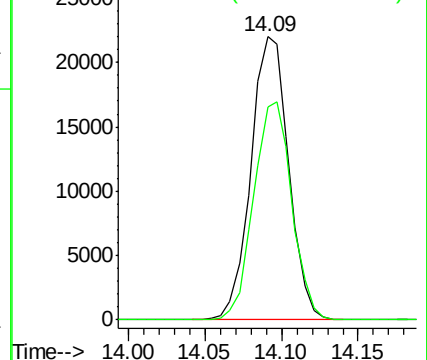
117 100

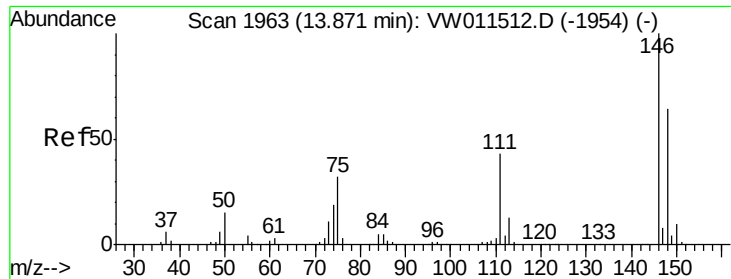
201 78.0 39.4 118.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

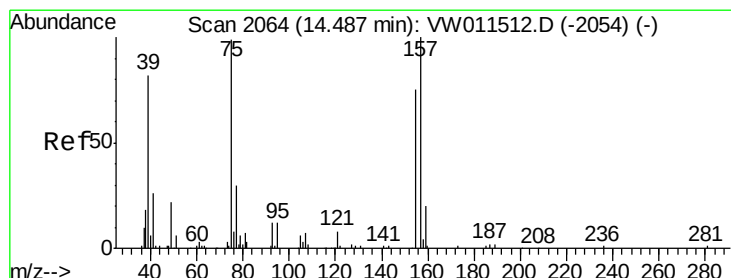
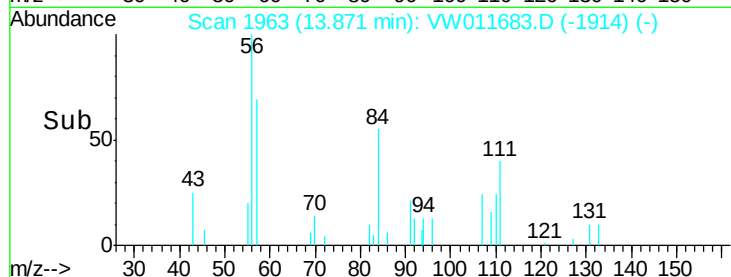
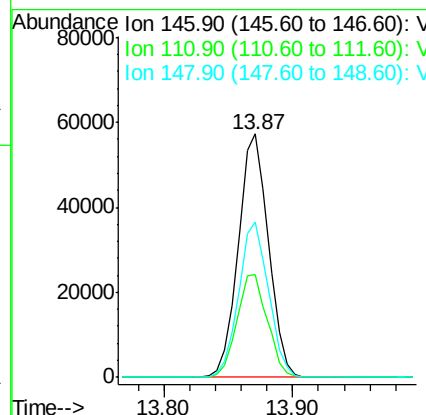
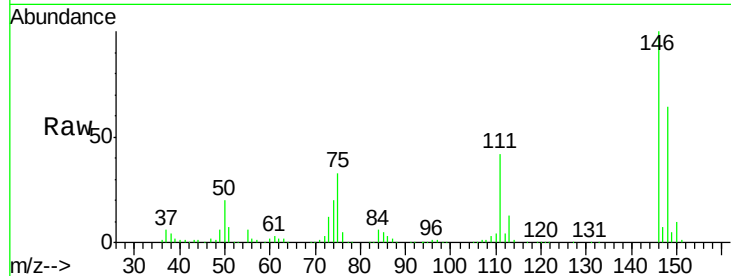




#91  
 1,2-Dichlorobenzene  
 Concen: 20.601 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

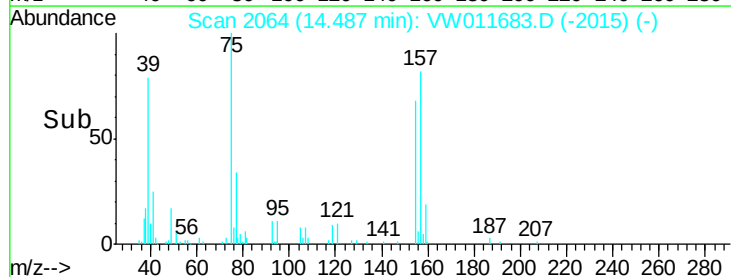
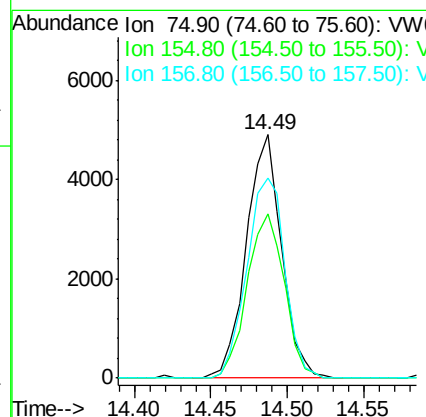
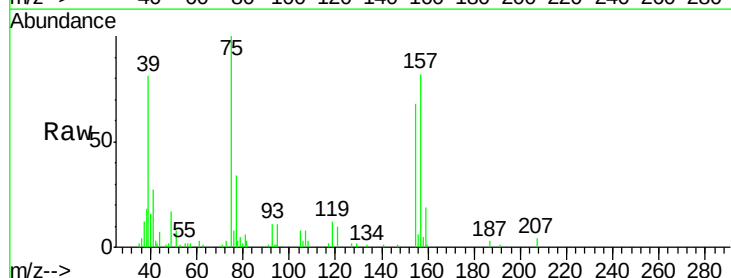
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

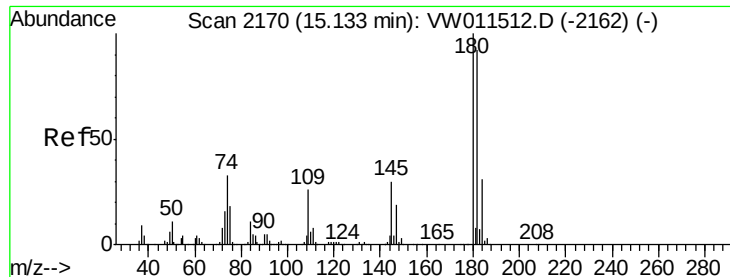
Tot Ion:146 Resp: 93047  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 21.6 65.0  
 148 63.2 32.0 96.2



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.740 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion: 75 Resp: 7839  
 Ion Ratio Lower Upper  
 75 100  
 155 71.5 38.2 114.6  
 157 89.0 48.9 146.7

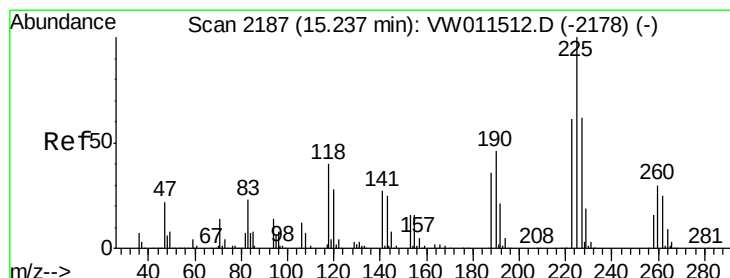
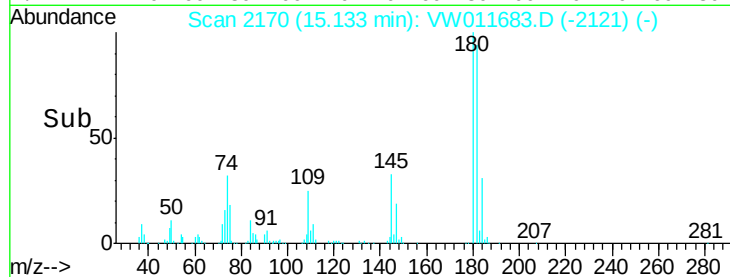
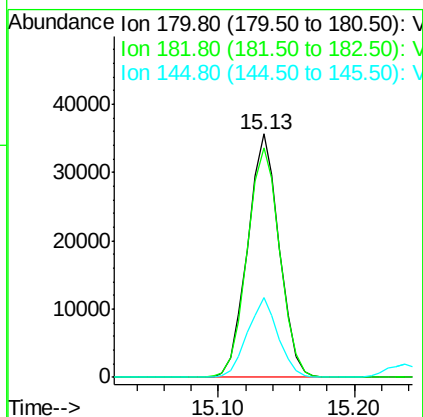
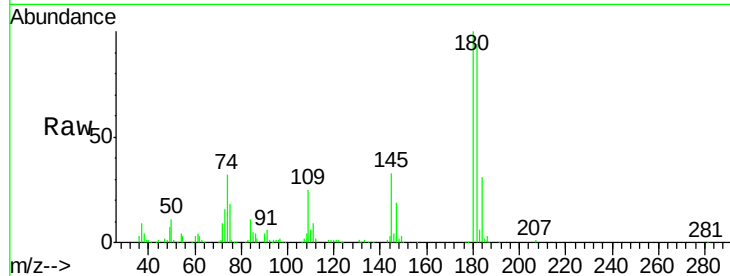




#93  
 1,2,4-Trichlorobenzene  
 Concen: 18.240 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

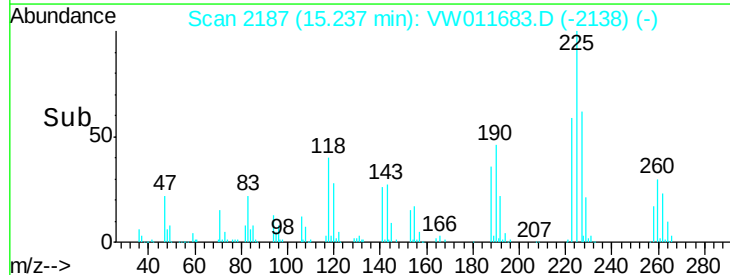
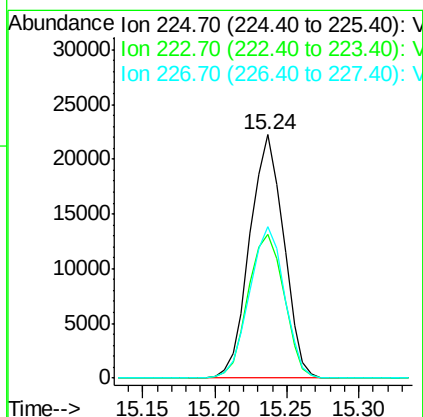
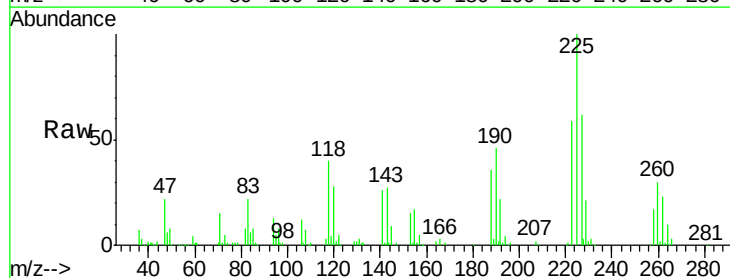
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0804SBSD02

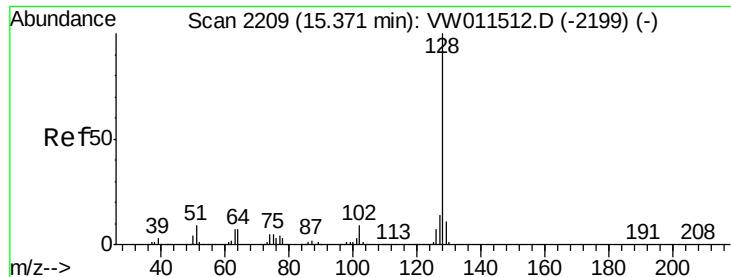
Tot Ion:180 Resp: 58061  
 Ion Ratio Lower Upper  
 180 100  
 182 97.1 47.4 142.2  
 145 31.5 15.4 46.1



#94  
 Hexachlorobutadiene  
 Concen: 18.287 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW011683.D  
 Acq: 04 Aug 2019 00:47

Tgt Ion:225 Resp: 36301  
 Ion Ratio Lower Upper  
 225 100  
 223 62.6 30.8 92.3  
 227 63.6 31.6 94.7

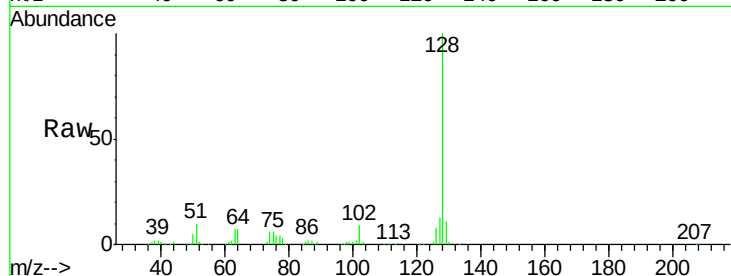




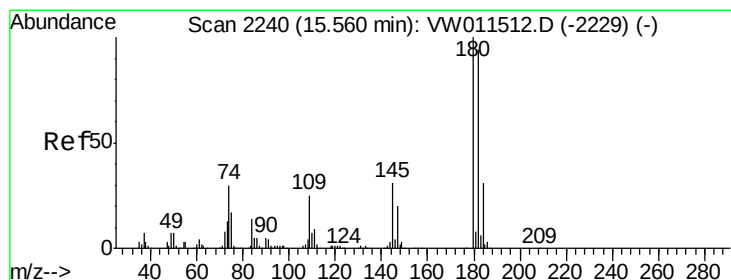
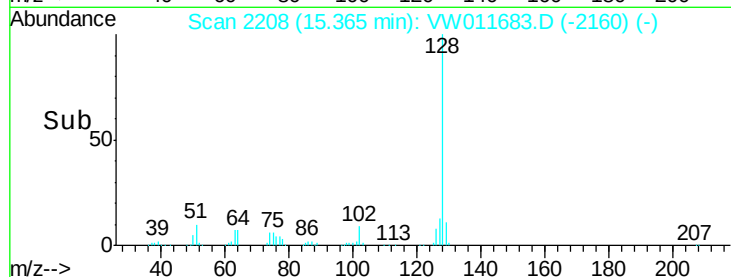
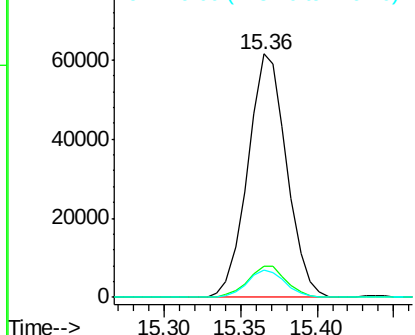
#95  
Naphthalene  
Concen: 18.757 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0804SBSD02

Tot Ion:128 Resp: 108564  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.6 16.0  
129 11.0 8.6 13.0

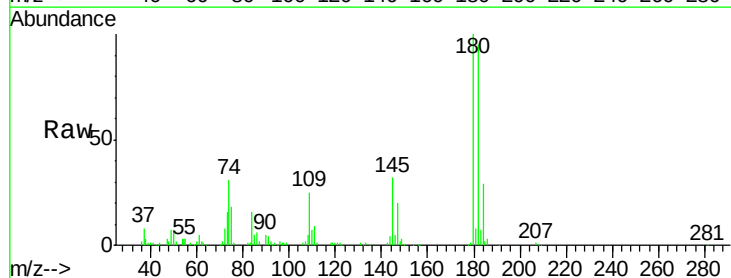


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 18.956 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW011683.D  
Acq: 04 Aug 2019 00:47

Tgt Ion:180 Resp: 52892  
Ion Ratio Lower Upper  
180 100  
182 94.9 47.4 142.2  
145 31.3 15.9 47.7



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

