

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW012418\  
 Data File : VW000948.D  
 Acq On : 24 Jan 2018 15:16  
 Operator : JC/SY  
 Sample : VW0124SBS01  
 Misc : 5.0G/5.0ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 24 16:04:25 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W012318S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 13:31:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 297283   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 418149   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 381723   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 211960   | 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   | 147759   | 51.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.72% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 127925   | 49.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.88%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 532344   | 52.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.42% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 193760   | 52.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.36% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 54370    | 18.968 | ug/l   | 98     |
| 3) Chloromethane              | 2.22 | 50   | 50622    | 19.983 | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.36 | 62   | 45296    | 19.224 | ug/l   | 98     |
| 5) Bromomethane               | 2.73 | 94   | 32056    | 18.487 | ug/l   | 97     |
| 6) Chloroethane               | 2.90 | 64   | 24464    | 18.685 | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 83664    | 19.283 | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74   | 21611    | 19.886 | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.04 | 101  | 59286    | 21.152 | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 45363    | 18.641 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59   | 22615    | 73.187 | ug/l # | 76     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 50236    | 20.853 | ug/l   | 85     |
| 13) Acrolein                  | 3.90 | 56   | 22105    | 73.269 | ug/l   | 96     |
| 14) Allyl chloride            | 4.67 | 41   | 72846    | 19.406 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 73863    | 87.011 | ug/l   | 99     |
| 16) Acetone                   | 4.13 | 43   | 82571    | 80.199 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.36 | 76   | 155153   | 19.500 | ug/l   | 97     |
| 18) Methyl Acetate            | 4.67 | 43   | 33440    | 15.955 | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 128626   | 20.784 | ug/l   | 100    |
| 20) Methylene Chloride        | 4.90 | 84   | 59112    | 21.311 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 56768    | 20.281 | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.32 | 45   | 148107   | 22.038 | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.26 | 43   | 382685   | 91.644 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 95261    | 21.177 | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43   | 104905   | 83.219 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 92297    | 20.269 | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 60124    | 20.784 | ug/l   | 97     |
| 28) Bromochloromethane        | 7.51 | 49   | 38166    | 20.198 | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.54 | 42   | 59647    | 85.998 | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83   | 101714   | 20.964 | ug/l   | 98     |
| 31) Cyclohexane               | 7.95 | 56   | 90056    | 19.392 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 95430    | 20.353 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 79862    | 20.017 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 40112    | 17.811 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.06 | 117  | 86442    | 19.640 | ug/l   | 99     |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 24 16:04:25 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W012318S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 23 13:31:00 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 92735    | 19.297  | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 224165   | 20.663  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 19996    | 15.819  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 69582    | 20.816  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 71998    | 18.859  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 66013    | 20.479  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 53715    | 21.223  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 32478    | 20.086  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 74387    | 20.800  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 33399    | 18.215  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 12229    | 346.001 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 197736   | 90.011  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 144093   | 21.026  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 71042    | 19.608  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 81683    | 20.493  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 46565    | 20.622  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 54179    | 19.968  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 75651    | 20.515  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 112989   | 84.732  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 147332   | 86.485  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 55625    | 20.396  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 47228    | 20.076  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 62566    | 19.748  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 164798   | 21.043  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 59557    | 21.178  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 276720   | 20.917  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 217989   | 42.394  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 98854    | 20.964  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 165864   | 21.578  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 37558    | 19.685  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 275364   | 20.105  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 63993    | 19.242  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 56036    | 19.143  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 76179    | 31.059  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 72562    | 20.824  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.82 | 91   | 338634   | 20.494  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 193762   | 20.786  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 243174   | 20.871  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13972    | 17.525  | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 206331   | 20.835  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 210129   | 20.581  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 246662   | 20.934  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 299871   | 20.354  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 267851   | 20.497  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 141987   | 20.543  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 142937   | 20.682  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 249047   | 20.288  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 48005    | 19.763  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 130826   | 21.014  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 11183    | 17.310  | ug/l   | 97       |

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Misc : 5.0G/5.0ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jan 24 16:04:25 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W012318S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 23 13:31:00 2018  
Response via : Initial Calibration

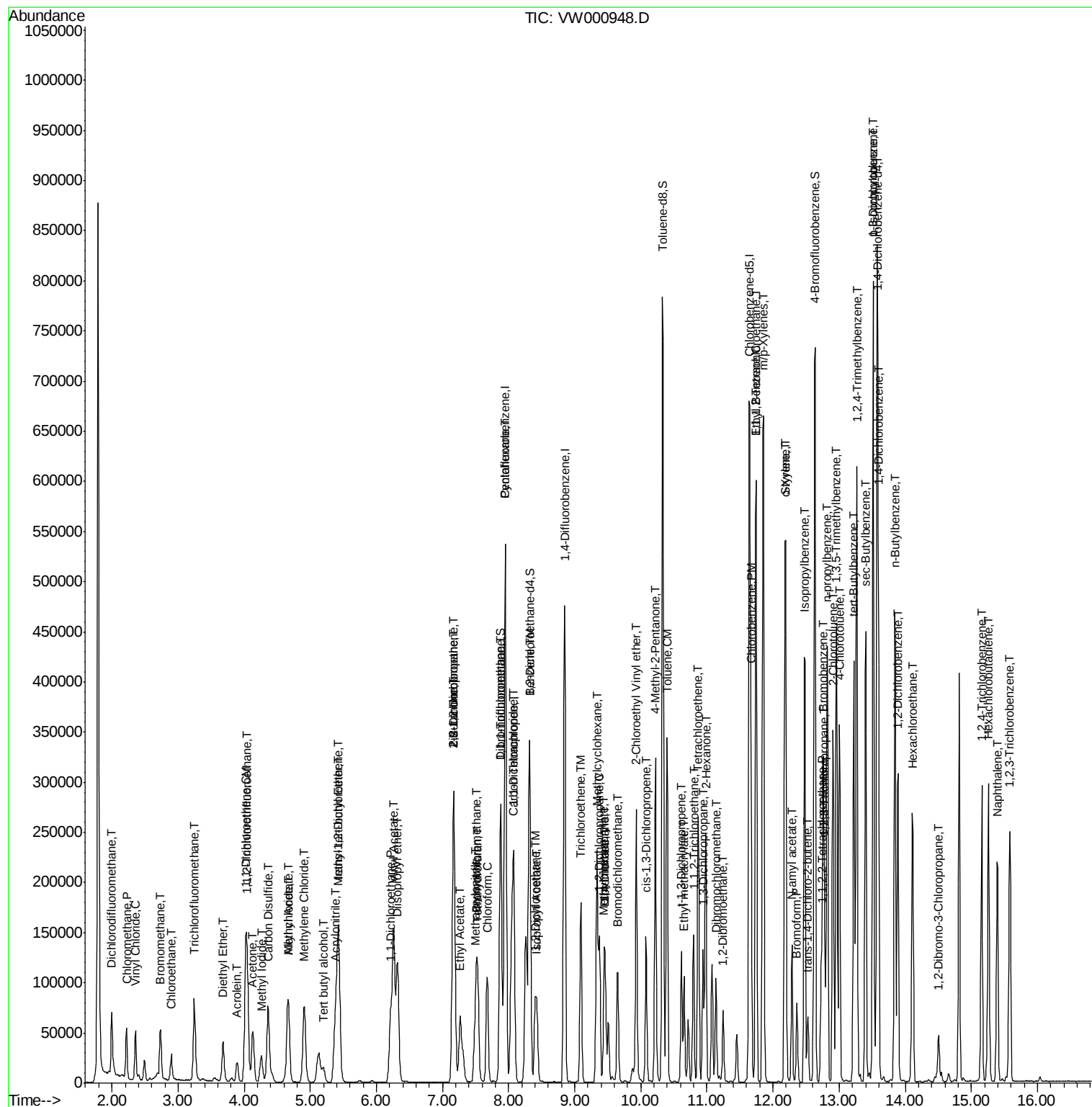
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.16 | 180  | 98301    | 21.186 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.26 | 225  | 59702    | 20.298 | ug/l  | 99       |
| 95) Naphthalene            | 15.39 | 128  | 190734   | 19.475 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.58 | 180  | 91517    | 21.441 | ug/l  | 100      |

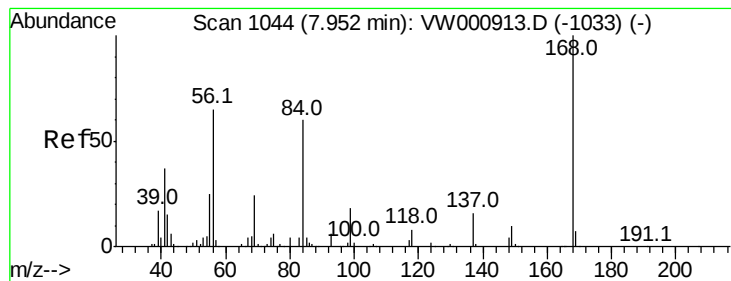
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Data Path : W:\HPCHEM1\MSVOA W\DATA\VW012418\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

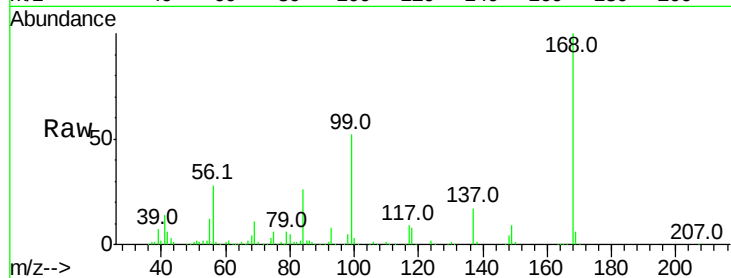
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 297283

Ion Ratio Lower Upper

168 100

99 52.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

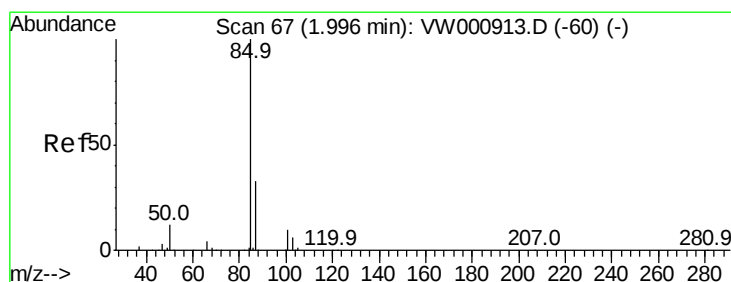
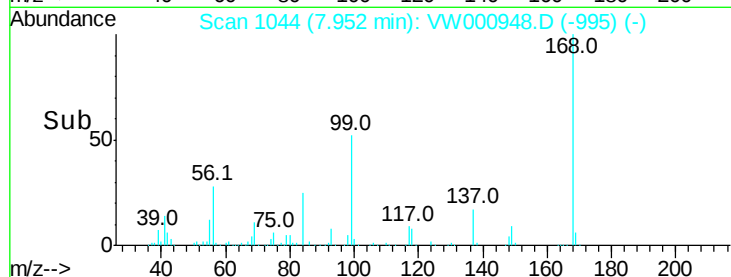
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.968 ug/l

RT: 2.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VW000948.D

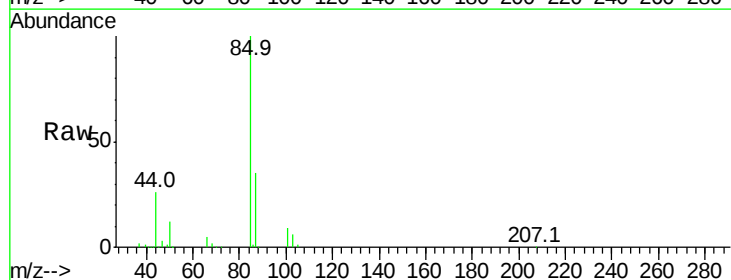
Acq: 24 Jan 2018 15:16

Tgt Ion: 85 Resp: 54370

Ion Ratio Lower Upper

85 100

87 34.6 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

40000

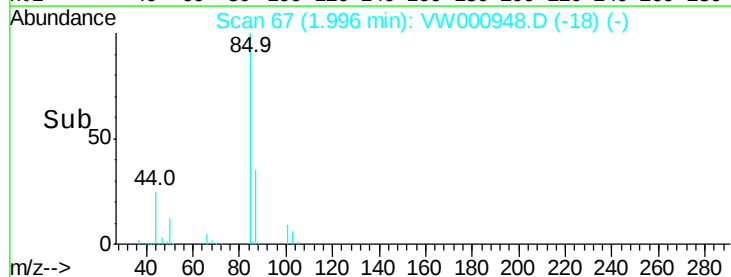
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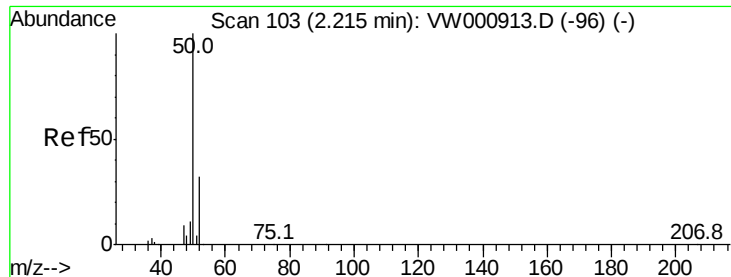
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10000

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Time-->





#3

Chloromethane

Concen: 19.983 ug/l

RT: 2.22 min Scan# 104

Delta R.T. 0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

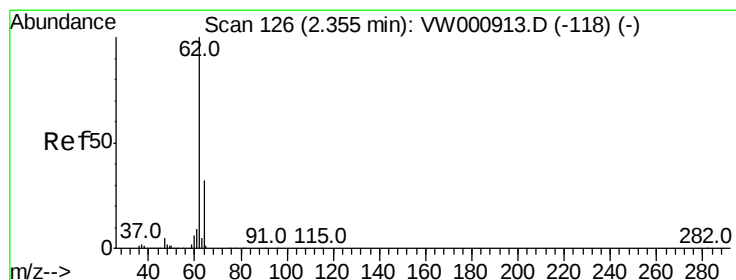
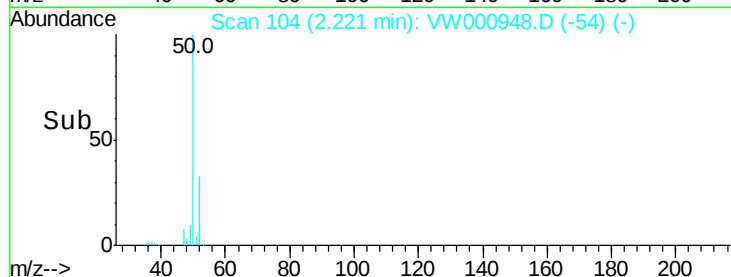
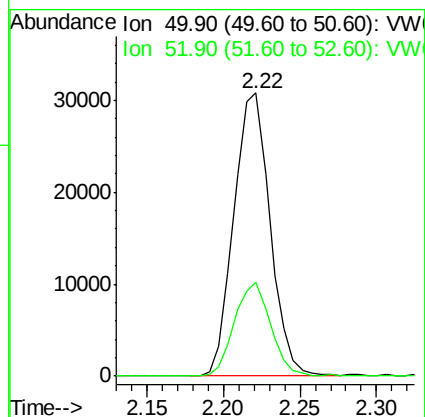
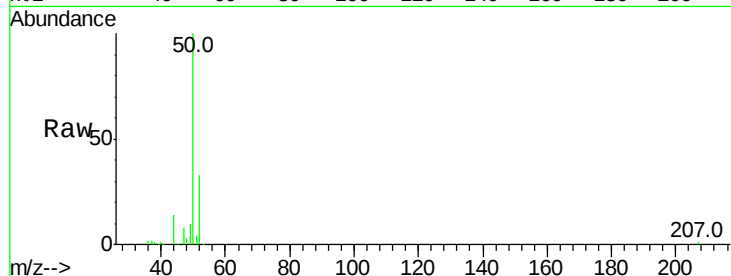
ClientSampled :

Tot Ion: 50 Resp: 50622

Ion Ratio Lower Upper

50 100

52 33.0 25.5 38.3



#4

Vinyl Chloride

Concen: 19.224 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW000948.D

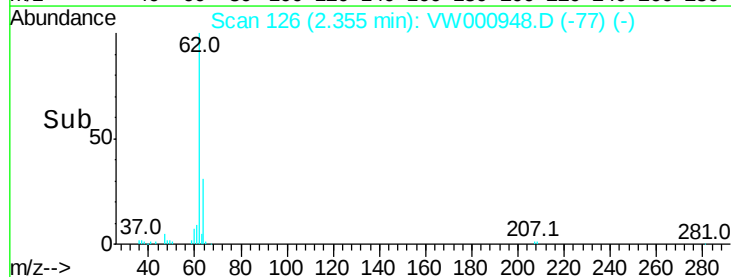
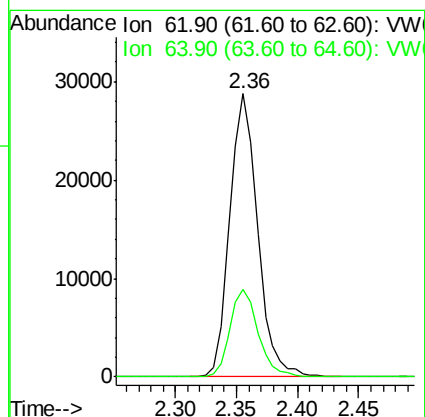
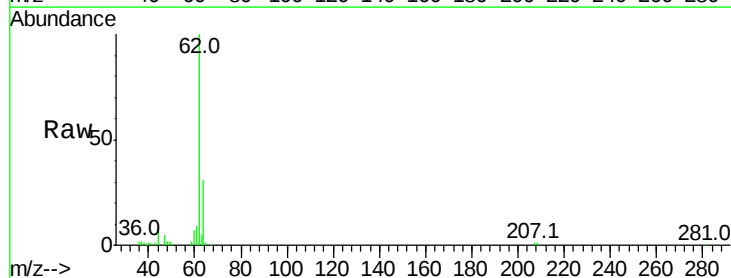
Acq: 24 Jan 2018 15:16

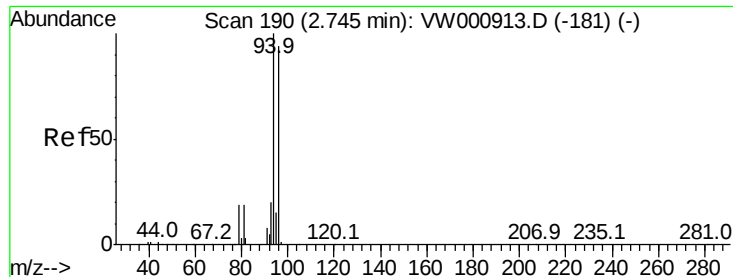
Tgt Ion: 62 Resp: 45296

Ion Ratio Lower Upper

62 100

64 30.9 25.6 38.4





#5

Bromomethane

Concen: 18.487 ug/l

RT: 2.73 min Scan# 188

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

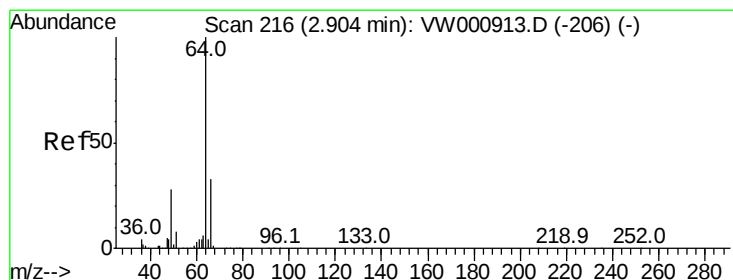
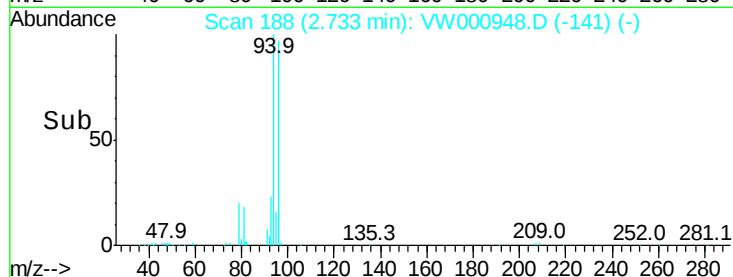
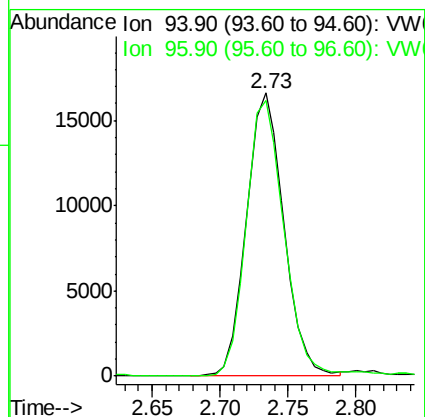
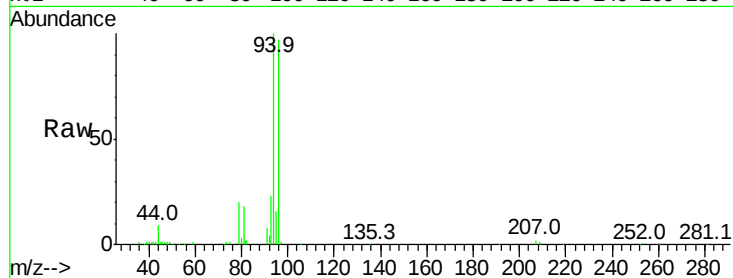
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 94 Resp: 32056

Ion Ratio Lower Upper

94 100

96 97.1 75.5 113.3



#6

Chloroethane

Concen: 18.685 ug/l

RT: 2.90 min Scan# 215

Delta R.T. -0.01 min

Lab File: VW000948.D

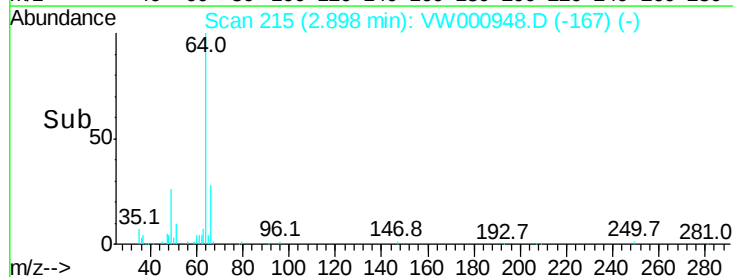
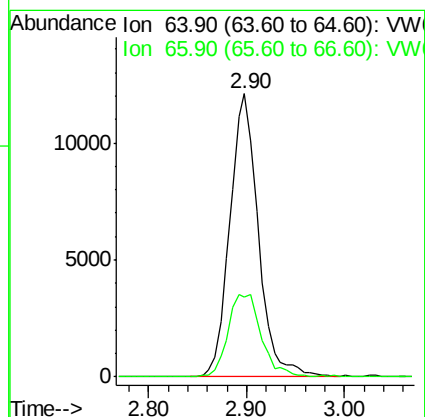
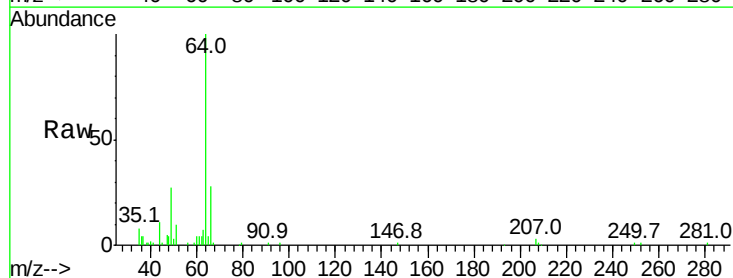
Acq: 24 Jan 2018 15:16

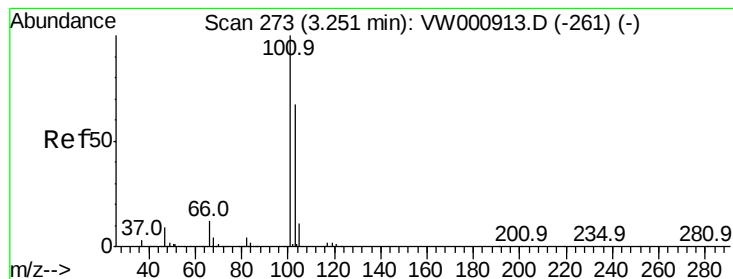
Tgt Ion: 64 Resp: 24464

Ion Ratio Lower Upper

64 100

66 28.1 26.1 39.1



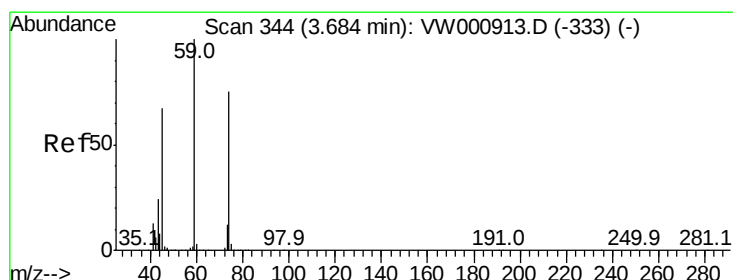
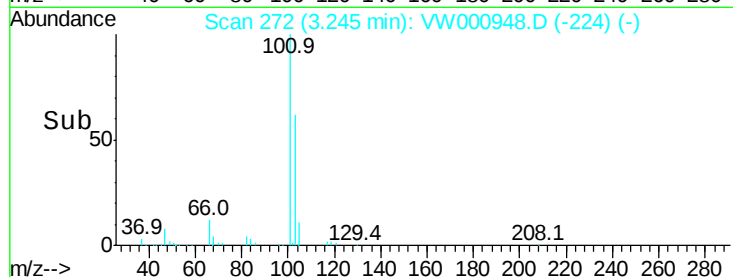
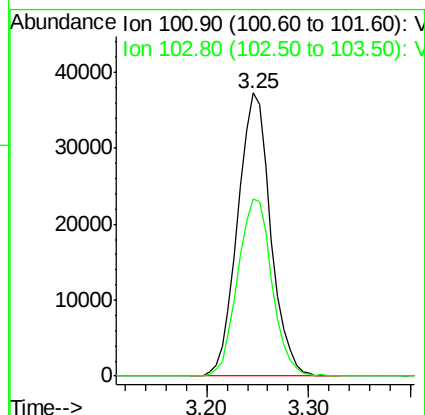
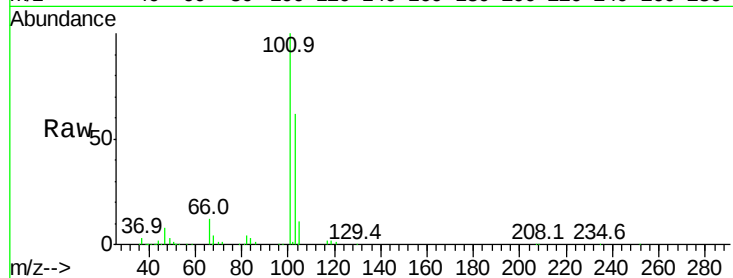


#7

Trichlorofluoromethane  
Concen: 19.283 ug/l  
RT: 3.25 min Scan# 272  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampleId :

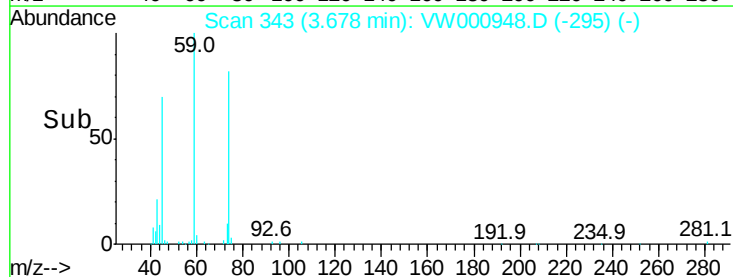
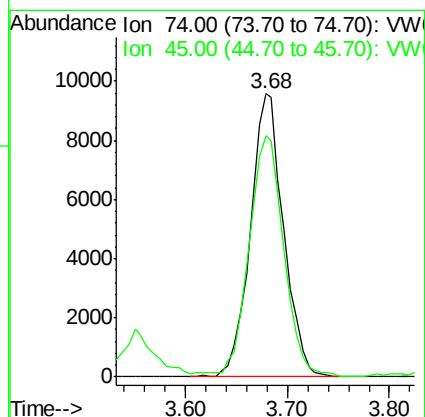
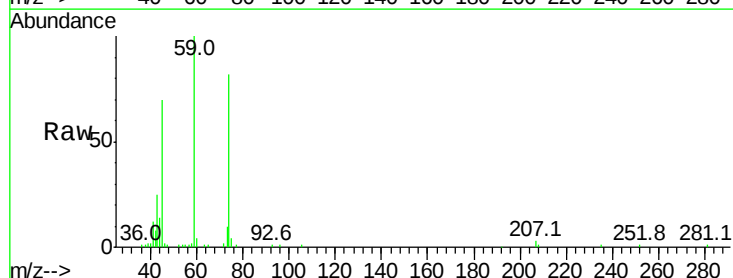
Tot Ion:101 Resp: 83664  
Ion Ratio Lower Upper  
101 100  
103 62.4 53.4 80.0

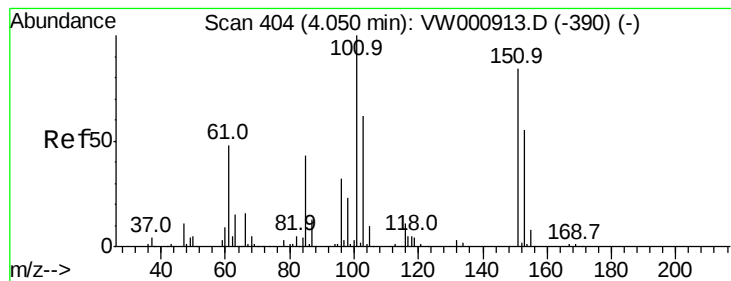


#8

Diethyl Ether  
Concen: 19.886 ug/l  
RT: 3.68 min Scan# 343  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 74 Resp: 21611  
Ion Ratio Lower Upper  
74 100  
45 89.6 44.7 134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.152 ug/l

RT: 4.04 min Scan# 403

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampled :

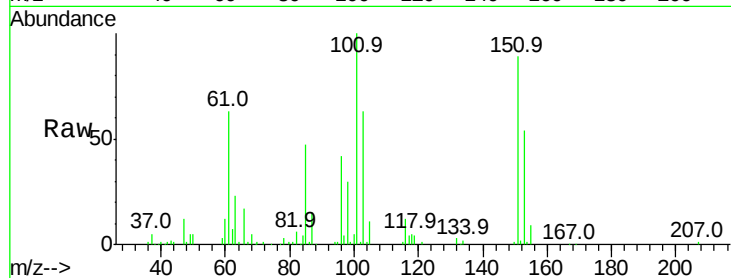
Tot Ion:101 Resp: 59286

Ion Ratio Lower Upper

101 100

85 43.6 35.3 52.9

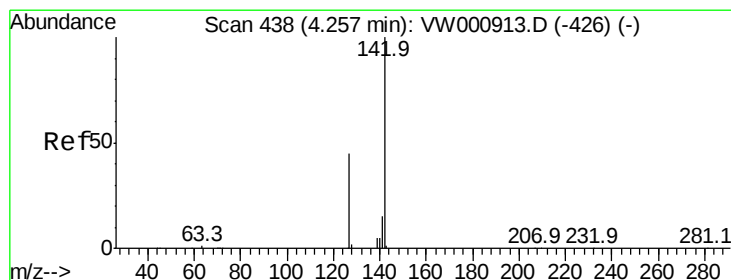
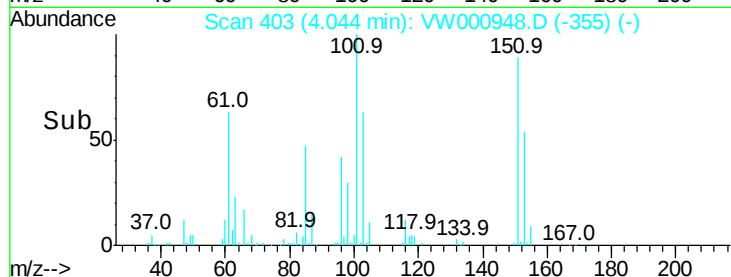
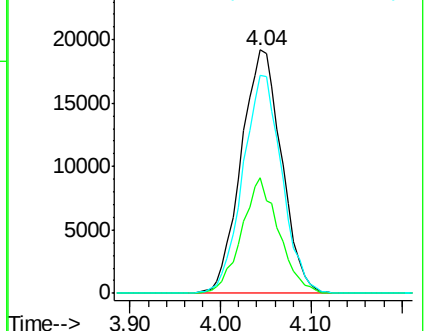
151 86.6 69.9 104.9



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: 18.641 ug/l

RT: 4.26 min Scan# 438

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

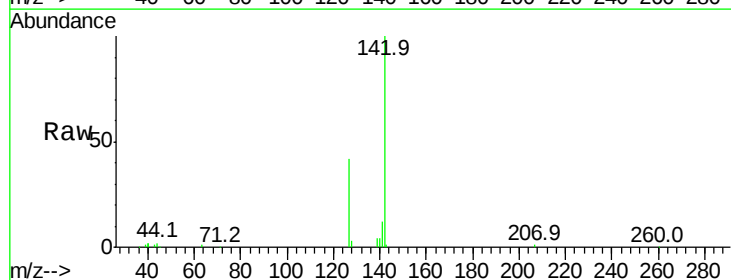
Tgt Ion:142 Resp: 45363

Ion Ratio Lower Upper

142 100

127 45.1 35.5 53.3

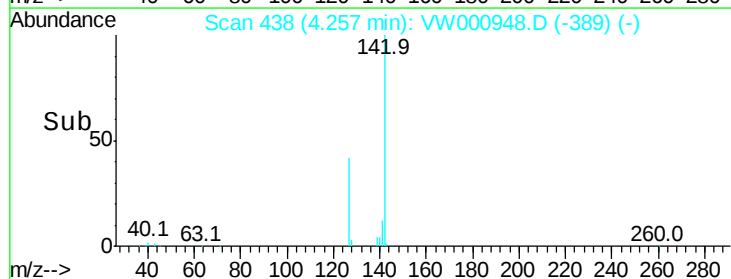
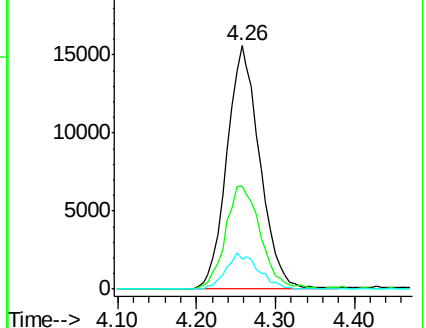
141 14.5 11.7 17.5

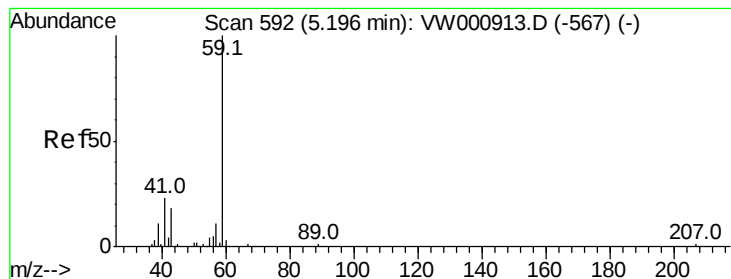


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 73.187 ug/l

RT: 5.20 min Scan# 592

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

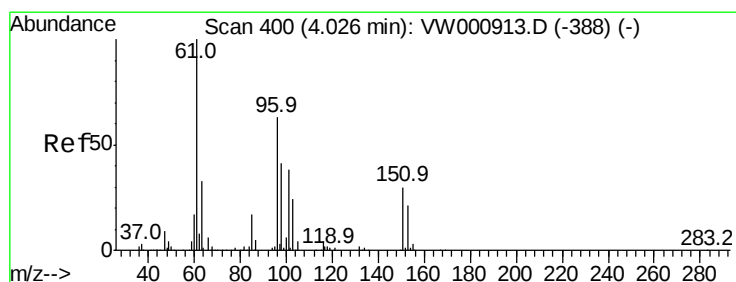
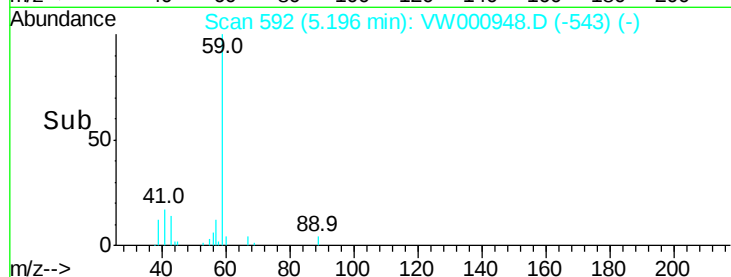
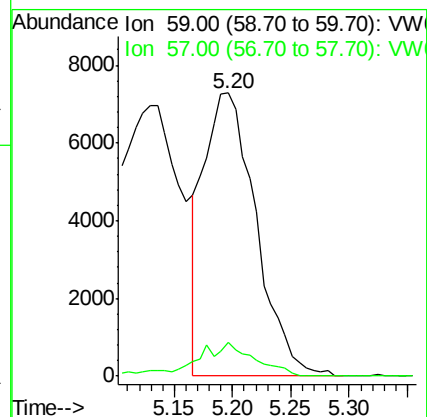
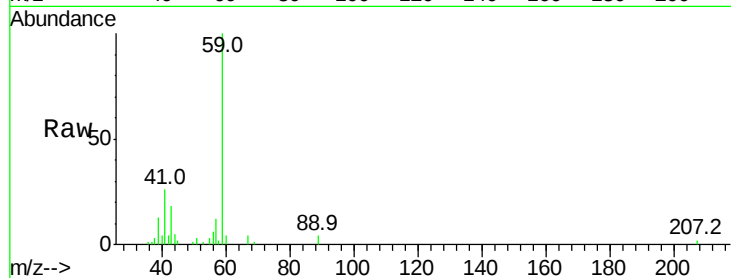
ClientSampled :

Tot Ion: 59 Resp: 22615

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



#12

1,1-Dichloroethene

Concen: 20.853 ug/l

RT: 4.03 min Scan# 400

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

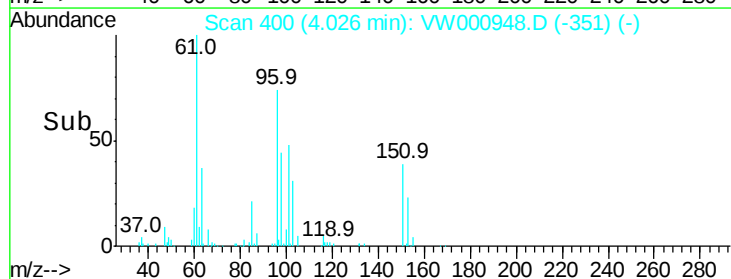
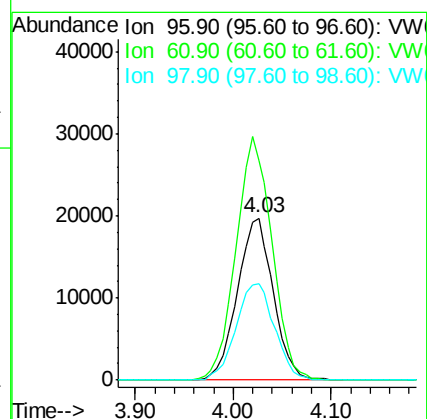
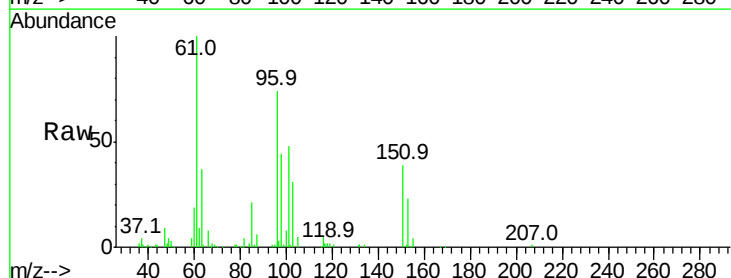
Tgt Ion: 96 Resp: 50236

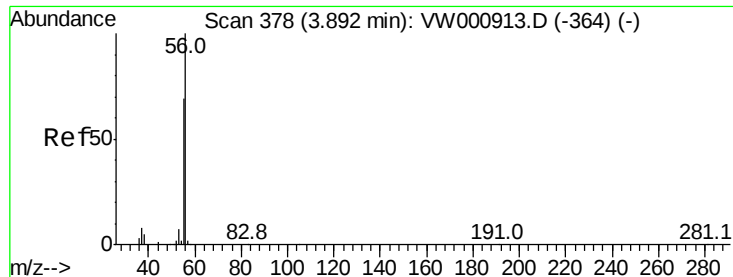
Ion Ratio Lower Upper

96 100

61 134.9 126.7 190.1

98 59.8 52.1 78.1





#13

Acrolein

Concen: 73.269 ug/l

RT: 3.90 min Scan# 379

Delta R.T. 0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

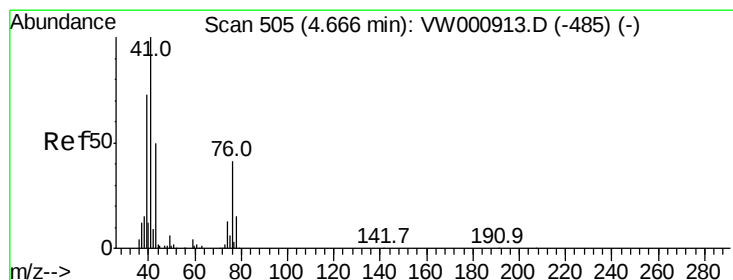
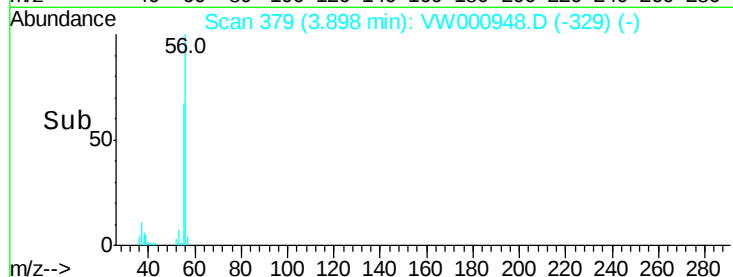
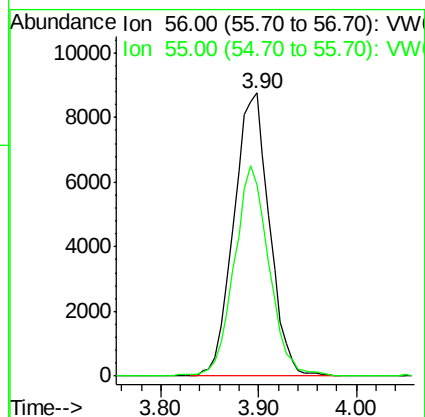
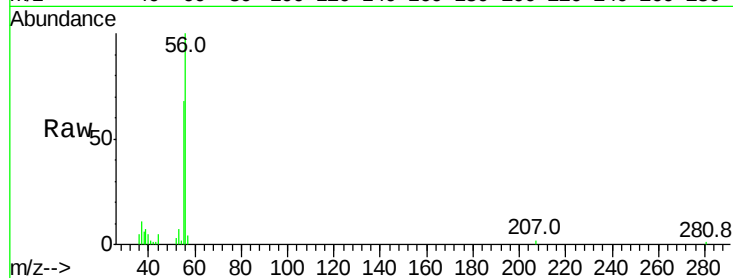
ClientSampleId :

Tot Ion: 56 Resp: 22105

Ion Ratio Lower Upper

56 100

55 72.7 55.4 83.0



#14

Allyl chloride

Concen: 19.406 ug/l

RT: 4.67 min Scan# 505

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

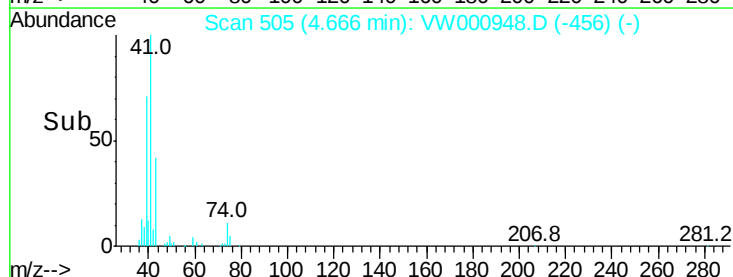
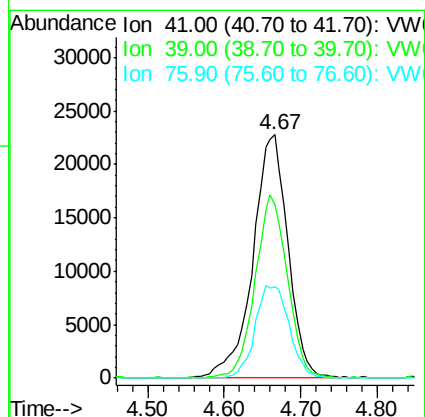
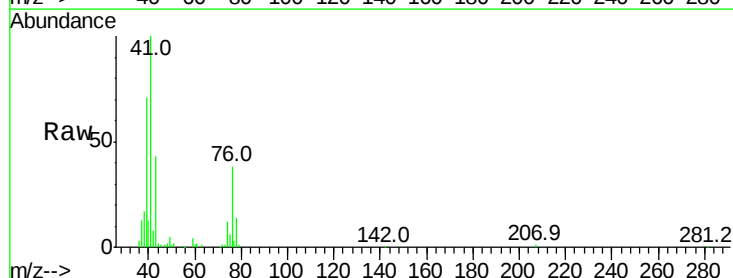
Tgt Ion: 41 Resp: 72846

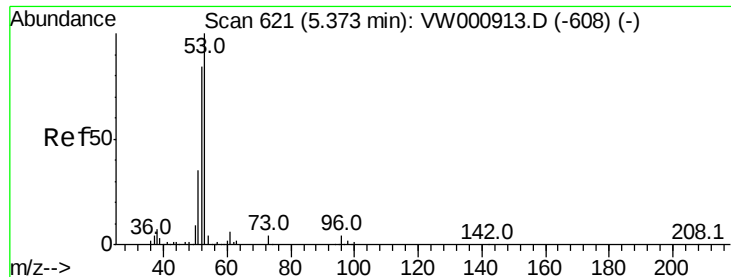
Ion Ratio Lower Upper

41 100

39 68.5 55.3 82.9

76 37.0 29.9 44.9





#15

Acrylonitrile

Concen: 87.011 ug/l

RT: 5.37 min Scan# 621

Delta R.T. 0.00 min

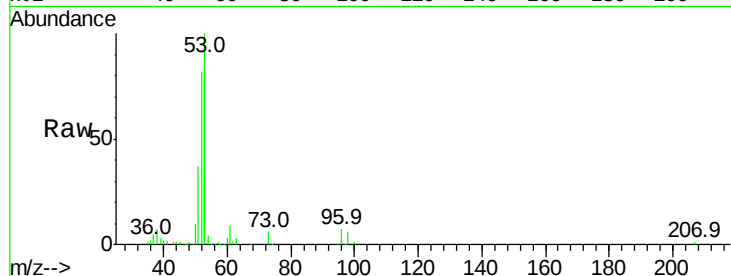
Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 53 Resp: 73863

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 82.9  | 66.6  | 99.8  |
| 51  | 37.4  | 29.4  | 44.0  |

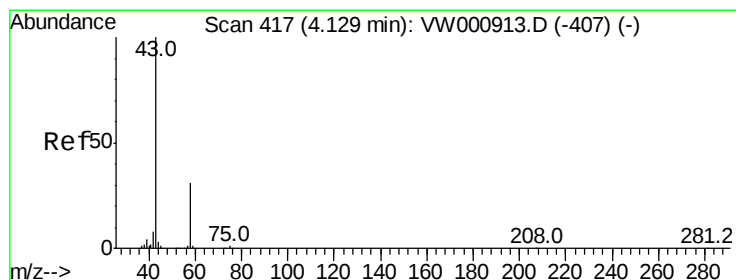
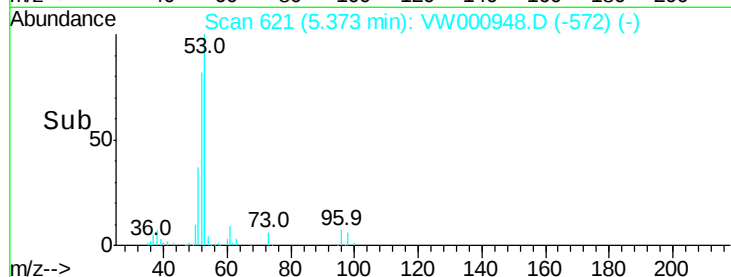
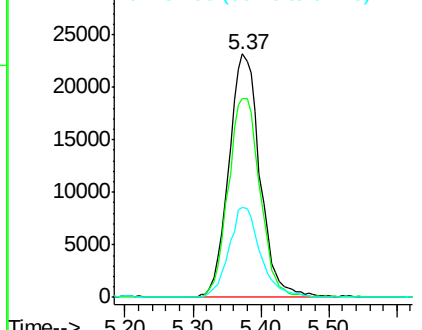


Abundance

Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 80.199 ug/l

RT: 4.13 min Scan# 417

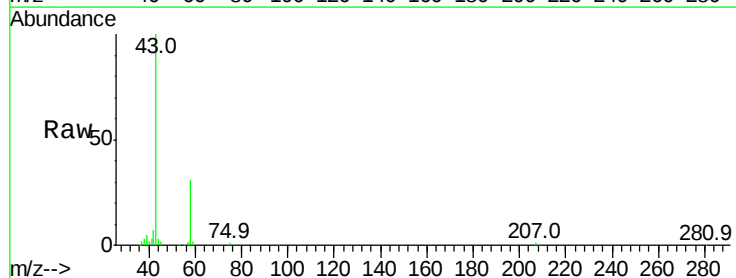
Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Tgt Ion: 43 Resp: 82571

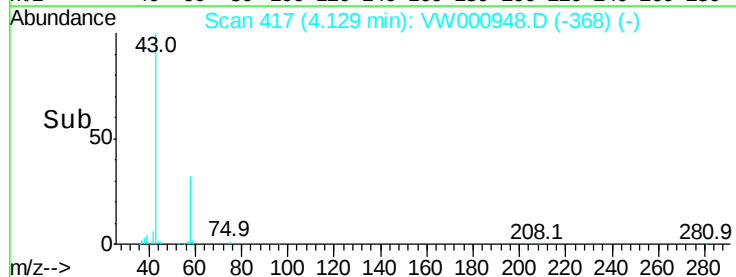
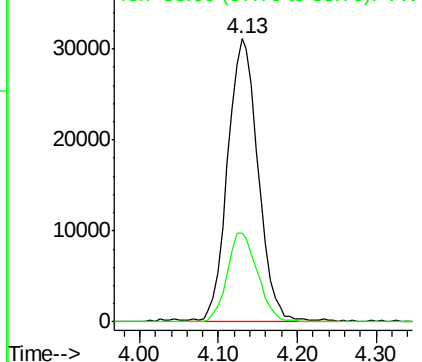
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 31.5  | 24.9  | 37.3  |

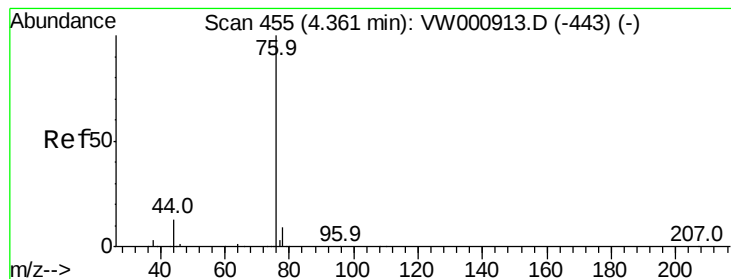


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 19.500 ug/l

RT: 4.36 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

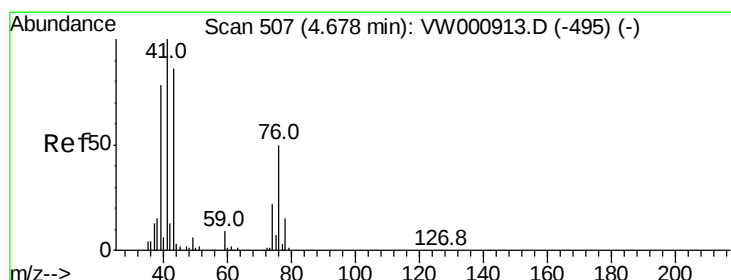
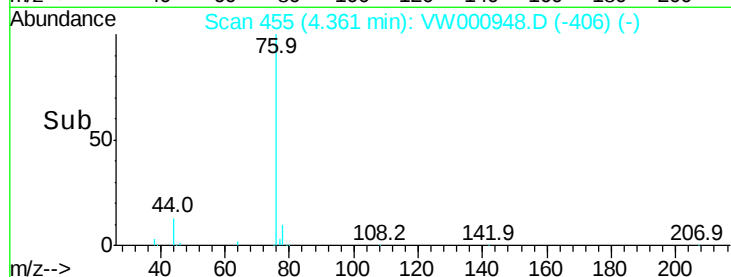
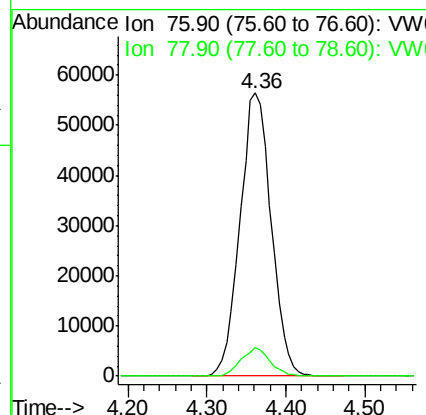
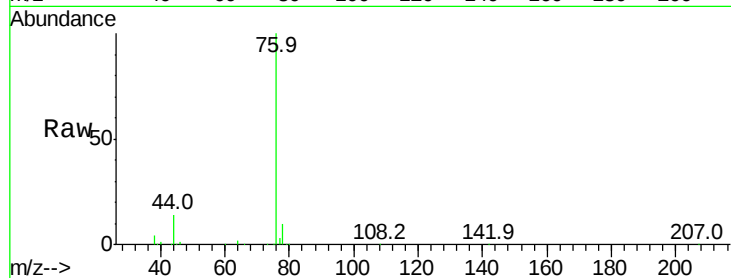
ClientSampleId :

Tot Ion: 76 Resp: 155153

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.2



#18

Methyl Acetate

Concen: 15.955 ug/l

RT: 4.67 min Scan# 506

Delta R.T. -0.01 min

Lab File: VW000948.D

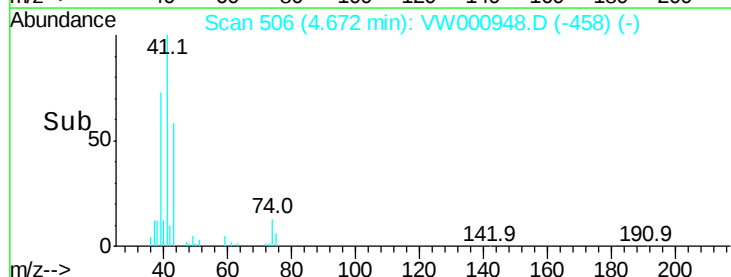
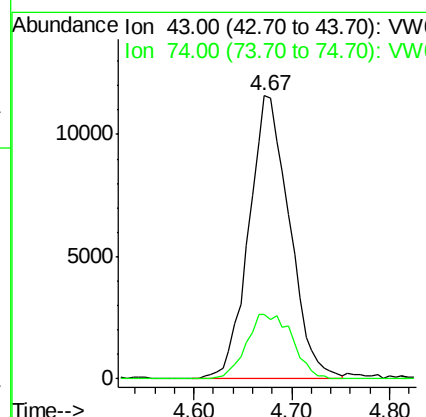
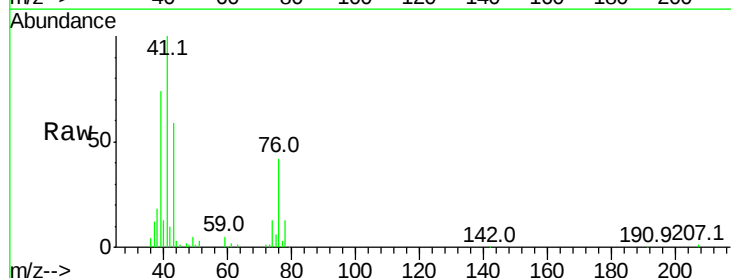
Acq: 24 Jan 2018 15:16

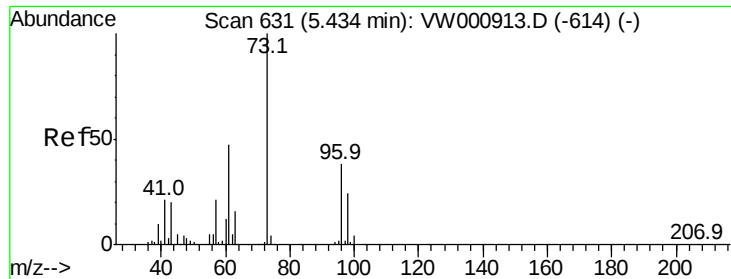
Tgt Ion: 43 Resp: 33440

Ion Ratio Lower Upper

43 100

74 25.7 20.5 30.7

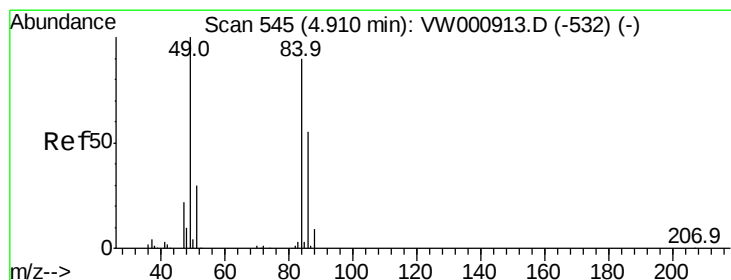
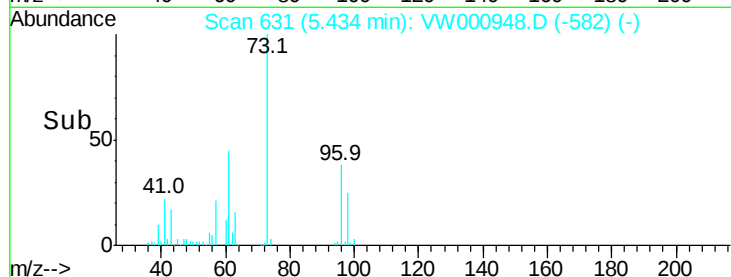
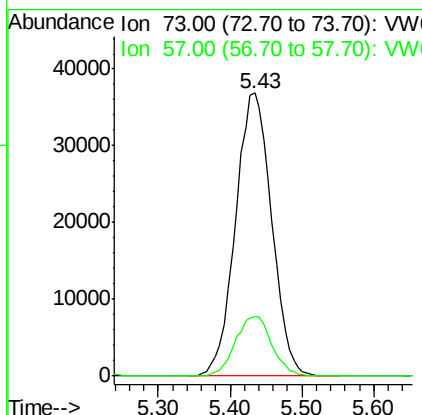
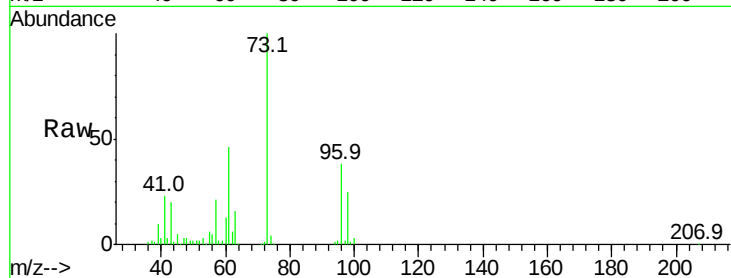




#19  
Methvl tert-butvl Ether  
Concen: 20.784 ug/l  
RT: 5.43 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

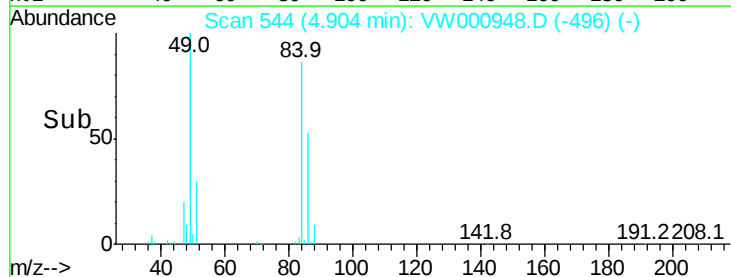
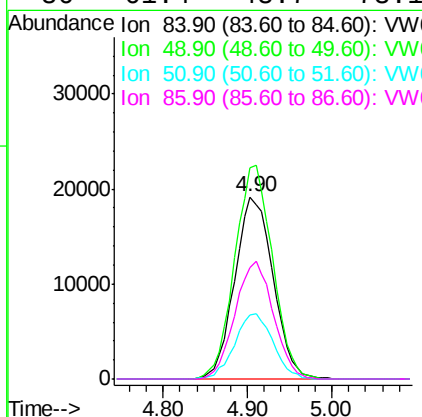
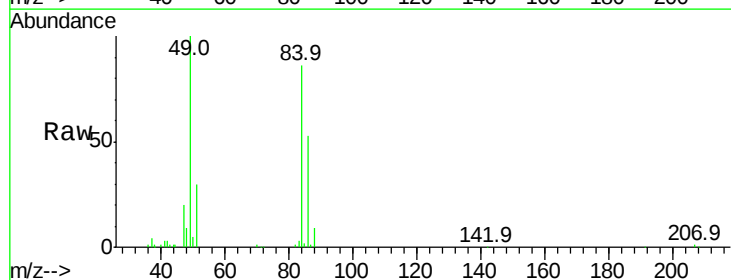
Instrument :  
MSVOA\_W  
ClientSampleId :

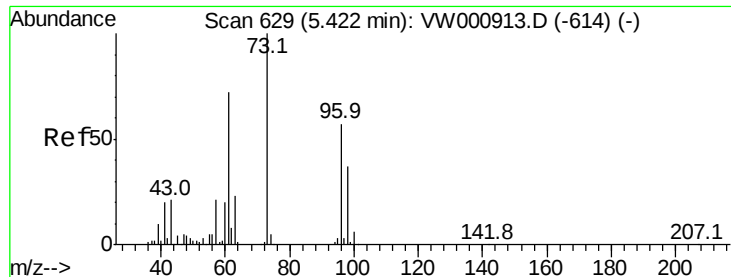
Tot Ion: 73 Resp: 128626  
Ion Ratio Lower Upper  
73 100  
57 21.0 16.7 25.1



#20  
Methylene Chloride  
Concen: 21.311 ug/l  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 84 Resp: 59112  
Ion Ratio Lower Upper  
84 100  
49 116.3 89.0 133.4  
51 35.1 26.7 40.1  
86 61.4 48.7 73.1





#21

trans-1,2-Dichloroethene

Concen: 20.281 ug/l

RT: 5.42 min Scan# 628

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

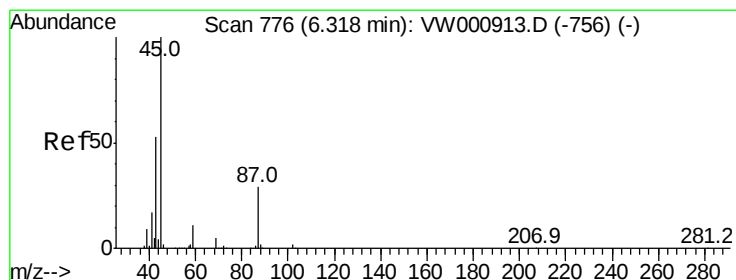
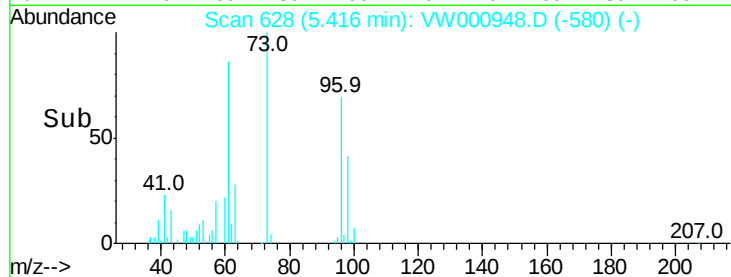
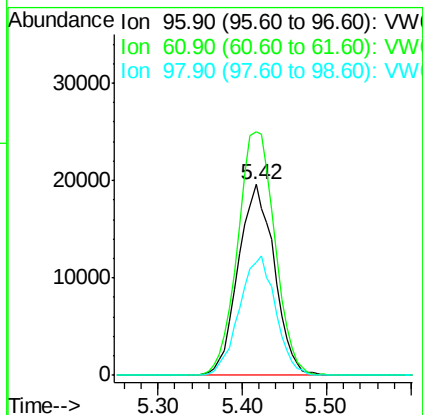
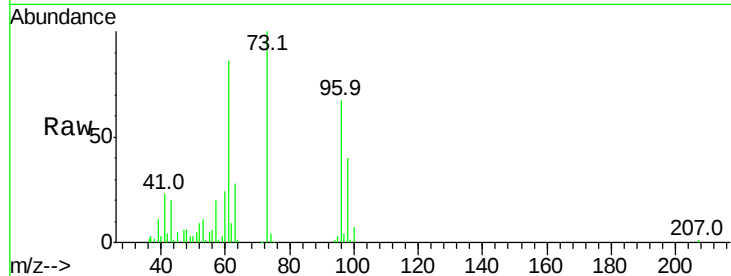
Tot Ion: 96 Resp: 56768

Ion Ratio Lower Upper

96 100

61 127.6 101.1 151.7

98 59.1 52.2 78.2



#22

Diisopropyl ether

Concen: 22.038 ug/l

RT: 6.32 min Scan# 776

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Tgt Ion: 45 Resp: 148107

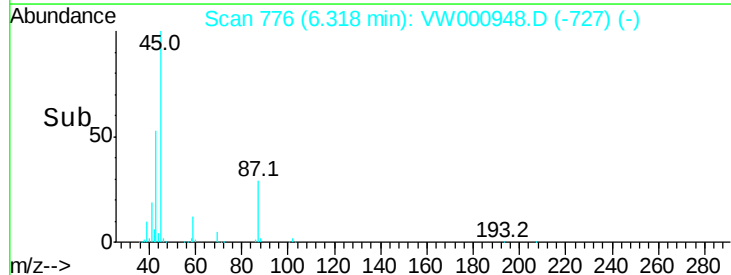
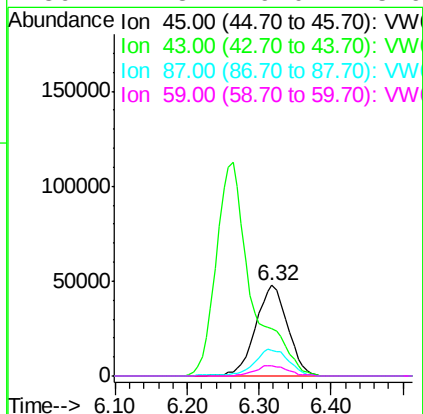
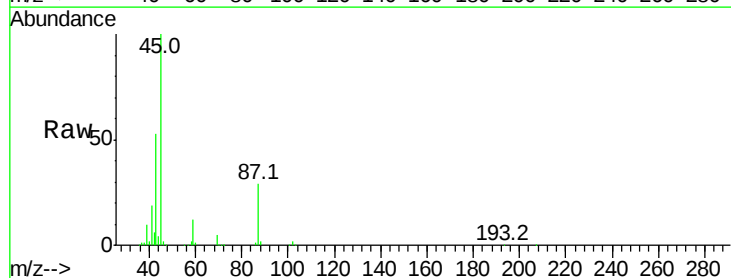
Ion Ratio Lower Upper

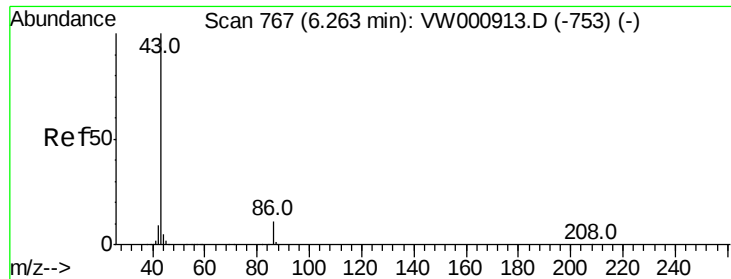
45 100

43 52.5 42.7 64.1

87 28.7 23.8 35.8

59 11.8 9.0 13.6





#23

Vinyl Acetate

Concen: 91.644 ug/l

RT: 6.26 min Scan# 767

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

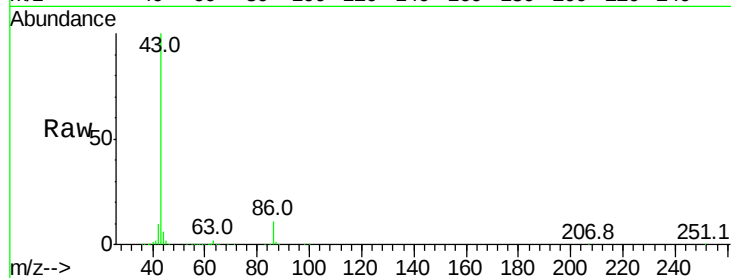
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 382685

Ion Ratio Lower Upper

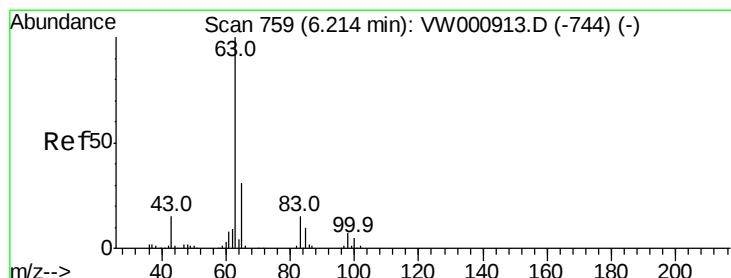
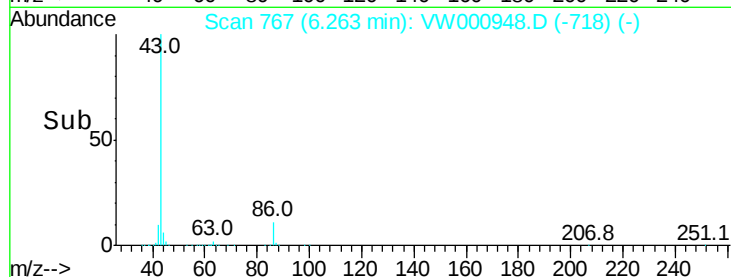
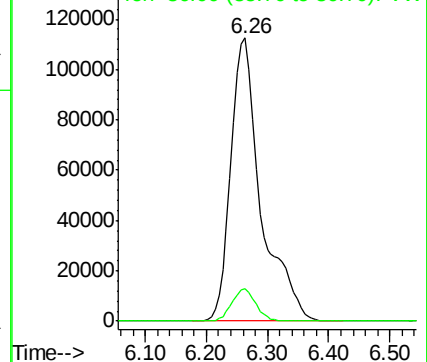
43 100

86 11.3 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 21.177 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

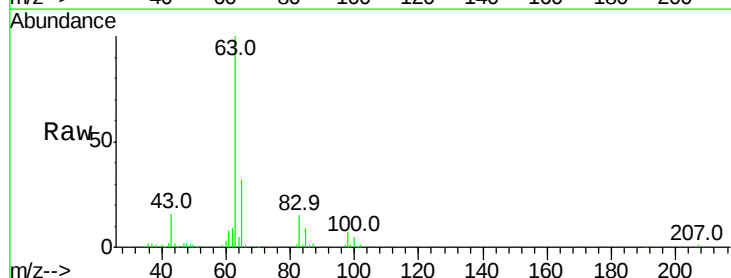
Tgt Ion: 63 Resp: 95261

Ion Ratio Lower Upper

63 100

98 6.9 3.6 10.8

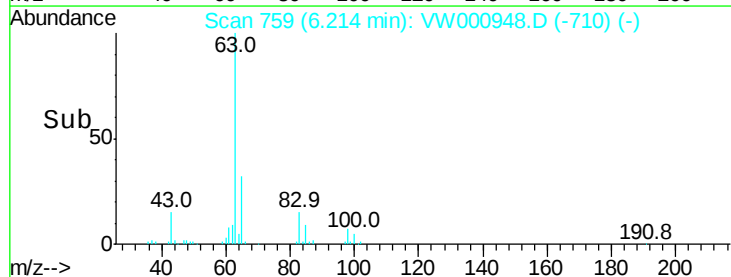
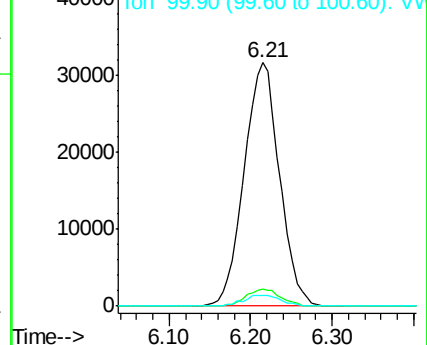
100 4.5 2.5 7.4

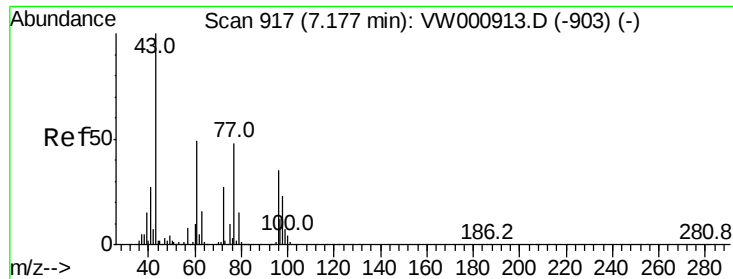


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 83.219 ug/l

RT: 7.18 min Scan# 917

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

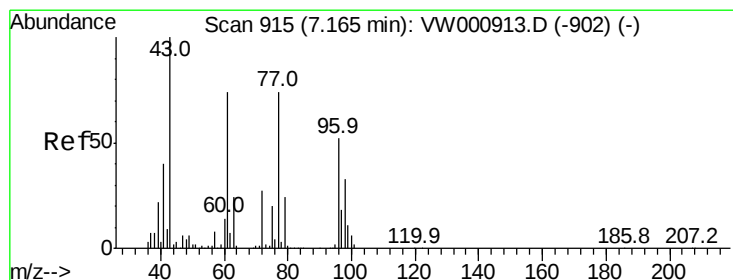
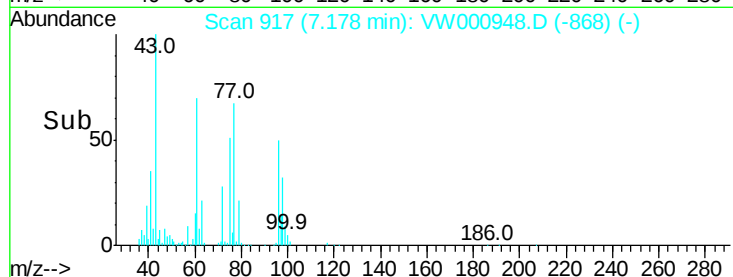
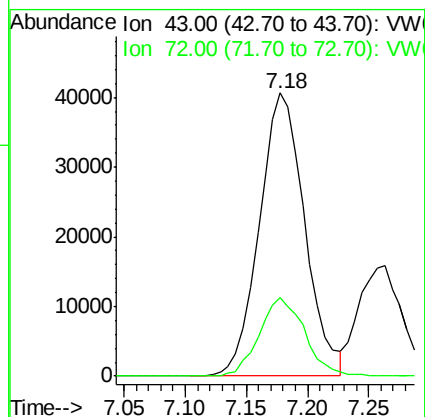
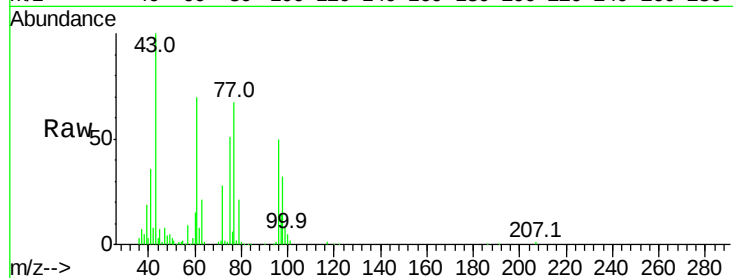
ClientSampled :

Tot Ion: 43 Resp: 104905

Ion Ratio Lower Upper

43 100

72 27.7 21.5 32.3



#26

2,2-Dichloropropane

Concen: 20.269 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW000948.D

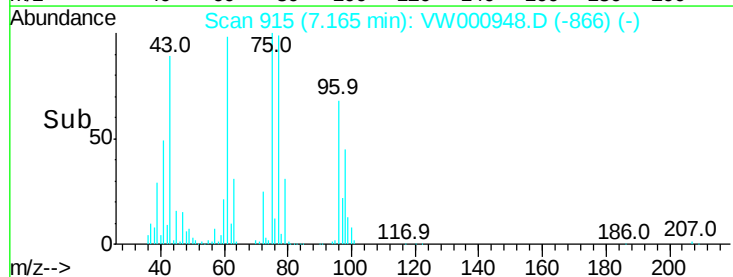
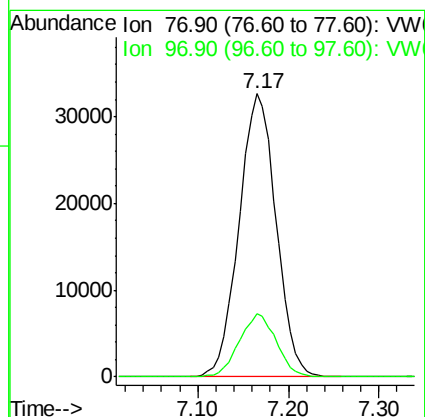
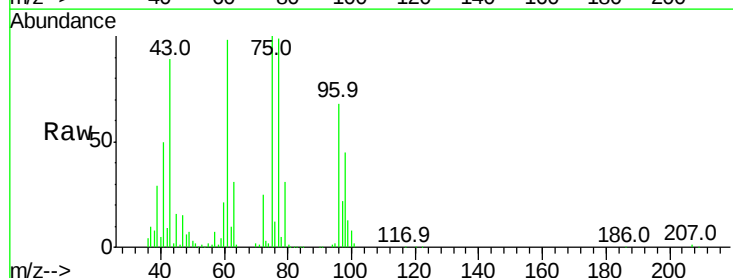
Acq: 24 Jan 2018 15:16

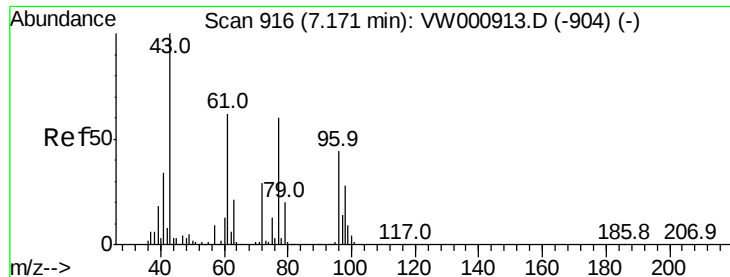
Tgt Ion: 77 Resp: 92297

Ion Ratio Lower Upper

77 100

97 22.2 11.8 35.3



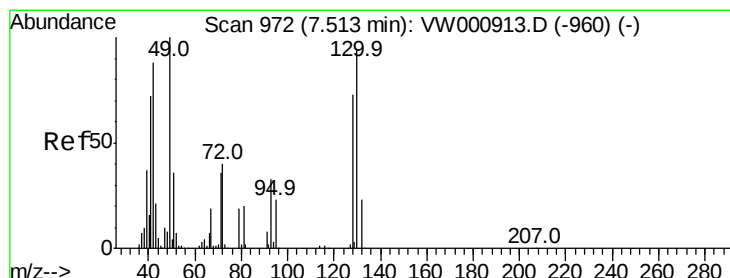
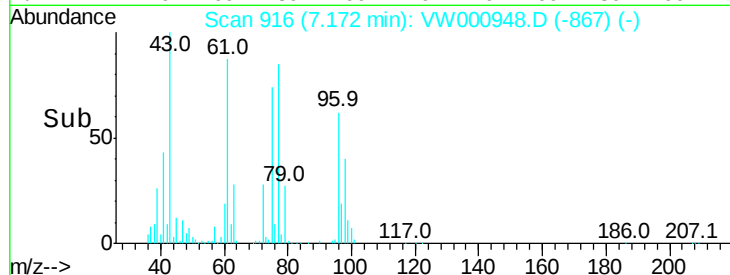
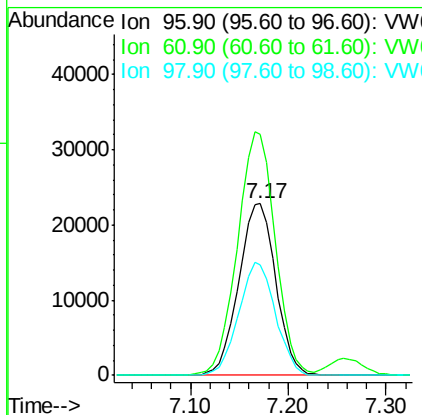
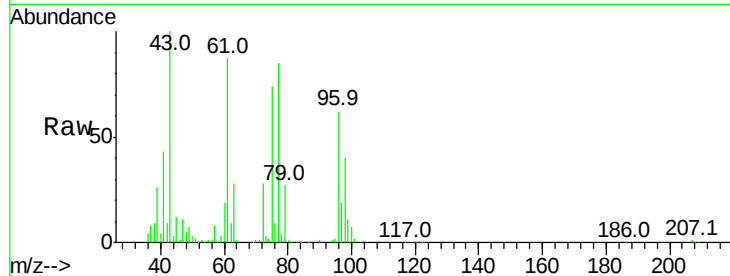


#27

cis-1,2-Dichloroethene  
Concen: 20.784 ug/l  
RT: 7.17 min Scan# 916  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

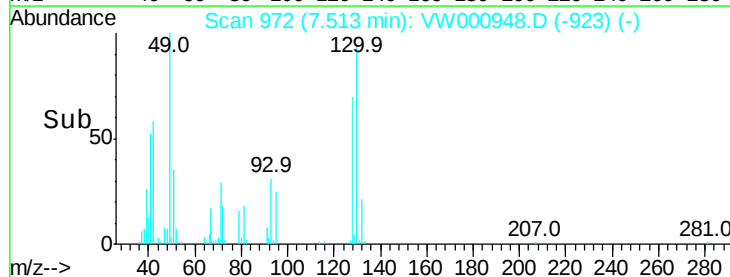
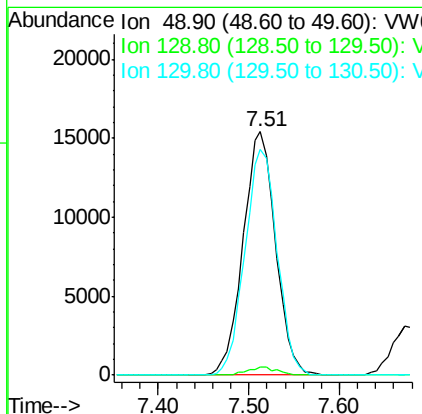
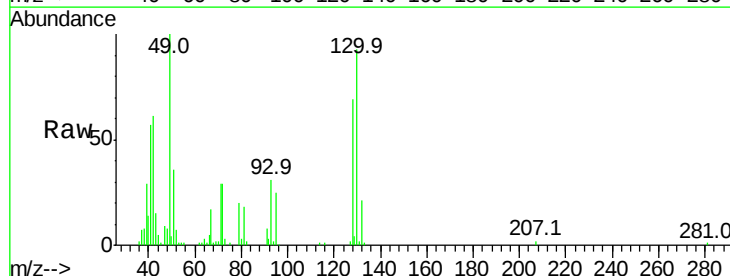
Tot Ion: 96 Resp: 60124  
Ion Ratio Lower Upper  
96 100  
61 144.3 0.0 279.8  
98 64.9 0.0 127.6

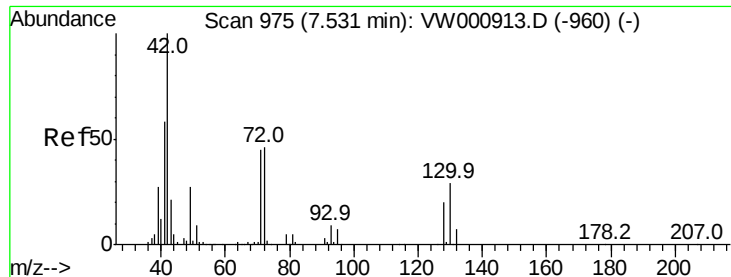


#28

Bromochloromethane  
Concen: 20.198 ug/l  
RT: 7.51 min Scan# 972  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 49 Resp: 38166  
Ion Ratio Lower Upper  
49 100  
129 2.8 0.0 2.8  
130 92.4 73.8 110.6

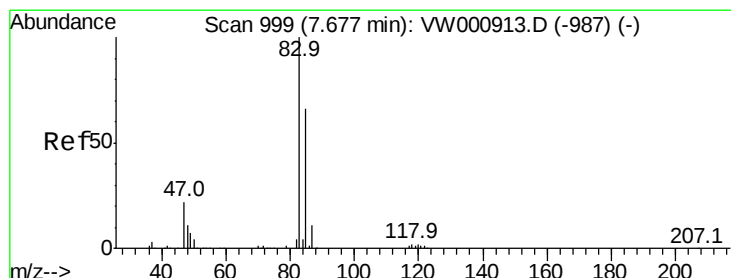
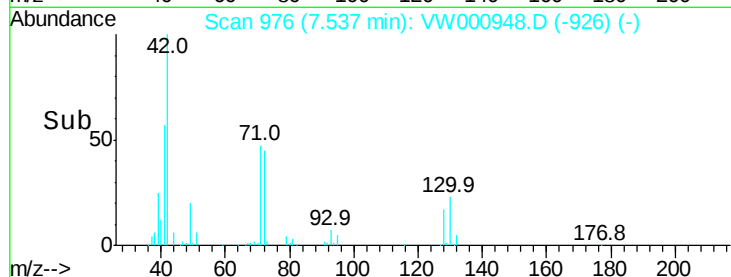
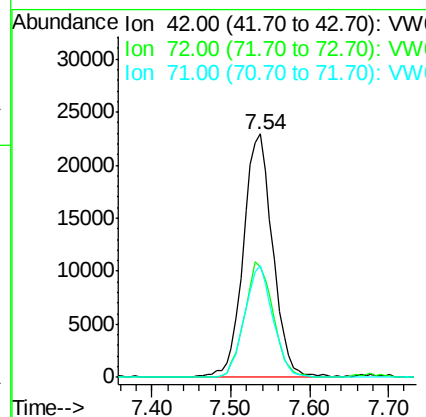
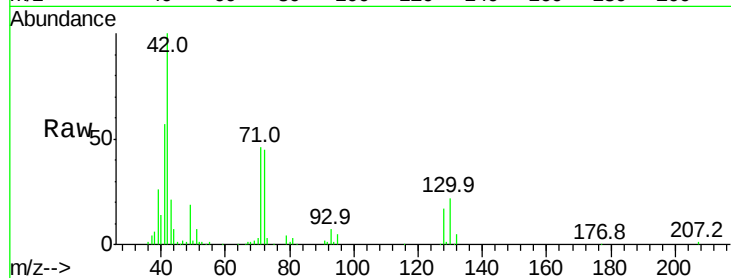




#29  
Tetrahydrofuran  
Concen: 85.998 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

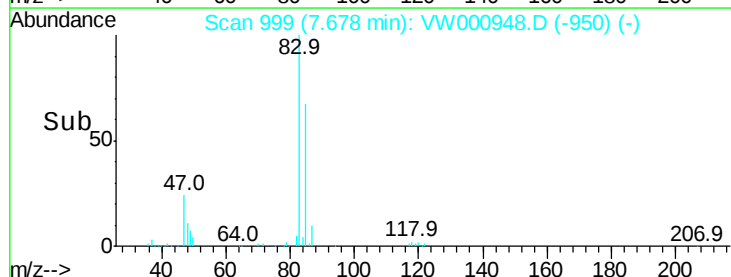
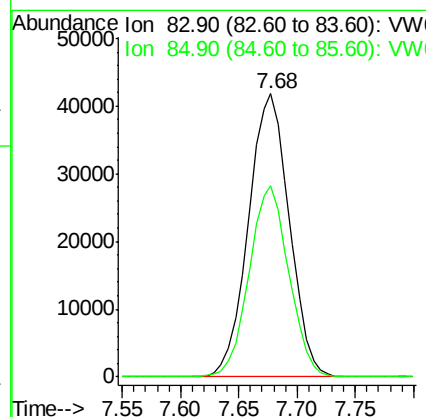
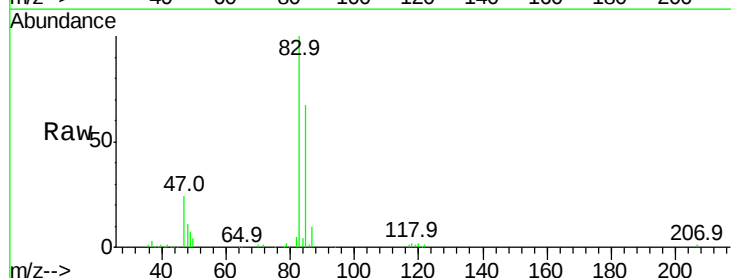
Instrument :  
MSVOA\_W  
ClientSampled :

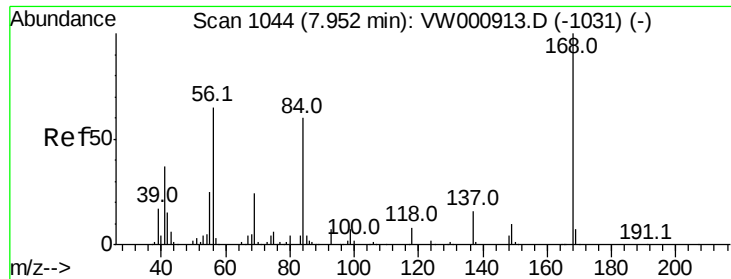
Tot Ion: 42 Resp: 59647  
Ion Ratio Lower Upper  
42 100  
72 46.0 37.1 55.7  
71 43.9 34.9 52.3



#30  
Chloroform  
Concen: 20.964 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 83 Resp: 101714  
Ion Ratio Lower Upper  
83 100  
85 67.4 52.5 78.7

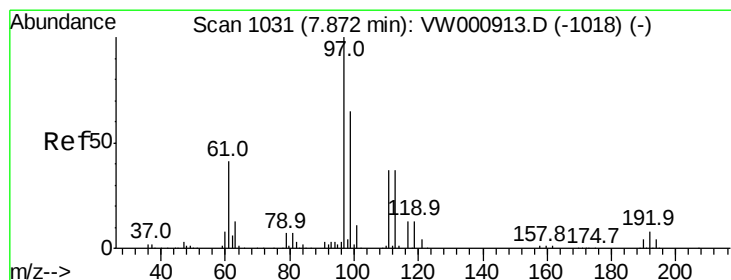
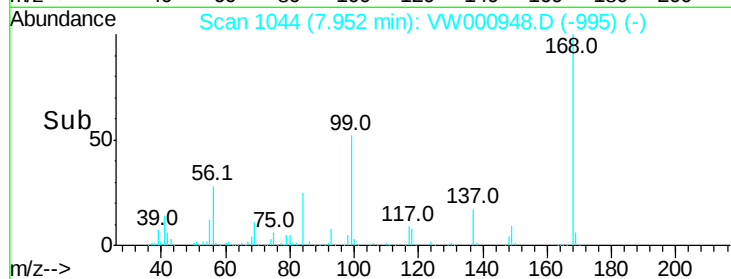
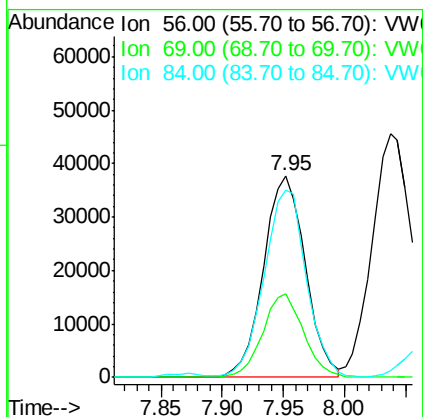
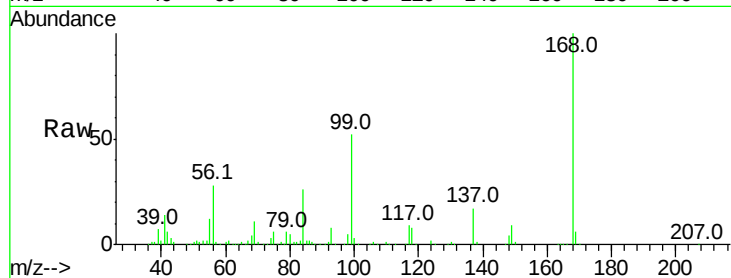




#31  
Cyclohexane  
Concen: 19.392 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

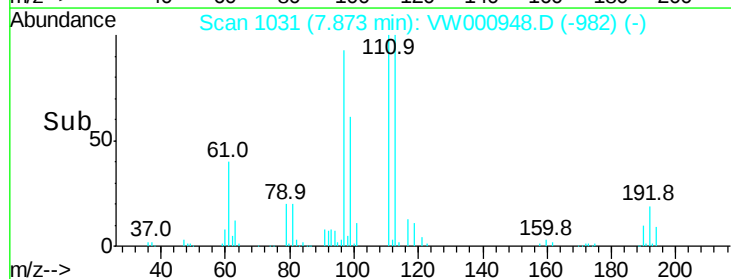
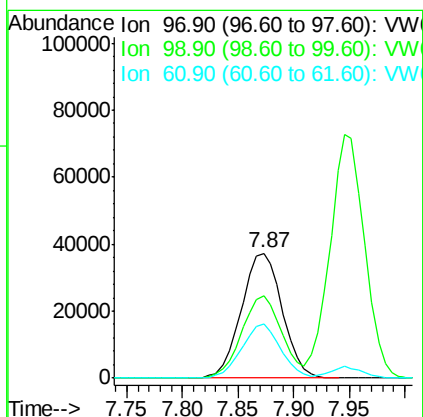
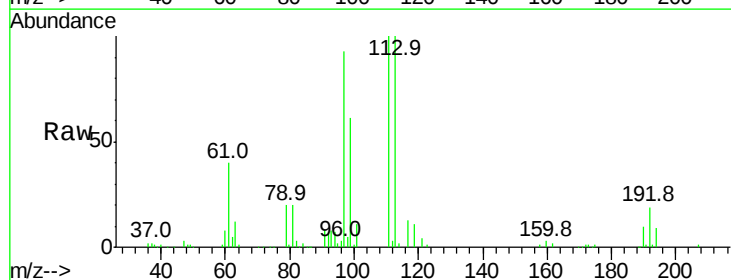
Instrument :  
MSVOA\_W  
ClientSampled :

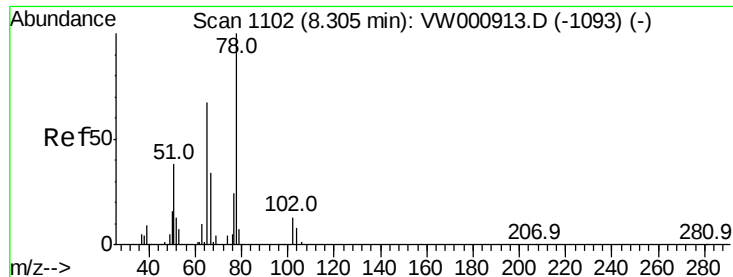
Tot Ion: 56 Resp: 90056  
Ion Ratio Lower Upper  
56 100  
69 41.1 29.2 43.8  
84 91.0 73.6 110.4



#32  
1,1,1-Trichloroethane  
Concen: 20.353 ug/l  
RT: 7.87 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 97 Resp: 95430  
Ion Ratio Lower Upper  
97 100  
99 65.0 52.6 78.8  
61 41.3 32.9 49.3





#33

1,2-Dichloroethane-d4

Concen: 51.856 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

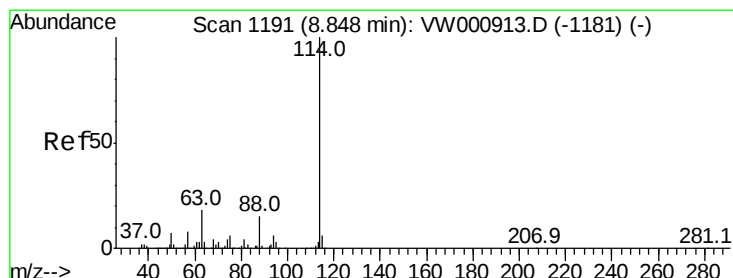
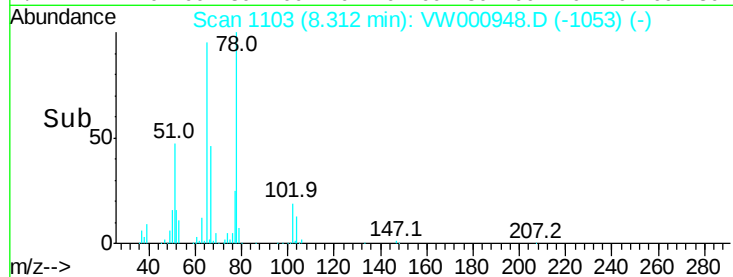
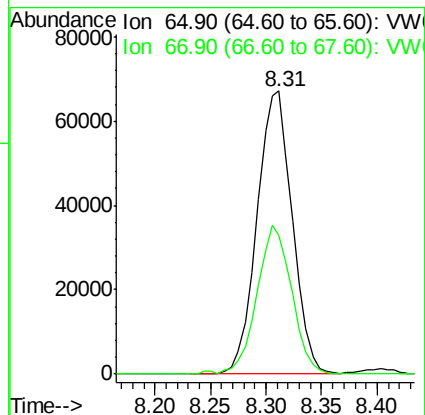
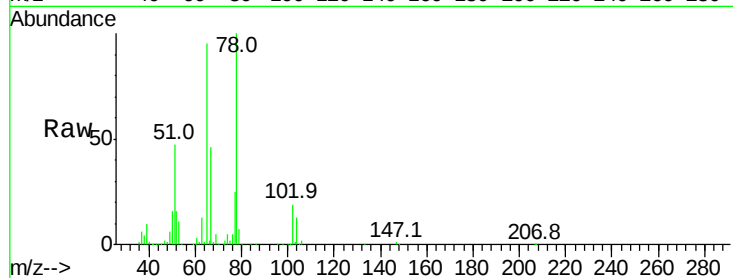
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 65 Resp: 147759

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

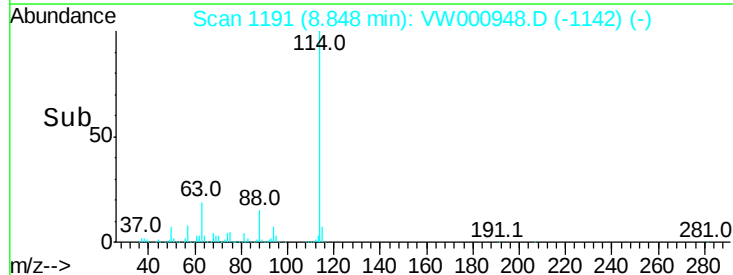
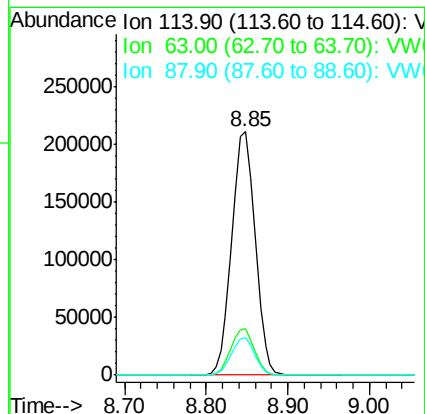
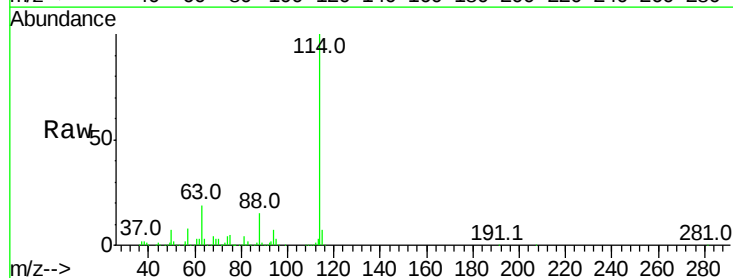
Tgt Ion: 114 Resp: 418149

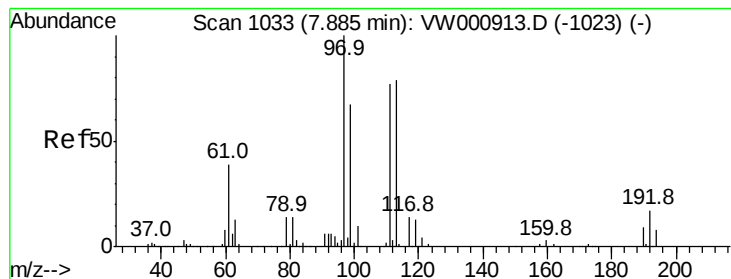
Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.8

88 15.2 0.0 29.8





#35

Dibromofluoromethane

Concen: 49.939 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampleId :

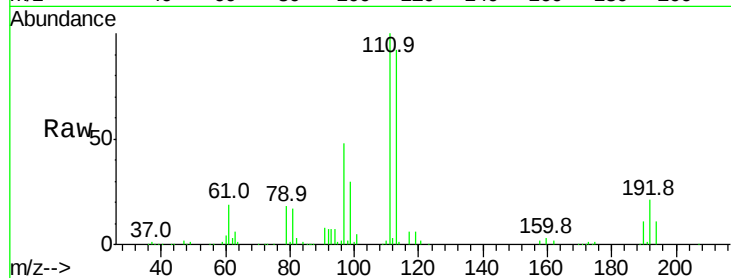
Tot Ion:113 Resp: 127925

Ion Ratio Lower Upper

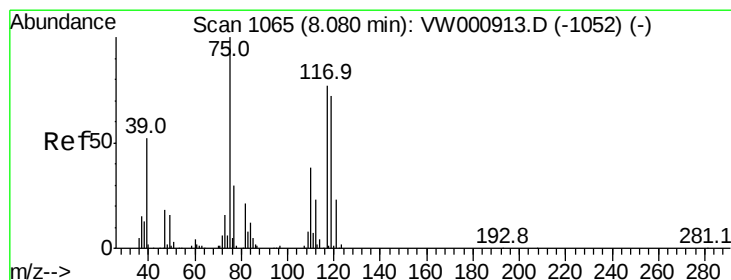
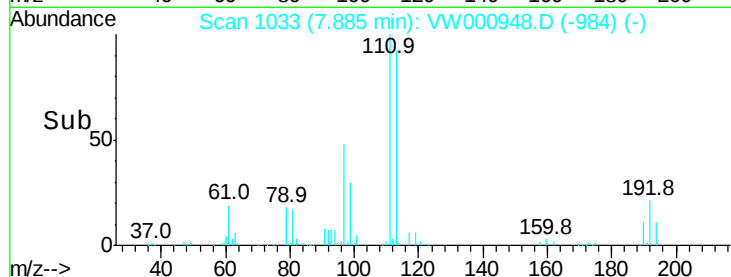
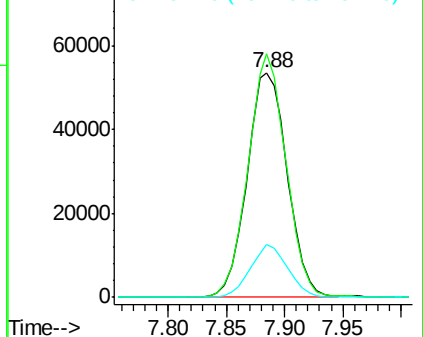
113 100

111 102.8 80.4 120.6

192 22.0 17.0 25.4



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



#36

1,1-Dichloropropene

Concen: 20.017 ug/l

RT: 8.08 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

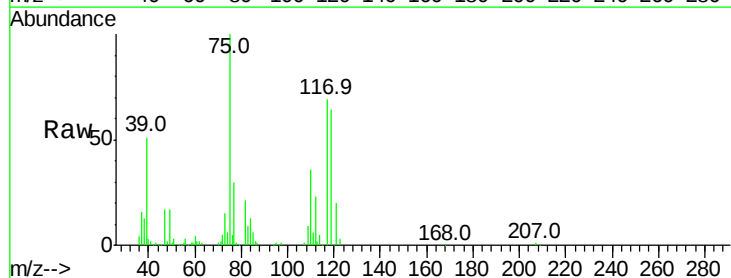
Tgt Ion: 75 Resp: 79862

Ion Ratio Lower Upper

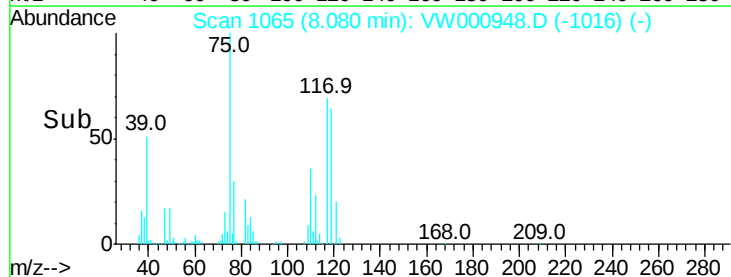
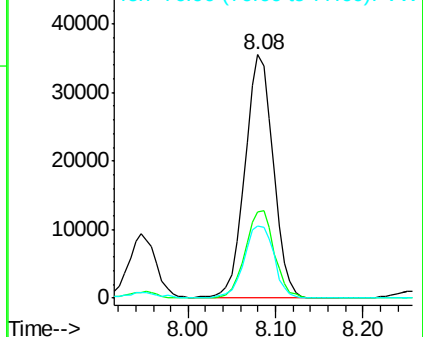
75 100

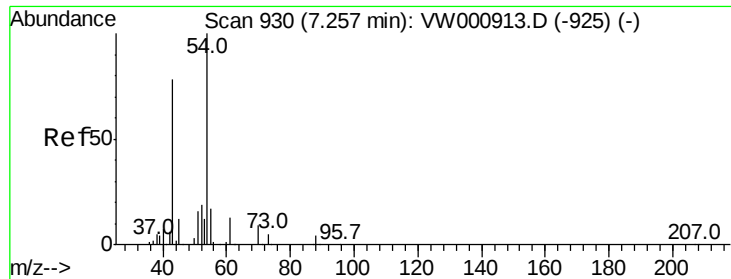
110 36.5 18.6 56.0

77 31.2 24.6 36.8



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





#37

Ethyl Acetate

Concen: 17.811 ug/l

RT: 7.26 min Scan# 931

Delta R.T. 0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

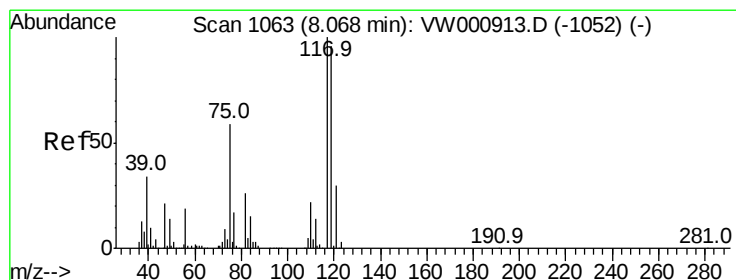
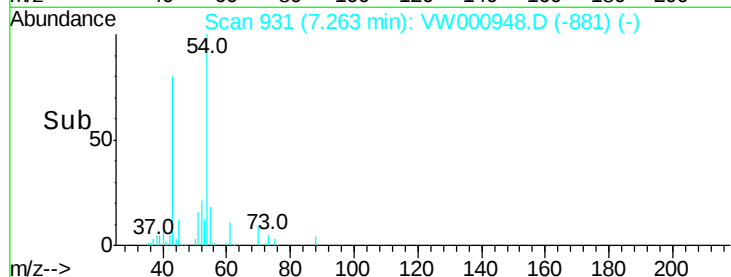
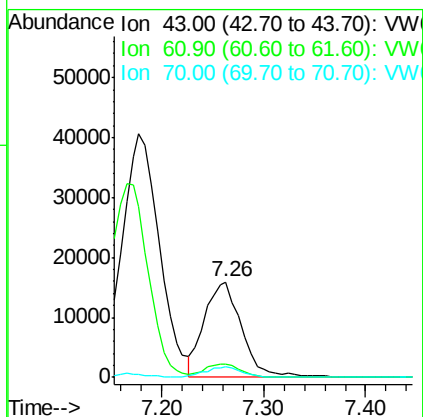
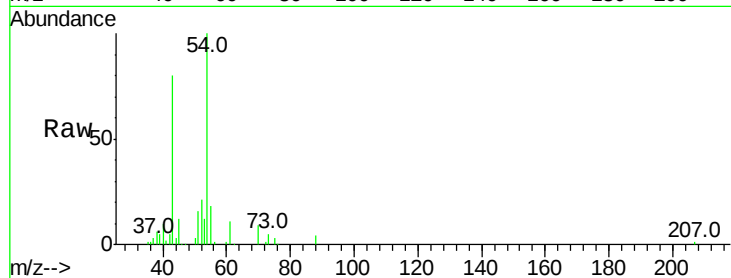
Tot Ion: 43 Resp: 40112

Ion Ratio Lower Upper

43 100

61 14.0 12.1 18.1

70 11.1 9.1 13.7



#38

Carbon Tetrachloride

Concen: 19.640 ug/l

RT: 8.06 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

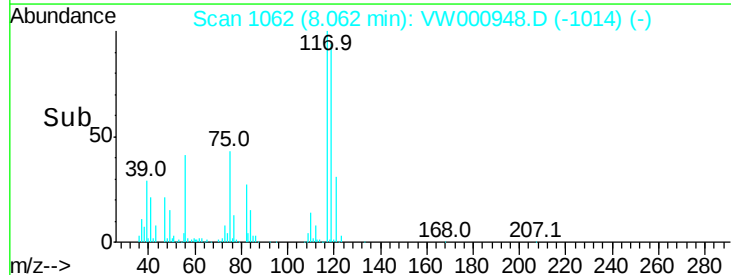
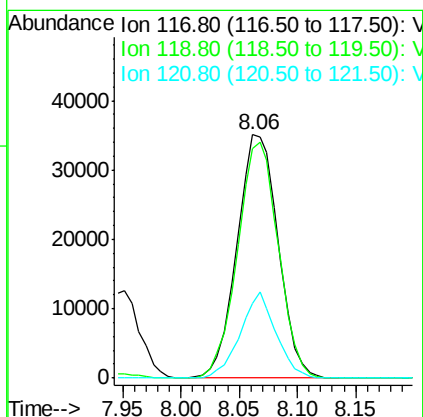
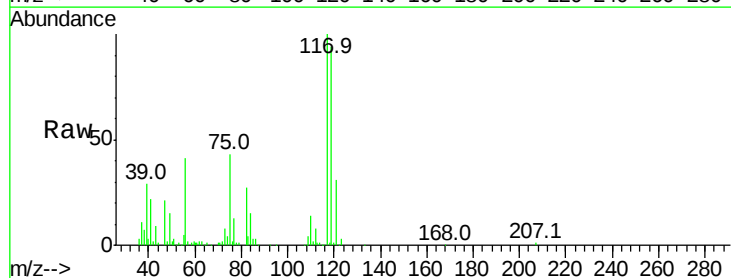
Tgt Ion: 117 Resp: 86442

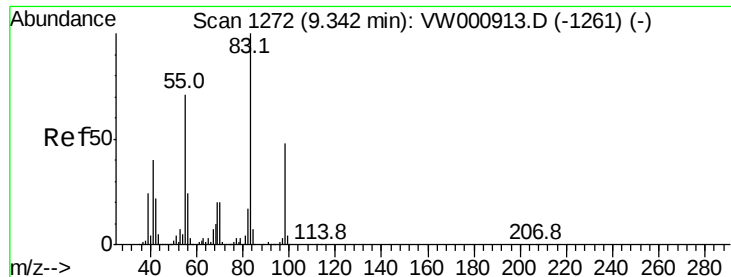
Ion Ratio Lower Upper

117 100

119 94.3 76.5 114.7

121 30.7 24.3 36.5

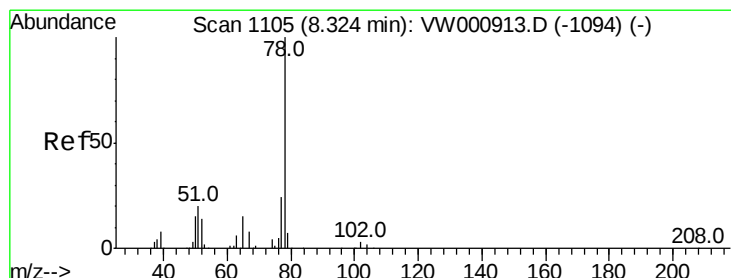
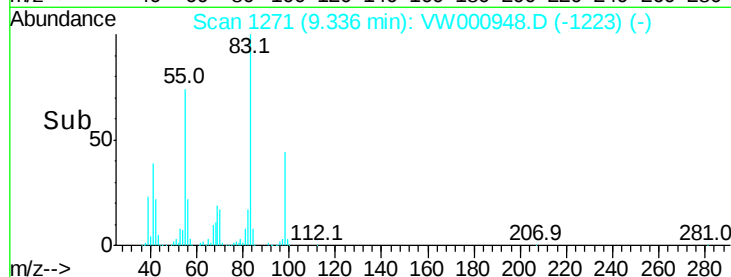
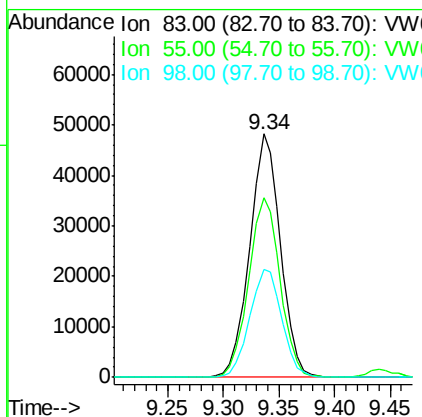
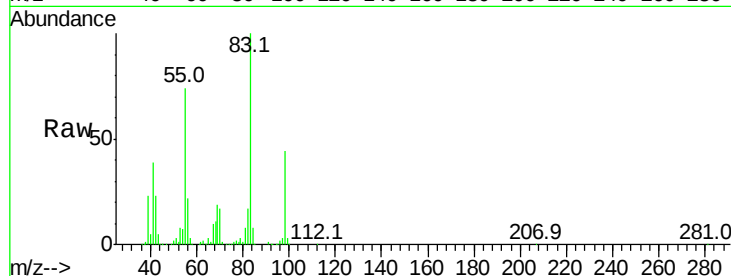




#39  
Methvlcvclohexane  
Concen: 19.297 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

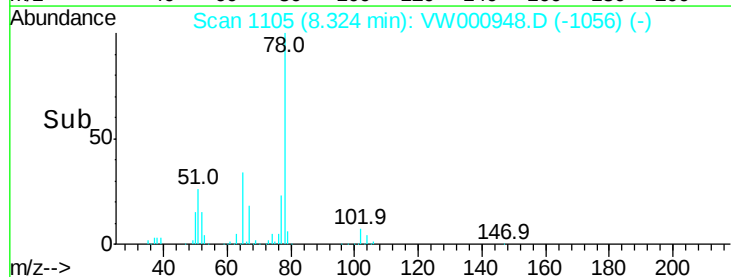
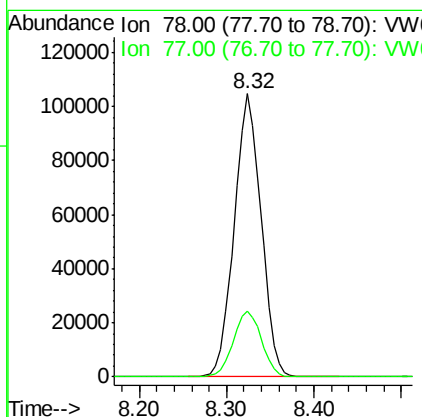
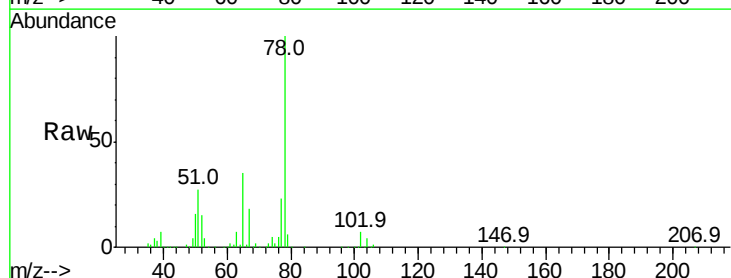
Instrument :  
MSVOA\_W  
ClientSampled :

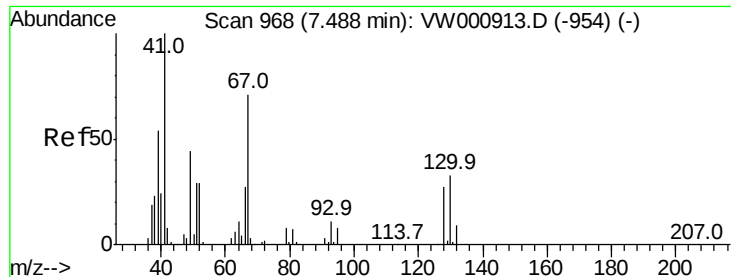
Tot Ion: 83 Resp: 92735  
Ion Ratio Lower Upper  
83 100  
55 74.0 56.4 84.6  
98 44.2 38.2 57.4



#40  
Benzene  
Concen: 20.663 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 78 Resp: 224165  
Ion Ratio Lower Upper  
78 100  
77 23.3 19.0 28.6





#41

Methacrylonitrile

Concen: 15.819 ug/l

RT: 7.49 min Scan# 969

Delta R.T. 0.01 min

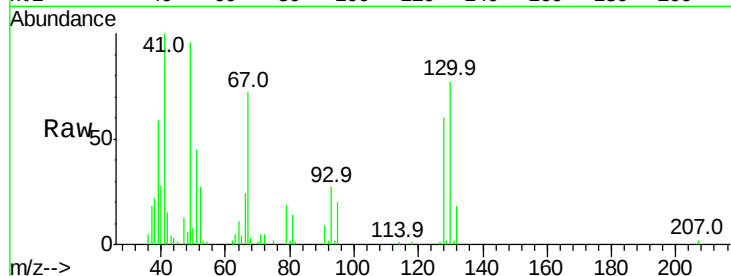
Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

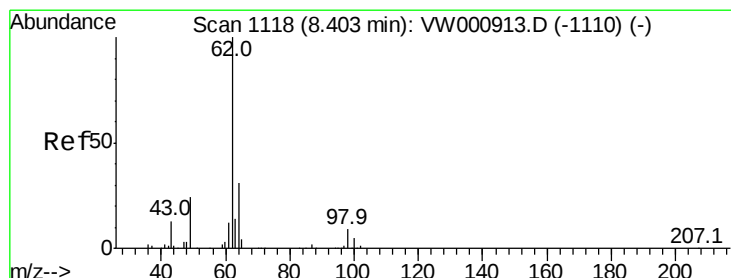
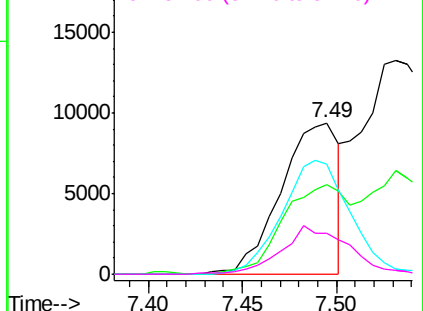
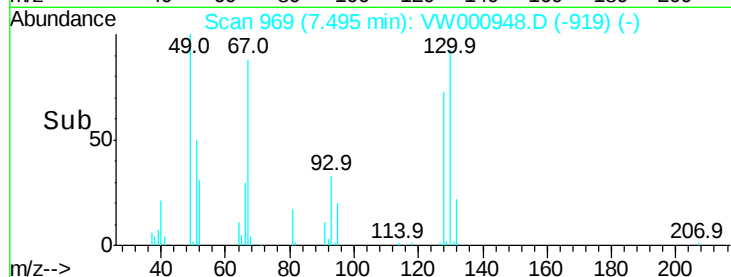
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 41 Resp: 19996

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 66.0  | 43.4  | 65.0# |
| 67  | 88.1  | 59.0  | 88.4  |
| 52  | 36.7  | 24.6  | 36.8  |



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



#42

1,2-Dichloroethane

Concen: 20.816 ug/l

RT: 8.40 min Scan# 1118

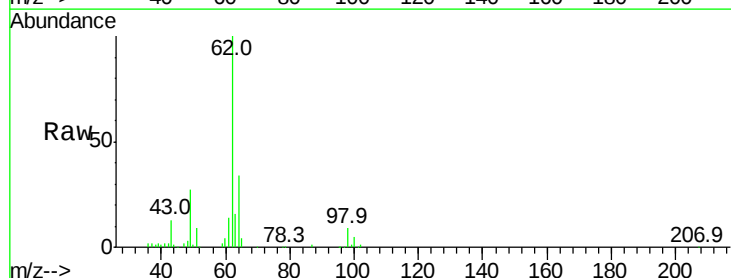
Delta R.T. 0.00 min

Lab File: VW000948.D

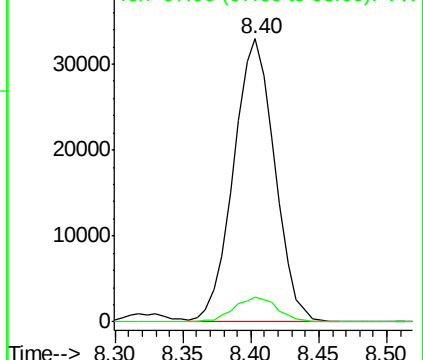
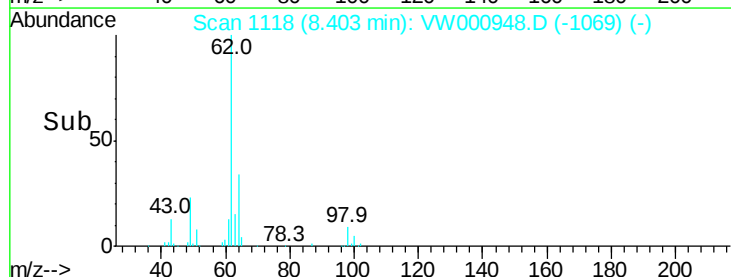
Acq: 24 Jan 2018 15:16

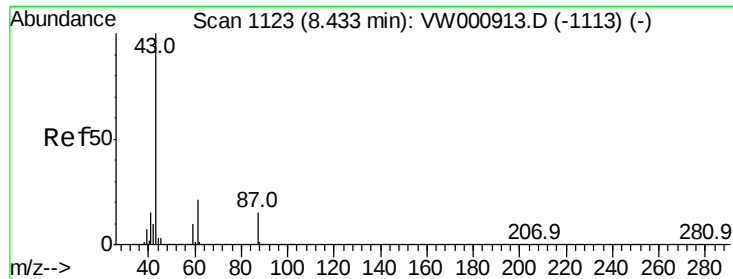
Tgt Ion: 62 Resp: 69582

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 98  | 9.3   | 0.0   | 18.0  |



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





#43

Isopropyl Acetate

Concen: 18.859 ug/l

RT: 8.43 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampled :

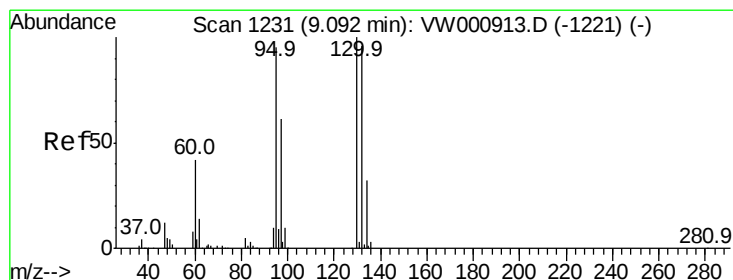
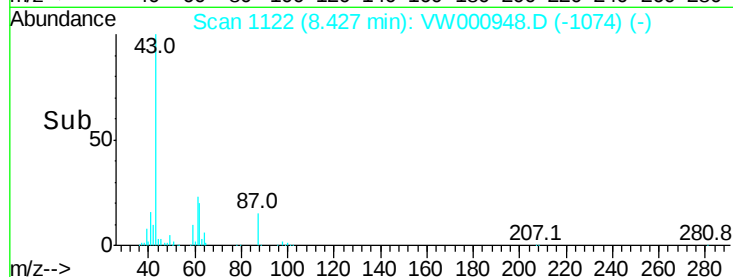
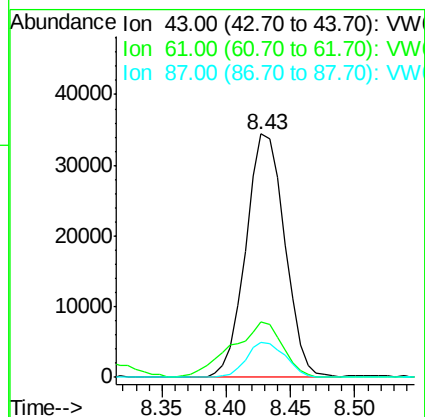
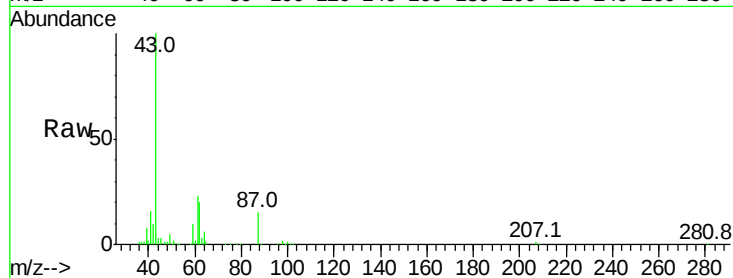
Tot Ion: 43 Resp: 71998

Ion Ratio Lower Upper

43 100

61 30.0 23.6 35.4

87 14.4 11.7 17.5



#44

Trichloroethene

Concen: 20.479 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VW000948.D

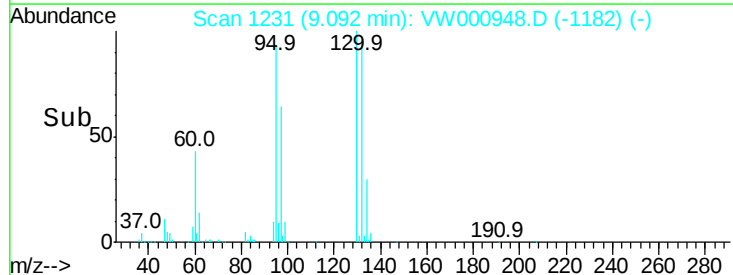
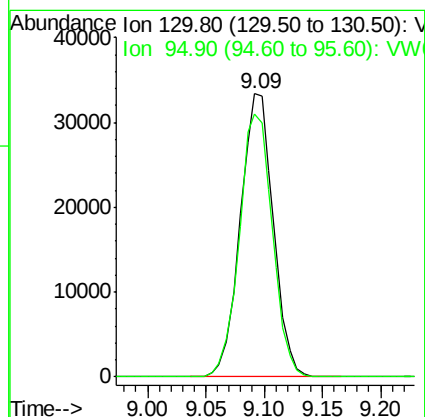
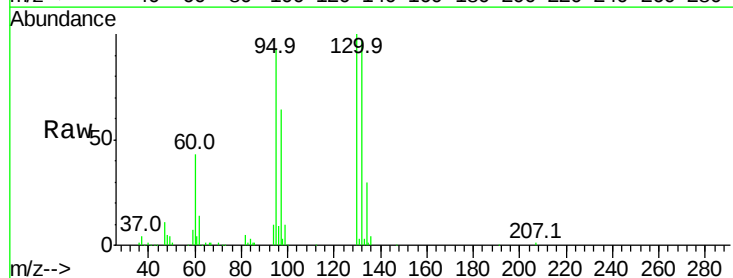
Acq: 24 Jan 2018 15:16

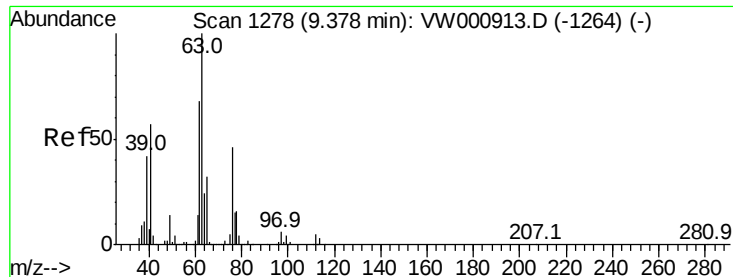
Tgt Ion: 130 Resp: 66013

Ion Ratio Lower Upper

130 100

95 92.7 0.0 190.4





#45

1,2-Dichloropropane

Concen: 21.223 ug/l

RT: 9.37 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

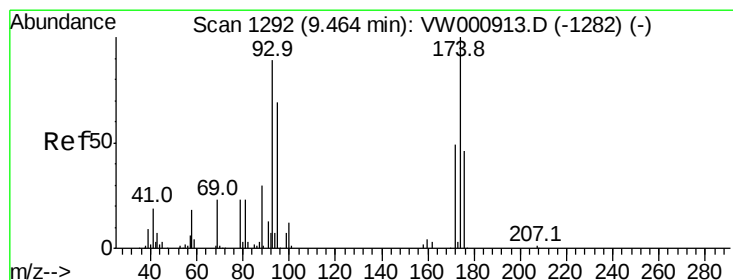
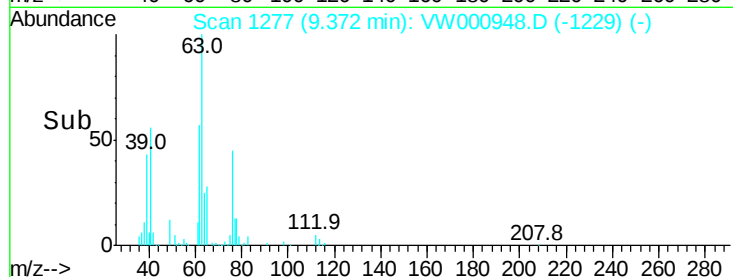
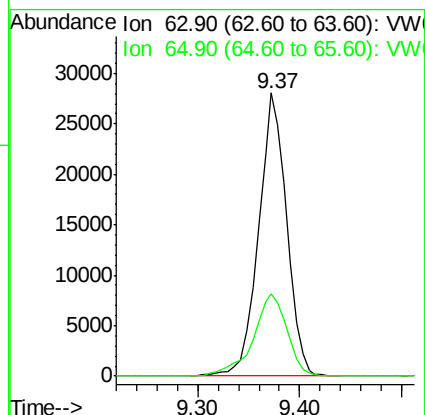
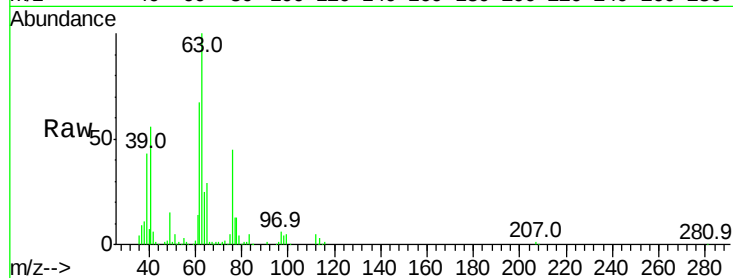
ClientSampleId :

Tot Ion: 63 Resp: 53715

Ion Ratio Lower Upper

63 100

65 29.0 25.2 37.8



#46

Dibromomethane

Concen: 20.086 ug/l

RT: 9.46 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

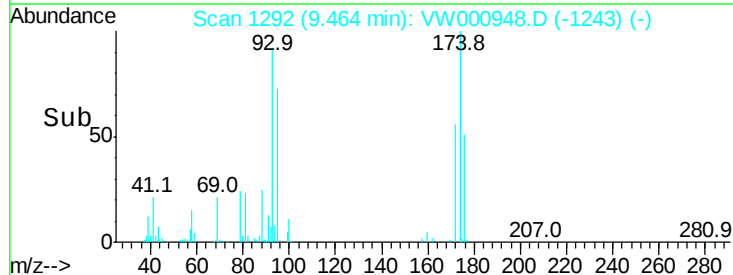
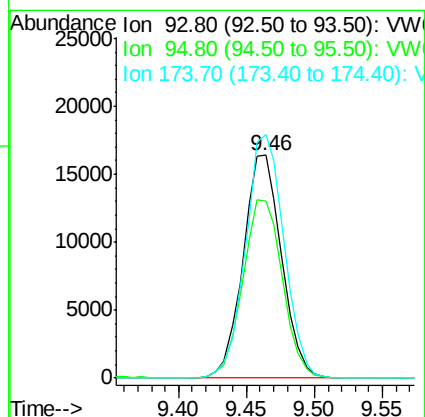
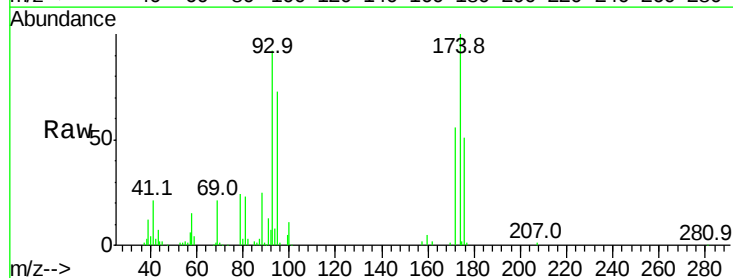
Tgt Ion: 93 Resp: 32478

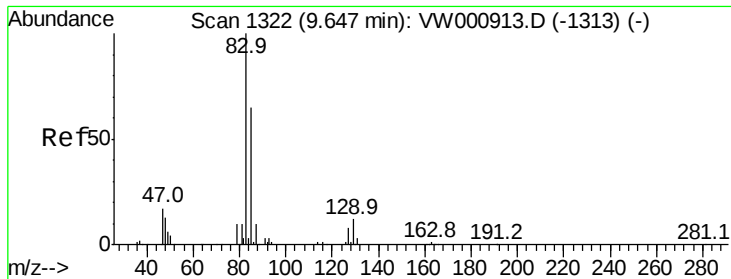
Ion Ratio Lower Upper

93 100

95 82.2 65.8 98.6

174 109.9 89.0 133.6





#47

Bromodichloromethane

Concen: 20.800 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

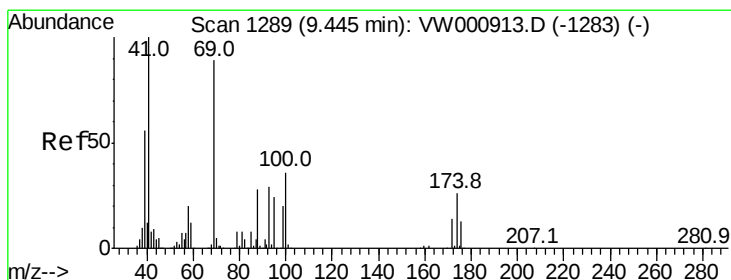
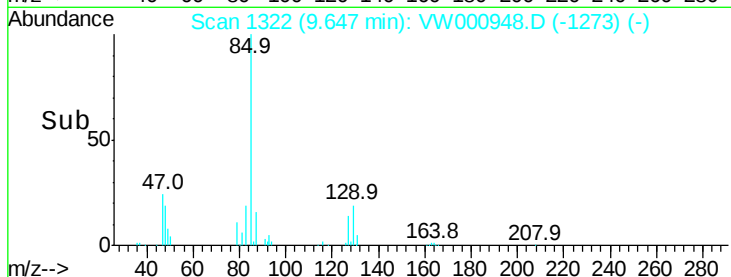
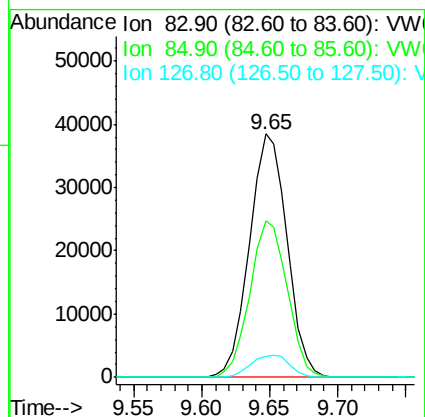
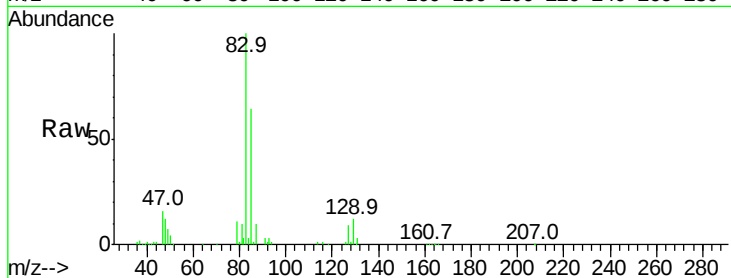
Tot Ion: 83 Resp: 74387

Ion Ratio Lower Upper

83 100

85 64.1 52.0 78.0

127 8.7 6.8 10.2



#48

Methyl methacrylate

Concen: 18.215 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

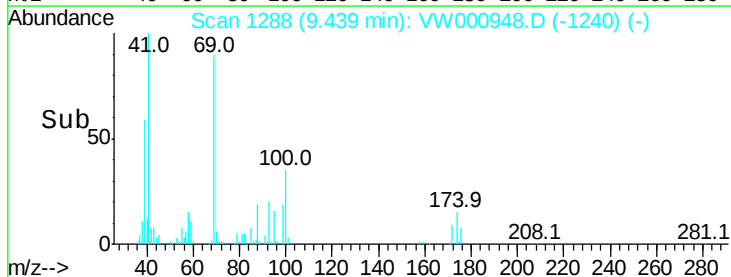
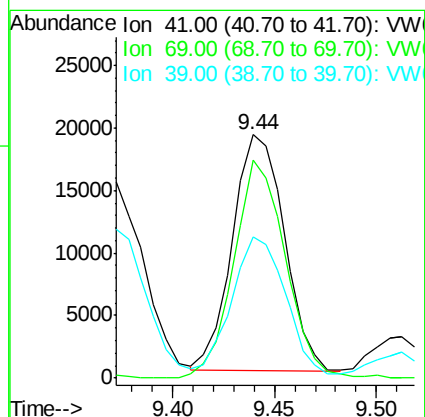
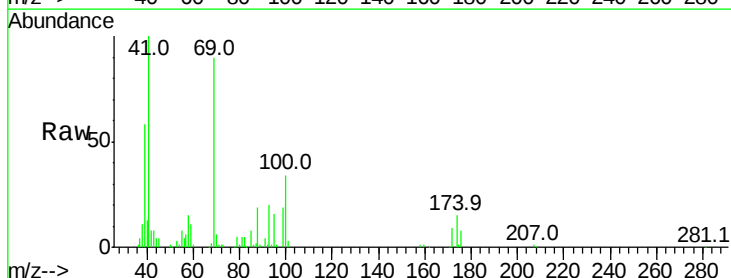
Tgt Ion: 41 Resp: 33399

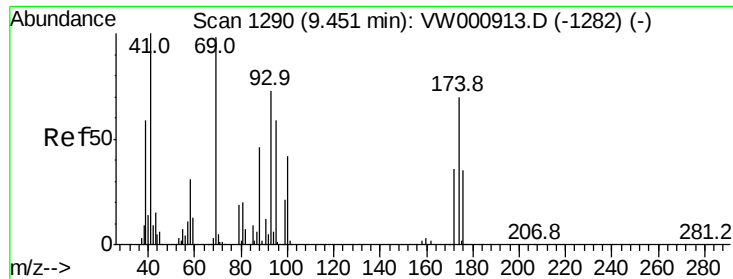
Ion Ratio Lower Upper

41 100

69 92.1 72.9 109.3

39 62.8 48.4 72.6

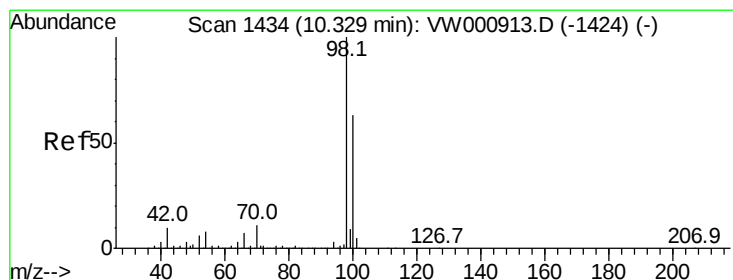
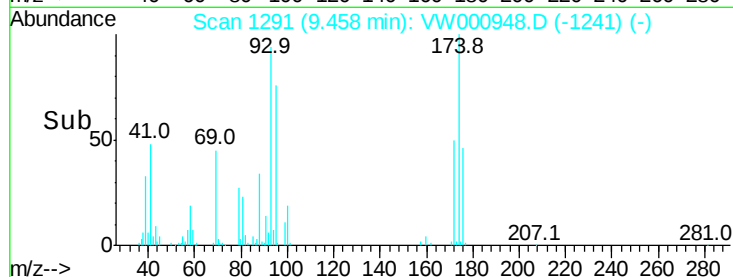
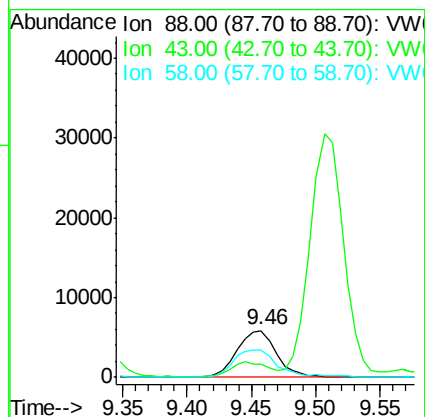
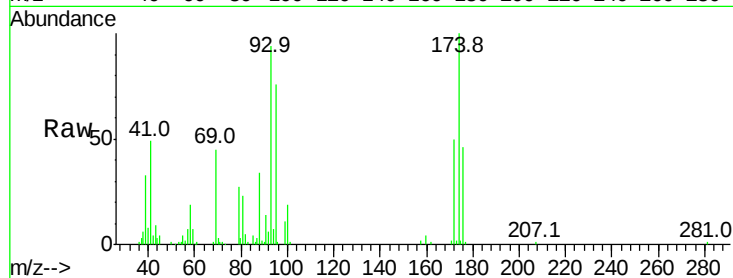




#49  
1,4-Dioxane  
Concen: 346.001 ug/l  
RT: 9.46 min Scan# 1291  
Delta R.T. 0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

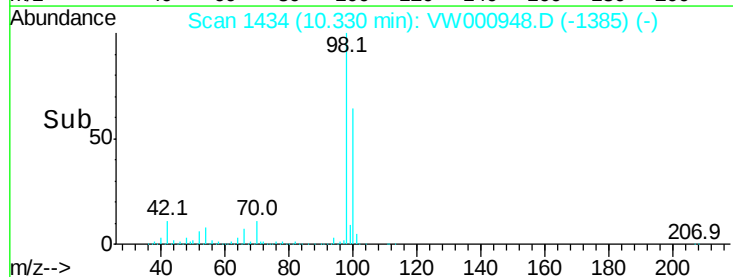
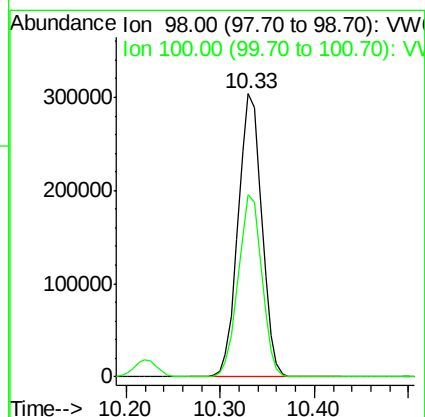
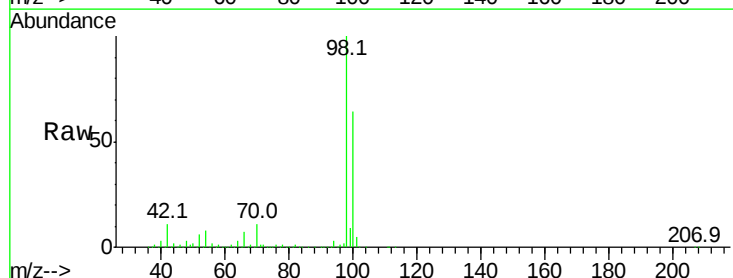
Instrument :  
MSVOA\_W  
ClientSampleId :

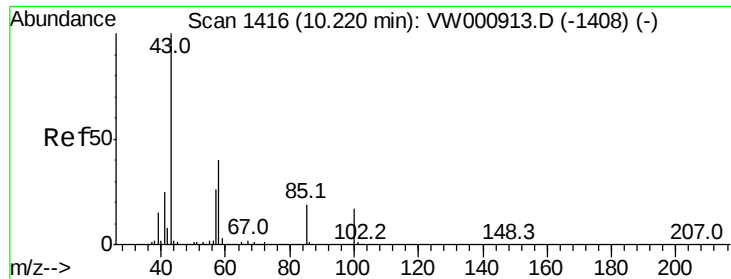
Tot Ion: 88 Resp: 12229  
Ion Ratio Lower Upper  
88 100  
43 33.0 24.5 36.7  
58 68.1 54.7 82.1



#50  
Toluene-d8  
Concen: 52.714 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 98 Resp: 532344  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.8 76.2

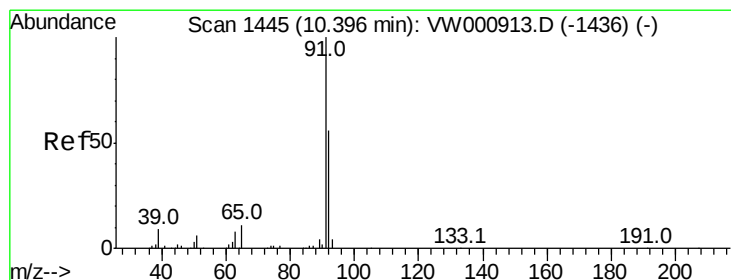
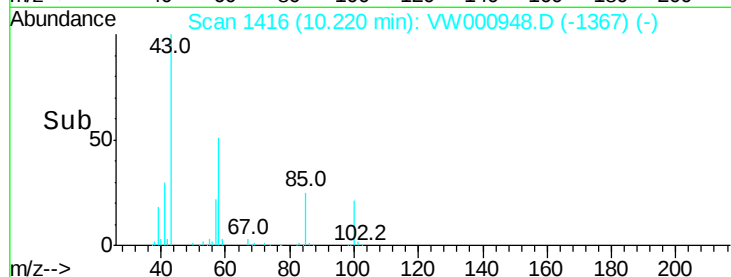
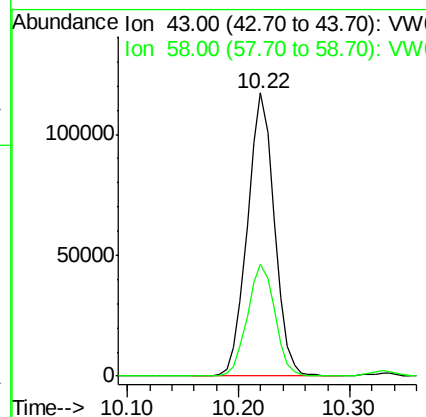
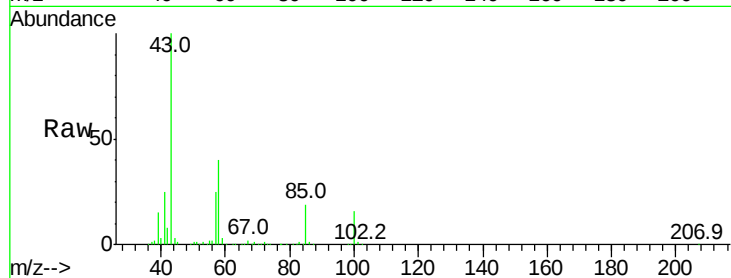




#51  
4-Methyl-2-Pentanone  
Concen: 90.011 ug/l  
RT: 10.22 min Scan# 1416  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

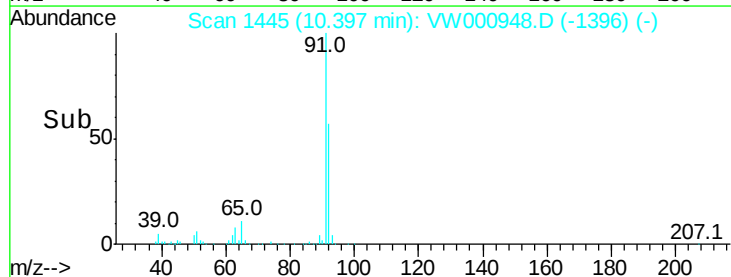
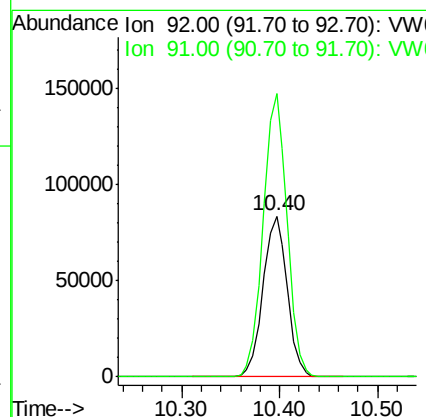
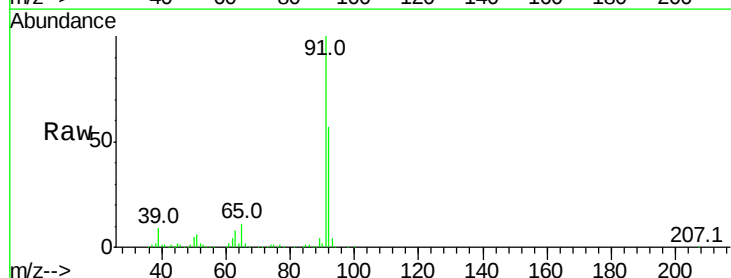
Instrument :  
MSVOA\_W  
ClientSampleId :

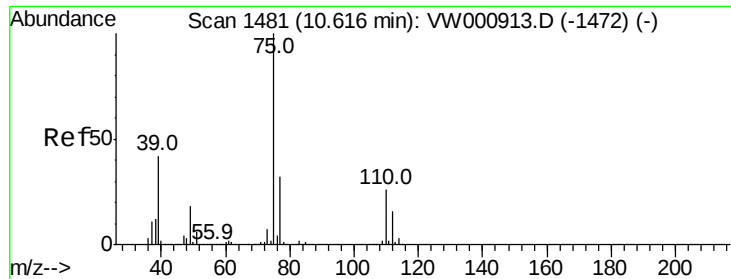
Tot Ion: 43 Resp: 197736  
Ion Ratio Lower Upper  
43 100  
58 40.2 32.0 48.0



#52  
Toluene  
Concen: 21.026 ug/l  
RT: 10.40 min Scan# 1445  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 92 Resp: 144093  
Ion Ratio Lower Upper  
92 100  
91 174.4 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 19.608 ug/l

RT: 10.62 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

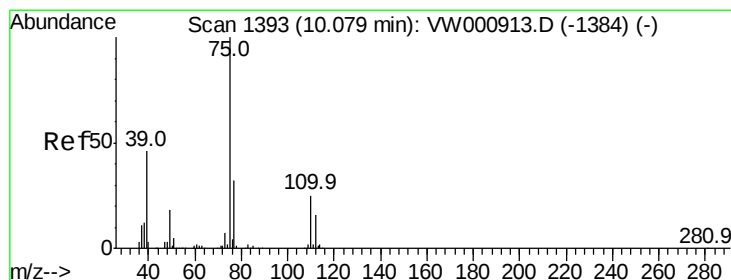
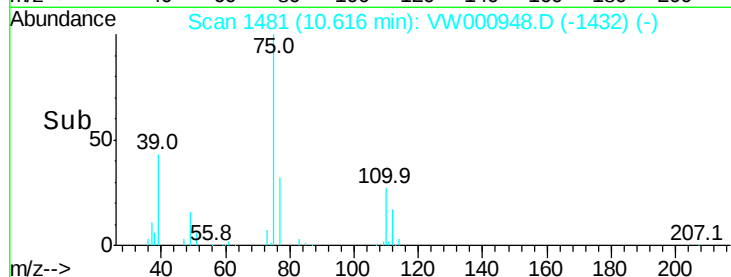
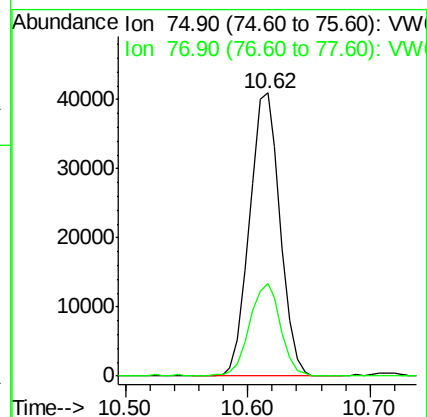
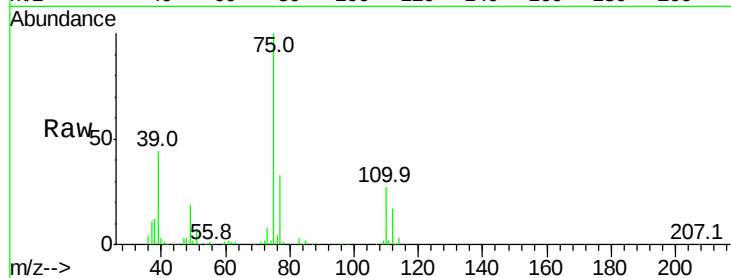
ClientSampleId :

Tot Ion: 75 Resp: 71042

Ion Ratio Lower Upper

75 100

77 32.7 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 20.493 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

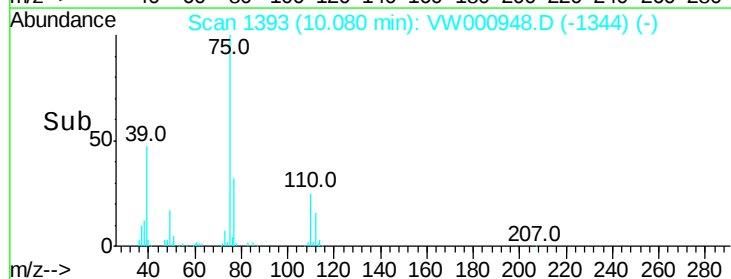
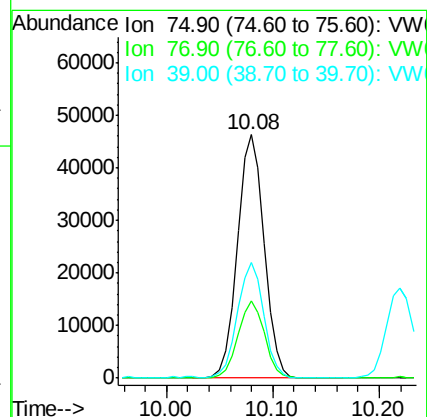
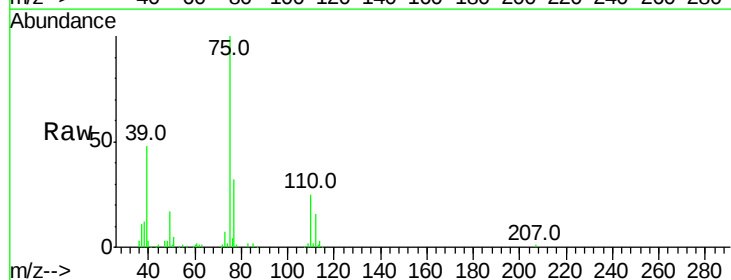
Tgt Ion: 75 Resp: 81683

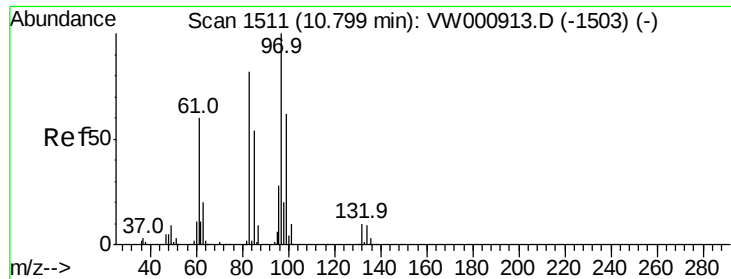
Ion Ratio Lower Upper

75 100

77 31.8 25.3 37.9

39 47.3 37.0 55.6

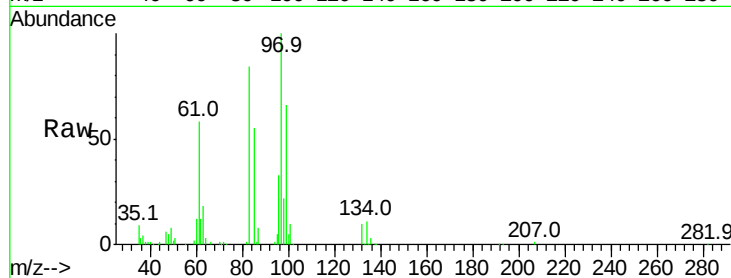




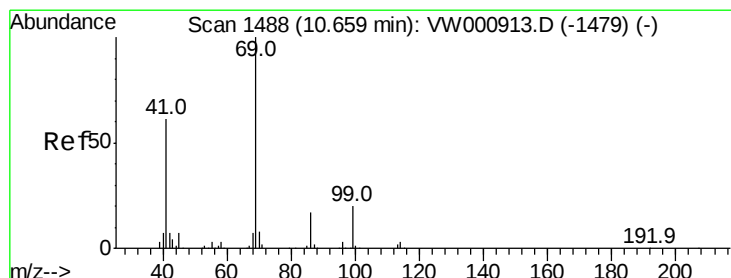
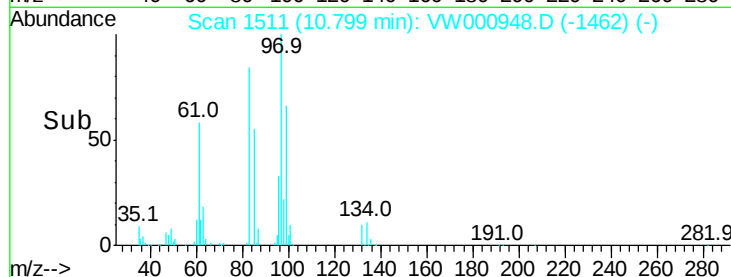
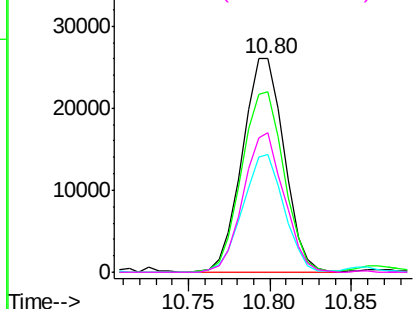
#55  
 1,1,2-Trichloroethane  
 Concen: 20.622 ug/l  
 RT: 10.80 min Scan# 1511  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 46565 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.3  | 65.2  | 97.8  |
| 85       | 55.0  | 43.1  | 64.7  |
| 99       | 65.6  | 49.3  | 73.9  |

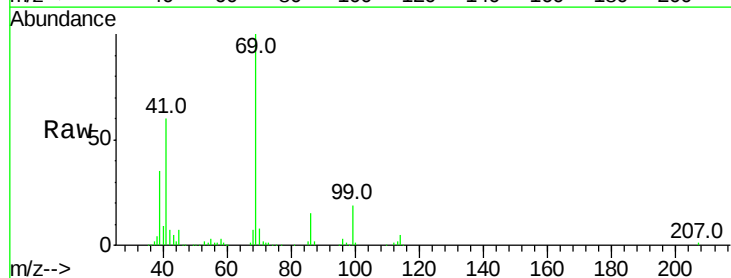


Abundance Ion 96.90 (96.60 to 97.60): VW  
 Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW  
 Ion 98.90 (98.60 to 99.60): VW

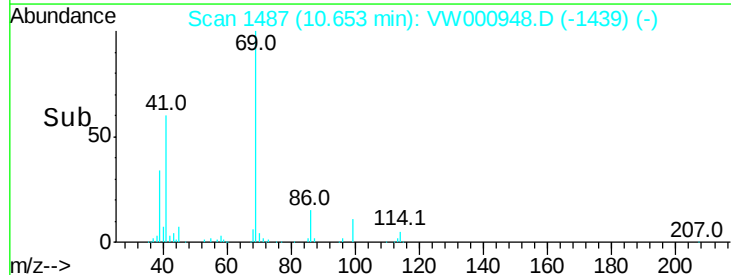
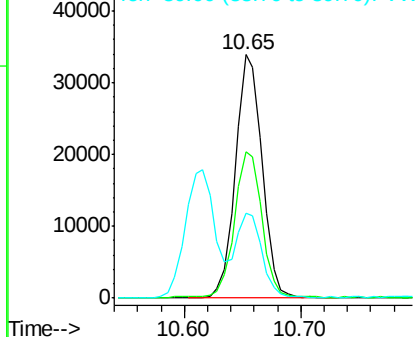


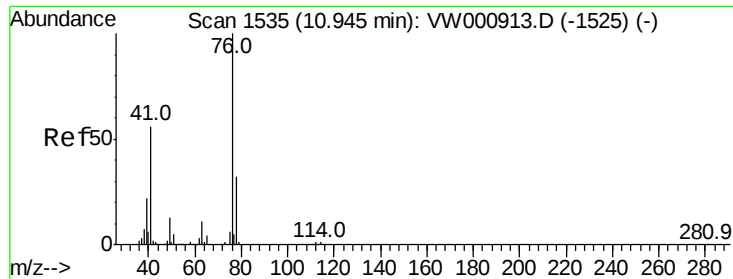
#56  
 Ethyl methacrylate  
 Concen: 19.968 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. -0.01 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 54179 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 63.1  | 50.3  | 75.5  |
| 39       | 34.3  | 28.6  | 42.8  |



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





#57

1,3-Dichloropropane

Concen: 20.515 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

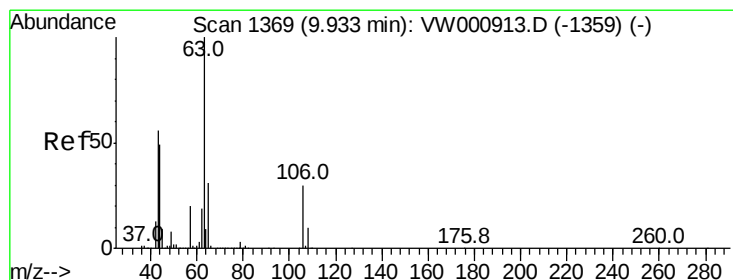
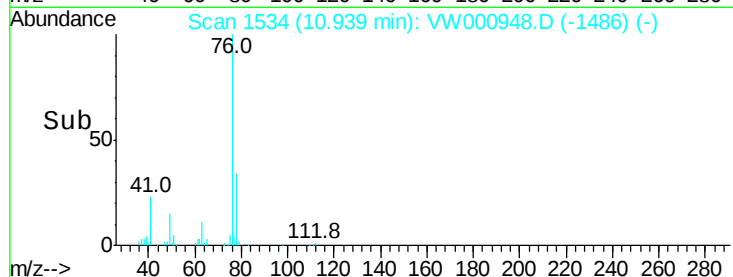
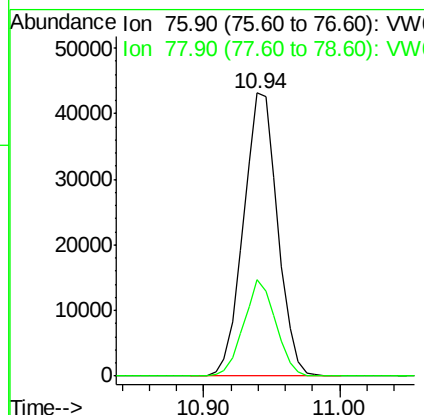
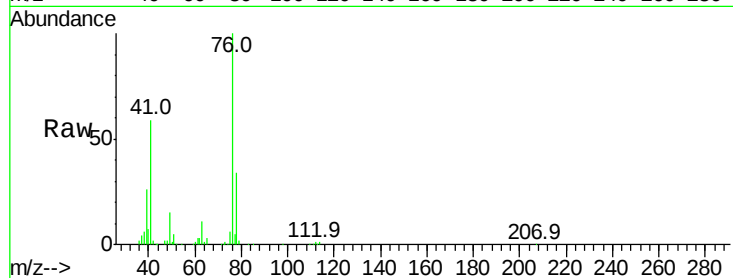
ClientSampleId :

Tot Ion: 76 Resp: 75651

Ion Ratio Lower Upper

76 100

78 32.1 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 84.732 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VW000948.D

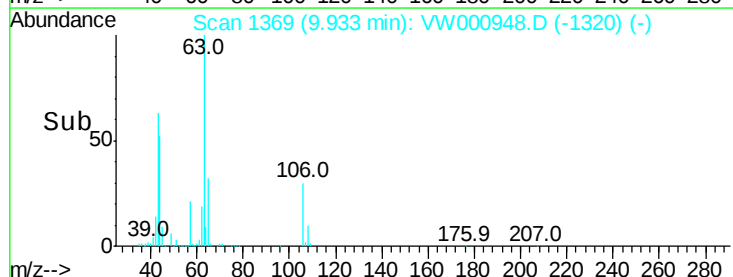
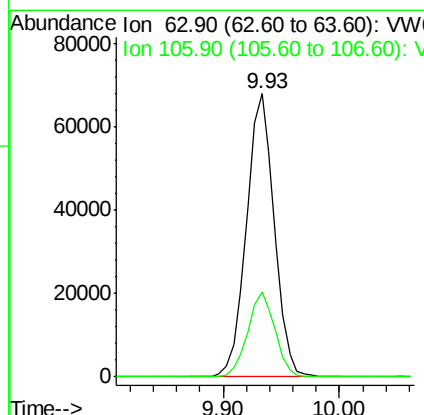
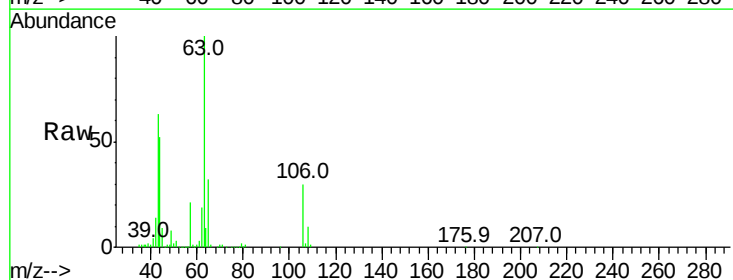
Acq: 24 Jan 2018 15:16

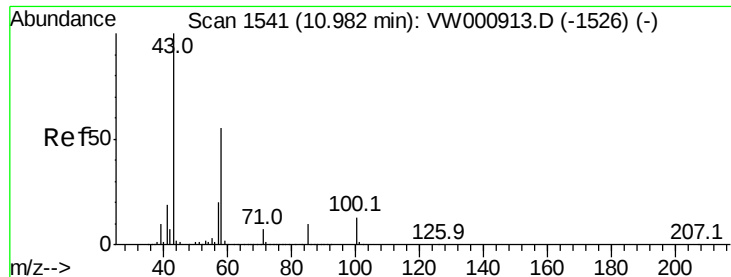
Tgt Ion: 63 Resp: 112989

Ion Ratio Lower Upper

63 100

106 29.4 23.8 35.8

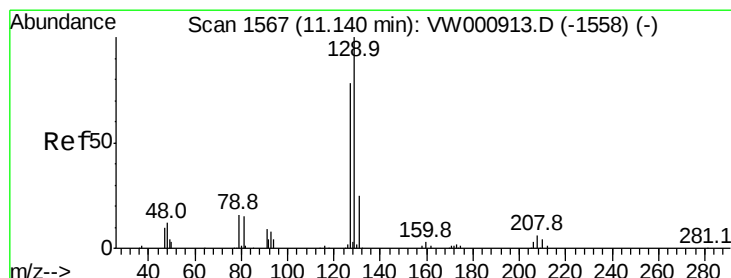
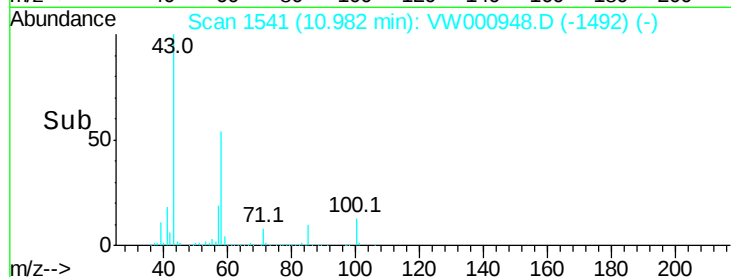
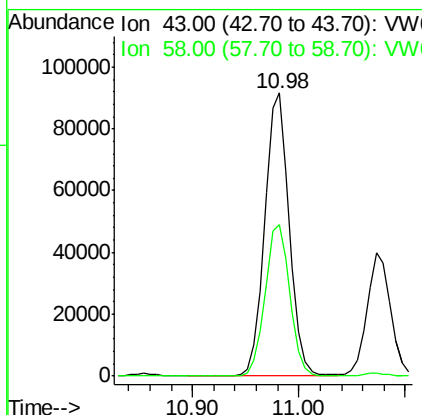
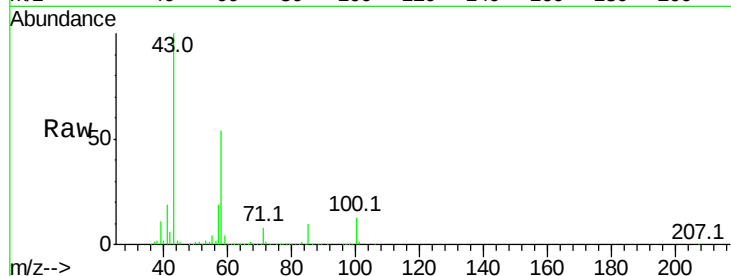




#59  
2-Hexanone  
Concen: 86.485 ug/l  
RT: 10.98 min Scan# 1541  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

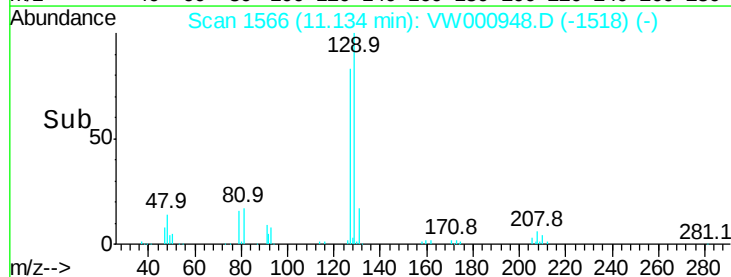
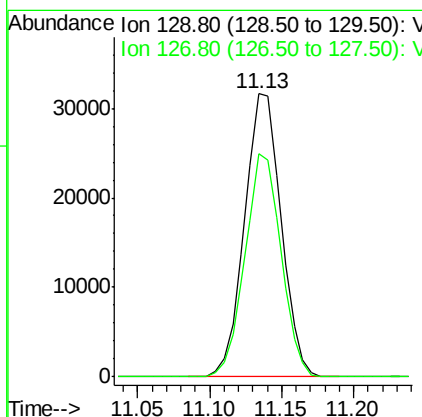
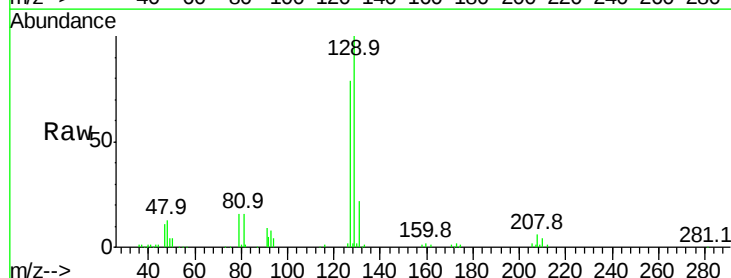
Instrument :  
MSVOA\_W  
ClientSampled :

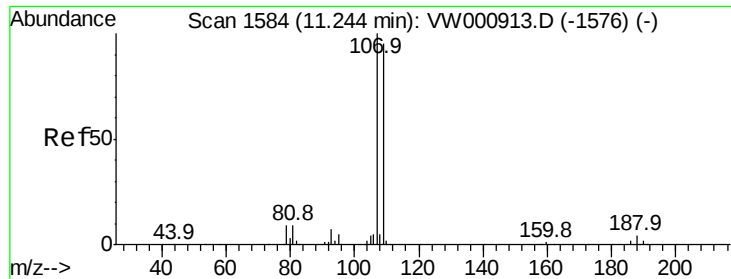
Tot Ion: 43 Resp: 147332  
Ion Ratio Lower Upper  
43 100  
58 54.0 27.4 82.2



#60  
Dibromochloromethane  
Concen: 20.396 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 129 Resp: 55625  
Ion Ratio Lower Upper  
129 100  
127 77.5 38.4 115.2





#61

1,2-Dibromoethane

Concen: 20.076 ug/l

RT: 11.24 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

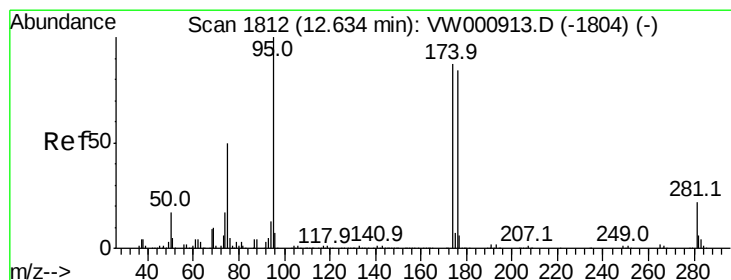
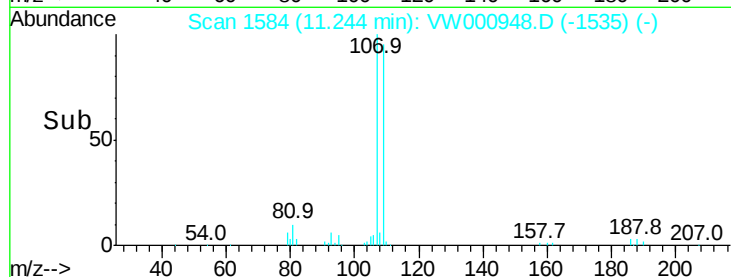
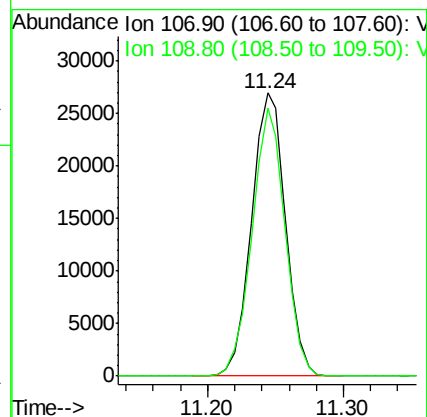
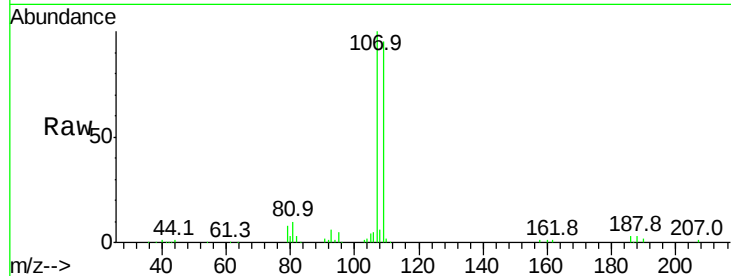
ClientSampleId :

Tot Ion:107 Resp: 47228

Ion Ratio Lower Upper

107 100

109 91.9 76.0 114.0



#62

4-Bromofluorobenzene

Concen: 52.684 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

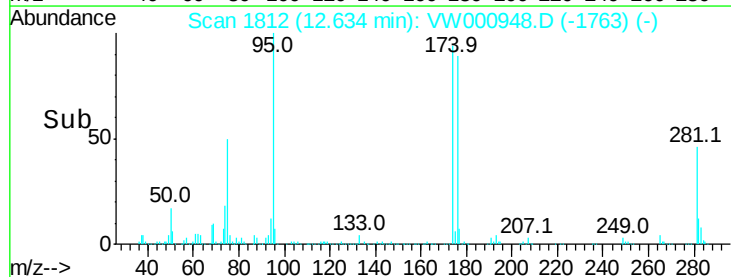
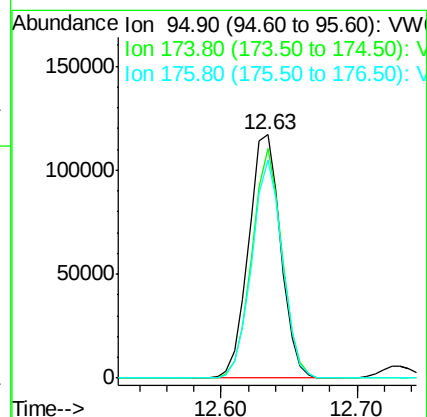
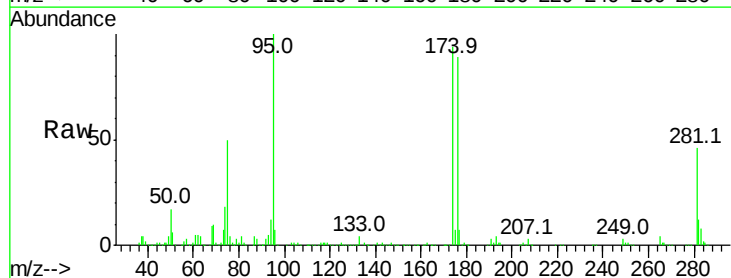
Tgt Ion: 95 Resp: 193760

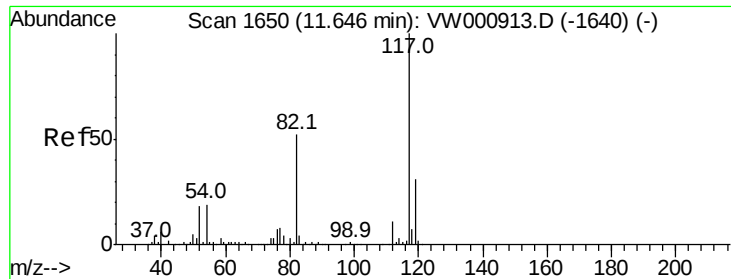
Ion Ratio Lower Upper

95 100

174 88.9 0.0 176.8

176 85.5 0.0 171.8

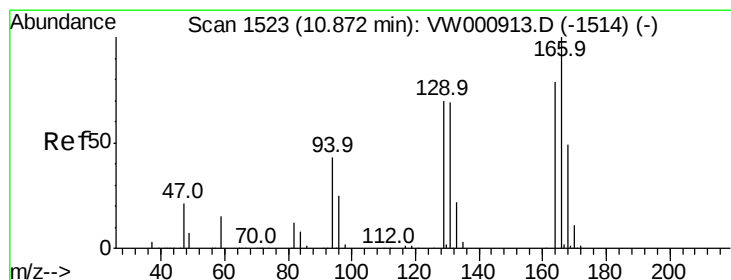
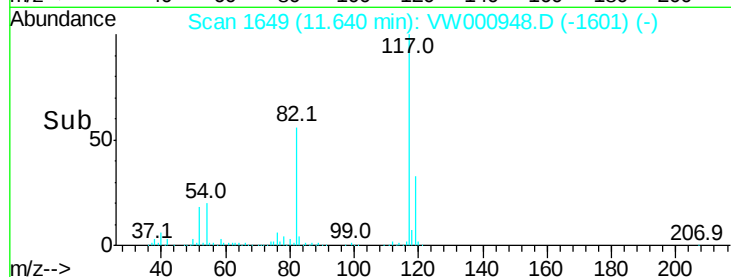
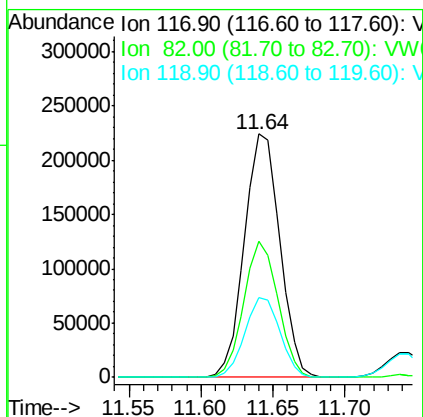
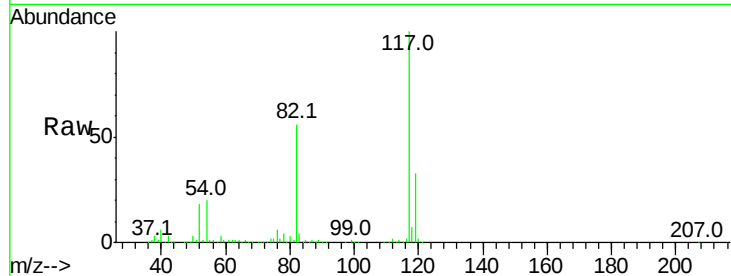




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

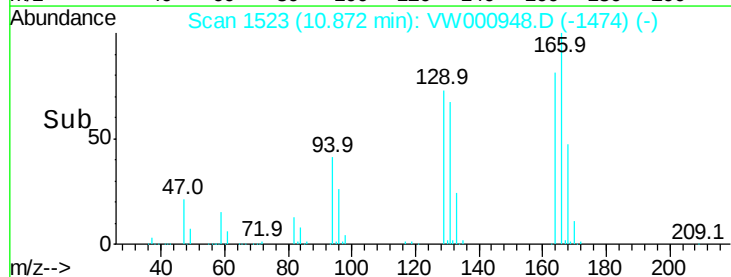
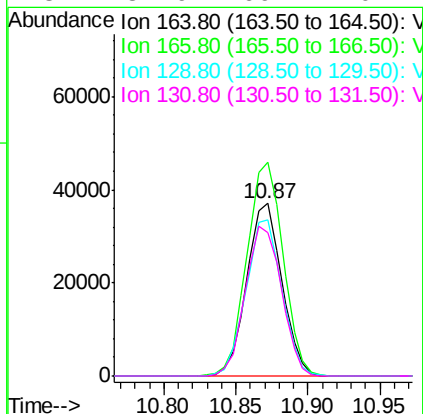
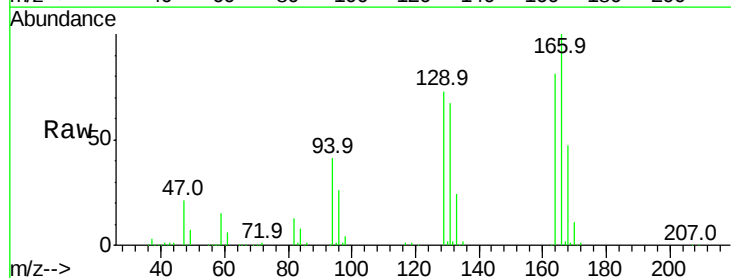
Instrument :  
MSVOA\_W  
ClientSampleId :

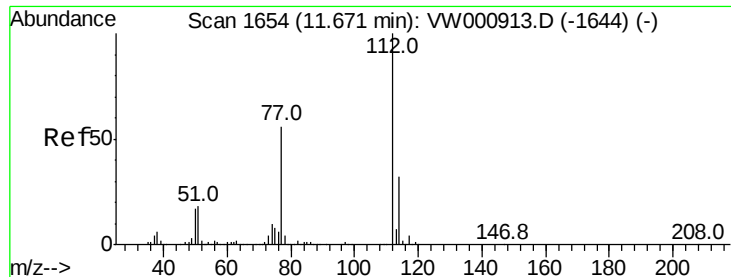
Tot Ion:117 Resp: 381723  
Ion Ratio Lower Upper  
117 100  
82 55.7 41.8 62.6  
119 32.8 25.2 37.8



#64  
Tetrachloroethene  
Concen: 19.748 ug/l  
RT: 10.87 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion:164 Resp: 62566  
Ion Ratio Lower Upper  
164 100  
166 123.9 100.9 151.3  
129 90.8 70.5 105.7  
131 82.9 69.4 104.2





#65

Chlorobenzene

Concen: 21.043 ug/l

RT: 11.67 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

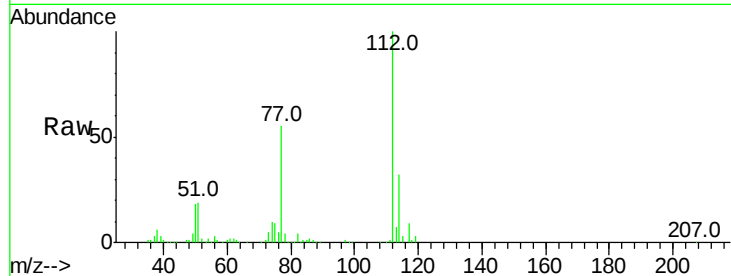
ClientSampleId :

Tot Ion:112 Resp: 164798

Ion Ratio Lower Upper

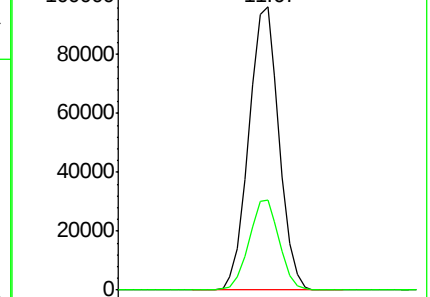
112 100

114 31.7 25.8 38.6

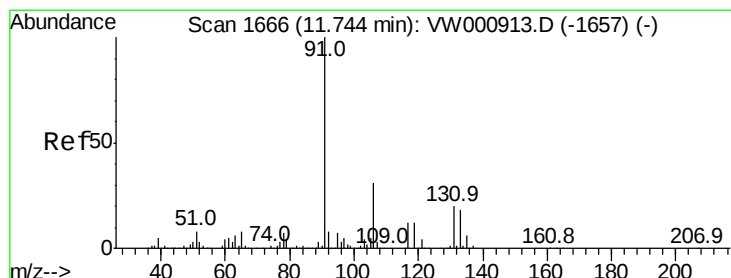
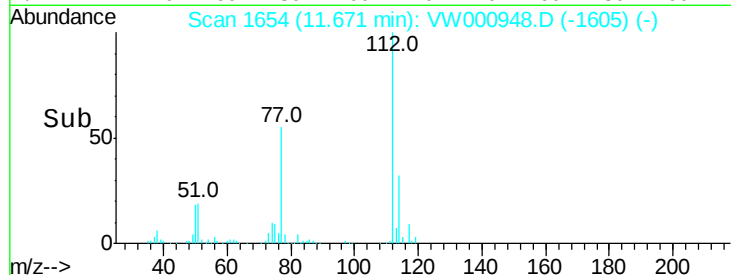


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 21.178 ug/l

RT: 11.74 min Scan# 1666

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

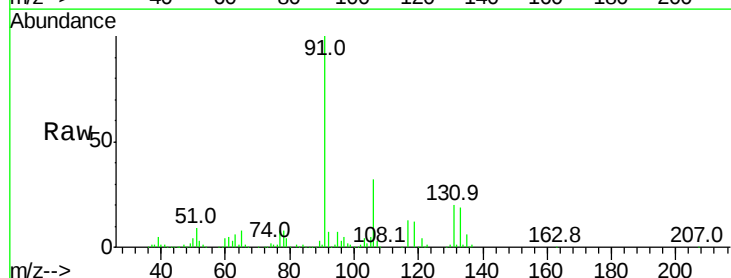
Tgt Ion:131 Resp: 59557

Ion Ratio Lower Upper

131 100

133 94.9 47.3 142.0

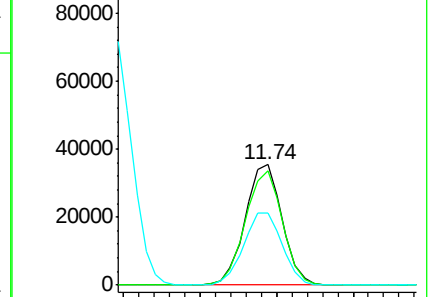
119 62.7 31.6 94.7



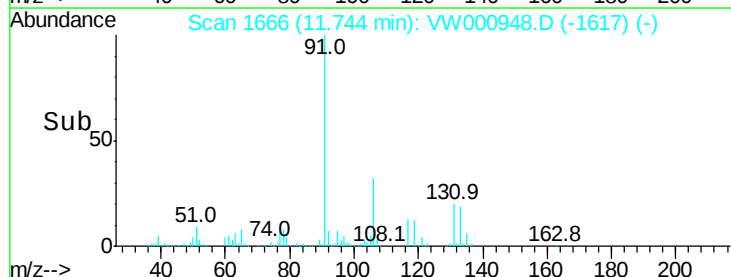
Abundance Ion 130.80 (130.50 to 131.50): V

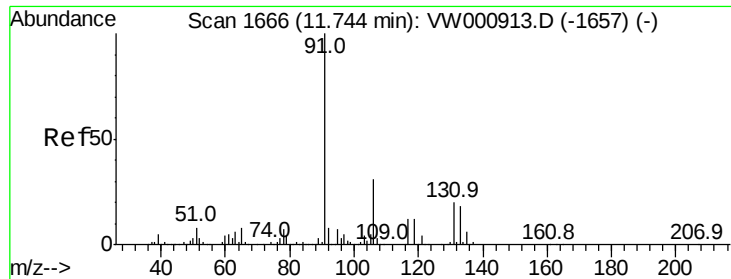
Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->

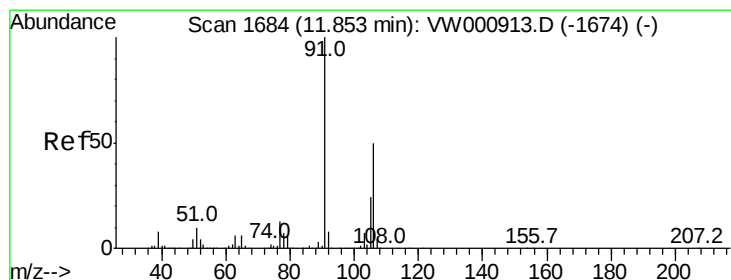
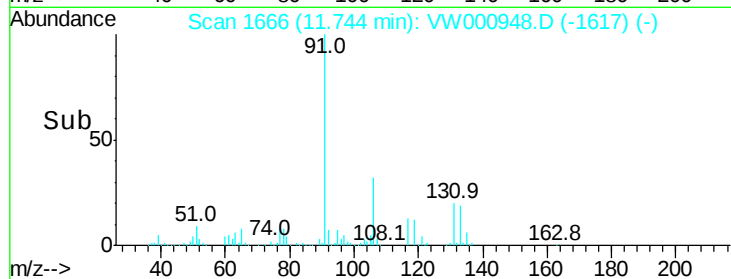
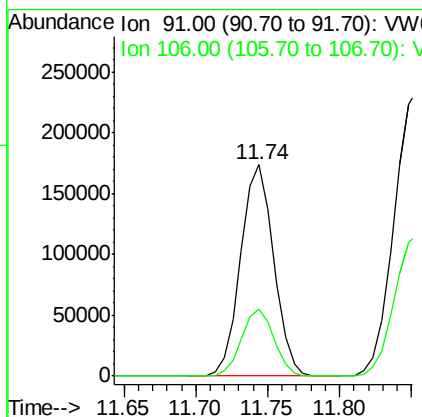
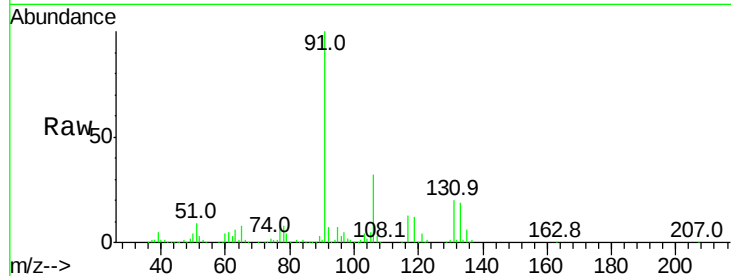




#67  
Ethyl Benzene  
Concen: 20.917 ug/l  
RT: 11.74 min Scan# 1666  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

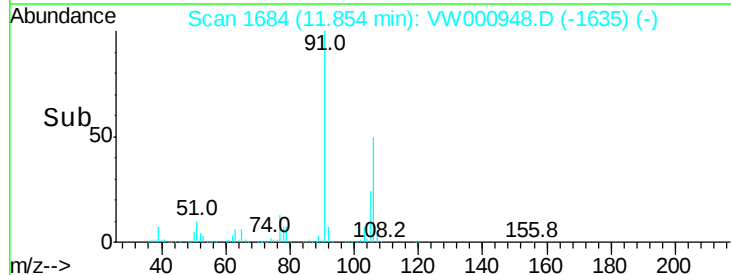
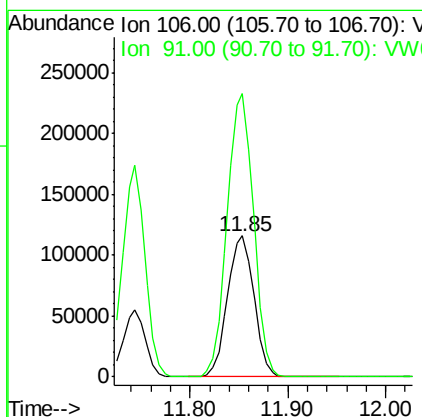
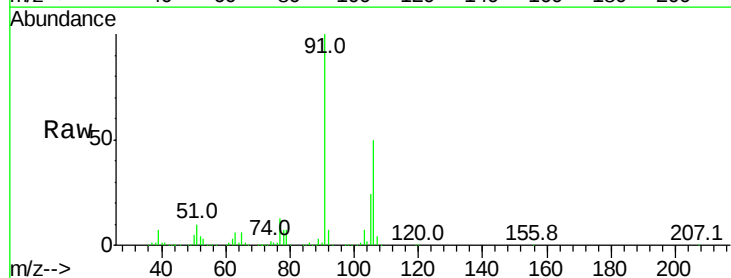
Instrument :  
MSVOA\_W  
ClientSampleId :

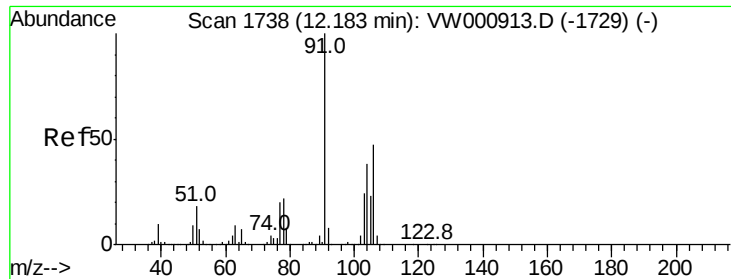
Tot Ion: 91 Resp: 276720  
Ion Ratio Lower Upper  
91 100  
106 31.6 25.1 37.7



#68  
m/p-Xylenes  
Concen: 42.394 ug/l  
RT: 11.85 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 106 Resp: 217989  
Ion Ratio Lower Upper  
106 100  
91 199.8 161.9 242.9

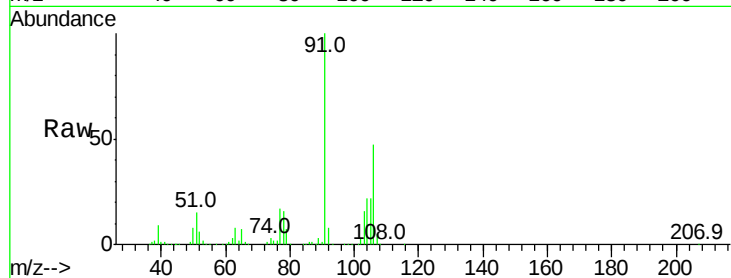




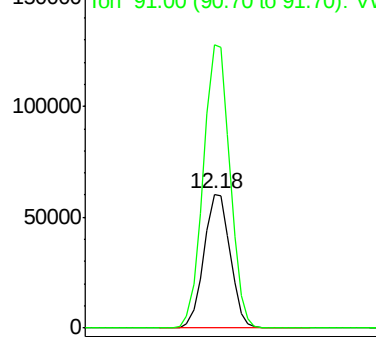
#69  
o-Xylene  
Concen: 20.964 ug/l  
RT: 12.18 min Scan# 1737  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

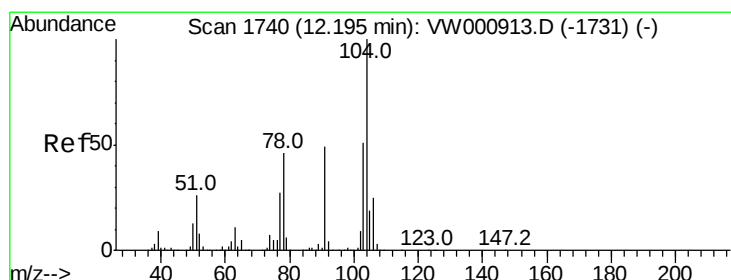
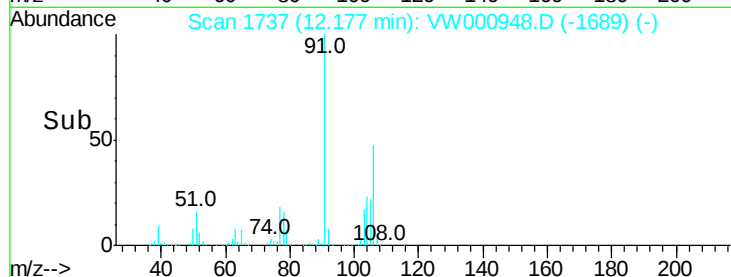
Tot Ion:106 Resp: 98854  
Ion Ratio Lower Upper  
106 100  
91 214.0 106.3 318.8



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

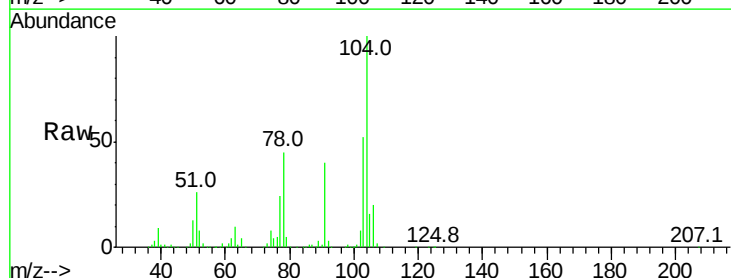


Time--> 12.10 12.20 12.30

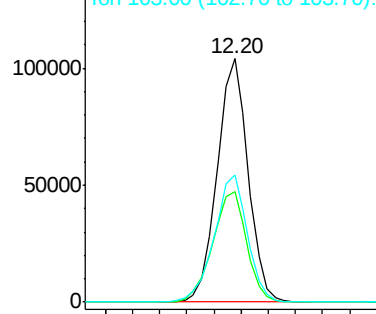


#70  
Styrene  
Concen: 21.578 ug/l  
RT: 12.20 min Scan# 1740  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

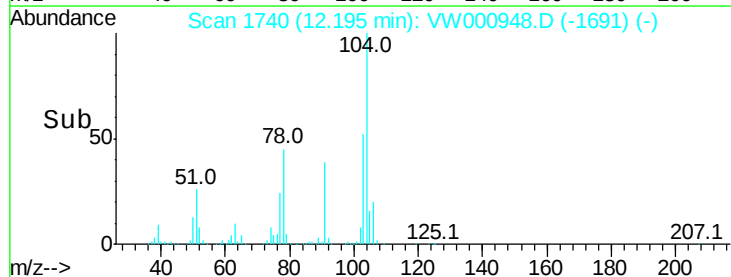
Tgt Ion:104 Resp: 165864  
Ion Ratio Lower Upper  
104 100  
78 49.9 40.1 60.1  
103 56.0 44.6 66.8

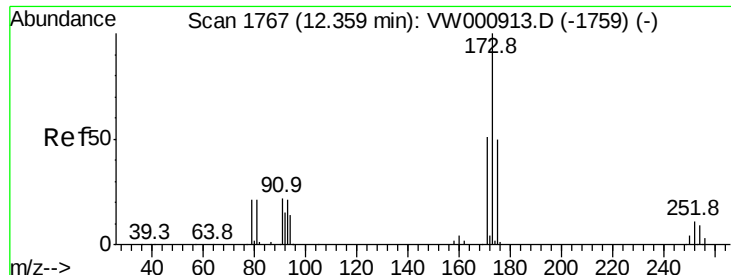


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VW  
Ion 103.00 (102.70 to 103.70): V



Time--> 12.10 12.20





#71

Bromoform

Concen: 19.685 ug/l

RT: 12.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampled :

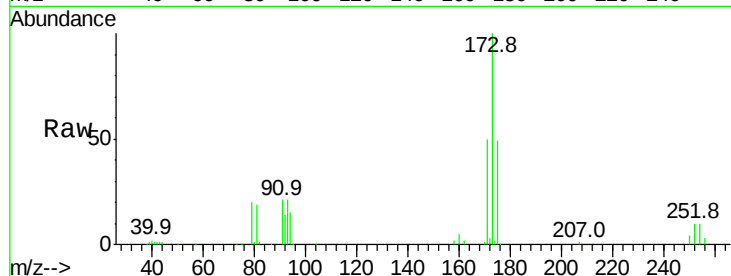
Tot Ion:173 Resp: 37558

Ion Ratio Lower Upper

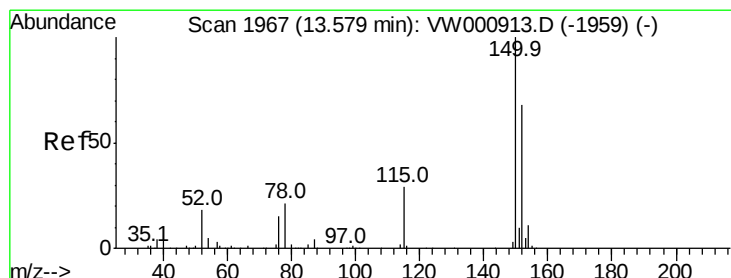
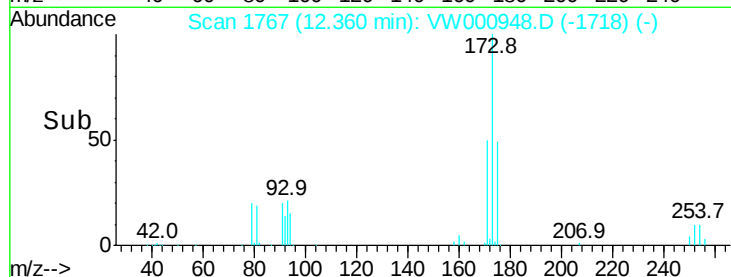
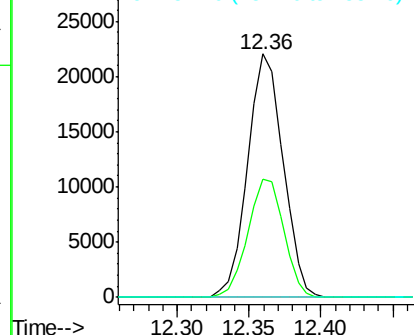
173 100

175 49.2 24.7 74.1

254 0.1 0.2 0.2#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1966

Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

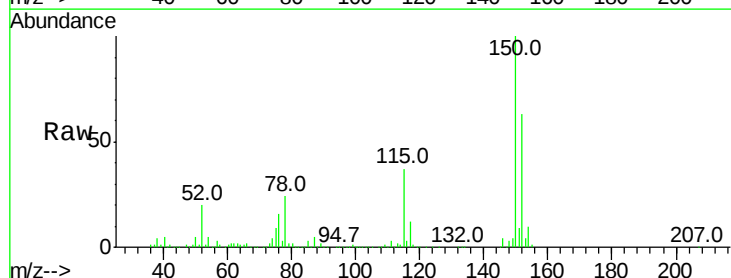
Tgt Ion:152 Resp: 211960

Ion Ratio Lower Upper

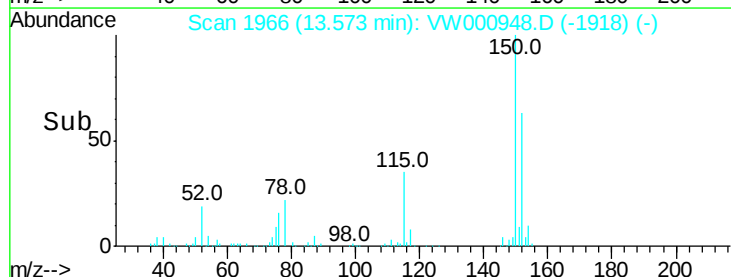
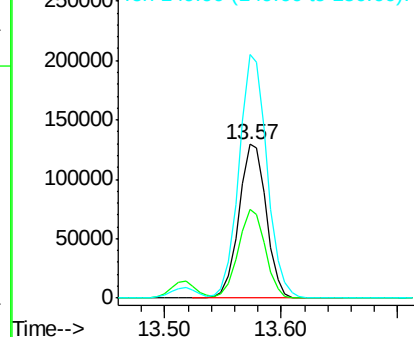
152 100

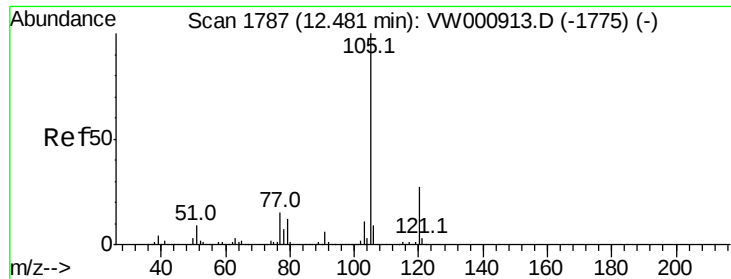
115 56.7 28.5 85.5

150 162.3 0.0 342.0



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

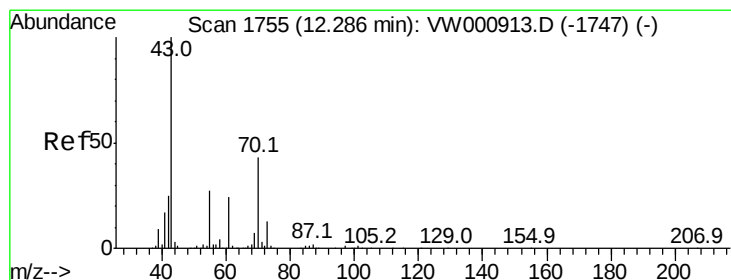
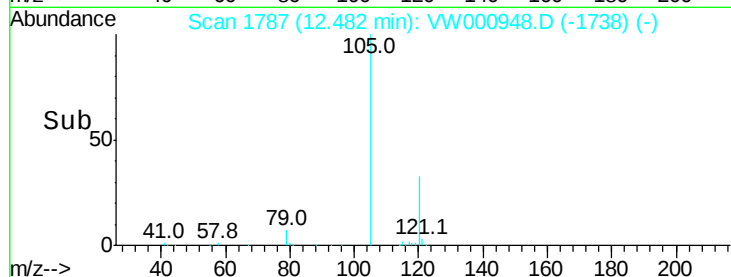
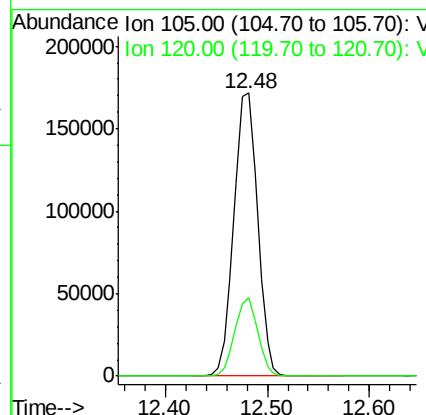
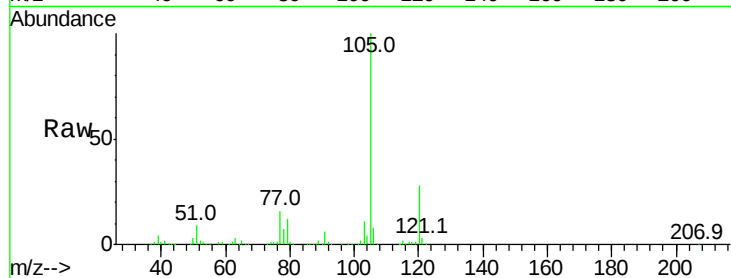




#73  
Isopropylbenzene  
Concen: 20.105 ug/l  
RT: 12.48 min Scan# 1787  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

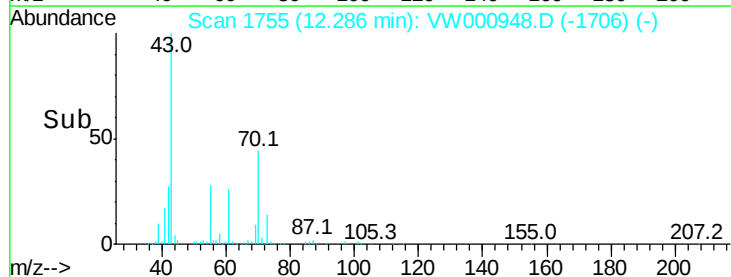
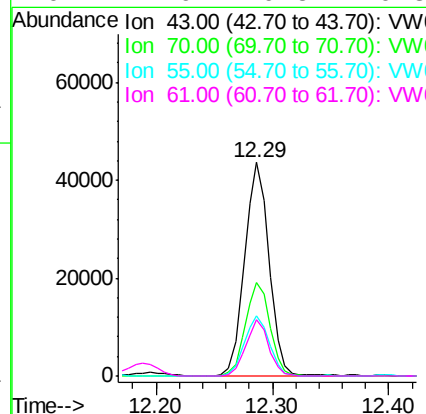
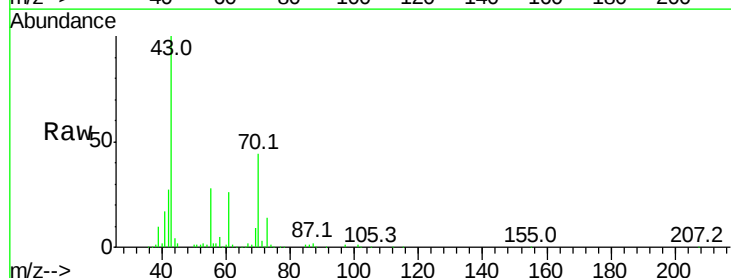
Instrument :  
MSVOA\_W  
ClientSampleId :

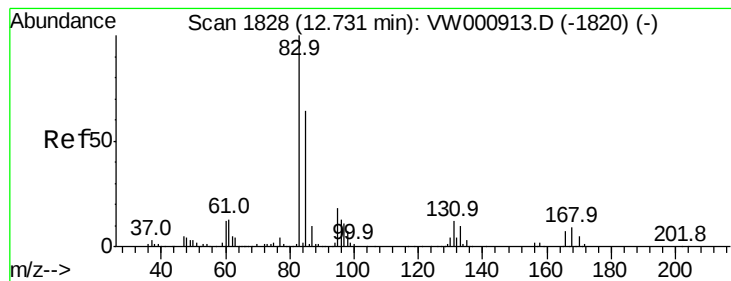
Tot Ion:105 Resp: 275364  
Ion Ratio Lower Upper  
105 100  
120 26.8 13.3 39.9



#74  
N-ethyl acetate  
Concen: 19.242 ug/l  
RT: 12.29 min Scan# 1755  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 43 Resp: 63993  
Ion Ratio Lower Upper  
43 100  
70 43.9 35.8 53.8  
55 28.6 21.4 32.2  
61 24.9 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 19.143 ug/l

RT: 12.73 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampled :

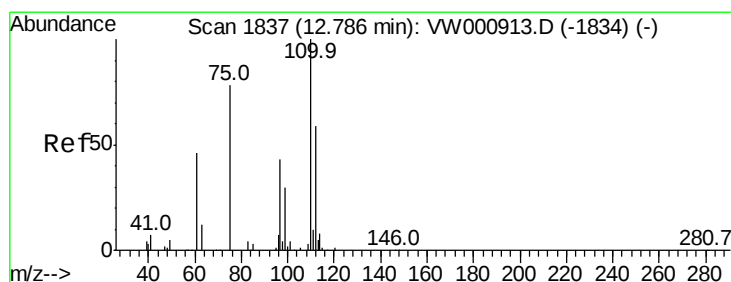
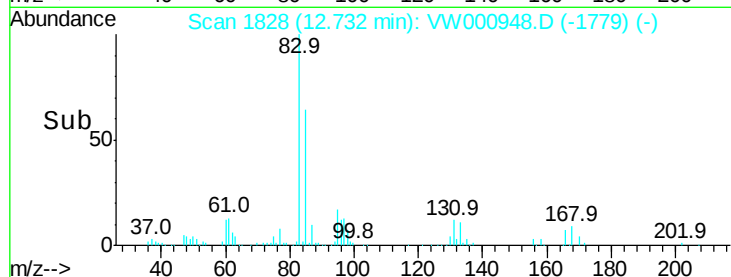
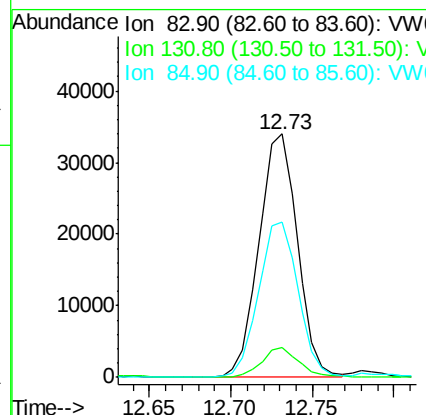
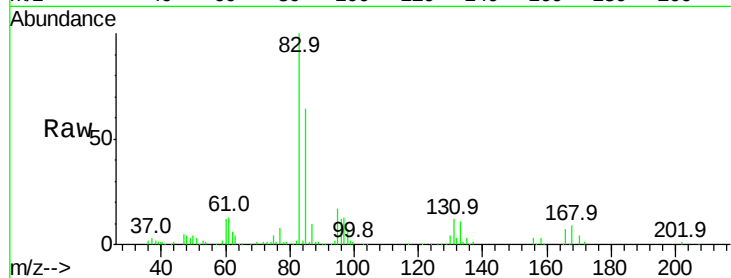
Tot Ion: 83 Resp: 56036

Ion Ratio Lower Upper

83 100

131 12.0 5.9 17.7

85 65.7 32.6 97.7



#76

1,2,3-Trichloropropane

Concen: 31.059 ug/l

RT: 12.78 min Scan# 1836

Delta R.T. -0.01 min

Lab File: VW000948.D

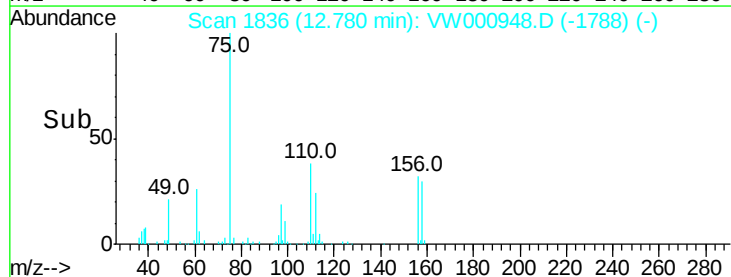
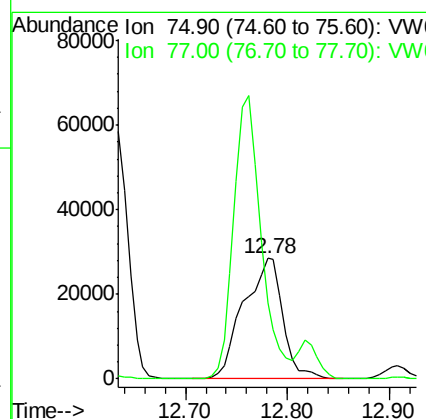
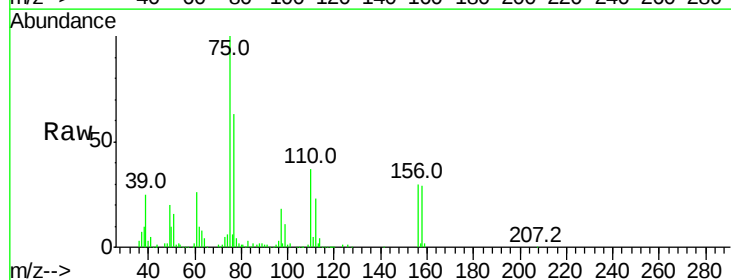
Acq: 24 Jan 2018 15:16

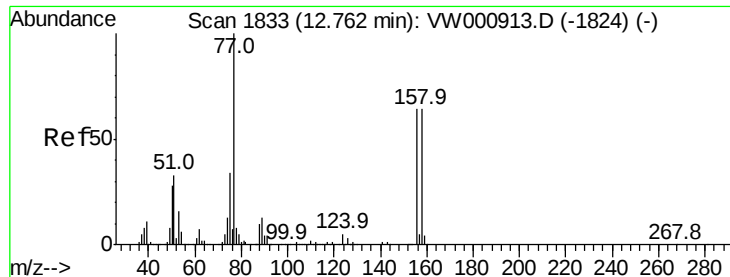
Tgt Ion: 75 Resp: 76179

Ion Ratio Lower Upper

75 100

77 165.5 0.0 0.0#





#77

Bromobenzene

Concen: 20.824 ug/l

RT: 12.76 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

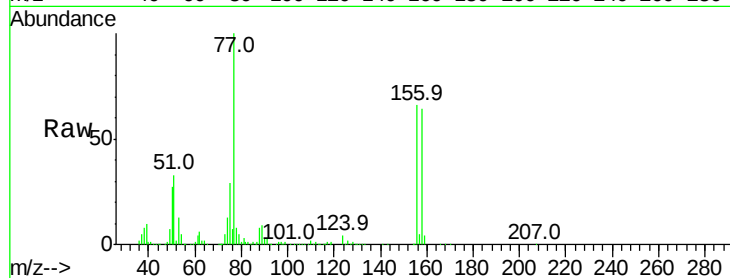
Instrument :

MSVOA\_W

ClientSampled :

Tot Ion:156 Resp: 72562

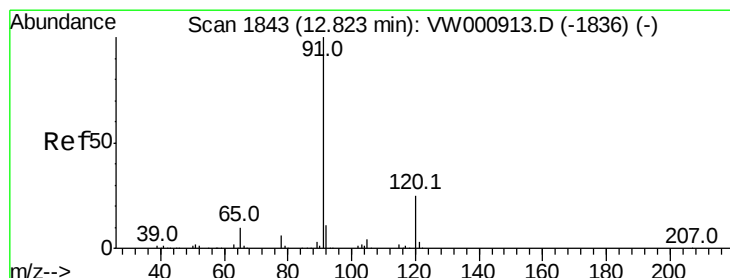
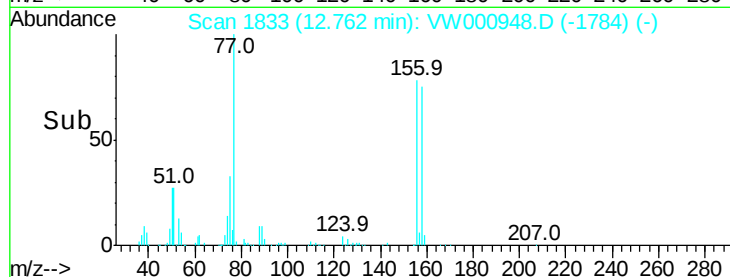
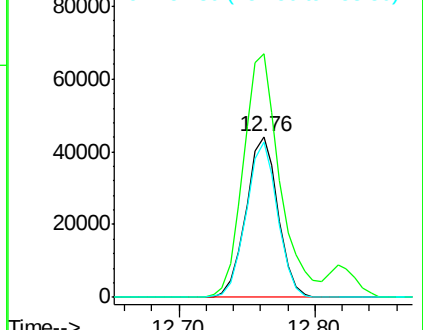
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 156 | 100   |       |       |
| 77  | 173.8 | 89.0  | 267.1 |
| 158 | 95.1  | 48.9  | 146.8 |



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.494 ug/l

RT: 12.82 min Scan# 1842

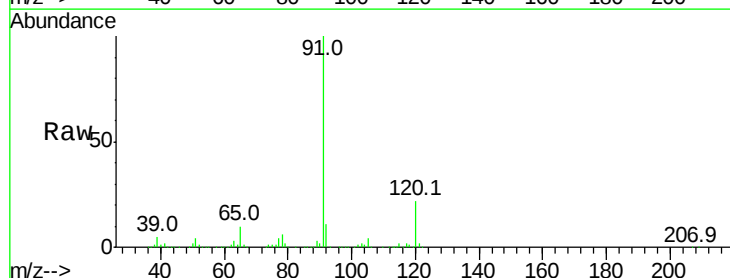
Delta R.T. -0.01 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

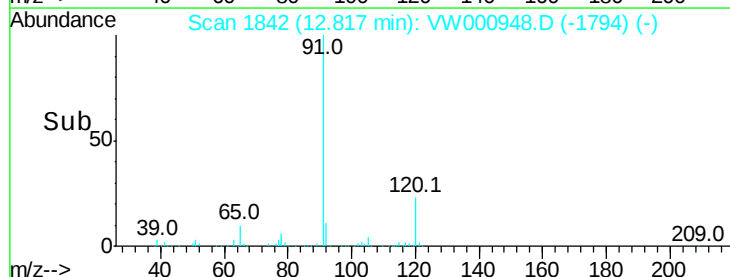
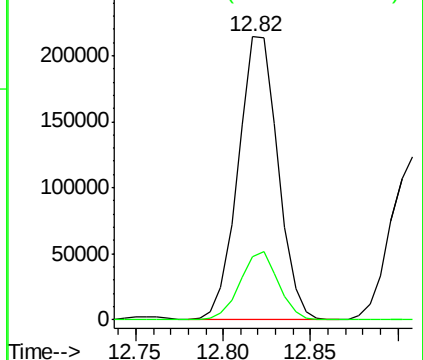
Tgt Ion: 91 Resp: 338634

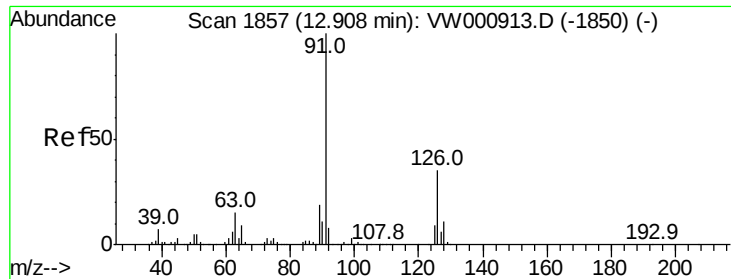
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 120 | 23.4  | 12.0  | 36.1  |



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

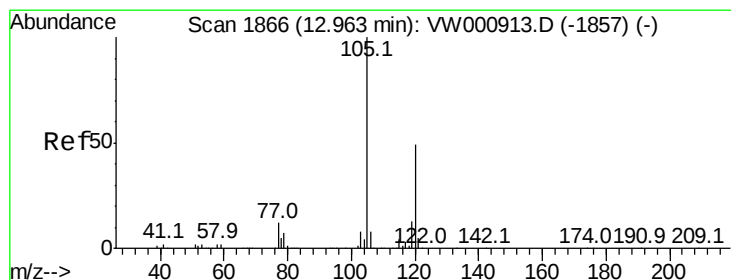
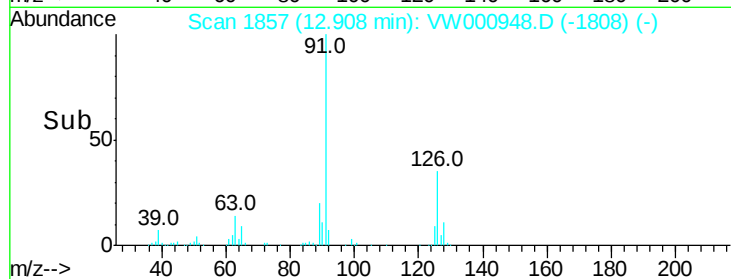
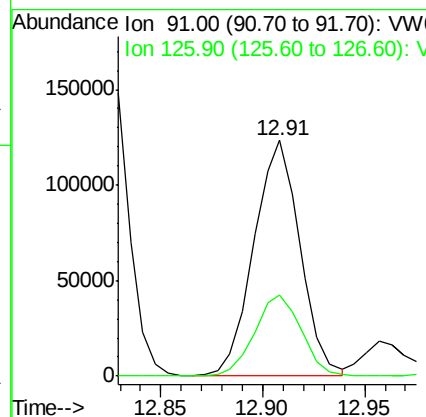
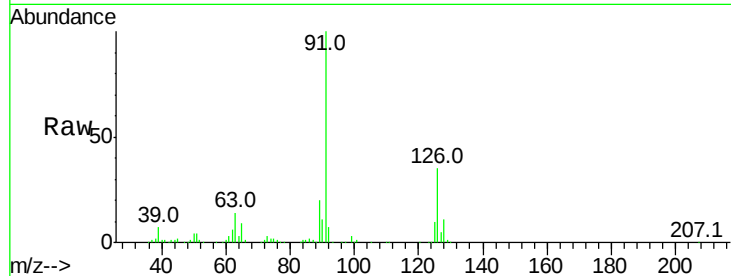




#79  
 2-Chlorotoluene  
 Concen: 20.786 ug/l  
 RT: 12.91 min Scan# 1857  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

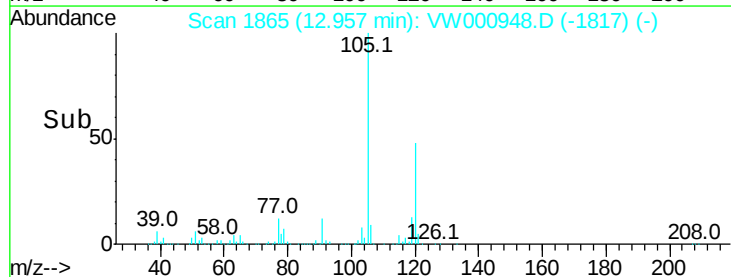
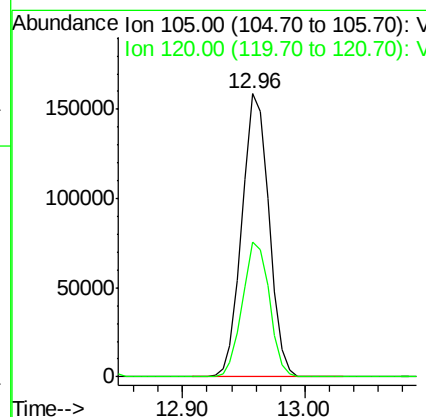
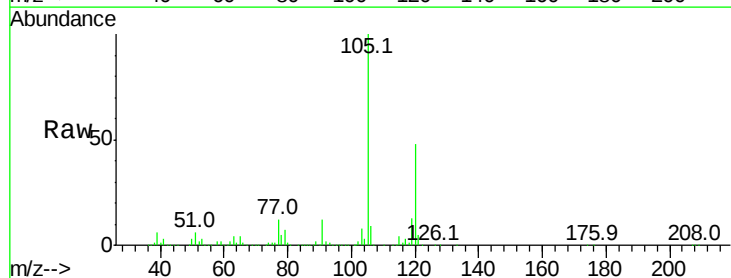
Instrument :  
 MSVOA\_W  
 ClientSampled :

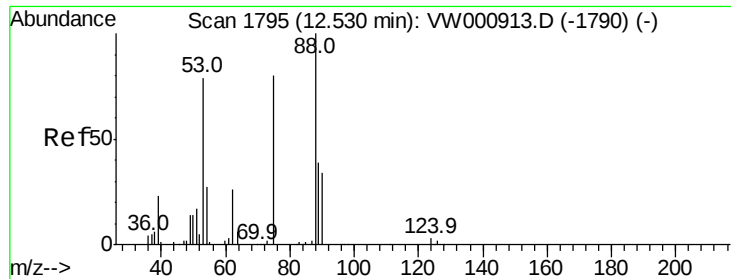
Tot Ion: 91 Resp: 193762  
 Ion Ratio Lower Upper  
 91 100  
 126 35.1 17.6 52.8



#80  
 1,3,5-Trimethylbenzene  
 Concen: 20.871 ug/l  
 RT: 12.96 min Scan# 1865  
 Delta R.T. -0.01 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

Tgt Ion: 105 Resp: 243174  
 Ion Ratio Lower Upper  
 105 100  
 120 47.7 24.3 72.9

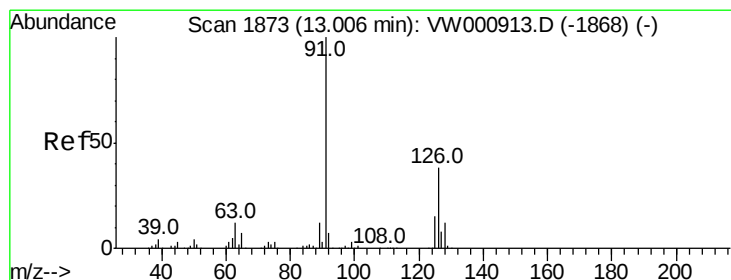
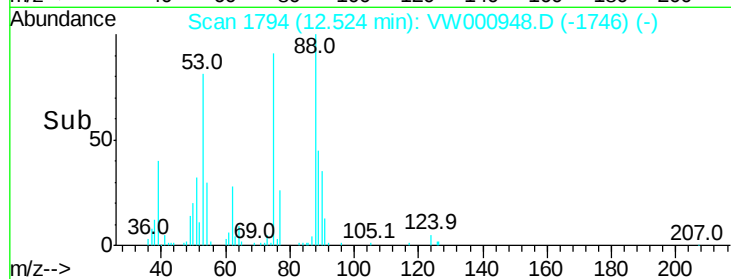
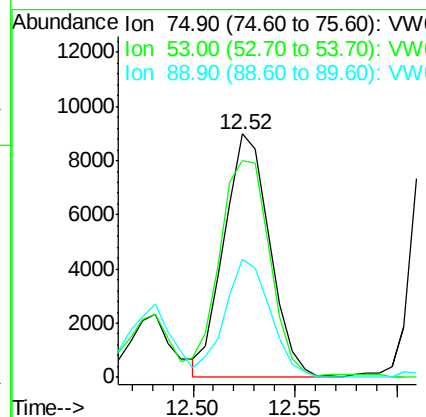
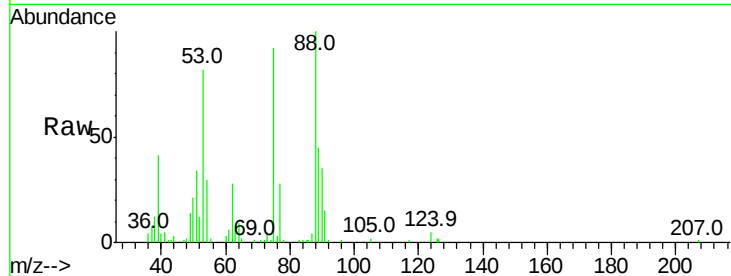




#81  
trans-1,4-Dichloro-2-butene  
Concen: 17.525 ug/l  
RT: 12.52 min Scan# 1794  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

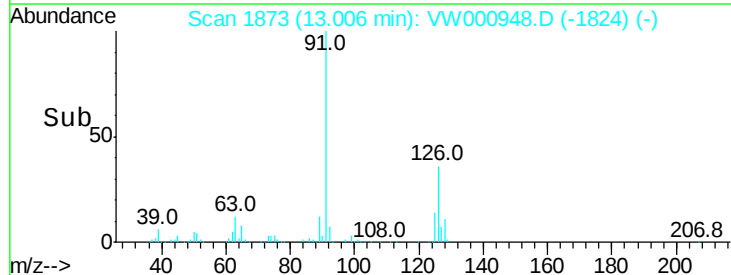
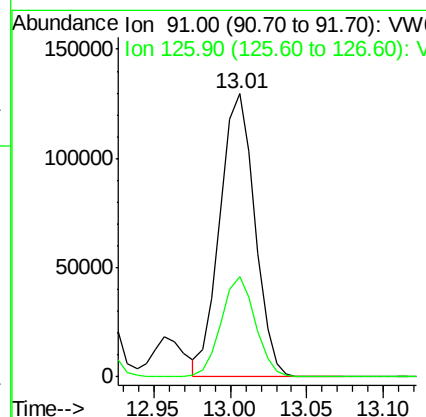
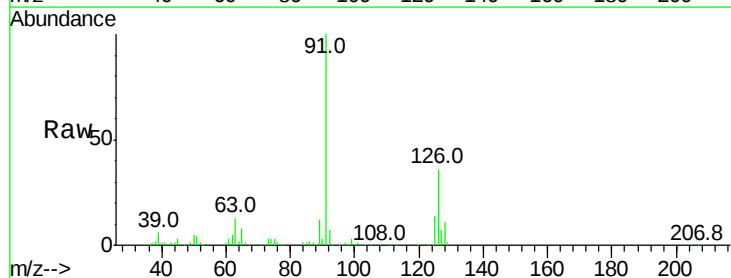
Instrument :  
MSVOA\_W  
ClientSampleId :

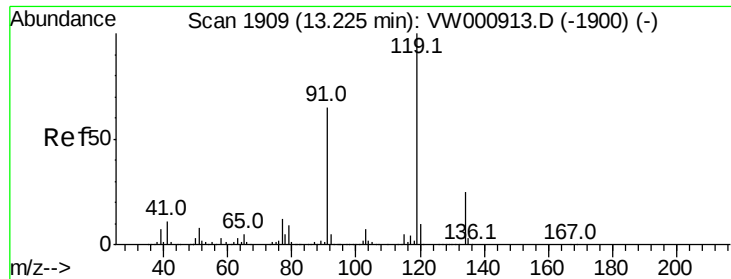
Tot Ion: 75 Resp: 13972  
Ion Ratio Lower Upper  
75 100  
53 96.8 77.5 116.3  
89 48.5 38.2 57.4



#82  
4-Chlorotoluene  
Concen: 20.835 ug/l  
RT: 13.01 min Scan# 1873  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 91 Resp: 206331  
Ion Ratio Lower Upper  
91 100  
126 34.6 17.6 52.9

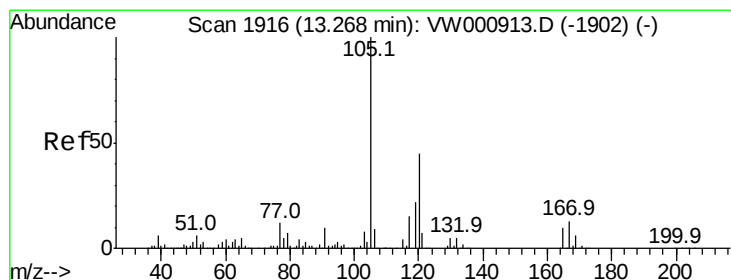
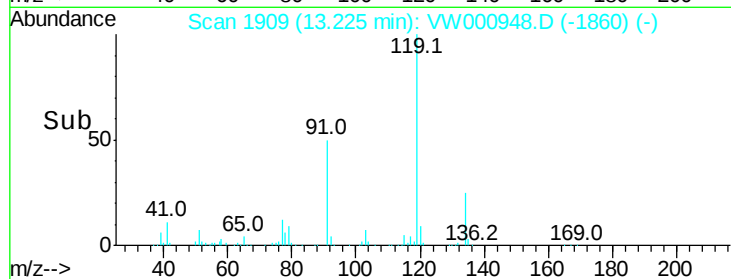
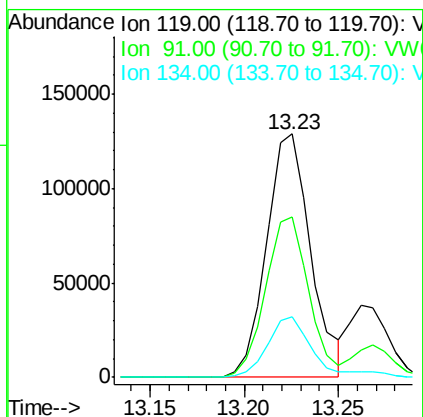
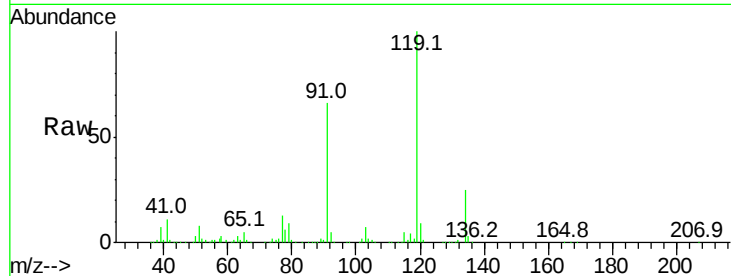




#83  
tert-Butylbenzene  
Concen: 20.581 ug/l  
RT: 13.23 min Scan# 1909  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

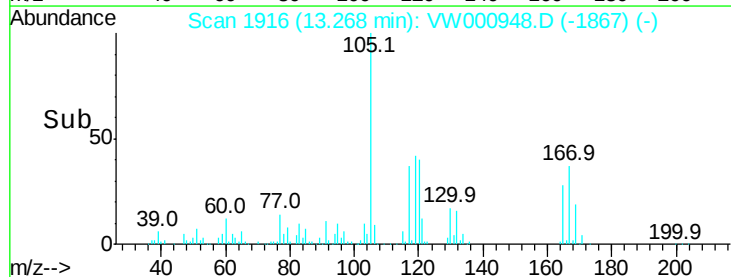
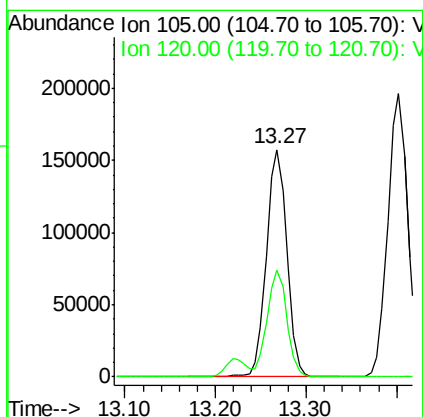
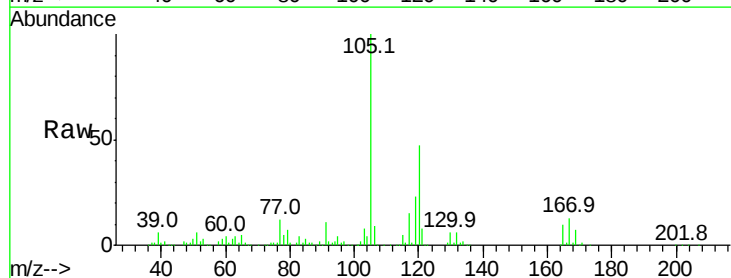
Instrument :  
MSVOA\_W  
ClientSampled :

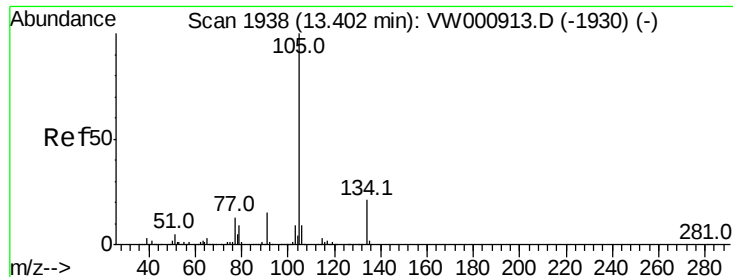
Tot Ion:119 Resp: 210129  
Ion Ratio Lower Upper  
119 100  
91 64.4 32.4 97.0  
134 25.6 13.1 39.3



#84  
1,2,4-Trimethylbenzene  
Concen: 20.934 ug/l  
RT: 13.27 min Scan# 1916  
Delta R.T. 0.00 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion:105 Resp: 246662  
Ion Ratio Lower Upper  
105 100  
120 45.8 22.4 67.0

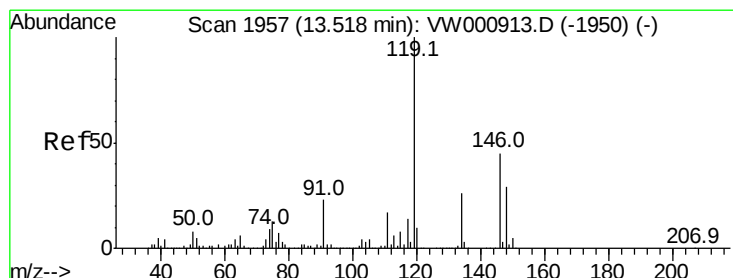
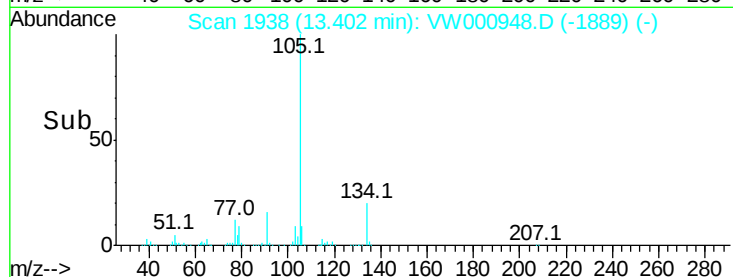
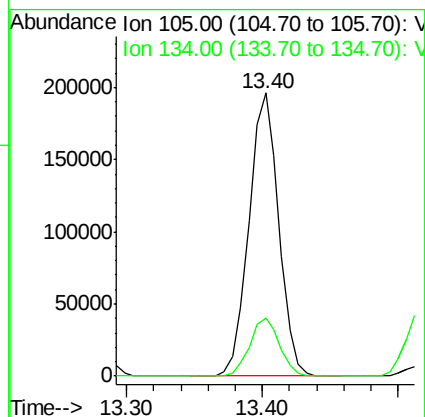
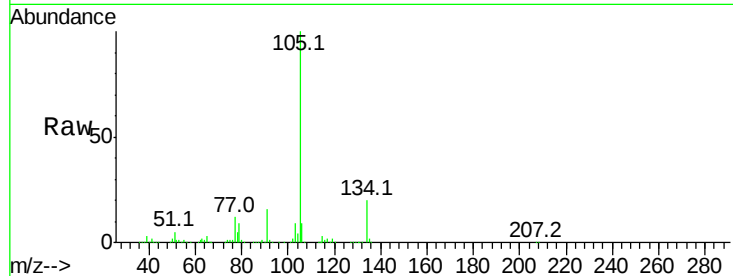




#85  
 sec-Butylbenzene  
 Concen: 20.354 ug/l  
 RT: 13.40 min Scan# 1938  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

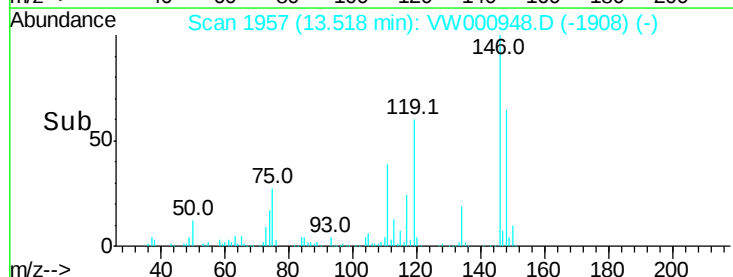
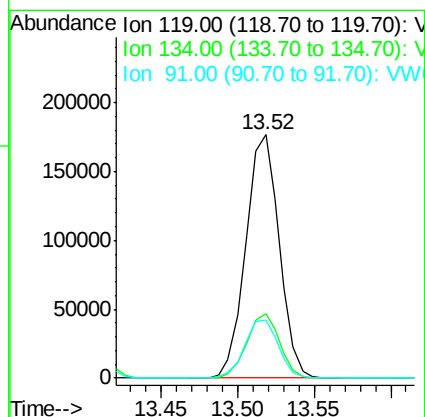
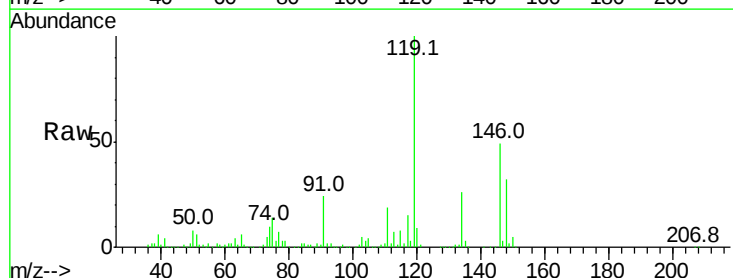
Instrument :  
 MSVOA\_W  
 ClientSampled :

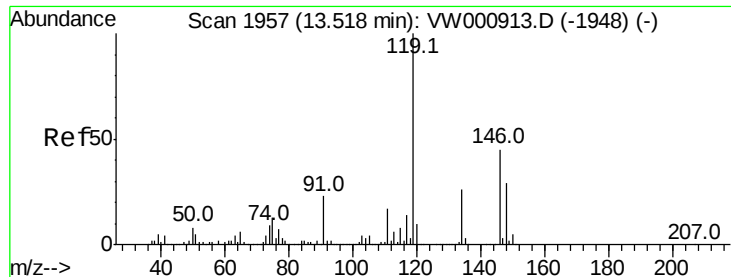
Tot Ion:105 Resp: 299871  
 Ion Ratio Lower Upper  
 105 100  
 134 20.4 10.3 30.9



#86  
 p-Isopropyltoluene  
 Concen: 20.497 ug/l  
 RT: 13.52 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

Tgt Ion:119 Resp: 267851  
 Ion Ratio Lower Upper  
 119 100  
 134 26.0 13.2 39.6  
 91 23.9 11.7 35.0



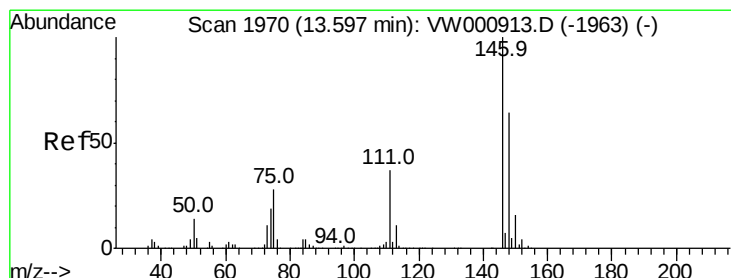
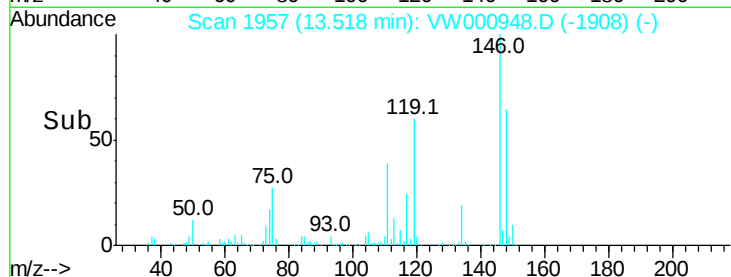
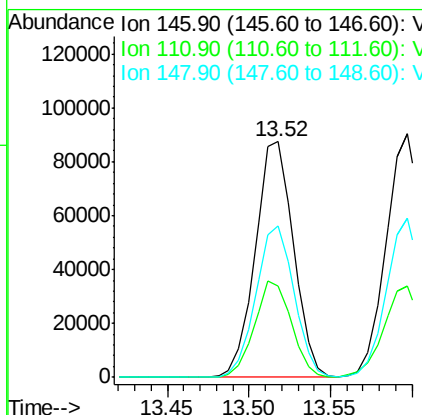
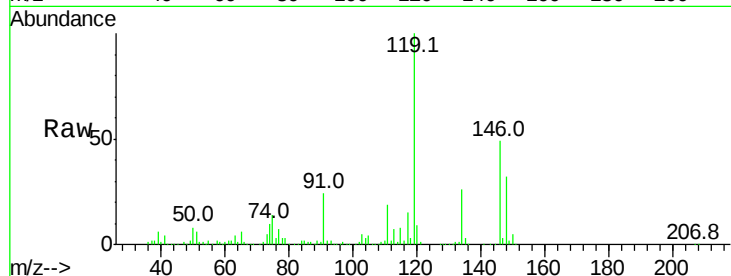


#87  
 1,3-Dichlorobenzene  
 Concen: 20.543 ug/l  
 RT: 13.52 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion:146 Resp: 141987  

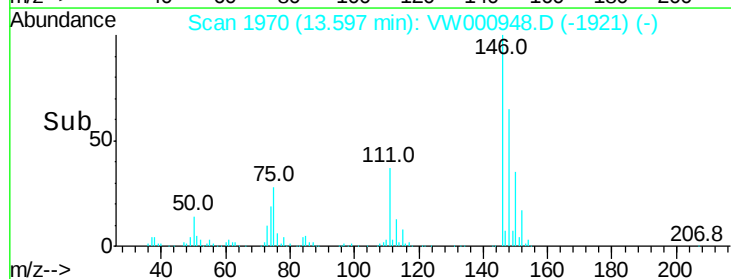
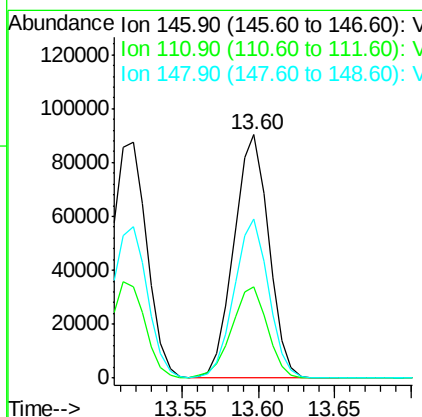
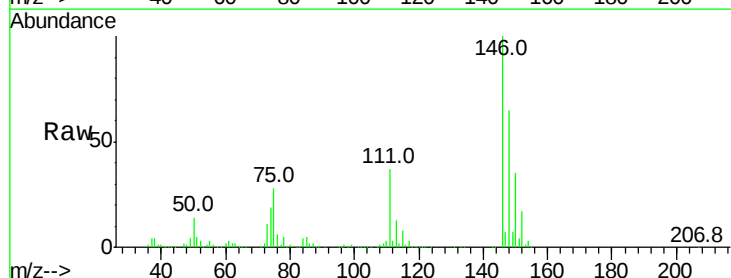
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 39.6  | 19.7  | 59.0  |
| 148 | 64.3  | 32.4  | 97.0  |

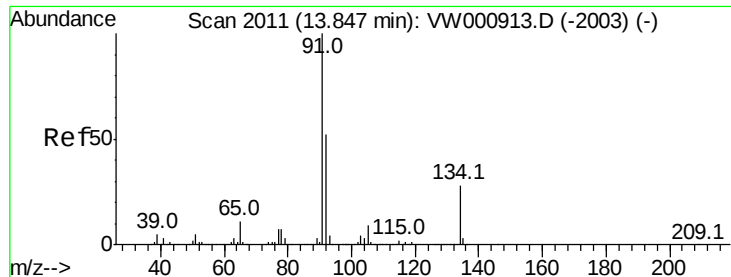


#88  
 1,4-Dichlorobenzene  
 Concen: 20.682 ug/l  
 RT: 13.60 min Scan# 1970  
 Delta R.T. 0.00 min  
 Lab File: VW000948.D  
 Acq: 24 Jan 2018 15:16

Tgt Ion:146 Resp: 142937  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 38.8  | 19.0  | 57.0  |
| 148 | 64.4  | 32.4  | 97.2  |

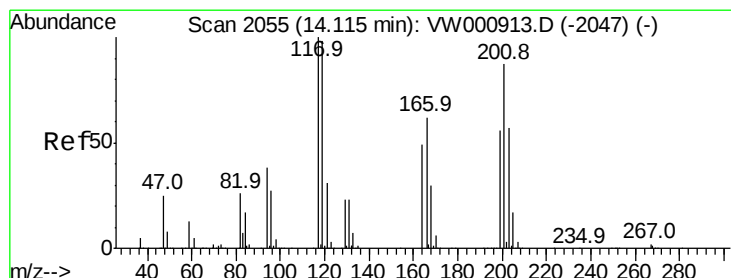
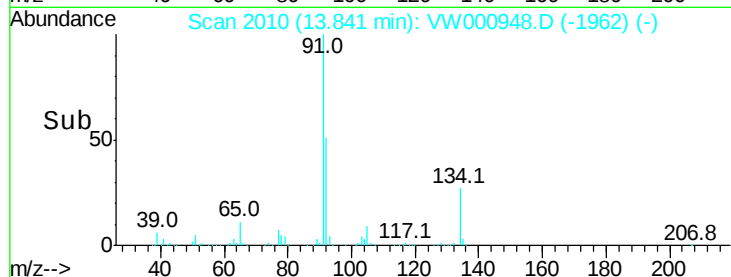
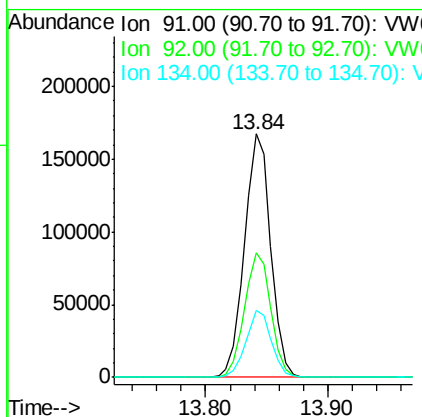
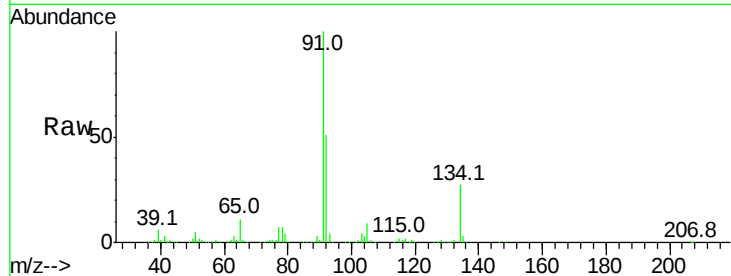




#89  
n-Butylbenzene  
Concen: 20.288 ug/l  
RT: 13.84 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

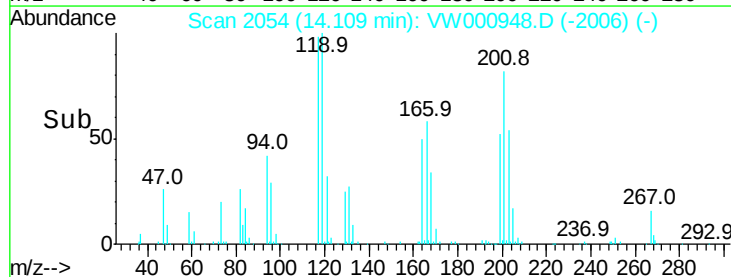
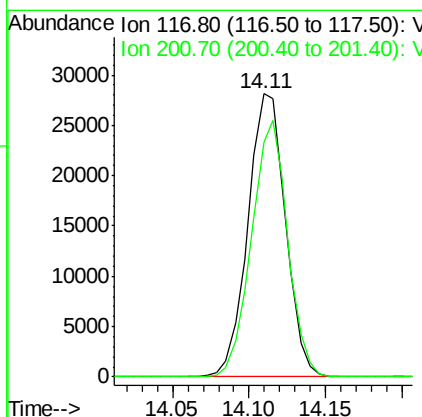
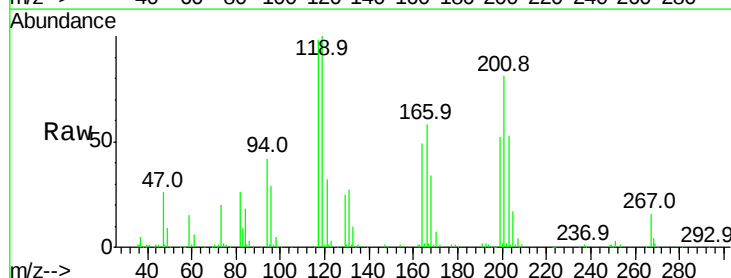
Instrument :  
MSVOA\_W  
ClientSampled :

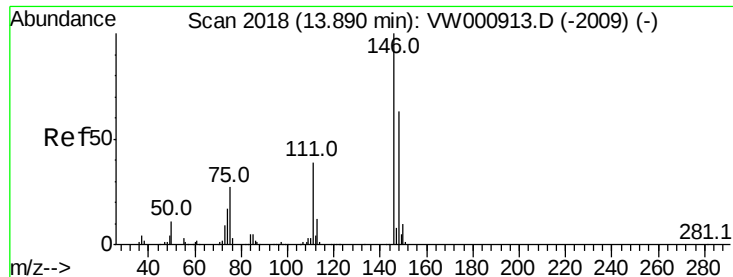
Tot Ion: 91 Resp: 249047  
Ion Ratio Lower Upper  
91 100  
92 51.3 26.2 78.6  
134 26.8 13.7 41.1



#90  
Hexachloroethane  
Concen: 19.763 ug/l  
RT: 14.11 min Scan# 2054  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion: 117 Resp: 48005  
Ion Ratio Lower Upper  
117 100  
201 87.1 42.8 128.3





#91

1,2-Dichlorobenzene

Concen: 21.014 ug/l

RT: 13.89 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampleId :

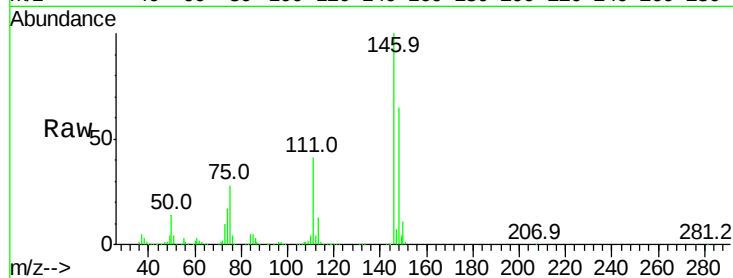
Tot Ion:146 Resp: 130826

Ion Ratio Lower Upper

146 100

111 40.5 19.8 59.4

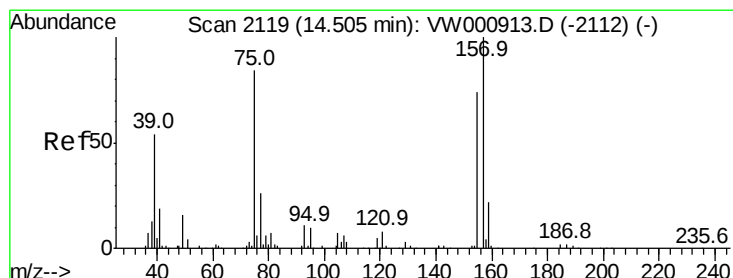
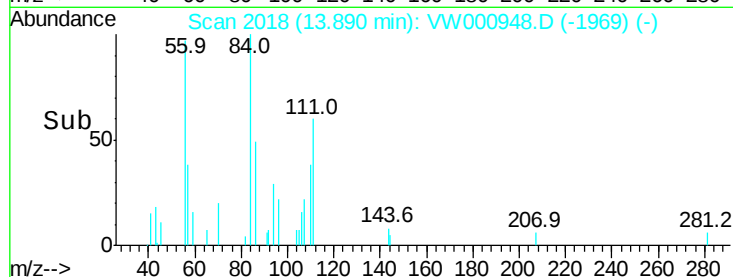
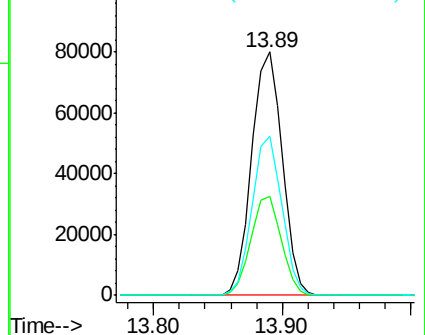
148 63.8 31.8 95.3



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: 17.310 ug/l

RT: 14.51 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

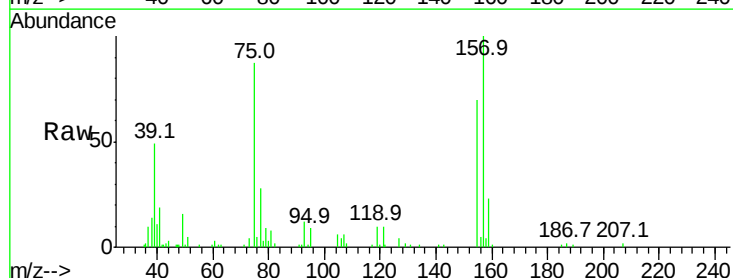
Tgt Ion: 75 Resp: 11183

Ion Ratio Lower Upper

75 100

155 89.9 45.9 137.6

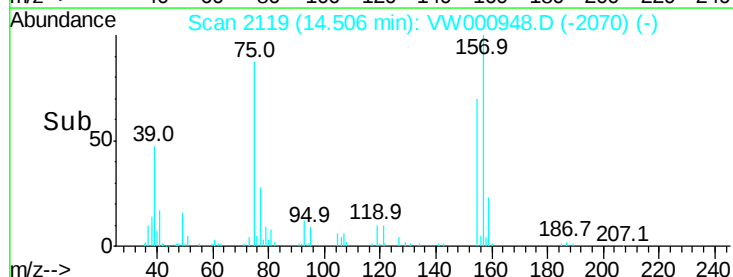
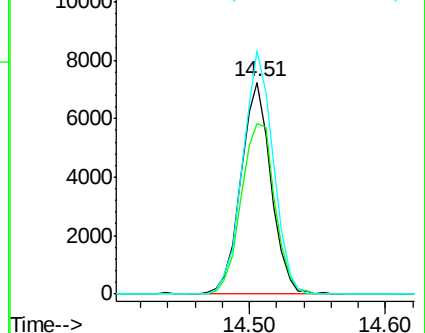
157 116.0 59.8 179.3

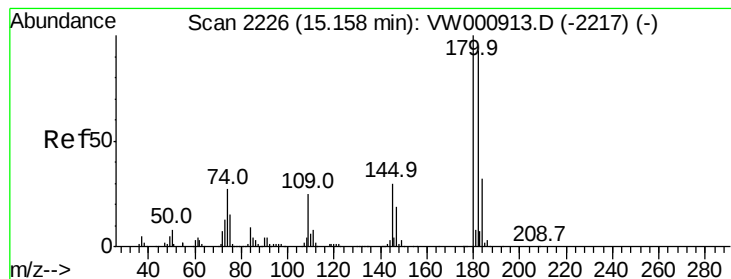


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 21.186 ug/l

RT: 15.16 min Scan# 2226

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

Instrument :

MSVOA\_W

ClientSampleId :

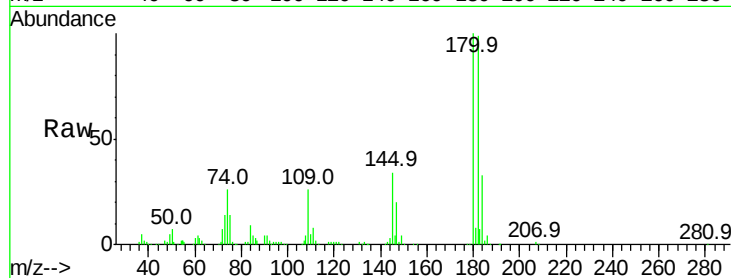
Tot Ion:180 Resp: 98301

Ion Ratio Lower Upper

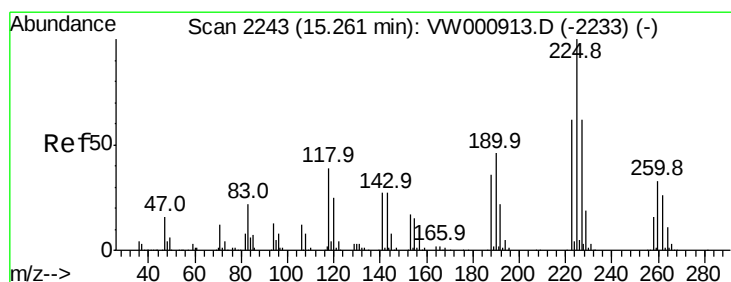
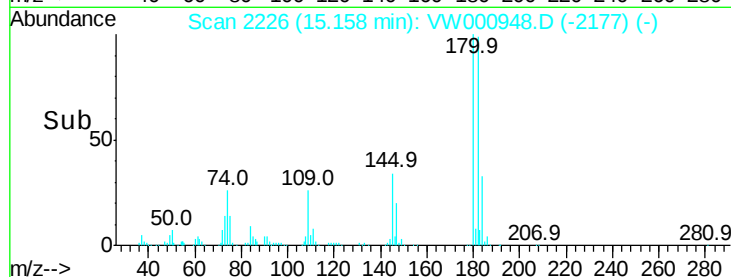
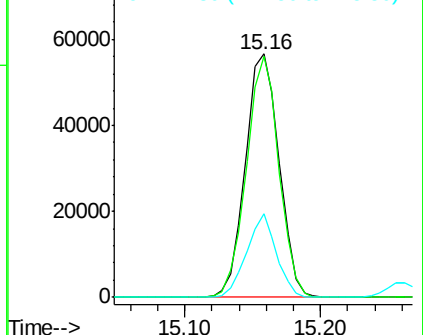
180 100

182 95.3 47.5 142.6

145 30.5 14.9 44.7



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: 20.298 ug/l

RT: 15.26 min Scan# 2243

Delta R.T. 0.00 min

Lab File: VW000948.D

Acq: 24 Jan 2018 15:16

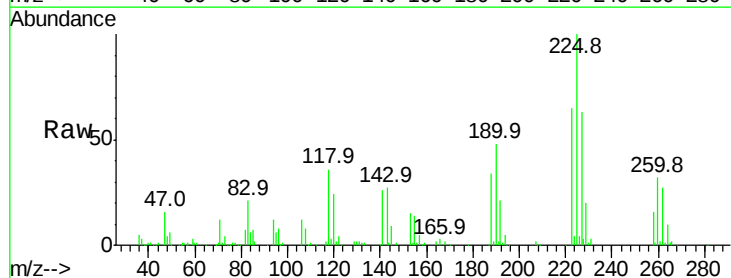
Tgt Ion:225 Resp: 59702

Ion Ratio Lower Upper

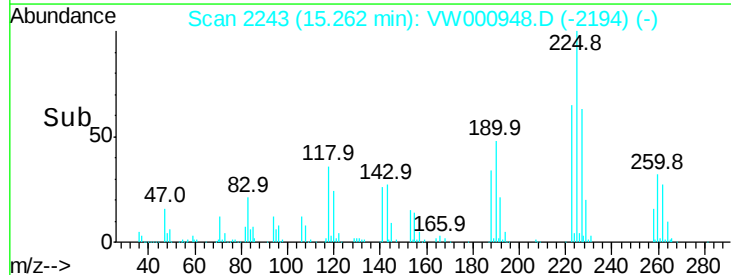
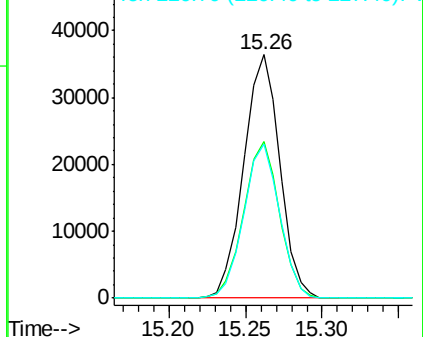
225 100

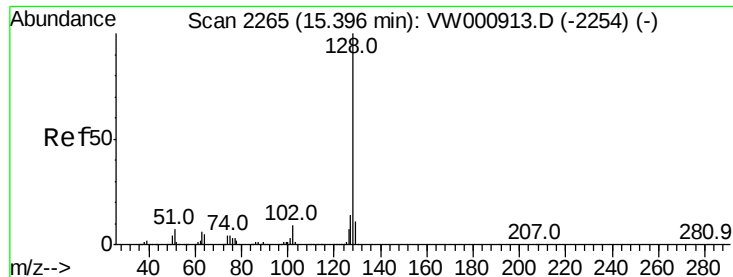
223 64.0 31.3 93.8

227 63.0 31.8 95.3



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

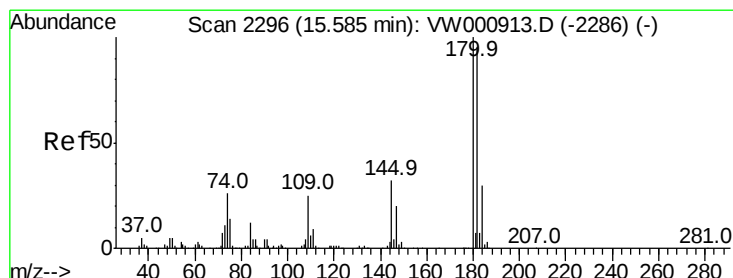
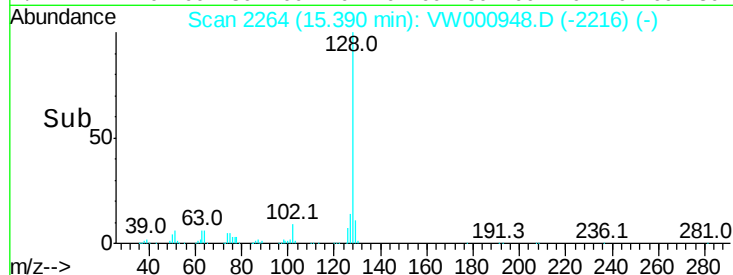
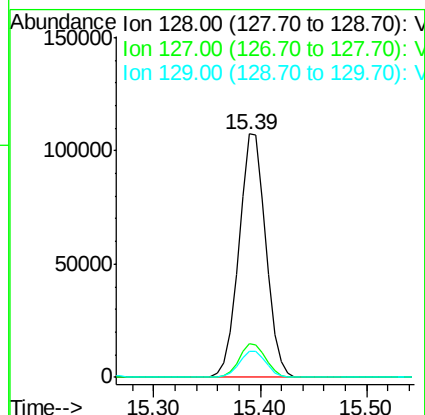
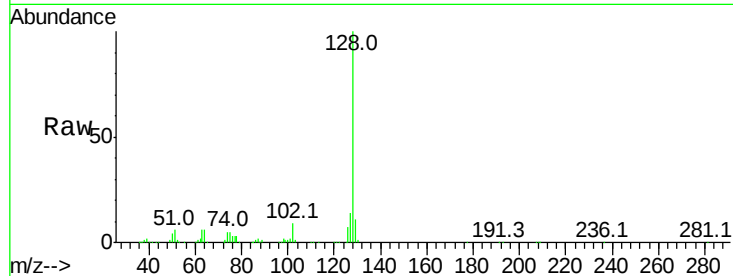




#95  
Naphthalene  
Concen: 19.475 ug/l  
RT: 15.39 min Scan# 2264  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:128 Resp: 190734  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.6 15.8  
129 10.7 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 21.441 ug/l  
RT: 15.58 min Scan# 2295  
Delta R.T. -0.01 min  
Lab File: VW000948.D  
Acq: 24 Jan 2018 15:16

Tgt Ion:180 Resp: 91517  
Ion Ratio Lower Upper  
180 100  
182 94.5 47.4 142.3  
145 31.7 15.8 47.3

