

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102819\  
 Data File : VW013762.D  
 Acq On : 28 Oct 2019 13:21  
 Operator : SY/VA  
 Sample : VW1028SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBS01

Quant Time: Oct 29 11:45:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 23 14:11:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 322034   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 454823   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 382804   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 198778   | 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   | 123448   | 51.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.20% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 126913   | 50.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.44% |          |
| 50) Toluene-d8              | 10.32 | 98   | 528037   | 51.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.56% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 176374   | 50.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.16% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 39213    | 23.113  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50   | 42224    | 23.158  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.37 | 62   | 63927    | 23.216  | ug/l   | 95     |
| 5) Bromomethane               | 2.78 | 94   | 39118    | 21.601  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64   | 36138    | 21.689  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 40679    | 23.652  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74   | 30375    | 21.860  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 60075    | 21.486  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.28 | 142  | 96028    | 21.076  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59   | 16851    | 116.845 | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 60889    | 21.082  | ug/l   | 98     |
| 13) Acrolein                  | 3.90 | 56   | 13931    | 84.316  | ug/l   | 98     |
| 14) Allyl chloride            | 4.67 | 41   | 93513    | 21.057  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 63646    | 112.644 | ug/l   | 96     |
| 16) Acetone                   | 4.13 | 43   | 50539    | 98.666  | ug/l   | 93     |
| 17) Carbon Disulfide          | 4.39 | 76   | 178593   | 21.532  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 33309    | 23.722  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 76313    | 22.019  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.92 | 84   | 66367    | 20.774  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 66359    | 21.347  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.31 | 45   | 169253   | 20.893  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.26 | 43   | 499469   | 106.260 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 106960   | 20.848  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 76156    | 103.414 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 65007    | 21.912  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 68254    | 20.672  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.51 | 49   | 27185    | 15.814  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 50757    | 111.329 | ug/l   | 100    |
| 30) Chloroform                | 7.68 | 83   | 105876   | 20.876  | ug/l   | 96     |
| 31) Cyclohexane               | 7.96 | 56   | 111126   | 20.697  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 86402    | 21.709  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 90613    | 21.392  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 36586    | 22.564  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 82296    | 21.575  | ug/l   | 95     |

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 Sample : VW1028SBSD01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

Quant Time: Oct 29 11:45:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 23 14:11:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 115477   | 21.110  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 253353   | 21.135  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.48  | 41   | 22278    | 22.033  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 65141    | 21.565  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 66085    | 21.292  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 70908    | 20.650  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 60083    | 20.984  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 29421    | 21.171  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 74101    | 20.608  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 32911    | 21.383  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 9436     | 459.493 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 166424   | 107.907 | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 161607   | 20.900  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 75903    | 20.852  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 92990    | 20.706  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 43987    | 21.238  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 54881    | 21.179  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 76371    | 21.488  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 123297   | 103.386 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 113884   | 107.110 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 50944    | 20.717  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 41761    | 21.313  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 62542    | 21.384  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 167693   | 21.318  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 58248    | 21.217  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 301869   | 21.282  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 236316   | 43.122  | ug/l   | 97       |
| 69) o-Xylene                   | 12.16 | 106  | 106549   | 21.152  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 184834   | 21.357  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 30665    | 21.285  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.46 | 105  | 296303   | 20.757  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 57292    | 20.748  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 48296    | 21.440  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 62496    | 43.780  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 71113    | 20.854  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 349899   | 21.177  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 193806   | 20.873  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 256465   | 21.283  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 16465    | 21.798  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 205612   | 21.093  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 221584   | 20.716  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 251088   | 21.123  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 307995   | 21.057  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 287360   | 21.090  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 140091   | 21.203  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 137450   | 20.940  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 263306   | 21.410  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 49031    | 20.703  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 120653   | 21.061  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 7617     | 22.361  | ug/l   | 95       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102819\  
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Operator : SY/VA  
Sample : VW1028SBSD01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

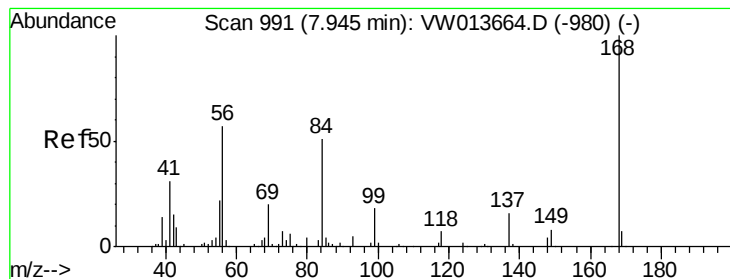
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

Quant Time: Oct 29 11:45:37 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 23 14:11:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 85843    | 20.590 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 58737    | 20.869 | ug/l  | 100      |
| 95) Naphthalene            | 15.36 | 128  | 139274   | 21.306 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 75335    | 20.970 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

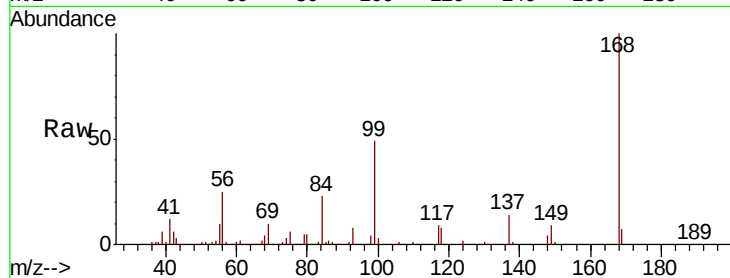
VW1028SBSD01

Tot Ion:168 Resp: 322034

Ion Ratio Lower Upper

168 100

99 49.3 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

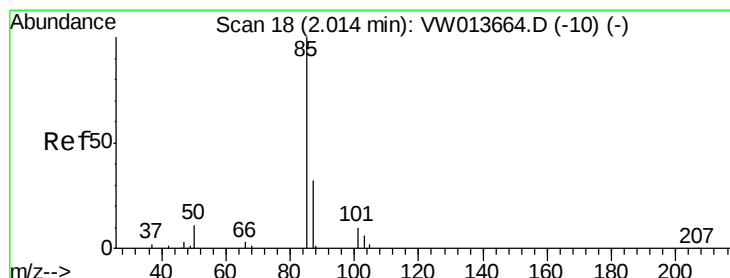
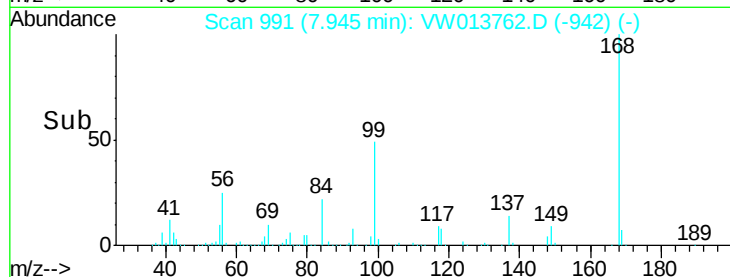
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.113 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW013762.D

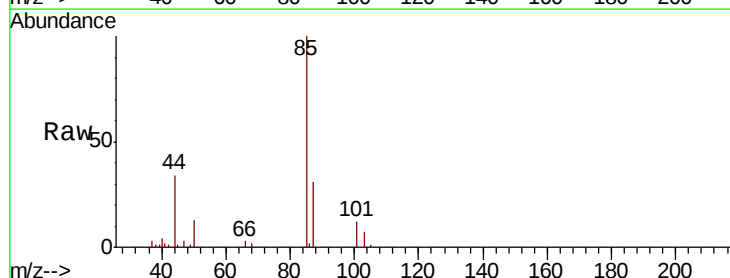
Acq: 28 Oct 2019 13:21

Tgt Ion: 85 Resp: 39213

Ion Ratio Lower Upper

85 100

87 30.5 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

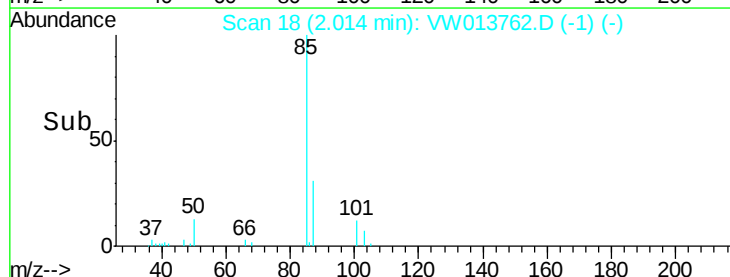
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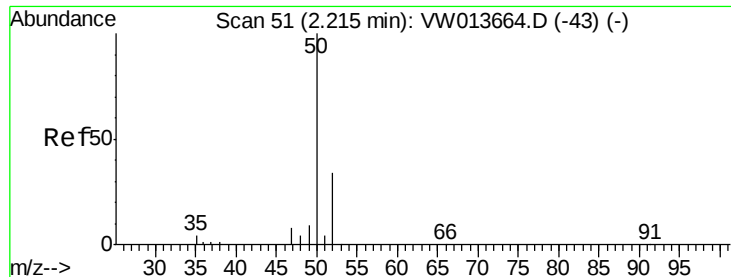
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5000

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Time-->





#3

Chloromethane

Concen: 23.158 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

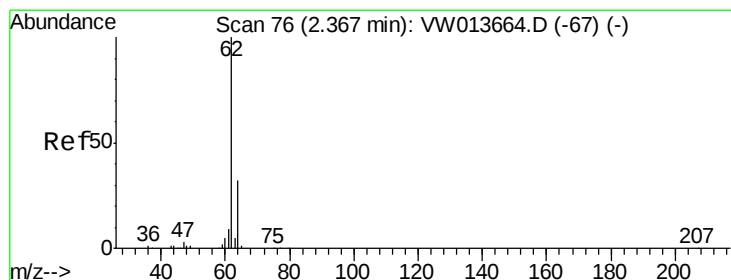
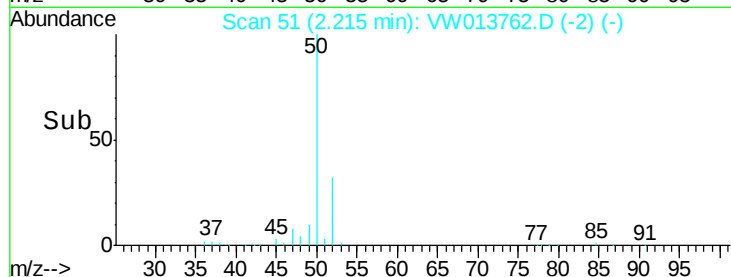
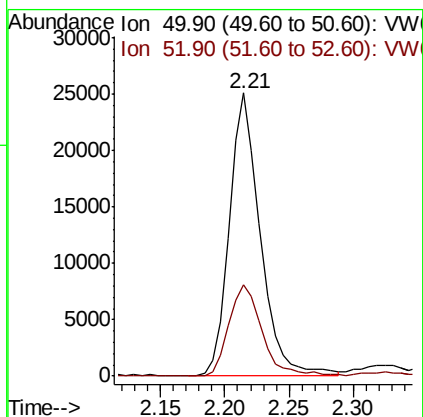
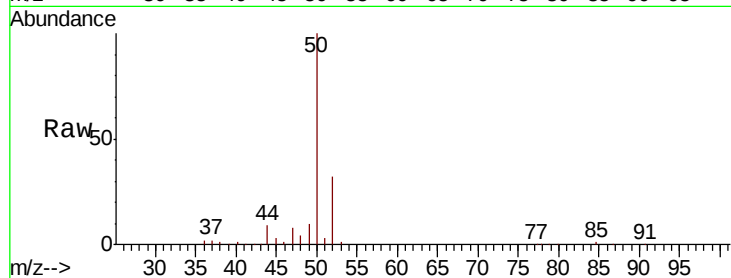
VW1028SBSD01

Tot Ion: 50 Resp: 42224

Ion Ratio Lower Upper

50 100

52 32.4 26.9 40.3



#4

Vinyl Chloride

Concen: 23.216 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013762.D

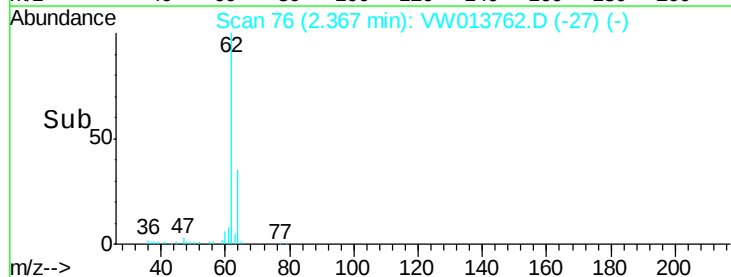
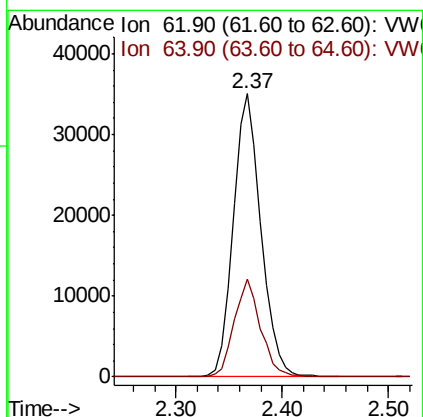
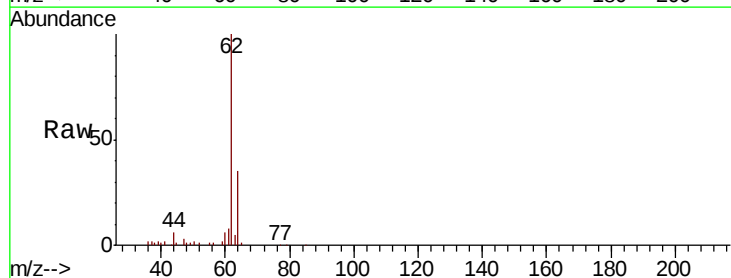
Acq: 28 Oct 2019 13:21

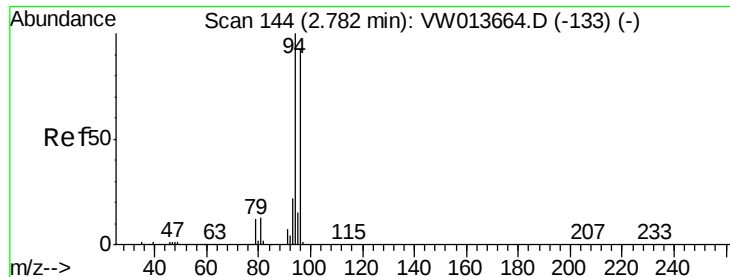
Tgt Ion: 62 Resp: 63927

Ion Ratio Lower Upper

62 100

64 34.5 25.5 38.3





#5

Bromomethane

Concen: 21.601 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

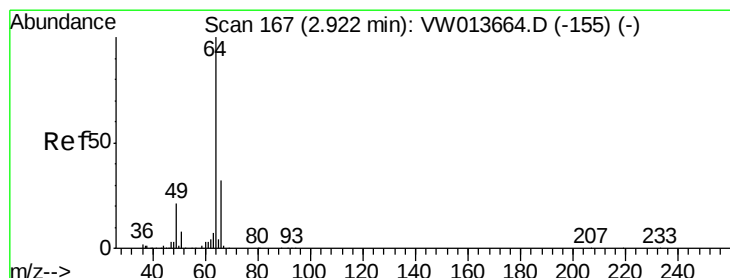
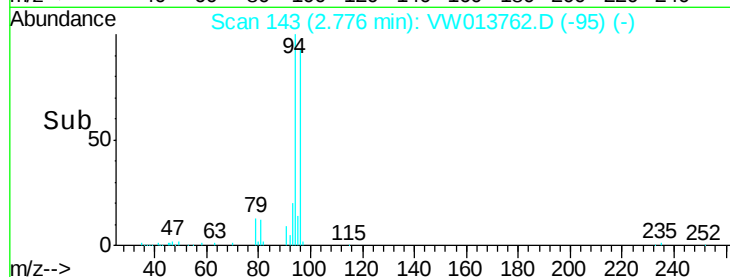
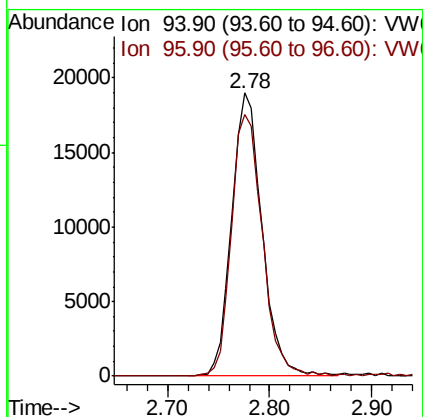
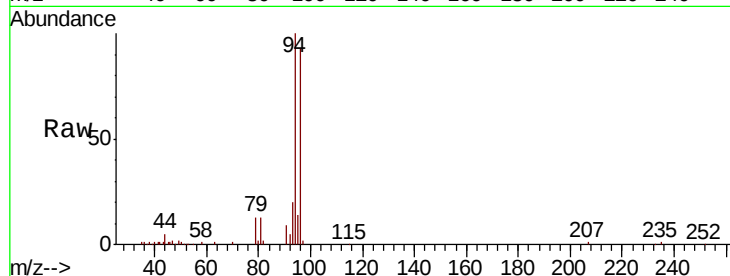
VW1028SBSD01

Tot Ion: 94 Resp: 39118

Ion Ratio Lower Upper

94 100

96 92.6 74.6 112.0



#6

Chloroethane

Concen: 21.689 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013762.D

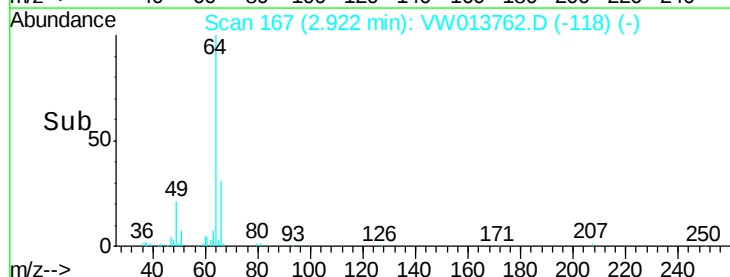
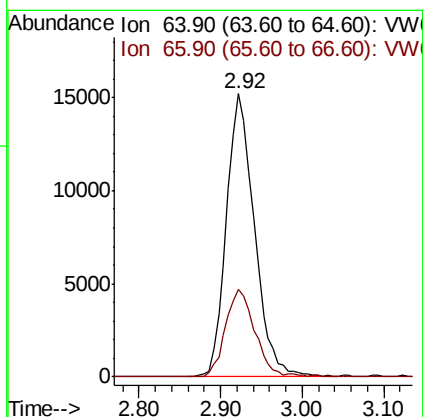
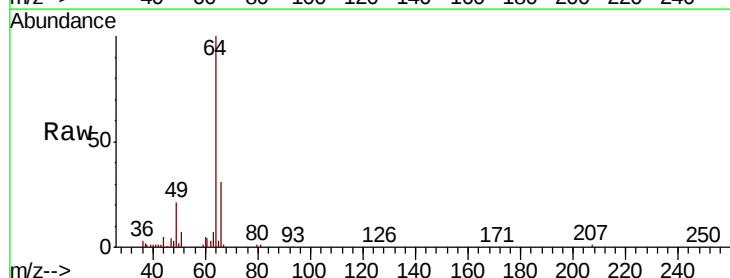
Acq: 28 Oct 2019 13:21

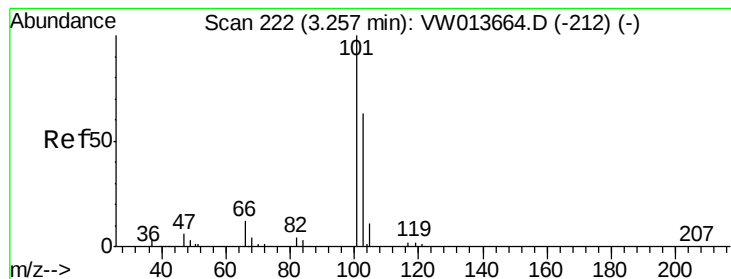
Tgt Ion: 64 Resp: 36138

Ion Ratio Lower Upper

64 100

66 31.0 25.4 38.0



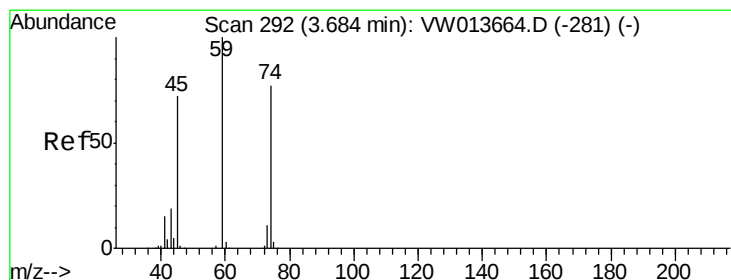
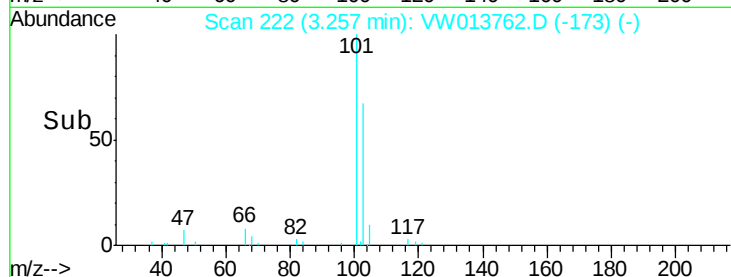
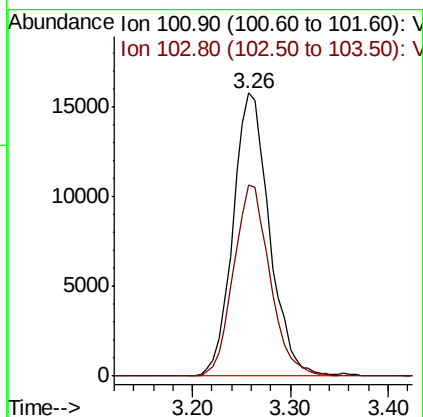
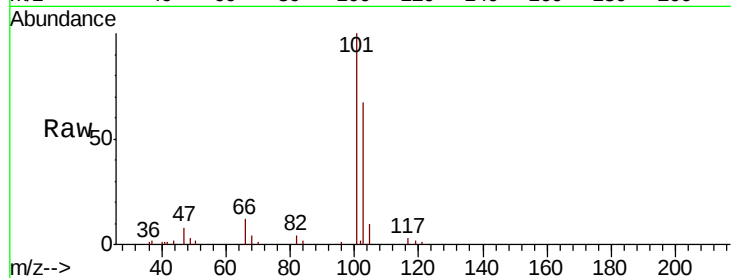


#7

Trichlorofluoromethane  
 Concen: 23.652 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
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Instrument :  
 MSVOA\_W  
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 VW1028SBSD01

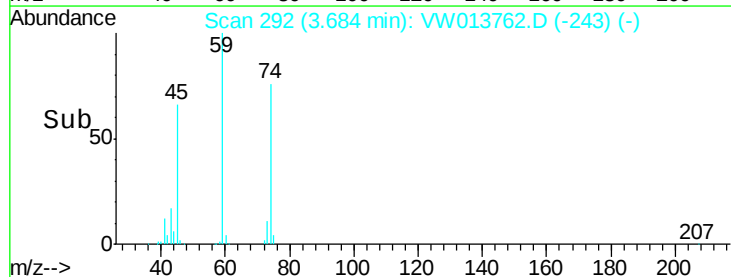
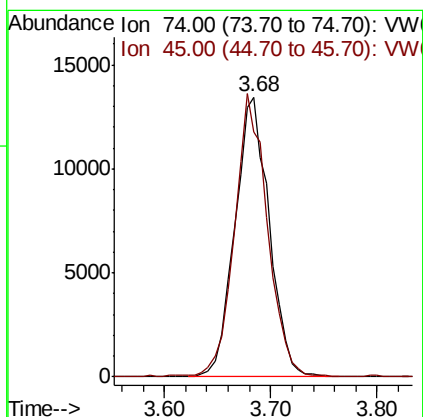
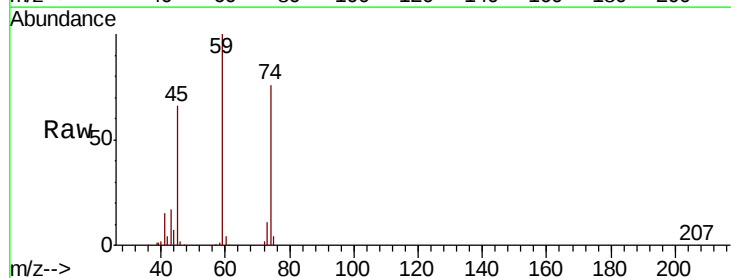
Tot Ion:101 Resp: 40679  
 Ion Ratio Lower Upper  
 101 100  
 103 67.5 50.6 76.0

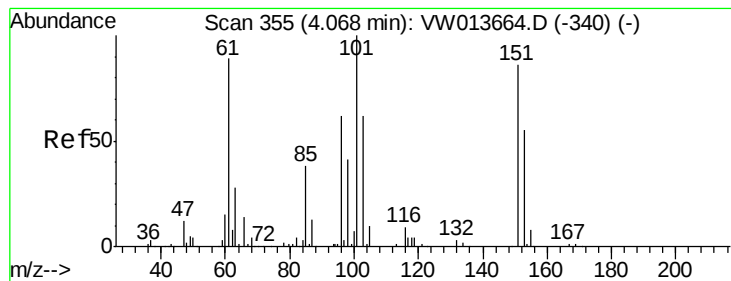


#8

Diethyl Ether  
 Concen: 21.860 ug/l  
 RT: 3.68 min Scan# 292  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

Tgt Ion: 74 Resp: 30375  
 Ion Ratio Lower Upper  
 74 100  
 45 97.0 47.9 143.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.486 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBSD01

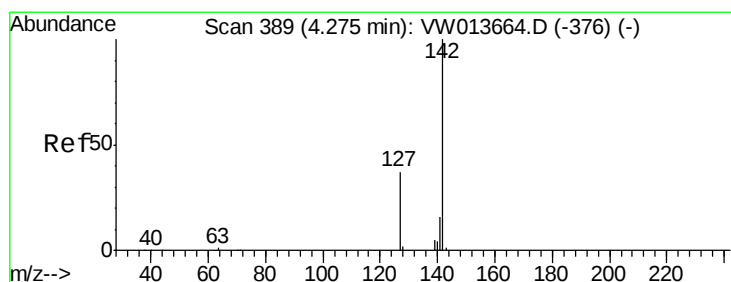
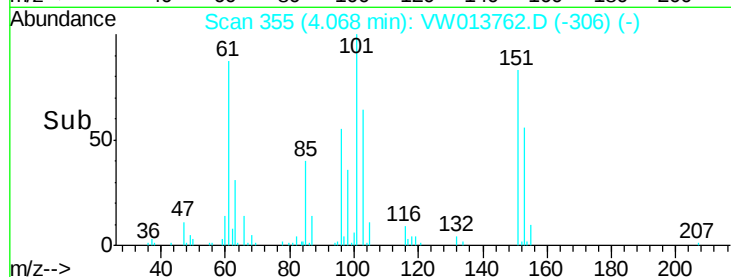
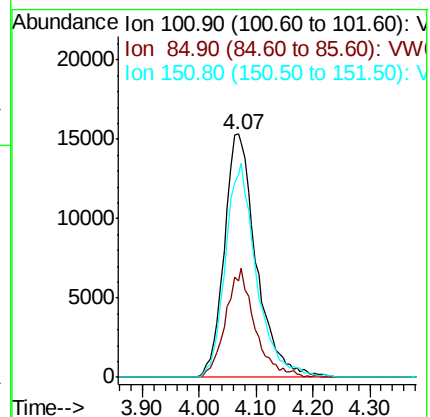
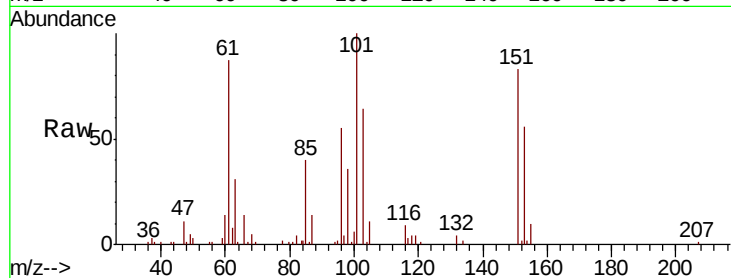
Tot Ion:101 Resp: 60075

Ion Ratio Lower Upper

101 100

85 40.8 31.0 46.6

151 85.0 68.2 102.4



#10

Methyl Iodide

Concen: 21.076 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

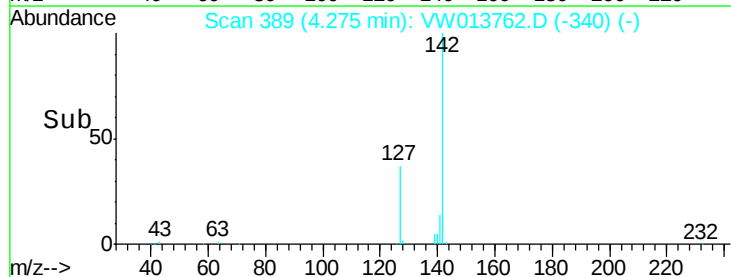
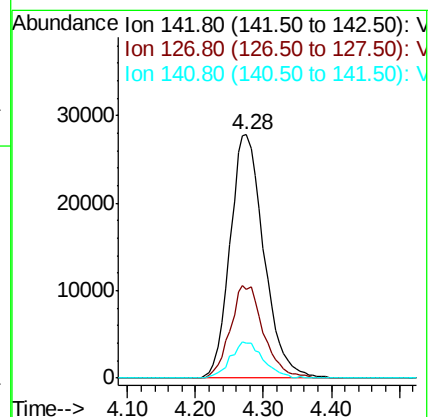
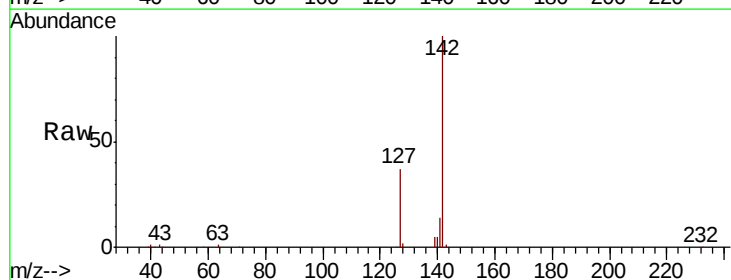
Tgt Ion:142 Resp: 96028

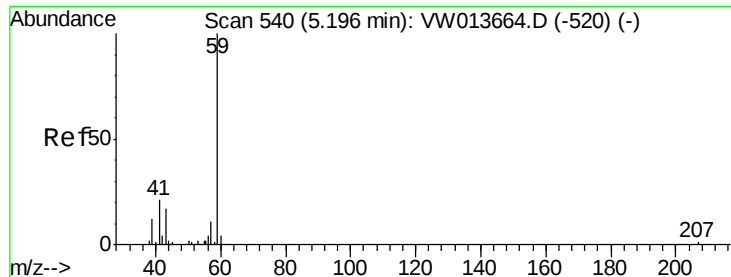
Ion Ratio Lower Upper

142 100

127 37.5 30.3 45.5

141 14.4 11.8 17.8





#11

Tert butyl alcohol

Concen: 116.845 ug/l

RT: 5.20 min Scan# 540

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

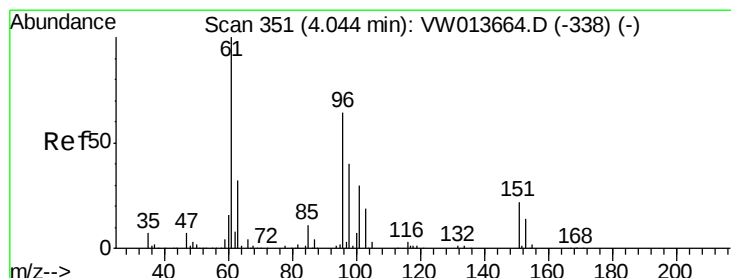
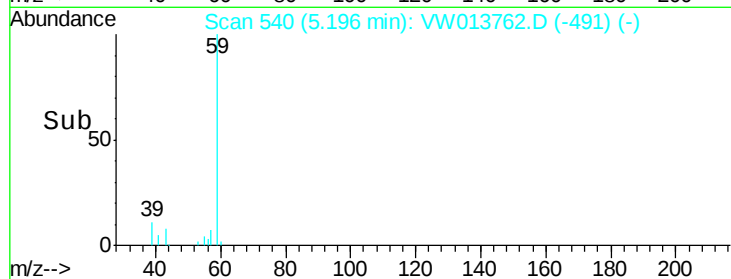
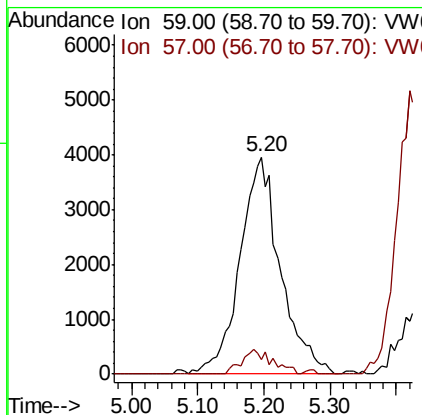
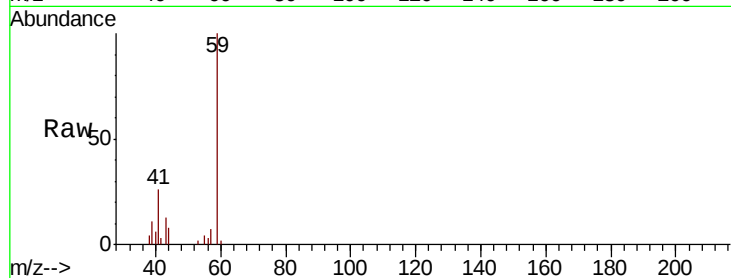
VW1028SBSD01

Tot Ion: 59 Resp: 16851

Ion Ratio Lower Upper

59 100

57 8.6 8.8 13.2#



#12

1,1-Dichloroethene

Concen: 21.082 ug/l

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

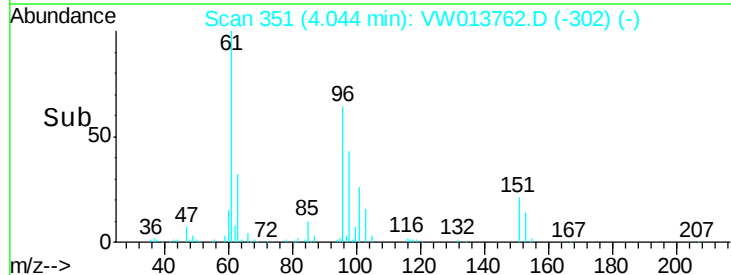
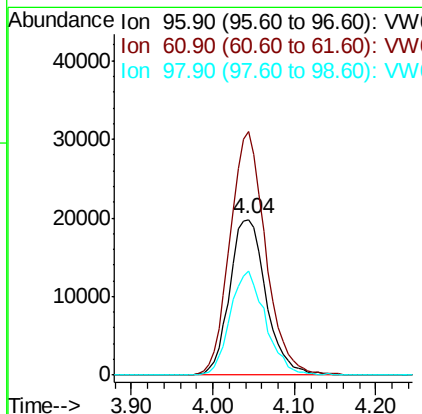
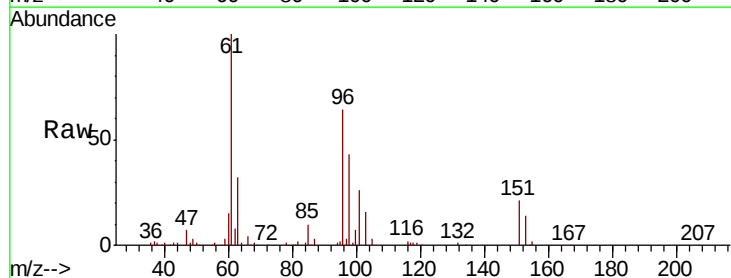
Tgt Ion: 96 Resp: 60889

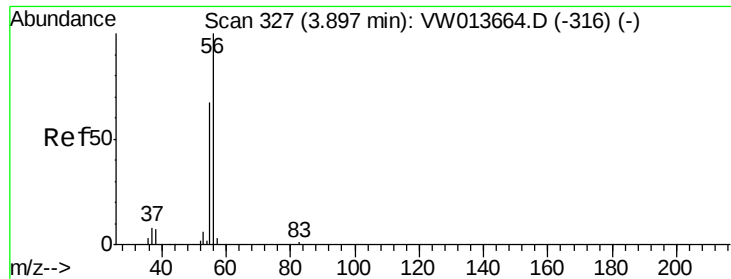
Ion Ratio Lower Upper

96 100

61 156.7 125.0 187.6

98 66.6 50.3 75.5





#13

Acrolein

Concen: 84.316 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

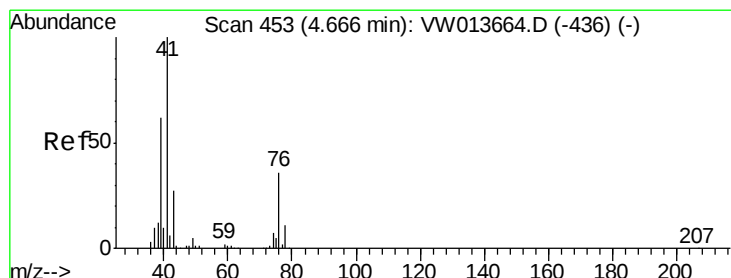
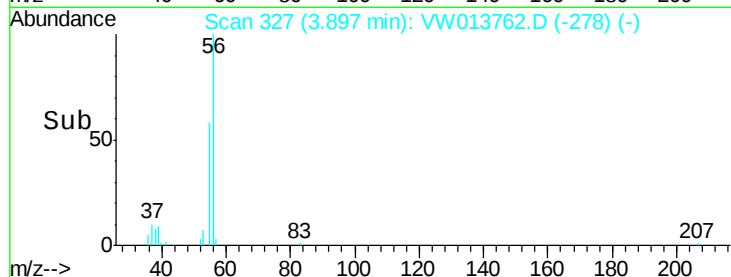
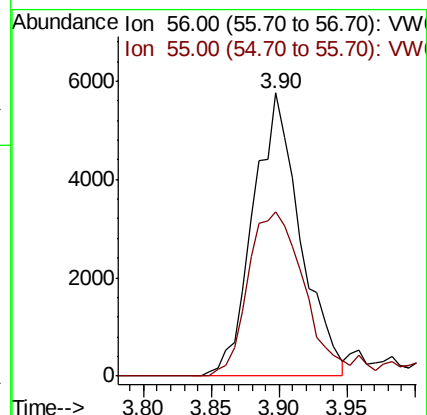
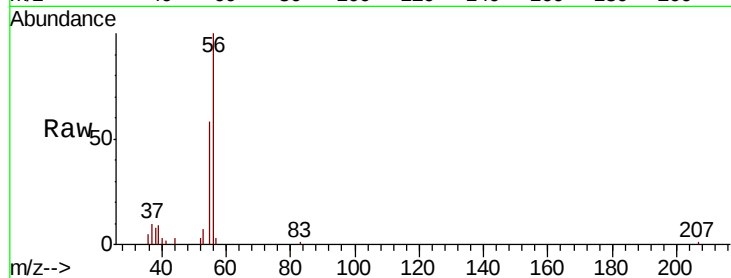
VW1028SBSD01

Tot Ion: 56 Resp: 13931

Ion Ratio Lower Upper

56 100

55 68.5 56.1 84.1



#14

Allyl chloride

Concen: 21.057 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

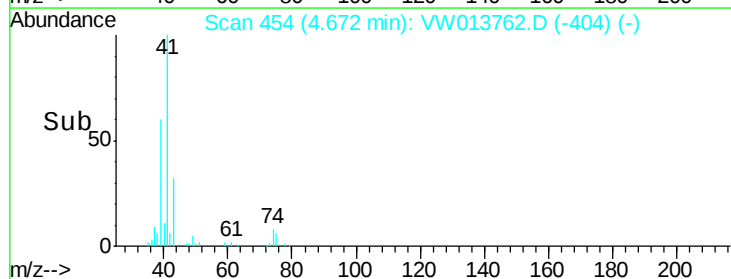
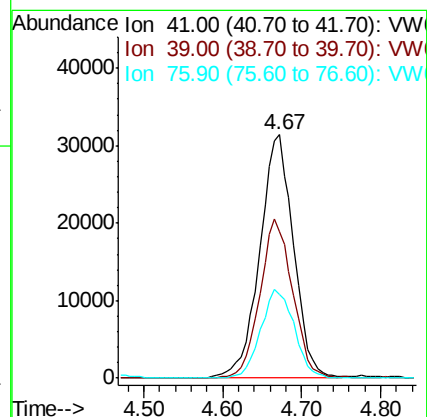
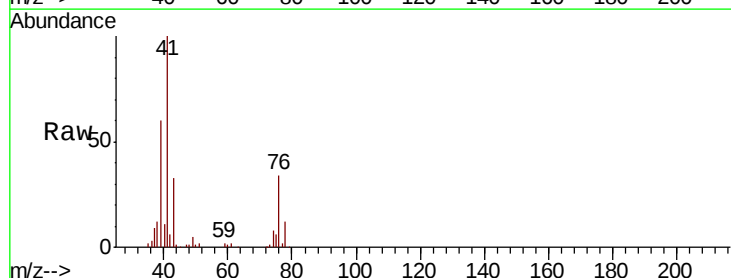
Tgt Ion: 41 Resp: 93513

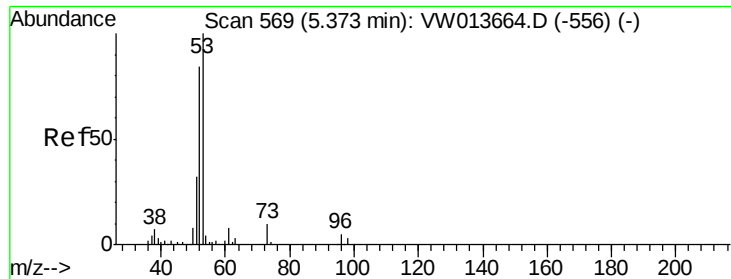
Ion Ratio Lower Upper

41 100

39 63.2 50.0 75.0

76 36.1 29.6 44.4





#15

Acrylonitrile

Concen: 112.644 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

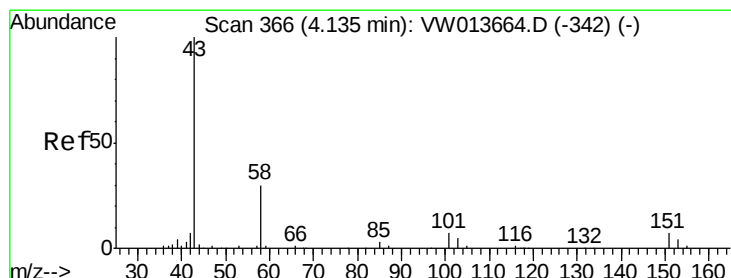
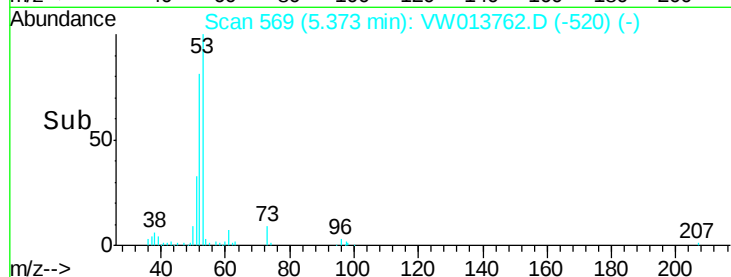
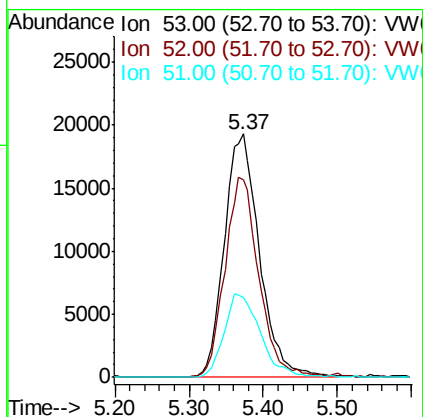
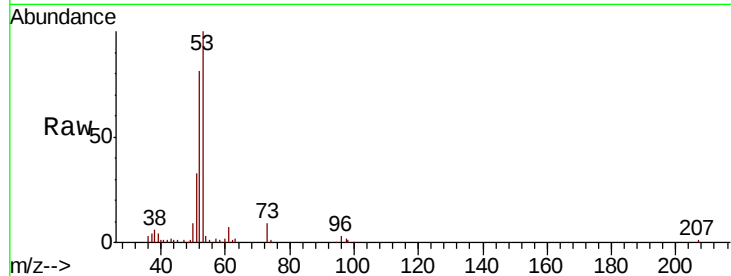
Tot Ion: 53 Resp: 63646

Ion Ratio Lower Upper

53 100

52 79.2 67.4 101.0

51 35.5 29.1 43.7



#16

Acetone

Concen: 98.666 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW013762.D

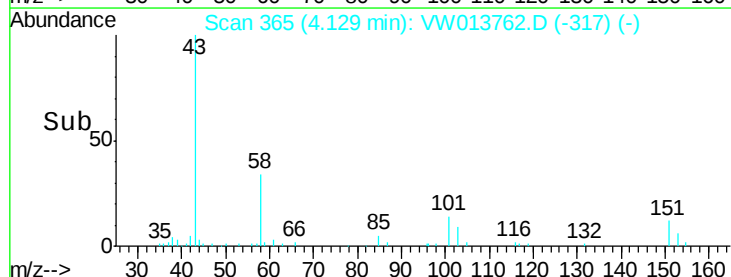
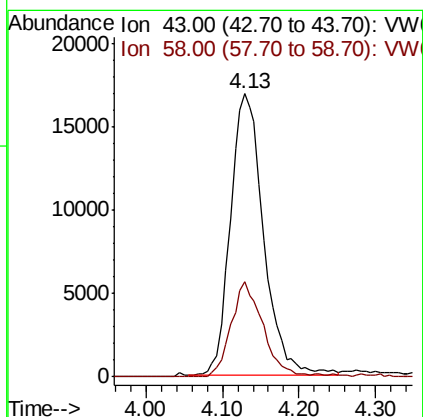
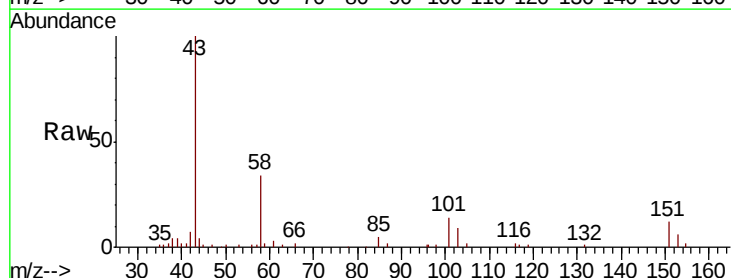
Acq: 28 Oct 2019 13:21

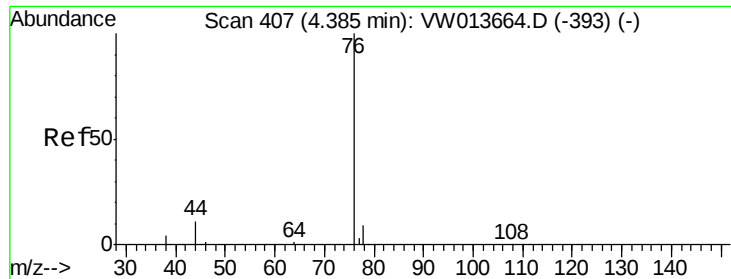
Tgt Ion: 43 Resp: 50539

Ion Ratio Lower Upper

43 100

58 33.8 24.1 36.1





#17

Carbon Disulfide

Concen: 21.532 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

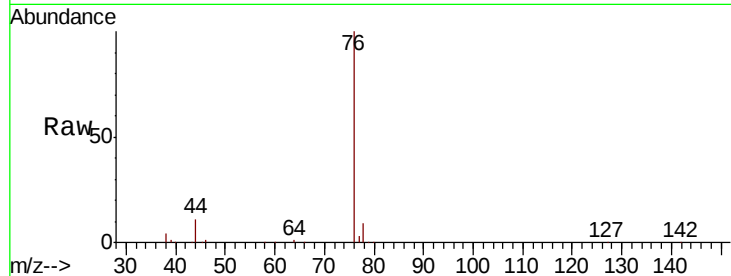
VW1028SBSD01

Tot Ion: 76 Resp: 178593

Ion Ratio Lower Upper

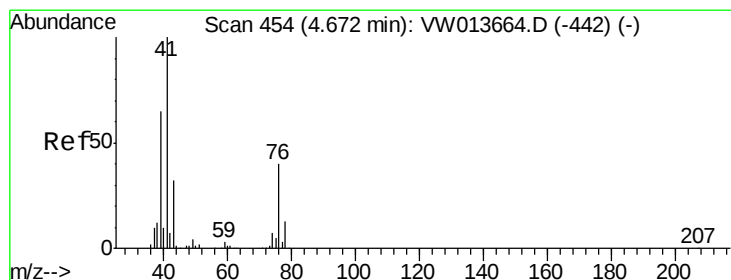
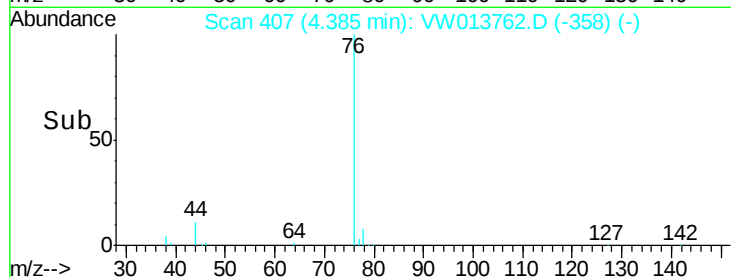
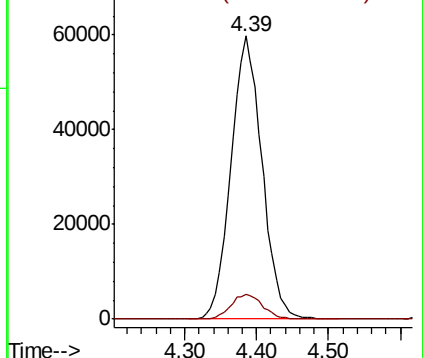
76 100

78 8.8 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 23.722 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW013762.D

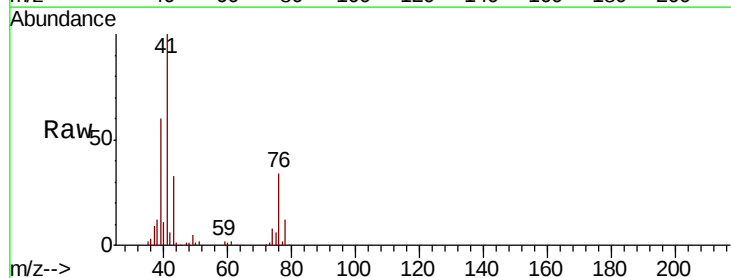
Acq: 28 Oct 2019 13:21

Tgt Ion: 43 Resp: 33309

Ion Ratio Lower Upper

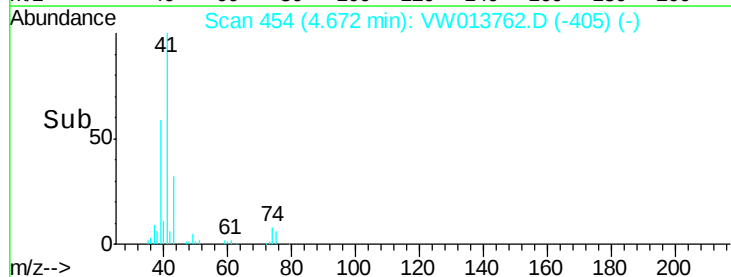
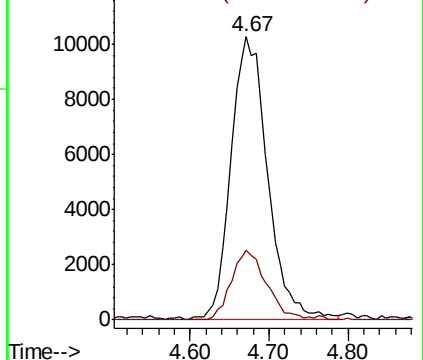
43 100

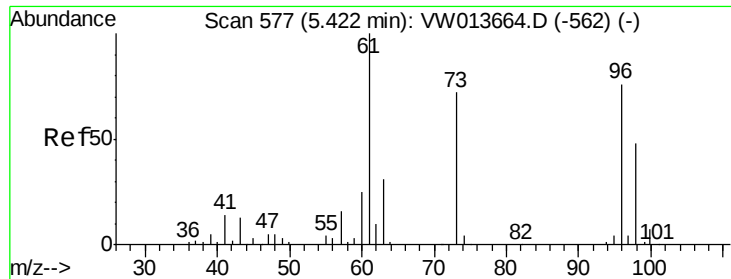
74 23.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

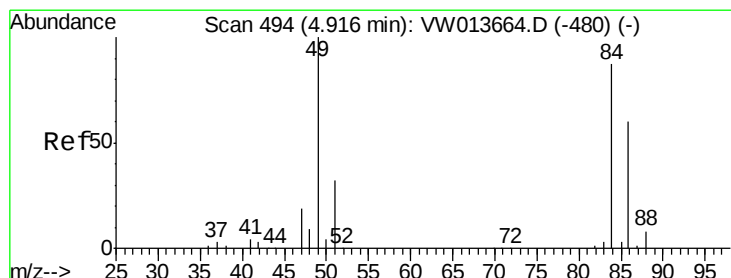
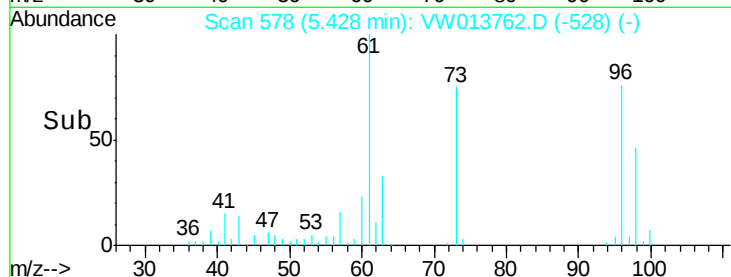
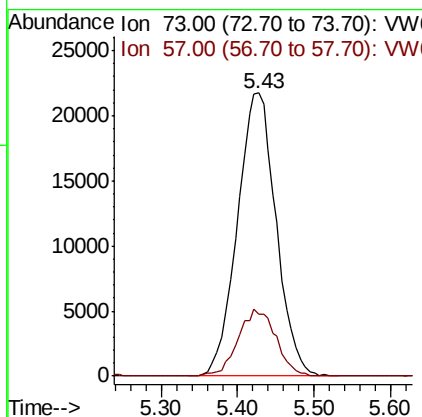
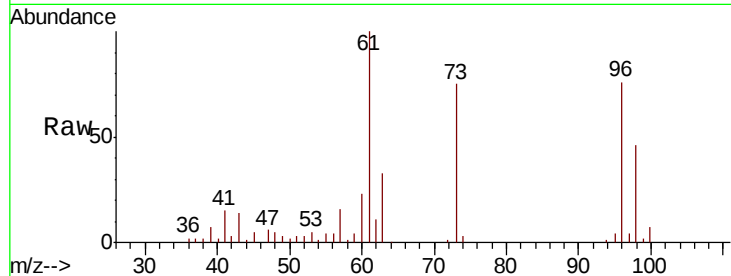




#19  
Methvl tert-butvl Ether  
Concen: 22.019 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

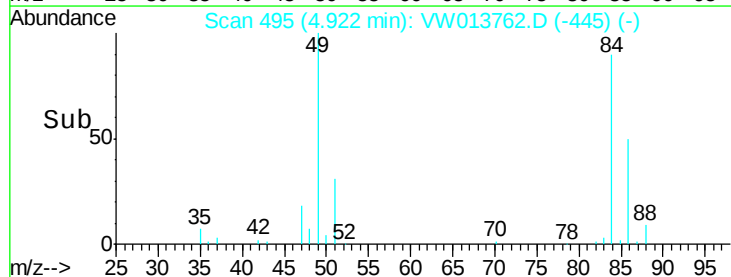
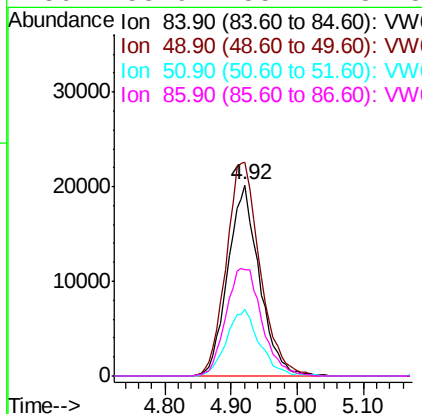
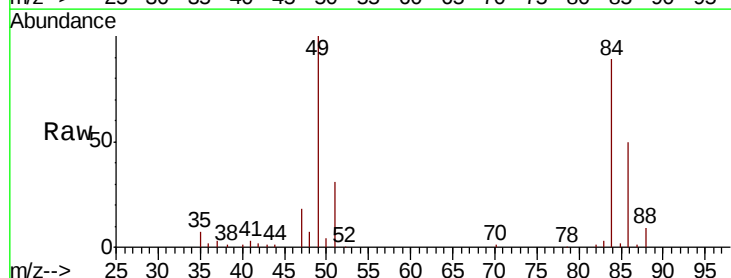
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

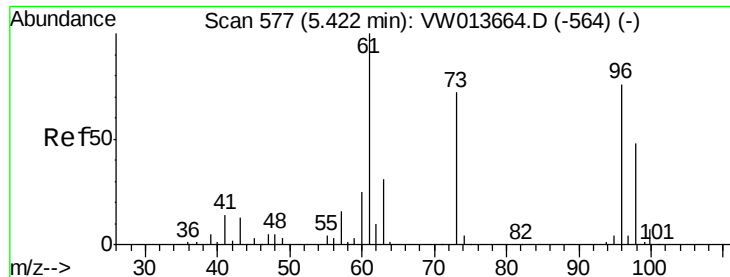
Tot Ion: 73 Resp: 76313  
Ion Ratio Lower Upper  
73 100  
57 21.9 17.6 26.4



#20  
Methylene Chloride  
Concen: 20.774 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 84 Resp: 66367  
Ion Ratio Lower Upper  
84 100  
49 112.0 91.8 137.6  
51 34.7 29.8 44.6  
86 55.9 55.2 82.8





#21

trans-1,2-Dichloroethene

Concen: 21.347 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

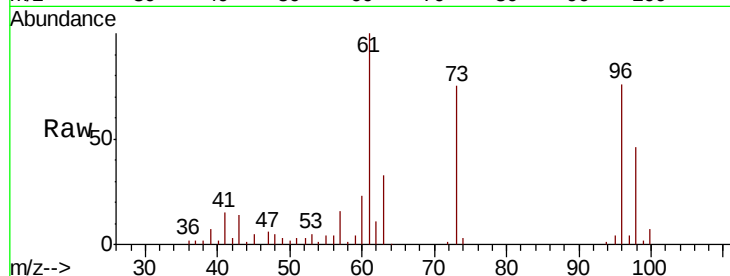
MSVOA\_W

ClientSampleId :

VW1028SBSD01

Tot Ion: 96 Resp: 66359

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 131.3 | 104.8 | 157.2 |
| 98  | 61.0  | 50.6  | 76.0  |

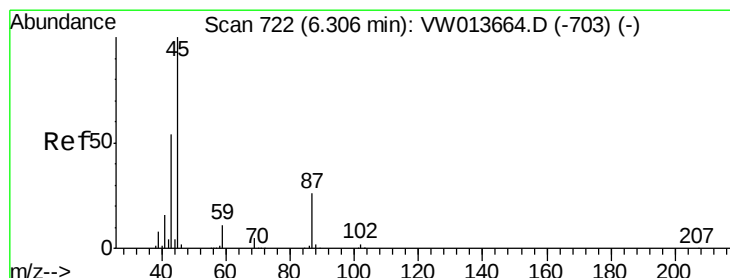
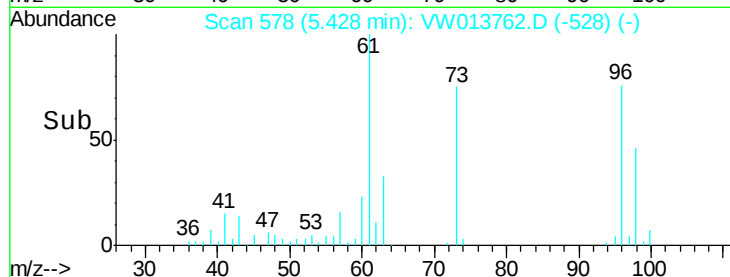
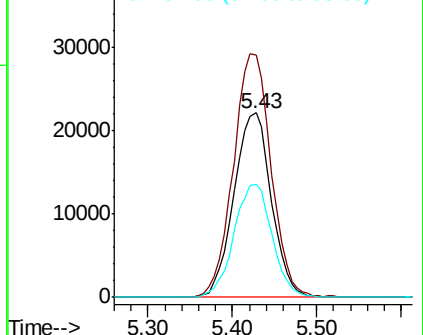


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.893 ug/l

RT: 6.31 min Scan# 723

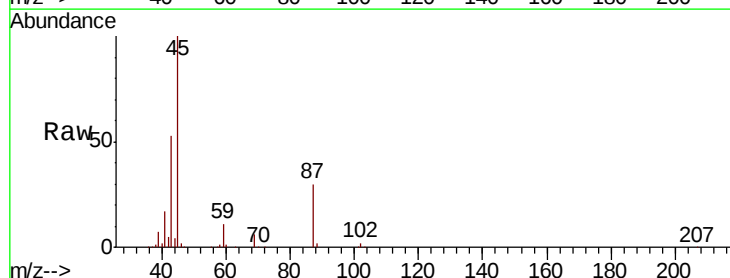
Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Tgt Ion: 45 Resp: 169253

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 52.3  | 43.4  | 65.2  |
| 87  | 29.8  | 21.5  | 32.3  |
| 59  | 10.8  | 9.2   | 13.8  |



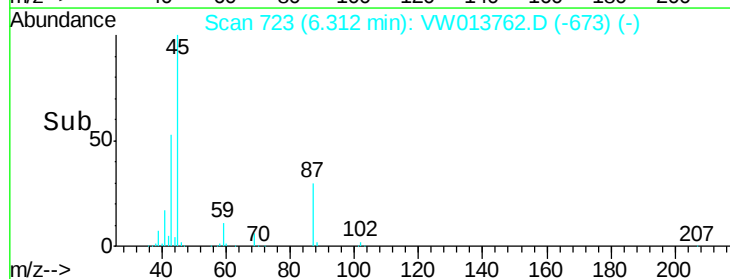
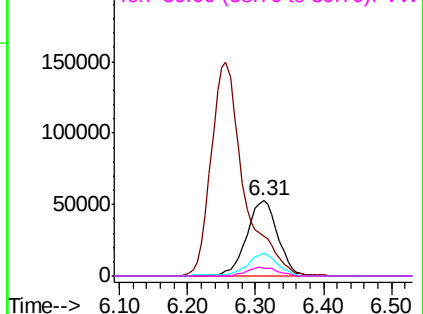
Abundance

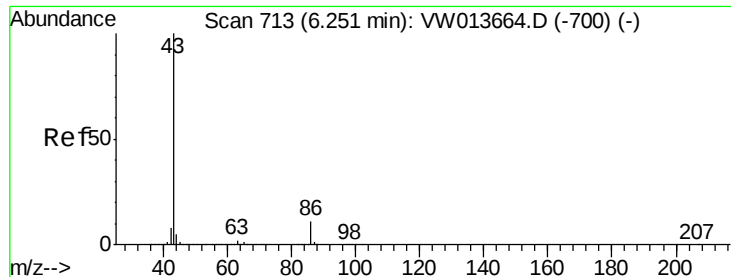
Ion 45.00 (44.70 to 45.70): VW

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: 106.260 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

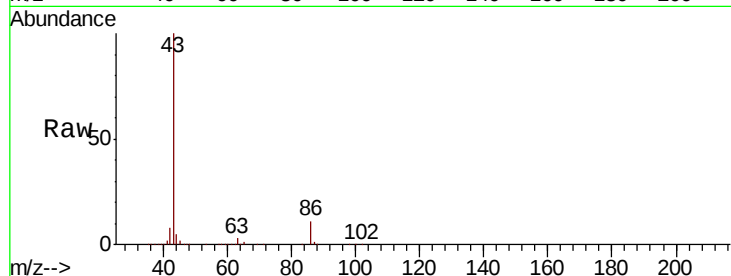
VW1028SBS01

Tot Ion: 43 Resp: 499469

Ion Ratio Lower Upper

43 100

86 10.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

150000

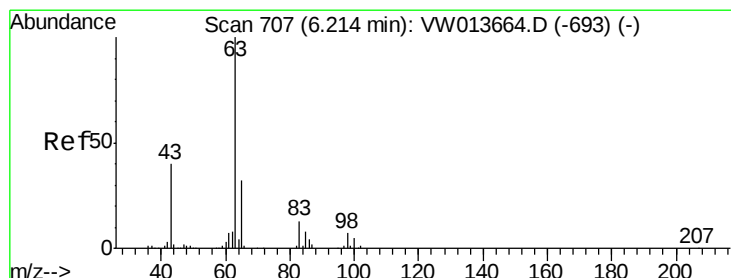
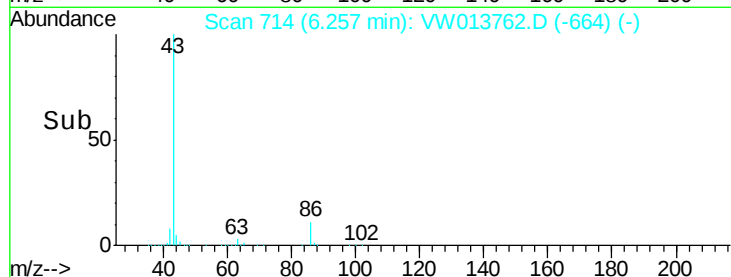
100000

50000

0

6.10 6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 20.848 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

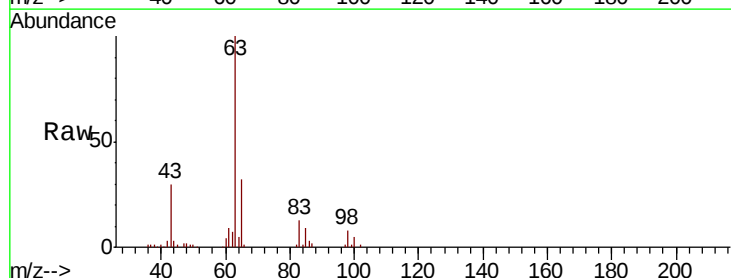
Tgt Ion: 63 Resp: 106960

Ion Ratio Lower Upper

63 100

98 7.6 3.6 10.9

100 4.7 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

6.21

40000

30000

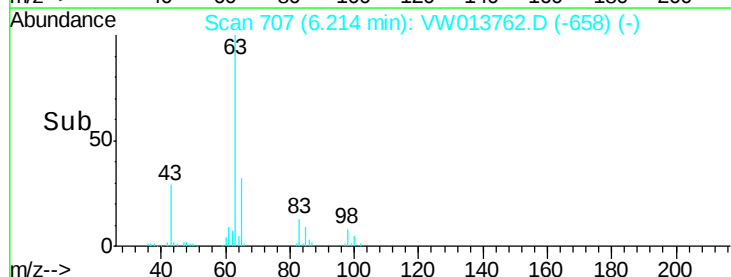
20000

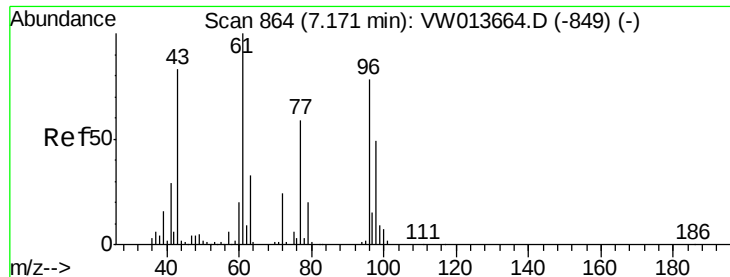
10000

0

6.10 6.20 6.30

Time-->





#25

2-Butanone

Concen: 103.414 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

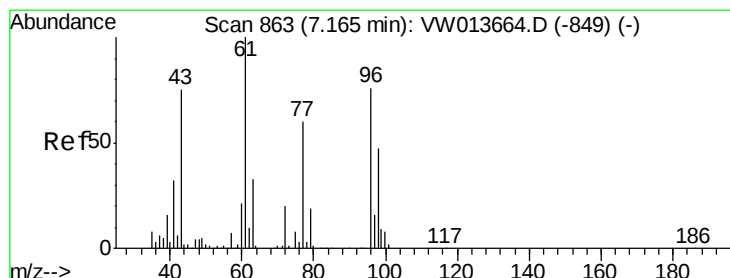
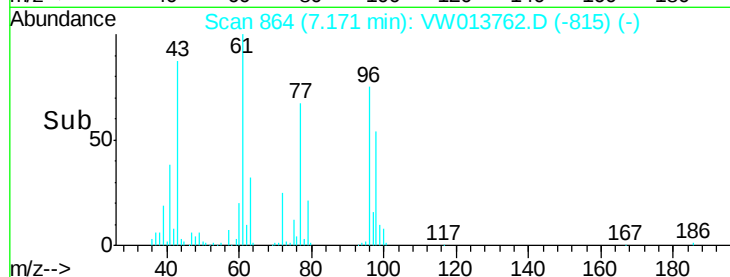
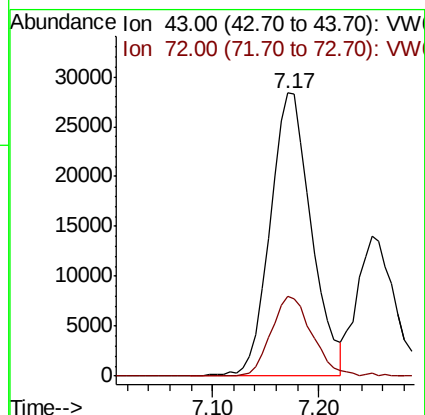
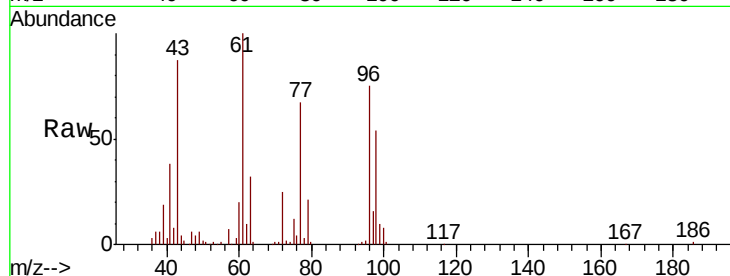
VW1028SBS01

Tot Ion: 43 Resp: 76156

Ion Ratio Lower Upper

43 100

72 28.0 23.6 35.4



#26

2,2-Dichloropropane

Concen: 21.912 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013762.D

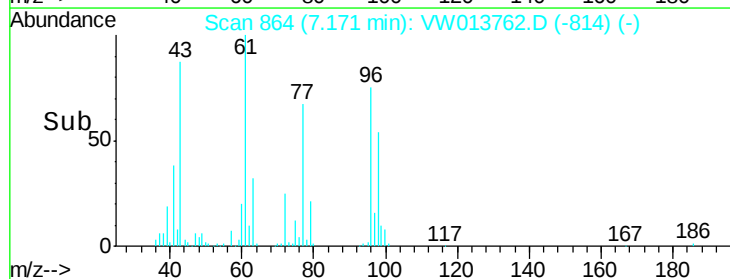
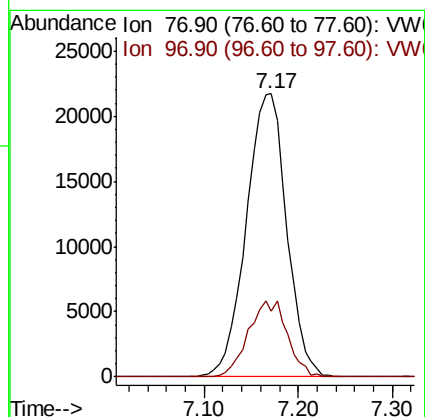
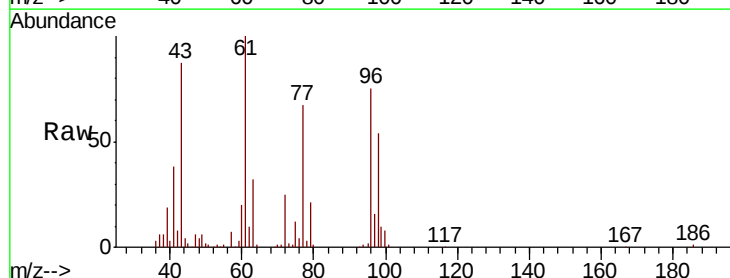
Acq: 28 Oct 2019 13:21

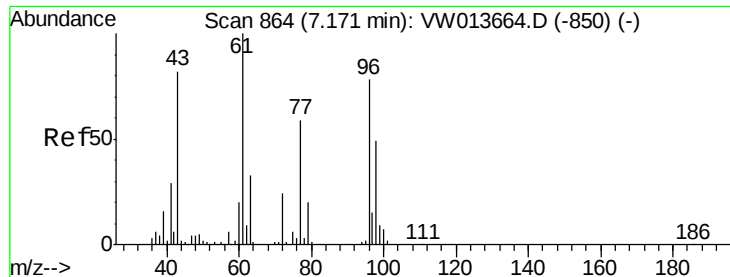
Tgt Ion: 77 Resp: 65007

Ion Ratio Lower Upper

77 100

97 25.9 12.8 38.4



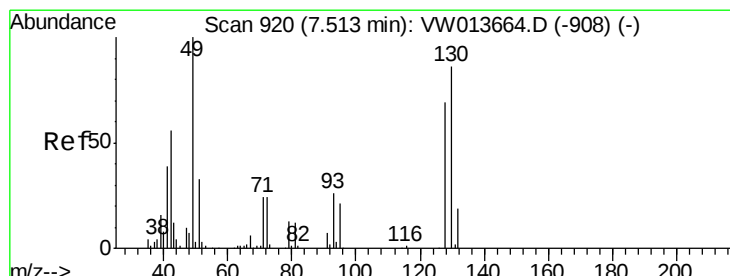
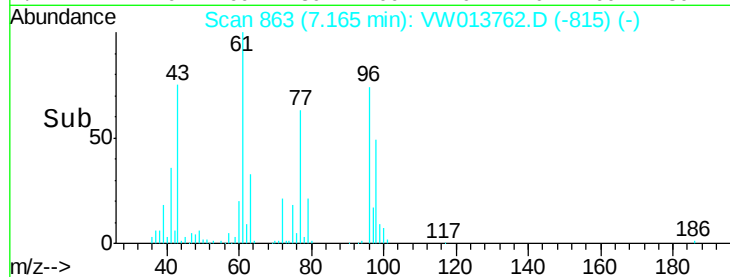
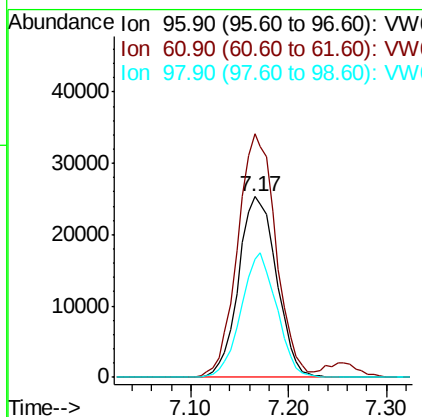
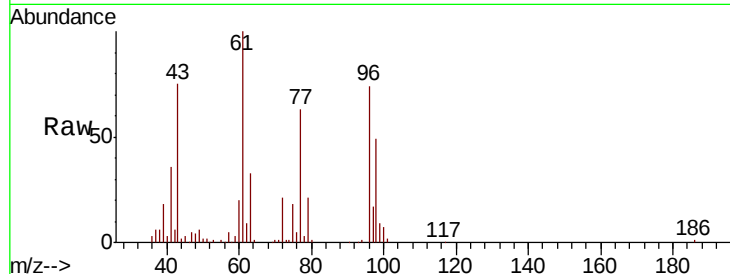


#27

cis-1,2-Dichloroethene  
Concen: 20.672 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

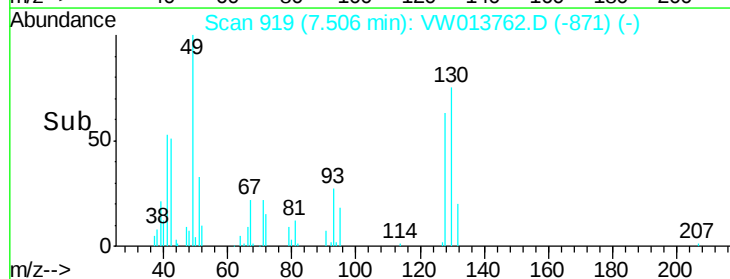
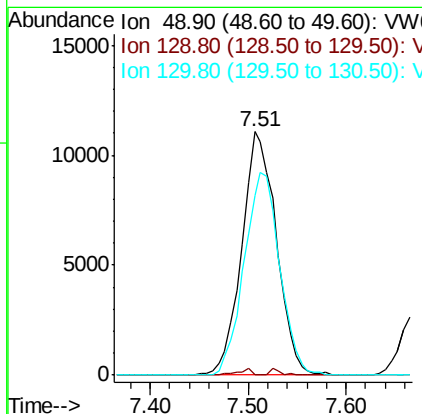
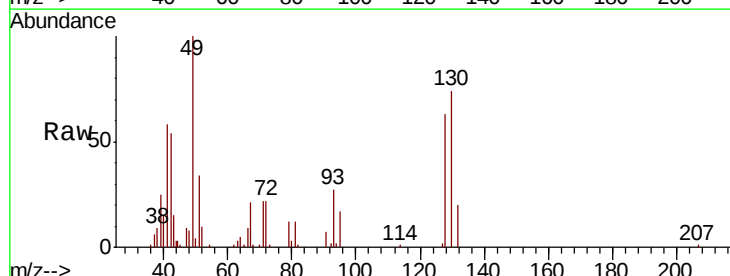
Tot Ion: 96 Resp: 68254  
Ion Ratio Lower Upper  
96 100  
61 135.9 0.0 266.0  
98 64.7 0.0 126.8

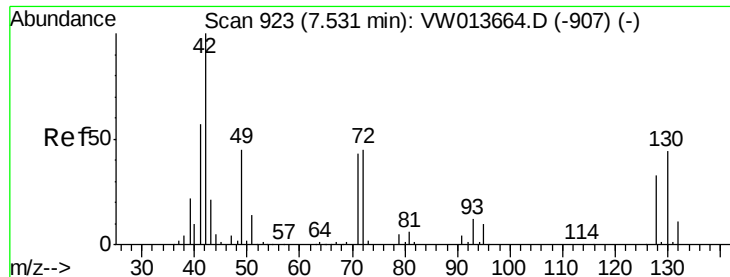


#28

Bromochloromethane  
Concen: 15.814 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 49 Resp: 27185  
Ion Ratio Lower Upper  
49 100  
129 0.9 0.0 0.6#  
130 85.3 67.5 101.3

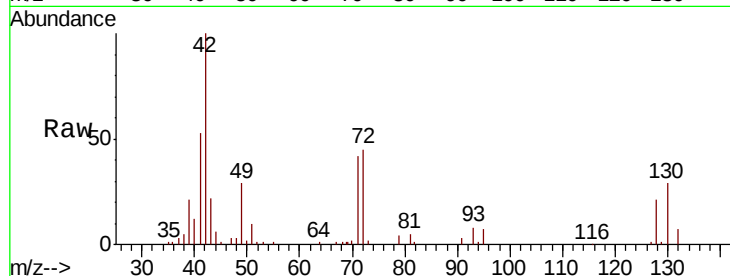




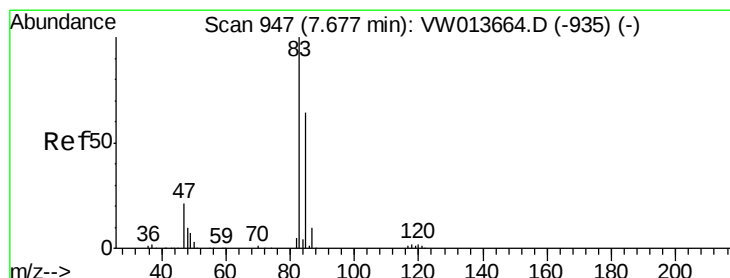
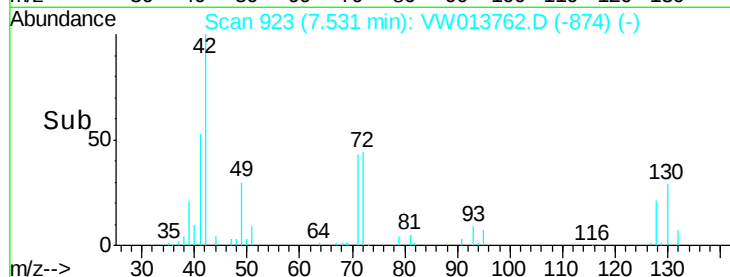
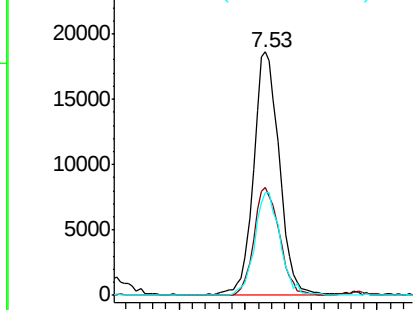
#29  
Tetrahydrofuran  
Concen: 111.329 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 43.9  | 35.3  | 52.9  |
| 71      | 41.7  | 33.3  | 49.9  |

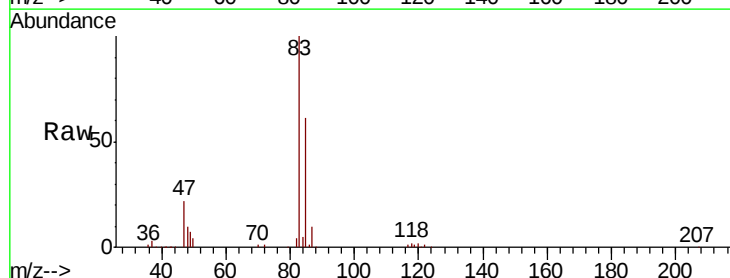


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

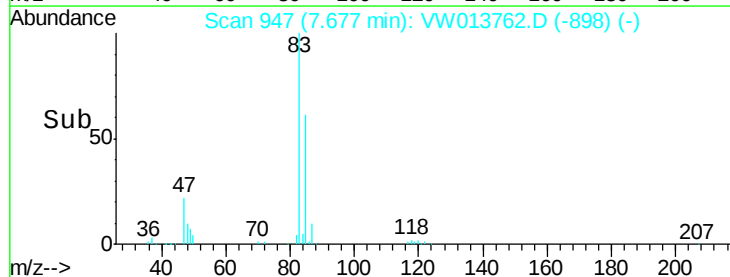
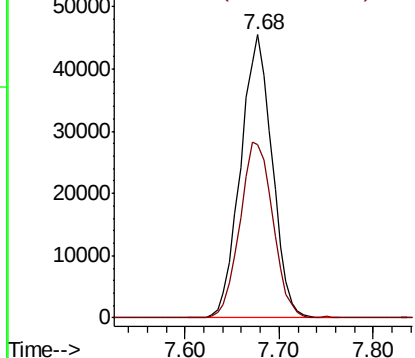


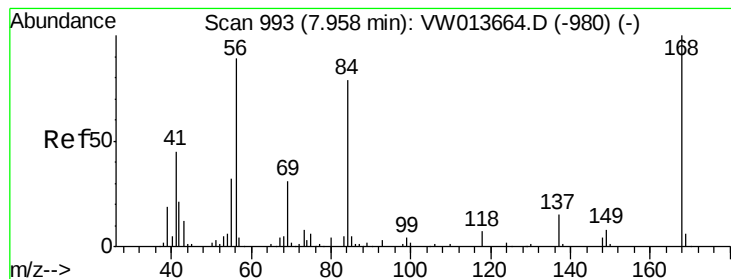
#30  
Chloroform  
Concen: 20.876 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 61.1  | 51.4  | 77.2  |



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





#31

Cyclohexane

Concen: 20.697 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

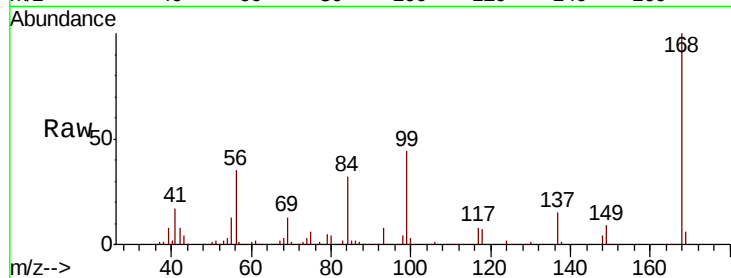
Tot Ion: 56 Resp: 111126

Ion Ratio Lower Upper

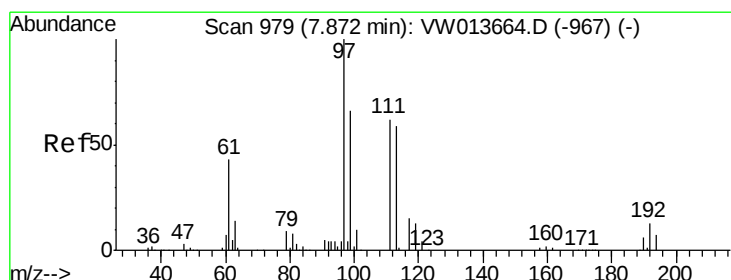
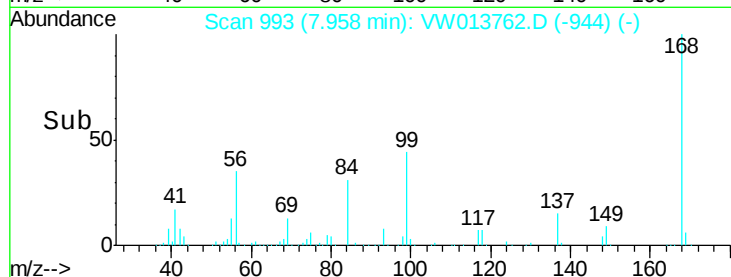
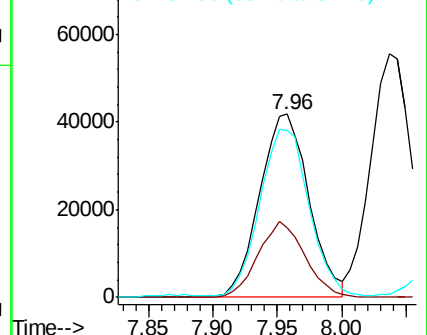
56 100

69 38.1 27.5 41.3

84 90.4 70.8 106.2



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



#32

1,1,1-Trichloroethane

Concen: 21.709 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

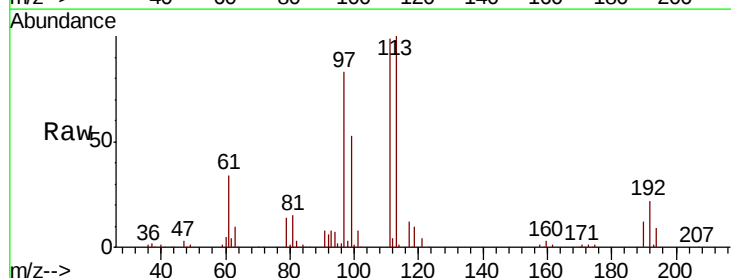
Tgt Ion: 97 Resp: 86402

Ion Ratio Lower Upper

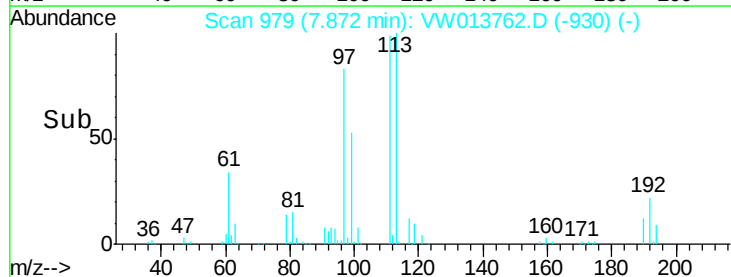
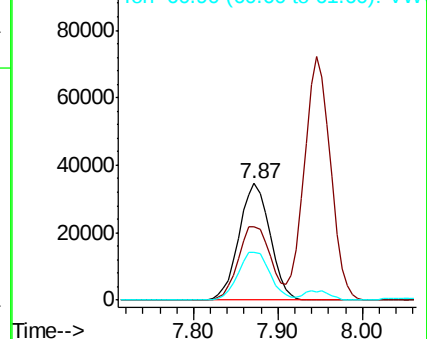
97 100

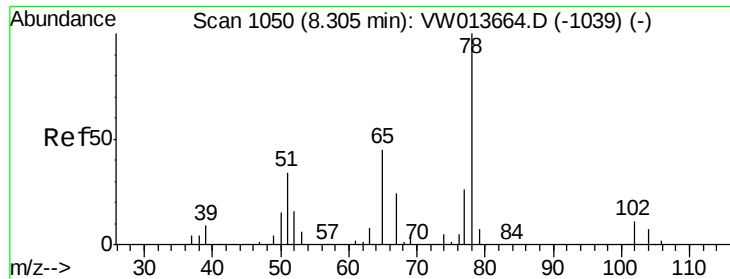
99 66.5 52.0 78.0

61 42.3 33.8 50.6



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

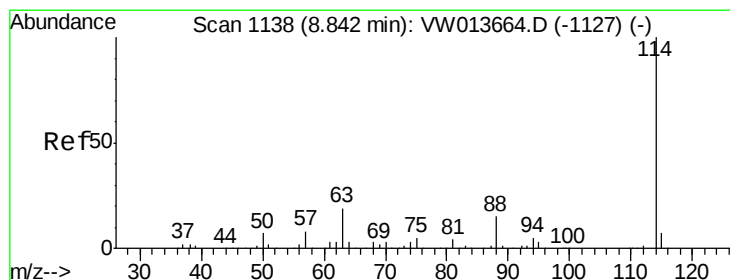
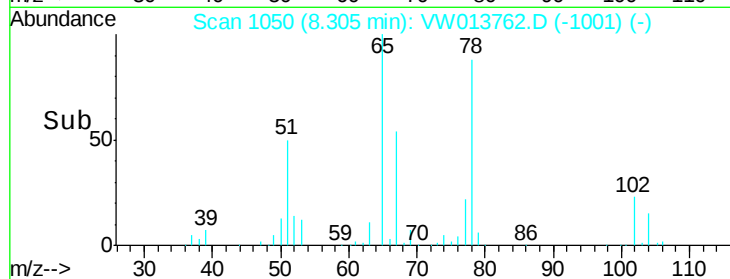
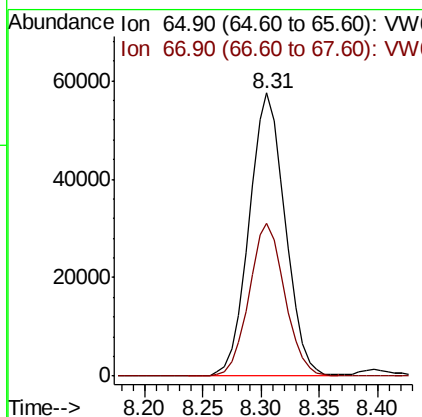
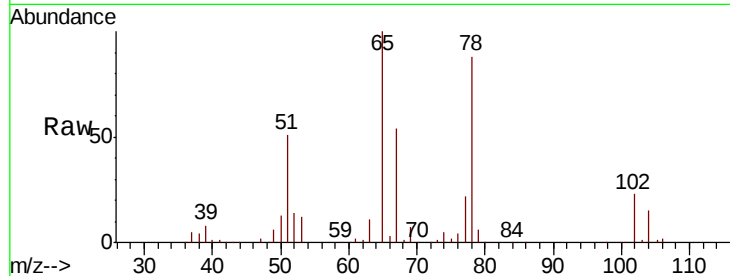




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.101 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

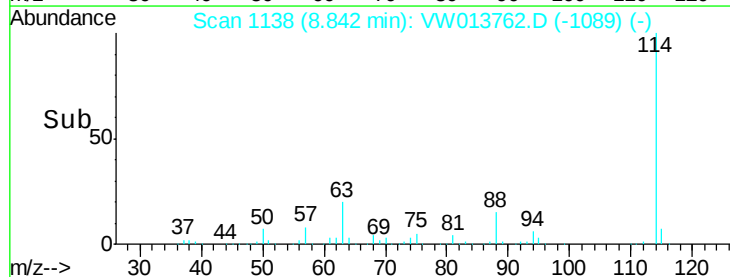
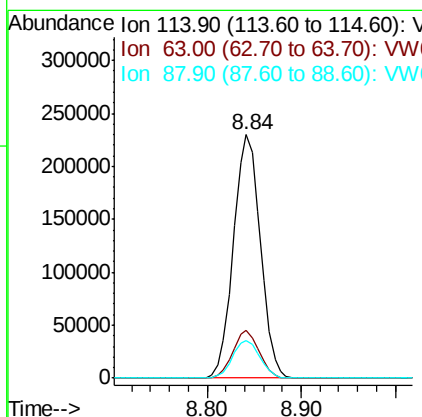
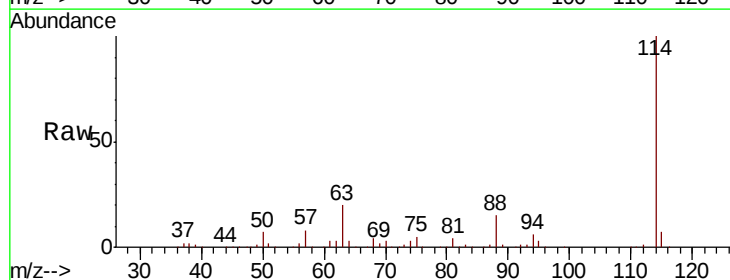
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

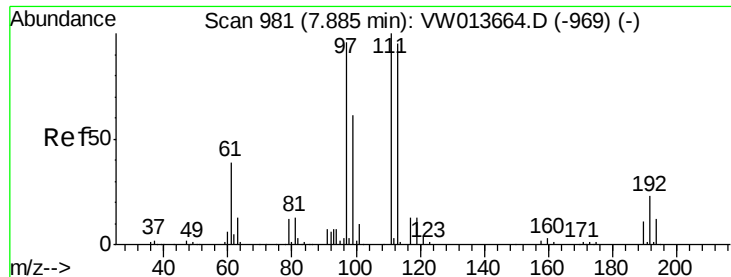
Tot Ion: 65 Resp: 123448  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

Tgt Ion: 114 Resp: 454823  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 37.6  
 88 15.2 0.0 30.2

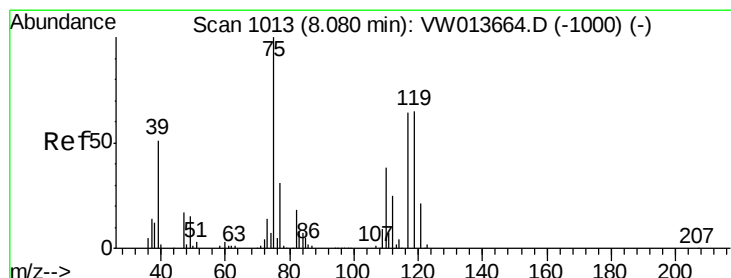
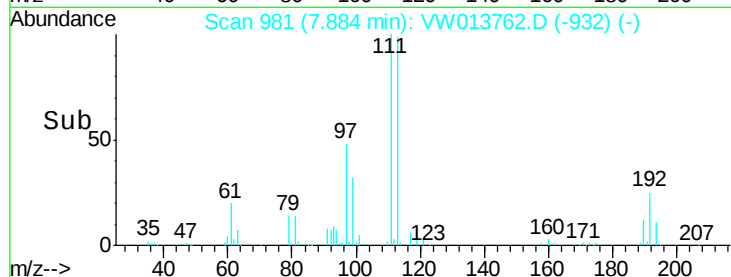
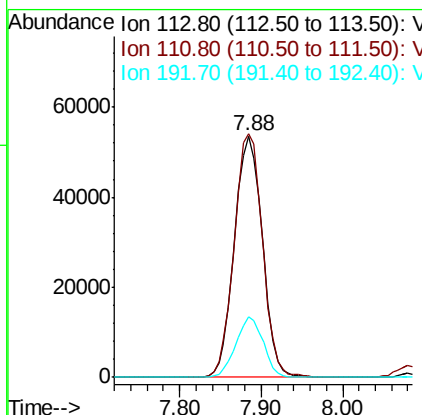
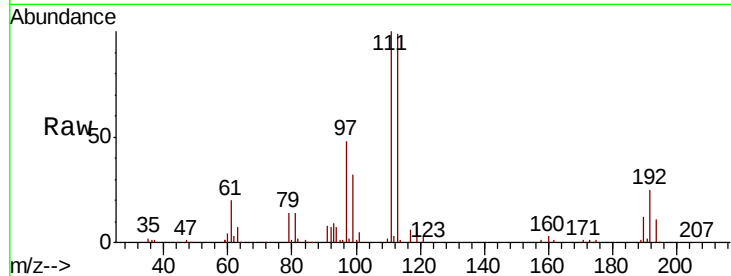




#35  
 Dibromofluoromethane  
 Concen: 50.218 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

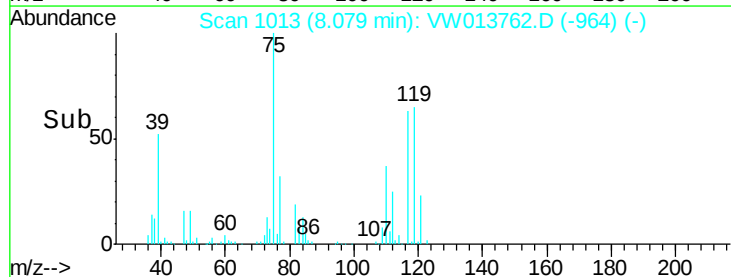
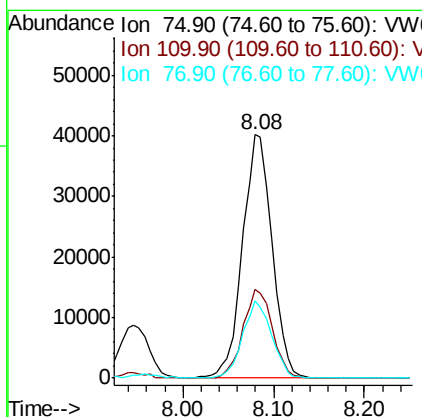
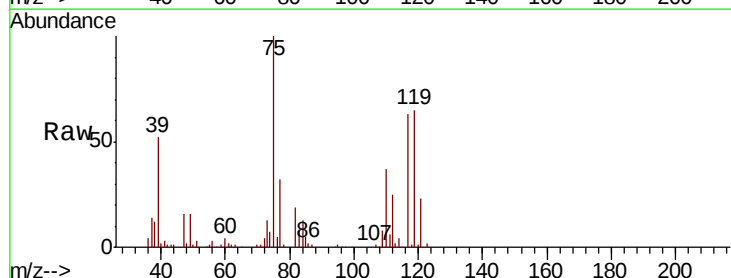
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

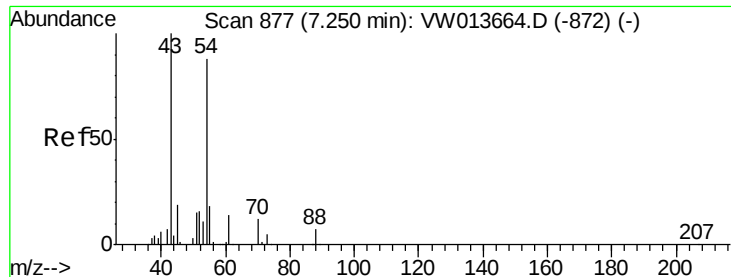
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 83.0  | 124.6 |
| 192     | 24.4  | 19.4  | 29.2  |



#36  
 1,1-Dichloropropene  
 Concen: 21.392 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.2  | 18.7  | 56.1  |
| 77      | 31.3  | 25.4  | 38.0  |

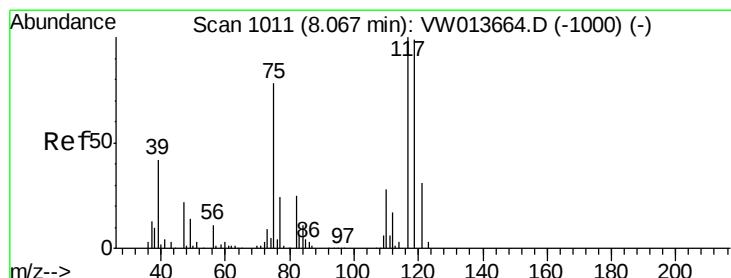
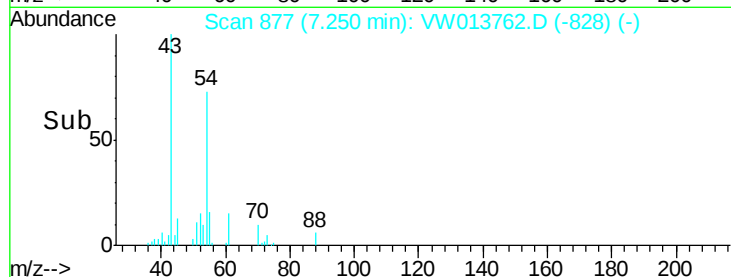
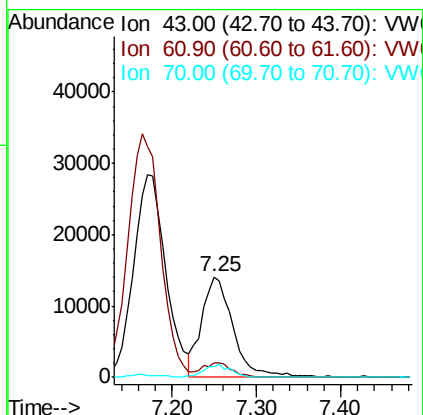
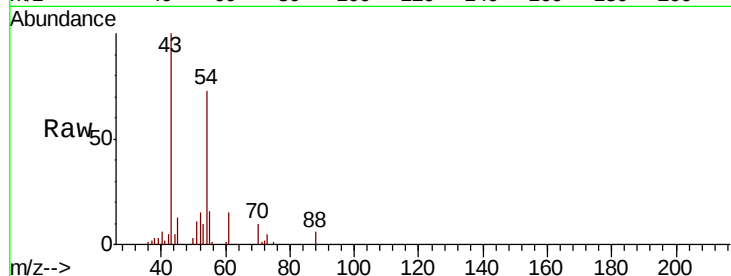




#37  
Ethyl Acetate  
Concen: 22.564 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

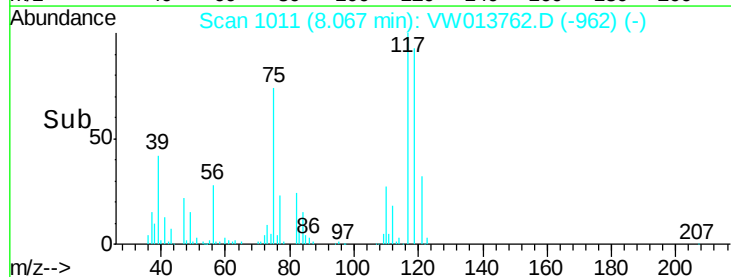
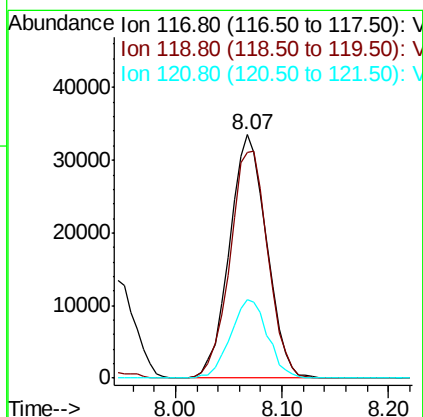
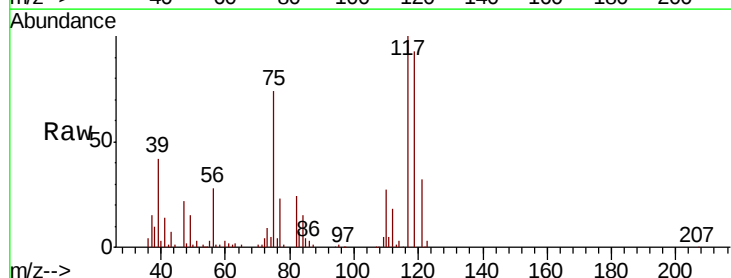
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

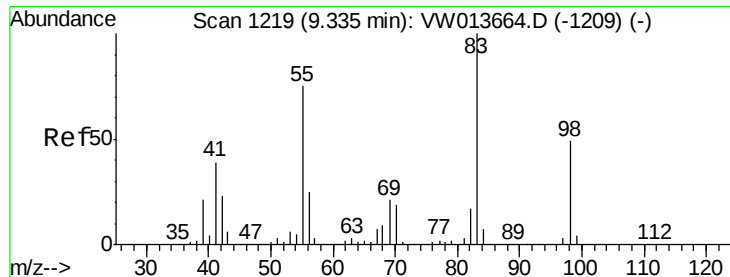
Tot Ion: 43 Resp: 36586  
Ion Ratio Lower Upper  
43 100  
61 13.6 11.7 17.5  
70 11.0 8.8 13.2



#38  
Carbon Tetrachloride  
Concen: 21.575 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 117 Resp: 82296  
Ion Ratio Lower Upper  
117 100  
119 92.9 79.0 118.4  
121 32.3 24.5 36.7

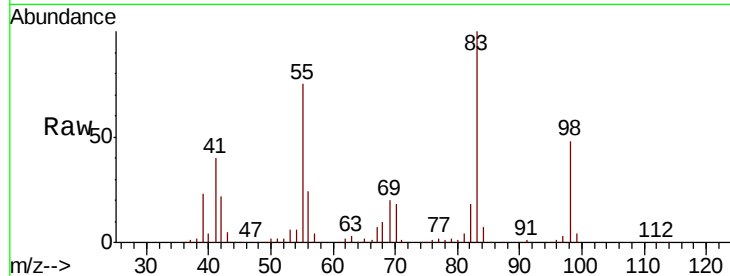




#39  
Methvlcvclohexane  
Concen: 21.110 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBS01

| Tot Ion | 83.00 | Resp  | 115477 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 55      | 74.6  | 59.9  | 89.9   |
| 98      | 48.0  | 39.4  | 59.2   |

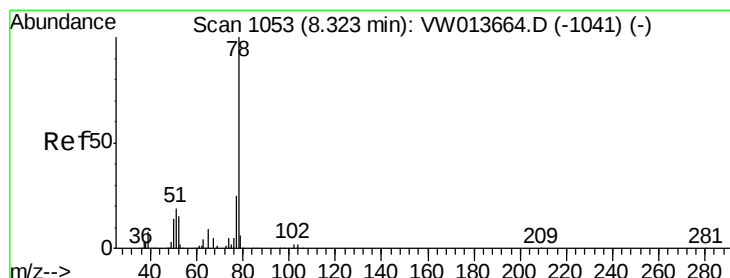
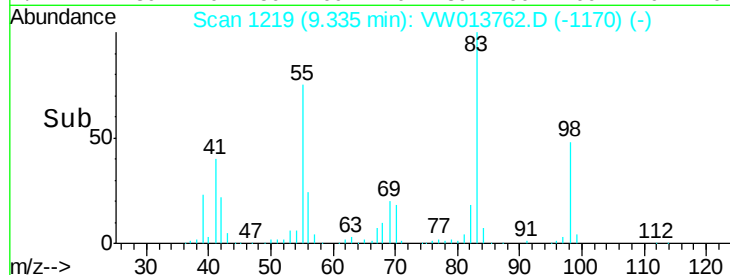
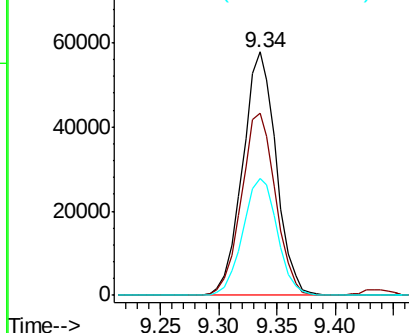


Abundance

Ion 83.00 (82.70 to 83.70): VW

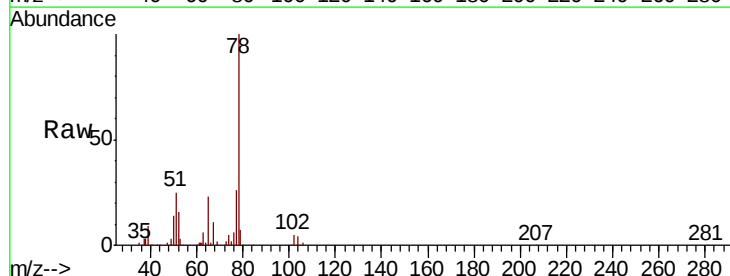
Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



#40  
Benzene  
Concen: 21.135 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

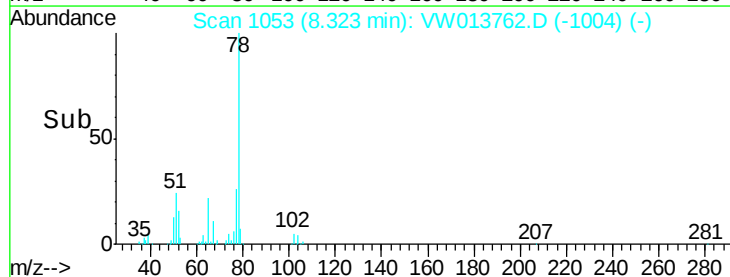
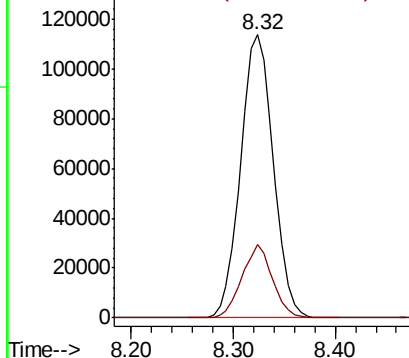
| Tgt Ion | 78.00 | Resp  | 253353 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 78      | 100   |       |        |
| 77      | 25.8  | 19.6  | 29.4   |

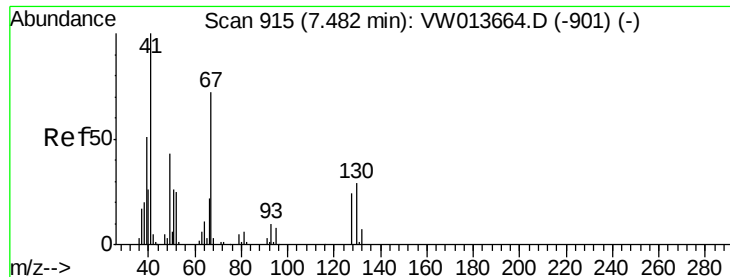


Abundance

Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 22.033 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

Tot Ion: 41 Resp: 22278

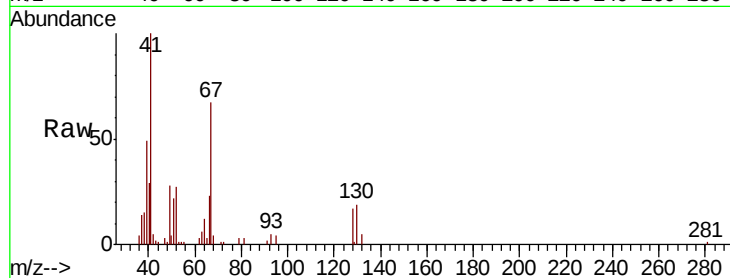
Ion Ratio Lower Upper

41 100

39 50.9 44.8 67.2

67 66.3 59.3 88.9

52 27.6 23.4 35.0



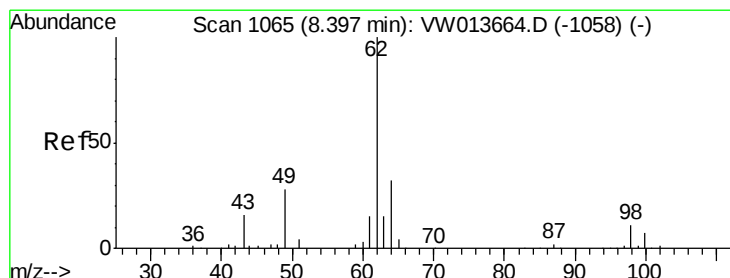
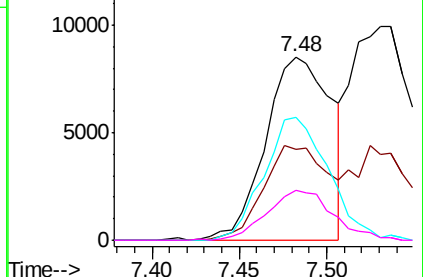
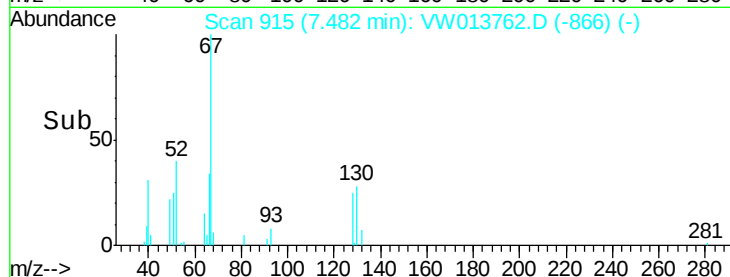
Abundance Ion 41.00 (40.70 to 41.70): VW

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

Time-->



#42

1,2-Dichloroethane

Concen: 21.565 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013762.D

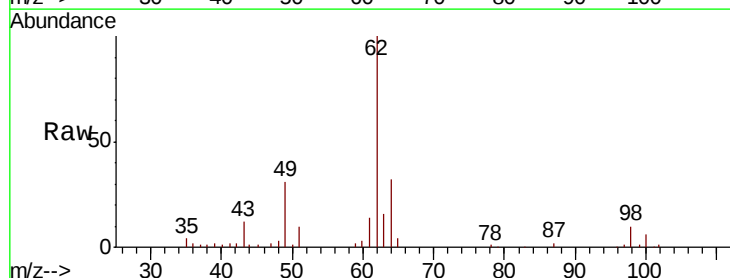
Acq: 28 Oct 2019 13:21

Tgt Ion: 62 Resp: 65141

Ion Ratio Lower Upper

62 100

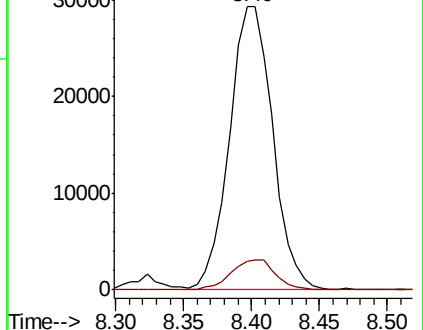
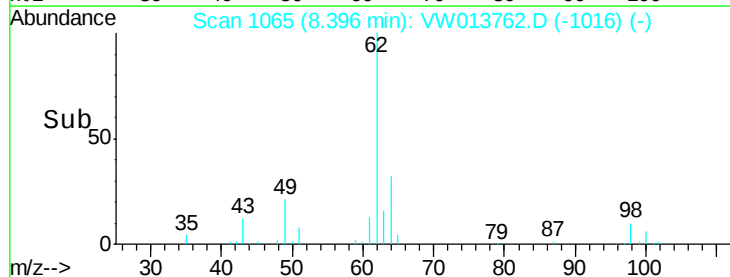
98 10.8 0.0 22.4

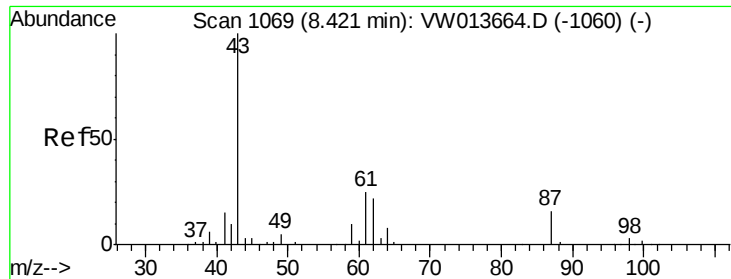


Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW

Time-->





#43

Isopropyl Acetate

Concen: 21.292 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

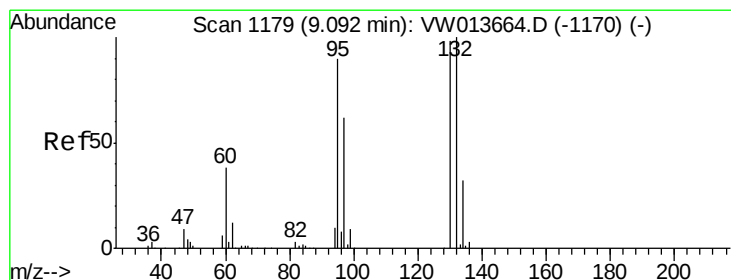
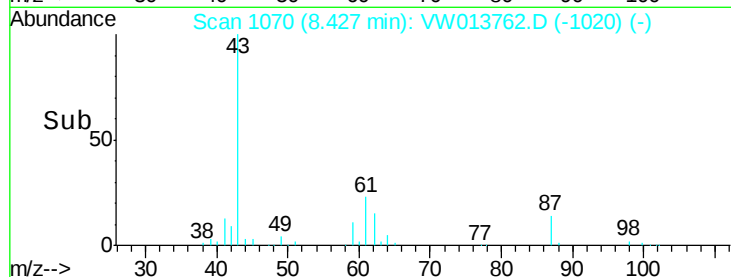
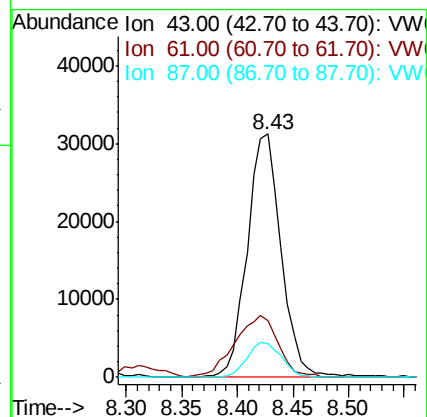
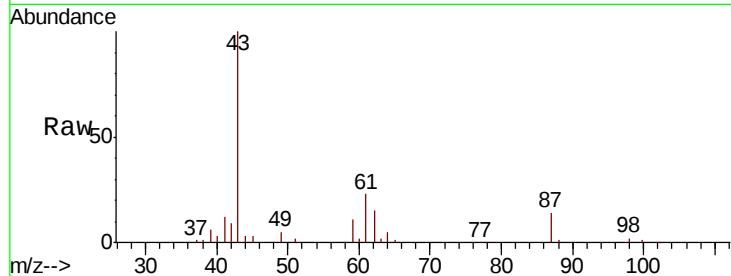
Tot Ion: 43 Resp: 66085

Ion Ratio Lower Upper

43 100

61 32.7 26.1 39.1

87 14.9 11.4 17.0



#44

Trichloroethene

Concen: 20.650 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013762.D

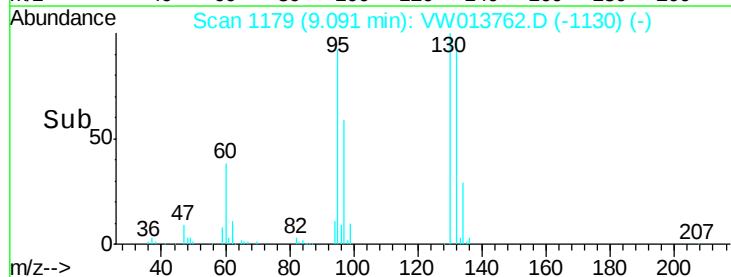
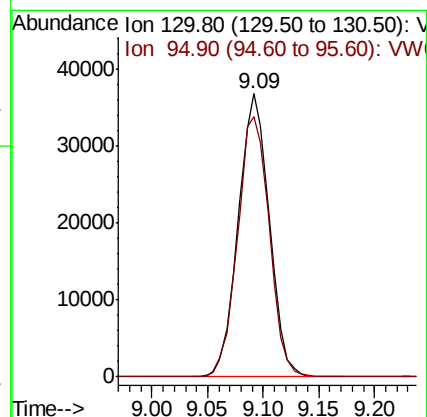
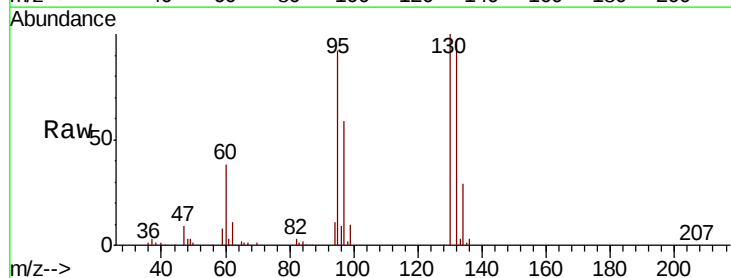
Acq: 28 Oct 2019 13:21

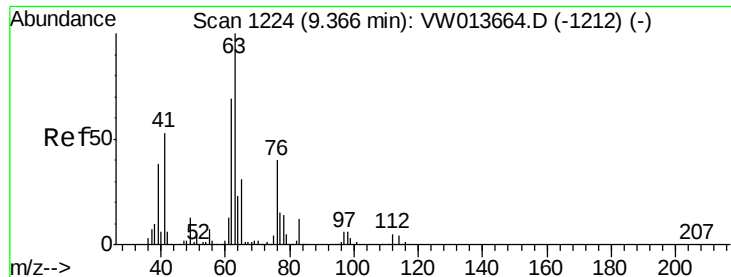
Tgt Ion: 130 Resp: 70908

Ion Ratio Lower Upper

130 100

95 92.2 0.0 184.6





#45

1,2-Dichloropropane

Concen: 20.984 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

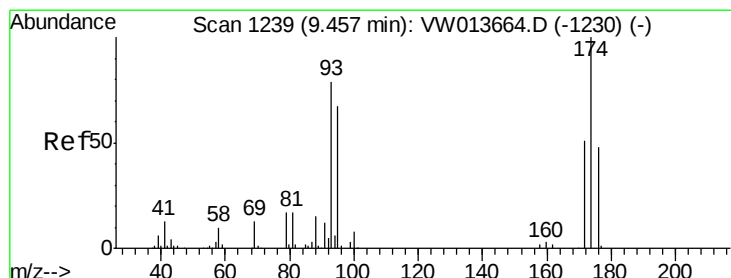
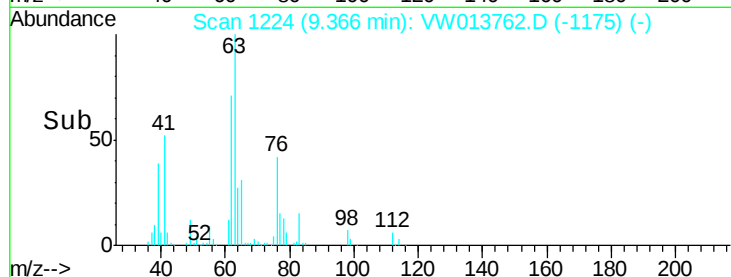
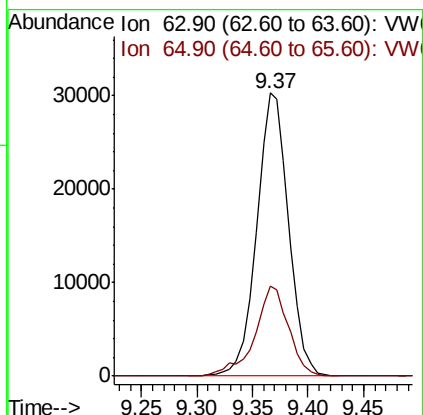
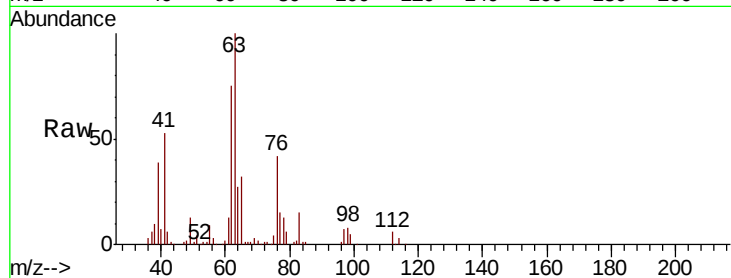
VW1028SBSD01

Tot Ion: 63 Resp: 60083

Ion Ratio Lower Upper

63 100

65 31.8 25.2 37.8



#46

Dibromomethane

Concen: 21.171 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

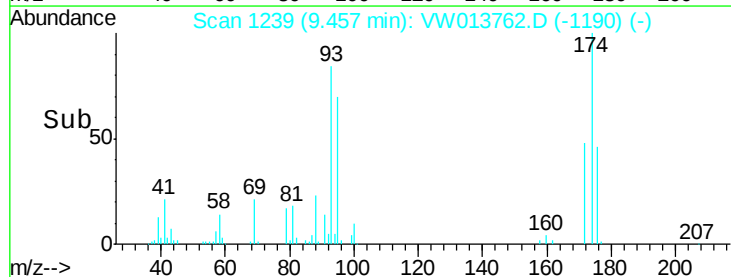
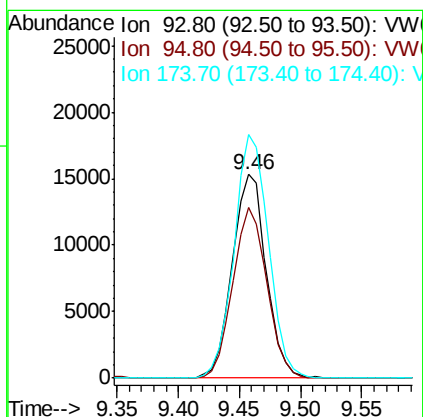
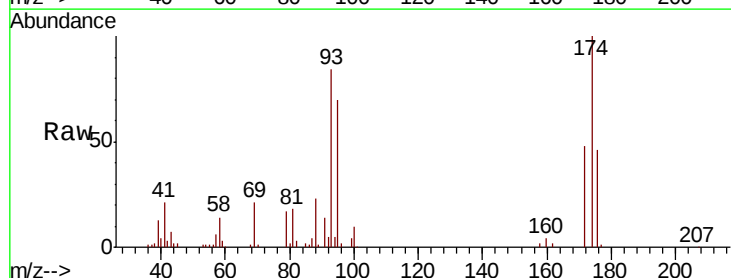
Tgt Ion: 93 Resp: 29421

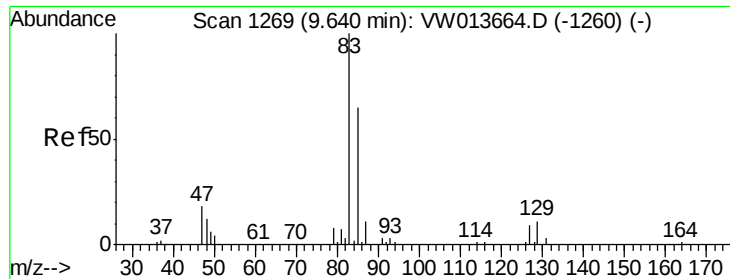
Ion Ratio Lower Upper

93 100

95 83.9 66.5 99.7

174 121.3 99.6 149.4





#47

Bromodichloromethane

Concen: 20.608 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

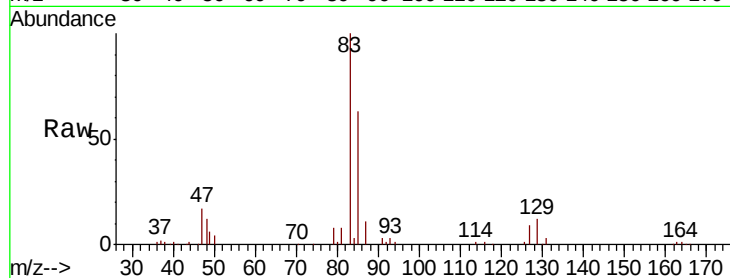
Tot Ion: 83 Resp: 74101

Ion Ratio Lower Upper

83 100

85 63.0 51.8 77.6

127 8.8 7.3 10.9



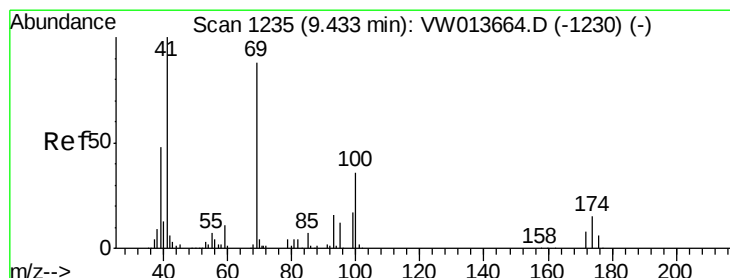
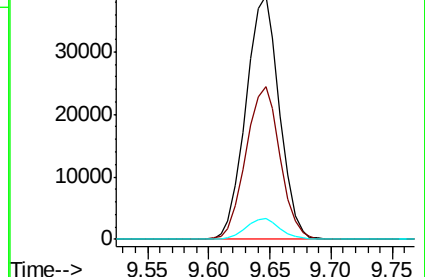
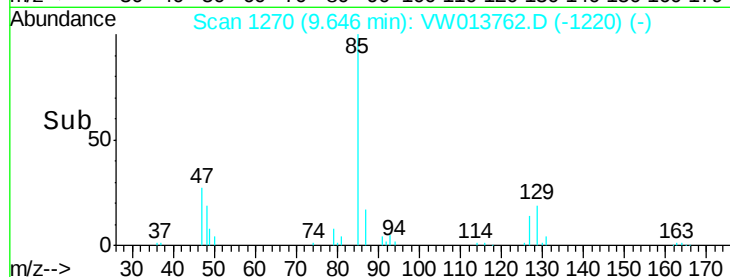
Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW

9.65

Time-->



#48

Methyl methacrylate

Concen: 21.383 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

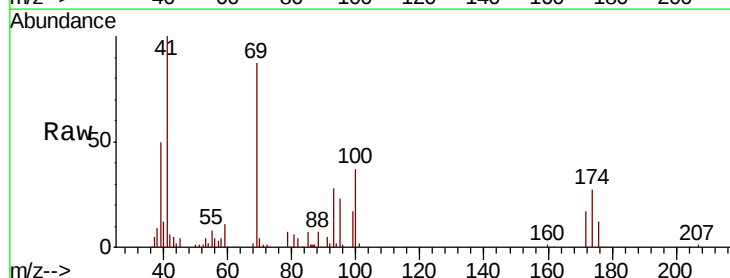
Tgt Ion: 41 Resp: 32911

Ion Ratio Lower Upper

41 100

69 85.2 67.6 101.4

39 47.4 38.6 58.0



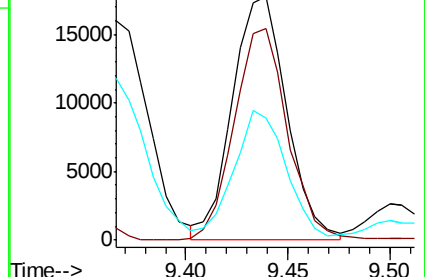
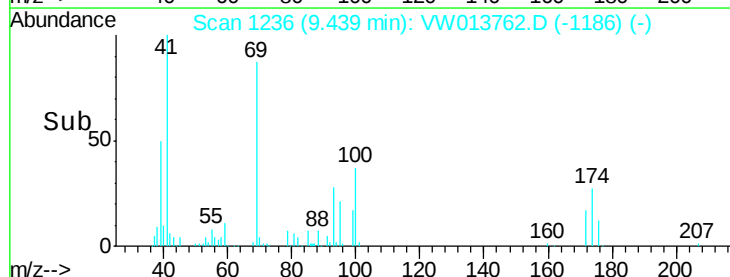
Abundance Ion 41.00 (40.70 to 41.70): VW

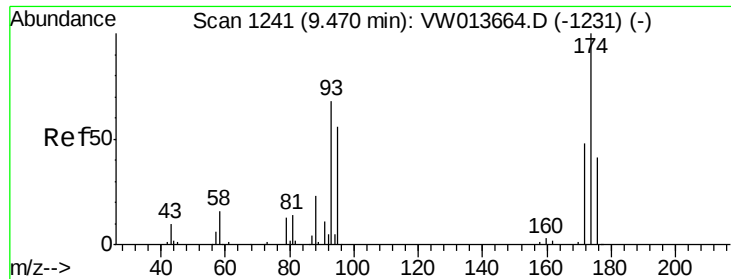
Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

9.44

Time-->

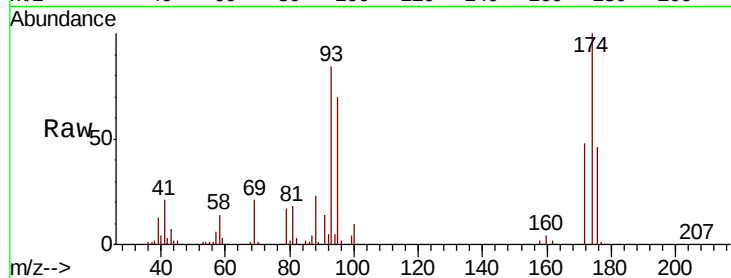




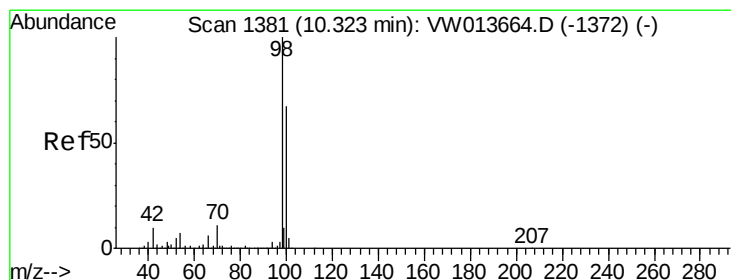
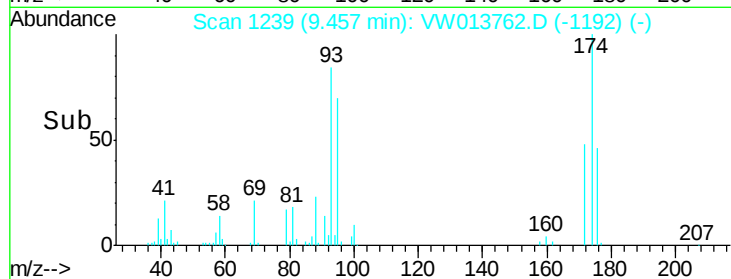
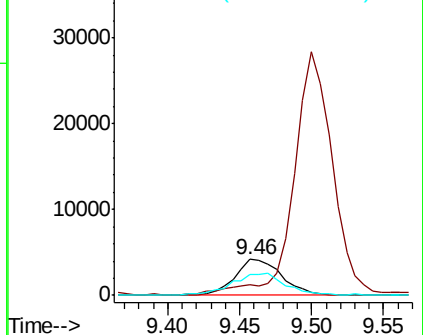
#49  
1,4-Dioxane  
Concen: 459.493 ug/l  
RT: 9.46 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

Tot Ion: 88 Resp: 9436  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 70.9 58.9 88.3

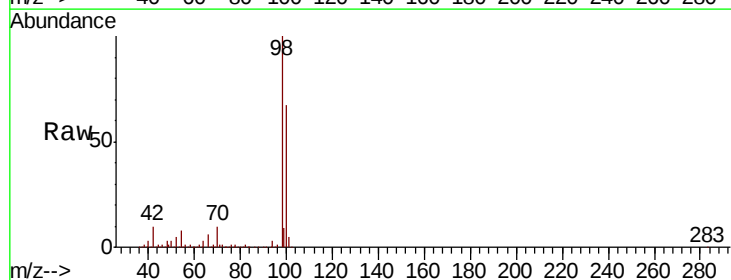


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

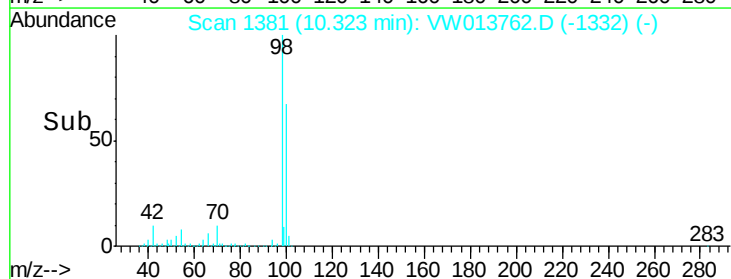
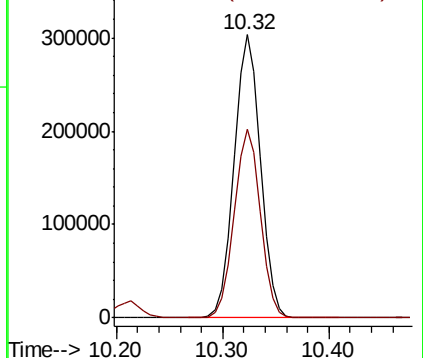


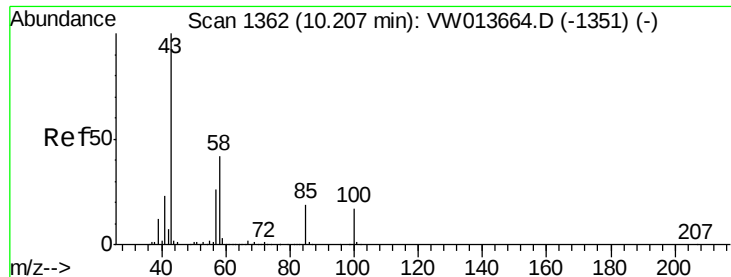
#50  
Toluene-d8  
Concen: 51.276 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 98 Resp: 528037  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.4 80.0



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





#51

4-Methyl-2-Pentanone

Concen: 107.907 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleID :

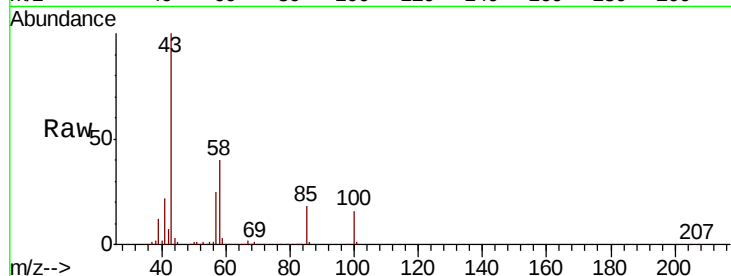
VW1028SBS01

Tot Ion: 43 Resp: 166424

Ion Ratio Lower Upper

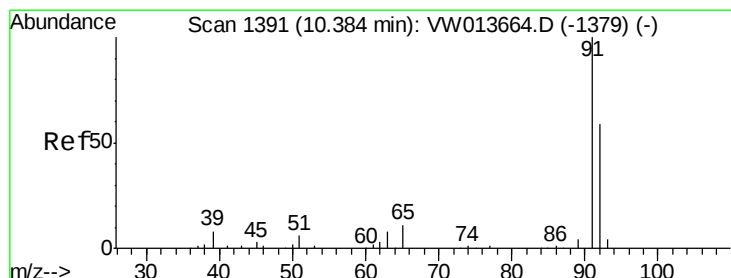
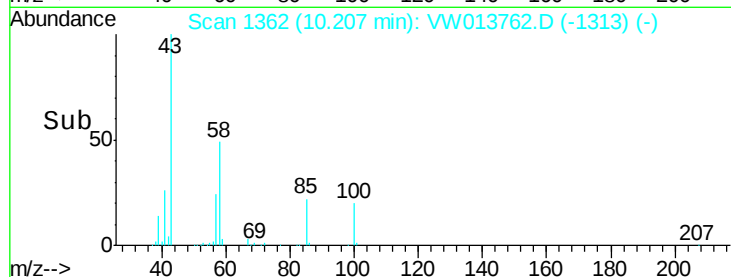
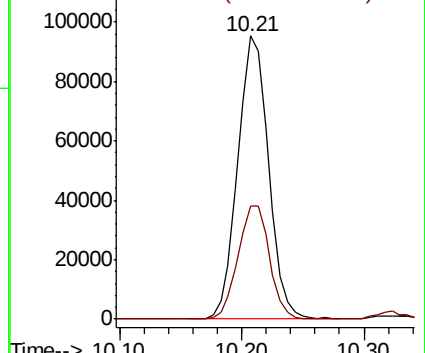
43 100

58 41.0 32.6 49.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 20.900 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013762.D

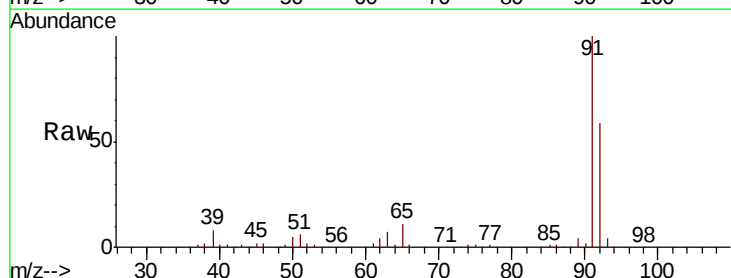
Acq: 28 Oct 2019 13:21

Tgt Ion: 92 Resp: 161607

Ion Ratio Lower Upper

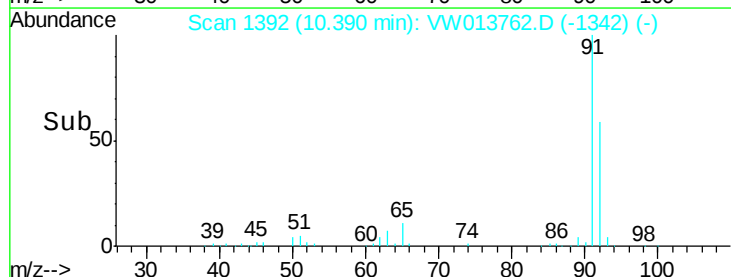
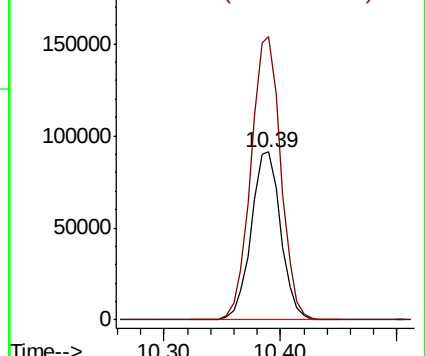
92 100

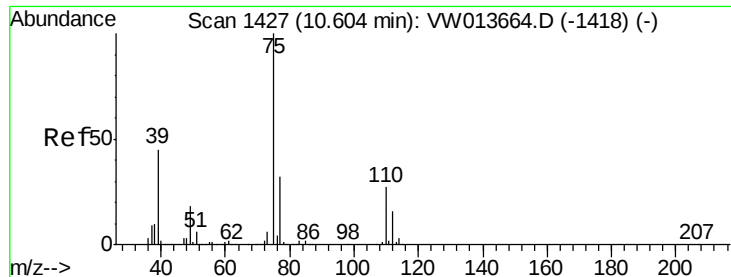
91 170.7 134.5 201.7



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: 20.852 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

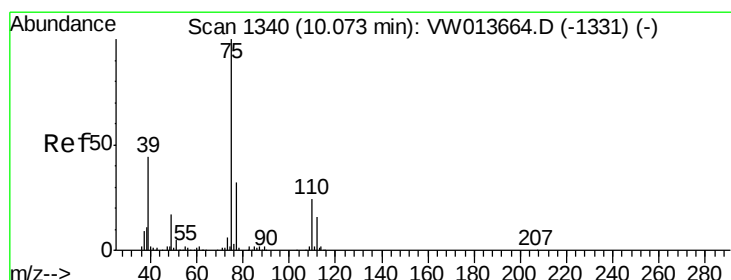
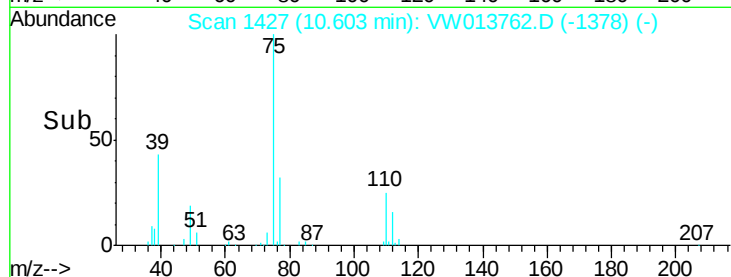
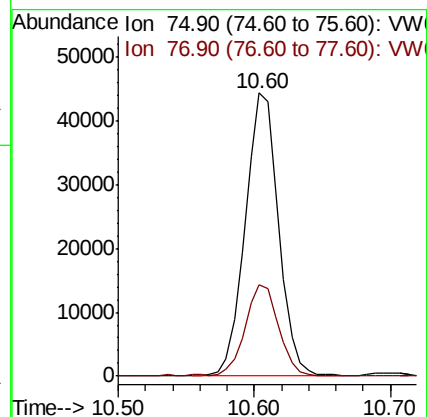
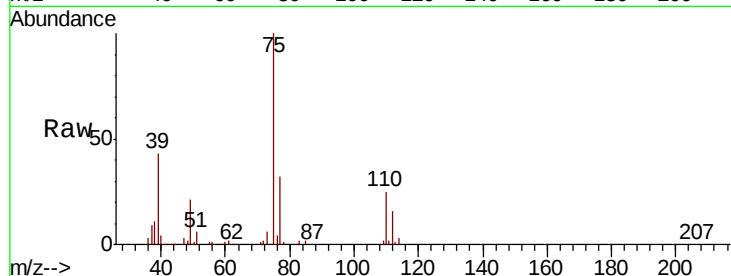
VW1028SBSD01

Tot Ion: 75 Resp: 75903

Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3



#54

cis-1,3-Dichloropropene

Concen: 20.706 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

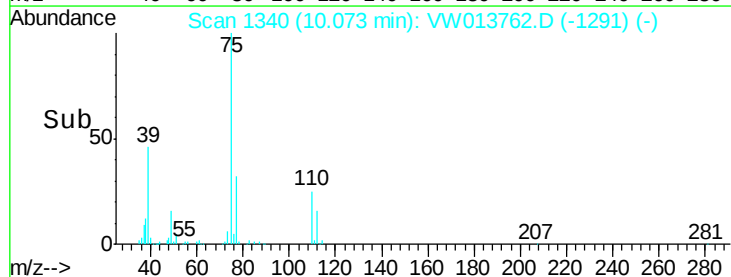
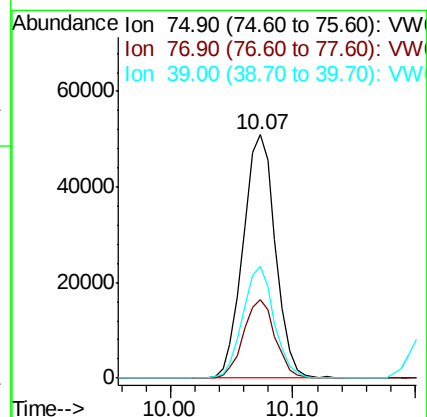
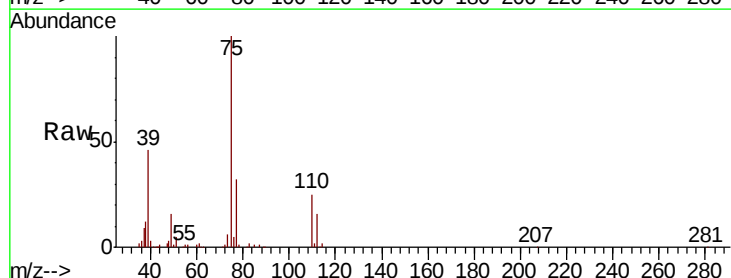
Tgt Ion: 75 Resp: 92990

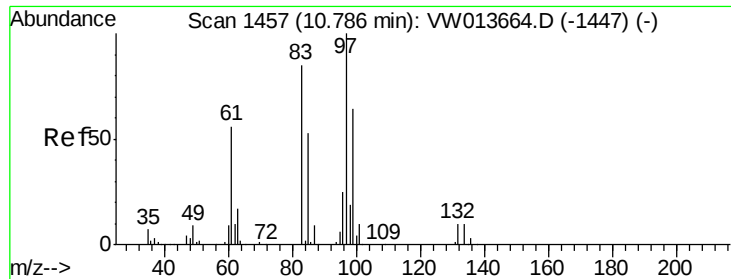
Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6

39 45.9 35.3 52.9

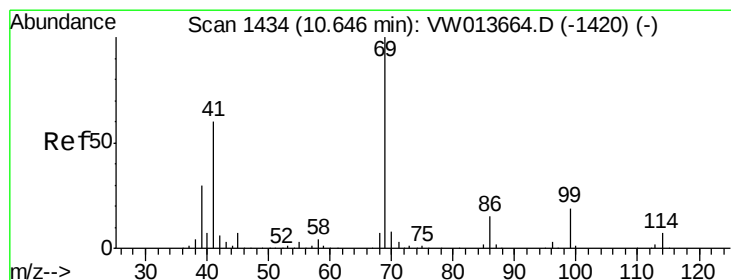
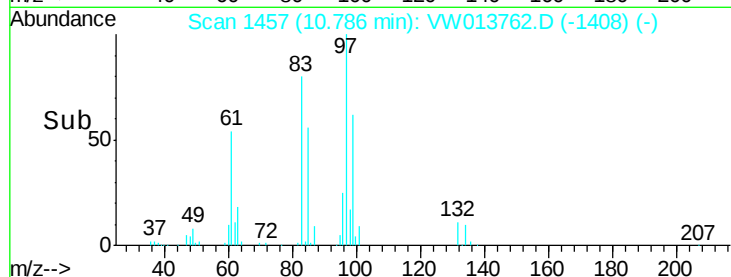
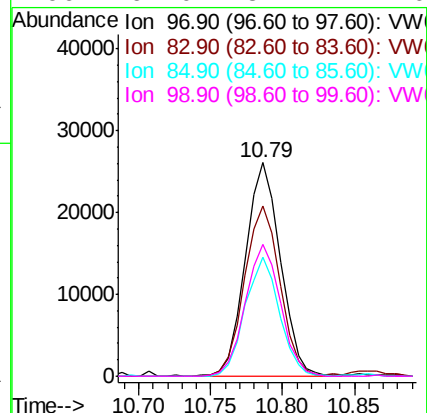
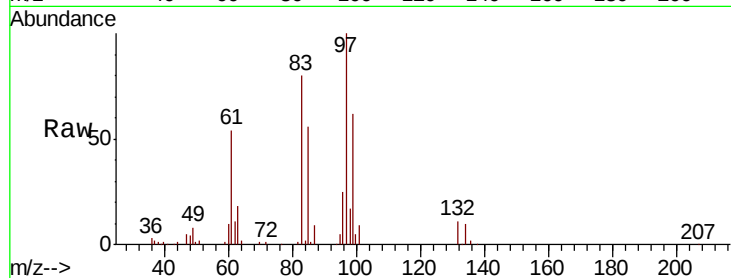




#55  
 1,1,2-Trichloroethane  
 Concen: 21.238 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

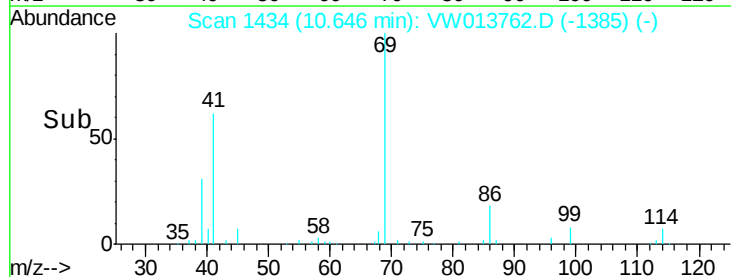
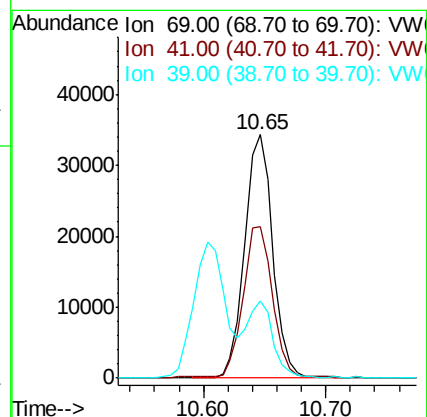
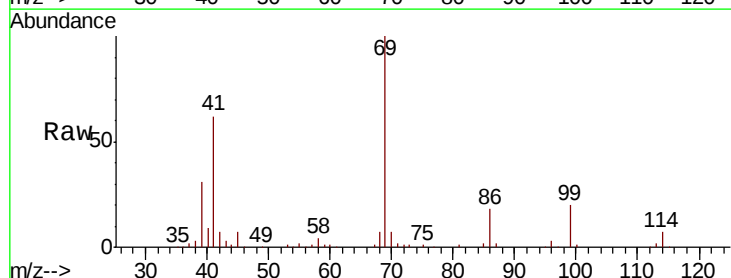
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

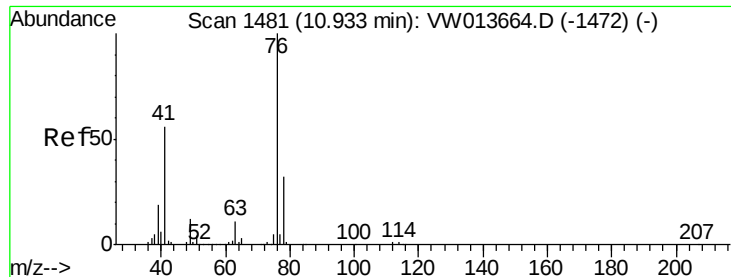
| Tot Ion | 97    | Resp  | 43987 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 80.0  | 67.8  | 101.8 |
| 85      | 56.0  | 42.1  | 63.1  |
| 99      | 62.0  | 51.4  | 77.0  |



#56  
 Ethyl methacrylate  
 Concen: 21.179 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

| Tgt Ion | 69    | Resp  | 54881 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 69      | 100   |       |       |
| 41      | 64.4  | 51.6  | 77.4  |
| 39      | 29.0  | 22.4  | 33.6  |

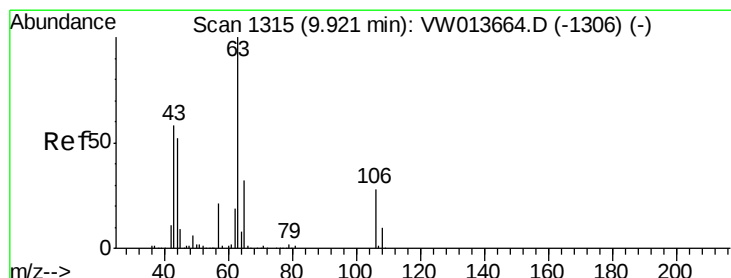
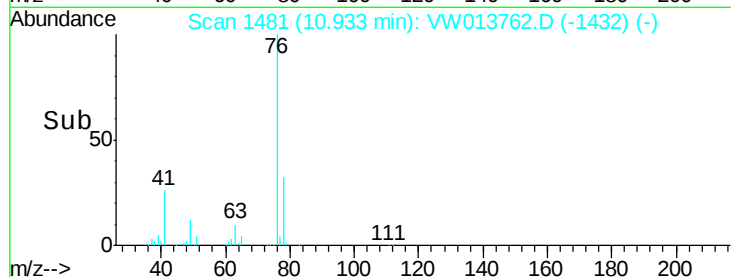
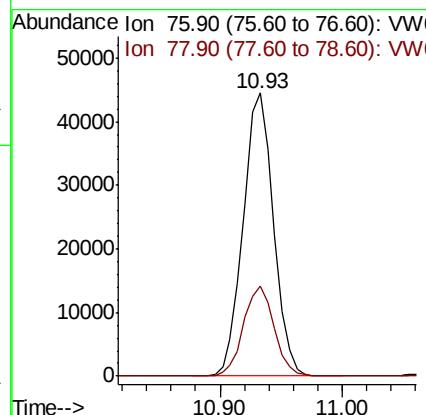
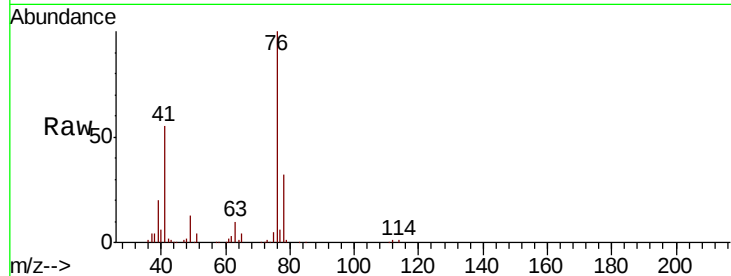




#57  
 1,3-Dichloropropane  
 Concen: 21.488 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

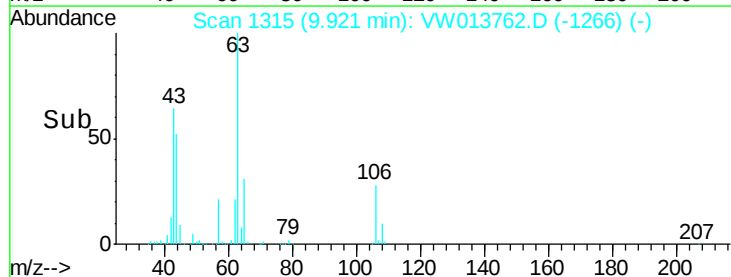
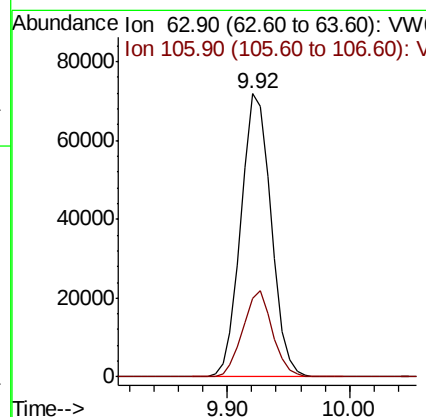
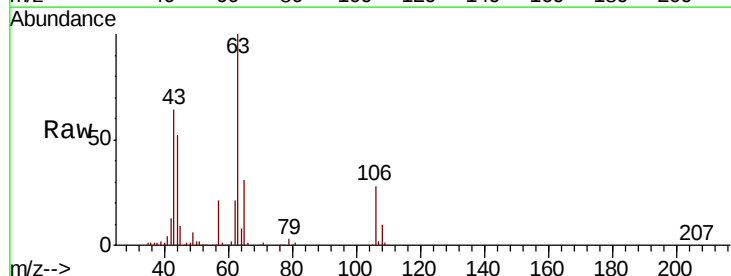
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

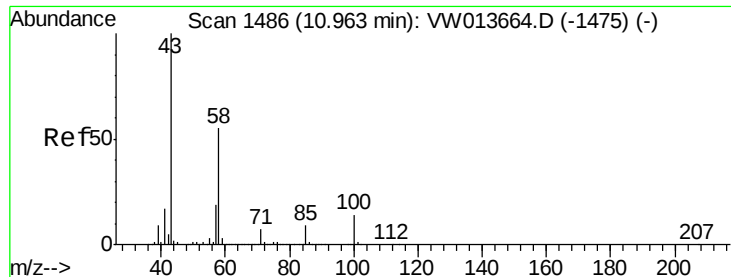
Tot Ion: 76 Resp: 76371  
 Ion Ratio Lower Upper  
 76 100  
 78 32.0 26.0 39.0



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 103.386 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

Tgt Ion: 63 Resp: 123297  
 Ion Ratio Lower Upper  
 63 100  
 106 29.9 23.8 35.8

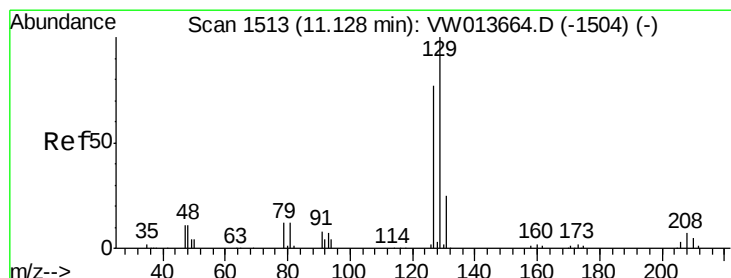
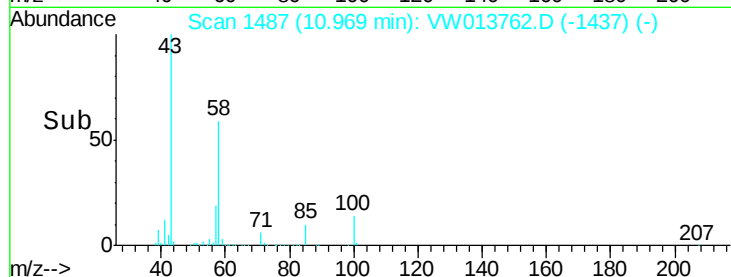
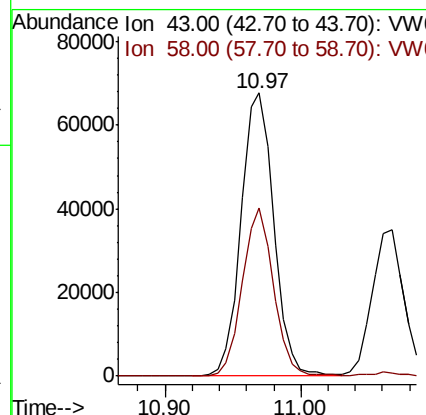
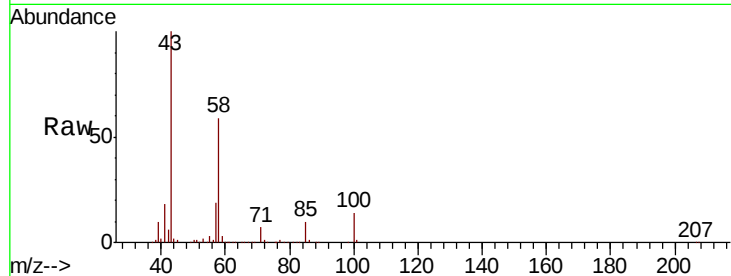




#59  
2-Hexanone  
Concen: 107.110 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

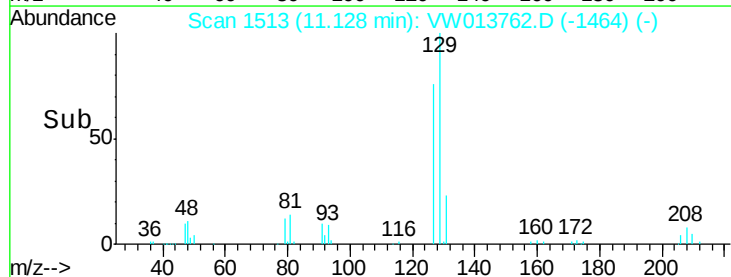
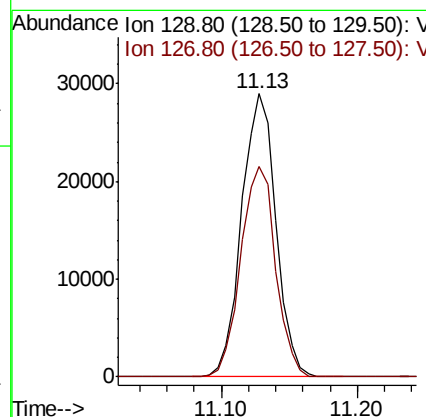
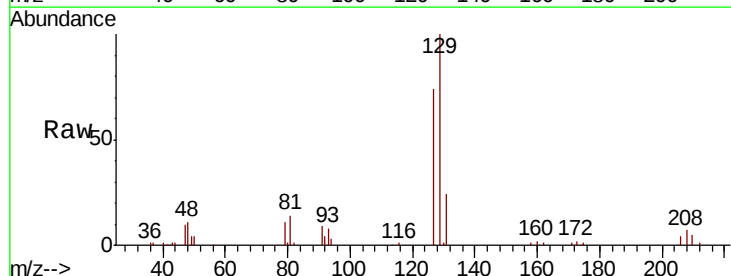
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

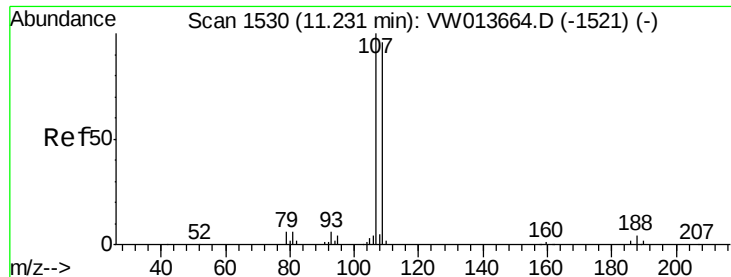
Tot Ion: 43 Resp: 113884  
Ion Ratio Lower Upper  
43 100  
58 56.6 27.9 83.7



#60  
Dibromochloromethane  
Concen: 20.717 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 129 Resp: 50944  
Ion Ratio Lower Upper  
129 100  
127 75.4 38.9 116.7

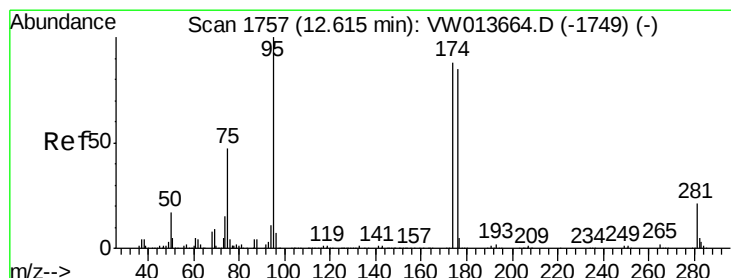
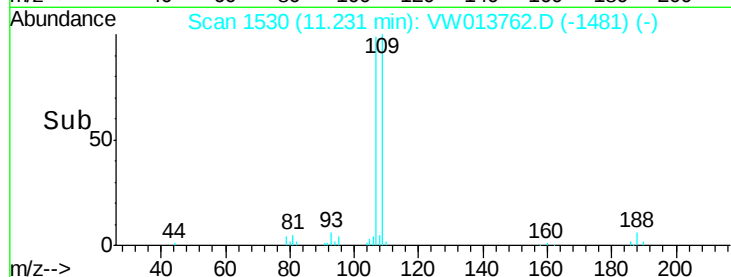
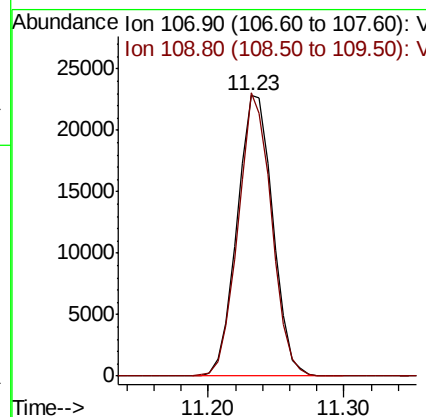
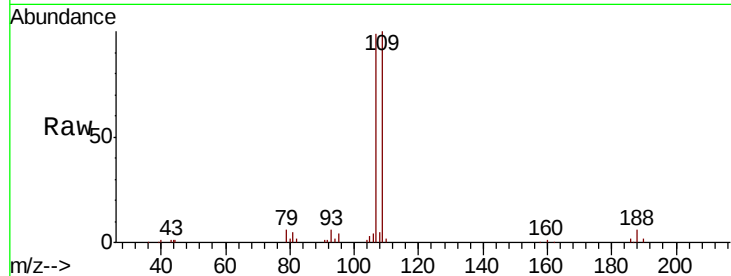




#61  
 1,2-Dibromoethane  
 Concen: 21.313 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

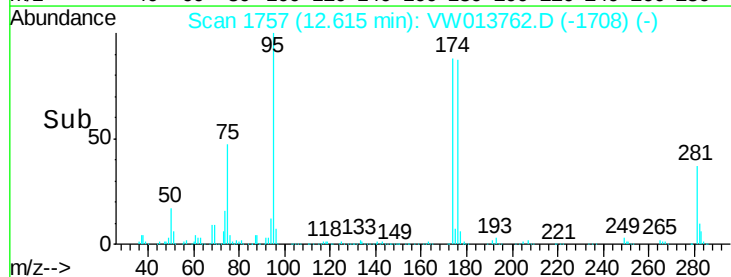
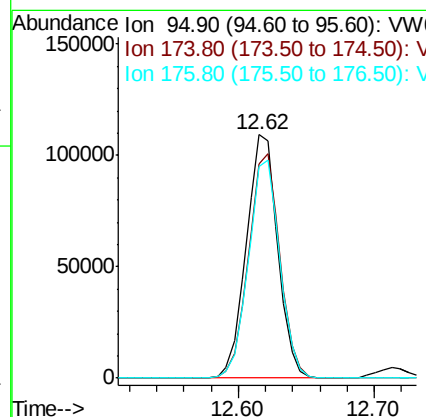
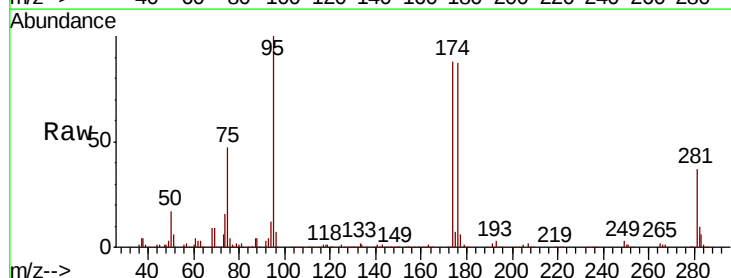
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

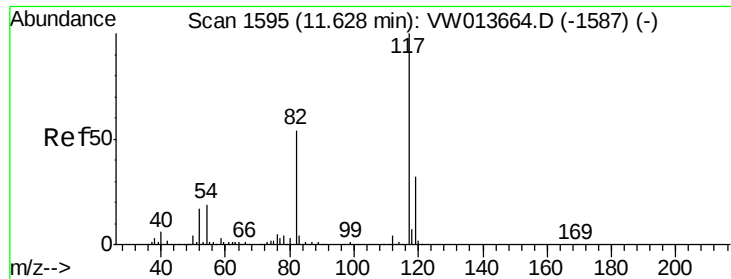
Tot Ion:107 Resp: 41761  
 Ion Ratio Lower Upper  
 107 100  
 109 94.6 75.7 113.5



#62  
 4-Bromofluorobenzene  
 Concen: 50.582 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

Tgt Ion: 95 Resp: 176374  
 Ion Ratio Lower Upper  
 95 100  
 174 92.0 0.0 183.6  
 176 89.7 0.0 178.0

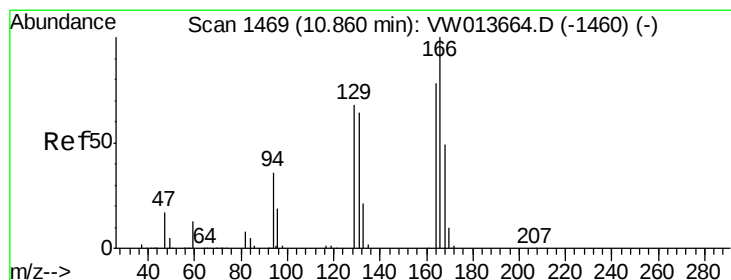
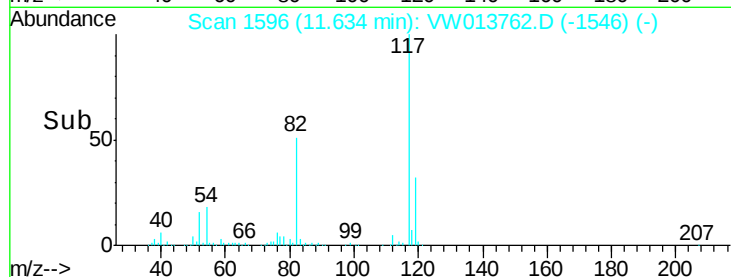
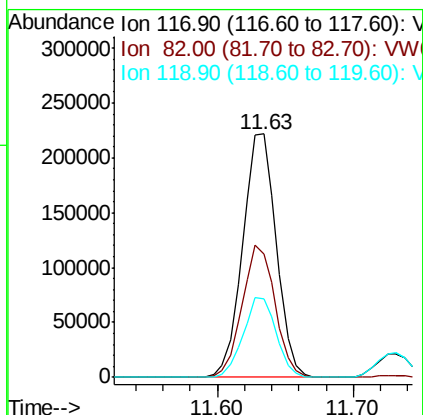
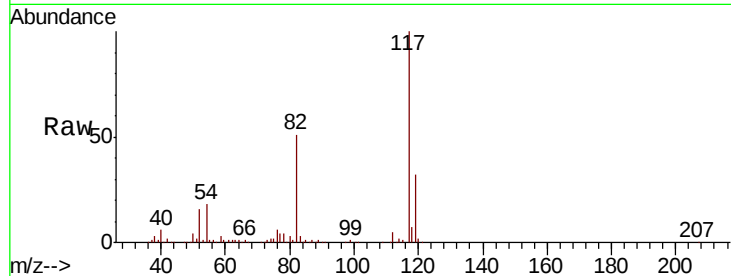




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

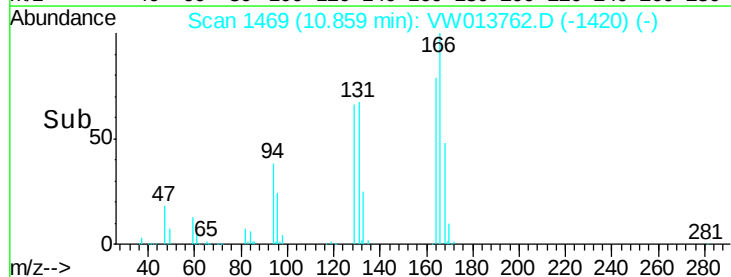
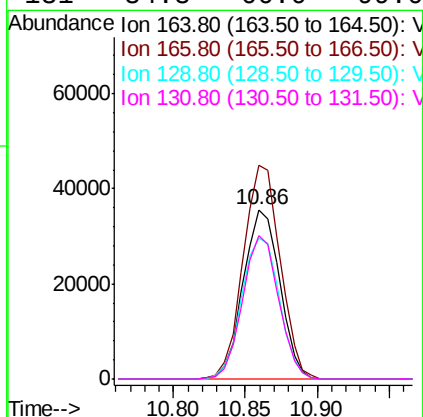
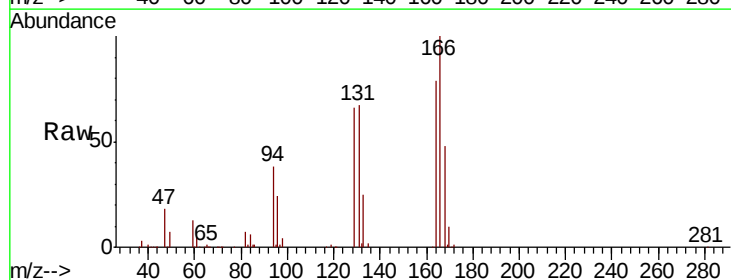
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

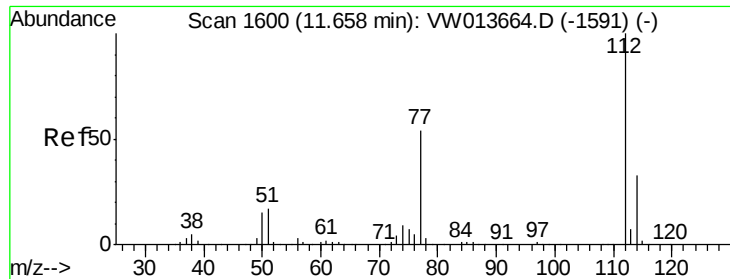
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.6  | 43.6  | 65.4  |
| 119     | 32.3  | 25.4  | 38.2  |



#64  
Tetrachloroethene  
Concen: 21.384 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.2 | 103.2 | 154.8 |
| 129     | 83.6  | 70.6  | 105.8 |
| 131     | 84.8  | 66.0  | 99.0  |

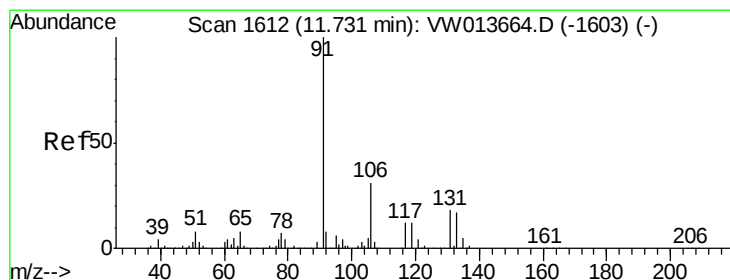
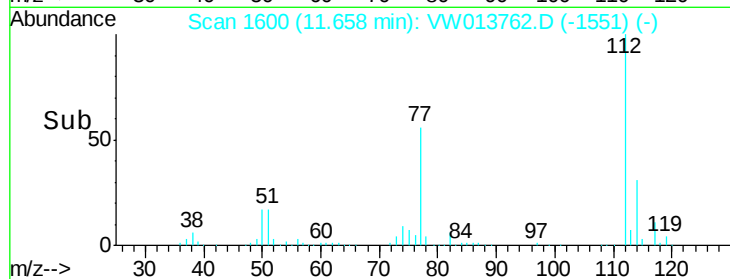
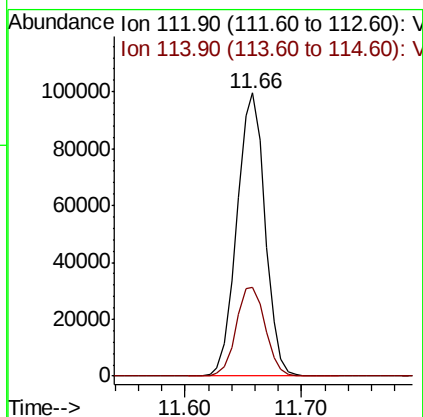
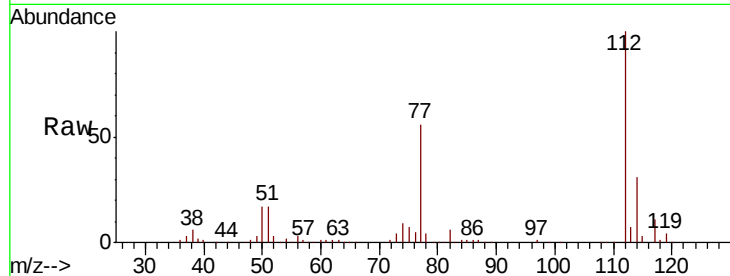




#65  
Chlorobenzene  
Concen: 21.318 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

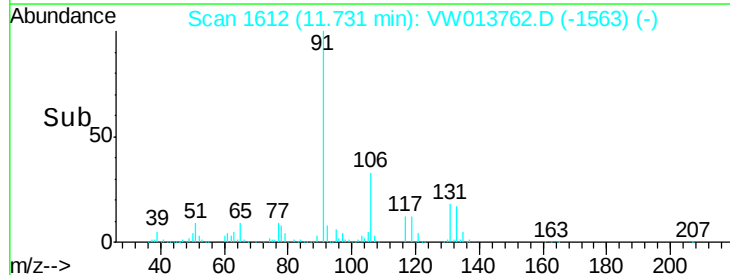
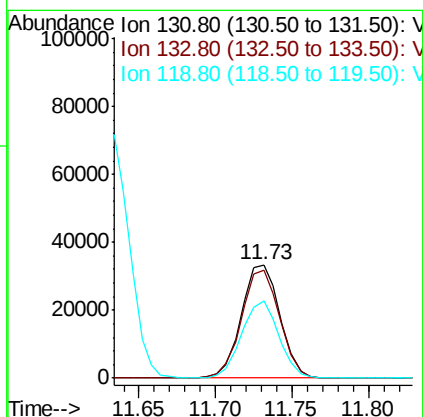
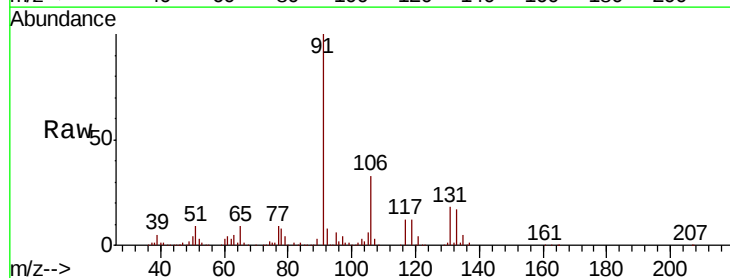
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

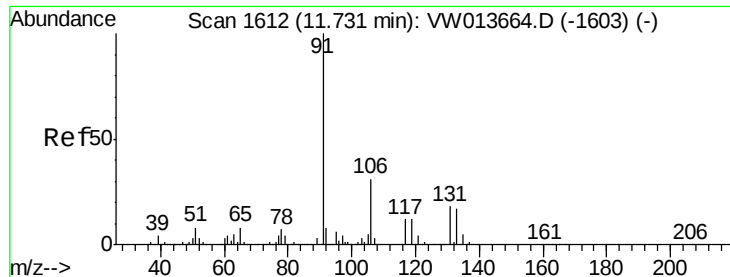
Tot Ion:112 Resp: 167693  
Ion Ratio Lower Upper  
112 100  
114 31.3 26.2 39.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 21.217 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion:131 Resp: 58248  
Ion Ratio Lower Upper  
131 100  
133 94.8 47.4 142.3  
119 66.3 33.1 99.2

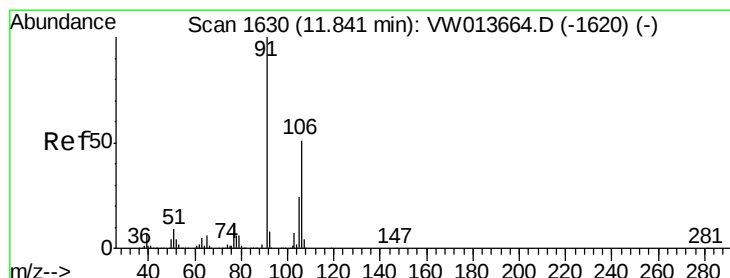
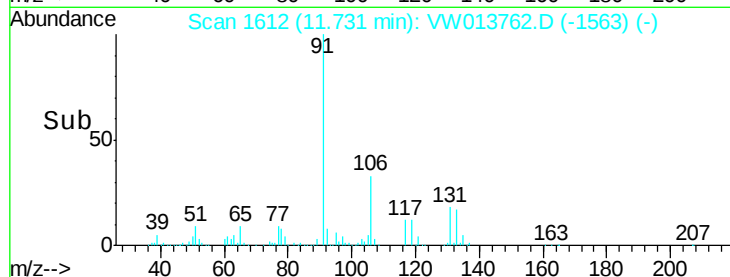
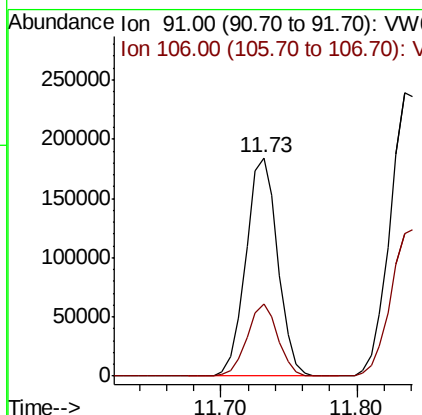
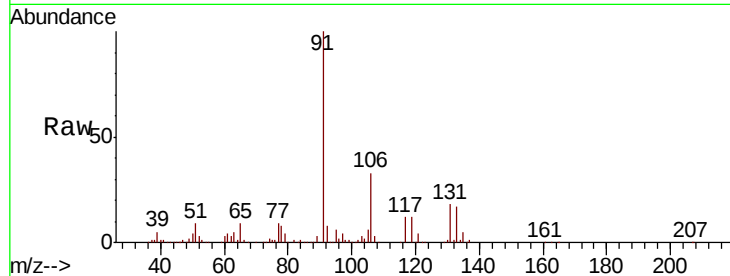




#67  
Ethyl Benzene  
Concen: 21.282 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

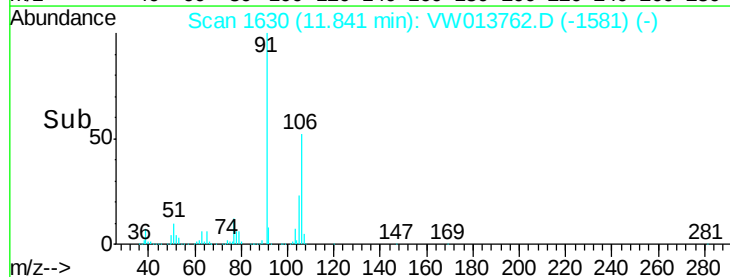
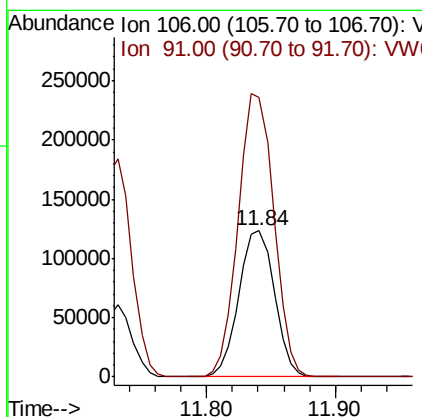
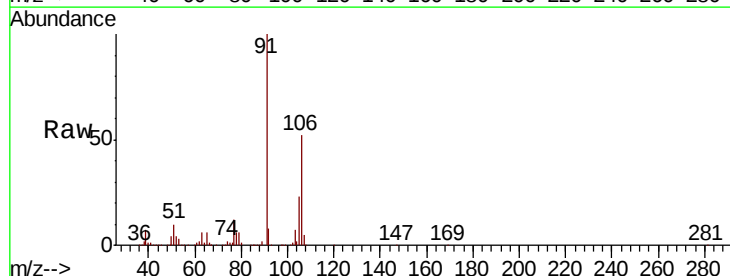
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBS01

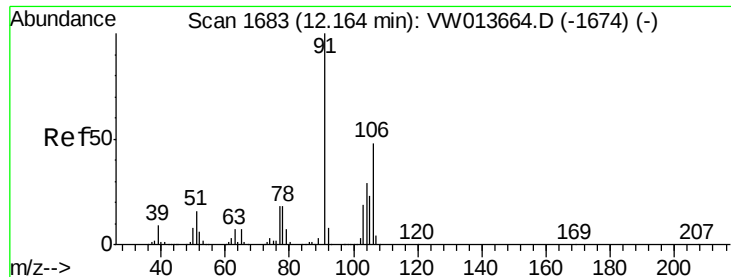
Tot Ion: 91 Resp: 301869  
Ion Ratio Lower Upper  
91 100  
106 32.8 25.0 37.6



#68  
m/p-Xylenes  
Concen: 43.122 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 106 Resp: 236316  
Ion Ratio Lower Upper  
106 100  
91 194.7 159.2 238.8

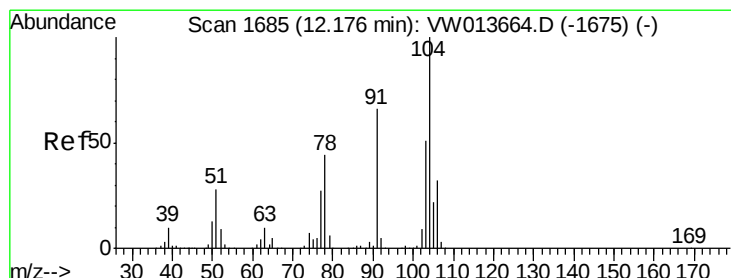
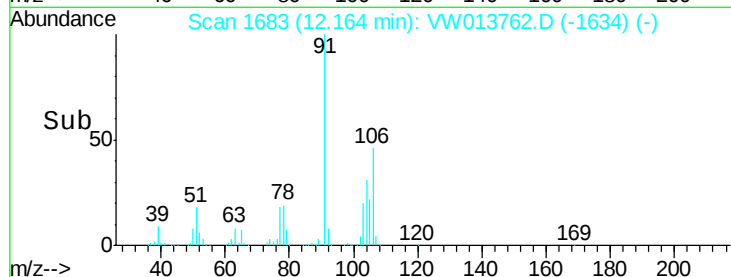
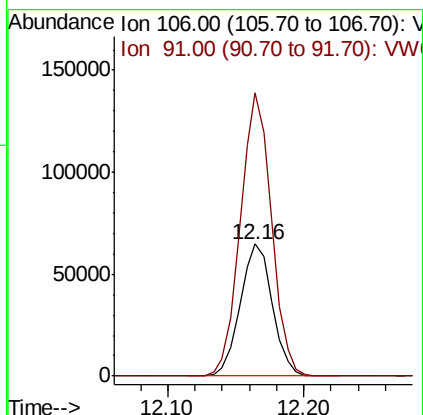
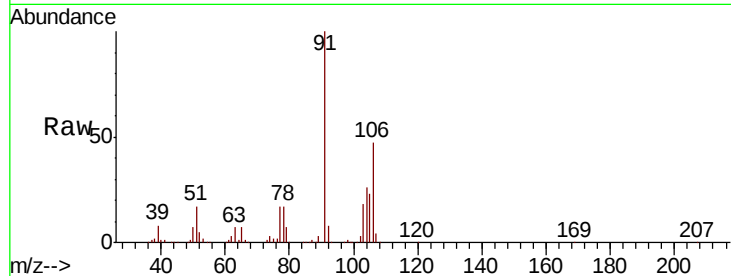




#69  
o-Xylene  
Concen: 21.152 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

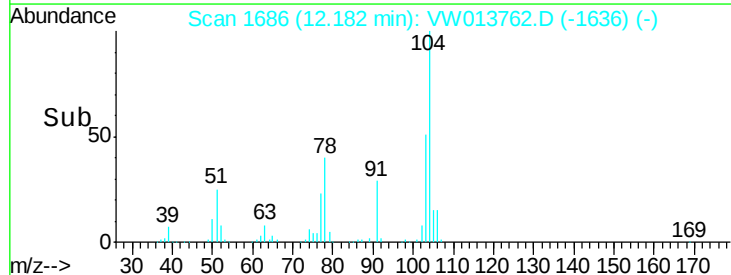
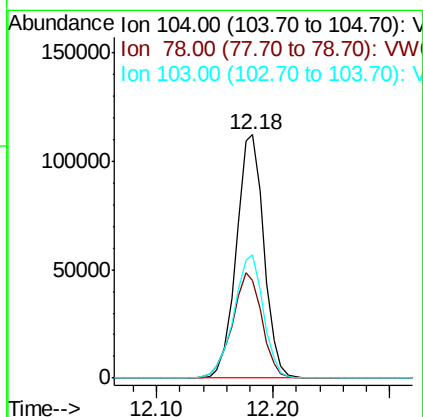
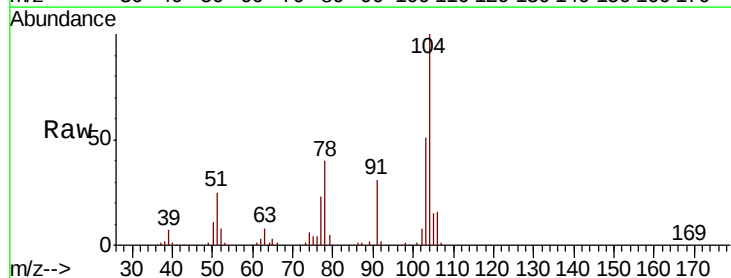
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

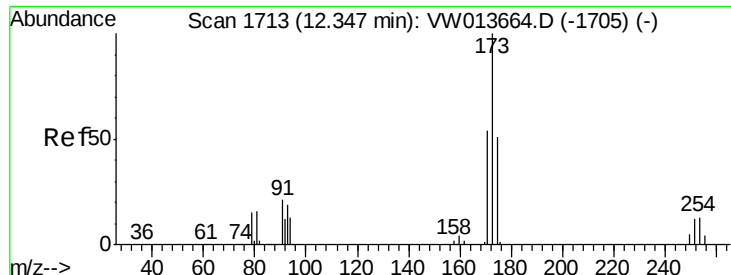
Tot Ion:106 Resp: 106549  
Ion Ratio Lower Upper  
106 100  
91 208.0 104.9 314.7



#70  
Styrene  
Concen: 21.357 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion:104 Resp: 184834  
Ion Ratio Lower Upper  
104 100  
78 46.6 37.1 55.7  
103 54.4 43.6 65.4





#71

Bromoform

Concen: 21.285 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBSD01

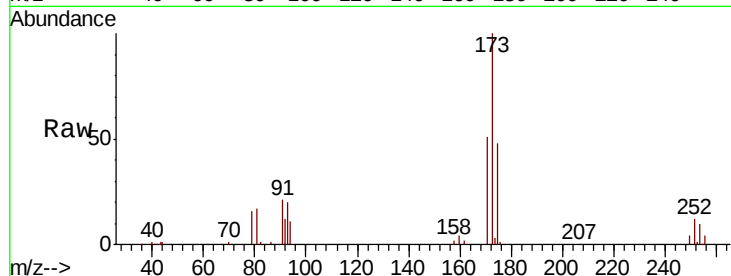
Tot Ion:173 Resp: 30665

Ion Ratio Lower Upper

173 100

175 48.1 25.2 75.6

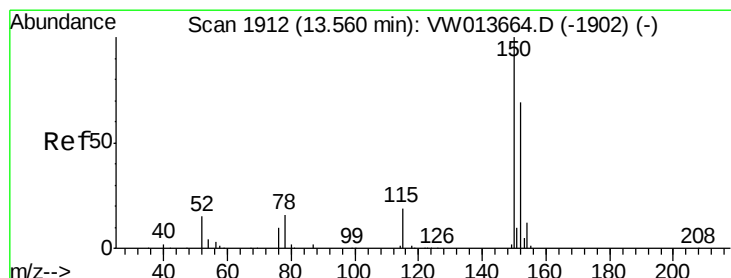
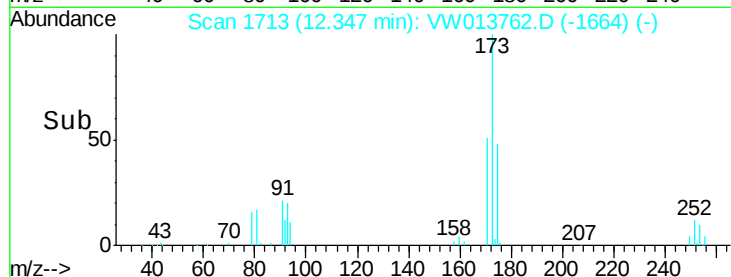
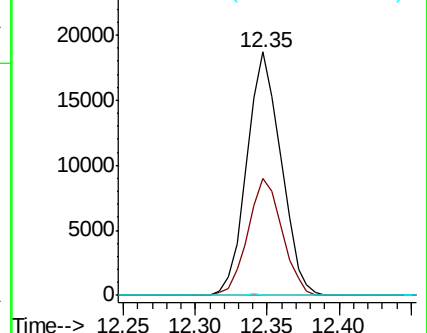
254 0.3 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

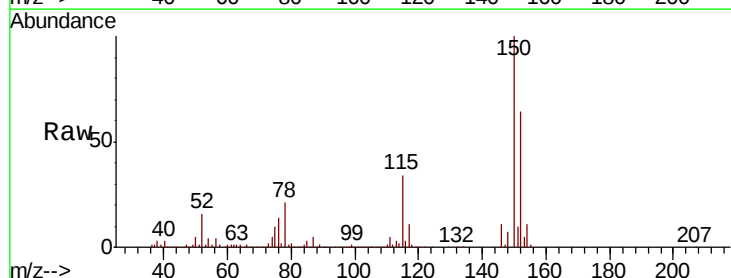
Tgt Ion:152 Resp: 198778

Ion Ratio Lower Upper

152 100

115 54.1 27.4 82.2

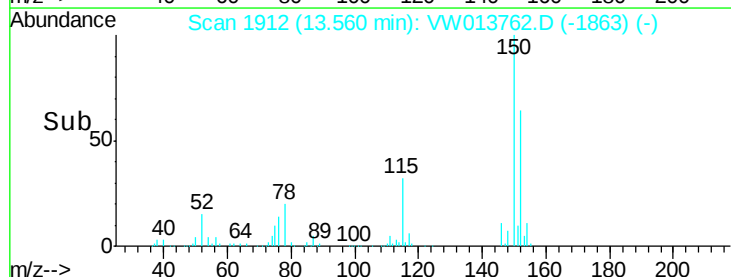
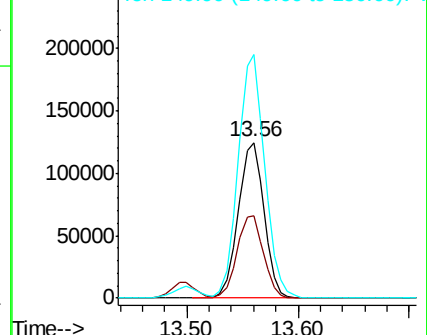
150 162.0 0.0 345.4

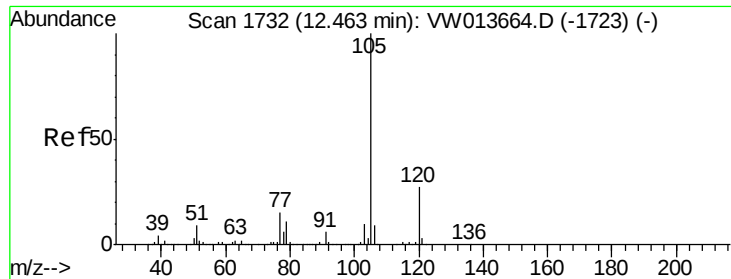


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

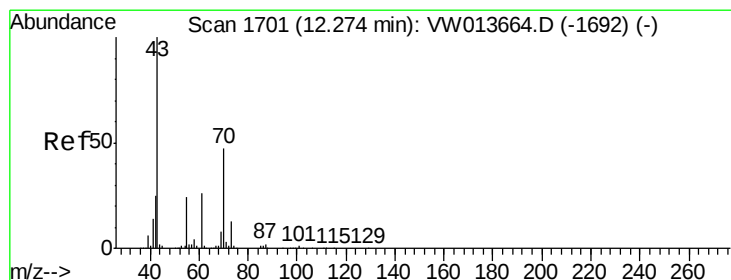
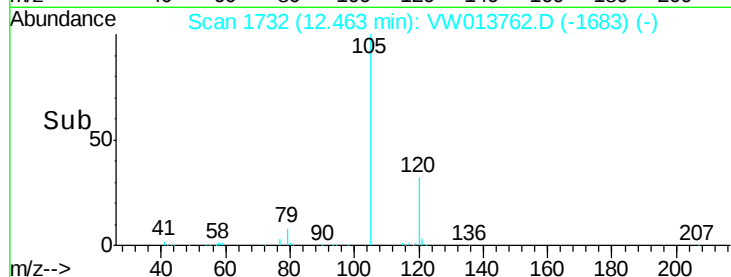
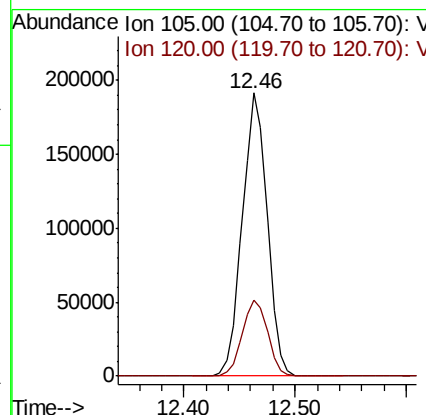
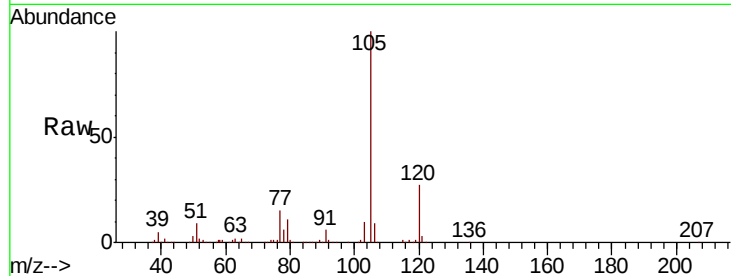




#73  
Isopropylbenzene  
Concen: 20.757 ug/l  
RT: 12.46 min Scan# 1732  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

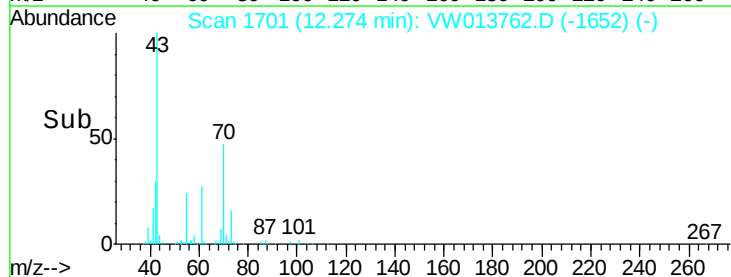
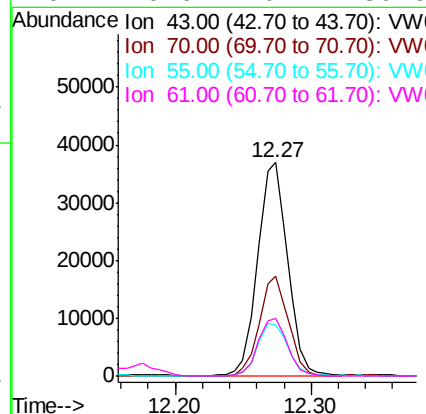
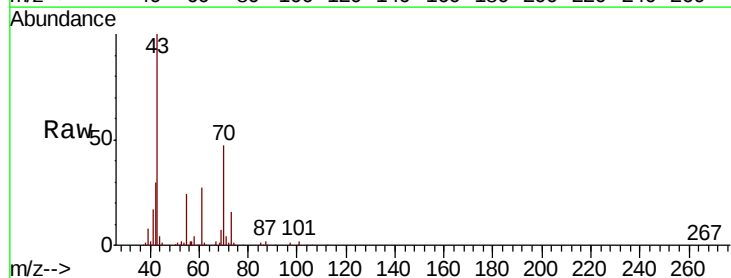
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

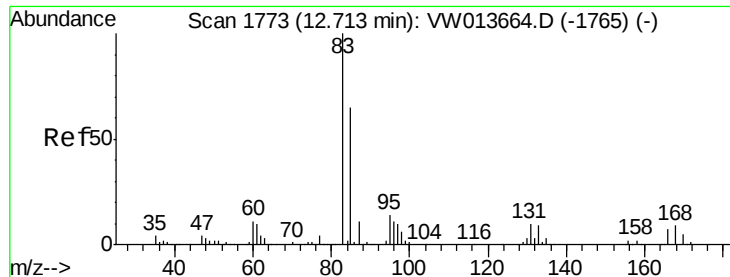
Tot Ion:105 Resp: 296303  
Ion Ratio Lower Upper  
105 100  
120 27.2 13.5 40.4



#74  
N-ethyl acetate  
Concen: 20.748 ug/l  
RT: 12.27 min Scan# 1701  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 43 Resp: 57292  
Ion Ratio Lower Upper  
43 100  
70 45.4 36.6 55.0  
55 25.6 20.3 30.5  
61 26.6 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.440 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBSD01

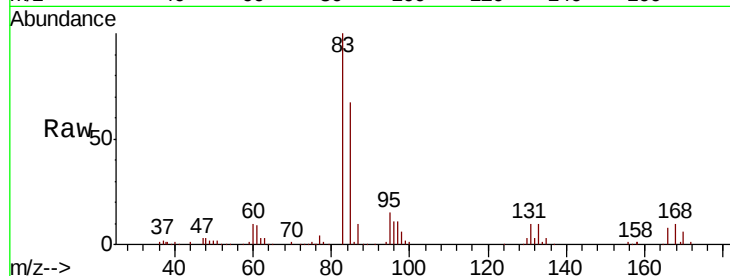
Tot Ion: 83 Resp: 48296

Ion Ratio Lower Upper

83 100

131 11.6 5.7 17.1

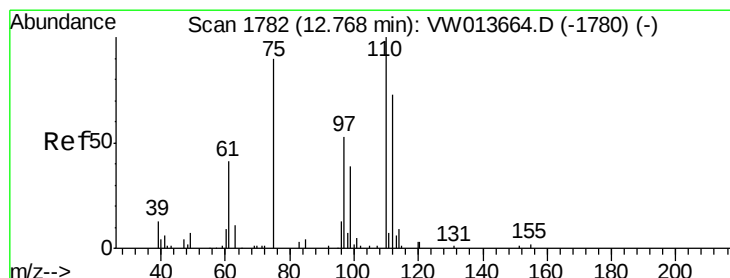
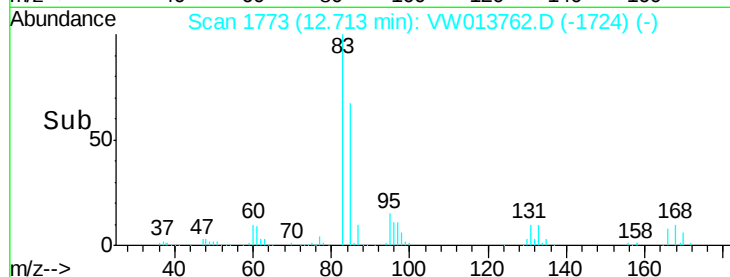
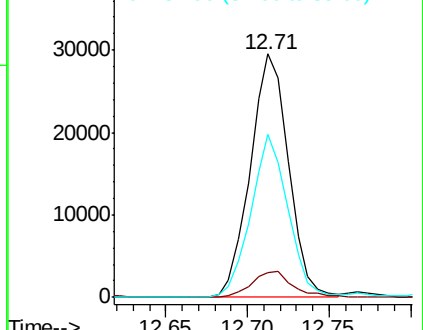
85 64.5 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 43.780 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013762.D

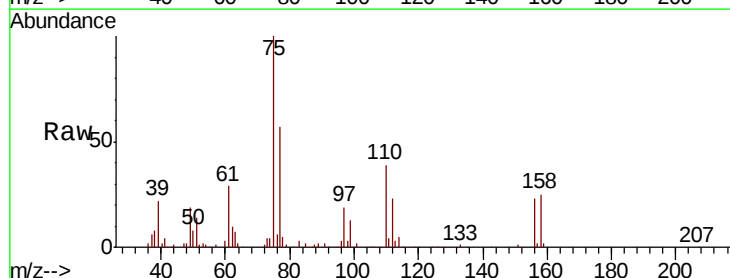
Acq: 28 Oct 2019 13:21

Tgt Ion: 75 Resp: 62496

Ion Ratio Lower Upper

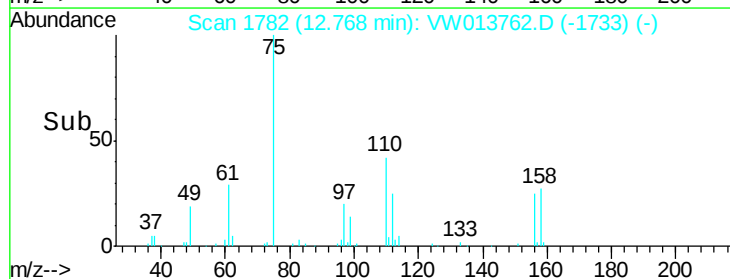
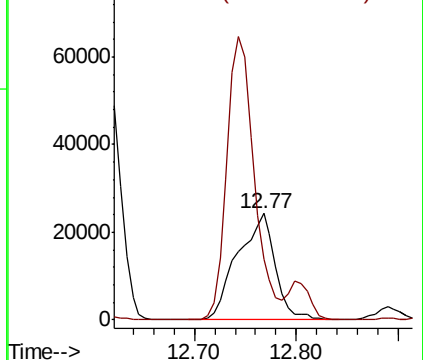
75 100

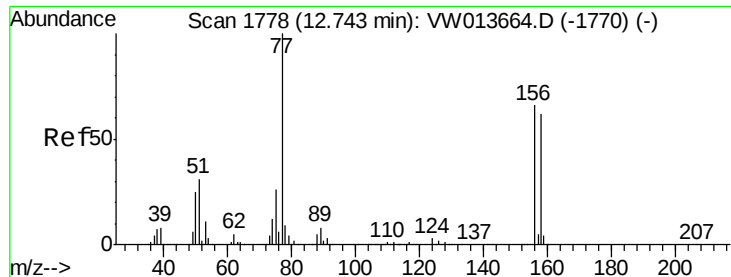
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.854 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBS01

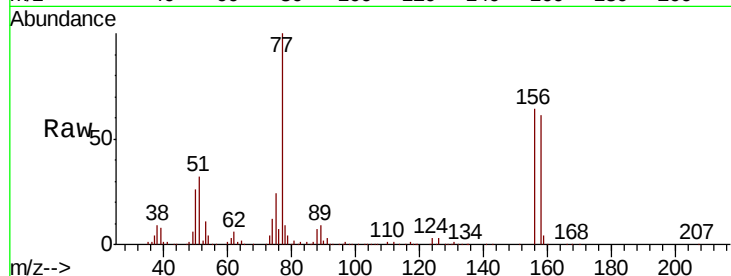
Tot Ion:156 Resp: 71113

Ion Ratio Lower Upper

156 100

77 169.7 82.9 248.7

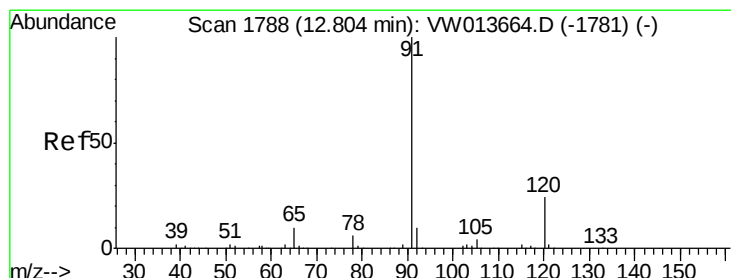
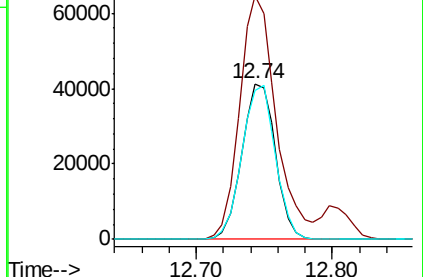
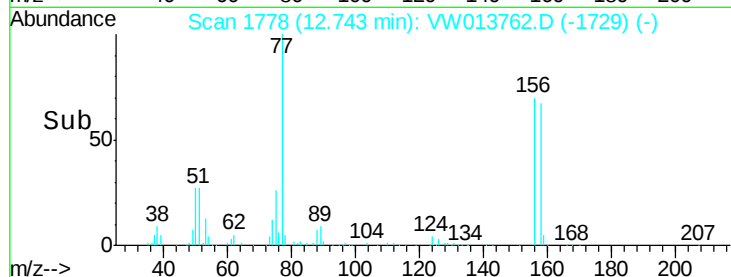
158 98.9 48.4 145.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.177 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013762.D

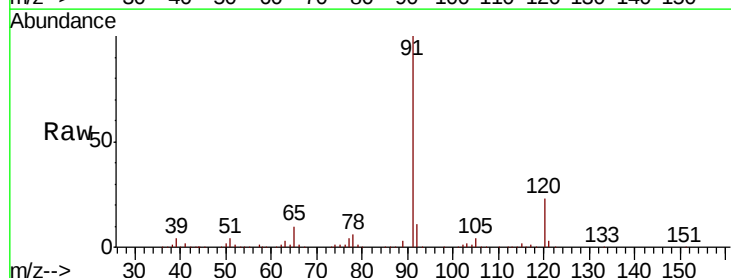
Acq: 28 Oct 2019 13:21

Tgt Ion: 91 Resp: 349899

Ion Ratio Lower Upper

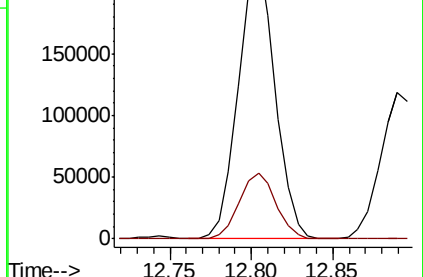
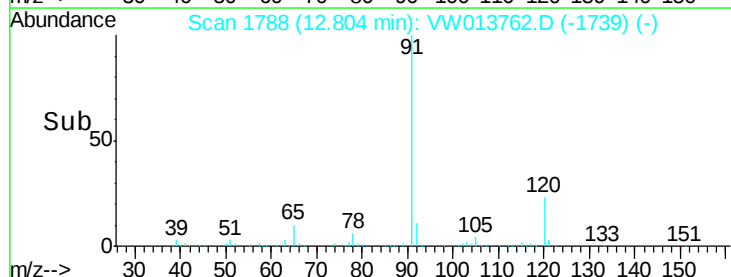
91 100

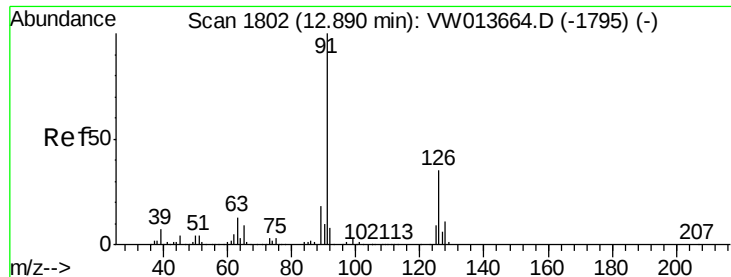
120 23.9 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.873 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

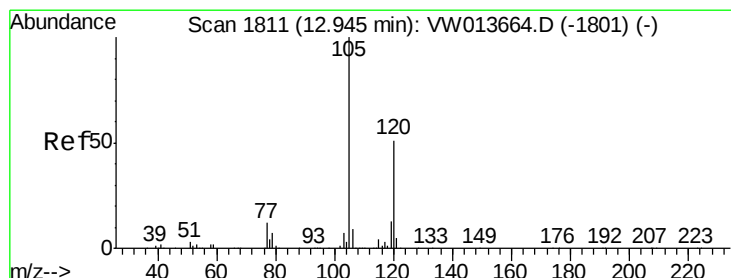
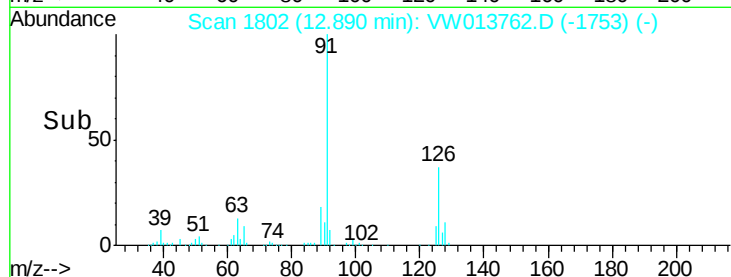
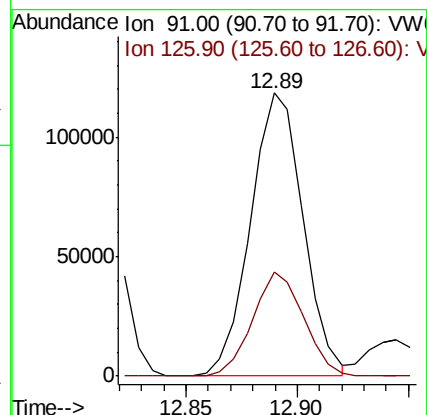
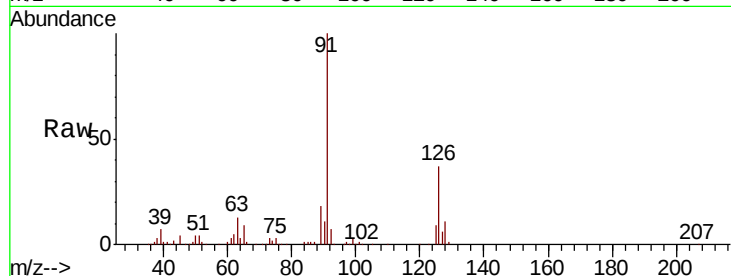
VW1028SBSD01

Tot Ion: 91 Resp: 193806

Ion Ratio Lower Upper

91 100

126 36.0 17.4 52.2



#80

1,3,5-Trimethylbenzene

Concen: 21.283 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013762.D

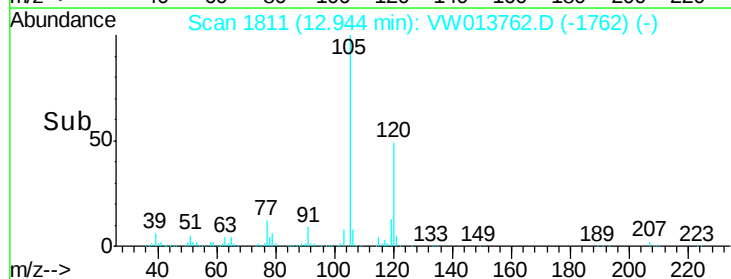
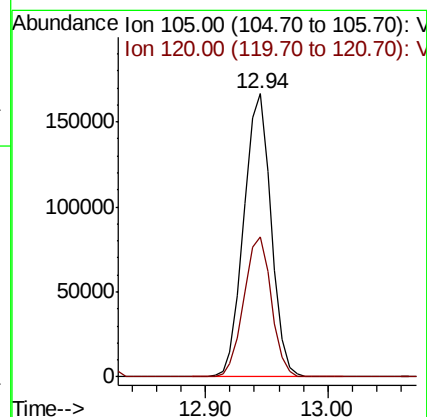
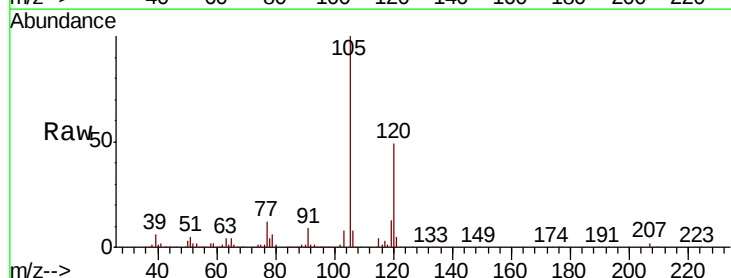
Acq: 28 Oct 2019 13:21

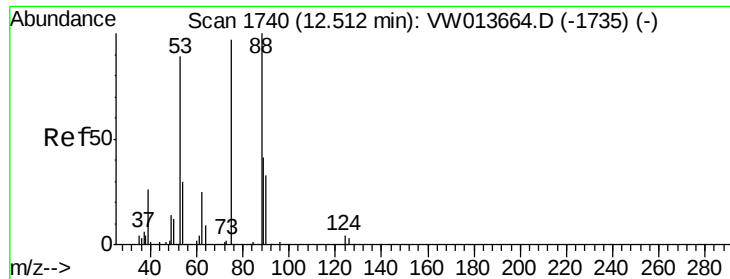
Tgt Ion:105 Resp: 256465

Ion Ratio Lower Upper

105 100

120 50.0 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 21.798 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBSD01

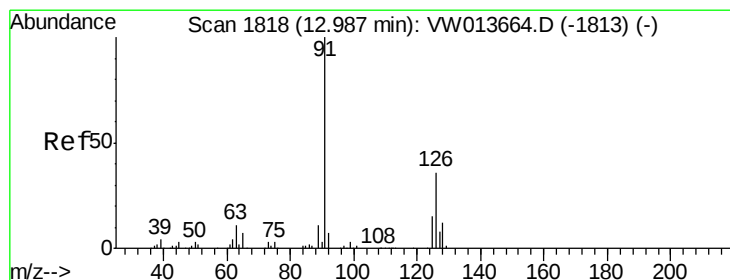
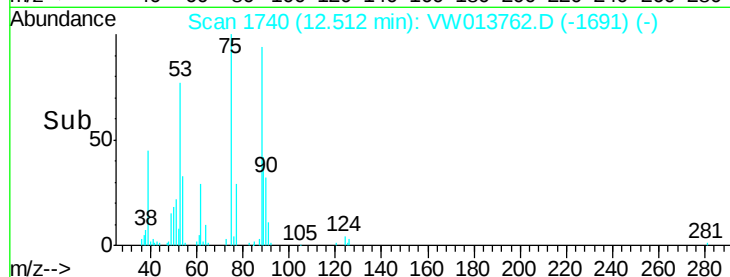
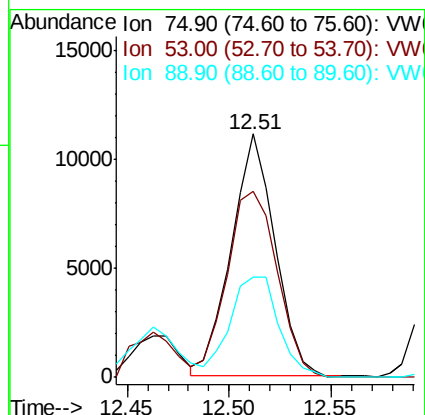
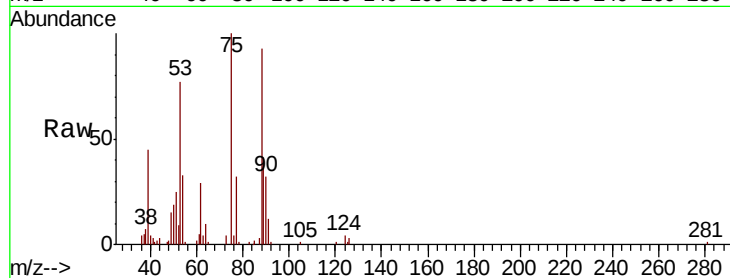
Tot Ion: 75 Resp: 16465

Ion Ratio Lower Upper

75 100

53 89.0 71.7 107.5

89 46.3 35.8 53.8



#82

4-Chlorotoluene

Concen: 21.093 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW013762.D

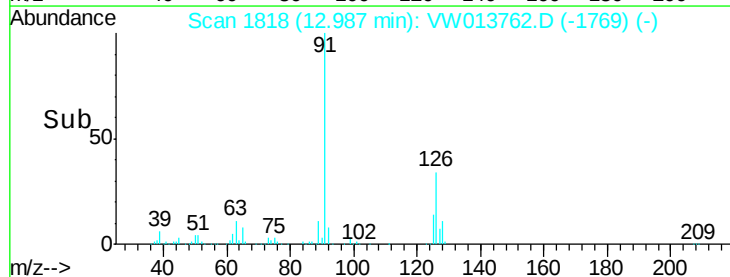
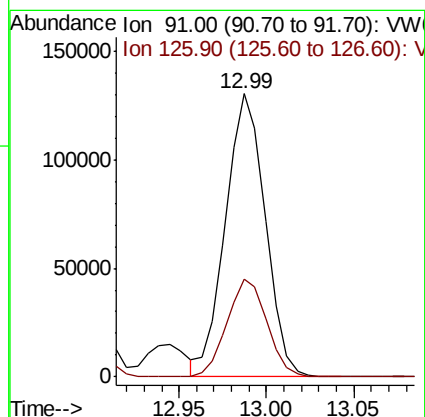
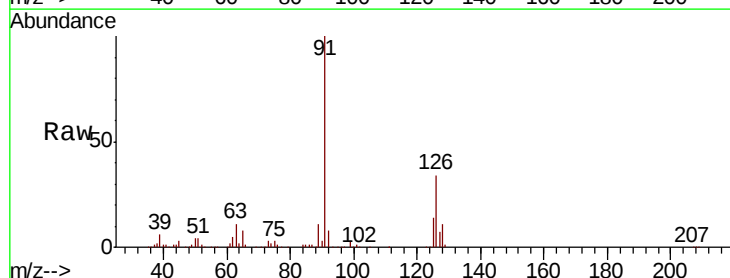
Acq: 28 Oct 2019 13:21

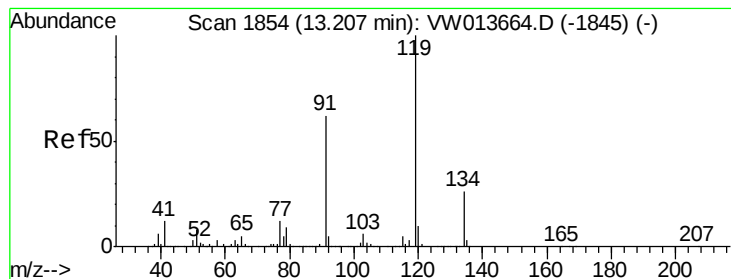
Tgt Ion: 91 Resp: 205612

Ion Ratio Lower Upper

91 100

126 34.7 17.2 51.5





#83

tert-Butylbenzene

Concen: 20.716 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

VW1028SBSD01

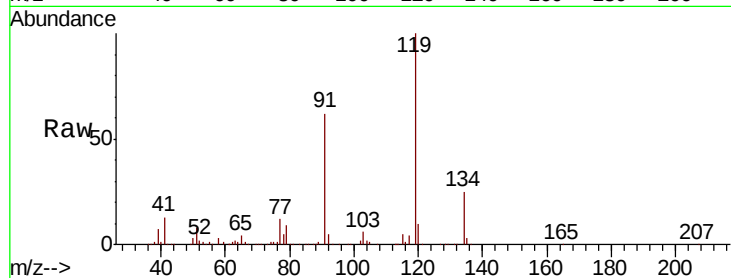
Tot Ion:119 Resp: 221584

Ion Ratio Lower Upper

119 100

91 60.5 30.4 91.3

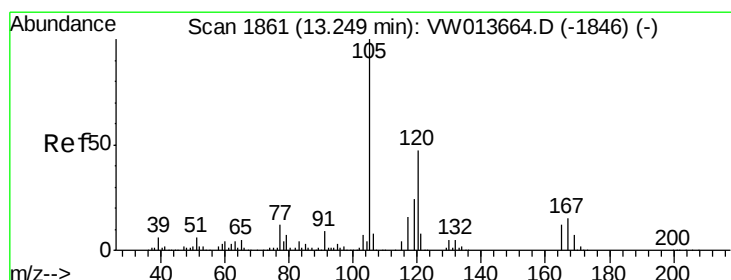
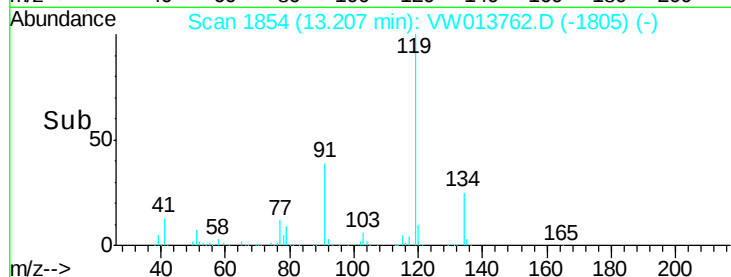
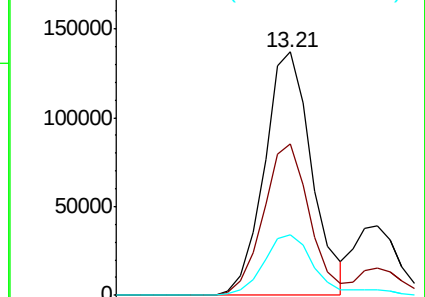
134 27.7 13.6 40.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.123 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013762.D

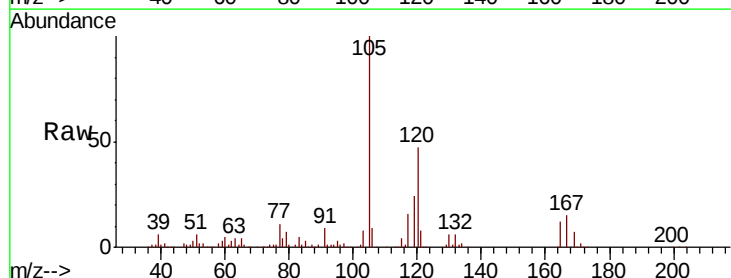
Acq: 28 Oct 2019 13:21

Tgt Ion:105 Resp: 251088

Ion Ratio Lower Upper

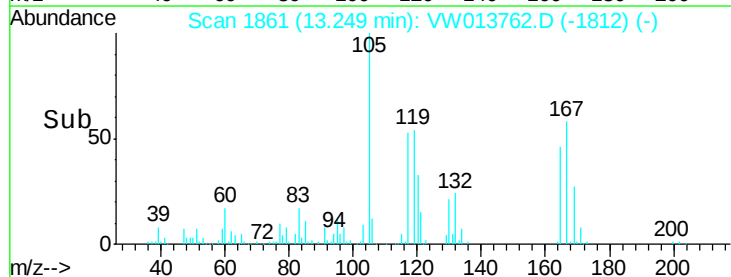
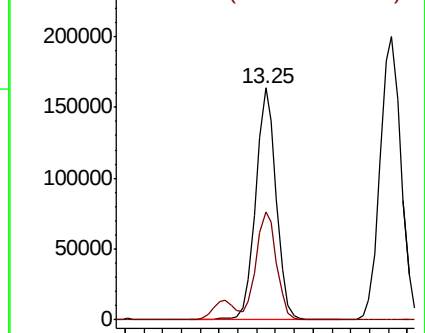
105 100

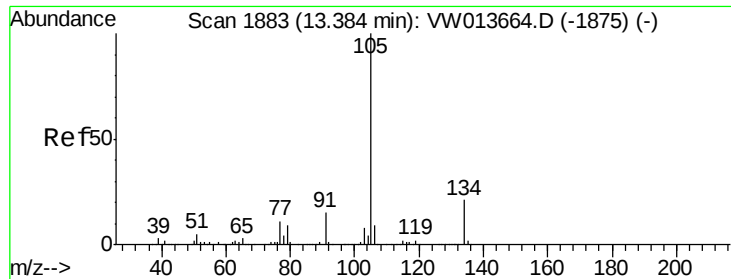
120 46.5 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.057 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :

MSVOA\_W

ClientSampleId :

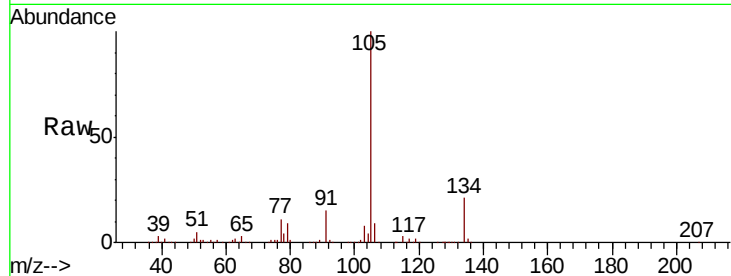
VW1028SBSD01

Tot Ion:105 Resp: 307995

Ion Ratio Lower Upper

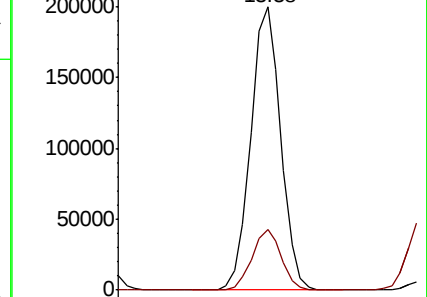
105 100

134 21.0 10.5 31.5

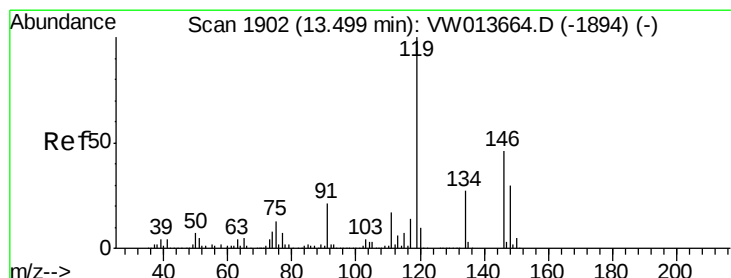
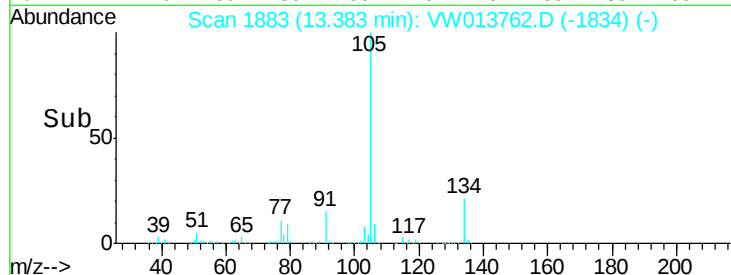


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 21.090 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

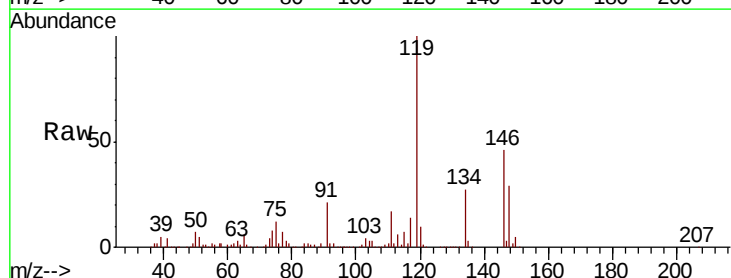
Tgt Ion:119 Resp: 287360

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.1

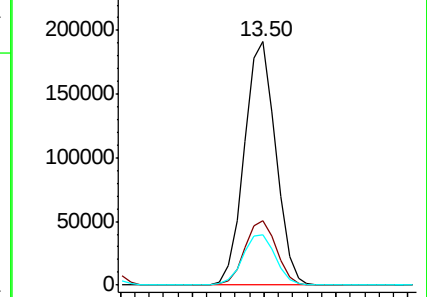
91 21.8 10.8 32.3



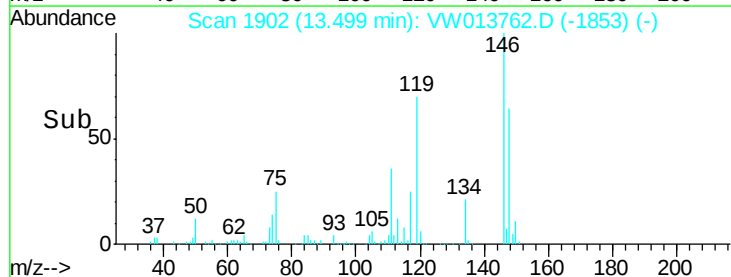
Abundance Ion 119.00 (118.70 to 119.70): V

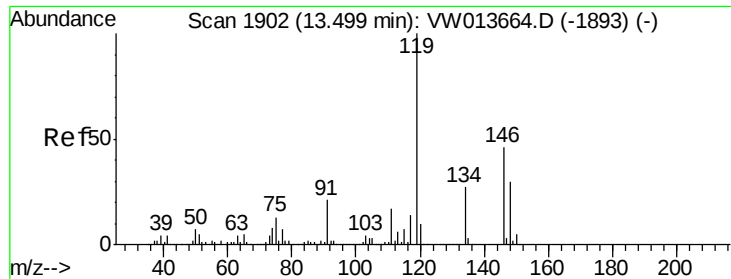
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VW



Time-->





#87

1,3-Dichlorobenzene

Concen: 21.203 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

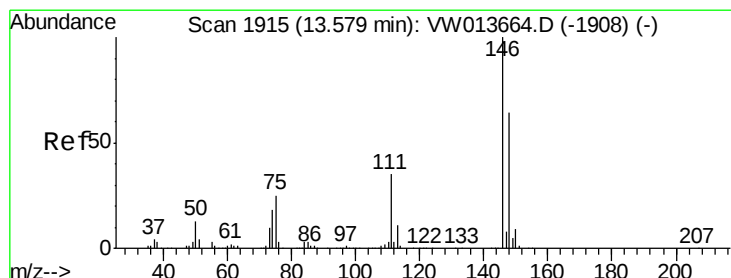
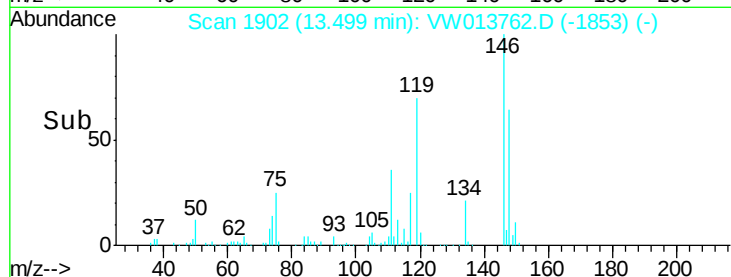
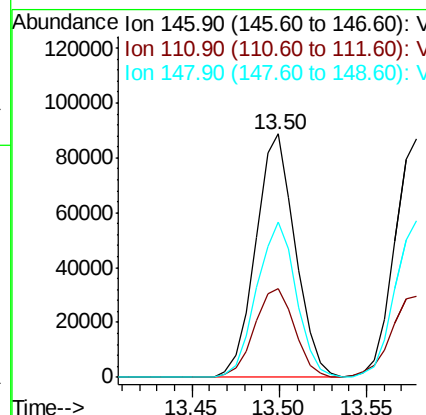
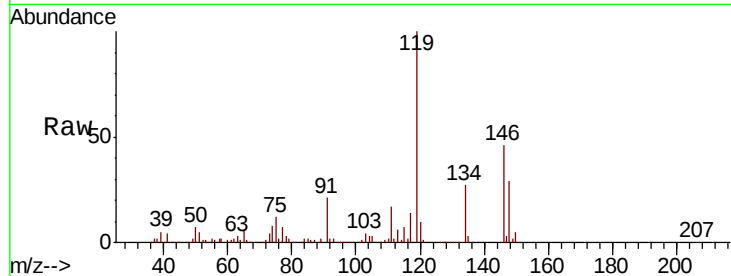
Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBS01

Tot Ion:146 Resp: 140091

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 37.3  | 18.6  | 56.0  |
| 148 | 63.8  | 31.7  | 95.1  |



#88

1,4-Dichlorobenzene

Concen: 20.940 ug/l

RT: 13.58 min Scan# 1915

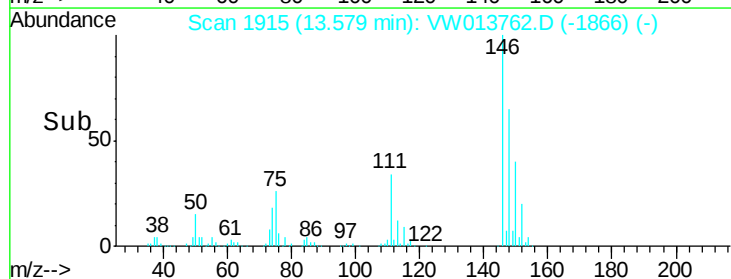
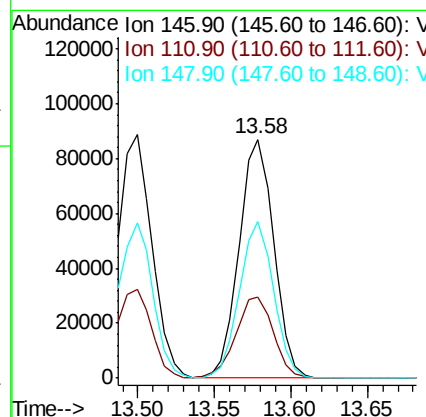
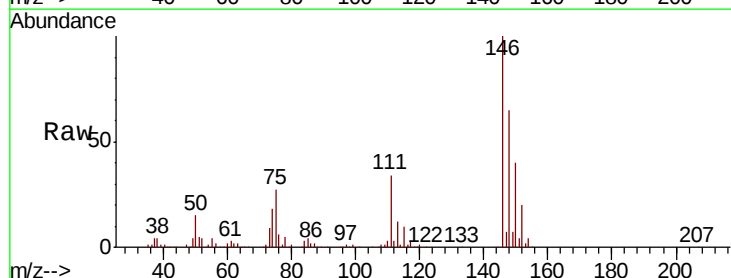
Delta R.T. -0.00 min

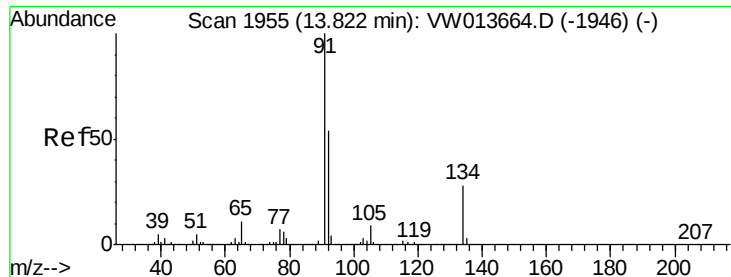
Lab File: VW013762.D

Acq: 28 Oct 2019 13:21

Tgt Ion:146 Resp: 137450

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 36.6  | 18.1  | 54.3  |
| 148 | 64.8  | 32.0  | 96.2  |

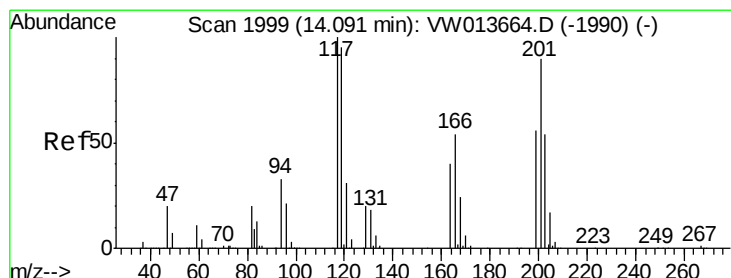
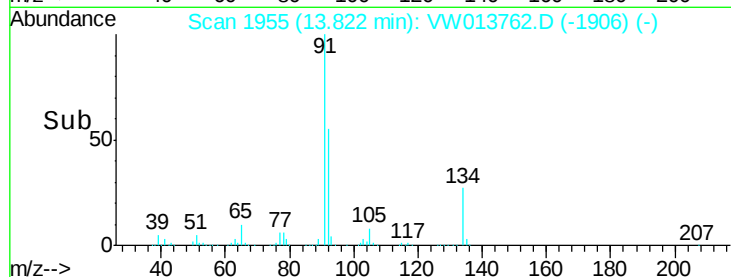
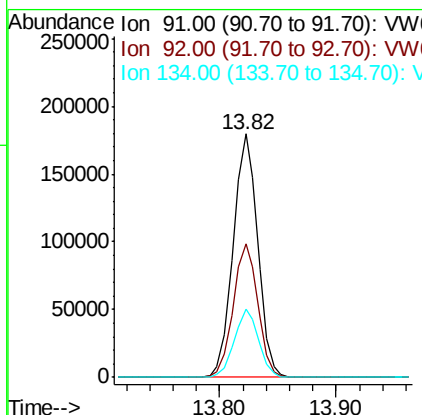
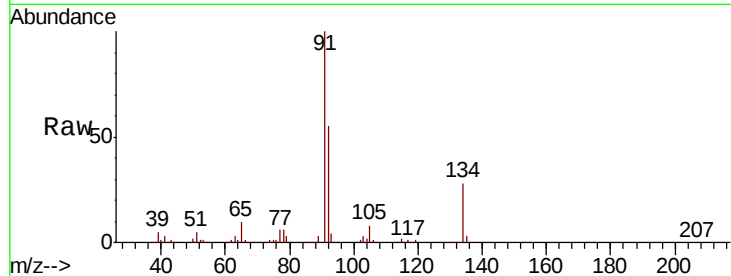




#89  
n-Butylbenzene  
Concen: 21.410 ug/l  
RT: 13.82 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

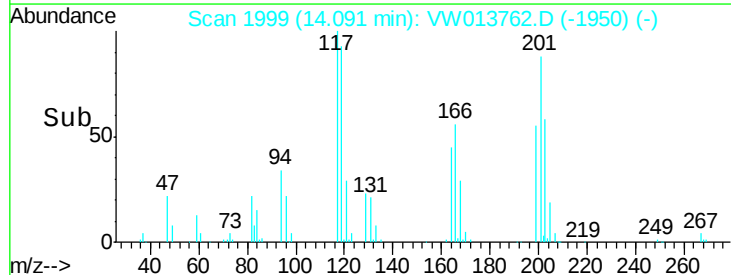
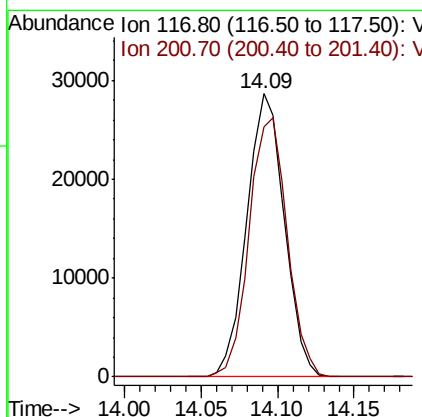
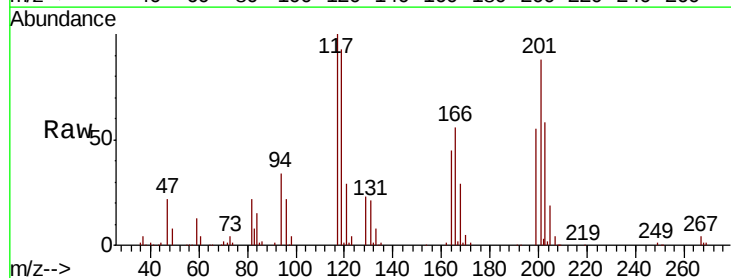
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBS01

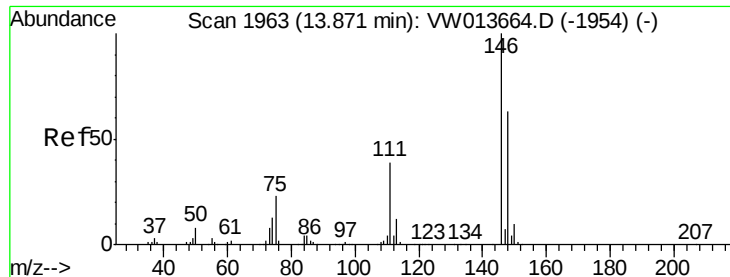
Tot Ion: 91 Resp: 263306  
Ion Ratio Lower Upper  
91 100  
92 54.9 27.5 82.4  
134 27.7 14.0 41.9



#90  
Hexachloroethane  
Concen: 20.703 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion: 117 Resp: 49031  
Ion Ratio Lower Upper  
117 100  
201 92.7 46.1 138.2

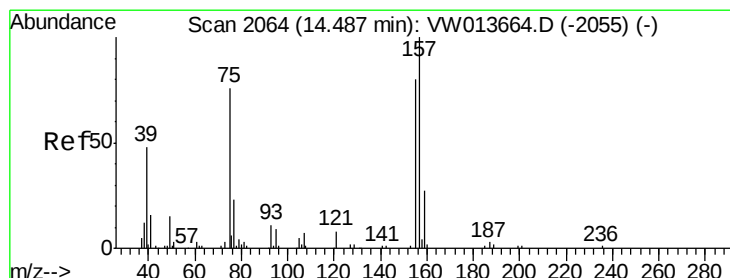
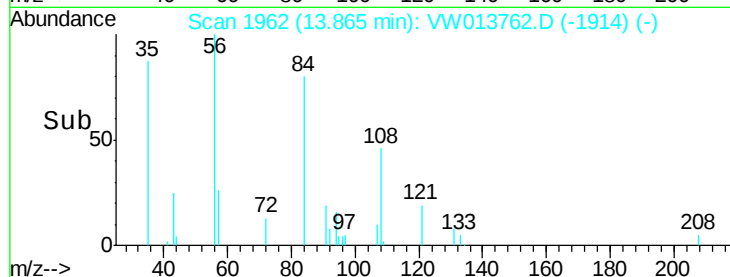
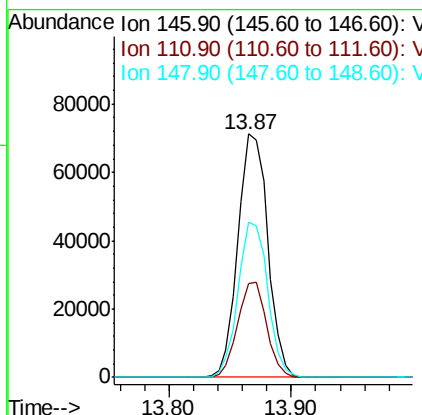
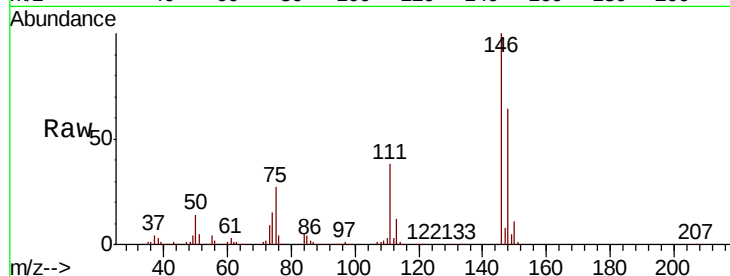




#91  
 1,2-Dichlorobenzene  
 Concen: 21.061 ug/l  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.01 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

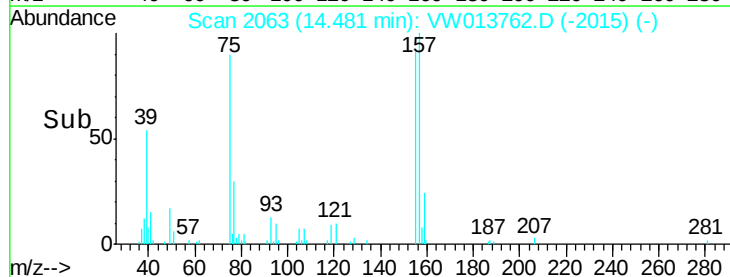
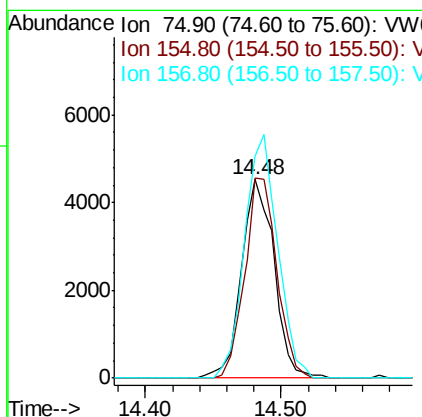
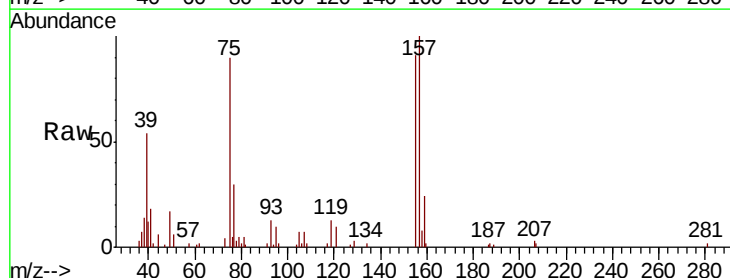
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

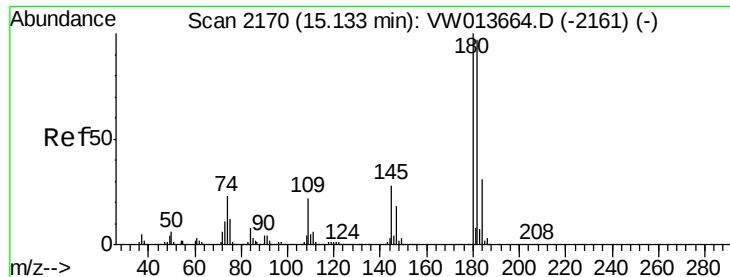
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 19.9  | 59.6  |
| 148     | 63.2  | 31.9  | 95.9  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 22.361 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 98.8  | 51.9  | 155.7 |
| 157     | 124.0 | 64.8  | 194.3 |

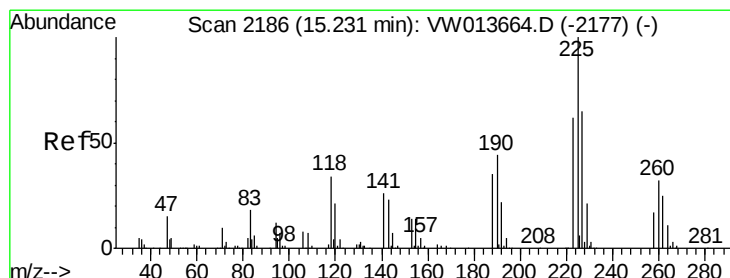
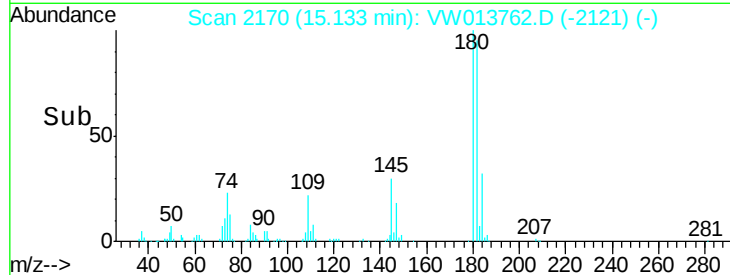
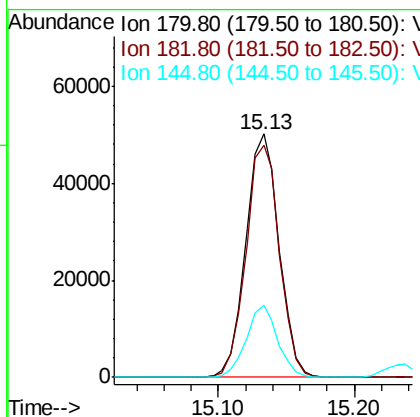
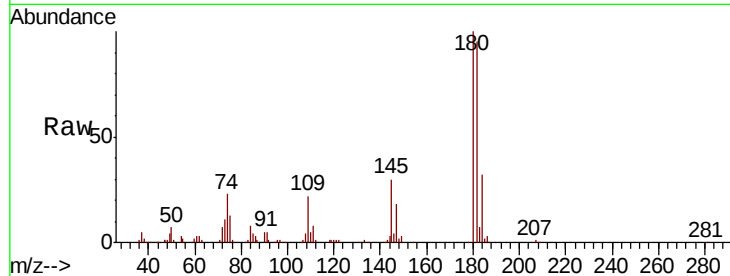




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.590 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

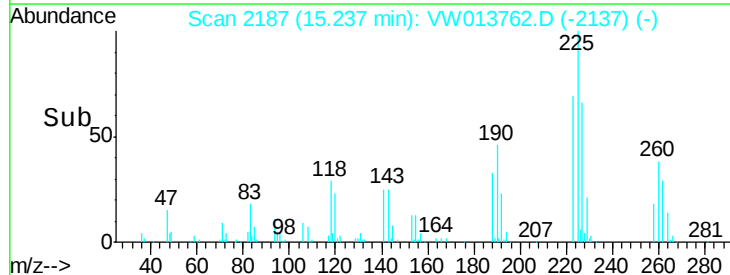
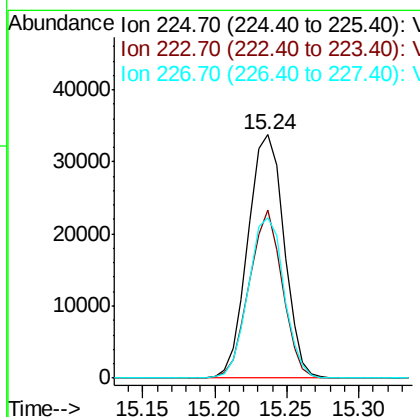
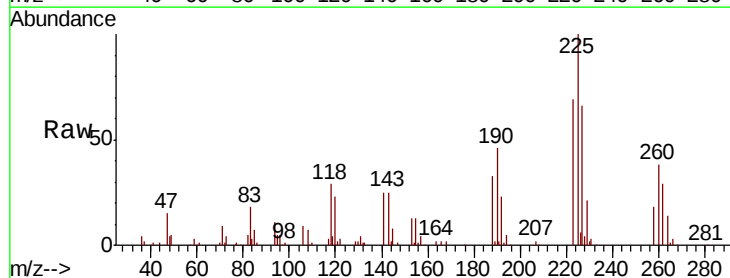
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1028SBSD01

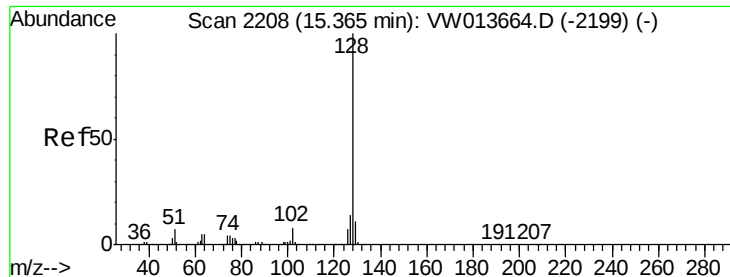
Tot Ion:180 Resp: 85843  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 47.4 142.2  
 145 27.8 14.1 42.3



#94  
 Hexachlorobutadiene  
 Concen: 20.869 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. 0.01 min  
 Lab File: VW013762.D  
 Acq: 28 Oct 2019 13:21

Tgt Ion:225 Resp: 58737  
 Ion Ratio Lower Upper  
 225 100  
 223 63.4 31.9 95.9  
 227 65.0 32.5 97.4

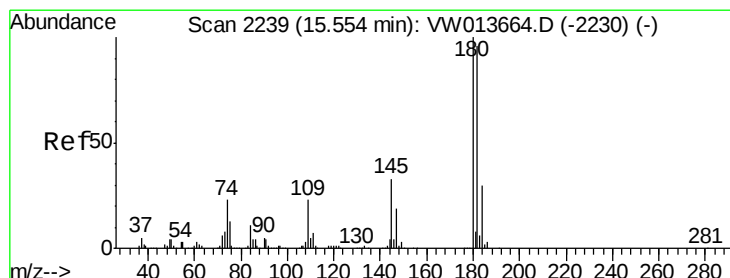
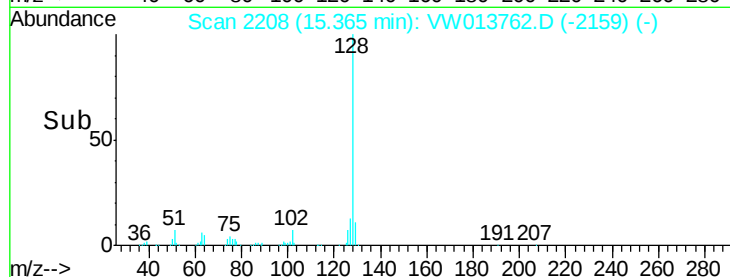
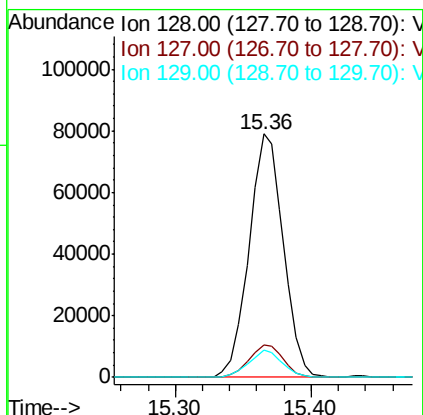
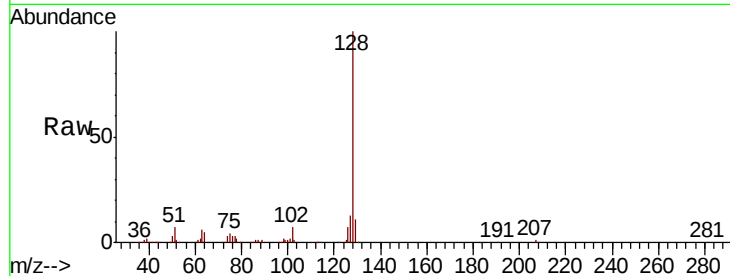




#95  
Naphthalene  
Concen: 21.306 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1028SBSD01

Tot Ion:128 Resp: 139274  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 15.8  
129 10.8 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 20.970 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VW013762.D  
Acq: 28 Oct 2019 13:21

Tgt Ion:180 Resp: 75335  
Ion Ratio Lower Upper  
180 100  
182 94.9 47.4 142.3  
145 29.8 14.9 44.9

