

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080319\  
 Data File : VW011636.D  
 Acq On : 02 Aug 2019 23:32  
 Operator : SY/VA  
 Sample : VW0803SBS01  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

Quant Time: Aug 04 00:05:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 217629   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 375242   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 335250   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 160860   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 147658   | 59.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 118.18% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 114721   | 54.49 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.98% |      |
| 50) Toluene-d8              | 10.32  | 98  | 462985   | 53.72 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.44% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 166236   | 54.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.20% |      |

| Target Compounds              |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 27590  | 22.748  | ug/l | 93     |
| 3) Chloromethane              | 2.21 | 50  | 45631  | 21.696  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 53914  | 21.293  | ug/l | 100    |
| 5) Bromomethane               | 2.76 | 94  | 29072  | 20.743  | ug/l | 99     |
| 6) Chloroethane               | 2.92 | 64  | 29227  | 20.207  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 22798  | 20.147  | ug/l | 95     |
| 8) Diethyl Ether              | 3.68 | 74  | 29453  | 22.956  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 44619  | 20.786  | ug/l | 100    |
| 10) Methyl Iodide             | 4.28 | 142 | 65176  | 21.485  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.15 | 59  | 22250  | 110.710 | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 46699  | 20.604  | ug/l | 96     |
| 13) Acrolein                  | 3.89 | 56  | 17003  | 94.825  | ug/l | 97     |
| 14) Allyl chloride            | 4.67 | 41  | 101251 | 21.004  | ug/l | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 73674  | 115.030 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 67344  | 84.718  | ug/l | 97     |
| 17) Carbon Disulfide          | 4.38 | 76  | 144415 | 20.358  | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 46863  | 26.242  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 79919  | 22.220  | ug/l | 98     |
| 20) Methylene Chloride        | 4.91 | 84  | 60596  | 22.103  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 52466  | 21.471  | ug/l | 95     |
| 22) Diisopropyl ether         | 6.31 | 45  | 207333 | 22.812  | ug/l | 96     |
| 23) Vinyl Acetate             | 6.25 | 43  | 617112 | 108.058 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 109237 | 22.442  | ug/l | 99     |
| 25) 2-Butanone                | 7.16 | 43  | 106780 | 102.655 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 56634  | 18.919  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 57734  | 21.468  | ug/l | 97     |
| 28) Bromochloromethane        | 7.51 | 49  | 51126  | 23.663  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 68190  | 114.687 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 100833 | 22.454  | ug/l | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 95854  | 20.515  | ug/l | # 96   |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 74823  | 21.878  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 77923  | 19.971  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 48181  | 21.463  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 66543  | 19.922  | ug/l | 98     |

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 Sample : VW0803SBS01  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_W  
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 VW0803SBS01

Quant Time: Aug 04 00:05:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 84621    | 19.696  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 228942   | 20.948  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 28370    | 21.142  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 75180    | 21.971  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 87702    | 21.243  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 53080    | 20.207  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 62312    | 21.308  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 29069    | 21.779  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 74309    | 21.224  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 41565    | 20.959  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 9099     | 470.824 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 230969   | 107.558 | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 136988   | 20.755  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 73703    | 20.152  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 89067    | 20.482  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 41239    | 21.776  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 58548    | 21.128  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 77667    | 21.678  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 122732   | 97.544  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 154777   | 102.082 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 45262    | 21.532  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38084    | 21.251  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 46228    | 21.178  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 139042   | 20.629  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 48979    | 20.862  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 260136   | 20.265  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 188963   | 40.477  | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 89265    | 20.577  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 156109   | 20.813  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 25104    | 20.972  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 243663   | 20.304  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 80161    | 21.336  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 48996    | 21.706  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 63502    | 37.308  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 54354    | 20.492  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.80 | 91   | 294893   | 20.192  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 173233   | 20.589  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 208064   | 20.683  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 14379    | 19.469  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 180156   | 20.408  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 174608   | 20.757  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 211185   | 20.840  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 244306   | 20.354  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 218390   | 20.053  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 107951   | 20.756  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 105903   | 20.469  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.82 | 91   | 210419   | 19.361  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 40106    | 20.826  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 96956    | 21.077  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8426     | 21.890  | ug/l   | 97       |

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Sample : VW0803SBS01  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Quant Time: Aug 04 00:05:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 62596    | 19.308 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 40083    | 19.826 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 114030   | 19.280 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 56765    | 19.975 | 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: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

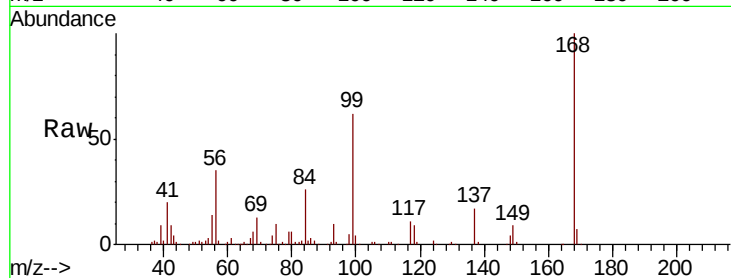
VW0803SBS01

Tgt Ion:168 Resp: 217629

Ion Ratio Lower Upper

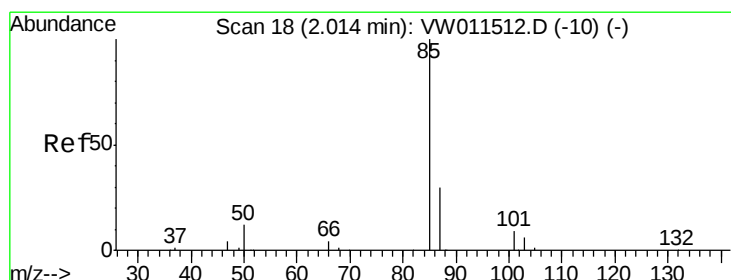
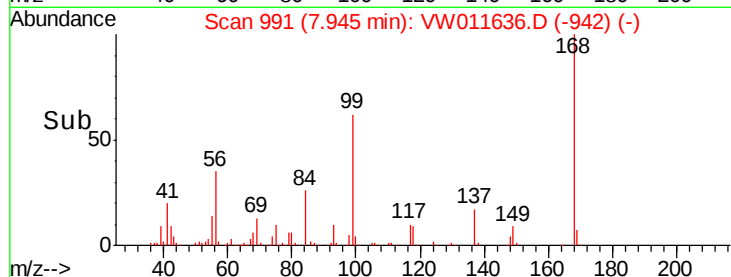
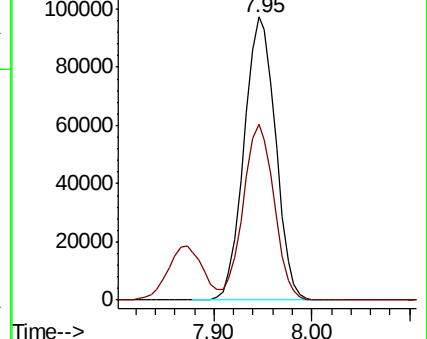
168 100

99 62.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 22.748 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW011636.D

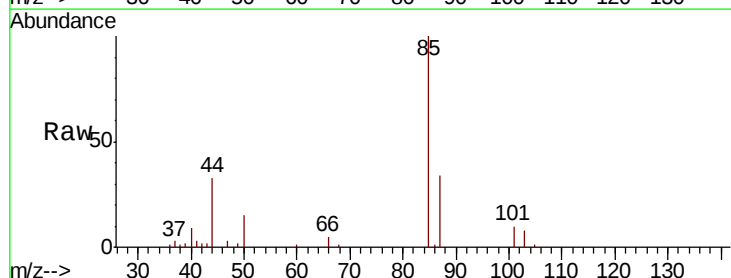
Acq: 02 Aug 2019 23:32

Tgt Ion: 85 Resp: 27590

Ion Ratio Lower Upper

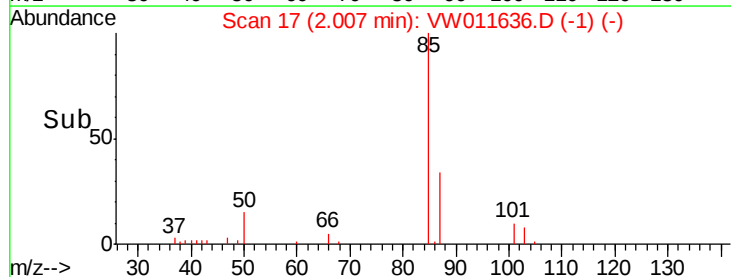
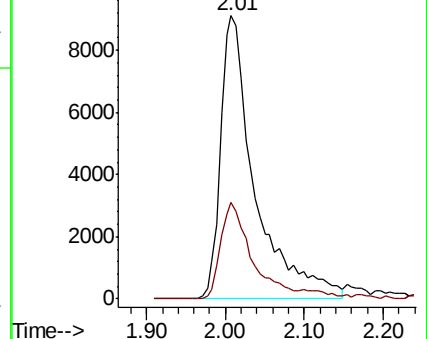
85 100

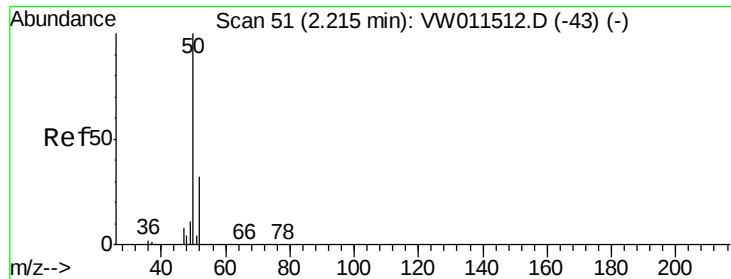
87 34.1 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

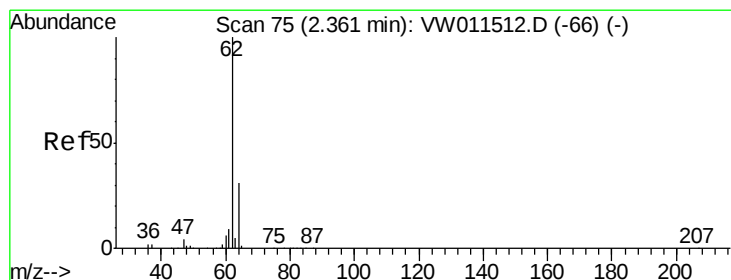
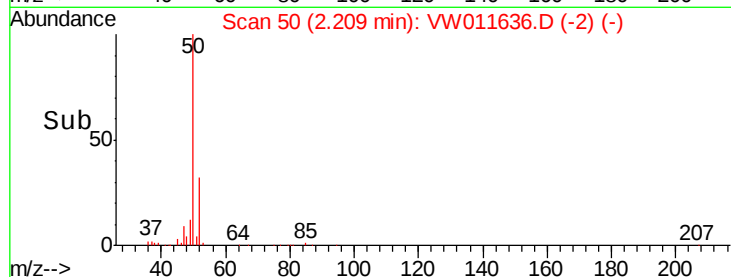
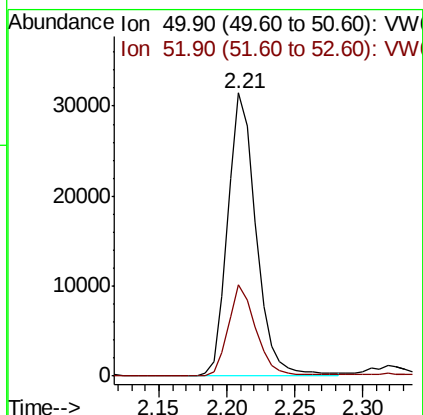
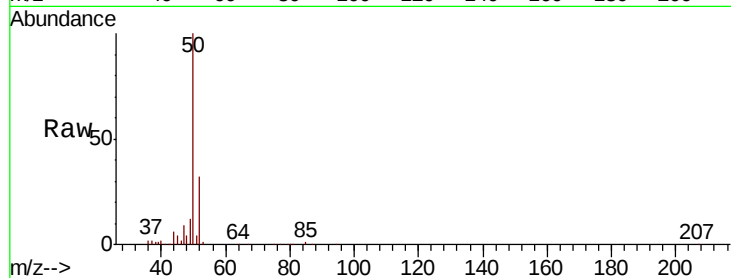




#3  
Chloromethane  
Concen: 21.696 ug/l  
RT: 2.21 min Scan# 50  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

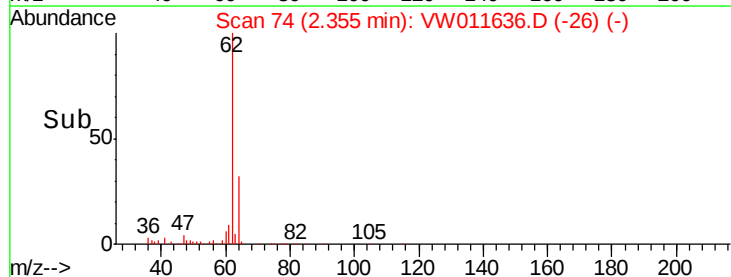
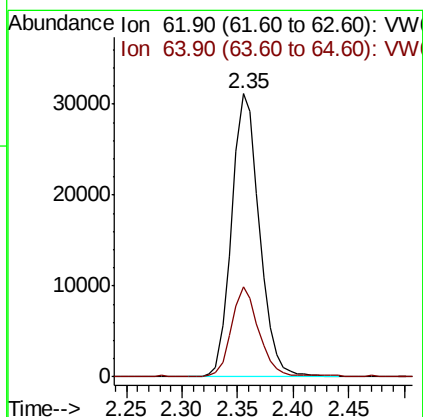
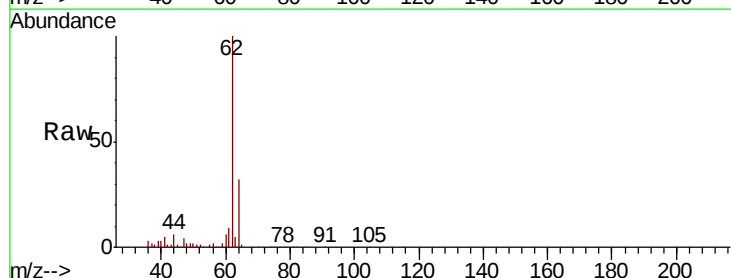
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

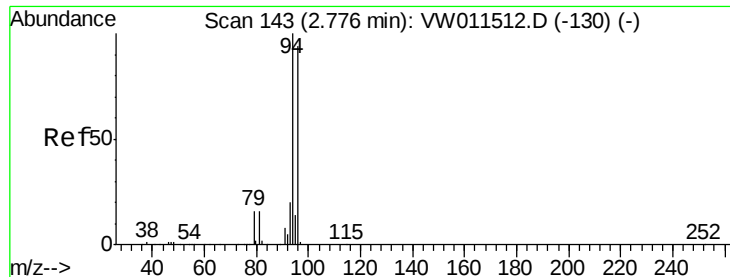
Tgt Ion: 50 Resp: 45631  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.4 38.2



#4  
Vinyl Chloride  
Concen: 21.293 ug/l  
RT: 2.35 min Scan# 74  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 62 Resp: 53914  
Ion Ratio Lower Upper  
62 100  
64 31.4 25.0 37.4





#5

Bromomethane

Concen: 20.743 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

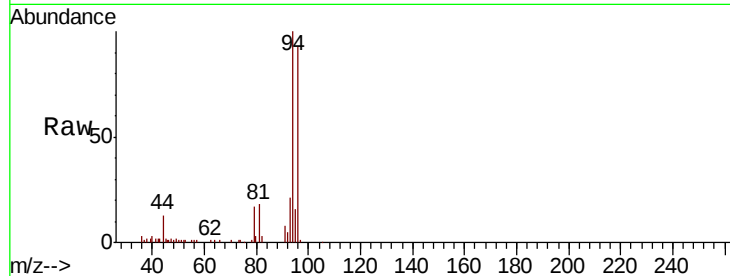
VW0803SBS01

Tgt Ion: 94 Resp: 29072

Ion Ratio Lower Upper

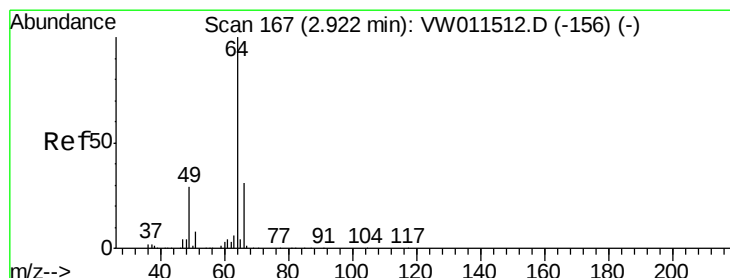
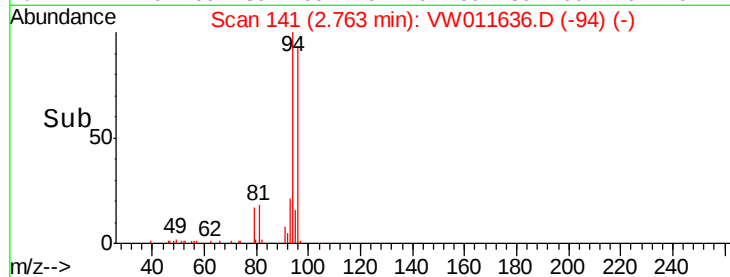
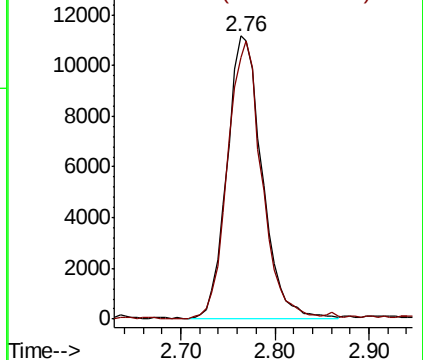
94 100

96 92.5 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 20.207 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW011636.D

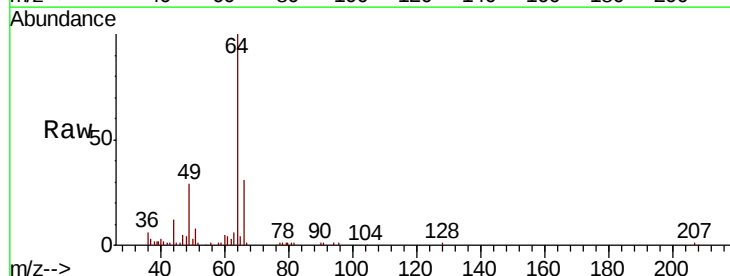
Acq: 02 Aug 2019 23:32

Tgt Ion: 64 Resp: 29227

Ion Ratio Lower Upper

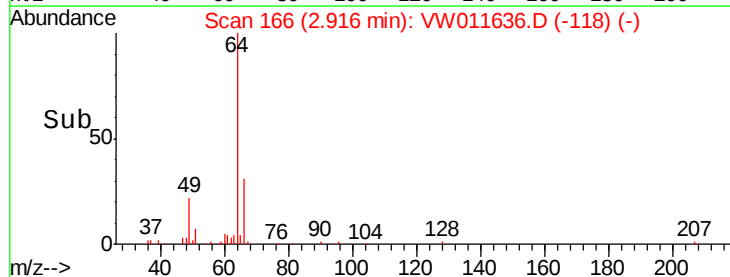
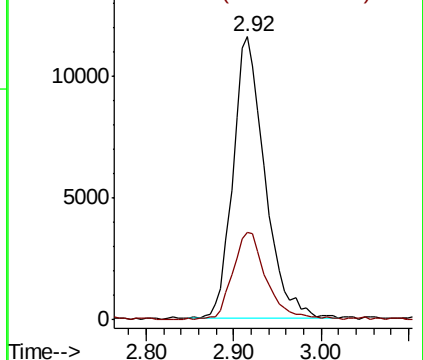
64 100

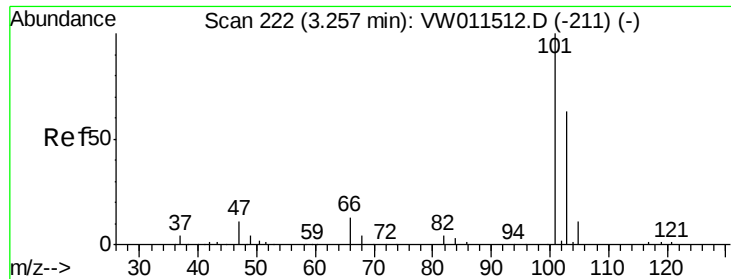
66 30.5 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



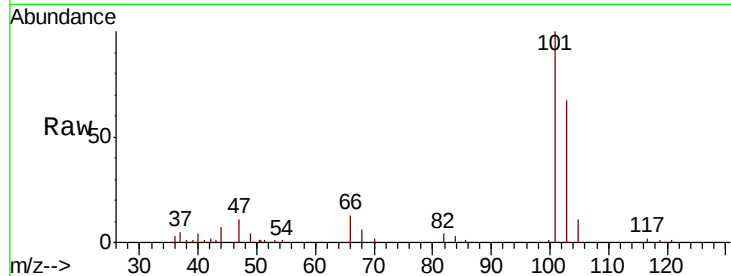


#7

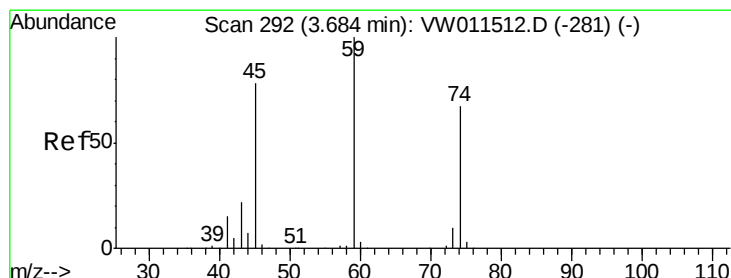
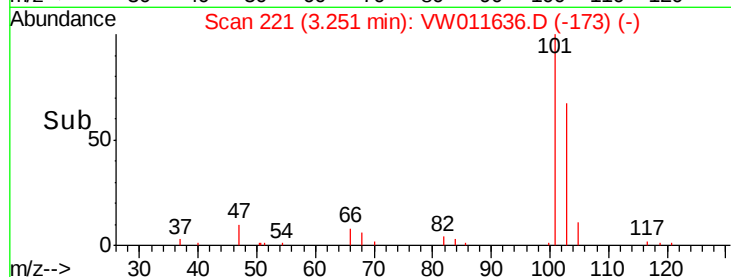
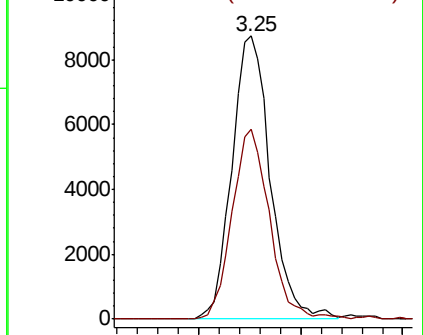
Trichlorofluoromethane  
Concen: 20.147 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion:101 Resp: 22798  
Ion Ratio Lower Upper  
101 100  
103 66.9 50.2 75.4



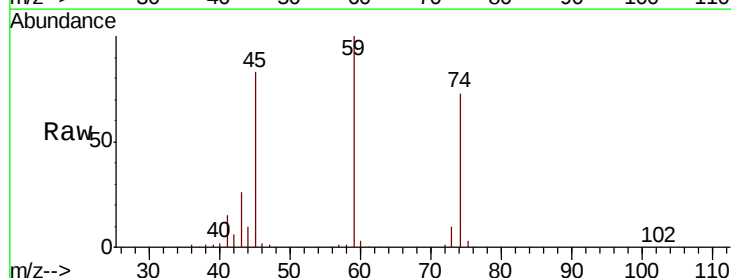
Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 102.80 (102.50 to 103.50): V



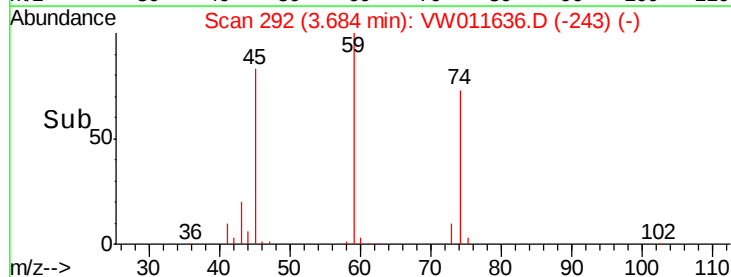
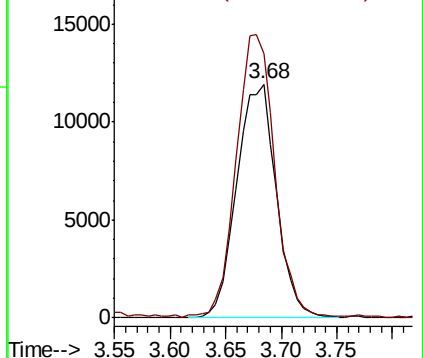
#8

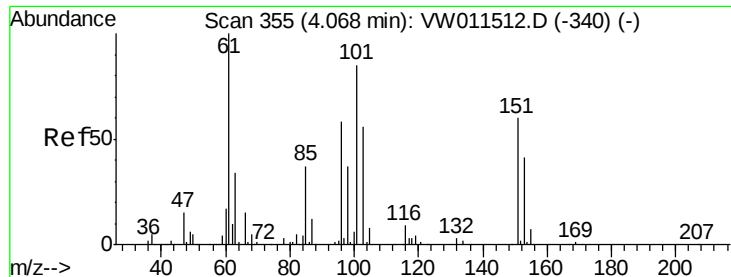
Diethyl Ether  
Concen: 22.956 ug/l  
RT: 3.68 min Scan# 292  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 74 Resp: 29453  
Ion Ratio Lower Upper  
74 100  
45 117.0 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW  
Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.786 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

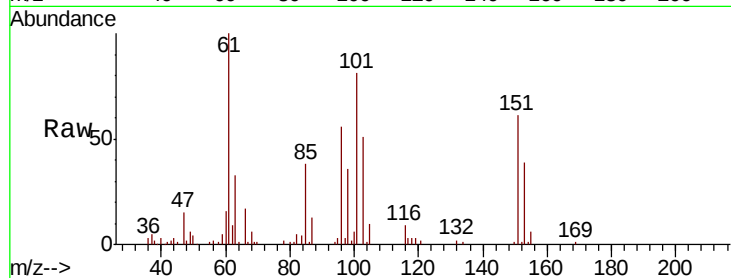
Tgt Ion:101 Resp: 44619

Ion Ratio Lower Upper

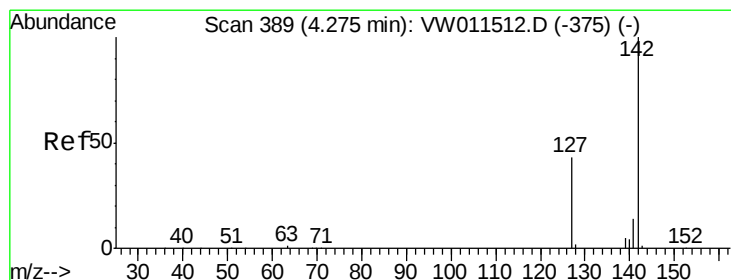
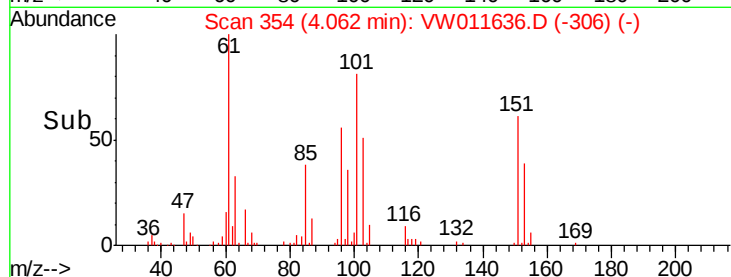
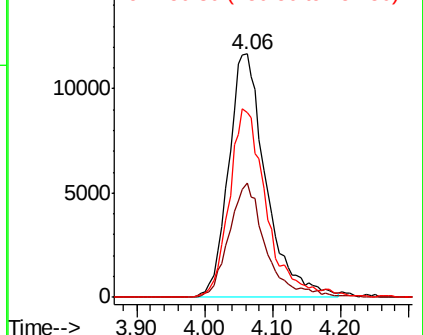
101 100

85 45.7 36.6 54.8

151 75.6 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.485 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

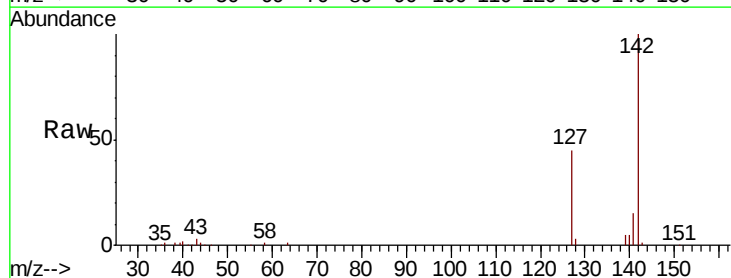
Tgt Ion:142 Resp: 65176

Ion Ratio Lower Upper

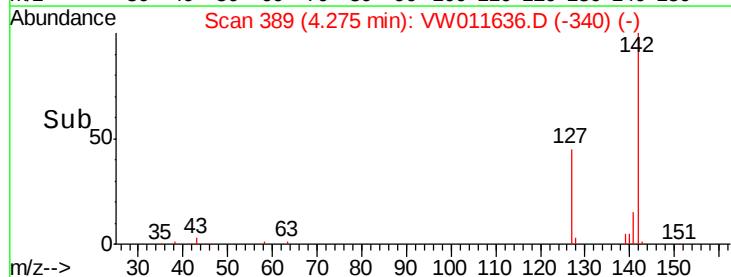
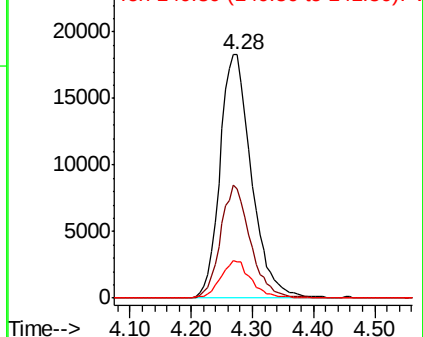
142 100

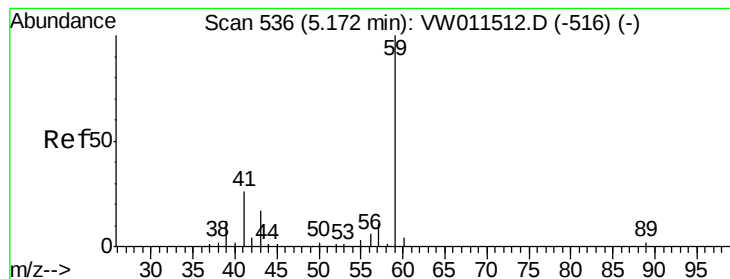
127 43.9 35.0 52.6

141 14.8 11.9 17.9



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



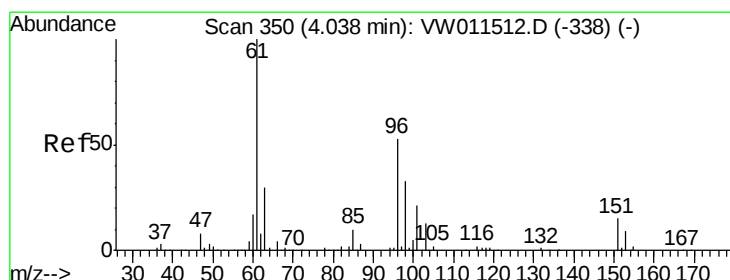
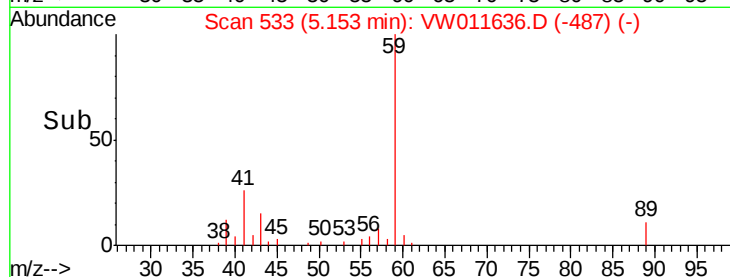
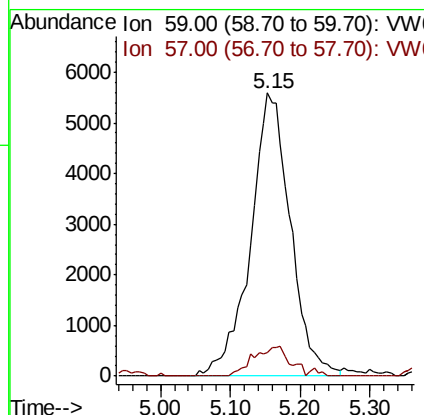
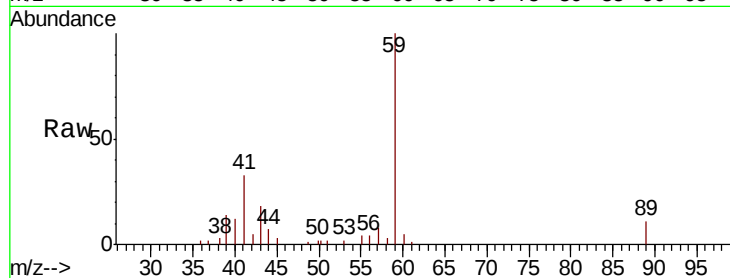


#11

Tert butyl alcohol  
 Concen: 110.710 ug/l  
 RT: 5.15 min Scan# 533  
 Delta R.T. -0.02 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

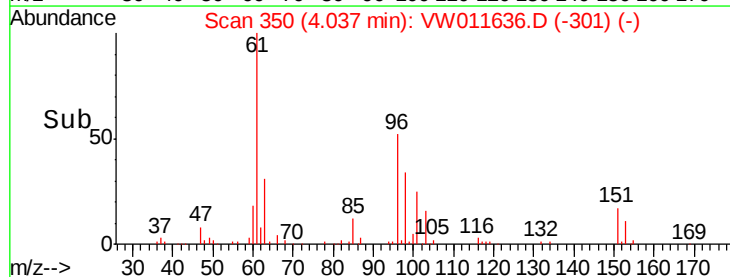
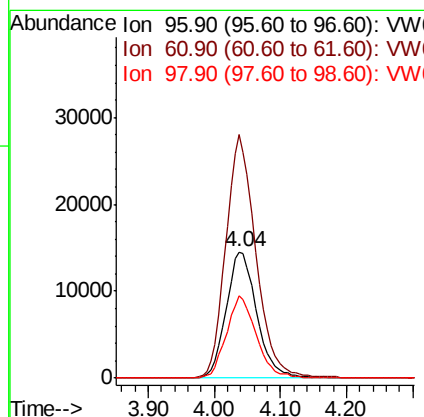
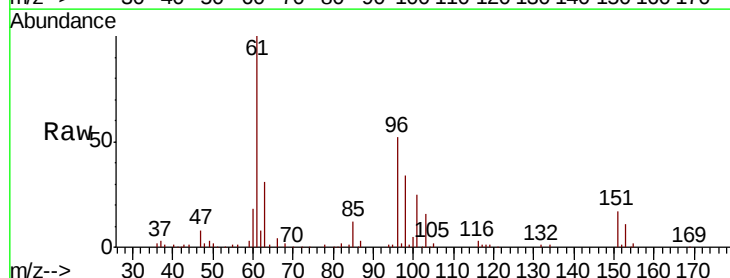
Tgt Ion: 59 Resp: 22250  
 Ion Ratio Lower Upper  
 59 100  
 57 9.5 8.5 12.7

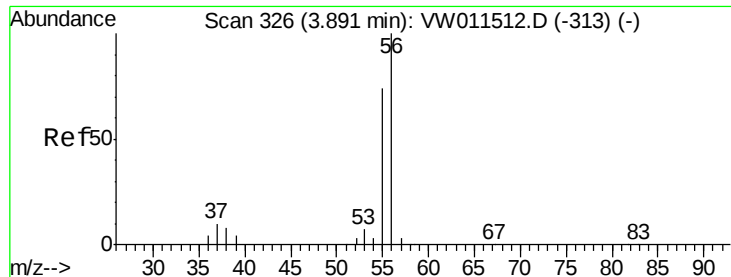


#12

1,1-Dichloroethene  
 Concen: 20.604 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 96 Resp: 46699  
 Ion Ratio Lower Upper  
 96 100  
 61 192.8 149.9 224.9  
 98 65.4 49.1 73.7





#13

Acrolein

Concen: 94.825 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

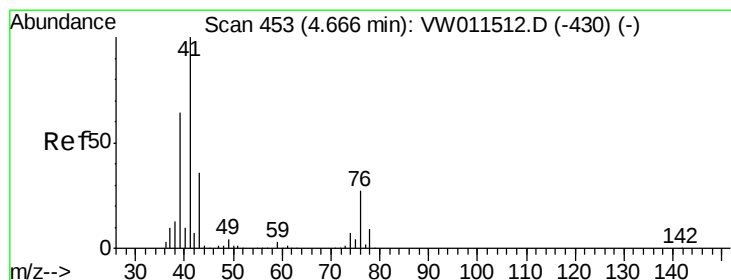
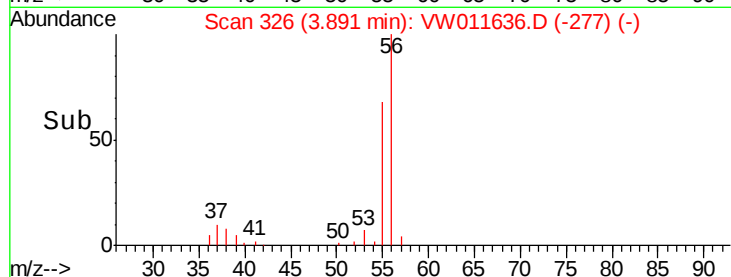
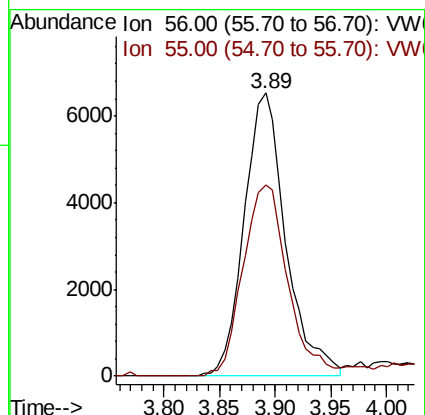
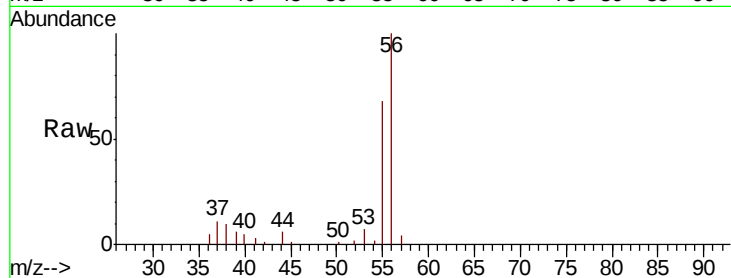
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion: 56 Resp: 17003

Ion Ratio Lower Upper

56 100

55 72.5 56.0 84.0



#14

Allyl chloride

Concen: 21.004 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

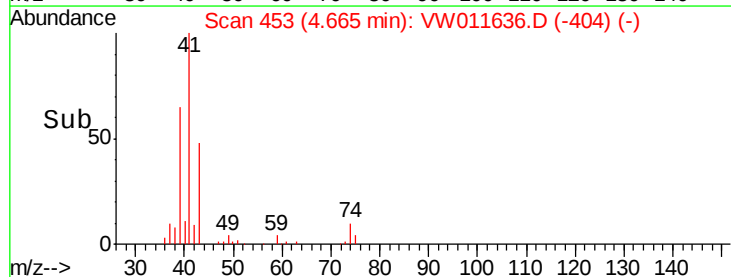
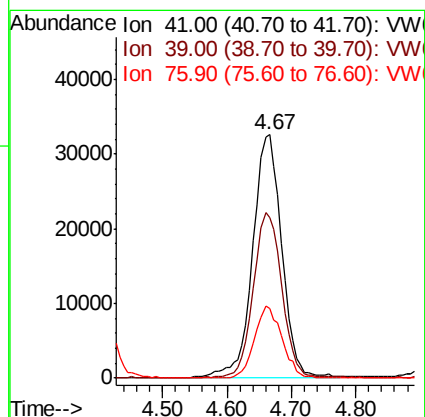
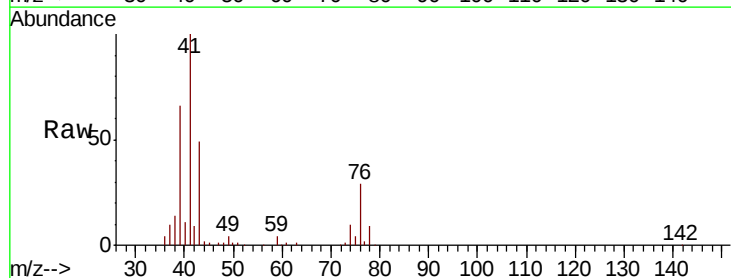
Tgt Ion: 41 Resp: 101251

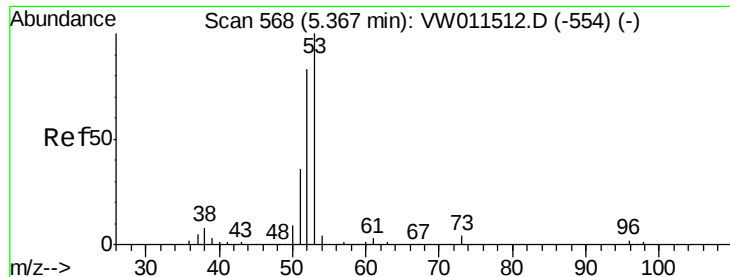
Ion Ratio Lower Upper

41 100

39 66.9 52.6 78.8

76 27.8 22.0 33.0





#15

Acrylonitrile

Concen: 115.030 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

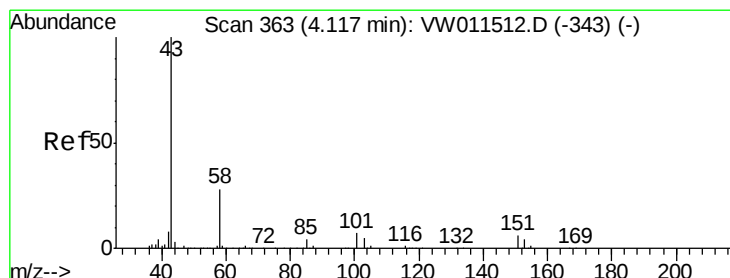
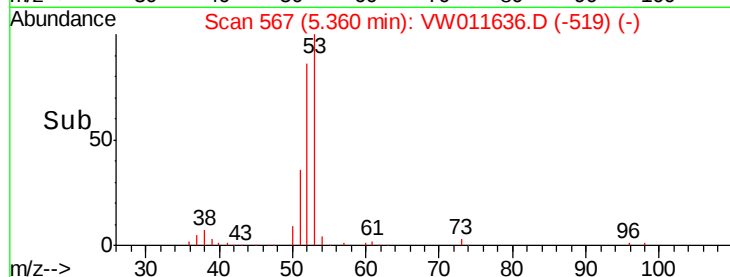
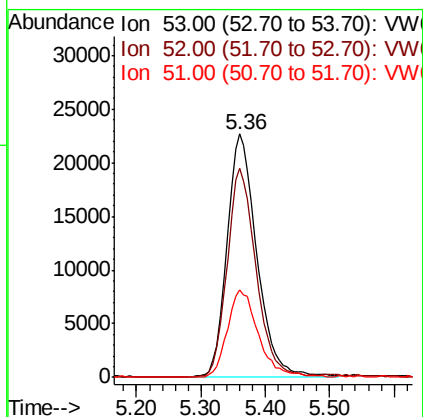
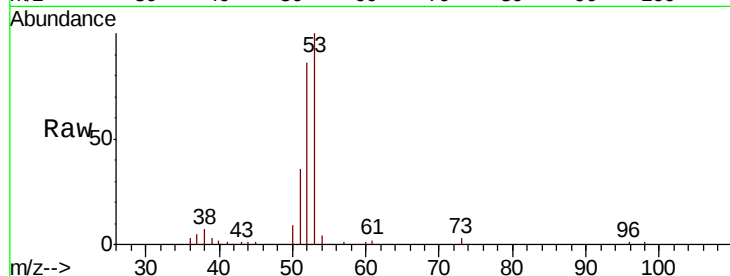
Tgt Ion: 53 Resp: 73674

Ion Ratio Lower Upper

53 100

52 83.0 67.2 100.8

51 37.6 30.0 45.0



#16

Acetone

Concen: 84.718 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011636.D

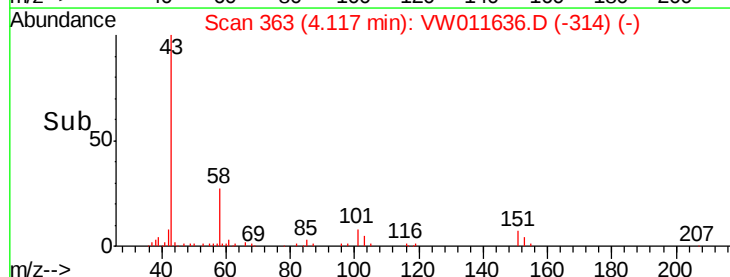
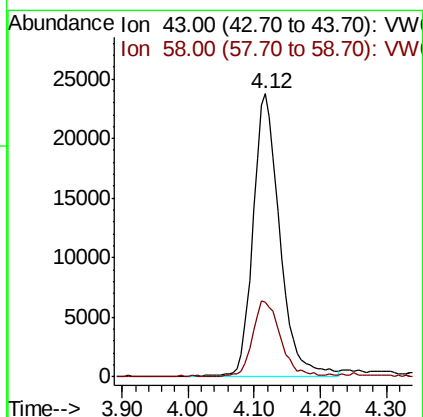
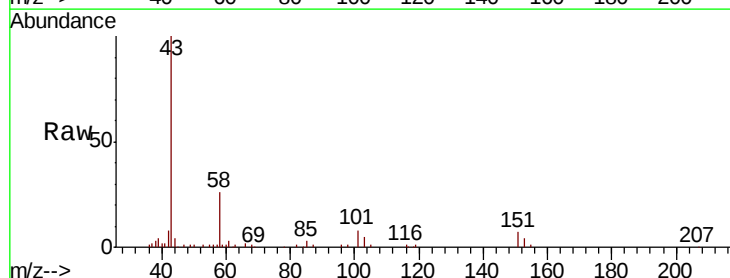
Acq: 02 Aug 2019 23:32

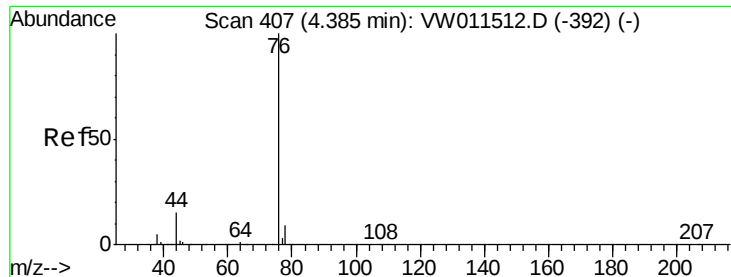
Tgt Ion: 43 Resp: 67344

Ion Ratio Lower Upper

43 100

58 26.4 22.3 33.5

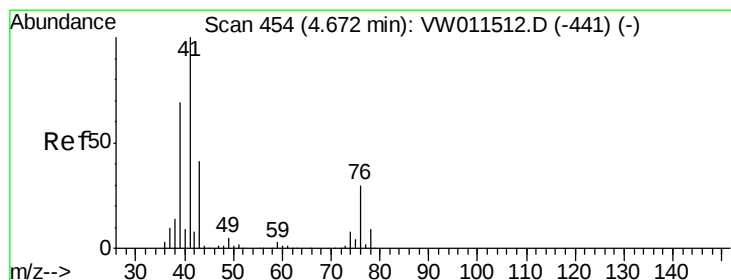
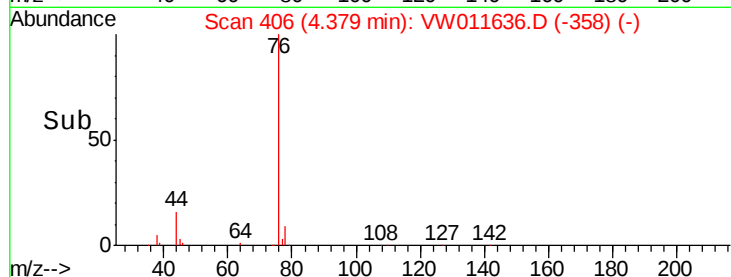
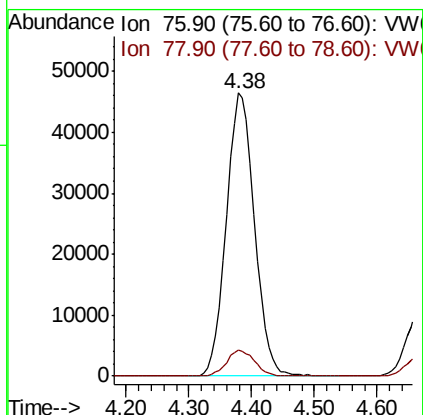
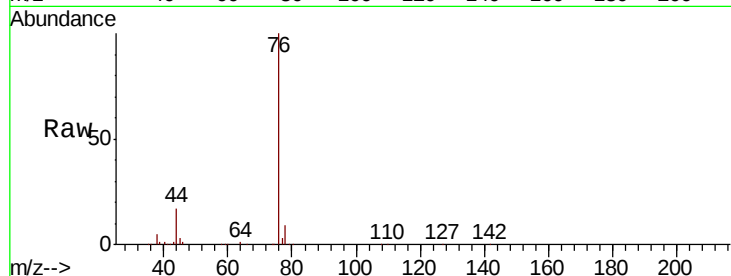




#17  
Carbon Disulfide  
Concen: 20.358 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

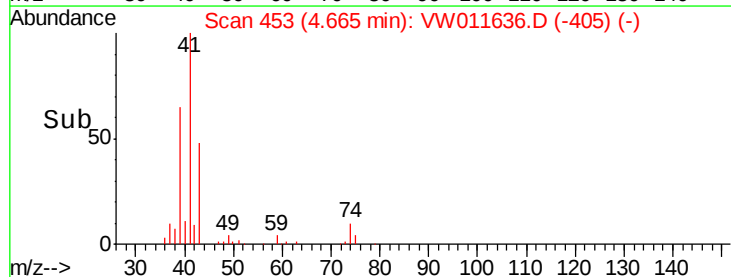
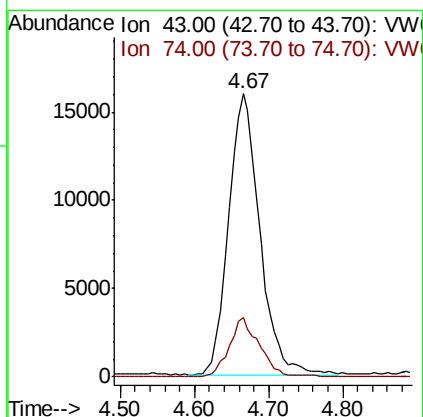
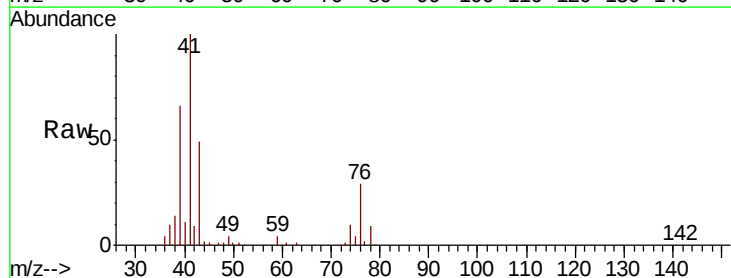
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

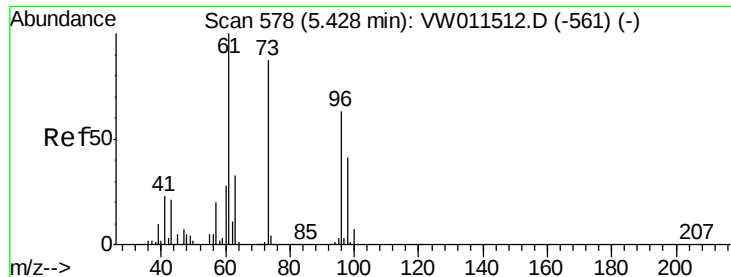
Tgt Ion: 76 Resp: 144415  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.1 10.7



#18  
Methyl Acetate  
Concen: 26.242 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 43 Resp: 46863  
Ion Ratio Lower Upper  
43 100  
74 20.3 15.9 23.9

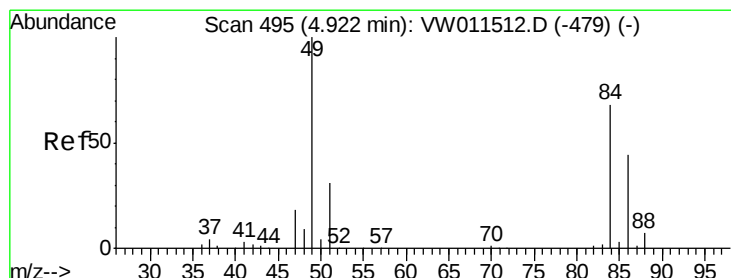
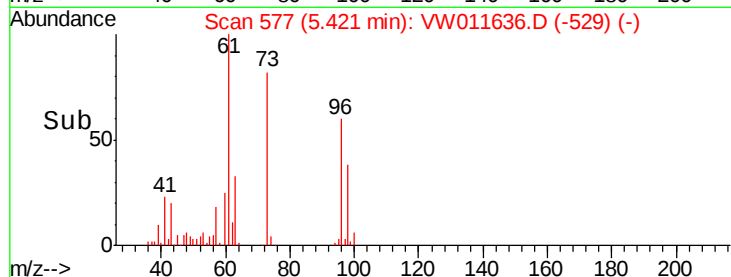
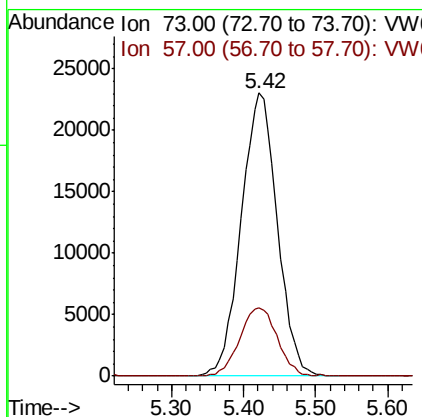
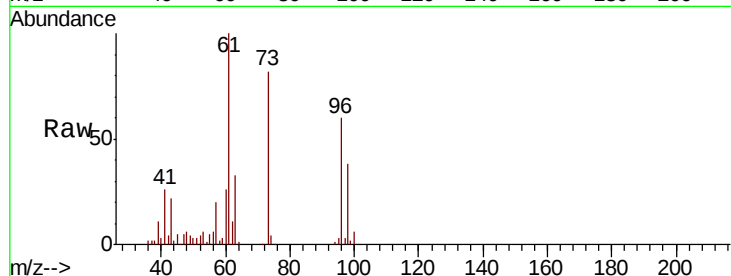




#19  
Methyl tert-butyl Ether  
Concen: 22.220 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

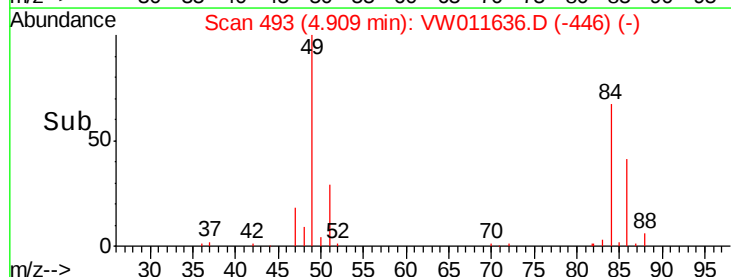
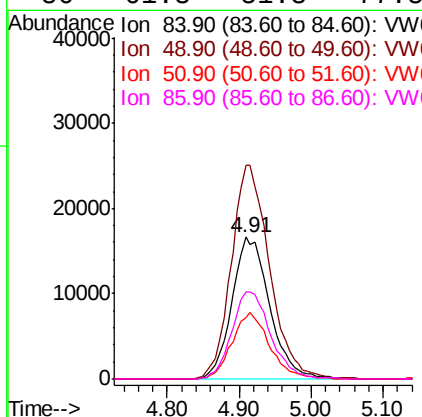
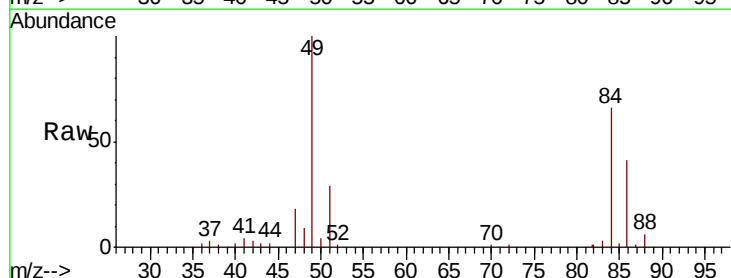
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

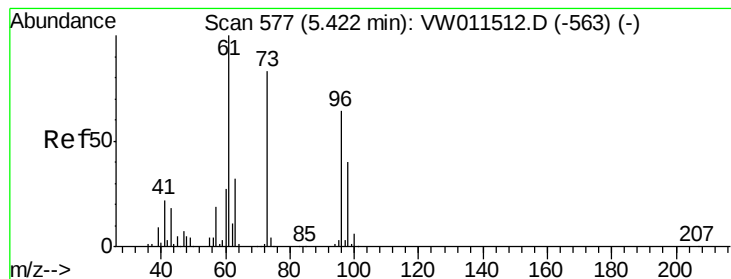
Tgt Ion: 73 Resp: 79919  
Ion Ratio Lower Upper  
73 100  
57 23.9 18.4 27.6



#20  
Methylene Chloride  
Concen: 22.103 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 84 Resp: 60596  
Ion Ratio Lower Upper  
84 100  
49 150.6 117.8 176.6  
51 43.4 37.0 55.4  
86 61.3 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 21.471 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

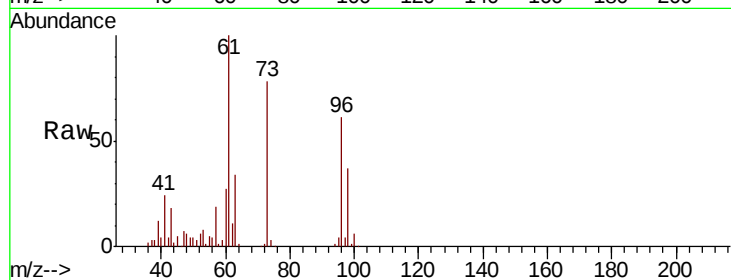
Tgt Ion: 96 Resp: 52466

Ion Ratio Lower Upper

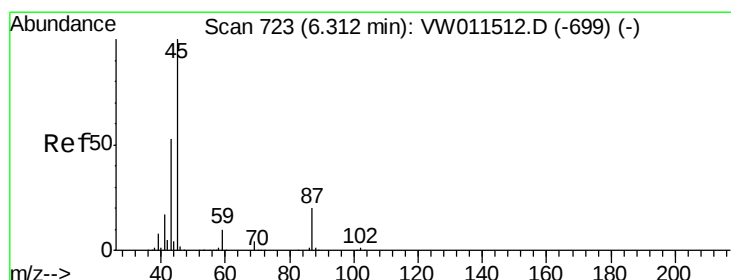
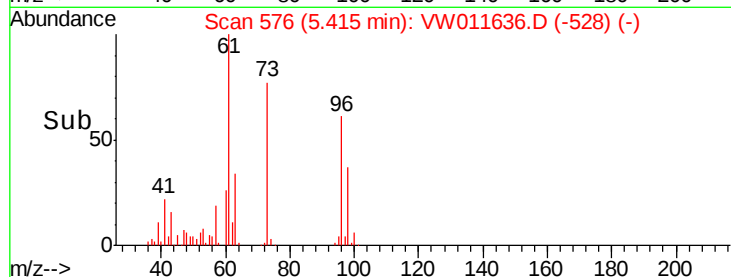
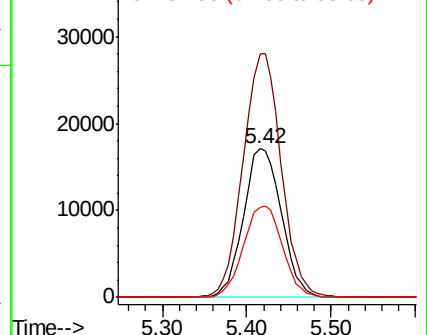
96 100

61 164.0 125.7 188.5

98 60.5 50.3 75.5



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: 22.812 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Tgt Ion: 45 Resp: 207333

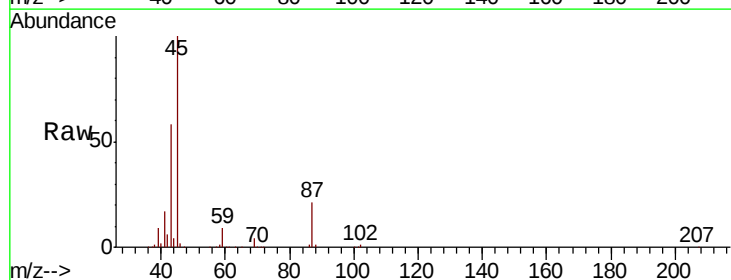
Ion Ratio Lower Upper

45 100

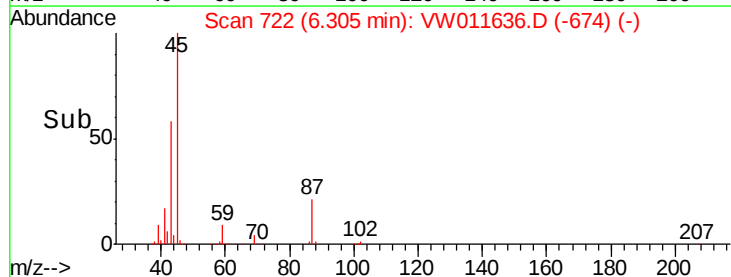
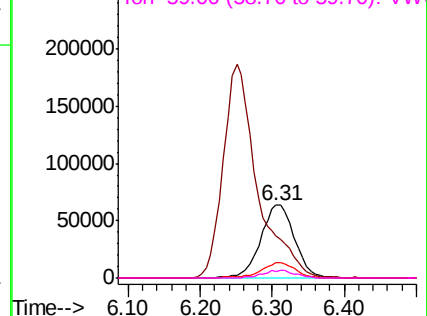
43 57.4 42.6 63.8

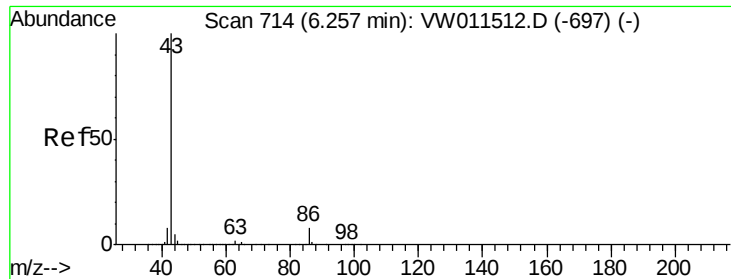
87 20.9 16.4 24.6

59 9.3 8.2 12.2



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: 108.058 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

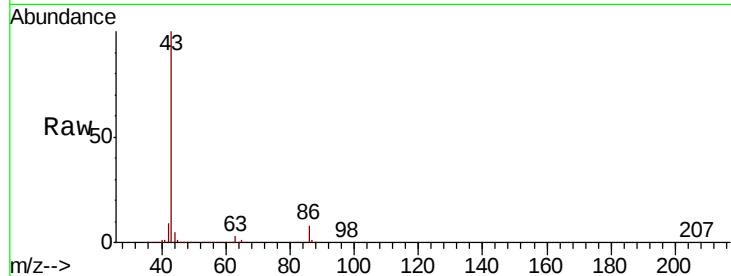
VW0803SBS01

Tgt Ion: 43 Resp: 617112

Ion Ratio Lower Upper

43 100

86 7.9 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.25

200000

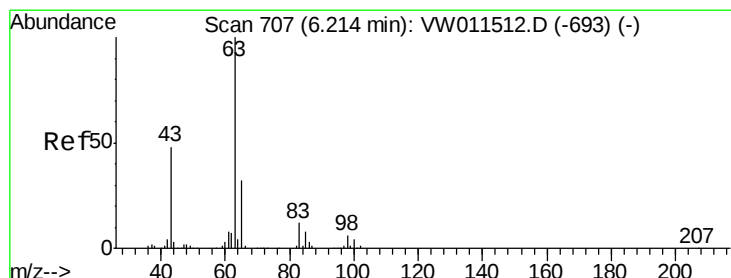
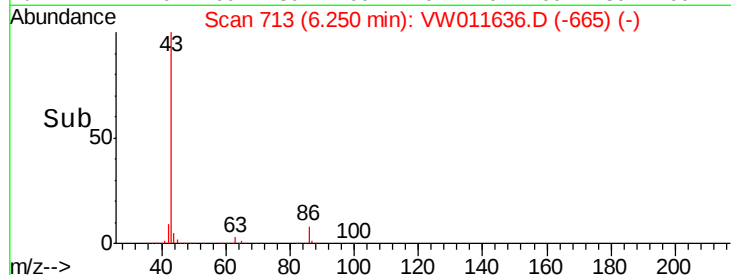
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.442 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

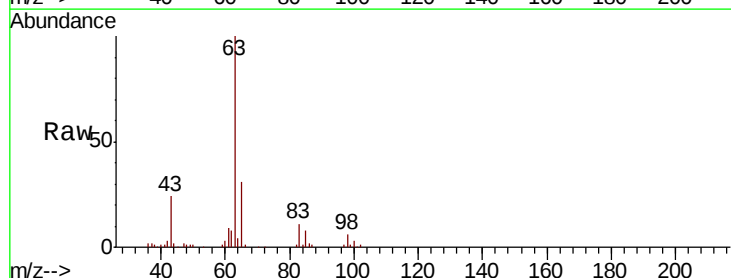
Tgt Ion: 63 Resp: 109237

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.8

100 3.2 2.1 6.3



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

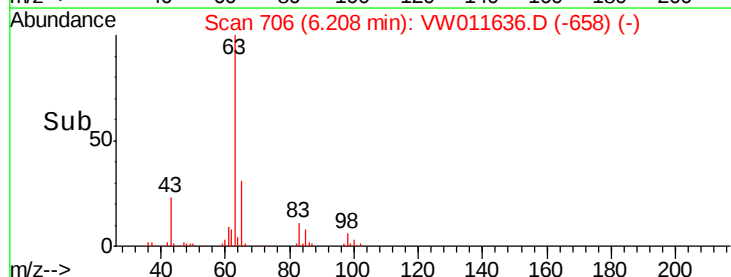
30000

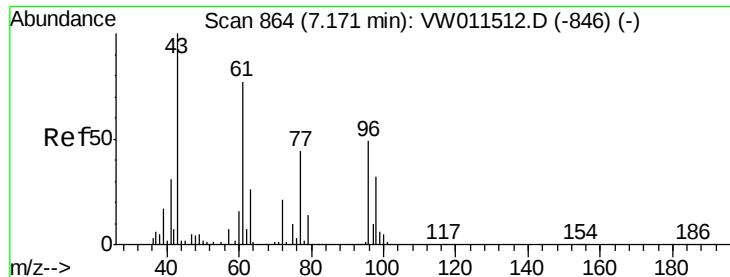
20000

10000

0

Time-->

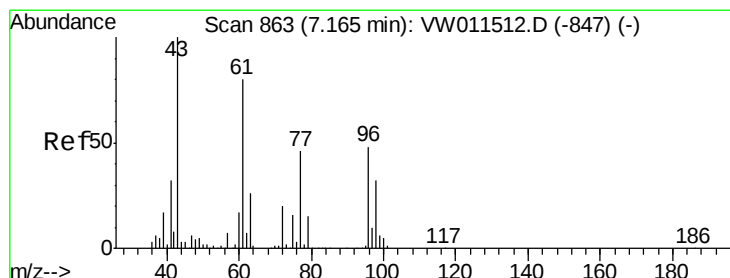
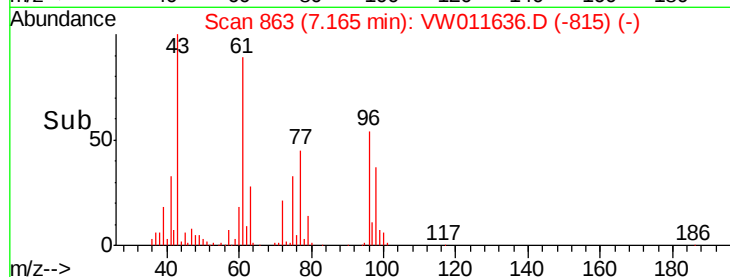
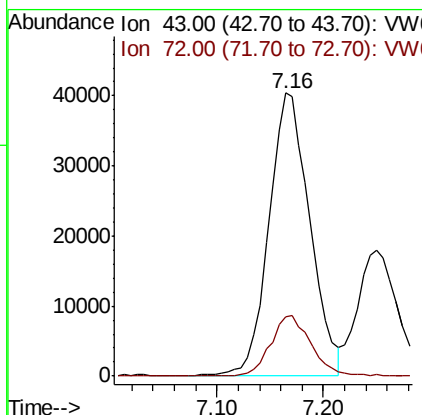
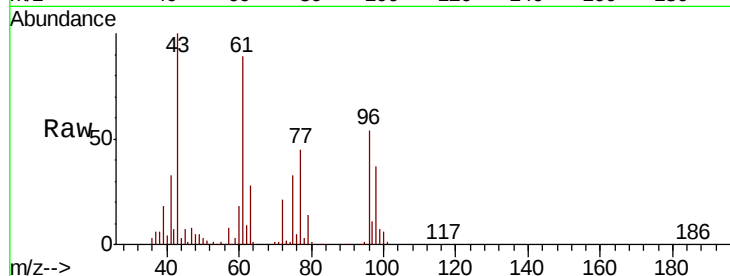




#25  
2-Butanone  
Concen: 102.655 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

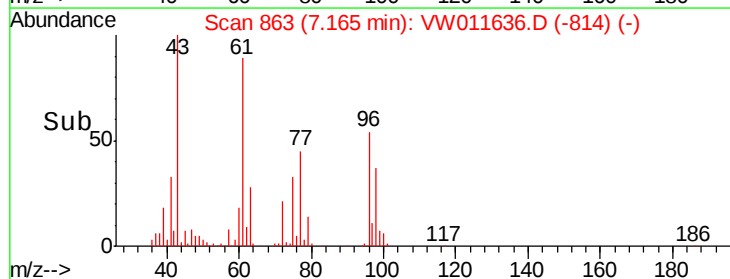
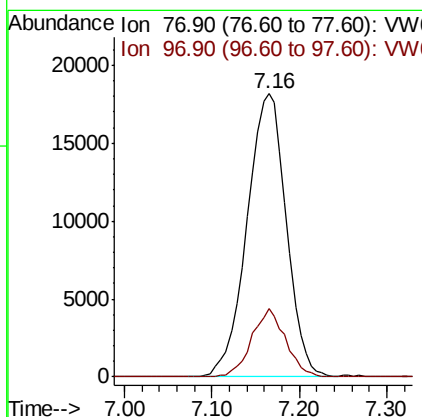
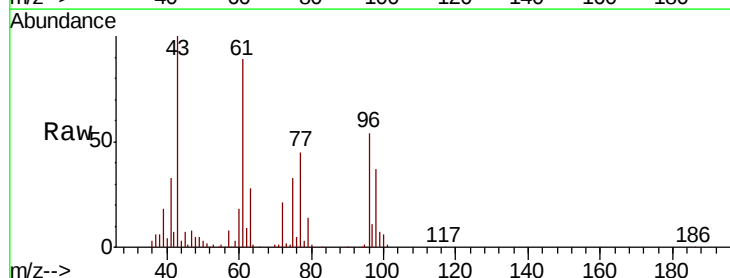
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0803SBS01

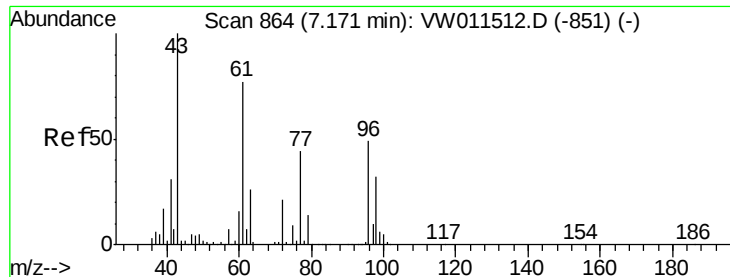
Tgt Ion: 43 Resp: 106780  
Ion Ratio Lower Upper  
43 100  
72 20.9 16.6 24.8



#26  
2,2-Dichloropropane  
Concen: 18.919 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 77 Resp: 56634  
Ion Ratio Lower Upper  
77 100  
97 20.8 10.8 32.4



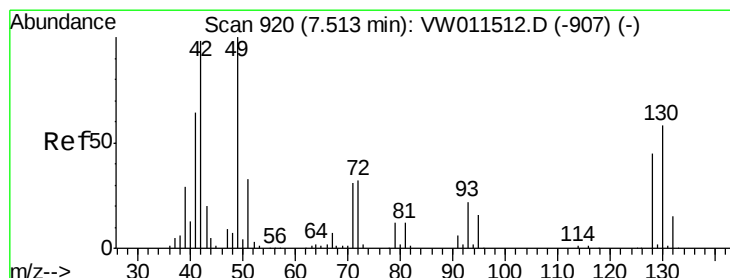
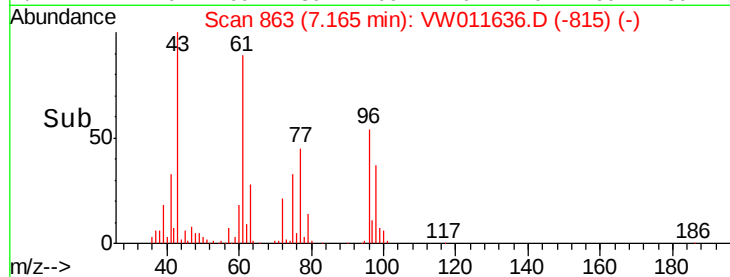
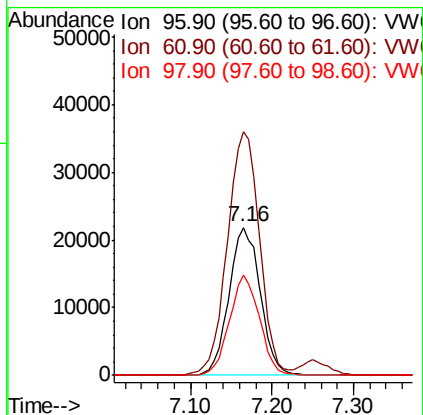
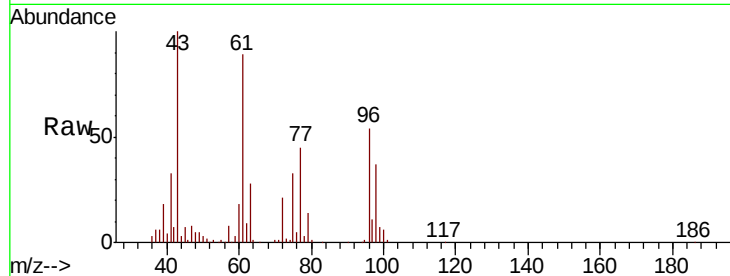


#27

cis-1,2-Dichloroethene  
 Concen: 21.468 ug/l  
 RT: 7.16 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

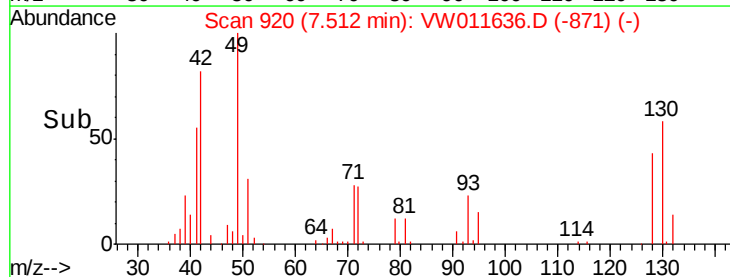
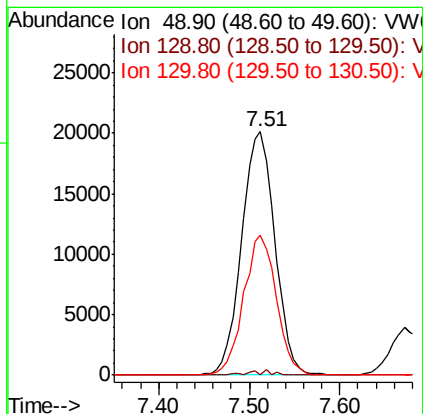
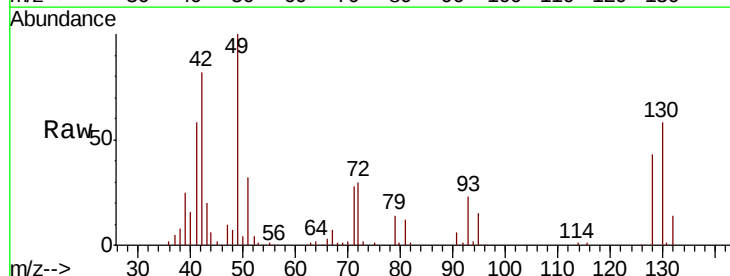
Tgt Ion: 96 Resp: 57734  
 Ion Ratio Lower Upper  
 96 100  
 61 169.3 0.0 328.4  
 98 65.5 0.0 128.8

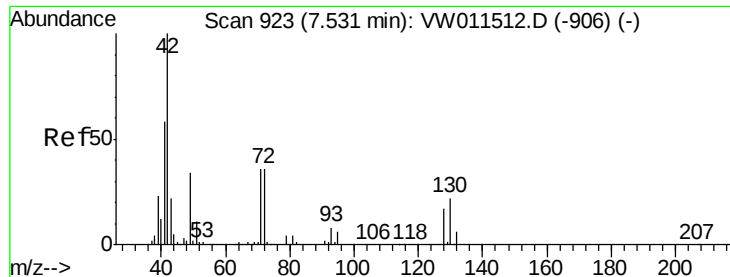


#28

Bromochloromethane  
 Concen: 23.663 ug/l  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 49 Resp: 51126  
 Ion Ratio Lower Upper  
 49 100  
 129 0.5 0.0 1.0  
 130 56.4 46.3 69.5

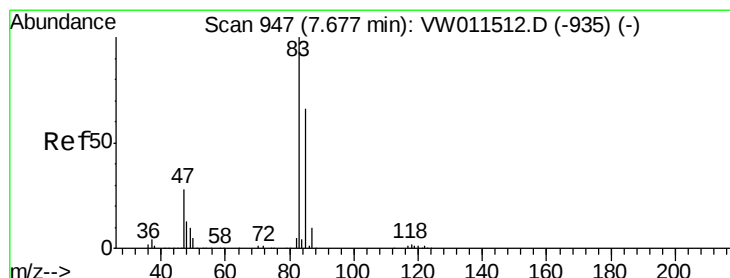
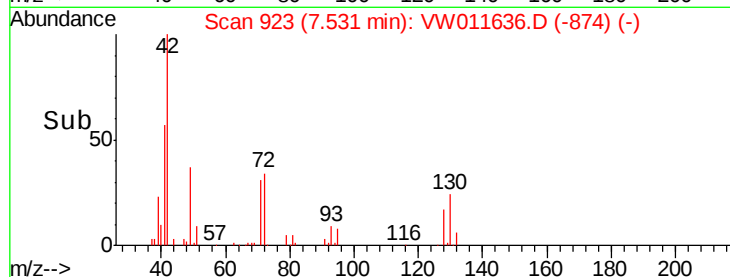
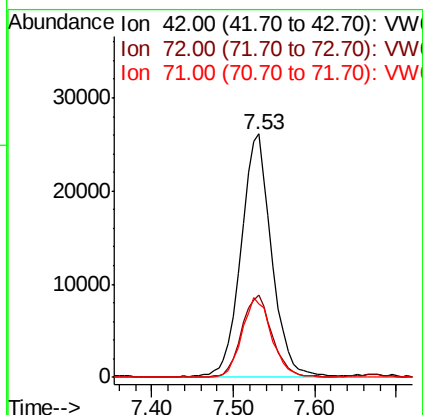
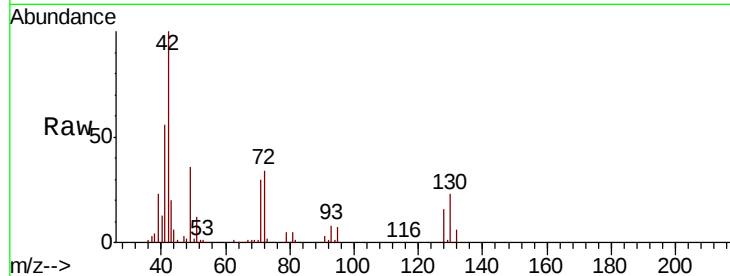




#29  
Tetrahydrofuran  
Concen: 114.687 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

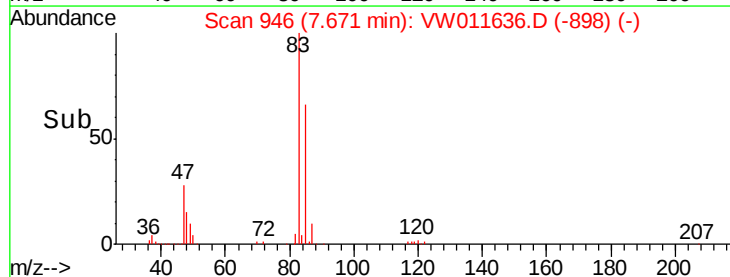
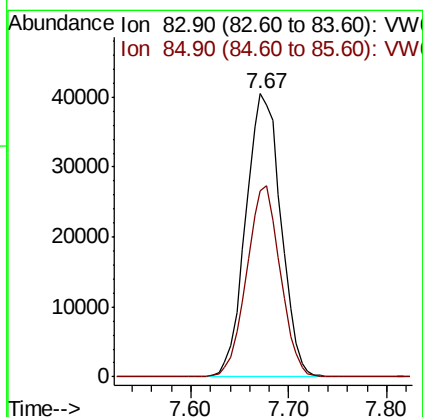
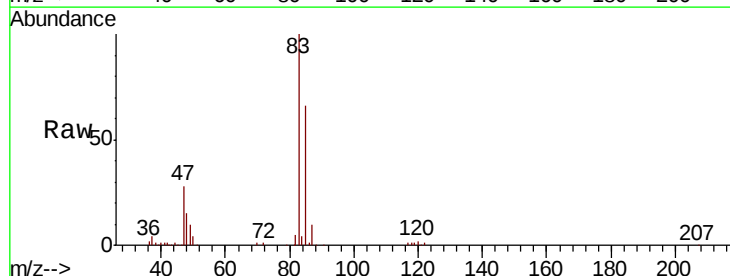
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

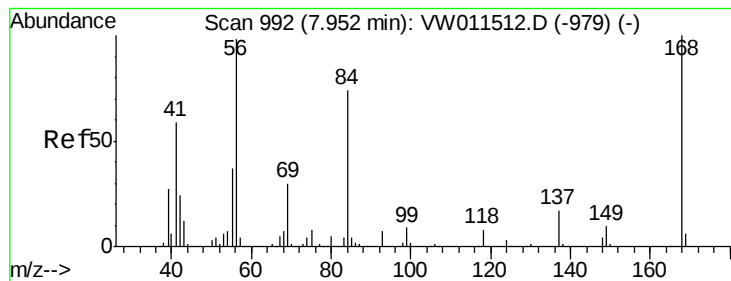
Tgt Ion: 42 Resp: 68190  
Ion Ratio Lower Upper  
42 100  
72 33.8 27.1 40.7  
71 32.0 26.2 39.4



#30  
Chloroform  
Concen: 22.454 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 83 Resp: 100833  
Ion Ratio Lower Upper  
83 100  
85 65.8 52.5 78.7





#31

Cyclohexane

Concen: 20.515 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

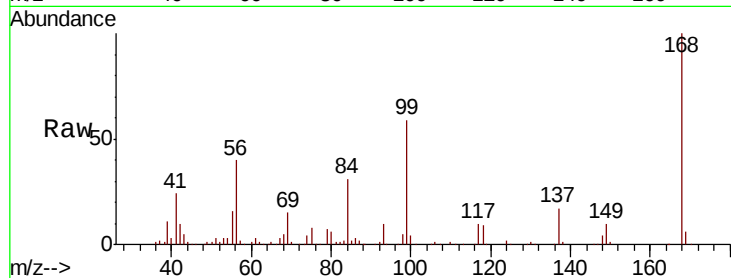
Tgt Ion: 56 Resp: 95854

Ion Ratio Lower Upper

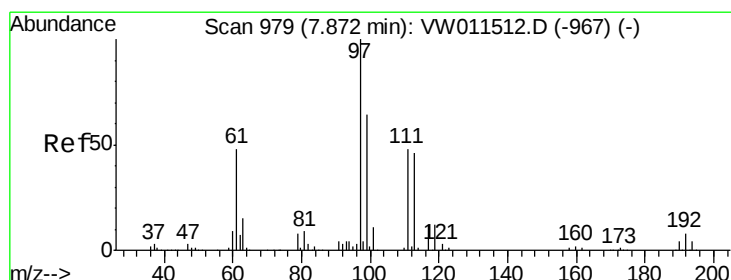
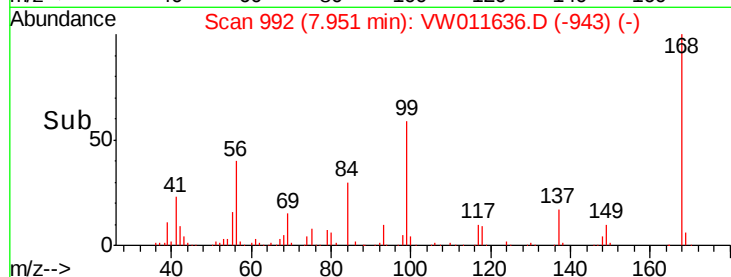
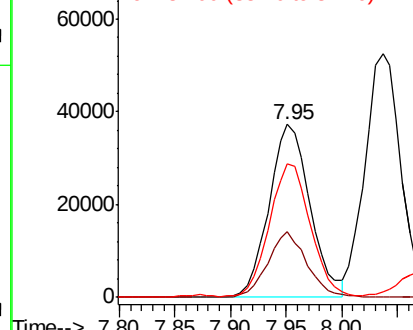
56 100

69 37.7 24.3 36.5#

84 75.9 60.4 90.6



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: 21.878 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

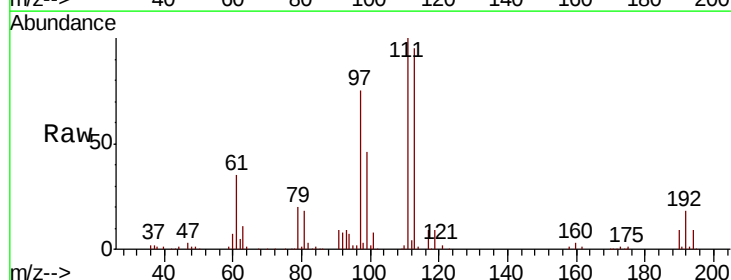
Tgt Ion: 97 Resp: 74823

Ion Ratio Lower Upper

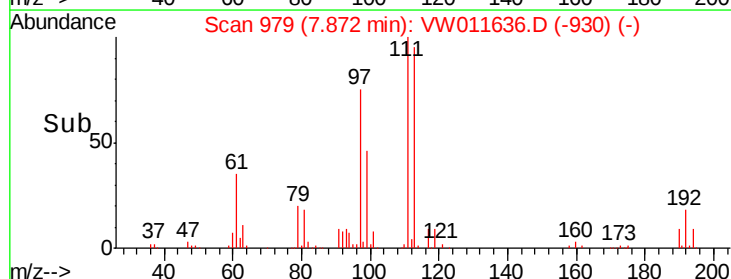
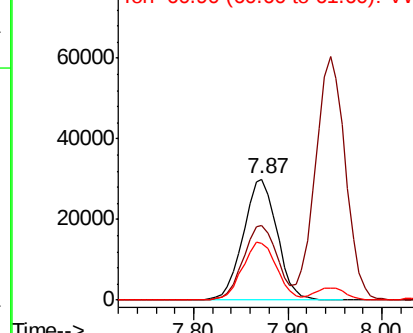
97 100

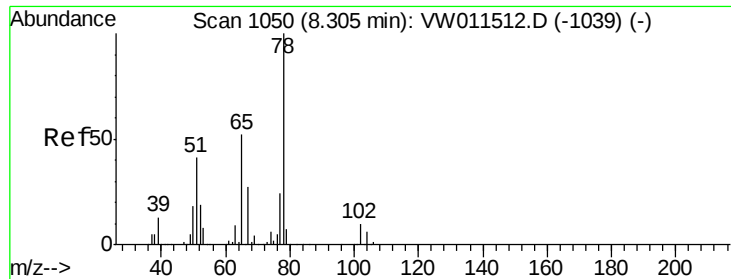
99 61.8 51.0 76.6

61 48.9 39.8 59.6



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

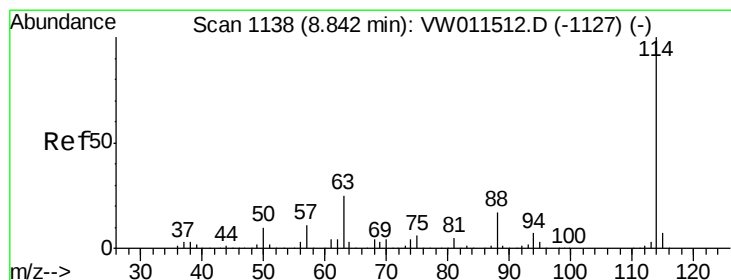
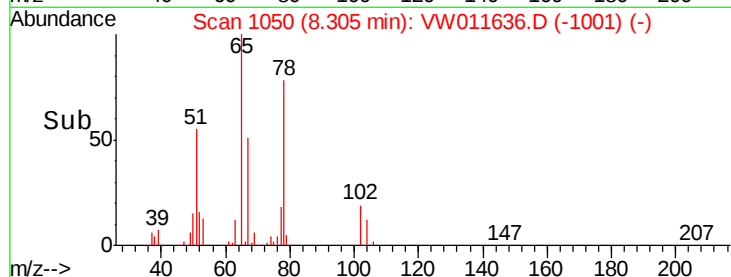
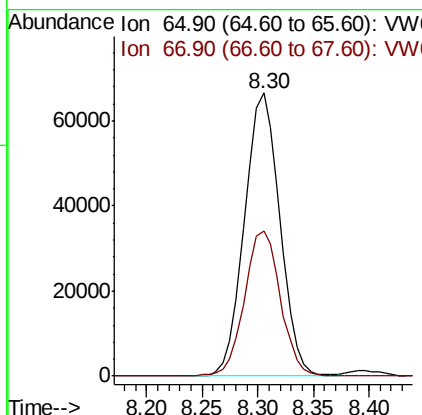
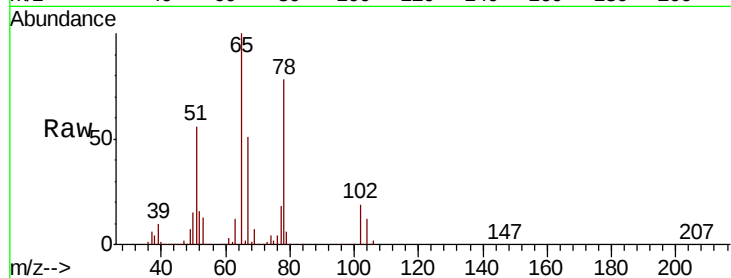




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.087 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

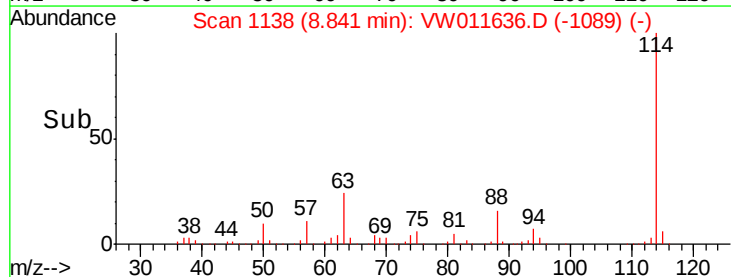
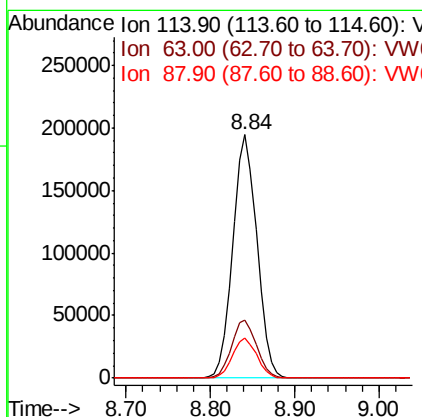
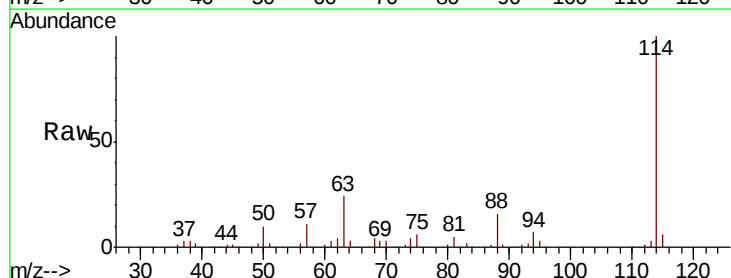
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

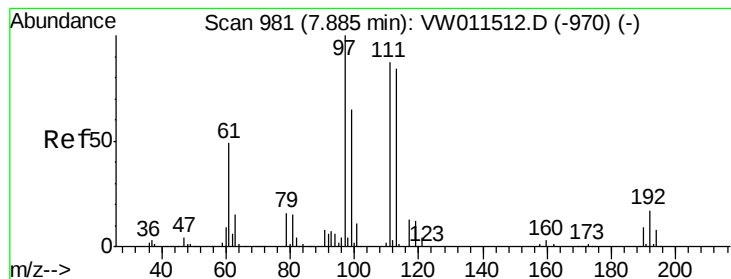
Tgt Ion: 65 Resp: 147658  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 114 Resp: 375242  
 Ion Ratio Lower Upper  
 114 100  
 63 23.8 0.0 49.2  
 88 16.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 54.495 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

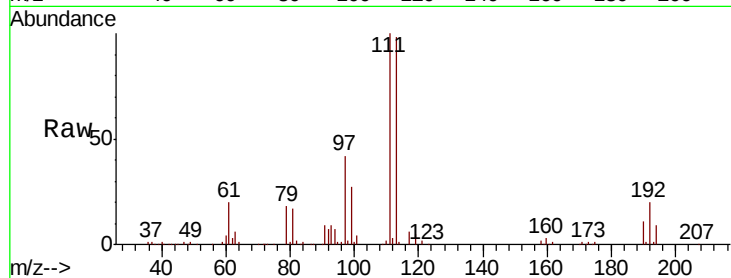
Tgt Ion:113 Resp: 114721

Ion Ratio Lower Upper

113 100

111 103.7 82.7 124.1

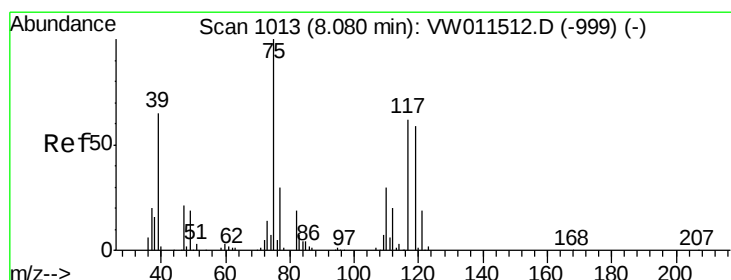
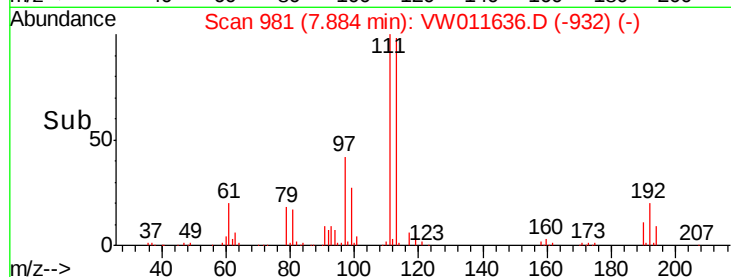
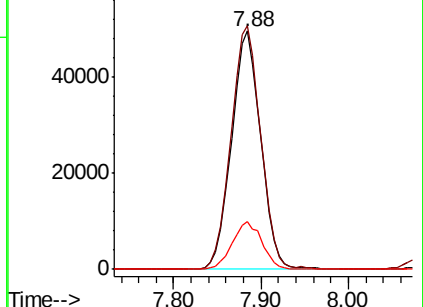
192 20.3 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.971 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

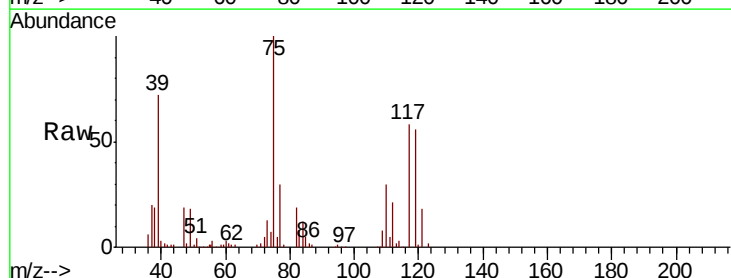
Tgt Ion: 75 Resp: 77923

Ion Ratio Lower Upper

75 100

110 31.2 15.6 46.8

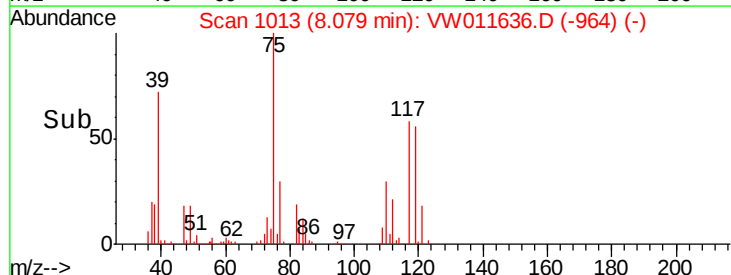
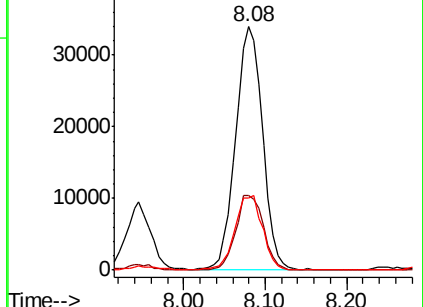
77 31.3 24.3 36.5

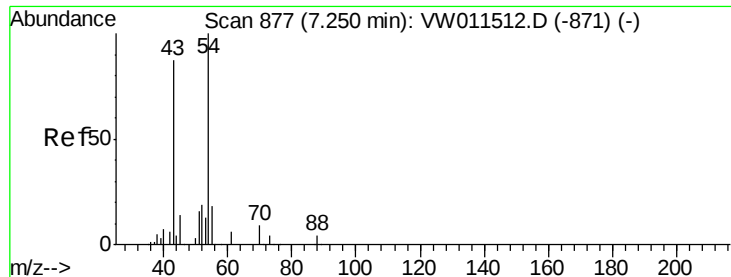


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

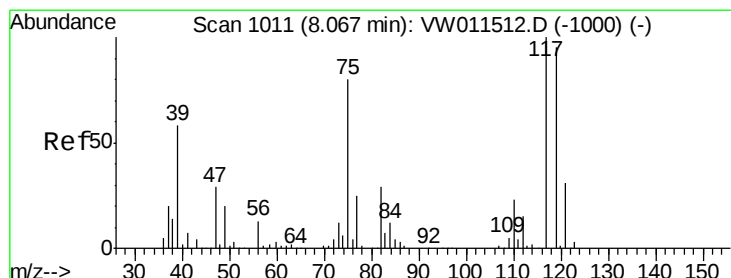
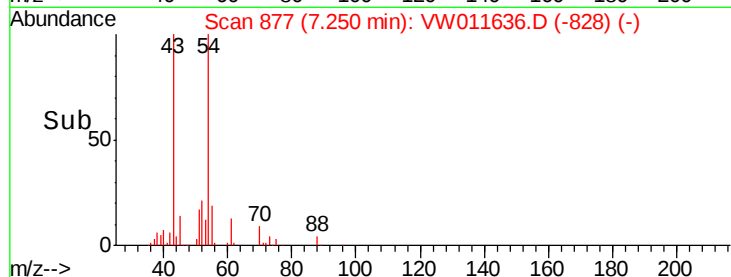
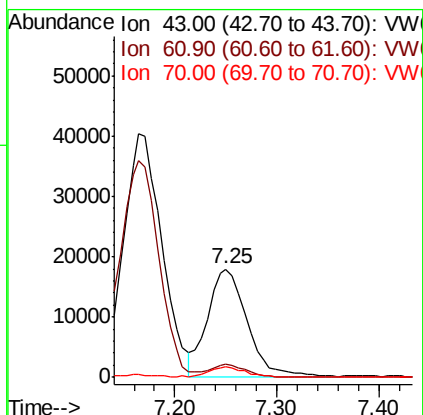
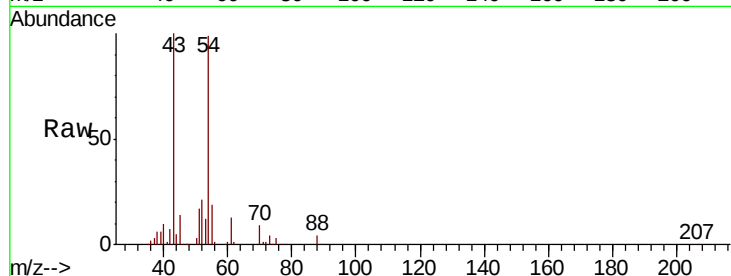




#37  
Ethyl Acetate  
Concen: 21.463 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

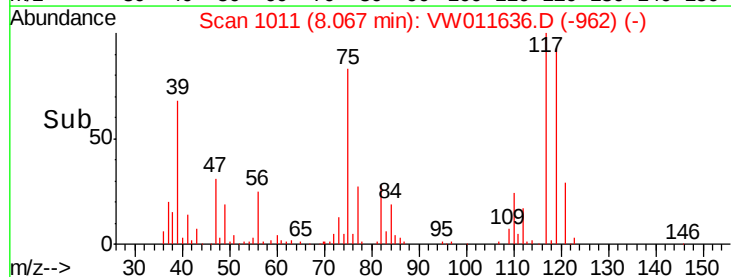
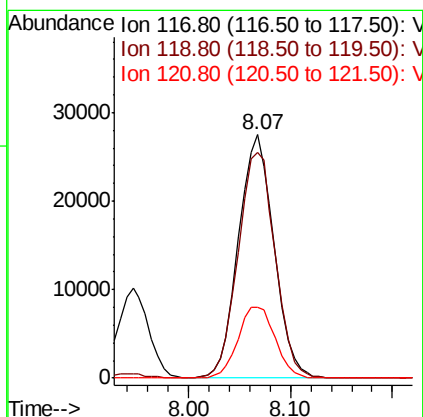
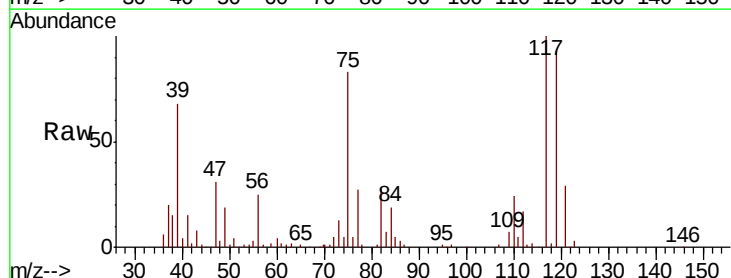
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

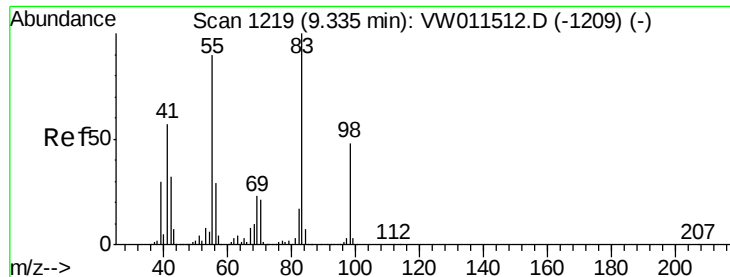
Tgt Ion: 43 Resp: 48181  
Ion Ratio Lower Upper  
43 100  
61 11.5 8.8 13.2  
70 9.1 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 19.922 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 117 Resp: 66543  
Ion Ratio Lower Upper  
117 100  
119 92.7 75.8 113.6  
121 29.1 24.7 37.1

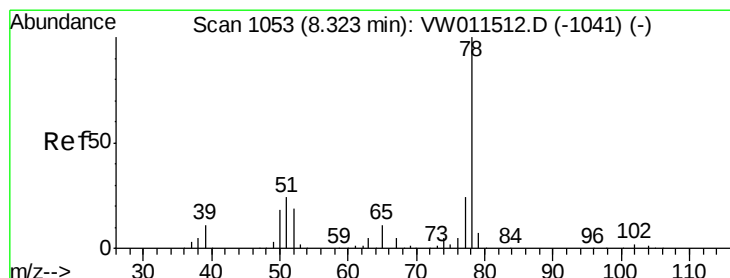
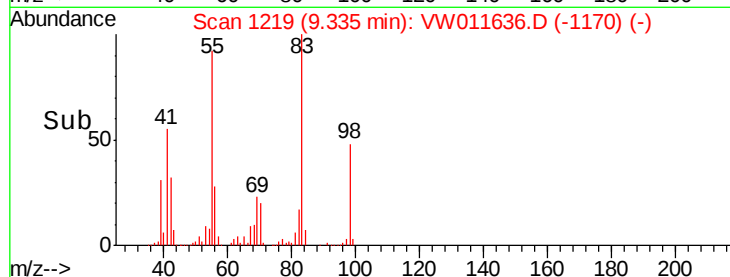
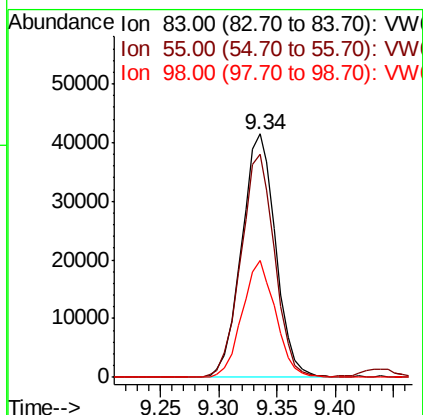
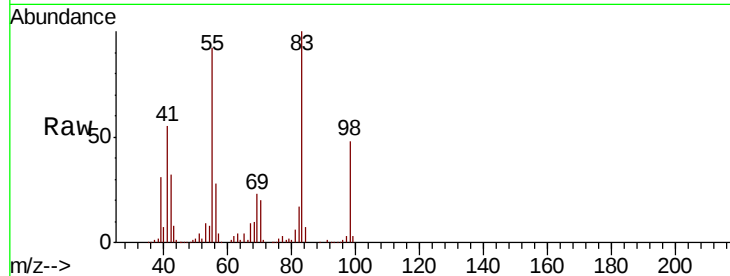




#39  
Methylcyclohexane  
Concen: 19.696 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

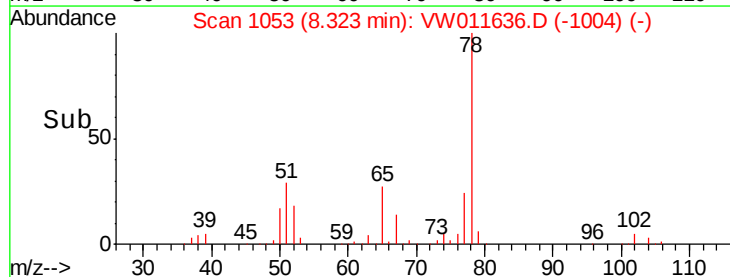
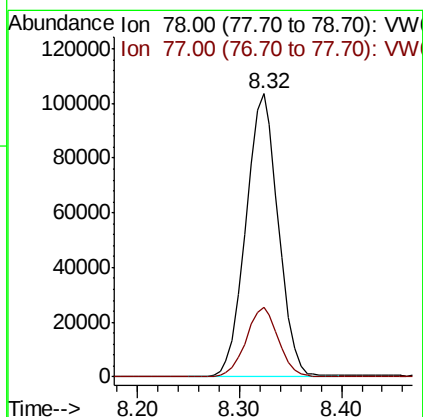
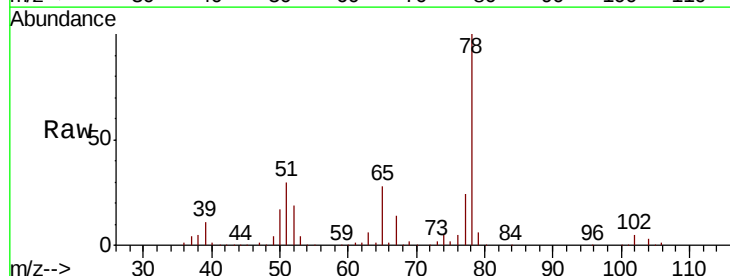
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0803SBS01

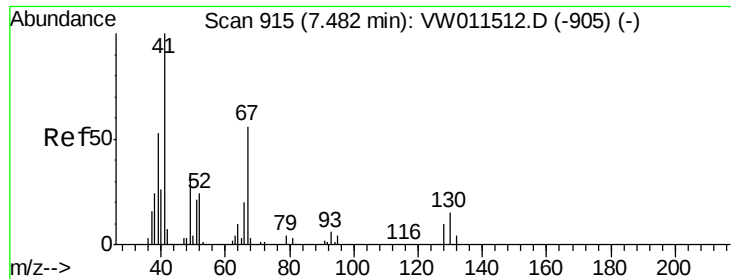
Tgt Ion: 83 Resp: 84621  
Ion Ratio Lower Upper  
83 100  
55 91.9 72.1 108.1  
98 48.0 38.6 57.8



#40  
Benzene  
Concen: 20.948 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 78 Resp: 228942  
Ion Ratio Lower Upper  
78 100  
77 24.4 19.4 29.0





#41

Methacrylonitrile

Concen: 21.142 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

Tgt Ion: 41 Resp: 28370

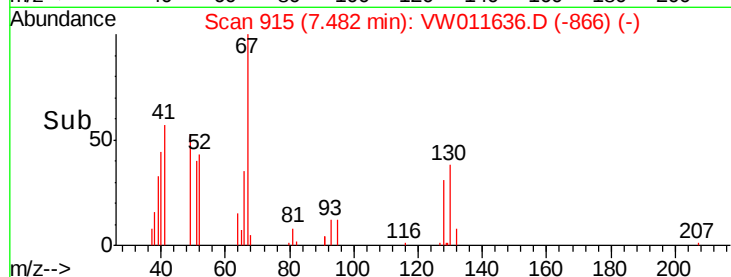
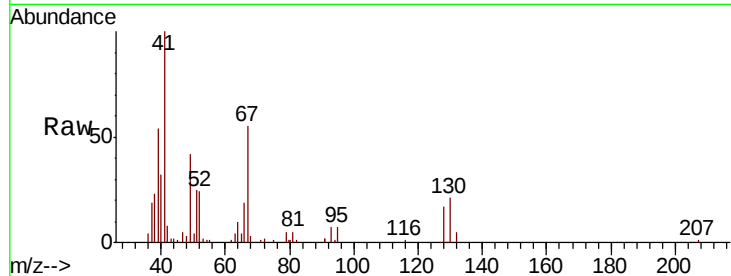
Ion Ratio Lower Upper

41 100

39 52.6 43.0 64.4

67 58.3 47.5 71.3

52 27.3 21.0 31.6

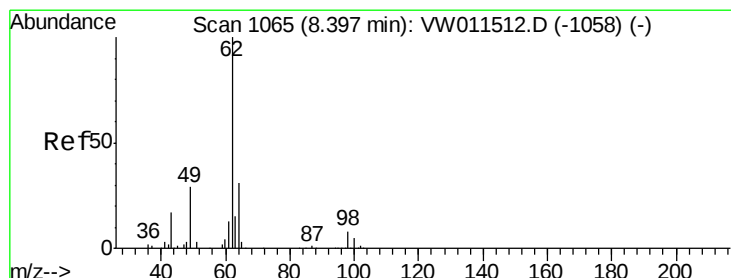
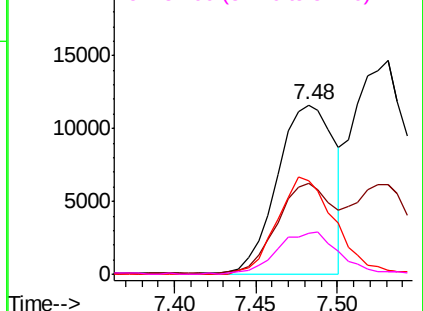


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 21.971 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW011636.D

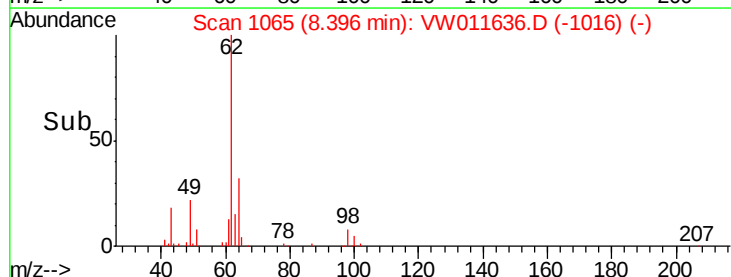
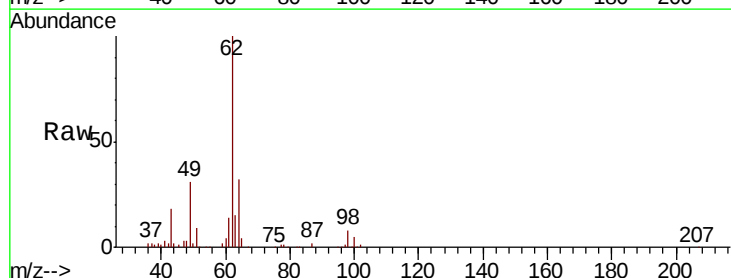
Acq: 02 Aug 2019 23:32

Tgt Ion: 62 Resp: 75180

Ion Ratio Lower Upper

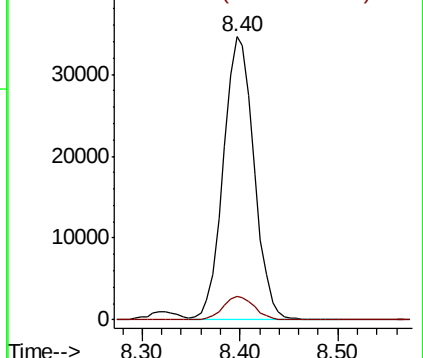
62 100

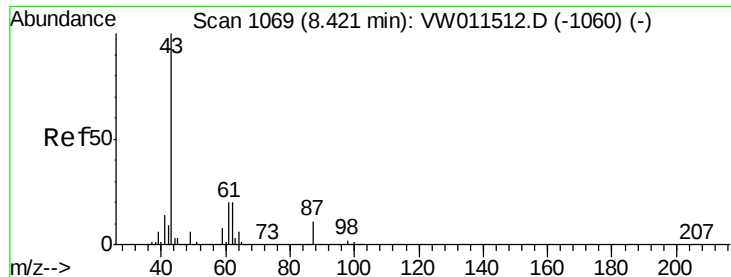
98 8.4 0.0 16.8



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 21.243 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

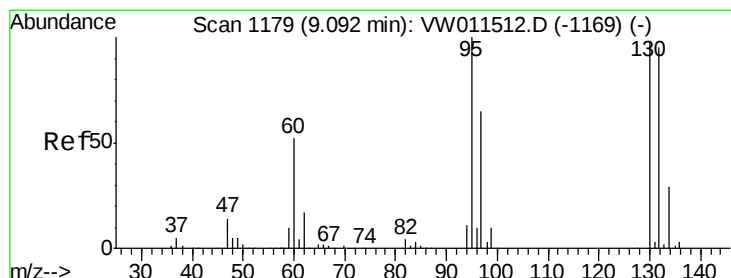
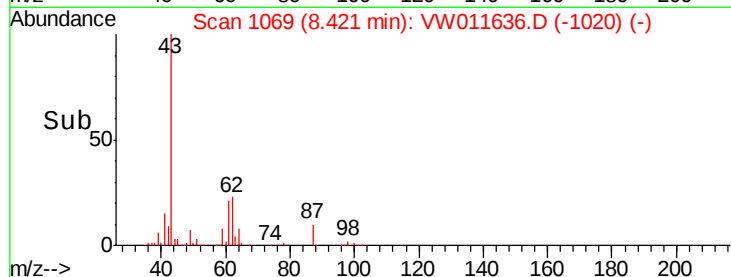
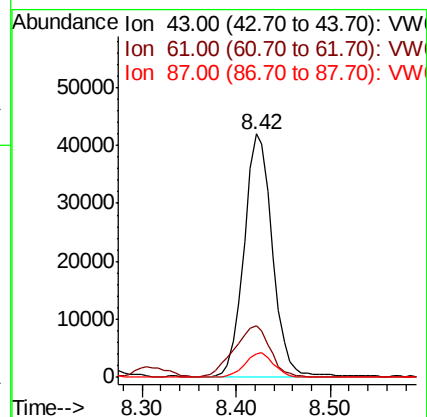
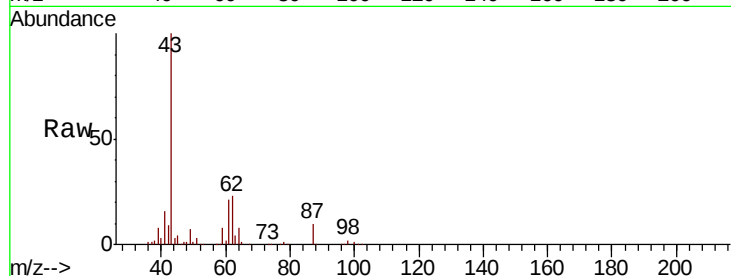
Tgt Ion: 43 Resp: 87702

Ion Ratio Lower Upper

43 100

61 27.5 21.5 32.3

87 10.4 8.4 12.6



#44

Trichloroethene

Concen: 20.207 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011636.D

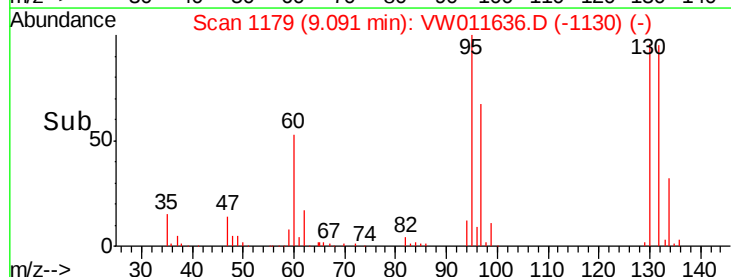
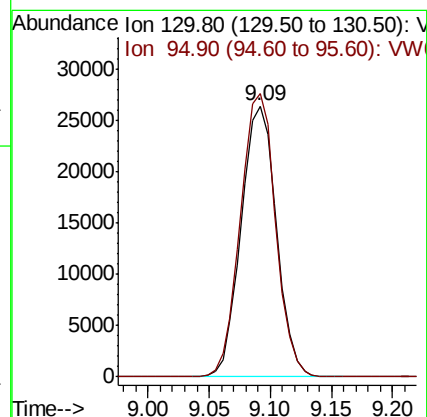
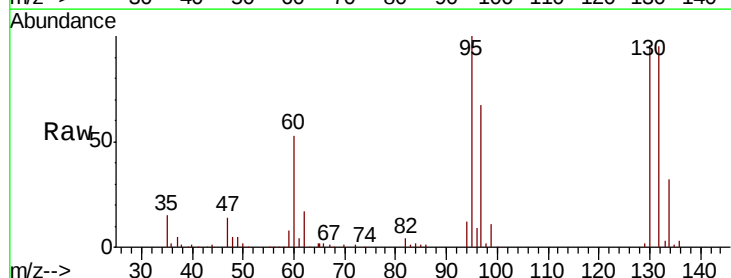
Acq: 02 Aug 2019 23:32

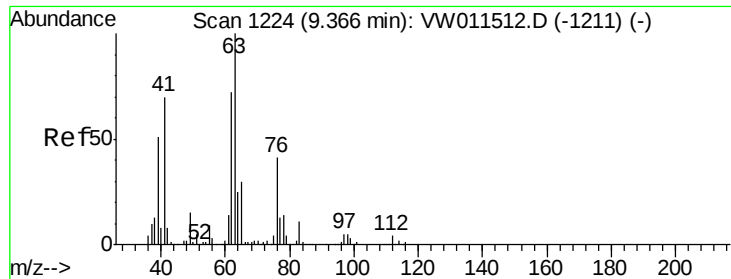
Tgt Ion: 130 Resp: 53080

Ion Ratio Lower Upper

130 100

95 104.6 0.0 204.8

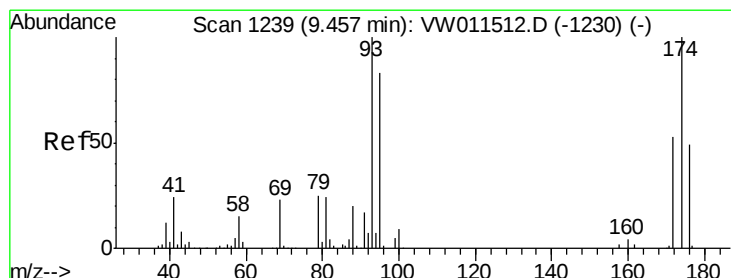
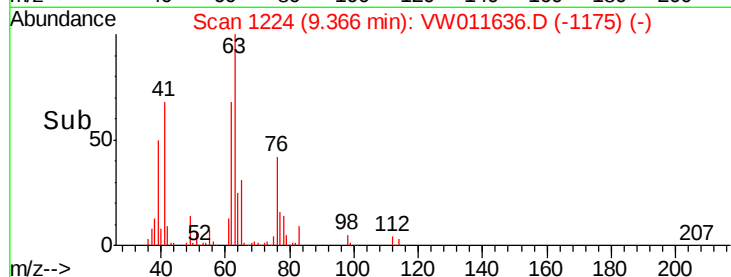
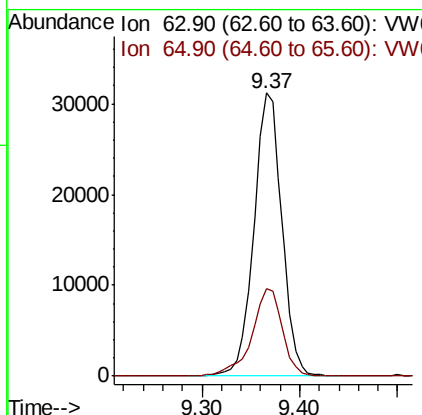
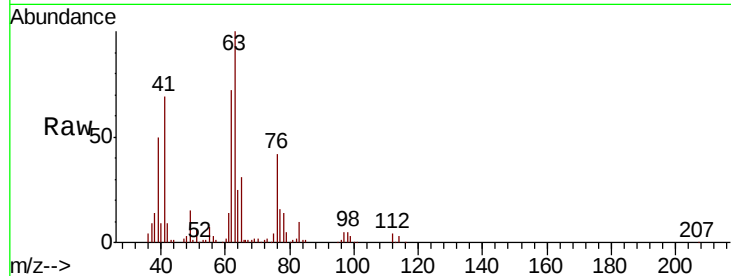




#45  
 1,2-Dichloropropane  
 Concen: 21.308 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

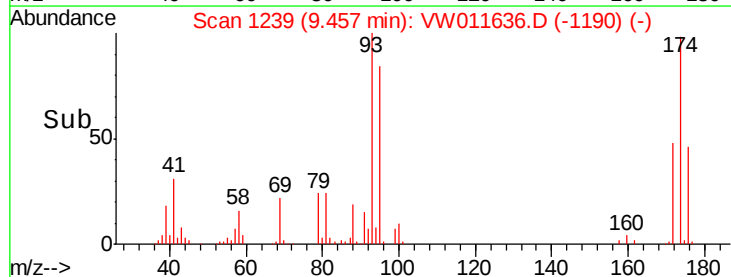
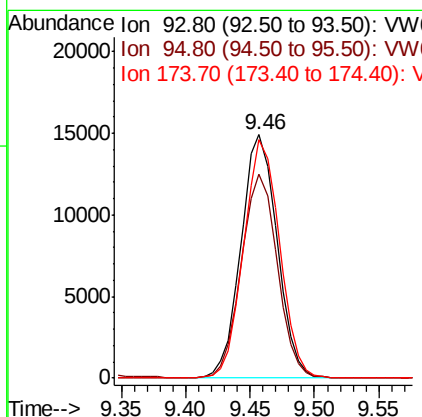
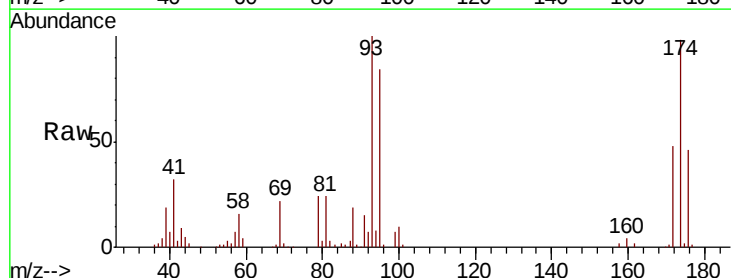
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

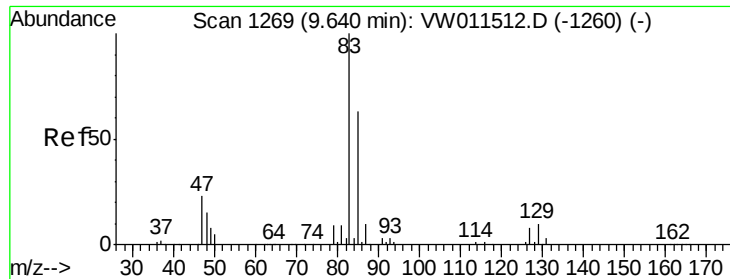
Tgt Ion: 63 Resp: 62312  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 24.2 36.4



#46  
 Dibromomethane  
 Concen: 21.779 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 93 Resp: 29069  
 Ion Ratio Lower Upper  
 93 100  
 95 83.2 66.2 99.2  
 174 96.9 78.2 117.4





#47

Bromodichloromethane

Concen: 21.224 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

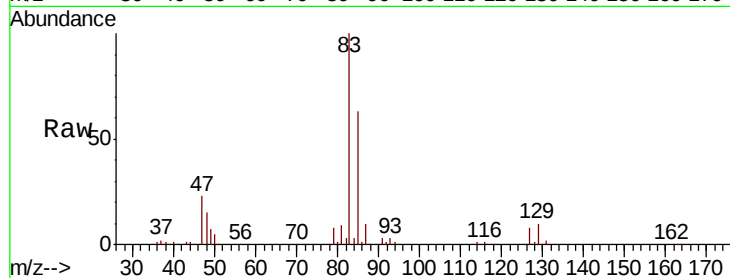
Tgt Ion: 83 Resp: 74309

Ion Ratio Lower Upper

83 100

85 62.8 50.5 75.7

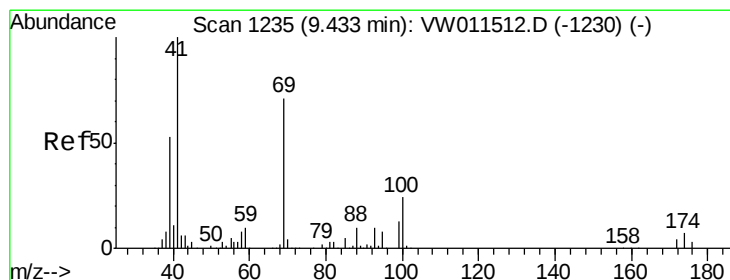
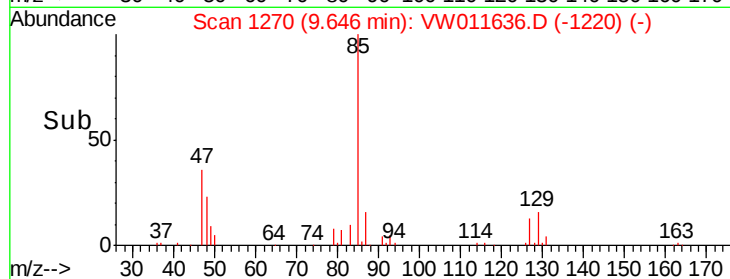
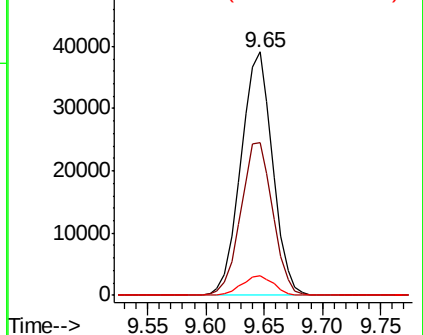
127 8.1 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 20.959 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

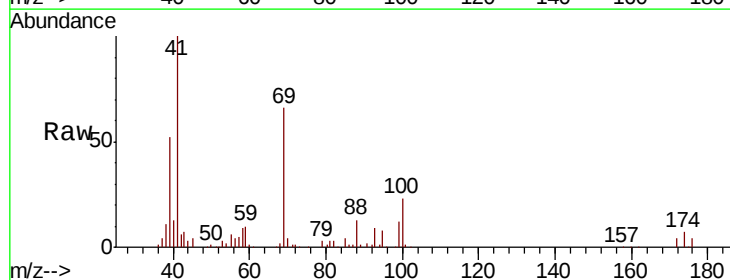
Tgt Ion: 41 Resp: 41565

Ion Ratio Lower Upper

41 100

69 71.9 57.1 85.7

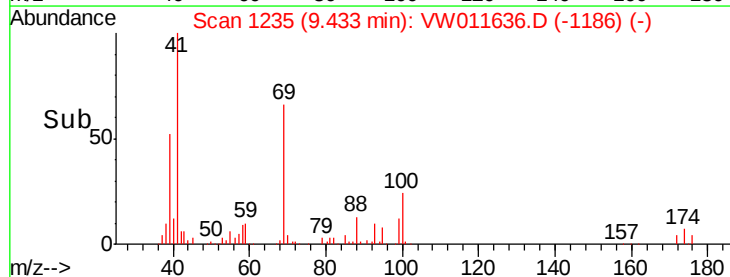
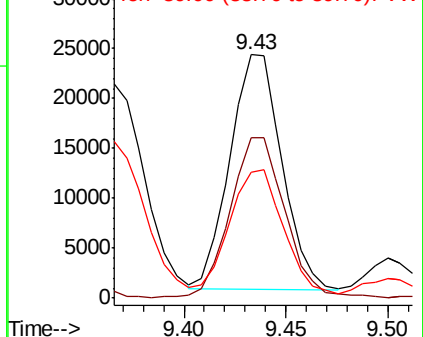
39 58.4 45.4 68.2

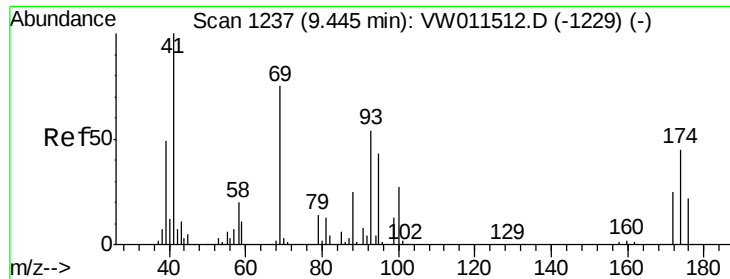


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

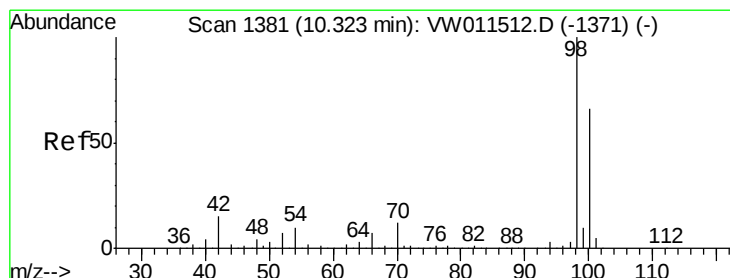
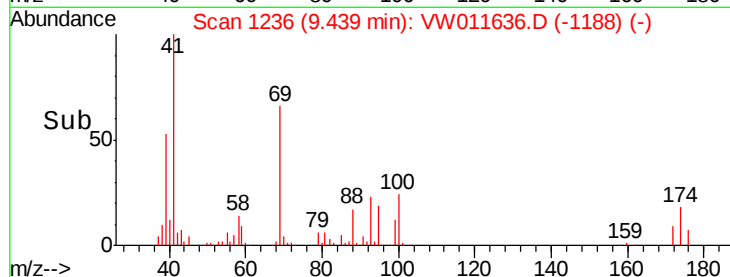
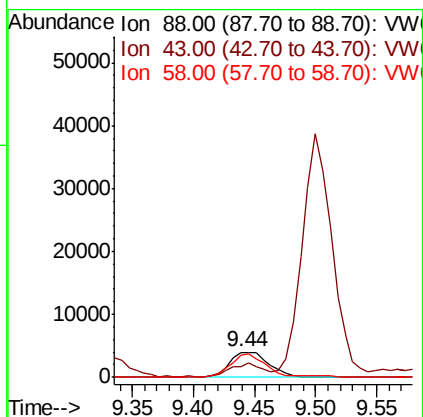
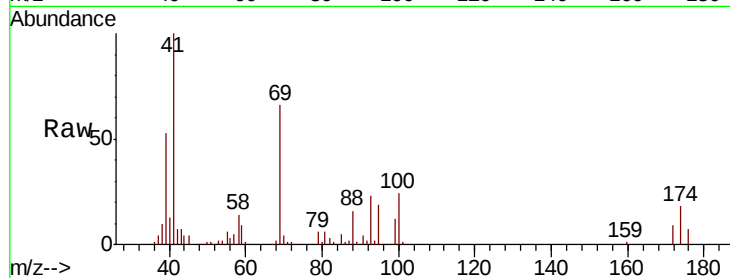




#49  
1,4-Dioxane  
Concen: 470.824 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. -0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

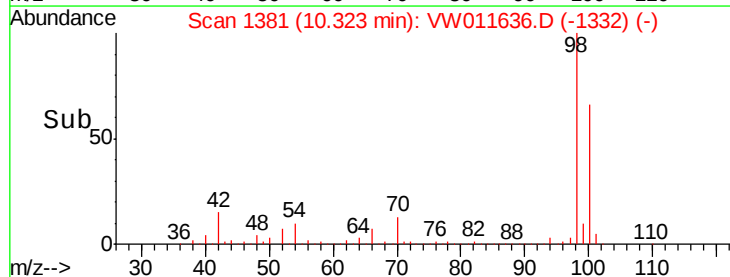
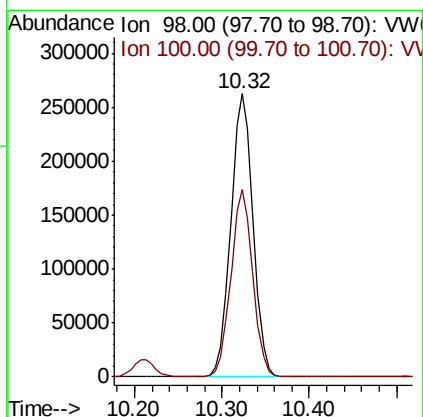
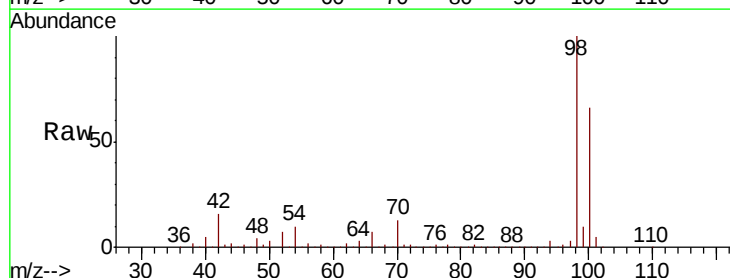
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion: 88 Resp: 9099  
Ion Ratio Lower Upper  
88 100  
43 43.0 34.0 51.0  
58 81.5 69.7 104.5



#50  
Toluene-d8  
Concen: 53.716 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 98 Resp: 462985  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.7 79.1

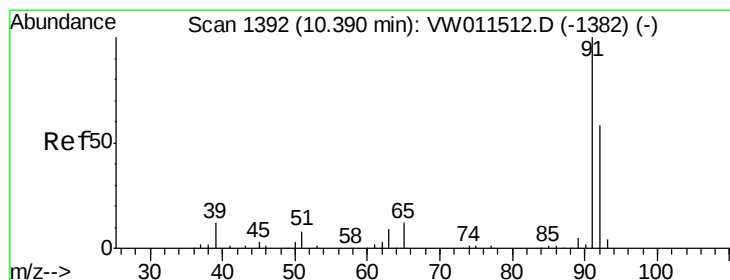
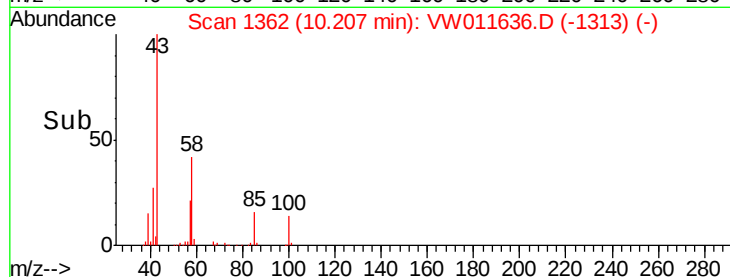
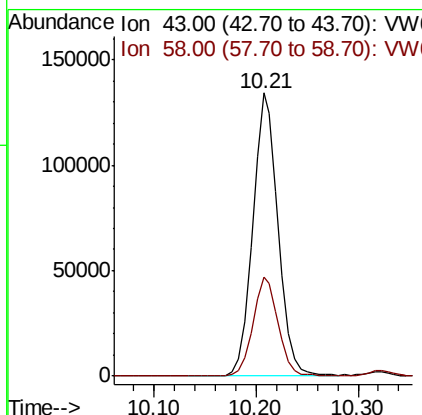
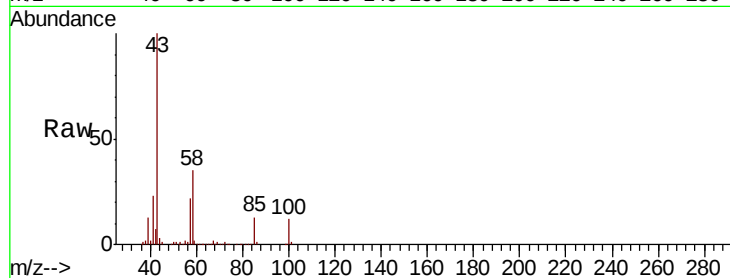




#51  
 4-Methyl-2-Pentanone  
 Concen: 107.558 ug/l  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

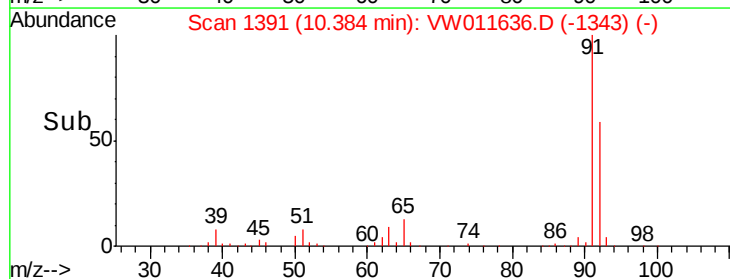
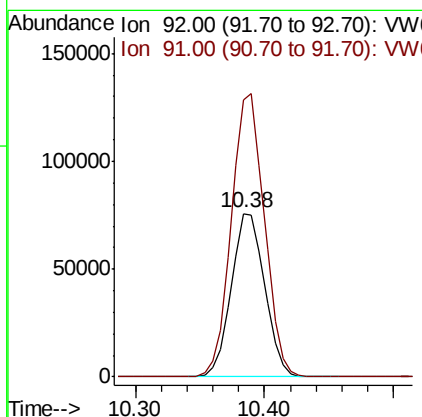
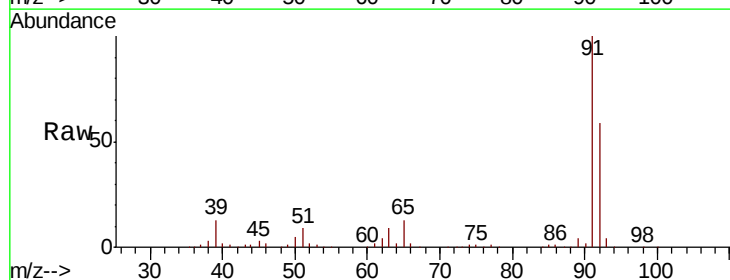
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VW0803SBS01

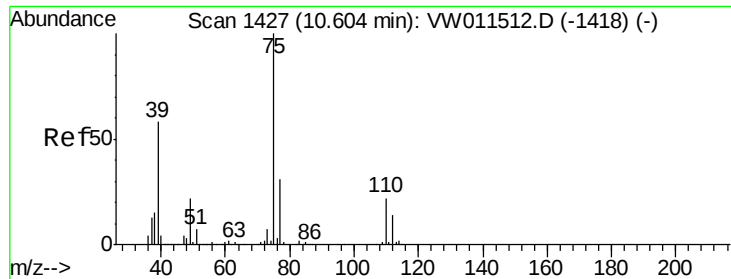
Tgt Ion: 43 Resp: 230969  
 Ion Ratio Lower Upper  
 43 100  
 58 35.0 28.2 42.2



#52  
 Toluene  
 Concen: 20.755 ug/l  
 RT: 10.38 min Scan# 1391  
 Delta R.T. -0.01 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 92 Resp: 136988  
 Ion Ratio Lower Upper  
 92 100  
 91 170.9 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 20.152 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

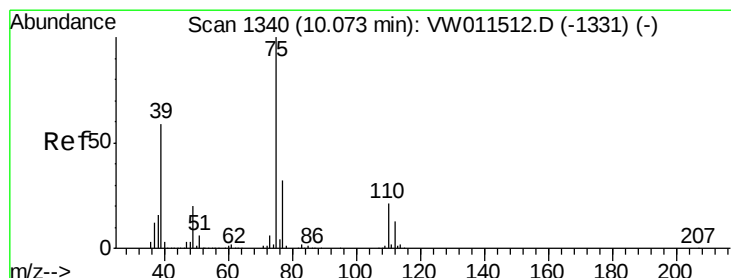
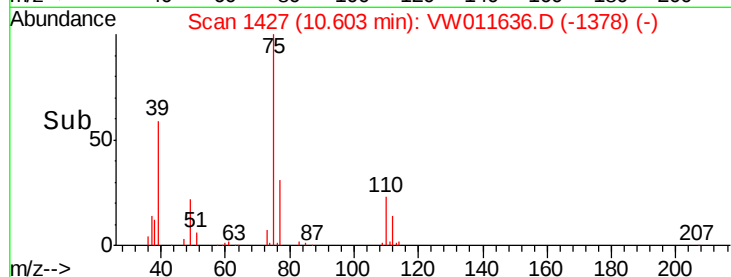
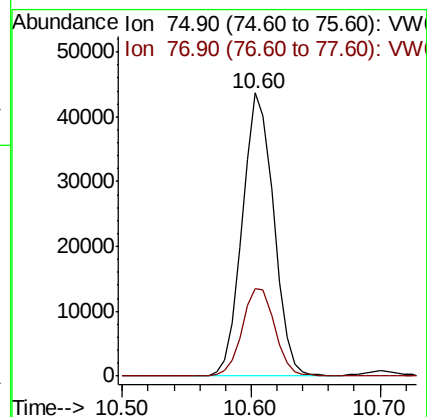
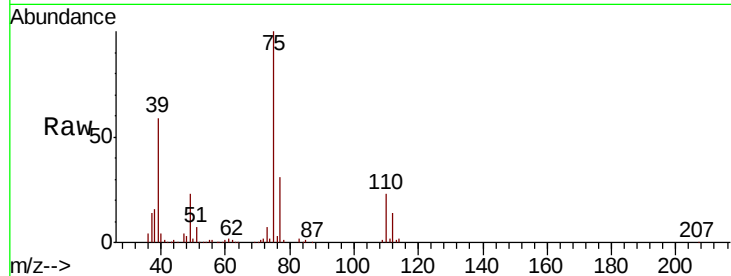
VW0803SBS01

Tgt Ion: 75 Resp: 73703

Ion Ratio Lower Upper

75 100

77 30.9 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 20.482 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

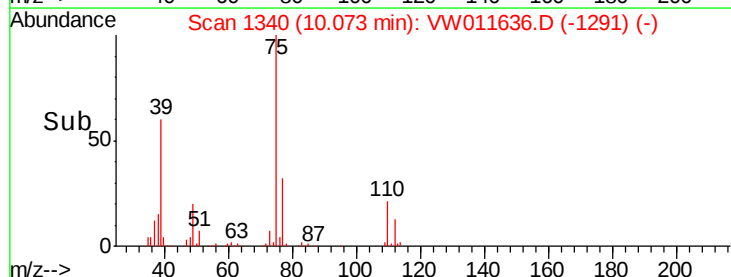
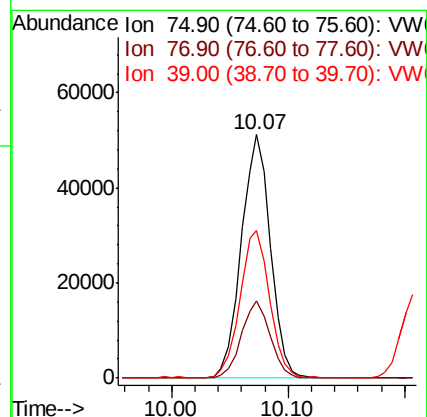
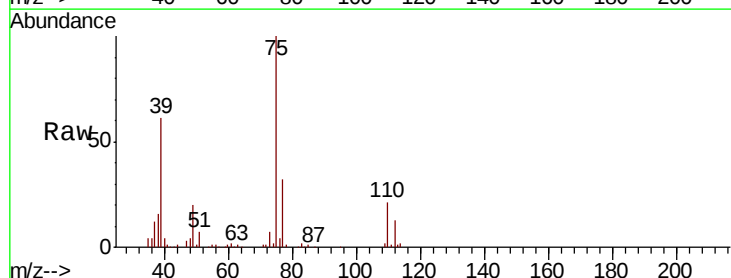
Tgt Ion: 75 Resp: 89067

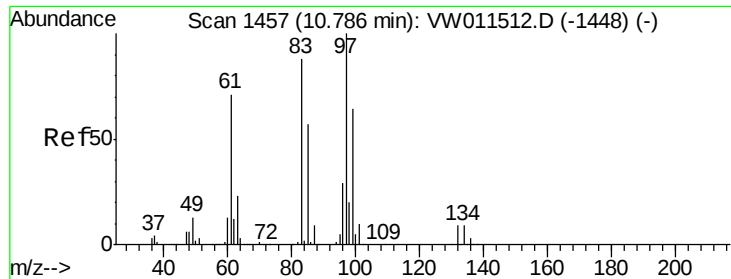
Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

39 60.5 47.0 70.4

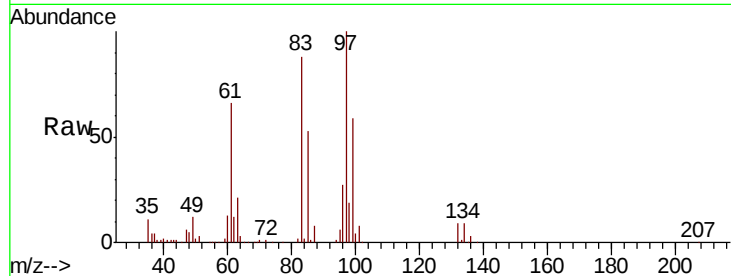




#55  
 1,1,2-Trichloroethane  
 Concen: 21.776 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 41239 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.8  | 70.5  | 105.7 |
| 85       | 53.1  | 45.8  | 68.6  |
| 99       | 58.7  | 51.0  | 76.4  |



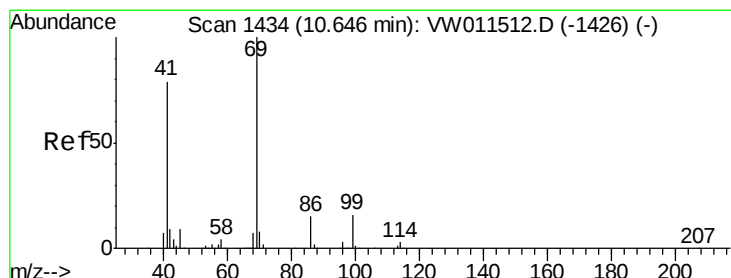
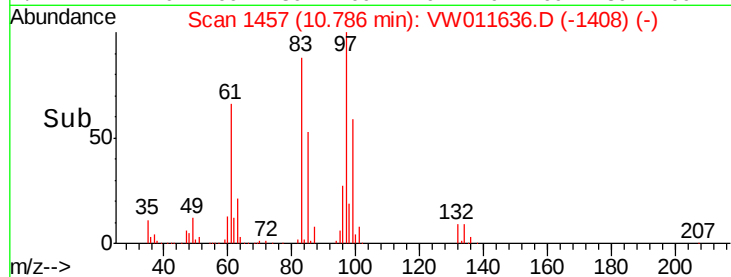
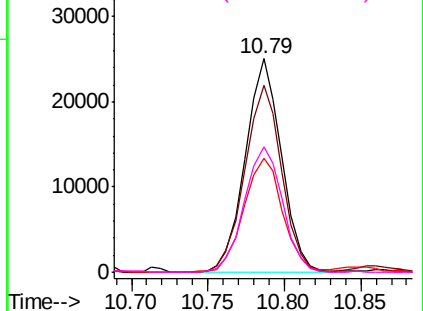
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

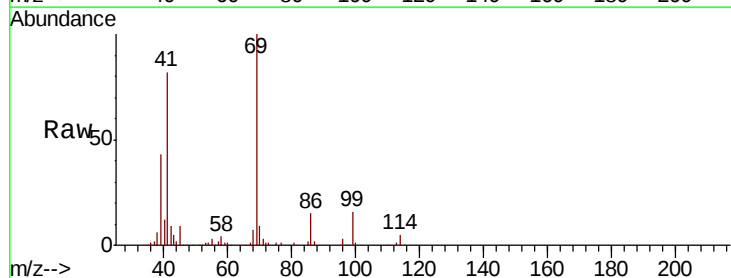
Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56  
 Ethyl methacrylate  
 Concen: 21.128 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 58548 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 83.1  | 66.6  | 99.8  |
| 39       | 38.7  | 30.3  | 45.5  |

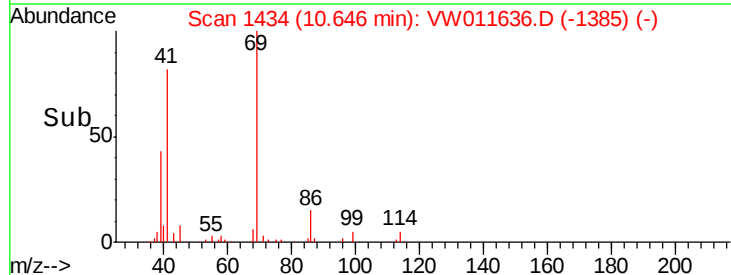
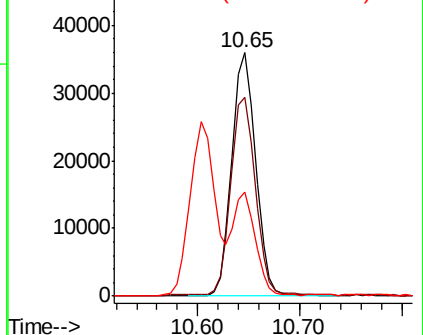


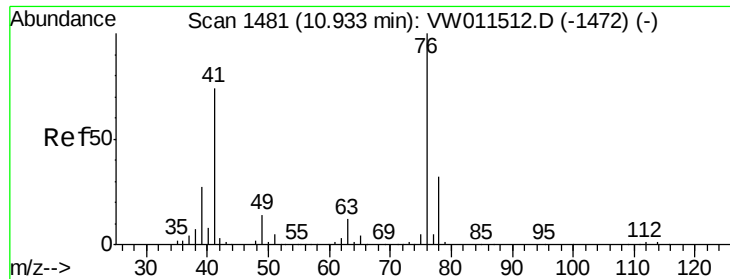
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

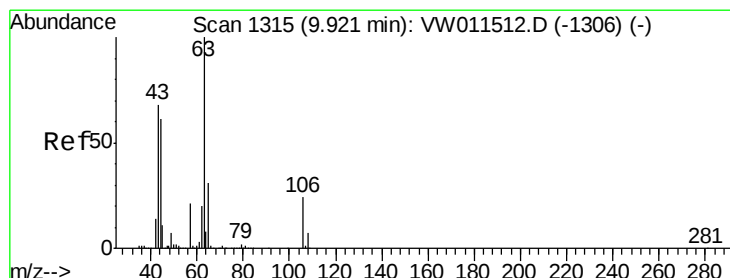
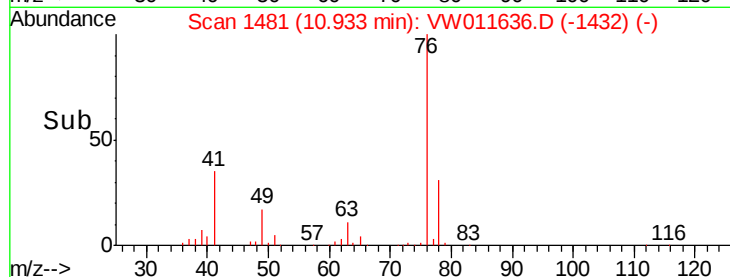
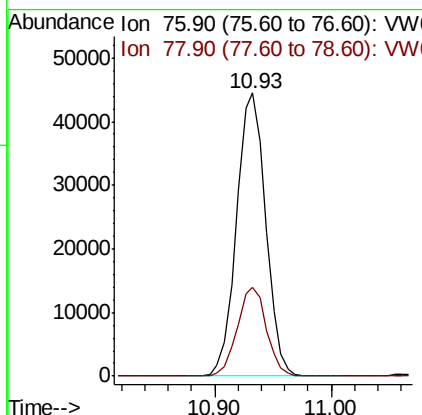
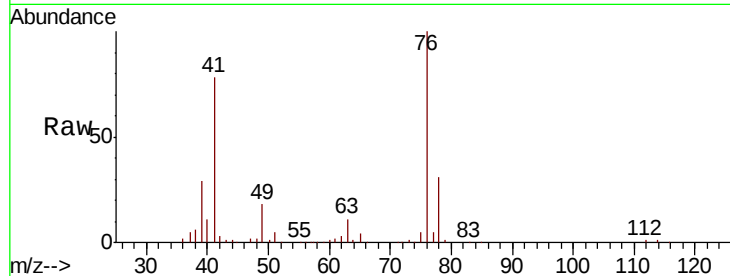




#57  
 1,3-Dichloropropane  
 Concen: 21.678 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

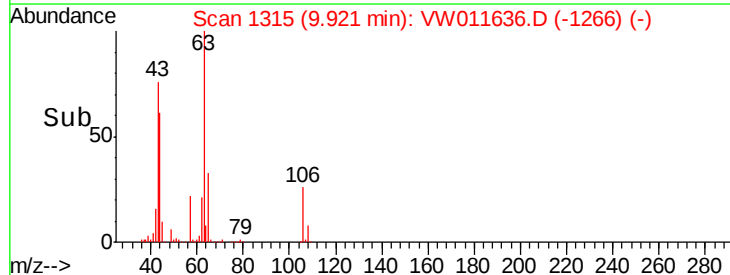
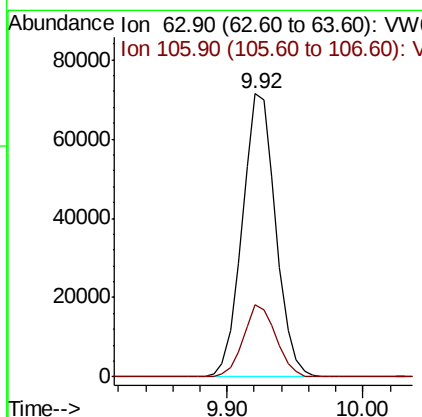
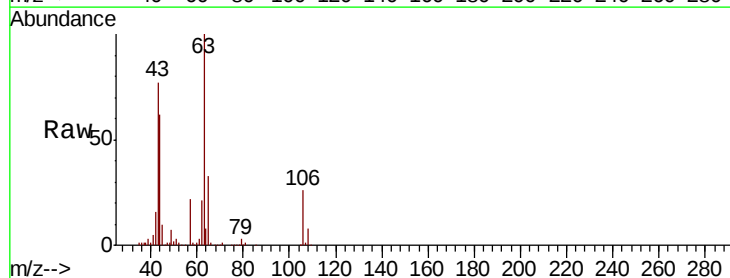
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

Tgt Ion: 76 Resp: 77667  
 Ion Ratio Lower Upper  
 76 100  
 78 31.6 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 97.544 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 63 Resp: 122732  
 Ion Ratio Lower Upper  
 63 100  
 106 24.9 19.7 29.5

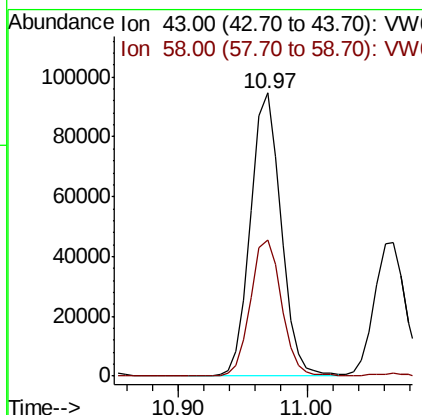
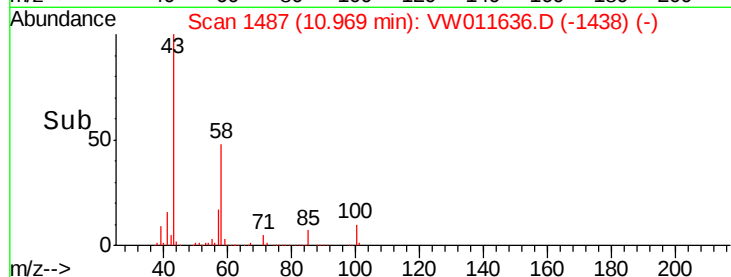
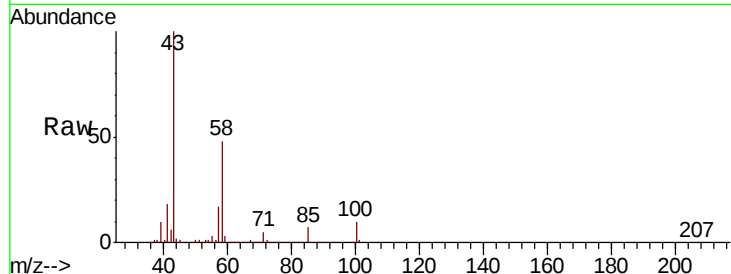




#59  
2-Hexanone  
Concen: 102.082 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

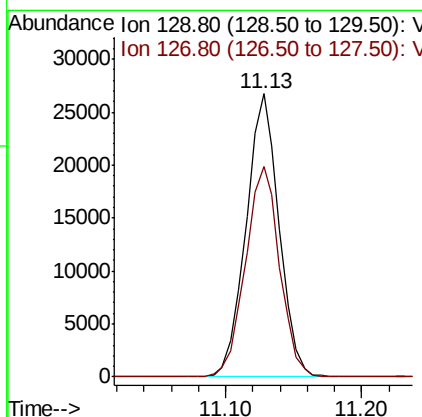
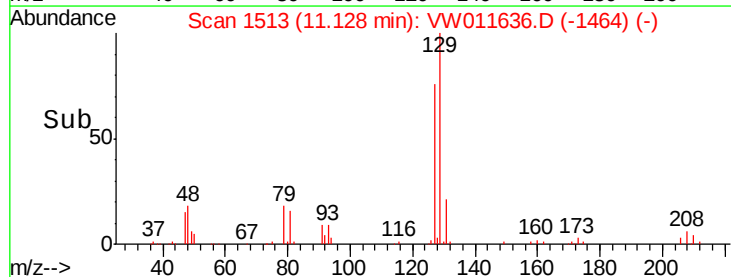
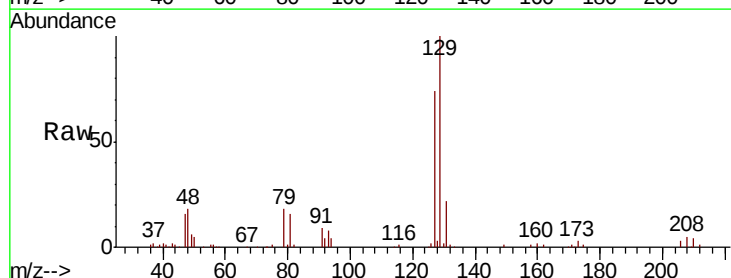
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0803SBS01

Tgt Ion: 43 Resp: 154777  
Ion Ratio Lower Upper  
43 100  
58 49.0 24.3 72.9



#60  
Dibromochloromethane  
Concen: 21.532 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 129 Resp: 45262  
Ion Ratio Lower Upper  
129 100  
127 77.1 38.9 116.7

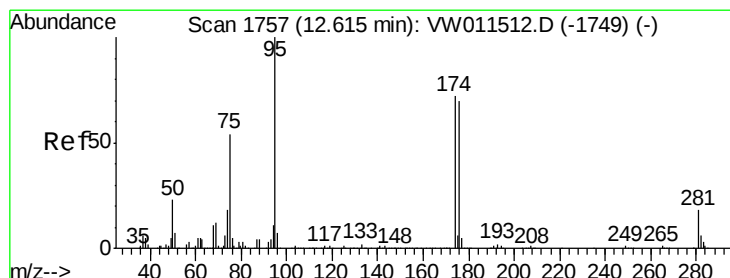
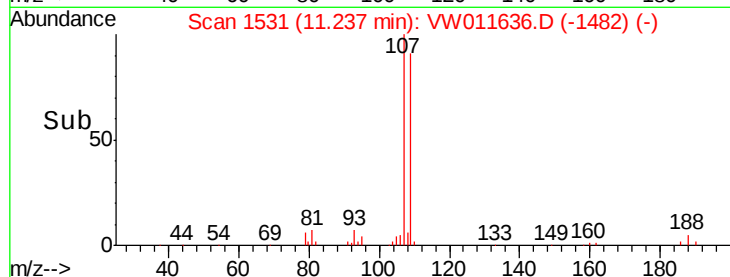
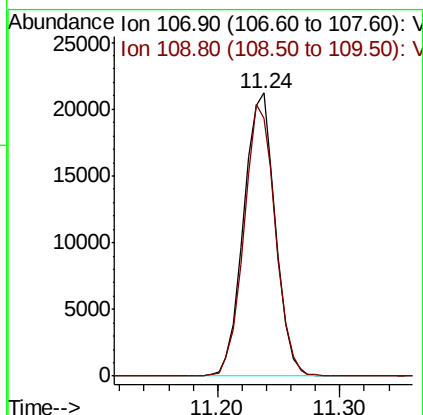
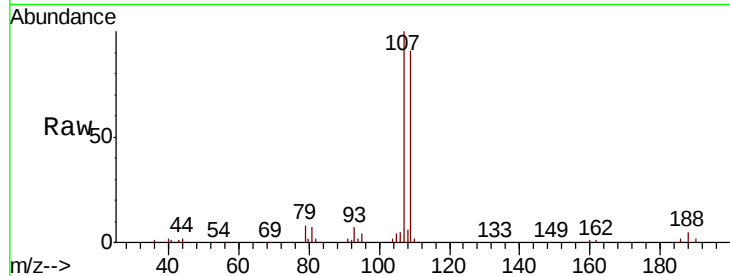




#61  
 1,2-Dibromoethane  
 Concen: 21.251 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

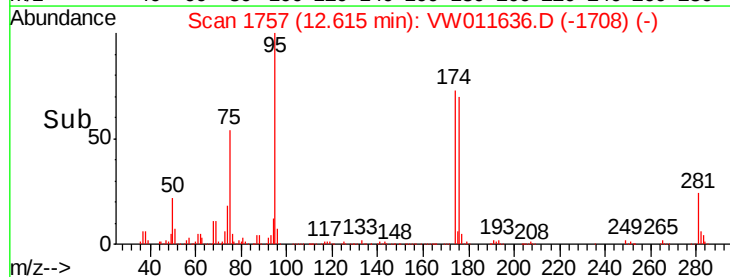
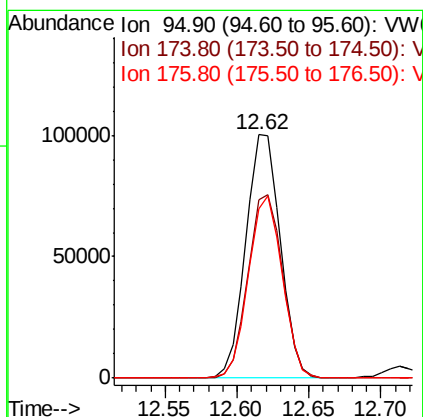
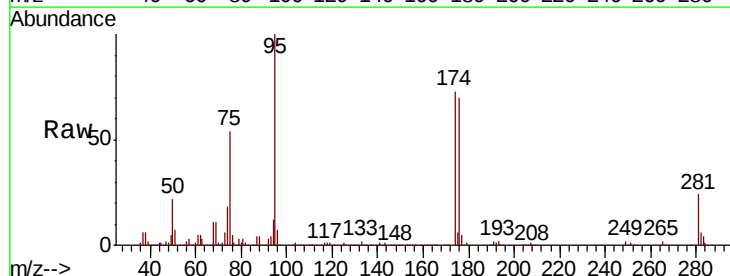
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

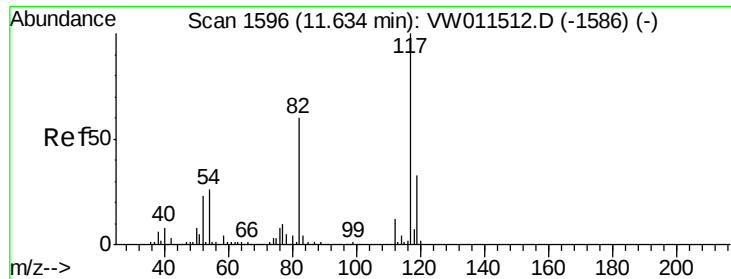
Tgt Ion: 107 Resp: 38084  
 Ion Ratio Lower Upper  
 107 100  
 109 95.0 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 54.097 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 95 Resp: 166236  
 Ion Ratio Lower Upper  
 95 100  
 174 75.7 0.0 150.2  
 176 73.2 0.0 144.4

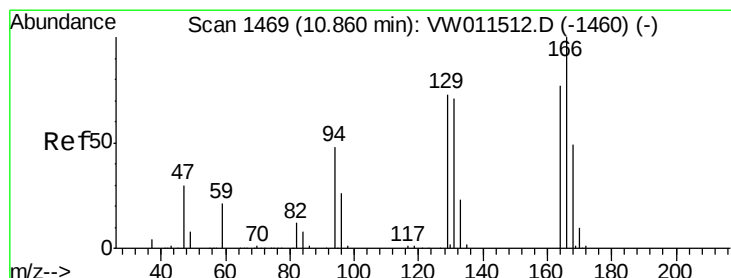
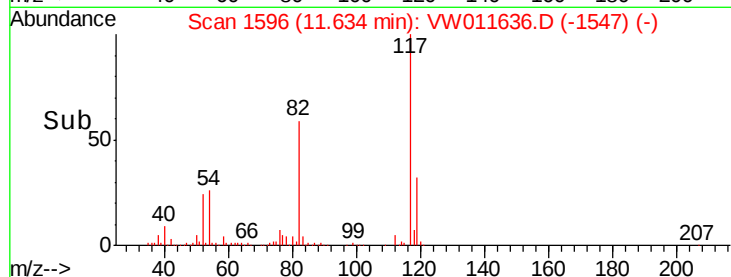
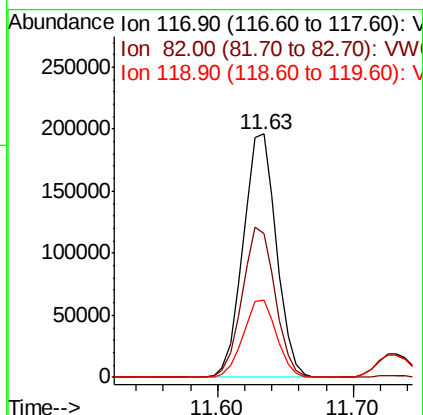
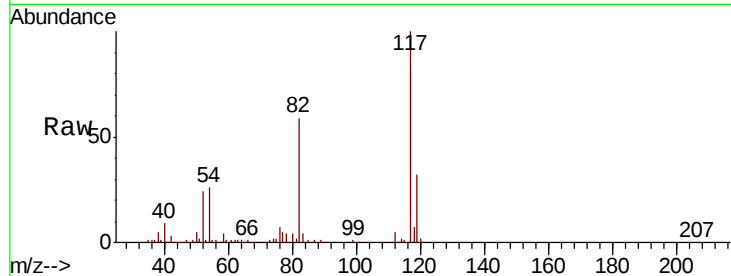




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

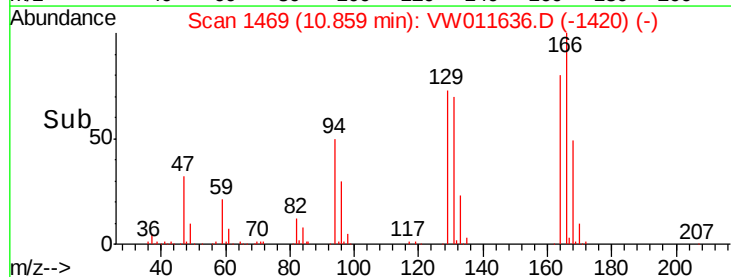
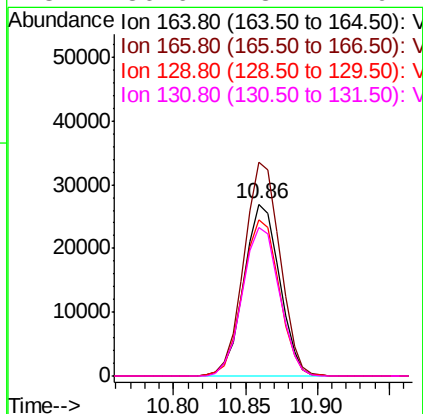
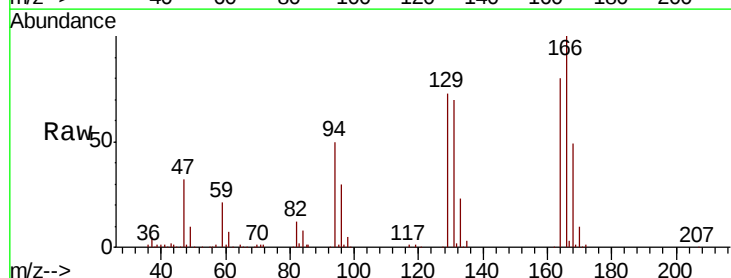
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

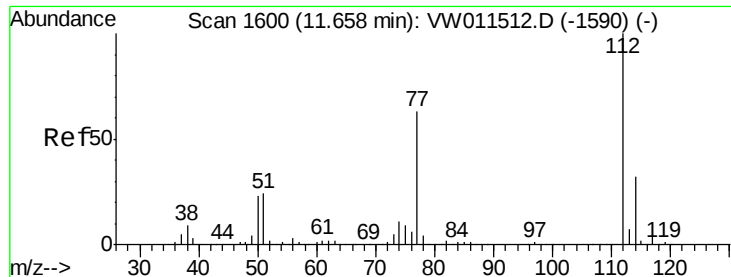
Tgt Ion:117 Resp: 335250  
Ion Ratio Lower Upper  
117 100  
82 59.1 47.9 71.9  
119 31.9 26.2 39.2



#64  
Tetrachloroethene  
Concen: 21.178 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion:164 Resp: 46228  
Ion Ratio Lower Upper  
164 100  
166 124.4 103.5 155.3  
129 90.8 75.2 112.8  
131 86.6 73.4 110.2

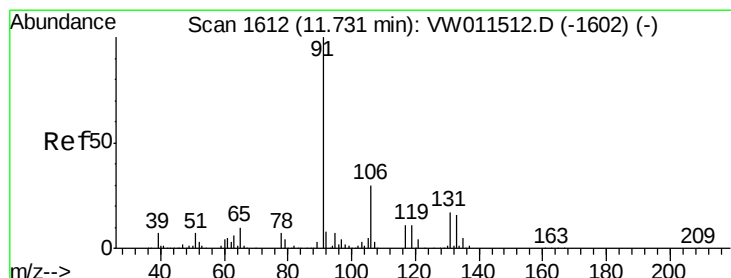
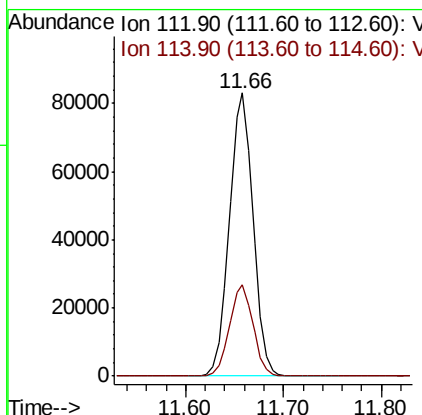
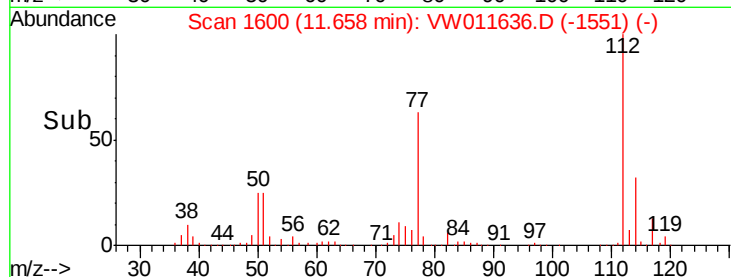
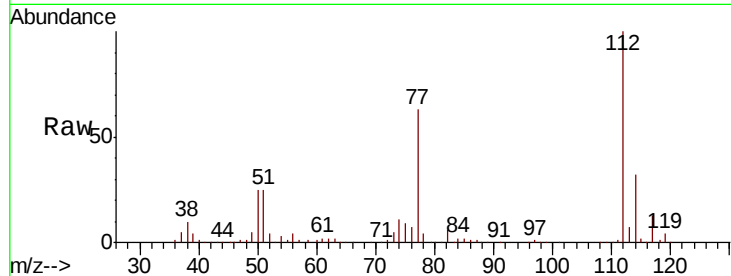




#65  
Chlorobenzene  
Concen: 20.629 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

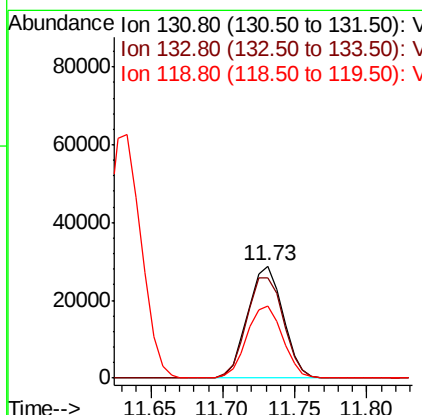
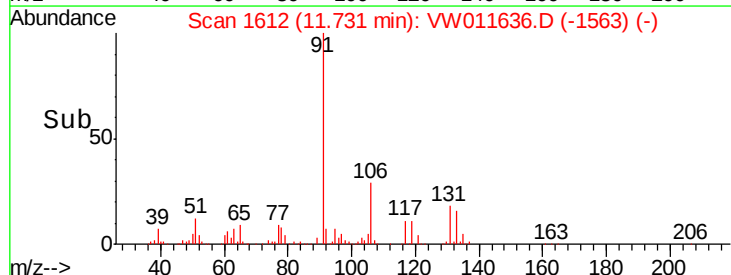
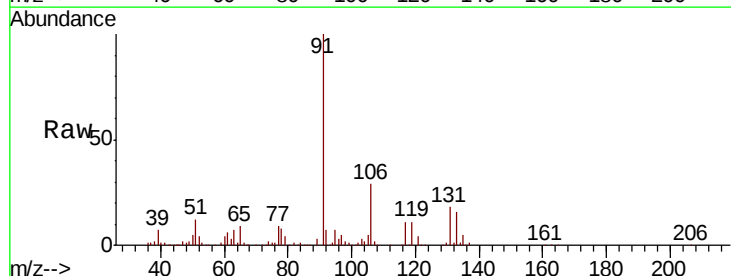
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion:112 Resp: 139042  
Ion Ratio Lower Upper  
112 100  
114 32.3 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.862 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion:131 Resp: 48979  
Ion Ratio Lower Upper  
131 100  
133 94.3 47.4 142.2  
119 65.1 32.3 96.9

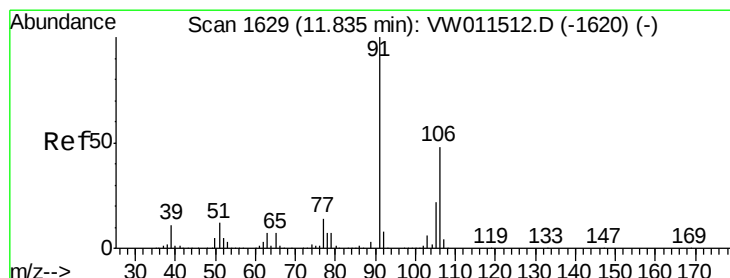
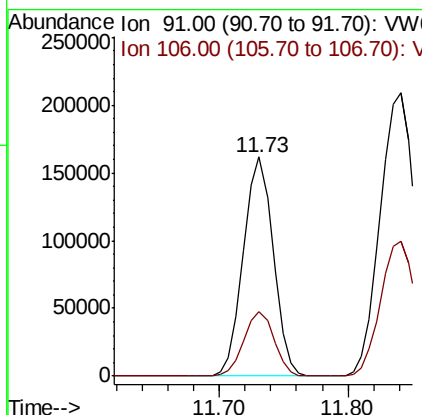
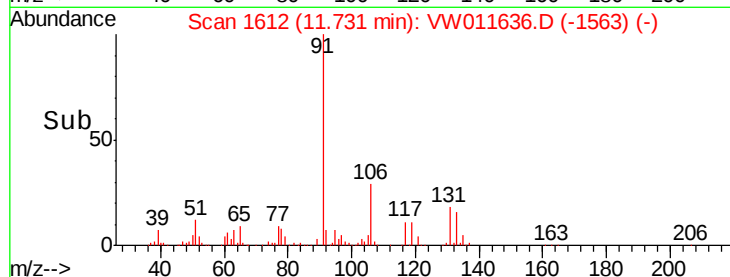
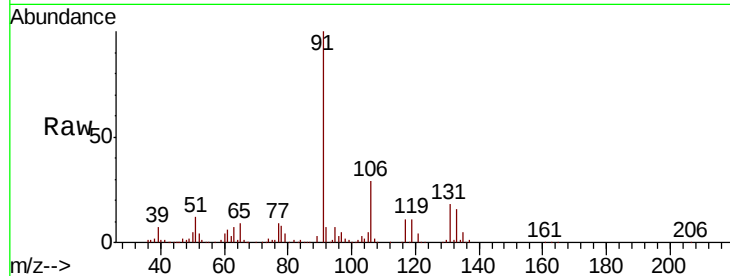




#67  
Ethyl Benzene  
Concen: 20.265 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

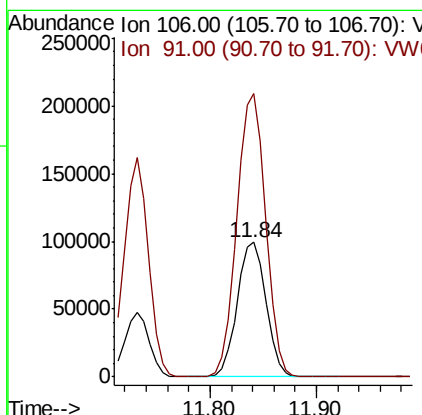
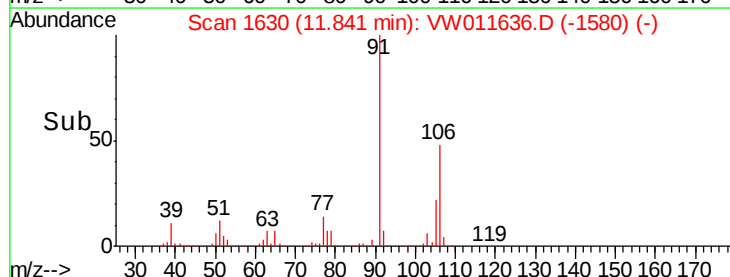
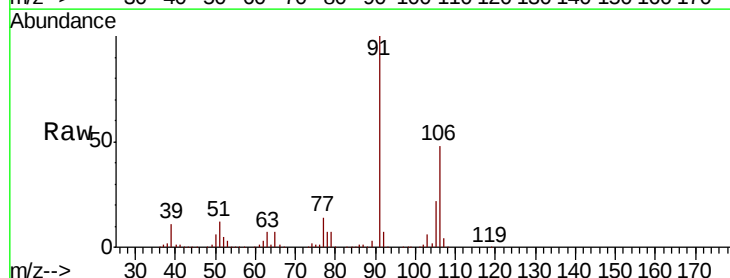
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion: 91 Resp: 260136  
Ion Ratio Lower Upper  
91 100  
106 29.4 23.8 35.6



#68  
m/p-Xylenes  
Concen: 40.477 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion: 106 Resp: 188963  
Ion Ratio Lower Upper  
106 100  
91 210.2 168.2 252.2

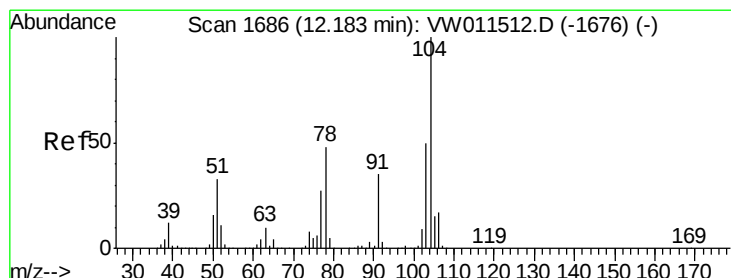
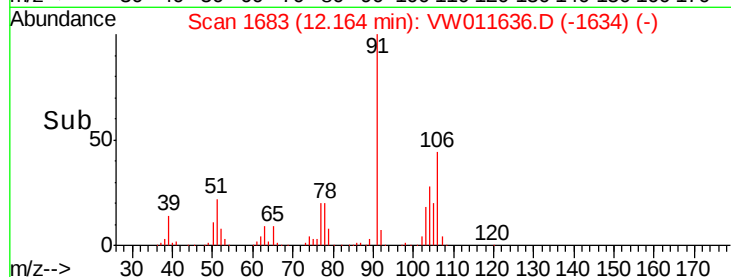
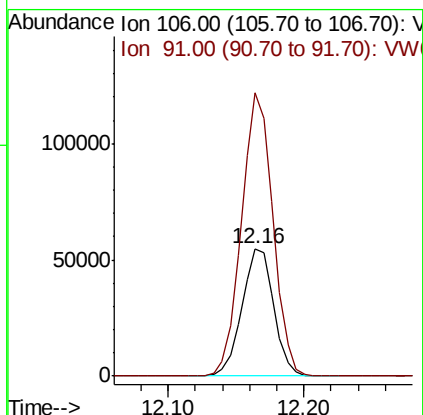
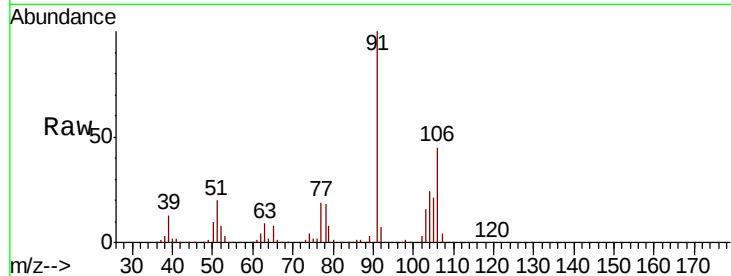




#69  
o-Xylene  
Concen: 20.577 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

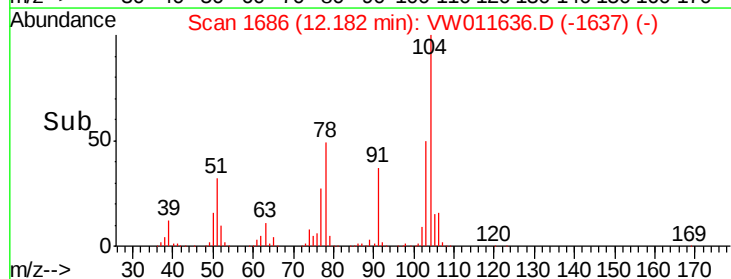
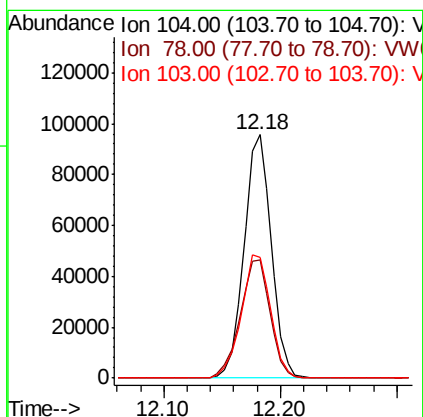
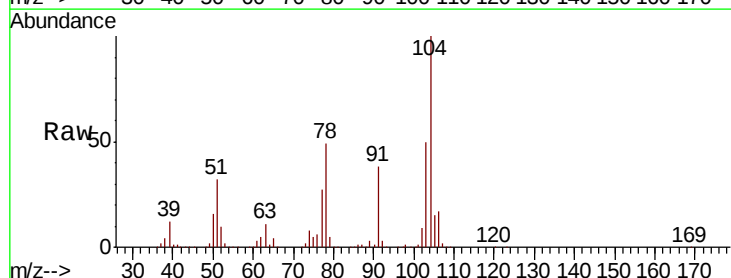
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0803SBS01

Tgt Ion:106 Resp: 89265  
Ion Ratio Lower Upper  
106 100  
91 220.7 110.5 331.5



#70  
Styrene  
Concen: 20.813 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW011636.D  
Acq: 02 Aug 2019 23:32

Tgt Ion:104 Resp: 156109  
Ion Ratio Lower Upper  
104 100  
78 53.8 43.4 65.0  
103 54.9 43.9 65.9





#71

Bromoform

Concen: 20.972 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

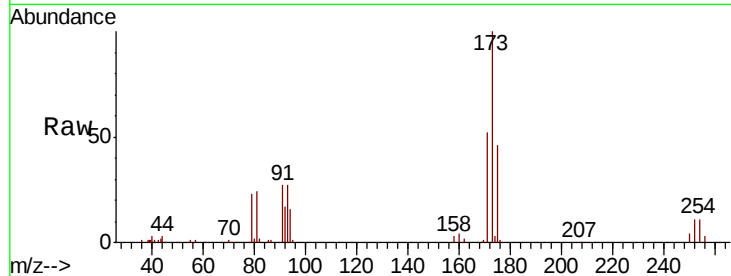
Tgt Ion:173 Resp: 25104

Ion Ratio Lower Upper

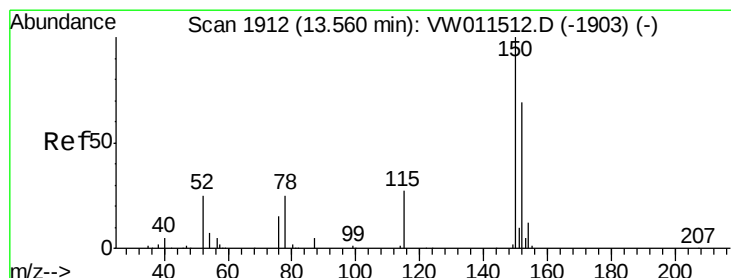
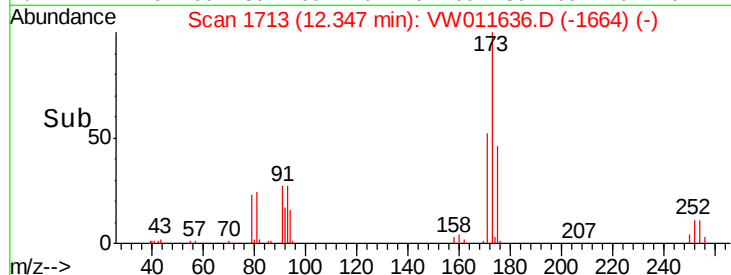
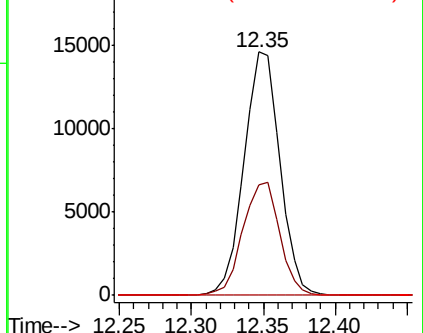
173 100

175 47.8 23.6 71.0

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

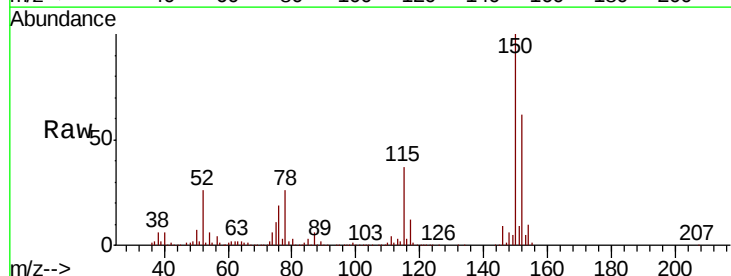
Tgt Ion:152 Resp: 160860

Ion Ratio Lower Upper

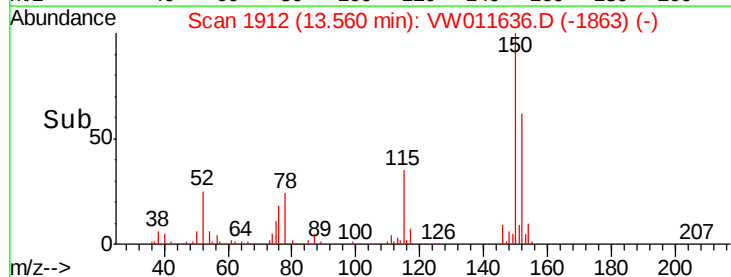
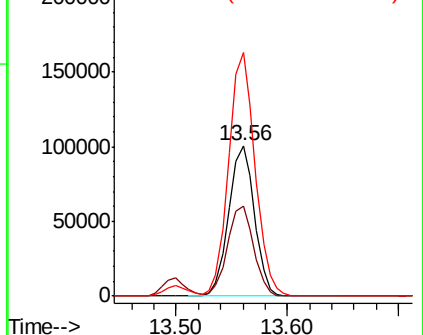
152 100

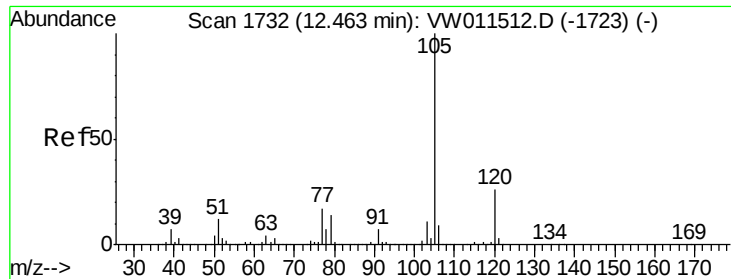
115 61.0 30.5 91.5

150 166.1 0.0 352.6



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





#73

Isopropylbenzene

Concen: 20.304 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

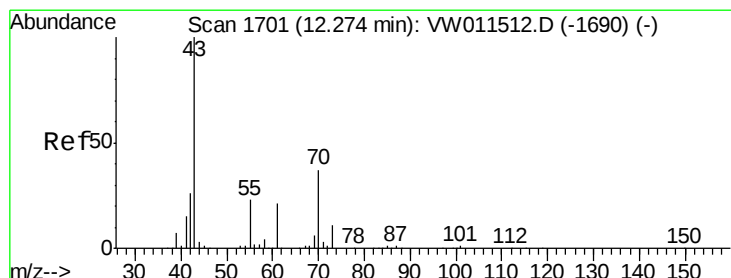
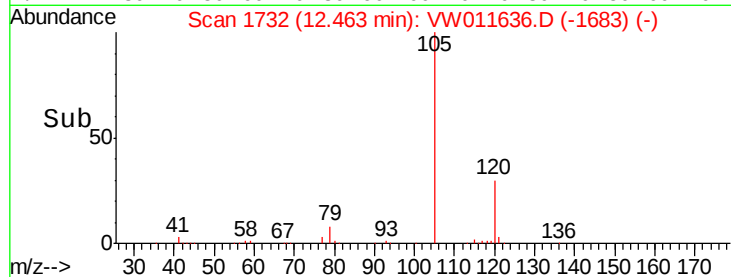
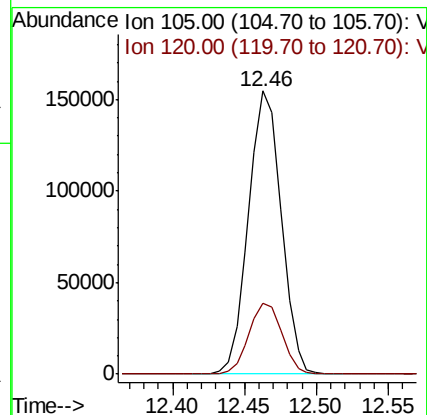
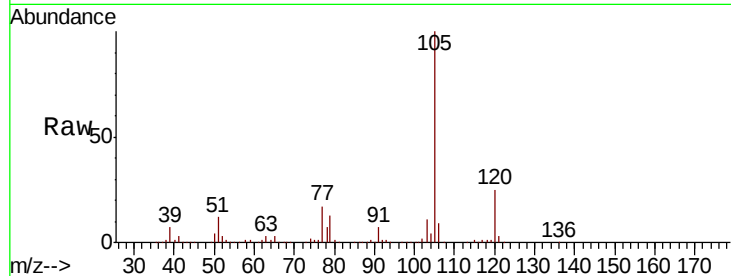
VW0803SBS01

Tgt Ion:105 Resp: 243663

Ion Ratio Lower Upper

105 100

120 25.3 12.9 38.7



#74

N-ethyl acetate

Concen: 21.336 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Tgt Ion: 43 Resp: 80161

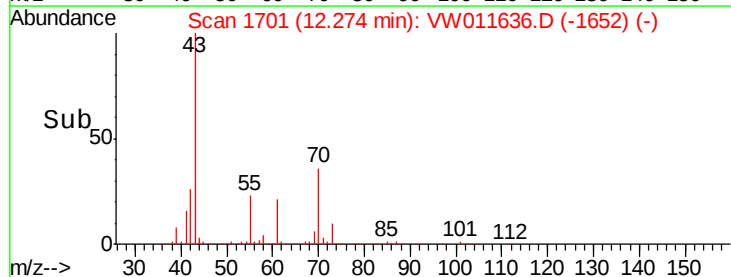
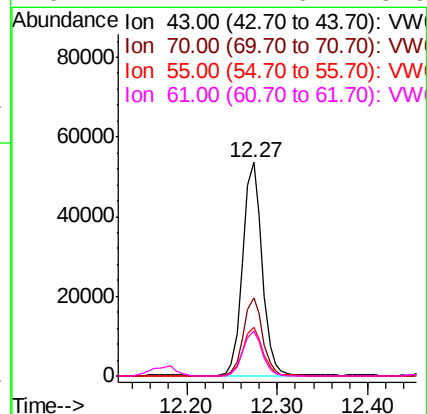
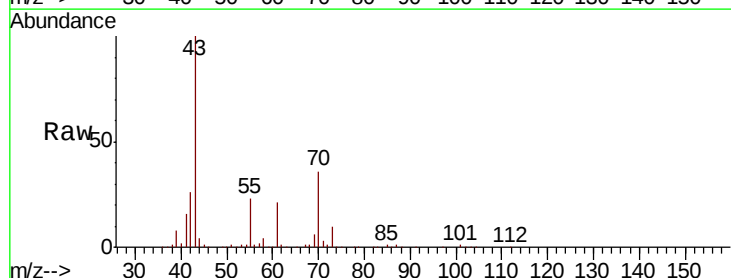
Ion Ratio Lower Upper

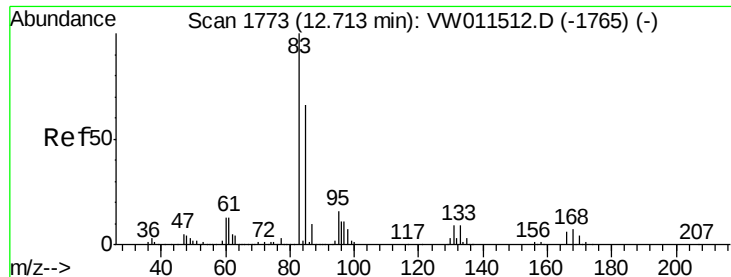
43 100

70 36.1 28.6 43.0

55 23.6 17.8 26.8

61 21.2 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.706 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

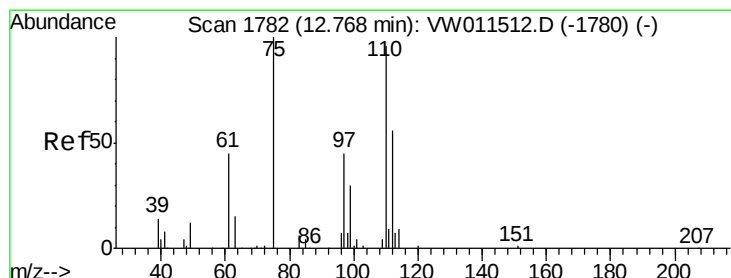
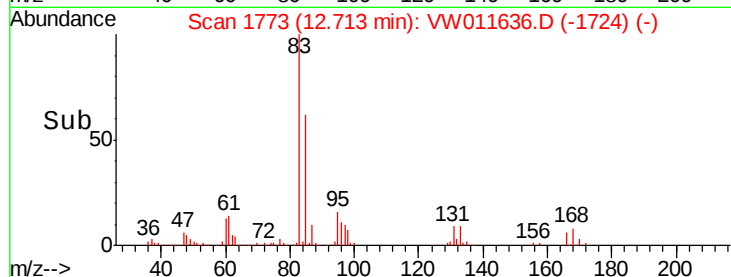
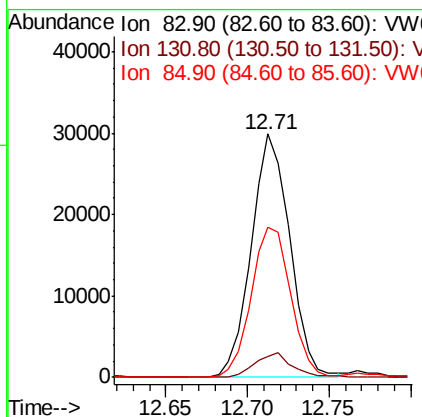
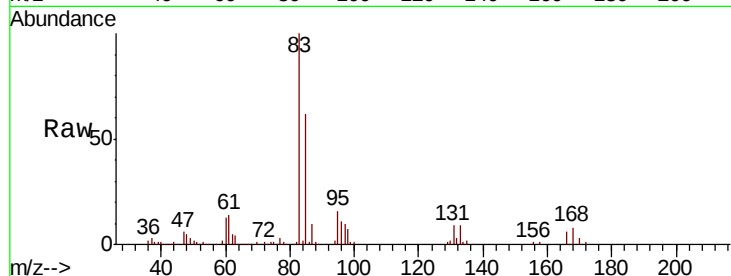
Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 48996 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 9.9   | 4.9   | 14.6  |
| 85       | 63.6  | 31.8  | 95.4  |



#76

1,2,3-Trichloropropane

Concen: 37.308 ug/l

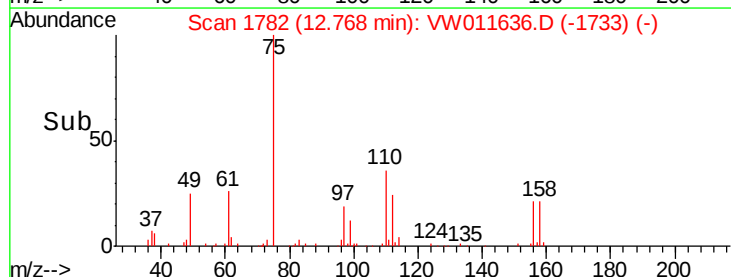
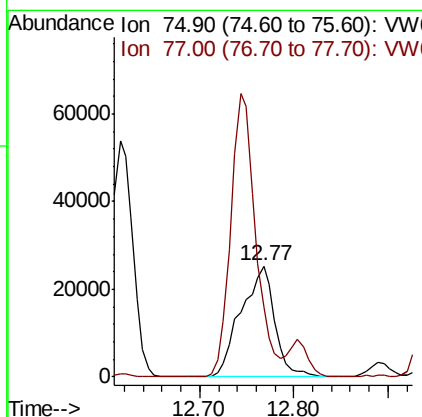
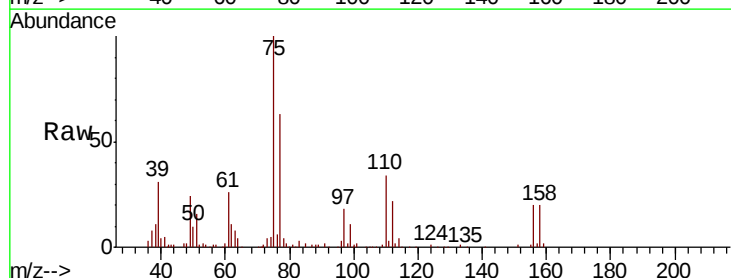
RT: 12.77 min Scan# 1782

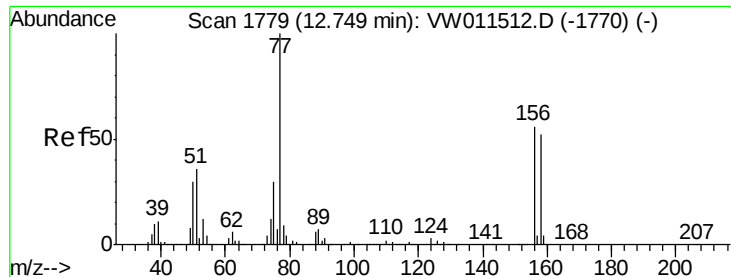
Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 63502 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 0.0   |





#77

Bromobenzene

Concen: 20.492 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

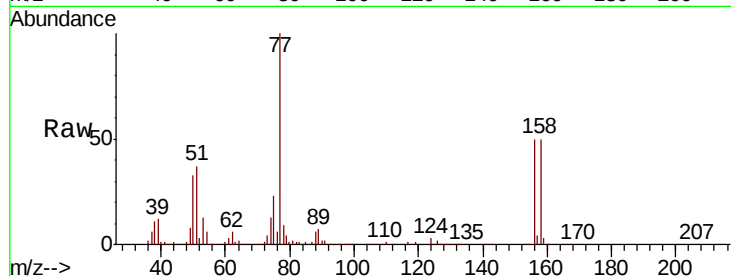
Tgt Ion:156 Resp: 54354

Ion Ratio Lower Upper

156 100

77 219.4 106.5 319.4

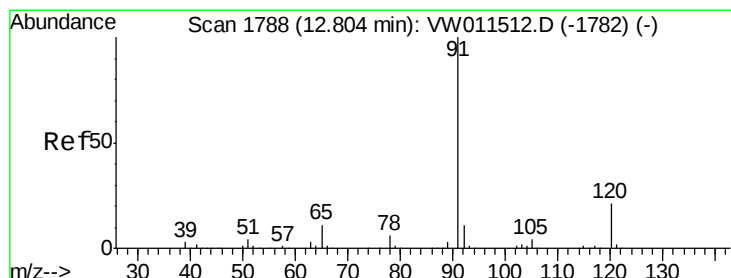
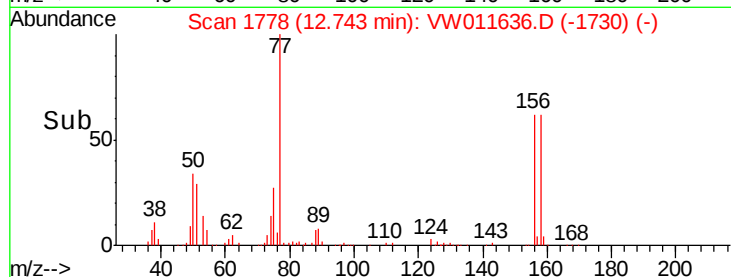
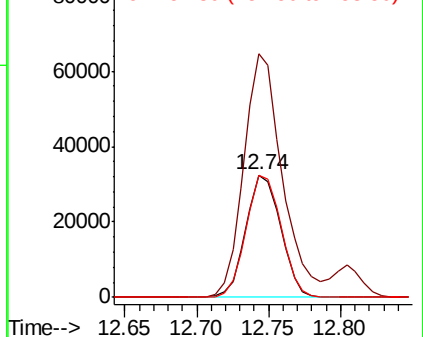
158 100.7 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.192 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW011636.D

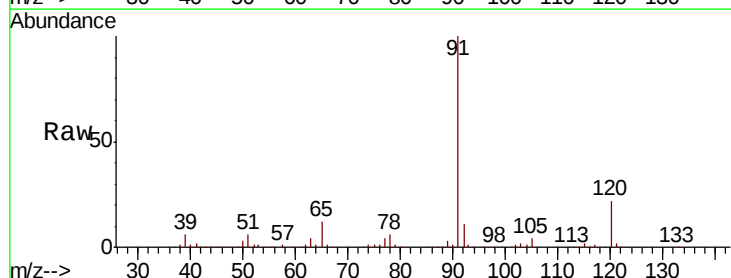
Acq: 02 Aug 2019 23:32

Tgt Ion: 91 Resp: 294893

Ion Ratio Lower Upper

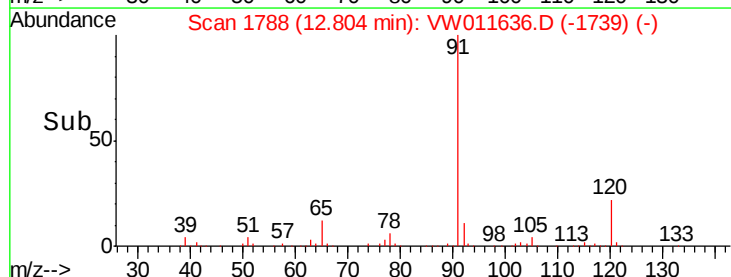
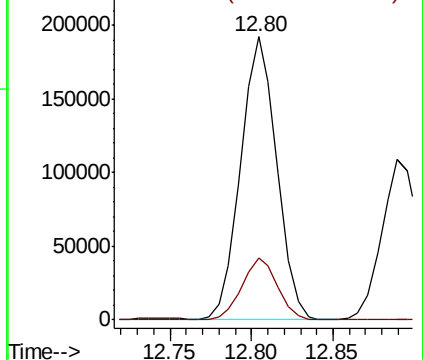
91 100

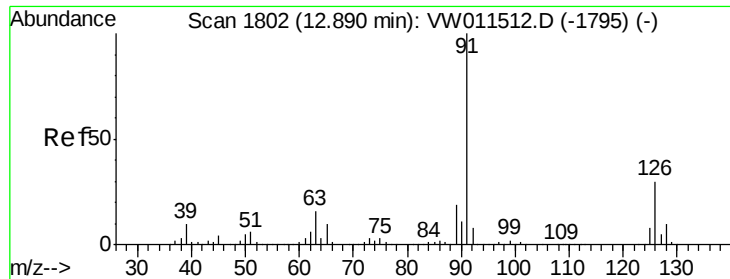
120 21.6 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

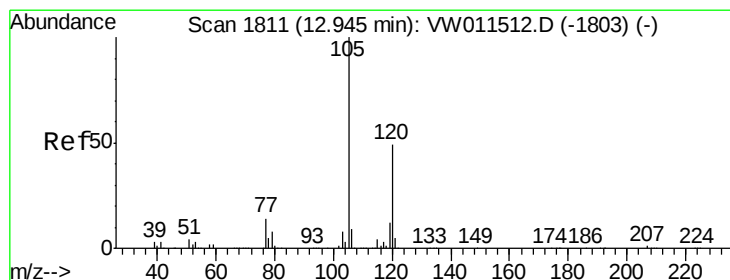
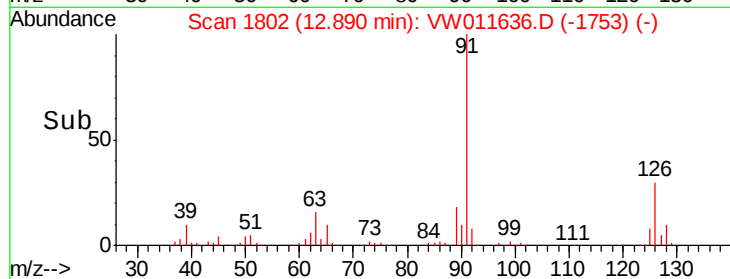
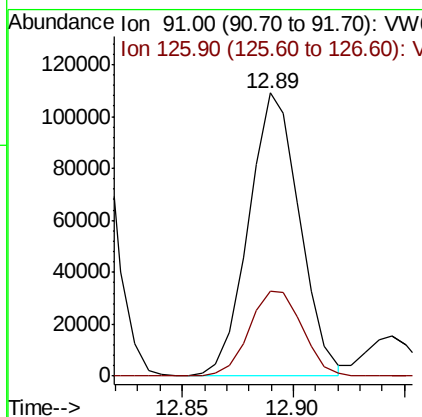
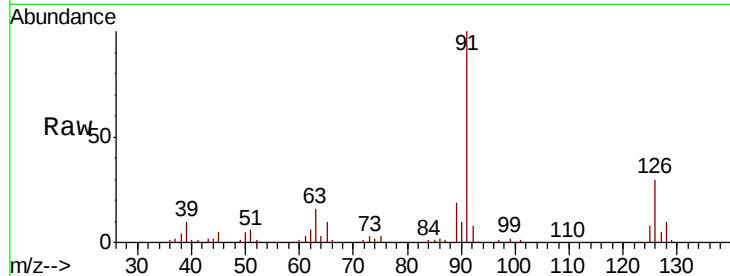




#79  
 2-Chlorotoluene  
 Concen: 20.589 ug/l  
 RT: 12.89 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

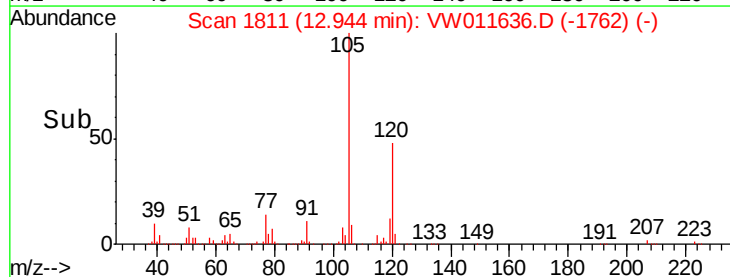
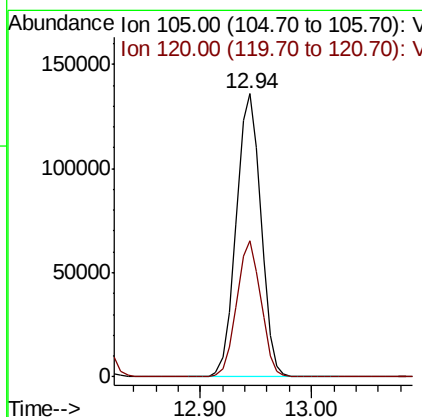
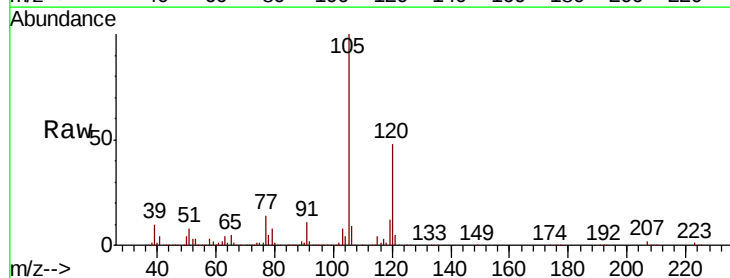
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

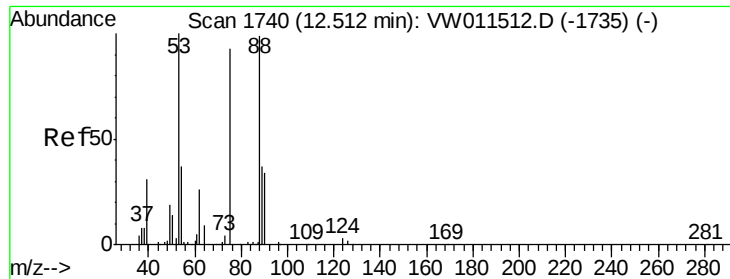
Tgt Ion: 91 Resp: 173233  
 Ion Ratio Lower Upper  
 91 100  
 126 31.2 15.7 47.1



#80  
 1,3,5-Trimethylbenzene  
 Concen: 20.683 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion: 105 Resp: 208064  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 19.469 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

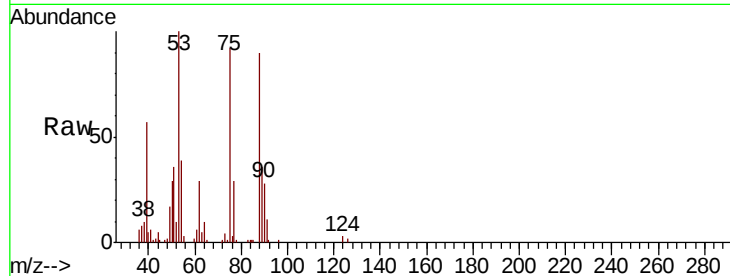
Tgt Ion: 75 Resp: 14379

Ion Ratio Lower Upper

75 100

53 115.3 88.0 132.0

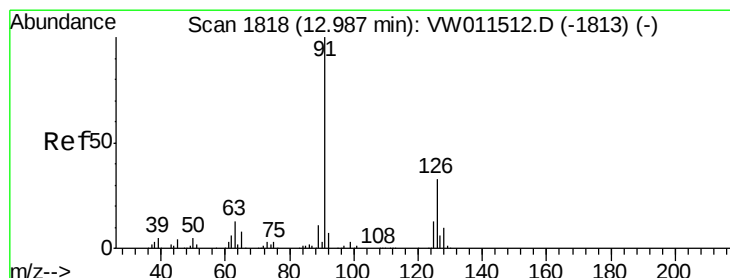
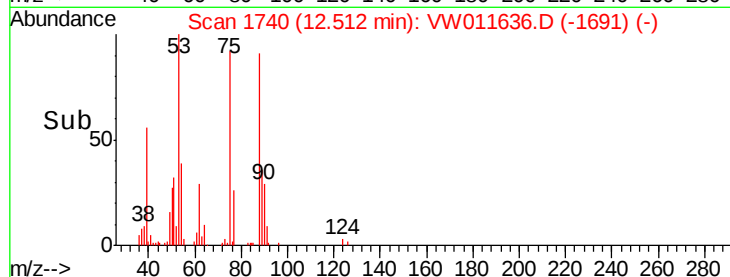
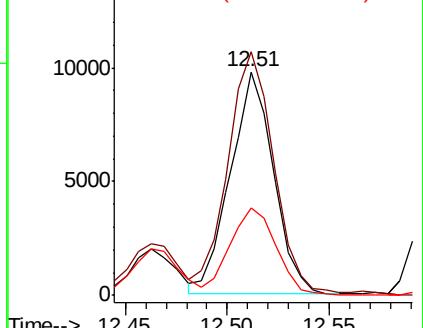
89 41.9 35.3 52.9



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 20.408 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW011636.D

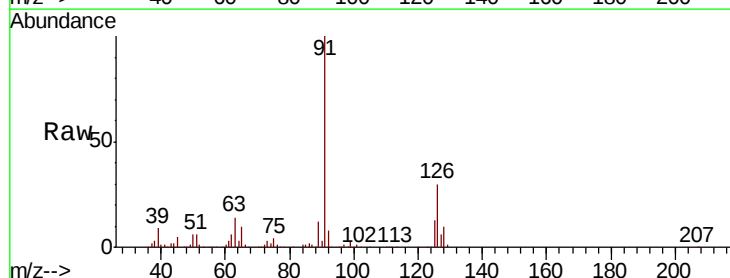
Acq: 02 Aug 2019 23:32

Tgt Ion: 91 Resp: 180156

Ion Ratio Lower Upper

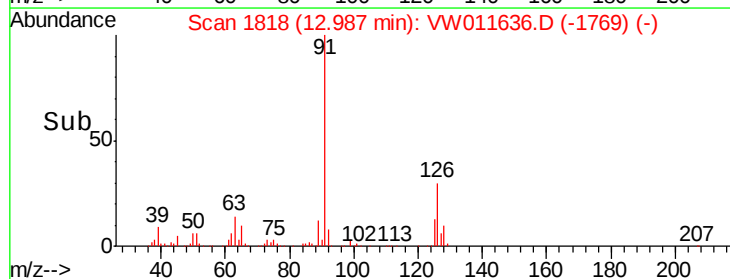
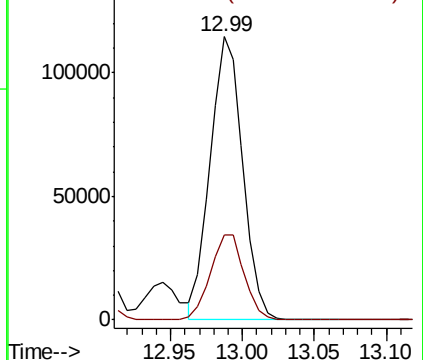
91 100

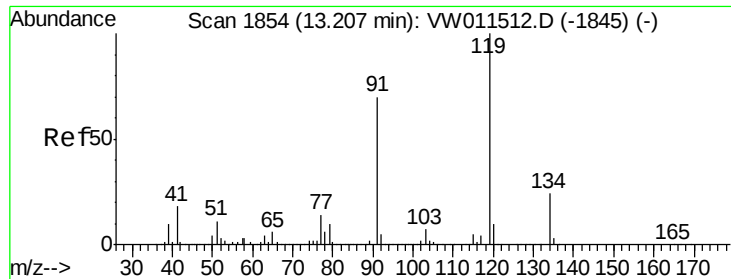
126 31.4 15.6 46.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

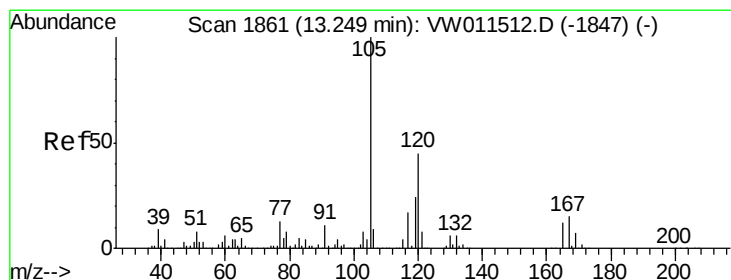
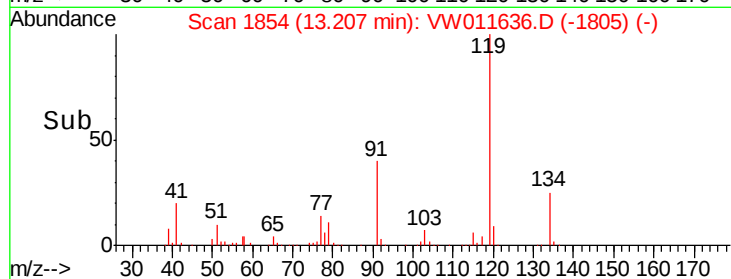
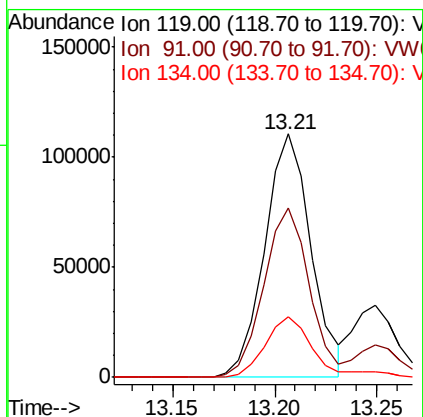
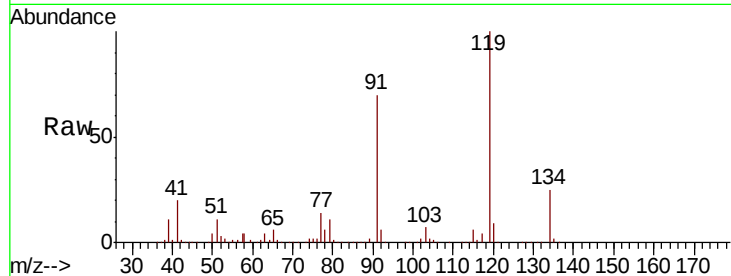




#83  
 tert-Butylbenzene  
 Concen: 20.757 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

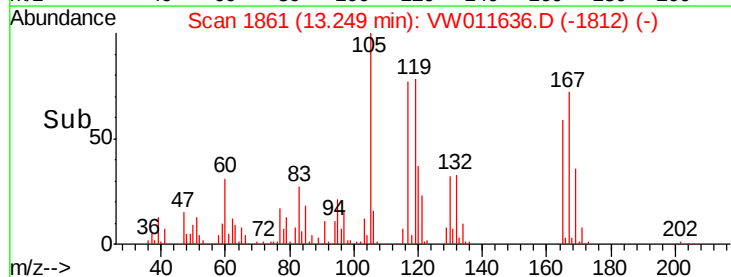
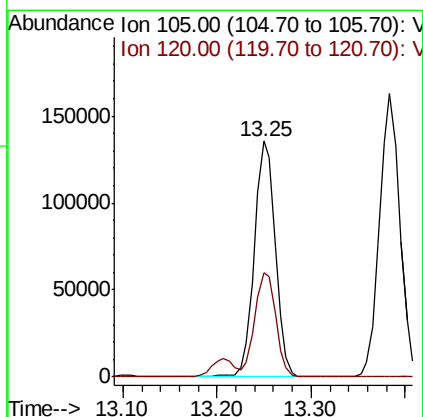
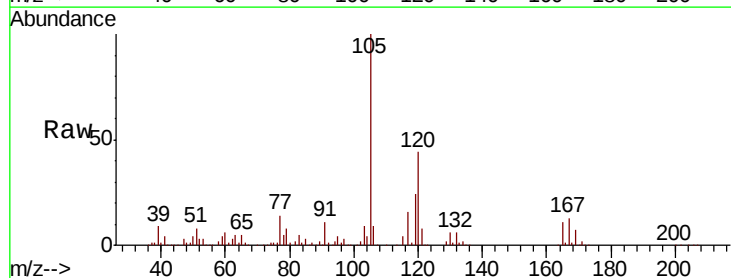
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

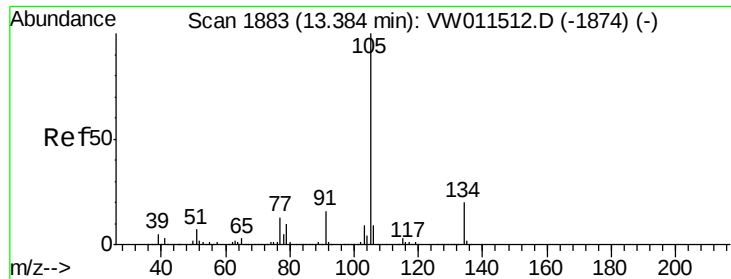
Tgt Ion:119 Resp: 174608  
 Ion Ratio Lower Upper  
 119 100  
 91 68.2 34.5 103.6  
 134 26.6 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 20.840 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion:105 Resp: 211185  
 Ion Ratio Lower Upper  
 105 100  
 120 44.2 22.1 66.5

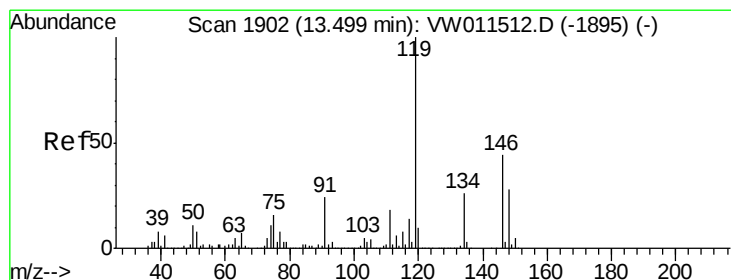
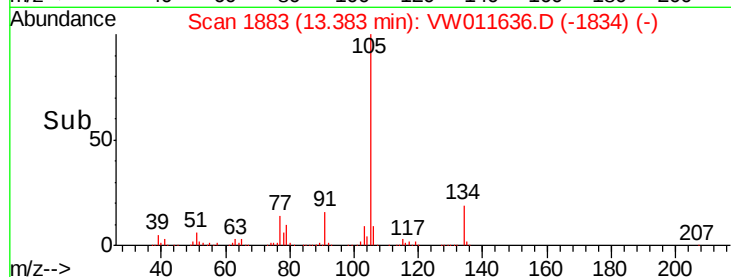
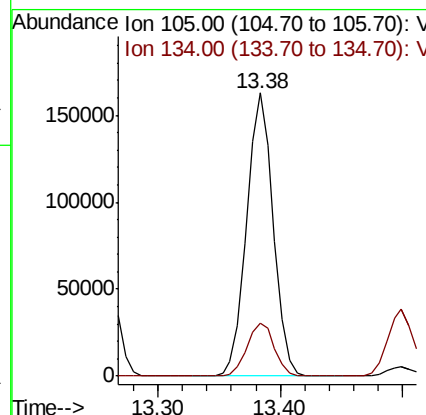
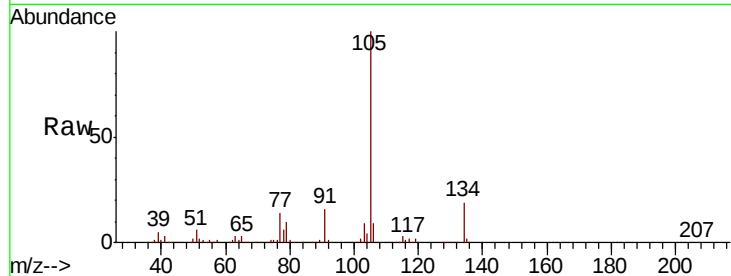




#85  
 sec-Butylbenzene  
 Concen: 20.354 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

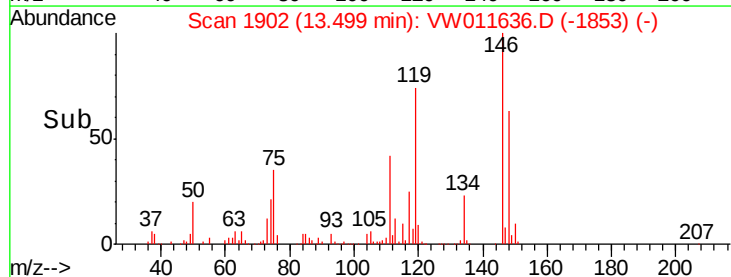
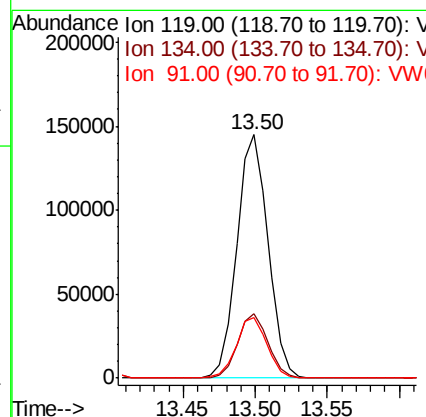
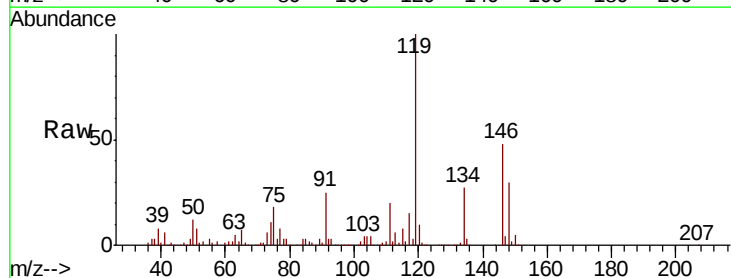
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

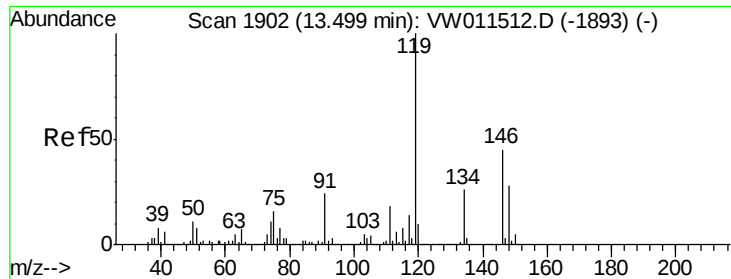
Tgt Ion:105 Resp: 244306  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 9.7 29.1



#86  
 p-Isopropyltoluene  
 Concen: 20.053 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion:119 Resp: 218390  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 12.8 38.4  
 91 24.6 12.1 36.3

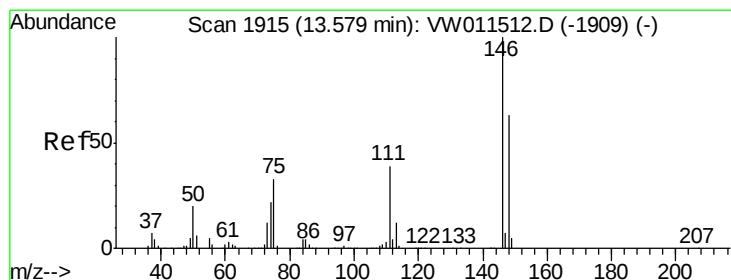
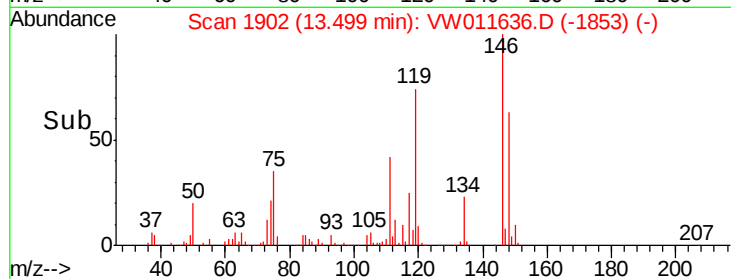
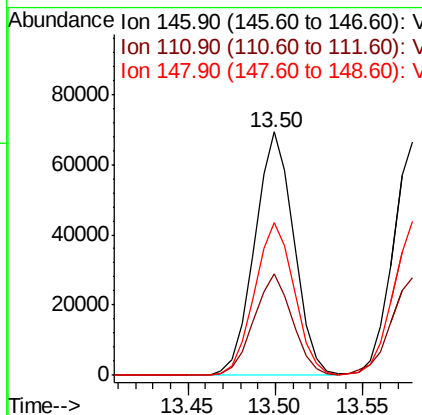
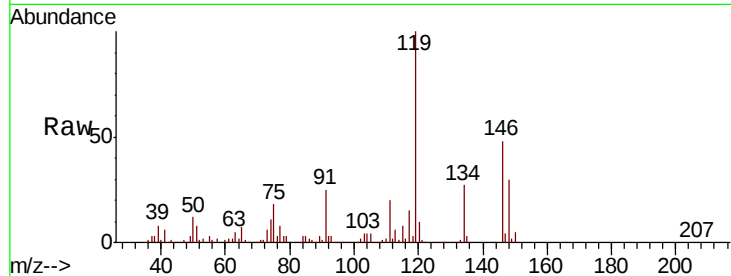




#87  
 1,3-Dichlorobenzene  
 Concen: 20.756 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

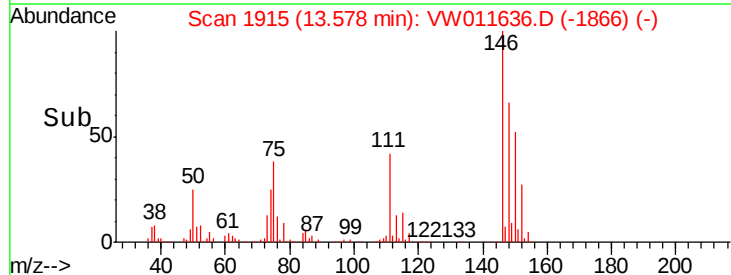
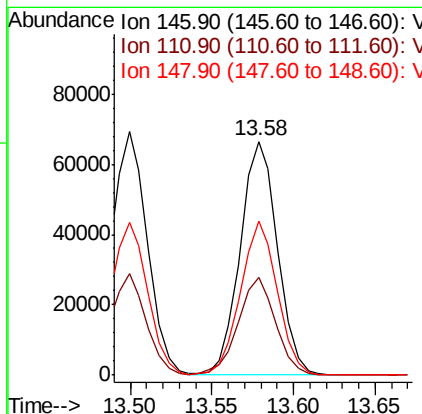
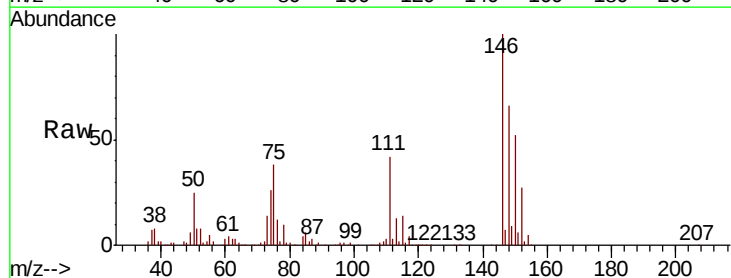
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

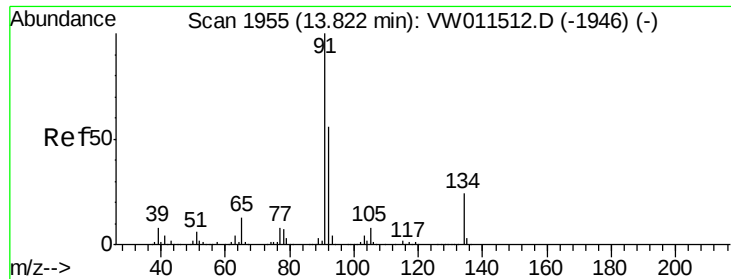
Tgt Ion:146 Resp: 107951  
 Ion Ratio Lower Upper  
 146 100  
 111 40.9 20.5 61.6  
 148 63.3 31.8 95.3



#88  
 1,4-Dichlorobenzene  
 Concen: 20.469 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion:146 Resp: 105903  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 20.1 60.2  
 148 65.1 31.9 95.9





#89

n-Butylbenzene

Concen: 19.361 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

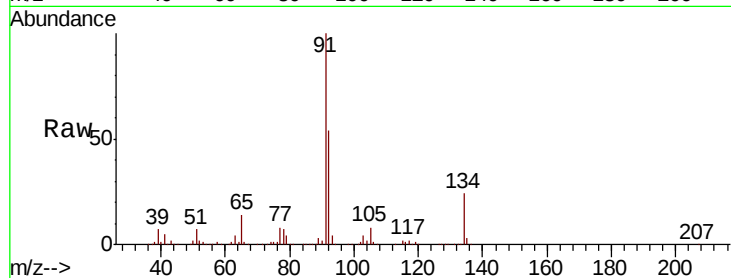
Tgt Ion: 91 Resp: 210419

Ion Ratio Lower Upper

91 100

92 54.2 27.5 82.4

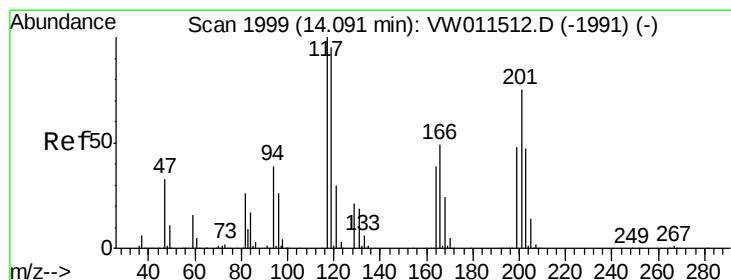
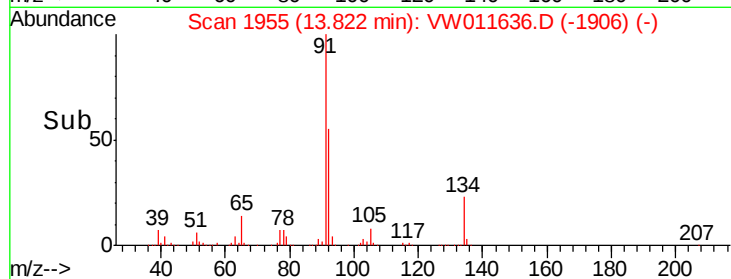
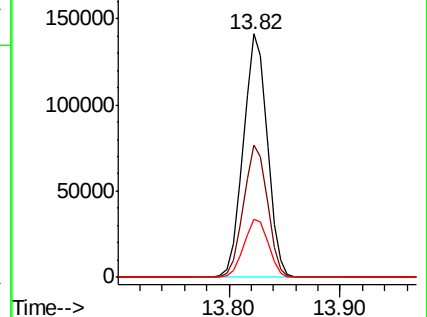
134 24.4 12.2 36.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.826 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW011636.D

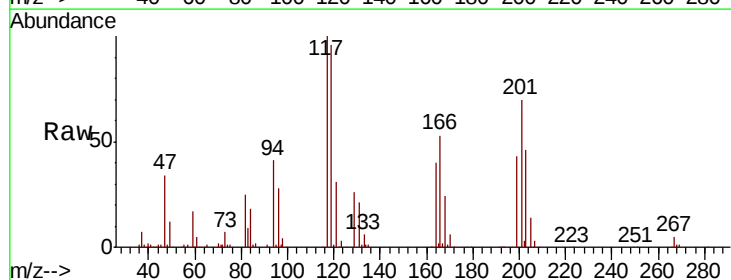
Acq: 02 Aug 2019 23:32

Tgt Ion: 117 Resp: 40106

Ion Ratio Lower Upper

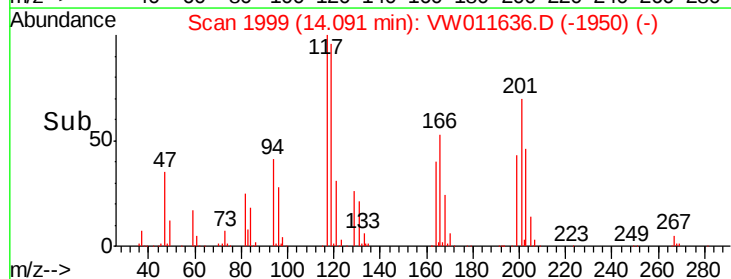
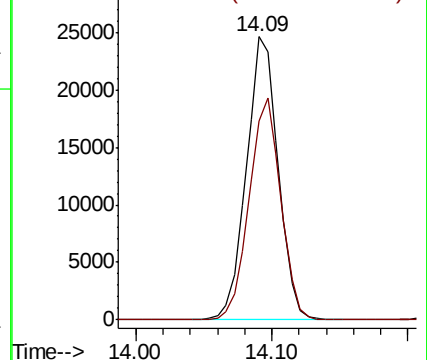
117 100

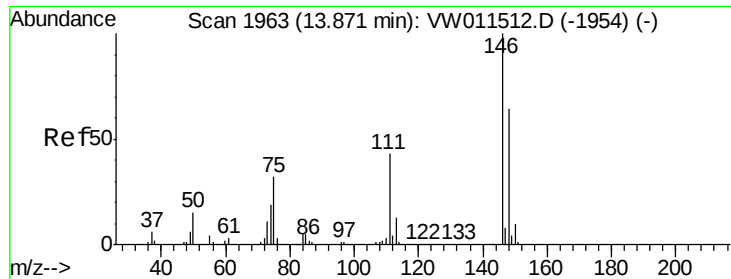
201 78.1 39.4 118.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.077 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

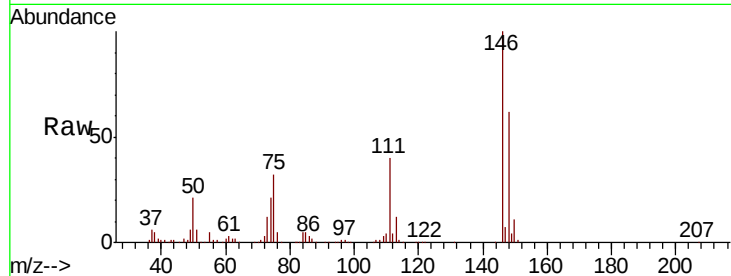
Tgt Ion:146 Resp: 96956

Ion Ratio Lower Upper

146 100

111 42.7 21.6 65.0

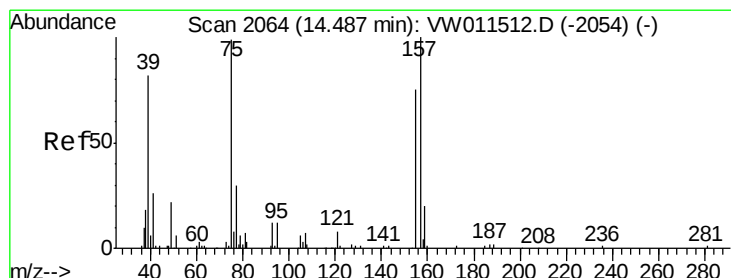
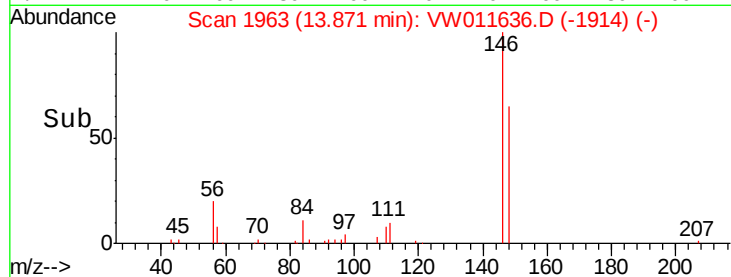
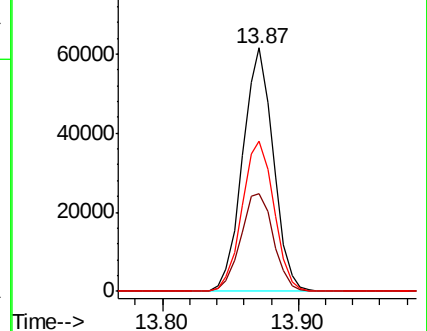
148 64.2 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.890 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

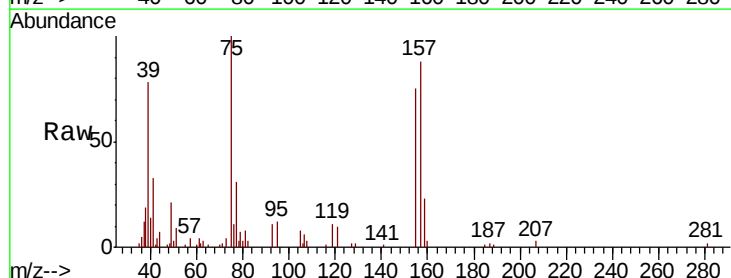
Tgt Ion: 75 Resp: 8426

Ion Ratio Lower Upper

75 100

155 74.0 38.2 114.6

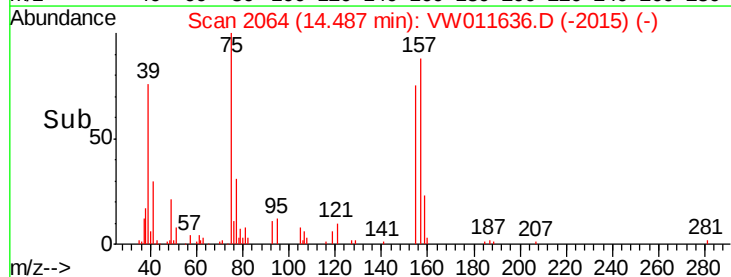
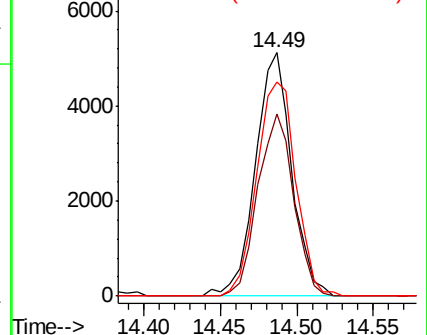
157 95.2 48.9 146.7

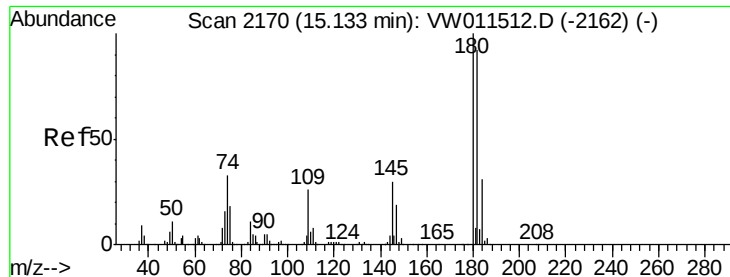


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

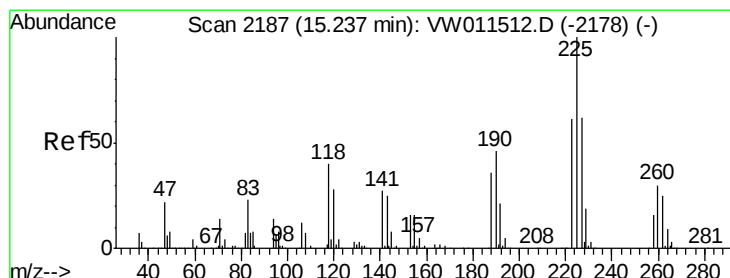
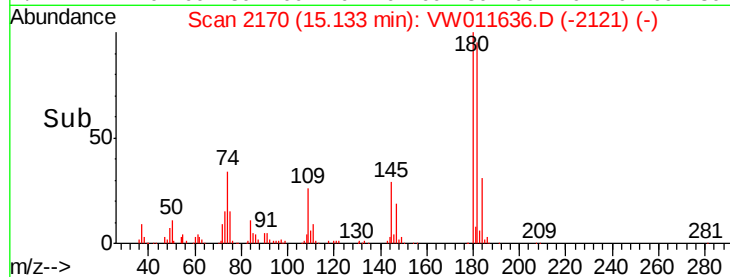
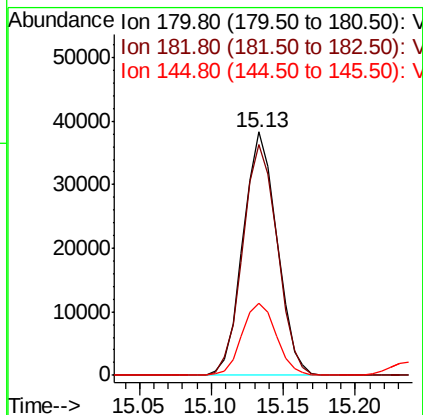
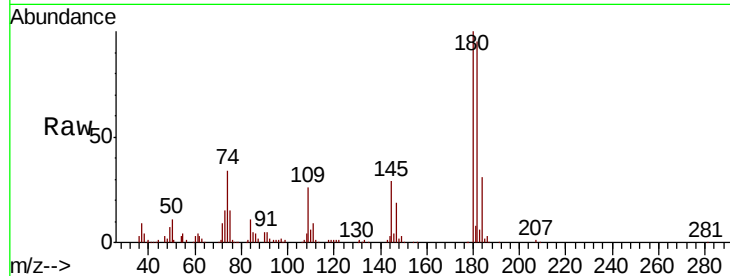




#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.308 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

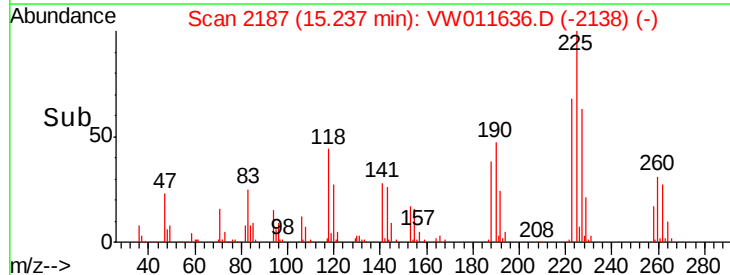
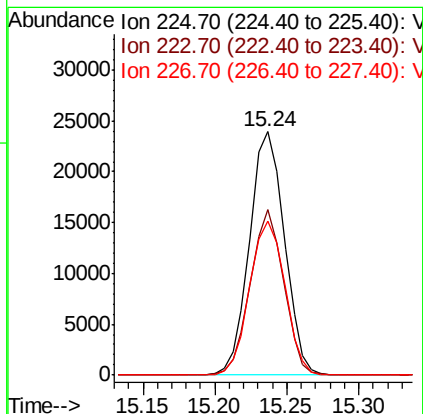
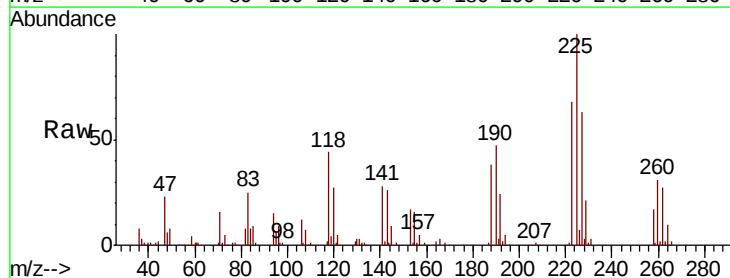
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0803SBS01

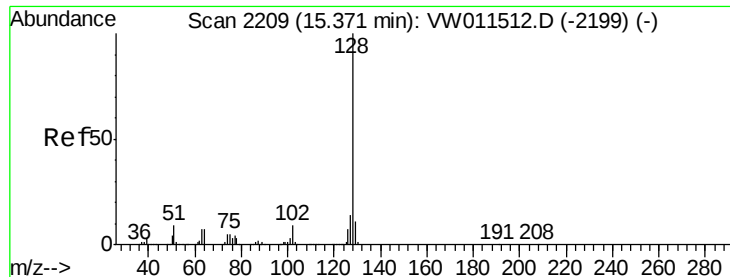
Tgt Ion:180 Resp: 62596  
 Ion Ratio Lower Upper  
 180 100  
 182 96.3 47.4 142.2  
 145 30.1 15.4 46.1



#94  
 Hexachlorobutadiene  
 Concen: 19.826 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW011636.D  
 Acq: 02 Aug 2019 23:32

Tgt Ion:225 Resp: 40083  
 Ion Ratio Lower Upper  
 225 100  
 223 65.3 30.8 92.3  
 227 64.0 31.6 94.7





#95

Naphthalene

Concen: 19.280 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

Instrument :

MSVOA\_W

ClientSampleId :

VW0803SBS01

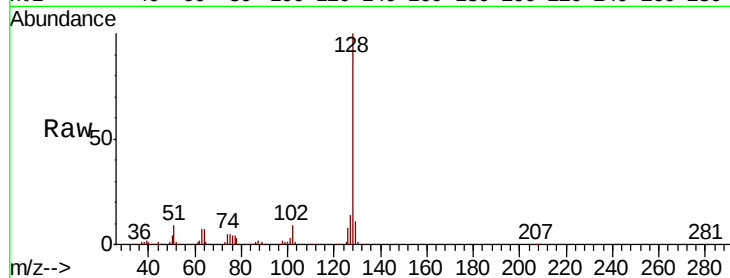
Tgt Ion:128 Resp: 114030

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

129 11.3 8.6 13.0

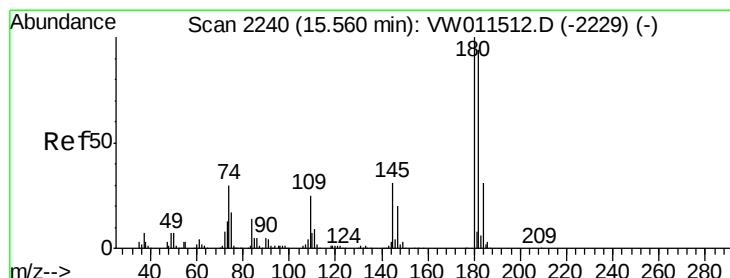
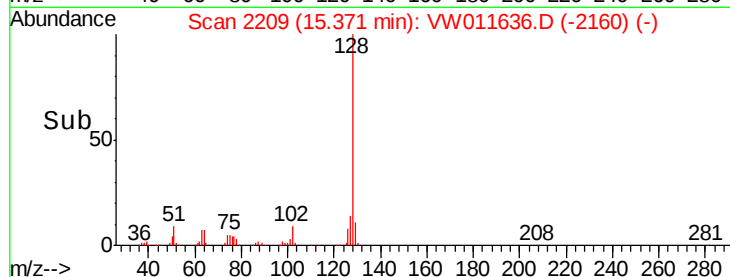
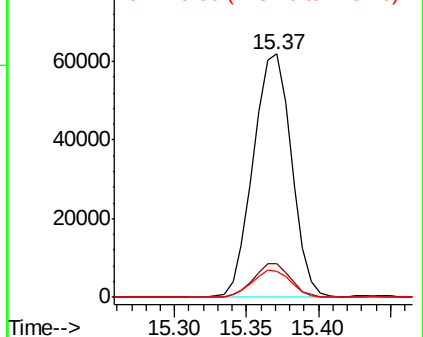


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.975 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011636.D

Acq: 02 Aug 2019 23:32

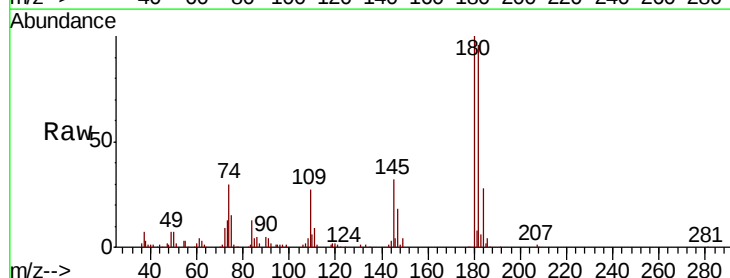
Tgt Ion:180 Resp: 56765

Ion Ratio Lower Upper

180 100

182 95.0 47.4 142.2

145 32.1 15.9 47.7



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

