

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083018\  
 Data File : VW005012.D  
 Acq On : 30 Aug 2018 12:35  
 Operator : SY/AP  
 Sample : VW0830SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 30 14:12:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 30 01:51:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 537105   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 772824   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 817815   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 441909   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 189658   | 51.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.24% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 185084   | 48.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.66%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 1082263  | 51.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.94% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 393759   | 51.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 100211   | 21.60  | ug/l   | 99     |
| 3) Chloromethane              | 2.22 | 50   | 167476   | 25.41  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.36 | 62   | 142713   | 21.70  | ug/l   | 97     |
| 5) Bromomethane               | 2.78 | 94   | 93310    | 21.70  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64   | 83095    | 21.36  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 128583   | 18.91  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.69 | 74   | 43574    | 22.53  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 81437    | 19.40  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.28 | 142  | 78827    | 14.22  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59   | 23892    | 89.75  | ug/l # | 73     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 77940    | 19.87  | ug/l   | 99     |
| 13) Acrolein                  | 3.91 | 56   | 21592    | 68.92  | ug/l   | 99     |
| 14) Allyl chloride            | 4.68 | 41   | 121118   | 20.06  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.39 | 53   | 97820    | 99.19  | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43   | 80766    | 97.48  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.38 | 76   | 327702   | 19.88  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.68 | 43   | 49958    | 24.89  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 188055   | 22.31  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.92 | 84   | 152562   | 23.58  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 89817    | 21.09  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.32 | 45   | 272298   | 22.09  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.26 | 43   | 634981   | 100.74 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.22 | 63   | 157132   | 21.07  | ug/l   | 100    |
| 25) 2-Butanone                | 7.18 | 43   | 135045   | 104.52 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 111377   | 17.01  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96   | 97164    | 20.97  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.52 | 49   | 67898    | 20.70  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 70547    | 108.09 | ug/l   | 97     |
| 30) Chloroform                | 7.68 | 83   | 155187   | 21.15  | ug/l   | 100    |
| 31) Cyclohexane               | 7.96 | 56   | 158315   | 20.03  | ug/l # | 92     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97   | 139452   | 20.66  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 129706   | 19.81  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 48835    | 20.69  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 120466   | 19.01  | ug/l   | 99     |

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 Sample : VW0830SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 30 14:12:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 30 01:51:13 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 167761   | 18.58  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 421589   | 20.11  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 29335    | 21.33  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 95709    | 20.52  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 94530    | 20.13  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 105559   | 19.72  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 99531    | 20.75  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 46231    | 20.37  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 116745   | 20.82  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.44  | 41   | 49833    | 19.70  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.49  | 88   | 18553    | 393.89 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 352127   | 100.11 | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 325091   | 20.91  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 112713   | 18.82  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 136177   | 19.50  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 73980    | 19.91  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 100128   | 20.55  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 123993   | 20.28  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 202889   | 96.64  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 249212   | 97.85  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 79041    | 19.39  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 68696    | 19.72  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 129953   | 21.79  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 357400   | 19.89  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 92942    | 18.83  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 619841   | 20.15  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.85 | 106  | 510510   | 40.68  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 238846   | 20.83  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 388218   | 20.41  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 49035    | 17.87  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 622191   | 21.12  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 111825   | 20.12  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 87380    | 19.59  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 116023   | 37.07  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 149420   | 20.67  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 771627   | 21.24  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 446606   | 21.28  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 552172   | 21.22  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 23185    | 16.74  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 469151   | 20.98  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 458890   | 20.99  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 555539   | 21.04  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 669085   | 20.85  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 594111   | 20.67  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 311608   | 20.34  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 304022   | 20.03  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 538733   | 19.96  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 86229    | 19.08  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 277670   | 20.59  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 15107    | 19.61  | ug/l   | 97       |

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Sample : VW0830SBS01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

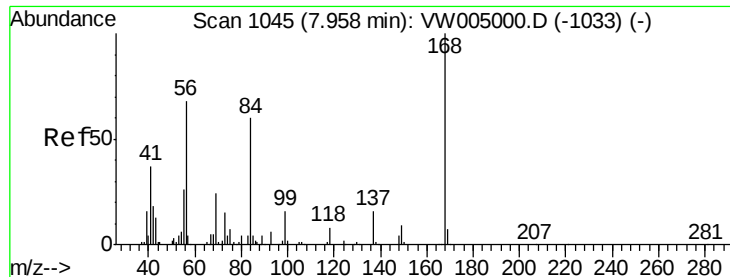
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 30 14:12:20 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 30 01:51:13 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 185365   | 19.62 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 108203   | 18.29 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 315213   | 20.60 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 163723   | 19.61 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

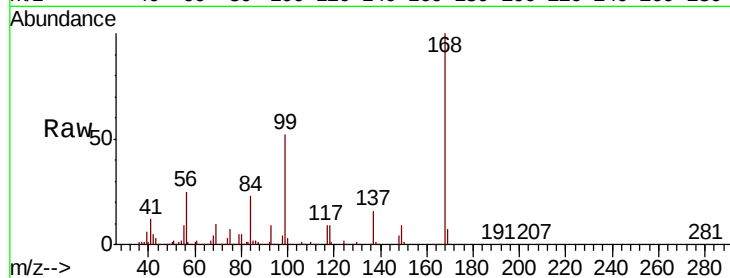
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 537105

Ion Ratio Lower Upper

168 100

99 52.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

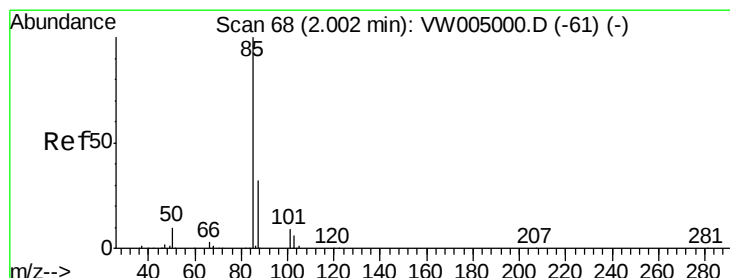
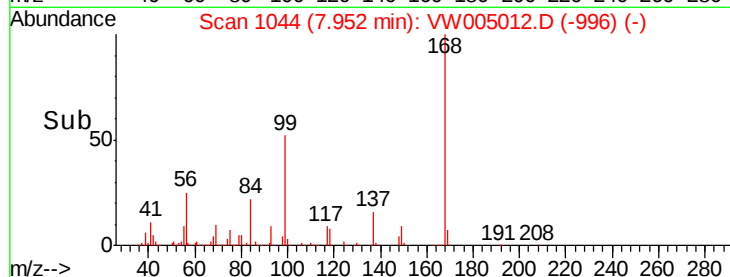
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 21.60 ug/l

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW005012.D

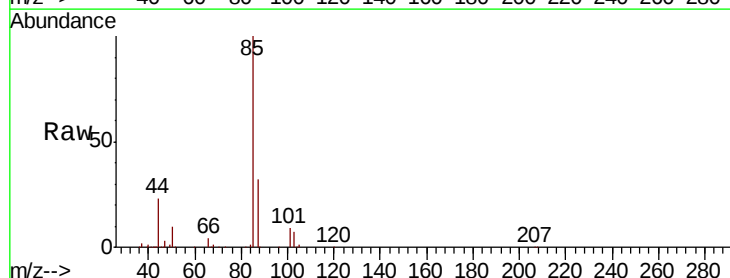
Acq: 30 Aug 2018 12:35

Tgt Ion: 85 Resp: 100211

Ion Ratio Lower Upper

85 100

87 32.2 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

80000

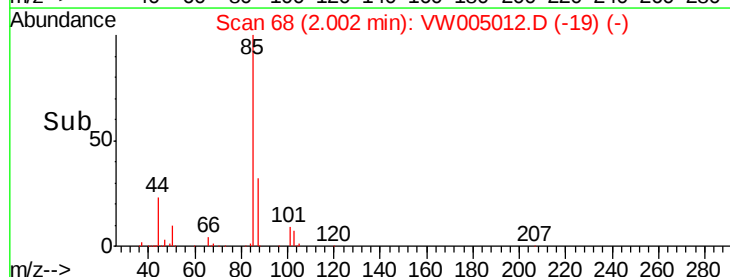
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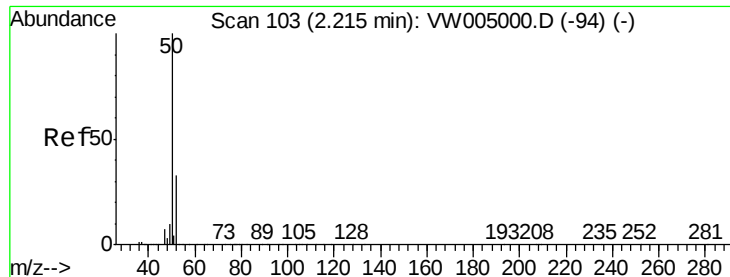
40000

20000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 25.41 ug/l

RT: 2.22 min Scan# 103

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

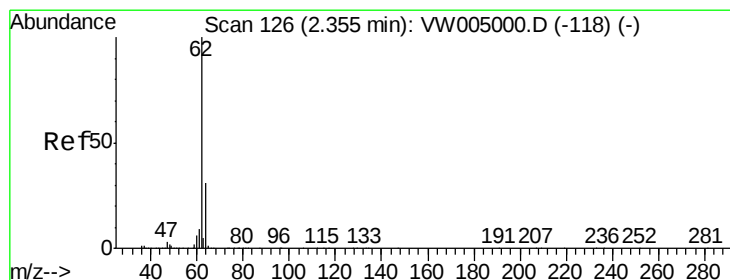
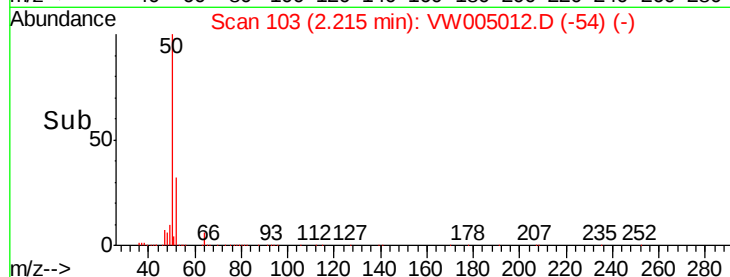
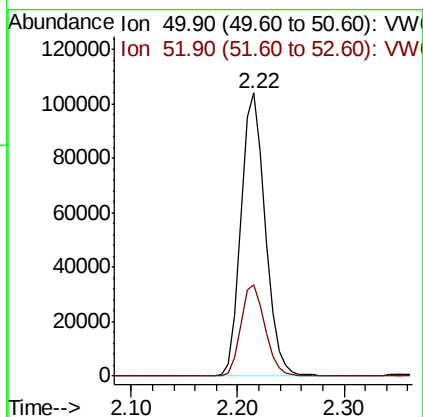
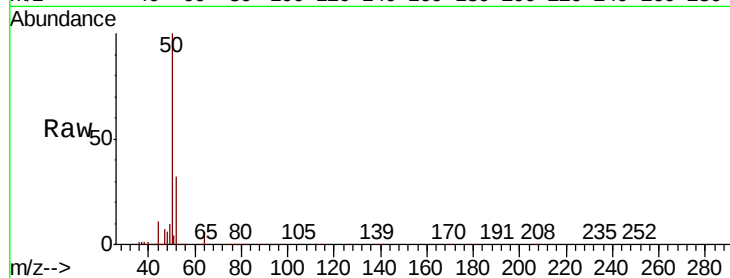
ClientSampleId :

Tot Ion: 50 Resp: 167476

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1



#4

Vinyl Chloride

Concen: 21.70 ug/l

RT: 2.36 min Scan# 126

Delta R.T. -0.00 min

Lab File: VW005012.D

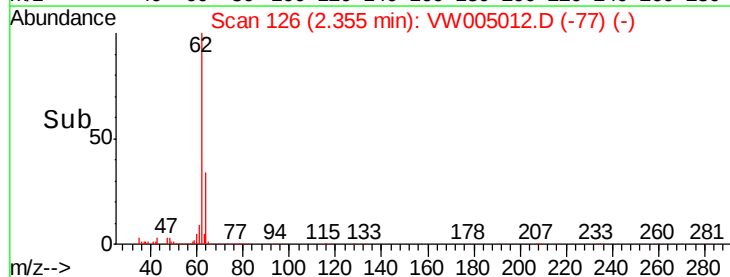
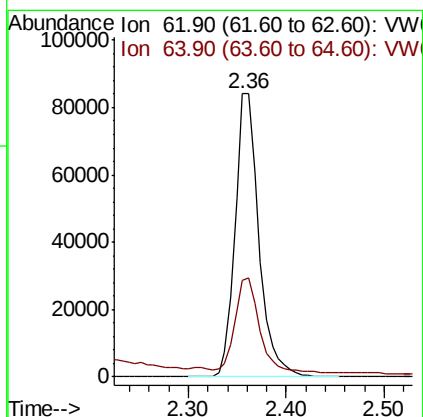
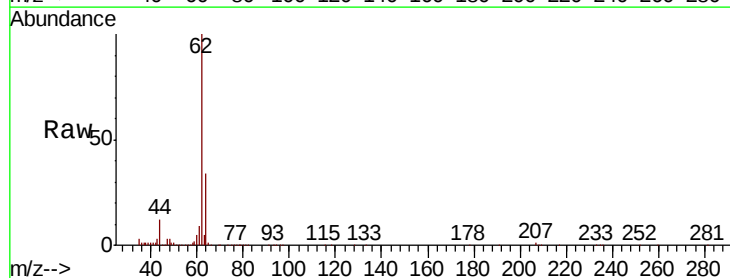
Acq: 30 Aug 2018 12:35

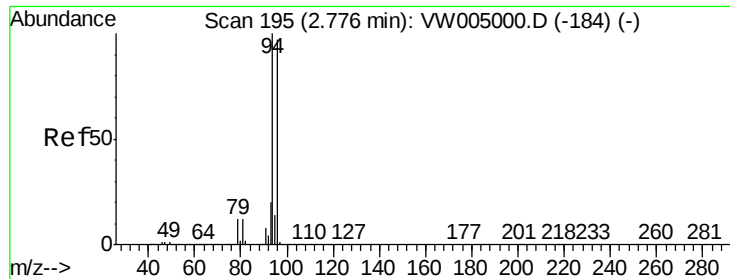
Tgt Ion: 62 Resp: 142713

Ion Ratio Lower Upper

62 100

64 32.6 24.8 37.2





#5

Bromomethane

Concen: 21.70 ug/l

RT: 2.78 min Scan# 195

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

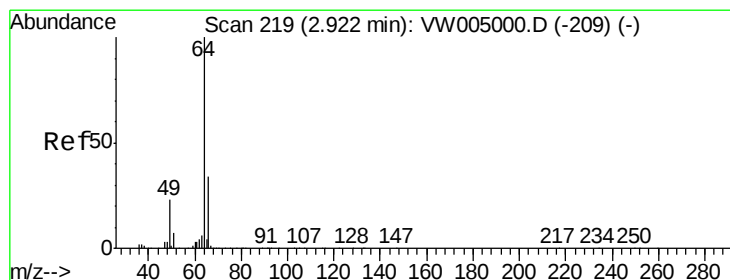
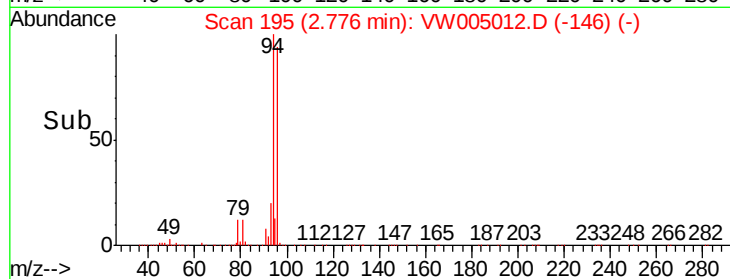
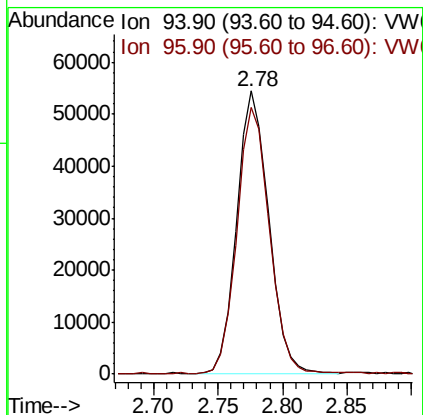
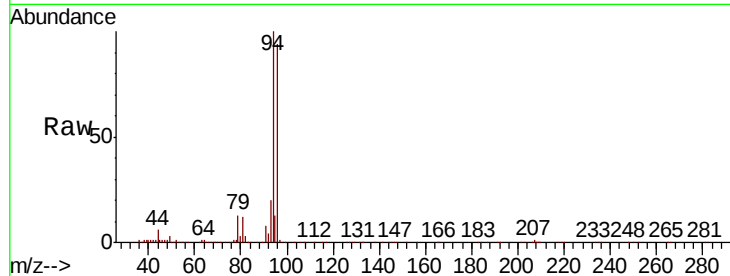
ClientSampleId :

Tot Ion: 94 Resp: 93310

Ion Ratio Lower Upper

94 100

96 94.0 77.5 116.3



#6

Chloroethane

Concen: 21.36 ug/l

RT: 2.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VW005012.D

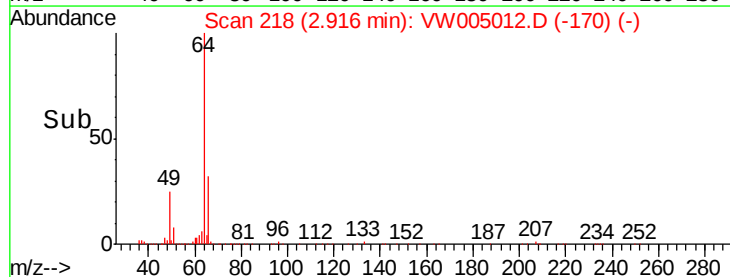
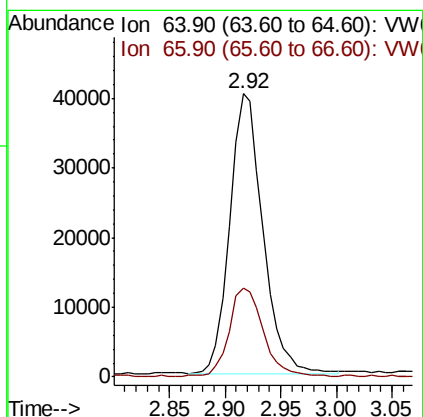
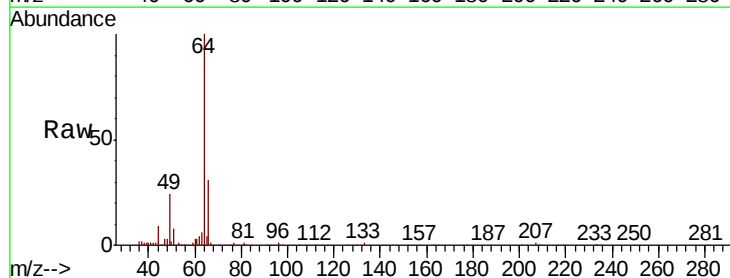
Acq: 30 Aug 2018 12:35

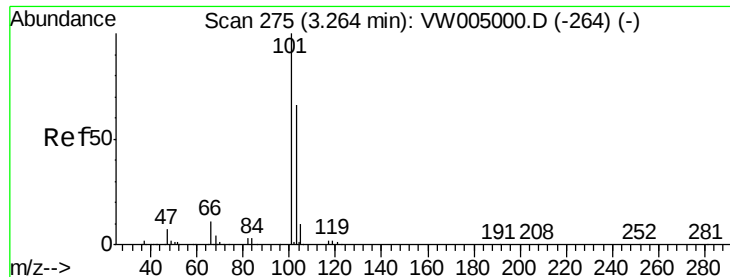
Tgt Ion: 64 Resp: 83095

Ion Ratio Lower Upper

64 100

66 31.2 26.8 40.2



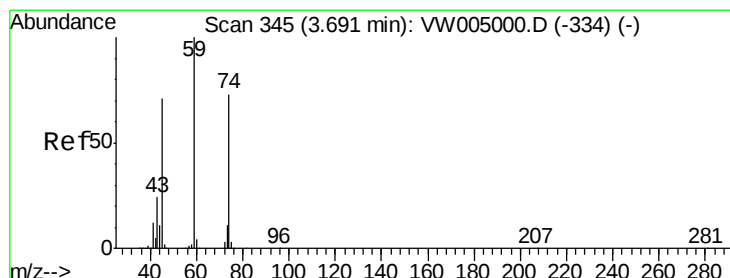
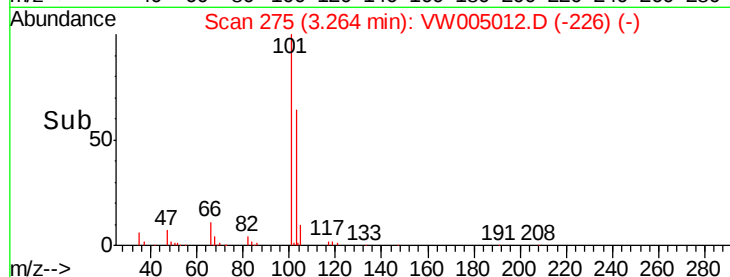
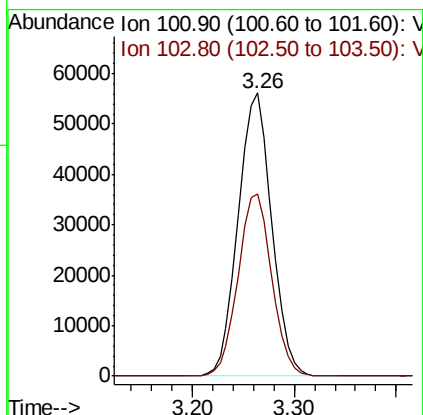
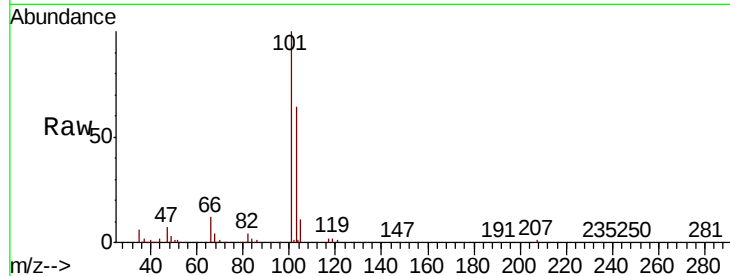


#7

Trichlorofluoromethane  
 Concen: 18.91 ug/l  
 RT: 3.26 min Scan# 275  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Instrument :  
 MSVOA\_W  
 ClientSampleId :

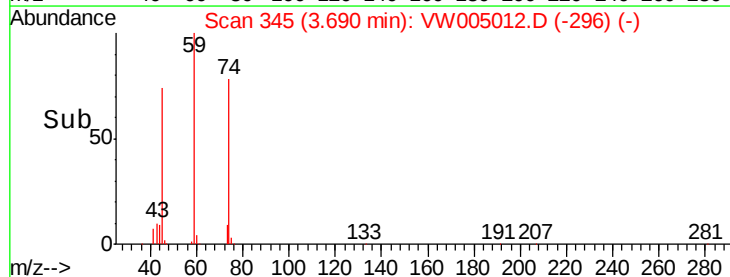
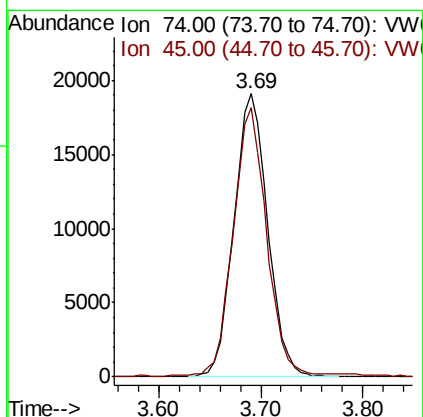
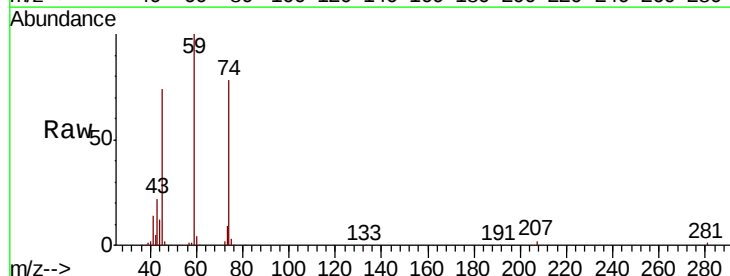
Tot Ion:101 Resp: 128583  
 Ion Ratio Lower Upper  
 101 100  
 103 64.5 52.6 78.8

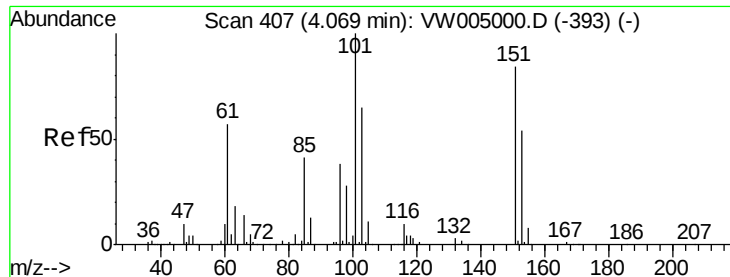


#8

Diethyl Ether  
 Concen: 22.53 ug/l  
 RT: 3.69 min Scan# 345  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 74 Resp: 43574  
 Ion Ratio Lower Upper  
 74 100  
 45 95.5 47.8 143.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.40 ug/l

RT: 4.06 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

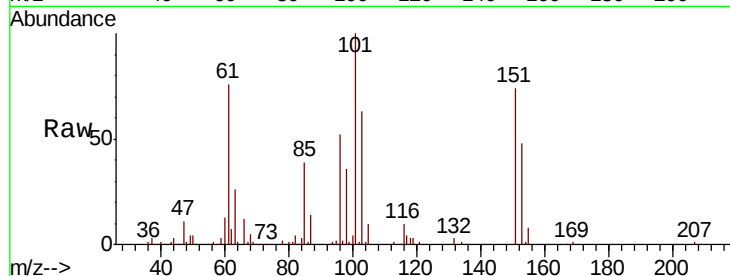
Tot Ion:101 Resp: 81437

Ion Ratio Lower Upper

101 100

85 40.9 33.4 50.0

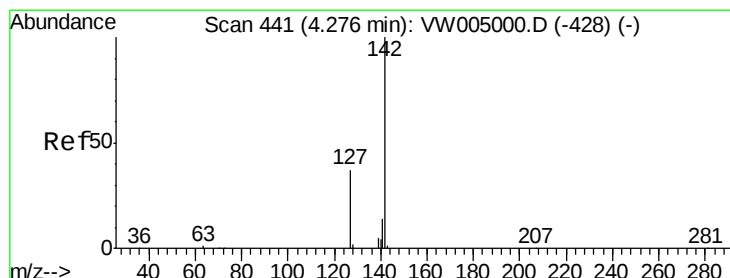
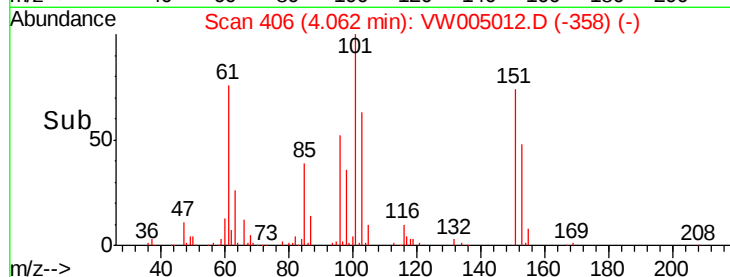
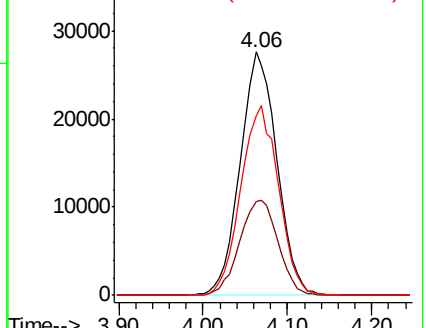
151 80.5 67.0 100.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 14.22 ug/l

RT: 4.28 min Scan# 441

Delta R.T. 0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

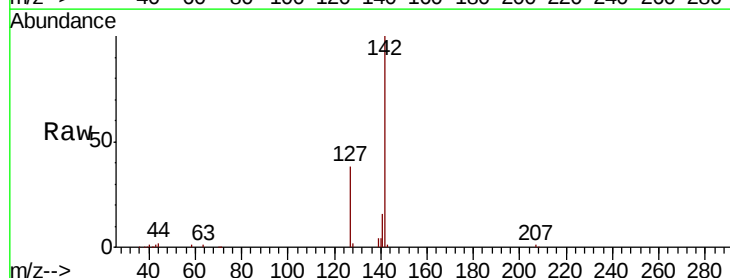
Tgt Ion:142 Resp: 78827

Ion Ratio Lower Upper

142 100

127 38.5 31.1 46.7

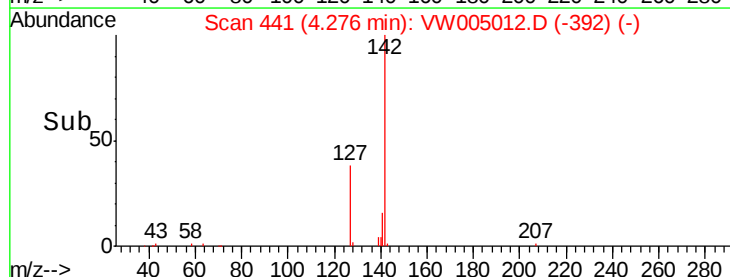
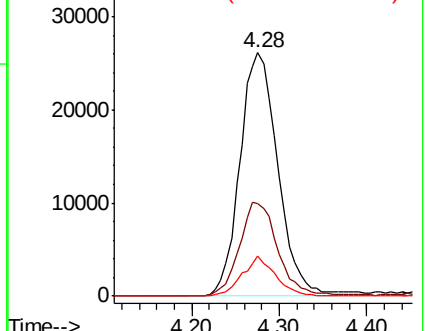
141 14.4 11.4 17.2

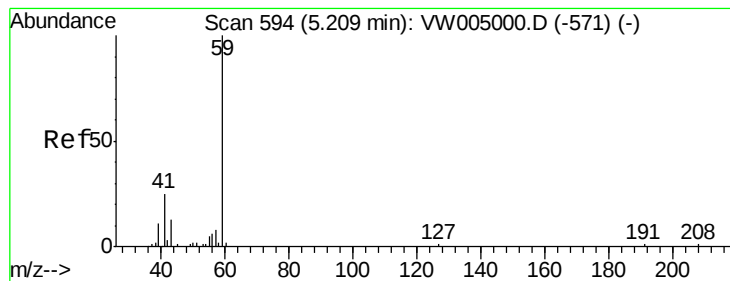


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



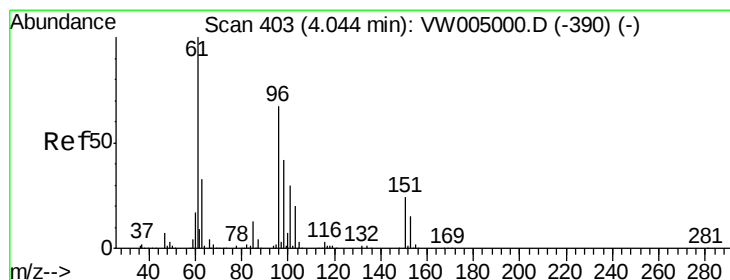
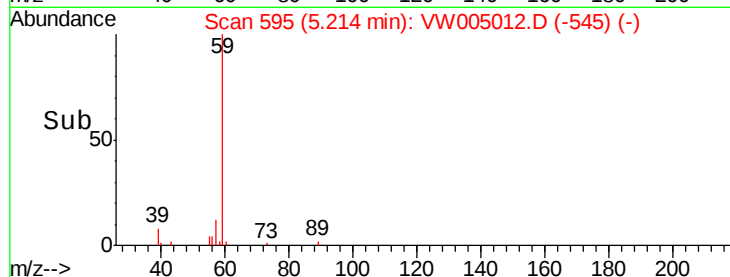
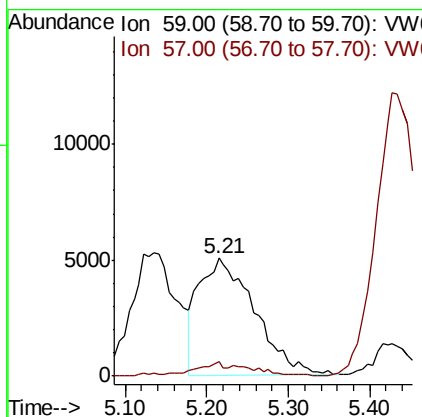
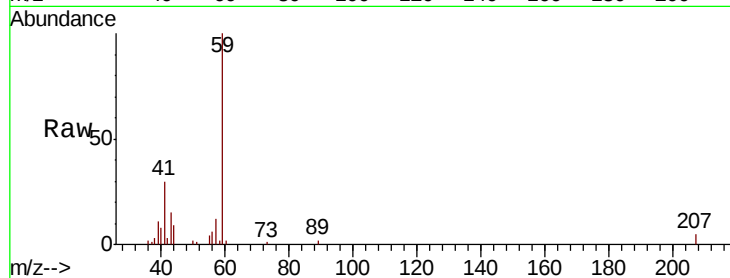


#11

Tert butyl alcohol  
 Concen: 89.75 ug/l  
 RT: 5.21 min Scan# 595  
 Delta R.T. 0.01 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Instrument :  
 MSVOA\_W  
 ClientSampled :

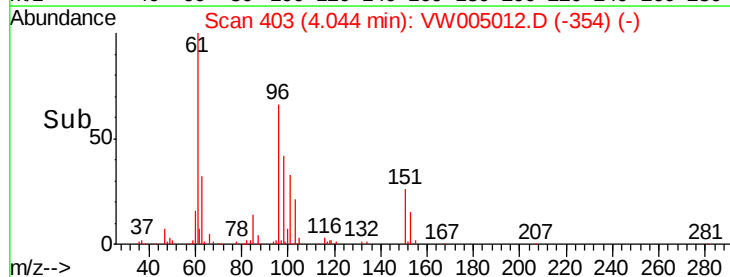
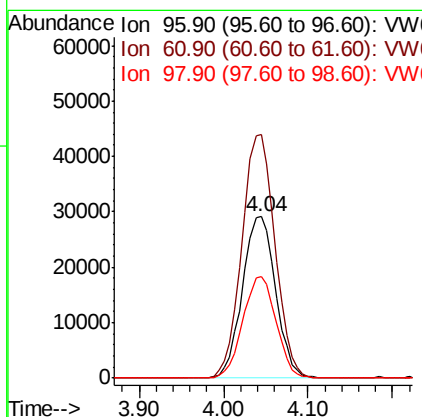
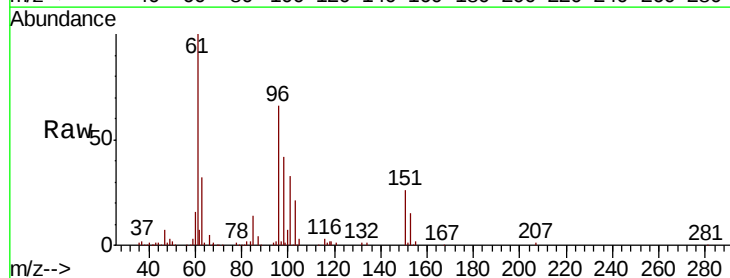
Tot Ion: 59 Resp: 23892  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.1 12.1#

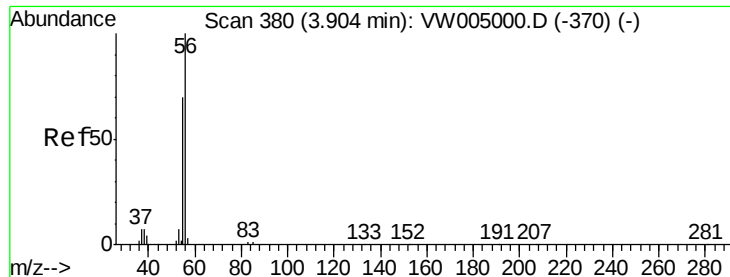


#12

1,1-Dichloroethene  
 Concen: 19.87 ug/l  
 RT: 4.04 min Scan# 403  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 96 Resp: 77940  
 Ion Ratio Lower Upper  
 96 100  
 61 150.9 119.5 179.3  
 98 63.2 50.4 75.6





#13

Acrolein

Concen: 68.92 ug/l

RT: 3.91 min Scan# 381

Delta R.T. 0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

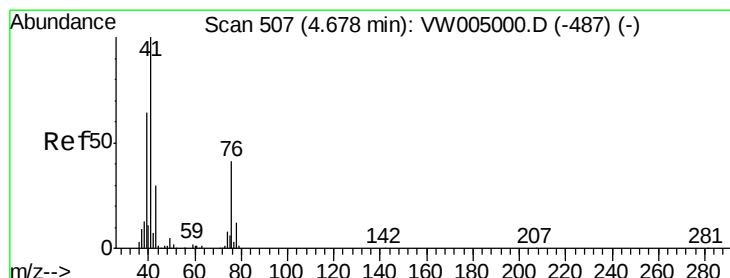
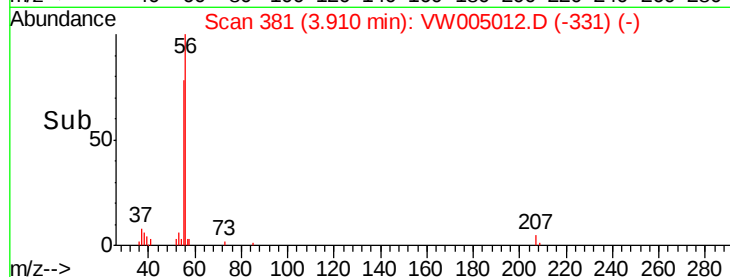
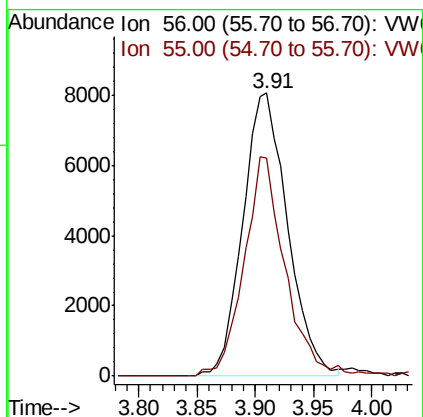
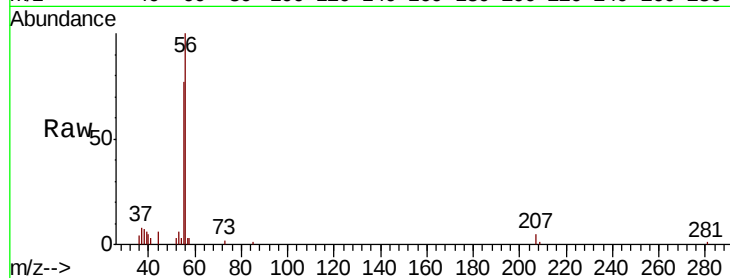
ClientSampleId :

Tot Ion: 56 Resp: 21592

Ion Ratio Lower Upper

56 100

55 71.4 56.4 84.6



#14

Allyl chloride

Concen: 20.06 ug/l

RT: 4.68 min Scan# 507

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

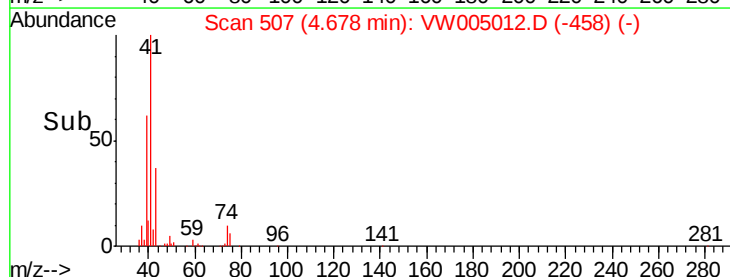
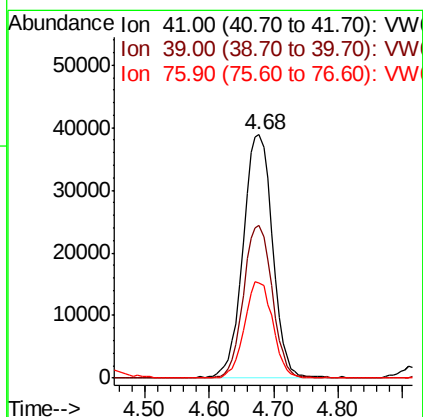
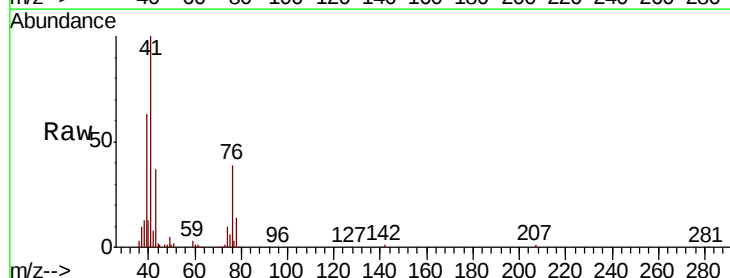
Tgt Ion: 41 Resp: 121118

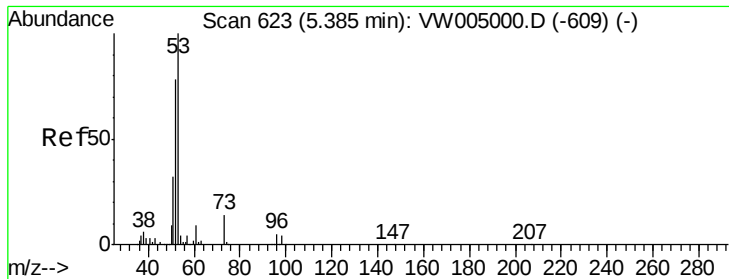
Ion Ratio Lower Upper

41 100

39 61.9 49.4 74.2

76 38.1 31.4 47.2

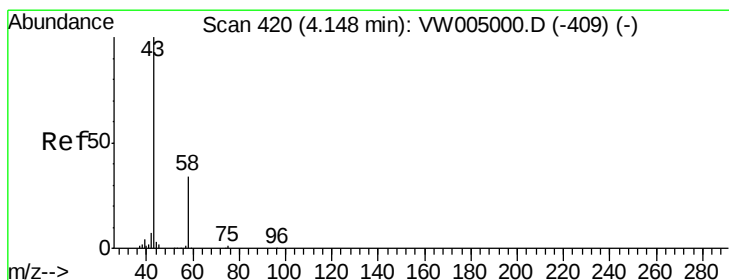
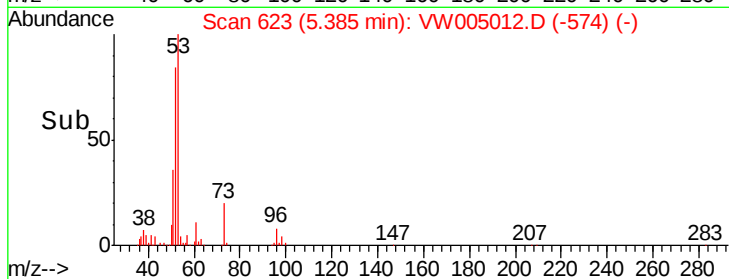
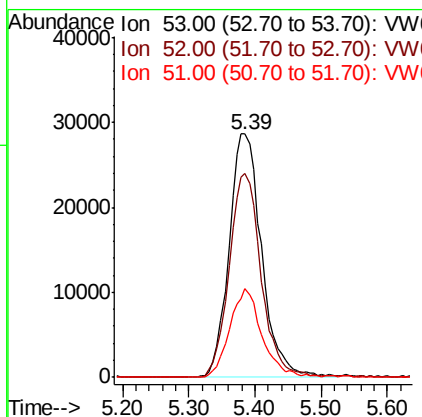
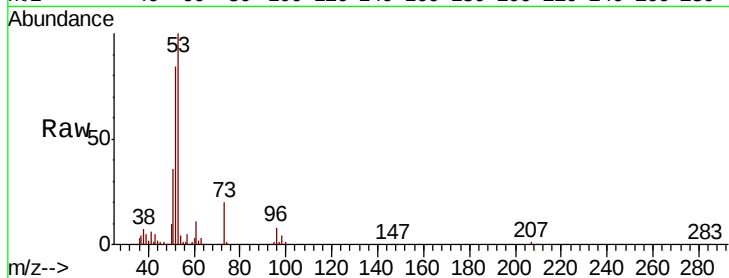




#15  
 Acrylonitrile  
 Concen: 99.19 ug/l  
 RT: 5.39 min Scan# 623  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

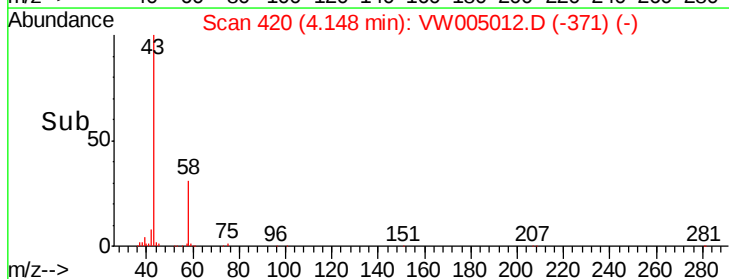
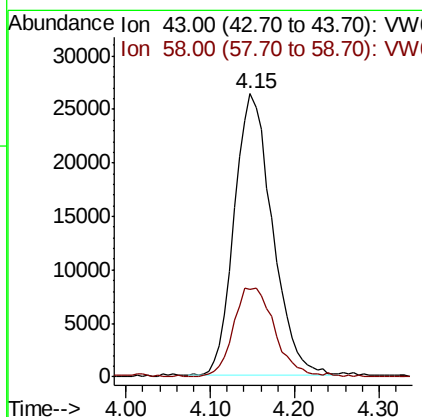
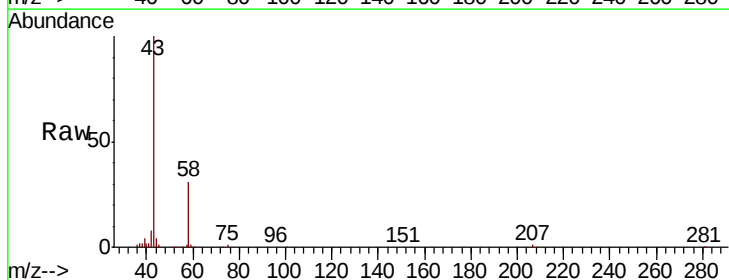
Instrument :  
 MSVOA\_W  
 ClientSampleId :

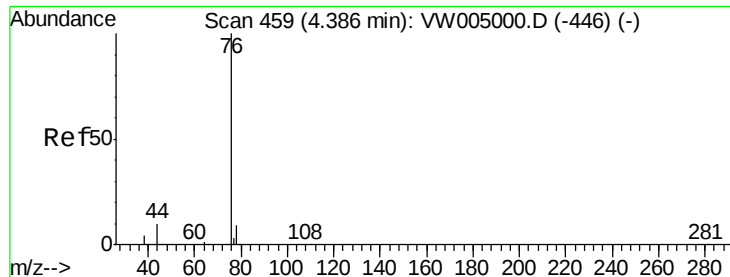
| Tot Ion | 53    | Resp  | 97820 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 53      | 100   |       |       |
| 52      | 82.4  | 65.0  | 97.6  |
| 51      | 36.1  | 28.6  | 43.0  |



#16  
 Acetone  
 Concen: 97.48 ug/l  
 RT: 4.15 min Scan# 420  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

| Tgt Ion | 43    | Resp  | 80766 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 43      | 100   |       |       |
| 58      | 31.3  | 27.2  | 40.8  |

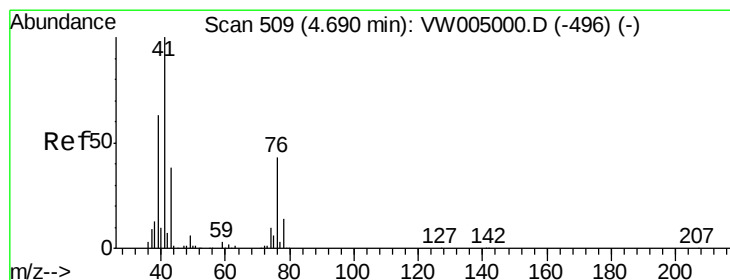
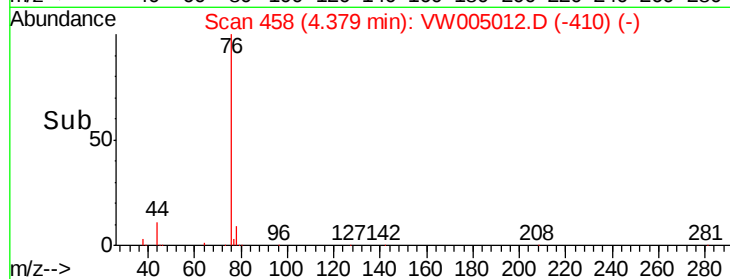
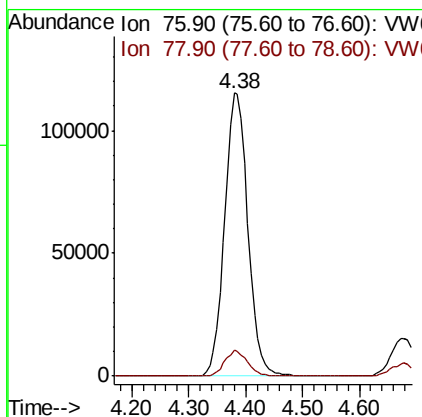
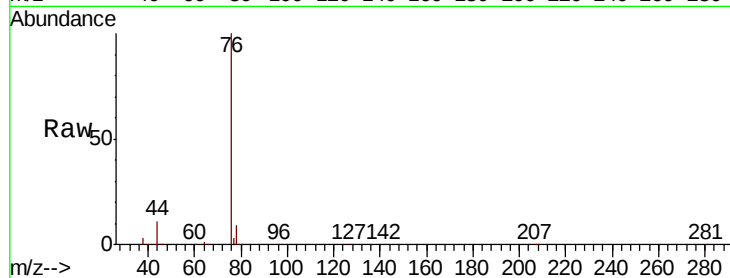




#17  
Carbon Disulfide  
Concen: 19.88 ug/l  
RT: 4.38 min Scan# 458  
Delta R.T. -0.01 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

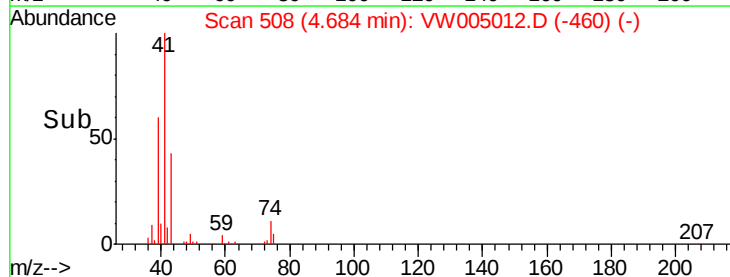
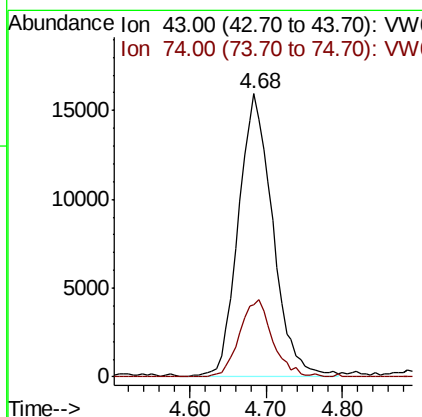
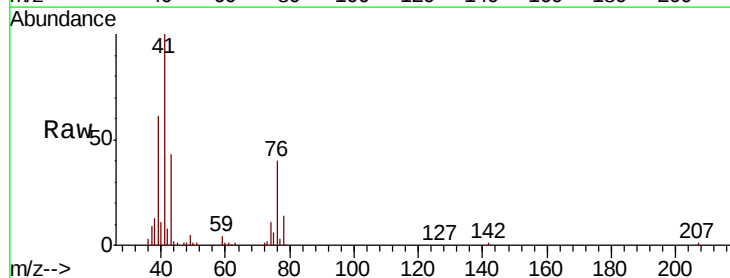
Instrument :  
MSVOA\_W  
ClientSampled :

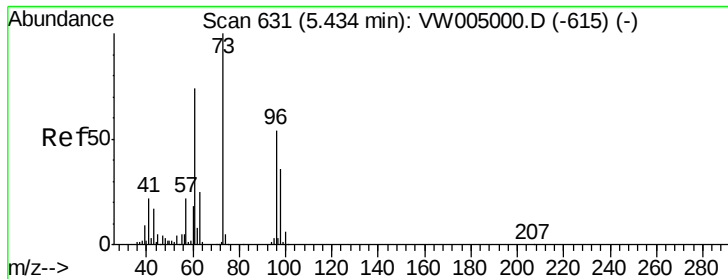
Tot Ion: 76 Resp: 327702  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.4 11.2



#18  
Methyl Acetate  
Concen: 24.89 ug/l  
RT: 4.68 min Scan# 508  
Delta R.T. -0.01 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 43 Resp: 49958  
Ion Ratio Lower Upper  
43 100  
74 26.2 20.3 30.5

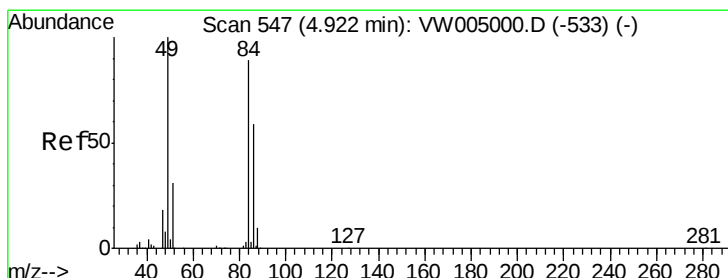
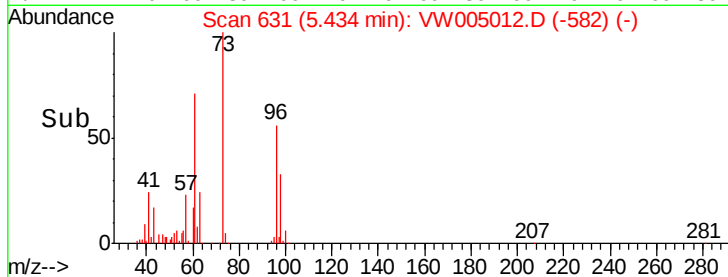
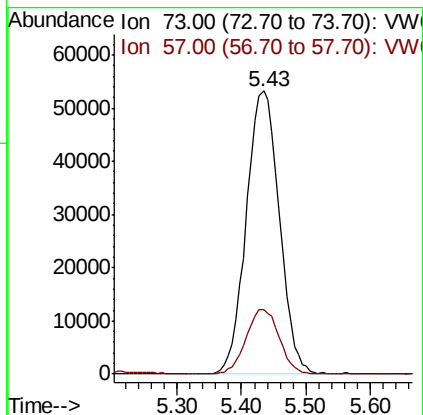
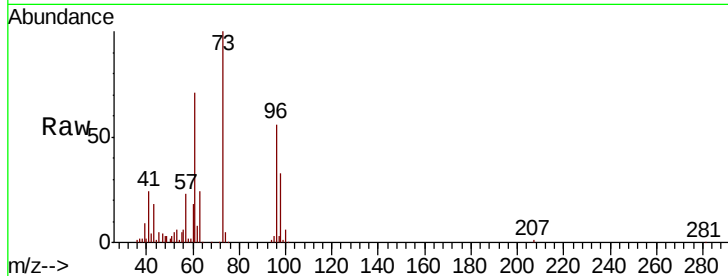




#19  
Methvl tert-butvl Ether  
Concen: 22.31 ug/l  
RT: 5.43 min Scan# 631  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

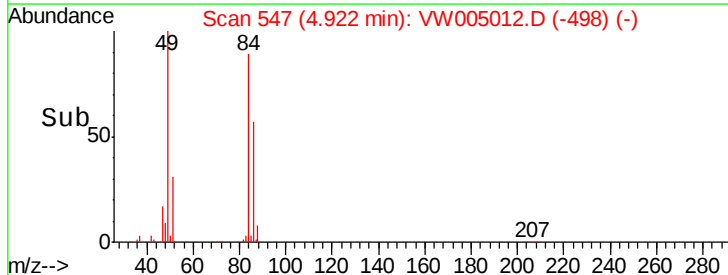
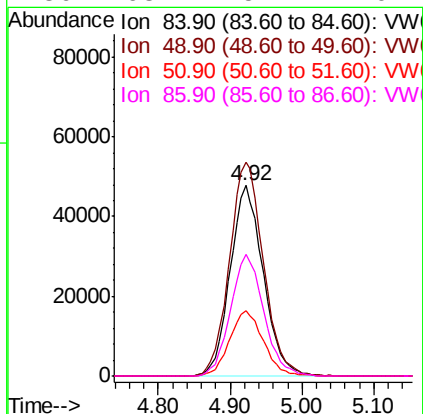
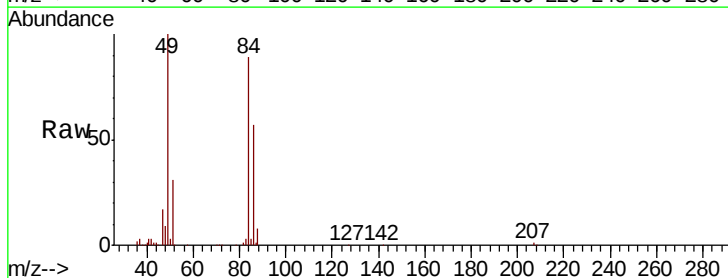
Instrument :  
MSVOA\_W  
ClientSampleId :

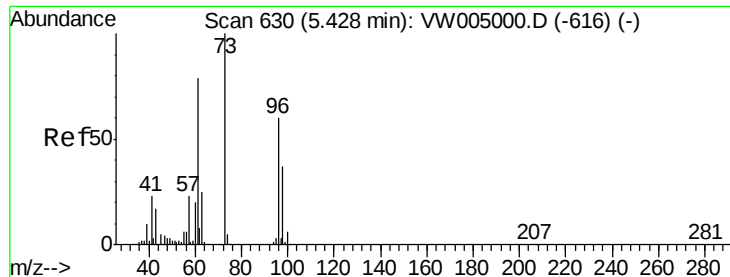
Tot Ion: 73 Resp: 188055  
Ion Ratio Lower Upper  
73 100  
57 22.8 17.6 26.4



#20  
Methylene Chloride  
Concen: 23.58 ug/l  
RT: 4.92 min Scan# 547  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 84 Resp: 152562  
Ion Ratio Lower Upper  
84 100  
49 112.1 89.7 134.5  
51 34.5 27.5 41.3  
86 63.7 52.7 79.1





#21

trans-1,2-Dichloroethene

Concen: 21.09 ug/l

RT: 5.43 min Scan# 630

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampled :

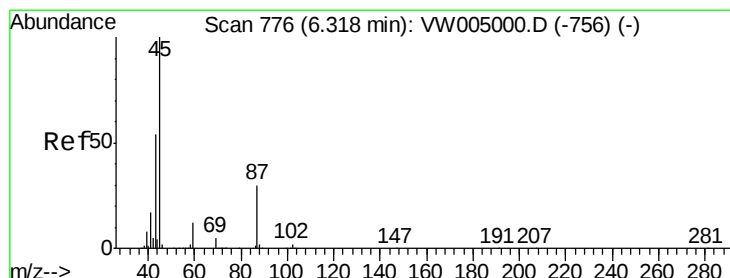
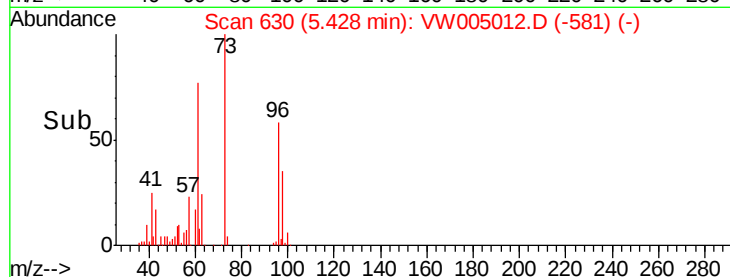
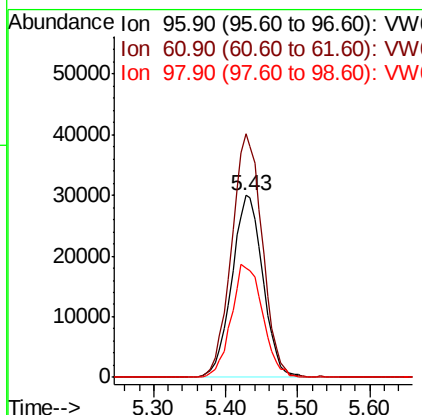
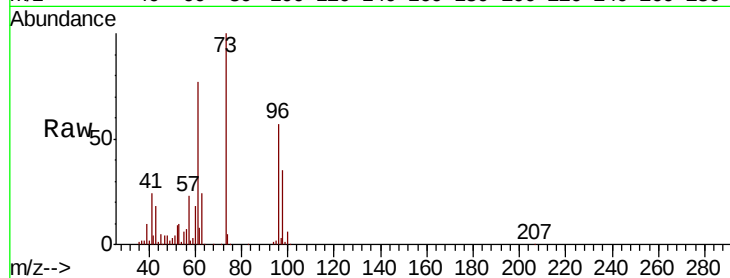
Tot Ion: 96 Resp: 89817

Ion Ratio Lower Upper

96 100

61 133.7 106.2 159.2

98 60.2 49.5 74.3



#22

Diisopropyl ether

Concen: 22.09 ug/l

RT: 6.32 min Scan# 777

Delta R.T. 0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Tgt Ion: 45 Resp: 272298

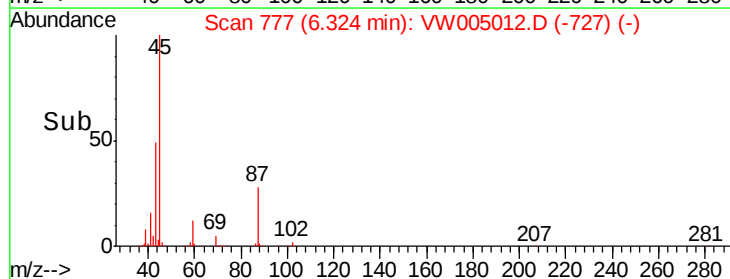
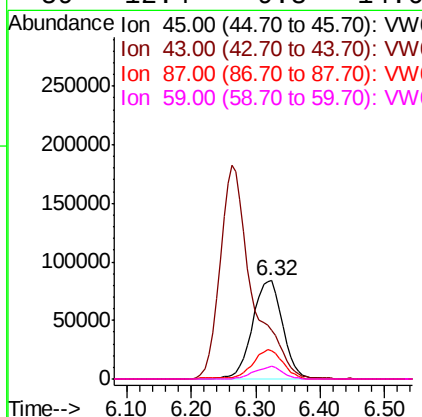
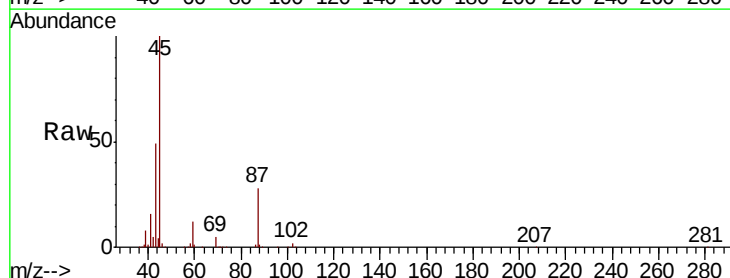
Ion Ratio Lower Upper

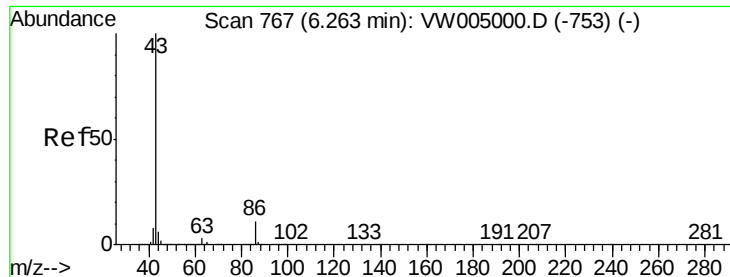
45 100

43 49.2 43.5 65.3

87 28.3 23.8 35.8

59 12.4 9.8 14.6





#23

Vinyl Acetate

Concen: 100.74 ug/l

RT: 6.26 min Scan# 767

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

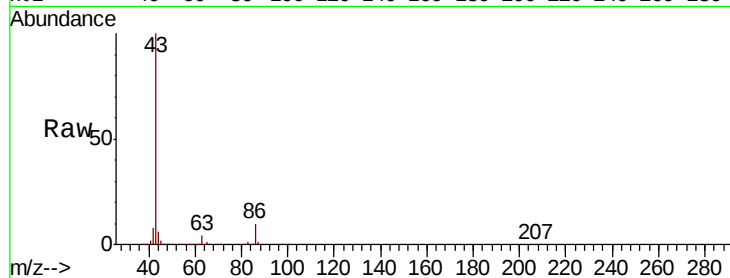
ClientSampled :

Tot Ion: 43 Resp: 634981

Ion Ratio Lower Upper

43 100

86 10.5 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

200000

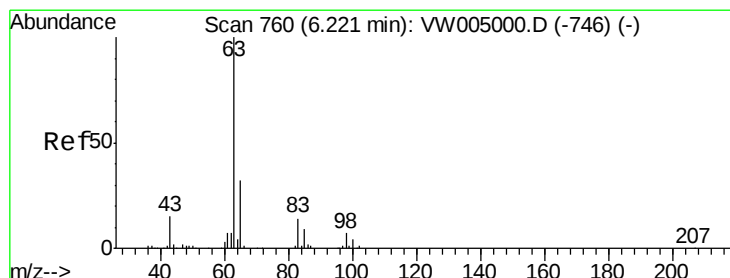
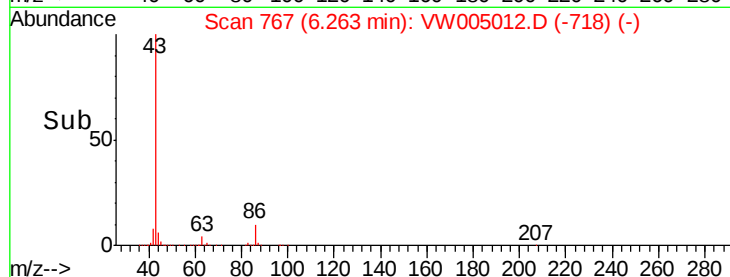
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.07 ug/l

RT: 6.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

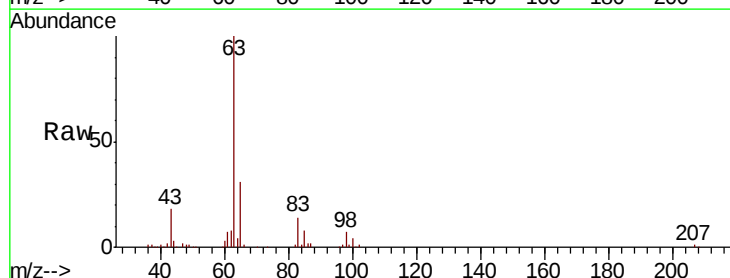
Tgt Ion: 63 Resp: 157132

Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.2

100 4.4 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

6.22

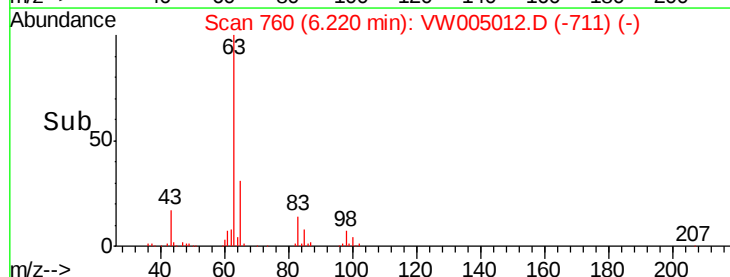
60000

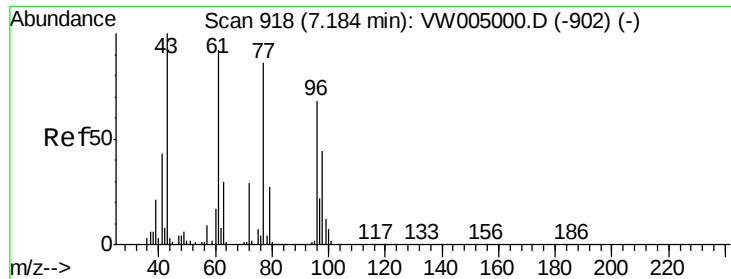
40000

20000

0

Time-->





#25

2-Butanone

Concen: 104.52 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

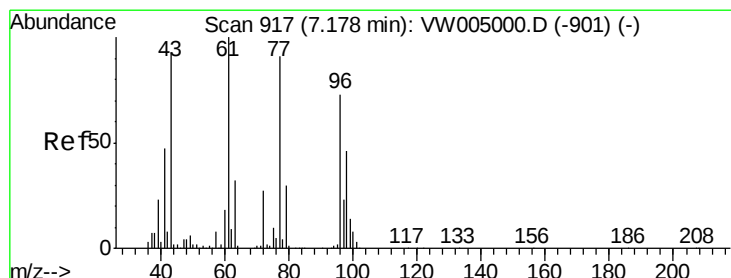
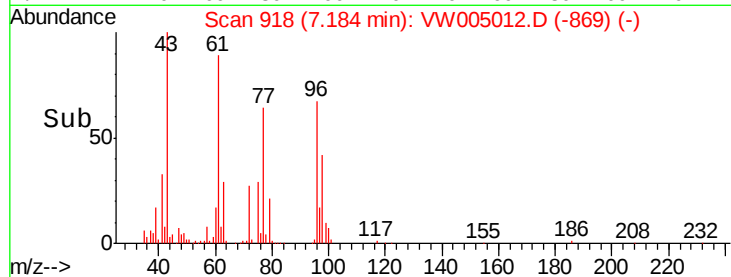
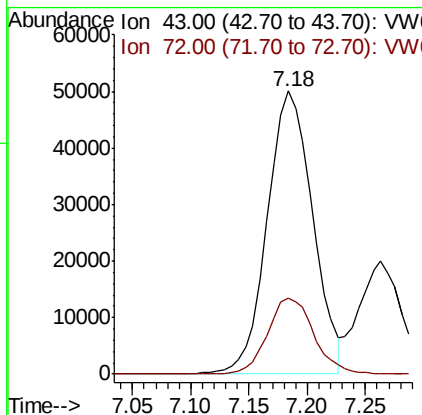
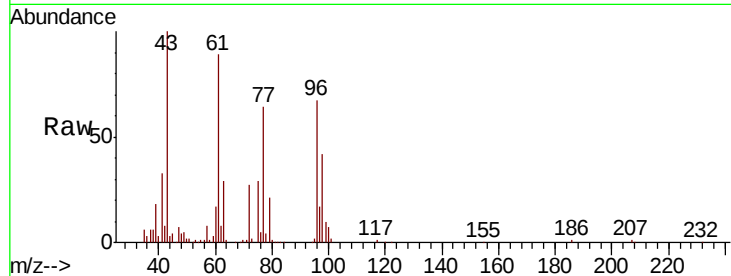
ClientSampled :

Tot Ion: 43 Resp: 135045

Ion Ratio Lower Upper

43 100

72 26.7 23.4 35.2



#26

2,2-Dichloropropane

Concen: 17.01 ug/l

RT: 7.17 min Scan# 916

Delta R.T. -0.01 min

Lab File: VW005012.D

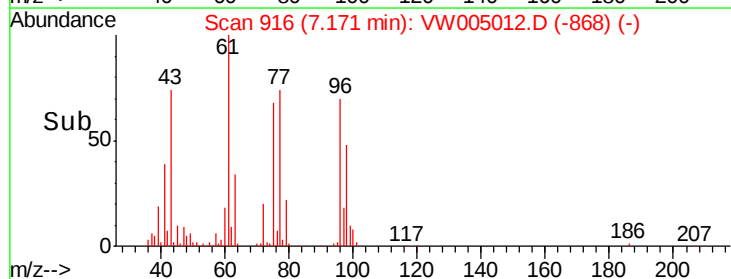
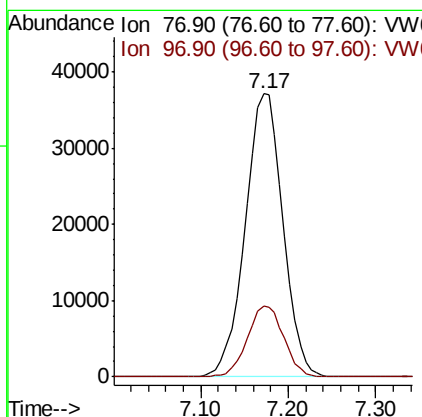
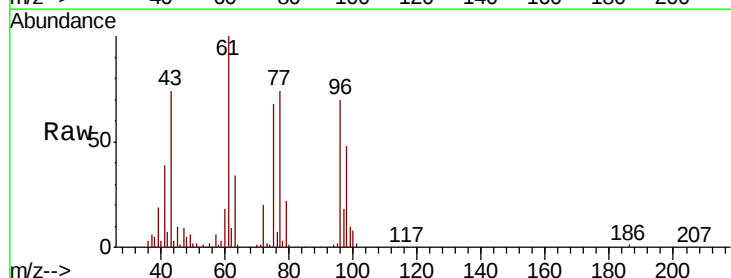
Acq: 30 Aug 2018 12:35

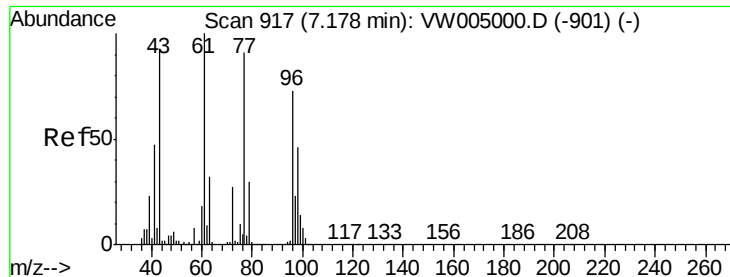
Tgt Ion: 77 Resp: 111377

Ion Ratio Lower Upper

77 100

97 24.0 12.2 36.4



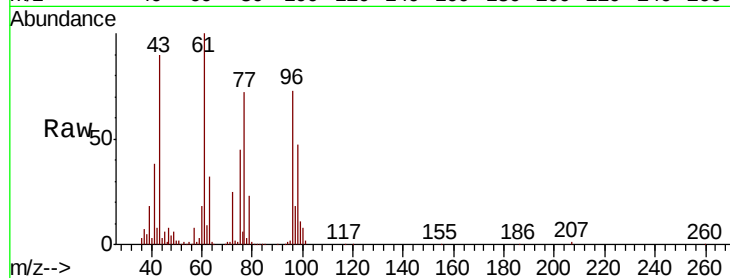


#27

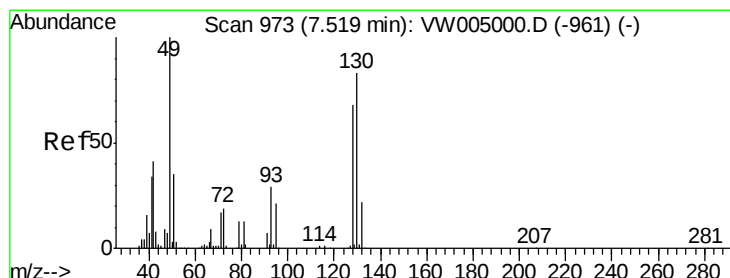
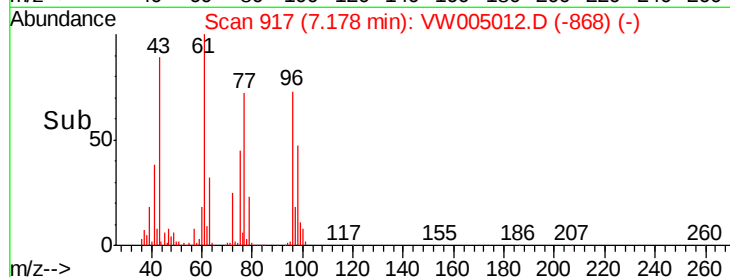
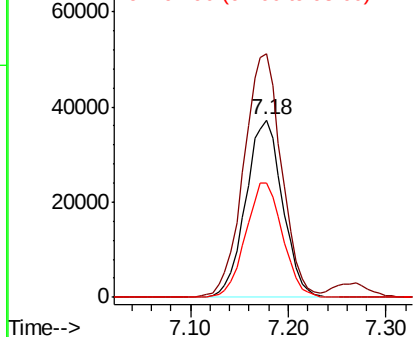
cis-1,2-Dichloroethene  
Concen: 20.97 ug/l  
RT: 7.18 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.7 | 0.0   | 281.6 |
| 98      | 64.5  | 0.0   | 129.0 |



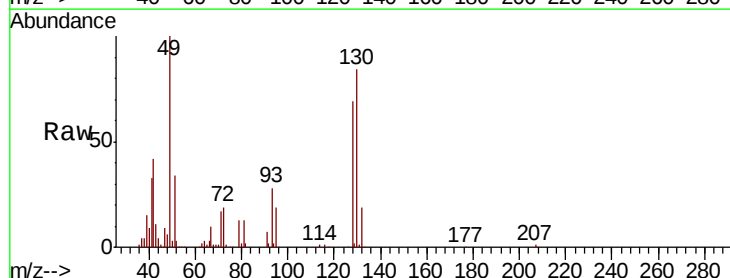
Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



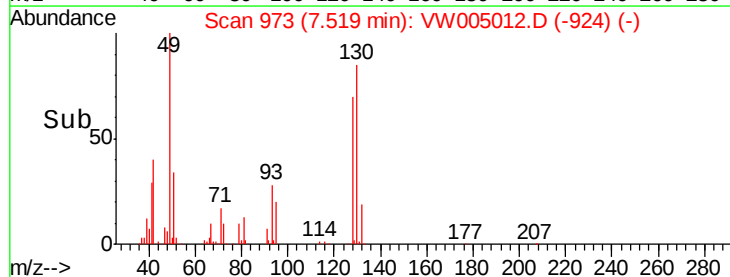
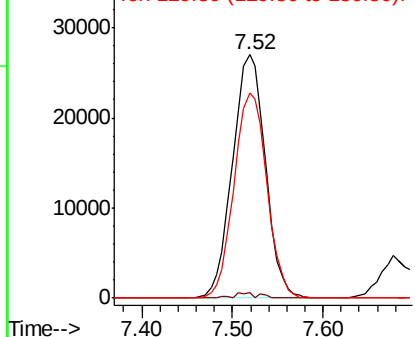
#28

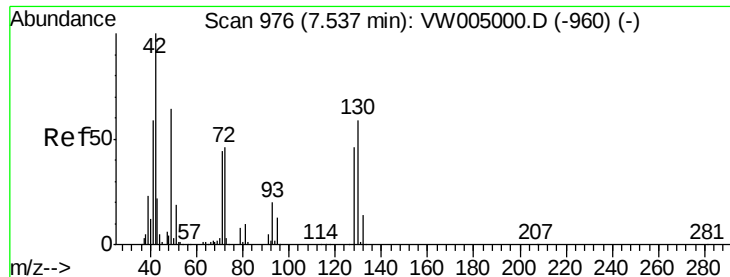
Bromochloromethane  
Concen: 20.70 ug/l  
RT: 7.52 min Scan# 973  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 1.2   | 0.0   | 4.2   |
| 130     | 84.2  | 68.2  | 102.2 |



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





#29

Tetrahydrofuran

Concen: 108.09 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

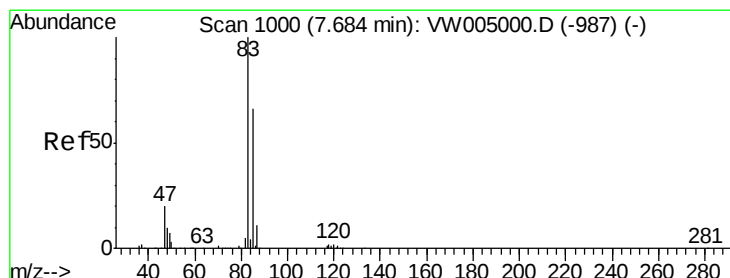
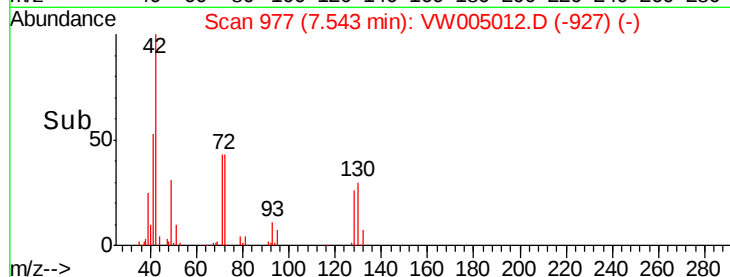
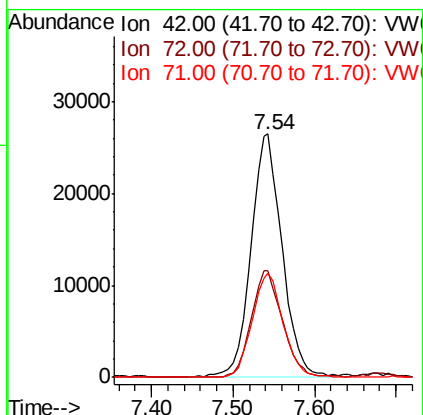
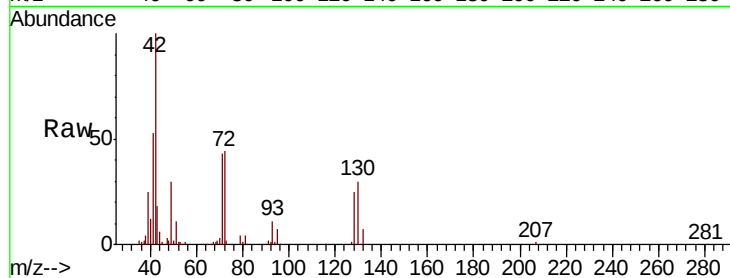
Tot Ion: 42 Resp: 70547

Ion Ratio Lower Upper

42 100

72 44.0 36.6 55.0

71 42.4 35.4 53.2



#30

Chloroform

Concen: 21.15 ug/l

RT: 7.68 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VW005012.D

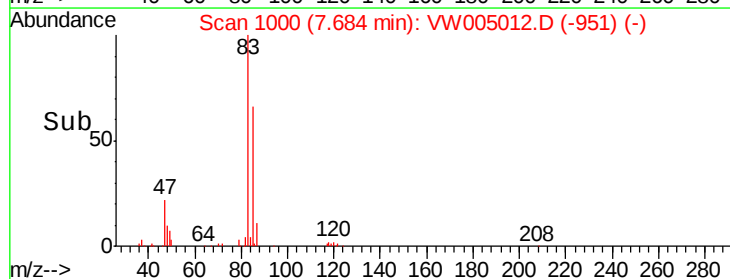
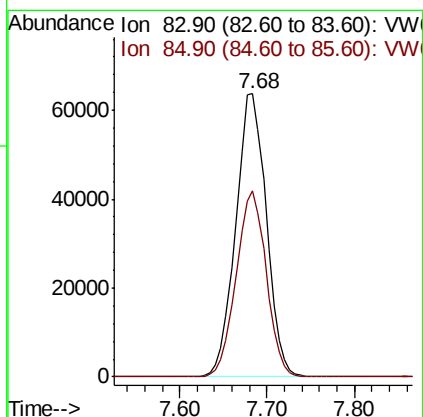
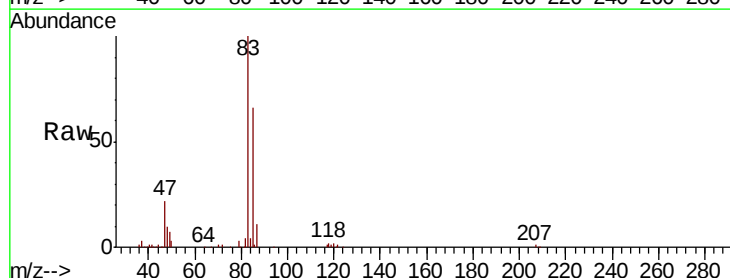
Acq: 30 Aug 2018 12:35

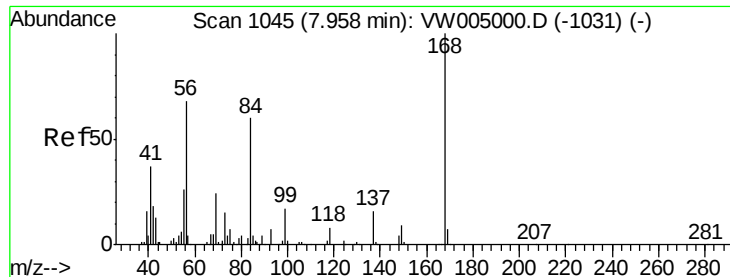
Tgt Ion: 83 Resp: 155187

Ion Ratio Lower Upper

83 100

85 65.7 52.6 78.8

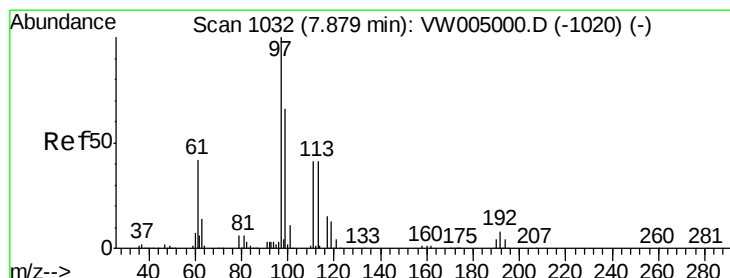
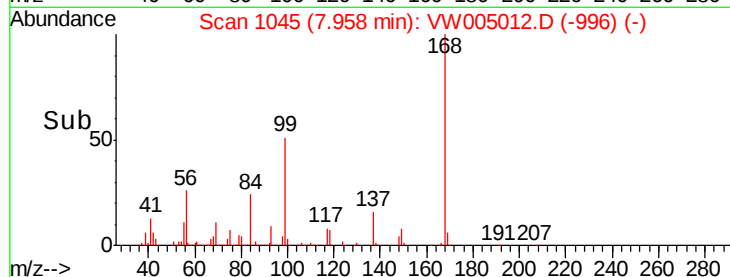
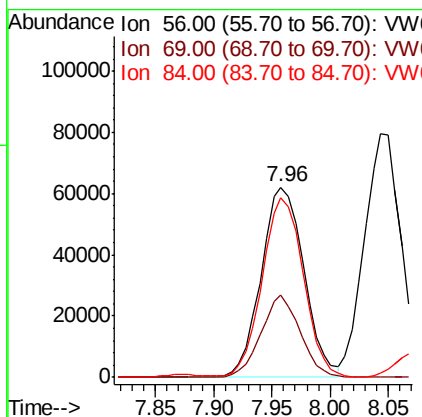
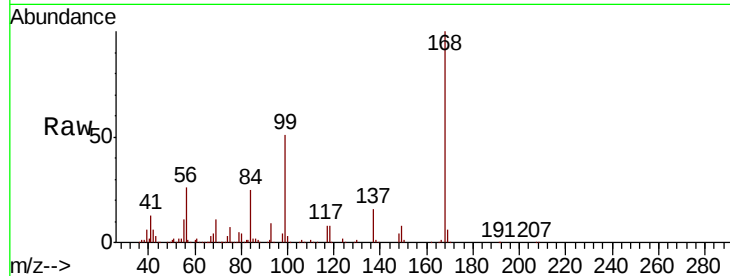




#31  
Cyclohexane  
Concen: 20.03 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

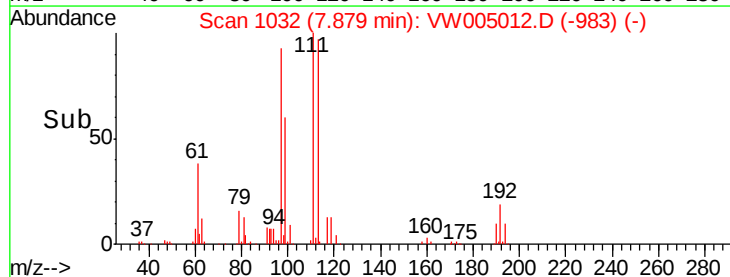
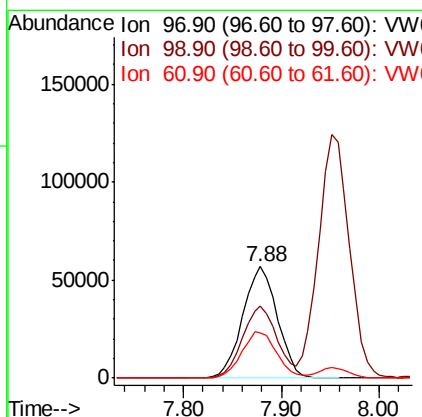
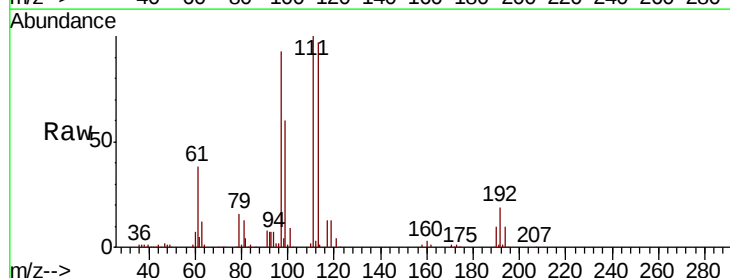
Instrument :  
MSVOA\_W  
ClientSampleId :

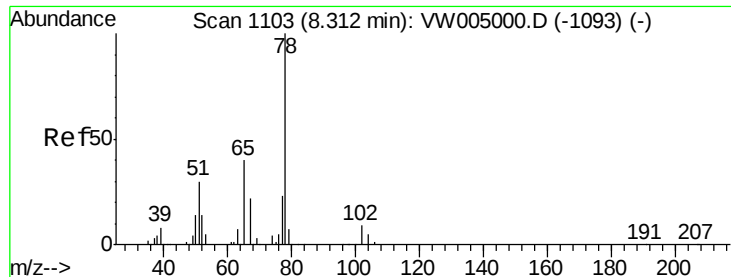
Tot Ion: 56 Resp: 158315  
Ion Ratio Lower Upper  
56 100  
69 43.6 27.9 41.9#  
84 93.3 70.5 105.7



#32  
1,1,1-Trichloroethane  
Concen: 20.66 ug/l  
RT: 7.88 min Scan# 1032  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 97 Resp: 139452  
Ion Ratio Lower Upper  
97 100  
99 65.3 52.3 78.5  
61 42.0 33.2 49.8

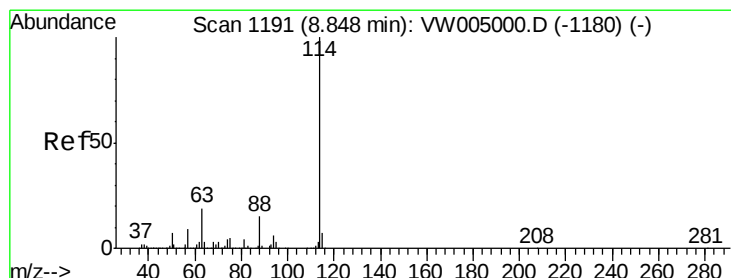
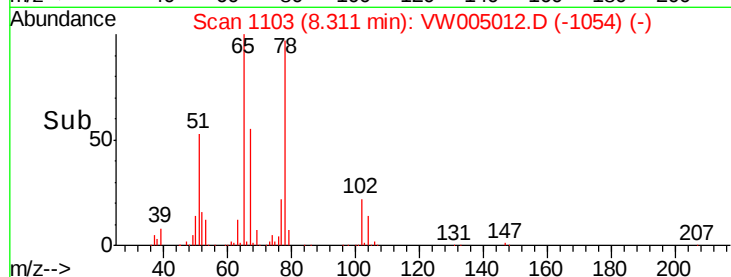
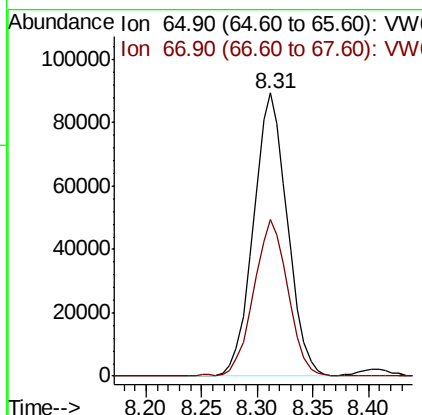
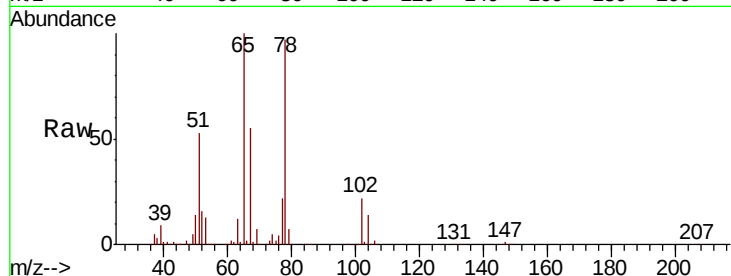




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.62 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

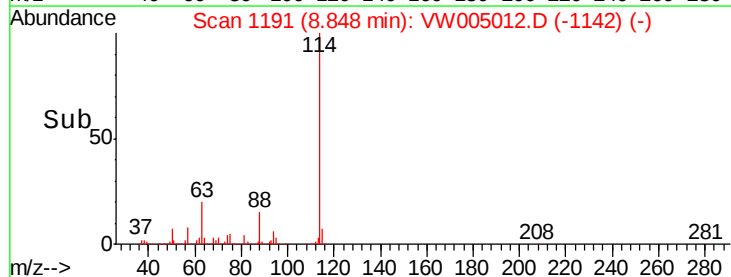
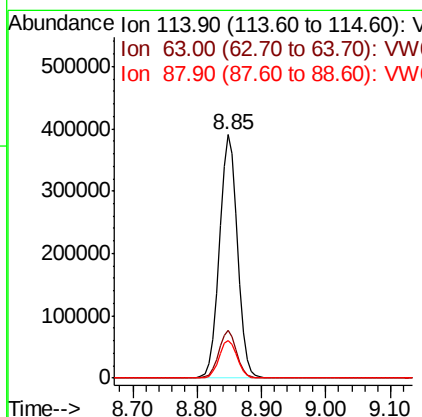
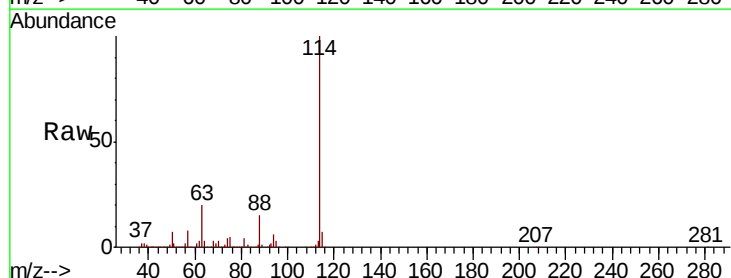
Instrument :  
 MSVOA\_W  
 ClientSampled :

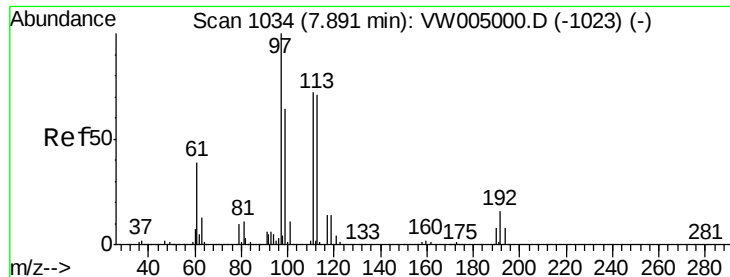
Tot Ion: 65 Resp: 189658  
 Ion Ratio Lower Upper  
 65 100  
 67 55.5 0.0 112.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 114 Resp: 772824  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 38.4  
 88 15.3 0.0 30.6

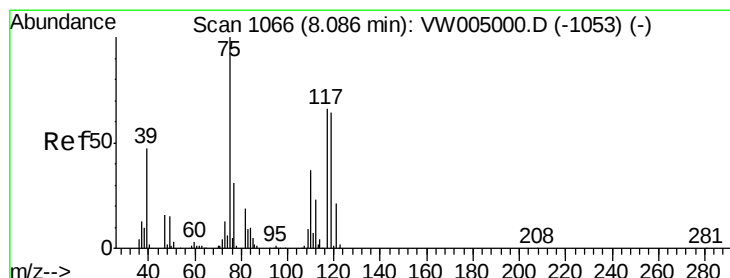
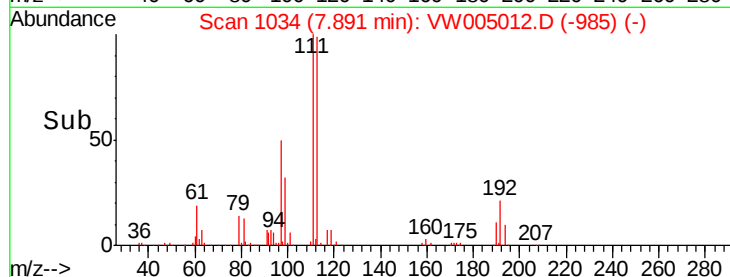
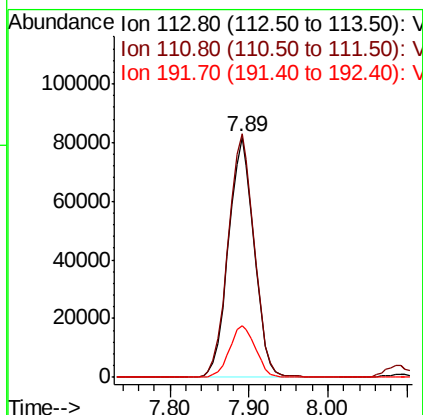
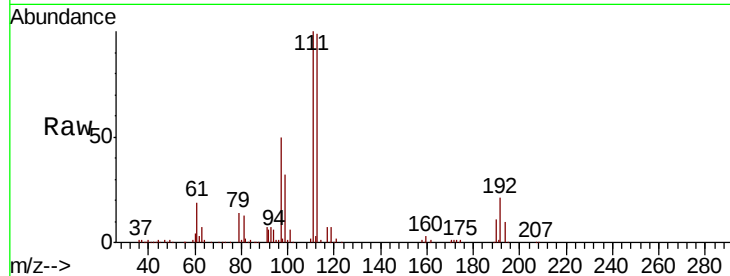




#35  
 Dibromofluoromethane  
 Concen: 48.33 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

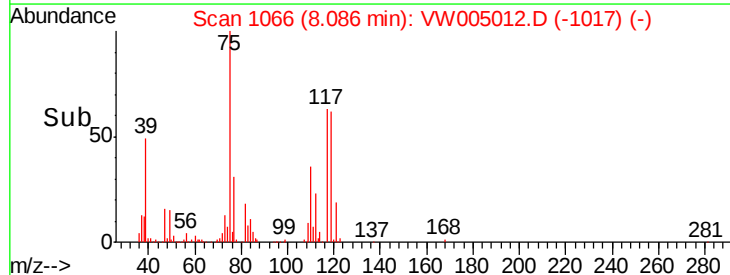
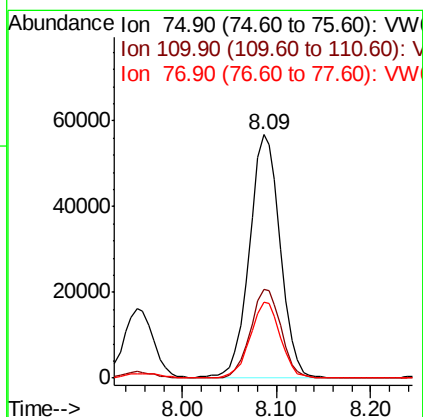
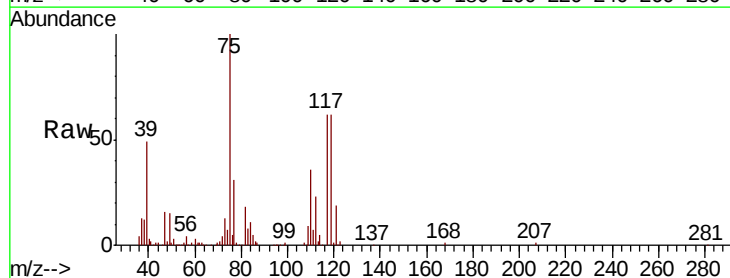
Instrument :  
 MSVOA\_W  
 ClientSampled :

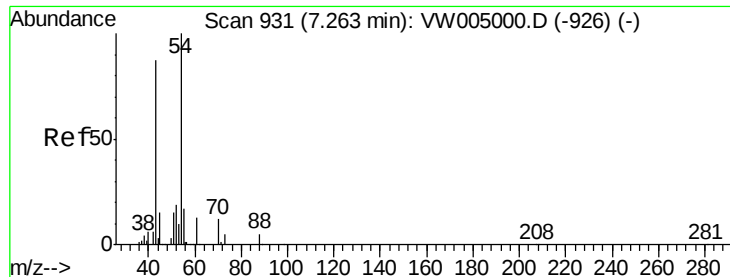
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 81.3  | 121.9 |
| 192     | 21.7  | 17.8  | 26.8  |



#36  
 1,1-Dichloropropene  
 Concen: 19.81 ug/l  
 RT: 8.09 min Scan# 1066  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.2  | 18.7  | 56.1  |
| 77      | 31.2  | 24.9  | 37.3  |

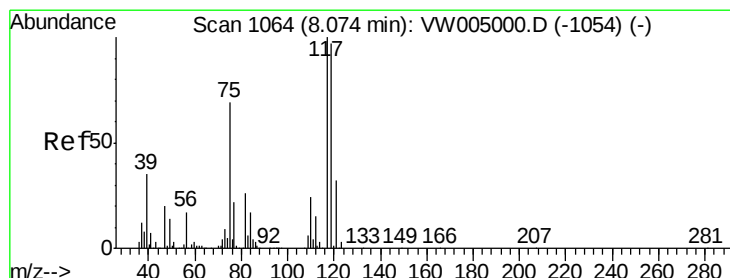
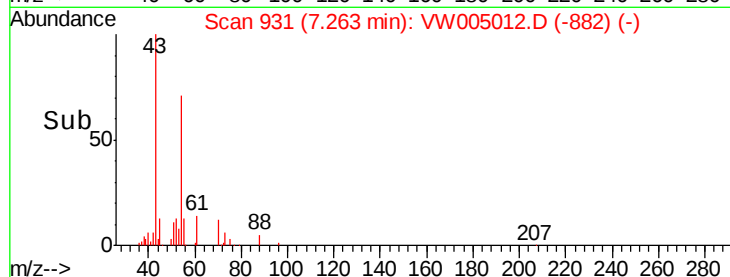
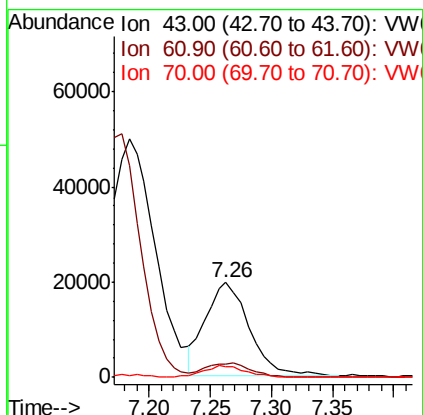
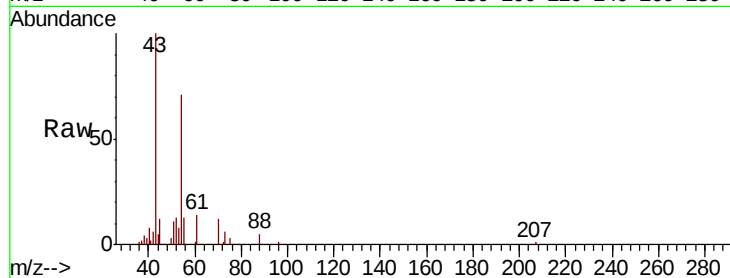




#37  
Ethyl Acetate  
Concen: 20.69 ug/l  
RT: 7.26 min Scan# 931  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

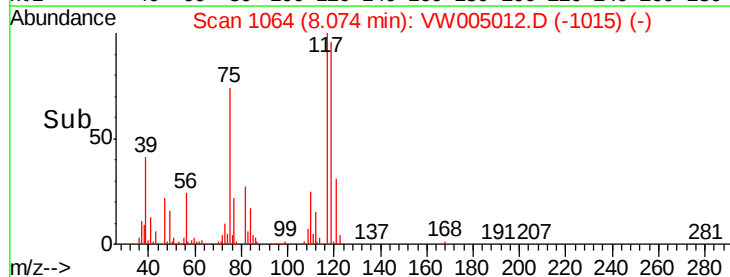
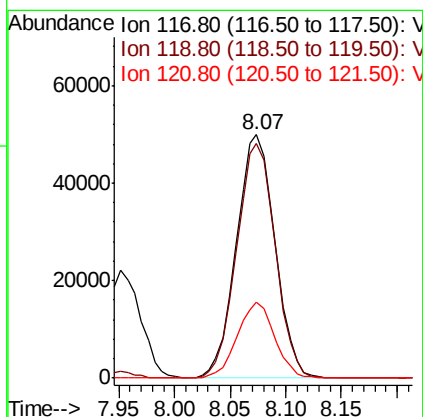
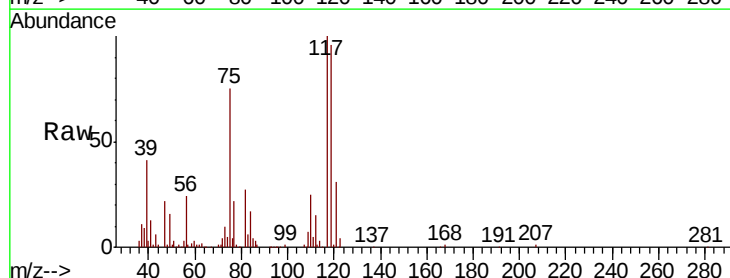
Instrument :  
MSVOA\_W  
ClientSampleId :

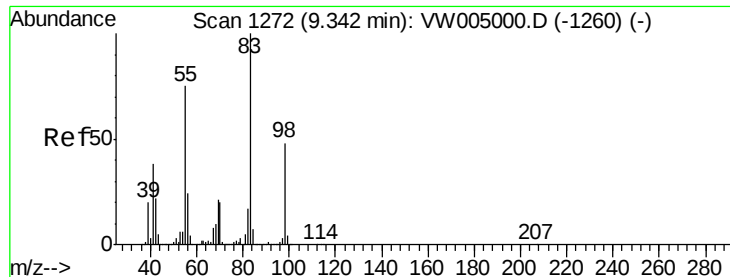
Tot Ion: 43 Resp: 48835  
Ion Ratio Lower Upper  
43 100  
61 16.0 12.3 18.5  
70 12.3 9.7 14.5



#38  
Carbon Tetrachloride  
Concen: 19.01 ug/l  
RT: 8.07 min Scan# 1064  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 117 Resp: 120466  
Ion Ratio Lower Upper  
117 100  
119 96.3 77.8 116.8  
121 31.0 25.2 37.8

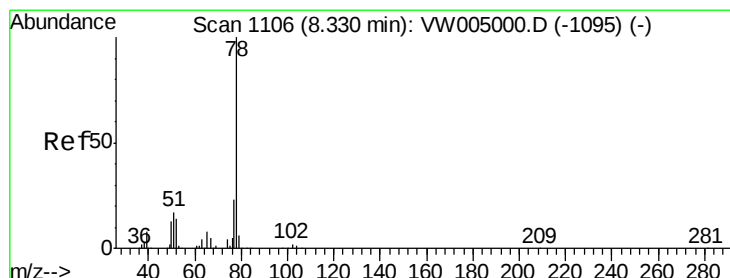
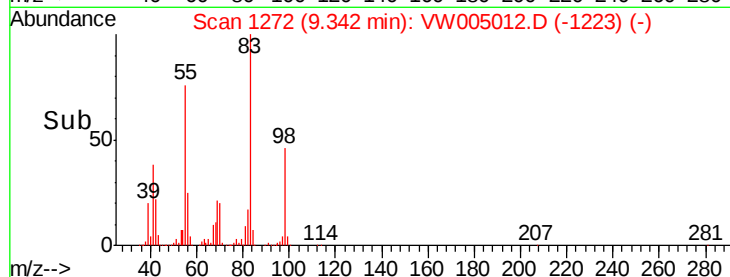
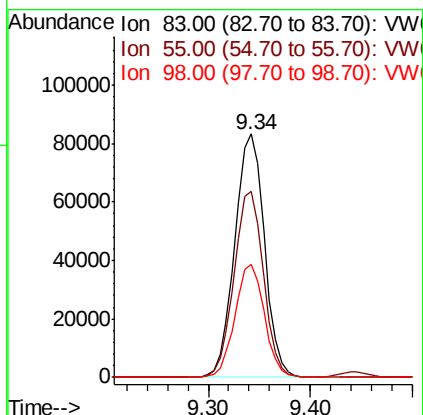
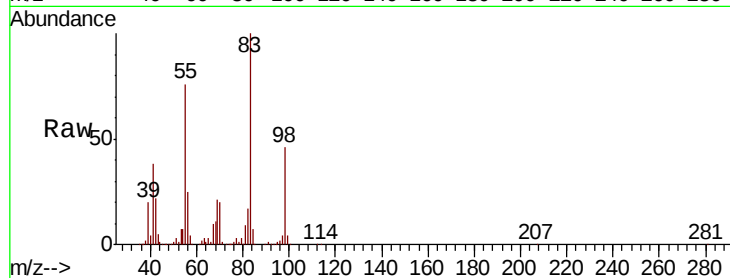




#39  
Methvlcvclohexane  
Concen: 18.58 ug/l  
RT: 9.34 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

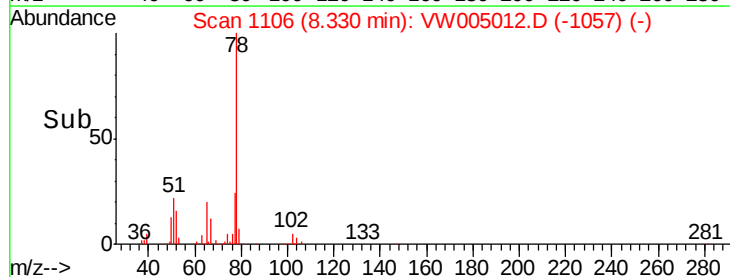
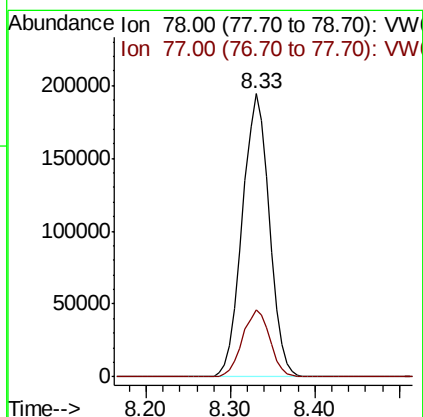
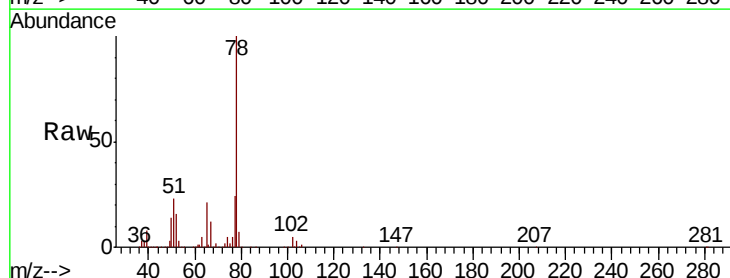
Instrument :  
MSVOA\_W  
ClientSampled :

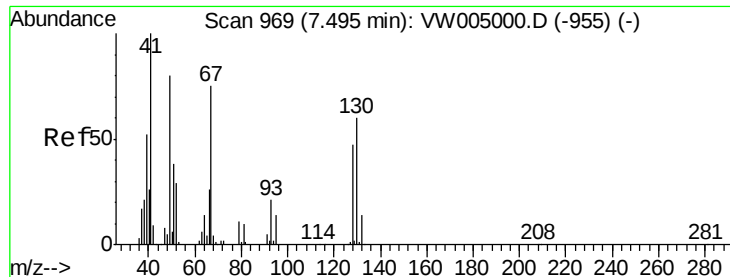
Tot Ion: 83 Resp: 167761  
Ion Ratio Lower Upper  
83 100  
55 76.3 60.2 90.2  
98 46.4 38.6 57.8



#40  
Benzene  
Concen: 20.11 ug/l  
RT: 8.33 min Scan# 1106  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 78 Resp: 421589  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.6 28.0

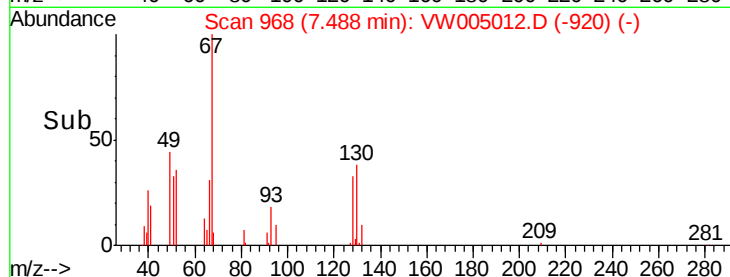
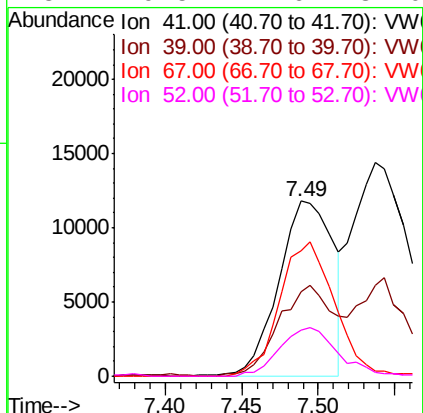
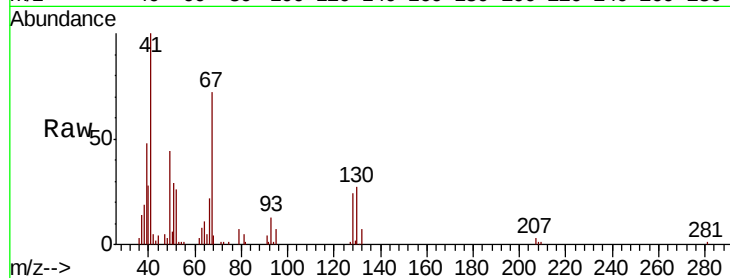




#41  
Methacrylonitrile  
Concen: 21.33 ug/l  
RT: 7.49 min Scan# 968  
Delta R.T. -0.01 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

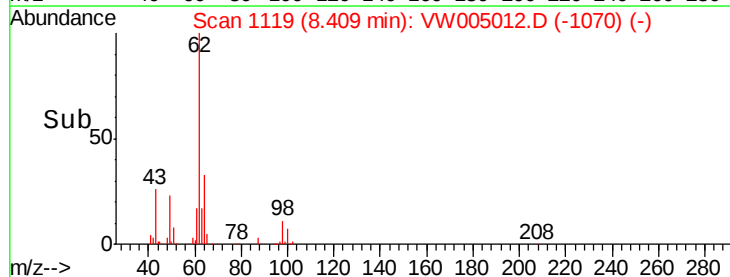
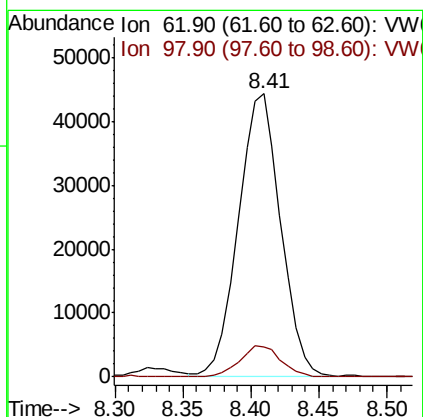
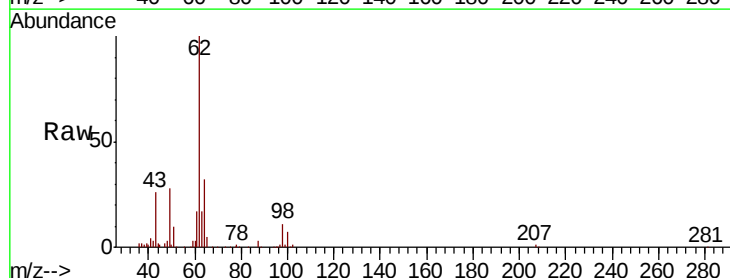
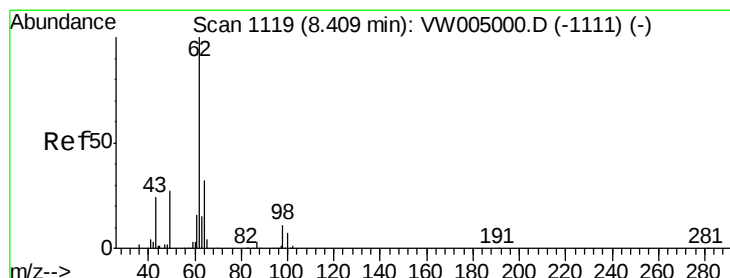
Instrument :  
MSVOA\_W  
ClientSampled :

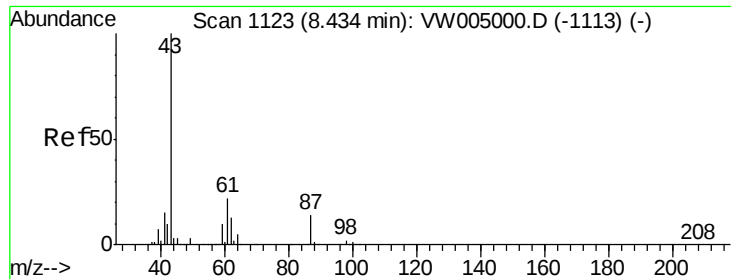
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 29335 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 55.4  | 42.0  | 63.0  |
| 67       | 78.0  | 63.4  | 95.2  |
| 52       | 29.5  | 24.6  | 37.0  |



#42  
1,2-Dichloroethane  
Concen: 20.52 ug/l  
RT: 8.41 min Scan# 1119  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 95709 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.7  | 0.0   | 20.8  |



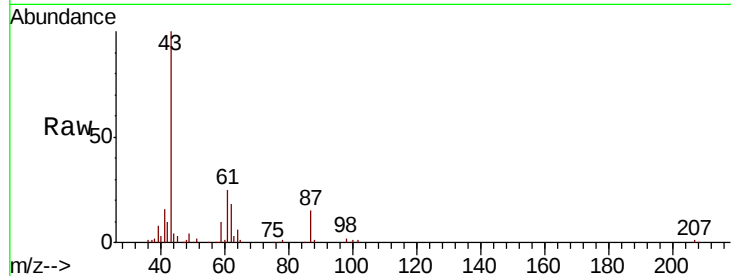


#43

Isopropyl Acetate  
 Concen: 20.13 ug/l  
 RT: 8.43 min Scan# 1123  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion   | 43    | Resp  | 94530 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 33.3  | 26.2  | 39.4  |
| 87        | 14.3  | 11.8  | 17.6  |

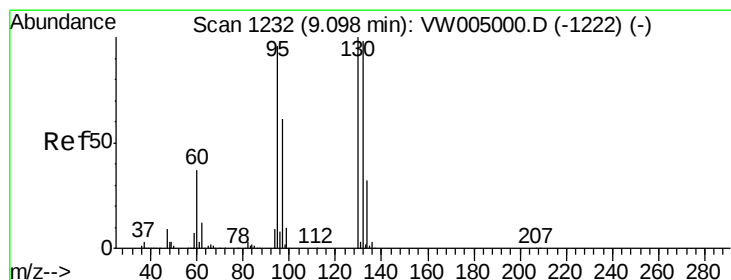
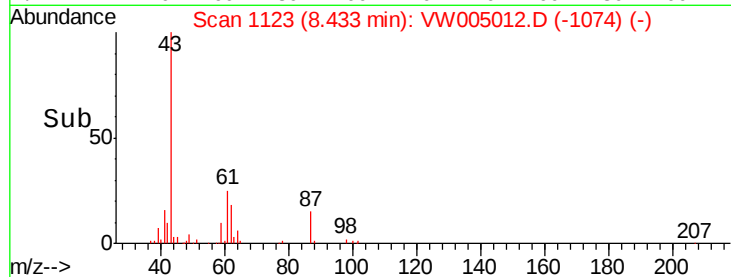
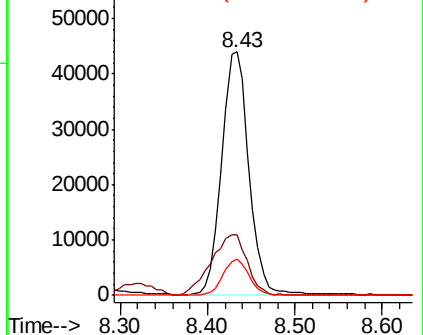


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

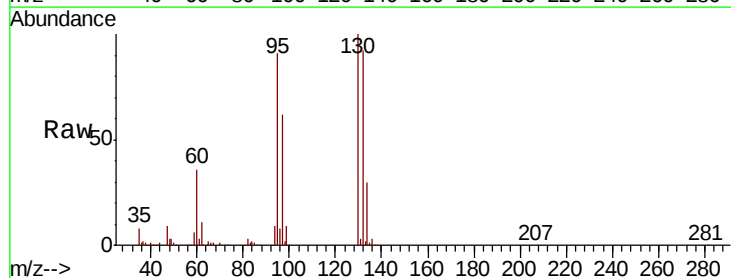
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene  
 Concen: 19.72 ug/l  
 RT: 9.10 min Scan# 1232  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

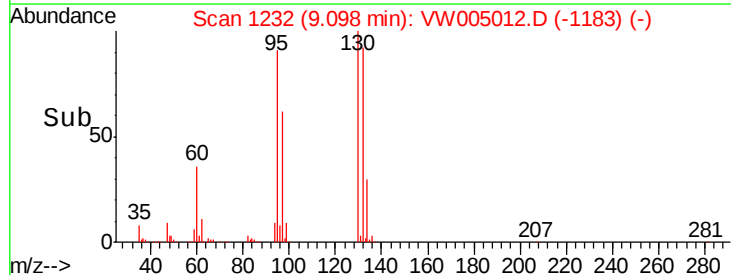
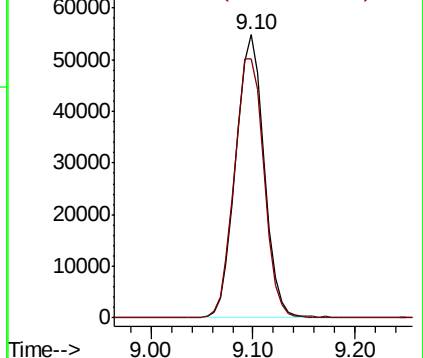
| Tgt Ion   | 130   | Resp  | 105559 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 91.4  | 0.0   | 192.2  |

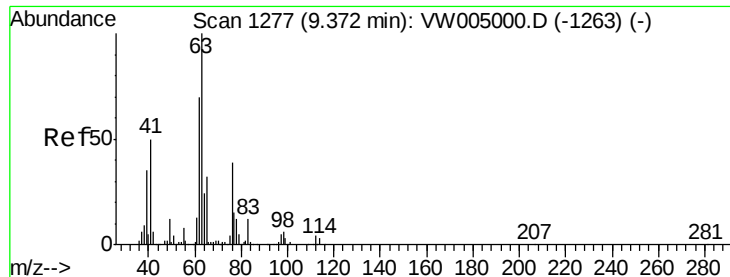


Abundance

Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

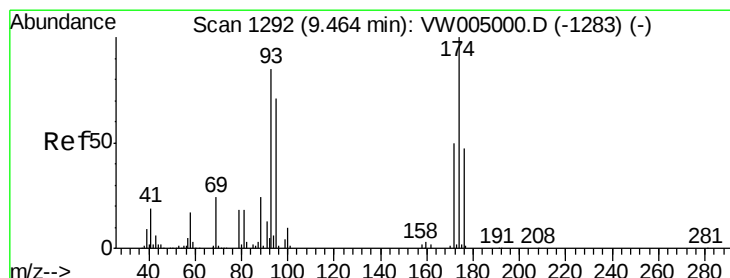
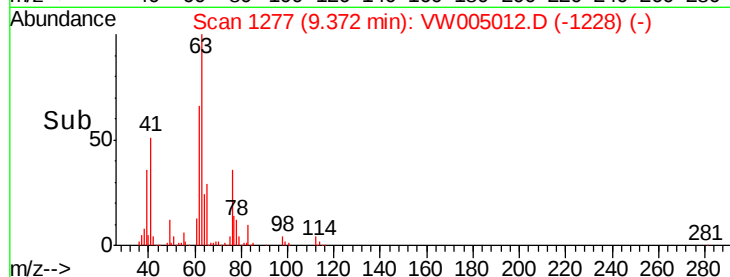
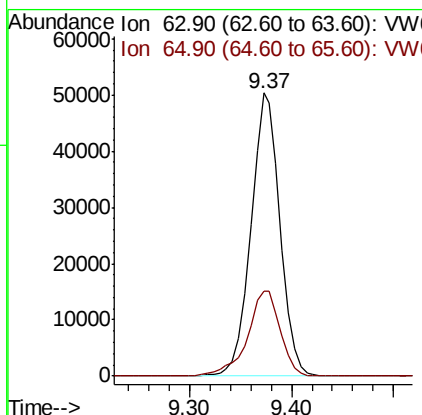
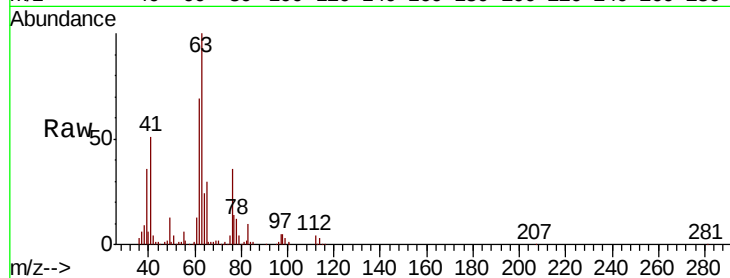




#45  
 1,2-Dichloropropane  
 Concen: 20.75 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

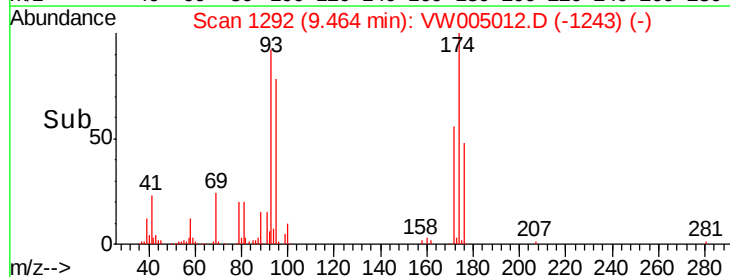
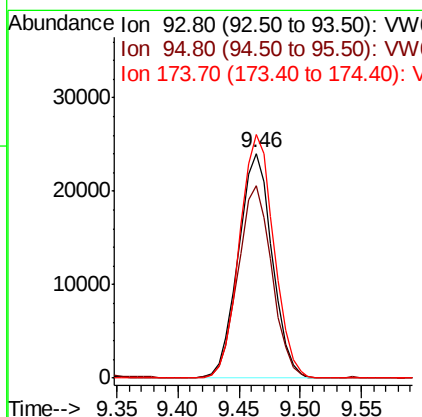
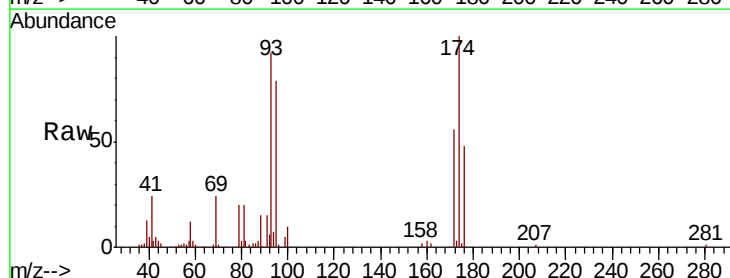
Instrument :  
 MSVOA\_W  
 ClientSampled :

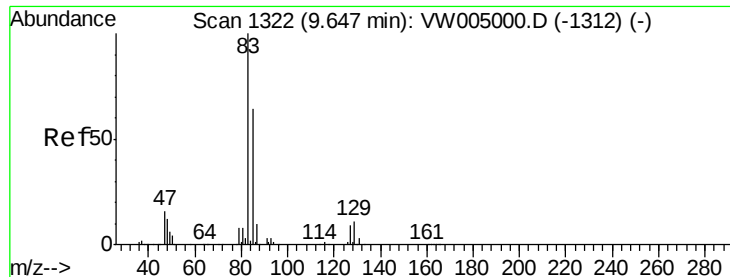
Tot Ion: 63 Resp: 99531  
 Ion Ratio Lower Upper  
 63 100  
 65 30.2 25.3 37.9



#46  
 Dibromomethane  
 Concen: 20.37 ug/l  
 RT: 9.46 min Scan# 1292  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 93 Resp: 46231  
 Ion Ratio Lower Upper  
 93 100  
 95 85.6 68.0 102.0  
 174 109.9 91.4 137.0





#47

Bromodichloromethane

Concen: 20.82 ug/l

RT: 9.65 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

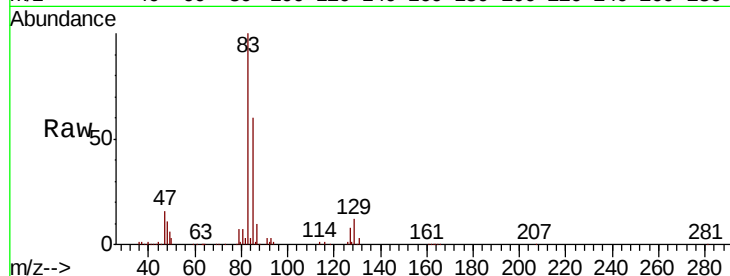
Tot Ion: 83 Resp: 116745

Ion Ratio Lower Upper

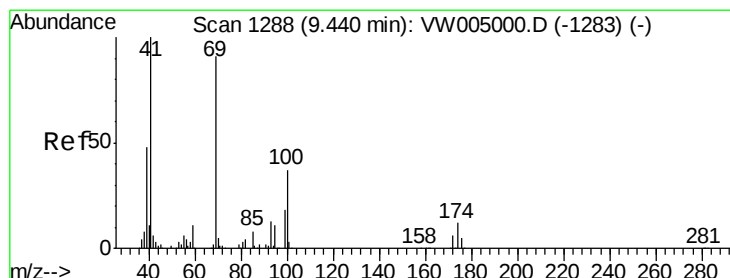
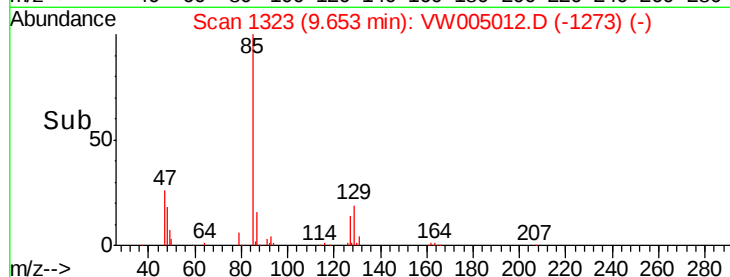
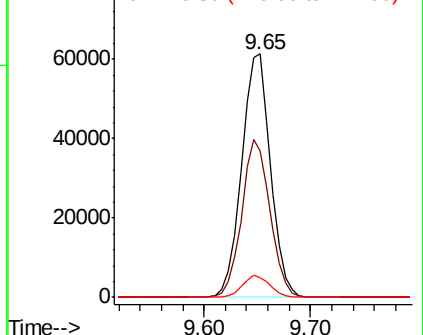
83 100

85 60.0 51.3 76.9

127 8.2 7.2 10.8



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



#48

Methyl methacrylate

Concen: 19.70 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

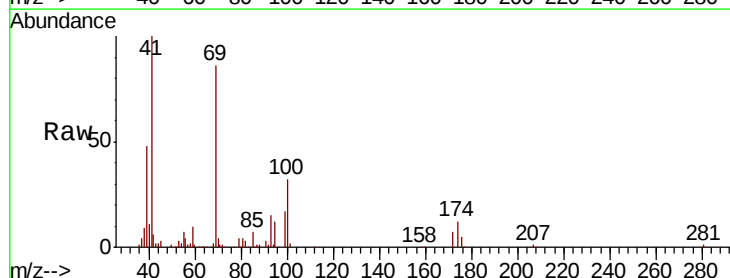
Tgt Ion: 41 Resp: 49833

Ion Ratio Lower Upper

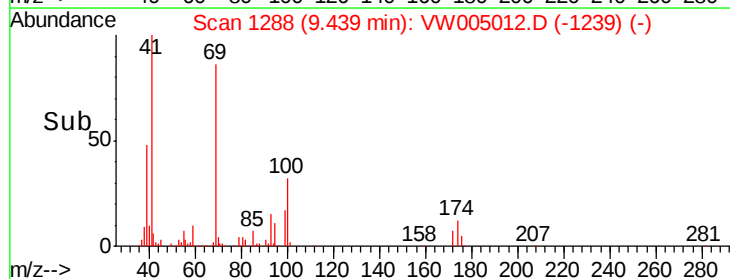
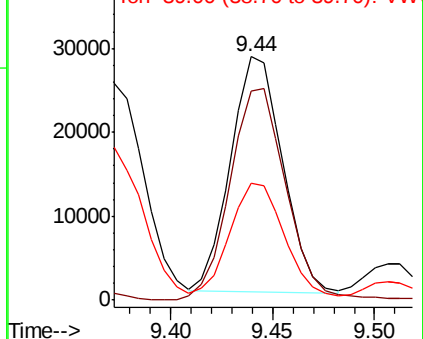
41 100

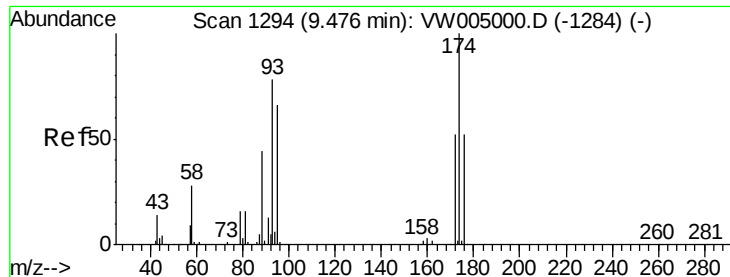
69 98.0 72.5 108.7

39 48.7 37.0 55.6



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: 393.89 ug/l

RT: 9.49 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampled :

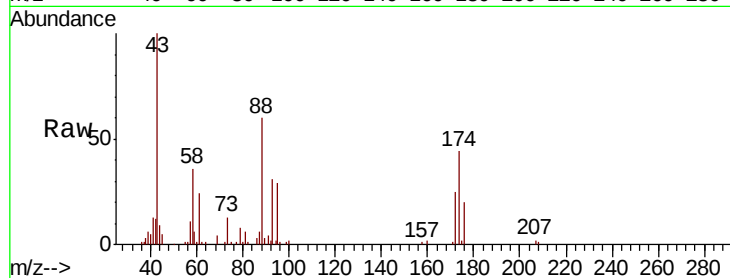
Tot Ion: 88 Resp: 18553

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

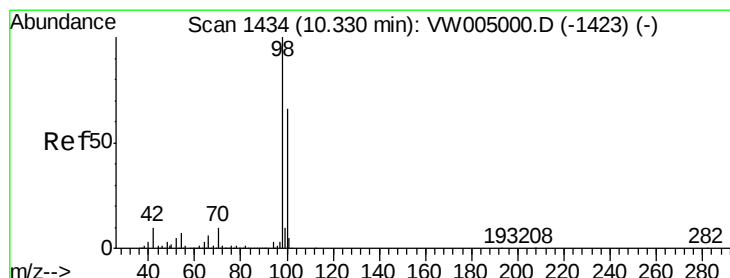
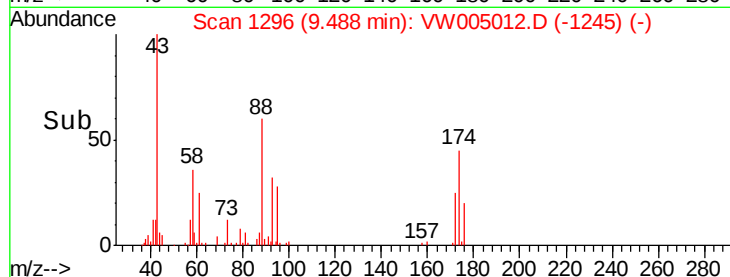
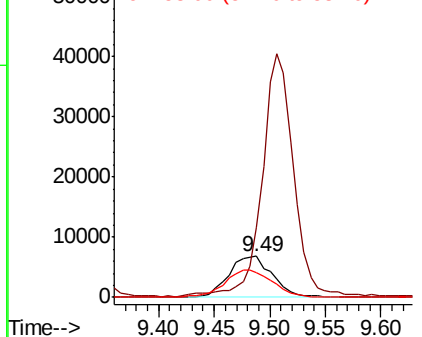
58 73.5 57.0 85.4



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 51.47 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW005012.D

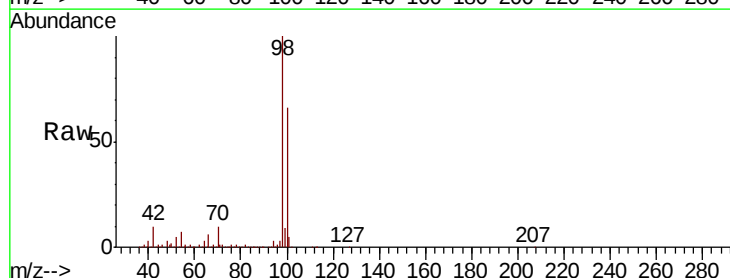
Acq: 30 Aug 2018 12:35

Tgt Ion: 98 Resp: 1082263

Ion Ratio Lower Upper

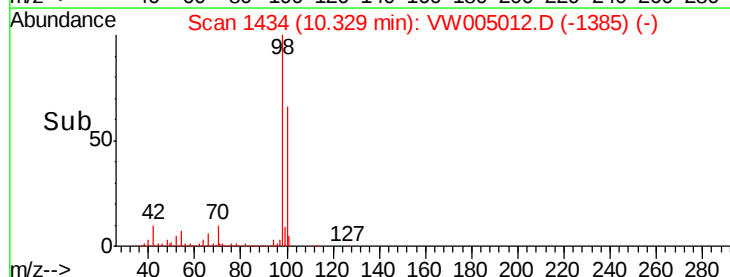
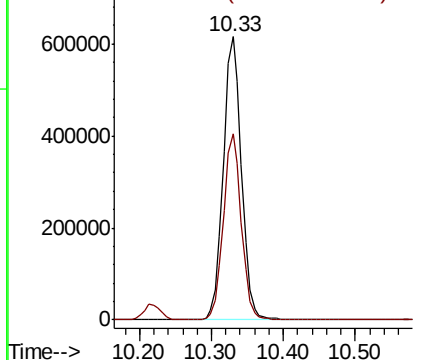
98 100

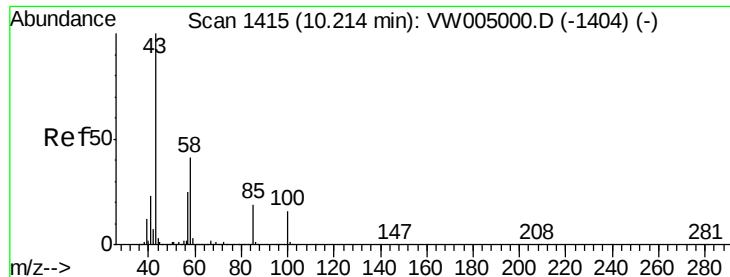
100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

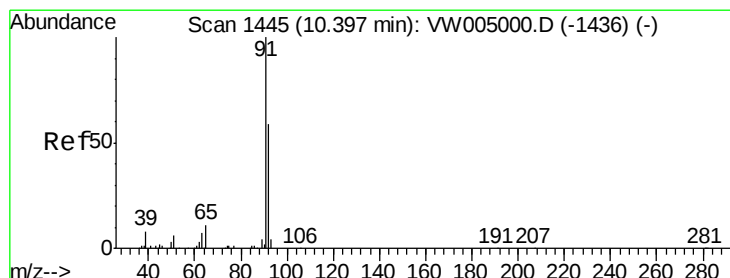
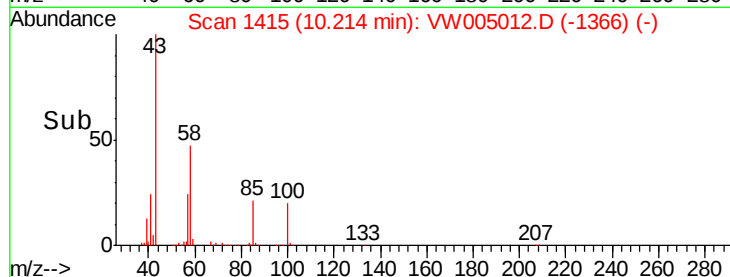
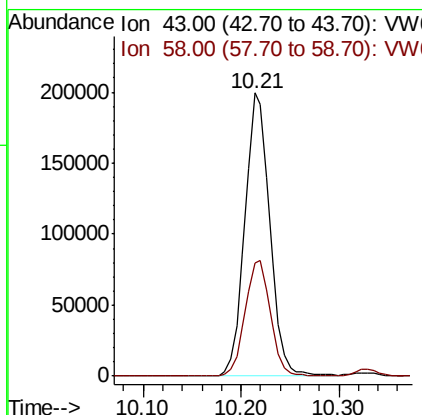
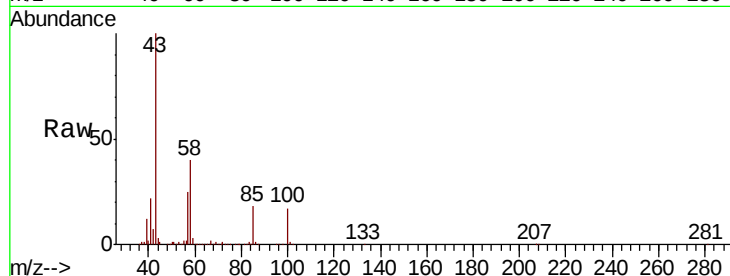




#51  
 4-Methyl-2-Pentanone  
 Concen: 100.11 ug/l  
 RT: 10.21 min Scan# 1415  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

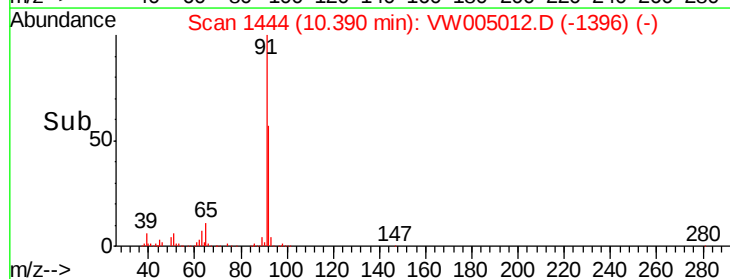
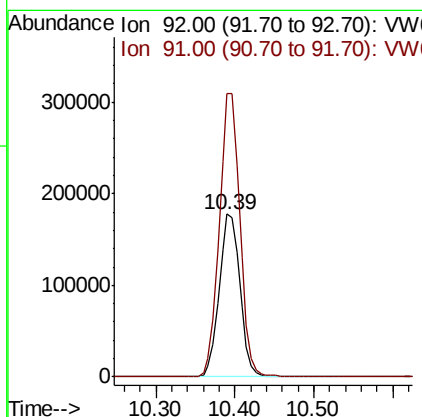
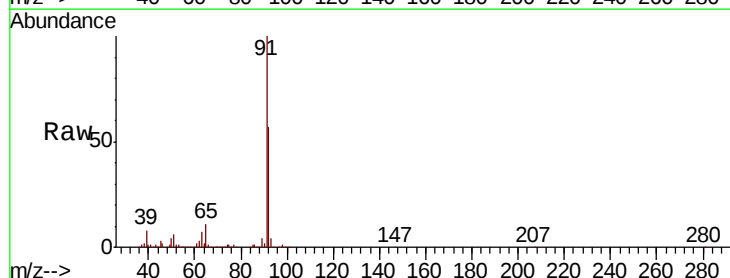
Instrument :  
 MSVOA\_W  
 ClientSampled :

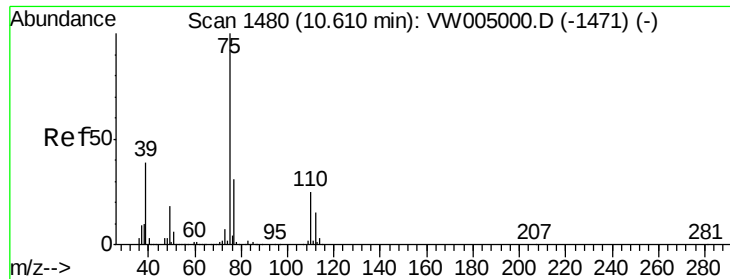
Tot Ion: 43 Resp: 352127  
 Ion Ratio Lower Upper  
 43 100  
 58 41.7 33.5 50.3



#52  
 Toluene  
 Concen: 20.91 ug/l  
 RT: 10.39 min Scan# 1444  
 Delta R.T. -0.01 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 92 Resp: 325091  
 Ion Ratio Lower Upper  
 92 100  
 91 173.1 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 18.82 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

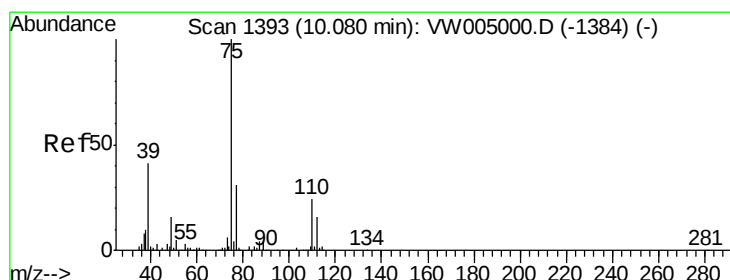
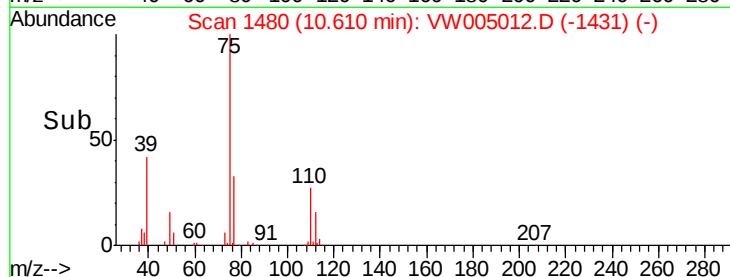
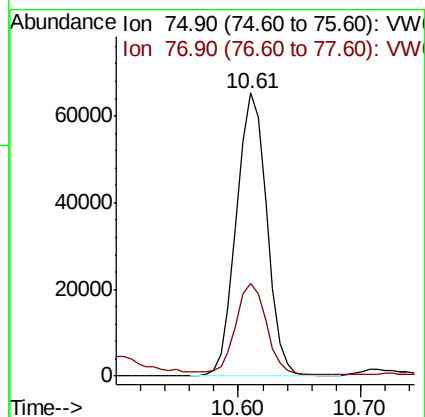
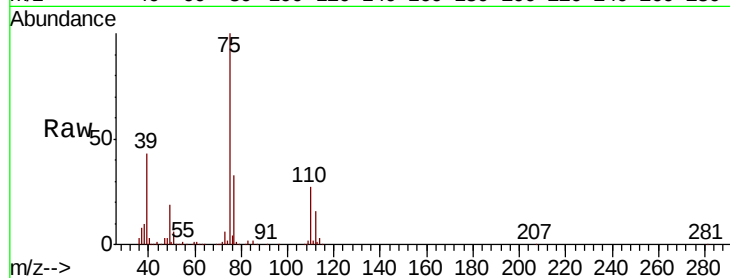
ClientSampleId :

Tot Ion: 75 Resp: 112713

Ion Ratio Lower Upper

75 100

77 32.2 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 19.50 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

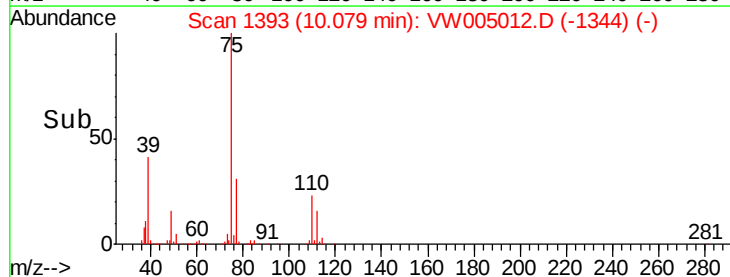
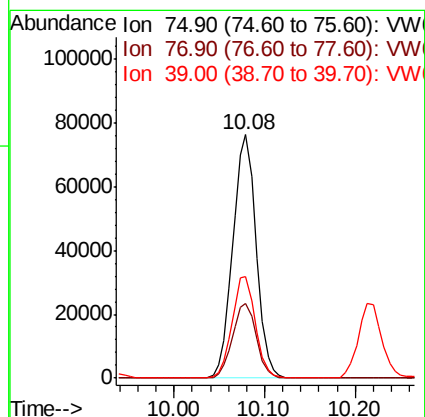
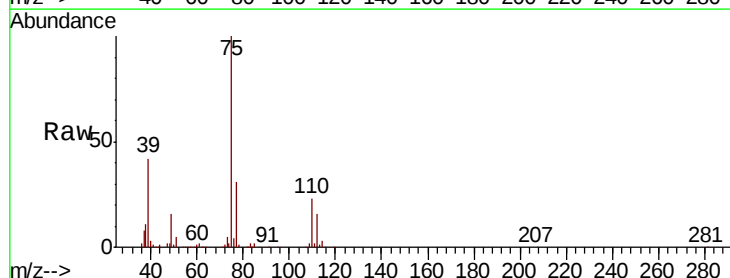
Tgt Ion: 75 Resp: 136177

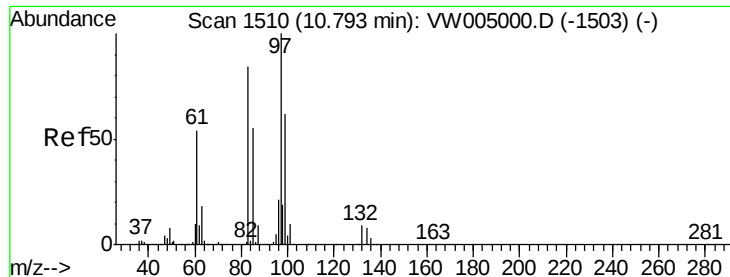
Ion Ratio Lower Upper

75 100

77 30.7 25.2 37.8

39 41.4 32.9 49.3

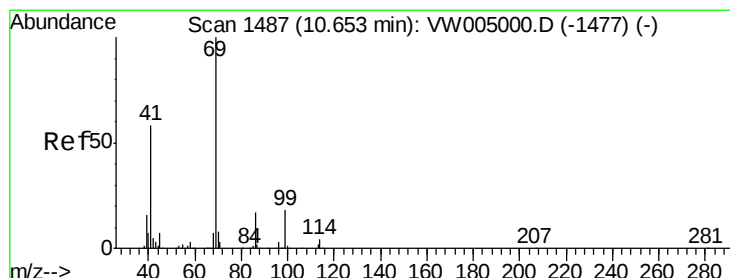
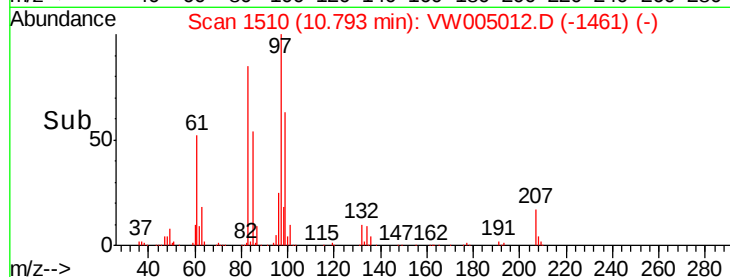
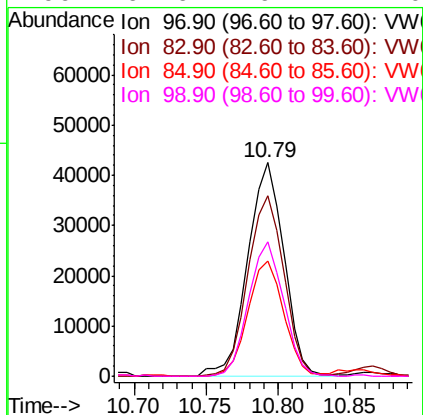
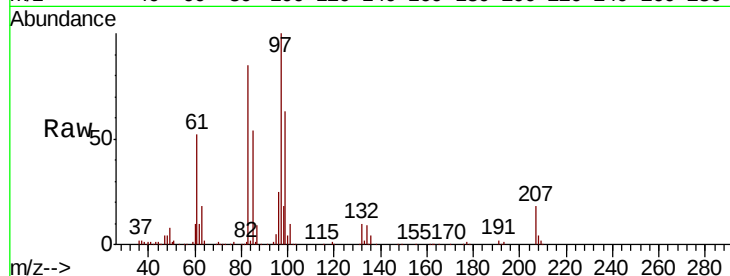




#55  
 1,1,2-Trichloroethane  
 Concen: 19.91 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

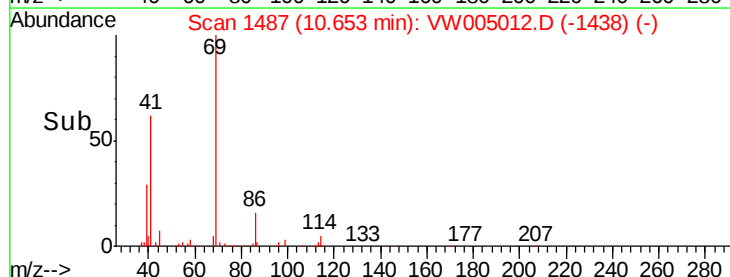
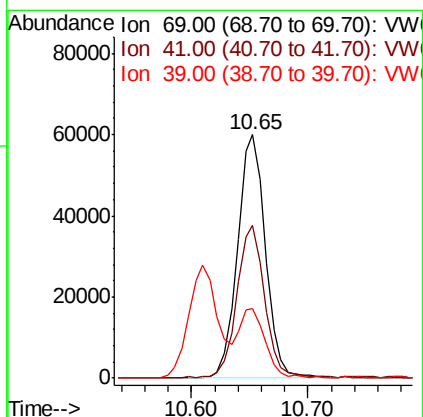
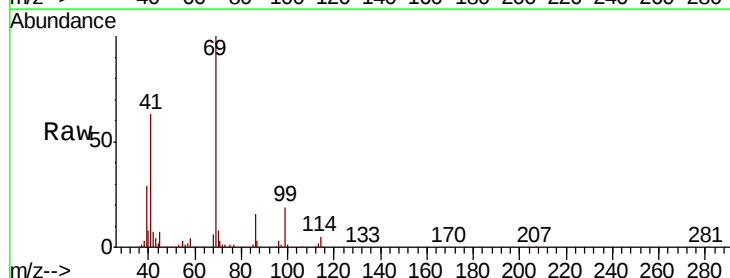
Instrument :  
 MSVOA\_W  
 ClientSampleId :

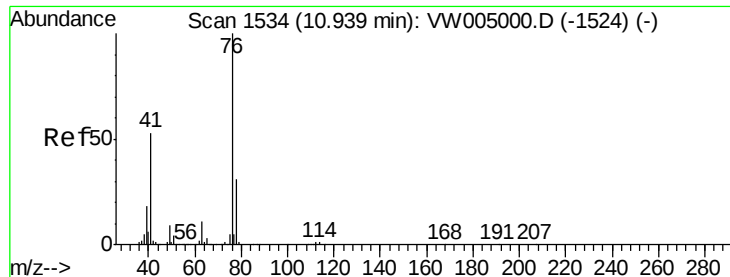
| Tot Ion: | 97    | Resp: | 73980 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.5  | 67.3  | 100.9 |
| 85       | 53.8  | 44.3  | 66.5  |
| 99       | 62.6  | 49.4  | 74.0  |



#56  
 Ethyl methacrylate  
 Concen: 20.55 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

| Tgt Ion: | 69    | Resp: | 100128 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 61.2  | 47.7  | 71.5   |
| 39       | 26.5  | 21.0  | 31.6   |





#57

1,3-Dichloropropane

Concen: 20.28 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

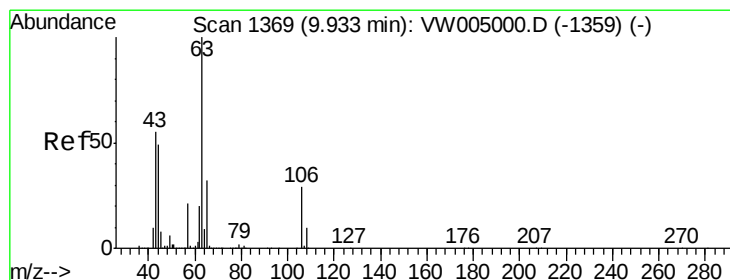
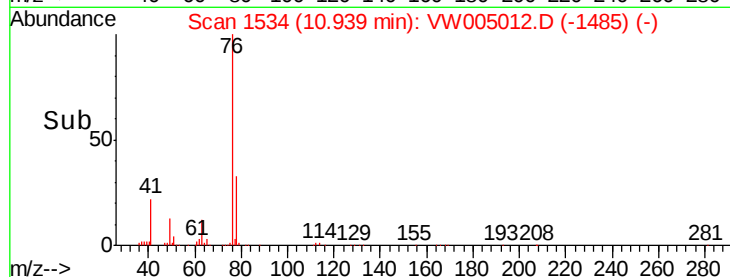
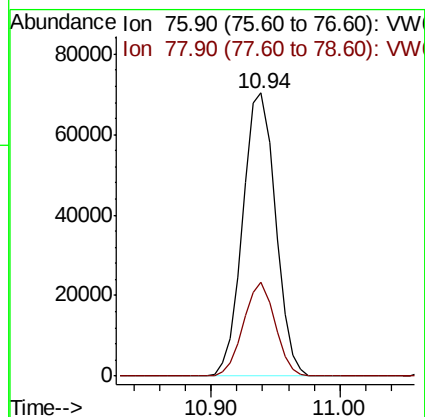
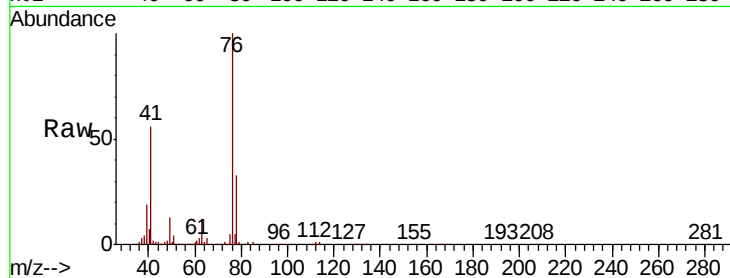
ClientSampleId :

Tot Ion: 76 Resp: 123993

Ion Ratio Lower Upper

76 100

78 32.0 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 96.64 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VW005012.D

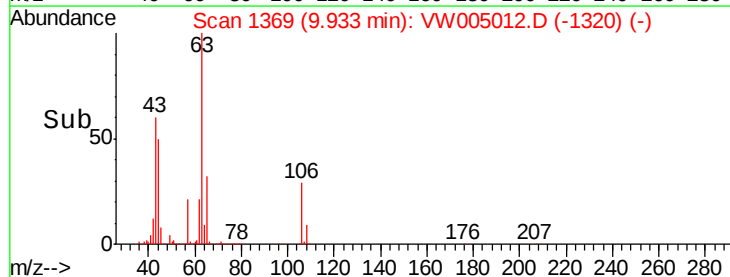
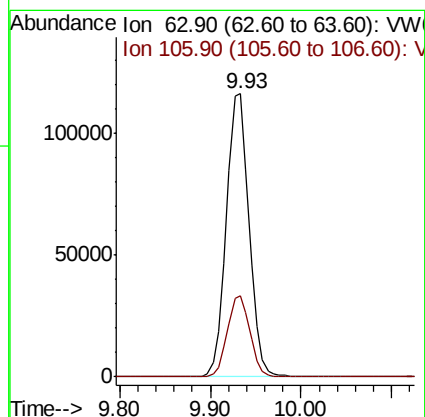
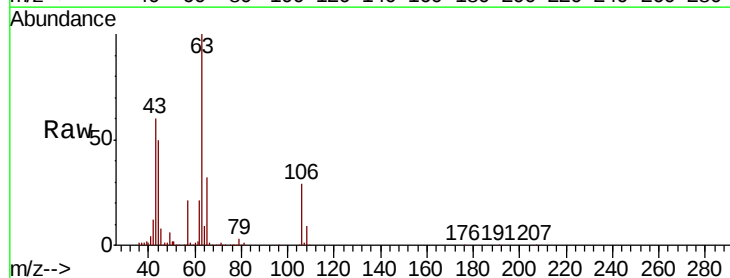
Acq: 30 Aug 2018 12:35

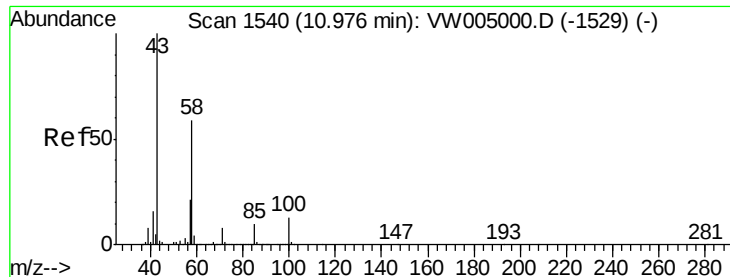
Tgt Ion: 63 Resp: 202889

Ion Ratio Lower Upper

63 100

106 28.5 23.2 34.8

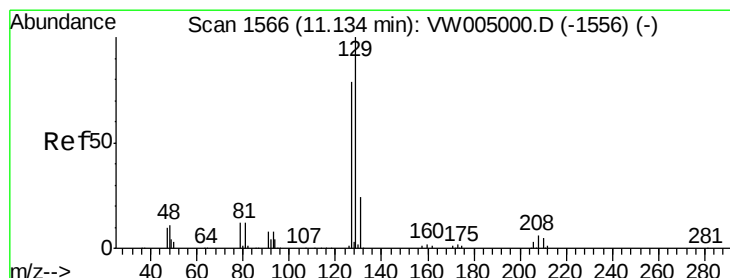
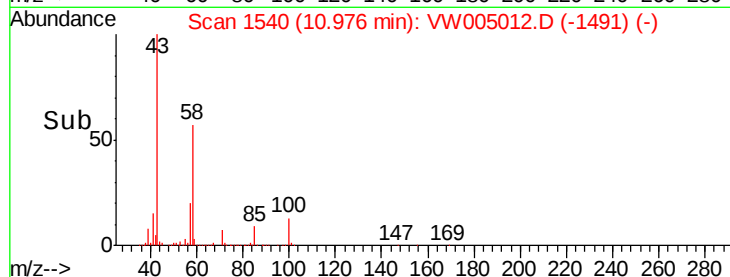
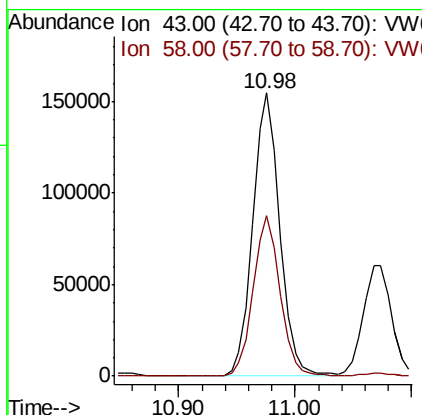
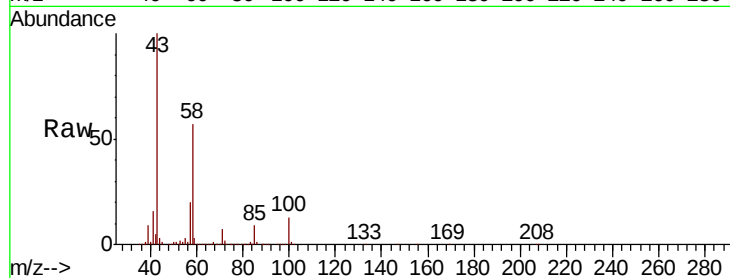




#59  
2-Hexanone  
Concen: 97.85 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

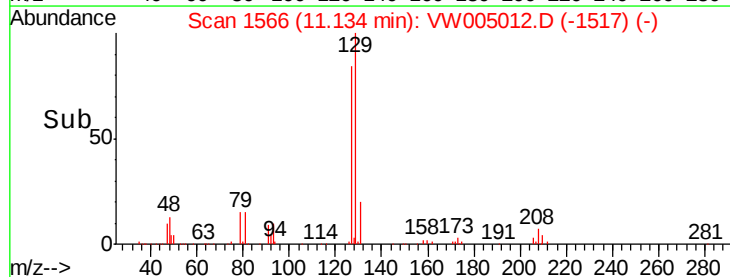
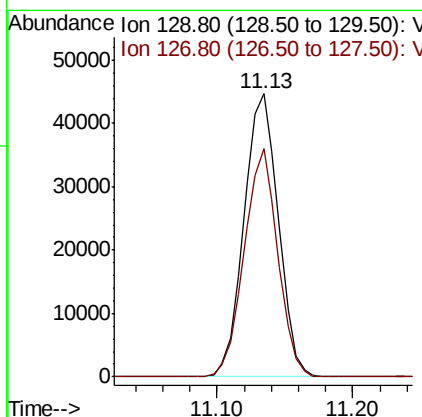
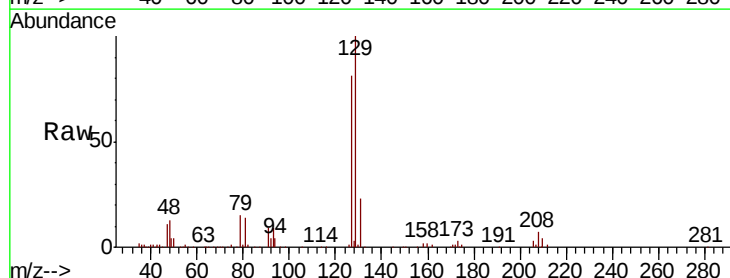
Instrument :  
MSVOA\_W  
ClientSampleId :

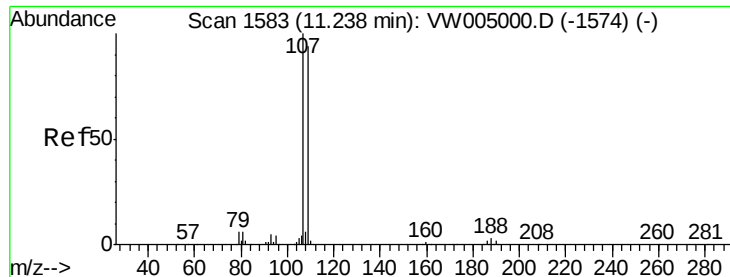
Tot Ion: 43 Resp: 249212  
Ion Ratio Lower Upper  
43 100  
58 56.5 29.2 87.6



#60  
Dibromochloromethane  
Concen: 19.39 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion: 129 Resp: 79041  
Ion Ratio Lower Upper  
129 100  
127 78.6 38.3 114.8

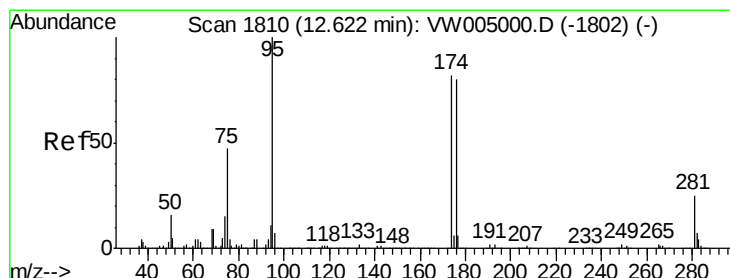
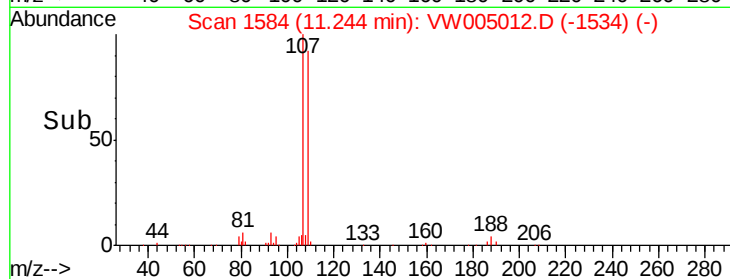
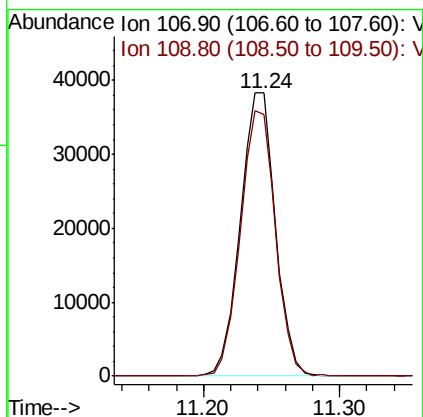
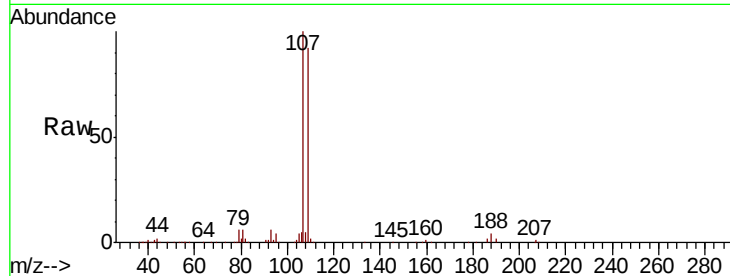




#61  
 1,2-Dibromoethane  
 Concen: 19.72 ug/l  
 RT: 11.24 min Scan# 1584  
 Delta R.T. 0.01 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

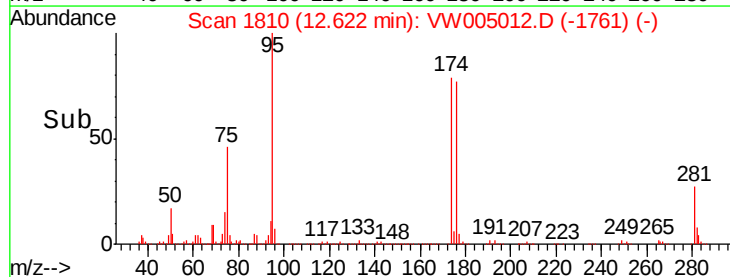
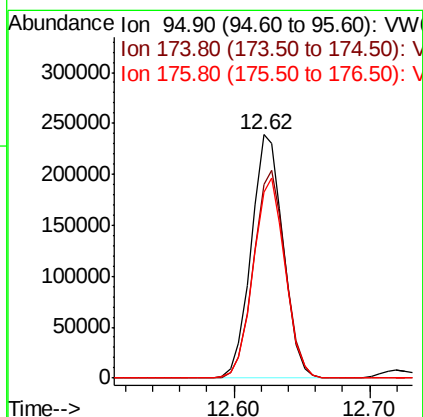
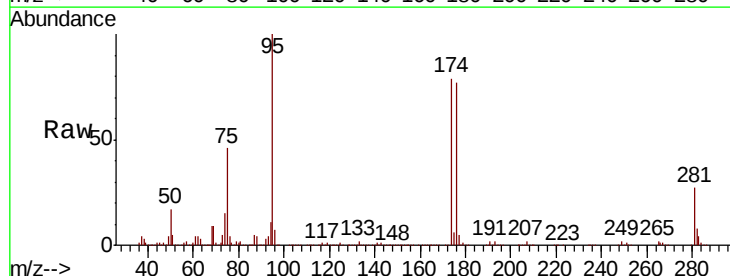
Instrument :  
 MSVOA\_W  
 ClientSampleId :

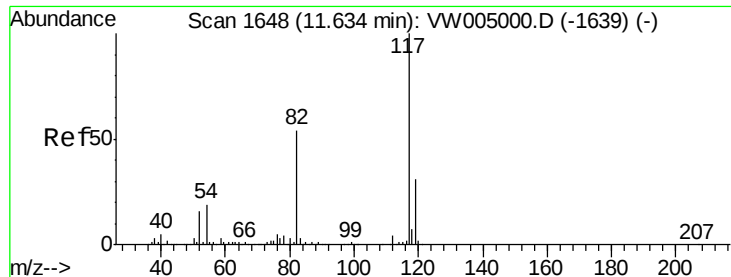
Tot Ion: 107 Resp: 68696  
 Ion Ratio Lower Upper  
 107 100  
 109 93.9 75.2 112.8



#62  
 4-Bromofluorobenzene  
 Concen: 51.37 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion: 95 Resp: 393759  
 Ion Ratio Lower Upper  
 95 100  
 174 84.9 0.0 173.4  
 176 82.0 0.0 167.8

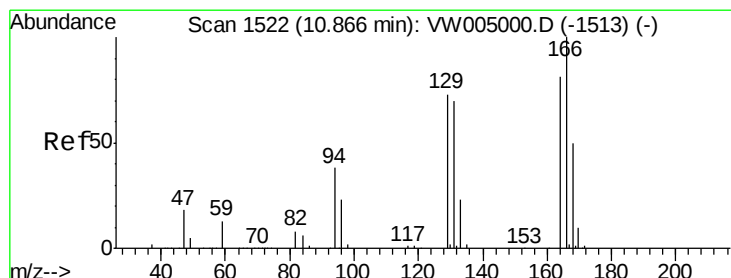
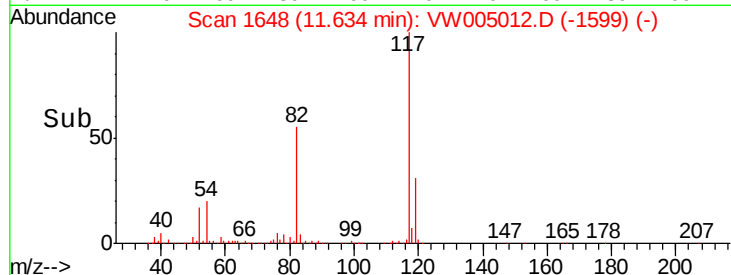
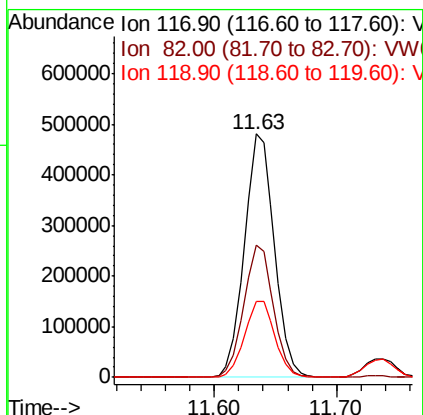
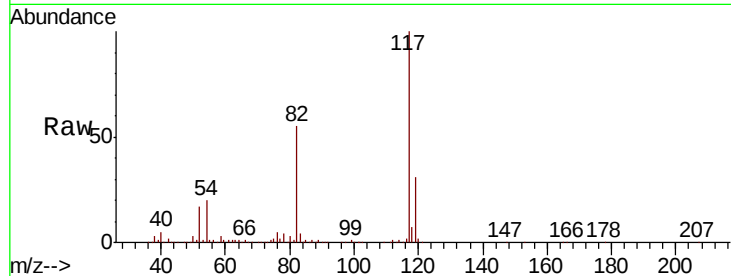




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

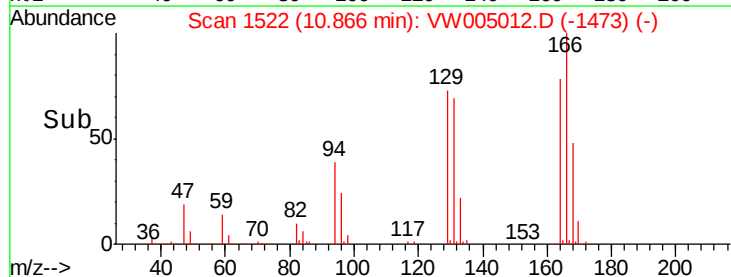
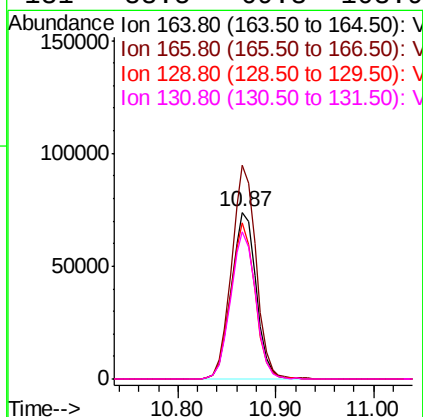
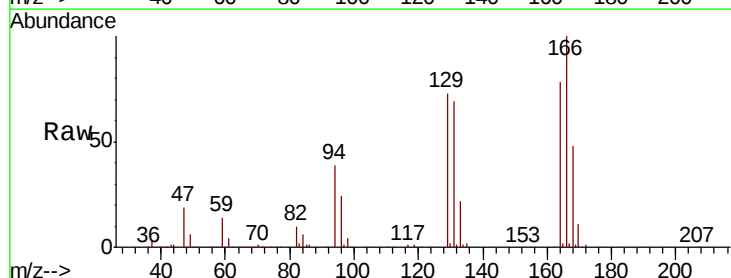
Instrument :  
MSVOA\_W  
ClientSampleId :

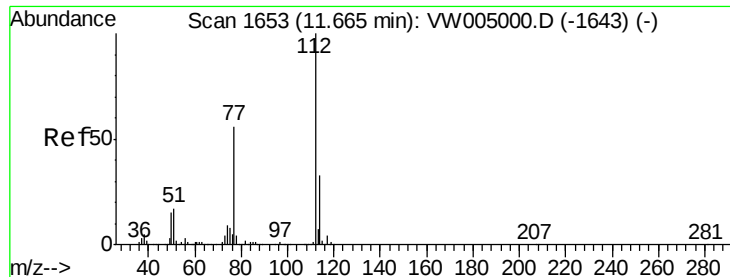
Tot Ion:117 Resp: 817815  
Ion Ratio Lower Upper  
117 100  
82 54.6 43.3 64.9  
119 31.4 25.0 37.6



#64  
Tetrachloroethene  
Concen: 21.79 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion:164 Resp: 129953  
Ion Ratio Lower Upper  
164 100  
166 128.2 99.4 149.0  
129 93.4 72.2 108.2  
131 88.5 69.3 103.9





#65

Chlorobenzene

Concen: 19.89 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

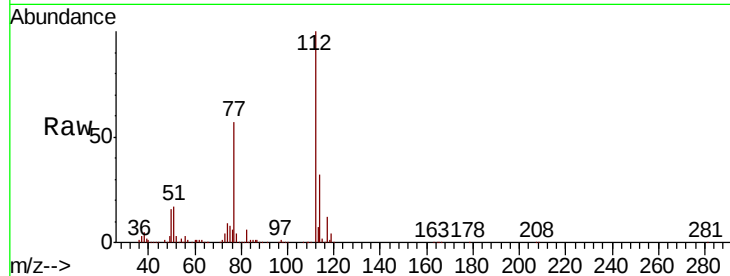
ClientSampleId :

Tot Ion:112 Resp: 357400

Ion Ratio Lower Upper

112 100

114 31.9 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

250000

200000

150000

100000

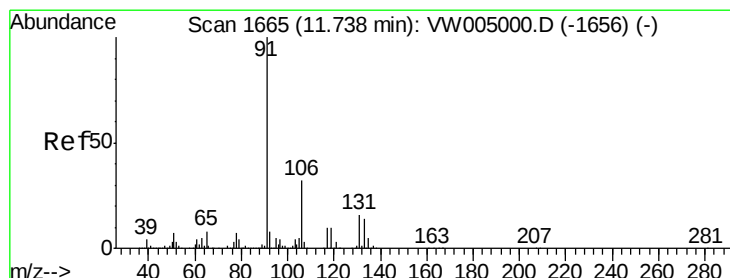
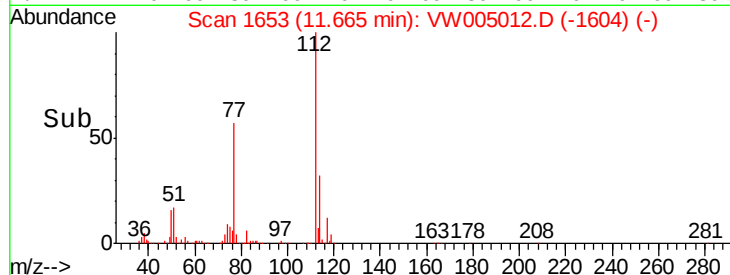
50000

0

11.66

11.60 11.70

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 18.83 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

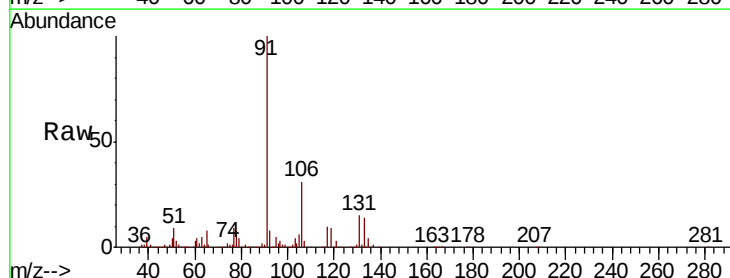
Tgt Ion:131 Resp: 92942

Ion Ratio Lower Upper

131 100

133 96.4 47.4 142.3

119 67.1 33.1 99.3



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

200000

150000

100000

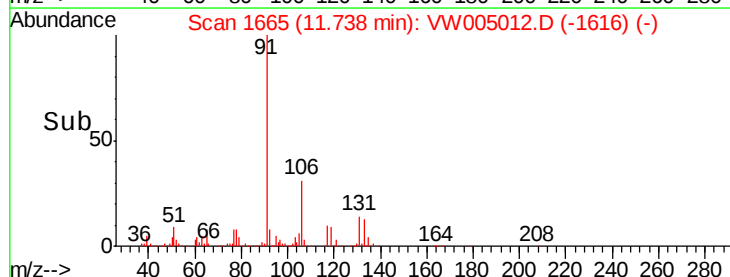
50000

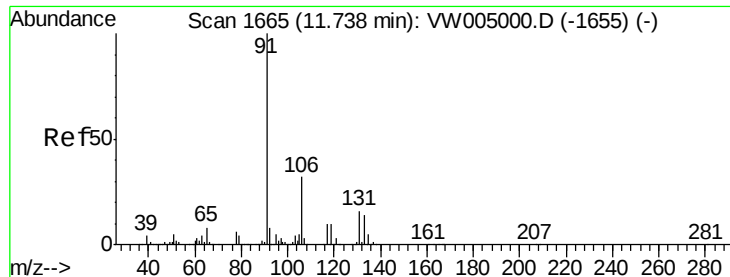
0

11.74

11.65 11.70 11.75 11.80

Time-->

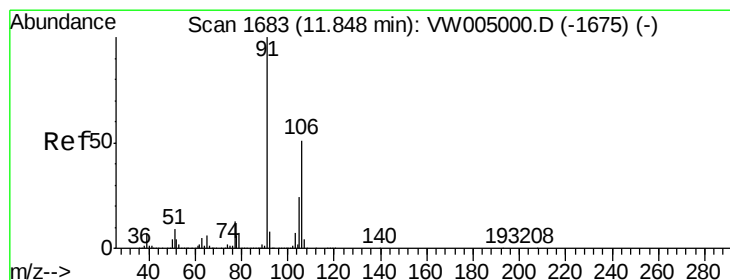
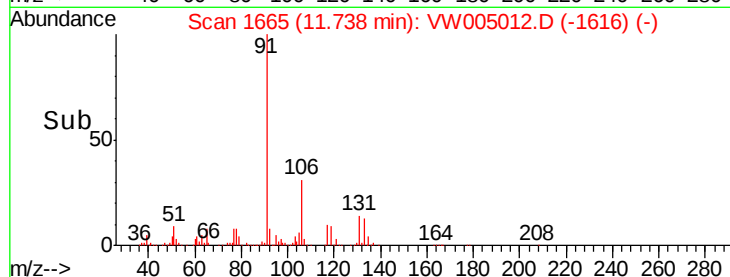
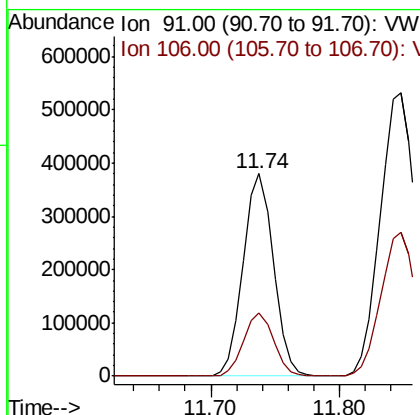
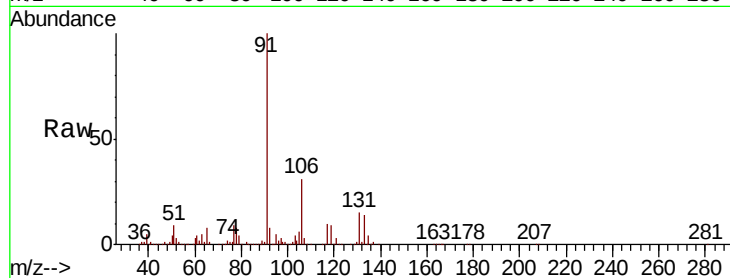




#67  
Ethyl Benzene  
Concen: 20.15 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

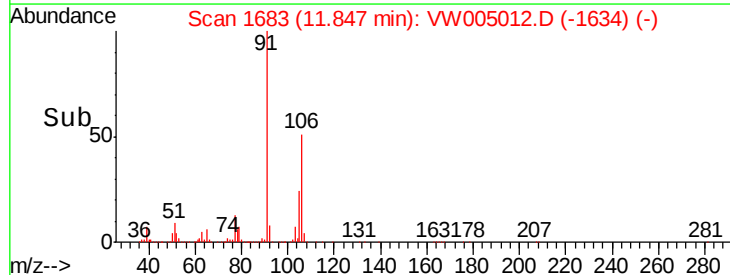
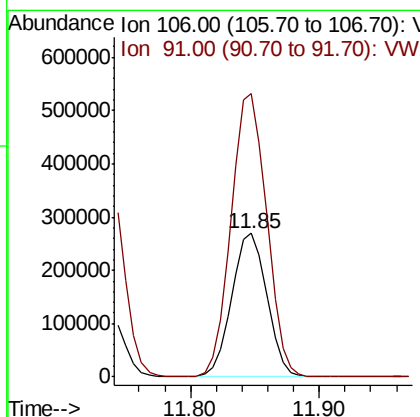
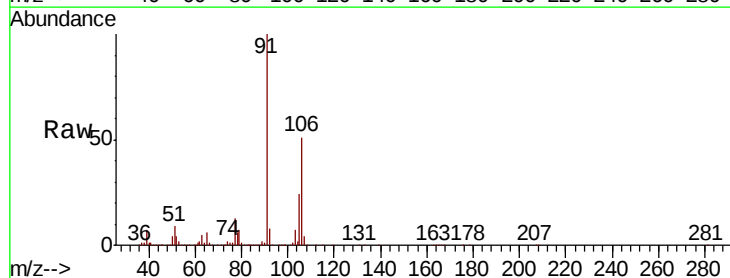
Instrument :  
MSVOA\_W  
ClientSampled :

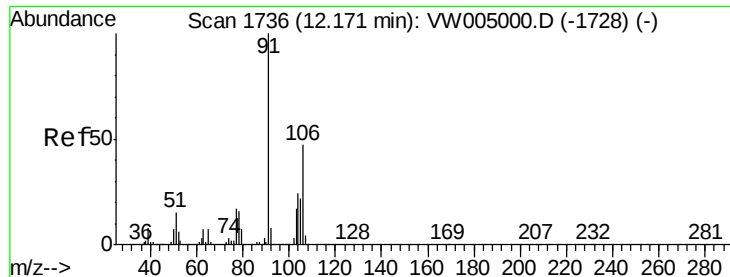
Tot Ion: 91 Resp: 619841  
Ion Ratio Lower Upper  
91 100  
106 31.4 25.4 38.2



#68  
m/p-Xylenes  
Concen: 40.68 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion:106 Resp: 510510  
Ion Ratio Lower Upper  
106 100  
91 200.3 158.4 237.6

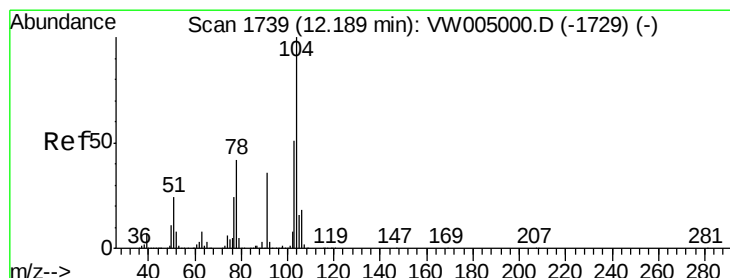
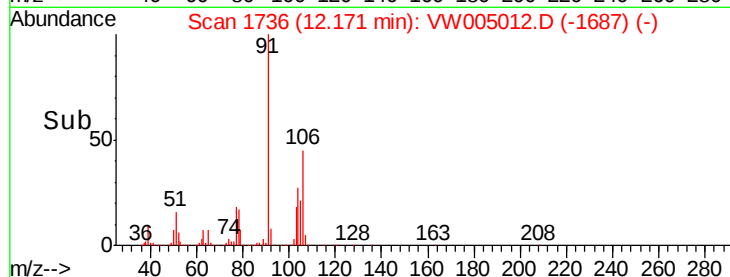
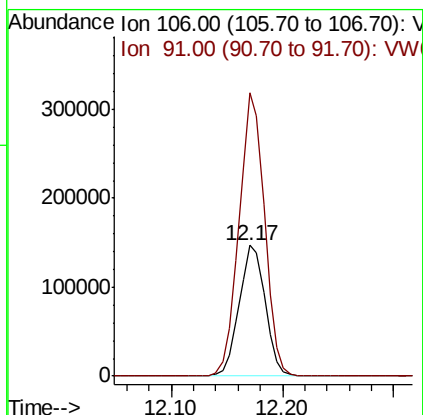
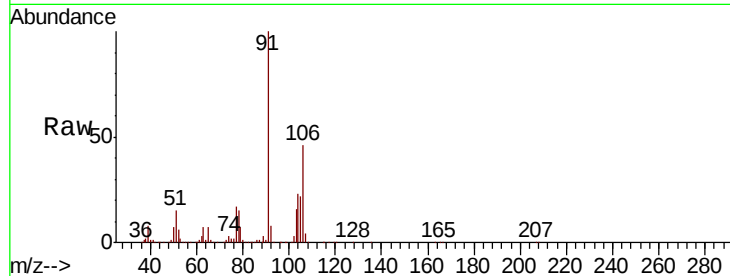




#69  
o-Xylene  
Concen: 20.83 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

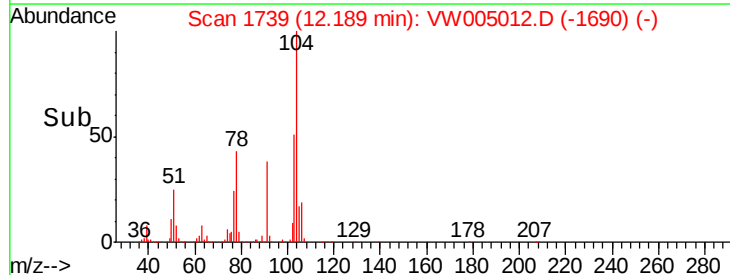
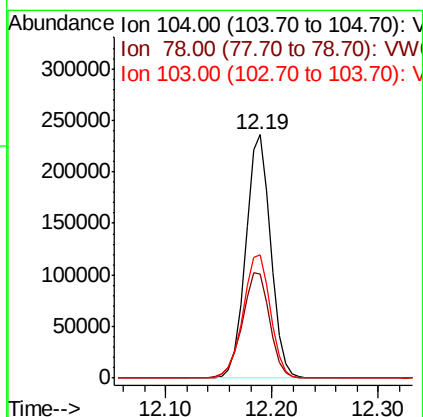
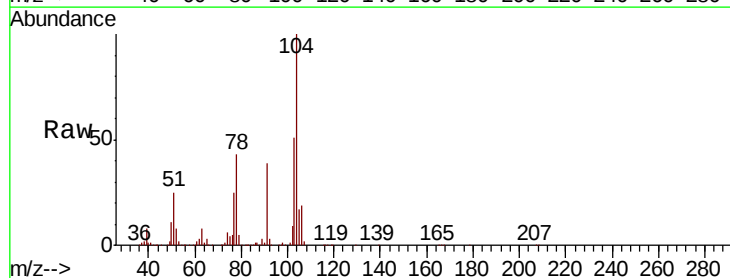
Instrument :  
MSVOA\_W  
ClientSampleId :

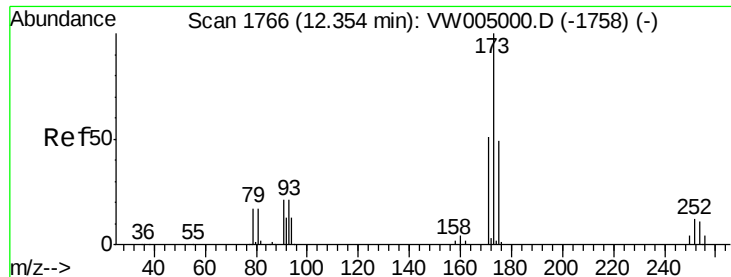
Tot Ion:106 Resp: 238846  
Ion Ratio Lower Upper  
106 100  
91 211.6 104.4 313.1



#70  
Styrene  
Concen: 20.41 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion:104 Resp: 388218  
Ion Ratio Lower Upper  
104 100  
78 47.9 37.6 56.4  
103 55.7 43.9 65.9

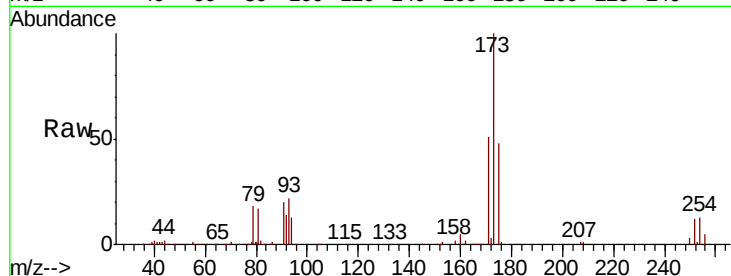




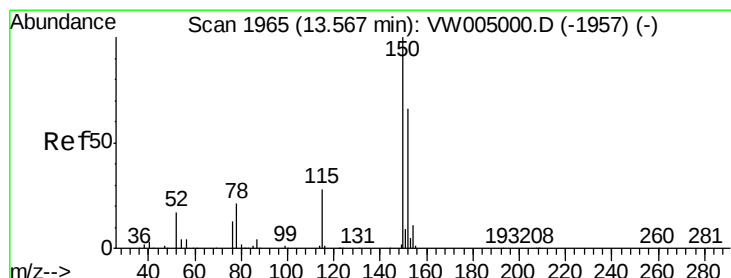
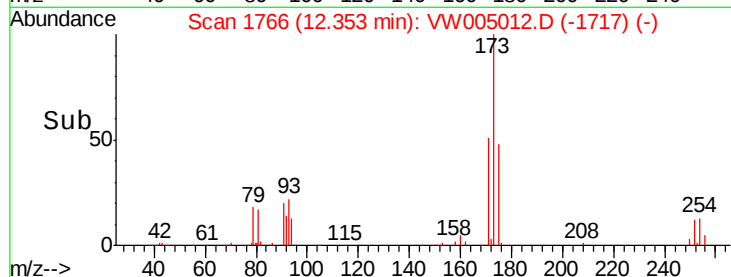
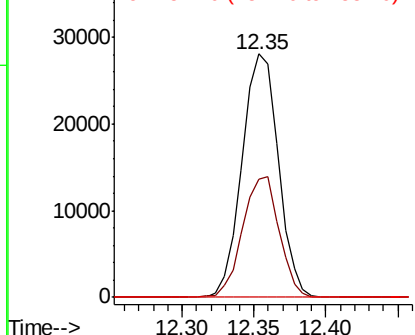
#71  
Bromoform  
Concen: 17.87 ug/l  
RT: 12.35 min Scan# 1766  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:173 Resp: 49035  
Ion Ratio Lower Upper  
173 100  
175 49.9 24.3 73.0  
254 0.0 0.1 0.1#

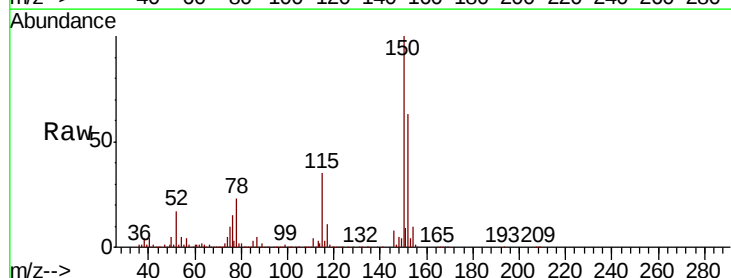


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

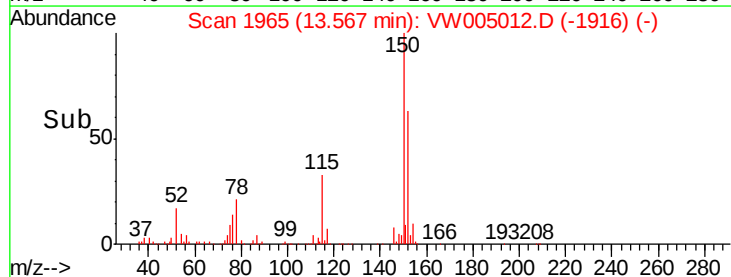
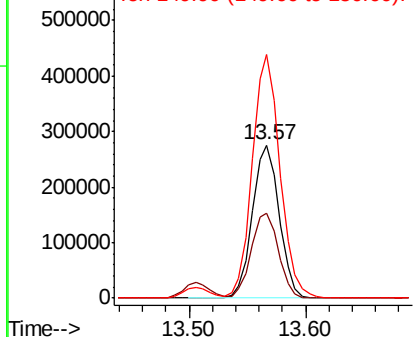


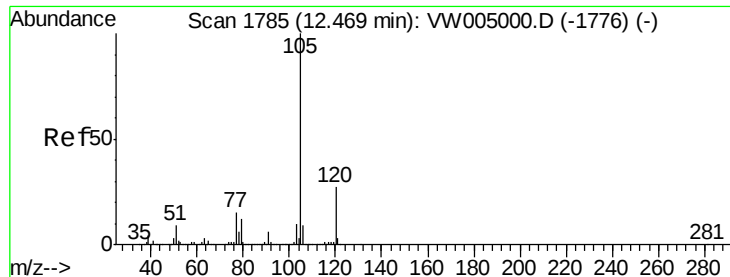
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Tgt Ion:152 Resp: 441909  
Ion Ratio Lower Upper  
152 100  
115 56.7 28.0 83.9  
150 164.1 0.0 347.2



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: 21.12 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

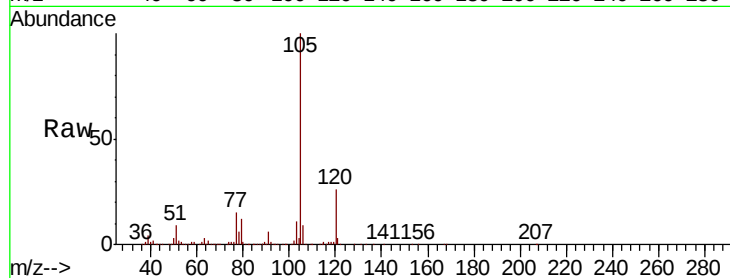
ClientSampled :

Tot Ion:105 Resp: 622191

Ion Ratio Lower Upper

105 100

120 26.3 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

400000

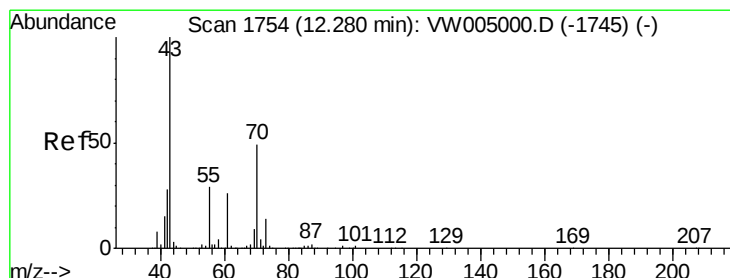
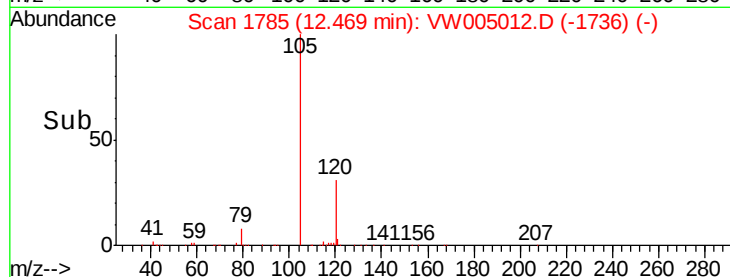
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 20.12 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Tgt Ion: 43 Resp: 111825

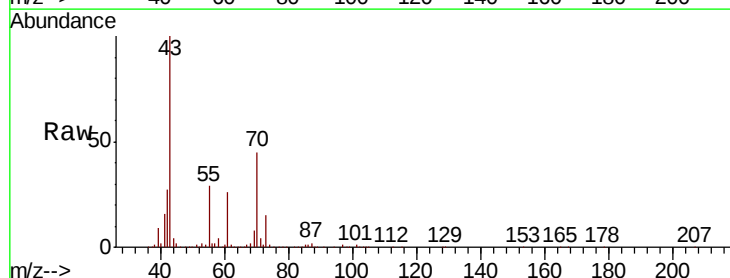
Ion Ratio Lower Upper

43 100

70 45.7 38.6 57.8

55 28.6 23.6 35.4

61 25.6 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

120000

100000

80000

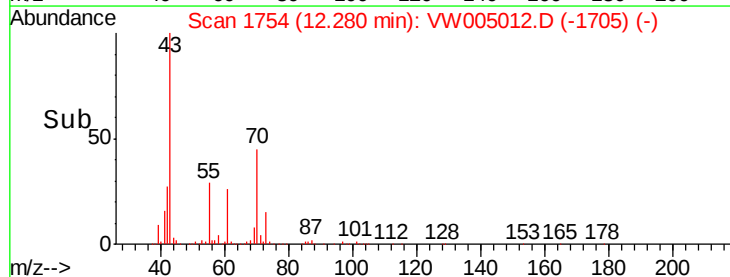
60000

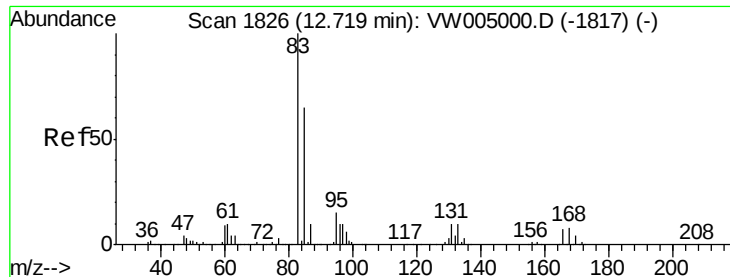
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.59 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

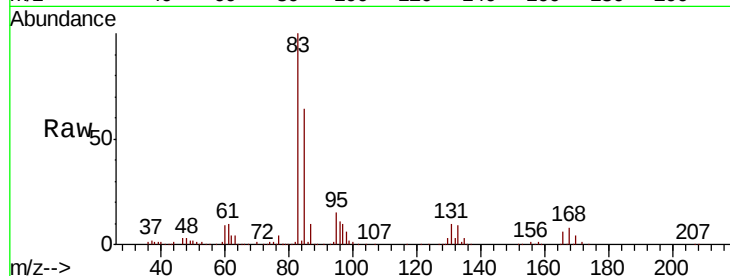
Tot Ion: 83 Resp: 87380

Ion Ratio Lower Upper

83 100

131 11.2 5.5 16.5

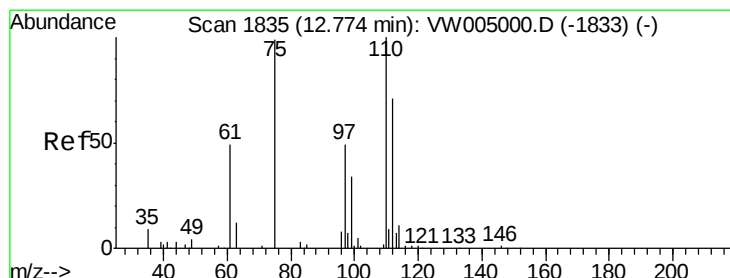
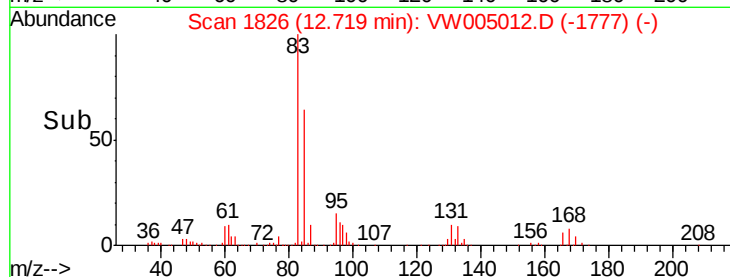
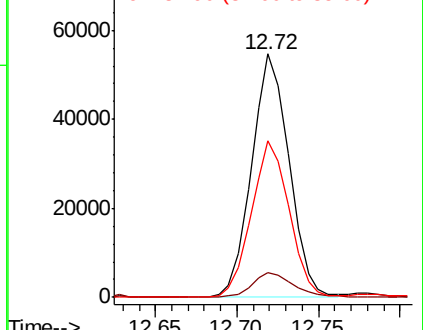
85 64.7 31.9 95.9



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: 37.07 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VW005012.D

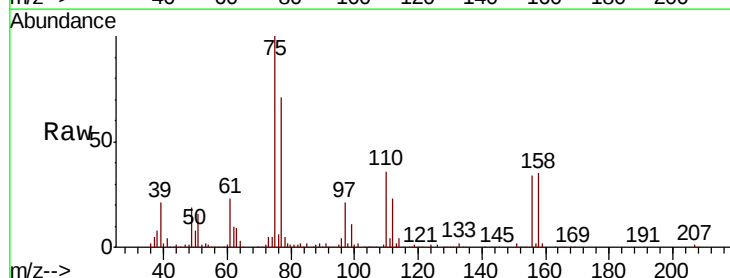
Acq: 30 Aug 2018 12:35

Tgt Ion: 75 Resp: 116023

Ion Ratio Lower Upper

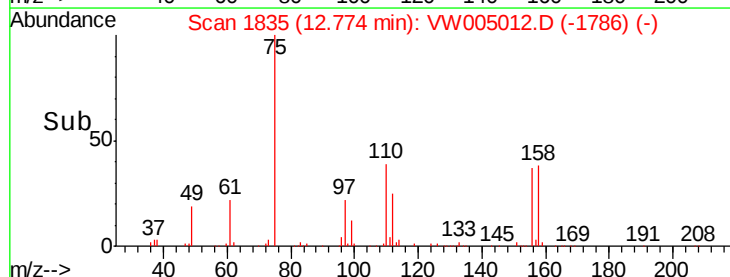
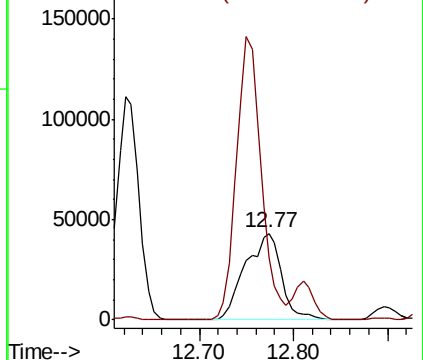
75 100

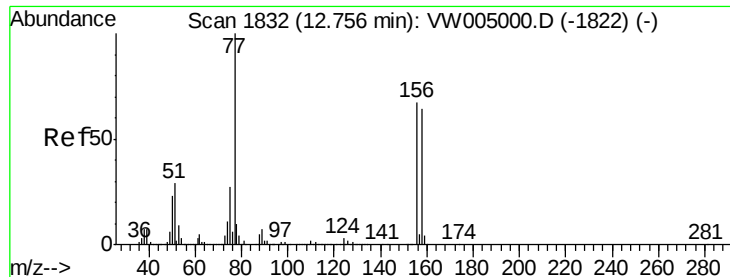
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.67 ug/l

RT: 12.76 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

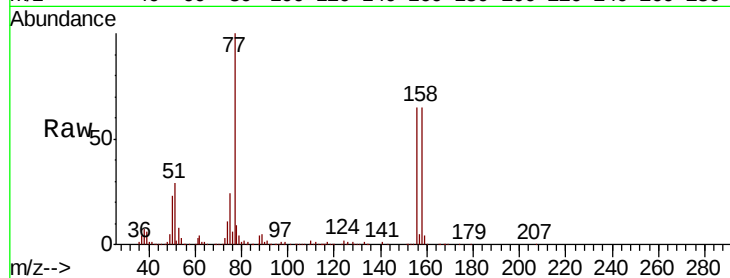
Tot Ion:156 Resp: 149420

Ion Ratio Lower Upper

156 100

77 174.7 86.9 260.6

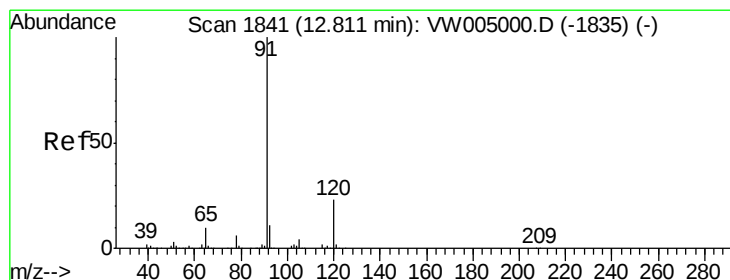
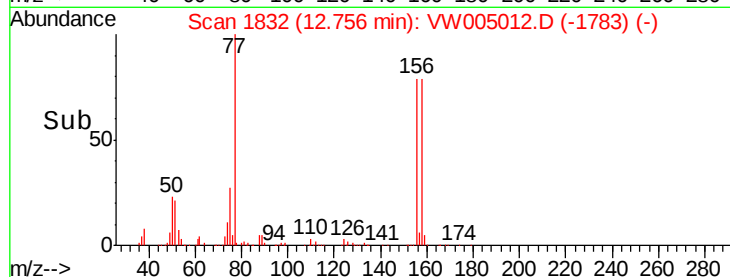
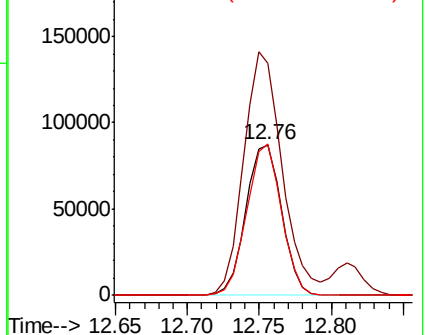
158 97.3 48.6 145.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.24 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW005012.D

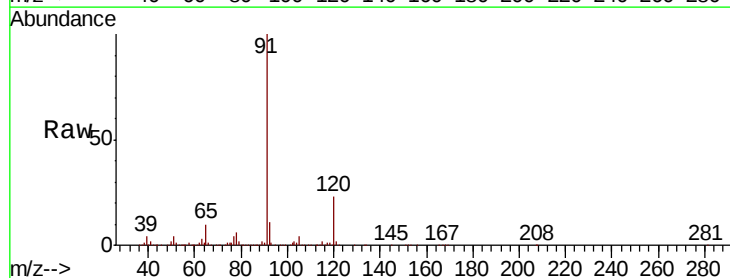
Acq: 30 Aug 2018 12:35

Tgt Ion: 91 Resp: 771627

Ion Ratio Lower Upper

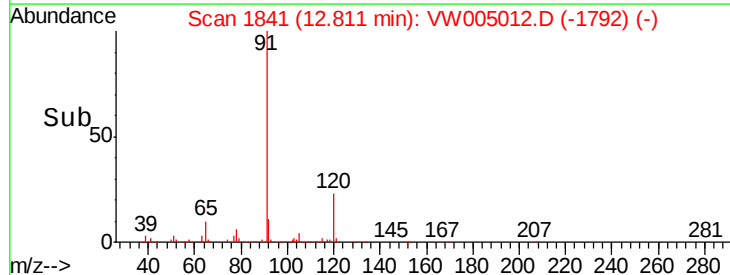
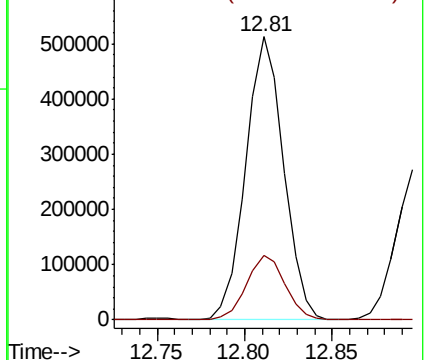
91 100

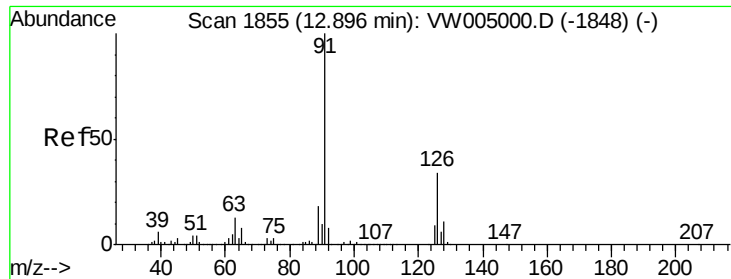
120 23.1 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.28 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

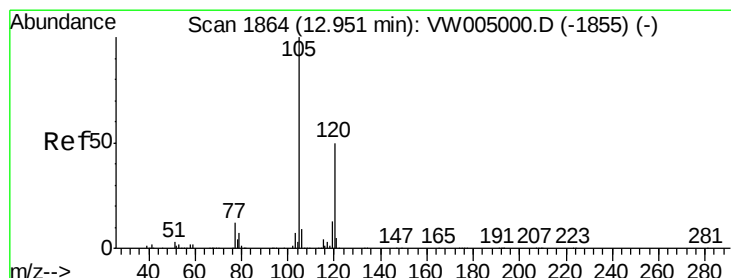
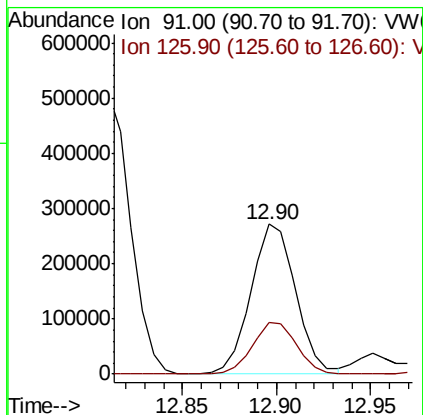
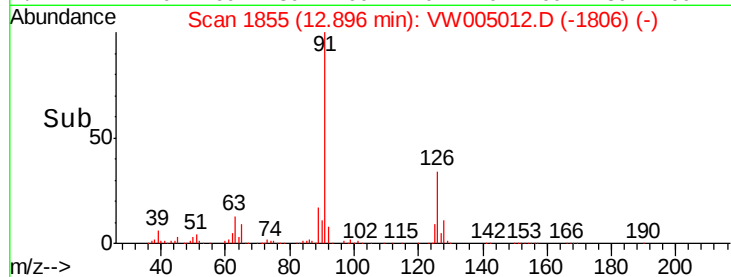
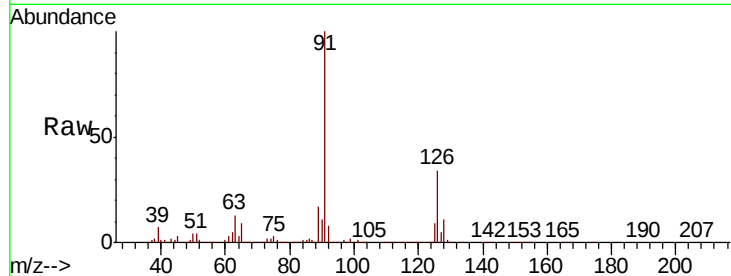
ClientSampled :

Tot Ion: 91 Resp: 446606

Ion Ratio Lower Upper

91 100

126 34.5 17.3 52.0



#80

1,3,5-Trimethylbenzene

Concen: 21.22 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW005012.D

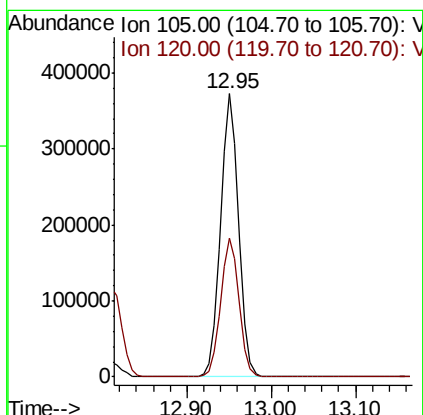
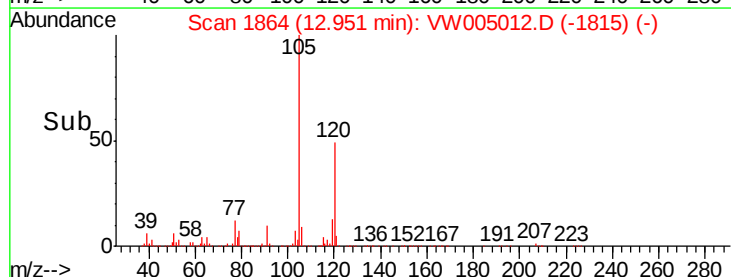
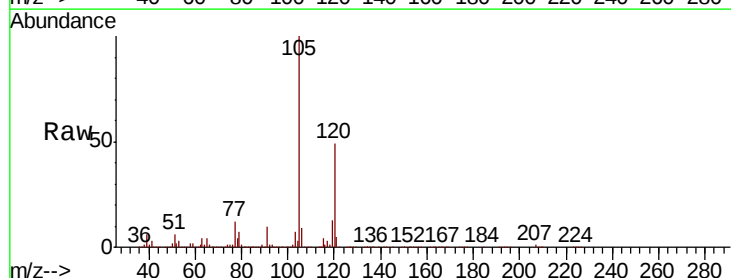
Acq: 30 Aug 2018 12:35

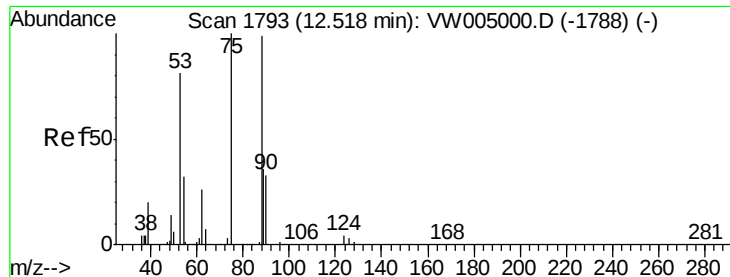
Tgt Ion:105 Resp: 552172

Ion Ratio Lower Upper

105 100

120 49.6 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 16.74 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

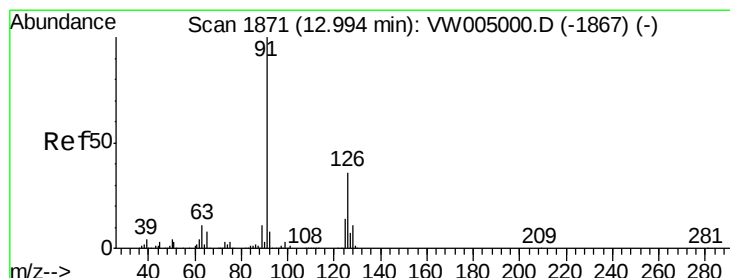
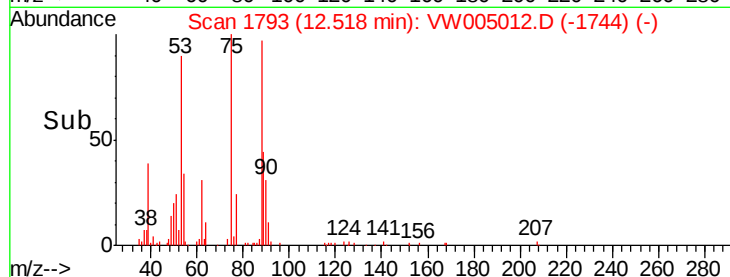
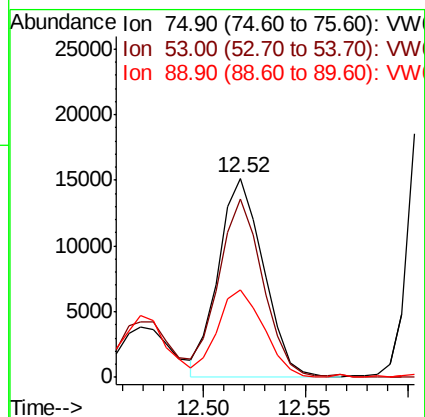
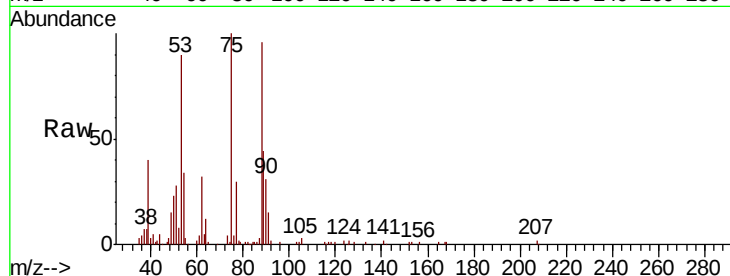
Tot Ion: 75 Resp: 23185

Ion Ratio Lower Upper

75 100

53 88.8 67.4 101.2

89 45.2 35.0 52.6



#82

4-Chlorotoluene

Concen: 20.98 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VW005012.D

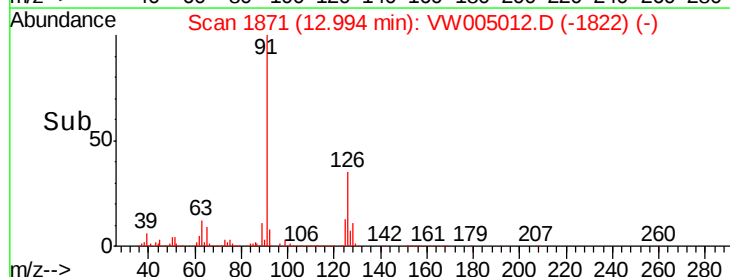
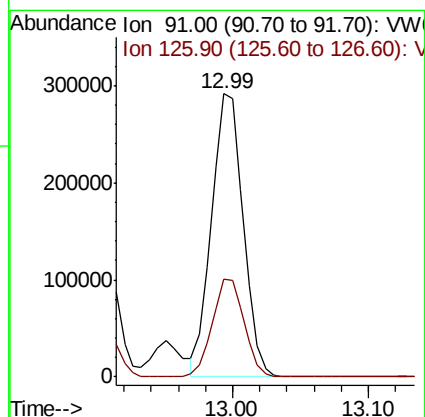
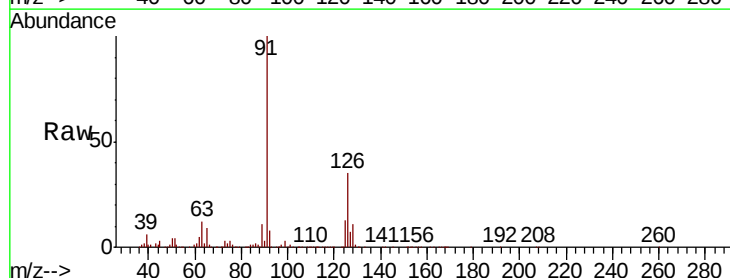
Acq: 30 Aug 2018 12:35

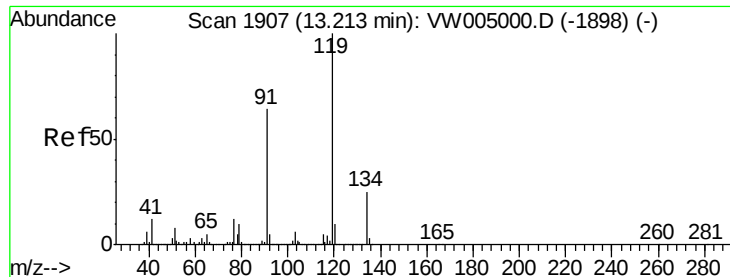
Tgt Ion: 91 Resp: 469151

Ion Ratio Lower Upper

91 100

126 34.8 17.5 52.5





#83

tert-Butylbenzene

Concen: 20.99 ug/l

RT: 13.21 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

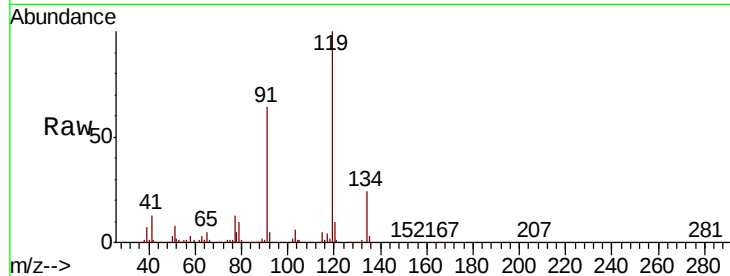
Tot Ion:119 Resp: 458890

Ion Ratio Lower Upper

119 100

91 64.6 31.9 95.5

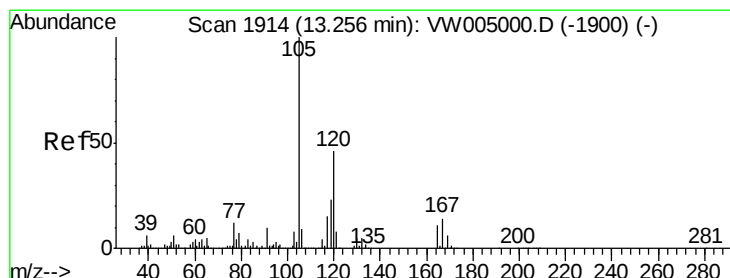
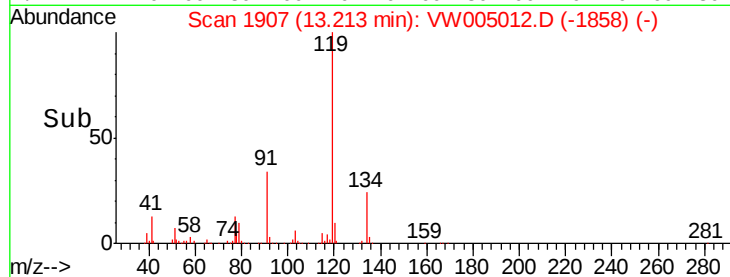
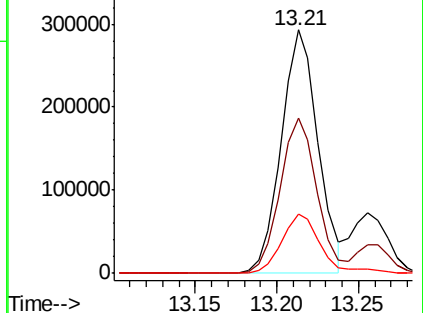
134 25.7 13.2 39.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.04 ug/l

RT: 13.26 min Scan# 1914

Delta R.T. -0.00 min

Lab File: VW005012.D

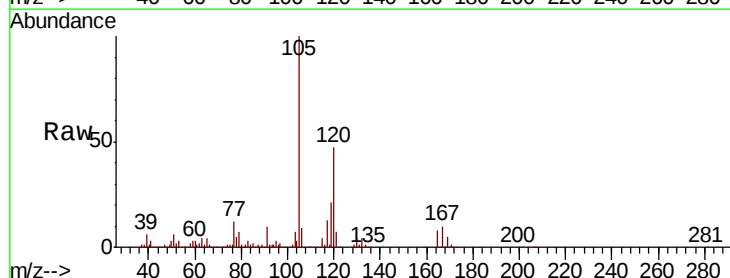
Acq: 30 Aug 2018 12:35

Tgt Ion:105 Resp: 555539

Ion Ratio Lower Upper

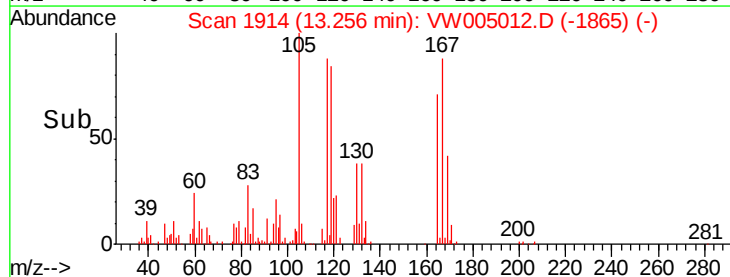
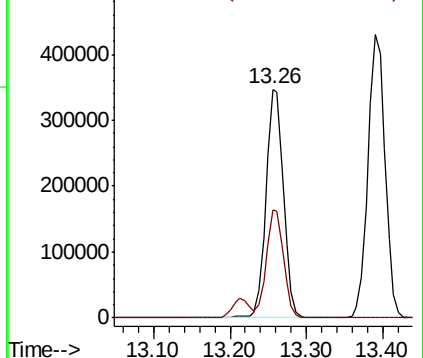
105 100

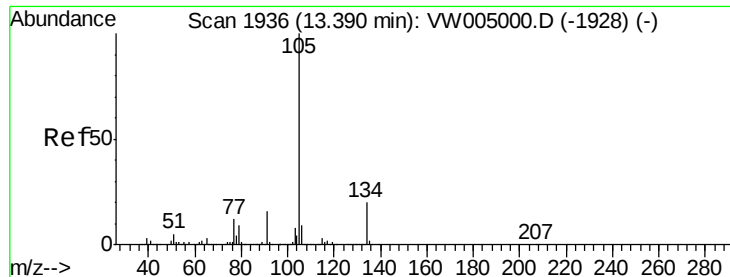
120 46.3 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

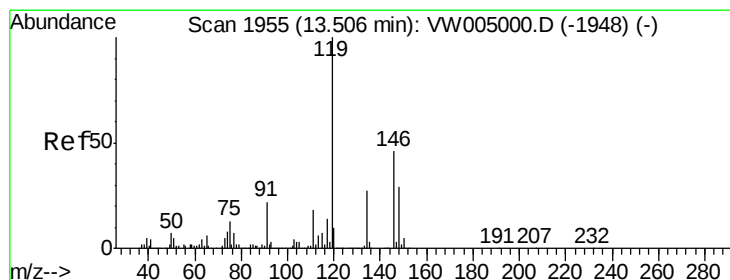
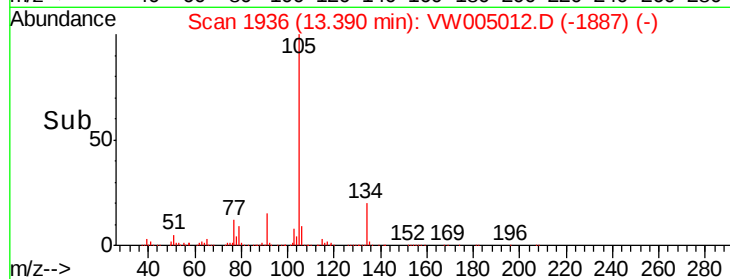
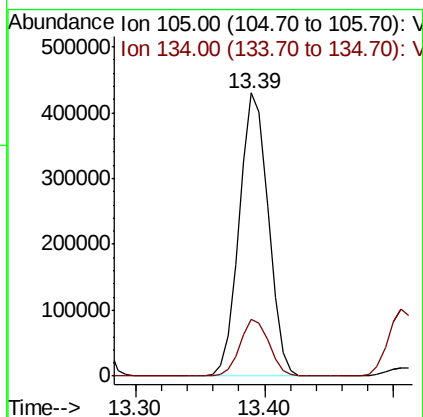
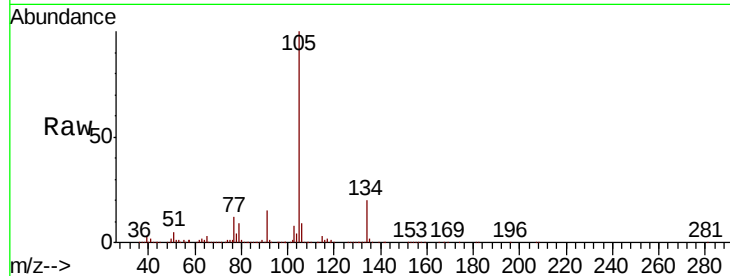




#85  
 sec-Butylbenzene  
 Concen: 20.85 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

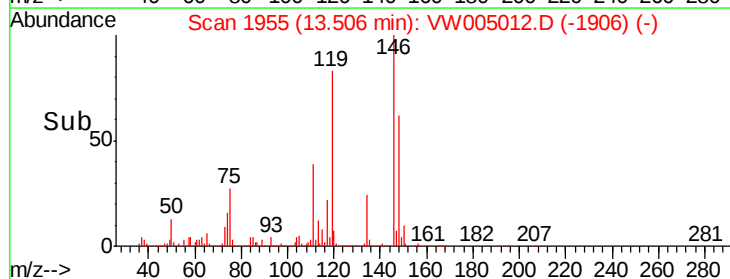
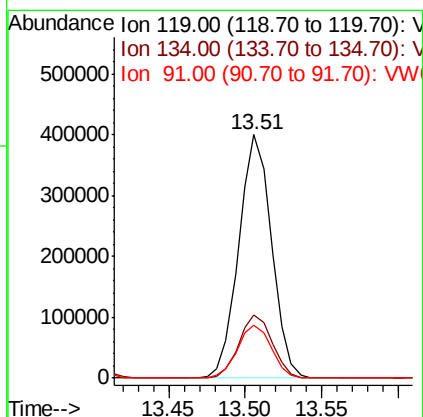
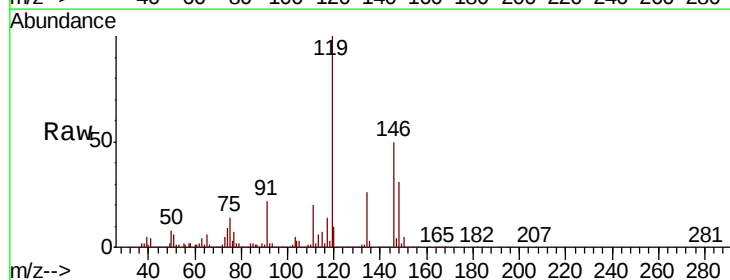
Instrument :  
 MSVOA\_W  
 ClientSampleId :

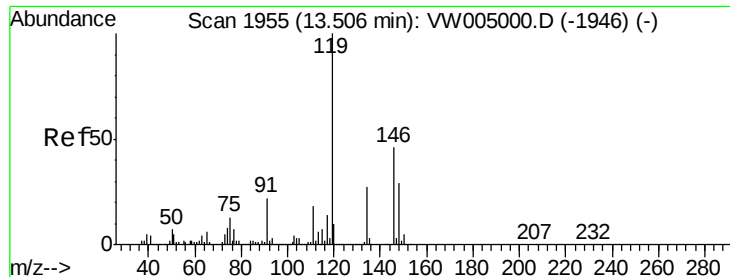
Tot Ion:105 Resp: 669085  
 Ion Ratio Lower Upper  
 105 100  
 134 20.0 10.1 30.3



#86  
 p-Isopropyltoluene  
 Concen: 20.67 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Tgt Ion:119 Resp: 594111  
 Ion Ratio Lower Upper  
 119 100  
 134 26.3 13.1 39.3  
 91 22.3 10.9 32.9





#87

1,3-Dichlorobenzene

Concen: 20.34 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

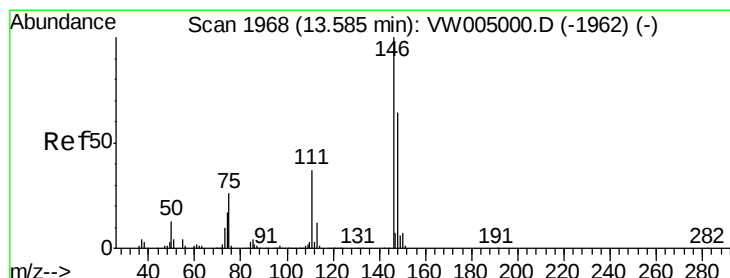
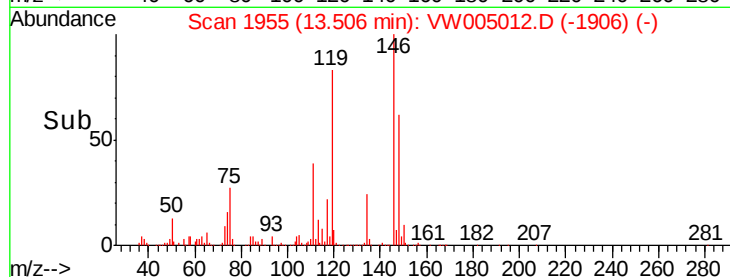
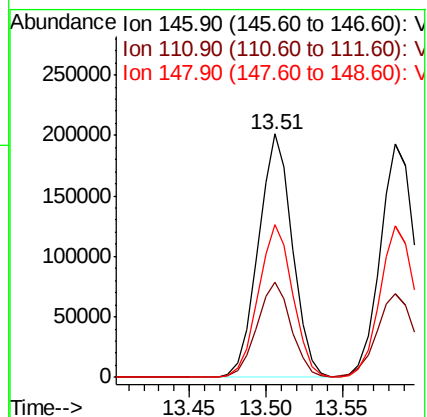
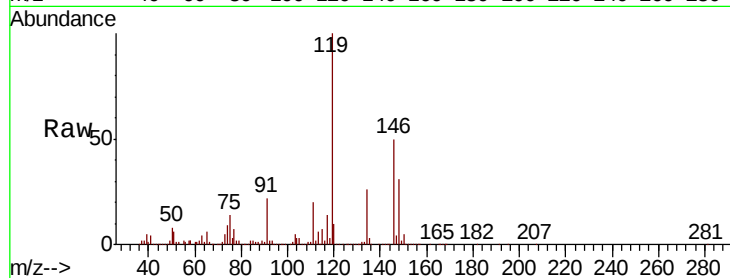
Tot Ion:146 Resp: 311608

Ion Ratio Lower Upper

146 100

111 39.2 19.3 57.8

148 63.5 31.6 94.7



#88

1,4-Dichlorobenzene

Concen: 20.03 ug/l

RT: 13.58 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

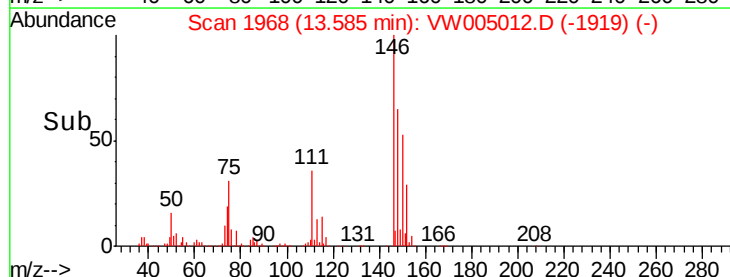
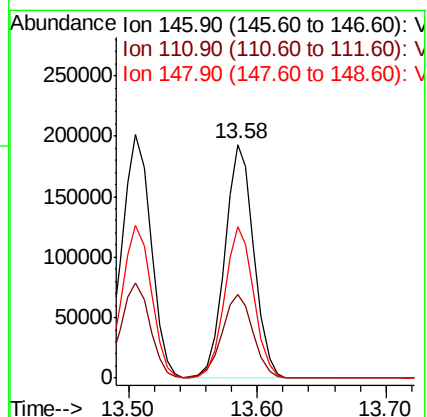
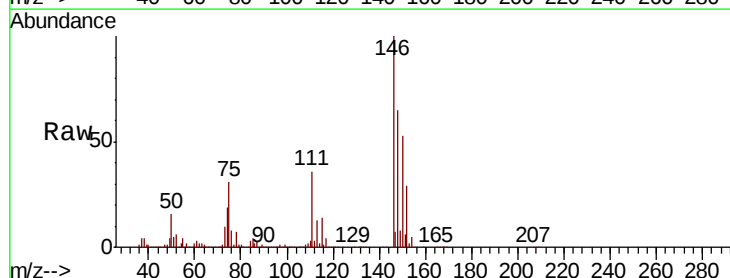
Tgt Ion:146 Resp: 304022

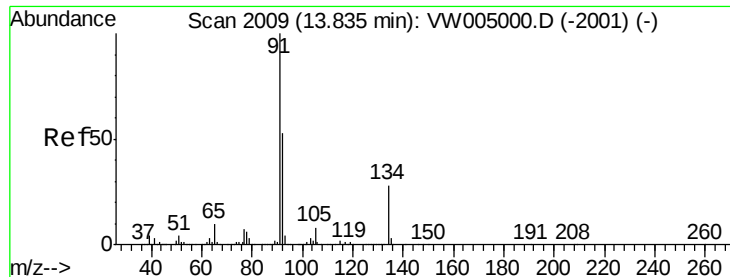
Ion Ratio Lower Upper

146 100

111 38.4 18.7 56.1

148 65.4 31.7 95.1





#89

n-Butylbenzene

Concen: 19.96 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

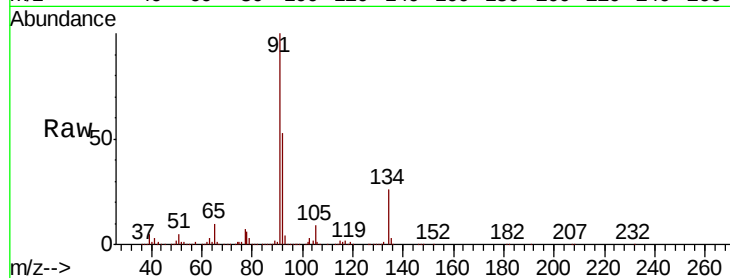
Tot Ion: 91 Resp: 538733

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 53.0  | 26.5  | 79.4  |
| 134 | 26.2  | 13.4  | 40.1  |

91 100

92 53.0 26.5 79.4

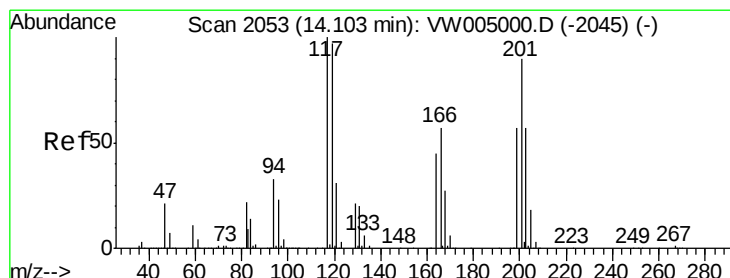
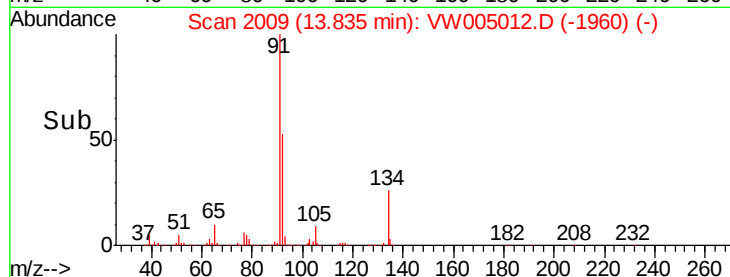
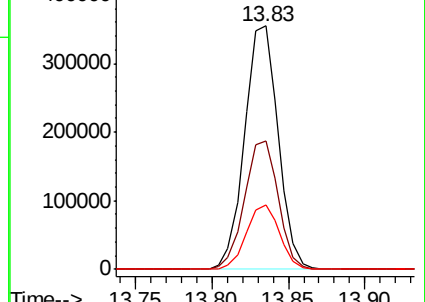
134 26.2 13.4 40.1



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: 19.08 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VW005012.D

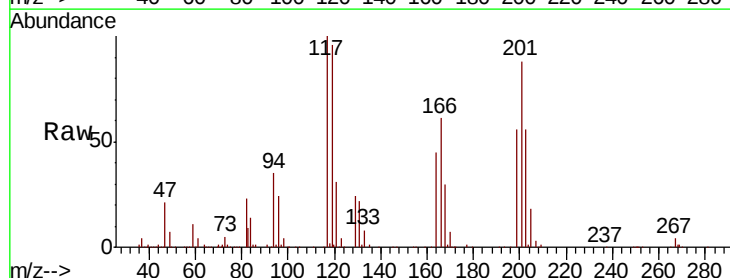
Acq: 30 Aug 2018 12:35

Tgt Ion: 117 Resp: 86229

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 86.9  | 44.3  | 132.8 |

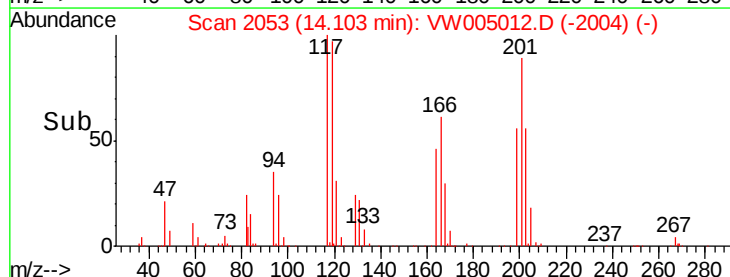
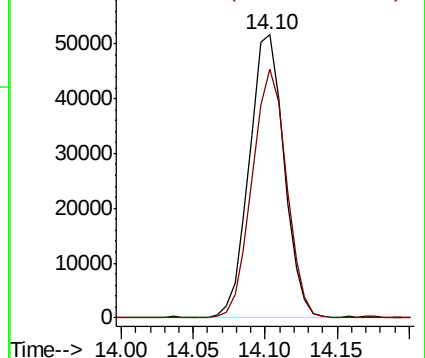
117 100

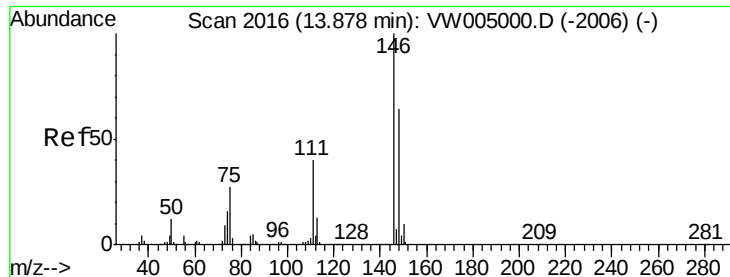
201 86.9 44.3 132.8



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 20.59 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

Instrument :

MSVOA\_W

ClientSampleId :

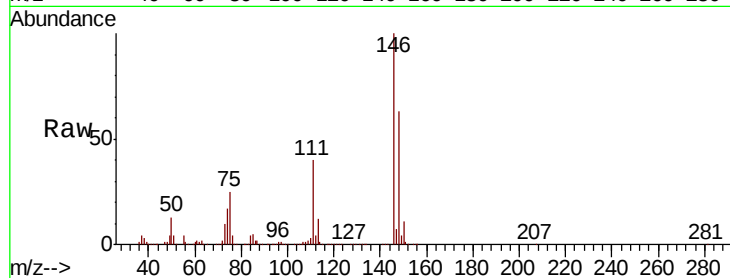
Tot Ion:146 Resp: 277670

Ion Ratio Lower Upper

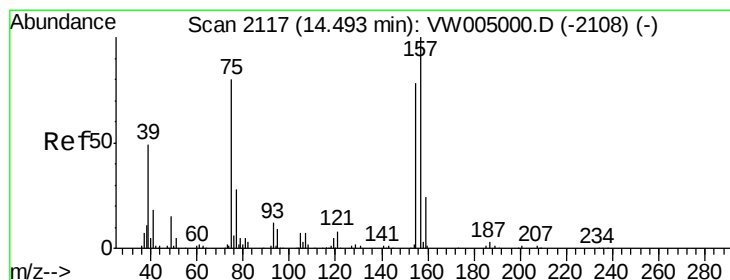
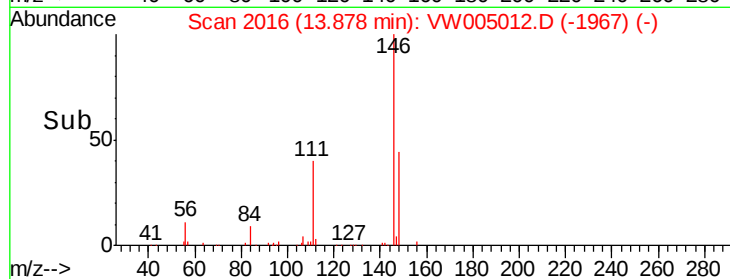
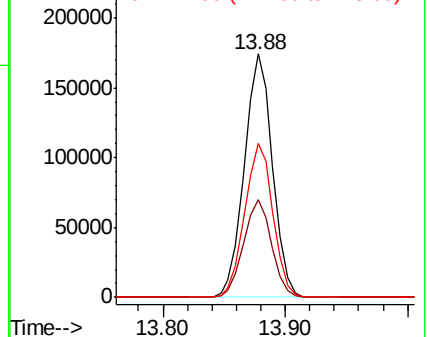
146 100

111 40.0 19.9 59.7

148 63.5 31.9 95.7



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.61 ug/l

RT: 14.49 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VW005012.D

Acq: 30 Aug 2018 12:35

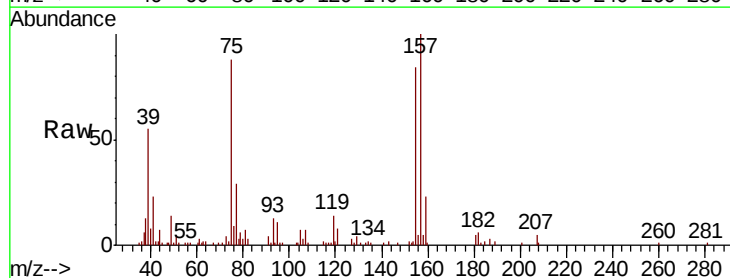
Tgt Ion: 75 Resp: 15107

Ion Ratio Lower Upper

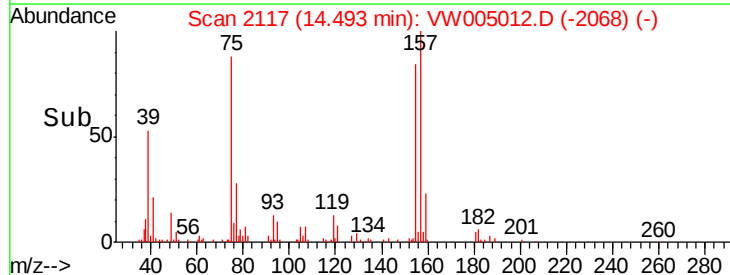
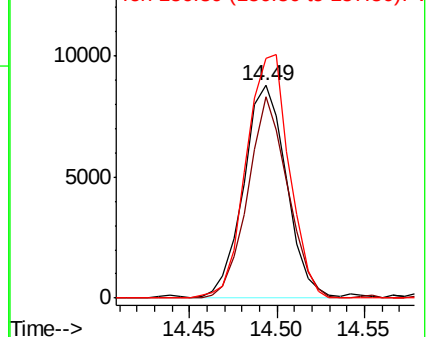
75 100

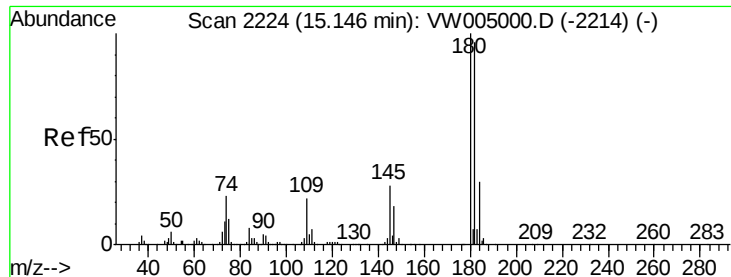
155 88.1 46.1 138.2

157 114.3 58.7 176.1



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

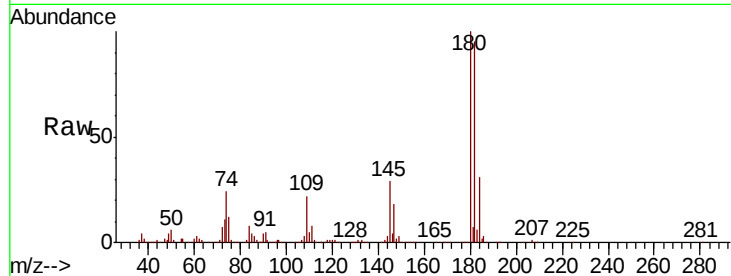




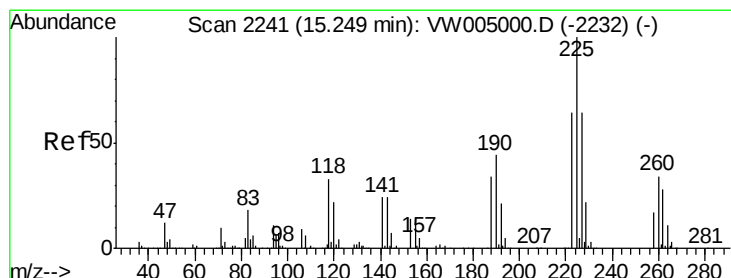
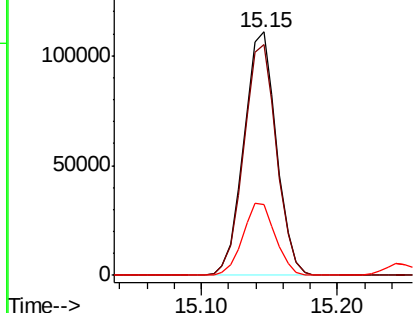
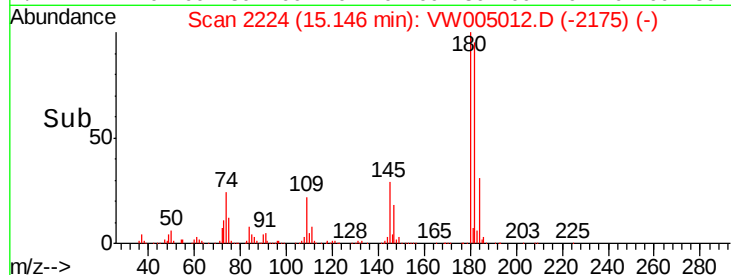
#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.62 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. -0.00 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

Instrument :  
 MSVOA\_W  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.0  | 47.6  | 142.8 |
| 145     | 29.8  | 14.3  | 42.9  |

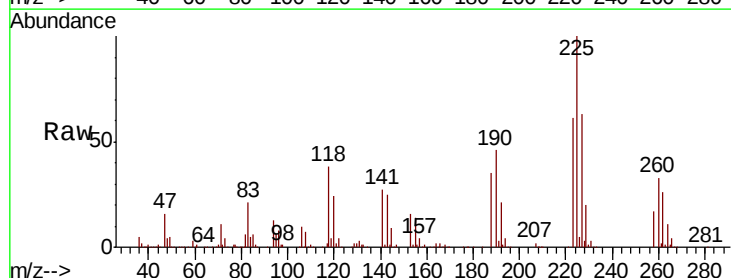


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

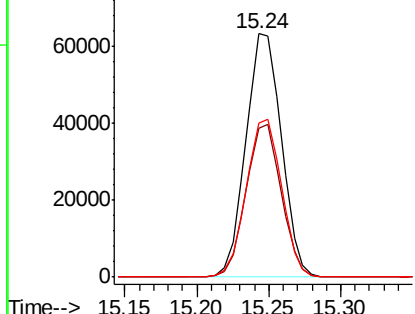
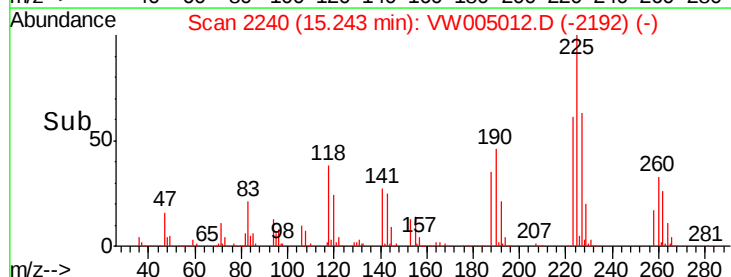


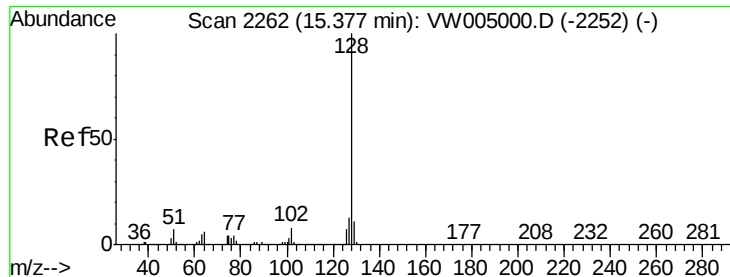
#94  
 Hexachlorobutadiene  
 Concen: 18.29 ug/l  
 RT: 15.24 min Scan# 2240  
 Delta R.T. -0.01 min  
 Lab File: VW005012.D  
 Acq: 30 Aug 2018 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.2  | 32.0  | 96.0  |
| 227     | 64.6  | 31.9  | 95.7  |



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

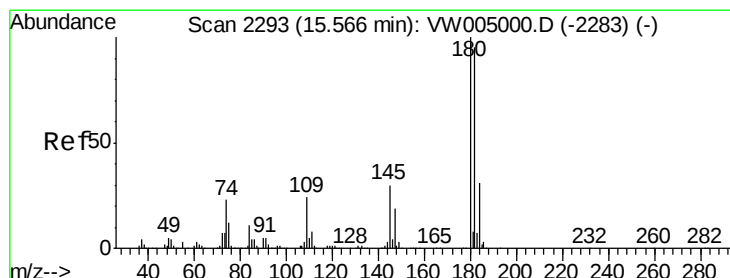
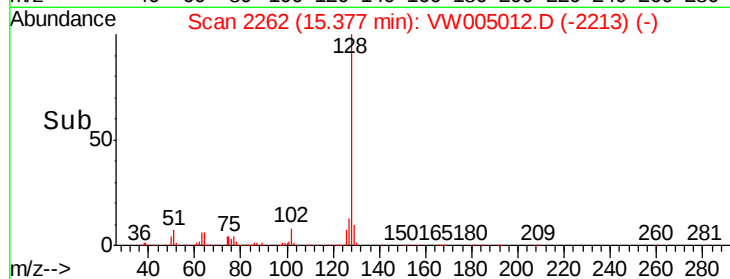
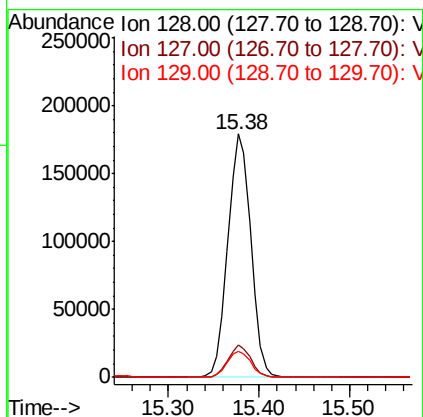
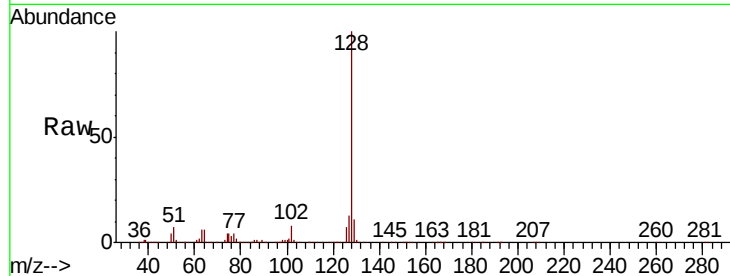




#95  
Naphthalene  
Concen: 20.60 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.5  | 15.7  |
| 129     | 10.8  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 19.61 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. -0.00 min  
Lab File: VW005012.D  
Acq: 30 Aug 2018 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.8  | 47.6  | 142.8 |
| 145     | 31.6  | 15.1  | 45.3  |

