

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071819\  
 Data File : VW011345.D  
 Acq On : 18 Jul 2019 20:14  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jul 19 06:46:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 190312   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 314267   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 277118   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 131059   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 107664   | 45.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.04% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 86368    | 46.11 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.22% |          |
| 50) Toluene-d8              | 10.32 | 98   | 349549   | 46.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.34% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 125399   | 45.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.36% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 62498    | 44.033  | ug/l  | 96     |
| 3) Chloromethane              | 2.21 | 50   | 85539    | 46.770  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.35 | 62   | 104172   | 43.517  | ug/l  | 95     |
| 5) Bromomethane               | 2.76 | 94   | 53665    | 44.614  | ug/l  | 98     |
| 6) Chloroethane               | 2.92 | 64   | 58591    | 45.442  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.24 | 101  | 34456    | 40.517  | ug/l  | 95     |
| 8) Diethyl Ether              | 3.67 | 74   | 56027    | 47.616  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 94797    | 46.539  | ug/l  | 100    |
| 10) Methyl Iodide             | 4.26 | 142  | 132275   | 47.215  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 42228    | 238.513 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 99954    | 47.278  | ug/l  | 94     |
| 13) Acrolein                  | 3.89 | 56   | 26519    | 188.103 | ug/l  | 100    |
| 14) Allyl chloride            | 4.66 | 41   | 185409   | 48.092  | ug/l  | 98     |
| 15) Acrylonitrile             | 5.36 | 53   | 145658   | 243.064 | ug/l  | 100    |
| 16) Acetone                   | 4.12 | 43   | 145291   | 252.511 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.38 | 76   | 287864   | 44.912  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 73336    | 44.669  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 153912   | 47.979  | ug/l  | 99     |
| 20) Methylene Chloride        | 4.91 | 84   | 113892   | 50.176  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96   | 105351   | 47.956  | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.31 | 45   | 410189   | 49.468  | ug/l  | 98     |
| 23) Vinyl Acetate             | 6.25 | 43   | 1284813  | 250.369 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 211858   | 48.655  | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 225760   | 249.955 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 97389    | 43.028  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 116832   | 49.301  | ug/l  | 98     |
| 28) Bromochloromethane        | 7.51 | 49   | 88496    | 44.698  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.52 | 42   | 142679   | 240.915 | ug/l  | 100    |
| 30) Chloroform                | 7.67 | 83   | 195024   | 48.363  | ug/l  | 97     |
| 31) Cyclohexane               | 7.95 | 56   | 207917   | 44.884  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 143082   | 46.645  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 158210   | 47.274  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.24 | 43   | 97544    | 48.511  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 133970   | 47.222  | ug/l  | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 190771   | 47.031  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 449647   | 48.616  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 61011    | 53.052  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 143305   | 47.764  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 182464   | 48.064  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 106812   | 47.991  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 122716   | 48.997  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 56600    | 48.108  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 143799   | 47.769  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 89277    | 48.882  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 18929    | 963.892 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 490514   | 247.350 | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 273706   | 48.785  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 147706   | 46.096  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 176416   | 46.775  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 80416    | 48.180  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 124734   | 49.086  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 151367   | 47.958  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 242196   | 205.588 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 339624   | 246.952 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 87183    | 47.634  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 75075    | 47.486  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 92200    | 49.306  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 269035   | 47.751  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 96619    | 48.705  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 526144   | 48.782  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 382246   | 97.943  | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 176608   | 48.012  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 310881   | 48.971  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 48989    | 46.446  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 492195   | 50.239  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 170470   | 49.960  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 98196    | 48.896  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 126854   | 83.757  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 109416   | 49.765  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 599728   | 49.693  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 344829   | 49.652  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 414513   | 49.802  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 28445    | 42.479  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 351766   | 48.630  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 344867   | 49.682  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 415693   | 49.739  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 491335   | 49.054  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 441830   | 49.181  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 207501   | 49.052  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 204841   | 48.088  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 433635   | 48.386  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 77994    | 47.510  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 187340   | 48.816  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 16838    | 47.268  | ug/l   | 97       |

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Instrument :  
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ClientSampleId :  
VSTDCCC050EC

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Quant Title : SW846 8260  
QLast Update : Thu Jul 11 08:14:17 2019  
Response via : Initial Calibration

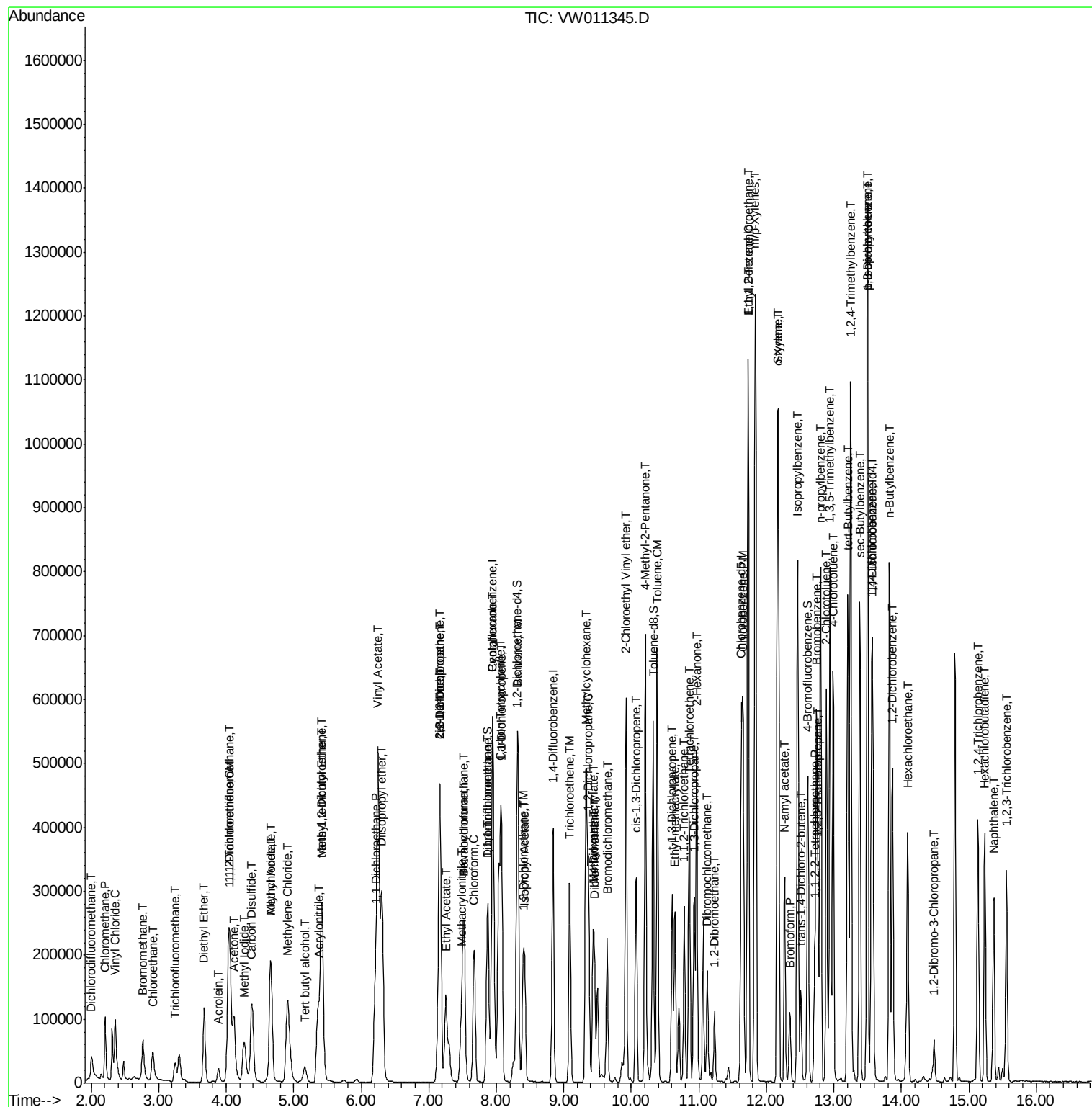
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 124794   | 47.211 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 74701    | 46.031 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 242116   | 47.799 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 108153   | 46.361 | ug/l  | 99       |

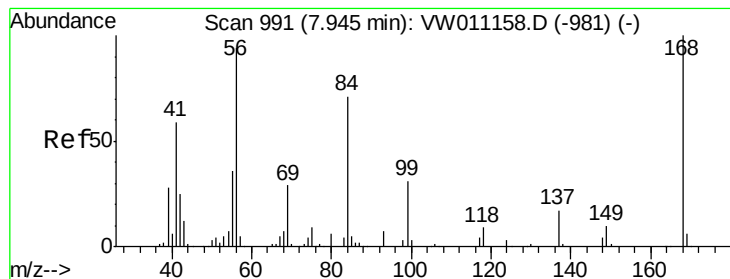
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

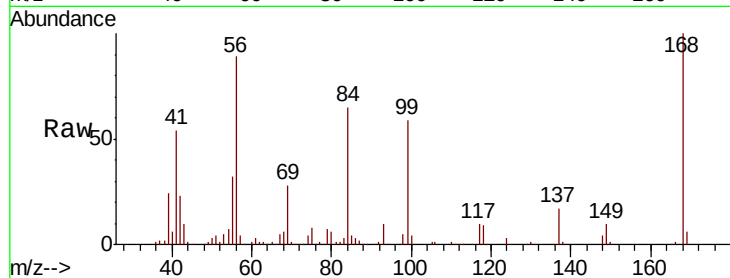
VSTDCCC050EC

Tot Ion:168 Resp: 190312

Ion Ratio Lower Upper

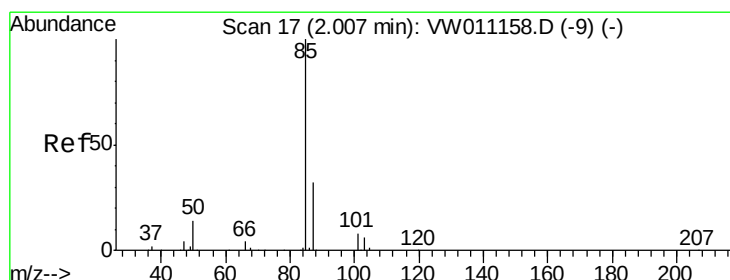
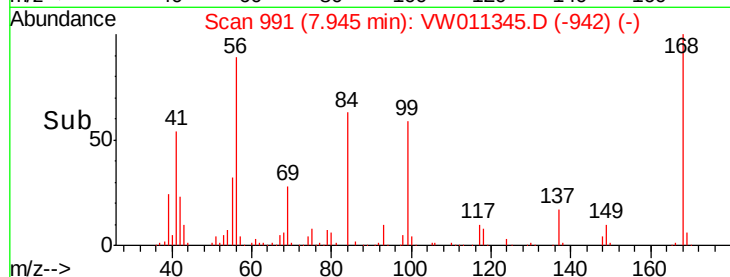
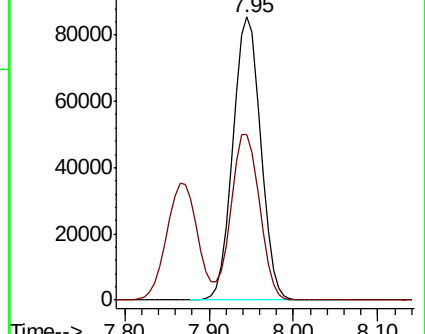
168 100

99 58.7 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 44.033 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011345.D

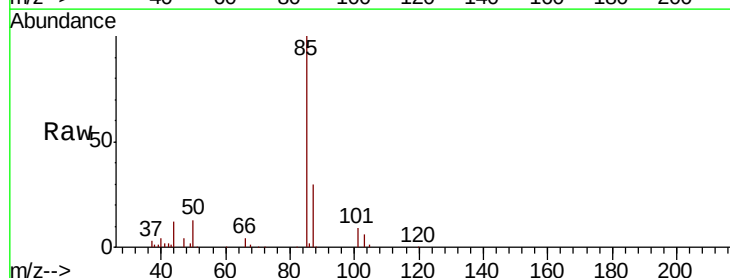
Acq: 18 Jul 2019 20:14

Tgt Ion: 85 Resp: 62498

Ion Ratio Lower Upper

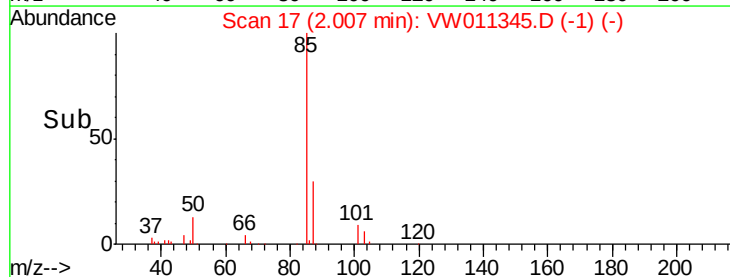
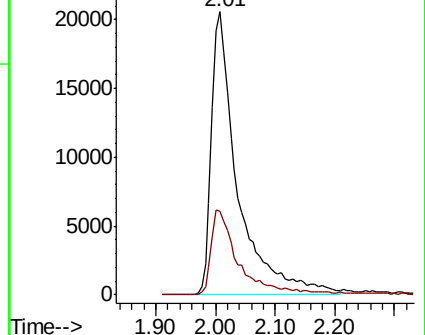
85 100

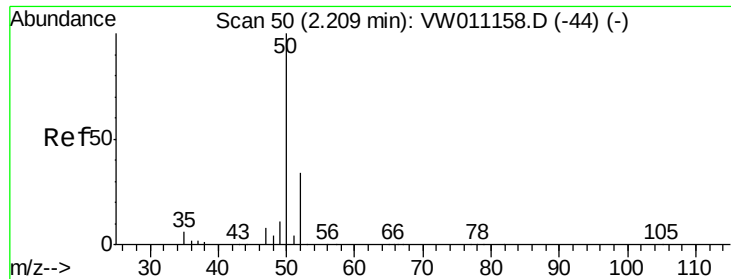
87 29.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 46.770 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

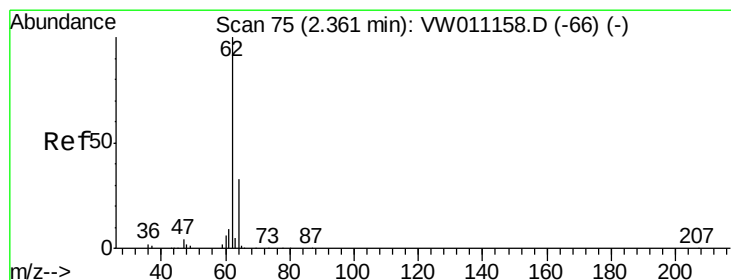
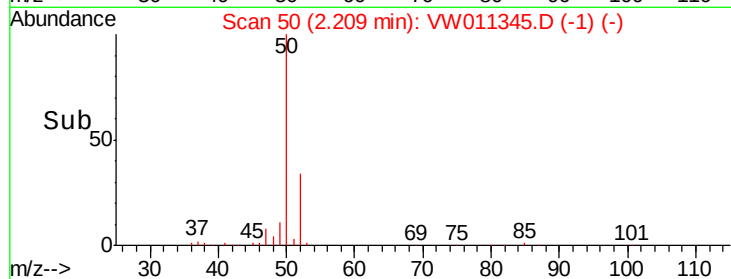
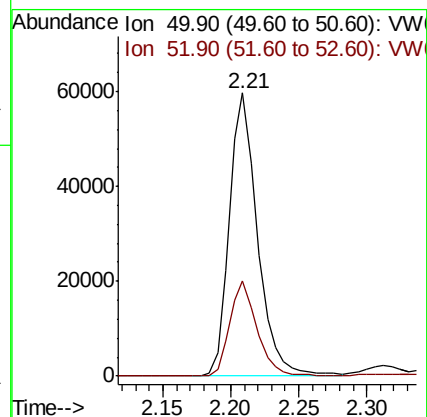
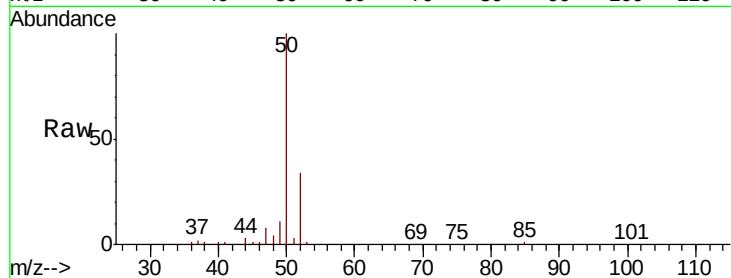
VSTDCCC050EC

Tot Ion: 50 Resp: 85539

Ion Ratio Lower Upper

50 100

52 33.6 26.9 40.3



#4

Vinyl Chloride

Concen: 43.517 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011345.D

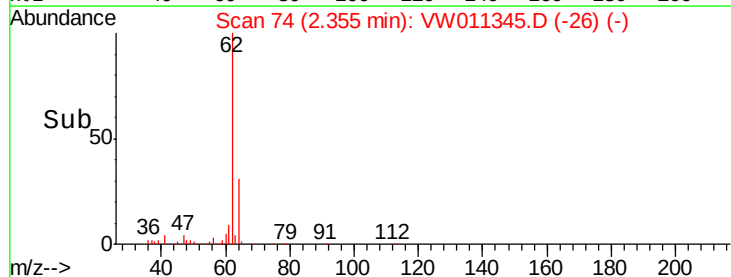
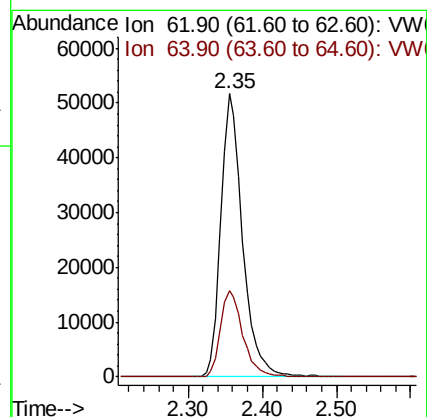
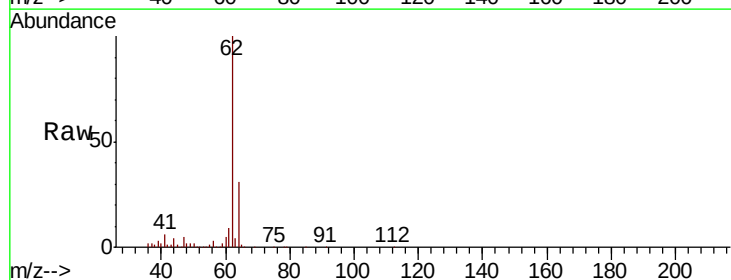
Acq: 18 Jul 2019 20:14

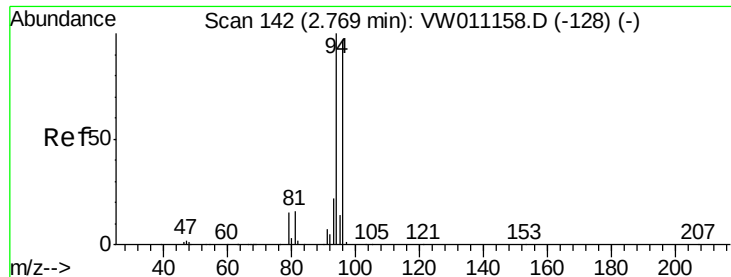
Tgt Ion: 62 Resp: 104172

Ion Ratio Lower Upper

62 100

64 30.7 26.6 40.0





#5

Bromomethane

Concen: 44.614 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

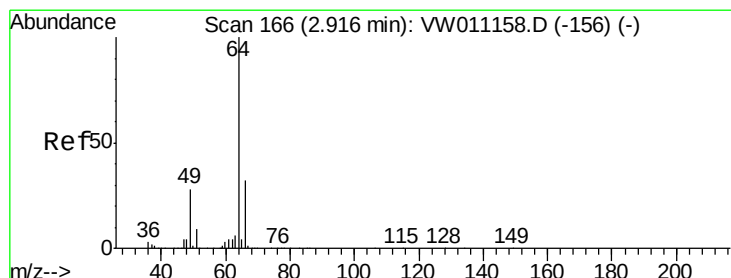
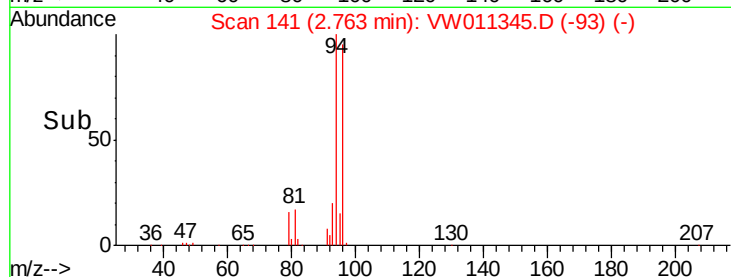
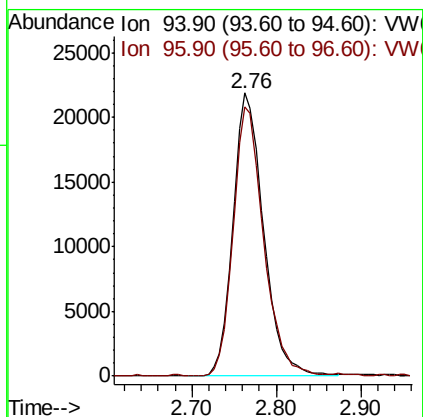
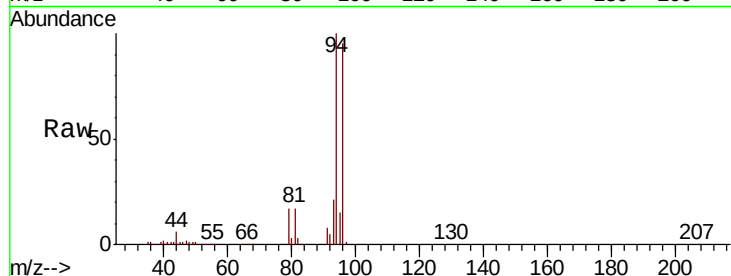
VSTDCCC050EC

Tot Ion: 94 Resp: 53665

Ion Ratio Lower Upper

94 100

96 95.1 77.4 116.0



#6

Chloroethane

Concen: 45.442 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW011345.D

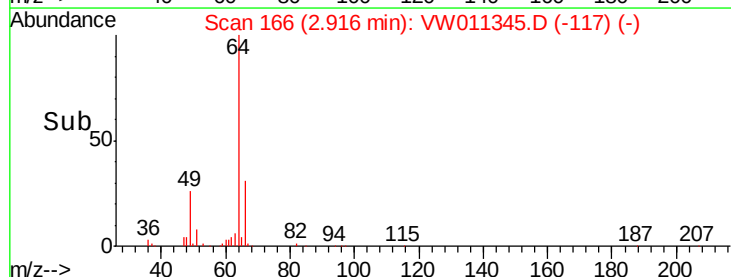
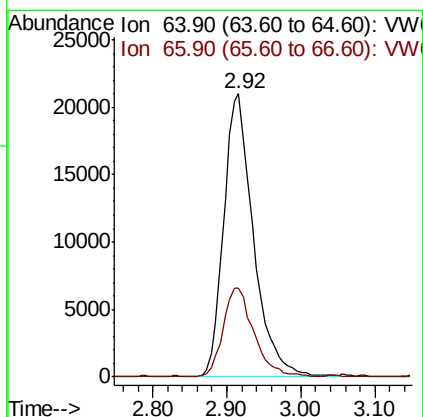
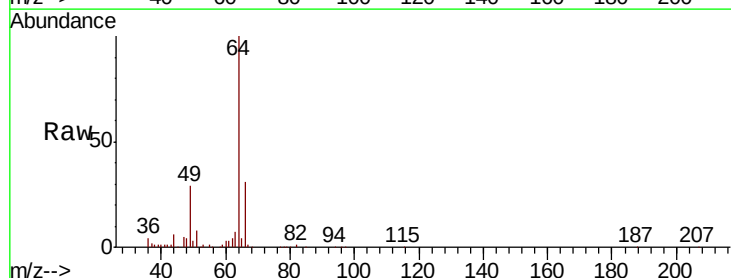
Acq: 18 Jul 2019 20:14

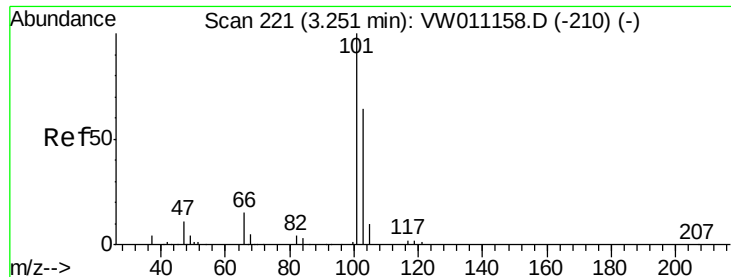
Tgt Ion: 64 Resp: 58591

Ion Ratio Lower Upper

64 100

66 31.2 25.8 38.8



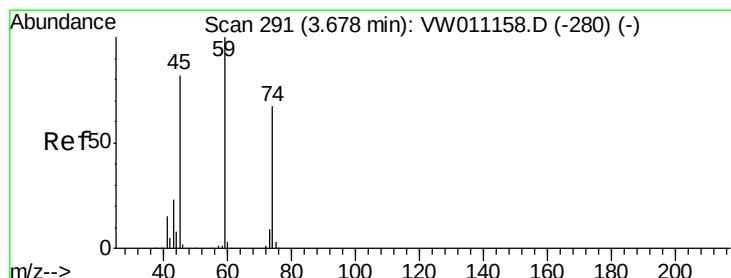
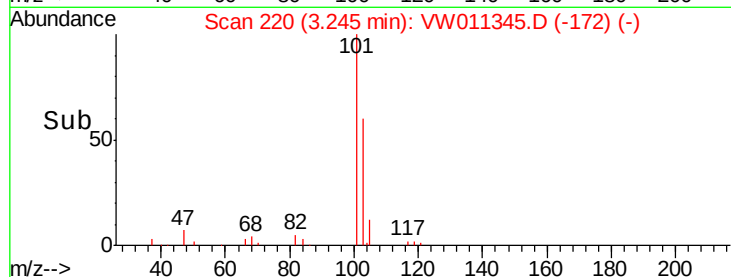
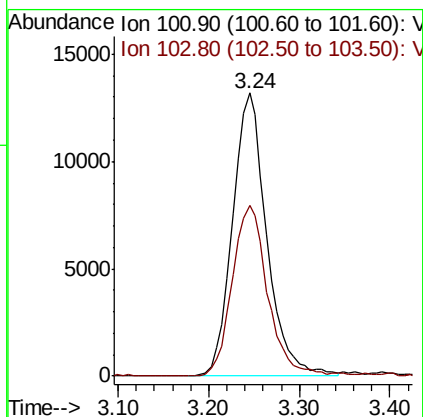
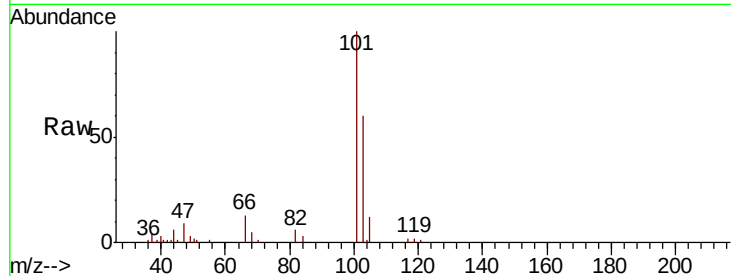


#7

Trichlorofluoromethane  
Concen: 40.517 ug/l  
RT: 3.24 min Scan# 220  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

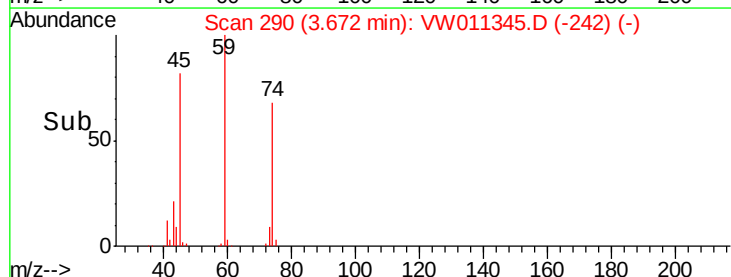
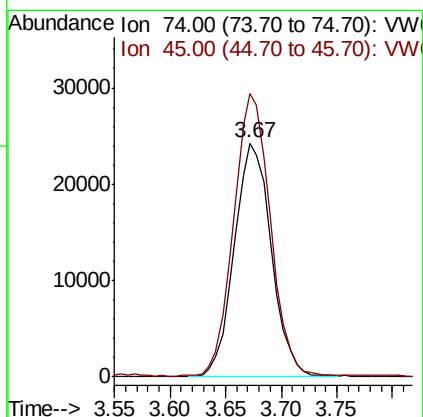
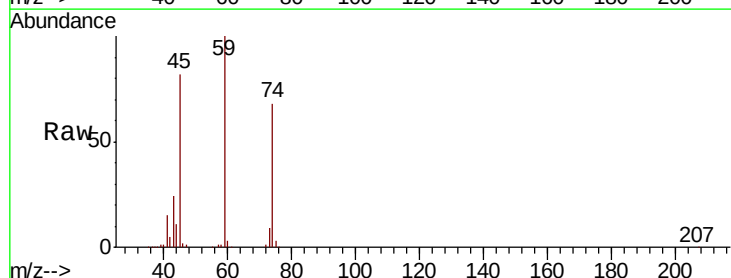
Tot Ion:101 Resp: 34456  
Ion Ratio Lower Upper  
101 100  
103 60.3 51.3 76.9



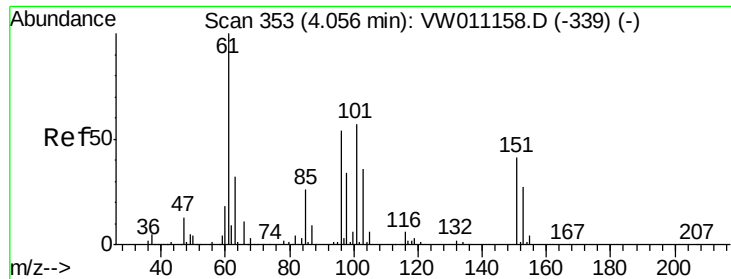
#8

Diethyl Ether  
Concen: 47.616 ug/l  
RT: 3.67 min Scan# 290  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 74 Resp: 56027  
Ion Ratio Lower Upper  
74 100  
45 120.1 59.9 179.7







#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.539 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

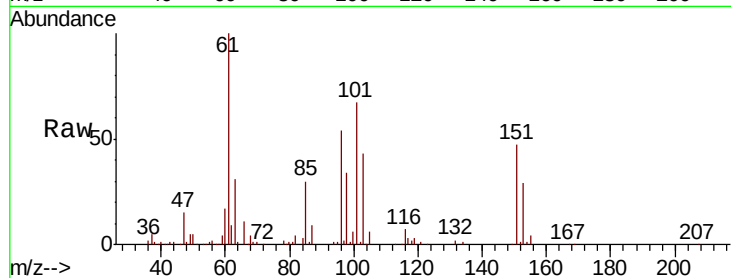
Tot Ion:101 Resp: 94797

Ion Ratio Lower Upper

101 100

85 45.4 36.5 54.7

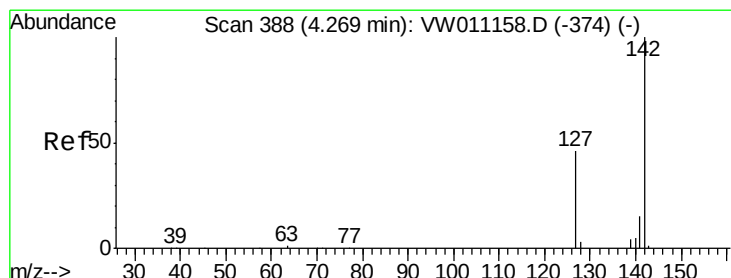
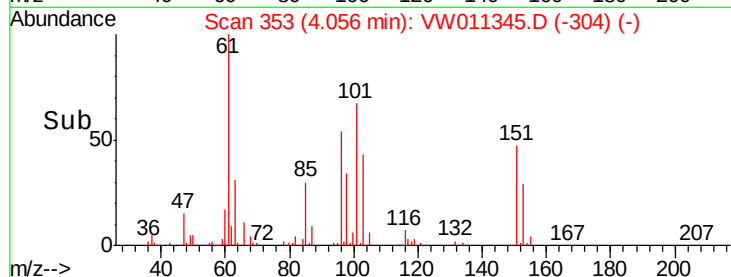
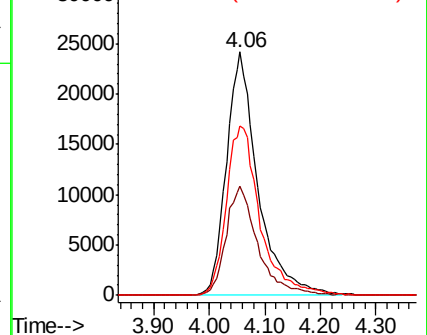
151 74.3 59.1 88.7



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: 47.215 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

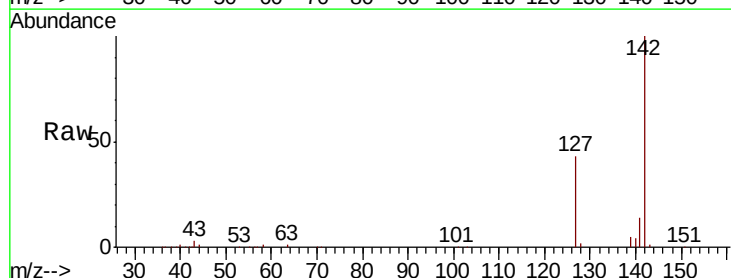
Tgt Ion:142 Resp: 132275

Ion Ratio Lower Upper

142 100

127 44.3 35.7 53.5

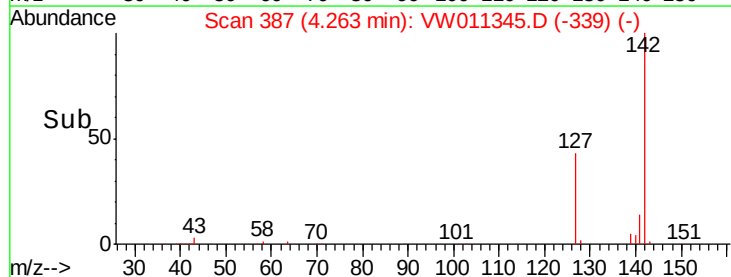
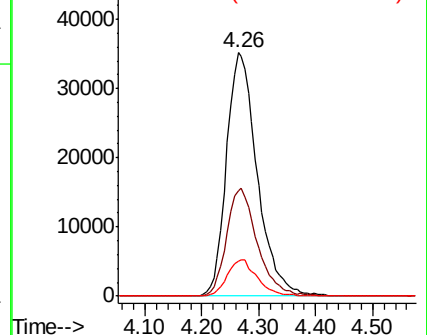
141 14.7 11.5 17.3

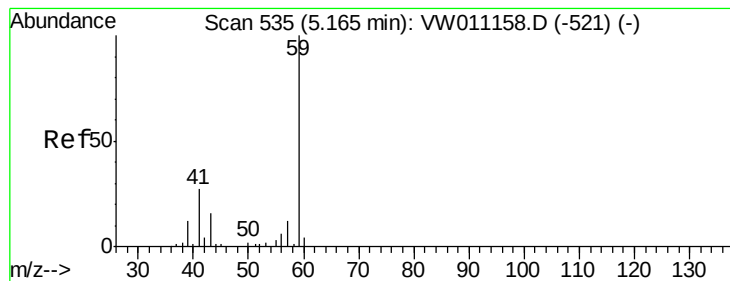


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



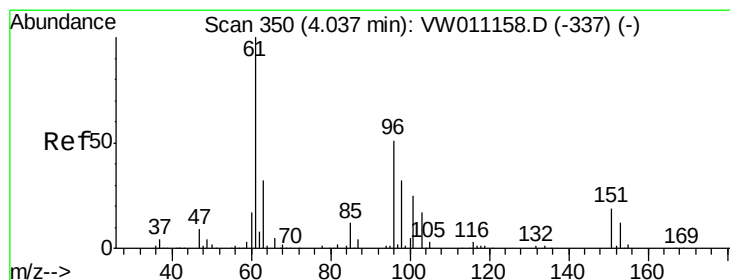
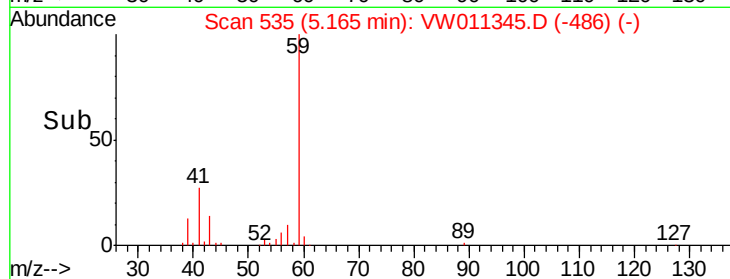
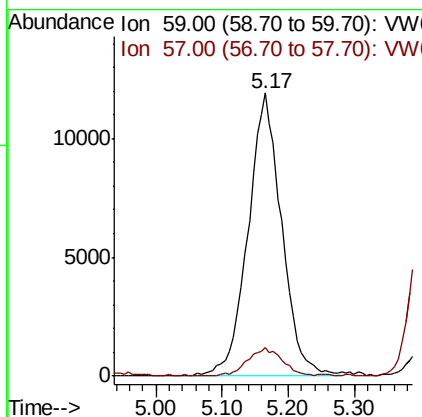
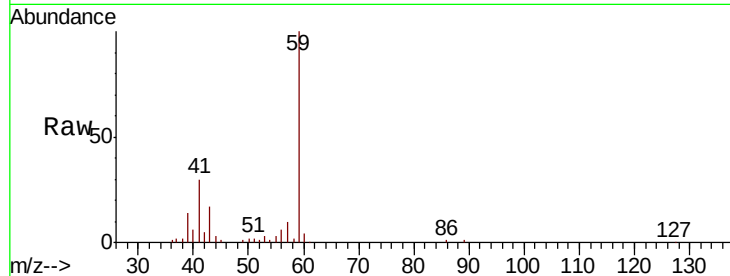


#11

Tert butyl alcohol  
 Concen: 238.513 ug/l  
 RT: 5.17 min Scan# 535  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

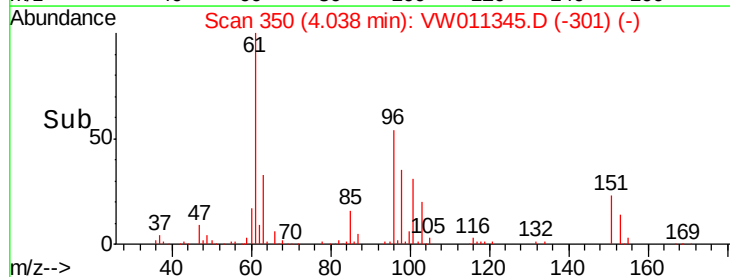
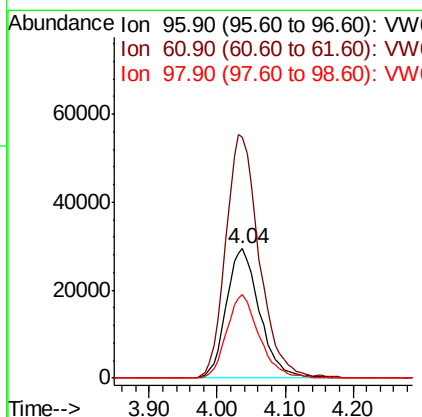
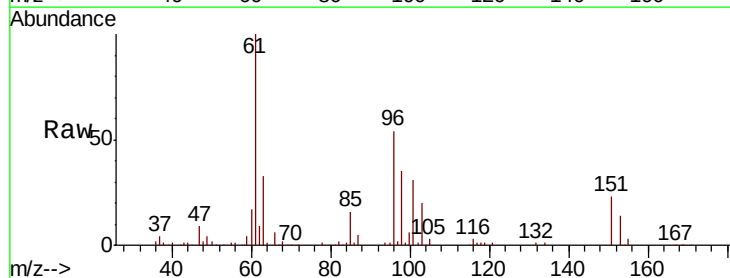
Tot Ion: 59 Resp: 42228  
 Ion Ratio Lower Upper  
 59 100  
 57 10.3 9.0 13.6

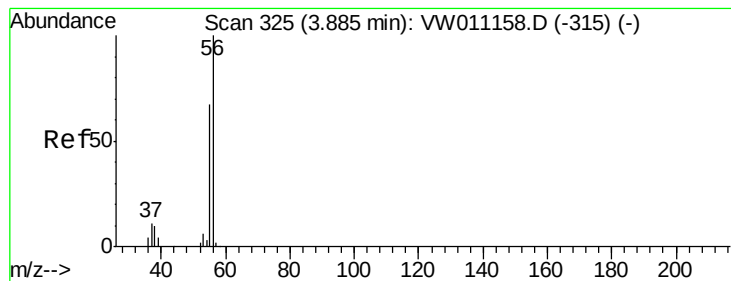


#12

1,1-Dichloroethene  
 Concen: 47.278 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 96 Resp: 99954  
 Ion Ratio Lower Upper  
 96 100  
 61 186.3 157.7 236.5  
 98 64.6 50.9 76.3





#13

Acrolein

Concen: 188.103 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

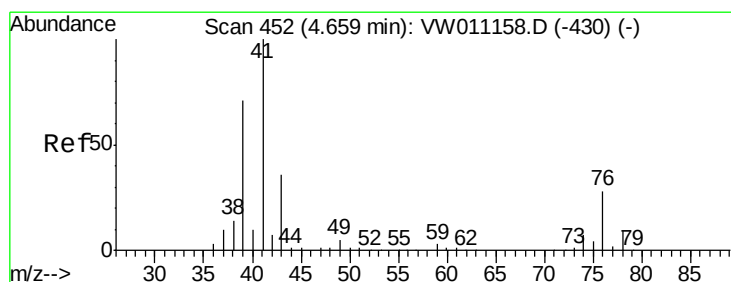
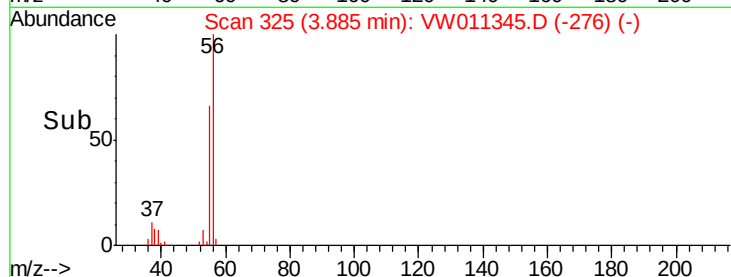
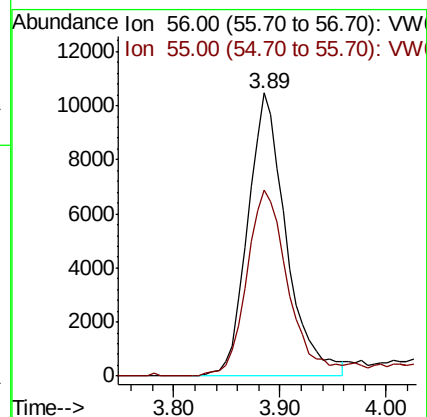
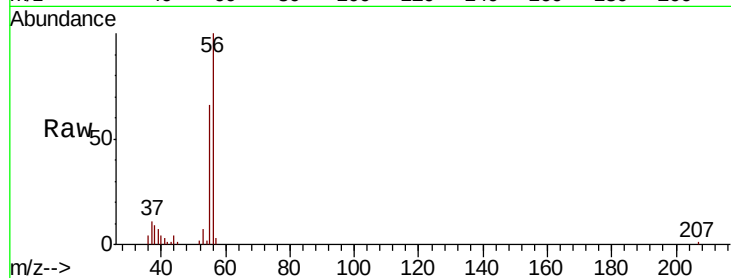
VSTDCCC050EC

Tot Ion: 56 Resp: 26519

Ion Ratio Lower Upper

56 100

55 70.7 56.4 84.6



#14

Allyl chloride

Concen: 48.092 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

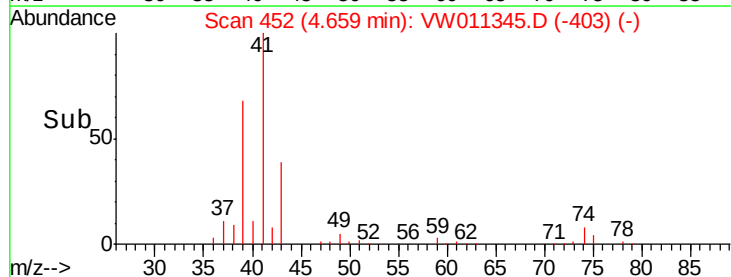
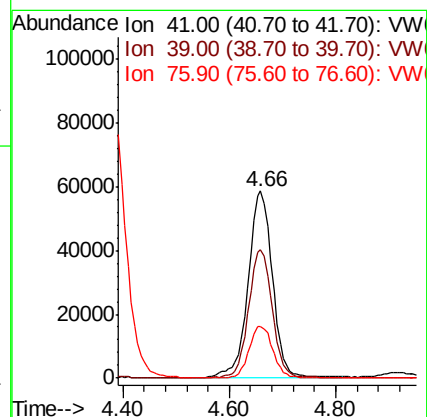
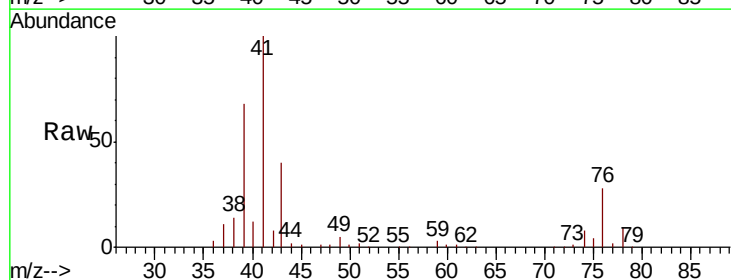
Tgt Ion: 41 Resp: 185409

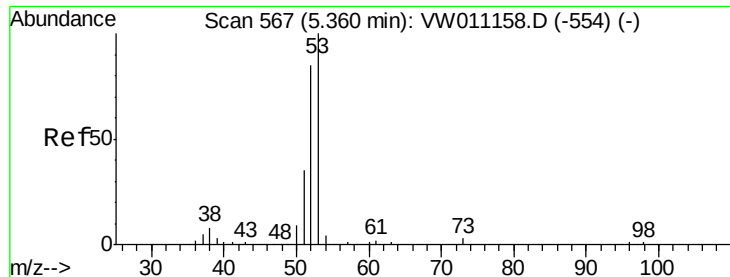
Ion Ratio Lower Upper

41 100

39 67.2 55.1 82.7

76 26.6 22.5 33.7





#15

Acrylonitrile

Concen: 243.064 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

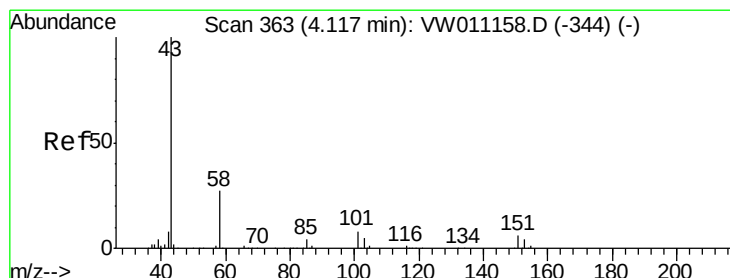
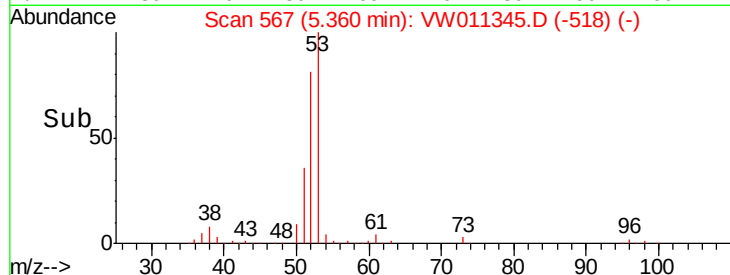
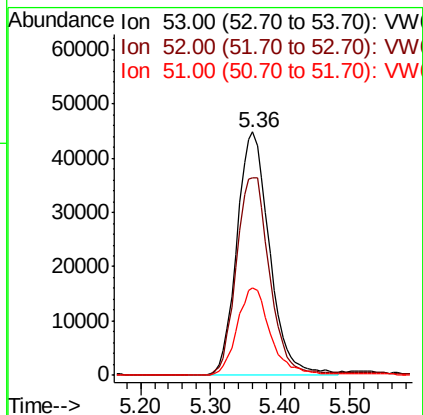
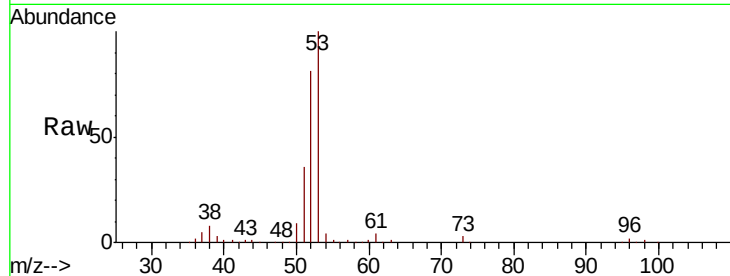
Tot Ion: 53 Resp: 145658

Ion Ratio Lower Upper

53 100

52 82.8 66.2 99.4

51 36.6 29.1 43.7



#16

Acetone

Concen: 252.511 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011345.D

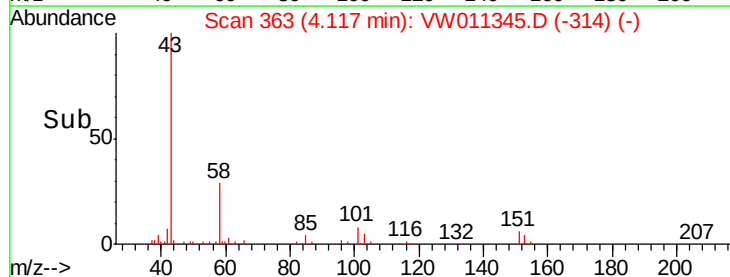
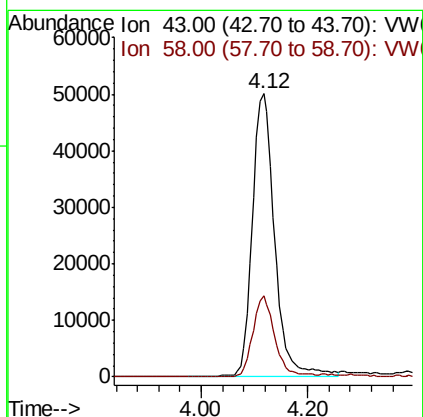
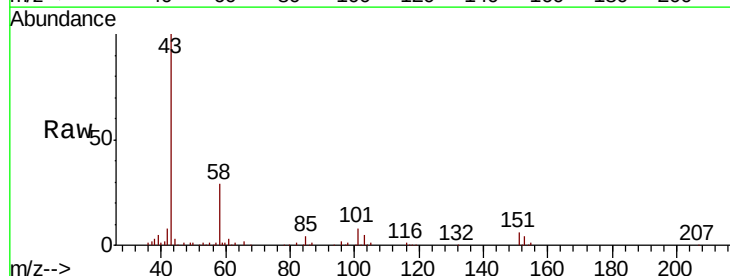
Acq: 18 Jul 2019 20:14

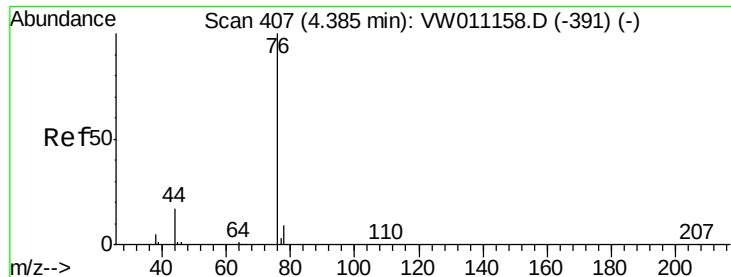
Tgt Ion: 43 Resp: 145291

Ion Ratio Lower Upper

43 100

58 28.3 21.8 32.6

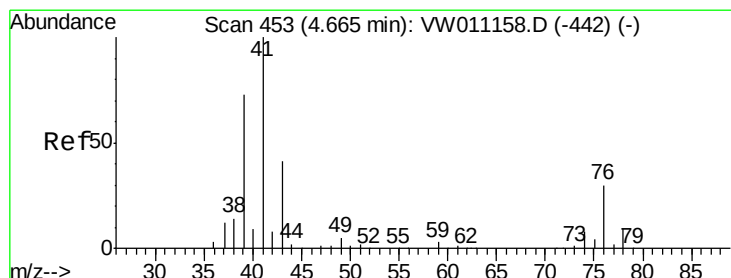
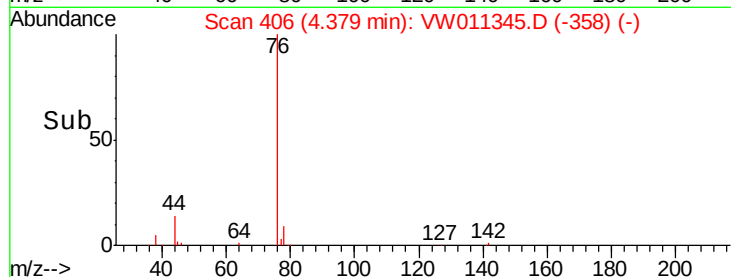
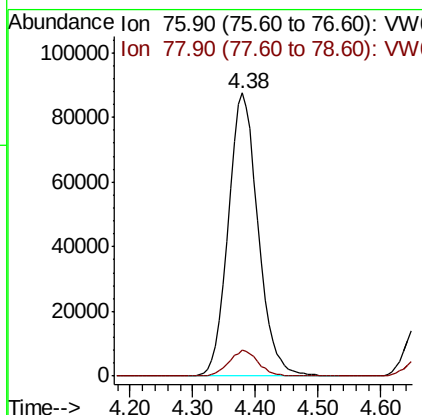
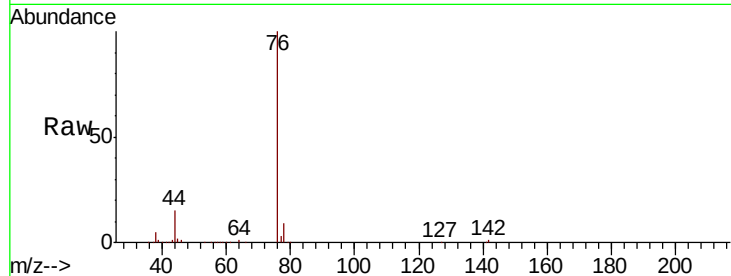




#17  
Carbon Disulfide  
Concen: 44.912 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

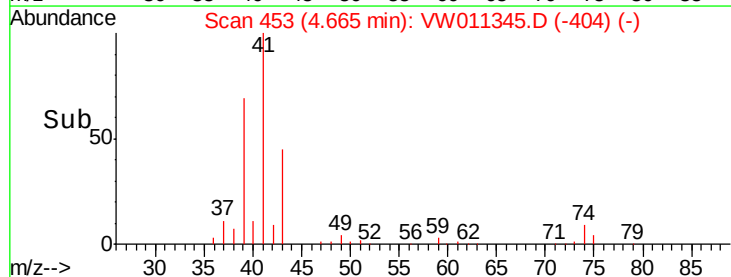
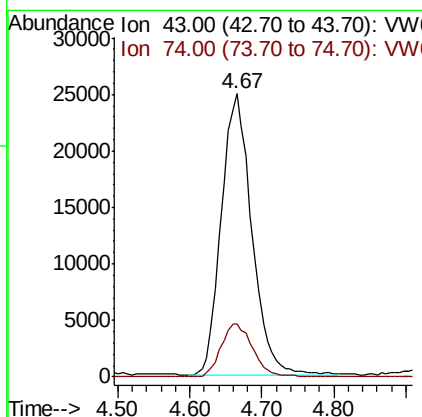
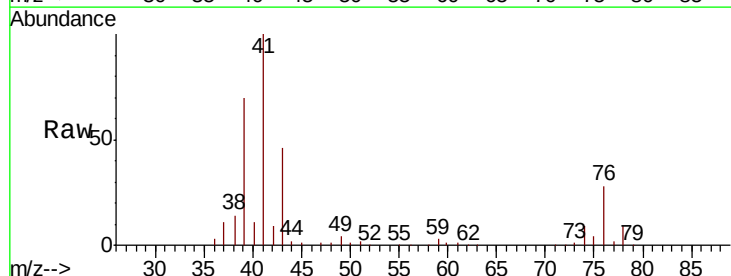
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

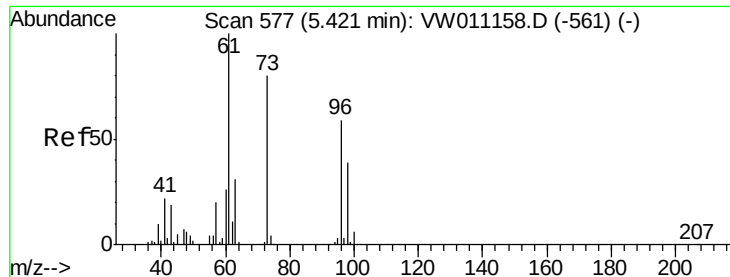
Tot Ion: 76 Resp: 287864  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7



#18  
Methyl Acetate  
Concen: 44.669 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 43 Resp: 73336  
Ion Ratio Lower Upper  
43 100  
74 19.5 15.7 23.5

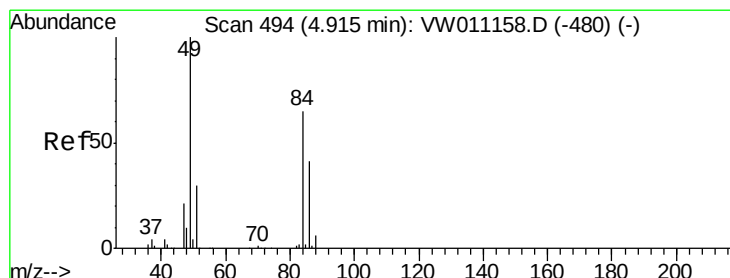
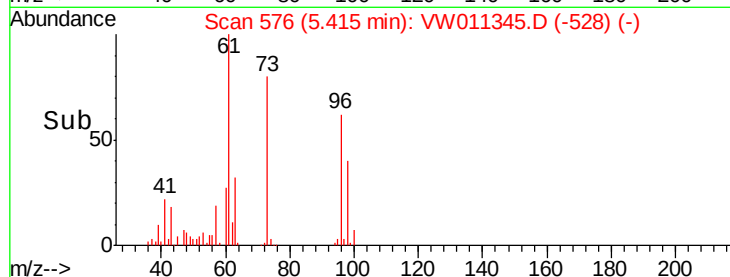
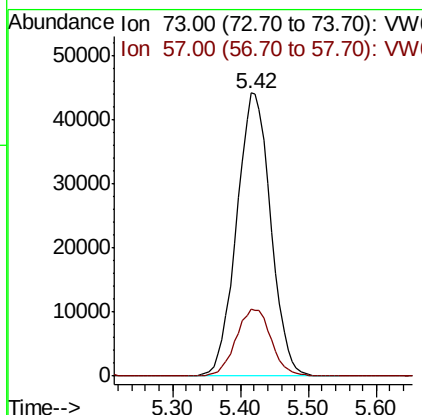
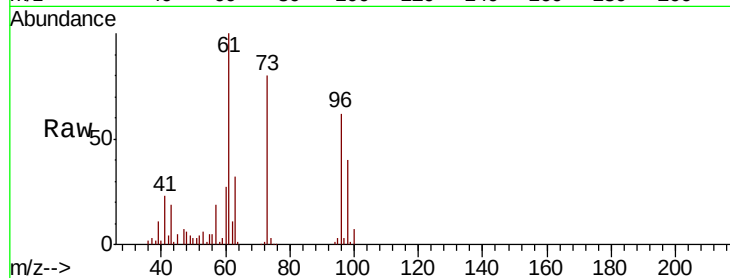




#19  
Methyl tert-butyl Ether  
Concen: 47.979 ug/l  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

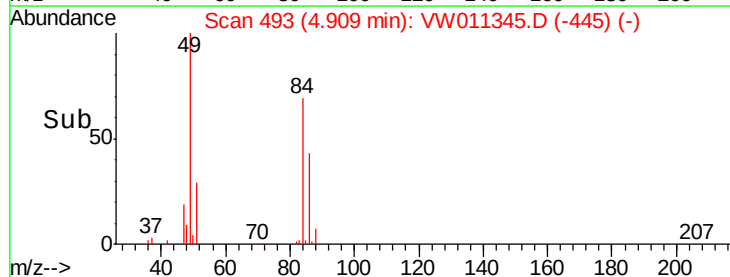
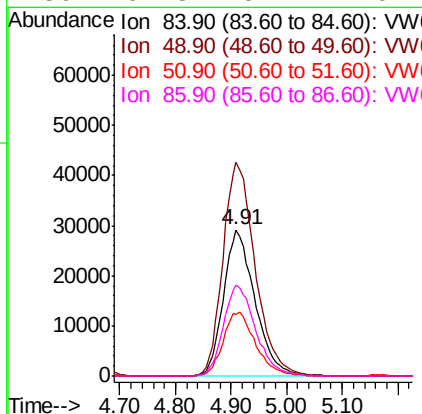
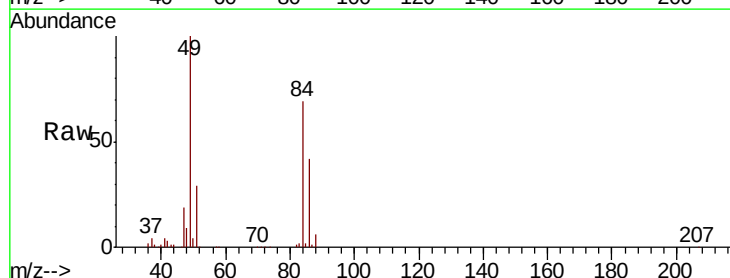
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

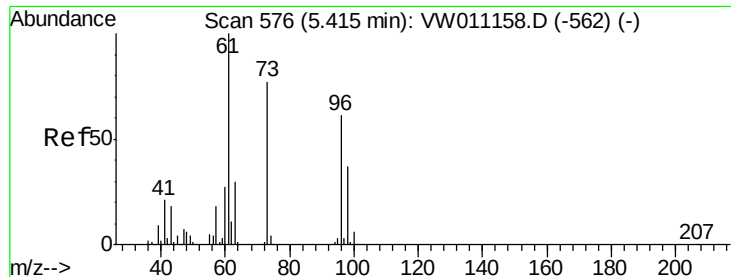
Tot Ion: 73 Resp: 153912  
Ion Ratio Lower Upper  
73 100  
57 23.9 19.7 29.5



#20  
Methylene Chloride  
Concen: 50.176 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 84 Resp: 113892  
Ion Ratio Lower Upper  
84 100  
49 145.8 123.8 185.6  
51 41.9 37.4 56.2  
86 61.8 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 47.956 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

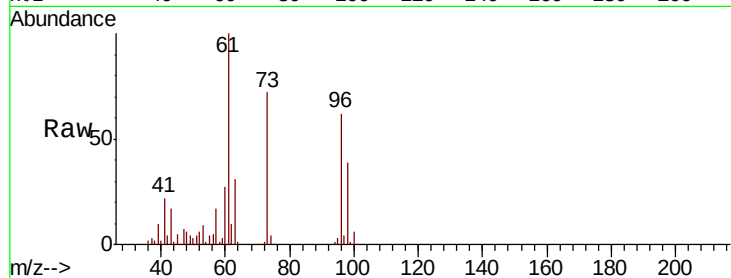
Tot Ion: 96 Resp: 105351

Ion Ratio Lower Upper

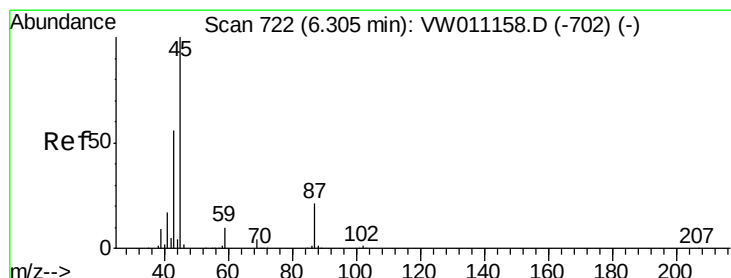
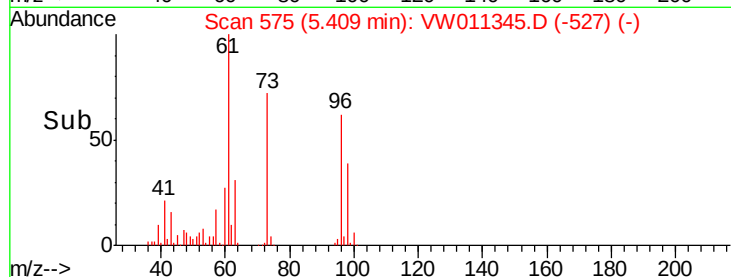
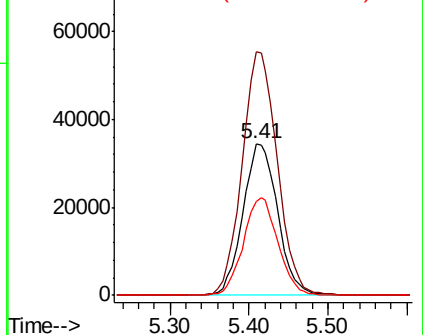
96 100

61 160.4 132.2 198.2

98 62.0 49.4 74.0



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



#22

Diisopropyl ether

Concen: 49.468 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Tgt Ion: 45 Resp: 410189

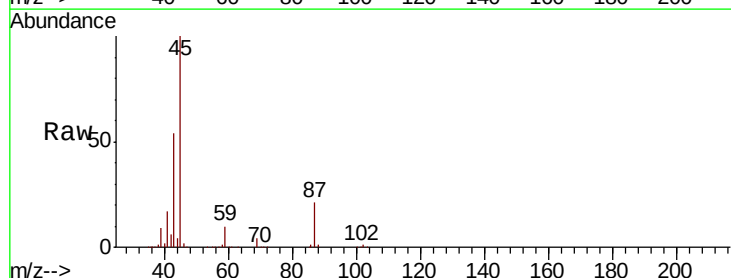
Ion Ratio Lower Upper

45 100

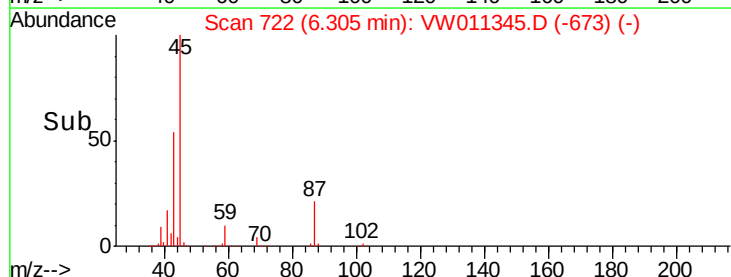
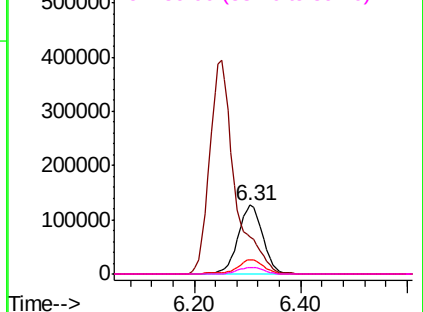
43 53.6 44.6 66.8

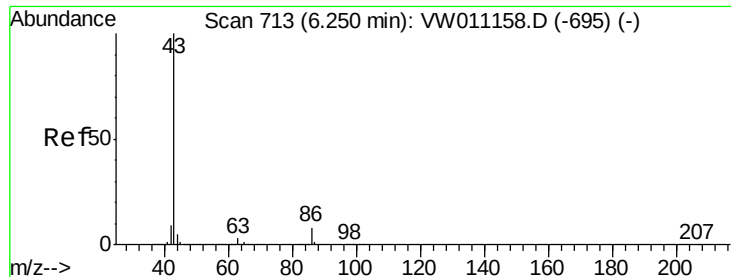
87 20.7 17.3 25.9

59 10.0 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

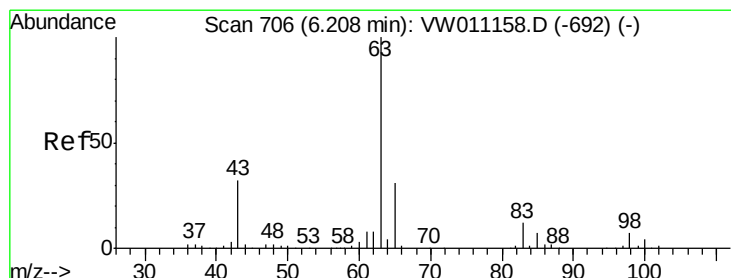
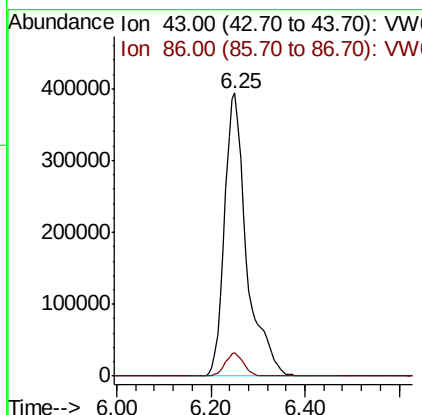
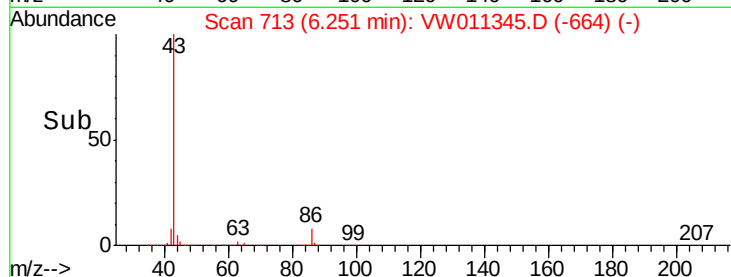
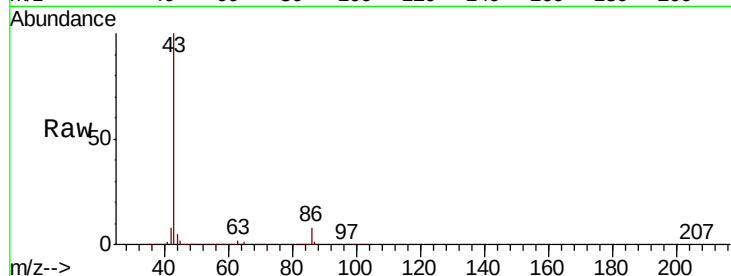




#23  
 Vinyl Acetate  
 Concen: 250.369 ug/l  
 RT: 6.25 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

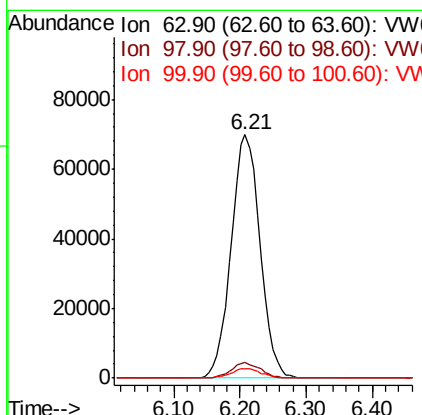
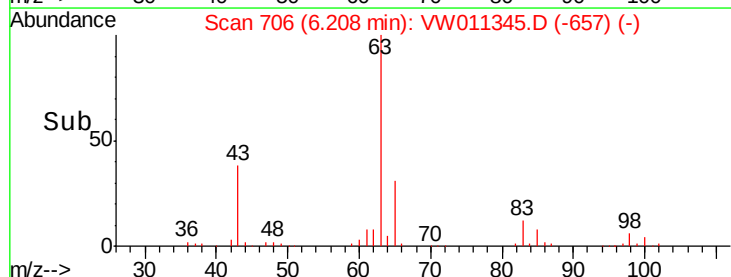
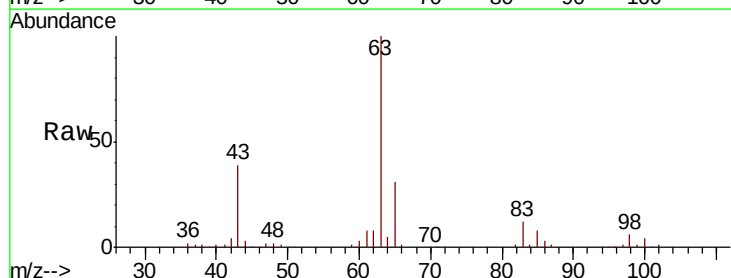
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion: 43 Resp: 1284813  
 Ion Ratio Lower Upper  
 43 100  
 86 8.3 6.5 9.7

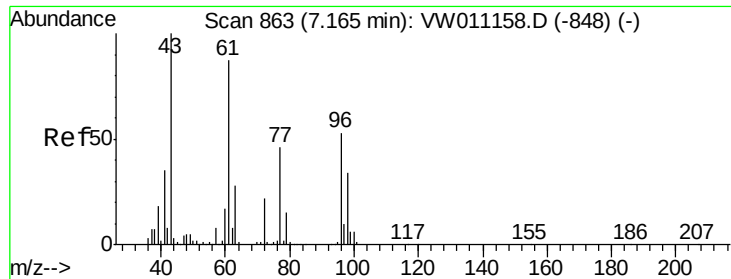


#24  
 1,1-Dichloroethane  
 Concen: 48.655 ug/l  
 RT: 6.21 min Scan# 706  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 63 Resp: 211858  
 Ion Ratio Lower Upper  
 63 100  
 98 6.3 3.3 9.9  
 100 3.8 2.1 6.2







#25

2-Butanone

Concen: 249.955 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

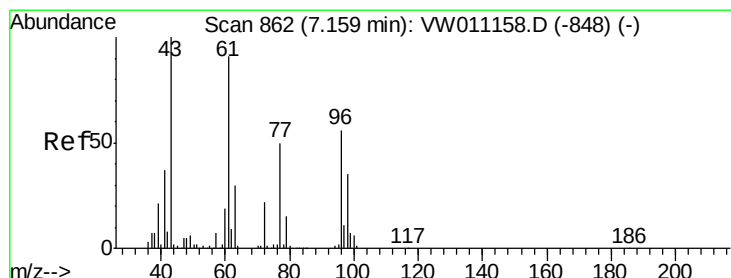
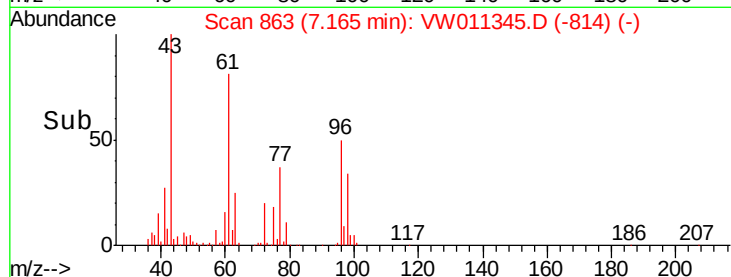
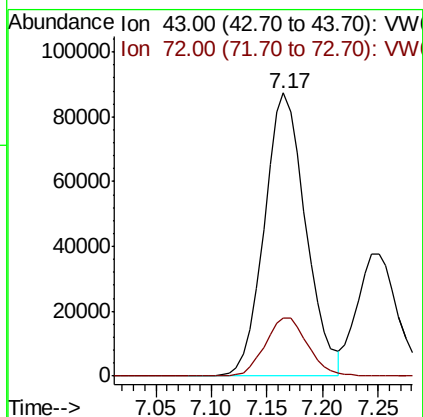
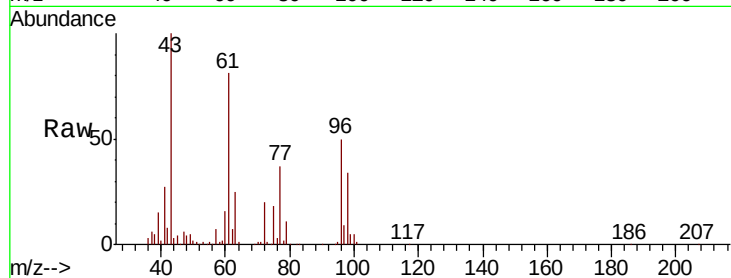
VSTDCCC050EC

Tot Ion: 43 Resp: 225760

Ion Ratio Lower Upper

43 100

72 20.3 17.6 26.4



#26

2,2-Dichloropropane

Concen: 43.028 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW011345.D

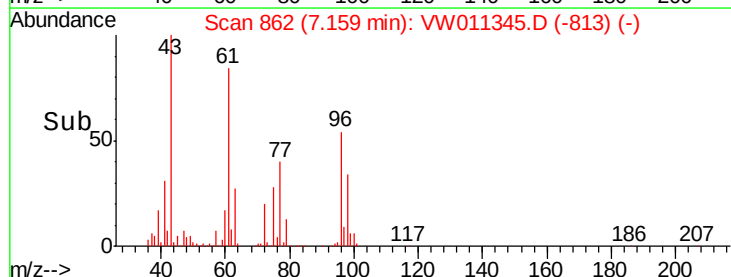
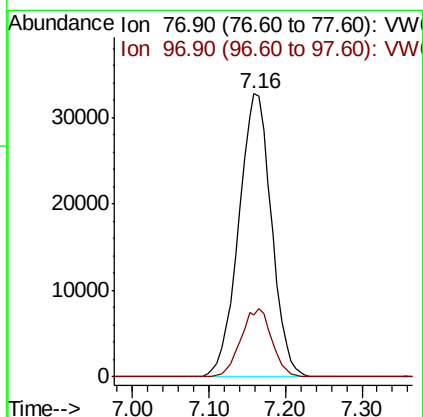
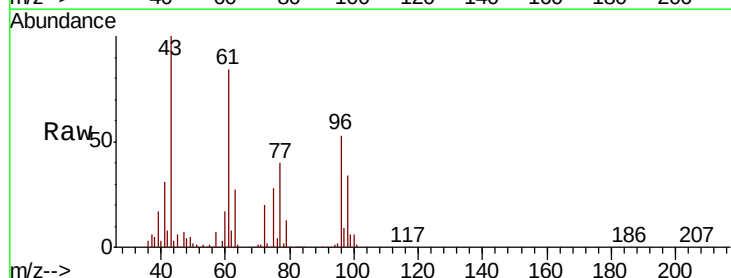
Acq: 18 Jul 2019 20:14

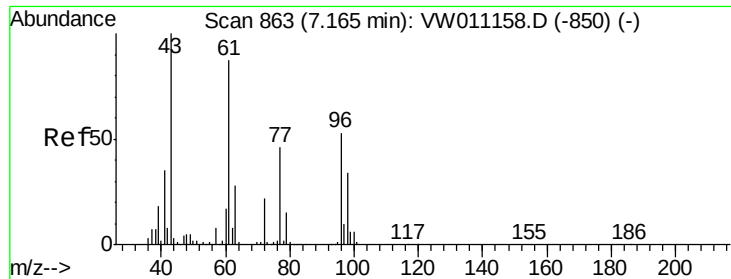
Tgt Ion: 77 Resp: 97389

Ion Ratio Lower Upper

77 100

97 22.9 11.2 33.5



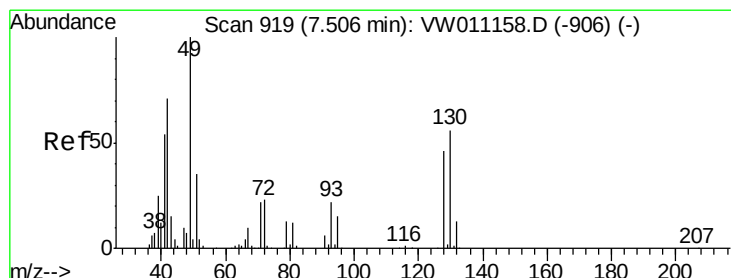
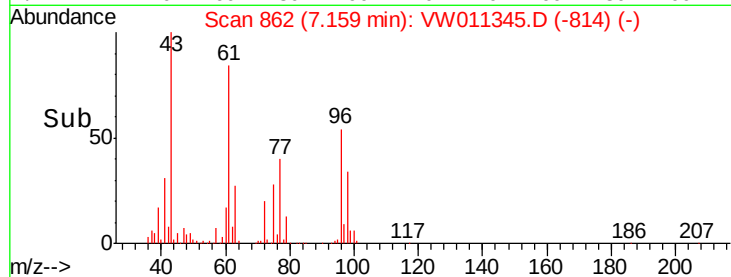
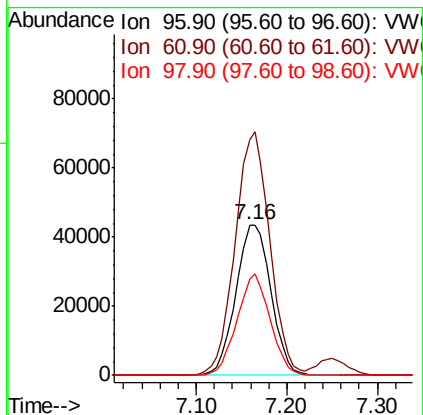
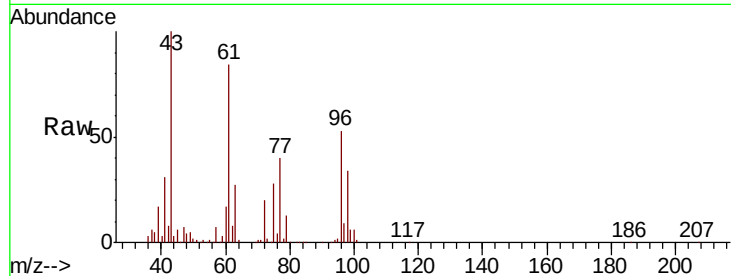


#27

cis-1,2-Dichloroethene  
 Concen: 49.301 ug/l  
 RT: 7.16 min Scan# 862  
 Delta R.T. -0.01 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

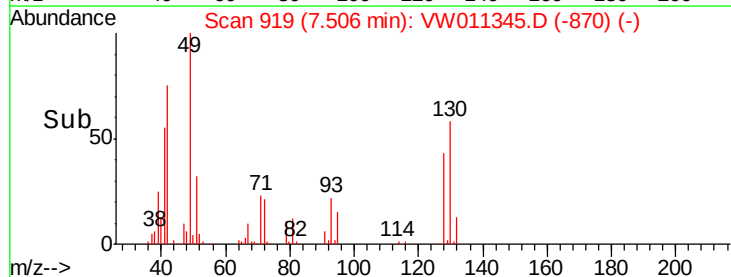
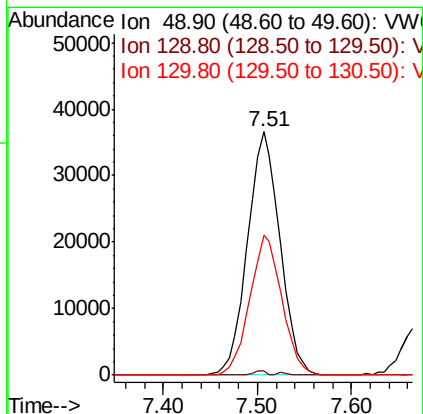
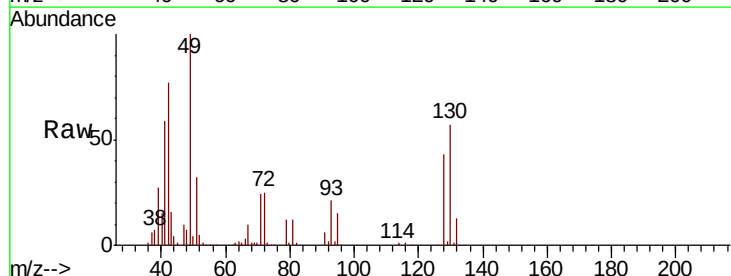
| Tot Ion | 96    | Resp  | 116832 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 160.1 | 0.0   | 325.6  |
| 98      | 63.5  | 0.0   | 128.2  |

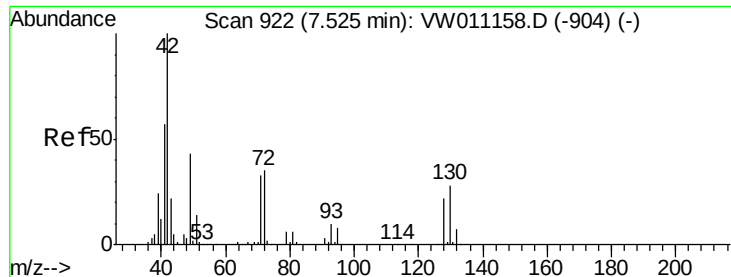


#28

Bromochloromethane  
 Concen: 44.698 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

| Tgt Ion | 49    | Resp  | 88496 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 0.7   | 0.0   | 1.4   |
| 130     | 56.7  | 45.8  | 68.8  |

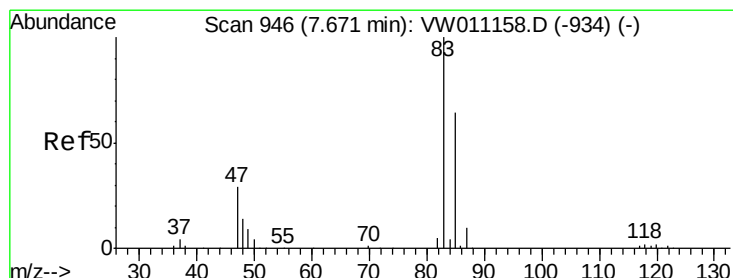
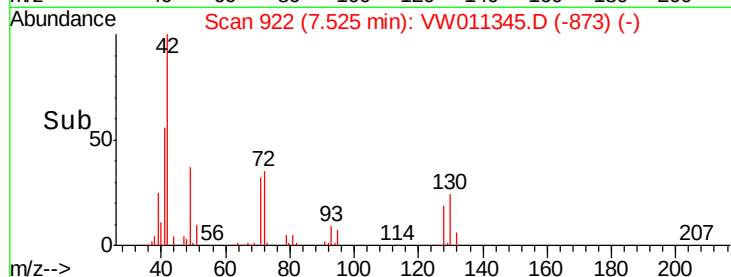
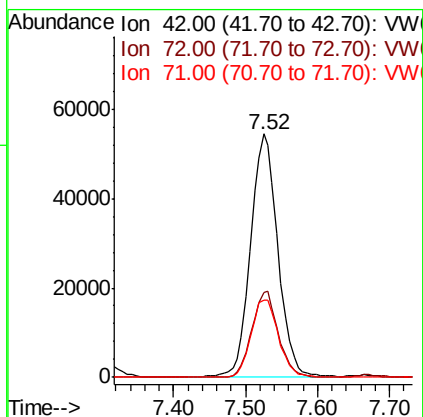
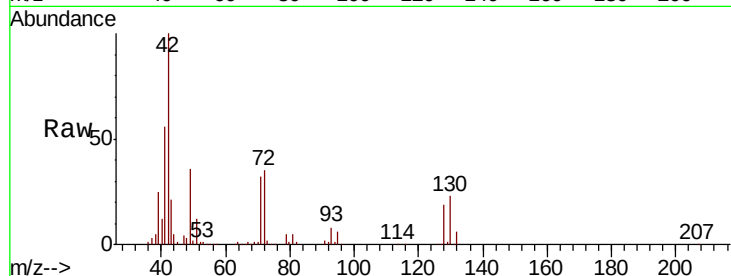




#29  
Tetrahydrofuran  
Concen: 240.915 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

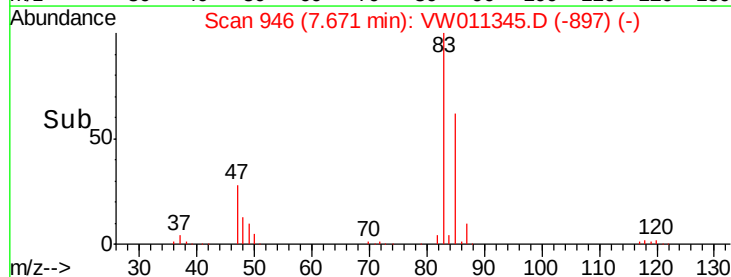
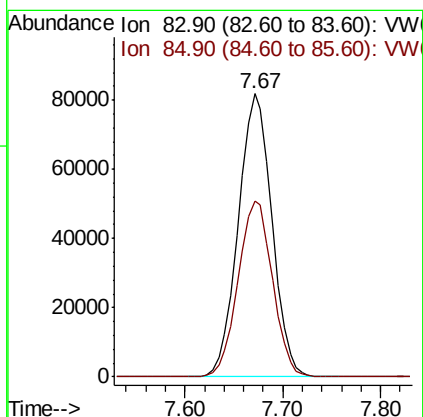
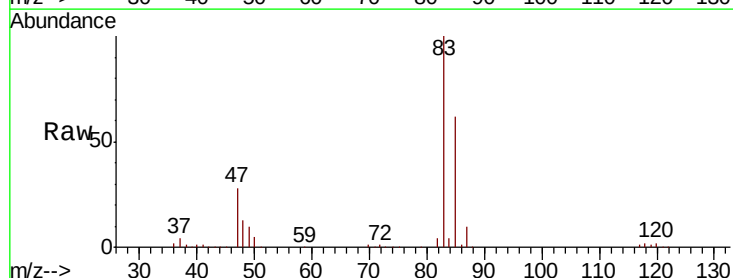
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

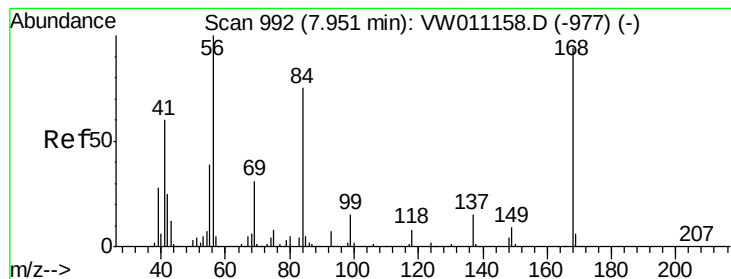
Tot Ion: 42 Resp: 142679  
Ion Ratio Lower Upper  
42 100  
72 34.4 27.4 41.2  
71 32.4 25.9 38.9



#30  
Chloroform  
Concen: 48.363 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 83 Resp: 195024  
Ion Ratio Lower Upper  
83 100  
85 62.2 51.4 77.2





#31

Cyclohexane

Concen: 44.884 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

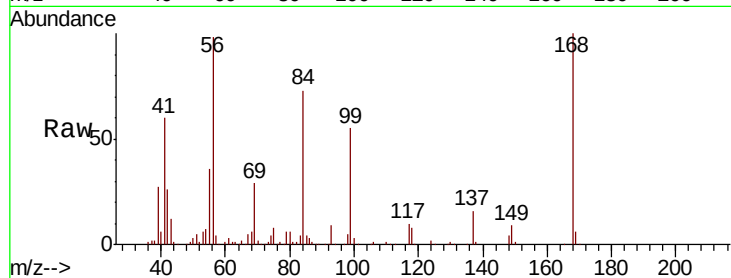
Tot Ion: 56 Resp: 207917

Ion Ratio Lower Upper

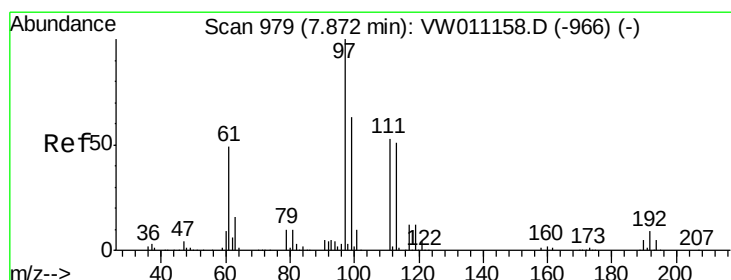
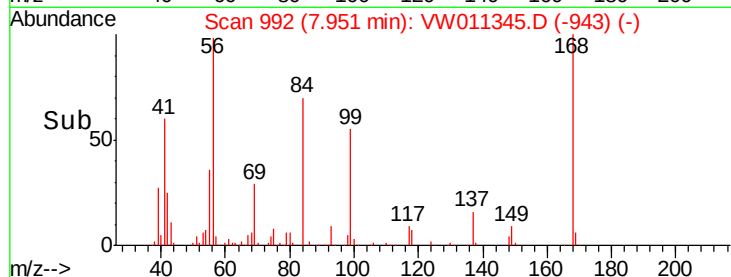
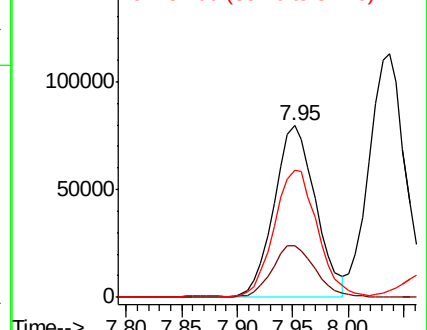
56 100

69 29.8 24.6 36.8

84 72.6 60.1 90.1



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: 46.645 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

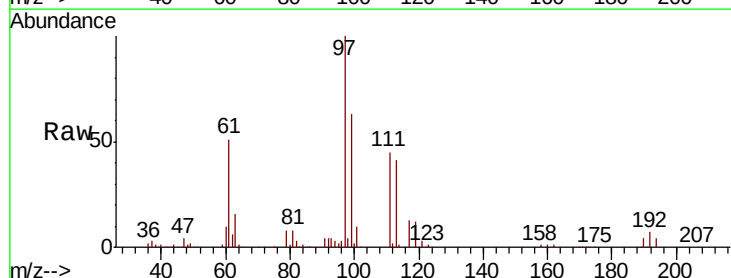
Tgt Ion: 97 Resp: 143082

Ion Ratio Lower Upper

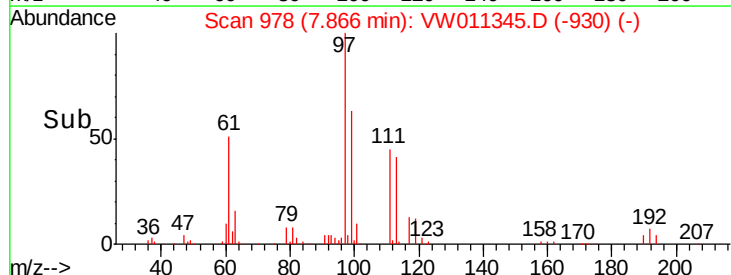
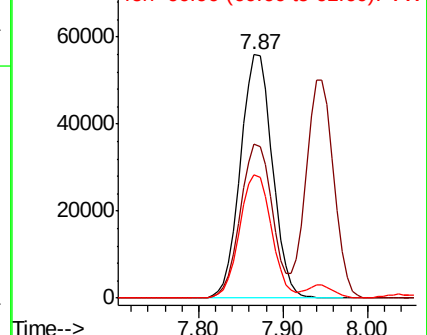
97 100

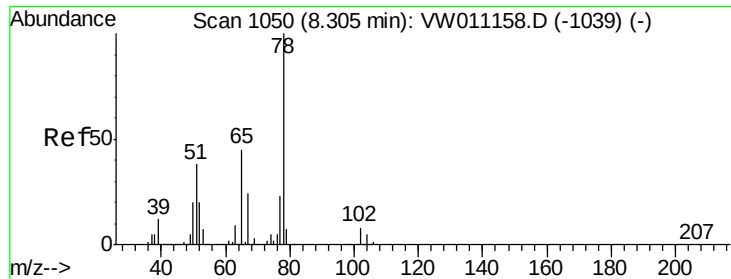
99 64.5 51.0 76.4

61 50.8 40.4 60.6



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

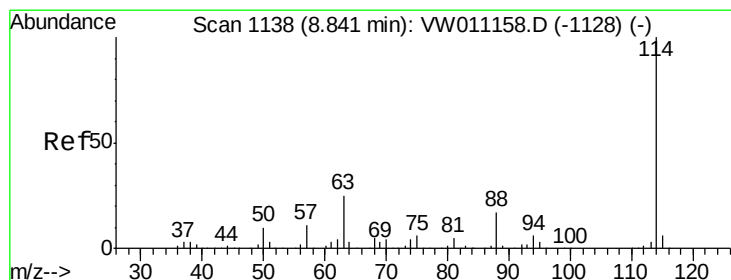
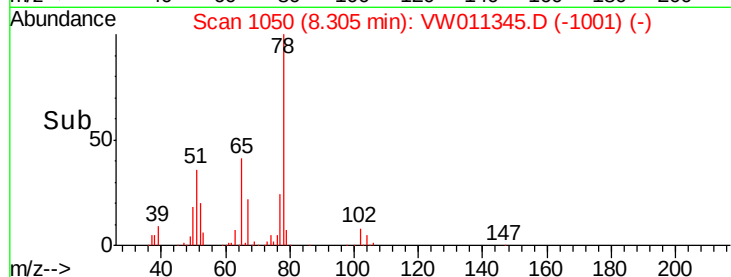
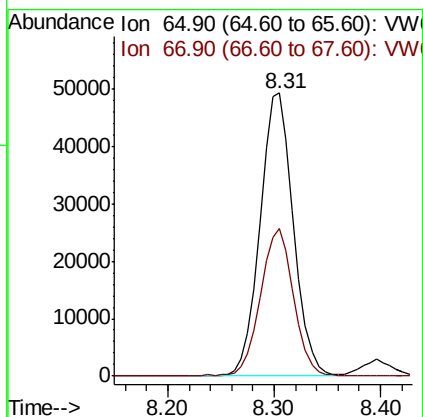
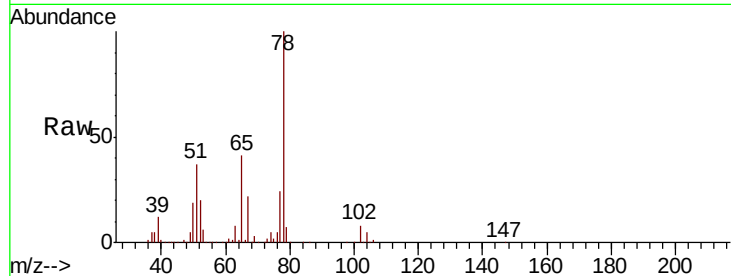




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.022 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

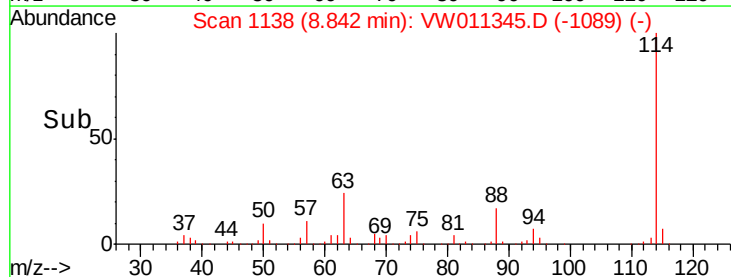
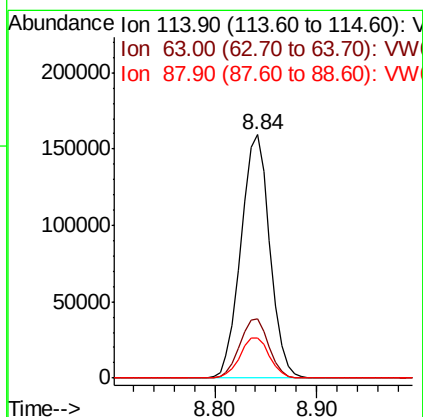
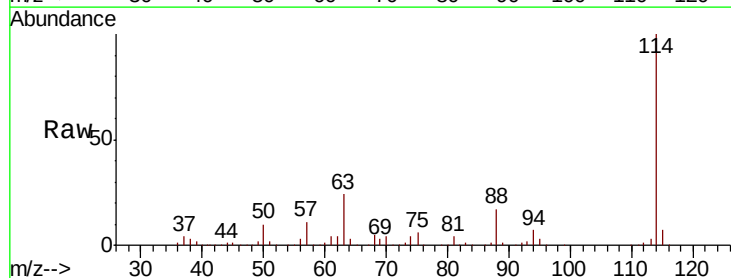
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

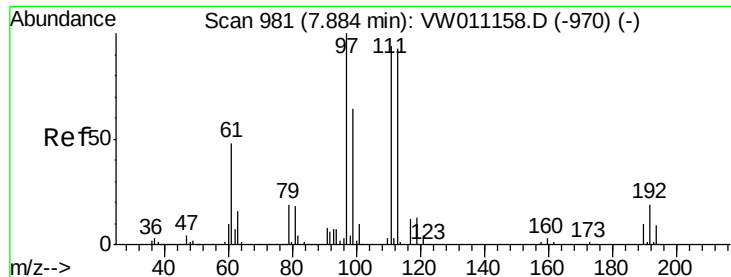
Tot Ion: 65 Resp: 107664  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 114 Resp: 314267  
 Ion Ratio Lower Upper  
 114 100  
 63 24.3 0.0 50.8  
 88 16.5 0.0 34.2

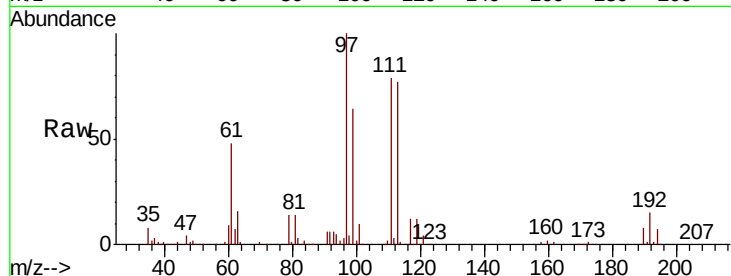




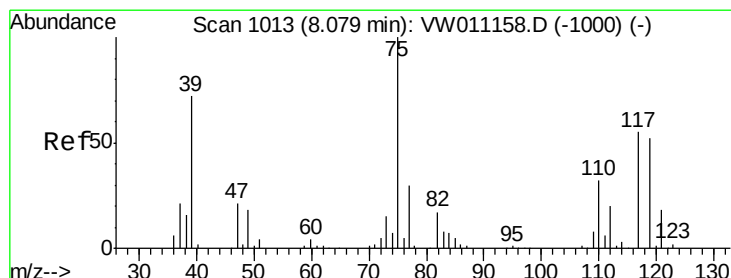
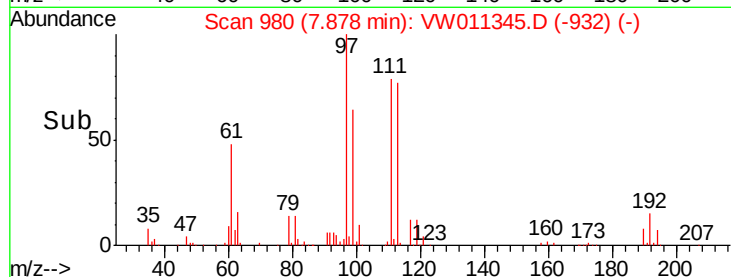
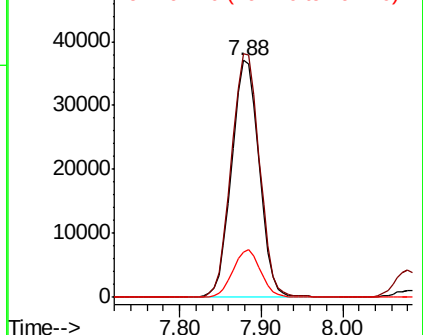
#35  
 Dibromofluoromethane  
 Concen: 46.108 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion:113 Resp: 86368  
 Ion Ratio Lower Upper  
 113 100  
 111 105.1 82.4 123.6  
 192 20.3 15.8 23.8

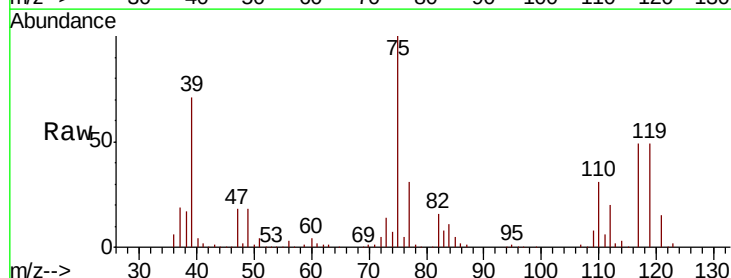


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

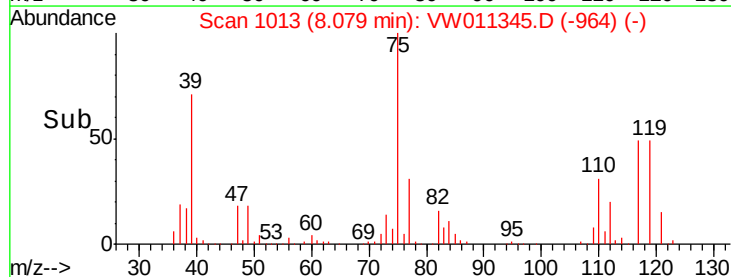
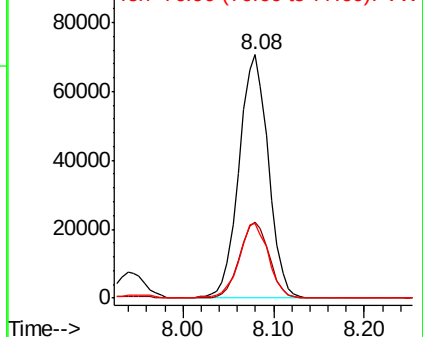


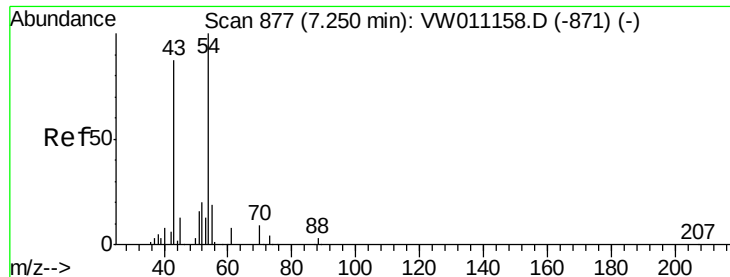
#36  
 1,1-Dichloropropene  
 Concen: 47.274 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 75 Resp: 158210  
 Ion Ratio Lower Upper  
 75 100  
 110 31.4 15.9 47.6  
 77 31.0 24.6 36.8



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

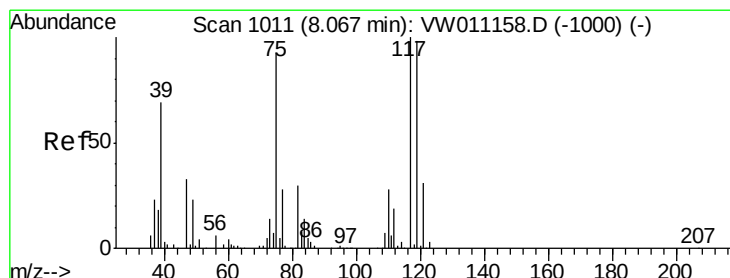
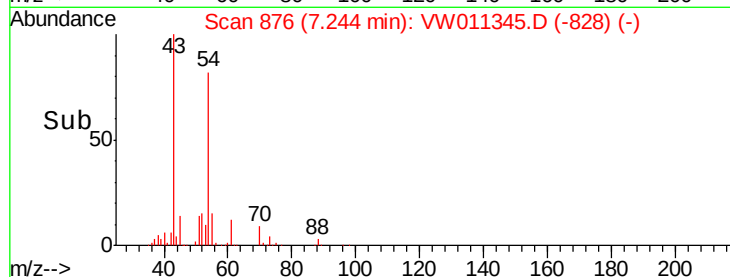
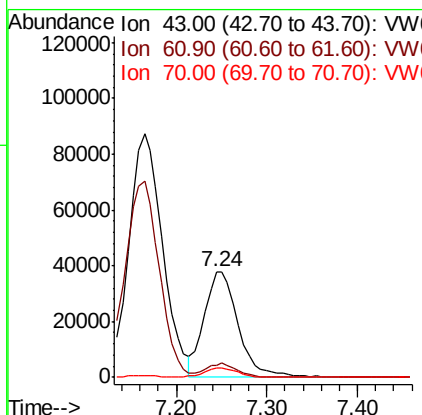
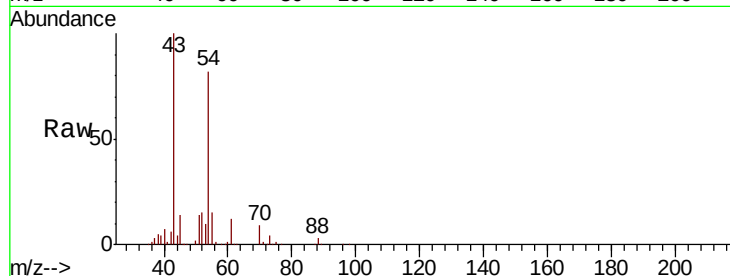




#37  
Ethyl Acetate  
Concen: 48.511 ug/l  
RT: 7.24 min Scan# 876  
Delta R.T. -0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

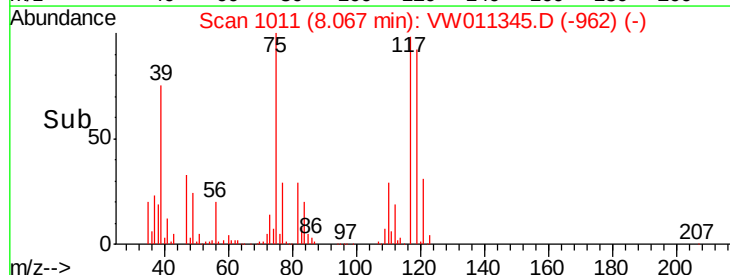
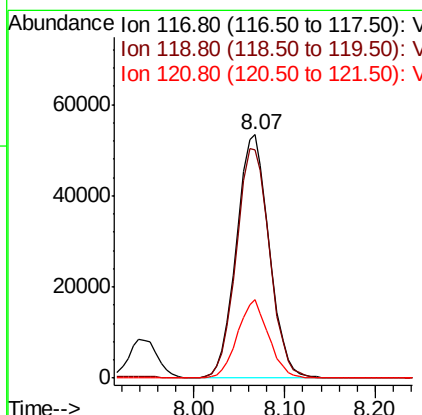
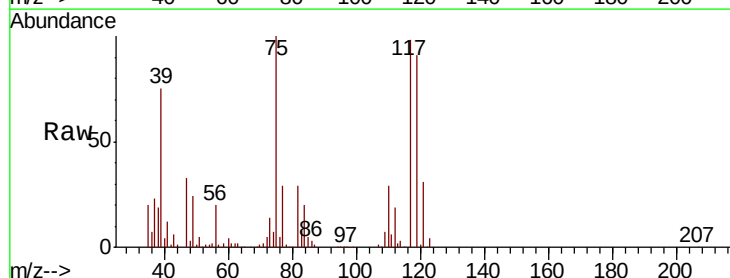
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

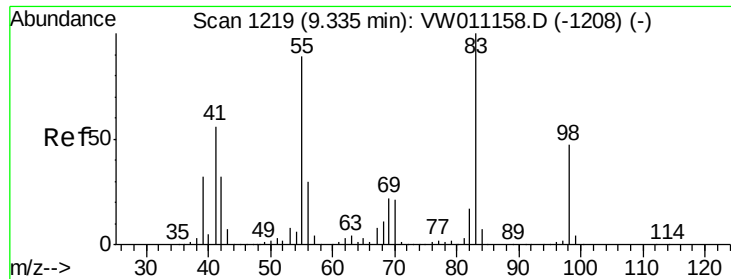
Tot Ion: 43 Resp: 97544  
Ion Ratio Lower Upper  
43 100  
61 12.0 9.5 14.3  
70 8.9 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 47.222 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 117 Resp: 133970  
Ion Ratio Lower Upper  
117 100  
119 93.8 78.1 117.1  
121 32.0 25.1 37.7

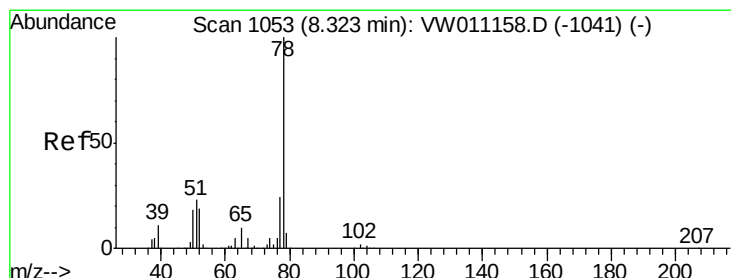
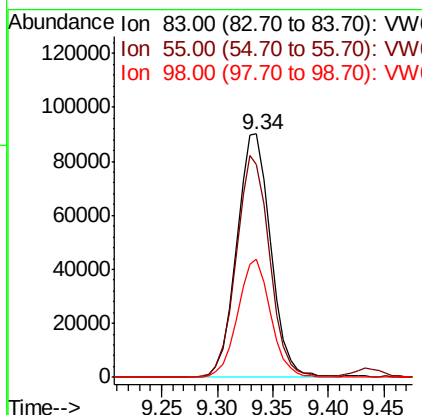
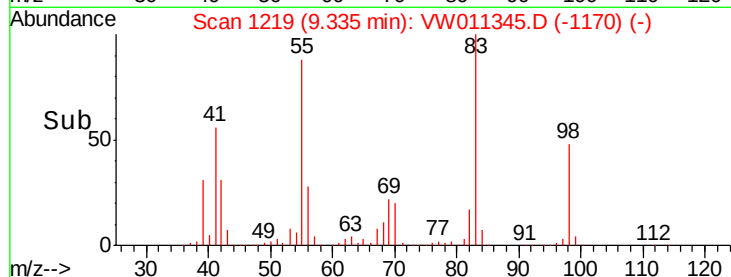
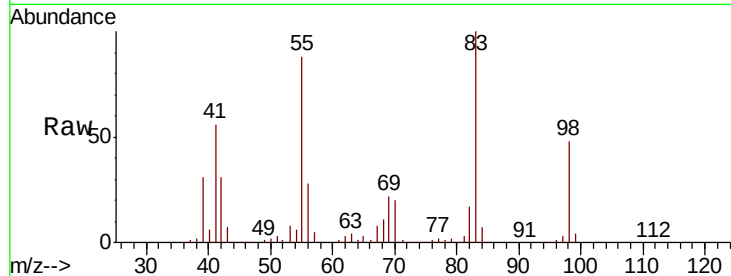




#39  
Methylvlcyclohexane  
Concen: 47.031 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

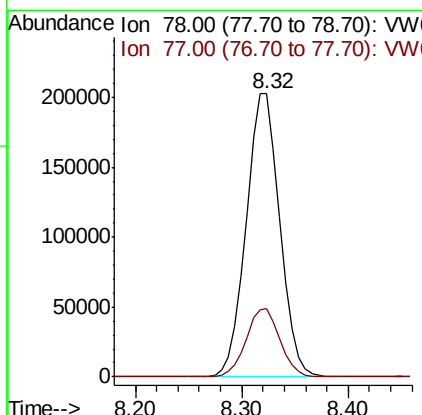
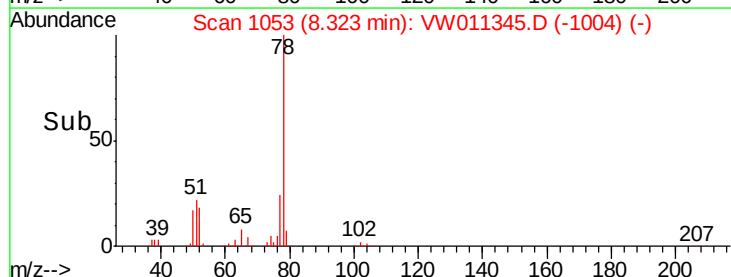
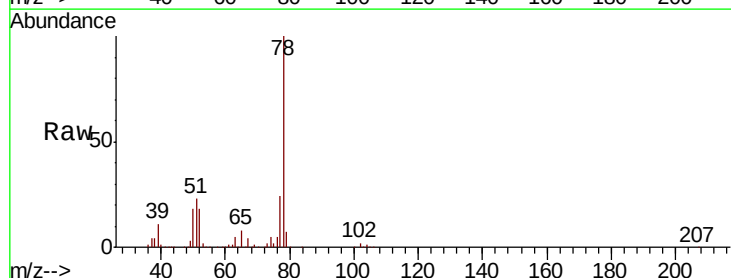
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 83 Resp: 190771  
Ion Ratio Lower Upper  
83 100  
55 87.5 71.2 106.8  
98 48.3 37.5 56.3

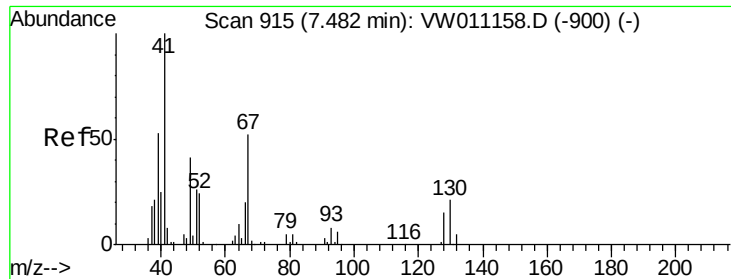


#40  
Benzene  
Concen: 48.616 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 78 Resp: 449647  
Ion Ratio Lower Upper  
78 100  
77 24.2 19.0 28.6



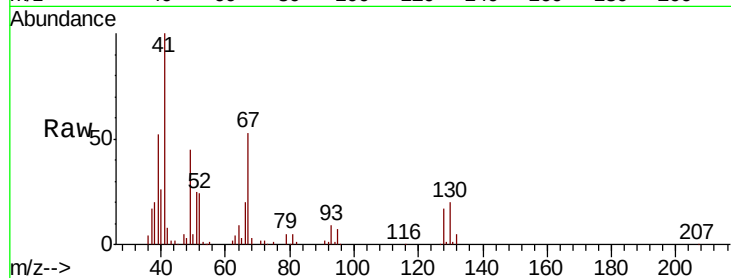




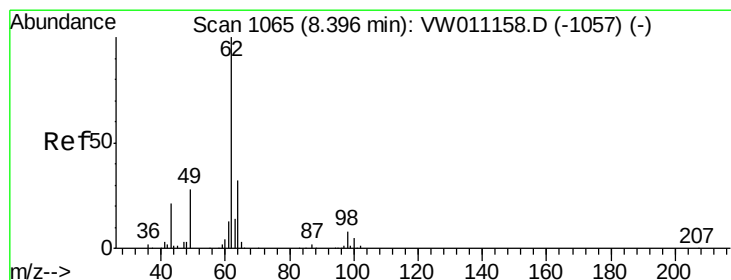
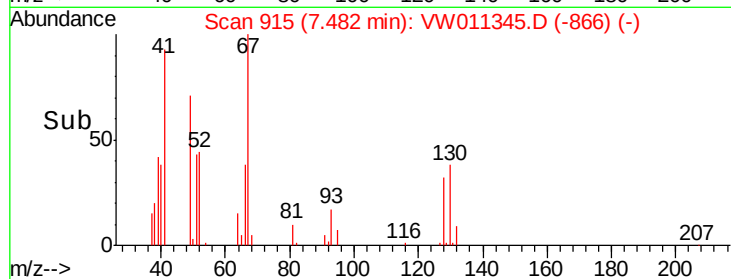
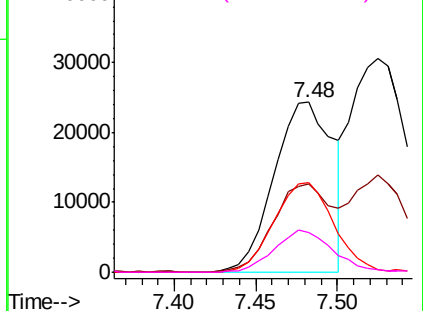
#41  
Methacrylonitrile  
Concen: 53.052 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 61011 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 51.3  | 48.0  | 72.0  |
| 67       | 54.1  | 49.7  | 74.5  |
| 52       | 25.3  | 23.4  | 35.0  |

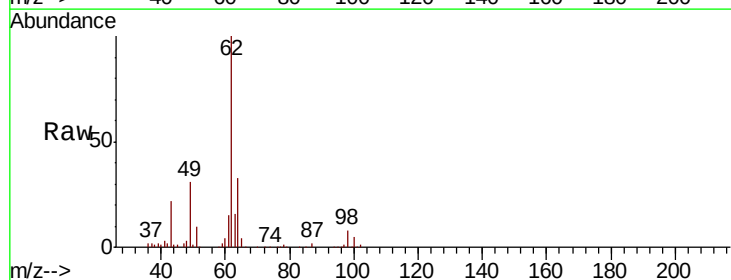


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

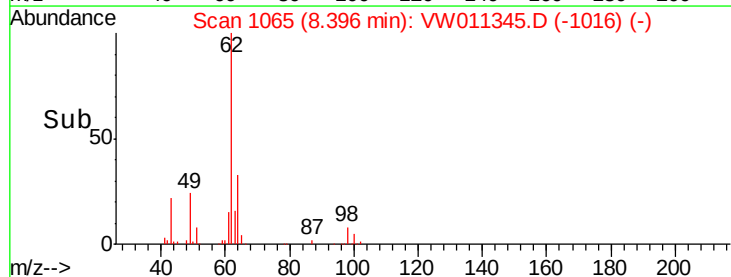
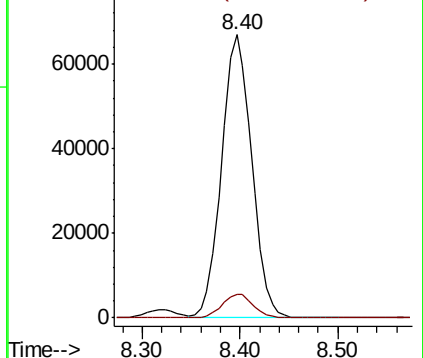


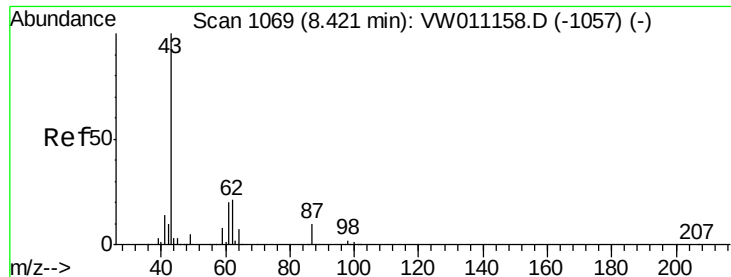
#42  
1,2-Dichloroethane  
Concen: 47.764 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 143305 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.5   | 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: 48.064 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

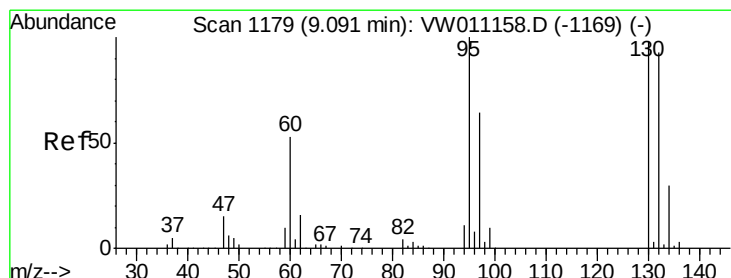
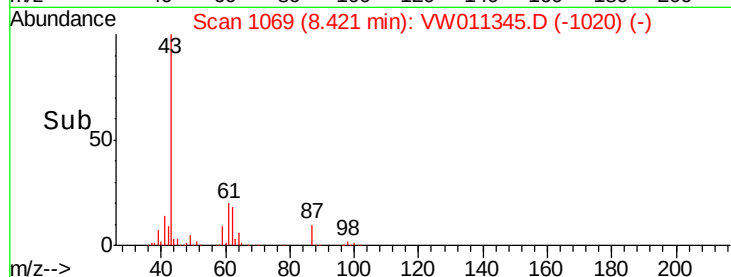
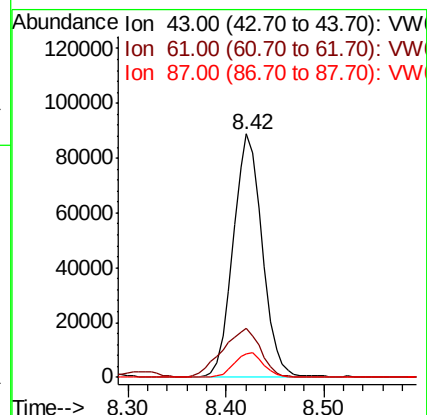
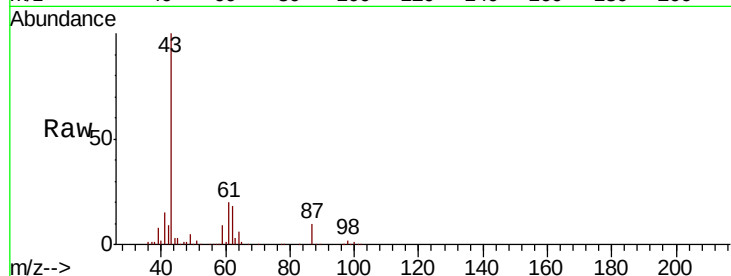
Tot Ion: 43 Resp: 182464

Ion Ratio Lower Upper

43 100

61 26.7 20.7 31.1

87 10.3 8.1 12.1



#44

Trichloroethene

Concen: 47.991 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW011345.D

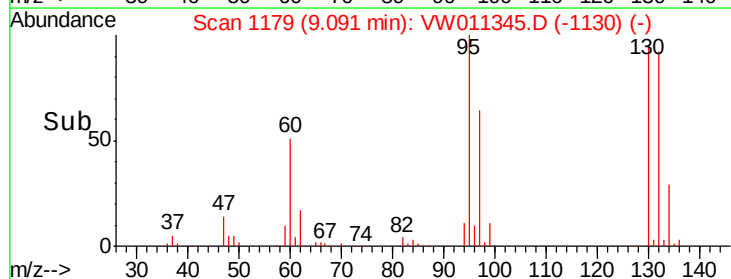
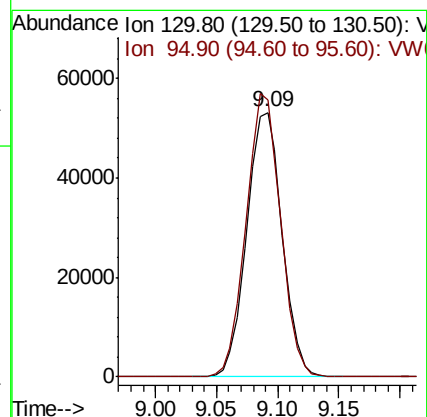
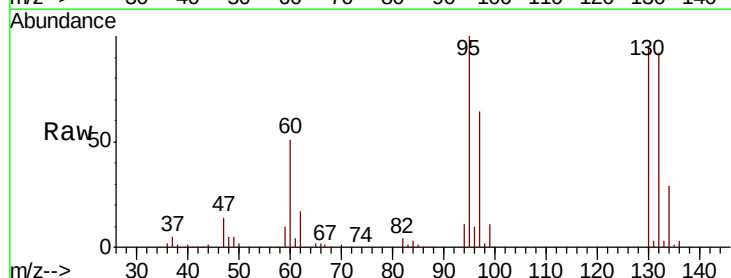
Acq: 18 Jul 2019 20:14

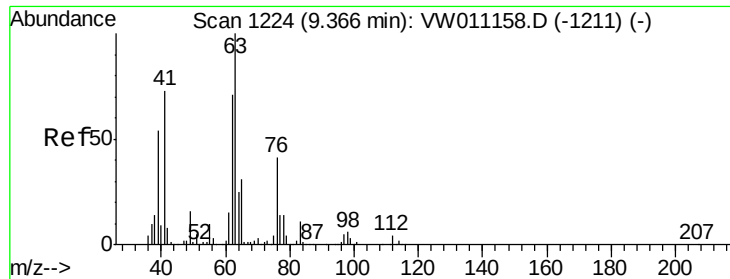
Tgt Ion: 130 Resp: 106812

Ion Ratio Lower Upper

130 100

95 104.8 0.0 203.6





#45

1,2-Dichloropropane

Concen: 48.997 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

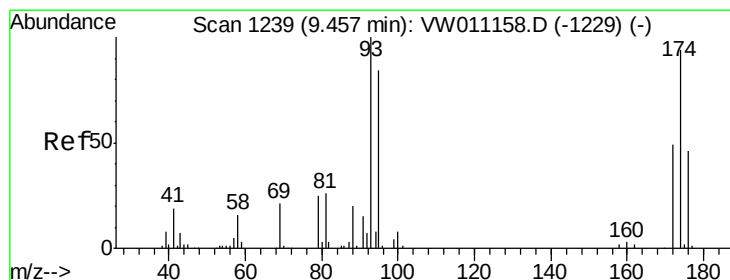
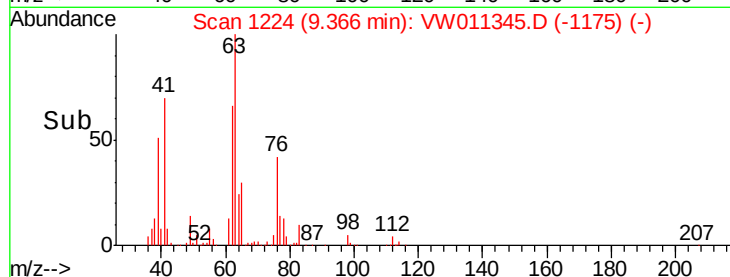
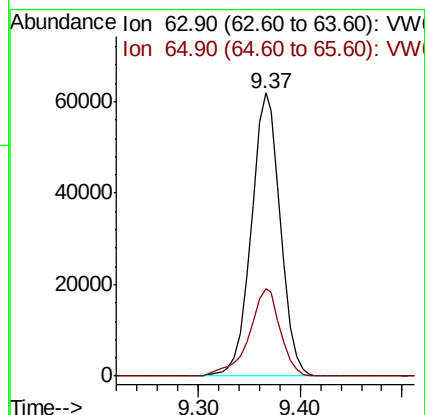
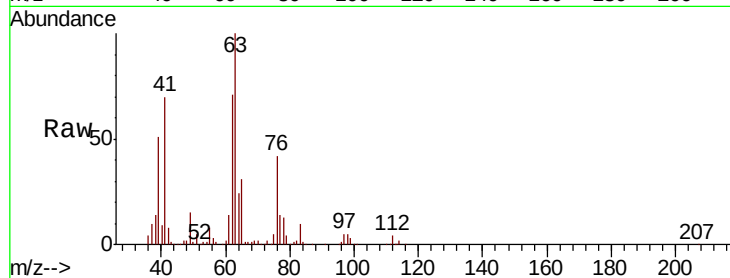
VSTDCCC050EC

Tot Ion: 63 Resp: 122716

Ion Ratio Lower Upper

63 100

65 31.0 24.4 36.6



#46

Dibromomethane

Concen: 48.108 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

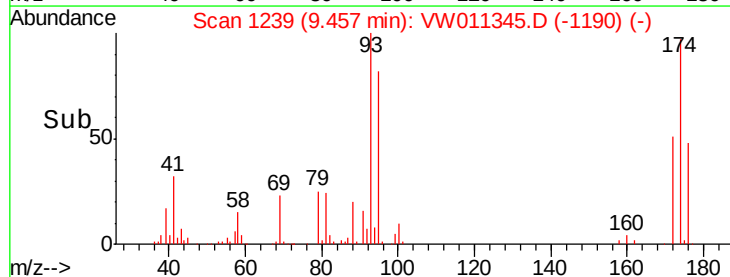
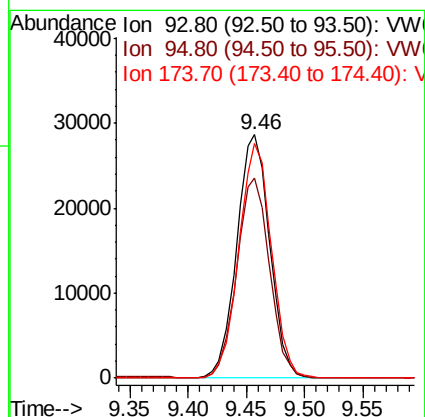
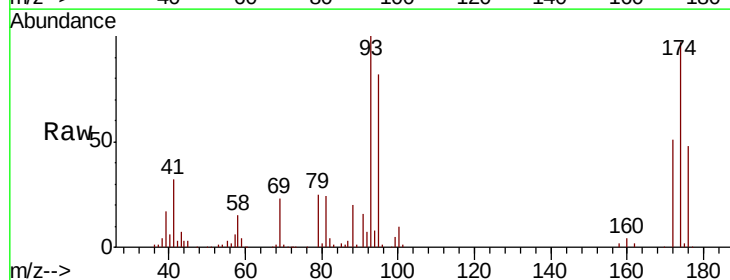
Tgt Ion: 93 Resp: 56600

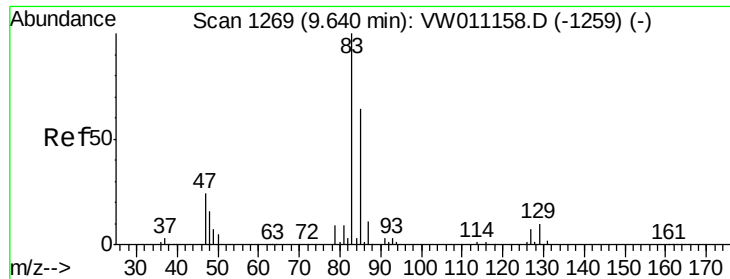
Ion Ratio Lower Upper

93 100

95 81.7 67.2 100.8

174 95.4 76.3 114.5

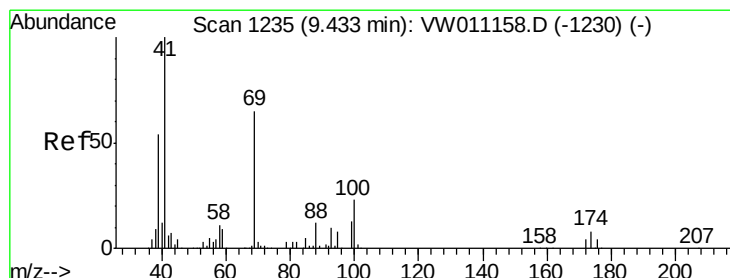
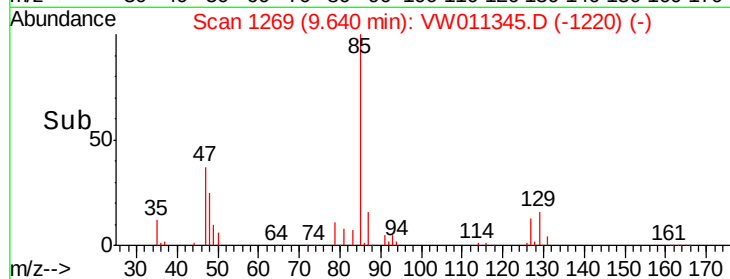
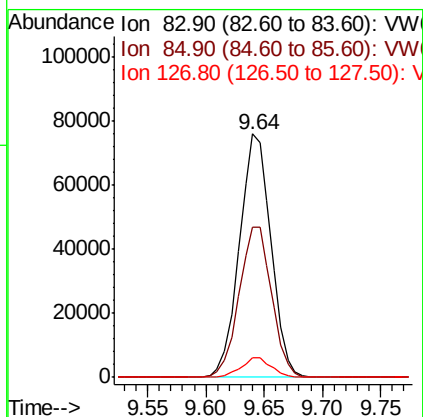
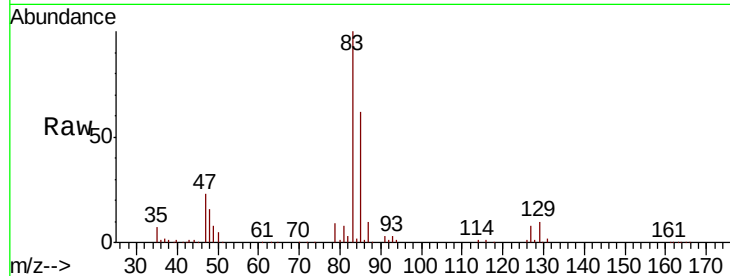




#47  
 Bromodichloromethane  
 Concen: 47.769 ug/l  
 RT: 9.64 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

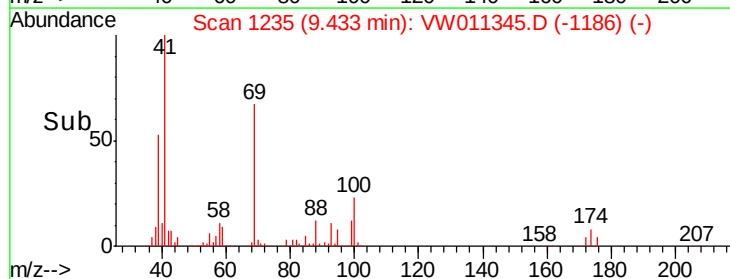
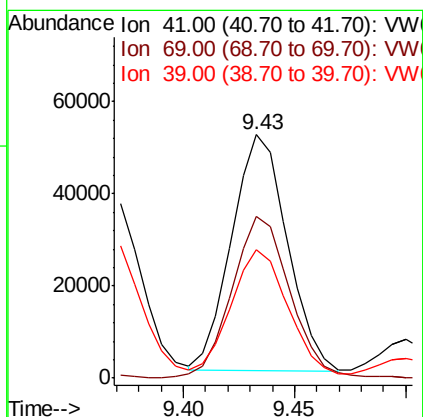
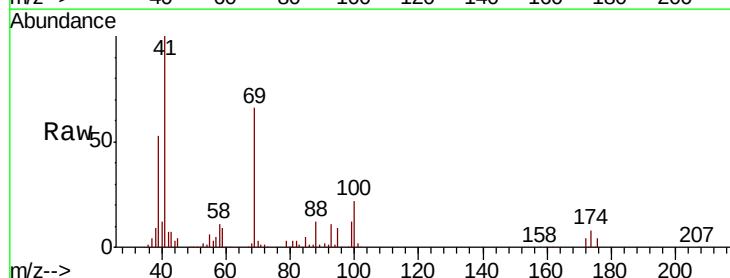
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

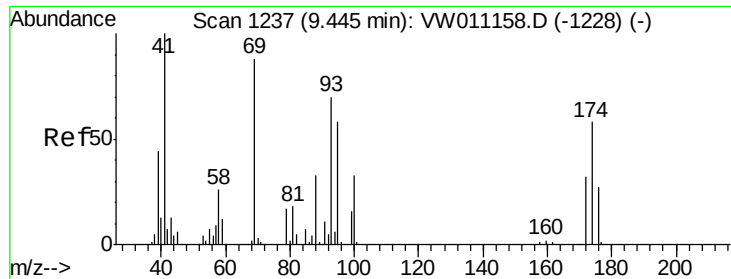
Tot Ion: 83 Resp: 143799  
 Ion Ratio Lower Upper  
 83 100  
 85 61.9 51.0 76.4  
 127 7.9 6.0 9.0



#48  
 Methyl methacrylate  
 Concen: 48.882 ug/l  
 RT: 9.43 min Scan# 1235  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 41 Resp: 89277  
 Ion Ratio Lower Upper  
 41 100  
 69 71.7 56.0 84.0  
 39 52.7 43.5 65.3

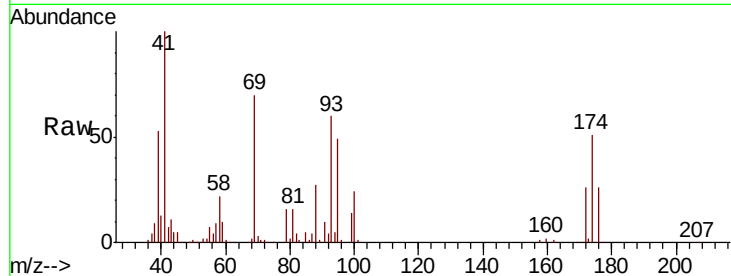




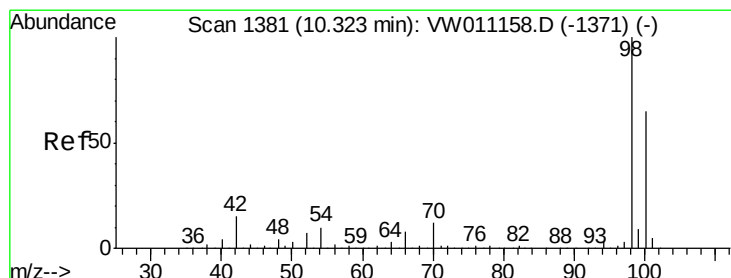
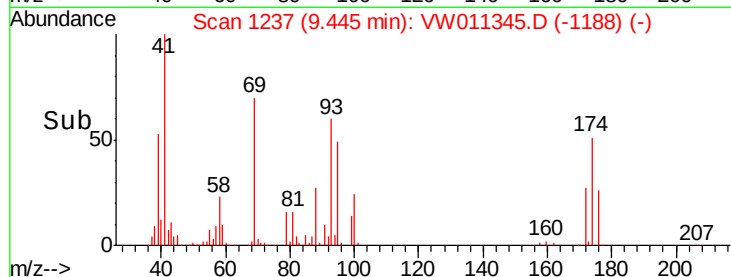
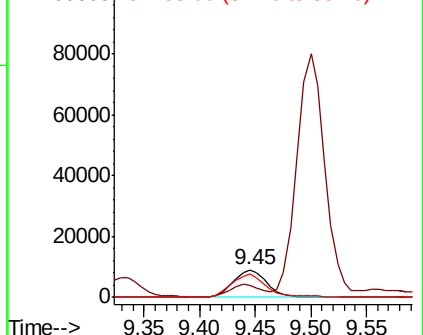
#49  
1,4-Dioxane  
Concen: 963.892 ug/l  
RT: 9.45 min Scan# 1237  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 88 Resp: 18929  
Ion Ratio Lower Upper  
88 100  
43 41.4 33.4 50.0  
58 87.9 64.5 96.7

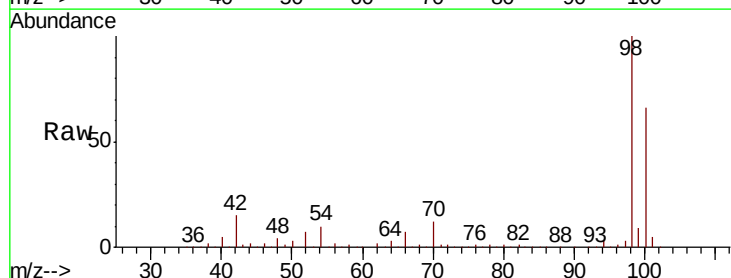


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

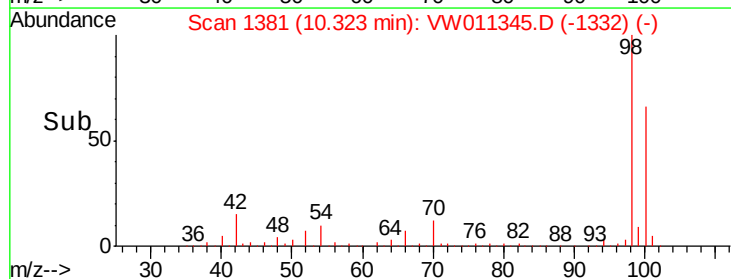
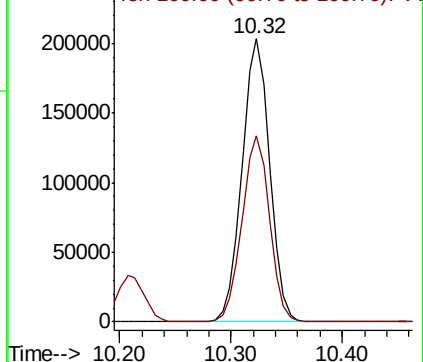


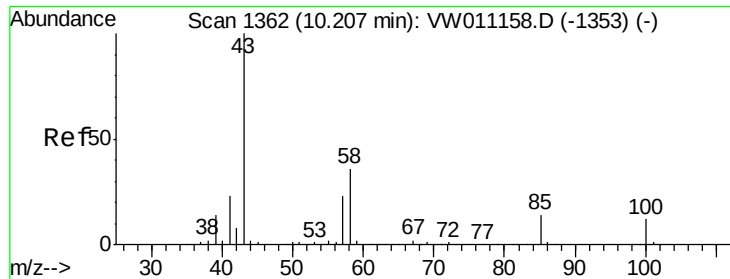
#50  
Toluene-d8  
Concen: 46.166 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 98 Resp: 349549  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.4 78.6



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

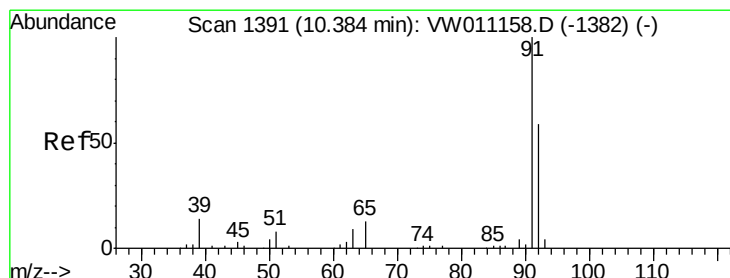
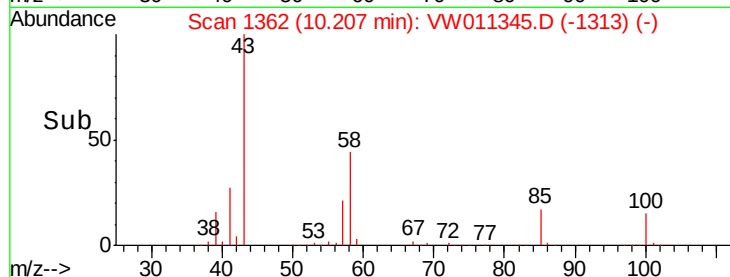
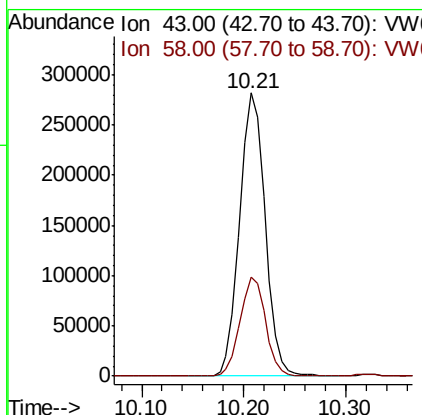
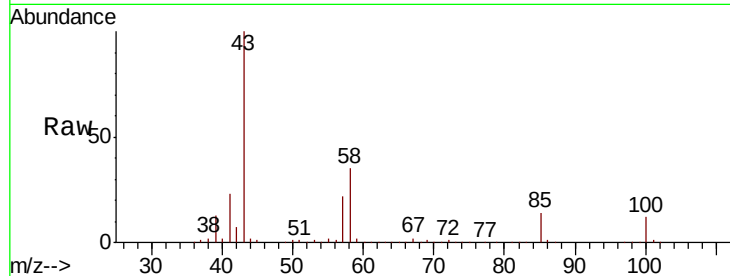




#51  
4-Methyl-2-Pentanone  
Concen: 247.350 ug/l  
RT: 10.21 min Scan# 1362  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

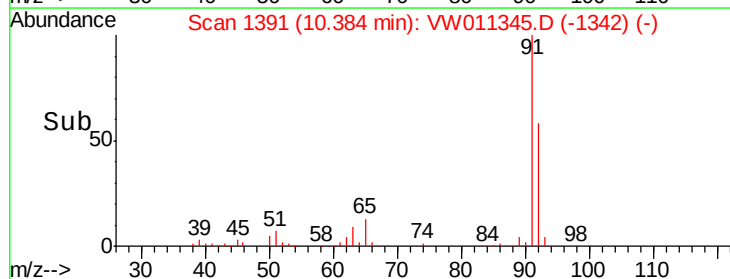
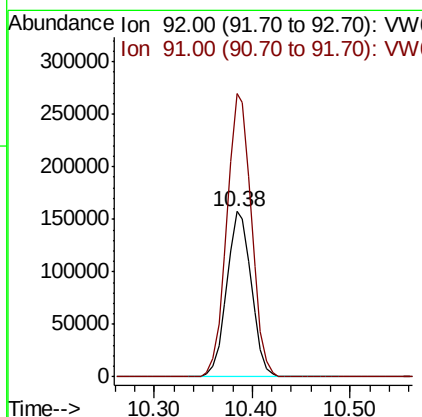
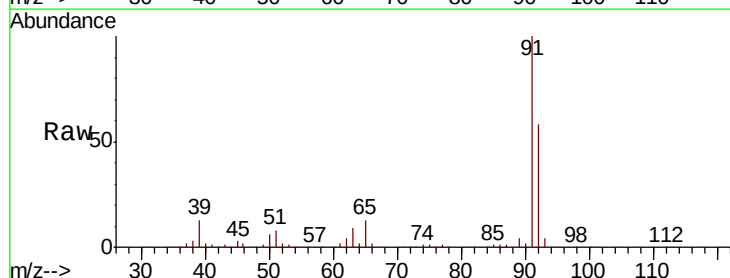
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

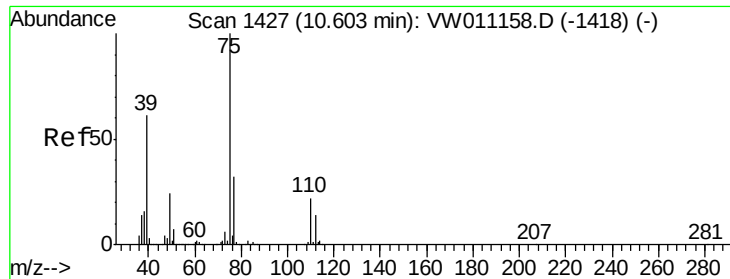
Tot Ion: 43 Resp: 490514  
Ion Ratio Lower Upper  
43 100  
58 34.9 28.2 42.2



#52  
Toluene  
Concen: 48.785 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 92 Resp: 273706  
Ion Ratio Lower Upper  
92 100  
91 172.0 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 46.096 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

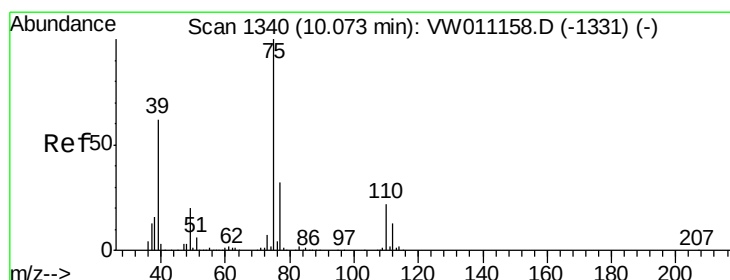
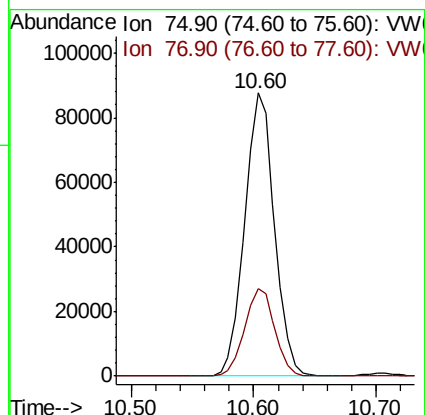
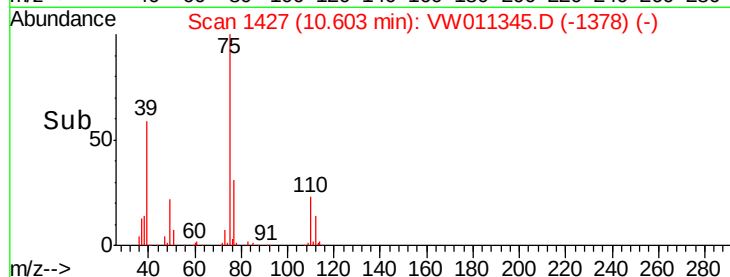
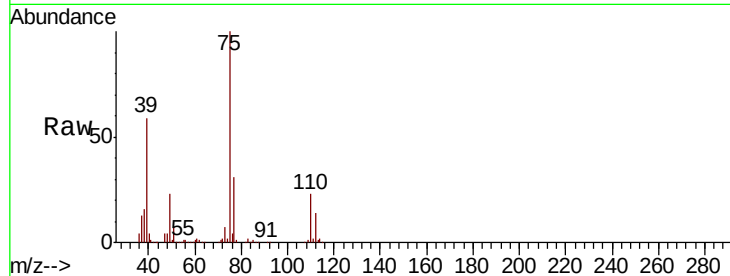
VSTDCCC050EC

Tot Ion: 75 Resp: 147706

Ion Ratio Lower Upper

75 100

77 31.1 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 46.775 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

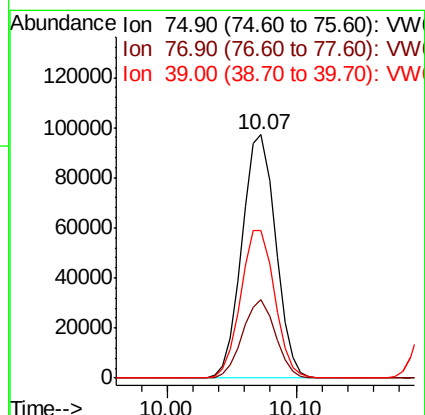
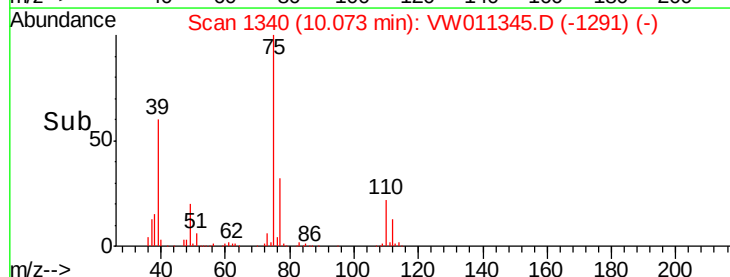
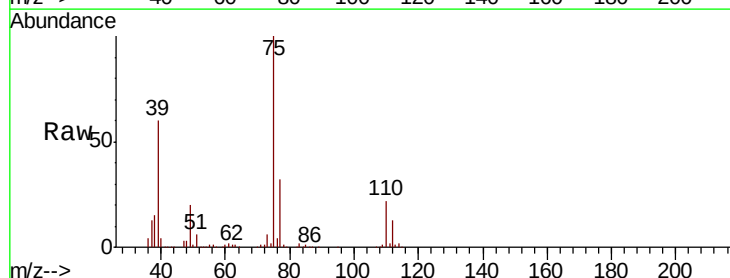
Tgt Ion: 75 Resp: 176416

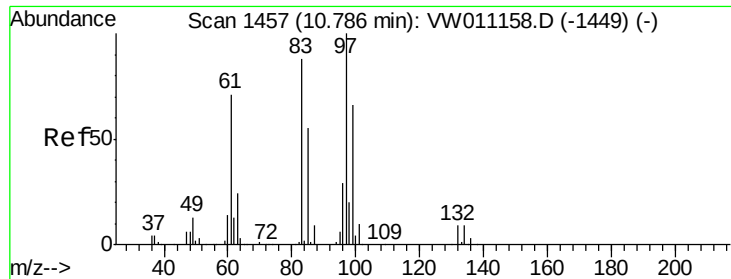
Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5

39 60.3 49.8 74.8

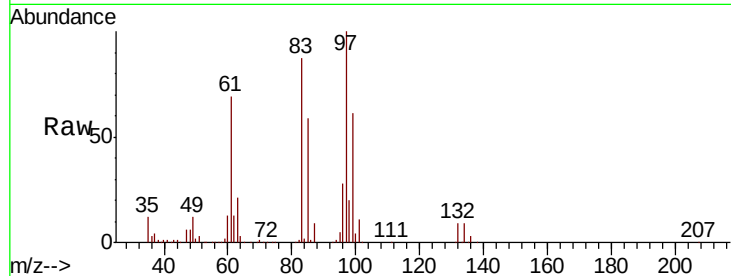




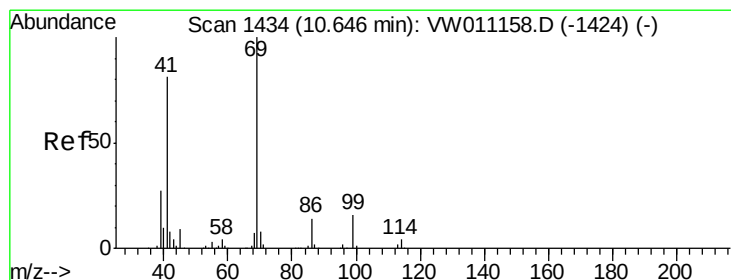
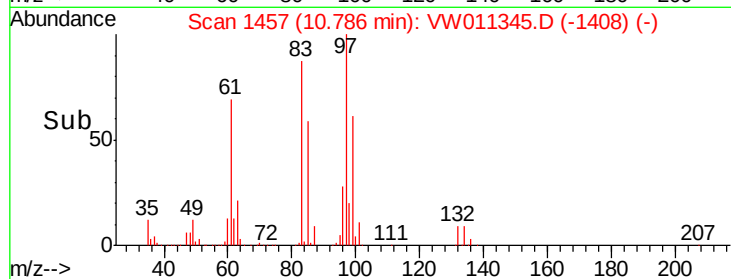
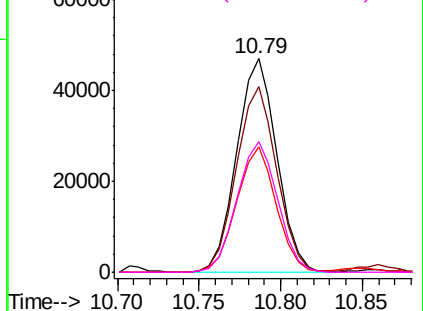
#55  
 1,1,2-Trichloroethane  
 Concen: 48.180 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 80416 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.7  | 70.2  | 105.4 |
| 85       | 58.7  | 44.2  | 66.2  |
| 99       | 61.2  | 52.6  | 79.0  |

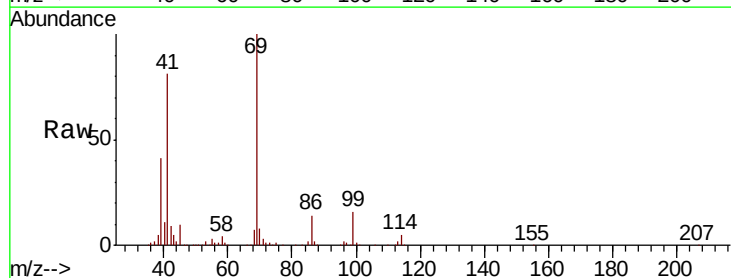


Abundance Ion 96.90 (96.60 to 97.60): VW  
 Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW  
 Ion 98.90 (98.60 to 99.60): VW

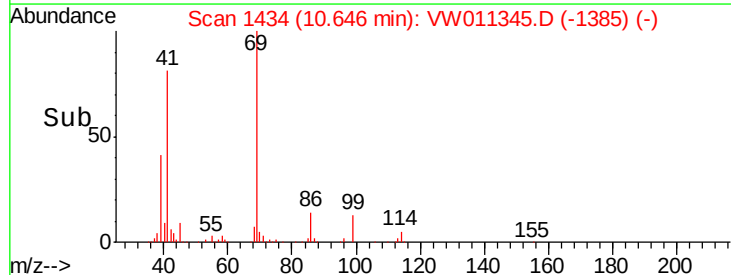
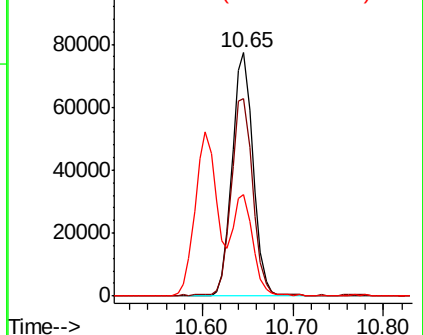


#56  
 Ethyl methacrylate  
 Concen: 49.086 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

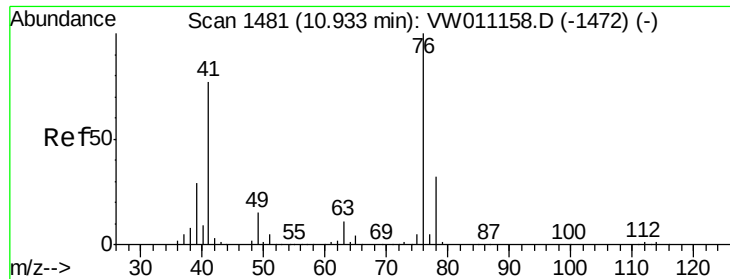
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 124734 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 83.7  | 66.5  | 99.7   |
| 39       | 38.5  | 32.5  | 48.7   |



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



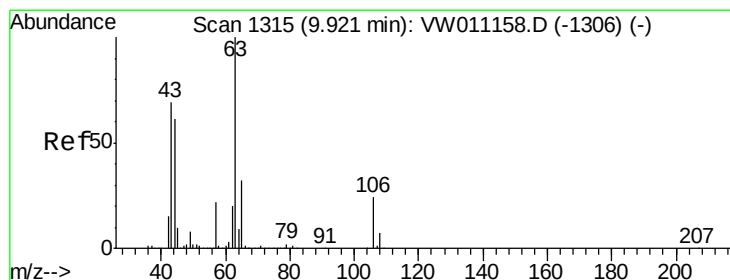
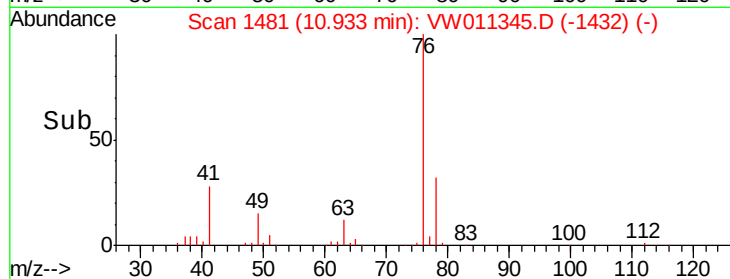
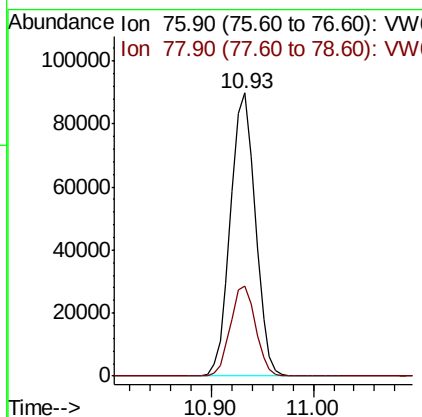
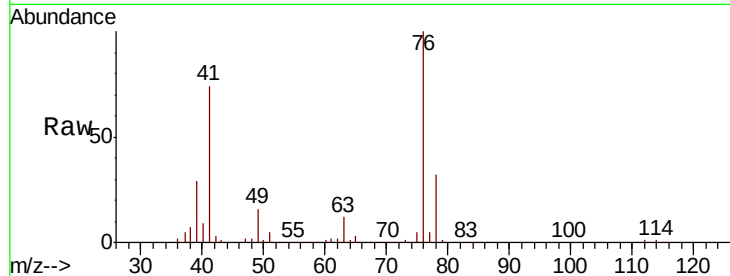




#57  
 1,3-Dichloropropane  
 Concen: 47.958 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

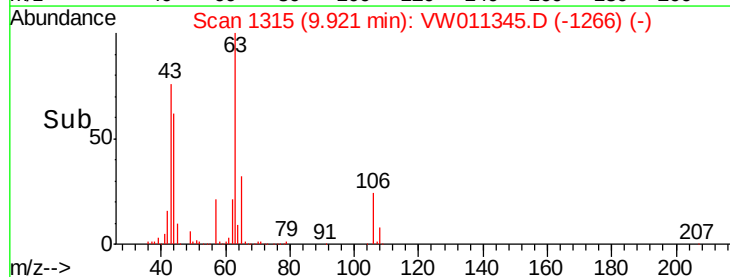
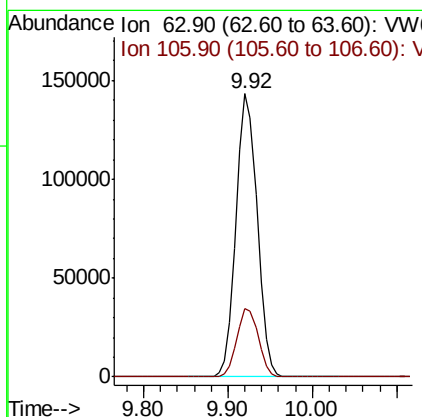
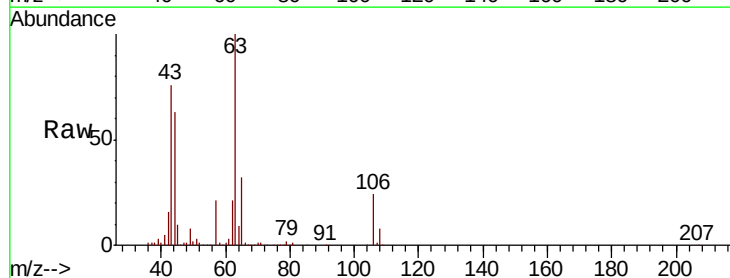
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

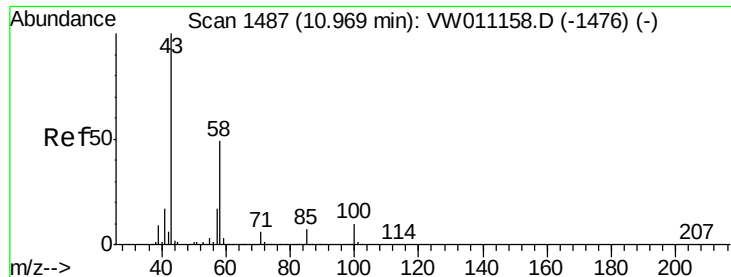
Tot Ion: 76 Resp: 151367  
 Ion Ratio Lower Upper  
 76 100  
 78 32.1 26.2 39.2



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 205.588 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion: 63 Resp: 242196  
 Ion Ratio Lower Upper  
 63 100  
 106 24.5 19.4 29.0

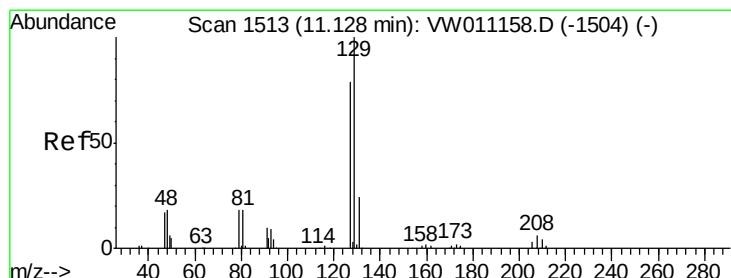
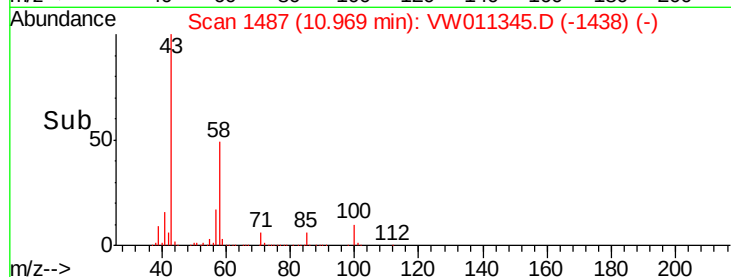
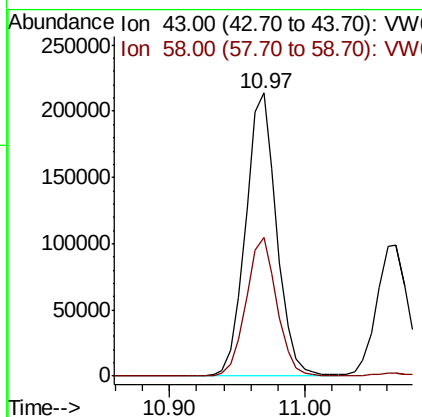
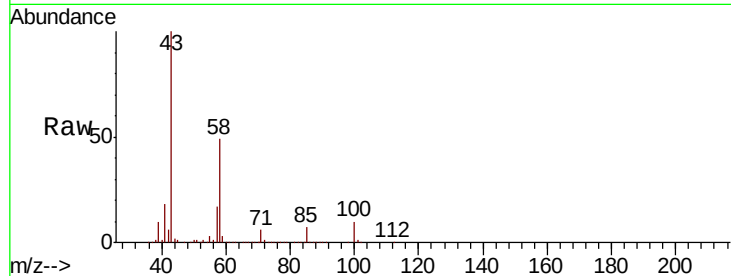




#59  
2-Hexanone  
Concen: 246.952 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

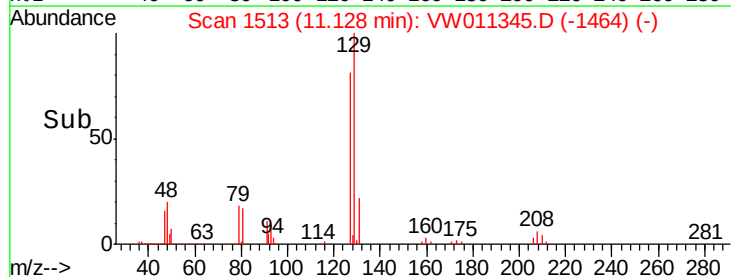
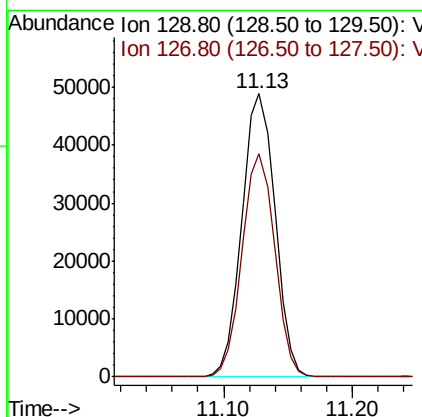
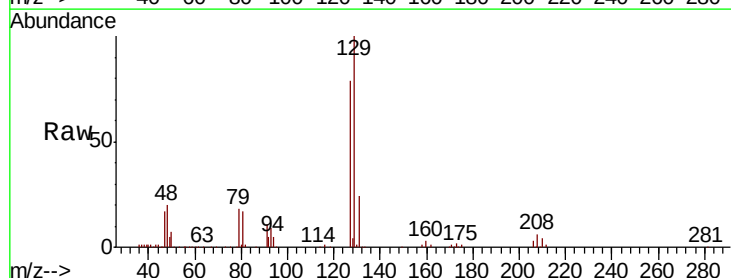
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

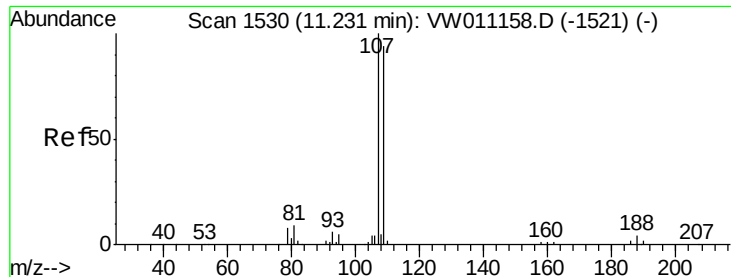
Tot Ion: 43 Resp: 339624  
Ion Ratio Lower Upper  
43 100  
58 48.7 24.4 73.4



#60  
Dibromochloromethane  
Concen: 47.634 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 129 Resp: 87183  
Ion Ratio Lower Upper  
129 100  
127 77.5 39.1 117.3





#61

1,2-Dibromoethane

Concen: 47.486 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

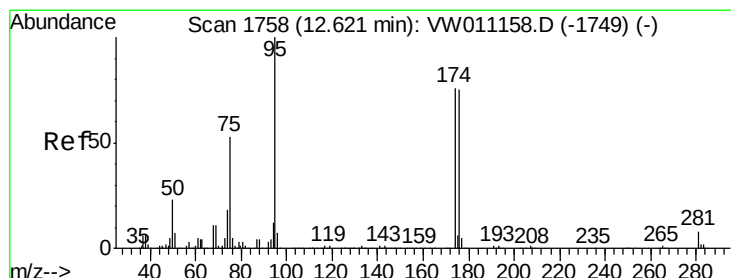
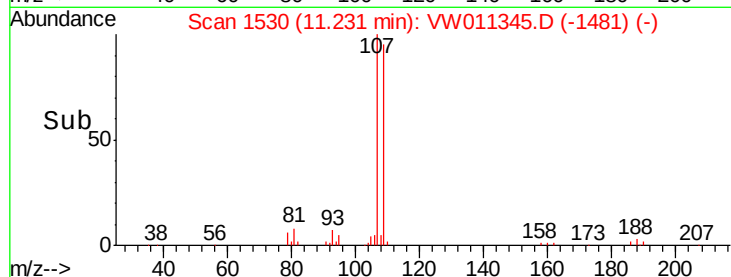
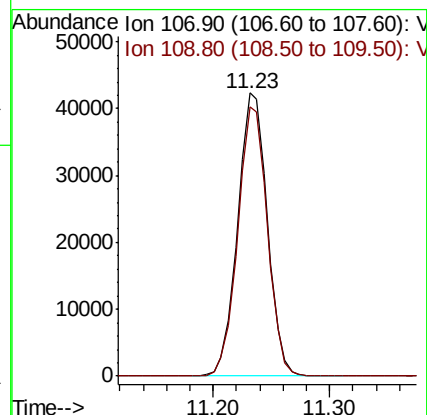
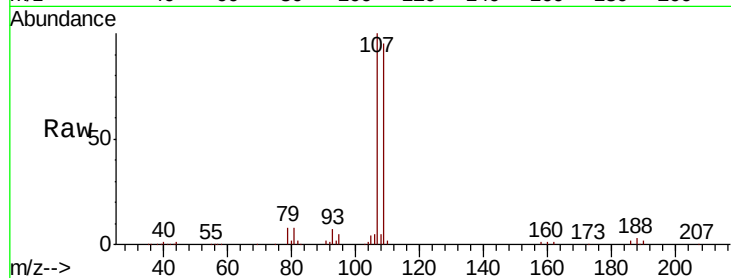
VSTDCCC050EC

Tot Ion:107 Resp: 75075

Ion Ratio Lower Upper

107 100

109 94.8 75.2 112.8



#62

4-Bromofluorobenzene

Concen: 45.184 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

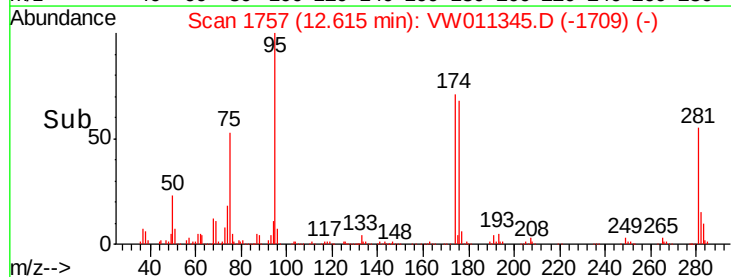
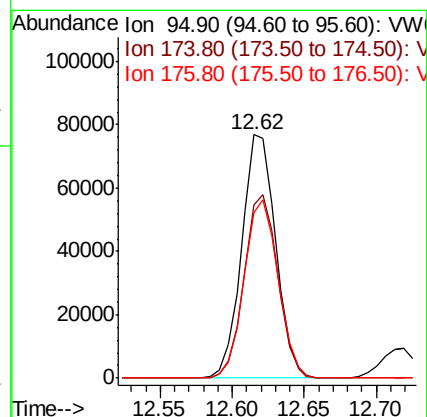
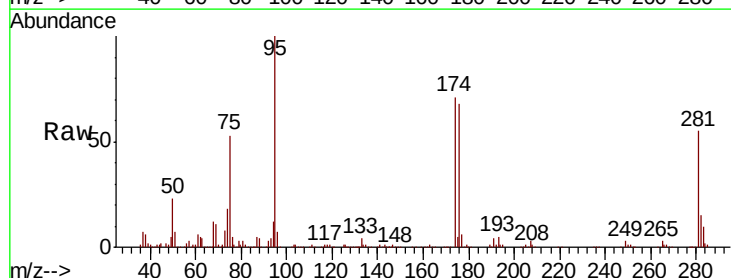
Tgt Ion: 95 Resp: 125399

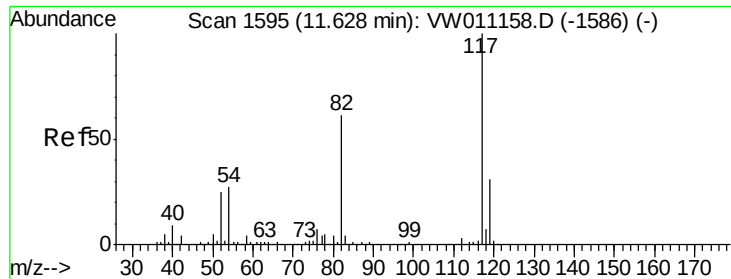
Ion Ratio Lower Upper

95 100

174 75.0 0.0 147.6

176 73.3 0.0 144.6

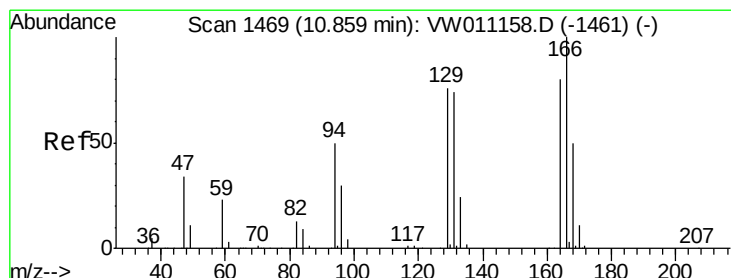
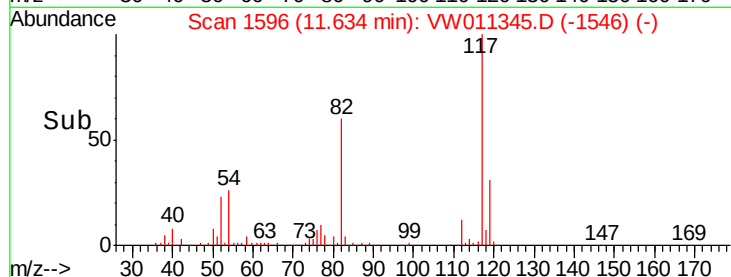
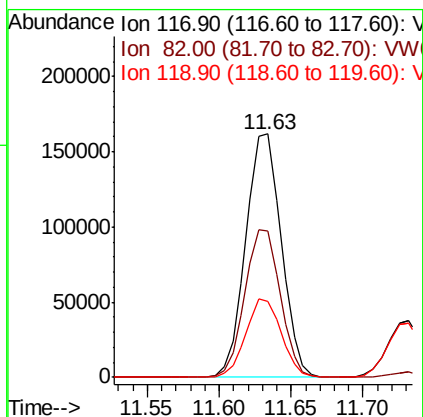
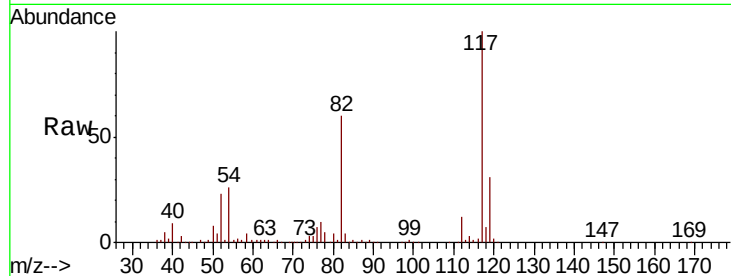




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.01 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

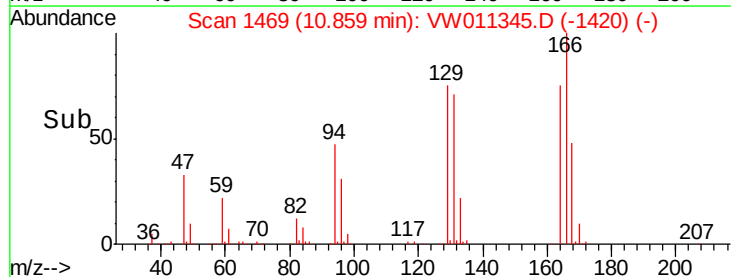
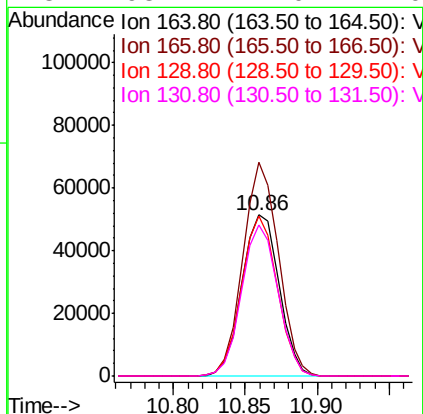
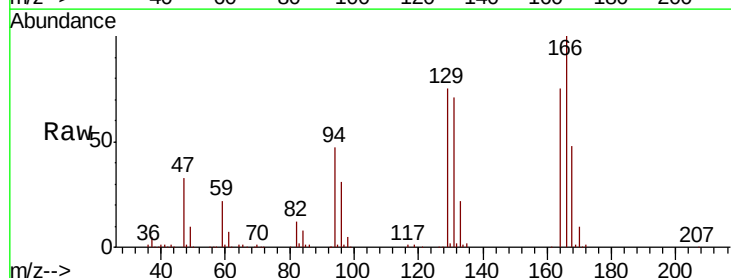
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

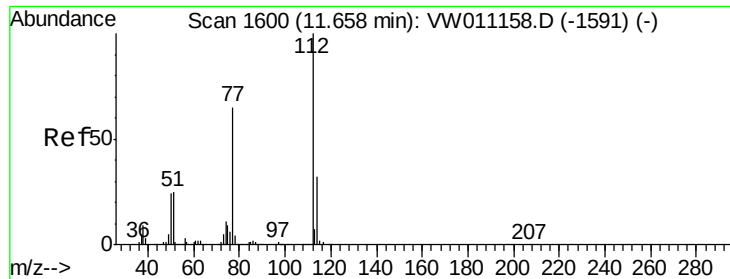
Tot Ion:117 Resp: 277118  
Ion Ratio Lower Upper  
117 100  
82 60.3 48.9 73.3  
119 31.3 25.0 37.6



#64  
Tetrachloroethene  
Concen: 49.306 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion:164 Resp: 92200  
Ion Ratio Lower Upper  
164 100  
166 132.7 99.7 149.5  
129 99.2 76.2 114.2  
131 93.7 74.0 111.0

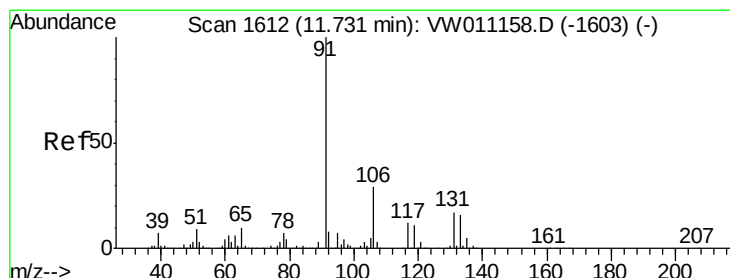
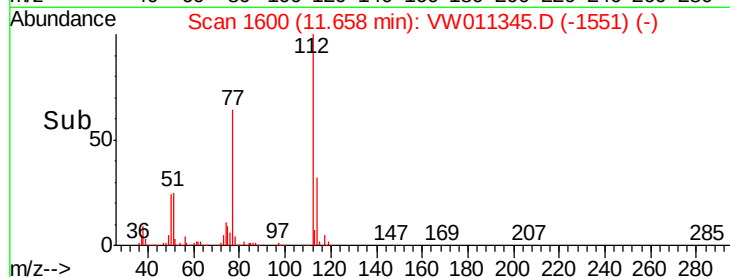
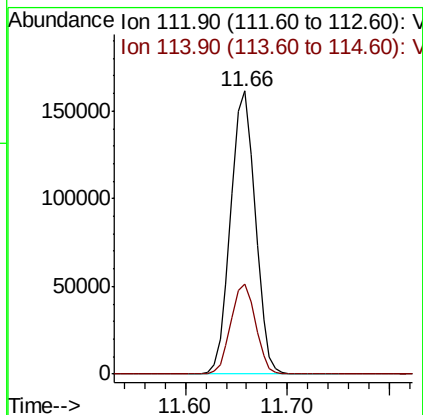
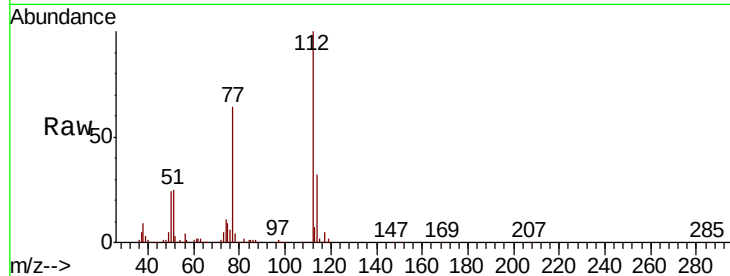




#65  
Chlorobenzene  
Concen: 47.751 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

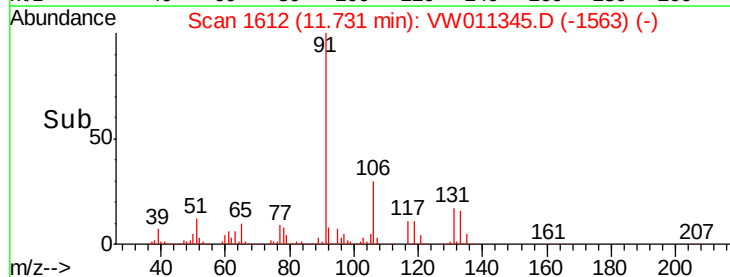
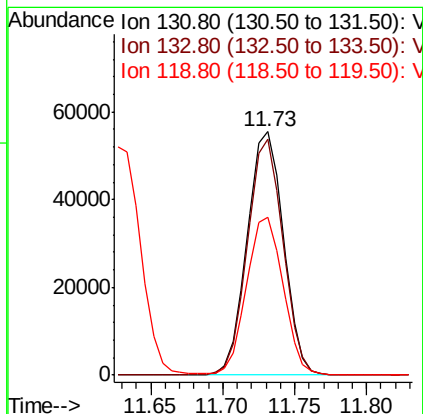
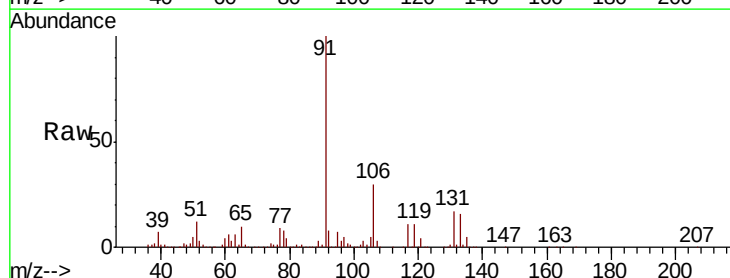
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

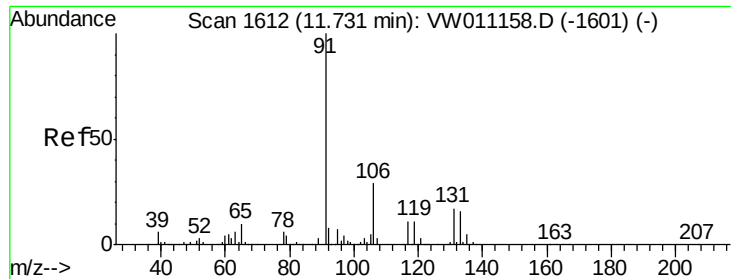
Tot Ion:112 Resp: 269035  
Ion Ratio Lower Upper  
112 100  
114 32.0 25.5 38.3



#66  
1,1,1,2-Tetrachloroethane  
Concen: 48.705 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion:131 Resp: 96619  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.9 143.8  
119 65.7 33.1 99.2

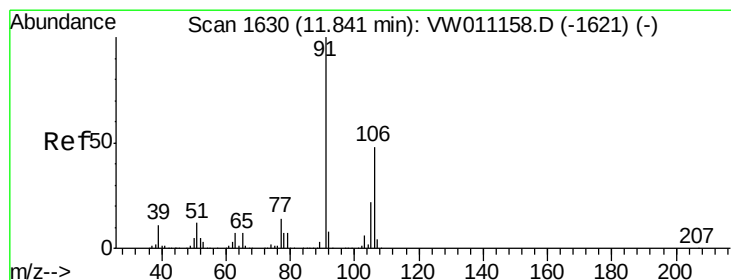
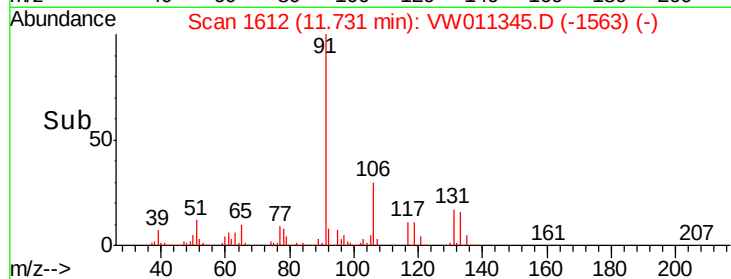
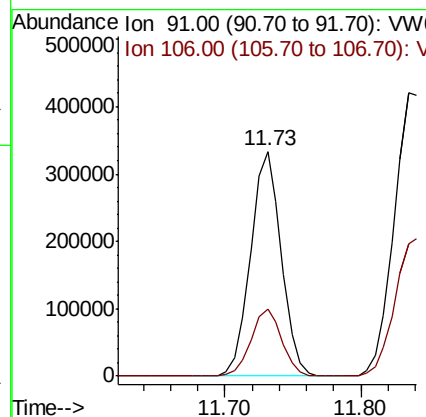
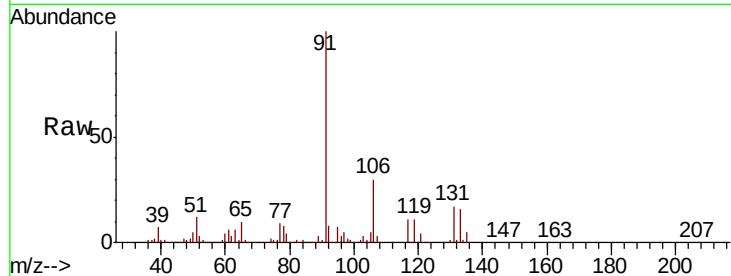




#67  
Ethyl Benzene  
Concen: 48.782 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

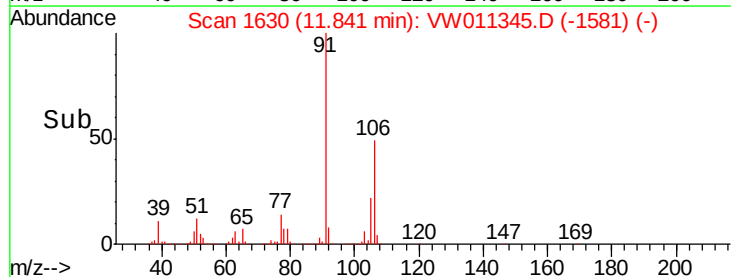
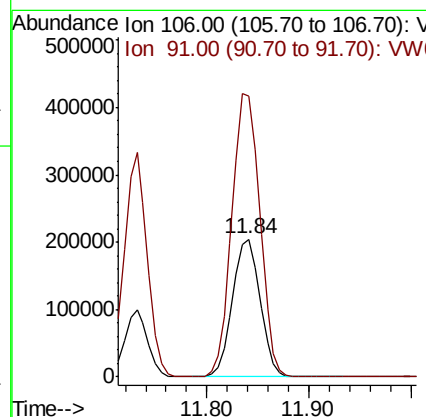
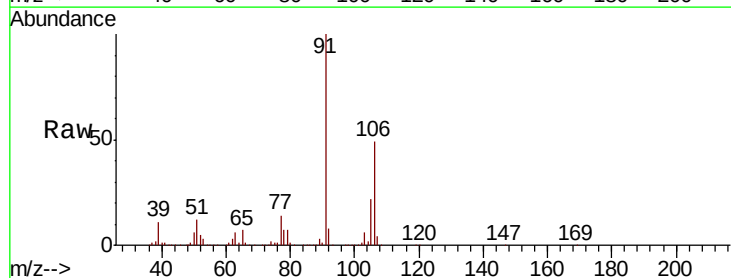
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

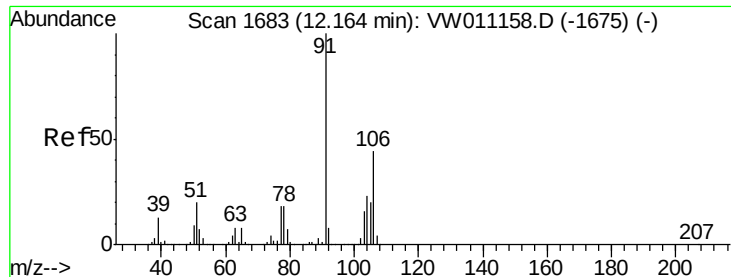
Tot Ion: 91 Resp: 526144  
Ion Ratio Lower Upper  
91 100  
106 29.7 23.5 35.3



#68  
m/p-Xylenes  
Concen: 97.943 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 106 Resp: 382246  
Ion Ratio Lower Upper  
106 100  
91 209.1 167.7 251.5

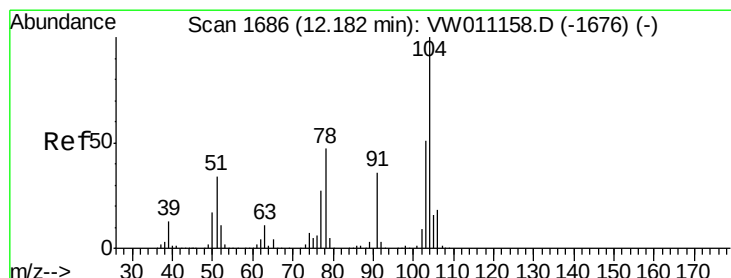
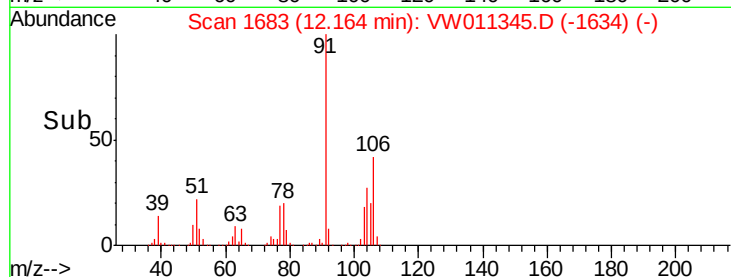
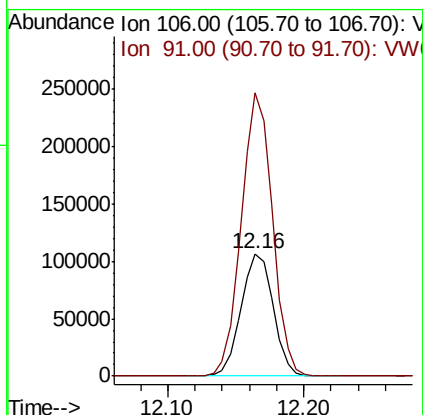
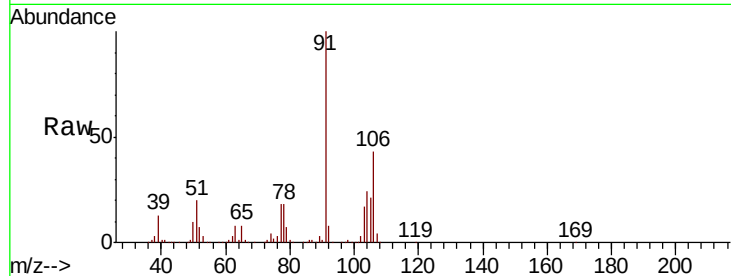




#69  
o-Xylene  
Concen: 48.012 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

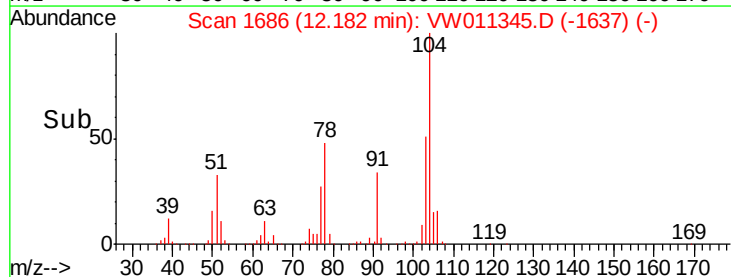
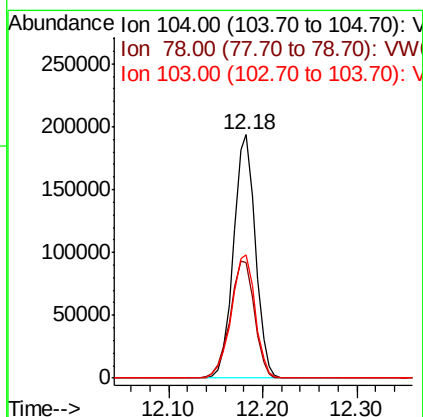
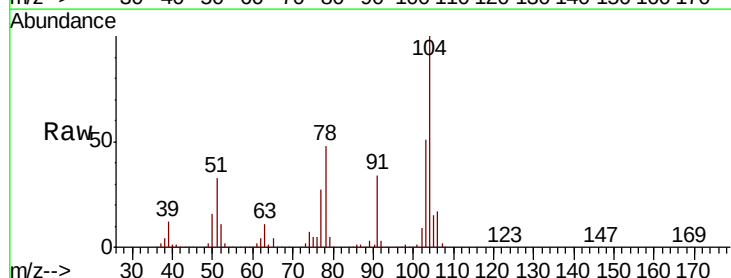
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

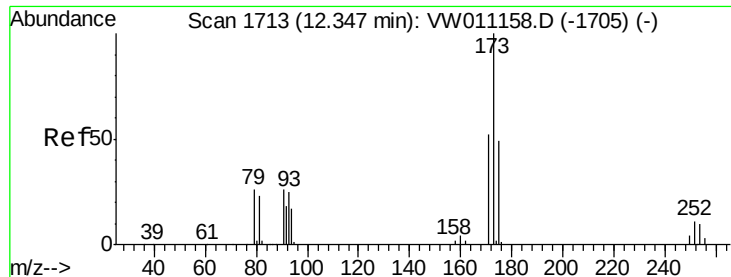
Tot Ion:106 Resp: 176608  
Ion Ratio Lower Upper  
106 100  
91 223.9 110.7 332.1



#70  
Styrene  
Concen: 48.971 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion:104 Resp: 310881  
Ion Ratio Lower Upper  
104 100  
78 53.8 43.1 64.7  
103 55.4 44.1 66.1

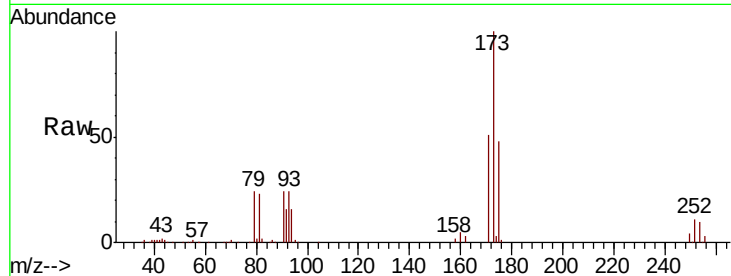




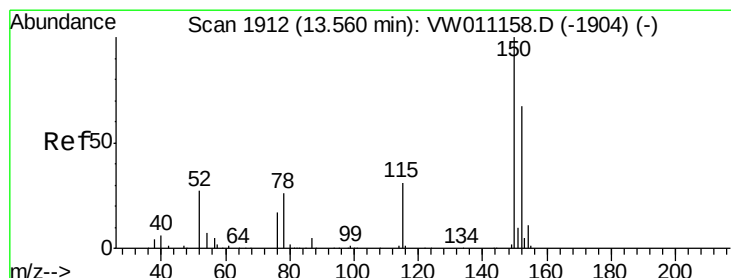
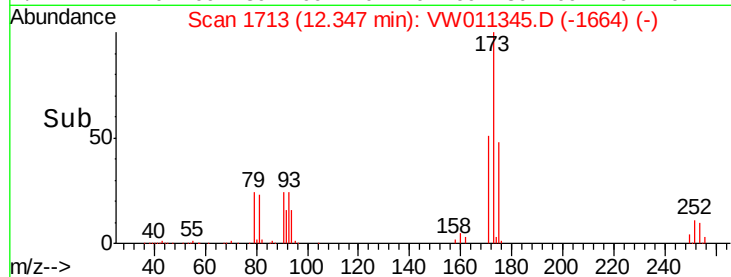
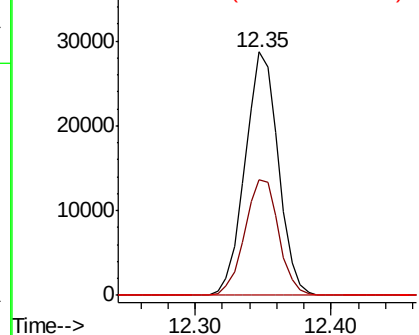
#71  
Bromoform  
Concen: 46.446 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Tot Ion:173 Resp: 48989  
Ion Ratio Lower Upper  
173 100  
175 48.7 24.8 74.3  
254 0.1 0.0 0.0#

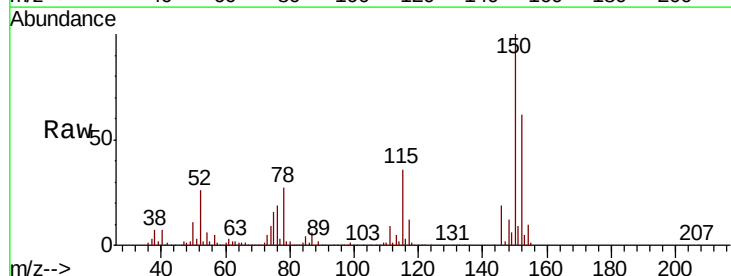


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

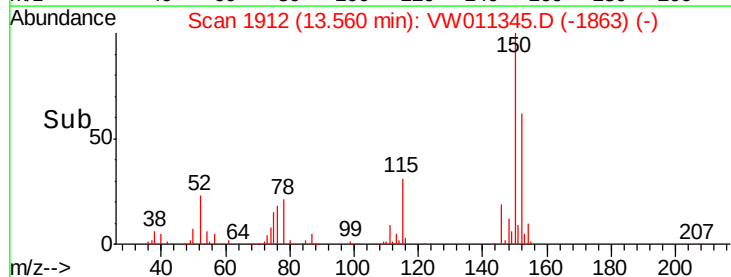
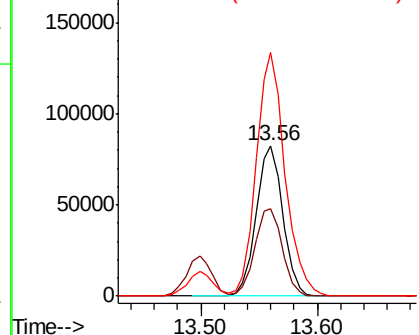


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

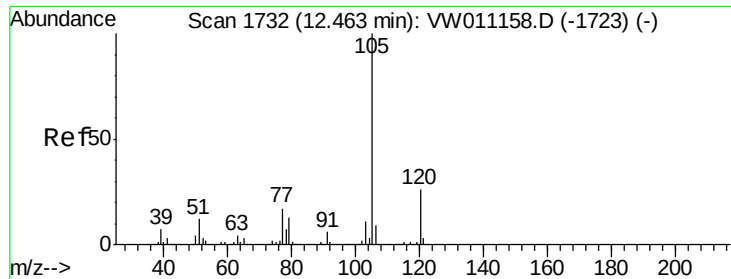
Tgt Ion:152 Resp: 131059  
Ion Ratio Lower Upper  
152 100  
115 60.0 30.1 90.3  
150 174.1 0.0 346.0



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







#73

Isopropylbenzene

Concen: 50.239 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

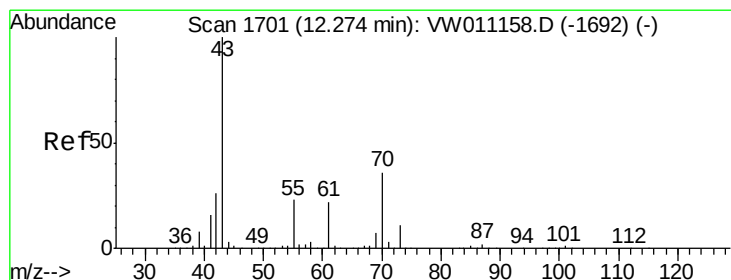
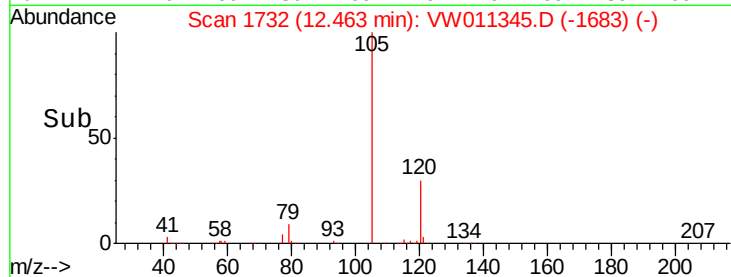
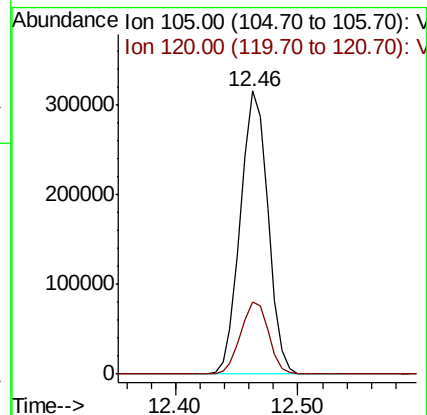
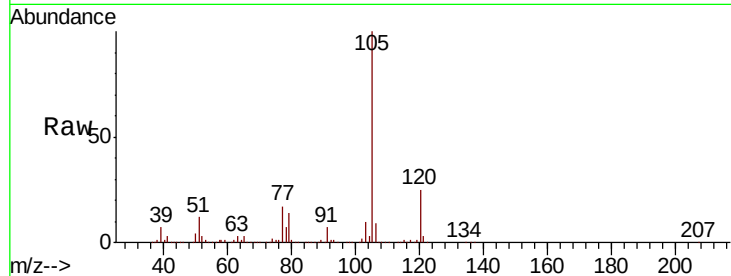
VSTDCCC050EC

Tot Ion:105 Resp: 492195

Ion Ratio Lower Upper

105 100

120 25.7 12.8 38.3



#74

N-ethyl acetate

Concen: 49.960 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Tgt Ion: 43 Resp: 170470

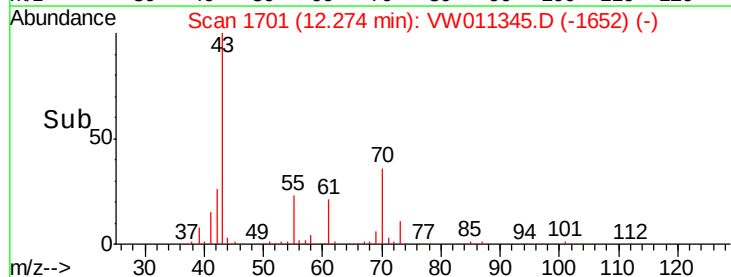
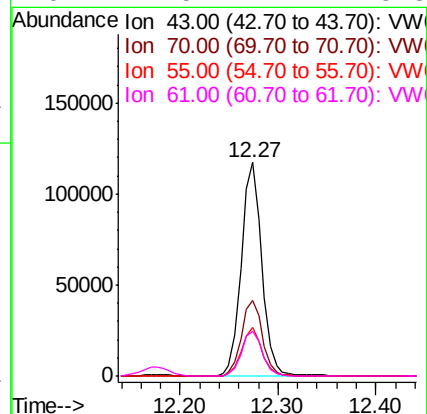
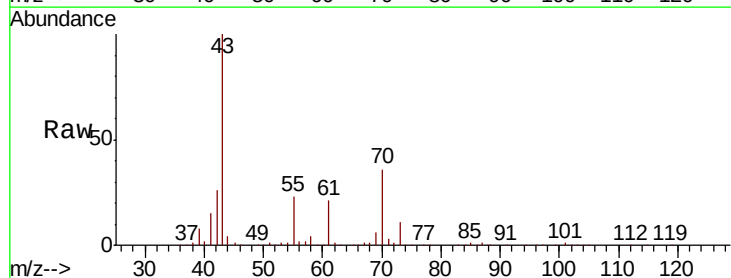
Ion Ratio Lower Upper

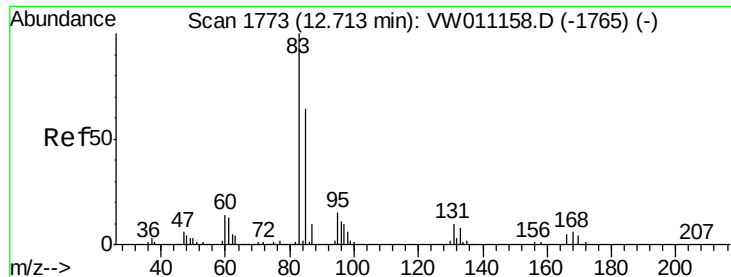
43 100

70 36.3 28.5 42.7

55 23.0 18.1 27.1

61 21.5 17.2 25.8





#75

1,1,2,2-Tetrachloroethane

Concen: 48.896 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

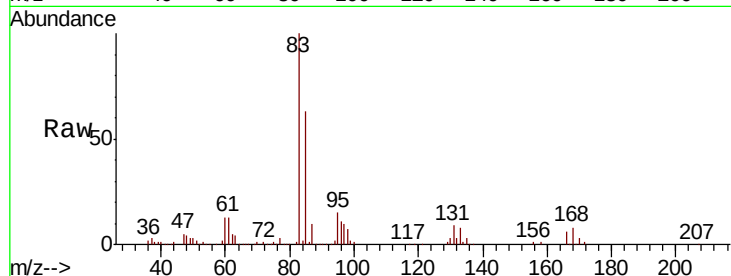
Tot Ion: 83 Resp: 98196

Ion Ratio Lower Upper

83 100

131 9.7 5.0 15.0

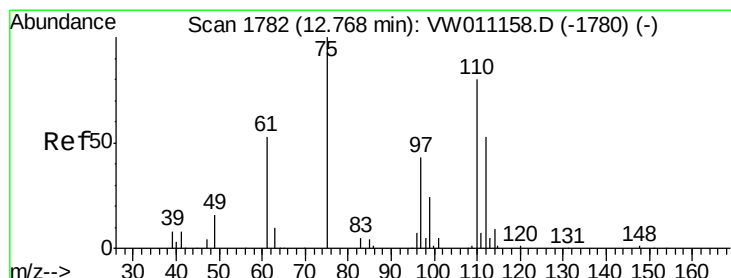
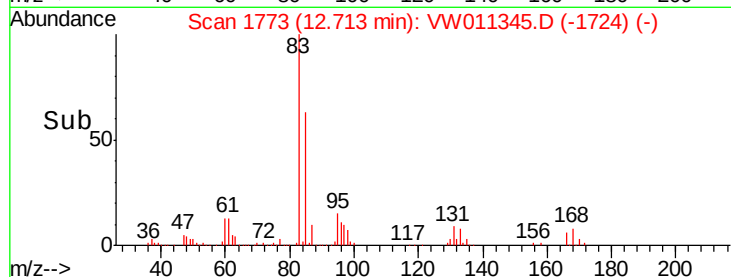
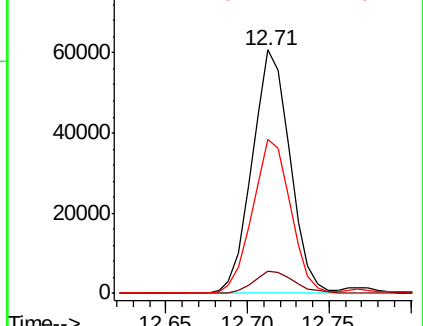
85 63.7 31.6 94.8



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 83.757 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011345.D

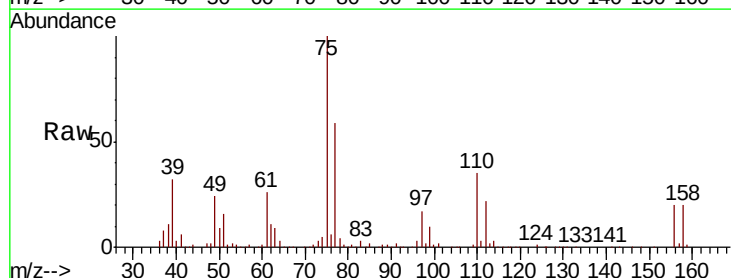
Acq: 18 Jul 2019 20:14

Tgt Ion: 75 Resp: 126854

Ion Ratio Lower Upper

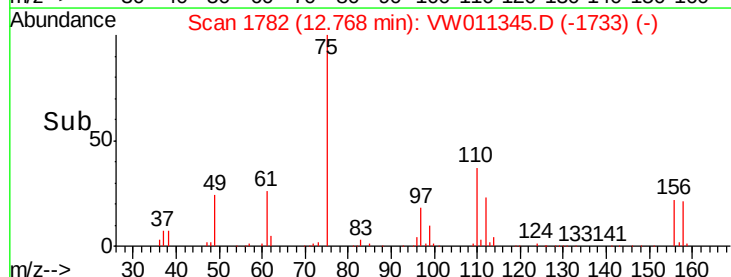
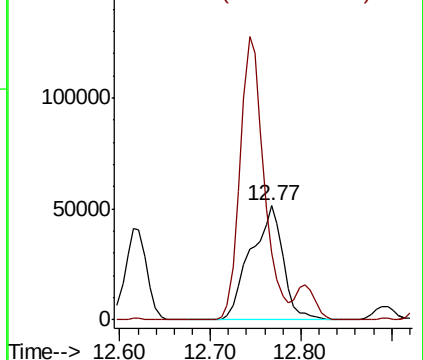
75 100

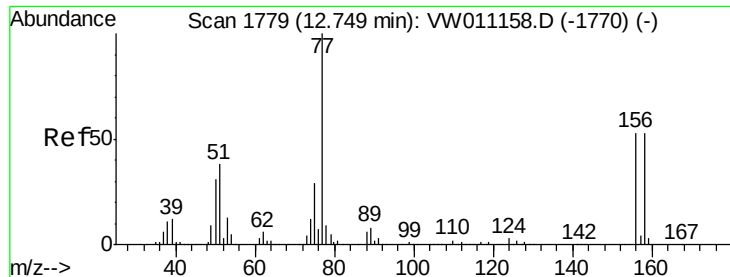
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

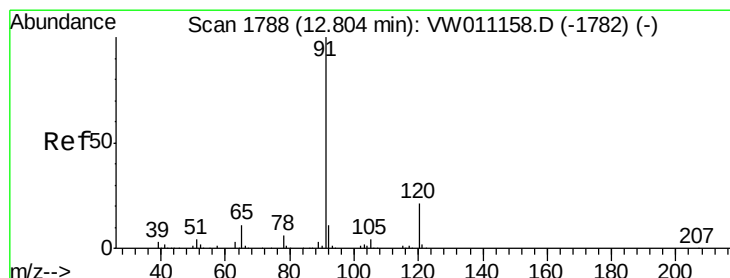
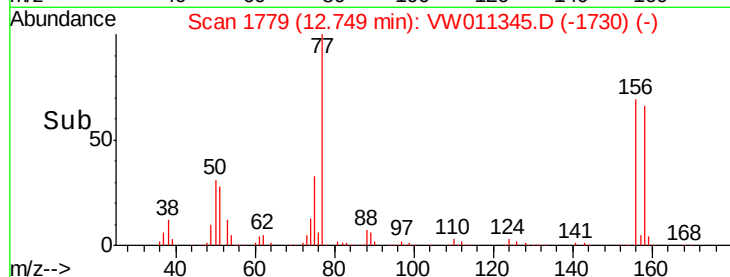
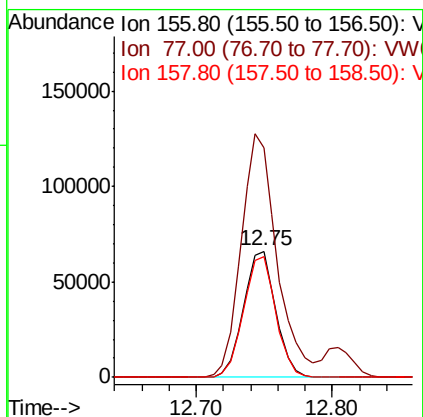
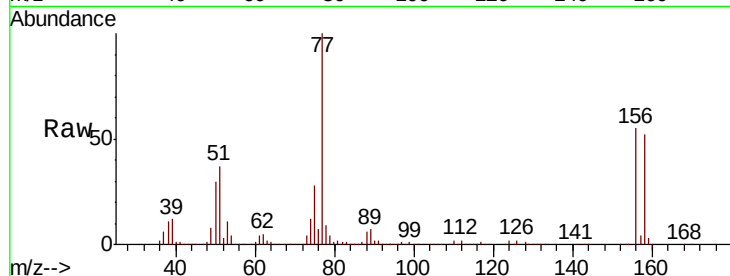




#77  
Bromobenzene  
Concen: 49.765 ug/l  
RT: 12.75 min Scan# 1779  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

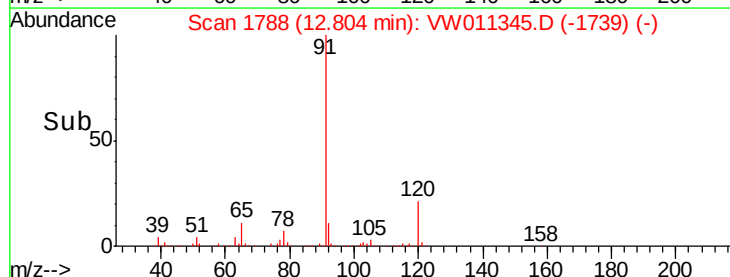
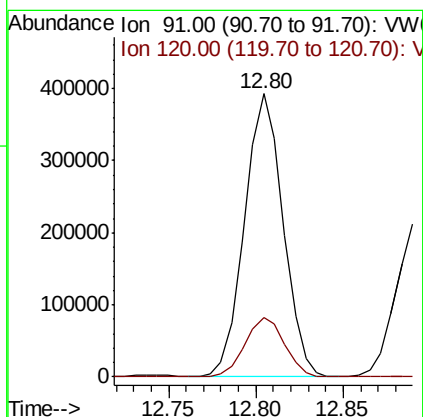
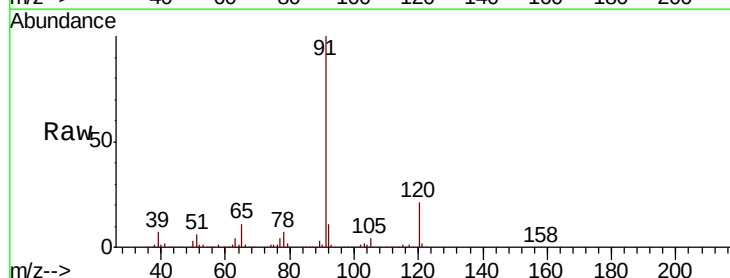
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

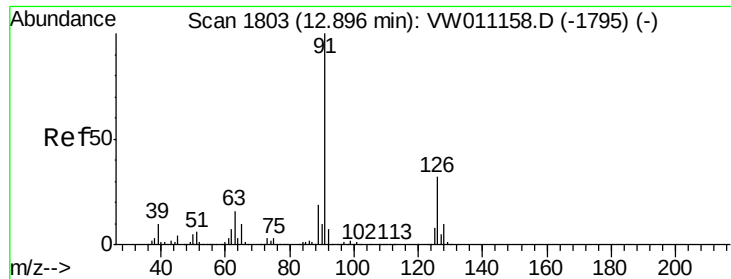
Tot Ion:156 Resp: 109416  
Ion Ratio Lower Upper  
156 100  
77 214.1 109.0 327.0  
158 95.9 48.8 146.3



#78  
n-propylbenzene  
Concen: 49.693 ug/l  
RT: 12.80 min Scan# 1788  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion: 91 Resp: 599728  
Ion Ratio Lower Upper  
91 100  
120 21.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 49.652 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

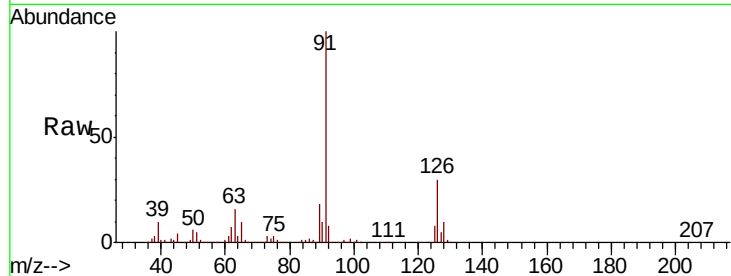
VSTDCCC050EC

Tot Ion: 91 Resp: 344829

Ion Ratio Lower Upper

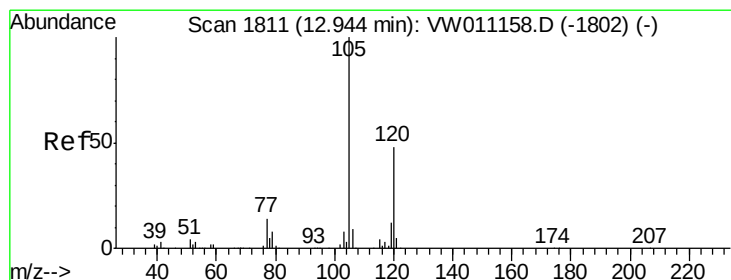
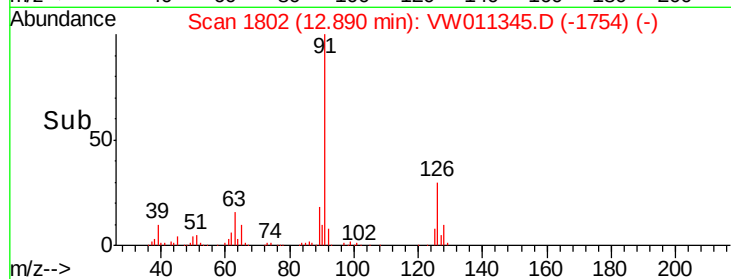
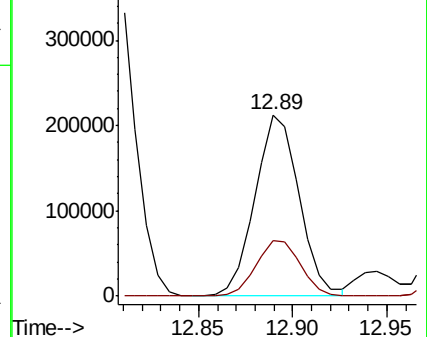
91 100

126 30.9 15.8 47.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 49.802 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW011345.D

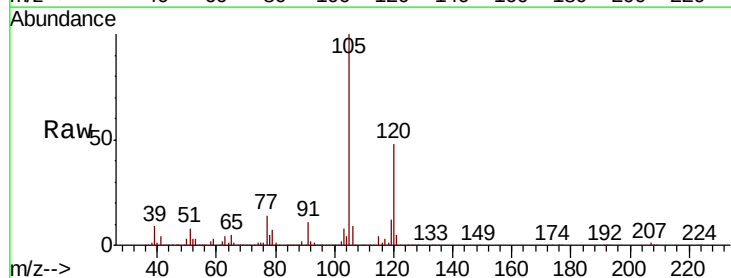
Acq: 18 Jul 2019 20:14

Tgt Ion:105 Resp: 414513

Ion Ratio Lower Upper

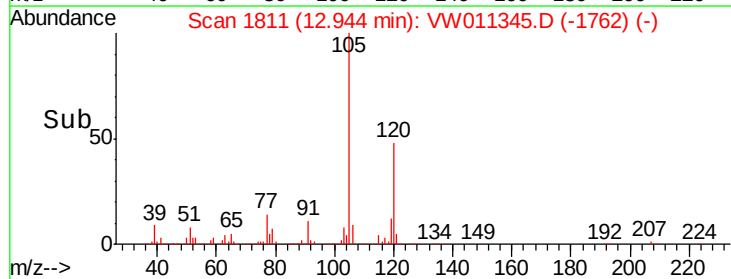
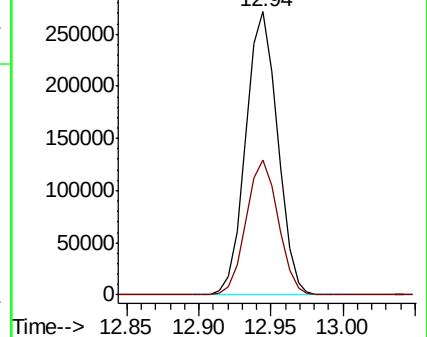
105 100

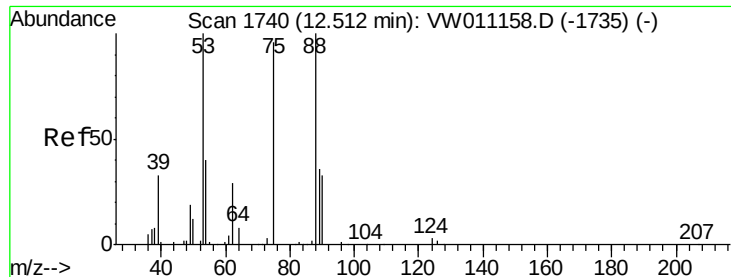
120 47.9 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 42.479 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

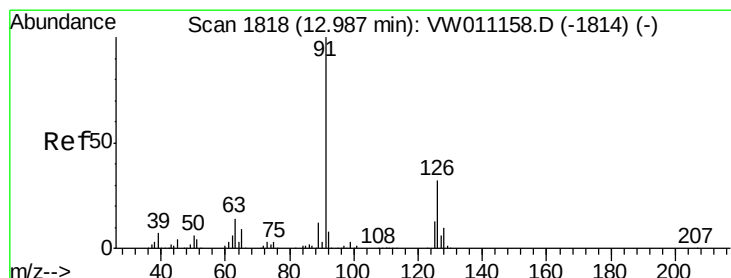
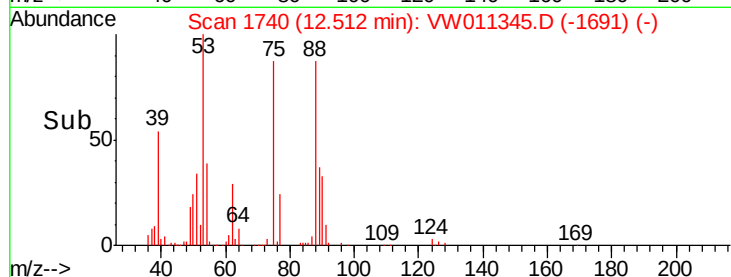
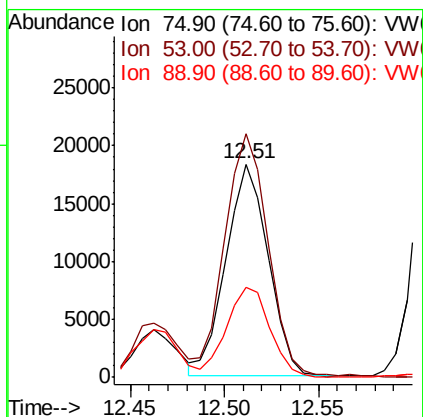
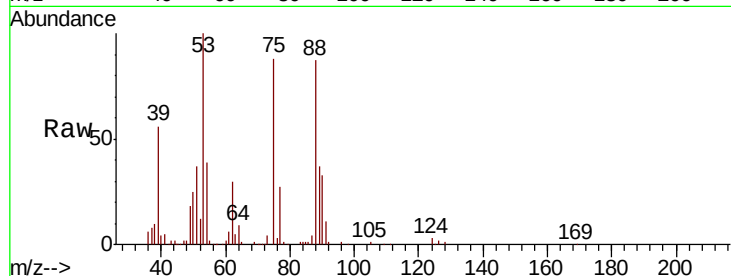
Tot Ion: 75 Resp: 28445

Ion Ratio Lower Upper

75 100

53 119.7 89.8 134.6

89 43.7 34.3 51.5



#82

4-Chlorotoluene

Concen: 48.630 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW011345.D

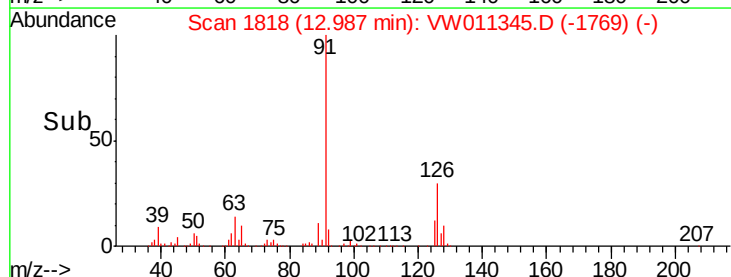
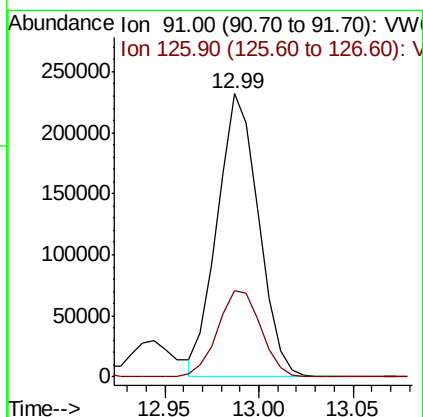
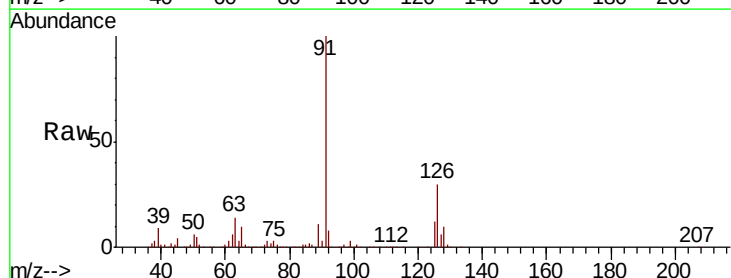
Acq: 18 Jul 2019 20:14

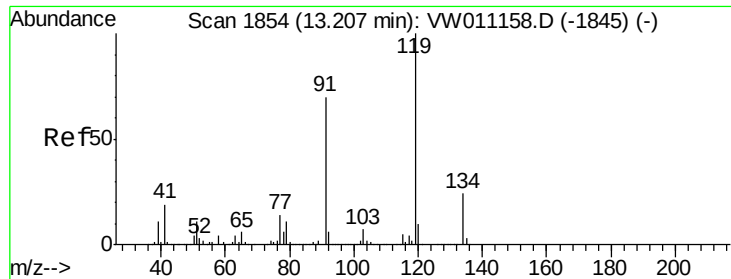
Tgt Ion: 91 Resp: 351766

Ion Ratio Lower Upper

91 100

126 32.1 15.7 47.1

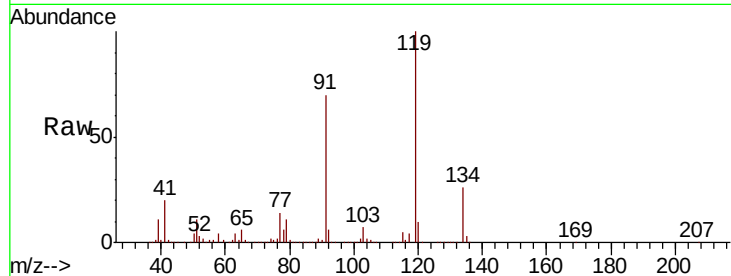




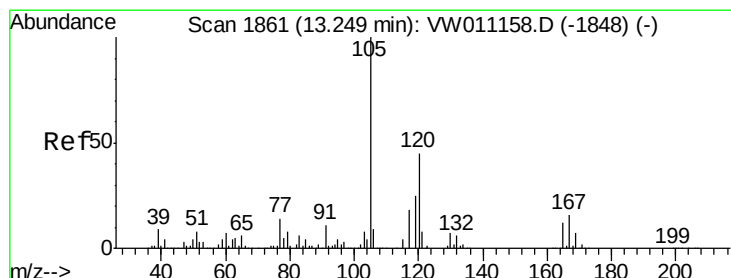
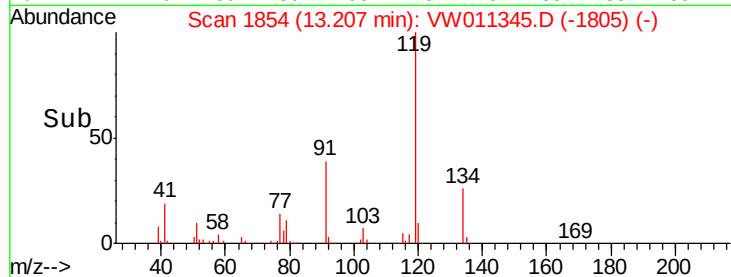
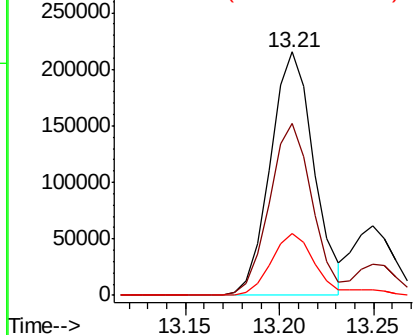
#83  
 tert-Butylbenzene  
 Concen: 49.682 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion:119 Resp: 344867  
 Ion Ratio Lower Upper  
 119 100  
 91 69.3 35.4 106.3  
 134 27.0 13.4 40.2

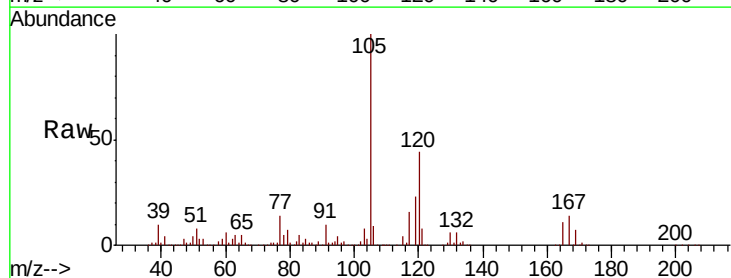


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 91.00 (90.70 to 91.70): V  
 Ion 134.00 (133.70 to 134.70): V

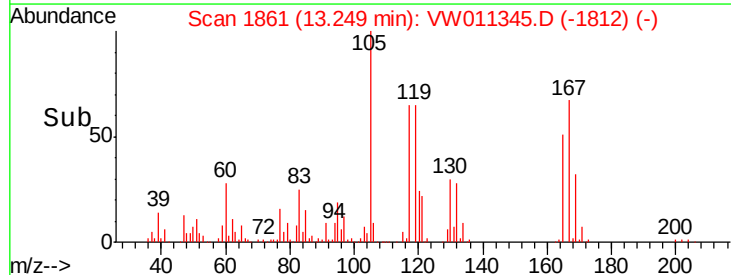
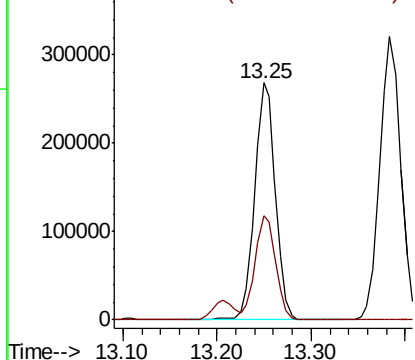


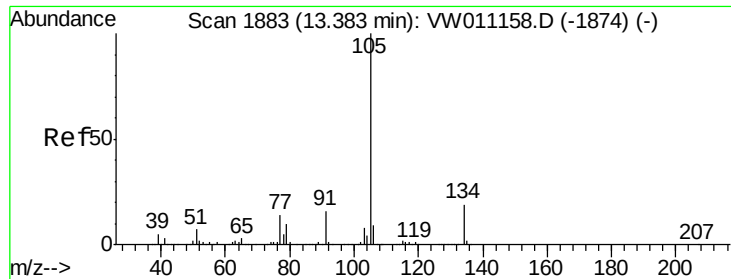
#84  
 1,2,4-Trimethylbenzene  
 Concen: 49.739 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion:105 Resp: 415693  
 Ion Ratio Lower Upper  
 105 100  
 120 43.9 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.054 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

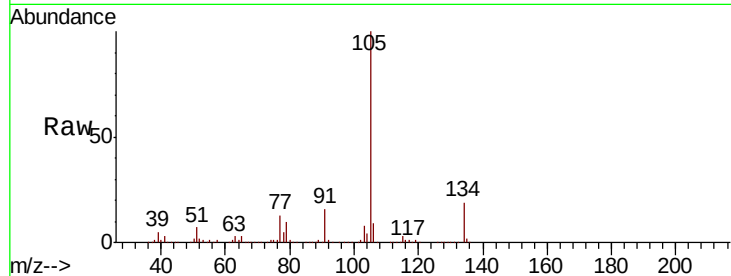
VSTDCCC050EC

Tot Ion:105 Resp: 491335

Ion Ratio Lower Upper

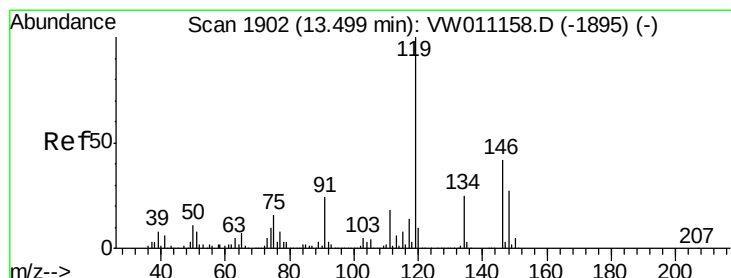
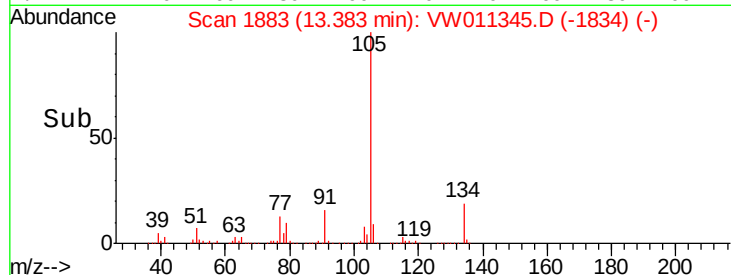
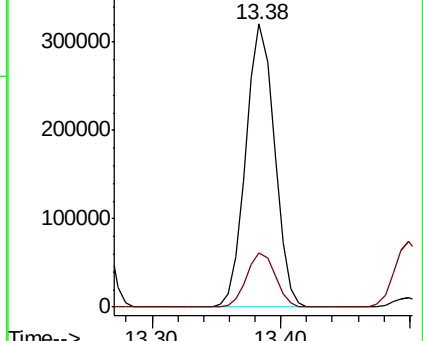
105 100

134 19.3 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.181 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

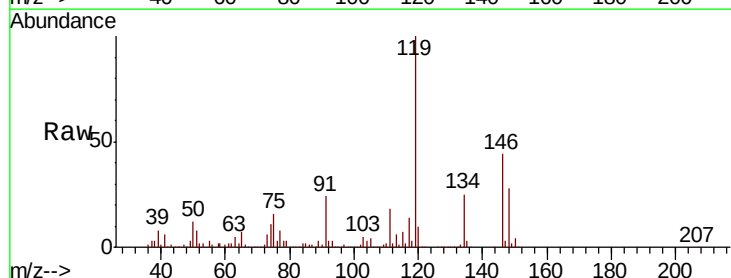
Tgt Ion:119 Resp: 441830

Ion Ratio Lower Upper

119 100

134 25.8 12.9 38.6

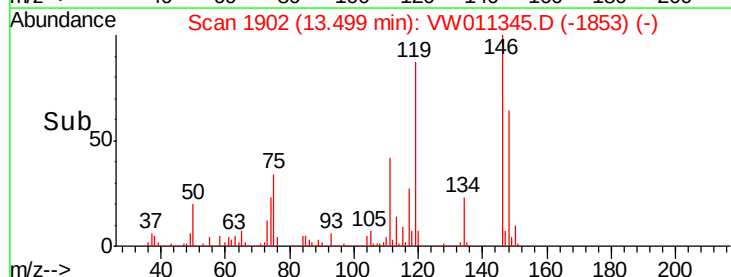
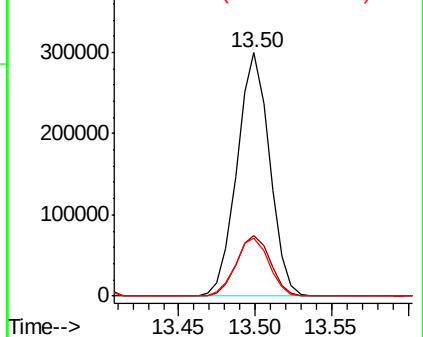
91 24.4 12.3 36.8

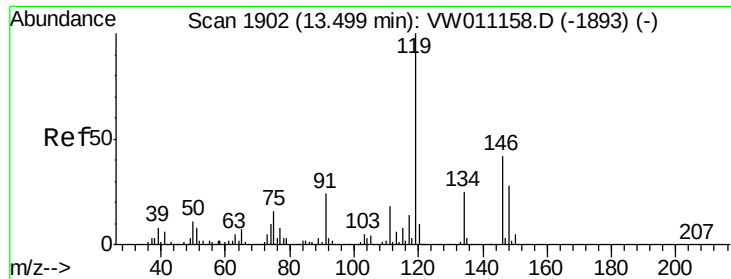


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

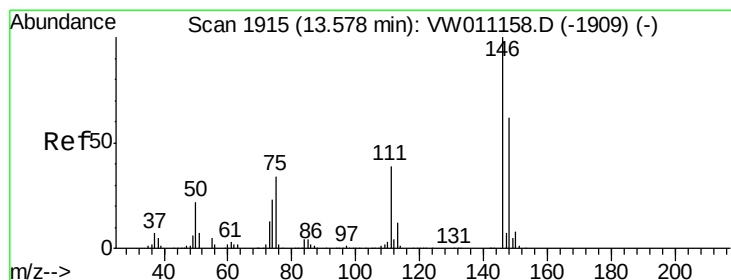
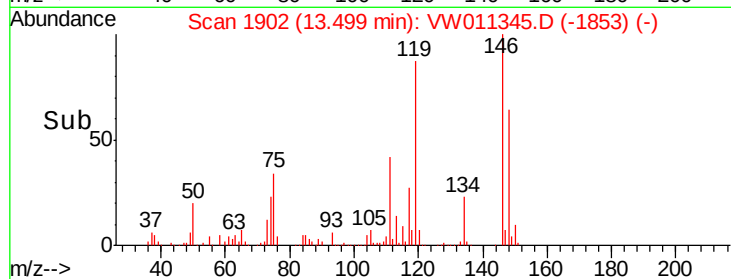
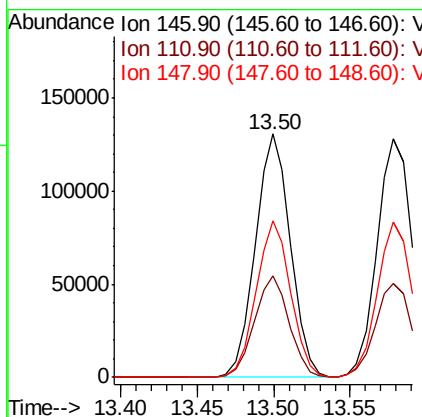
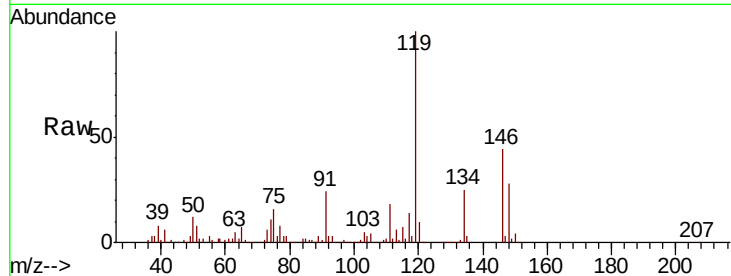




#87  
 1,3-Dichlorobenzene  
 Concen: 49.052 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

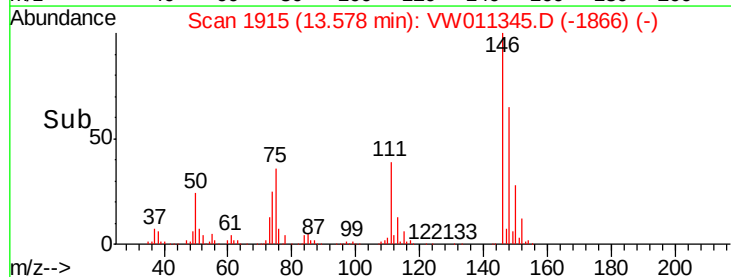
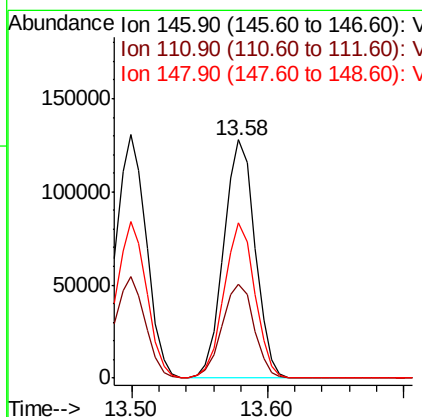
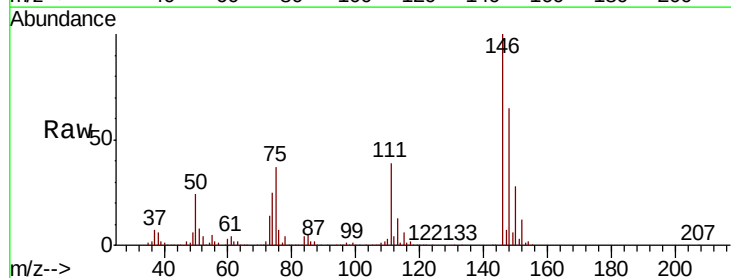
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion:146 Resp: 207501  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 21.1 63.1  
 148 63.2 32.6 97.7

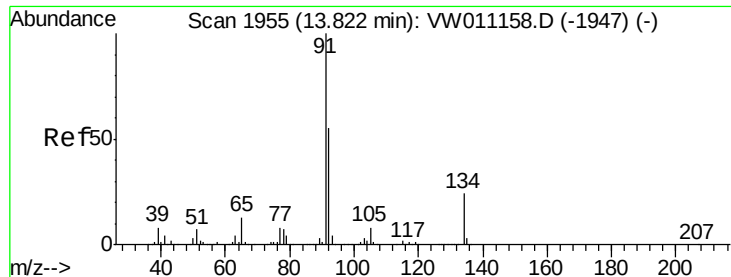


#88  
 1,4-Dichlorobenzene  
 Concen: 48.088 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion:146 Resp: 204841  
 Ion Ratio Lower Upper  
 146 100  
 111 40.3 19.9 59.7  
 148 64.3 31.5 94.5







#89

n-Butylbenzene

Concen: 48.386 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW011345.D

Acq: 18 Jul 2019 20:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

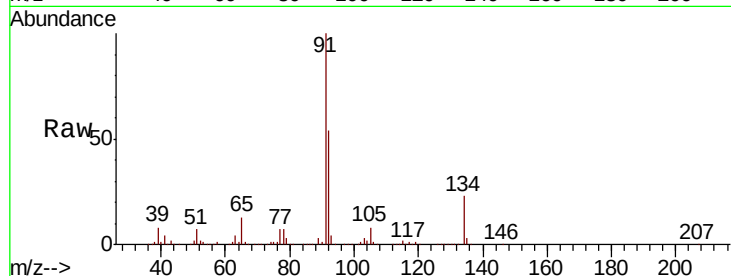
Tot Ion: 91 Resp: 433635

Ion Ratio Lower Upper

91 100

92 54.2 26.9 80.7

134 23.9 12.2 36.4

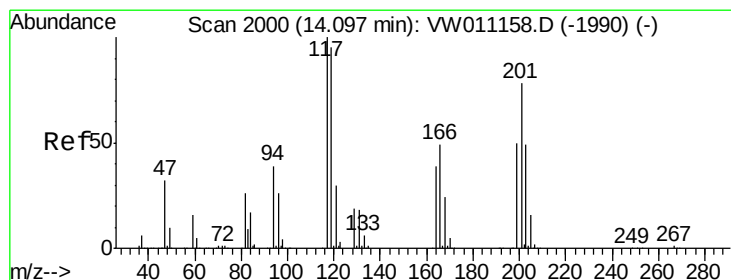
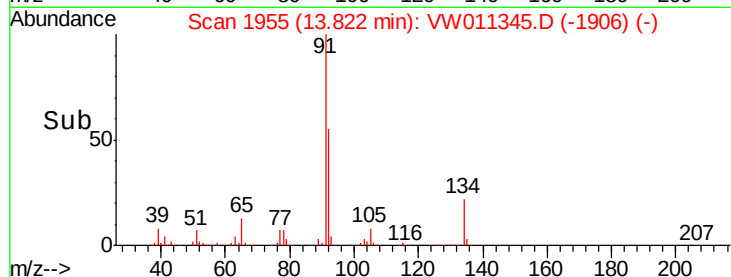
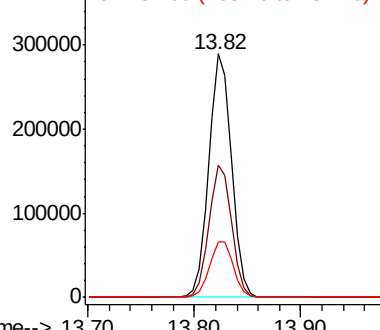


Abundance

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: 47.510 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW011345.D

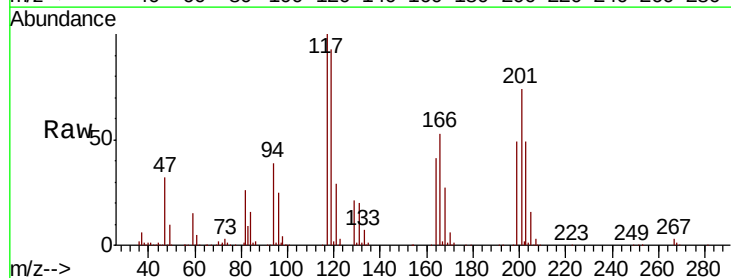
Acq: 18 Jul 2019 20:14

Tgt Ion: 117 Resp: 77994

Ion Ratio Lower Upper

117 100

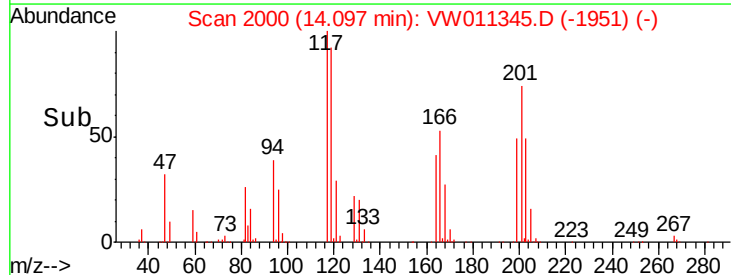
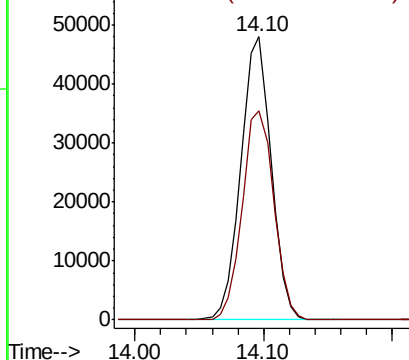
201 77.1 38.3 114.8

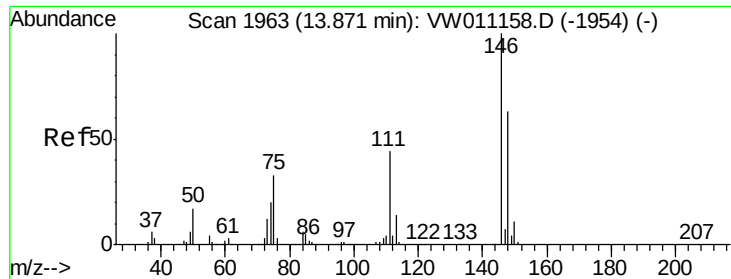


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

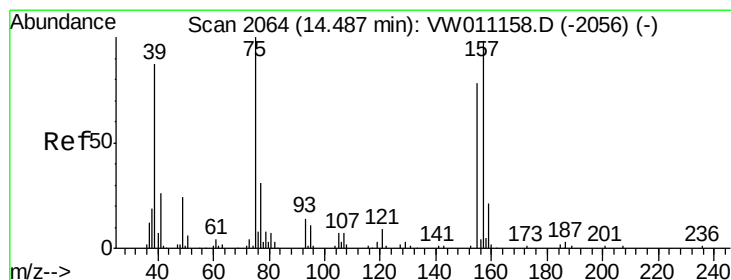
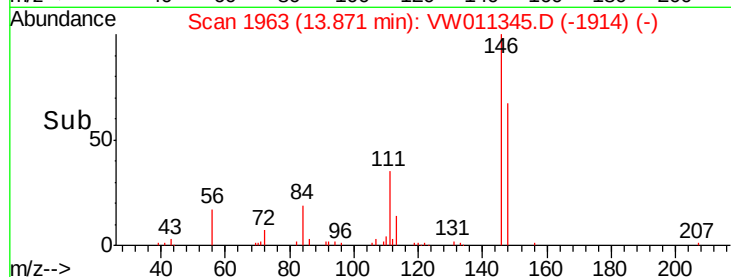
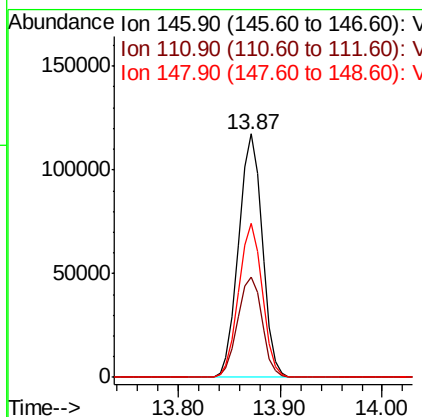
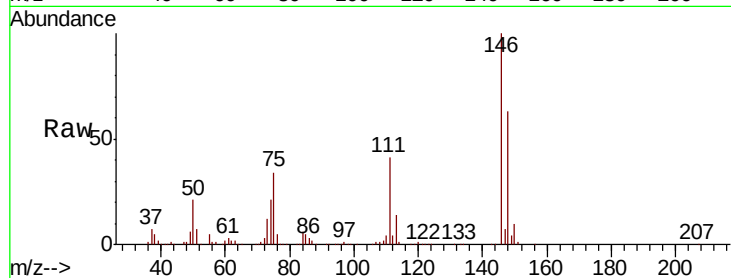




#91  
 1,2-Dichlorobenzene  
 Concen: 48.816 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

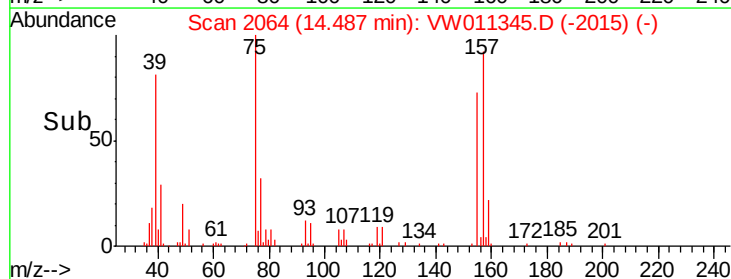
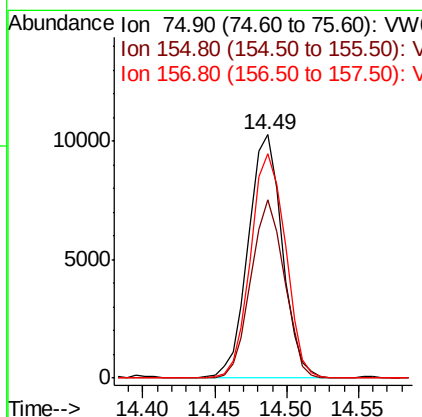
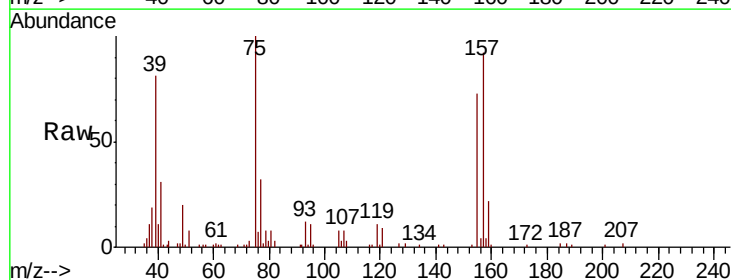
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

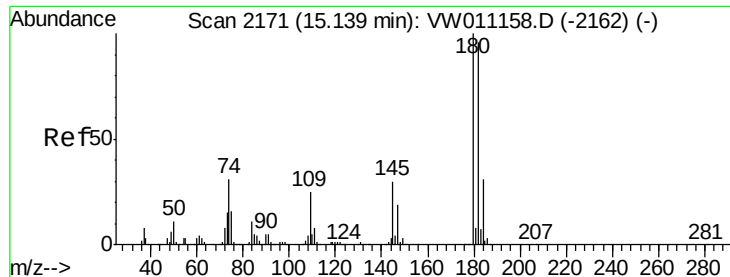
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.7  | 21.6  | 65.0  |
| 148     | 63.4  | 31.9  | 95.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 47.268 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 71.7  | 37.1  | 111.3 |
| 157     | 94.0  | 48.5  | 145.6 |

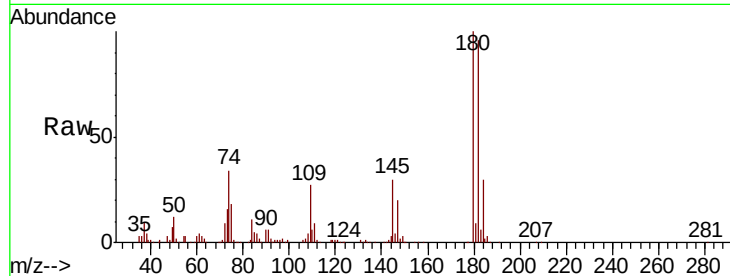




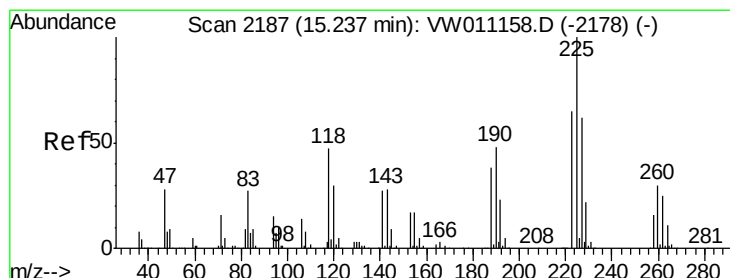
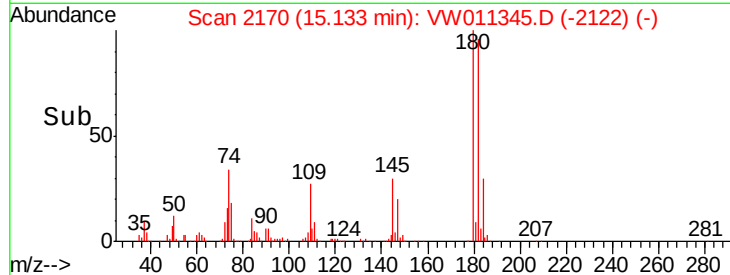
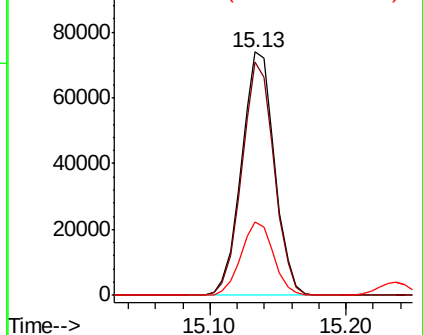
#93  
 1,2,4-Trichlorobenzene  
 Concen: 47.211 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.01 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion:180 Resp: 124794  
 Ion Ratio Lower Upper  
 180 100  
 182 93.9 48.3 144.9  
 145 29.7 15.5 46.5

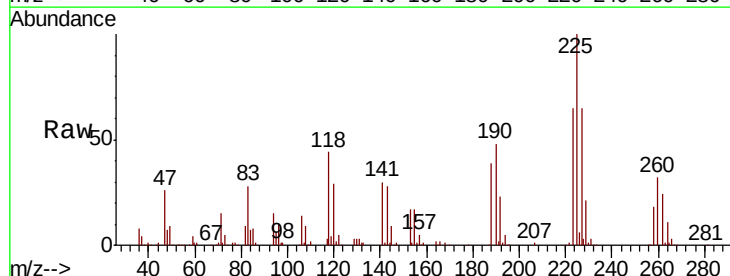


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

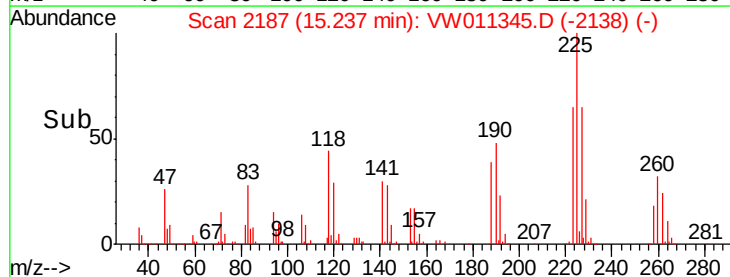
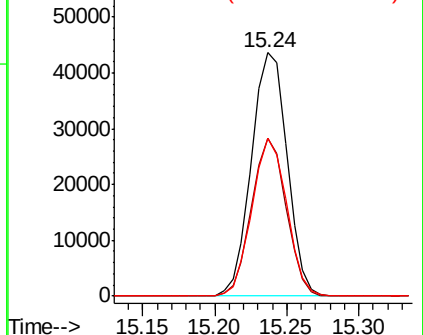


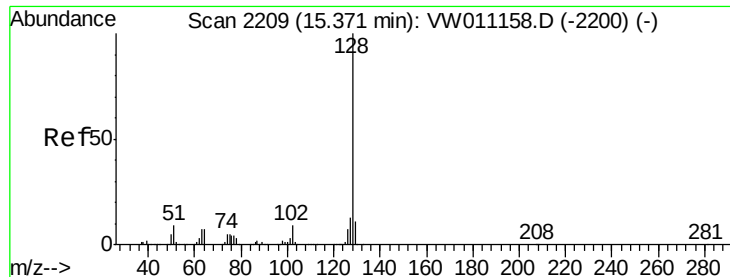
#94  
 Hexachlorobutadiene  
 Concen: 46.031 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. 0.00 min  
 Lab File: VW011345.D  
 Acq: 18 Jul 2019 20:14

Tgt Ion:225 Resp: 74701  
 Ion Ratio Lower Upper  
 225 100  
 223 63.1 31.6 95.0  
 227 63.1 32.0 96.0



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

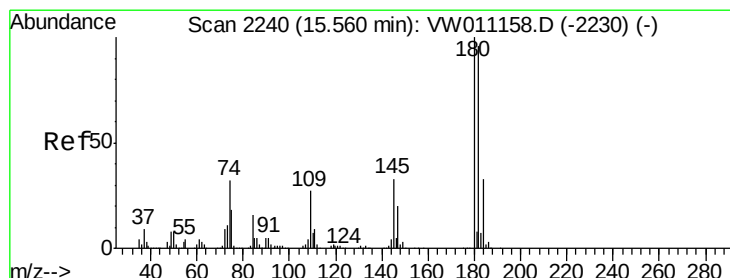
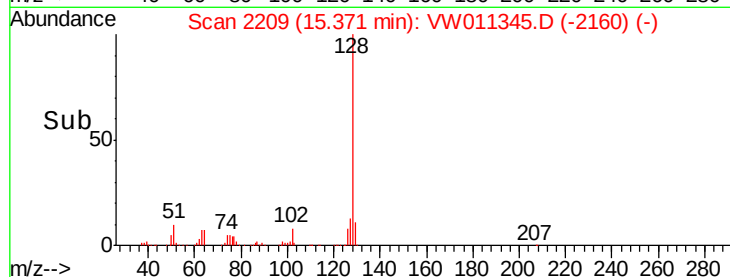
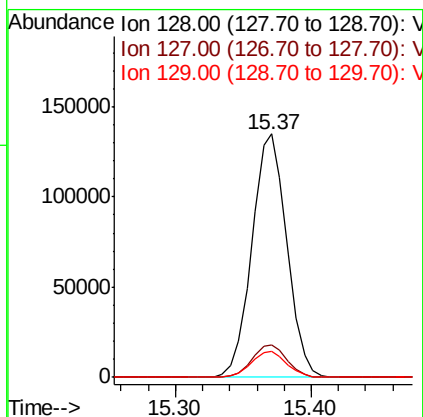
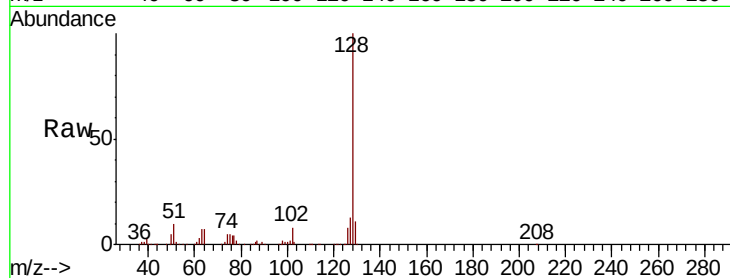




#95  
Naphthalene  
Concen: 47.799 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Tot Ion:128 Resp: 242116  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 16.0  
129 11.0 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 46.361 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VW011345.D  
Acq: 18 Jul 2019 20:14

Tgt Ion:180 Resp: 108153  
Ion Ratio Lower Upper  
180 100  
182 96.1 47.6 142.8  
145 32.2 16.5 49.5

