

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
 Data File : VW004332.D  
 Acq On : 30 Jul 2018 00:42  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 30 04:36:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 02:37:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 265091   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 416371   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 378545   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 198292   | 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   | 146229   | 54.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.36% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 135198   | 51.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.76% |          |
| 50) Toluene-d8              | 10.33 | 98   | 535907   | 51.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.06% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 189333   | 51.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.42% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 44218    | 45.855  | ug/l  | 95     |
| 3) Chloromethane              | 2.21 | 50   | 52511    | 40.163  | ug/l  | 97     |
| 4) Vinyl Chloride             | 2.36 | 62   | 93747    | 42.364  | ug/l  | 99     |
| 5) Bromomethane               | 2.77 | 94   | 78744    | 53.321  | ug/l  | 93     |
| 6) Chloroethane               | 2.92 | 64   | 73691    | 50.451  | ug/l  | 96     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 61002    | 41.387  | ug/l  | 96     |
| 8) Diethyl Ether              | 3.67 | 74   | 80048    | 76.025  | ug/l  | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 129142   | 52.131  | ug/l  | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 209214   | 54.299  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.18 | 59   | 55448    | 315.973 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 134685   | 53.282  | ug/l  | 97     |
| 13) Acrolein                  | 3.88 | 56   | 58099    | 354.301 | ug/l  | 98     |
| 14) Allyl chloride            | 4.65 | 41   | 228332   | 53.195  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 174025   | 292.982 | ug/l  | 100    |
| 16) Acetone                   | 4.12 | 43   | 149884   | 234.551 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.37 | 76   | 433970   | 54.003  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 92015    | 61.655  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 270602   | 57.475  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.90 | 84   | 145641   | 57.089  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 147815   | 54.653  | ug/l  | 96     |
| 22) Diisopropyl ether         | 6.31 | 45   | 468765   | 58.399  | ug/l  | 99     |
| 23) Vinyl Acetate             | 6.25 | 43   | 1342030  | 288.179 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 271657   | 55.502  | ug/l  | 100    |
| 25) 2-Butanone                | 7.17 | 43   | 229594   | 309.149 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 133959   | 44.666  | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 161808   | 56.197  | ug/l  | 96     |
| 28) Bromochloromethane        | 7.51 | 49   | 95318    | 52.611  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.53 | 42   | 155375   | 302.582 | ug/l  | 99     |
| 30) Chloroform                | 7.68 | 83   | 269188   | 54.516  | ug/l  | 97     |
| 31) Cyclohexane               | 7.96 | 56   | 238510   | 52.249  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 212065   | 52.293  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 215869   | 51.825  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 101714   | 59.590  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 205014   | 49.846  | ug/l  | 96     |

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Quant Time: Jul 30 04:36:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 02:37:04 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 256512   | 51.106   | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 625368   | 53.369   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 56160    | 50.174   | ug/l   | 89       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 181358   | 54.137   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 192005   | 62.414   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 159351   | 50.372   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 159194   | 54.749   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 81341    | 54.784   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 201000   | 53.372   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 94001    | 59.998   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 29095    | 1292.627 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 516752   | 306.070  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 391425   | 53.205   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 203585   | 53.974   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 232148   | 52.793   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 115914   | 54.793   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 155438   | 60.718   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 199672   | 55.400   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 339982   | 298.962  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 357612   | 308.477  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 137148   | 54.181   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 109132   | 54.097   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 161258   | 58.145   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 410063   | 51.578   | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 147211   | 52.499   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 728637   | 52.577   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.85 | 106  | 554629   | 104.003  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 265369   | 53.856   | ug/l   | 95       |
| 70) Styrene                    | 12.19 | 104  | 447524   | 53.759   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 84809    | 53.967   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 731964   | 53.236   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 181609   | 55.026   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 137186   | 56.958   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 177639   | 98.159   | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 174854   | 52.633   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 901195   | 53.803   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 514206   | 53.672   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 611188   | 51.600   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 39123    | 50.303   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 551999   | 54.450   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 531711   | 53.884   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 631973   | 52.315   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 756347   | 52.474   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 687782   | 53.129   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 346782   | 52.150   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 338950   | 51.091   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 613368   | 50.740   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 122233   | 52.940   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 303593   | 51.006   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 23243    | 55.283   | ug/l   | 98       |

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ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

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Quant Title : SW846 8260  
QLast Update : Mon Jul 30 02:37:04 2018  
Response via : Initial Calibration

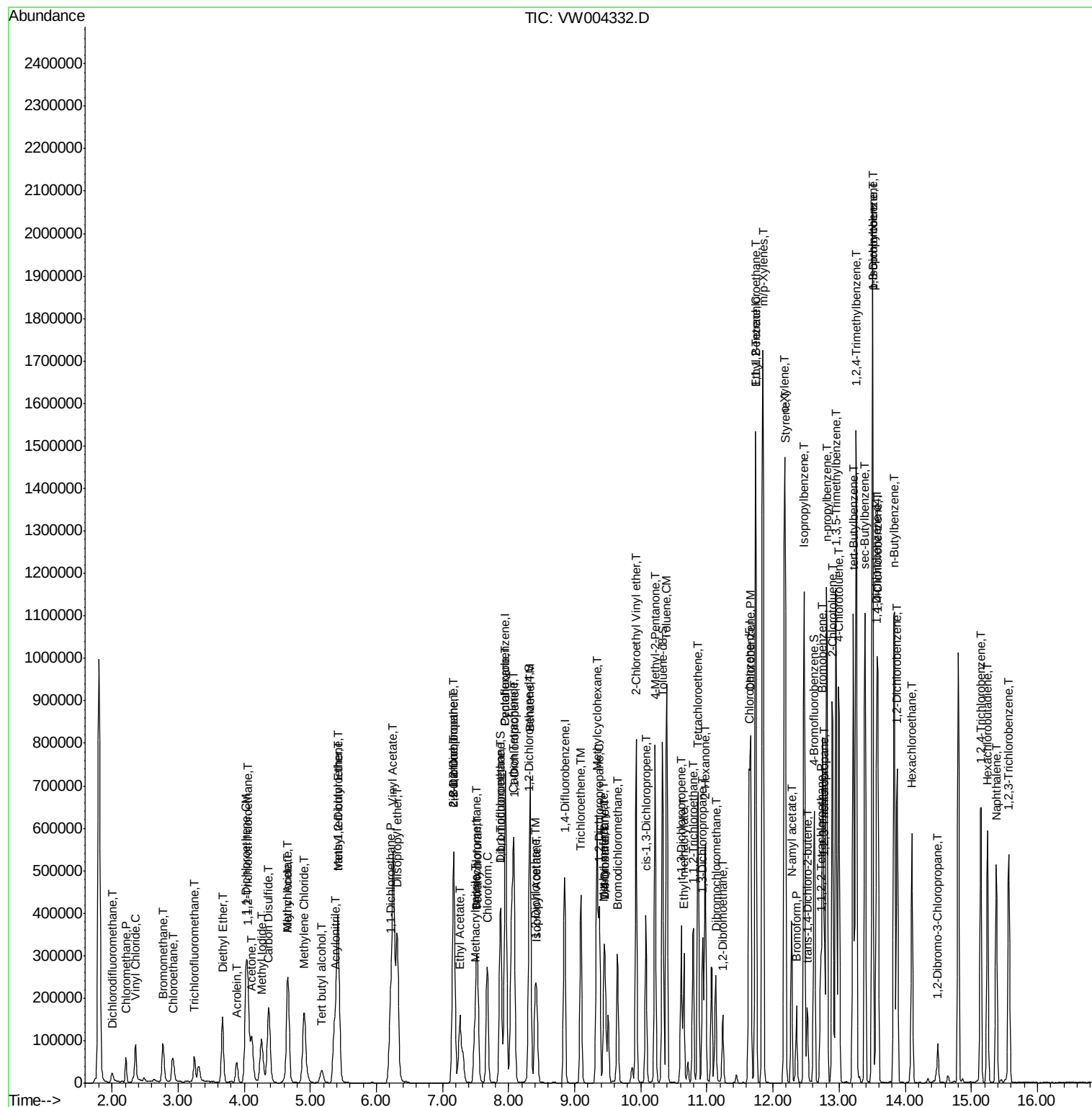
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 214291   | 51.275 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 118834   | 46.540 | ug/l  | 97       |
| 95) Naphthalene            | 15.38 | 128  | 425713   | 59.208 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 195289   | 53.401 | ug/l  | 98       |

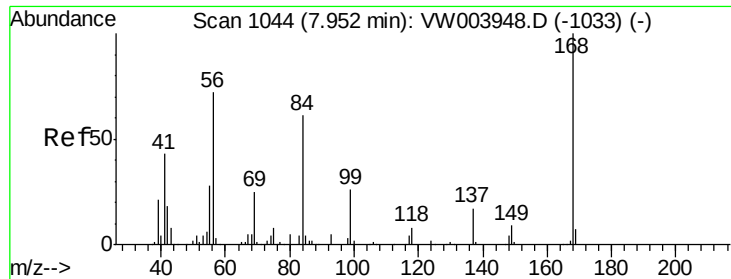
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

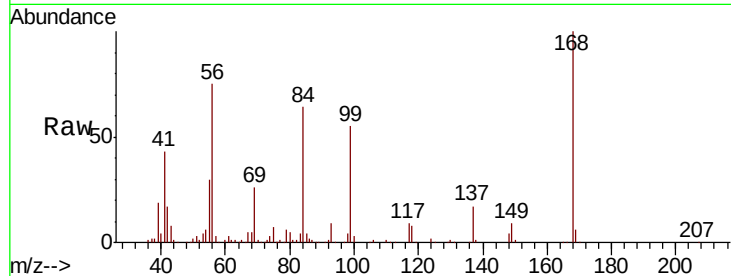
ClientSampleId :

Tot Ion:168 Resp: 265091

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

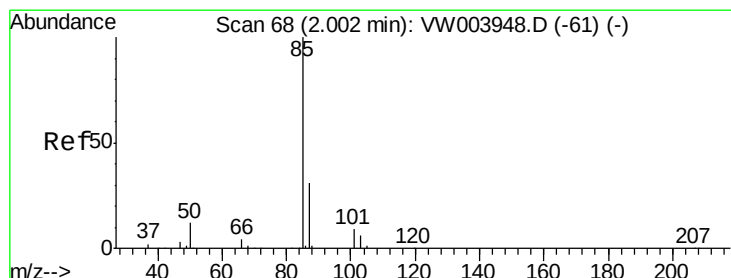
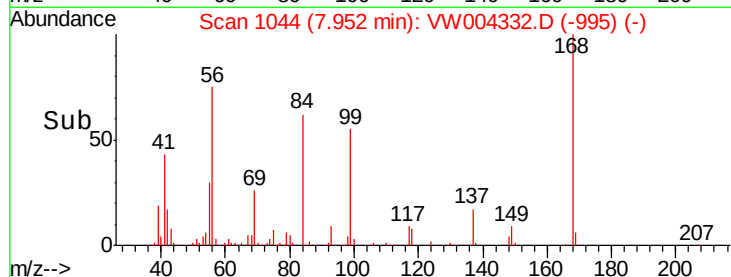
7.95

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.855 ug/l

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW004332.D

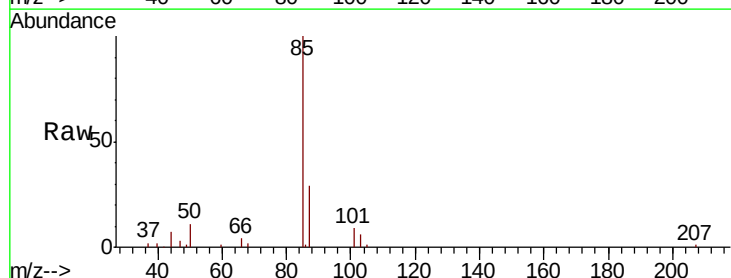
Acq: 30 Jul 2018 00:42

Tgt Ion: 85 Resp: 44218

Ion Ratio Lower Upper

85 100

87 28.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

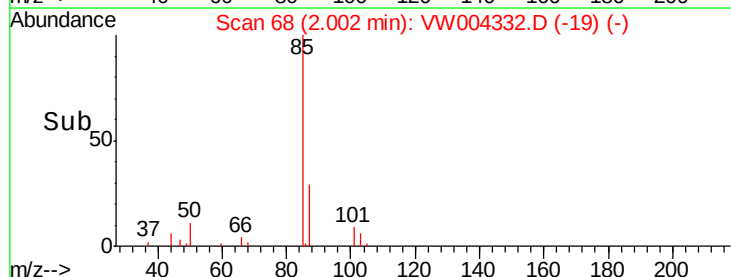
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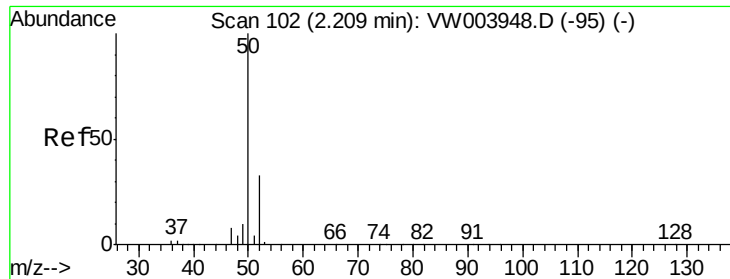
10000

5000

0

Time-->





#3

Chloromethane

Concen: 40.163 ug/l

RT: 2.21 min Scan# 102

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

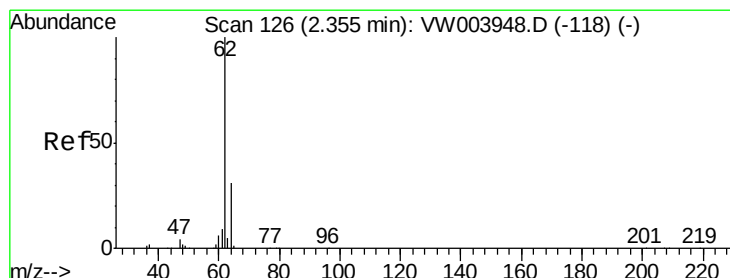
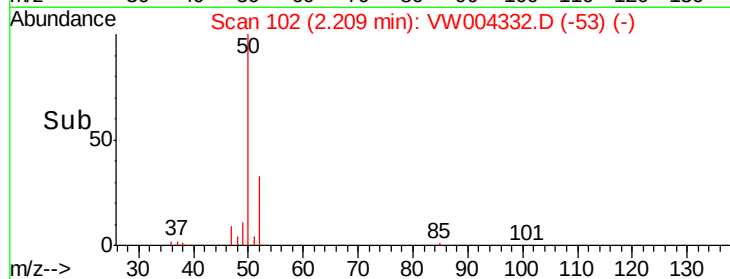
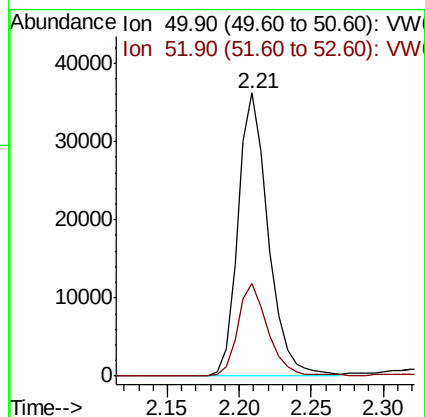
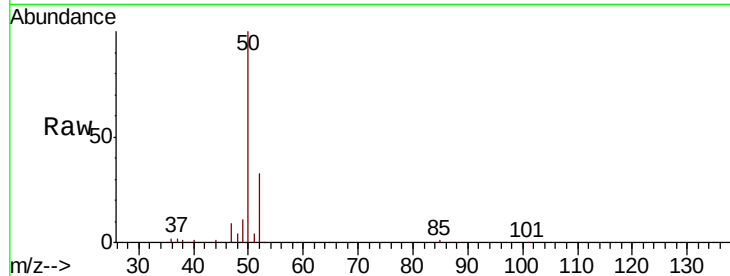
ClientSampled :

Tot Ion: 50 Resp: 52511

Ion Ratio Lower Upper

50 100

52 32.7 24.8 37.2



#4

Vinyl Chloride

Concen: 42.364 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW004332.D

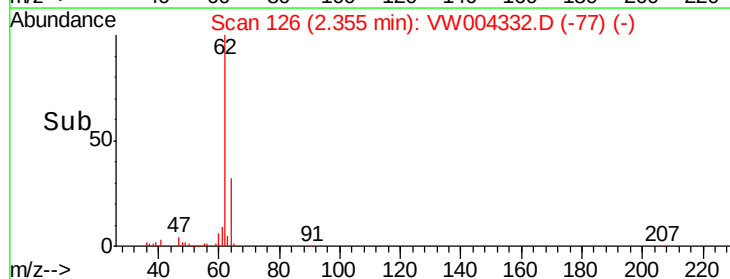
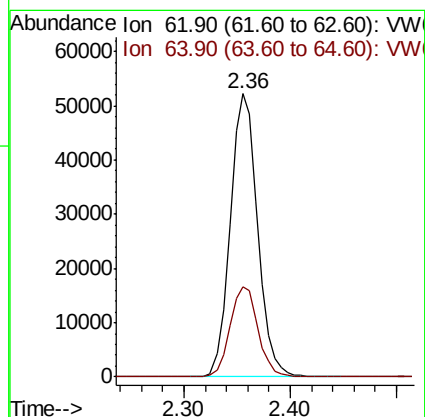
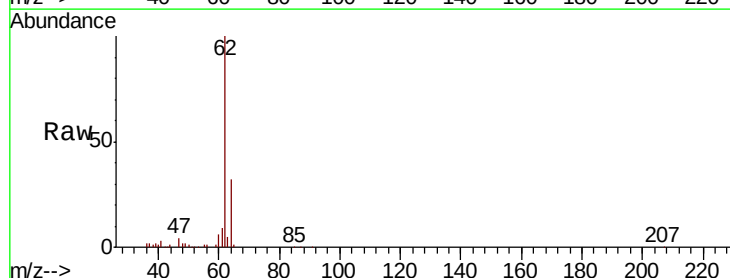
Acq: 30 Jul 2018 00:42

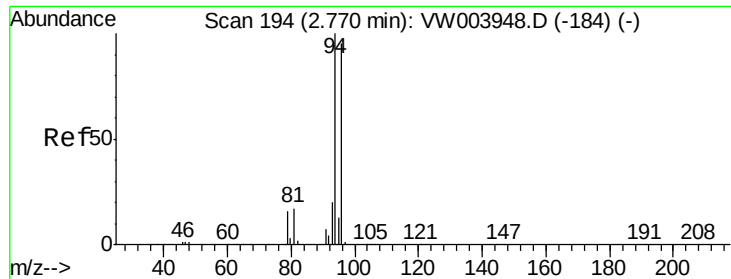
Tgt Ion: 62 Resp: 93747

Ion Ratio Lower Upper

62 100

64 31.8 25.9 38.9





#5

Bromomethane

Concen: 53.321 ug/l

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

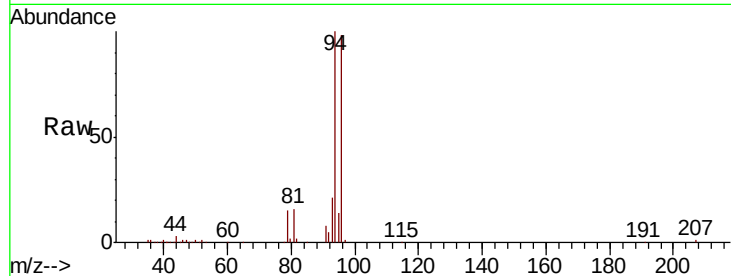
ClientSampleId :

Tot Ion: 94 Resp: 78744

Ion Ratio Lower Upper

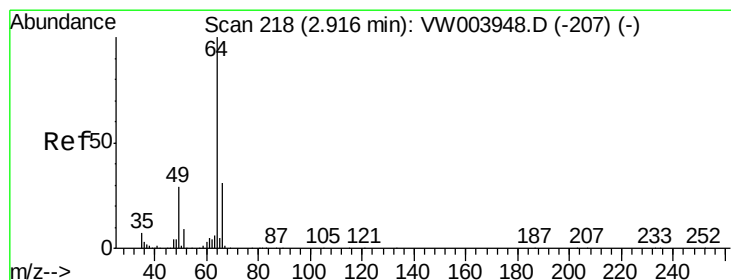
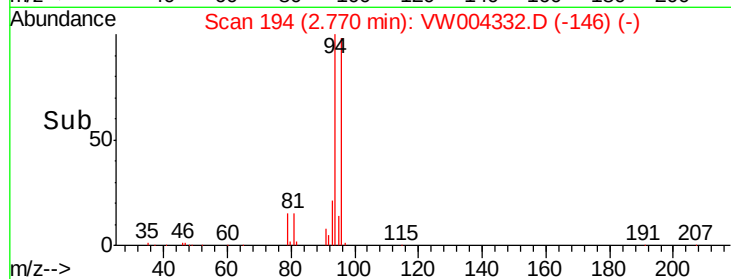
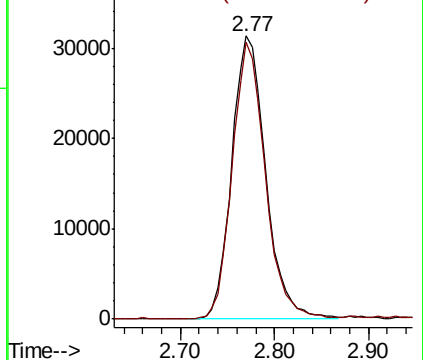
94 100

96 97.9 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 50.451 ug/l

RT: 2.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VW004332.D

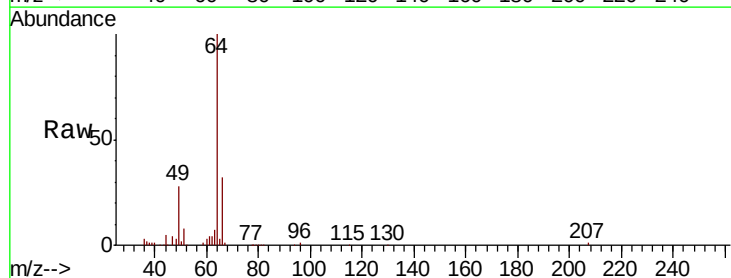
Acq: 30 Jul 2018 00:42

Tgt Ion: 64 Resp: 73691

Ion Ratio Lower Upper

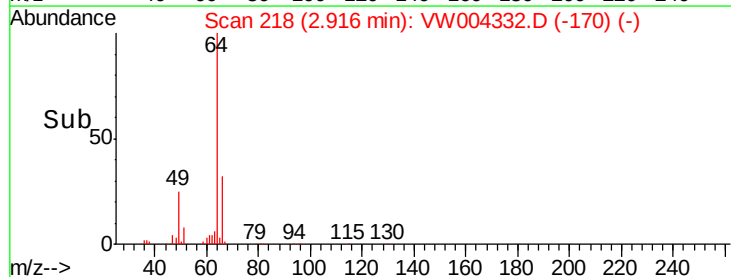
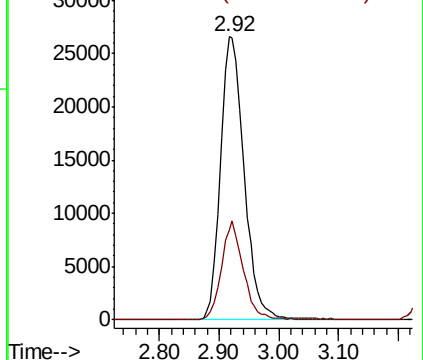
64 100

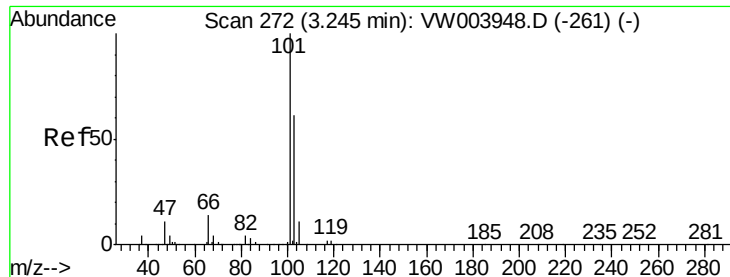
66 32.0 23.7 35.5



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



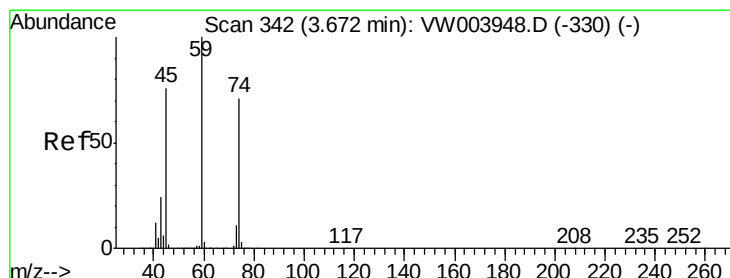
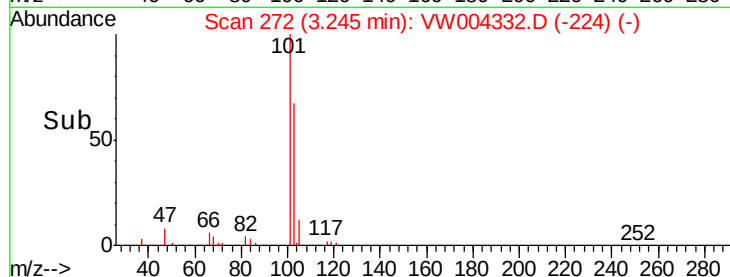
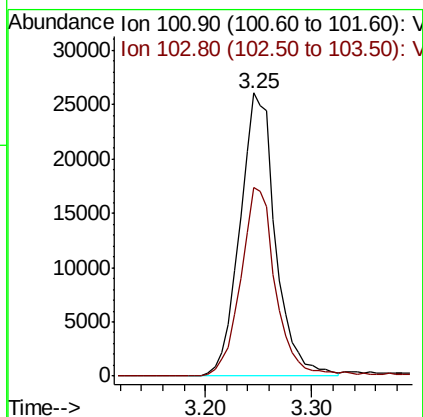
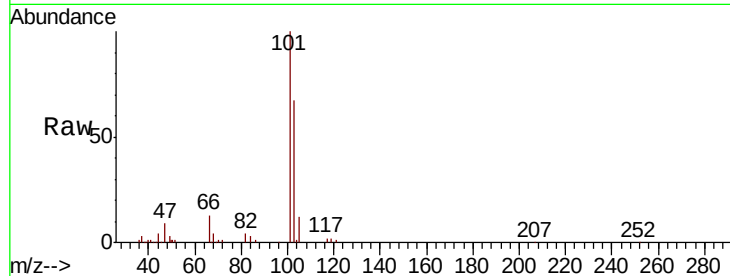


#7

Trichlorofluoromethane  
 Concen: 41.387 ug/l  
 RT: 3.25 min Scan# 272  
 Delta R.T. -0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Instrument :  
 MSVOA\_W  
 ClientSampled :

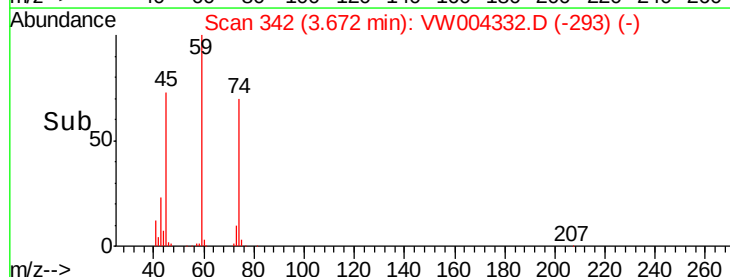
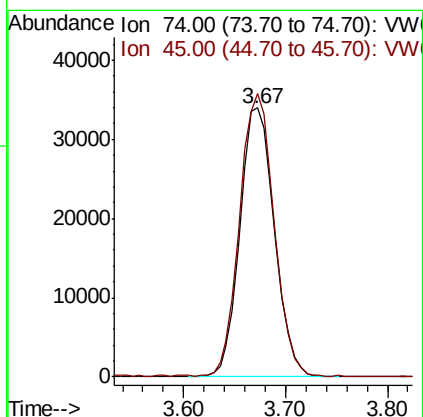
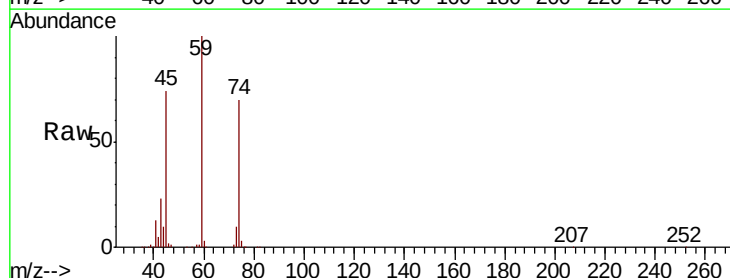
Tot Ion:101 Resp: 61002  
 Ion Ratio Lower Upper  
 101 100  
 103 66.8 50.8 76.2



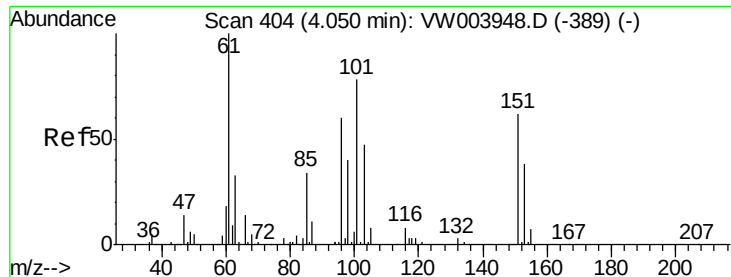
#8

Diethyl Ether  
 Concen: 76.025 ug/l  
 RT: 3.67 min Scan# 342  
 Delta R.T. 0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 74 Resp: 80048  
 Ion Ratio Lower Upper  
 74 100  
 45 104.5 49.4 148.0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.131 ug/l

RT: 4.06 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

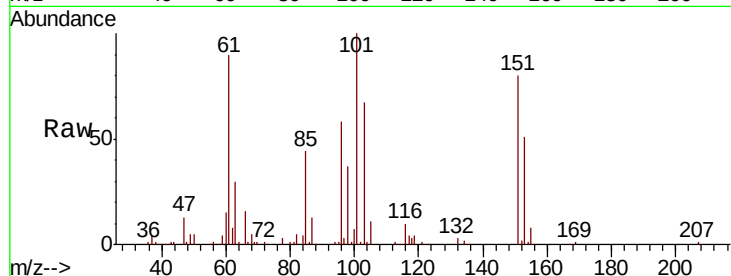
Tot Ion:101 Resp: 129142

Ion Ratio Lower Upper

101 100

85 43.3 35.5 53.3

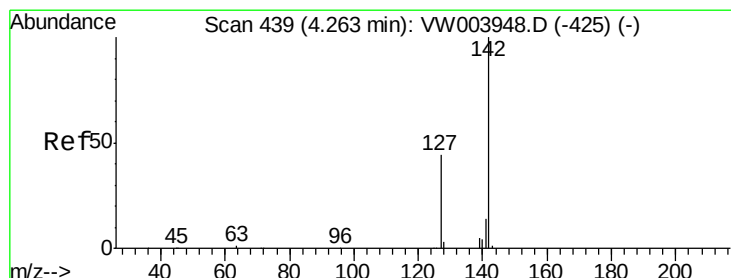
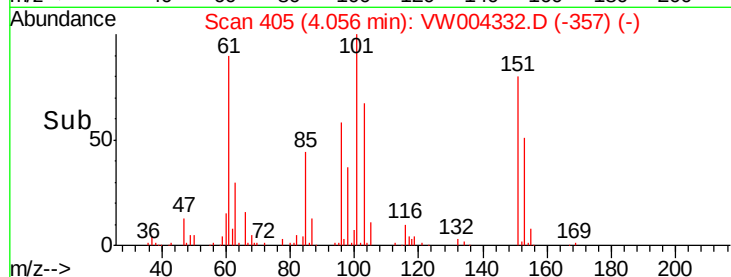
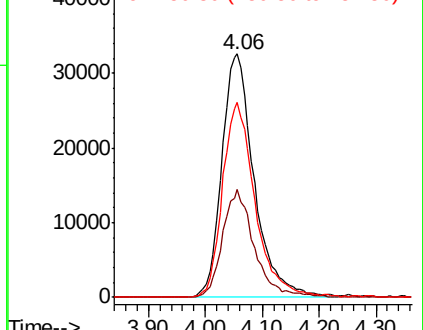
151 80.8 64.6 97.0



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: 54.299 ug/l

RT: 4.26 min Scan# 439

Delta R.T. 0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

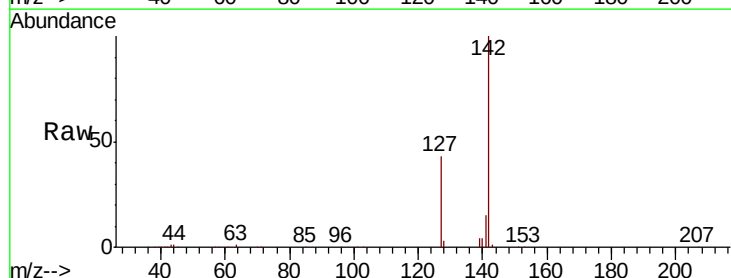
Tgt Ion:142 Resp: 209214

Ion Ratio Lower Upper

142 100

127 43.5 34.6 52.0

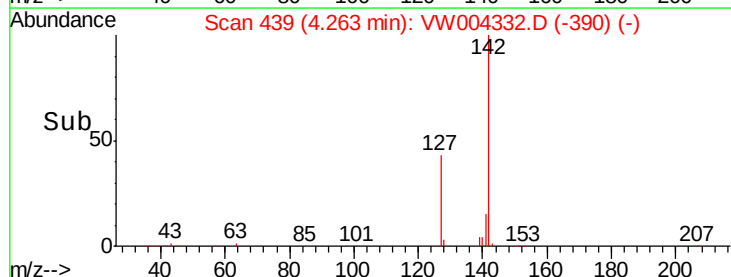
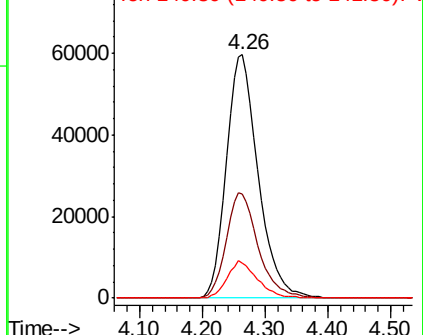
141 14.7 11.5 17.3

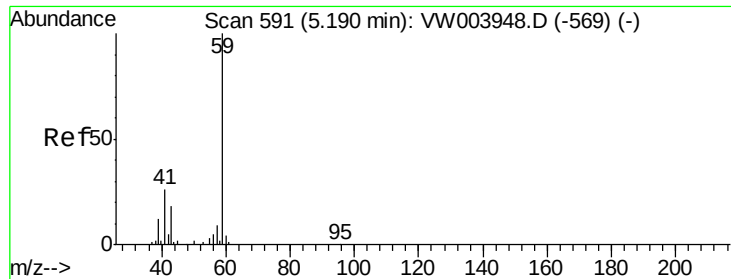


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

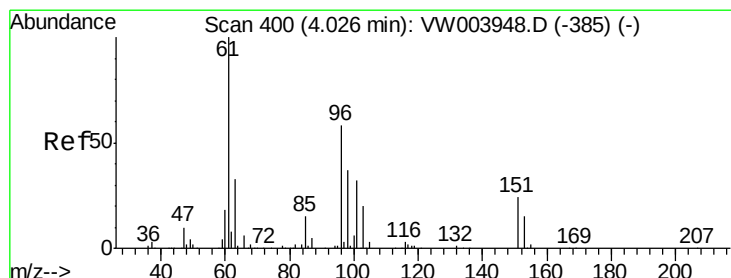
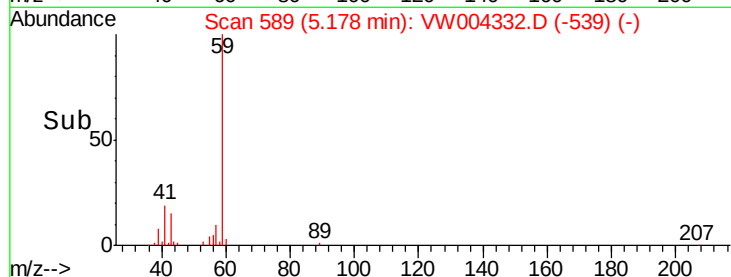
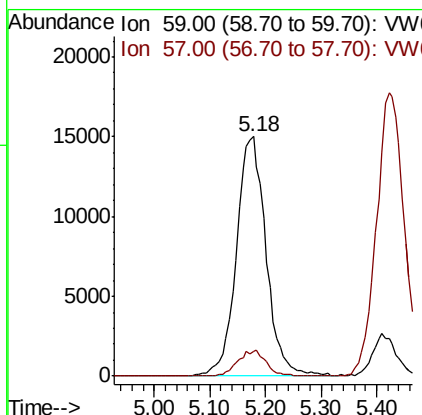
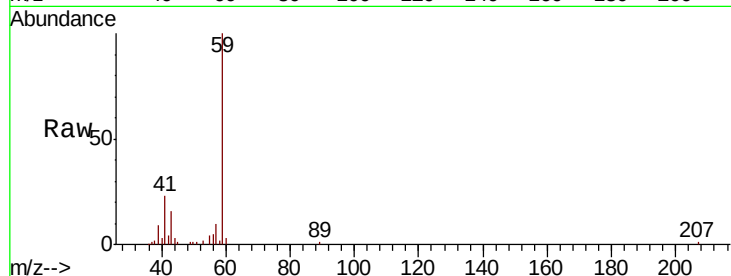




#11  
Tert butyl alcohol  
Concen: 315.973 ug/l  
RT: 5.18 min Scan# 589  
Delta R.T. 0.01 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

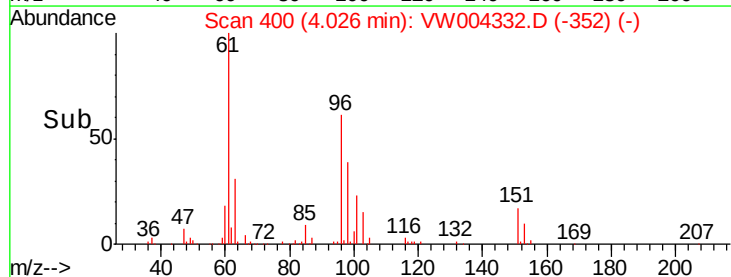
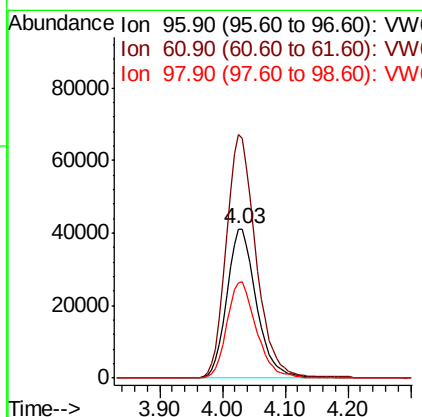
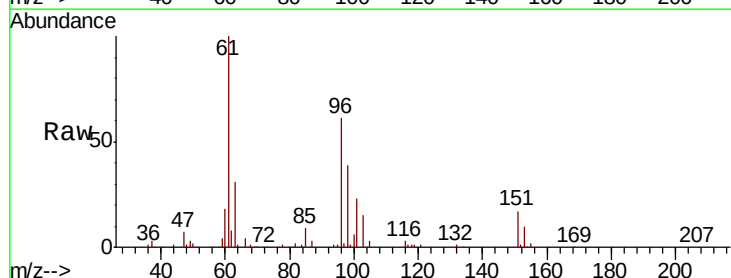
Instrument :  
MSVOA\_W  
ClientSampleId :

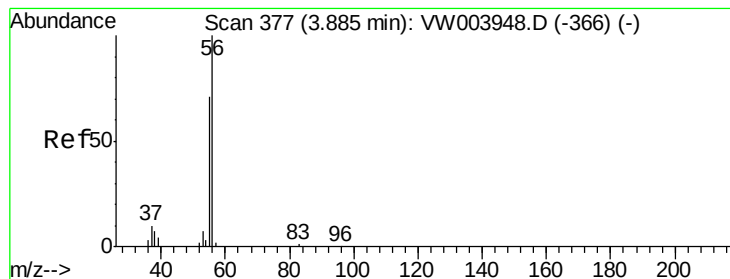
Tot Ion: 59 Resp: 55448  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.4 12.6



#12  
1,1-Dichloroethene  
Concen: 53.282 ug/l  
RT: 4.03 min Scan# 400  
Delta R.T. -0.01 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 96 Resp: 134685  
Ion Ratio Lower Upper  
96 100  
61 162.9 133.4 200.0  
98 63.4 51.9 77.9





#13

Acrolein

Concen: 354.301 ug/l

RT: 3.88 min Scan# 376

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

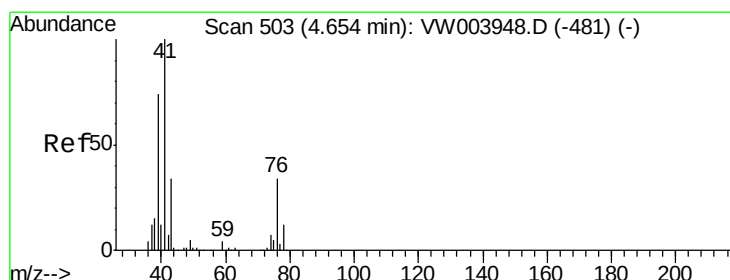
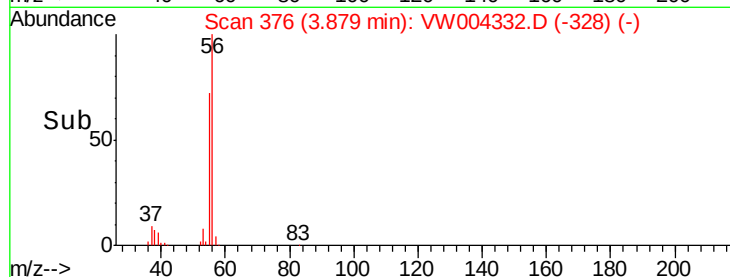
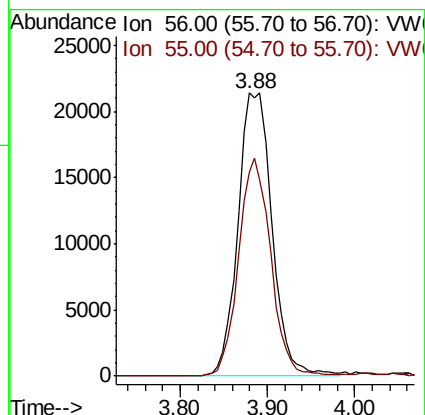
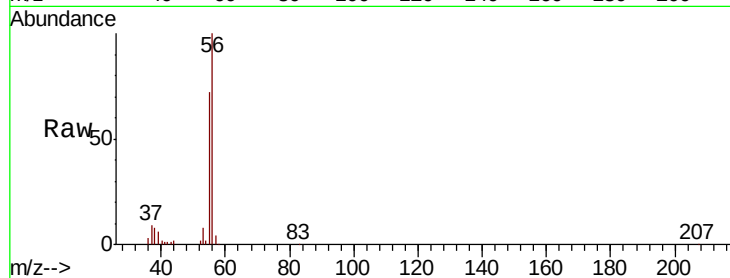
ClientSampleId :

Tot Ion: 56 Resp: 58099

Ion Ratio Lower Upper

56 100

55 72.9 59.4 89.2



#14

Allyl chloride

Concen: 53.195 ug/l

RT: 4.65 min Scan# 503

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

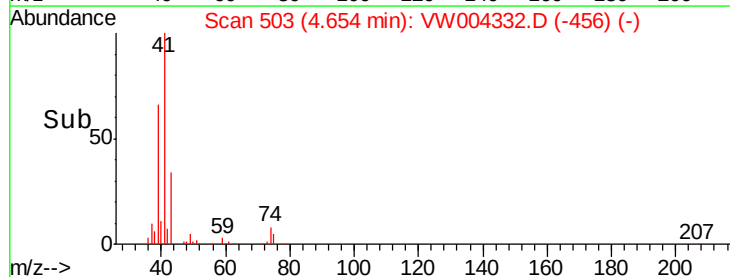
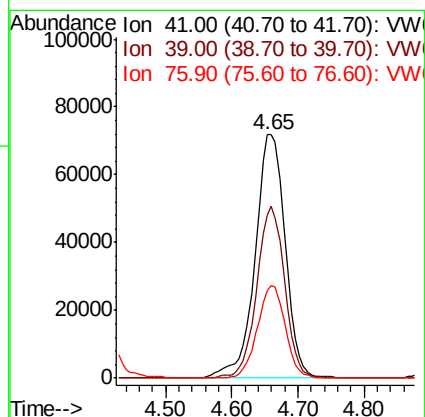
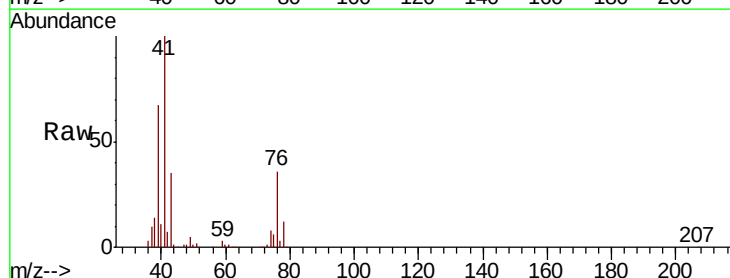
Tgt Ion: 41 Resp: 228332

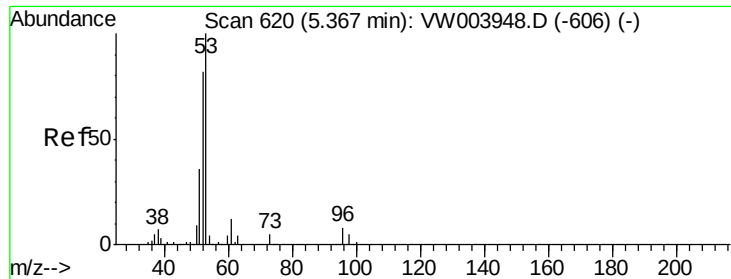
Ion Ratio Lower Upper

41 100

39 65.3 52.3 78.5

76 35.0 27.3 40.9





#15

Acrylonitrile

Concen: 292.982 ug/l

RT: 5.37 min Scan# 620

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

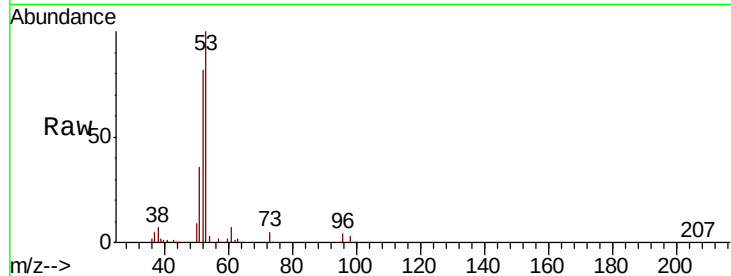
Tot Ion: 53 Resp: 174025

Ion Ratio Lower Upper

53 100

52 82.2 65.7 98.5

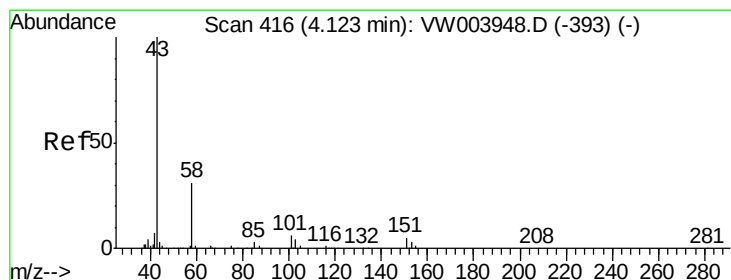
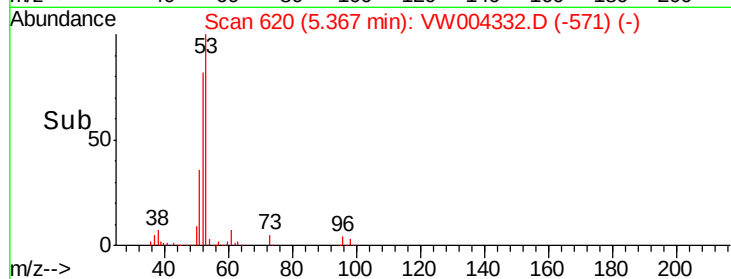
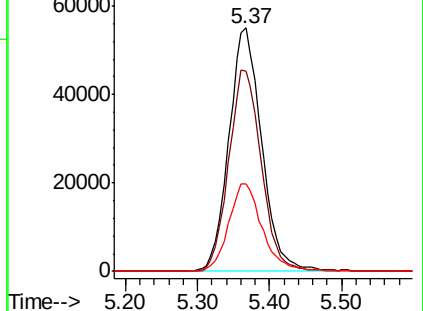
51 36.9 29.2 43.8



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: 234.551 ug/l

RT: 4.12 min Scan# 415

Delta R.T. 0.00 min

Lab File: VW004332.D

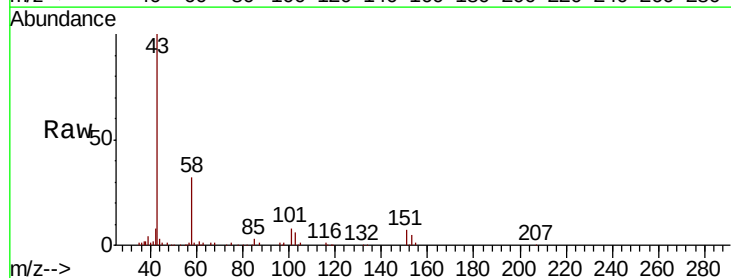
Acq: 30 Jul 2018 00:42

Tgt Ion: 43 Resp: 149884

Ion Ratio Lower Upper

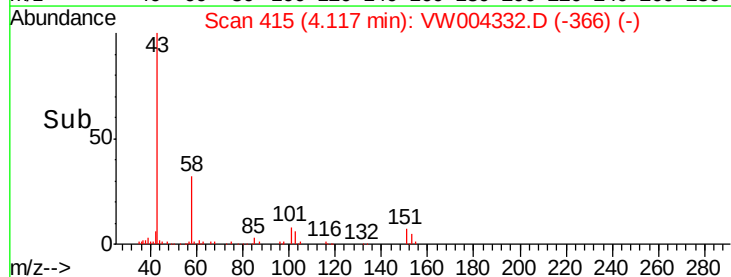
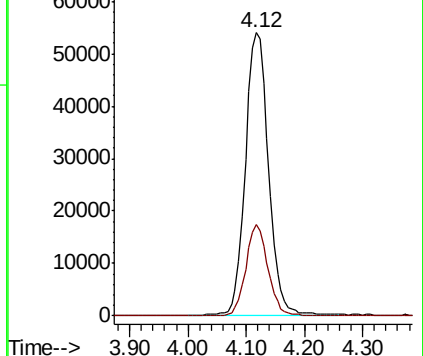
43 100

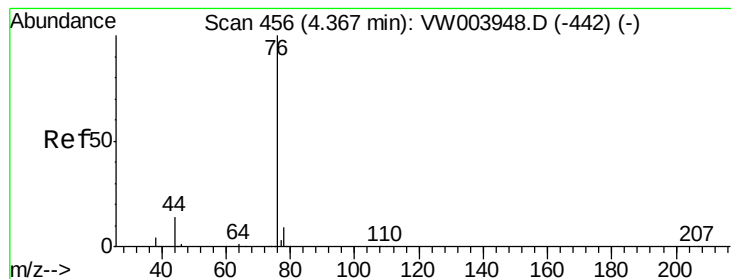
58 32.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 54.003 ug/l

RT: 4.37 min Scan# 456

Delta R.T. 0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

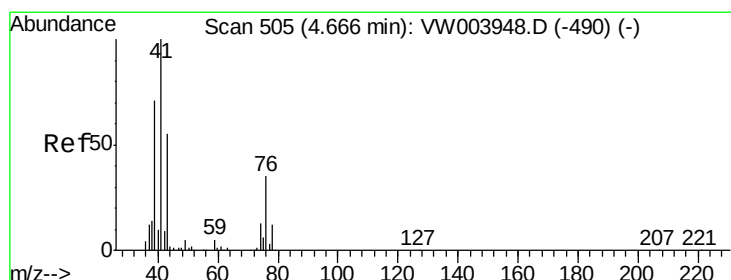
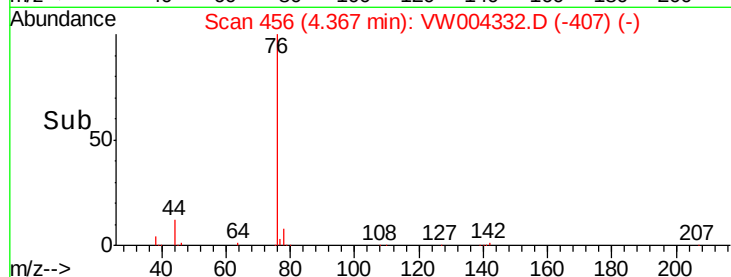
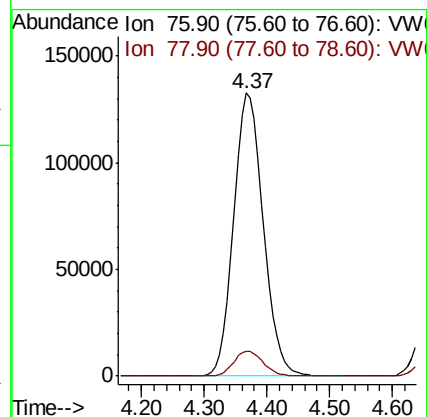
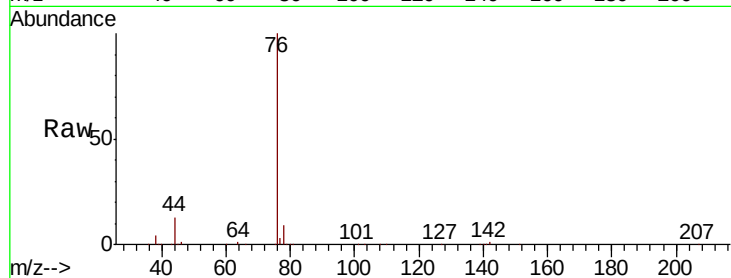
ClientSampled :

Tot Ion: 76 Resp: 433970

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



#18

Methyl Acetate

Concen: 61.655 ug/l

RT: 4.67 min Scan# 505

Delta R.T. -0.01 min

Lab File: VW004332.D

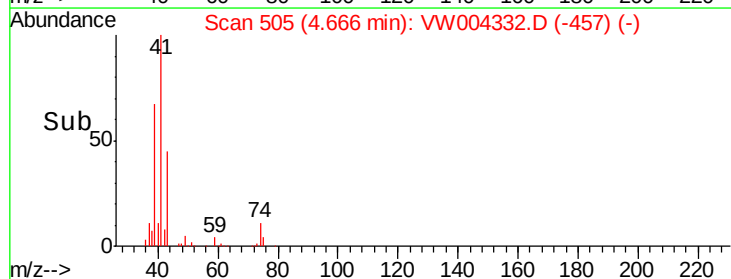
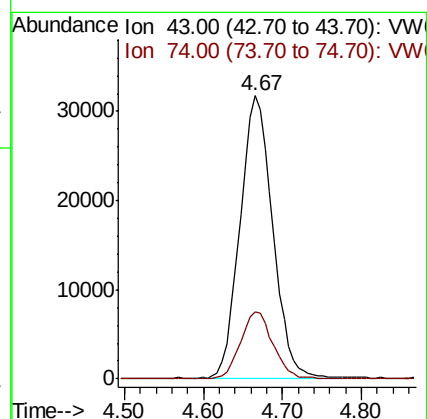
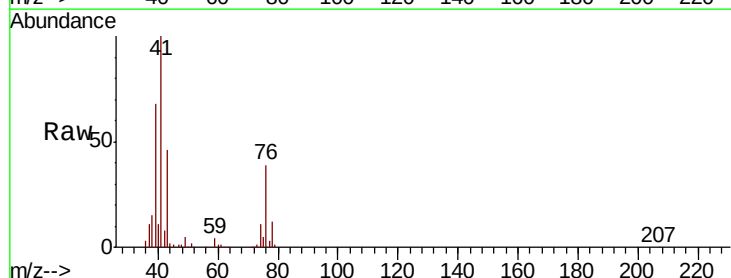
Acq: 30 Jul 2018 00:42

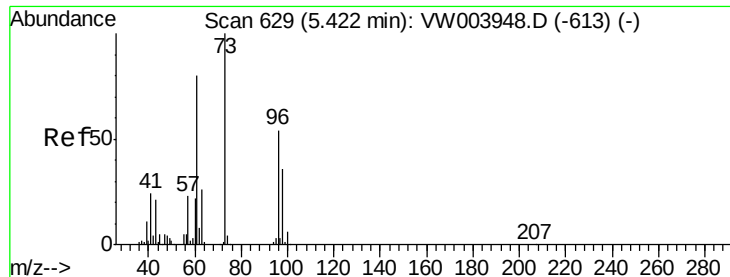
Tgt Ion: 43 Resp: 92015

Ion Ratio Lower Upper

43 100

74 23.3 17.8 26.6



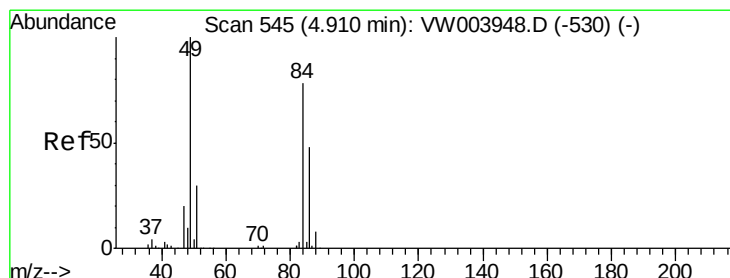
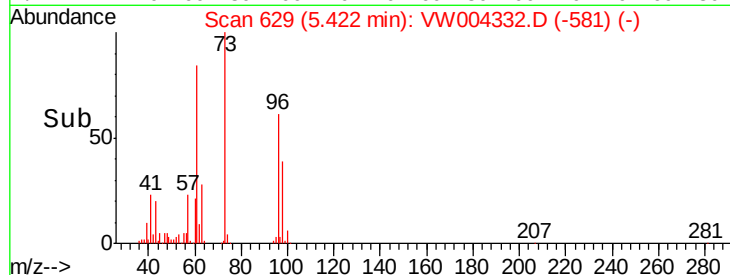
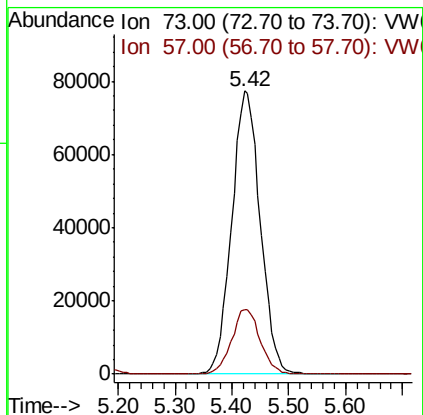
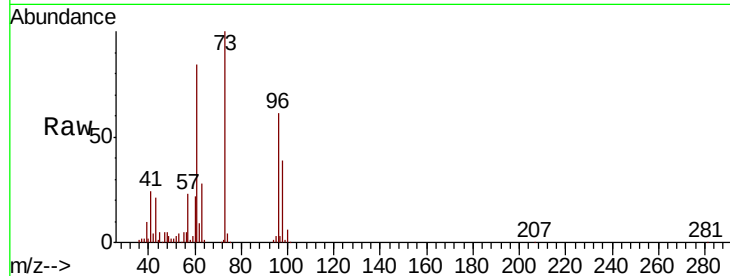


#19

Methyl tert-butyl Ether  
 Concen: 57.475 ug/l  
 RT: 5.42 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Instrument :  
 MSVOA\_W  
 ClientSampleId :

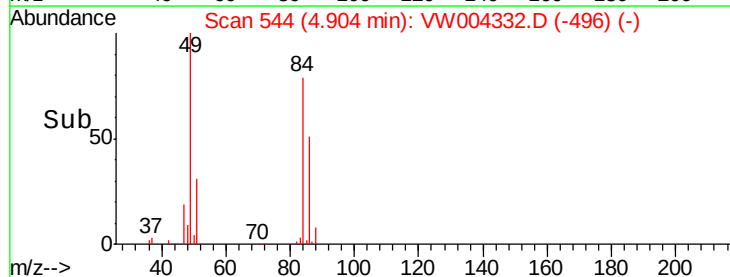
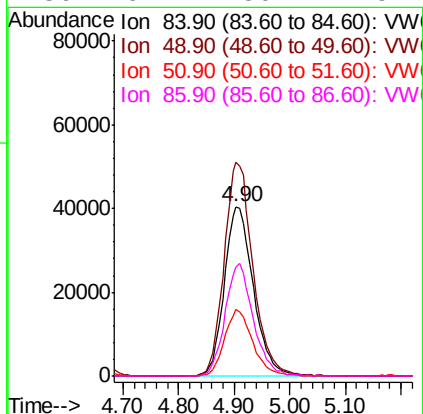
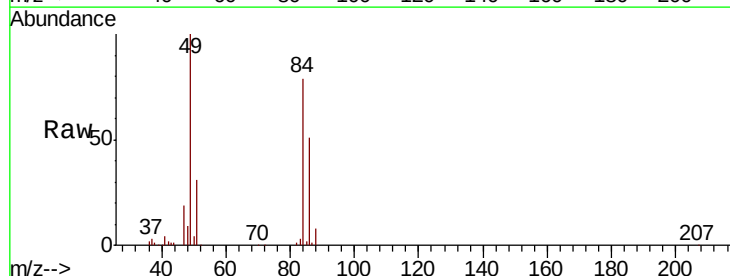
Tot Ion: 73 Resp: 270602  
 Ion Ratio Lower Upper  
 73 100  
 57 22.9 18.4 27.6

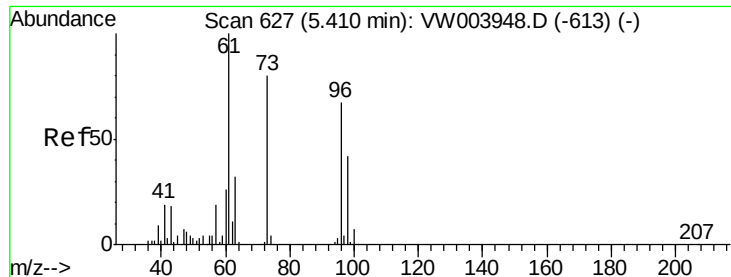


#20

Methylene Chloride  
 Concen: 57.089 ug/l  
 RT: 4.90 min Scan# 544  
 Delta R.T. -0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 84 Resp: 145641  
 Ion Ratio Lower Upper  
 84 100  
 49 126.3 100.5 150.7  
 51 39.0 30.9 46.3  
 86 64.1 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 54.653 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

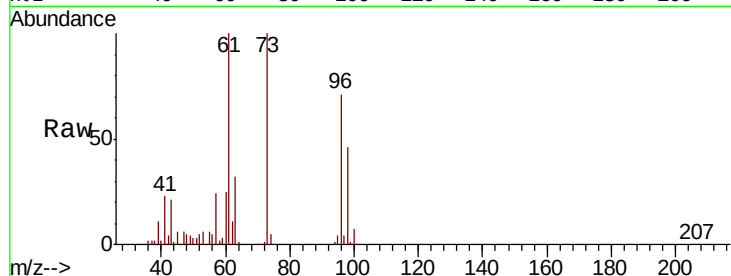
Tot Ion: 96 Resp: 147815

Ion Ratio Lower Upper

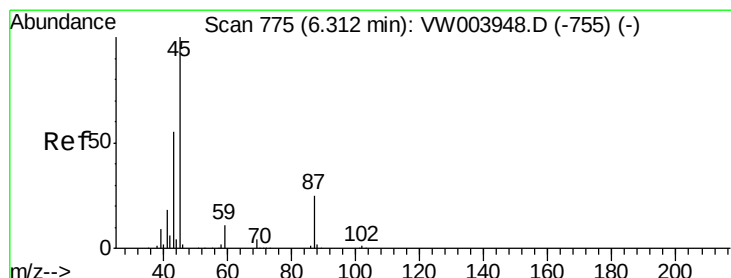
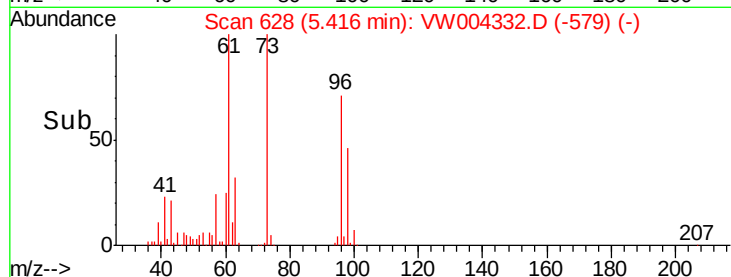
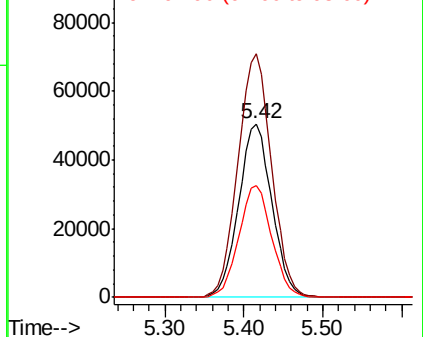
96 100

61 140.2 116.2 174.2

98 64.1 52.9 79.3



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



#22

Diisopropyl ether

Concen: 58.399 ug/l

RT: 6.31 min Scan# 775

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Tgt Ion: 45 Resp: 468765

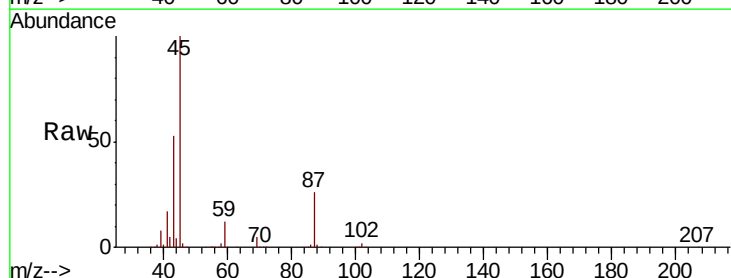
Ion Ratio Lower Upper

45 100

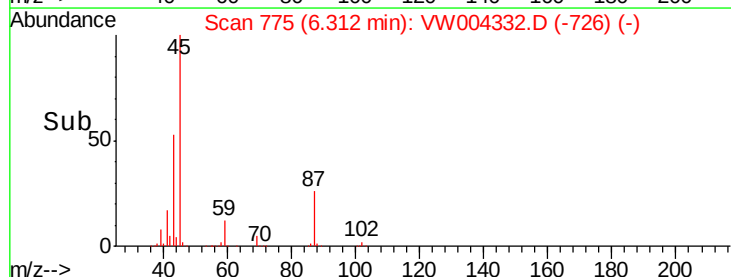
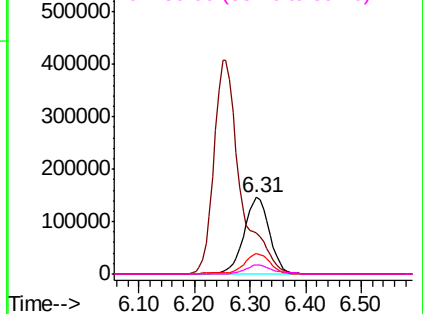
43 53.1 42.3 63.5

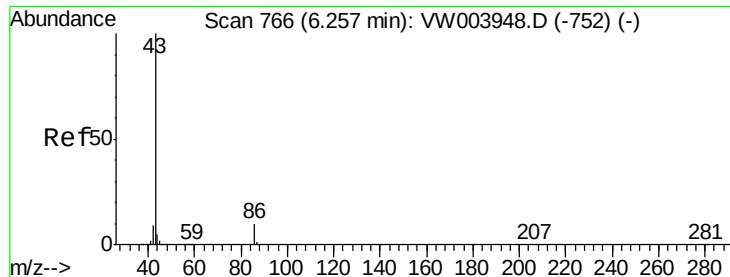
87 26.2 19.9 29.9

59 11.8 8.7 13.1



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 288.179 ug/l

RT: 6.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

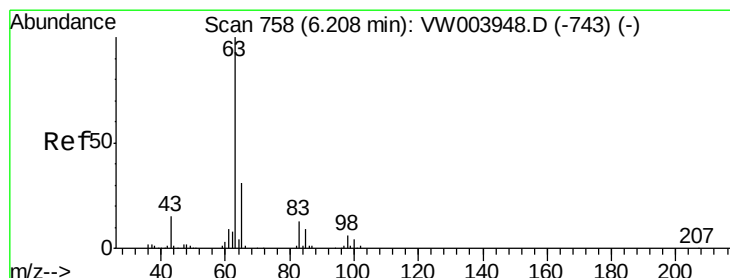
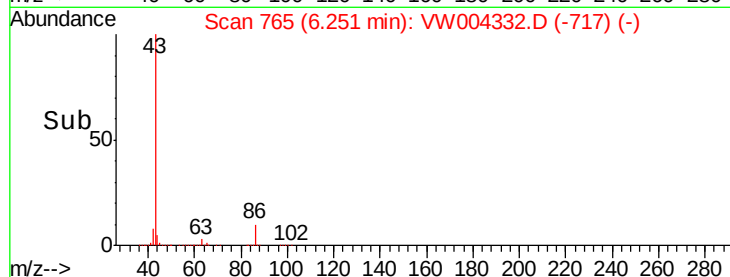
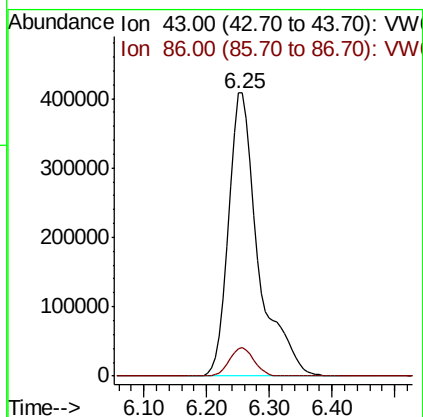
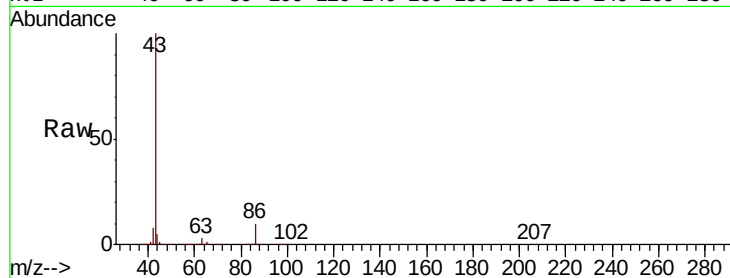
ClientSampleId :

Tot Ion: 43 Resp: 1342030

Ion Ratio Lower Upper

43 100

86 9.6 7.7 11.5



#24

1,1-Dichloroethane

Concen: 55.502 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

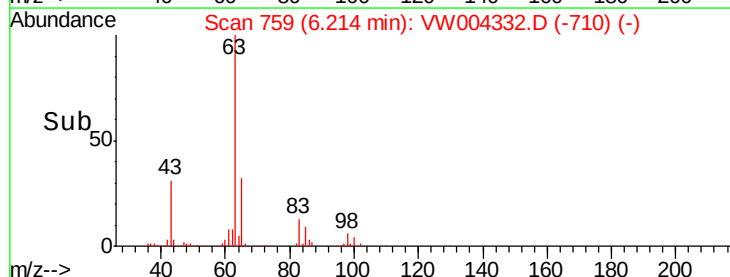
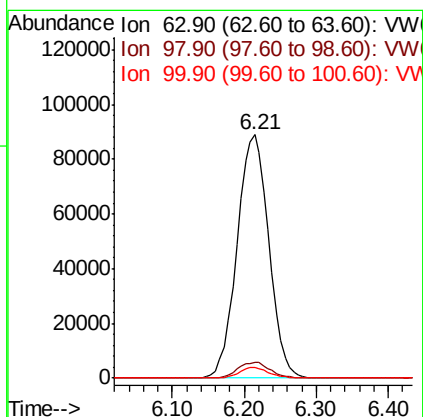
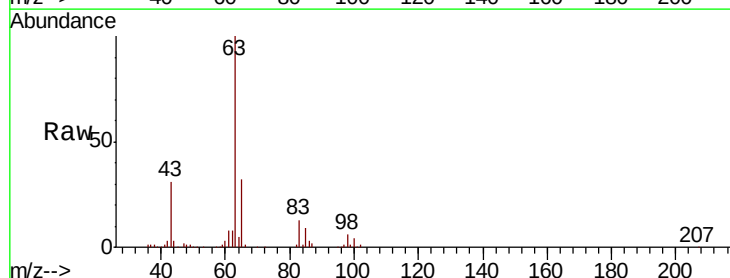
Tgt Ion: 63 Resp: 271657

Ion Ratio Lower Upper

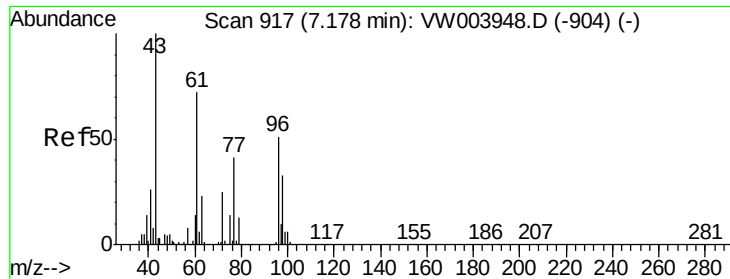
63 100

98 6.4 3.2 9.6

100 4.4 2.3 6.9







#25

2-Butanone

Concen: 309.149 ug/l

RT: 7.17 min Scan# 916

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

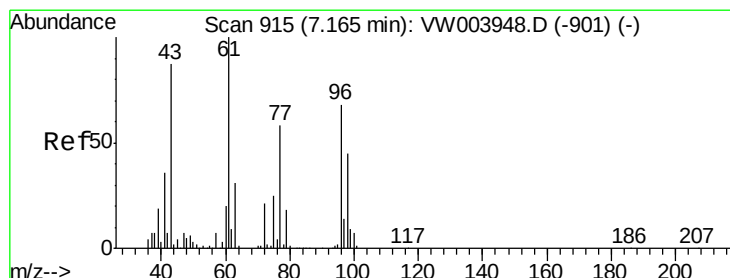
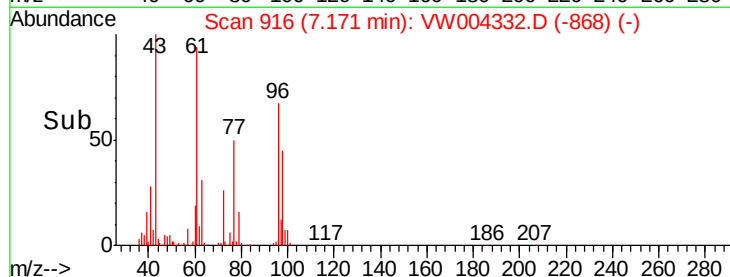
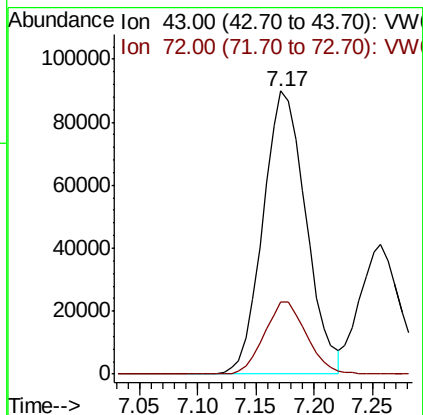
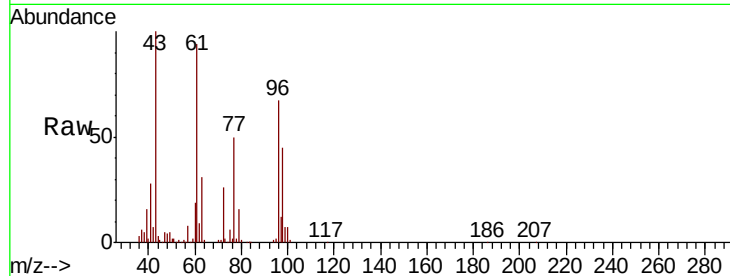
ClientSampled :

Tot Ion: 43 Resp: 229594

Ion Ratio Lower Upper

43 100

72 25.7 20.3 30.5



#26

2,2-Dichloropropane

Concen: 44.666 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW004332.D

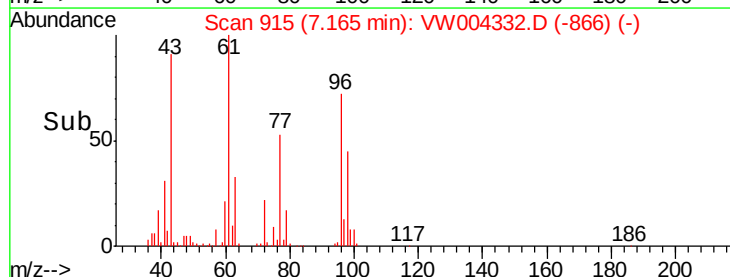
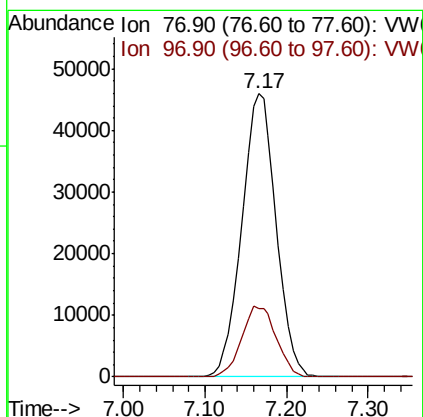
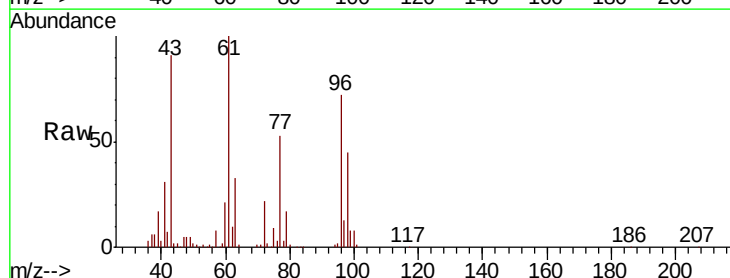
Acq: 30 Jul 2018 00:42

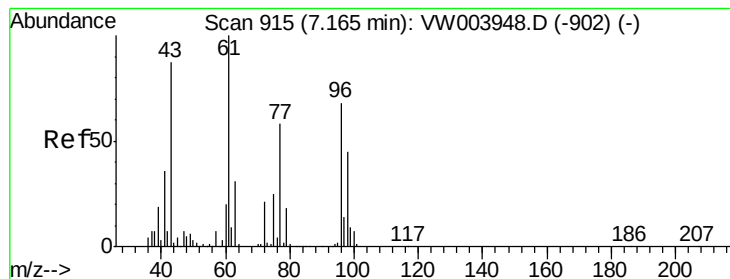
Tgt Ion: 77 Resp: 133959

Ion Ratio Lower Upper

77 100

97 25.2 11.7 35.1



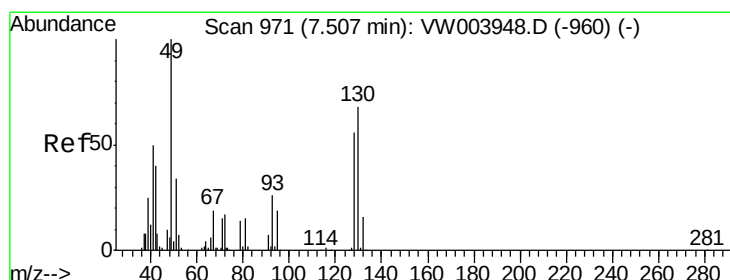
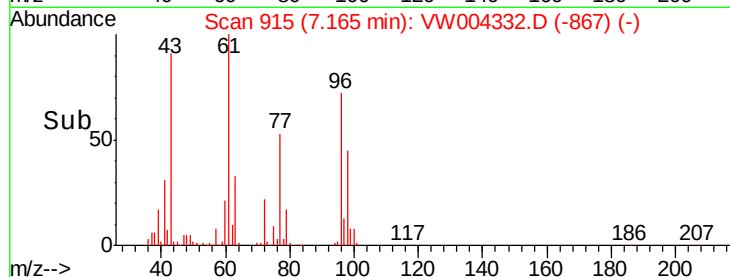
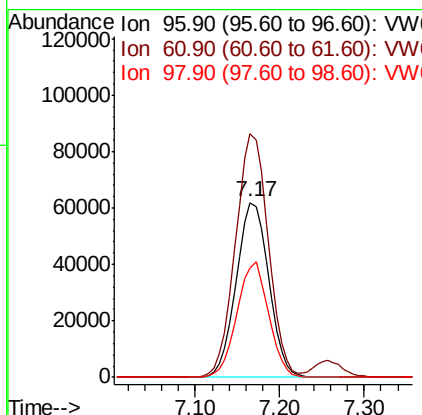
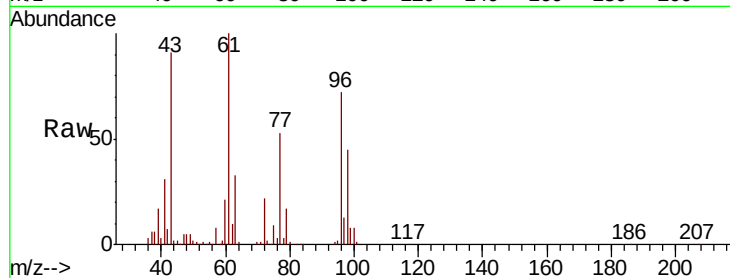


#27

cis-1,2-Dichloroethene  
 Concen: 56.197 ug/l  
 RT: 7.17 min Scan# 915  
 Delta R.T. -0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Instrument :  
 MSVOA\_W  
 ClientSampled :

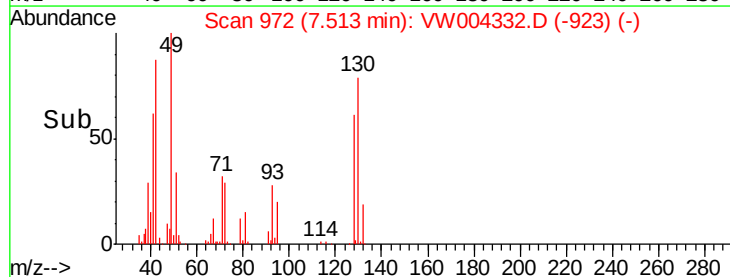
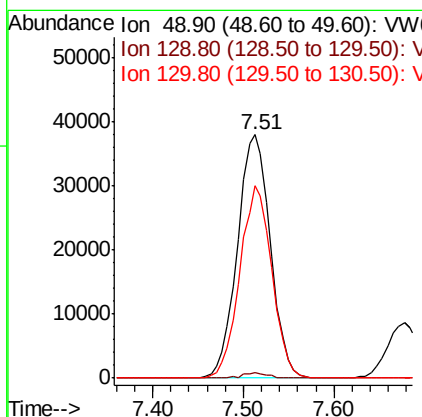
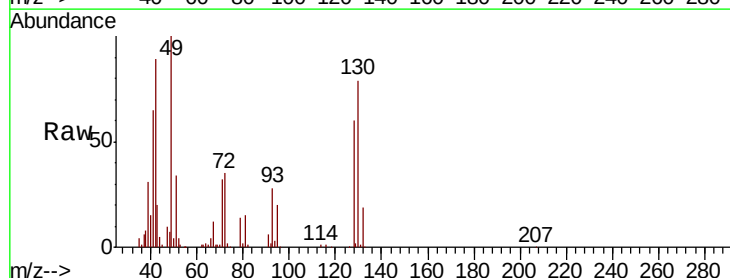
| Tot Ion | 96    | Resp  | 161808 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 140.2 | 0.0   | 292.0  |
| 98      | 63.9  | 0.0   | 129.6  |

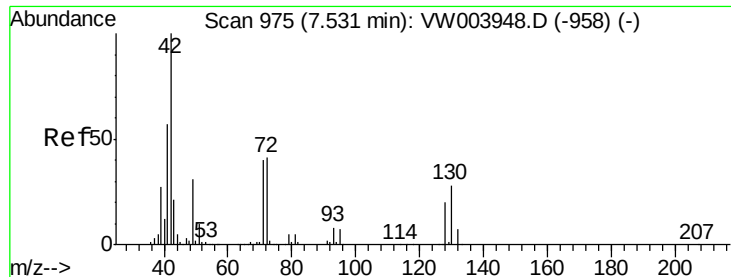


#28

Bromochloromethane  
 Concen: 52.611 ug/l  
 RT: 7.51 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

| Tgt Ion | 49    | Resp  | 95318 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 1.7   | 0.0   | 4.6   |
| 130     | 77.0  | 61.5  | 92.3  |

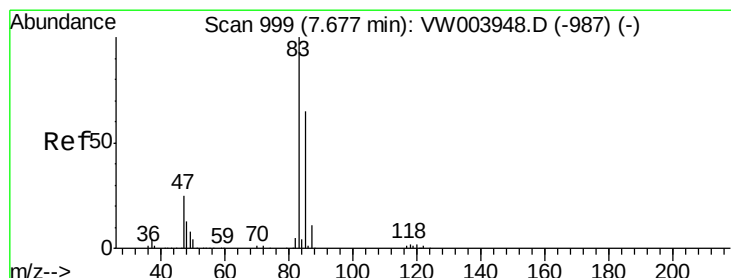
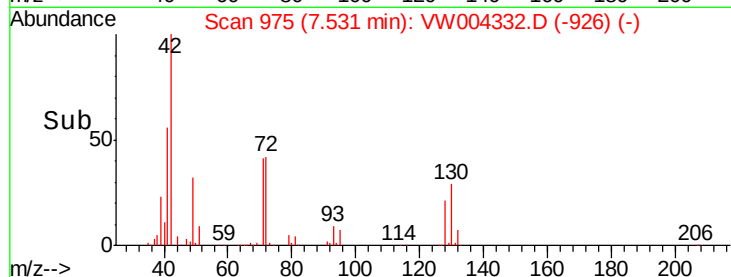
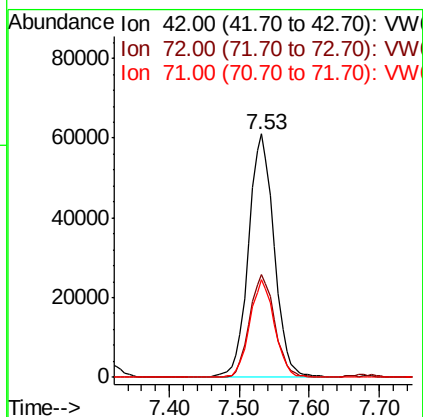
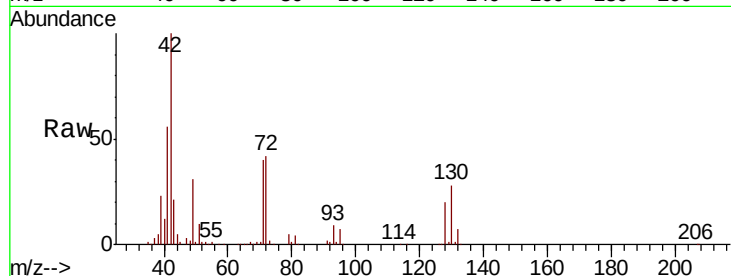




#29  
Tetrahydrofuran  
Concen: 302.582 ug/l  
RT: 7.53 min Scan# 975  
Delta R.T. 0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

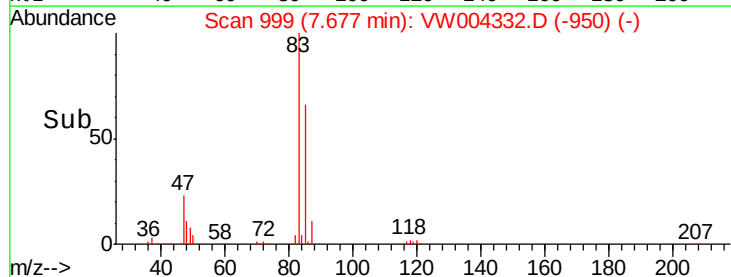
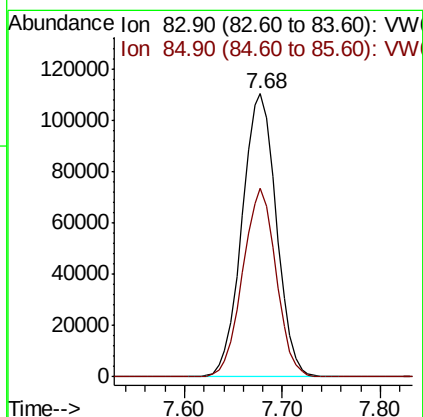
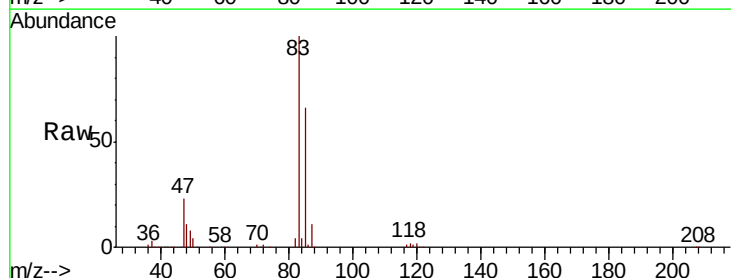
Instrument :  
MSVOA\_W  
ClientSampled :

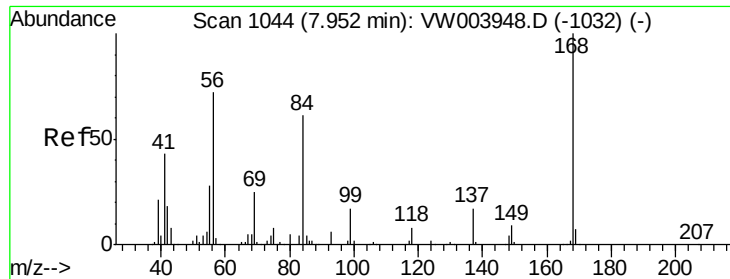
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 41.6  | 32.6  | 48.8  |
| 71      | 38.7  | 31.3  | 46.9  |



#30  
Chloroform  
Concen: 54.516 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.4  | 51.5  | 77.3  |

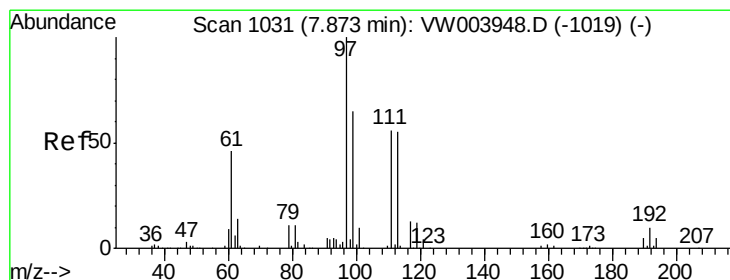
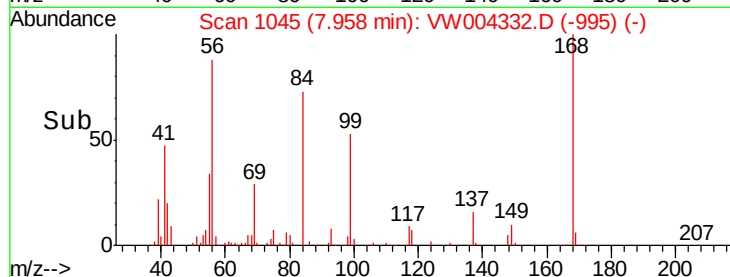
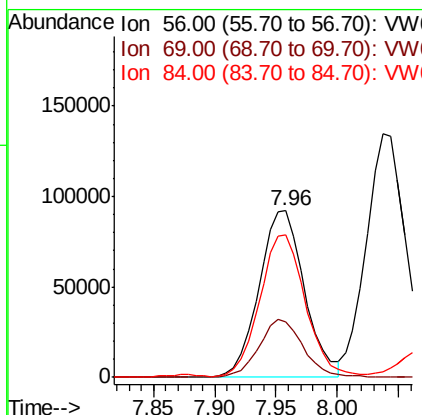
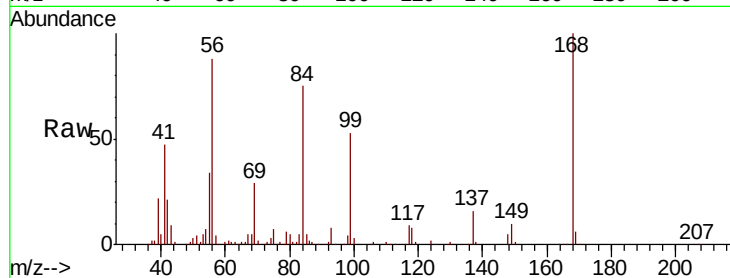




#31  
Cyclohexane  
Concen: 52.249 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.01 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

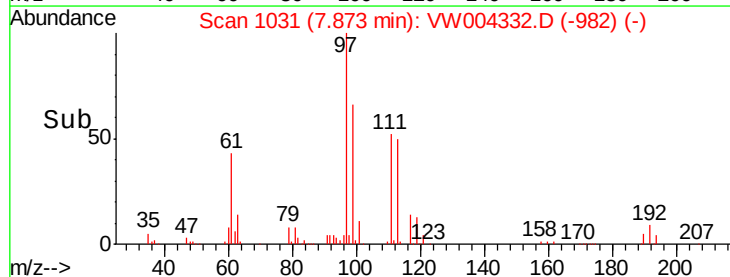
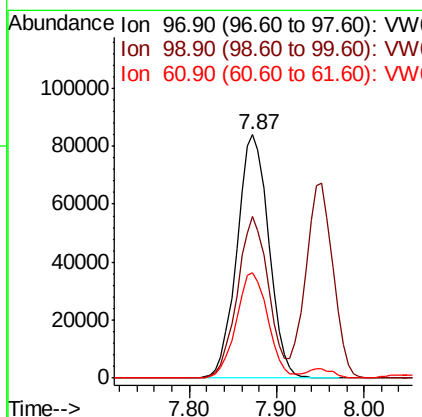
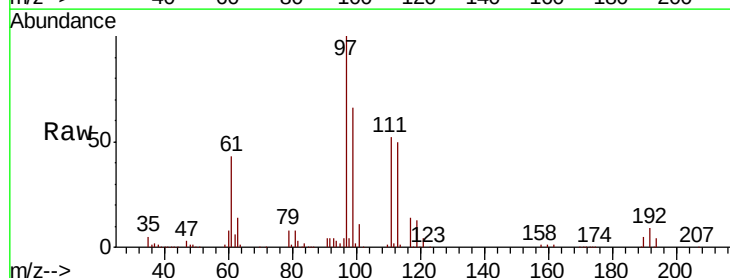
Instrument :  
MSVOA\_W  
ClientSampled :

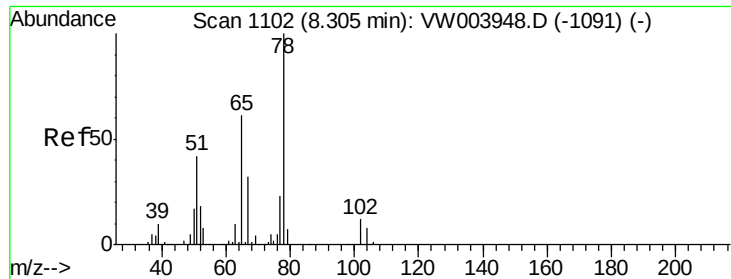
Tot Ion: 56 Resp: 238510  
Ion Ratio Lower Upper  
56 100  
69 33.4 26.3 39.5  
84 84.0 66.2 99.4



#32  
1,1,1-Trichloroethane  
Concen: 52.293 ug/l  
RT: 7.87 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 97 Resp: 212065  
Ion Ratio Lower Upper  
97 100  
99 65.7 51.7 77.5  
61 43.3 34.8 52.2

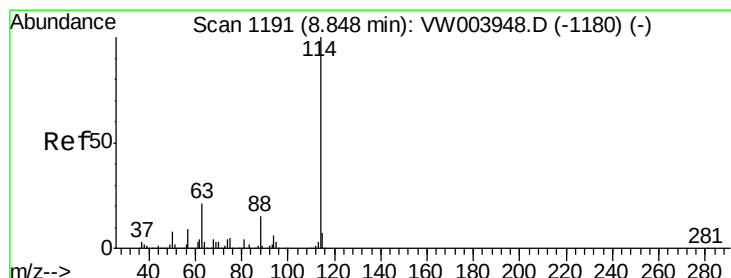
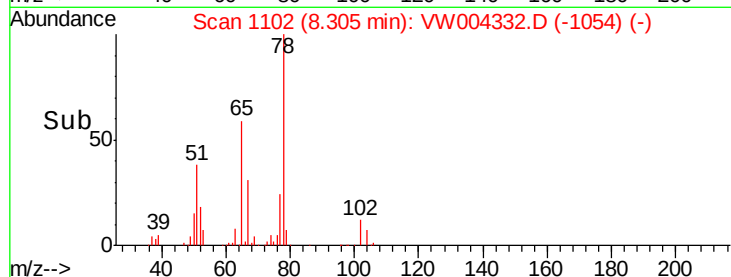
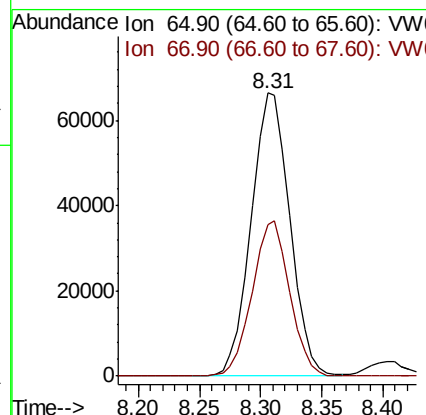
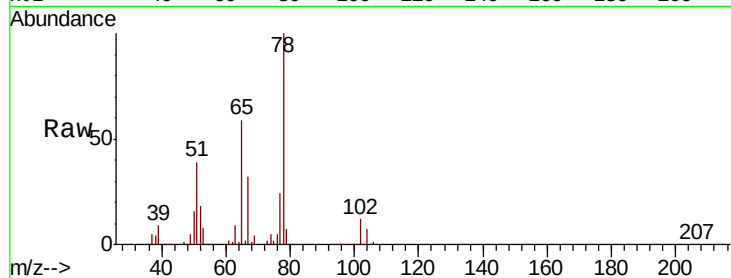




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.685 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

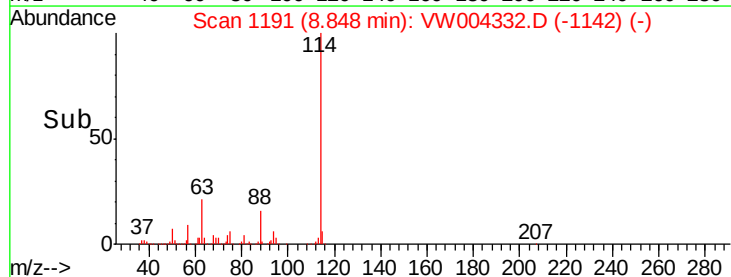
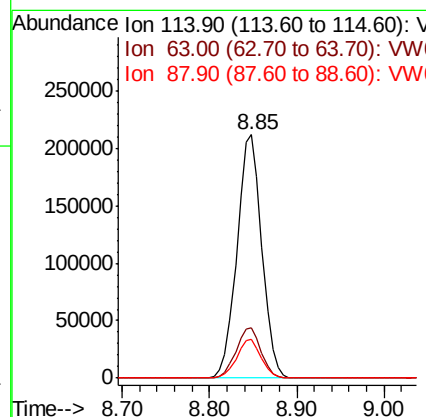
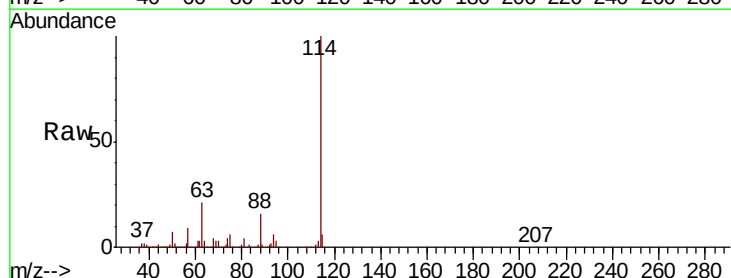
Instrument :  
 MSVOA\_W  
 ClientSampleId :

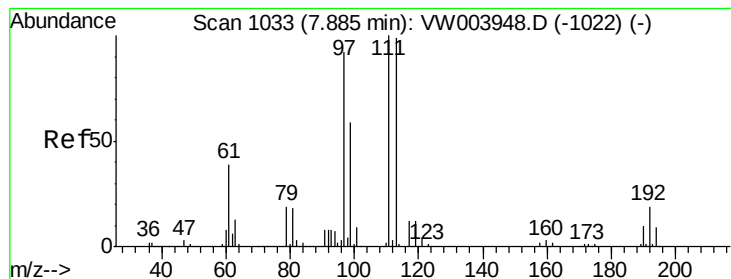
Tot Ion: 65 Resp: 146229  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 114 Resp: 416371  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 41.4  
 88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.381 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

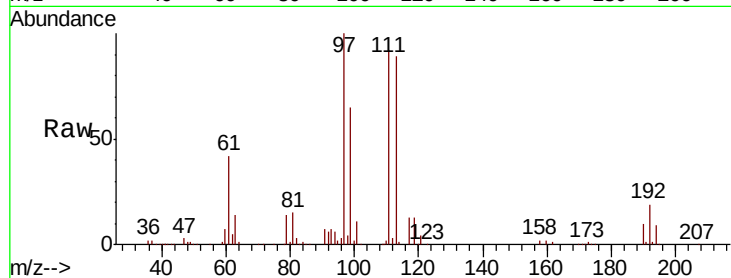
Tot Ion:113 Resp: 135198

Ion Ratio Lower Upper

113 100

111 102.8 82.1 123.1

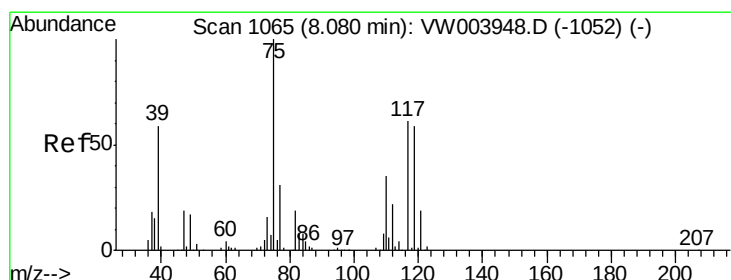
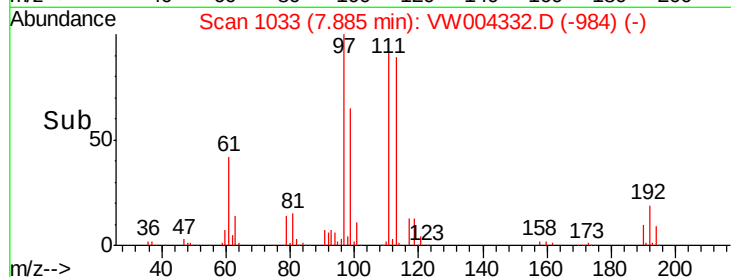
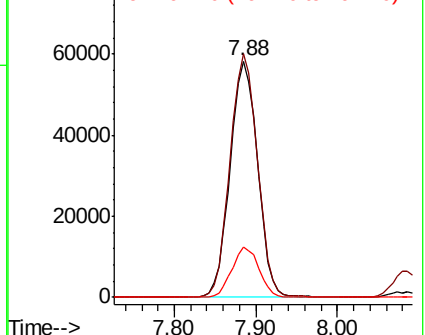
192 21.0 16.2 24.4



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: 51.825 ug/l

RT: 8.09 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

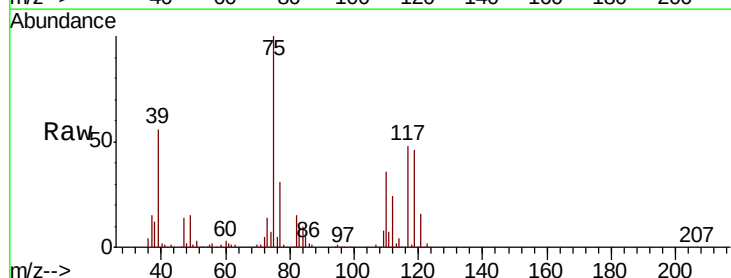
Tgt Ion: 75 Resp: 215869

Ion Ratio Lower Upper

75 100

110 35.1 17.3 52.0

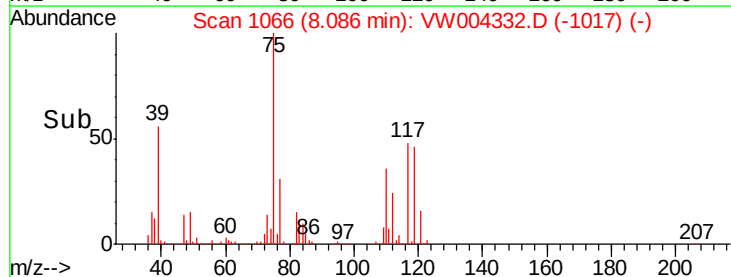
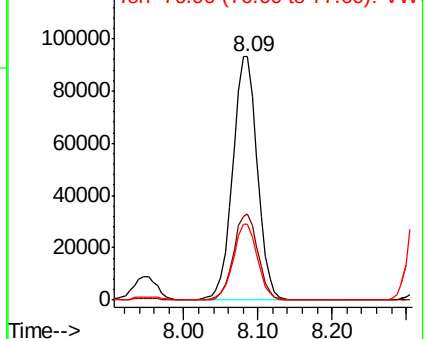
77 31.1 25.0 37.6

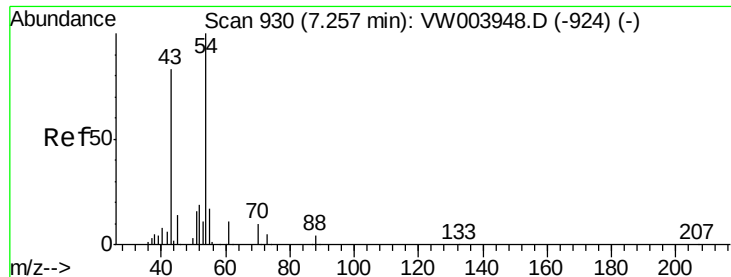


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

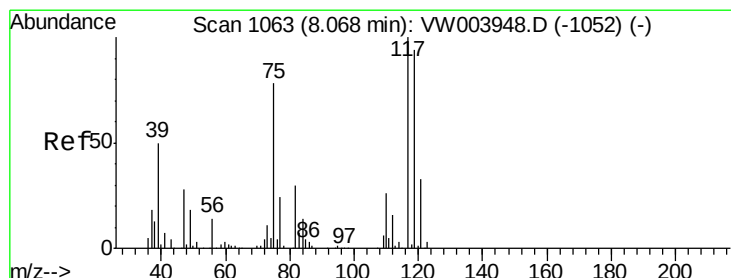
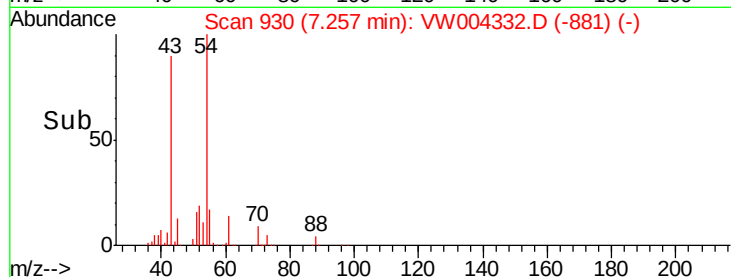
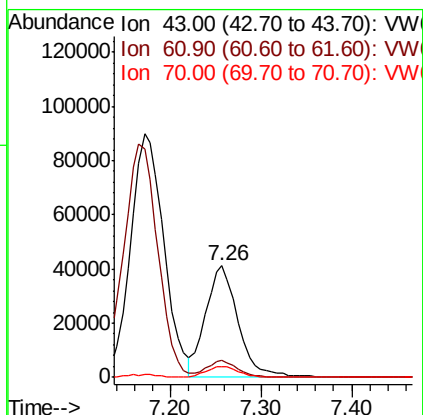
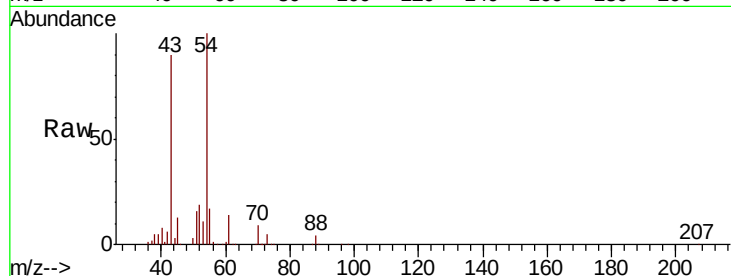




#37  
Ethyl Acetate  
Concen: 59.590 ug/l  
RT: 7.26 min Scan# 930  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

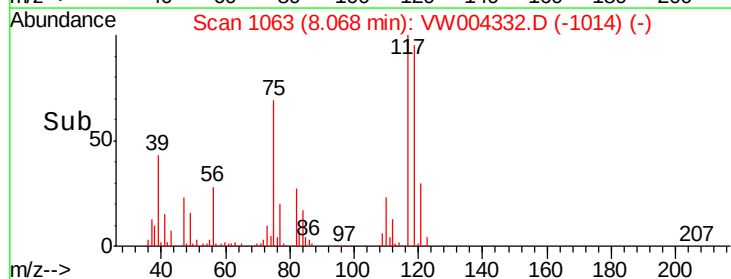
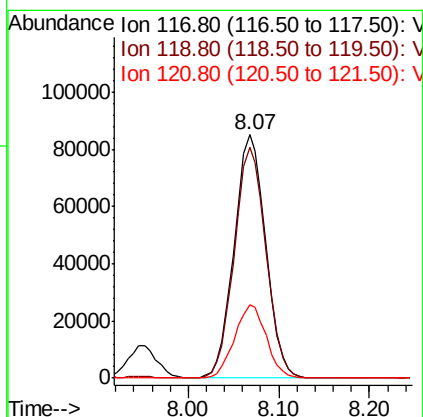
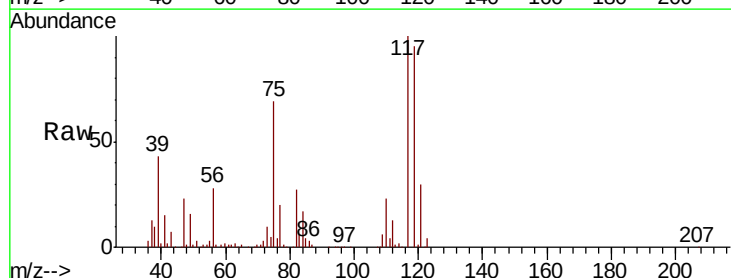
Instrument :  
MSVOA\_W  
ClientSampled :

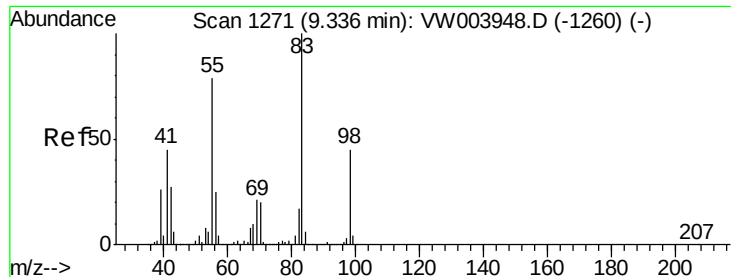
Tot Ion: 43 Resp: 101714  
Ion Ratio Lower Upper  
43 100  
61 14.1 11.1 16.7  
70 9.9 7.8 11.6



#38  
Carbon Tetrachloride  
Concen: 49.846 ug/l  
RT: 8.07 min Scan# 1063  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 117 Resp: 205014  
Ion Ratio Lower Upper  
117 100  
119 95.0 79.7 119.5  
121 30.3 25.7 38.5

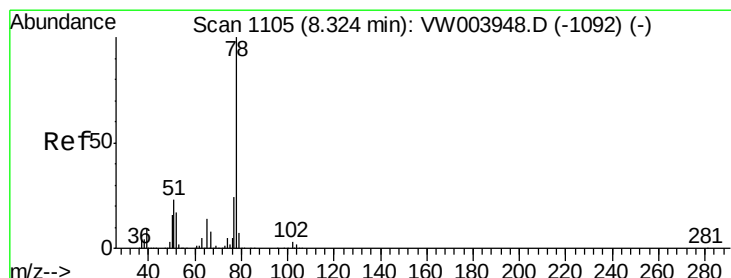
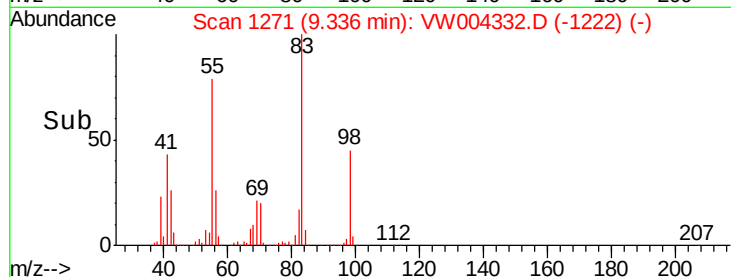
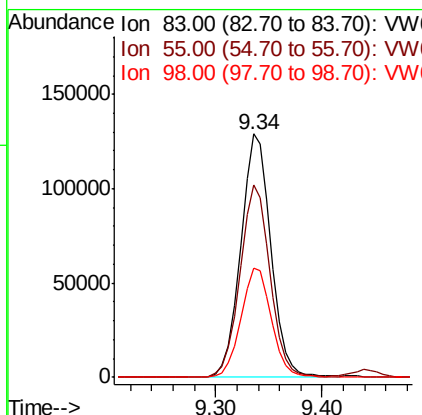
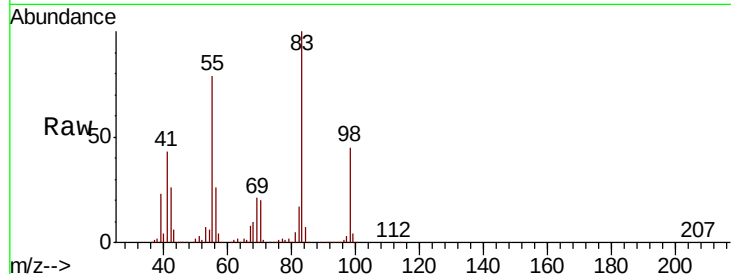




#39  
Methylvlcyclohexane  
Concen: 51.106 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

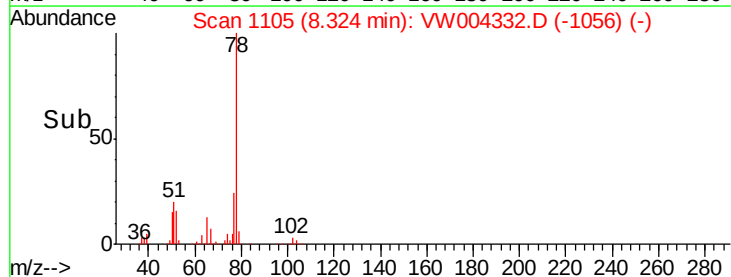
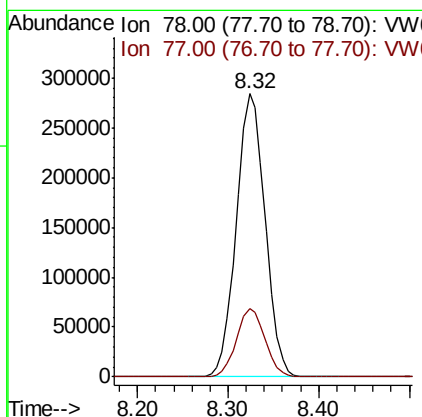
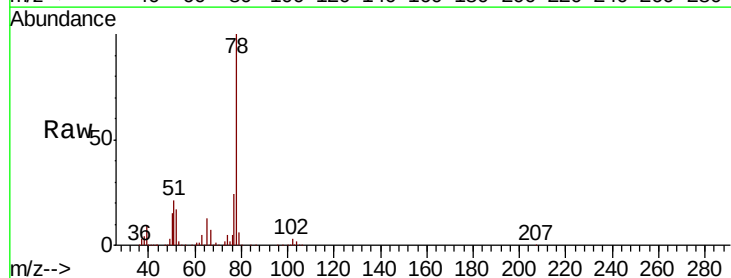
Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion   | 83    | Resp  | 256512 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 78.9  | 64.3  | 96.5   |
| 98        | 45.1  | 36.3  | 54.5   |

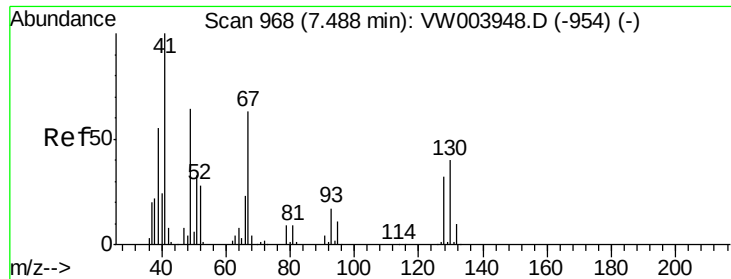


#40  
Benzene  
Concen: 53.369 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

| Tgt Ion   | 78    | Resp  | 625368 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 24.1  | 19.4  | 29.0   |



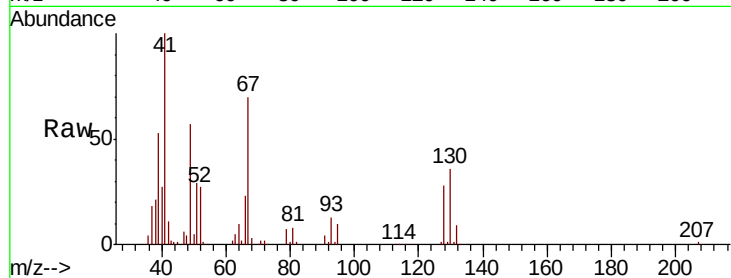




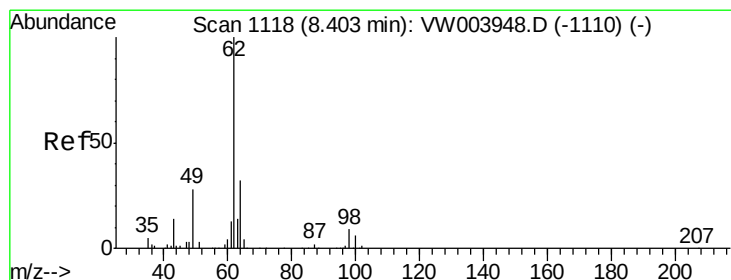
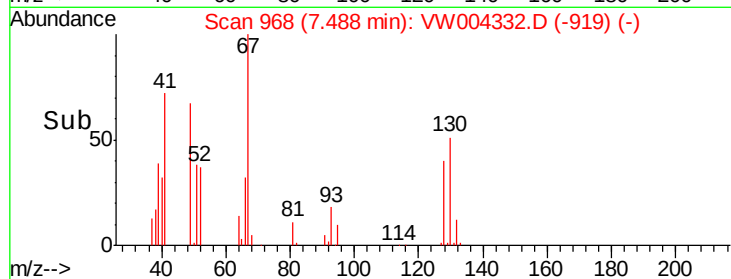
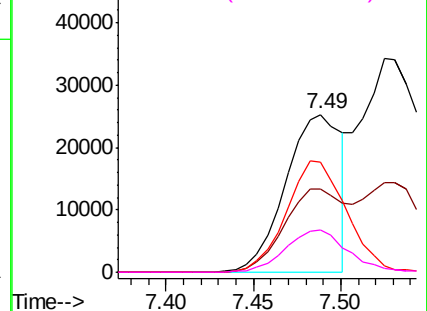
#41  
Methacrylonitrile  
Concen: 50.174 ug/l  
RT: 7.49 min Scan# 968  
Delta R.T. 0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Instrument :  
MSVOA\_W  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 56160 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 60.5  | 41.2  | 61.8  |
| 67       | 76.8  | 53.4  | 80.0  |
| 52       | 30.7  | 22.4  | 33.6  |

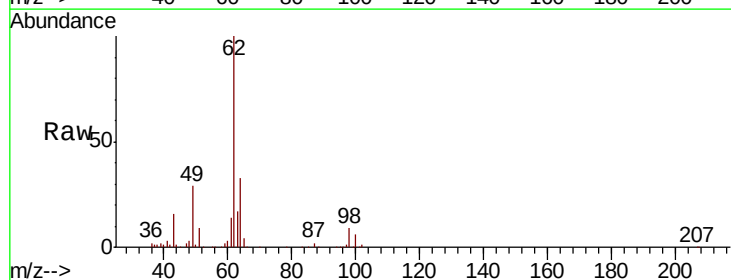


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

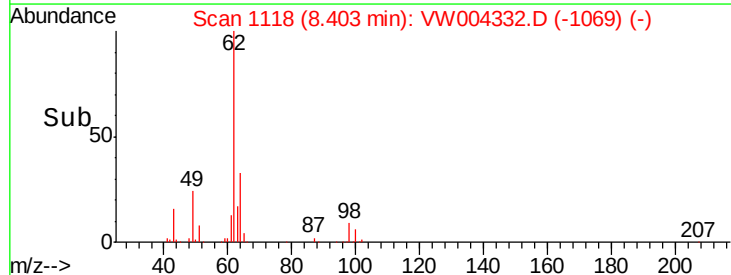
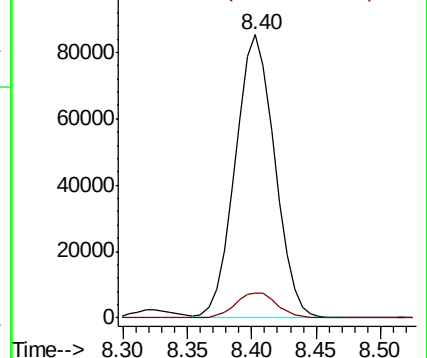


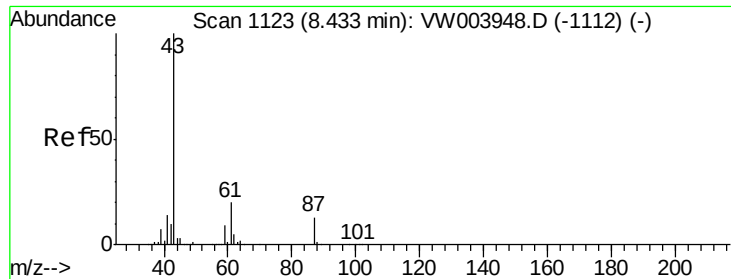
#42  
1,2-Dichloroethane  
Concen: 54.137 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 181358 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 9.3   | 0.0   | 18.4   |



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





#43

Isopropyl Acetate

Concen: 62.414 ug/l

RT: 8.43 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

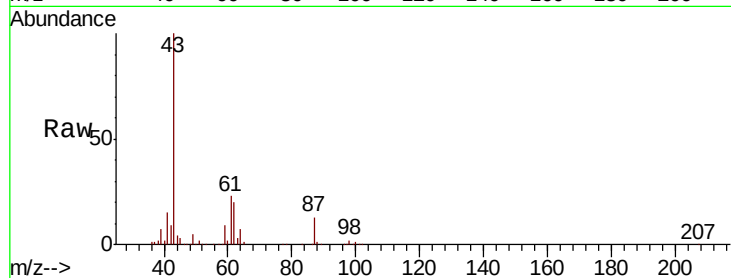
Tot Ion: 43 Resp: 192005

Ion Ratio Lower Upper

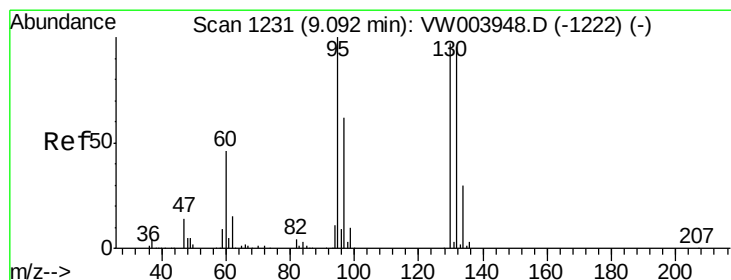
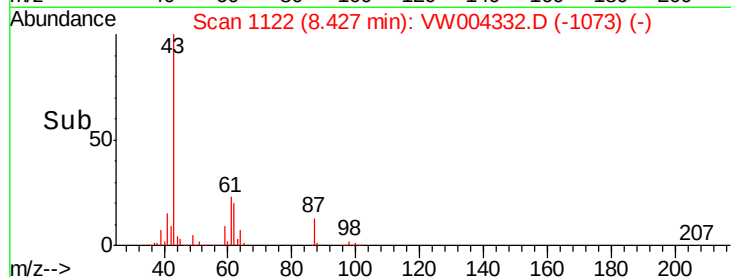
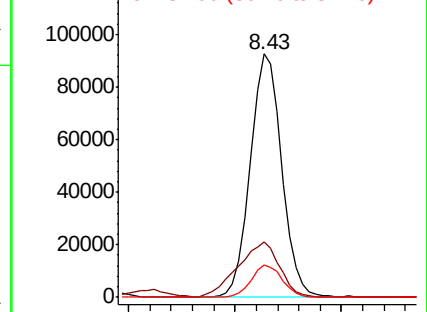
43 100

61 30.1 24.5 36.7

87 13.0 10.4 15.6



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



#44

Trichloroethene

Concen: 50.372 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VW004332.D

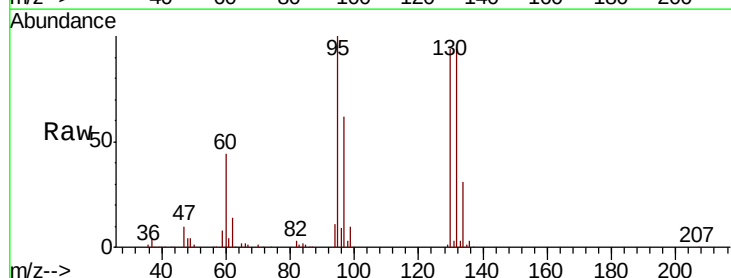
Acq: 30 Jul 2018 00:42

Tgt Ion:130 Resp: 159351

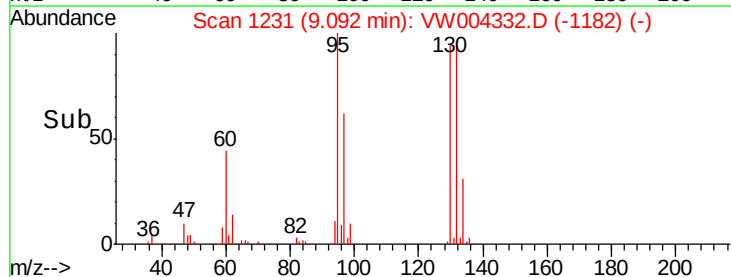
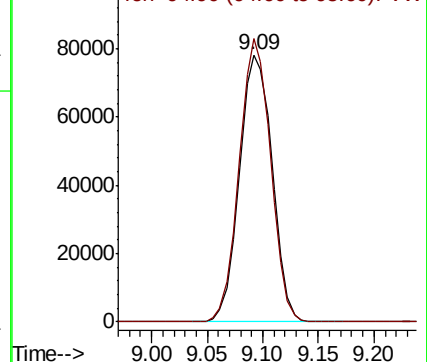
Ion Ratio Lower Upper

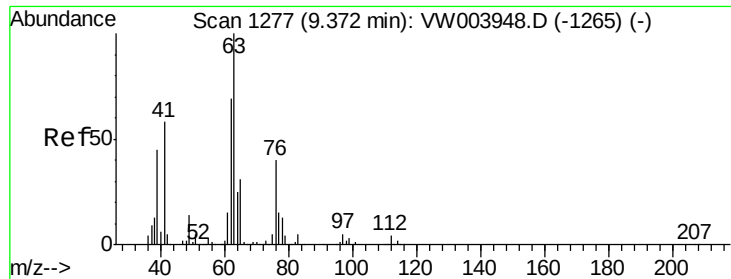
130 100

95 106.0 0.0 199.4



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

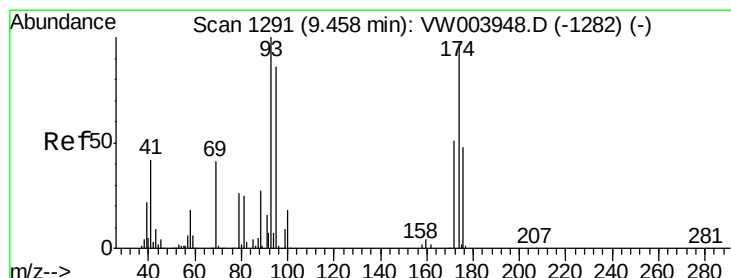
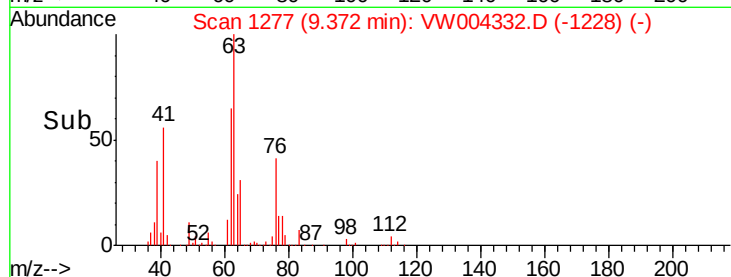
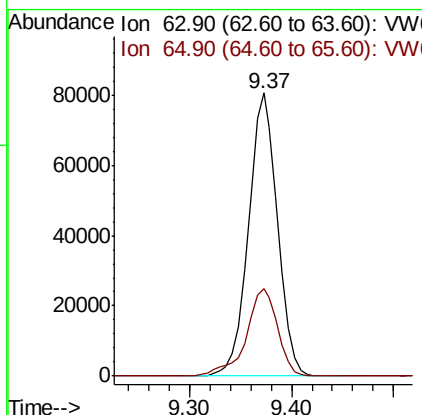
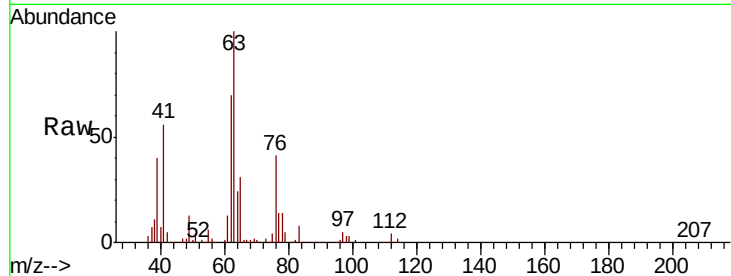




#45  
 1,2-Dichloropropane  
 Concen: 54.749 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

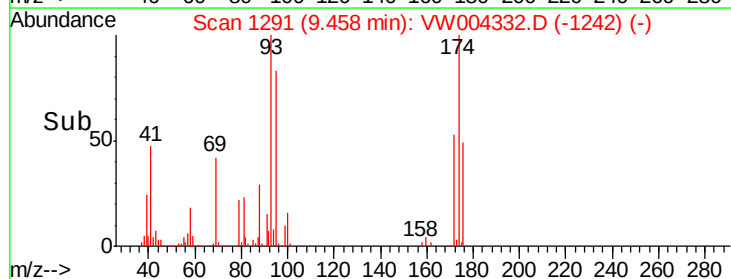
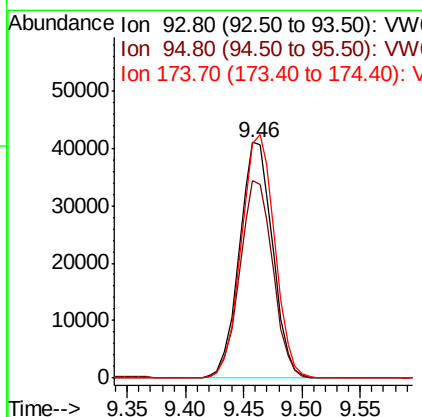
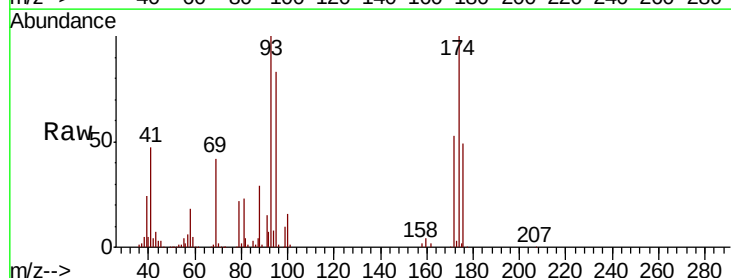
Instrument :  
 MSVOA\_W  
 ClientSampled :

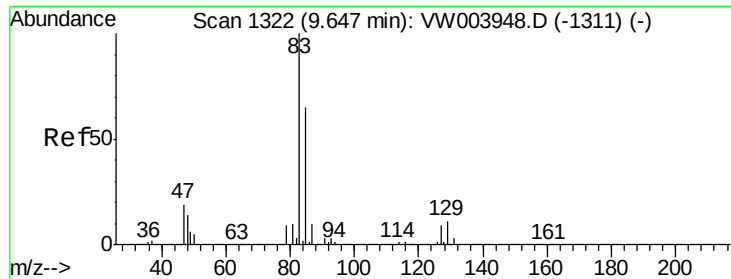
Tot Ion: 63 Resp: 159194  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 23.9 35.9



#46  
 Dibromomethane  
 Concen: 54.784 ug/l  
 RT: 9.46 min Scan# 1291  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 93 Resp: 81341  
 Ion Ratio Lower Upper  
 93 100  
 95 83.5 65.8 98.8  
 174 104.4 83.7 125.5

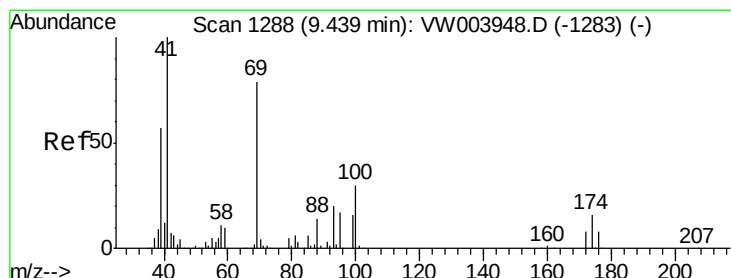
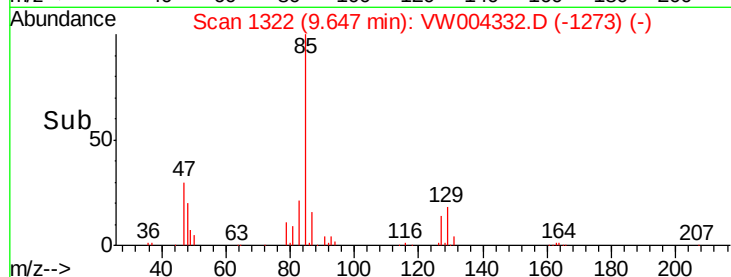
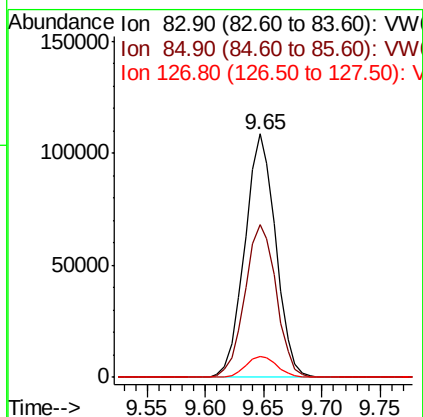
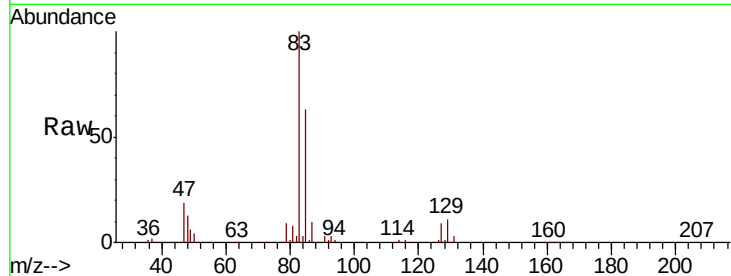




#47  
Bromodichloromethane  
Concen: 53.372 ug/l  
RT: 9.65 min Scan# 1322  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

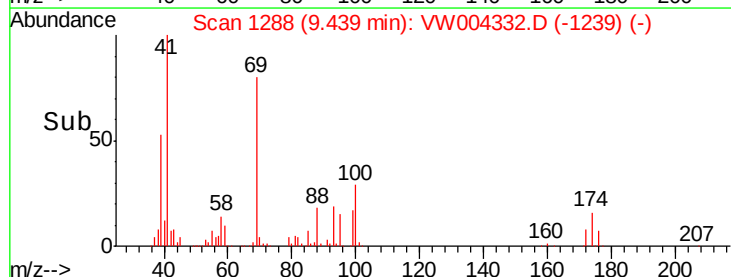
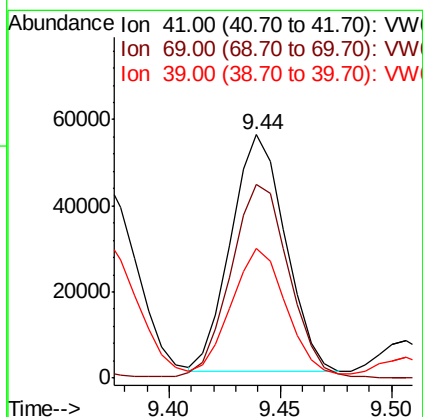
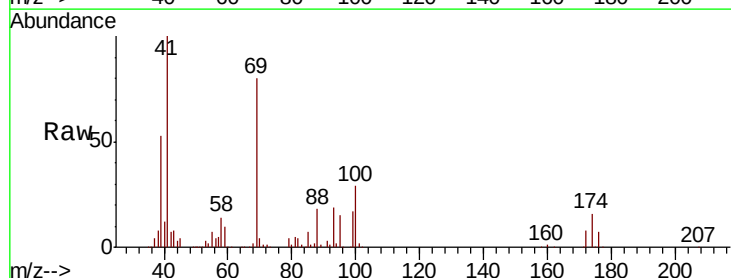
Instrument :  
MSVOA\_W  
ClientSampled :

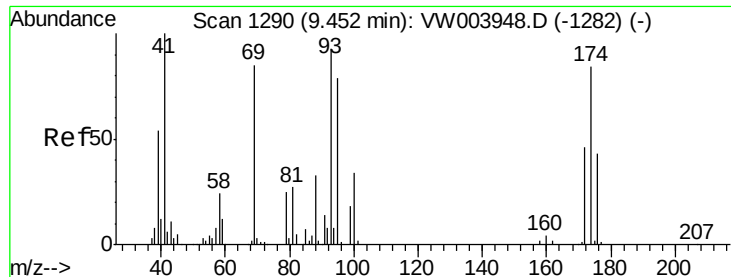
Tot Ion: 83 Resp: 201000  
Ion Ratio Lower Upper  
83 100  
85 62.8 51.3 76.9  
127 8.8 6.6 9.8



#48  
Methyl methacrylate  
Concen: 59.998 ug/l  
RT: 9.44 min Scan# 1288  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 41 Resp: 94001  
Ion Ratio Lower Upper  
41 100  
69 87.5 69.7 104.5  
39 56.3 41.8 62.8





#49

1,4-Dioxane

Concen: 1292.627 ug/l

RT: 9.45 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :  
MSVOA\_W  
ClientSampled :

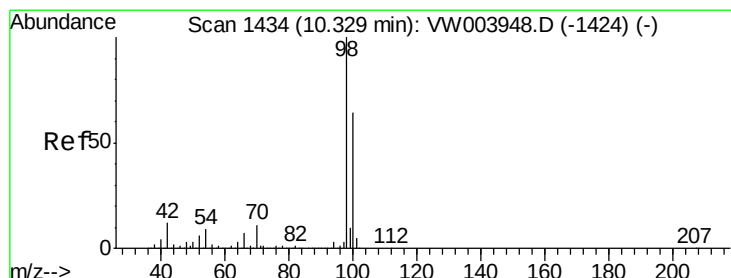
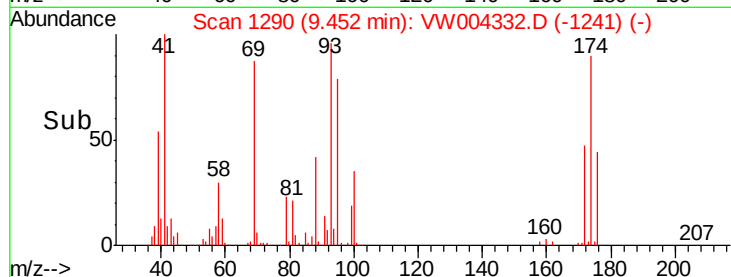
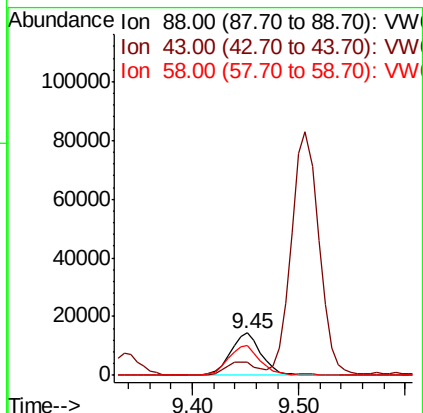
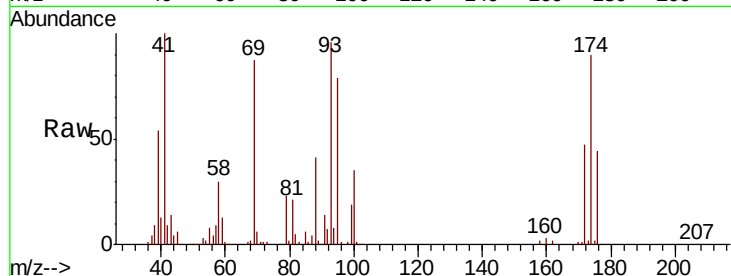
Tot Ion: 88 Resp: 29095

Ion Ratio Lower Upper

88 100

43 31.7 28.3 42.5

58 72.1 60.2 90.4



#50

Toluene-d8

Concen: 51.534 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004332.D

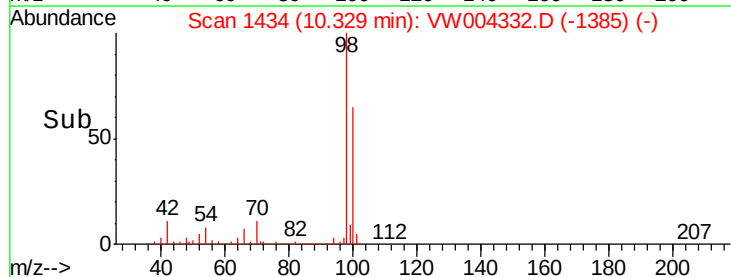
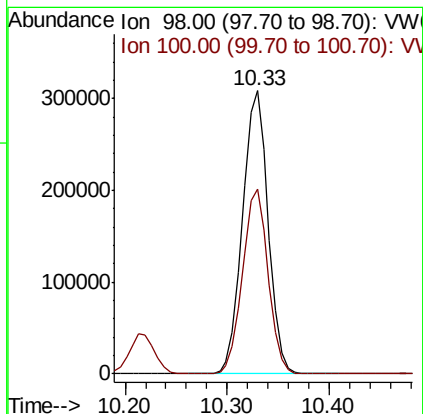
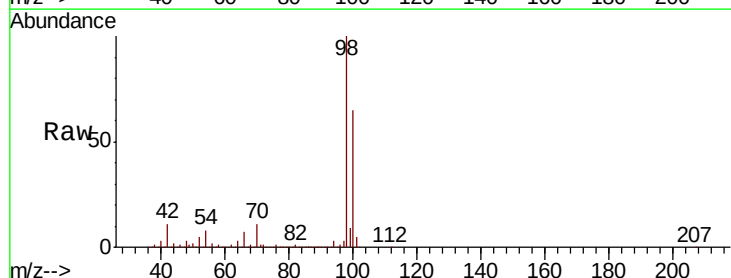
Acq: 30 Jul 2018 00:42

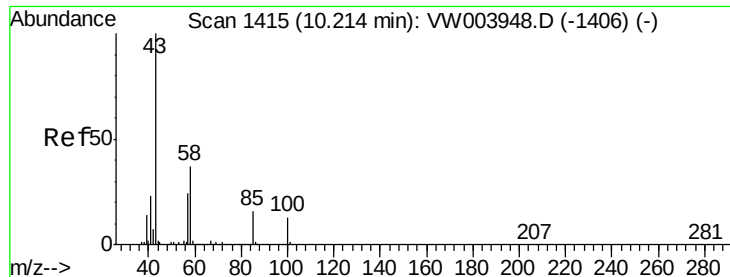
Tgt Ion: 98 Resp: 535907

Ion Ratio Lower Upper

98 100

100 65.1 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 306.070 ug/l

RT: 10.21 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

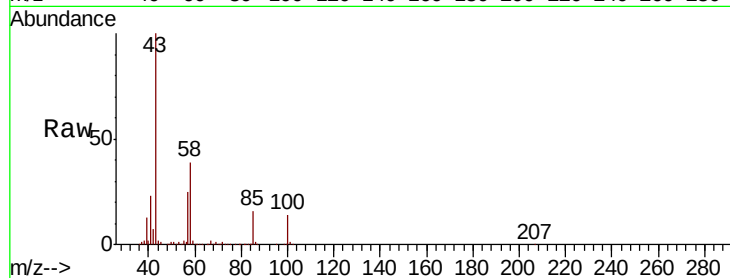
ClientSampleId :

Tot Ion: 43 Resp: 516752

Ion Ratio Lower Upper

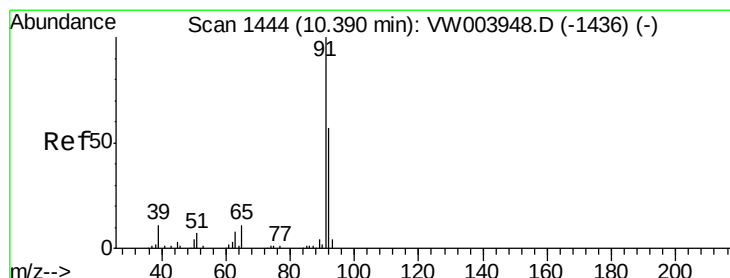
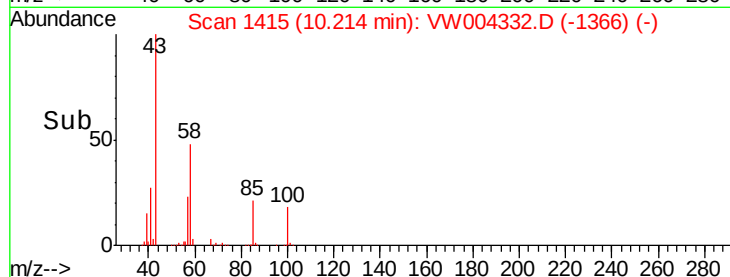
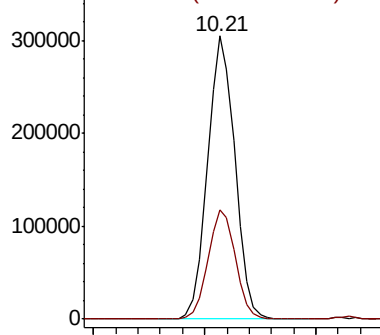
43 100

58 38.7 30.6 45.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 53.205 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004332.D

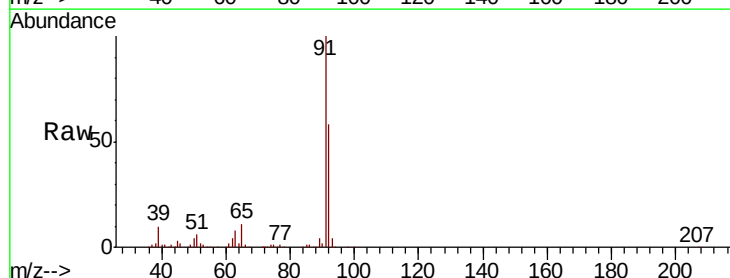
Acq: 30 Jul 2018 00:42

Tgt Ion: 92 Resp: 391425

Ion Ratio Lower Upper

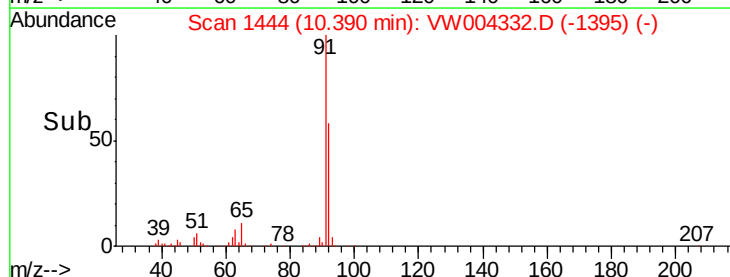
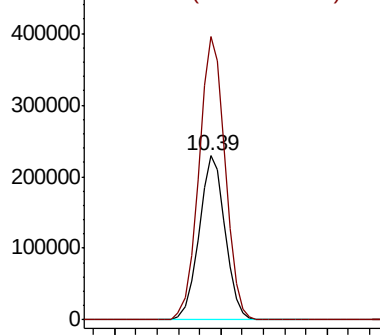
92 100

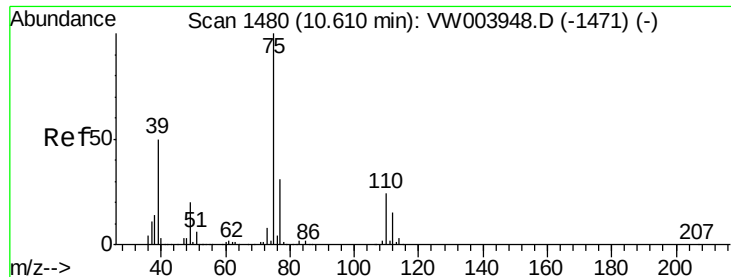
91 173.7 139.0 208.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 53.974 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

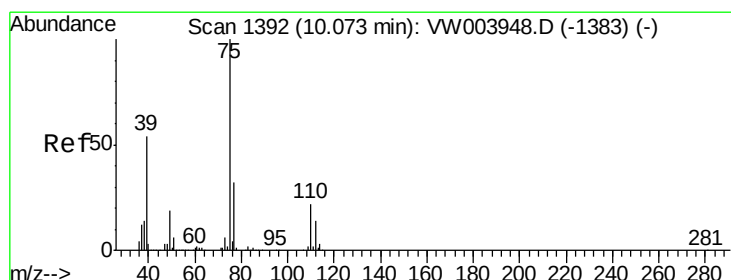
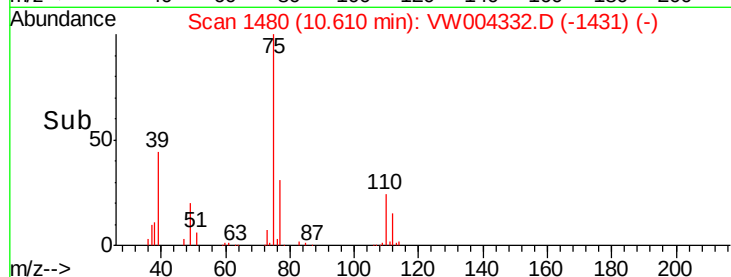
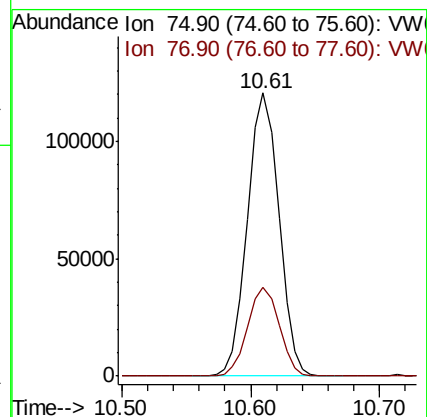
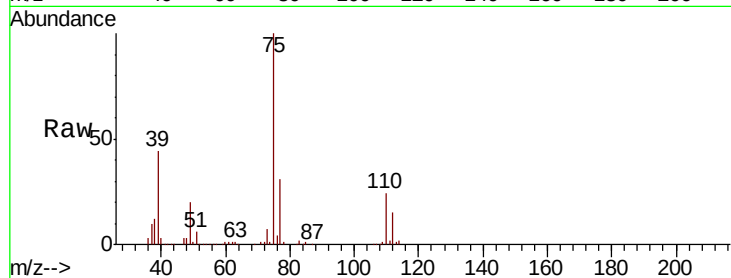
ClientSampled :

Tot Ion: 75 Resp: 203585

Ion Ratio Lower Upper

75 100

77 31.2 25.8 38.6



#54

cis-1,3-Dichloropropene

Concen: 52.793 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

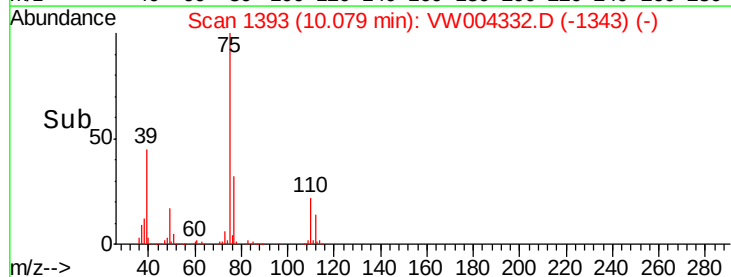
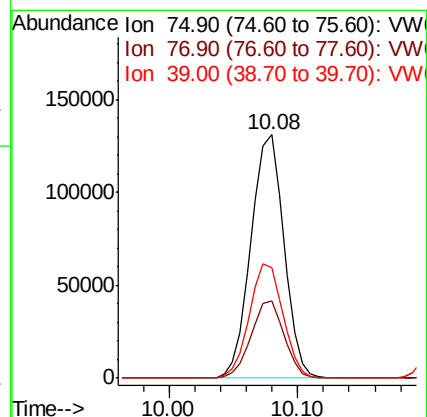
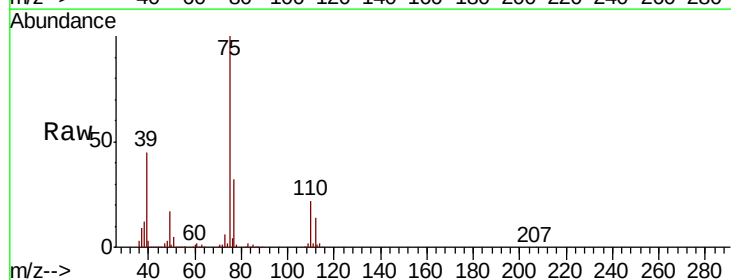
Tgt Ion: 75 Resp: 232148

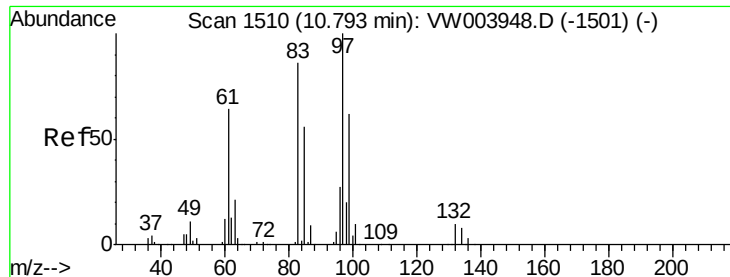
Ion Ratio Lower Upper

75 100

77 31.6 25.0 37.4

39 45.4 39.0 58.6



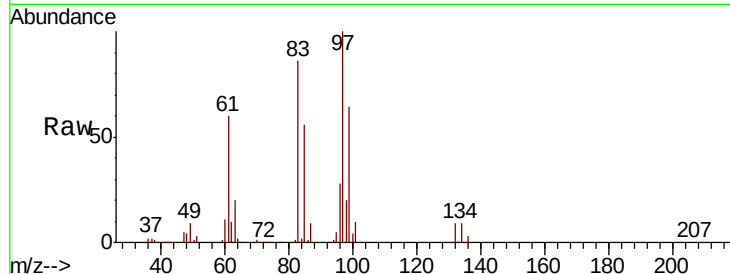


#55  
 1,1,2-Trichloroethane  
 Concen: 54.793 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. 0.01 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 97 Resp: 115914

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 85.8  | 70.8  | 106.2 |
| 85  | 56.0  | 43.7  | 65.5  |
| 99  | 64.1  | 45.1  | 67.7  |



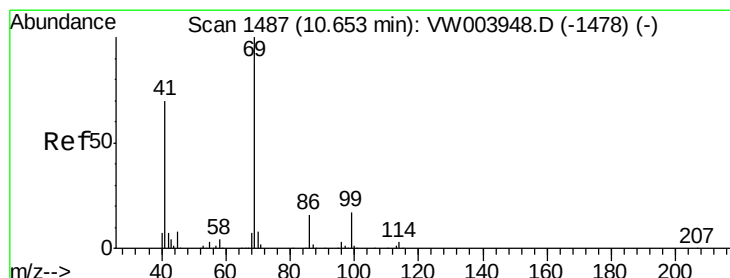
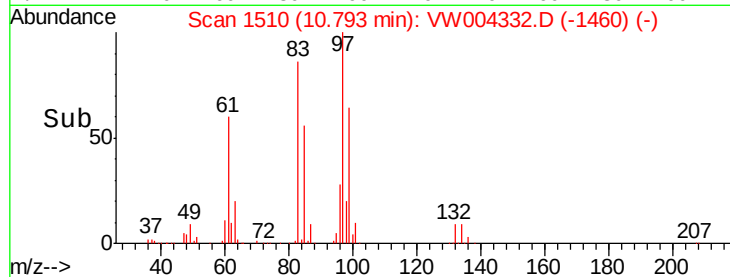
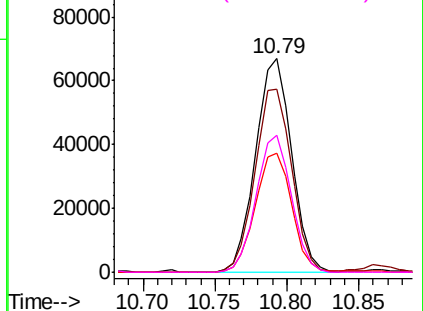
Abundance

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

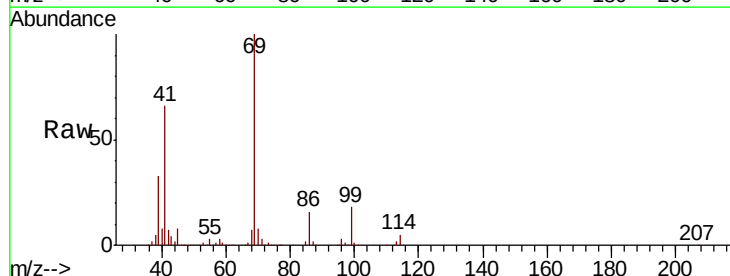
Ion 98.90 (98.60 to 99.60): VW



#56  
 Ethyl methacrylate  
 Concen: 60.718 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 69 Resp: 155438

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 66.8  | 54.7  | 82.1  |
| 39  | 30.6  | 24.4  | 36.6  |

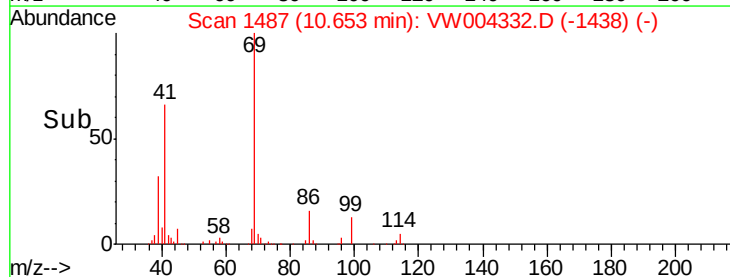
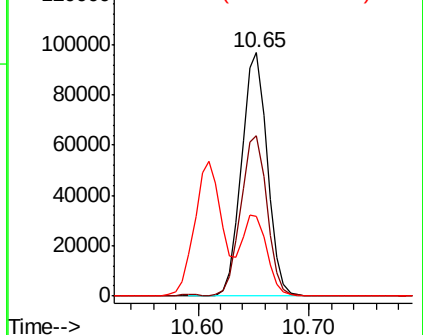


Abundance

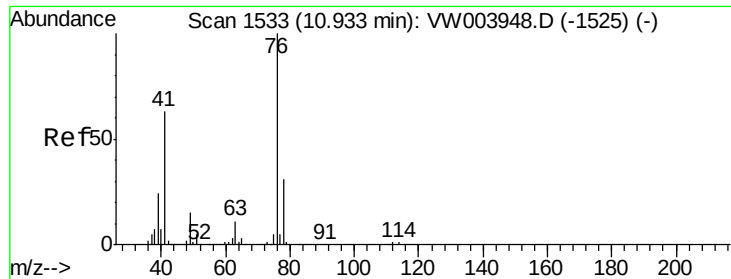
Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



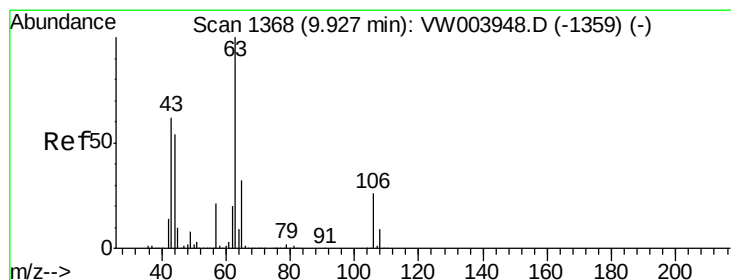
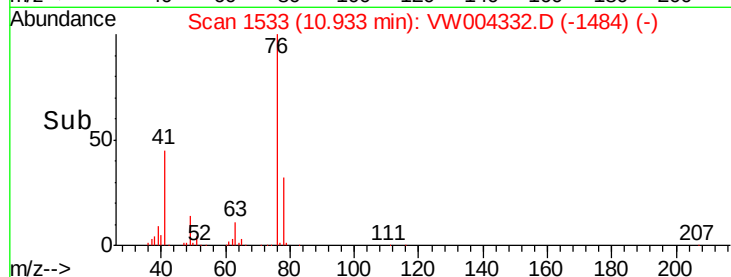
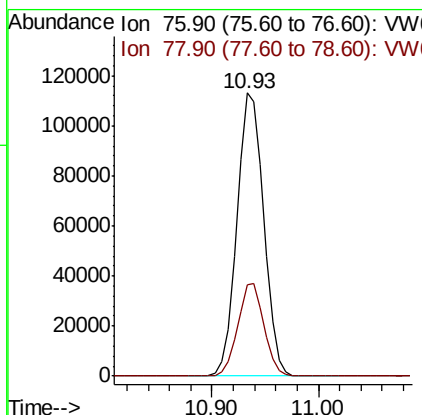
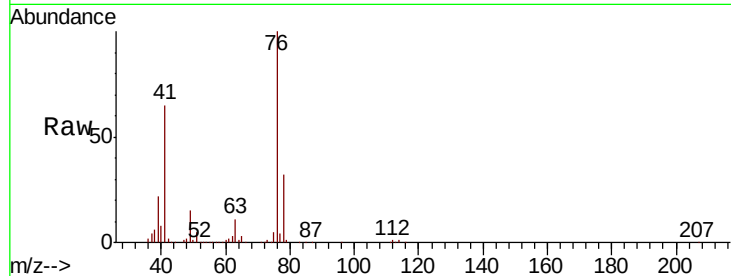




#57  
 1,3-Dichloropropane  
 Concen: 55.400 ug/l  
 RT: 10.93 min Scan# 1533  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

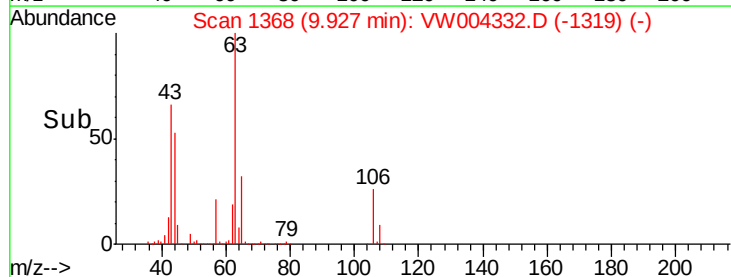
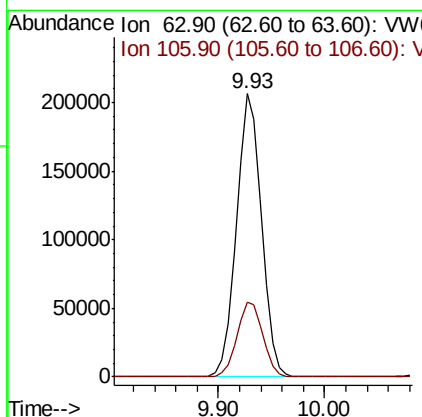
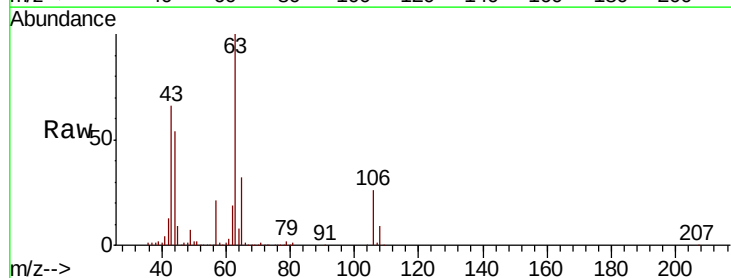
Instrument :  
 MSVOA\_W  
 ClientSampleId :

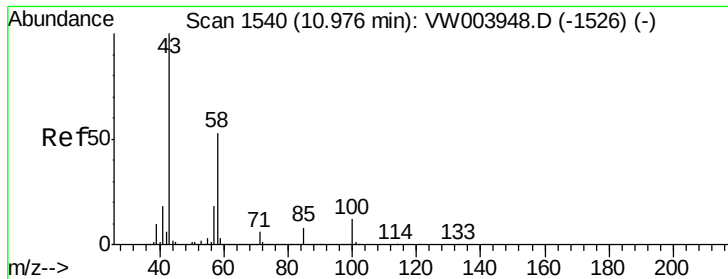
Tot Ion: 76 Resp: 199672  
 Ion Ratio Lower Upper  
 76 100  
 78 32.2 25.6 38.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 298.962 ug/l  
 RT: 9.93 min Scan# 1368  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 63 Resp: 339982  
 Ion Ratio Lower Upper  
 63 100  
 106 27.2 21.9 32.9

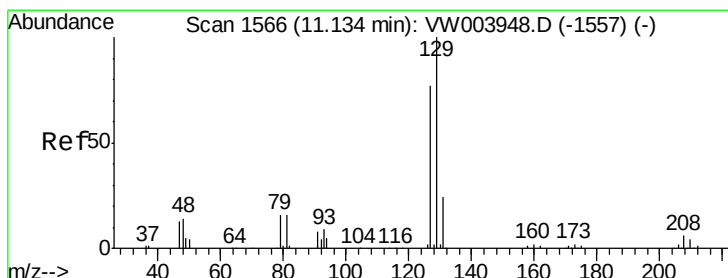
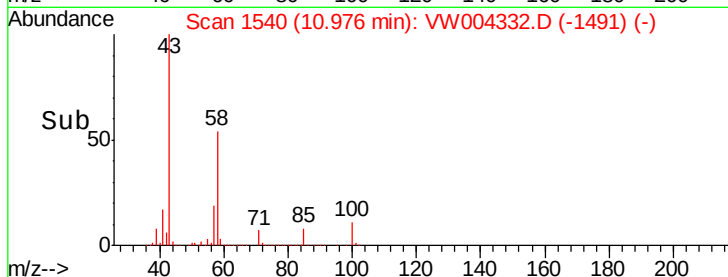
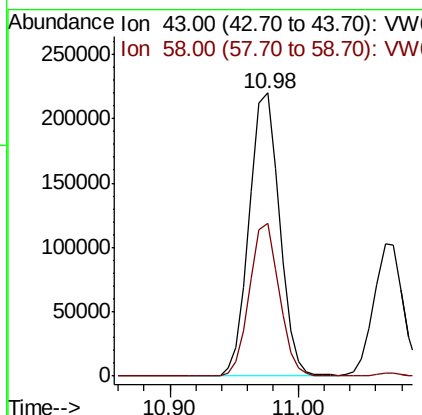
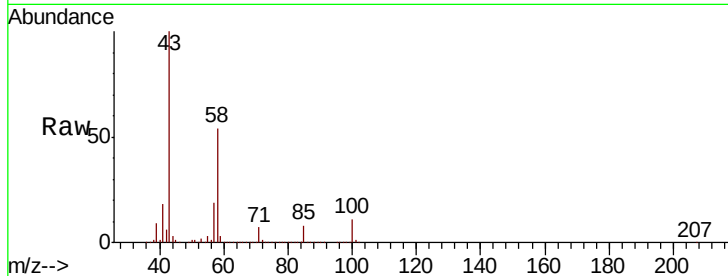




#59  
2-Hexanone  
Concen: 308.477 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

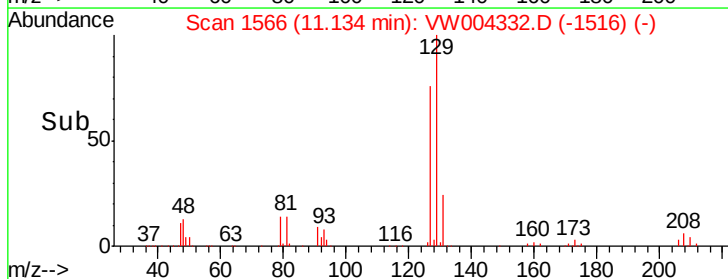
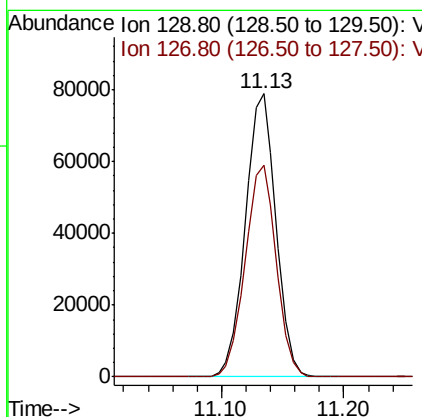
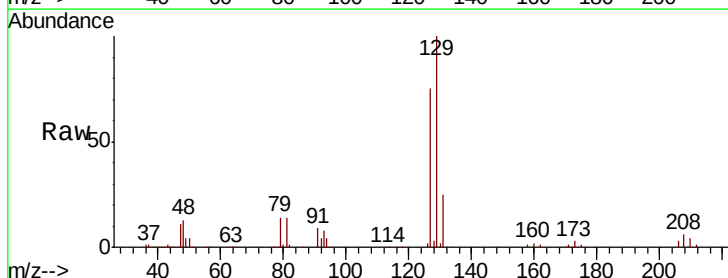
Instrument :  
MSVOA\_W  
ClientSampleId :

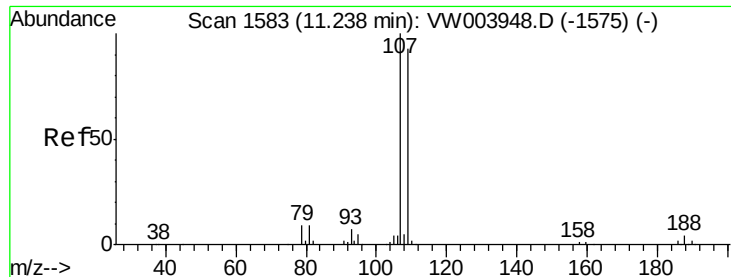
Tot Ion: 43 Resp: 357612  
Ion Ratio Lower Upper  
43 100  
58 53.1 26.5 79.4



#60  
Dibromochloromethane  
Concen: 54.181 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. 0.01 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 129 Resp: 137148  
Ion Ratio Lower Upper  
129 100  
127 75.9 38.9 116.7

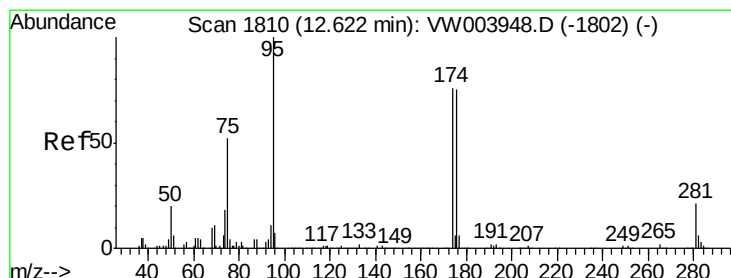
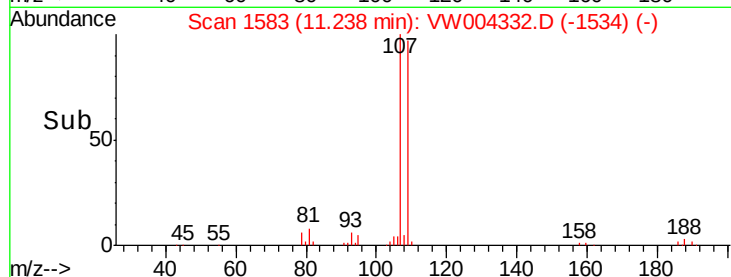
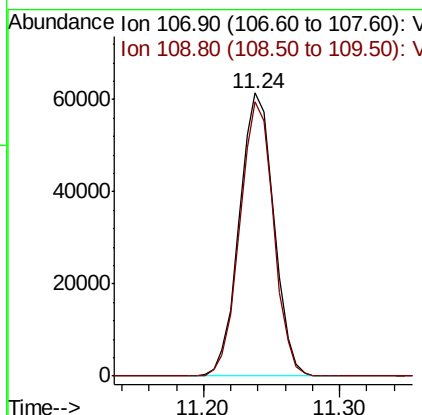
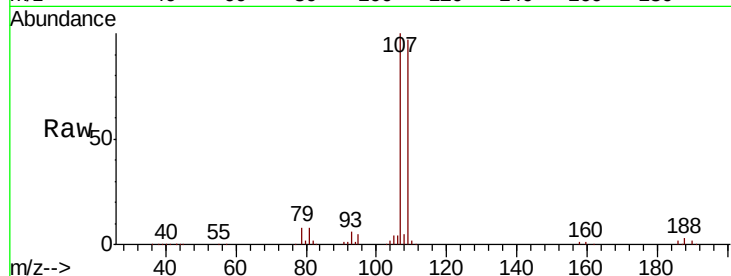




#61  
 1,2-Dibromoethane  
 Concen: 54.097 ug/l  
 RT: 11.24 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

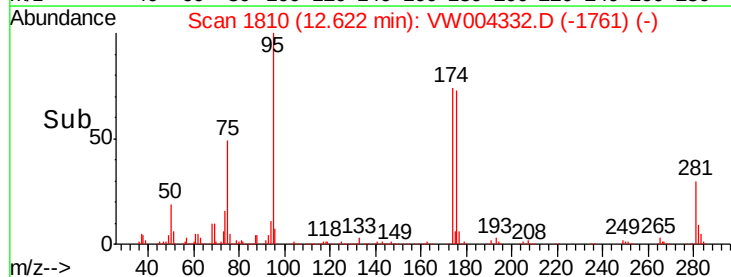
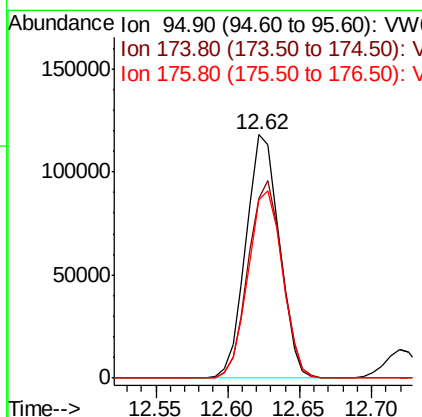
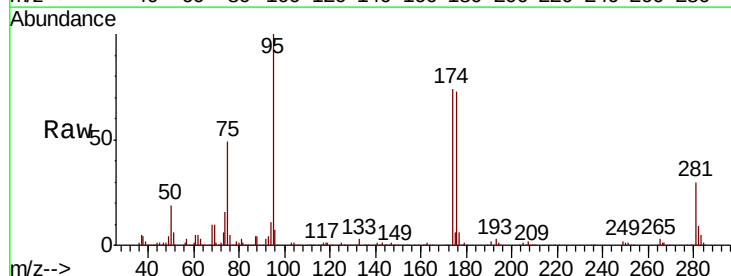
Instrument :  
 MSVOA\_W  
 ClientSampleId :

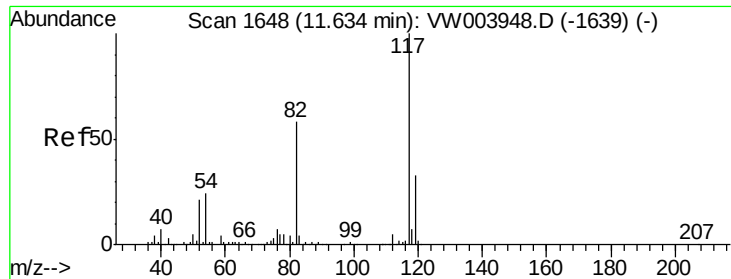
Tot Ion:107 Resp: 109132  
 Ion Ratio Lower Upper  
 107 100  
 109 94.6 74.6 112.0



#62  
 4-Bromofluorobenzene  
 Concen: 51.709 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 95 Resp: 189333  
 Ion Ratio Lower Upper  
 95 100  
 174 82.3 0.0 167.8  
 176 79.3 0.0 162.4

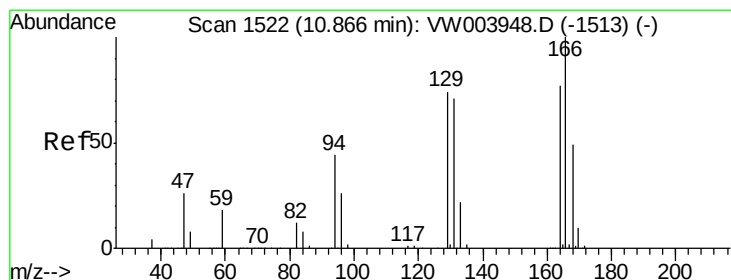
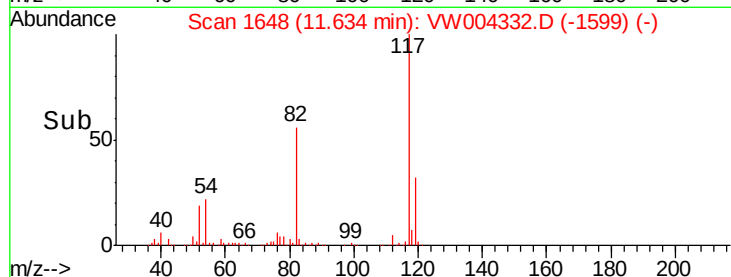
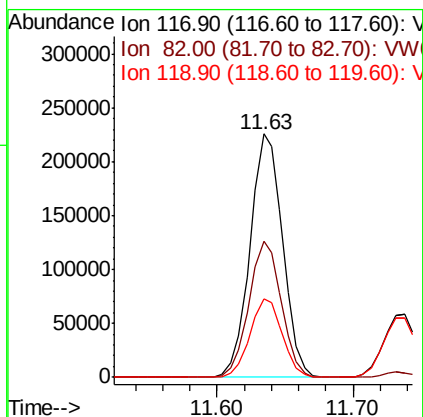
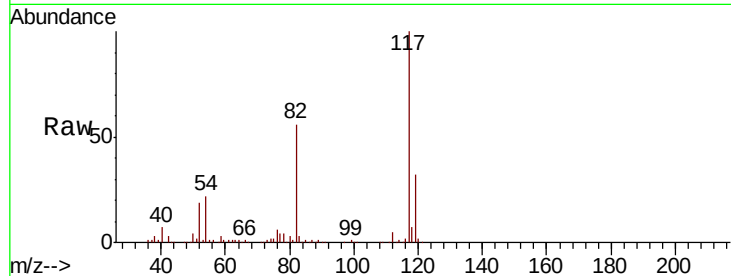




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

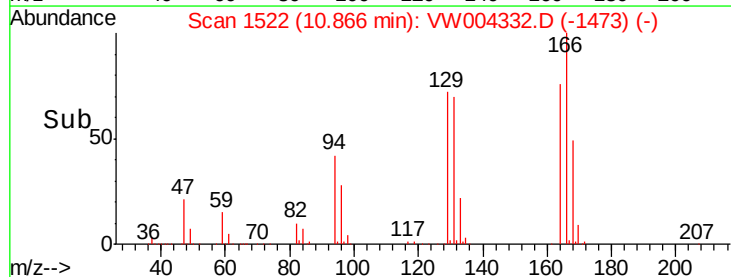
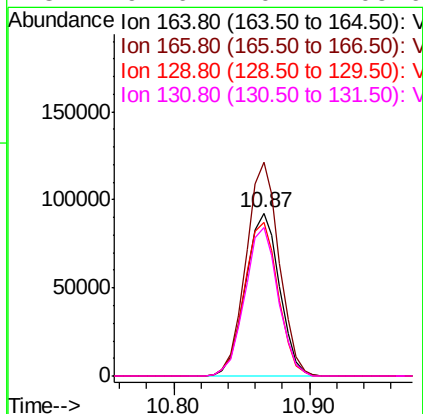
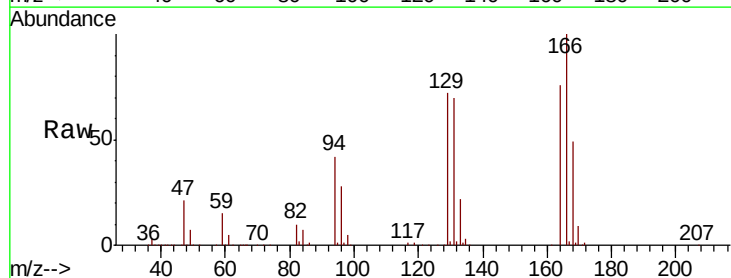
Instrument :  
MSVOA\_W  
ClientSampled :

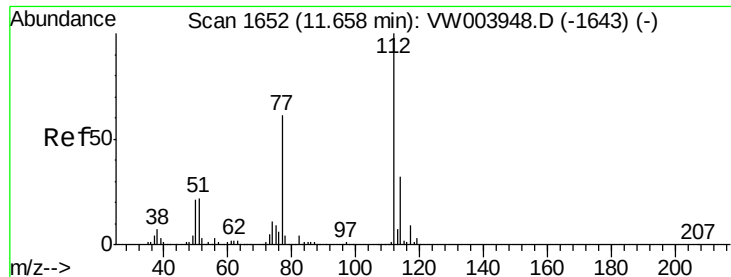
Tot Ion:117 Resp: 378545  
Ion Ratio Lower Upper  
117 100  
82 56.0 47.9 71.9  
119 32.3 27.1 40.7



#64  
Tetrachloroethene  
Concen: 58.145 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion:164 Resp: 161258  
Ion Ratio Lower Upper  
164 100  
166 131.3 103.2 154.8  
129 94.8 72.1 108.1  
131 91.6 70.4 105.6

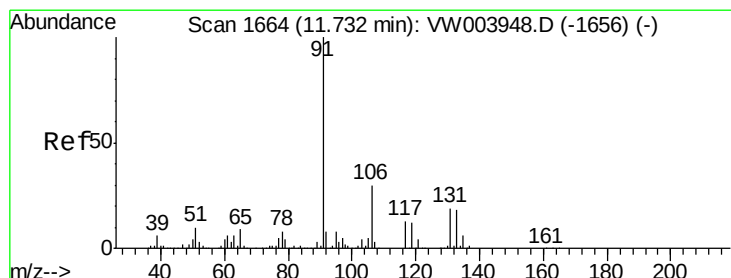
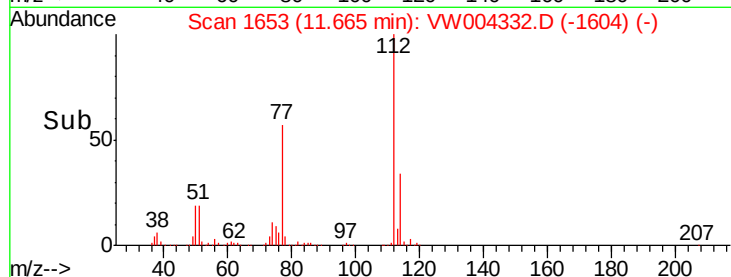
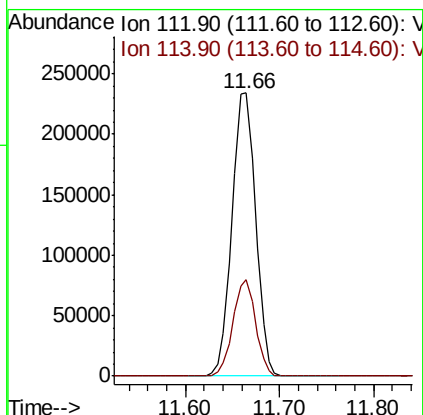
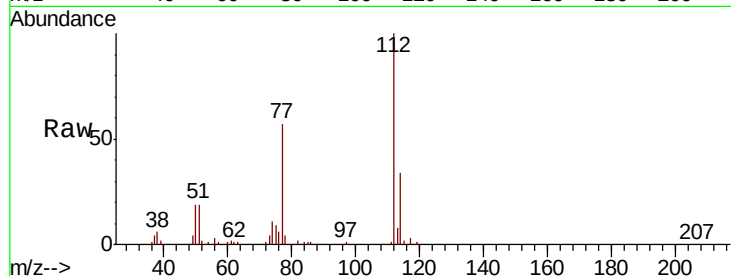




#65  
Chlorobenzene  
Concen: 51.578 ug/l  
RT: 11.66 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

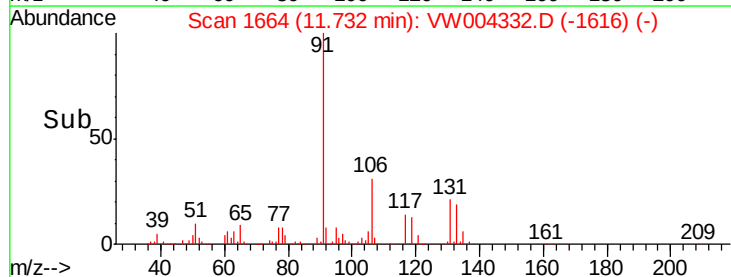
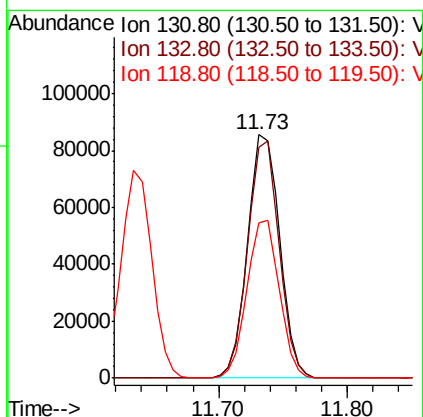
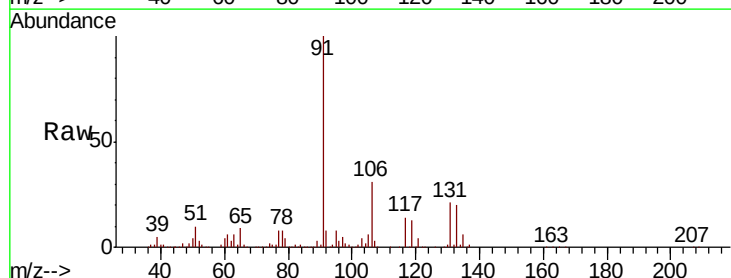
Instrument :  
MSVOA\_W  
ClientSampleId :

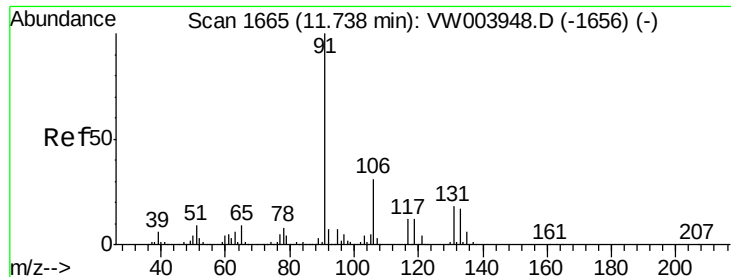
Tot Ion:112 Resp: 410063  
Ion Ratio Lower Upper  
112 100  
114 34.2 24.7 37.1



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.499 ug/l  
RT: 11.73 min Scan# 1664  
Delta R.T. -0.01 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion:131 Resp: 147211  
Ion Ratio Lower Upper  
131 100  
133 95.5 48.6 145.9  
119 65.3 33.1 99.5

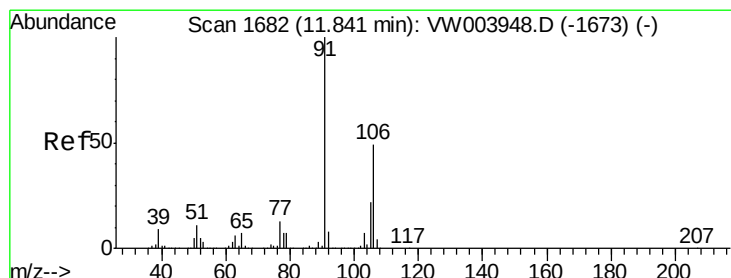
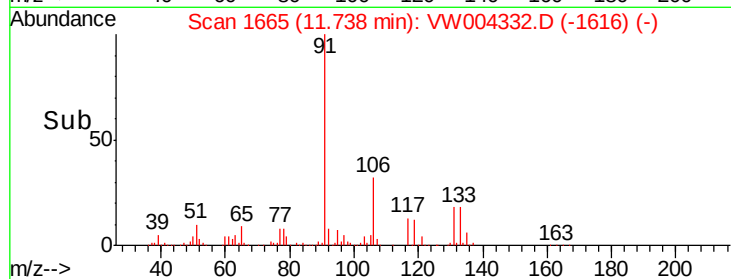
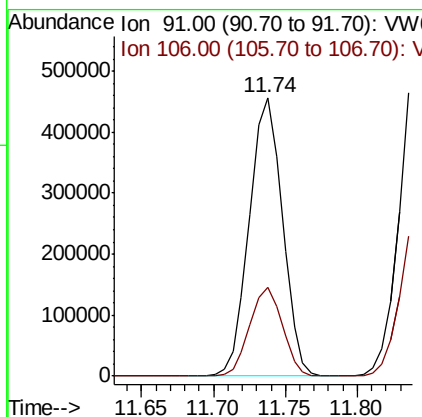
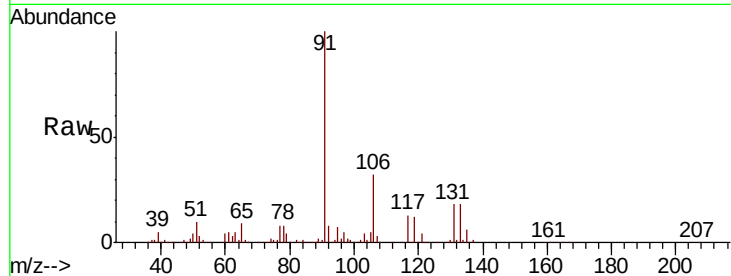




#67  
Ethyl Benzene  
Concen: 52.577 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

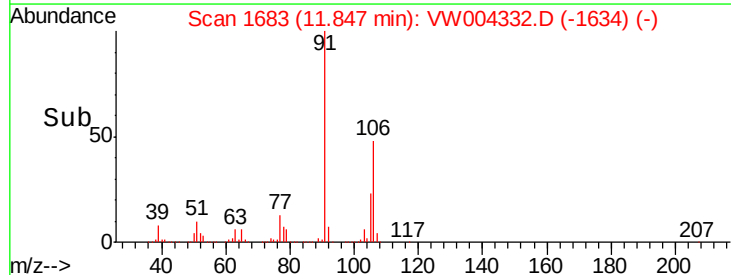
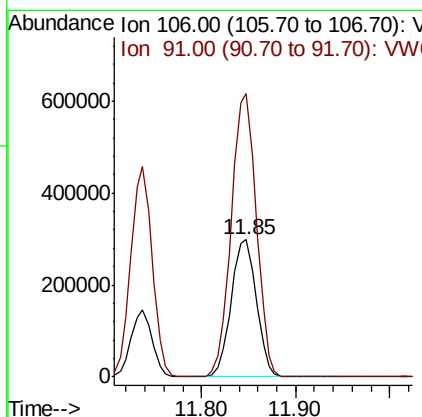
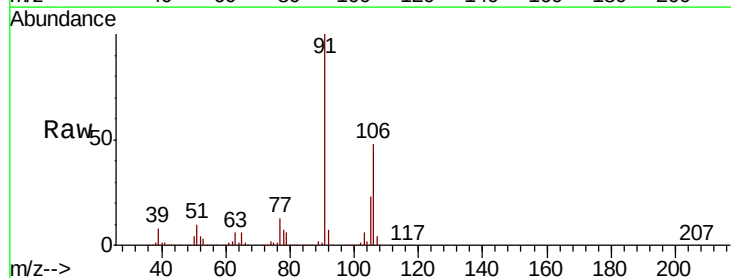
Instrument :  
MSVOA\_W  
ClientSampled :

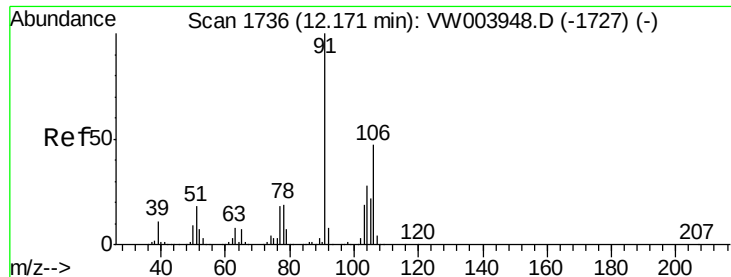
Tot Ion: 91 Resp: 728637  
Ion Ratio Lower Upper  
91 100  
106 32.1 26.1 39.1



#68  
m/p-Xylenes  
Concen: 104.003 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion: 106 Resp: 554629  
Ion Ratio Lower Upper  
106 100  
91 205.6 162.2 243.2

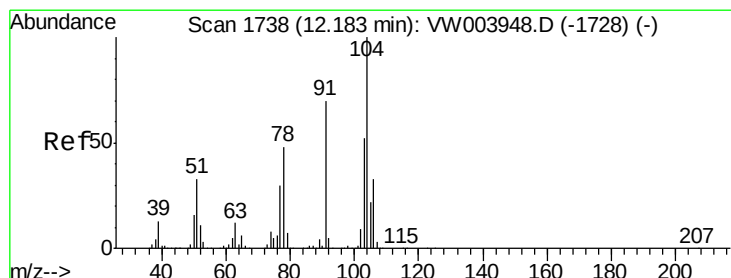
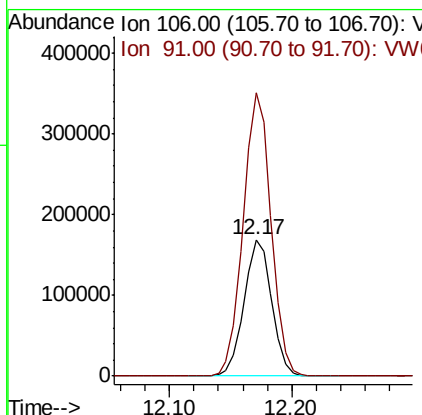
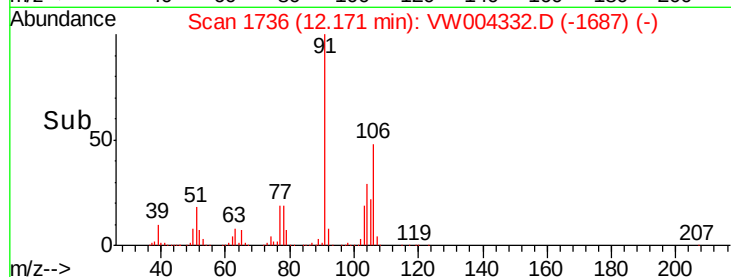
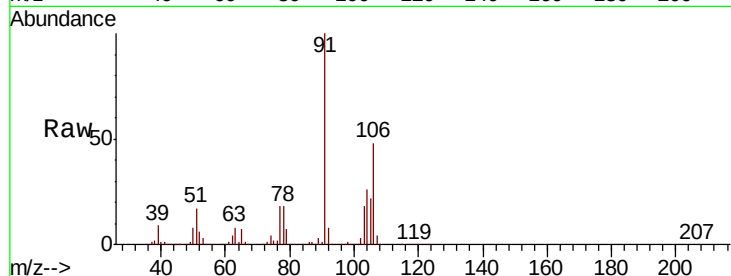




#69  
o-Xylene  
Concen: 53.856 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

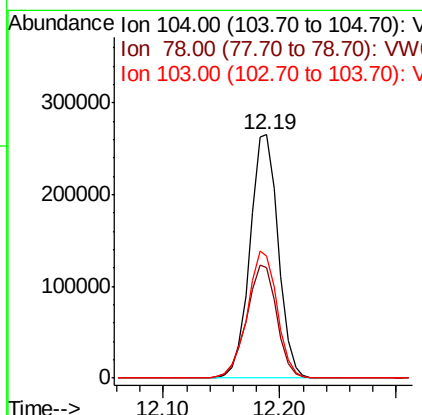
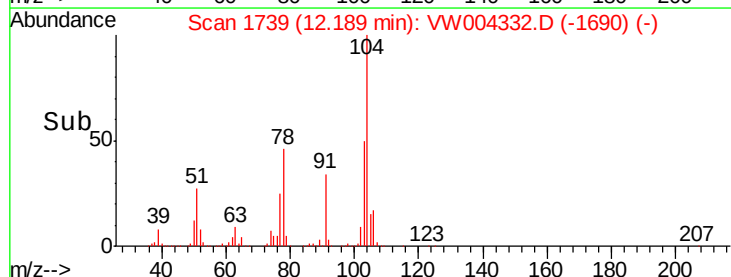
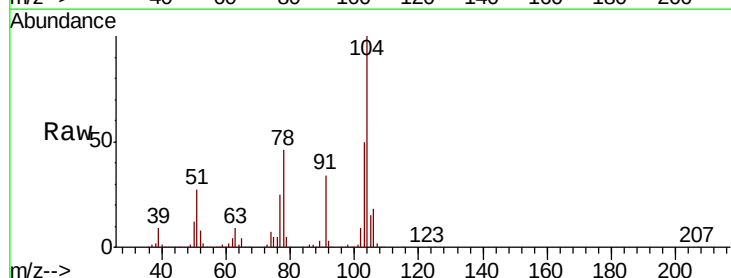
Instrument :  
MSVOA\_W  
ClientSampleId :

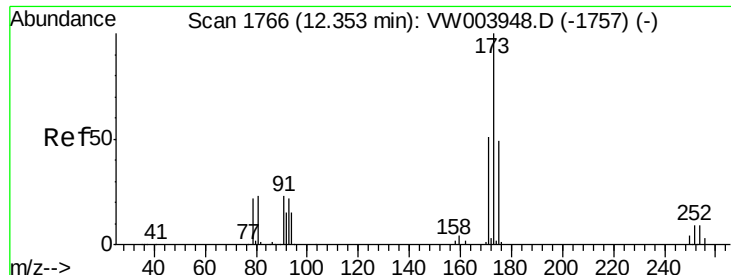
Tot Ion:106 Resp: 265369  
Ion Ratio Lower Upper  
106 100  
91 209.6 108.7 326.1



#70  
Styrene  
Concen: 53.759 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion:104 Resp: 447524  
Ion Ratio Lower Upper  
104 100  
78 49.8 40.9 61.3  
103 55.1 45.0 67.6





#71

Bromoform

Concen: 53.967 ug/l

RT: 12.35 min Scan# 1766

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

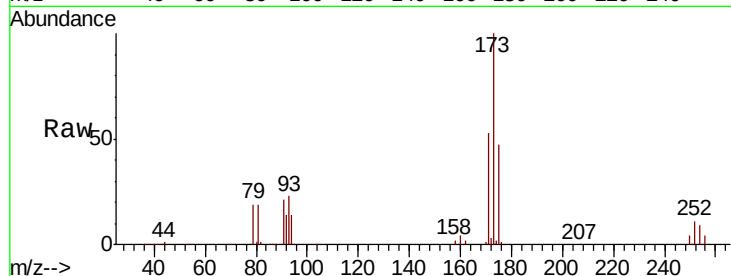
Tot Ion:173 Resp: 84809

Ion Ratio Lower Upper

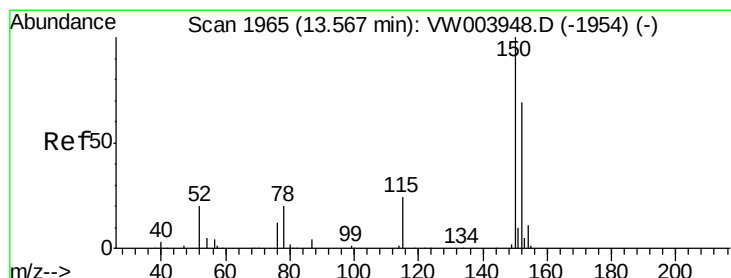
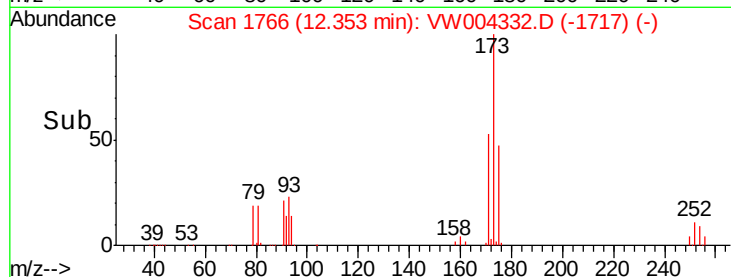
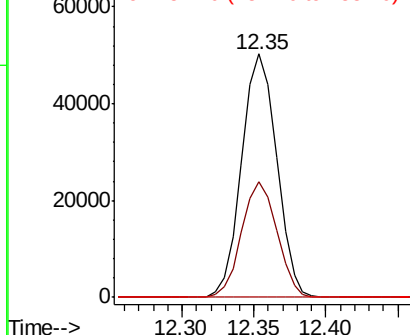
173 100

175 48.1 24.5 73.5

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# 1965

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

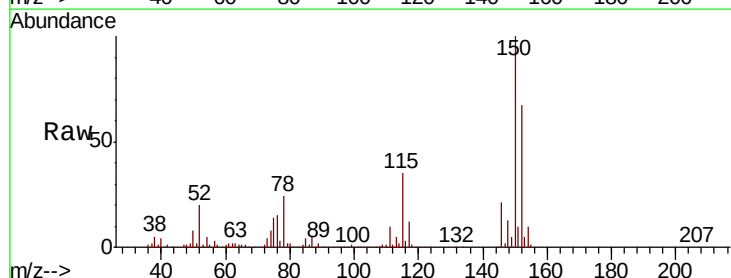
Tgt Ion:152 Resp: 198292

Ion Ratio Lower Upper

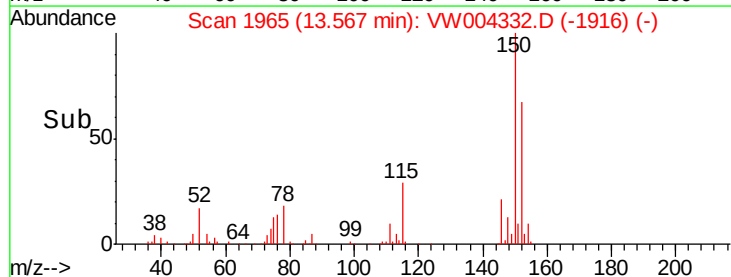
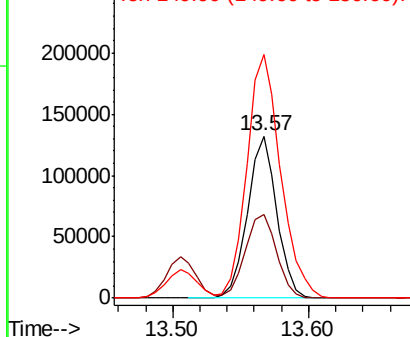
152 100

115 56.2 28.8 86.4

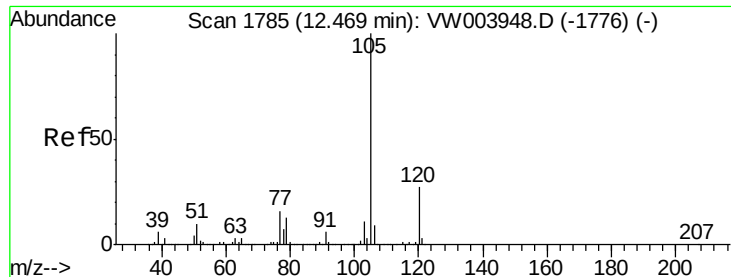
150 174.5 0.0 346.4



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







#73

Isopropylbenzene

Concen: 53.236 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

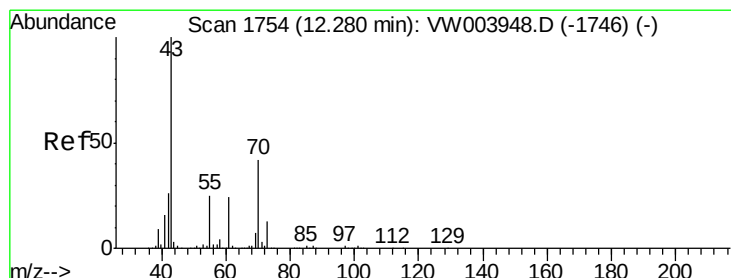
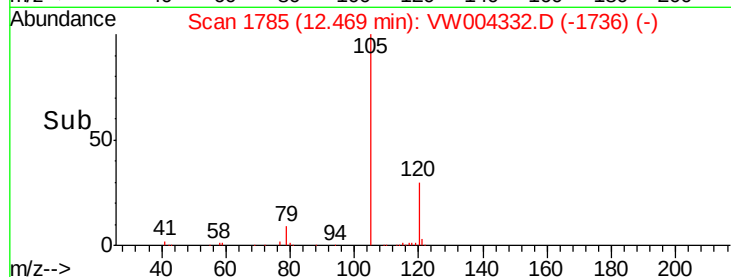
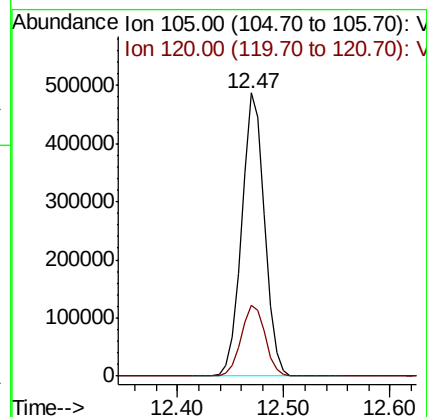
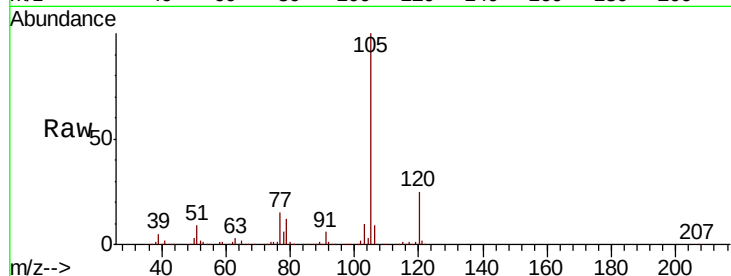
ClientSampled :

Tot Ion:105 Resp: 731964

Ion Ratio Lower Upper

105 100

120 26.4 13.2 39.6



#74

N-ethyl acetate

Concen: 55.026 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Tgt Ion: 43 Resp: 181609

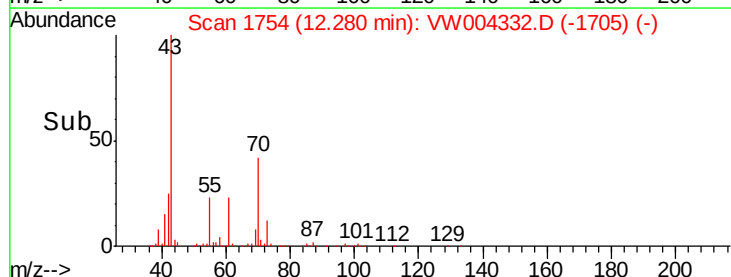
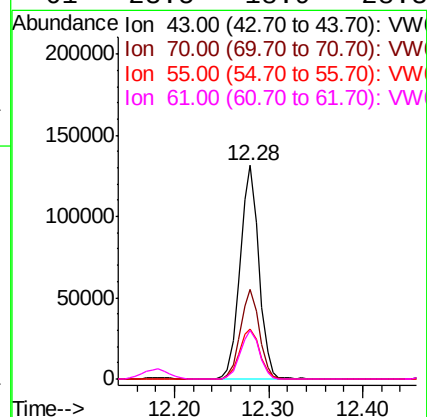
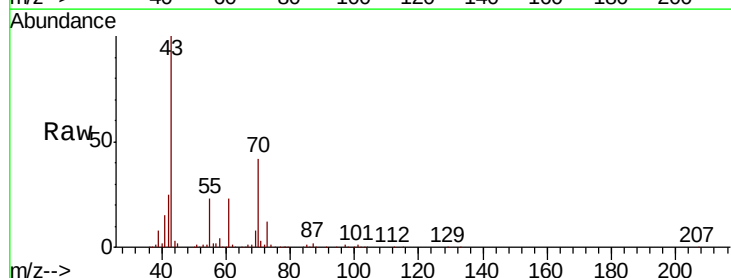
Ion Ratio Lower Upper

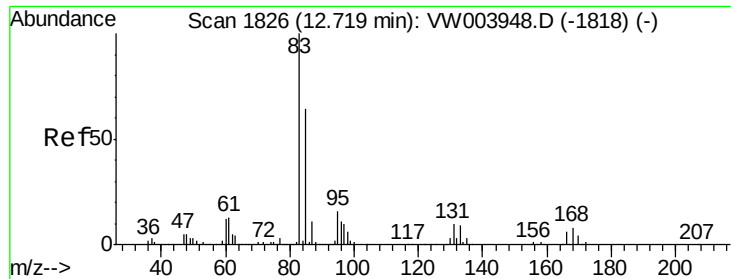
43 100

70 42.4 34.2 51.4

55 25.4 21.8 32.8

61 23.5 18.9 28.3

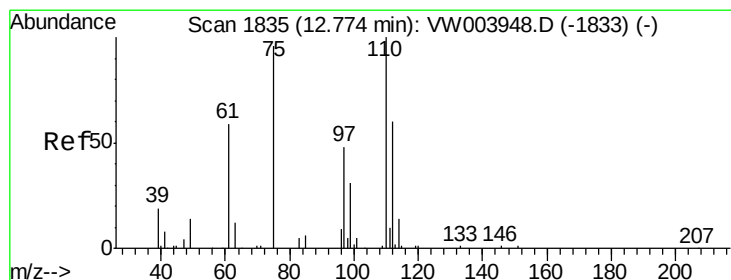
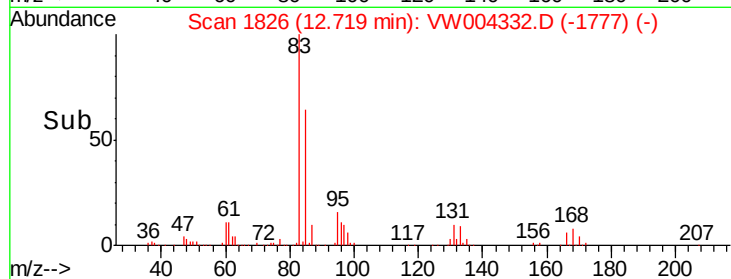
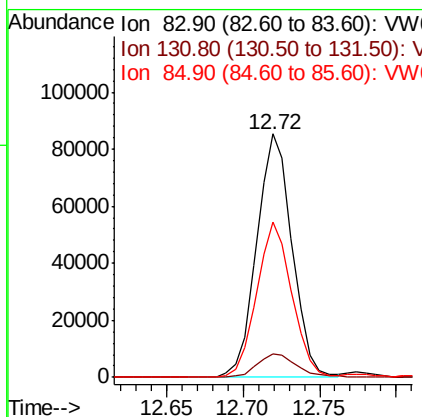
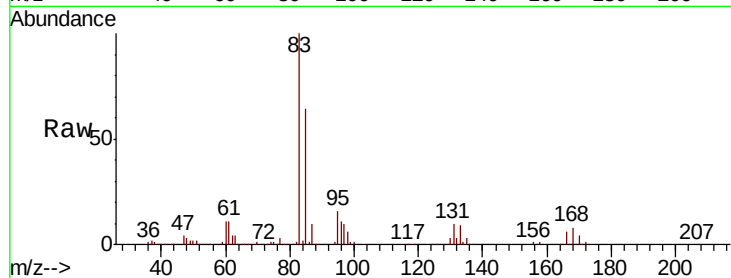




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 56.958 ug/l  
 RT: 12.72 min Scan# 1826  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

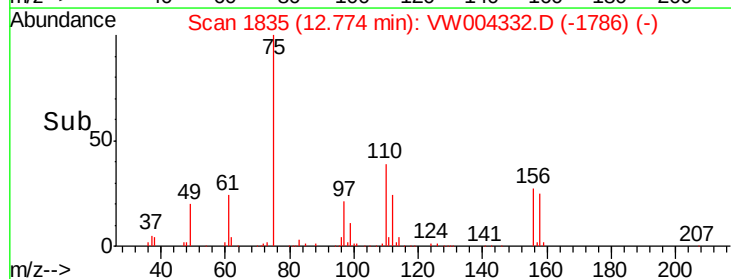
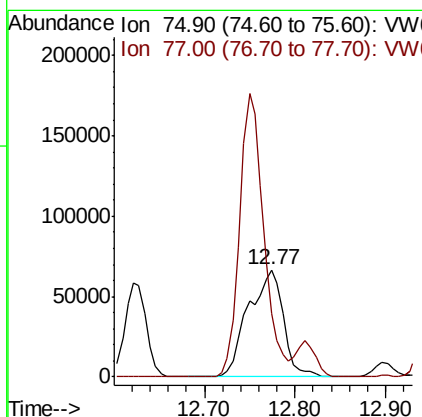
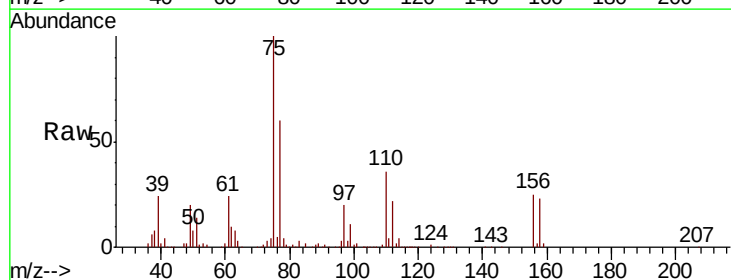
Instrument :  
 MSVOA\_W  
 ClientSampled :

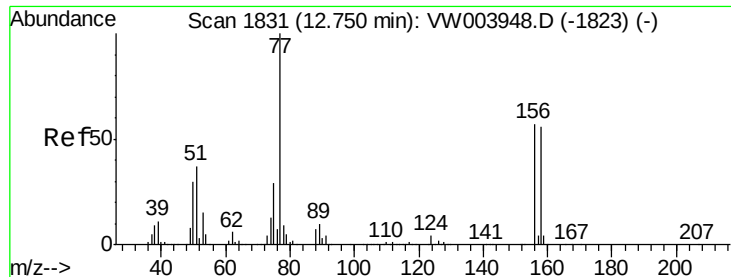
| Tot Ion   | 83   | Resp | 137186 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 5.5  |      |        |
| Upper     | 16.4 |      |        |
| 85        | 63.6 | 31.9 | 95.9   |



#76  
 1,2,3-Trichloropropane  
 Concen: 98.159 ug/l  
 RT: 12.77 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

| Tgt Ion   | 75  | Resp | 177639 |
|-----------|-----|------|--------|
| Ion Ratio | 100 |      |        |
| Lower     | 0.0 |      |        |
| Upper     | 0.0 |      |        |
| 77        | 0.0 | 0.0  | 0.0    |





#77

Bromobenzene

Concen: 52.633 ug/l

RT: 12.75 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

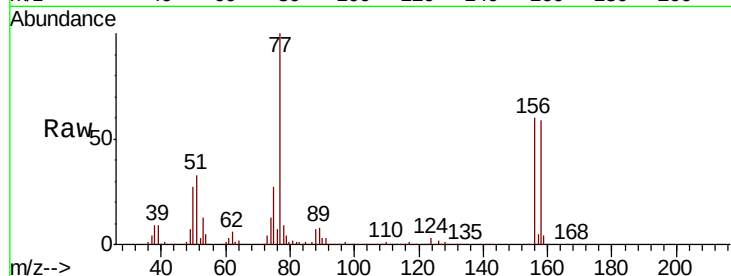
Tot Ion:156 Resp: 174854

Ion Ratio Lower Upper

156 100

77 186.5 92.9 278.7

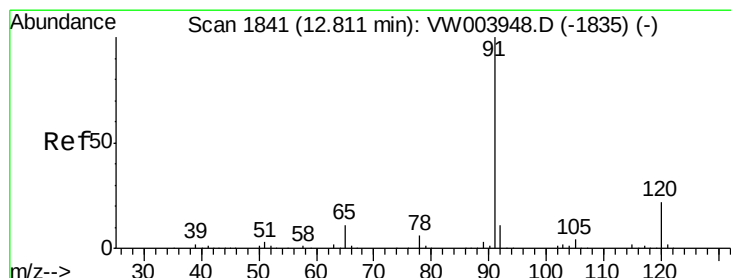
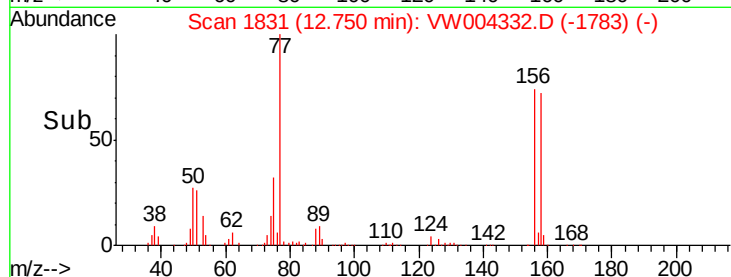
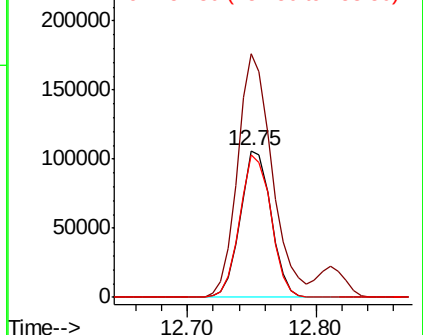
158 98.4 47.6 142.8



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: 53.803 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW004332.D

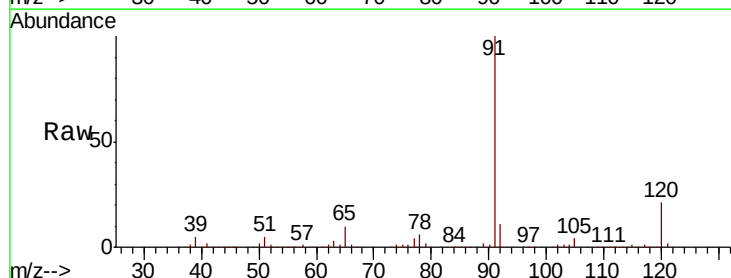
Acq: 30 Jul 2018 00:42

Tgt Ion: 91 Resp: 901195

Ion Ratio Lower Upper

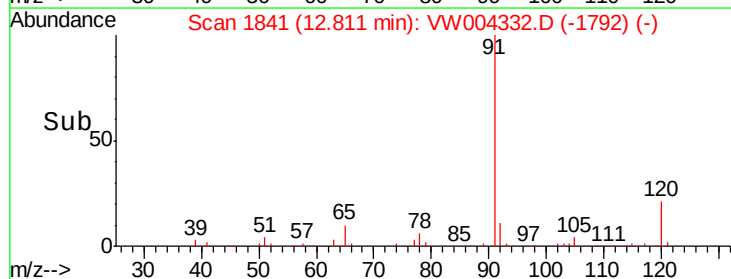
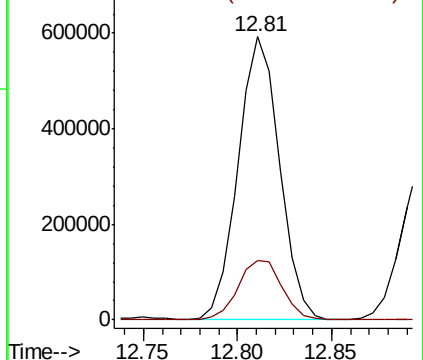
91 100

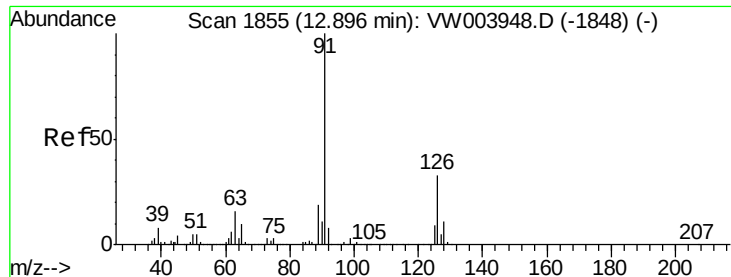
120 22.3 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.672 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

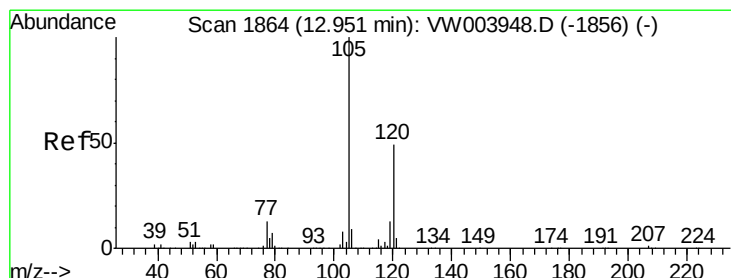
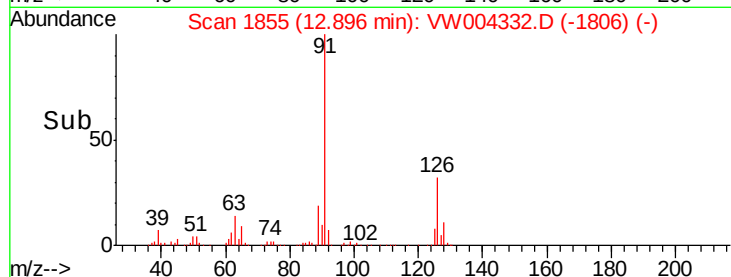
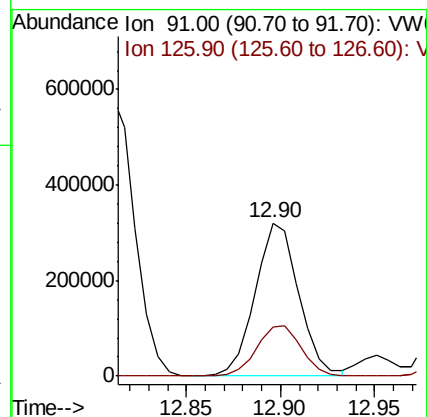
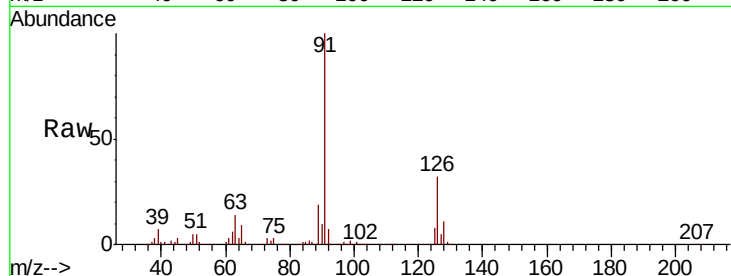
ClientSampled :

Tot Ion: 91 Resp: 514206

Ion Ratio Lower Upper

91 100

126 33.7 17.1 51.2



#80

1,3,5-Trimethylbenzene

Concen: 51.600 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW004332.D

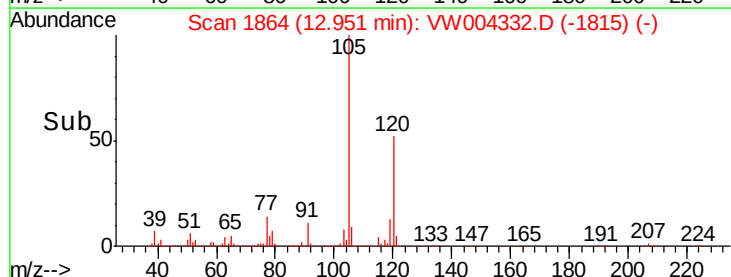
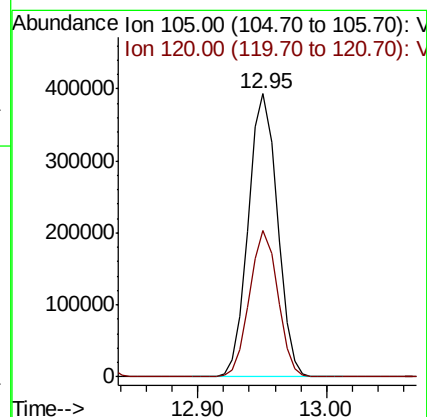
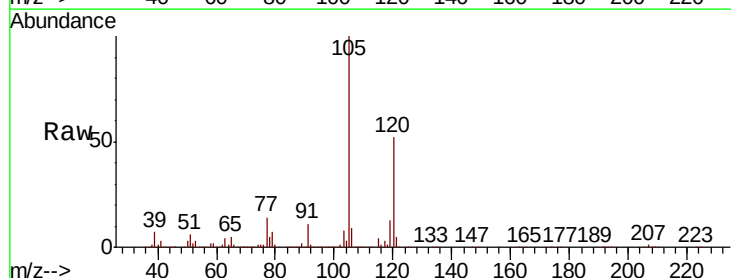
Acq: 30 Jul 2018 00:42

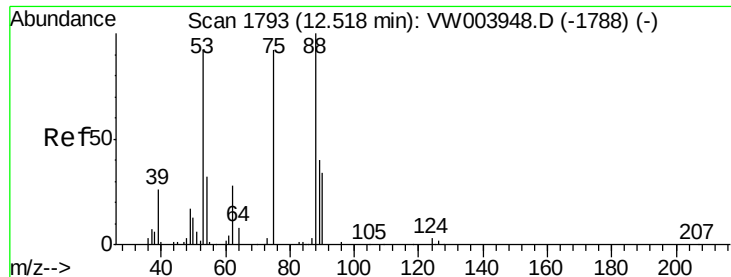
Tgt Ion:105 Resp: 611188

Ion Ratio Lower Upper

105 100

120 50.3 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 50.303 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

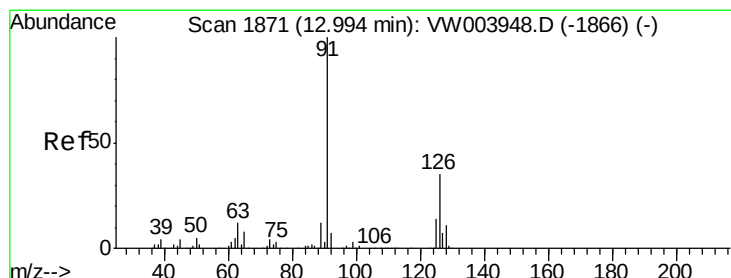
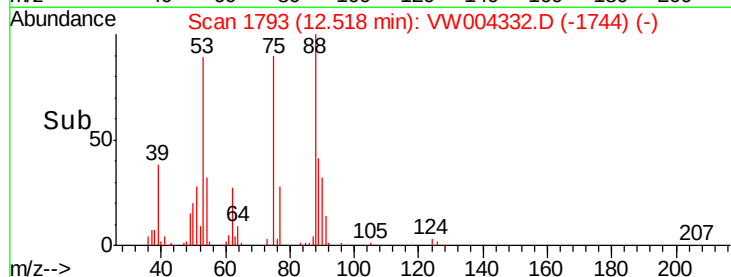
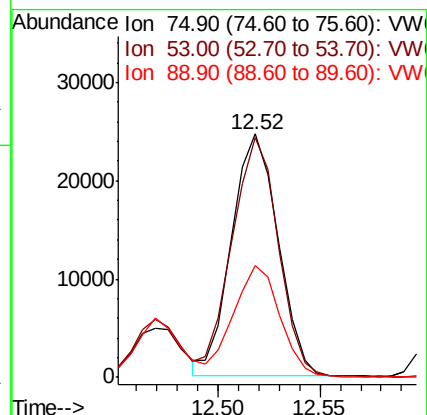
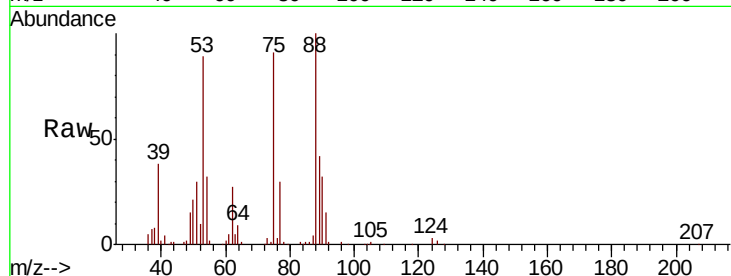
Tot Ion: 75 Resp: 39123

Ion Ratio Lower Upper

75 100

53 100.1 77.6 116.4

89 46.0 36.0 54.0



#82

4-Chlorotoluene

Concen: 54.450 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VW004332.D

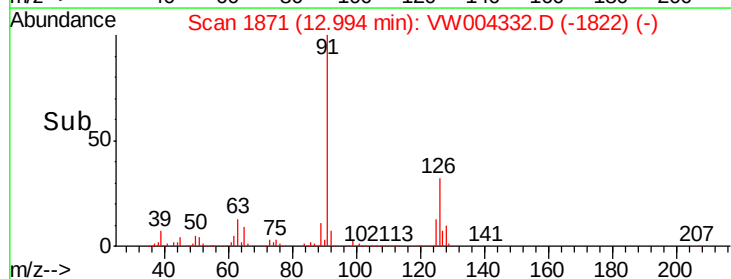
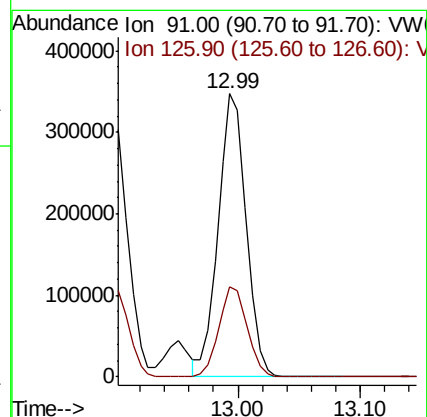
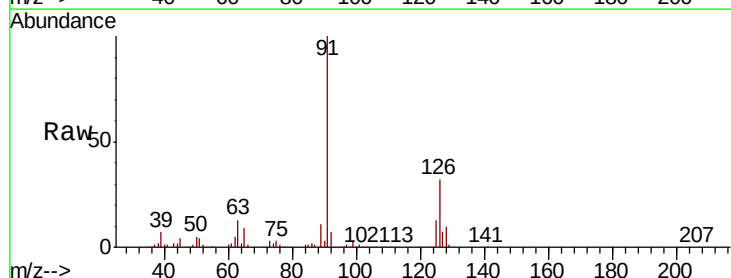
Acq: 30 Jul 2018 00:42

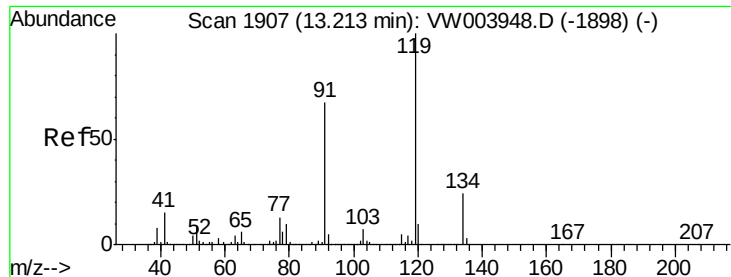
Tgt Ion: 91 Resp: 551999

Ion Ratio Lower Upper

91 100

126 32.4 17.4 52.3

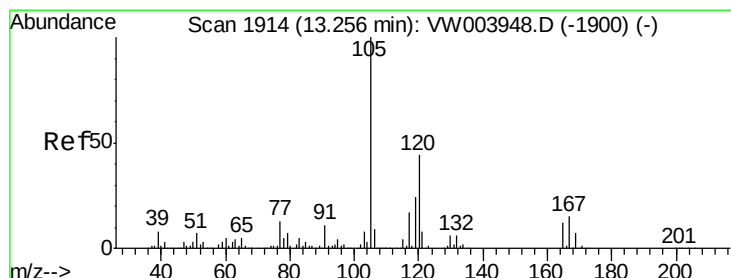
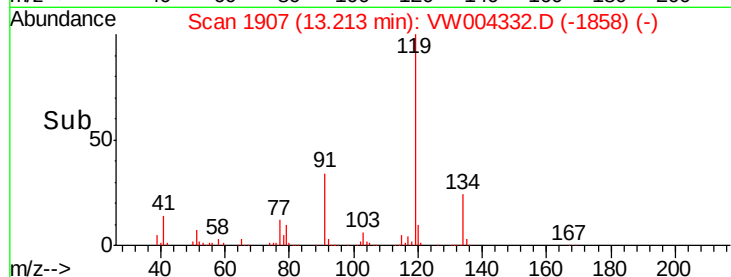
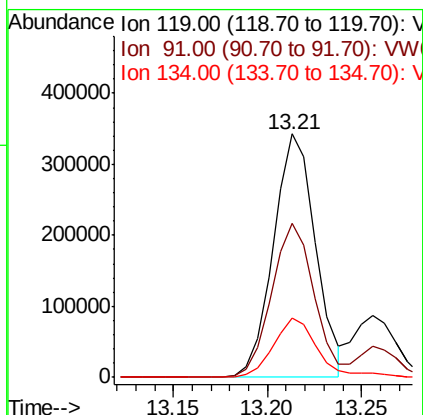
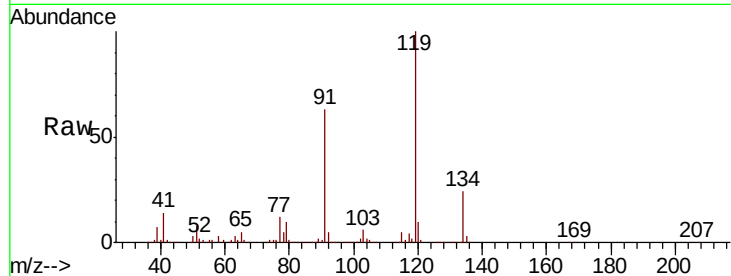




#83  
 tert-Butylbenzene  
 Concen: 53.884 ug/l  
 RT: 13.21 min Scan# 1907  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

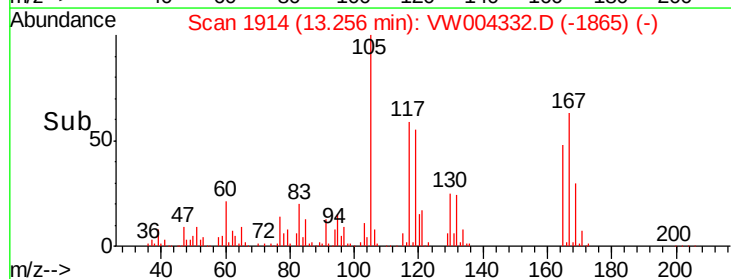
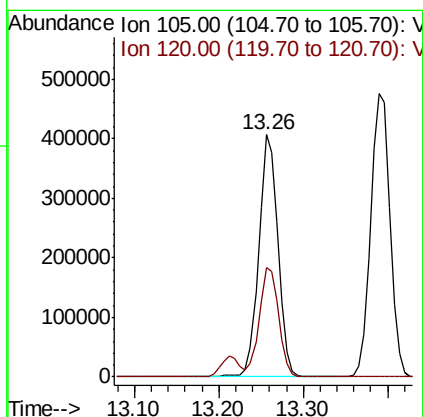
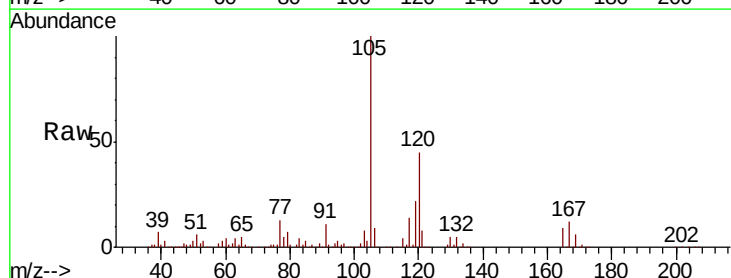
Instrument :  
 MSVOA\_W  
 ClientSampleId :

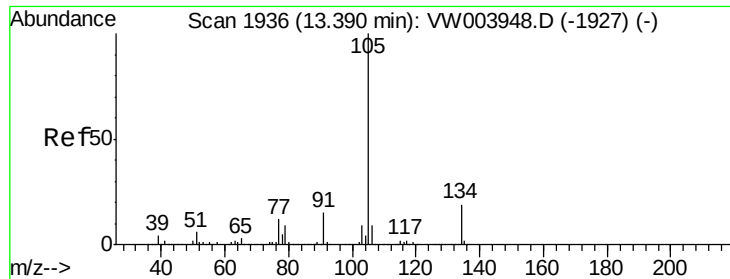
Tot Ion:119 Resp: 531711  
 Ion Ratio Lower Upper  
 119 100  
 91 64.5 32.8 98.3  
 134 25.8 12.2 36.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 52.315 ug/l  
 RT: 13.26 min Scan# 1914  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion:105 Resp: 631973  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 22.7 68.0

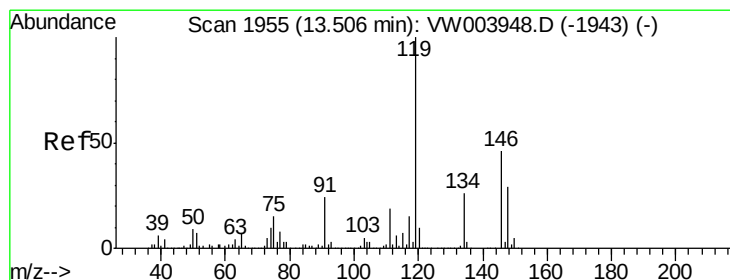
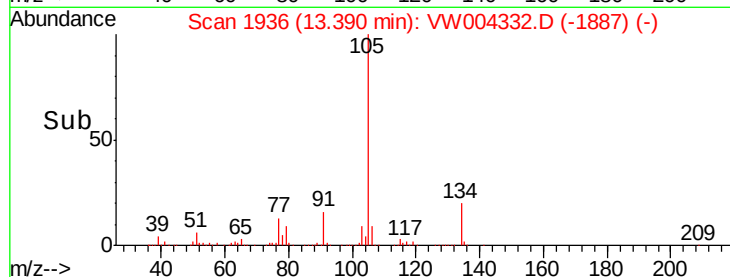
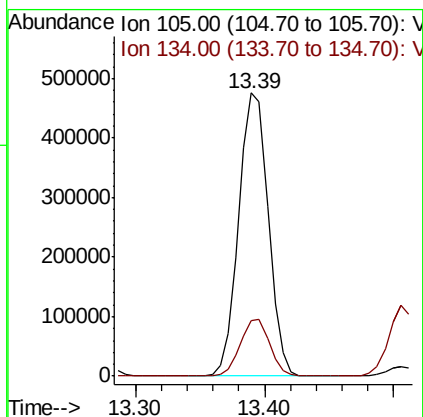
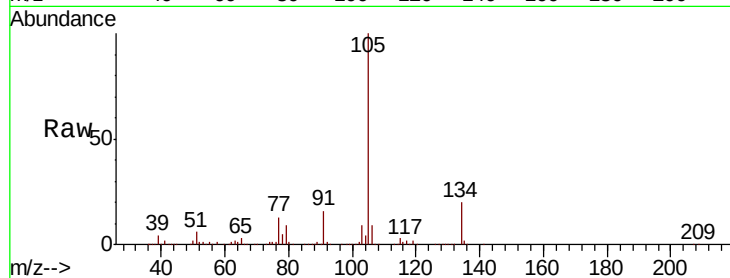




#85  
 sec-Butylbenzene  
 Concen: 52.474 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

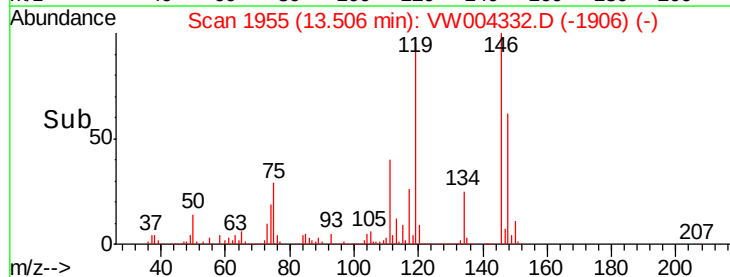
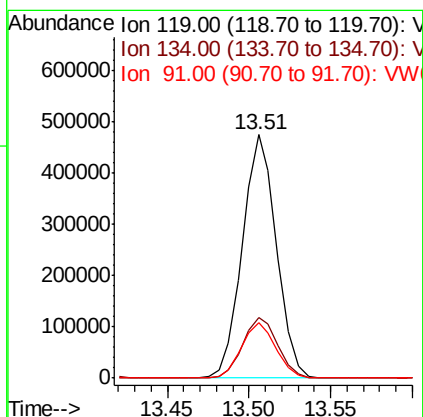
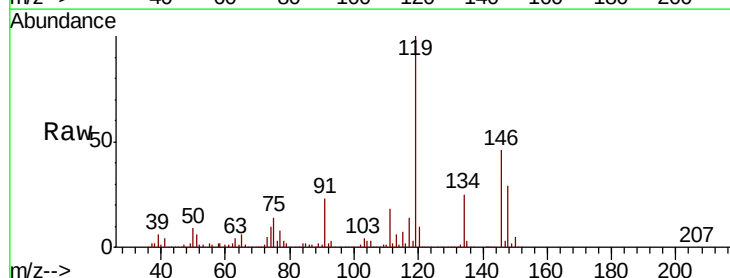
Instrument :  
 MSVOA\_W  
 ClientSampled :

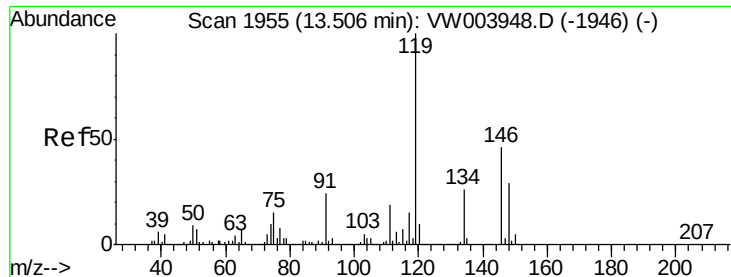
Tot Ion:105 Resp: 756347  
 Ion Ratio Lower Upper  
 105 100  
 134 20.0 9.6 28.8



#86  
 p-Isopropyltoluene  
 Concen: 53.129 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion:119 Resp: 687782  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 12.6 37.8  
 91 22.8 11.3 33.9





#87

1,3-Dichlorobenzene

Concen: 52.150 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampleId :

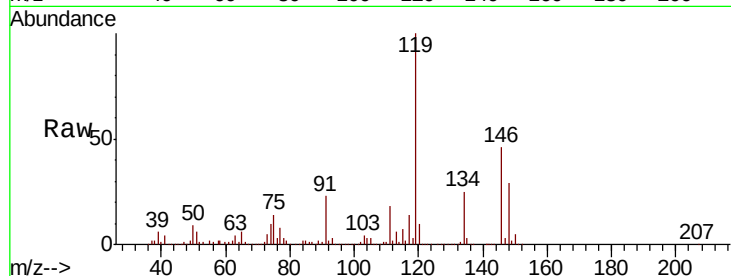
Tot Ion:146 Resp: 346782

Ion Ratio Lower Upper

146 100

111 40.0 19.9 59.6

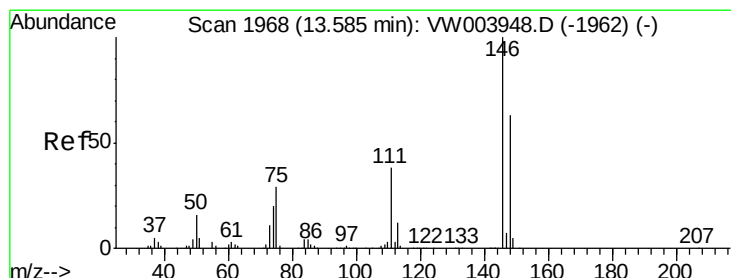
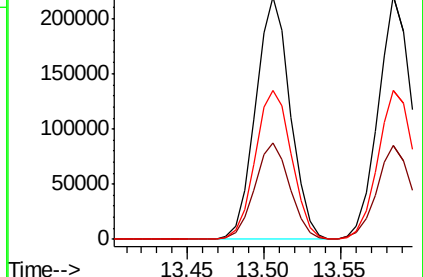
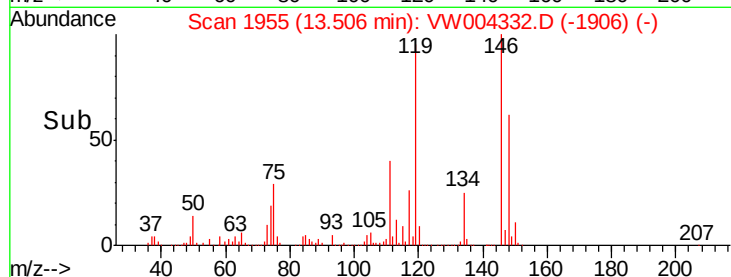
148 64.1 31.9 95.5



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



#88

1,4-Dichlorobenzene

Concen: 51.091 ug/l

RT: 13.58 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

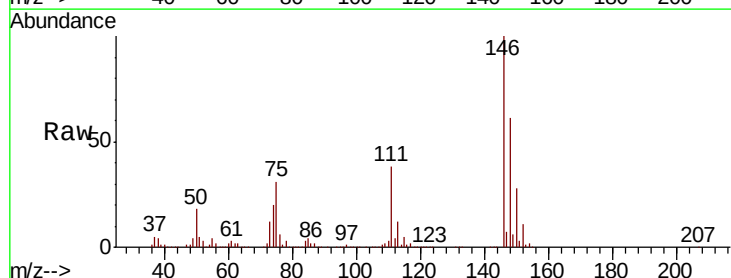
Tgt Ion:146 Resp: 338950

Ion Ratio Lower Upper

146 100

111 39.4 19.4 58.1

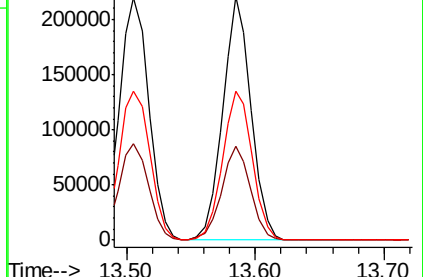
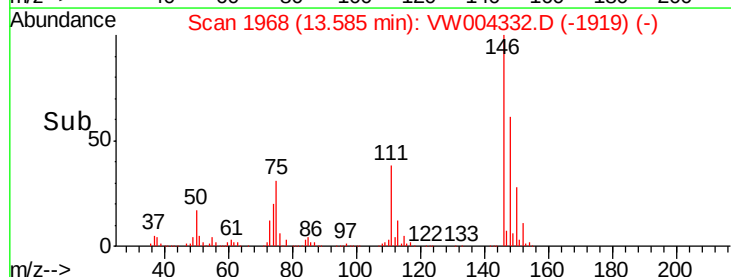
148 64.4 32.8 98.3



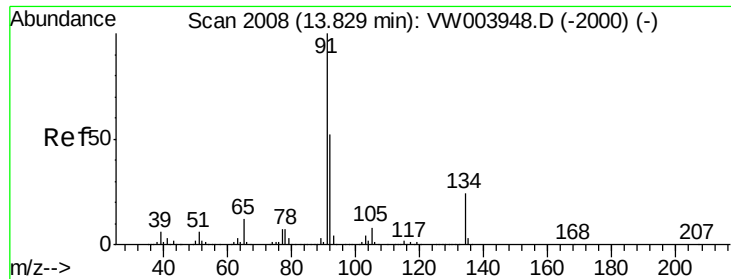
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V







#89

n-Butylbenzene

Concen: 50.740 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VW004332.D

Acq: 30 Jul 2018 00:42

Instrument :

MSVOA\_W

ClientSampled :

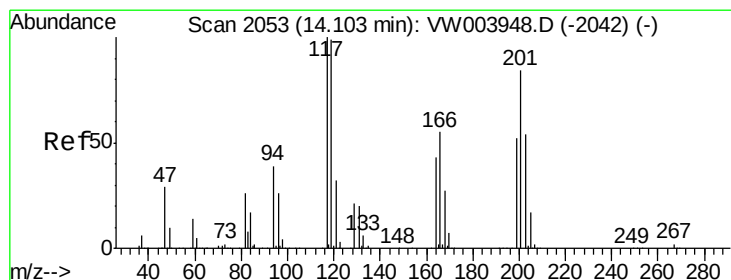
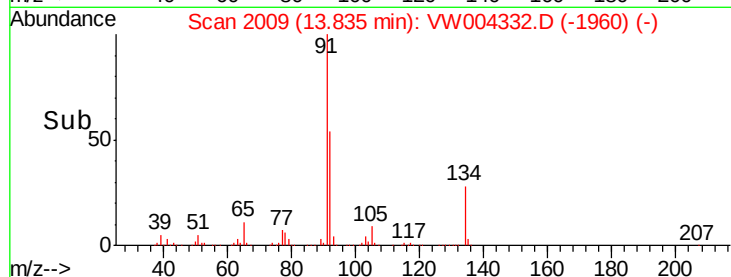
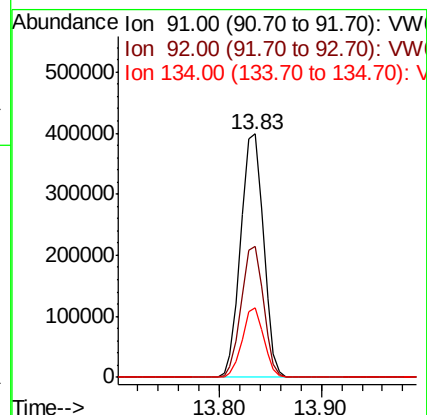
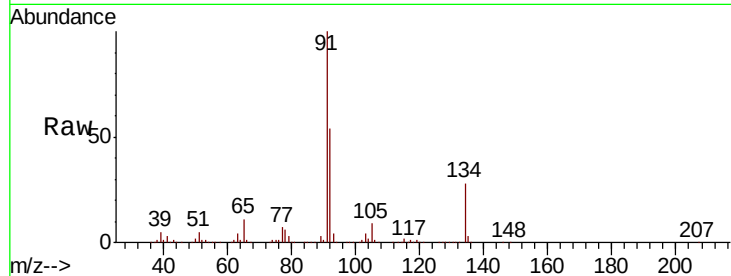
Tot Ion: 91 Resp: 613368

Ion Ratio Lower Upper

91 100

92 52.8 26.4 79.2

134 27.0 12.9 38.6



#90

Hexachloroethane

Concen: 52.940 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.01 min

Lab File: VW004332.D

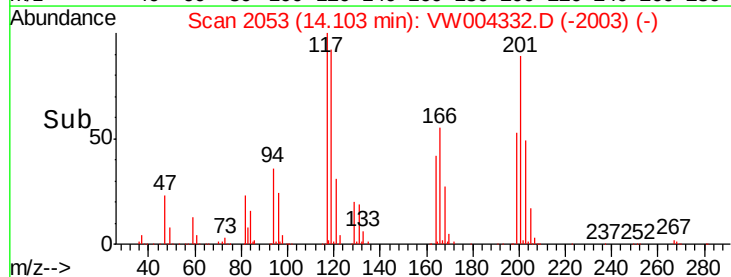
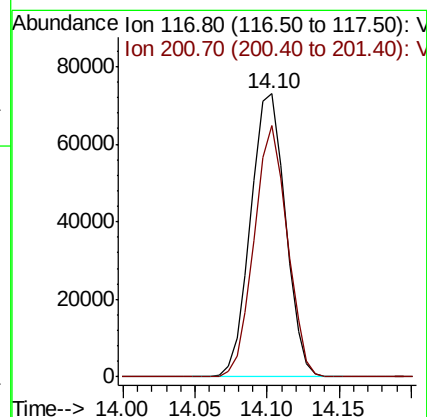
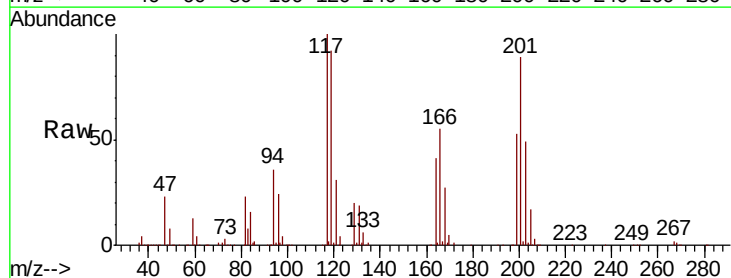
Acq: 30 Jul 2018 00:42

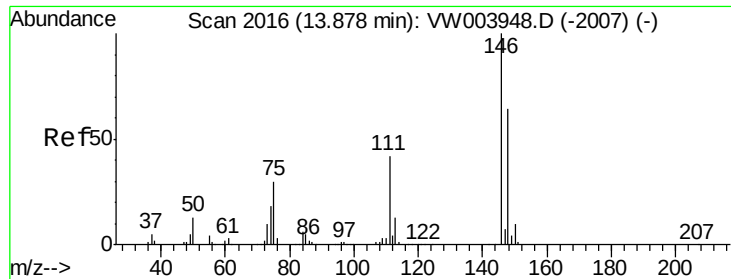
Tgt Ion: 117 Resp: 122233

Ion Ratio Lower Upper

117 100

201 84.3 41.5 124.5

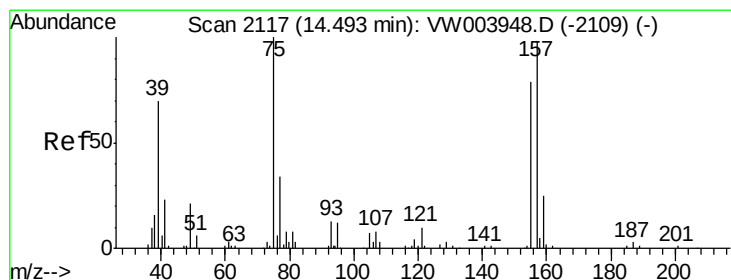
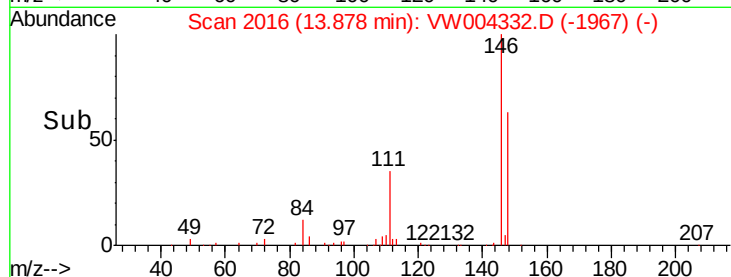
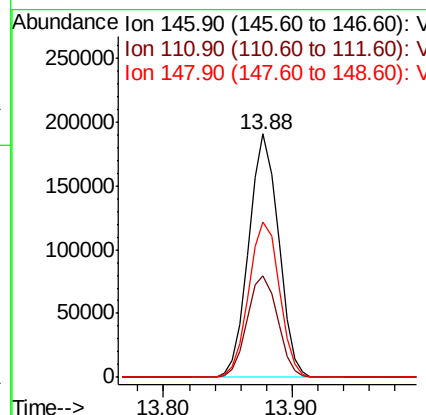
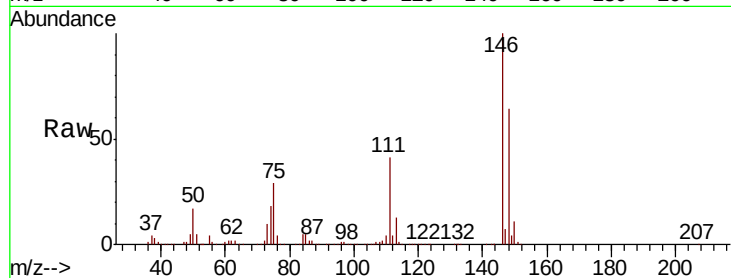




#91  
 1,2-Dichlorobenzene  
 Concen: 51.006 ug/l  
 RT: 13.88 min Scan# 2016  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

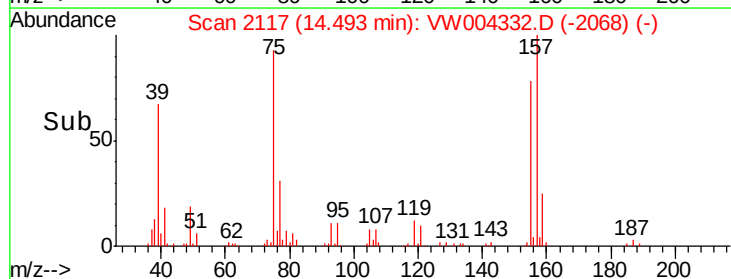
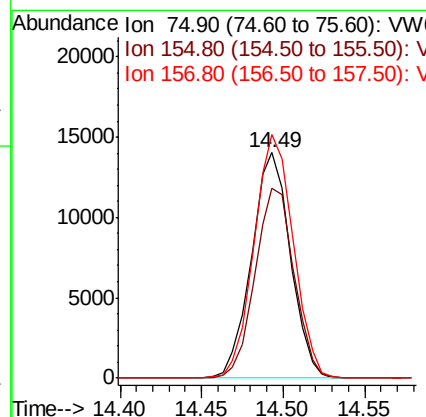
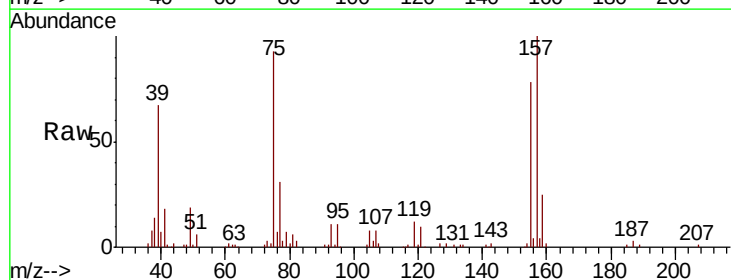
Instrument :  
 MSVOA\_W  
 ClientSampled :

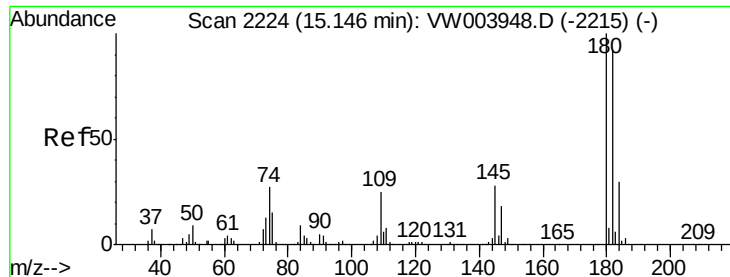
Tot Ion:146 Resp: 303593  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 19.7 59.1  
 148 65.8 32.0 96.0



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 55.283 ug/l  
 RT: 14.49 min Scan# 2117  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

Tgt Ion: 75 Resp: 23243  
 Ion Ratio Lower Upper  
 75 100  
 155 84.3 41.4 124.4  
 157 108.6 55.2 165.6

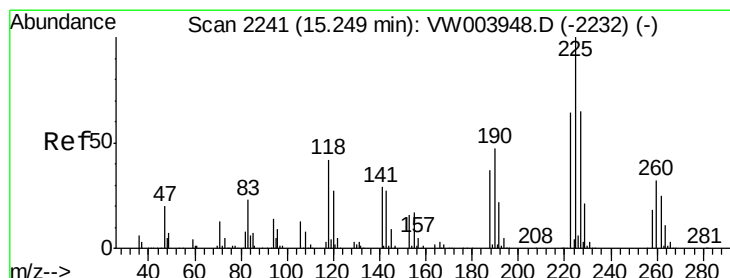
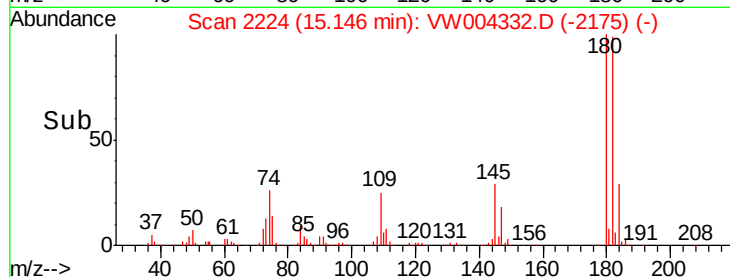
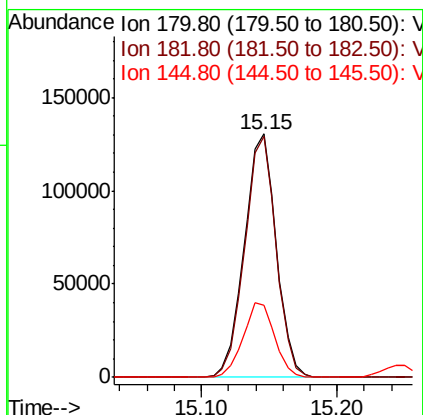
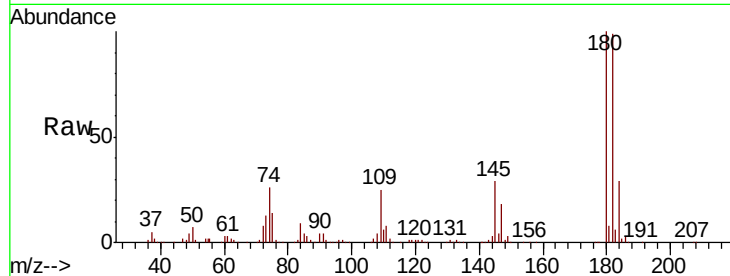




#93  
 1,2,4-Trichlorobenzene  
 Concen: 51.275 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

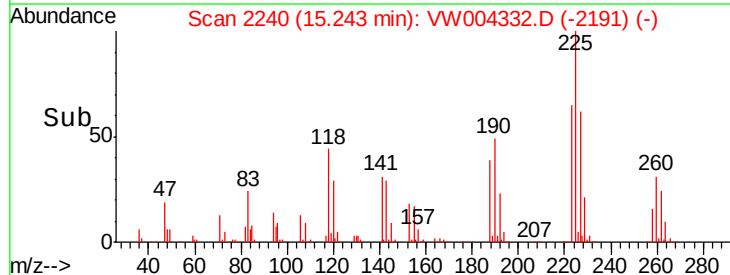
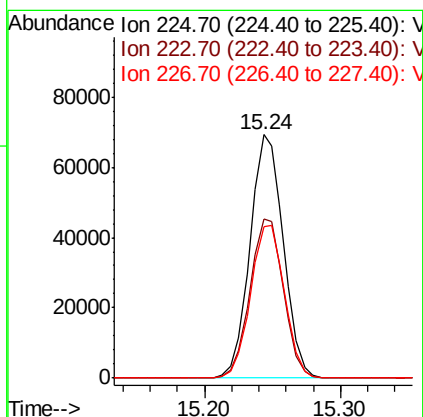
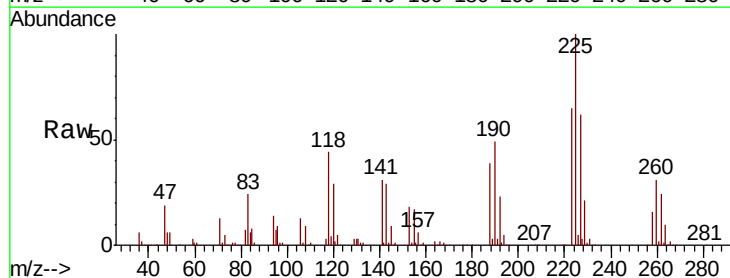
Instrument :  
 MSVOA\_W  
 ClientSampleId :

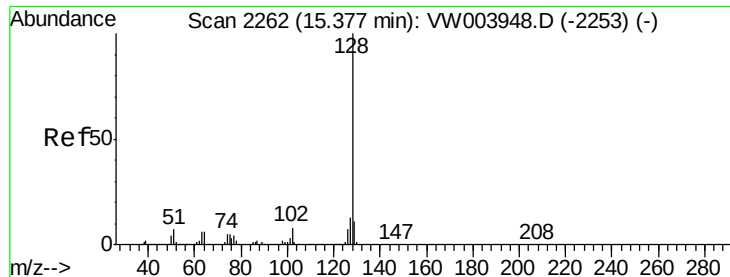
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 47.3  | 141.8 |
| 145     | 30.3  | 14.8  | 44.4  |



#94  
 Hexachlorobutadiene  
 Concen: 46.540 ug/l  
 RT: 15.24 min Scan# 2240  
 Delta R.T. -0.00 min  
 Lab File: VW004332.D  
 Acq: 30 Jul 2018 00:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 65.7  | 31.0  | 93.0  |
| 227     | 63.9  | 32.6  | 97.7  |

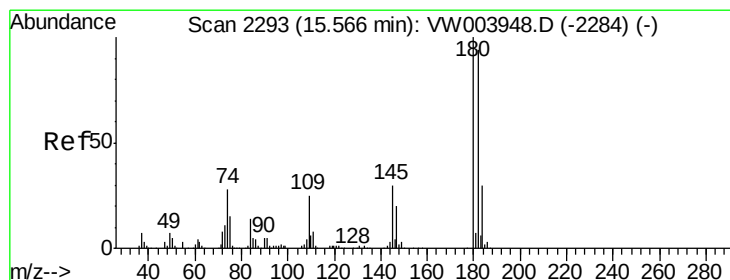
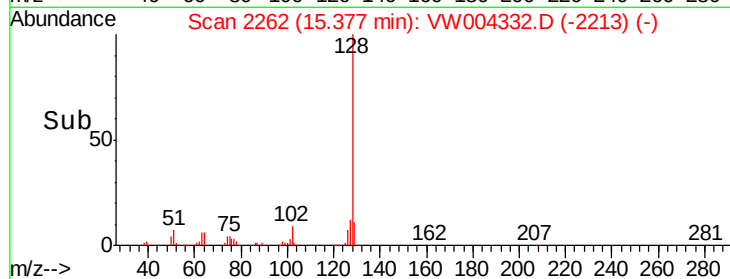
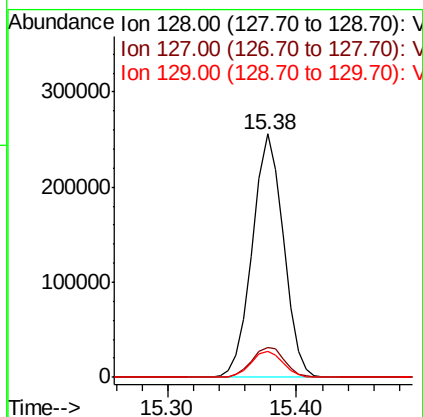
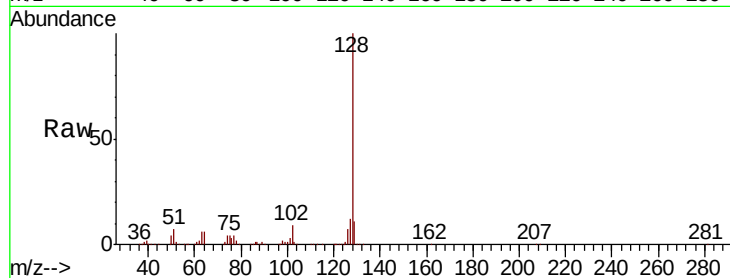




#95  
Naphthalene  
Concen: 59.208 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:128 Resp: 425713  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.4 15.6  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 53.401 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. -0.00 min  
Lab File: VW004332.D  
Acq: 30 Jul 2018 00:42

Tgt Ion:180 Resp: 195289  
Ion Ratio Lower Upper  
180 100  
182 93.1 48.0 144.0  
145 31.7 16.2 48.5

