

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070920\  
 Data File : VW015825.D  
 Acq On : 09 Jul 2020 13:42  
 Operator : SY/VA  
 Sample : VW0709SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBS01

Quant Time: Jul 10 05:41:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 08 08:28:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 208403   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 332210   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 307757   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 158063   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 99433    | 46.33 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.66% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 88506    | 45.66 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.32% |      |
| 50) Toluene-d8            | 10.32  | 98  | 346204   | 46.50 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.00% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 132324   | 48.44 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.88% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 24028  | 21.892  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 29760  | 19.966  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.37 | 62  | 49861  | 21.665  | ug/l   | 98     |
| 5) Bromomethane               | 2.78 | 94  | 36298  | 20.612  | ug/l   | 91     |
| 6) Chloroethane               | 2.93 | 64  | 32804  | 21.120  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 35677  | 21.570  | ug/l   | 93     |
| 8) Diethyl Ether              | 3.68 | 74  | 20683  | 20.069  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 41694  | 21.534  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.28 | 142 | 55790  | 20.609  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 14512  | 126.567 | ug/l # | 85     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 40754  | 21.409  | ug/l   | 97     |
| 13) Acrolein                  | 3.89 | 56  | 13613  | 91.441  | ug/l   | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 63242  | 20.440  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.38 | 53  | 41289  | 102.471 | ug/l   | 100    |
| 16) Acetone                   | 4.12 | 43  | 42475  | 105.780 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.38 | 76  | 117130 | 20.684  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.68 | 43  | 18978  | 20.768  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 58697  | 20.602  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.92 | 84  | 50671  | 22.014  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 45235  | 20.516  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.32 | 45  | 128051 | 20.537  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 368531 | 99.373  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 81430  | 20.628  | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 55464  | 101.759 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 51231  | 20.686  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 49023  | 20.706  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 34058  | 21.763  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 33764  | 102.082 | ug/l   | 100    |
| 30) Chloroform                | 7.68 | 83  | 82464  | 20.435  | ug/l   | 97     |
| 31) Cyclohexane               | 7.96 | 56  | 77204  | 20.780  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 70309  | 20.778  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 67943  | 20.747  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 24883  | 19.555  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 63659  | 20.089  | ug/l   | 98     |

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 Sample : VW0709SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VW0709SBS01

Quant Time: Jul 10 05:41:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 08 08:28:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 80649    | 20.870  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 184607   | 20.579  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 15038    | 20.817  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 55902    | 20.023  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 48887    | 19.683  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 48050    | 20.251  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 44383    | 20.129  | ug/l   | 96       |
| 46) Dibromomethane             | 9.46  | 93   | 23067    | 20.320  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 58815    | 20.031  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 22087    | 19.403  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 5845     | 416.470 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 119277   | 98.412  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 118884   | 20.594  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 54667    | 19.404  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 66726    | 19.800  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 32099    | 20.392  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 38158    | 19.718  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 56624    | 20.321  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 88131    | 93.202  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 81910    | 101.268 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 36370    | 20.006  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 30254    | 20.087  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 39850    | 20.461  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.66 | 112  | 125098   | 20.785  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 42961    | 20.171  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 231657   | 20.785  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 174857   | 41.764  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 79600    | 20.828  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 137620   | 20.928  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 18941    | 19.484  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 225805   | 20.278  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 46132    | 19.364  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 35944    | 19.427  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 46505    | 33.477  | ug/l   | 34       |
| 77) Bromobenzene               | 12.75 | 156  | 49457    | 19.808  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 276046   | 20.424  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 155916   | 20.228  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 197585   | 20.819  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 9538     | 18.130  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 166860   | 20.731  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 161580   | 20.507  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 197494   | 20.837  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 239696   | 21.065  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 215205   | 20.711  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 102022   | 20.384  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 101431   | 20.701  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 210537   | 21.173  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 36906    | 19.596  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 90030    | 20.762  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 5729     | 19.379  | ug/l   | 99       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW070920\  
Data File : VW015825.D  
Acq On : 09 Jul 2020 13:42  
Operator : SY/VA  
Sample : VW0709SBSD01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

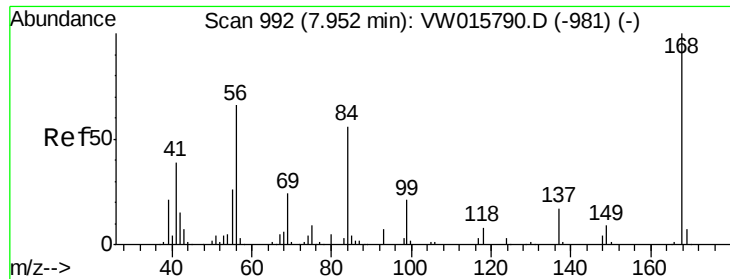
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

Quant Time: Jul 10 05:41:34 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070720S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 08 08:28:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 57973    | 21.206 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 36275    | 20.899 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 91254    | 19.677 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 49161    | 21.133 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

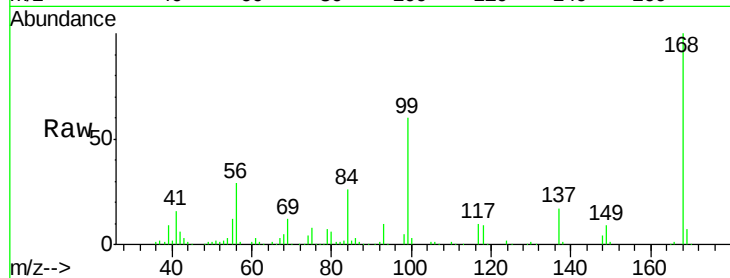
VW0709SBSD01

Tot Ion:168 Resp: 208403

Ion Ratio Lower Upper

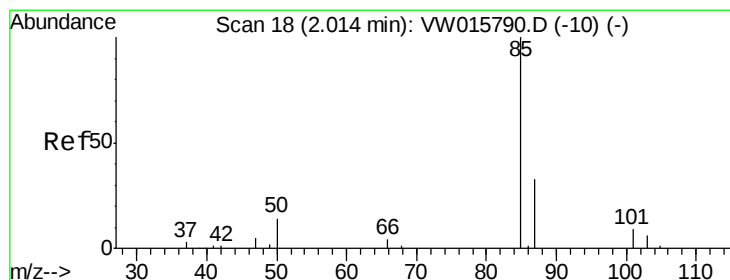
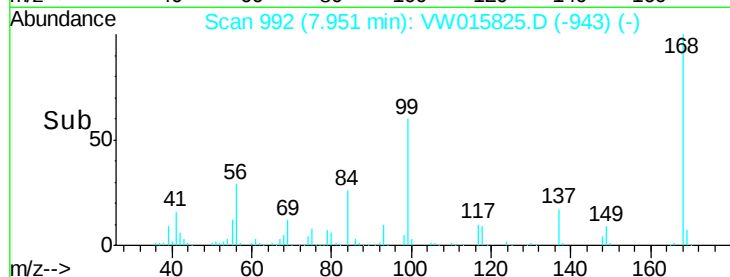
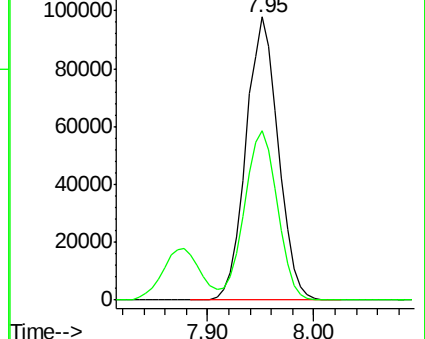
168 100

99 59.7 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 21.892 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015825.D

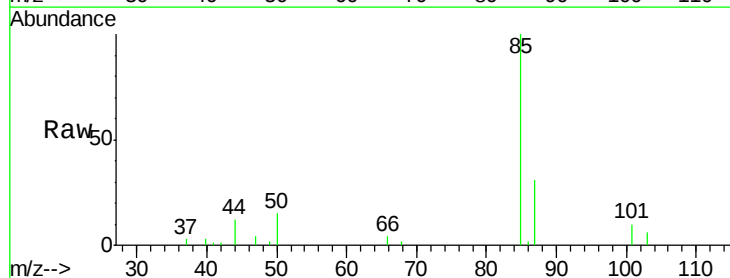
Acq: 09 Jul 2020 13:42

Tgt Ion: 85 Resp: 24028

Ion Ratio Lower Upper

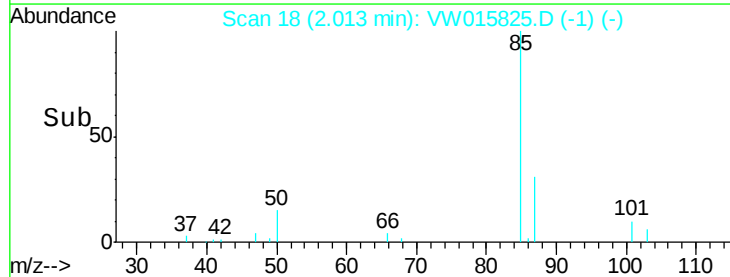
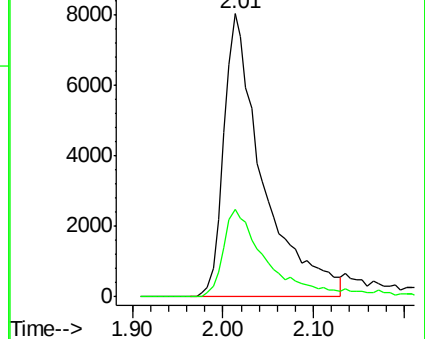
85 100

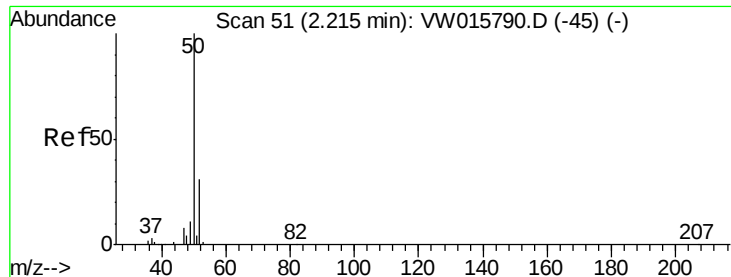
87 31.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 19.966 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

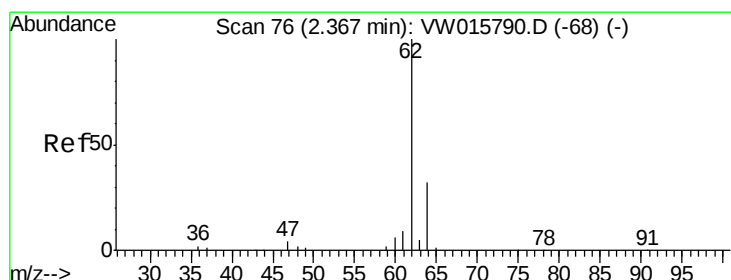
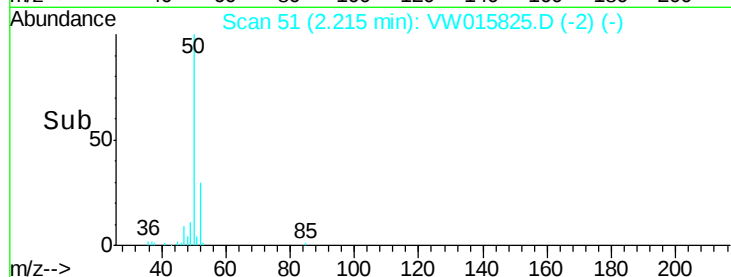
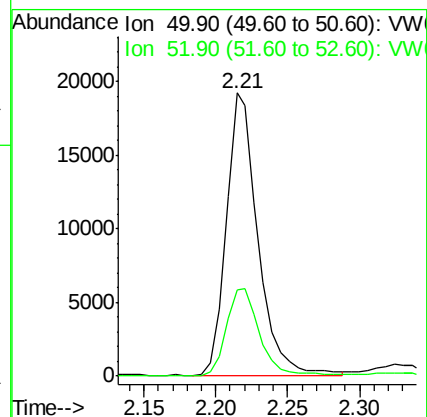
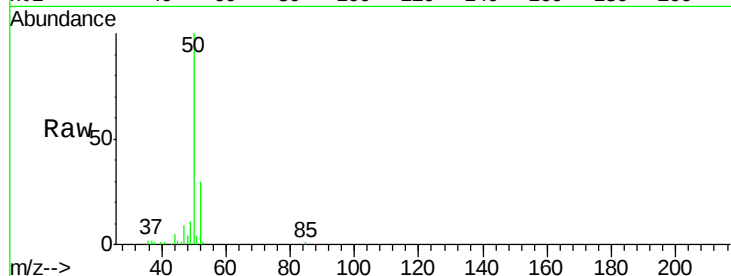
VW0709SBSD01

Tot Ion: 50 Resp: 29760

Ion Ratio Lower Upper

50 100

52 30.4 25.2 37.8



#4

Vinyl Chloride

Concen: 21.665 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015825.D

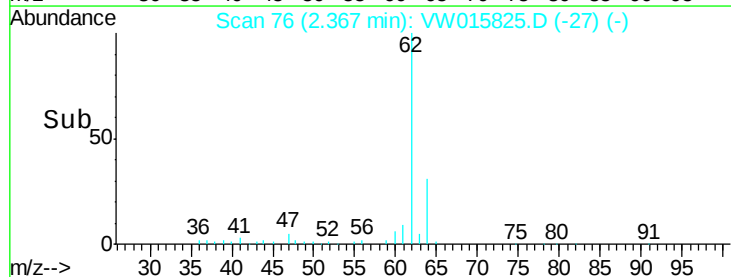
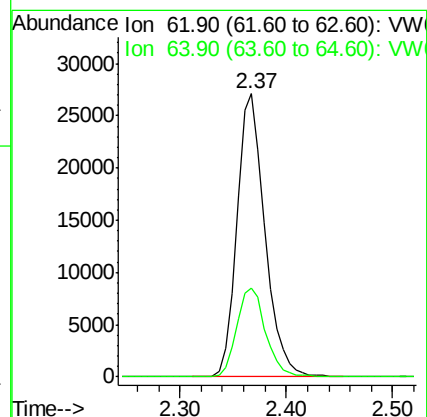
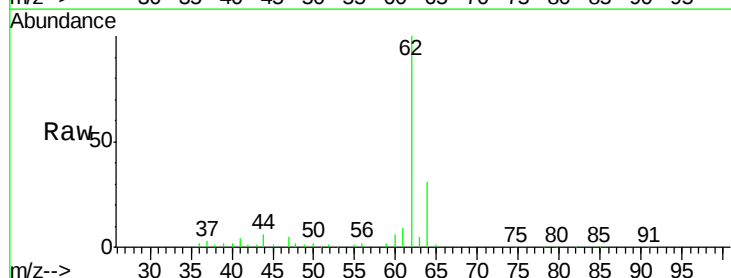
Acq: 09 Jul 2020 13:42

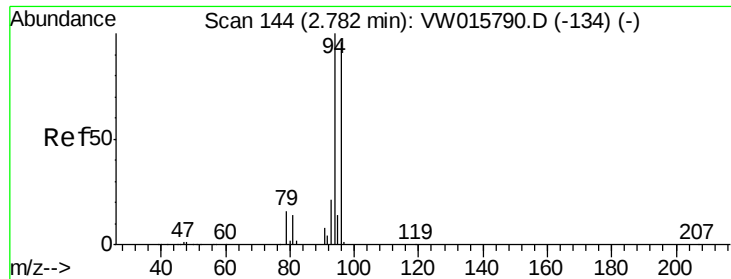
Tgt Ion: 62 Resp: 49861

Ion Ratio Lower Upper

62 100

64 31.2 25.8 38.8





#5

Bromomethane

Concen: 20.612 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

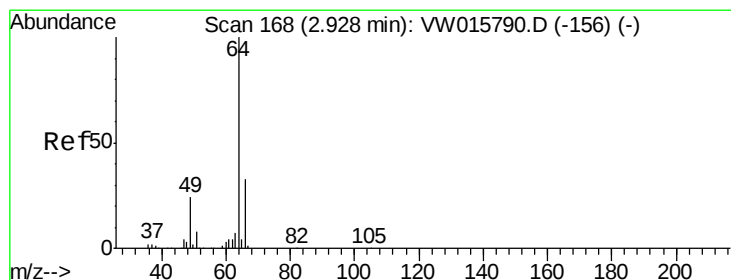
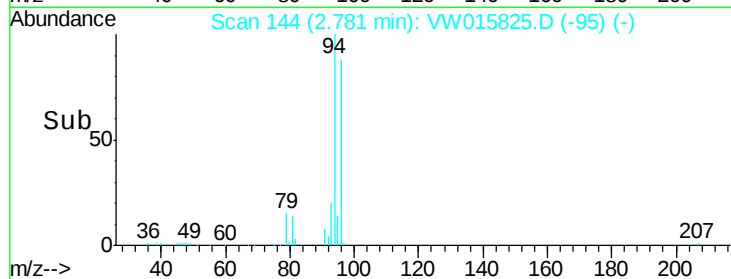
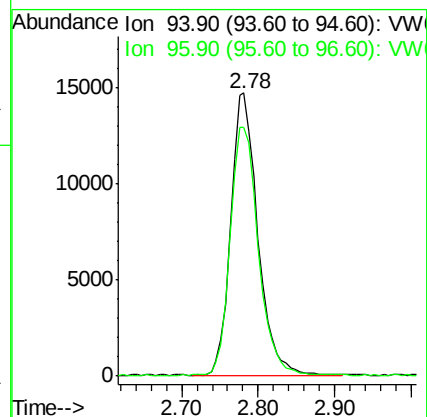
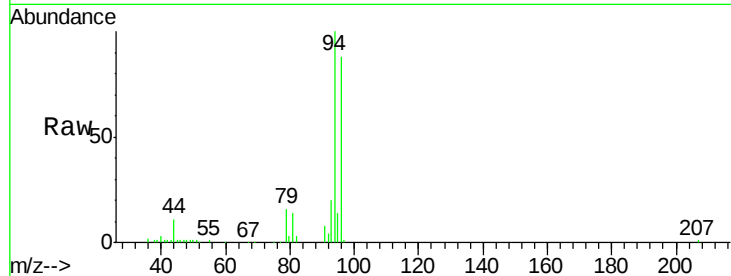
VW0709SBSD01

Tot Ion: 94 Resp: 36298

Ion Ratio Lower Upper

94 100

96 87.4 76.7 115.1



#6

Chloroethane

Concen: 21.120 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW015825.D

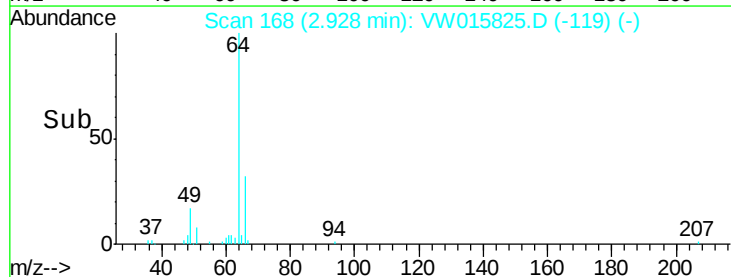
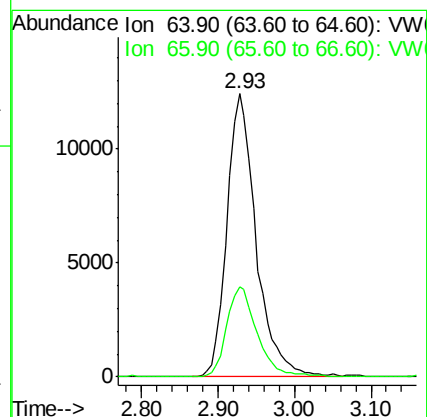
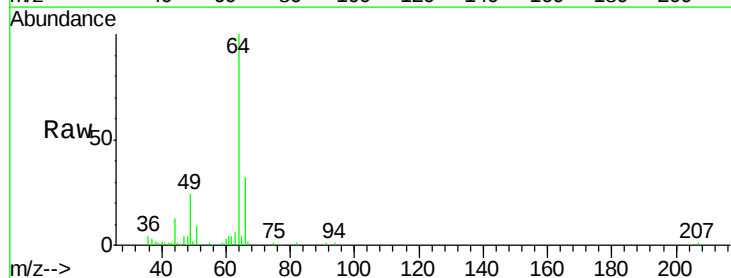
Acq: 09 Jul 2020 13:42

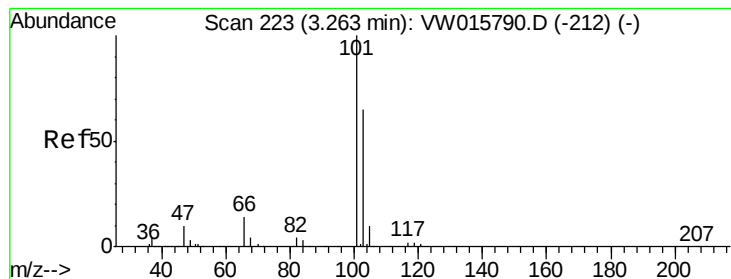
Tgt Ion: 64 Resp: 32804

Ion Ratio Lower Upper

64 100

66 31.7 26.0 39.0



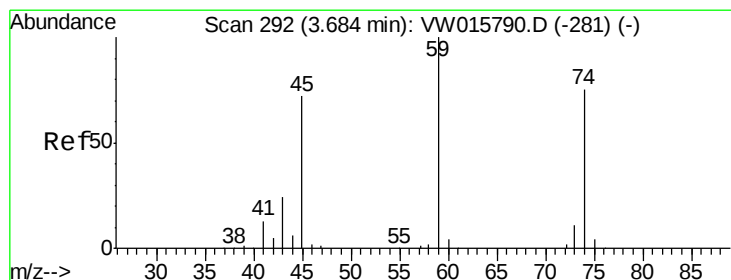
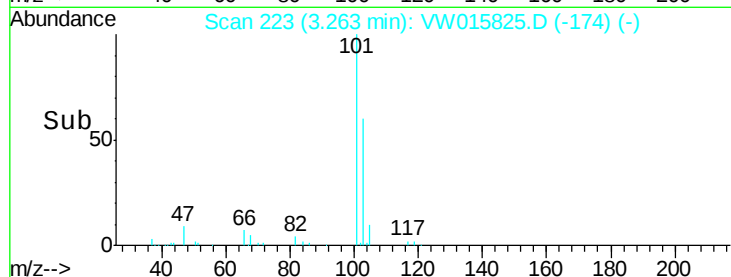
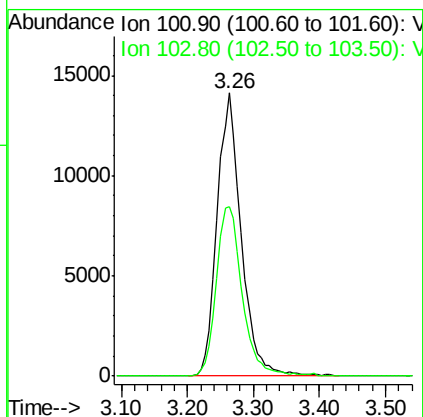
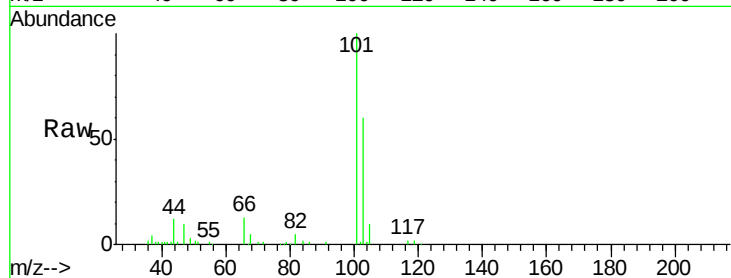


#7

Trichlorofluoromethane  
 Concen: 21.570 ug/l  
 RT: 3.26 min Scan# 223  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

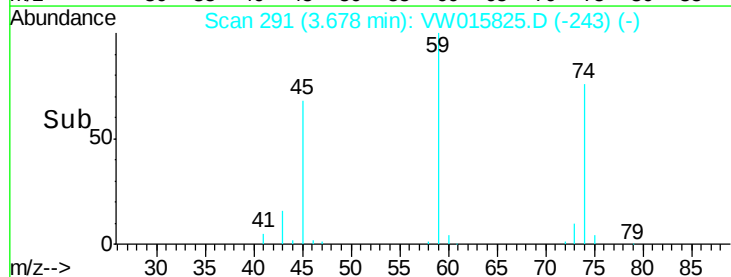
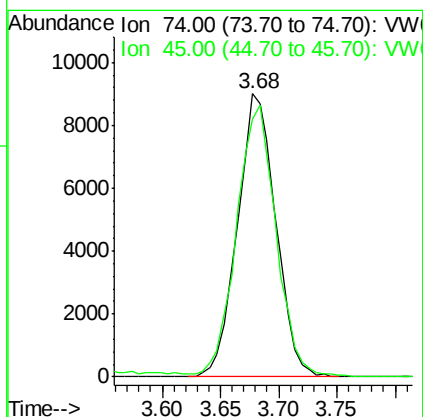
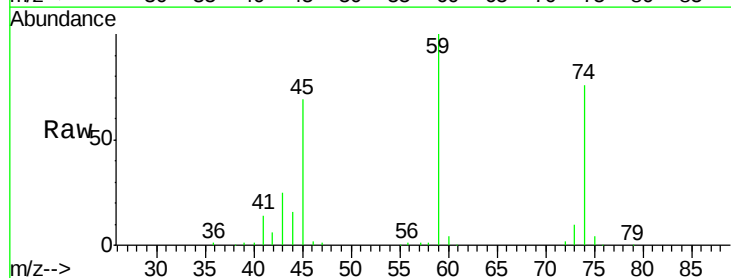
Tot Ion:101 Resp: 35677  
 Ion Ratio Lower Upper  
 101 100  
 103 59.8 52.2 78.4

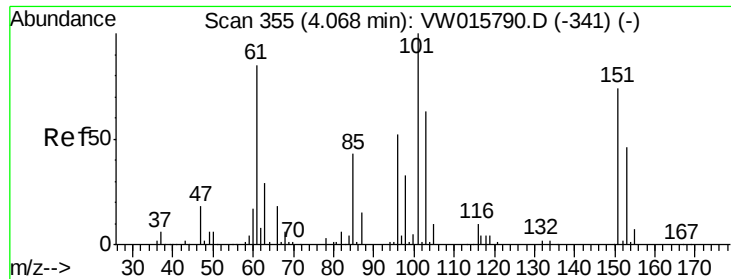


#8

Diethyl Ether  
 Concen: 20.069 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.01 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion: 74 Resp: 20683  
 Ion Ratio Lower Upper  
 74 100  
 45 99.3 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.534 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

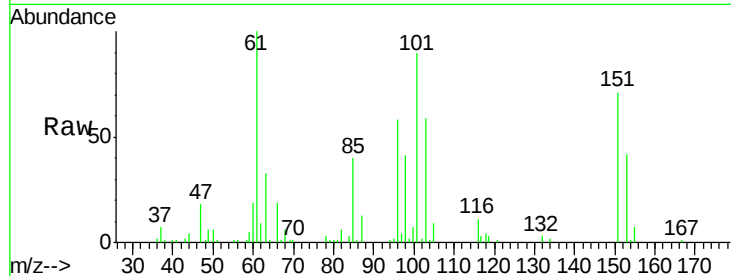
Tot Ion:101 Resp: 41694

Ion Ratio Lower Upper

101 100

85 44.5 36.1 54.1

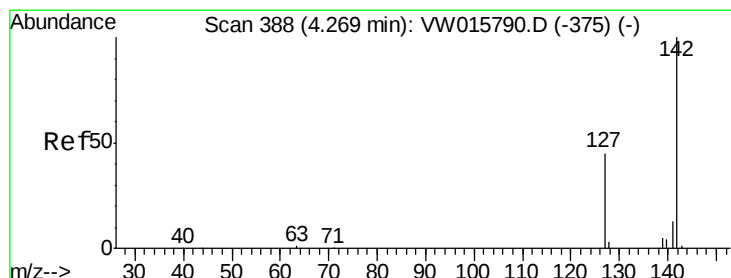
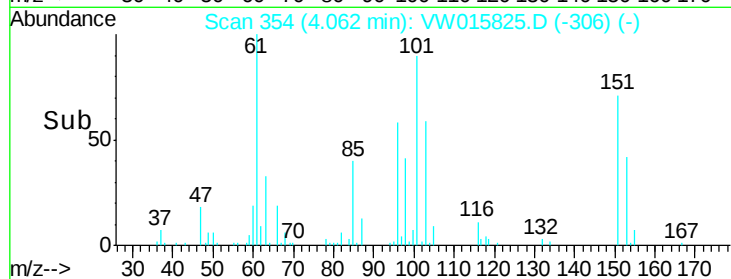
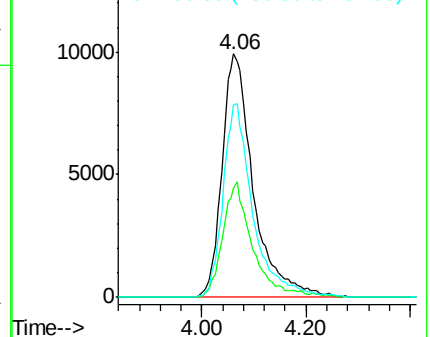
151 76.5 60.3 90.5



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: 20.609 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

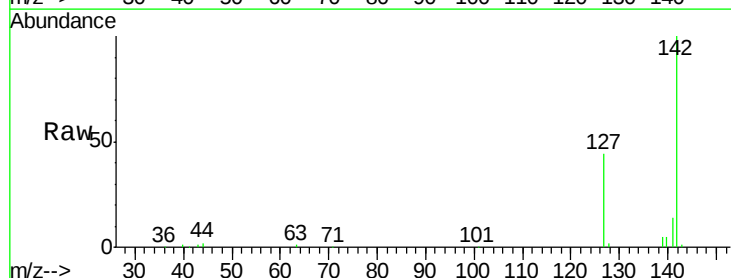
Tgt Ion:142 Resp: 55790

Ion Ratio Lower Upper

142 100

127 46.6 36.1 54.1

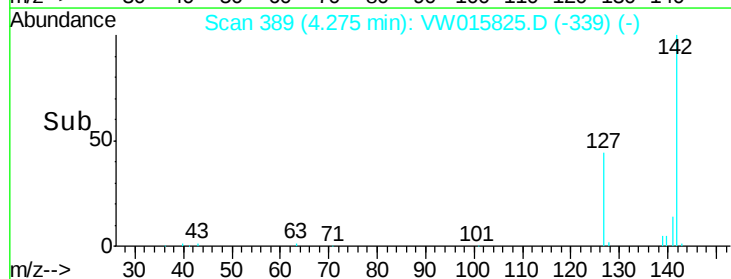
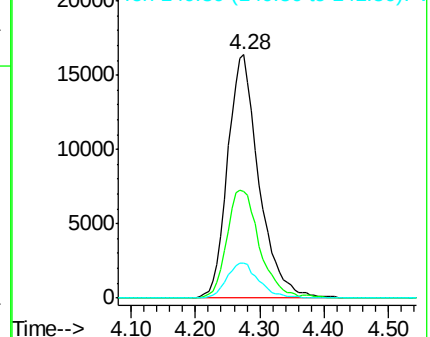
141 14.9 11.7 17.5

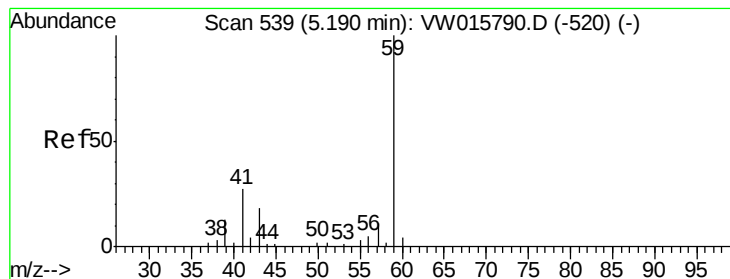


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



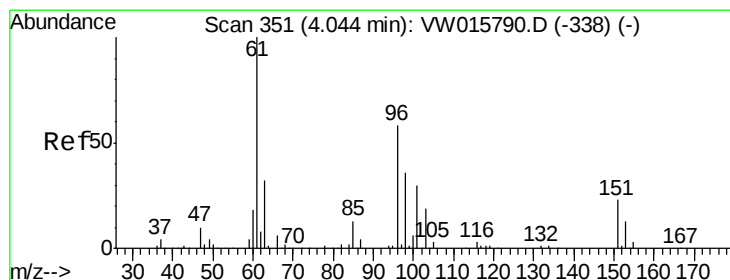
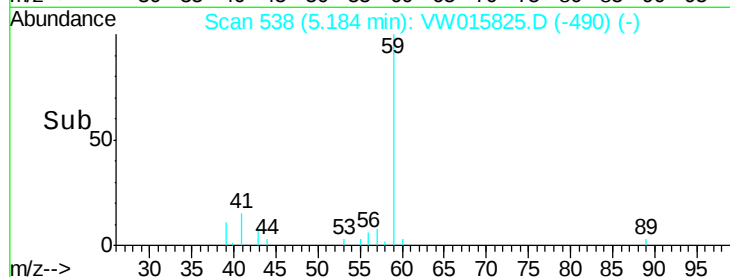
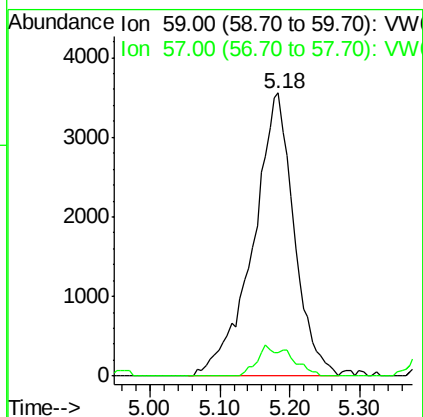
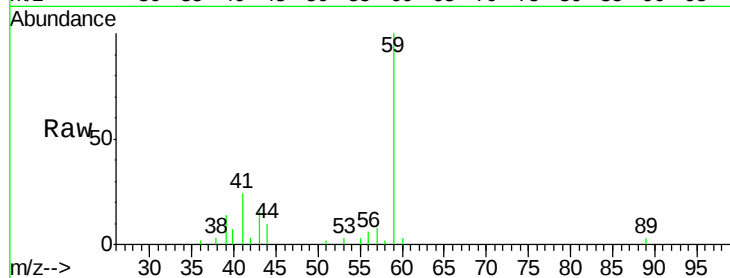


#11

Tert butyl alcohol  
 Concen: 126.567 ug/l  
 RT: 5.18 min Scan# 538  
 Delta R.T. -0.01 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

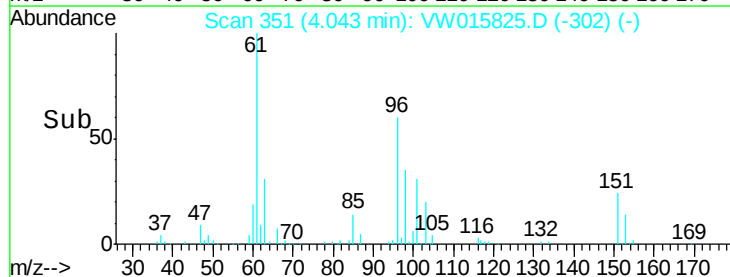
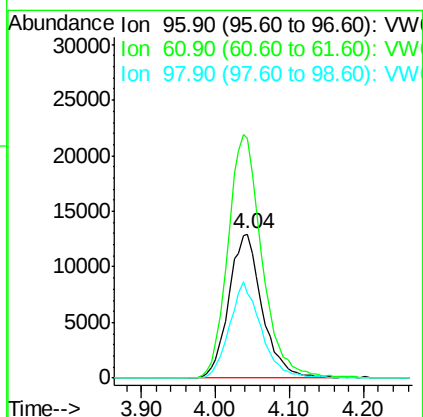
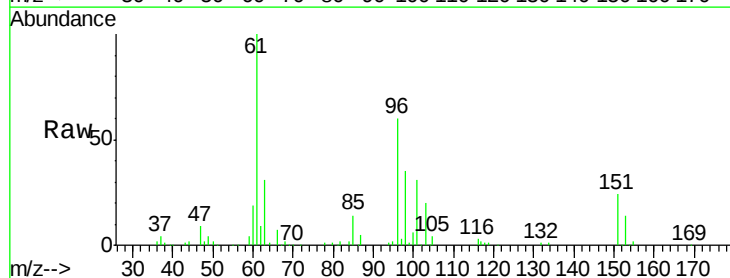
Tot Ion: 59 Resp: 14512  
 Ion Ratio Lower Upper  
 59 100  
 57 5.3 8.7 13.1#

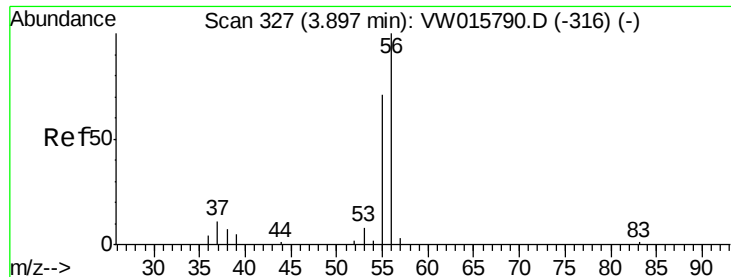


#12

1,1-Dichloroethene  
 Concen: 21.409 ug/l  
 RT: 4.04 min Scan# 351  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion: 96 Resp: 40754  
 Ion Ratio Lower Upper  
 96 100  
 61 166.8 137.0 205.4  
 98 58.9 49.3 73.9





#13

Acrolein

Concen: 91.441 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

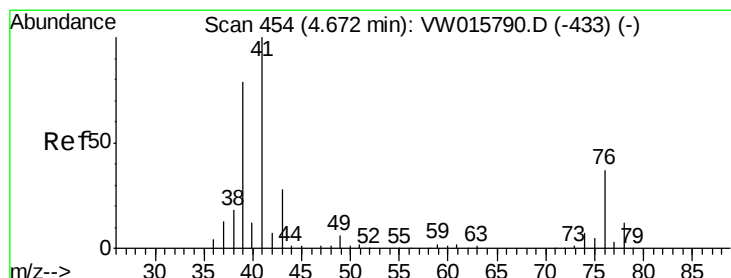
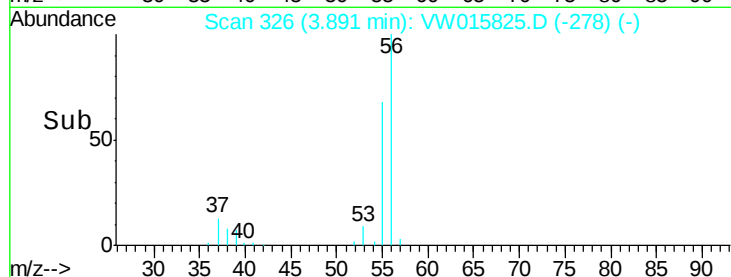
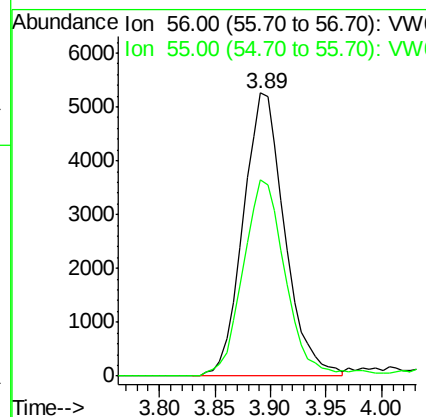
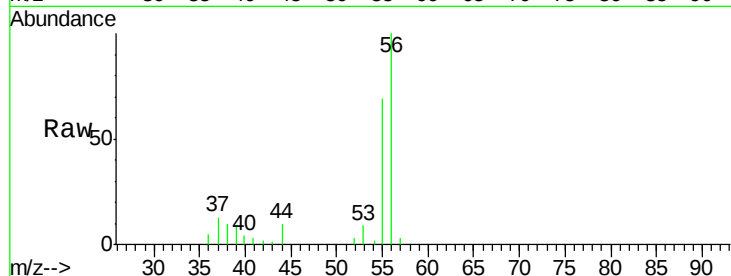
VW0709SBSD01

Tot Ion: 56 Resp: 13613

Ion Ratio Lower Upper

56 100

55 70.4 55.8 83.6



#14

Allyl chloride

Concen: 20.440 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

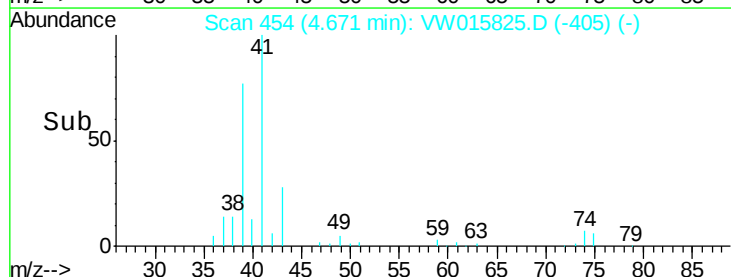
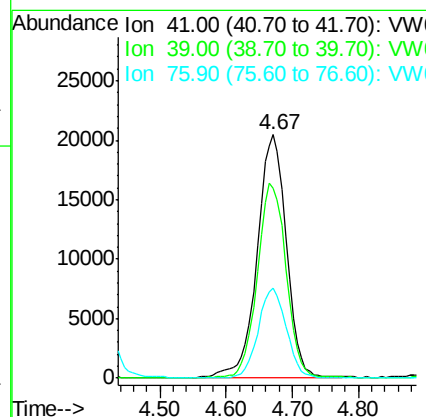
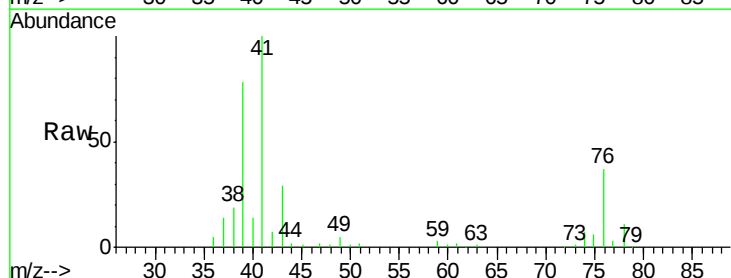
Tgt Ion: 41 Resp: 63242

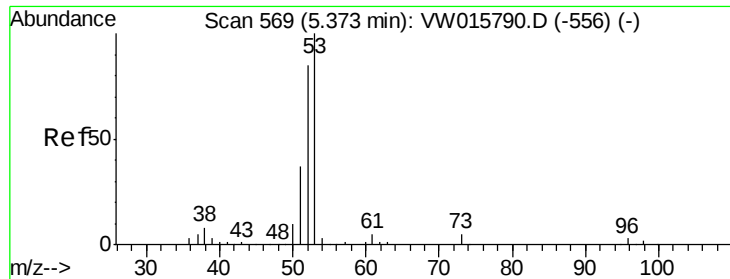
Ion Ratio Lower Upper

41 100

39 78.7 64.0 96.0

76 35.3 28.9 43.3





#15

Acrylonitrile

Concen: 102.471 ug/l

RT: 5.38 min Scan# 570

Delta R.T. 0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

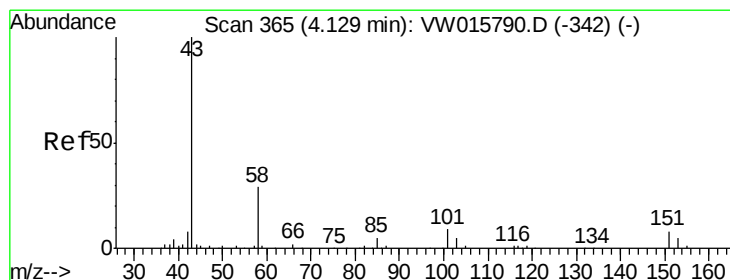
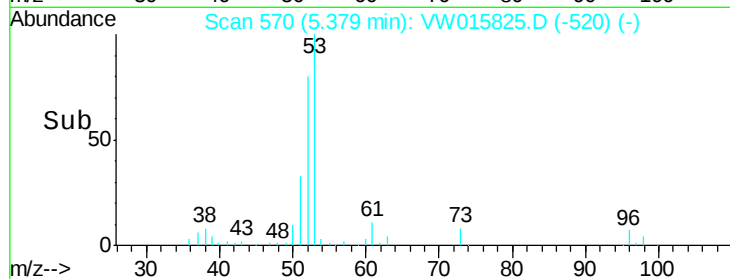
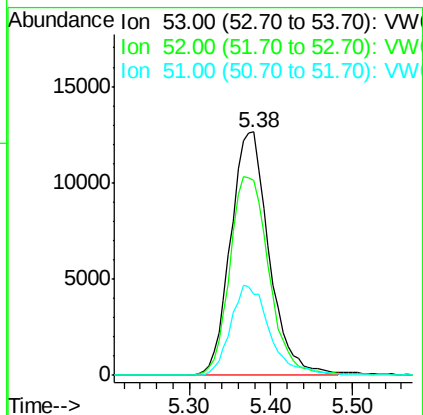
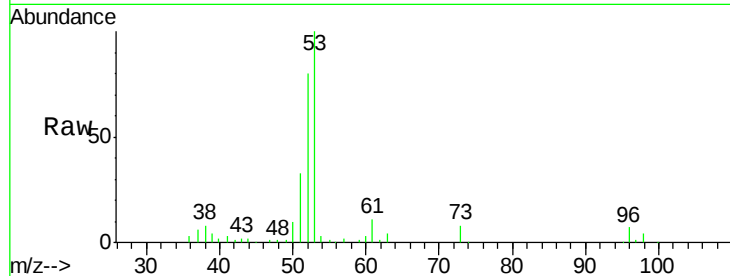
Tot Ion: 53 Resp: 41289

Ion Ratio Lower Upper

53 100

52 82.7 65.8 98.8

51 37.8 30.2 45.2



#16

Acetone

Concen: 105.780 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW015825.D

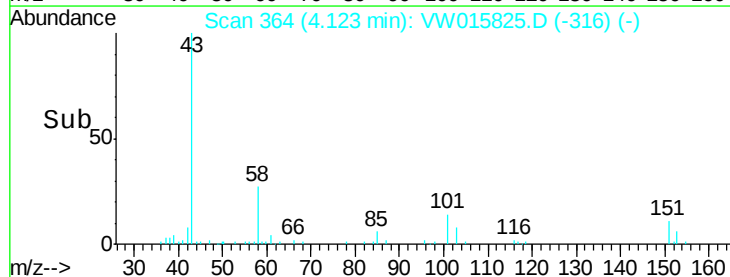
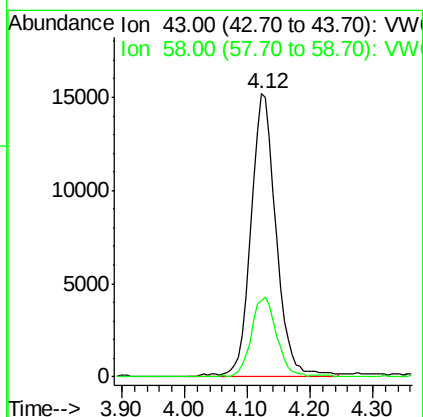
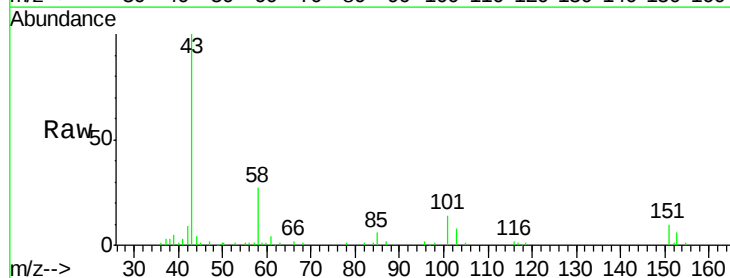
Acq: 09 Jul 2020 13:42

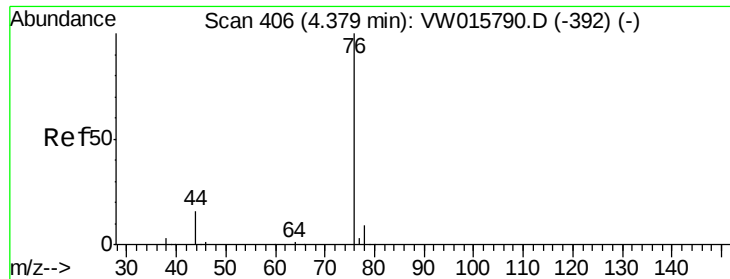
Tgt Ion: 43 Resp: 42475

Ion Ratio Lower Upper

43 100

58 26.9 23.5 35.3

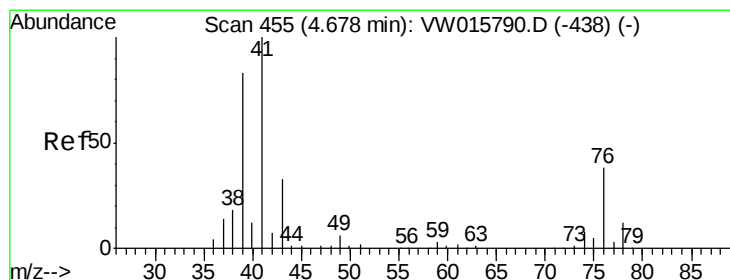
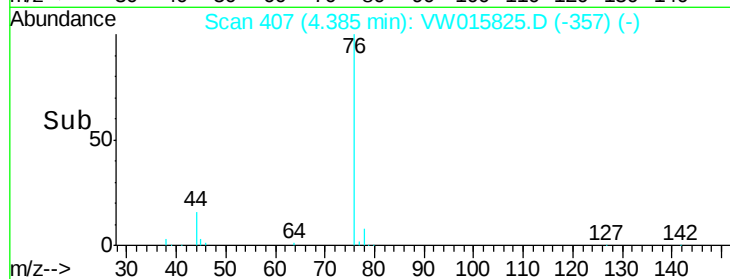
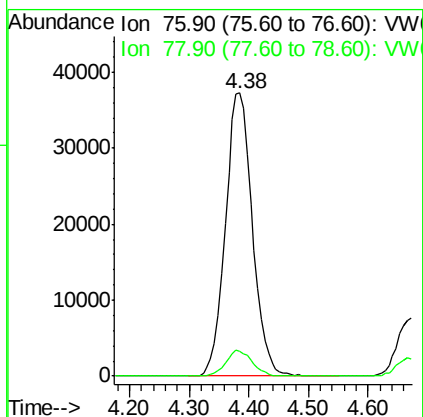
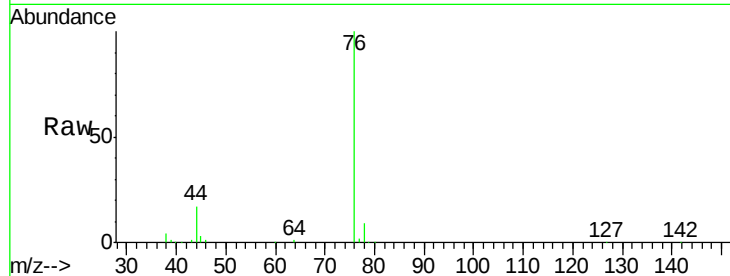




#17  
Carbon Disulfide  
Concen: 20.684 ug/l  
RT: 4.38 min Scan# 407  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

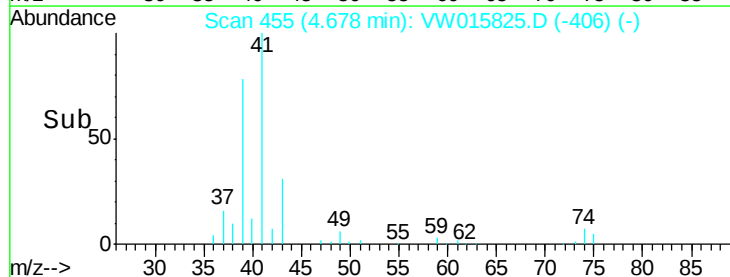
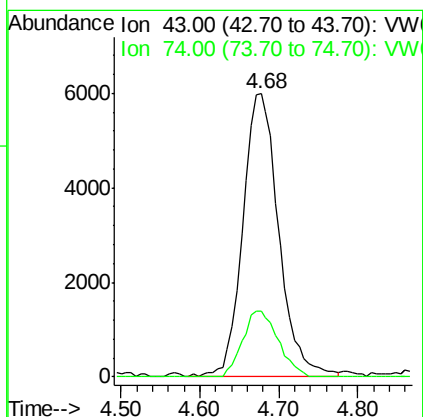
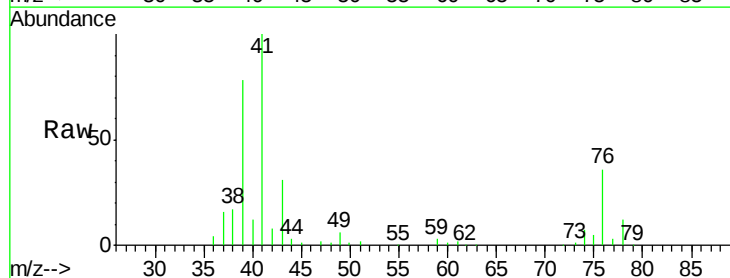
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

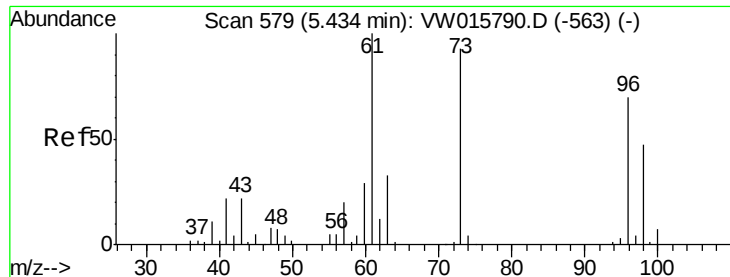
Tot Ion: 76 Resp: 117130  
Ion Ratio Lower Upper  
76 100  
78 8.6 7.4 11.0



#18  
Methyl Acetate  
Concen: 20.768 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 43 Resp: 18978  
Ion Ratio Lower Upper  
43 100  
74 23.0 19.2 28.8

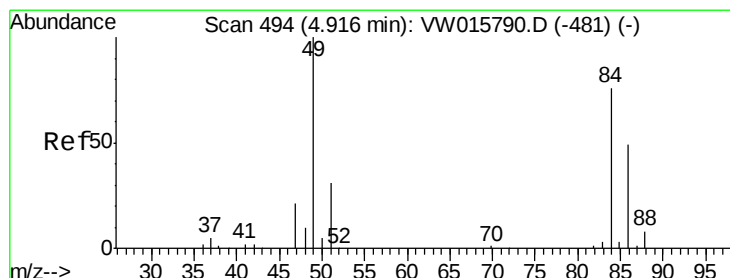
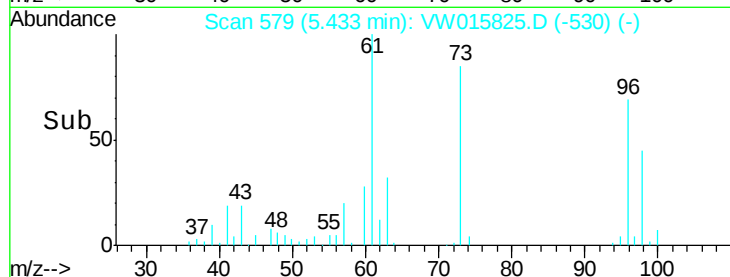
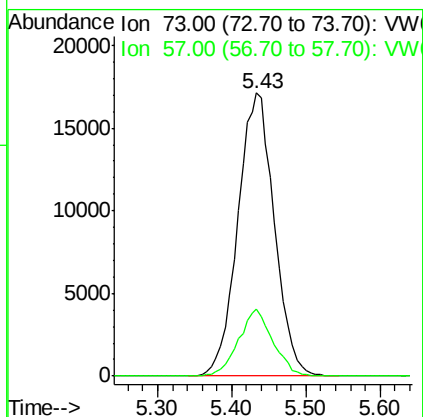
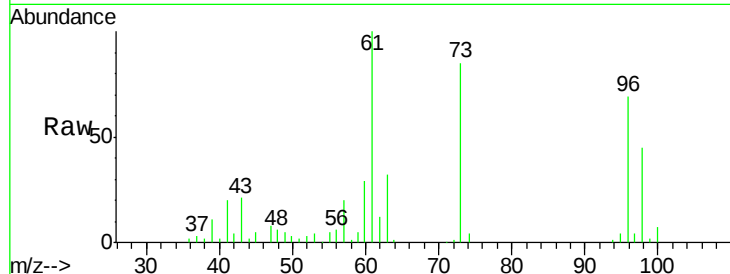




#19  
Methyl tert-butyl Ether  
Concen: 20.602 ug/l  
RT: 5.43 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

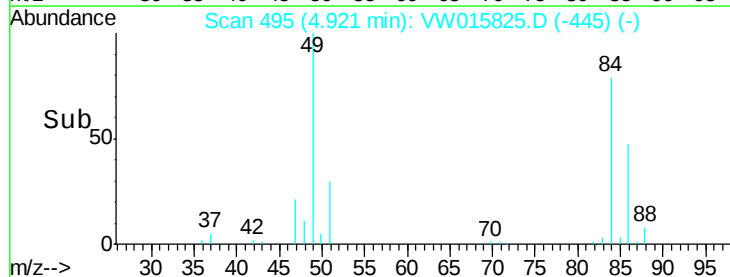
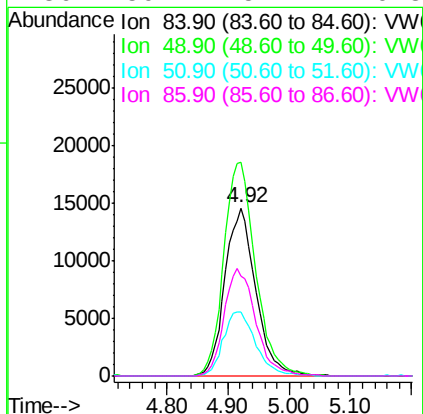
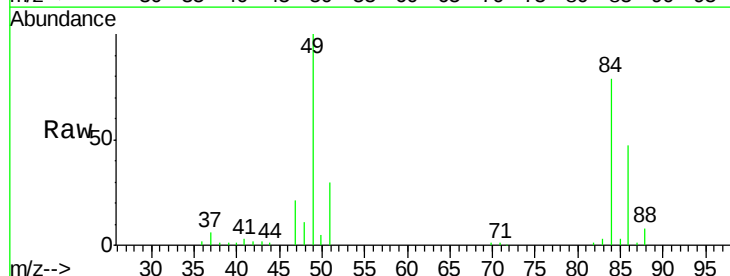
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

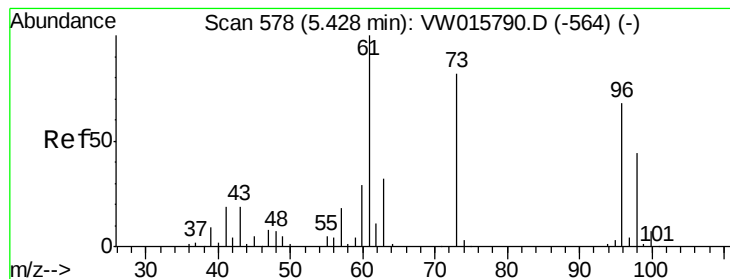
Tot Ion: 73 Resp: 58697  
Ion Ratio Lower Upper  
73 100  
57 23.6 16.8 25.2



#20  
Methylene Chloride  
Concen: 22.014 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 84 Resp: 50671  
Ion Ratio Lower Upper  
84 100  
49 127.0 105.0 157.6  
51 38.2 32.3 48.5  
86 59.2 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 20.516 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

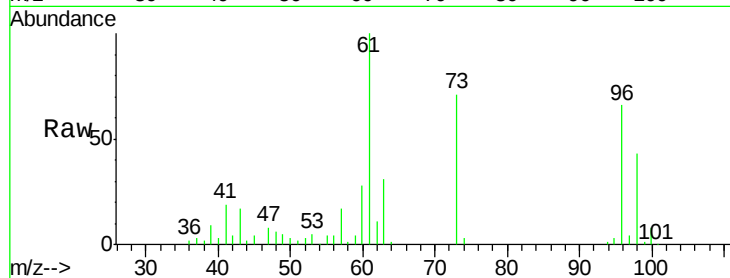
Tot Ion: 96 Resp: 45235

Ion Ratio Lower Upper

96 100

61 150.9 118.1 177.1

98 65.6 52.6 78.8

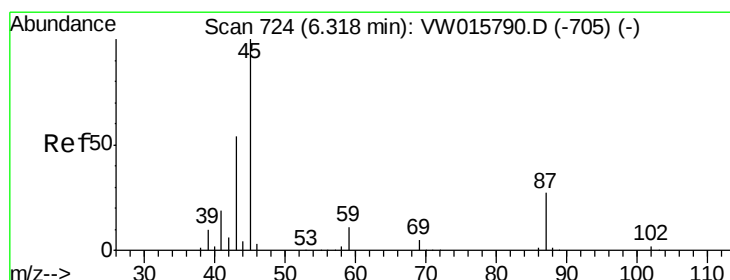
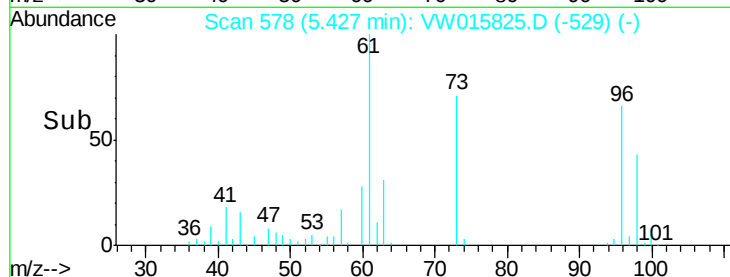
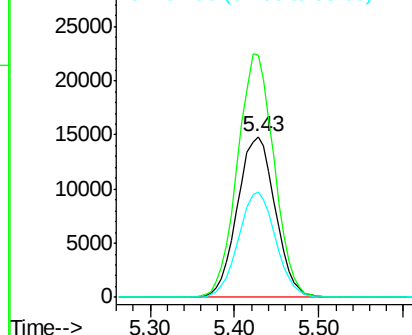


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.537 ug/l

RT: 6.32 min Scan# 724

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Tgt Ion: 45 Resp: 128051

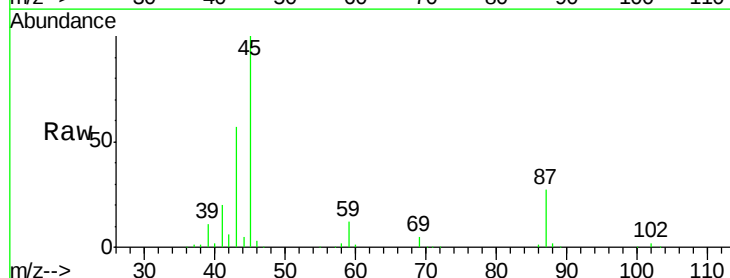
Ion Ratio Lower Upper

45 100

43 56.9 43.8 65.6

87 26.7 22.1 33.1

59 12.4 8.9 13.3



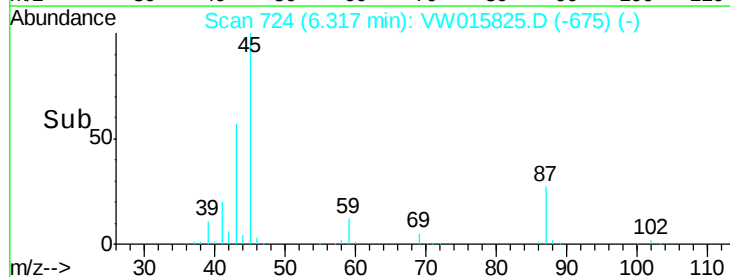
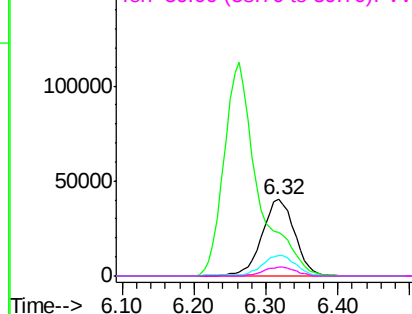
Abundance

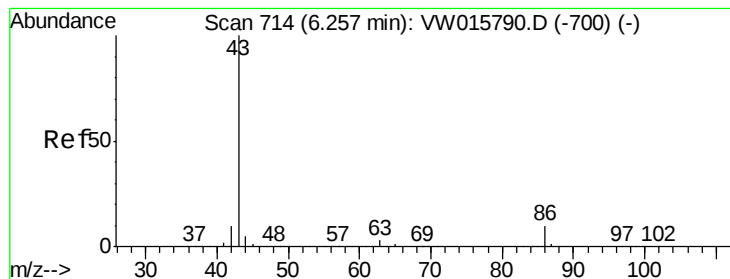
Ion 45.00 (44.70 to 45.70): VW

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: 99.373 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

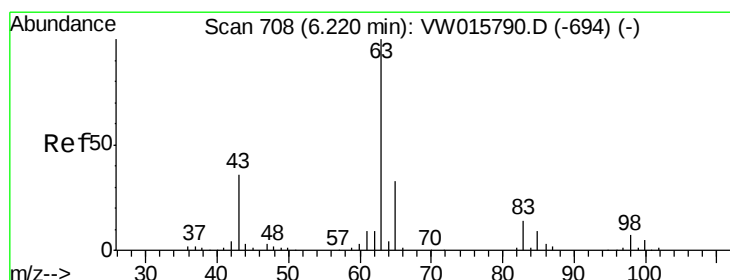
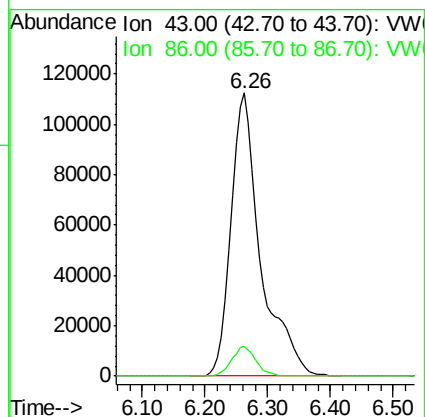
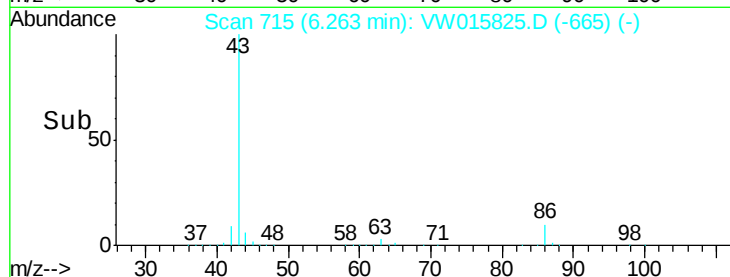
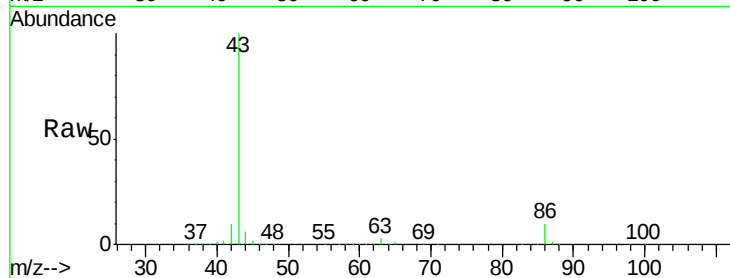
VW0709SBSD01

Tot Ion: 43 Resp: 368531

Ion Ratio Lower Upper

43 100

86 10.5 8.2 12.4



#24

1,1-Dichloroethane

Concen: 20.628 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

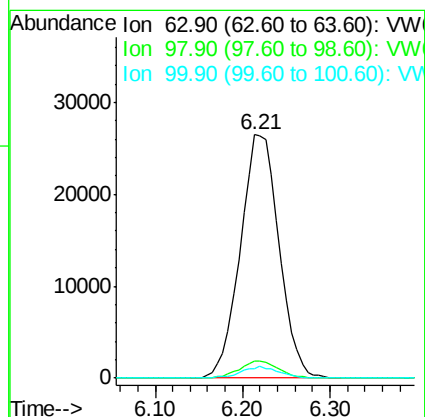
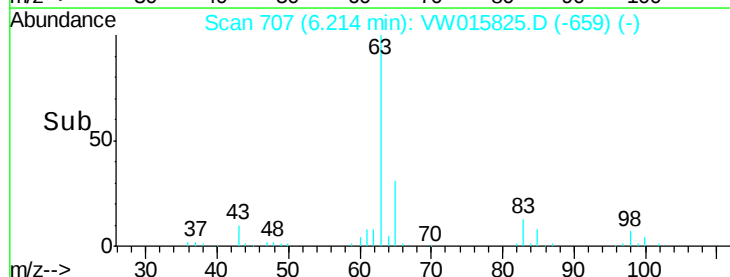
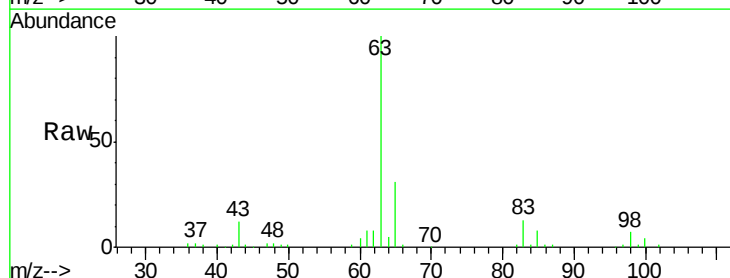
Tgt Ion: 63 Resp: 81430

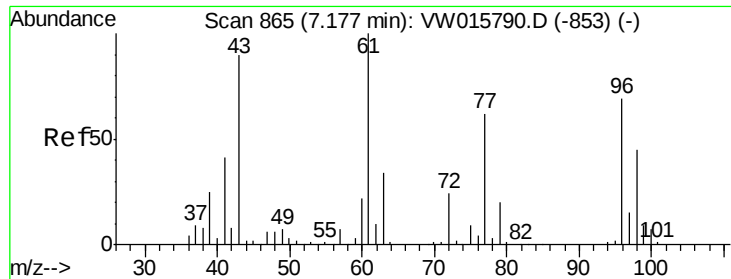
Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.2

100 4.1 2.4 7.1





#25

2-Butanone

Concen: 101.759 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

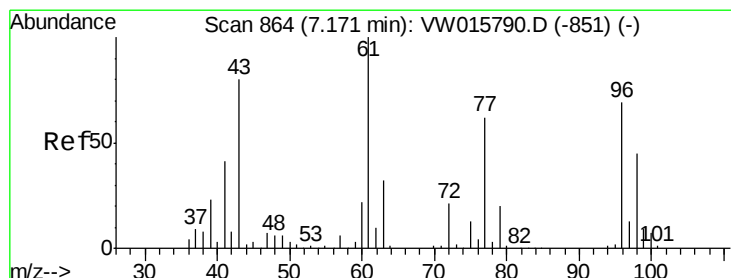
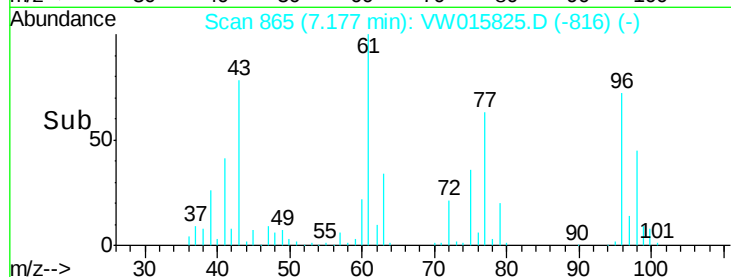
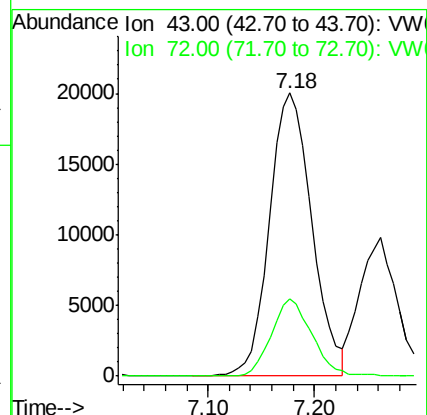
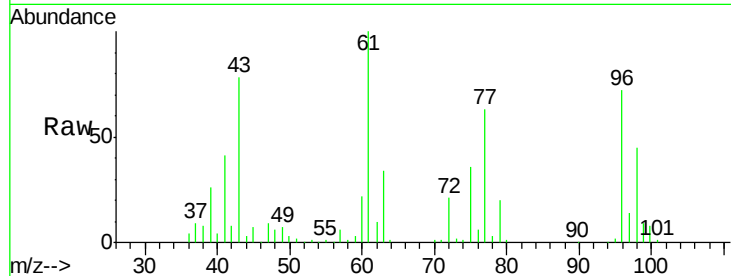
VW0709SBSD01

Tot Ion: 43 Resp: 55464

Ion Ratio Lower Upper

43 100

72 27.2 21.3 31.9



#26

2,2-Dichloropropane

Concen: 20.686 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015825.D

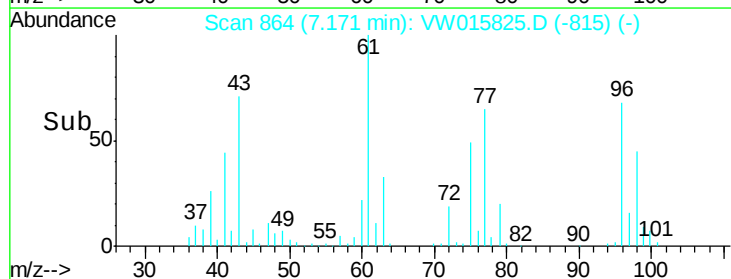
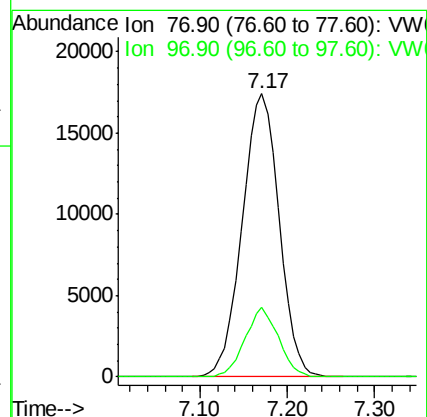
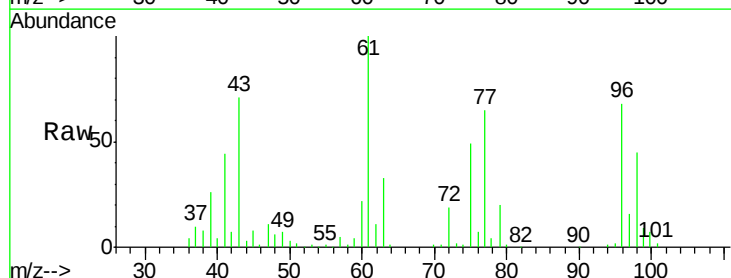
Acq: 09 Jul 2020 13:42

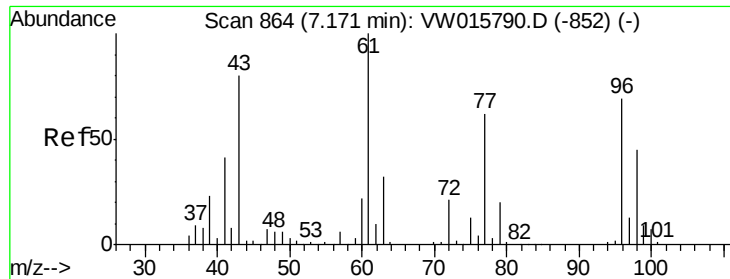
Tgt Ion: 77 Resp: 51231

Ion Ratio Lower Upper

77 100

97 22.1 11.0 33.0



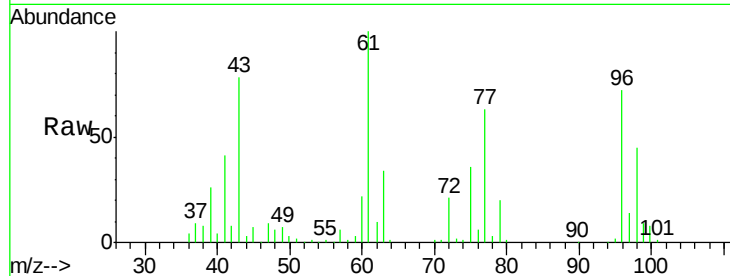


#27

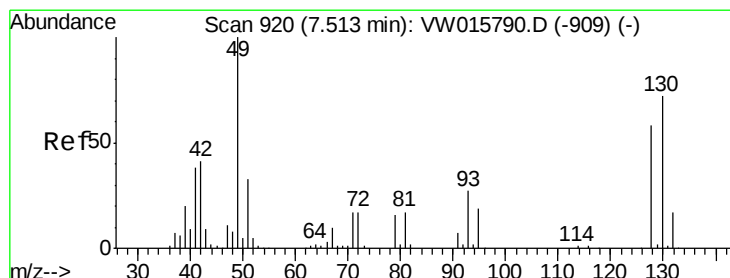
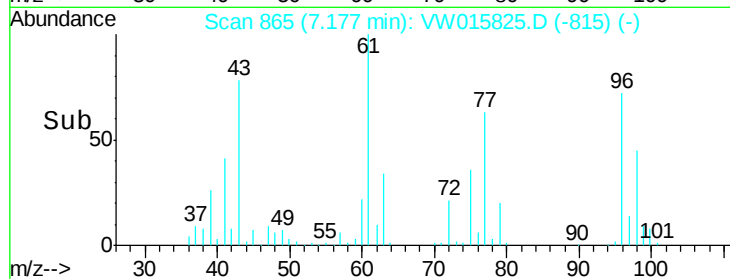
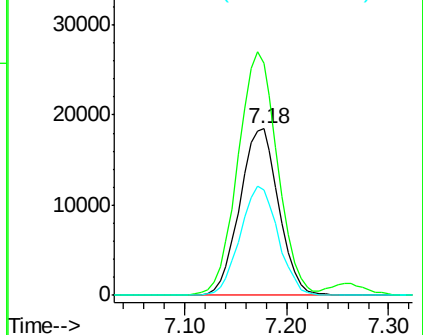
cis-1,2-Dichloroethene  
Concen: 20.706 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Instrument :  
MSVOA\_W  
ClientSampled :  
VW0709SBSD01

Tot Ion: 96 Resp: 49023  
Ion Ratio Lower Upper  
96 100  
61 148.1 0.0 292.2  
98 64.0 0.0 129.0



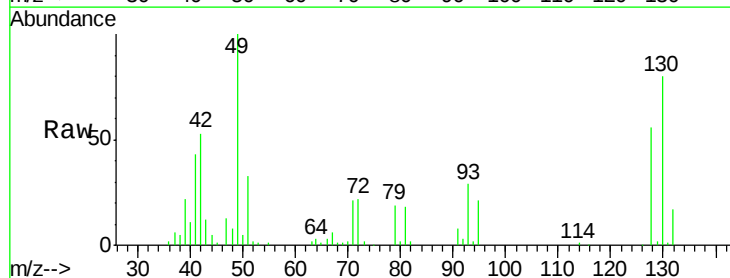
Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



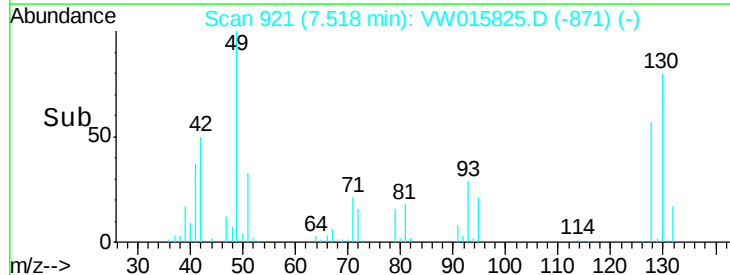
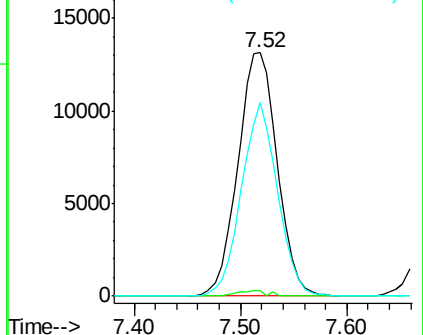
#28

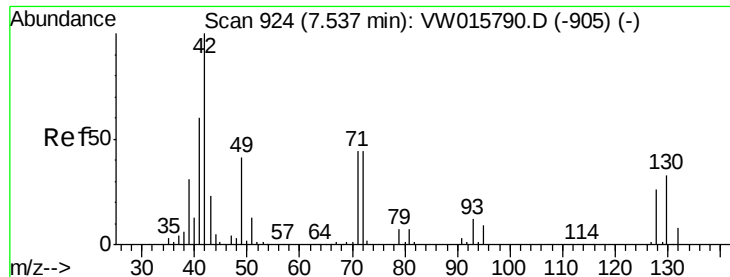
Bromochloromethane  
Concen: 21.763 ug/l  
RT: 7.52 min Scan# 921  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 49 Resp: 34058  
Ion Ratio Lower Upper  
49 100  
129 1.6 0.0 2.6  
130 73.1 59.5 89.3



Abundance Ion 48.90 (48.60 to 49.60): VW  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

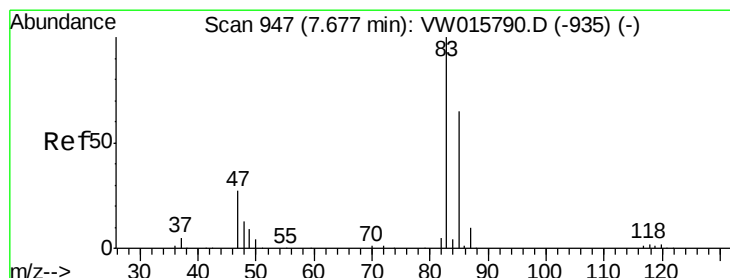
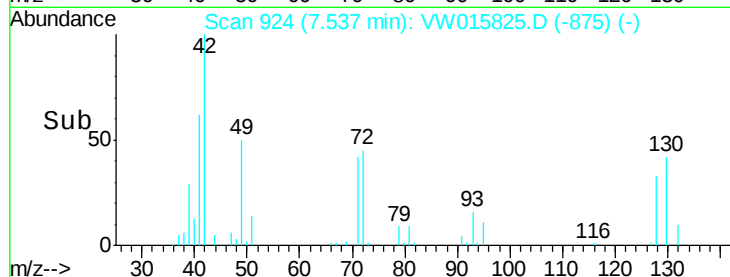
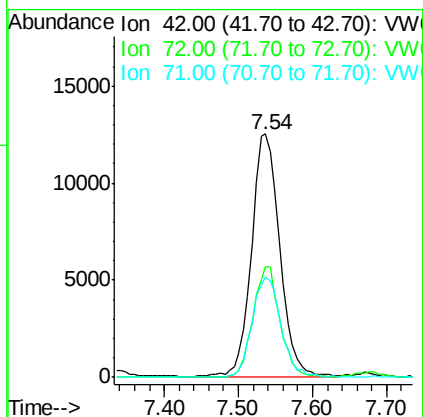
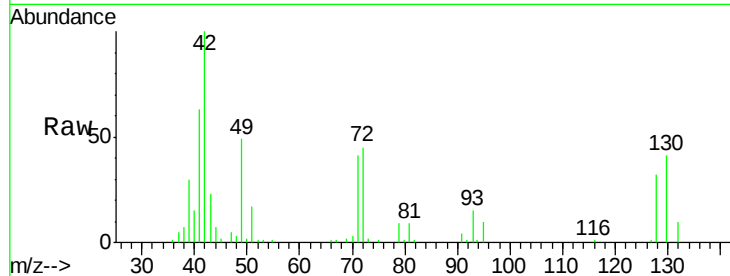




#29  
Tetrahydrofuran  
Concen: 102.082 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

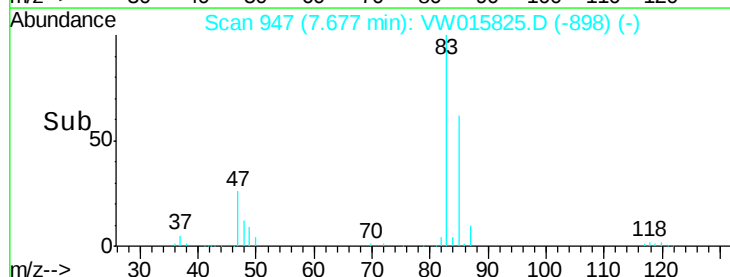
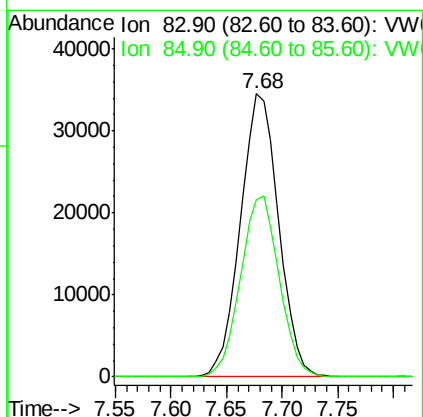
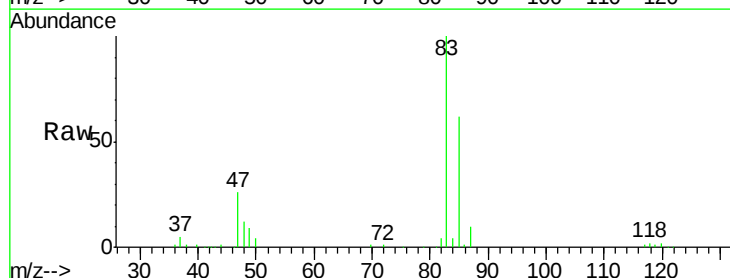
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

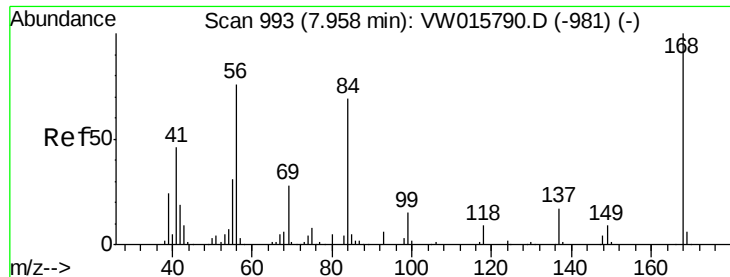
Tot Ion: 42 Resp: 33764  
Ion Ratio Lower Upper  
42 100  
72 42.9 34.6 51.8  
71 41.3 32.8 49.2



#30  
Chloroform  
Concen: 20.435 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 83 Resp: 82464  
Ion Ratio Lower Upper  
83 100  
85 62.4 51.6 77.4

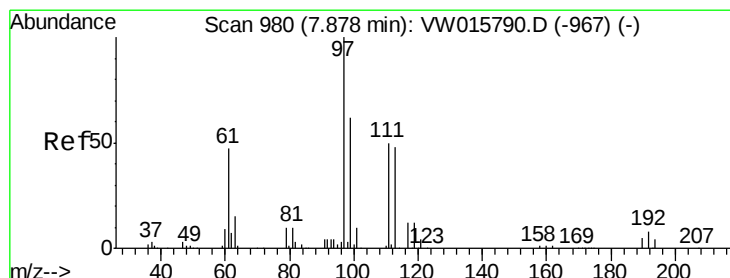
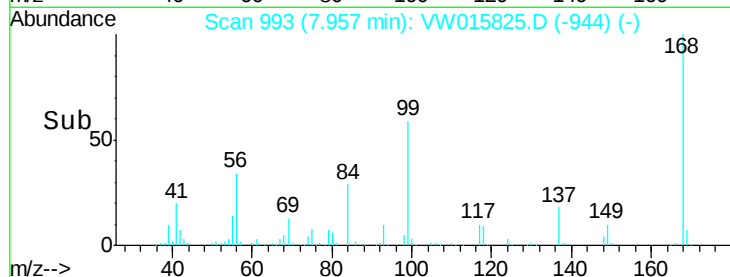
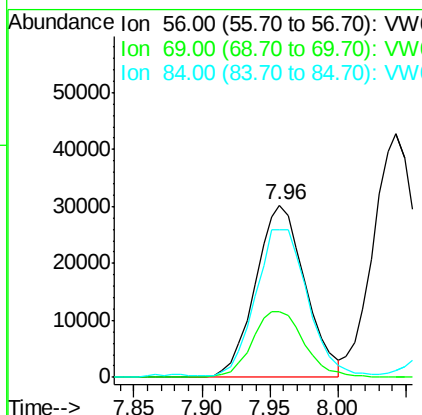
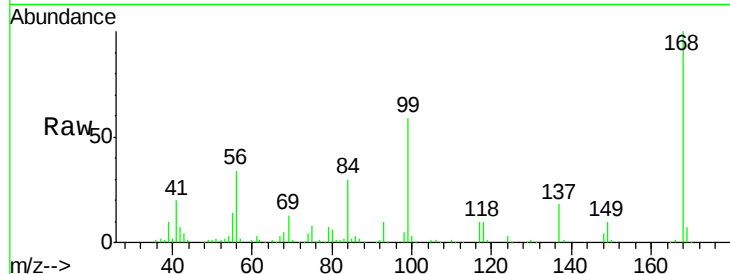




#31  
Cyclohexane  
Concen: 20.780 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

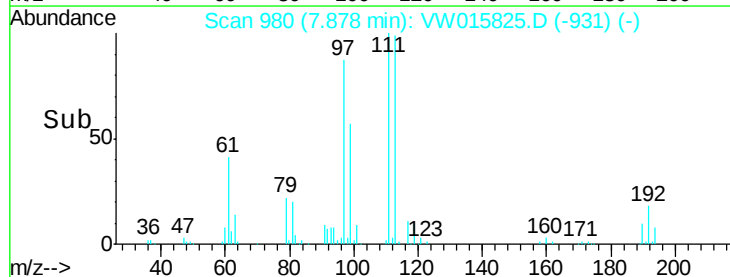
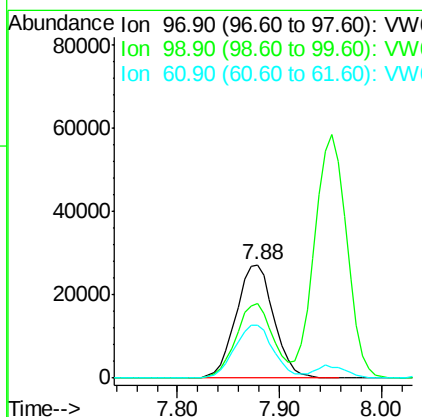
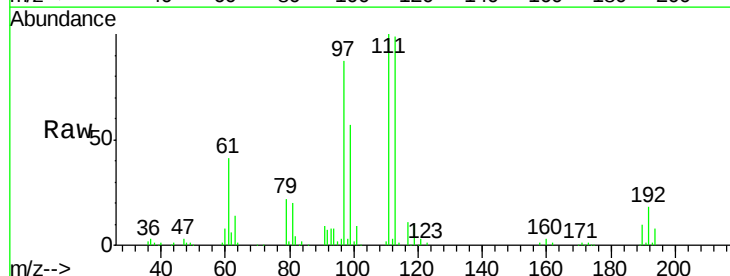
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBS01

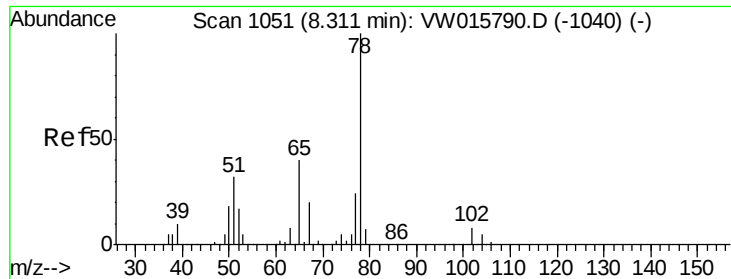
Tot Ion: 56 Resp: 77204  
Ion Ratio Lower Upper  
56 100  
69 38.2 28.9 43.3  
84 84.9 72.2 108.4



#32  
1,1,1-Trichloroethane  
Concen: 20.778 ug/l  
RT: 7.88 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 97 Resp: 70309  
Ion Ratio Lower Upper  
97 100  
99 63.7 51.0 76.4  
61 47.6 38.6 57.8





#33

1,2-Dichloroethane-d4

Concen: 46.333 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

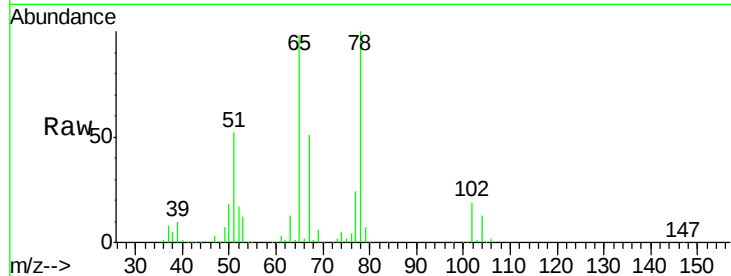
VW0709SBSD01

Tot Ion: 65 Resp: 99433

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

50000

40000

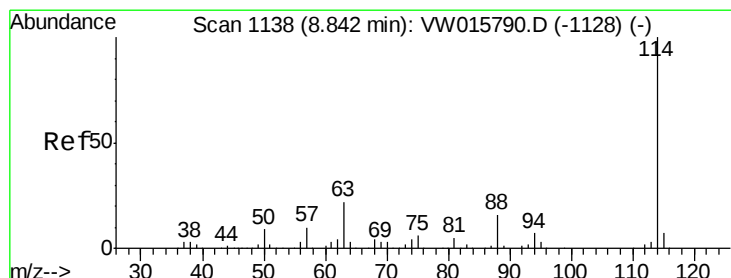
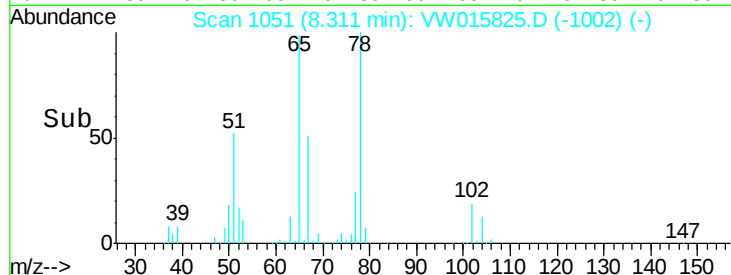
30000

20000

10000

0

Time--> 8.20 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

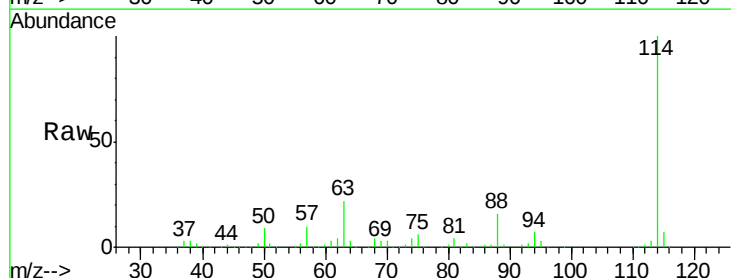
Tgt Ion: 114 Resp: 332210

Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.4

88 16.0 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.85

200000

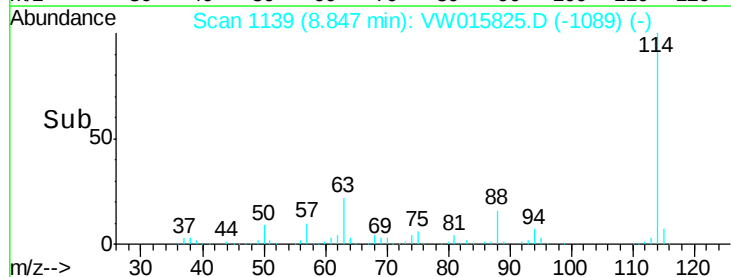
150000

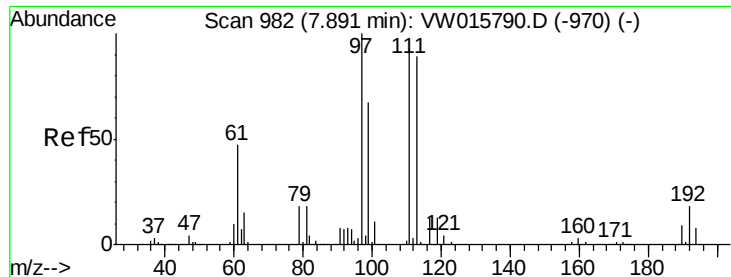
100000

50000

0

Time--> 8.80 8.90





#35

Dibromofluoromethane

Concen: 45.665 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

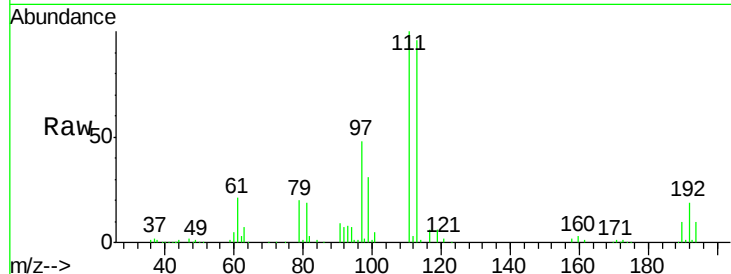
Tot Ion:113 Resp: 88506

Ion Ratio Lower Upper

113 100

111 102.8 82.8 124.2

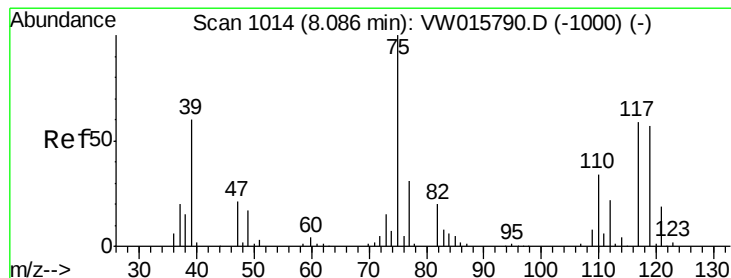
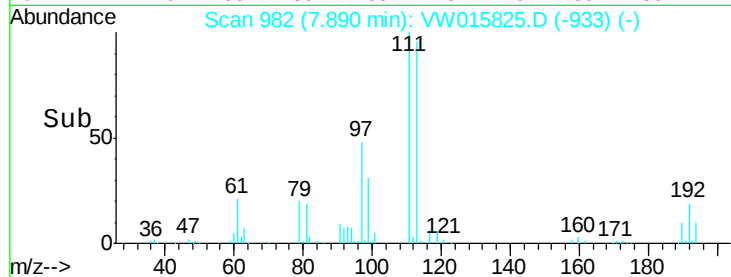
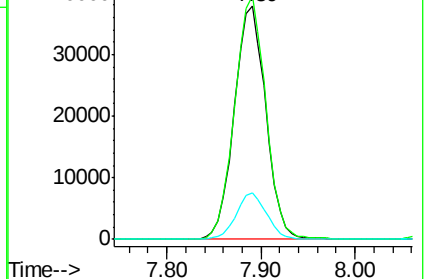
192 19.2 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 20.747 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

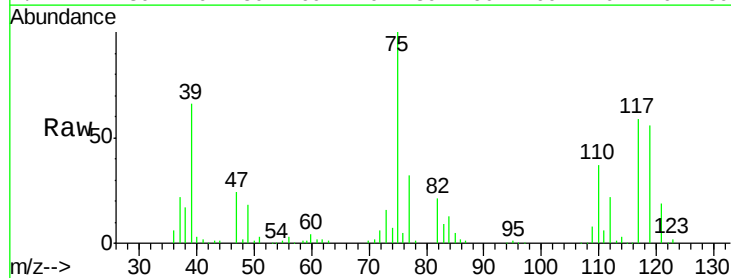
Tgt Ion: 75 Resp: 67943

Ion Ratio Lower Upper

75 100

110 33.1 16.8 50.3

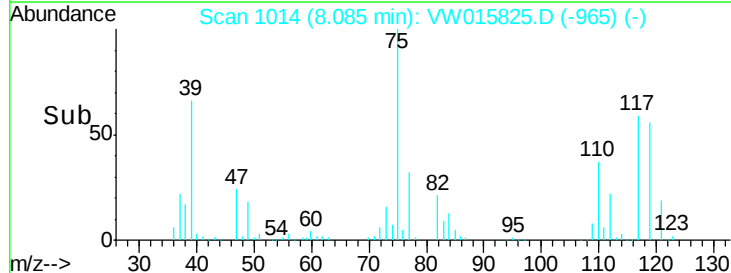
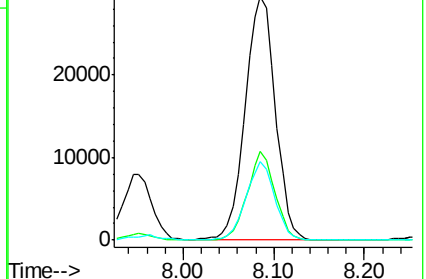
77 30.8 24.7 37.1

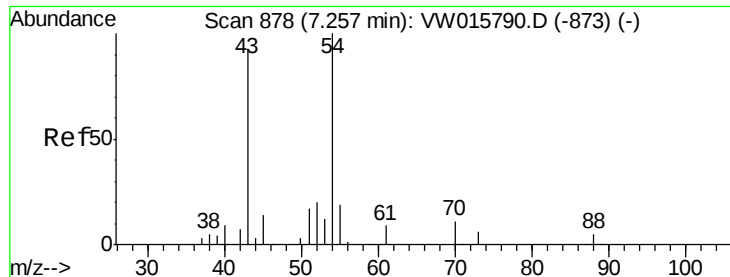


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

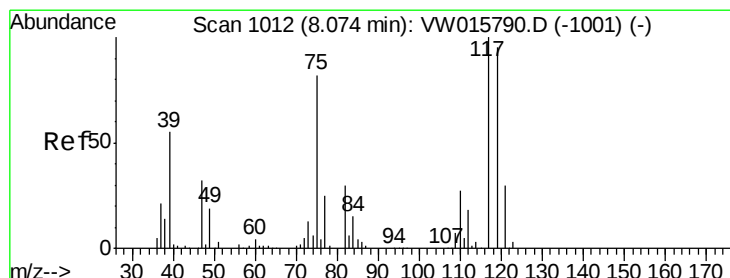
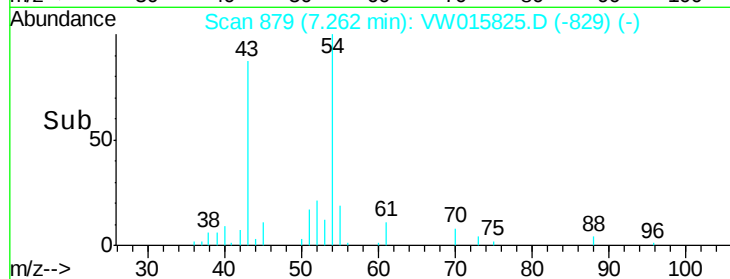
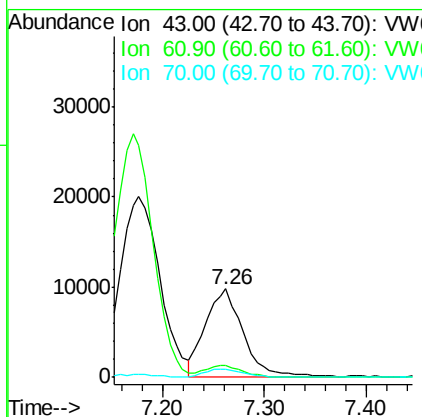
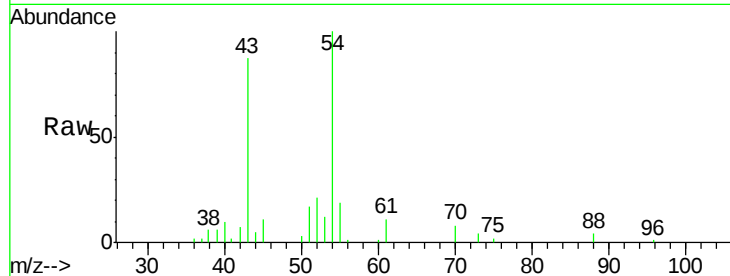




#37  
Ethyl Acetate  
Concen: 19.555 ug/l  
RT: 7.26 min Scan# 879  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

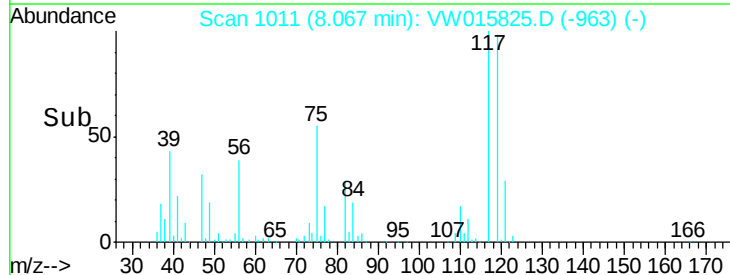
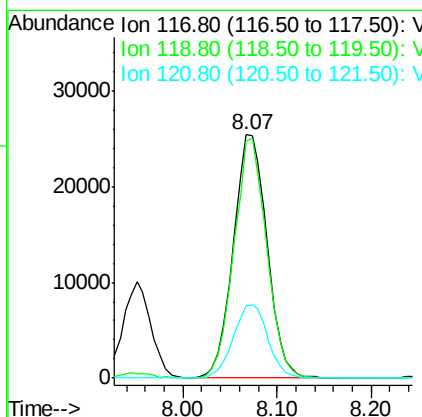
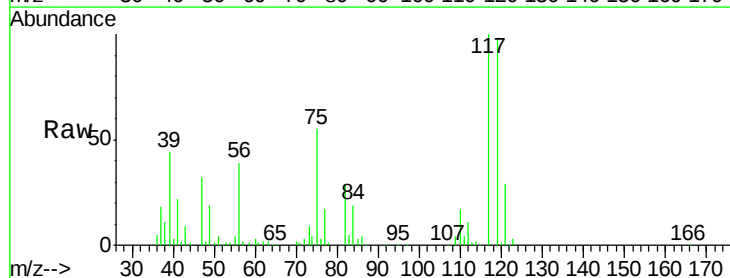
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0709SBS01

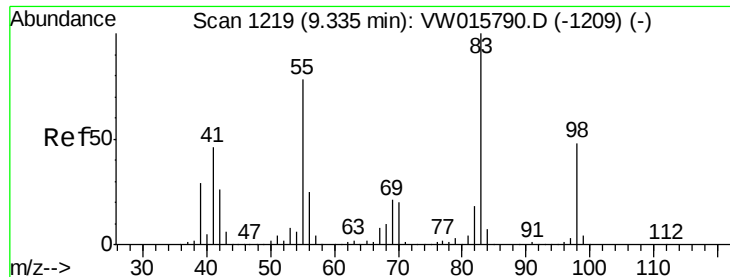
Tot Ion: 43 Resp: 24883  
Ion Ratio Lower Upper  
43 100  
61 12.9 10.4 15.6  
70 10.2 8.4 12.6



#38  
Carbon Tetrachloride  
Concen: 20.089 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 117 Resp: 63659  
Ion Ratio Lower Upper  
117 100  
119 97.6 76.3 114.5  
121 29.4 24.0 36.0

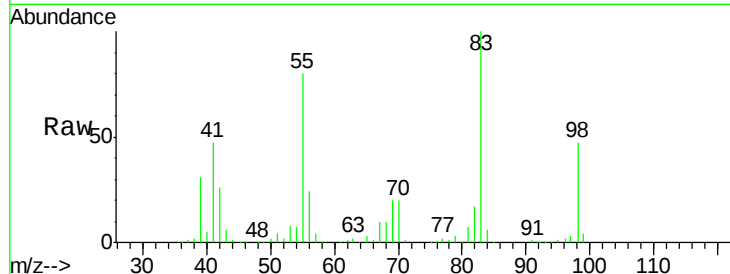




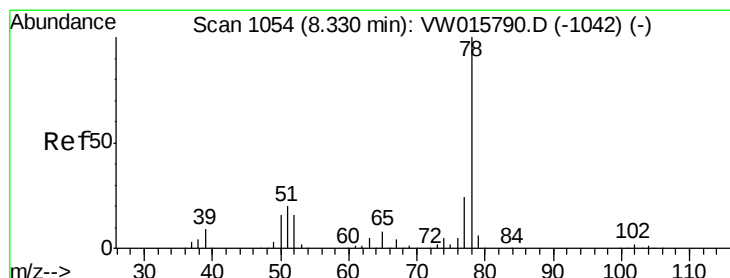
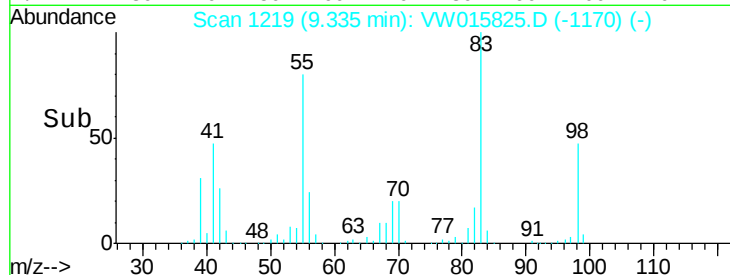
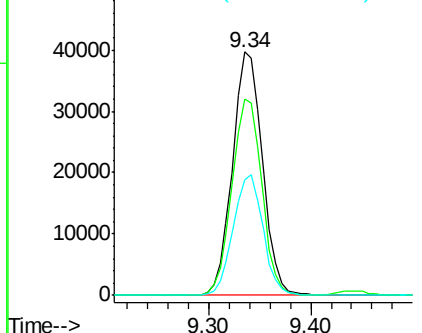
#39  
Methvlcvclohexane  
Concen: 20.870 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

Tot Ion: 83 Resp: 80649  
Ion Ratio Lower Upper  
83 100  
55 80.5 62.6 94.0  
98 47.3 38.6 58.0

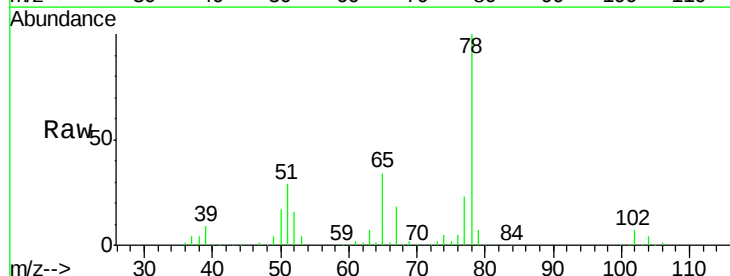


Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 55.00 (54.70 to 55.70): VW  
Ion 98.00 (97.70 to 98.70): VW

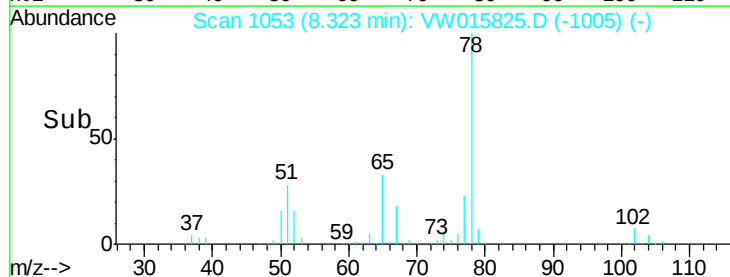
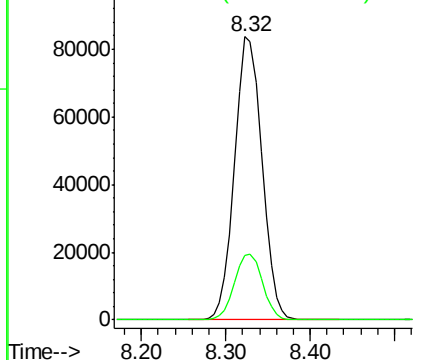


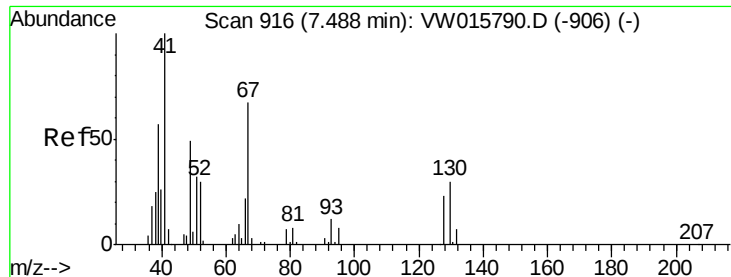
#40  
Benzene  
Concen: 20.579 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 78 Resp: 184607  
Ion Ratio Lower Upper  
78 100  
77 22.7 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VW  
Ion 77.00 (76.70 to 77.70): VW

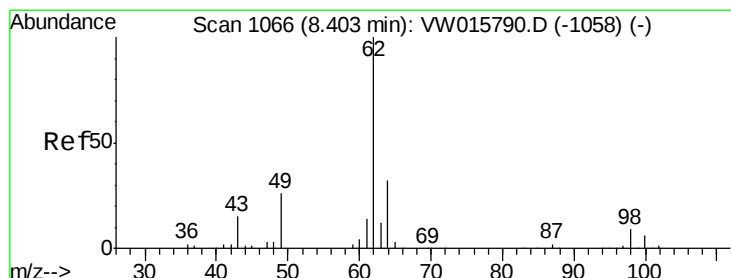
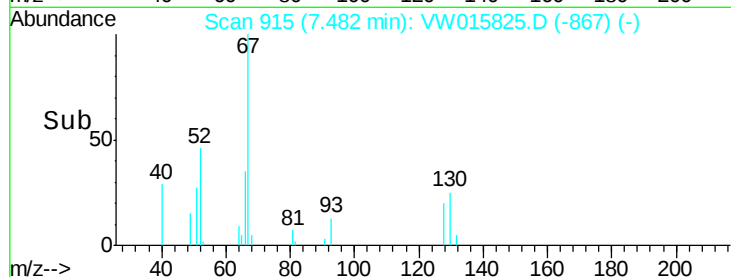
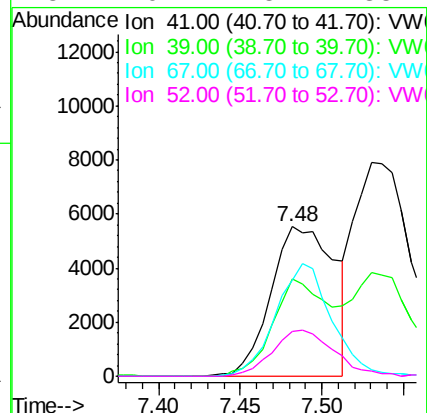
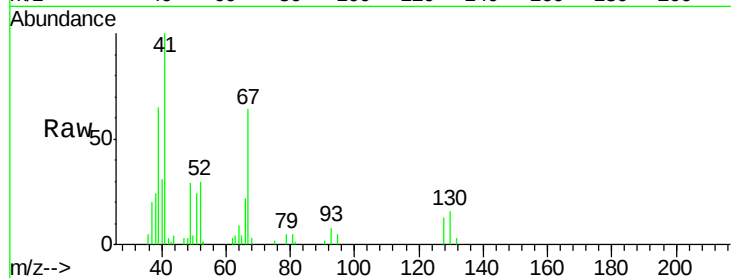




#41  
Methacrylonitrile  
Concen: 20.817 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

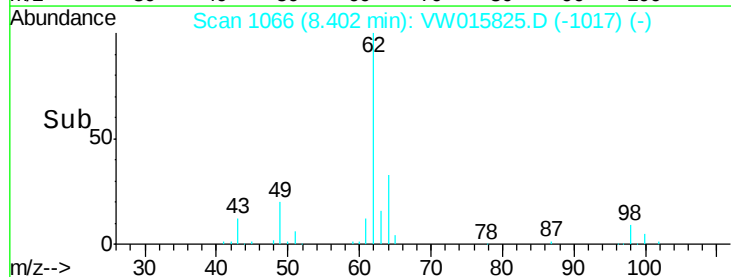
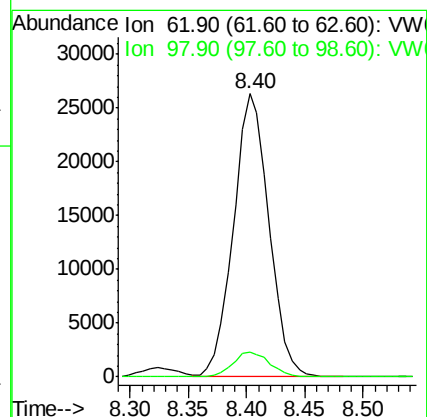
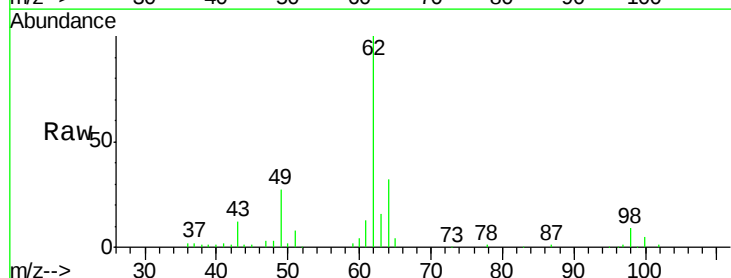
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBS01

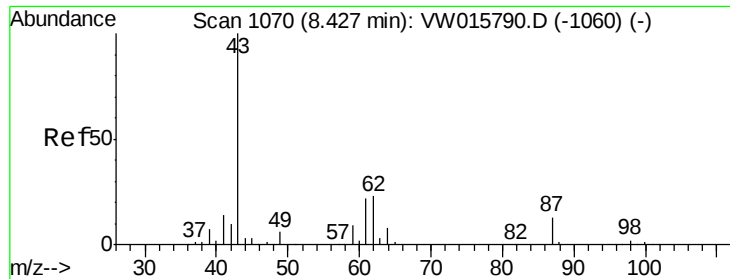
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 15038 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 53.8  | 44.6  | 66.8  |
| 67       | 65.9  | 56.4  | 84.6  |
| 52       | 29.7  | 25.4  | 38.2  |



#42  
1,2-Dichloroethane  
Concen: 20.023 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 55902 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.1   | 0.0   | 17.2  |





#43

Isopropyl Acetate

Concen: 19.683 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

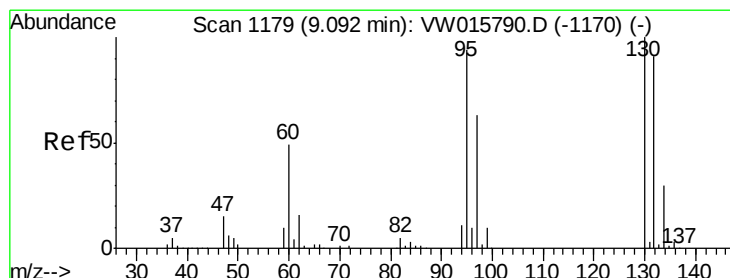
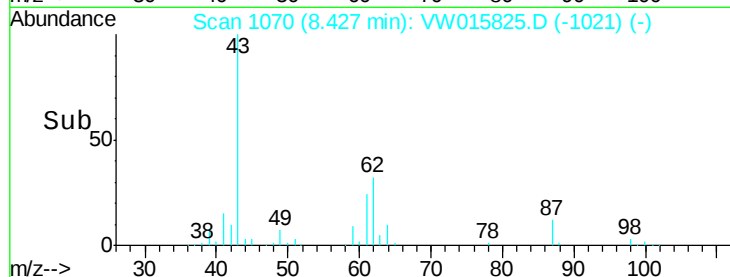
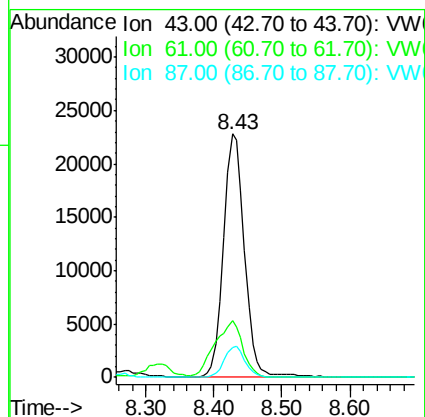
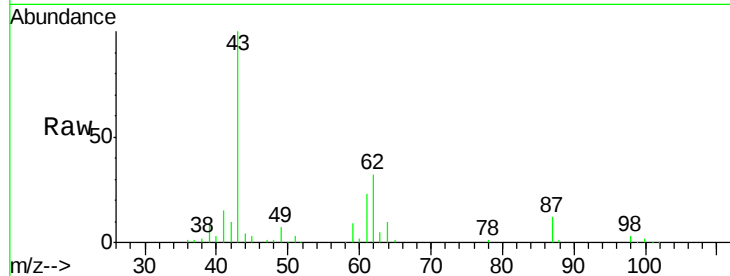
Tot Ion: 43 Resp: 48887

Ion Ratio Lower Upper

43 100

61 30.7 24.8 37.2

87 12.5 10.4 15.6



#44

Trichloroethene

Concen: 20.251 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW015825.D

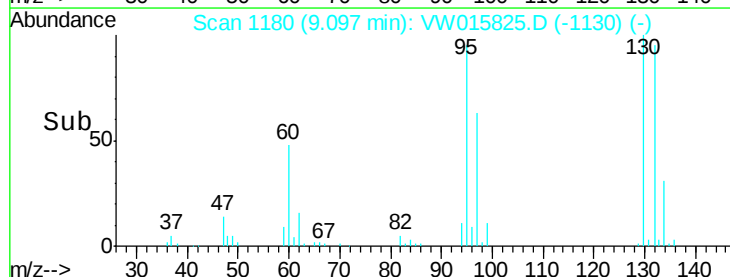
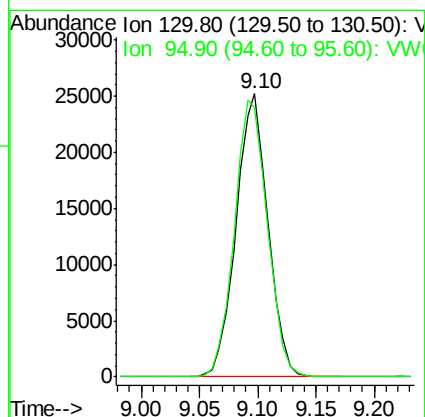
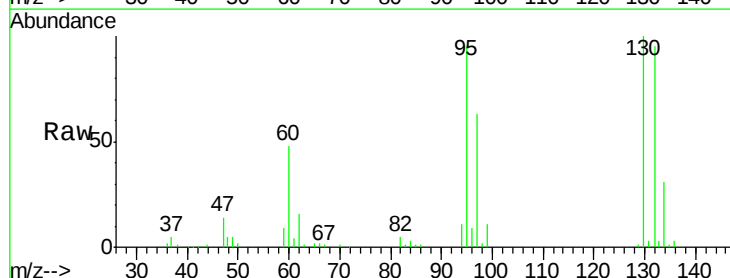
Acq: 09 Jul 2020 13:42

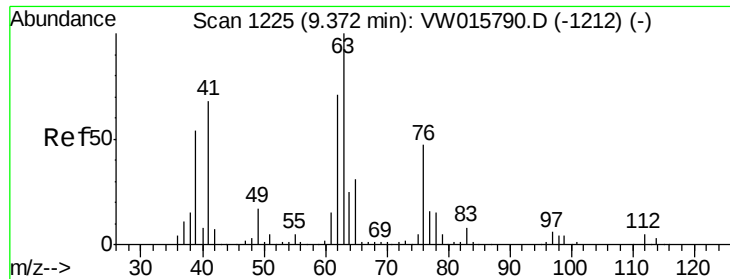
Tgt Ion: 130 Resp: 48050

Ion Ratio Lower Upper

130 100

95 94.9 0.0 188.6

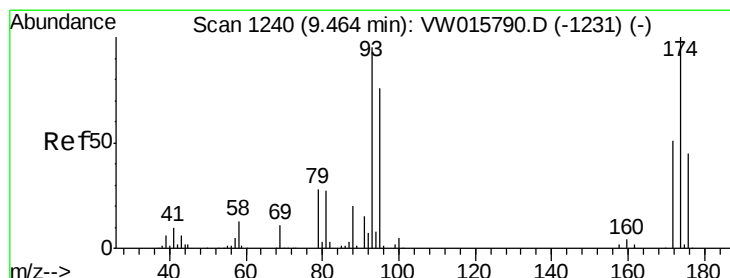
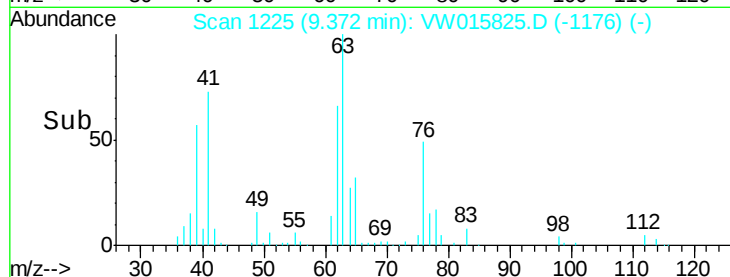
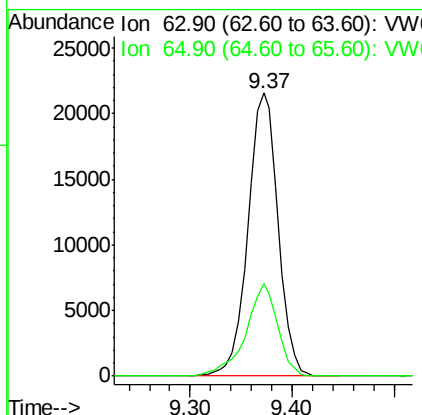
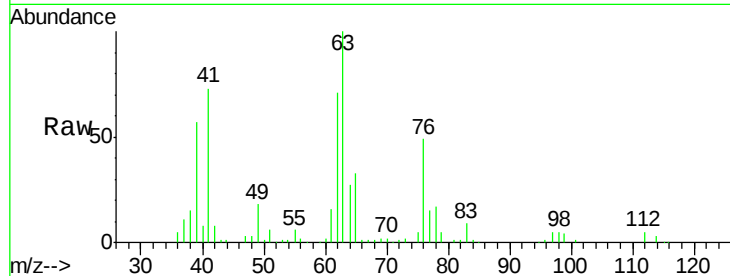




#45  
 1,2-Dichloropropane  
 Concen: 20.129 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

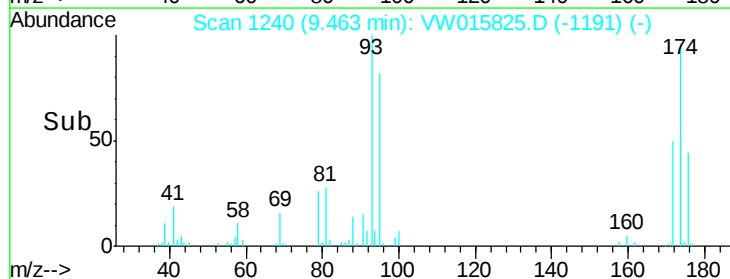
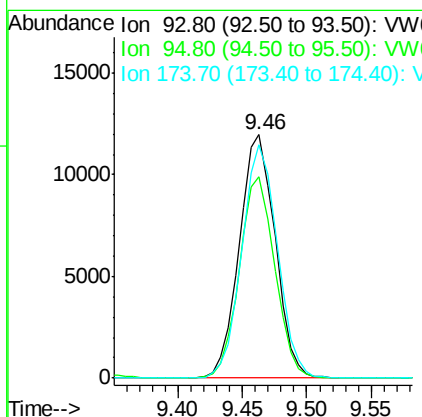
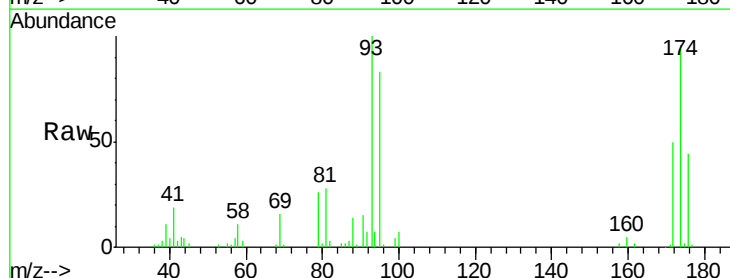
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBS01

Tot Ion: 63 Resp: 44383  
 Ion Ratio Lower Upper  
 63 100  
 65 32.8 24.5 36.7



#46  
 Dibromomethane  
 Concen: 20.320 ug/l  
 RT: 9.46 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion: 93 Resp: 23067  
 Ion Ratio Lower Upper  
 93 100  
 95 81.5 66.0 99.0  
 174 95.1 78.7 118.1





#47

Bromodichloromethane

Concen: 20.031 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

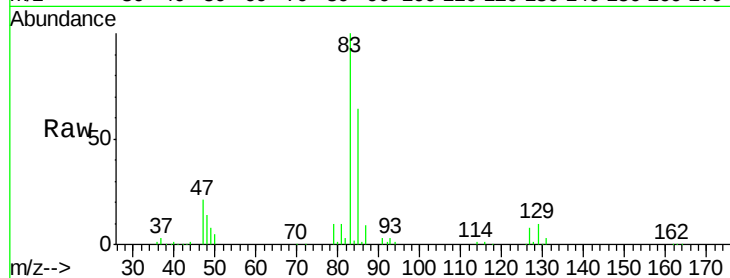
Tot Ion: 83 Resp: 58815

Ion Ratio Lower Upper

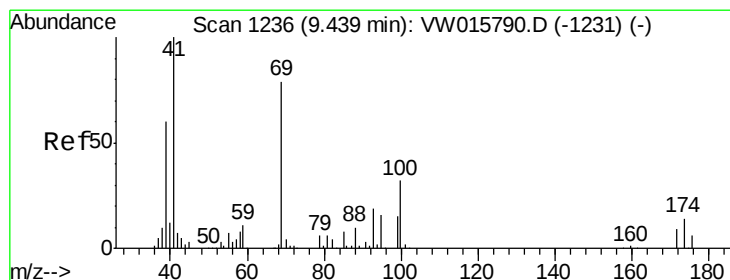
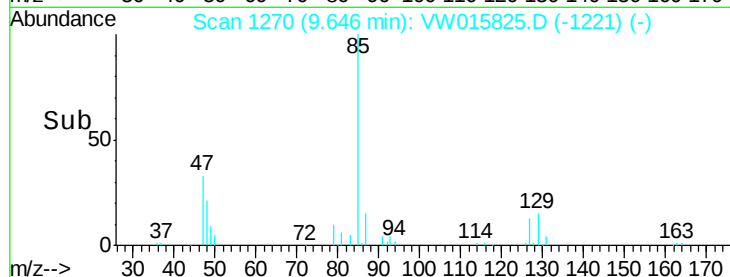
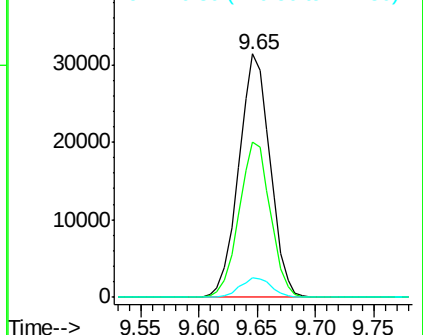
83 100

85 63.7 50.6 76.0

127 8.1 6.2 9.2



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.403 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

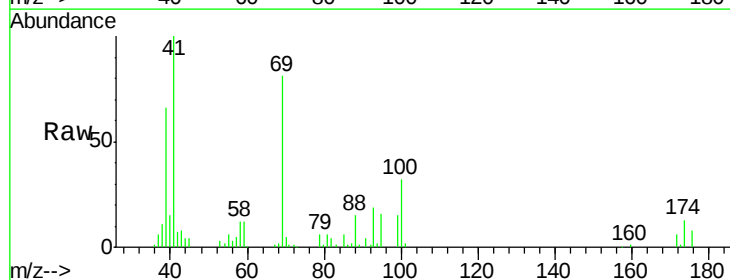
Tgt Ion: 41 Resp: 22087

Ion Ratio Lower Upper

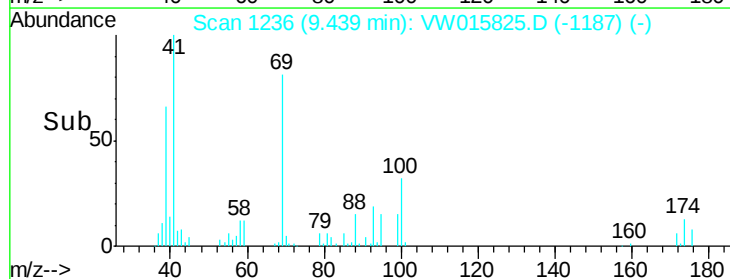
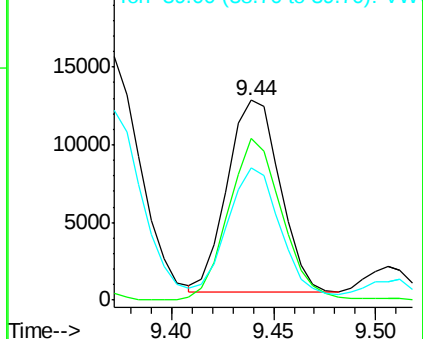
41 100

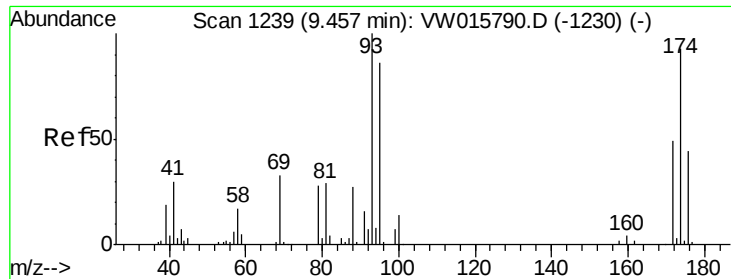
69 86.0 67.1 100.7

39 65.0 49.9 74.9



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

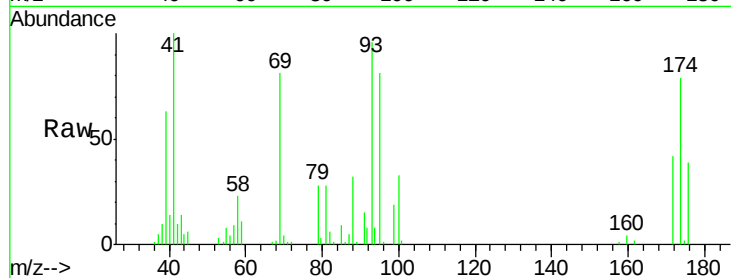




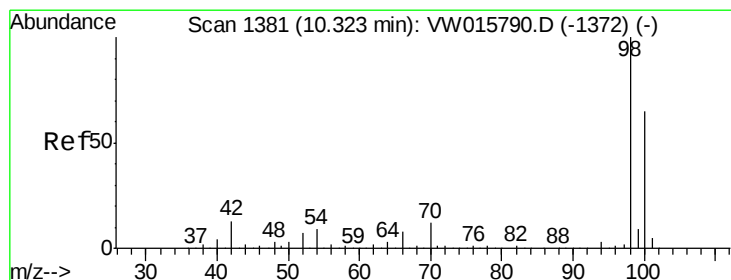
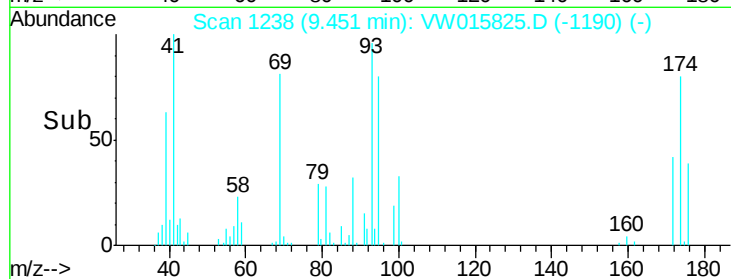
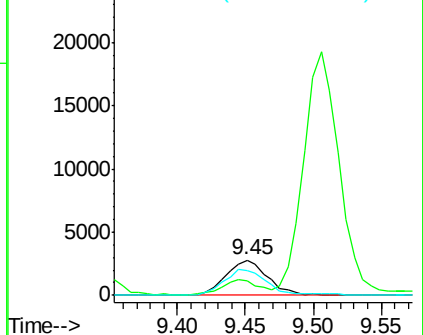
#49  
1,4-Dioxane  
Concen: 416.470 ug/l  
RT: 9.45 min Scan# 1238  
Delta R.T. -0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

Tot Ion: 88 Resp: 5845  
Ion Ratio Lower Upper  
88 100  
43 38.0 28.1 42.1  
58 74.6 59.3 88.9

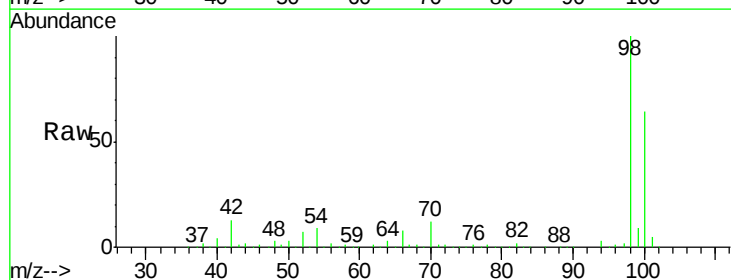


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

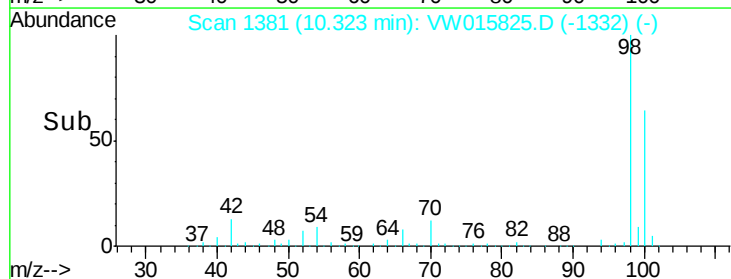
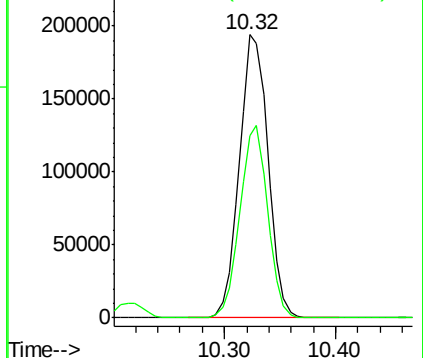


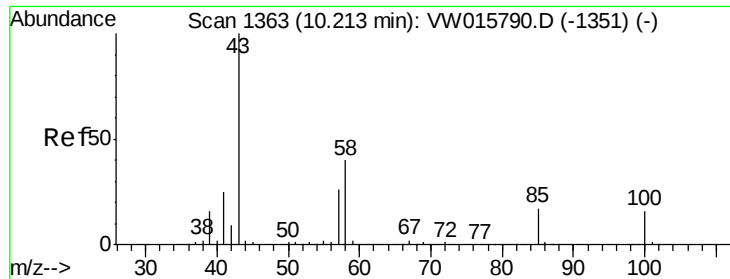
#50  
Toluene-d8  
Concen: 46.503 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 98 Resp: 346204  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.6 79.0



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





#51

4-Methyl-2-Pentanone

Concen: 98.412 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

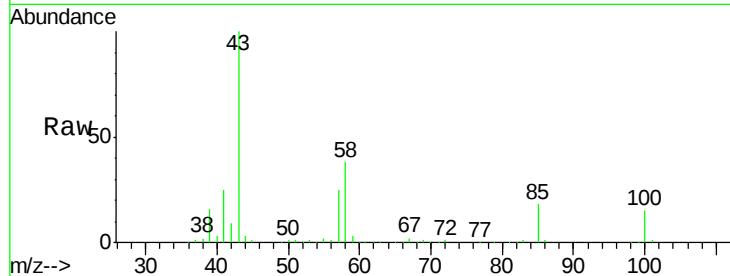
VW0709SBSD01

Tot Ion: 43 Resp: 119277

Ion Ratio Lower Upper

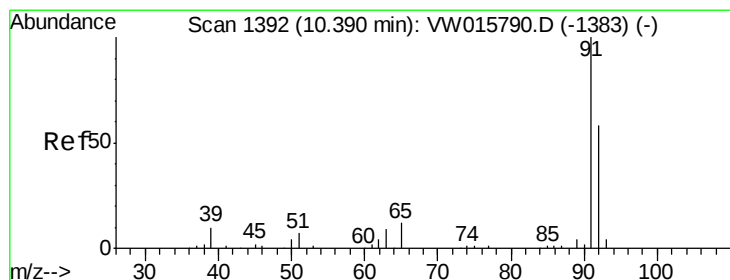
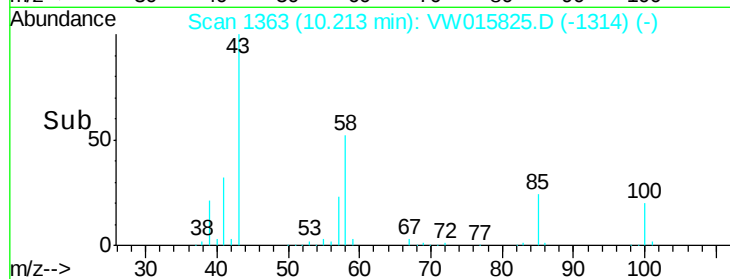
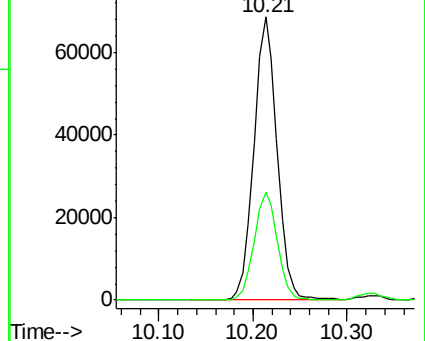
43 100

58 38.4 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 20.594 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015825.D

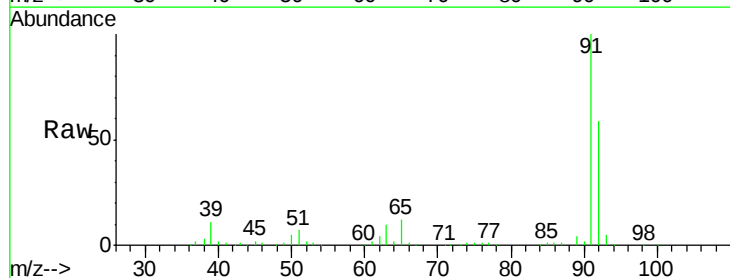
Acq: 09 Jul 2020 13:42

Tgt Ion: 92 Resp: 118884

Ion Ratio Lower Upper

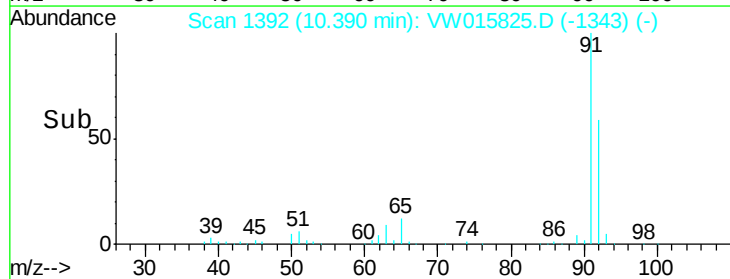
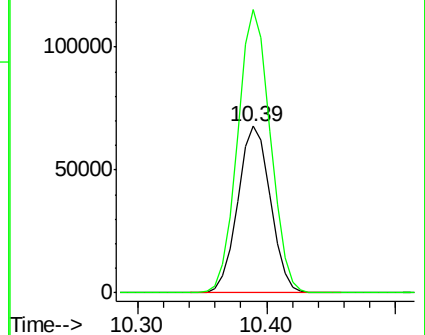
92 100

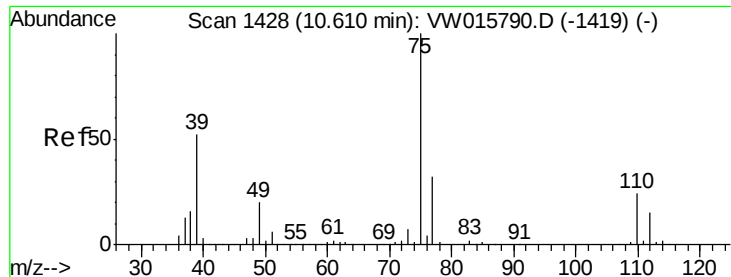
91 170.6 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

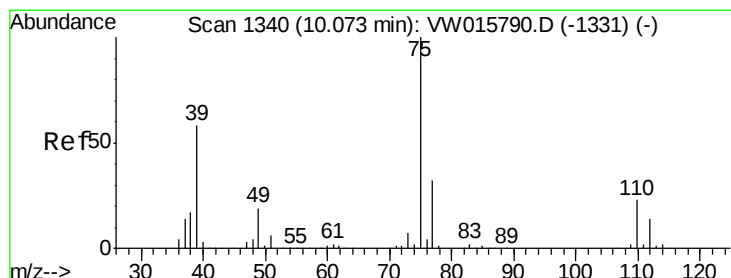
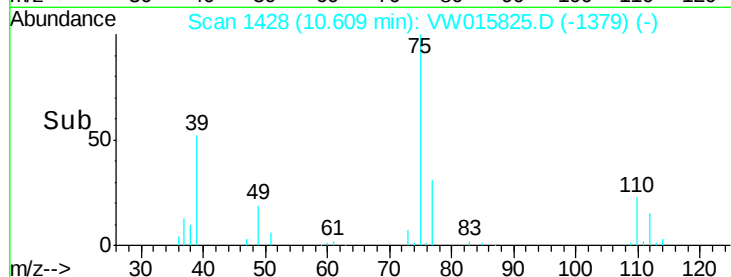
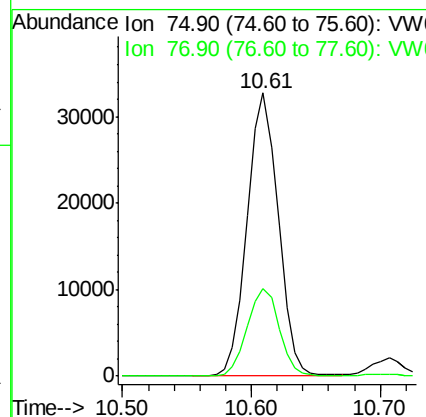
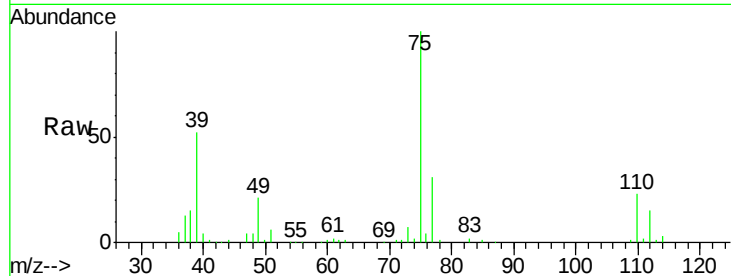




#53  
 t-1,3-Dichloropropene  
 Concen: 19.404 ug/l  
 RT: 10.61 min Scan# 1428  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

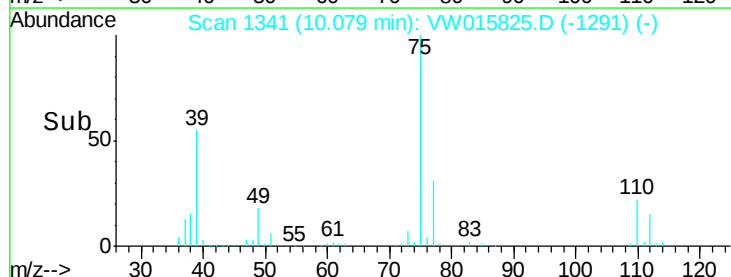
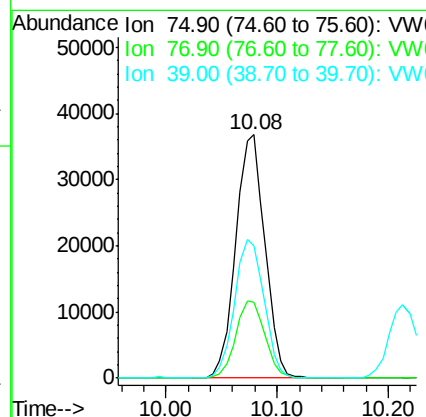
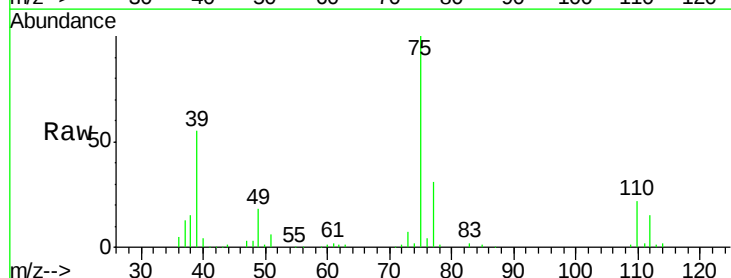
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

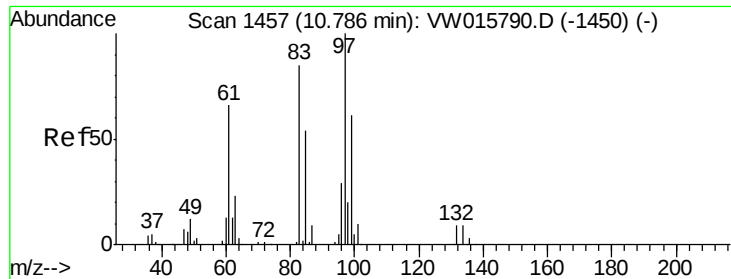
Tot Ion: 75 Resp: 54667  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 25.4 38.0



#54  
 cis-1,3-Dichloropropene  
 Concen: 19.800 ug/l  
 RT: 10.08 min Scan# 1341  
 Delta R.T. 0.01 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion: 75 Resp: 66726  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 25.2 37.8  
 39 54.5 46.0 69.0

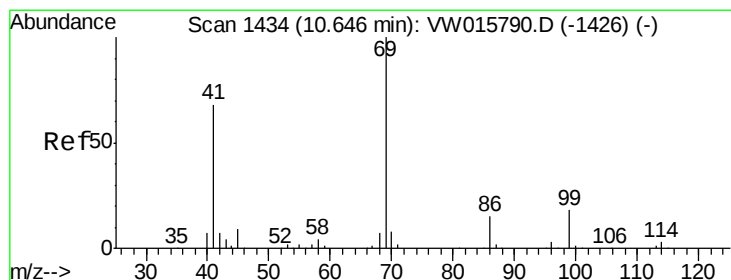
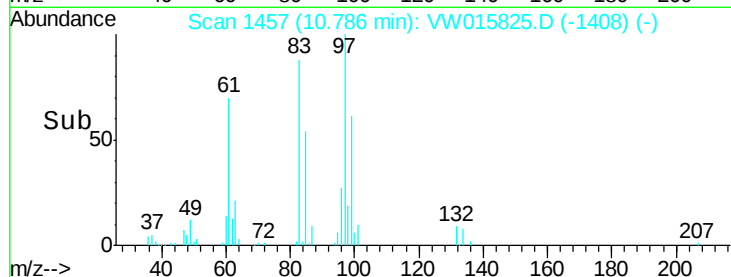
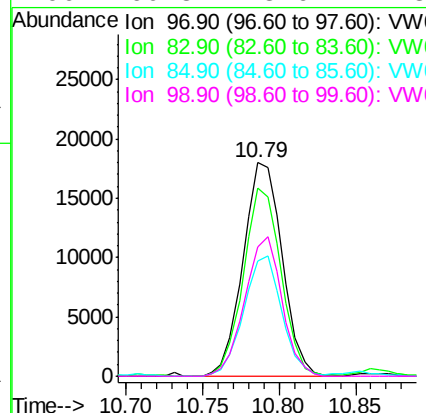
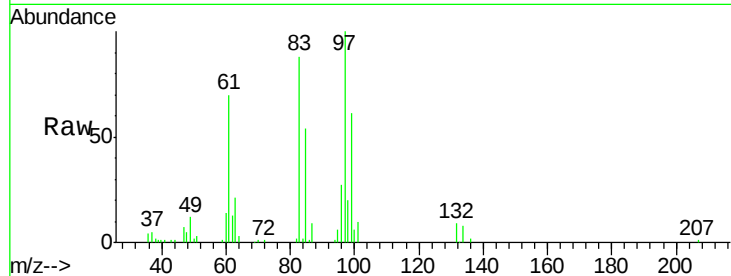




#55  
 1,1,2-Trichloroethane  
 Concen: 20.392 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

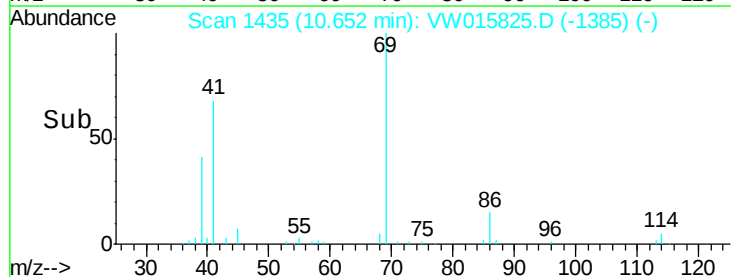
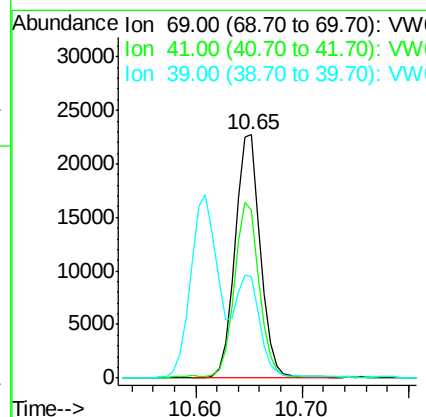
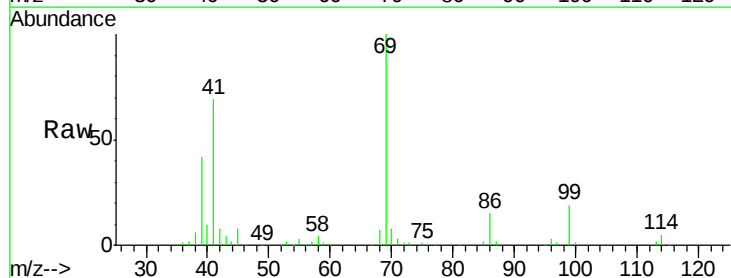
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

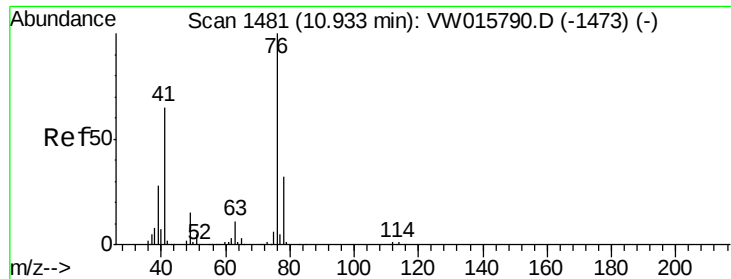
| Tot Ion | 97    | Resp  | 32099 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 88.2  | 68.2  | 102.4 |
| 85      | 54.1  | 43.4  | 65.0  |
| 99      | 60.8  | 48.6  | 72.8  |



#56  
 Ethyl methacrylate  
 Concen: 19.718 ug/l  
 RT: 10.65 min Scan# 1435  
 Delta R.T. 0.01 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

| Tgt Ion | 69    | Resp  | 38158 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 69      | 100   |       |       |
| 41      | 68.6  | 55.0  | 82.6  |
| 39      | 36.9  | 33.8  | 50.8  |

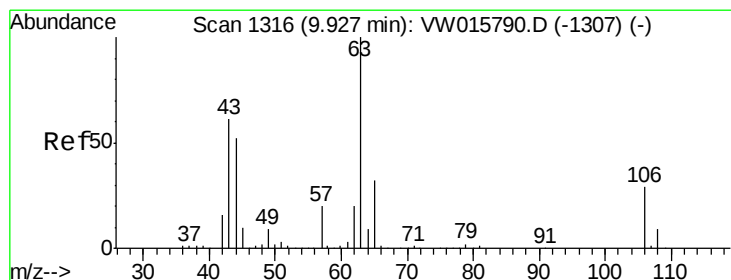
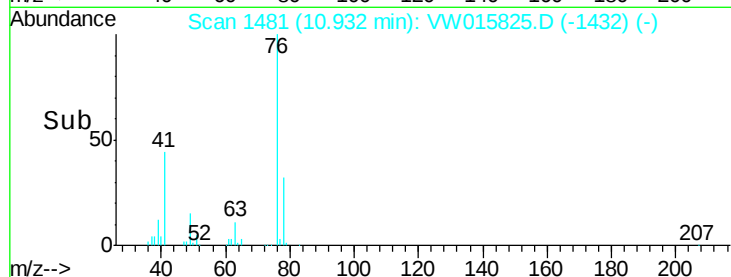
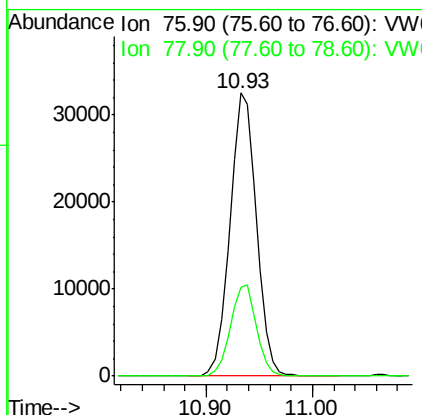
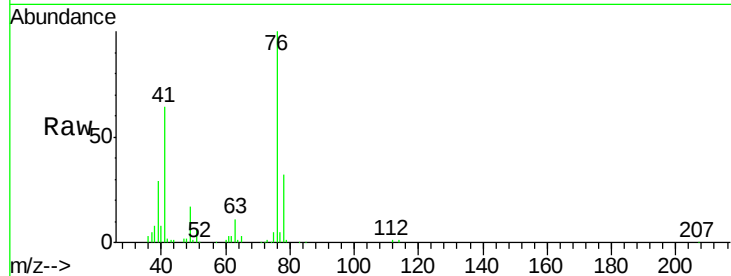




#57  
 1,3-Dichloropropane  
 Concen: 20.321 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

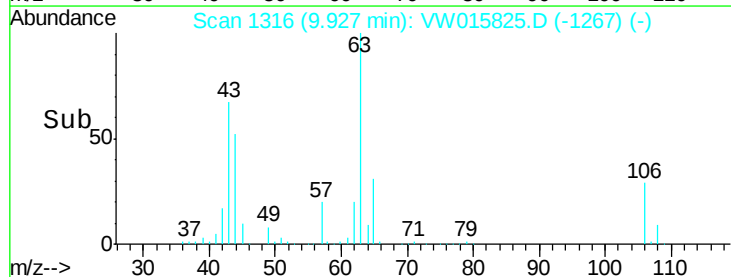
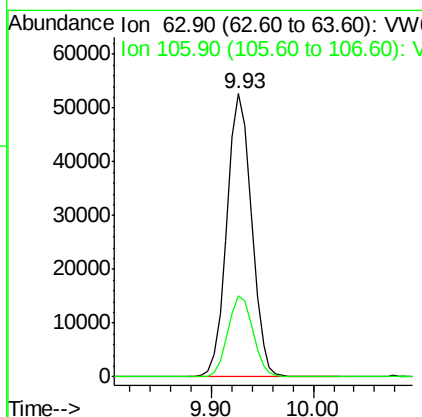
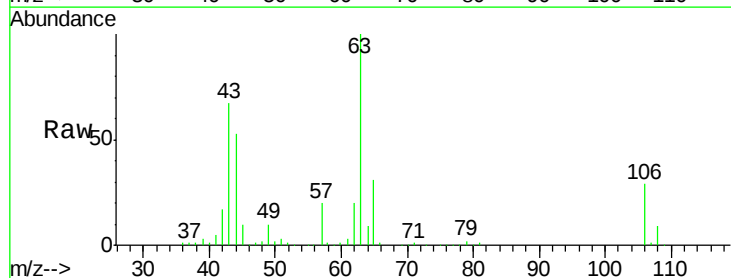
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

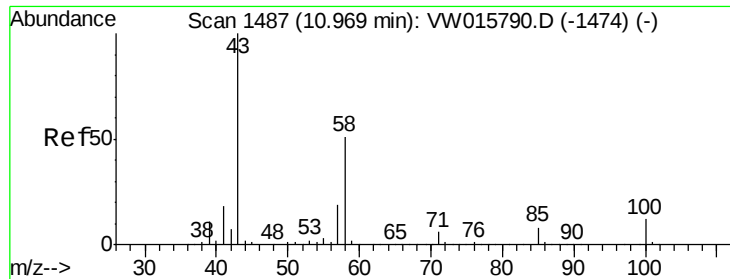
Tot Ion: 76 Resp: 56624  
 Ion Ratio Lower Upper  
 76 100  
 78 31.8 25.7 38.5



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 93.202 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion: 63 Resp: 88131  
 Ion Ratio Lower Upper  
 63 100  
 106 28.9 23.1 34.7

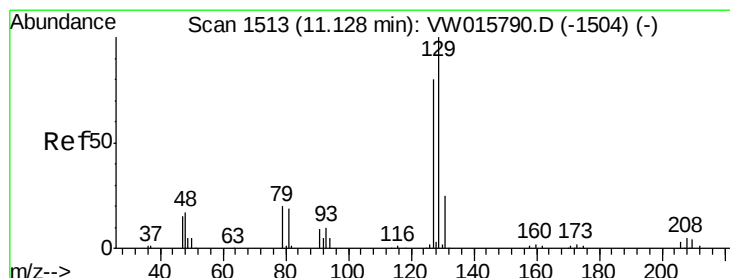
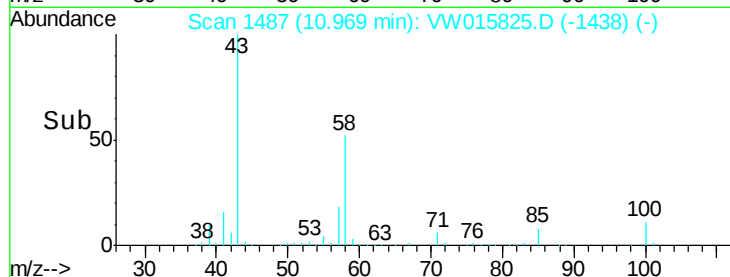
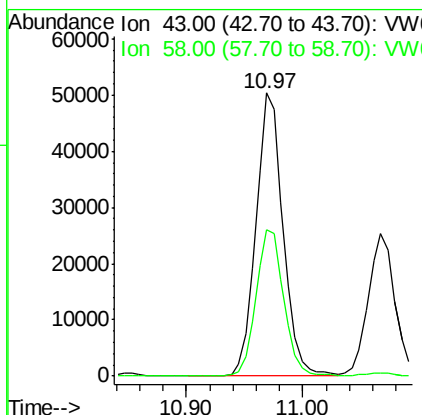
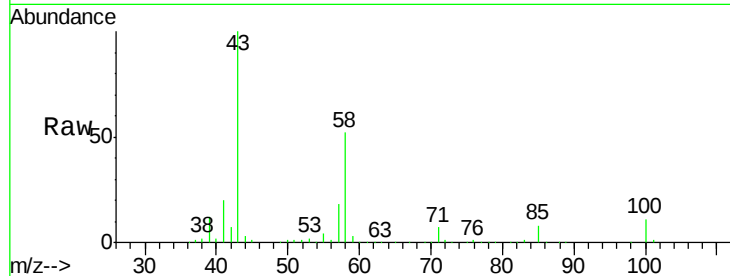




#59  
2-Hexanone  
Concen: 101.268 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

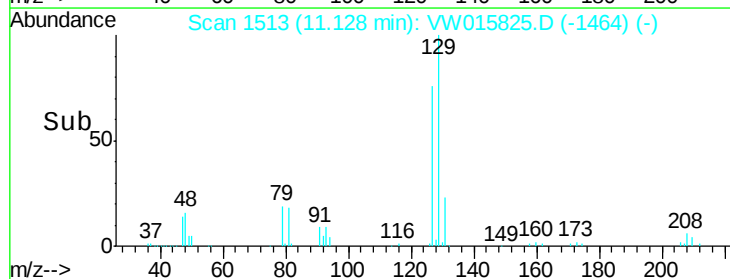
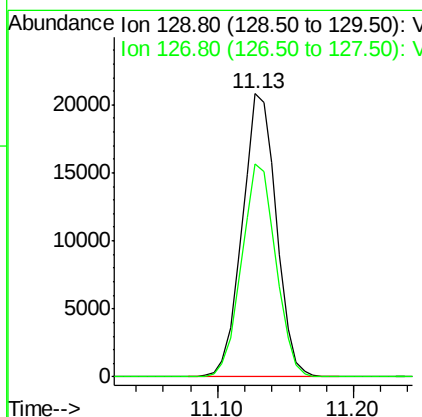
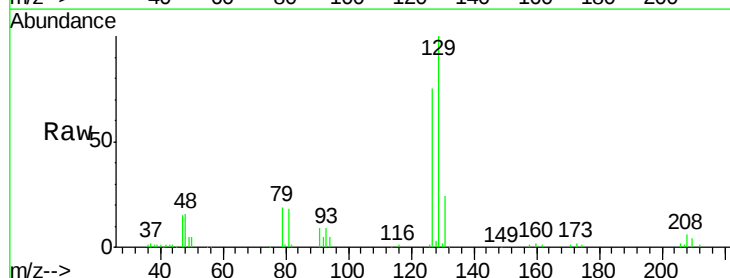
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBS01

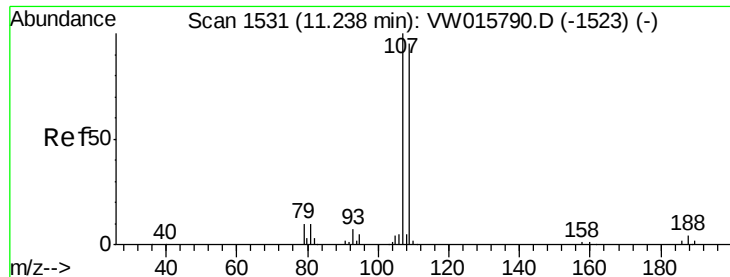
Tot Ion: 43 Resp: 81910  
Ion Ratio Lower Upper  
43 100  
58 52.8 26.2 78.5



#60  
Dibromochloromethane  
Concen: 20.006 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 129 Resp: 36370  
Ion Ratio Lower Upper  
129 100  
127 75.5 39.4 118.1





#61

1,2-Dibromoethane

Concen: 20.087 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

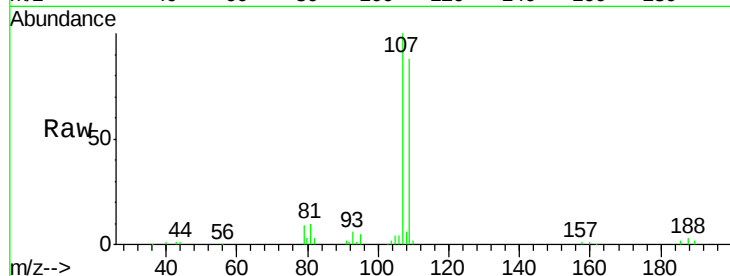
VW0709SBSD01

Tot Ion:107 Resp: 30254

Ion Ratio Lower Upper

107 100

109 92.9 77.0 115.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

20000

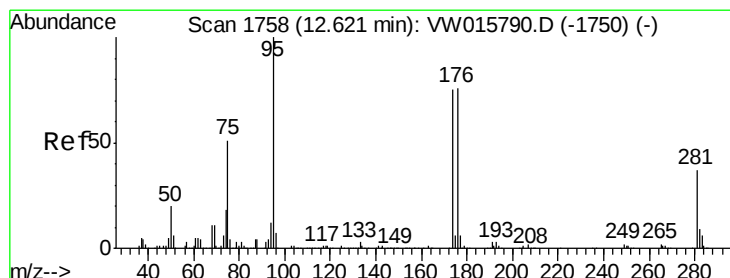
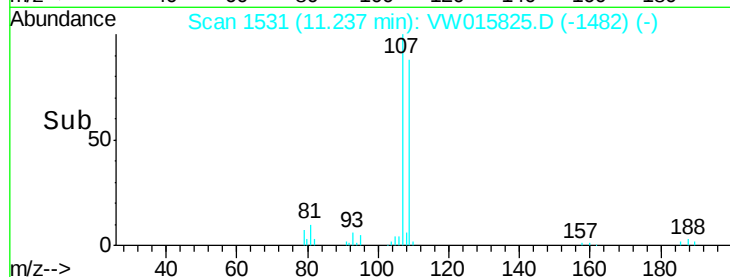
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.438 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

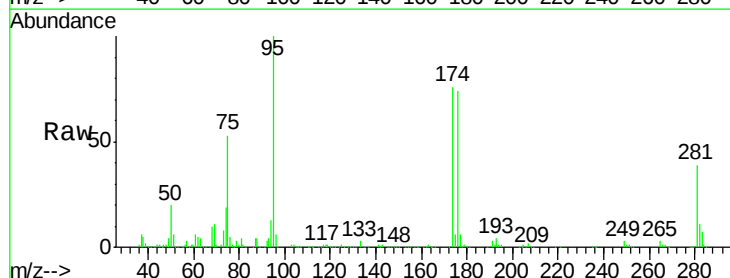
Tgt Ion: 95 Resp: 132324

Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.2

176 73.9 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

100000

80000

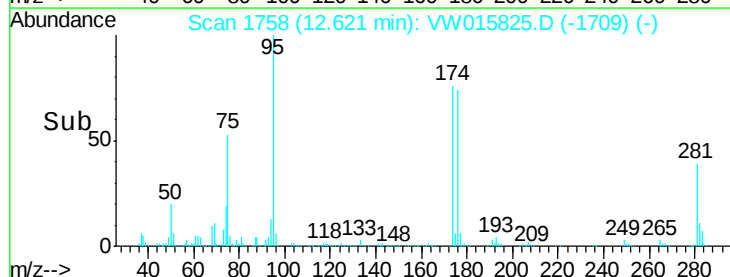
60000

40000

20000

0

Time-->

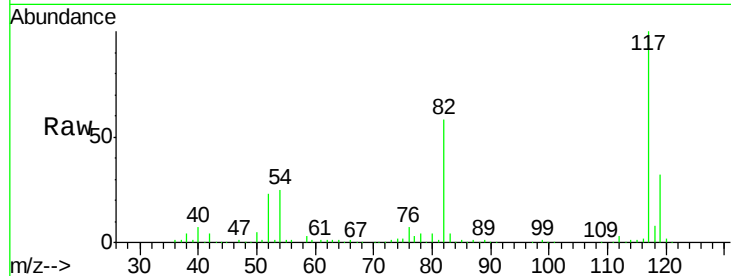




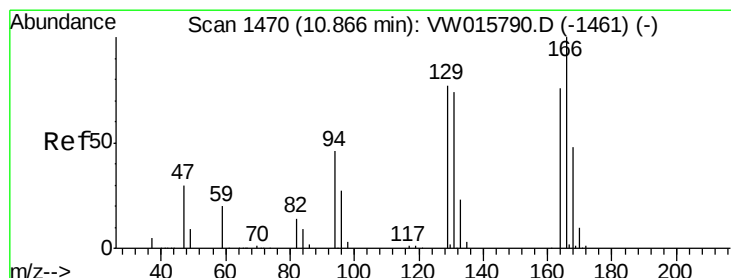
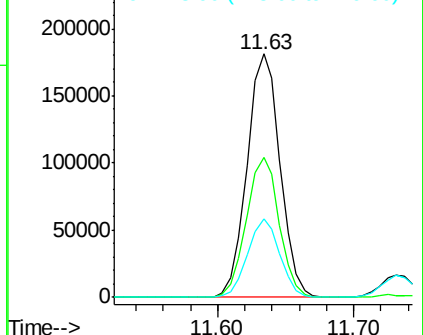
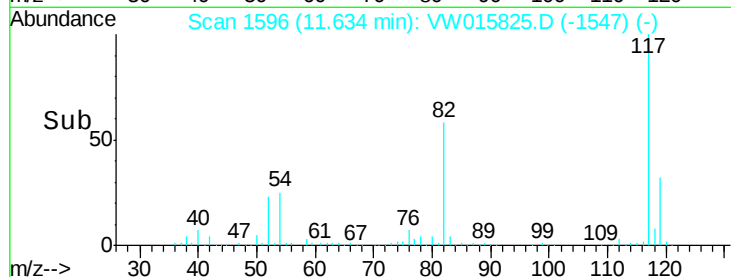
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

Tot Ion:117 Resp: 307757  
Ion Ratio Lower Upper  
117 100  
82 57.7 45.5 68.3  
119 32.2 25.0 37.6

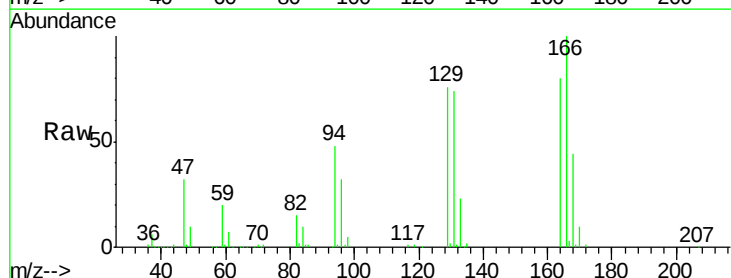


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

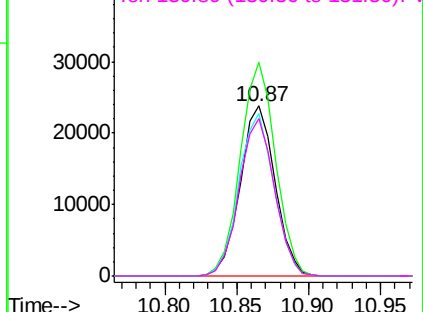
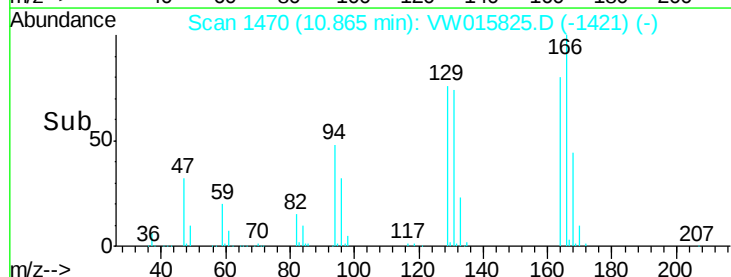


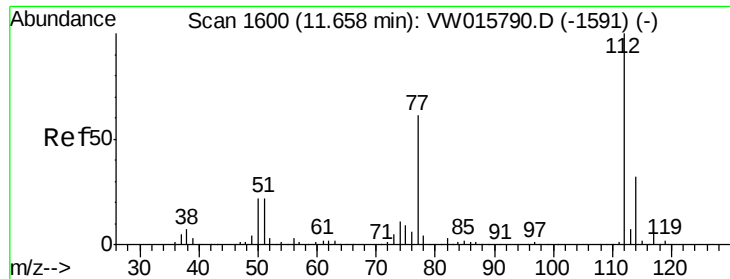
#64  
Tetrachloroethene  
Concen: 20.461 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion:164 Resp: 39850  
Ion Ratio Lower Upper  
164 100  
166 125.7 105.1 157.7  
129 95.7 80.6 121.0  
131 92.4 77.8 116.6



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

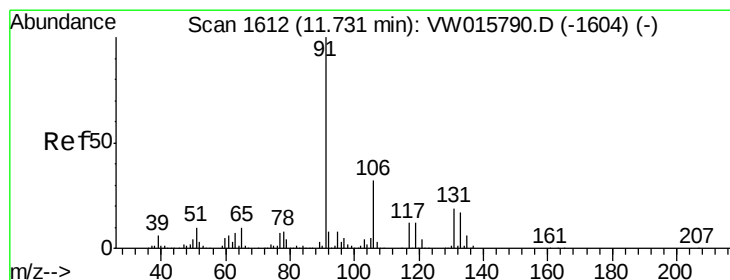
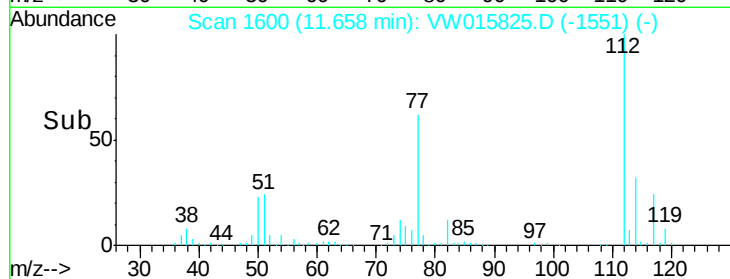
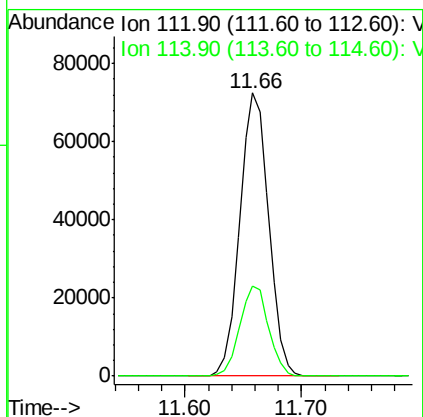
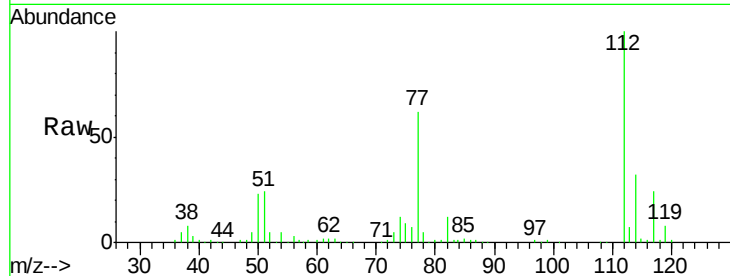




#65  
Chlorobenzene  
Concen: 20.785 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

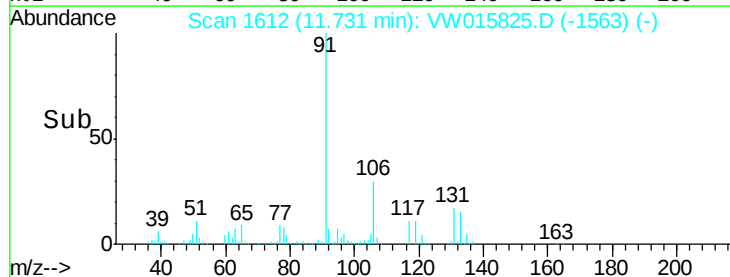
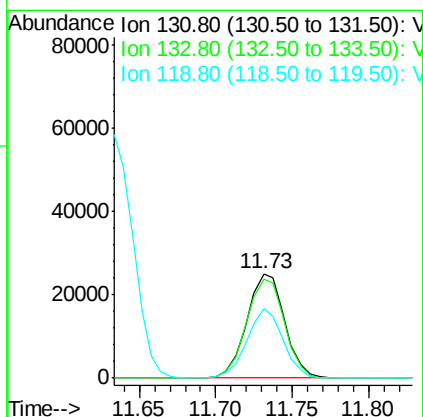
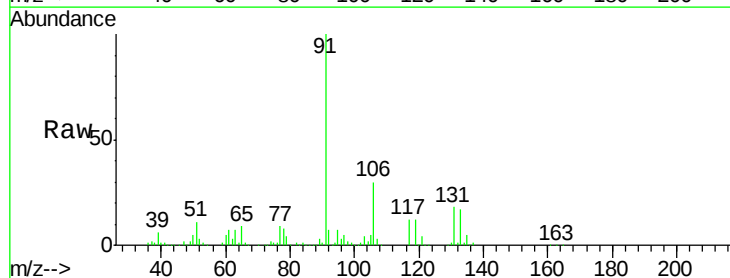
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

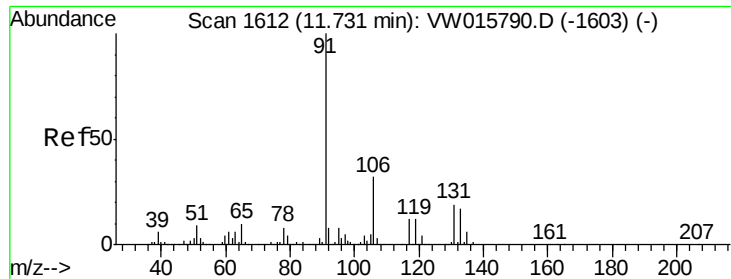
Tot Ion:112 Resp: 125098  
Ion Ratio Lower Upper  
112 100  
114 31.9 25.9 38.9



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.171 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion:131 Resp: 42961  
Ion Ratio Lower Upper  
131 100  
133 95.8 47.0 141.2  
119 63.8 32.3 96.8

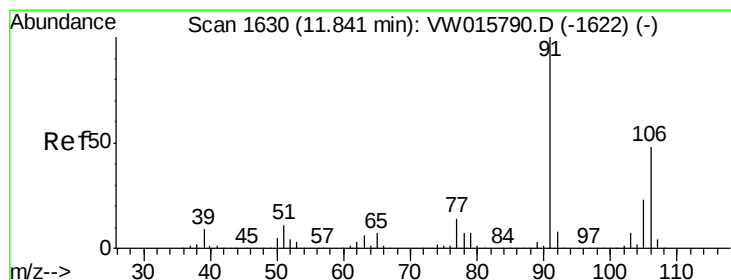
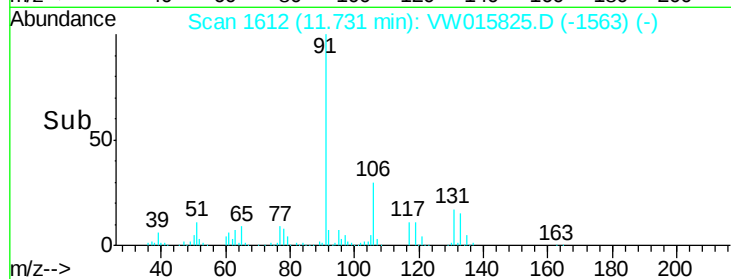
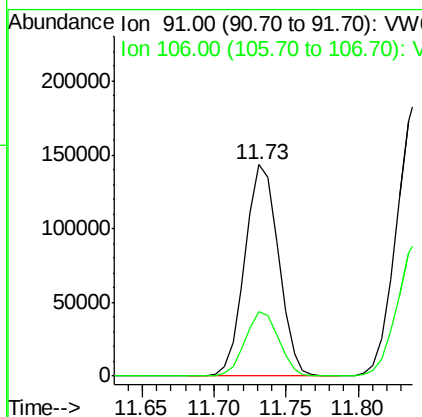
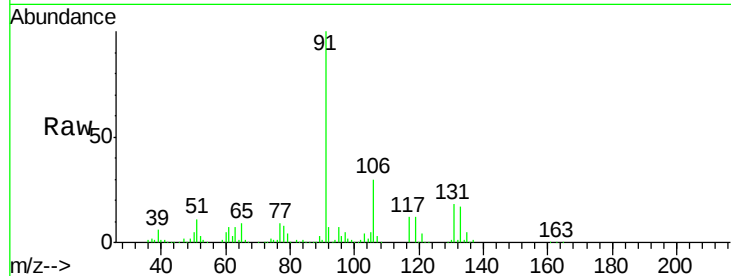




#67  
Ethyl Benzene  
Concen: 20.785 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

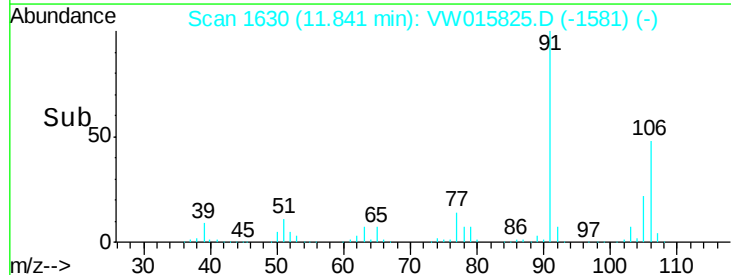
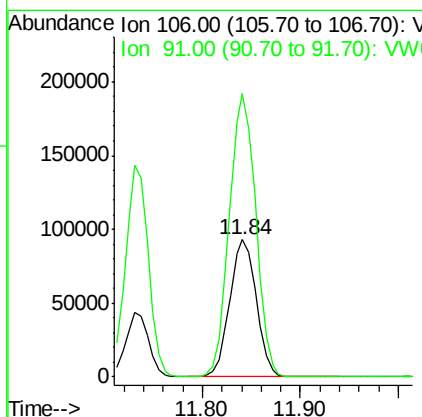
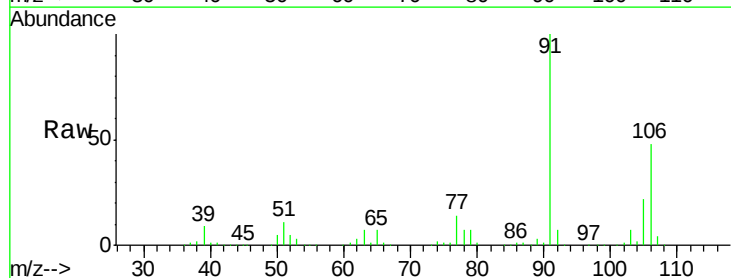
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

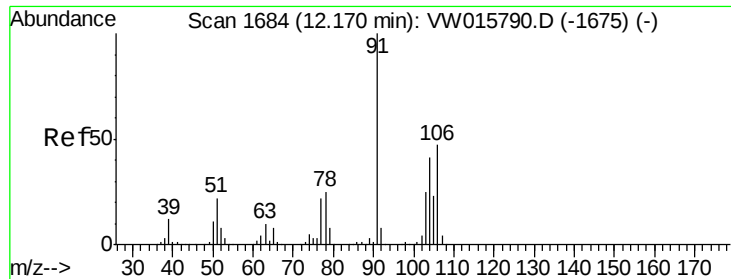
Tot Ion: 91 Resp: 231657  
Ion Ratio Lower Upper  
91 100  
106 30.5 25.8 38.8



#68  
m/p-Xylenes  
Concen: 41.764 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 106 Resp: 174857  
Ion Ratio Lower Upper  
106 100  
91 205.8 164.1 246.1

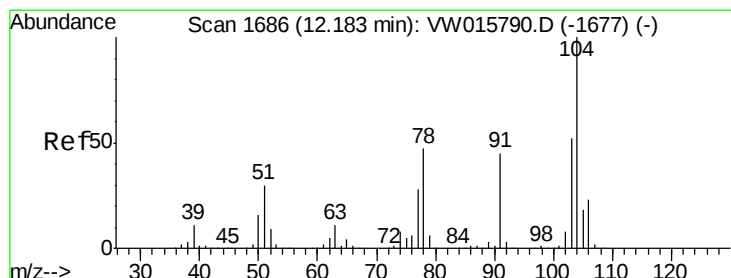
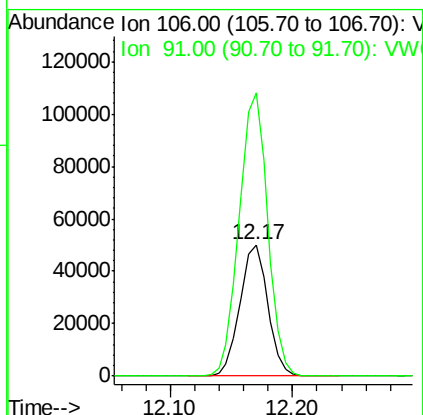
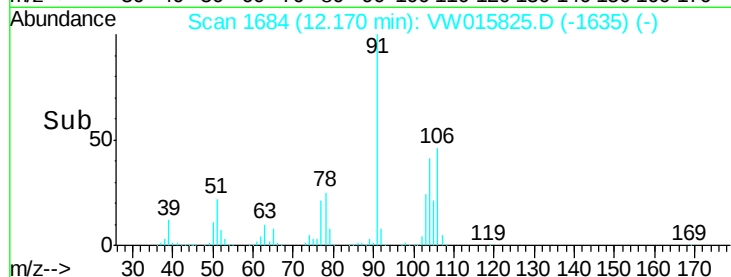
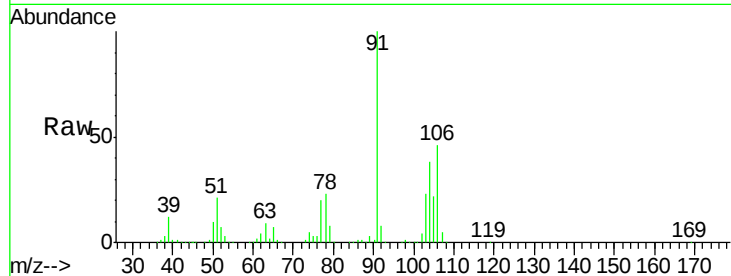




#69  
o-Xylene  
Concen: 20.828 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

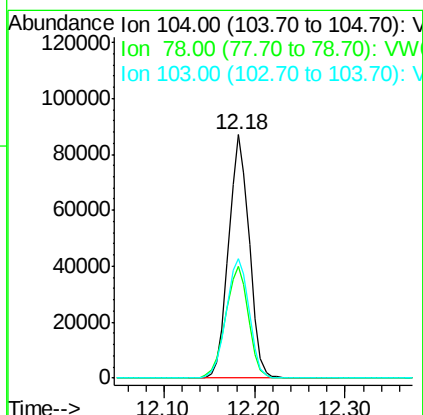
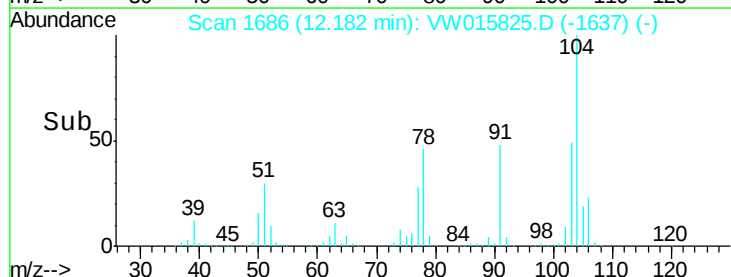
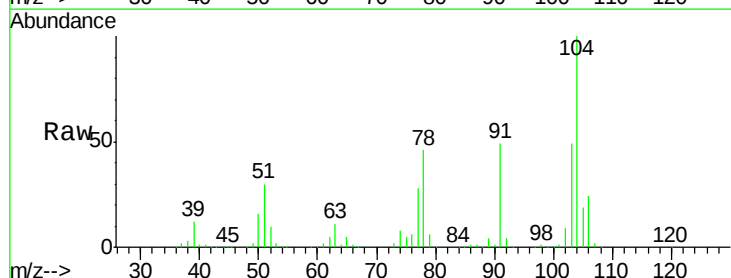
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

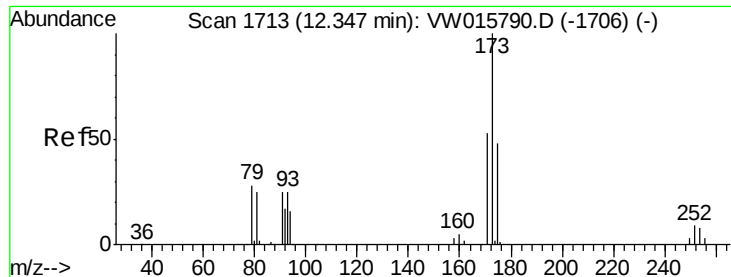
Tot Ion:106 Resp: 79600  
Ion Ratio Lower Upper  
106 100  
91 219.7 108.5 325.3



#70  
Styrene  
Concen: 20.928 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion:104 Resp: 137620  
Ion Ratio Lower Upper  
104 100  
78 51.0 41.0 61.4  
103 54.4 43.8 65.8





#71

Bromoform

Concen: 19.484 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

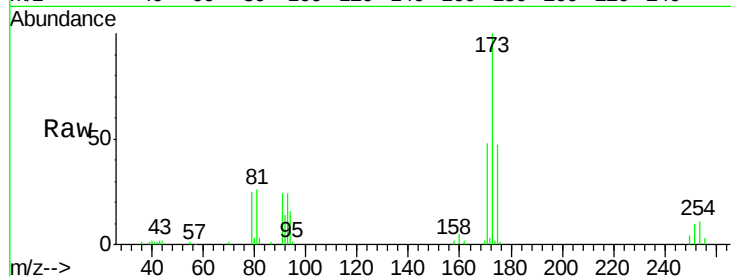
Tot Ion:173 Resp: 18941

Ion Ratio Lower Upper

173 100

175 47.9 23.5 70.5

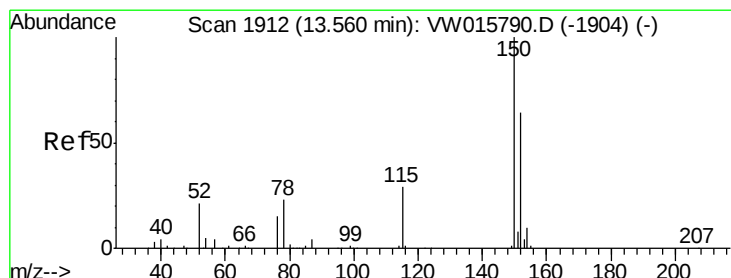
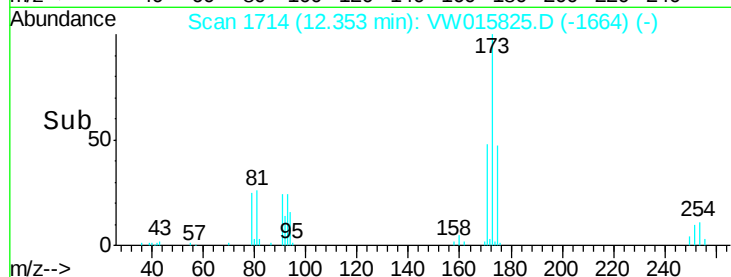
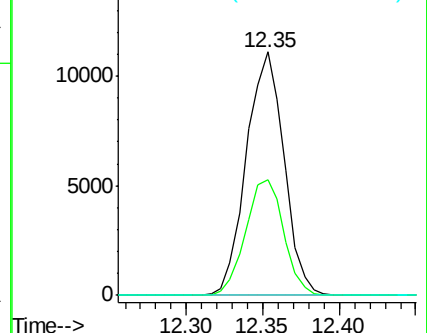
254 0.0 0.0 0.0



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: VW015825.D

Acq: 09 Jul 2020 13:42

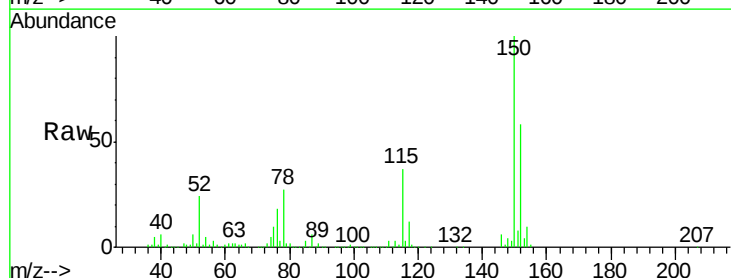
Tgt Ion:152 Resp: 158063

Ion Ratio Lower Upper

152 100

115 61.2 29.9 89.7

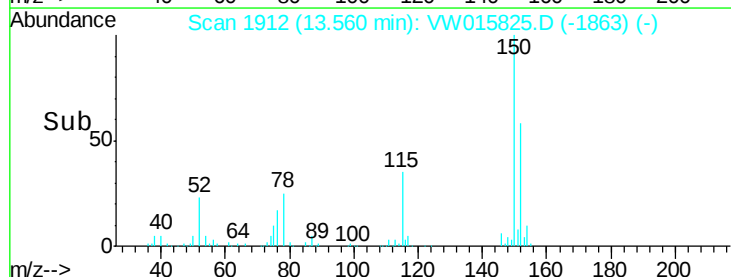
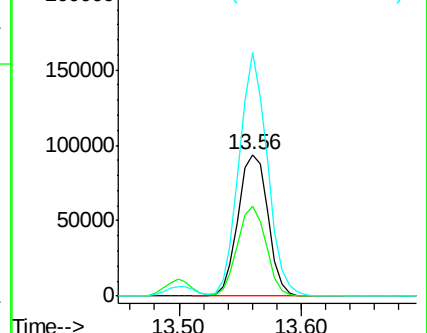
150 162.7 0.0 350.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.278 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

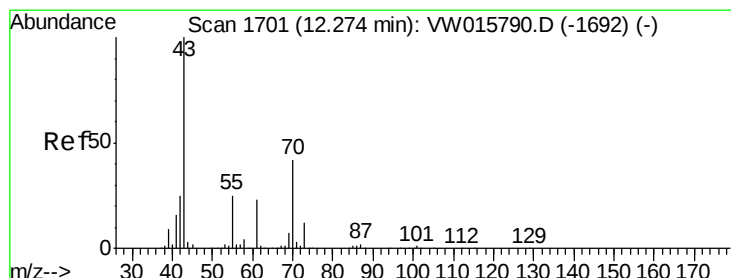
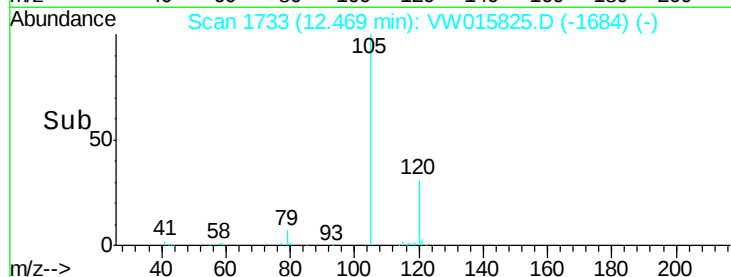
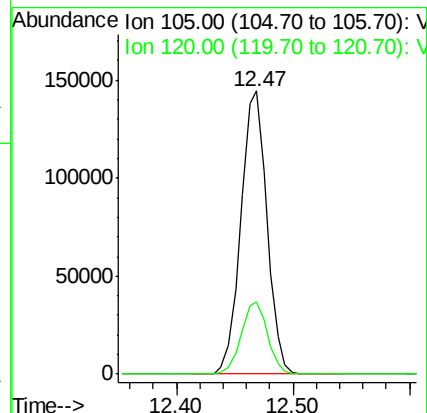
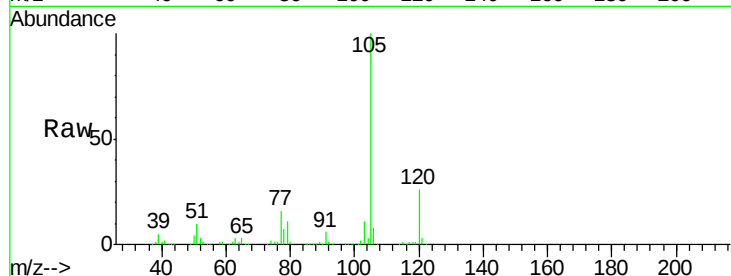
VW0709SBSD01

Tot Ion:105 Resp: 225805

Ion Ratio Lower Upper

105 100

120 25.8 13.2 39.6



#74

N-ethyl acetate

Concen: 19.364 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Tgt Ion: 43 Resp: 46132

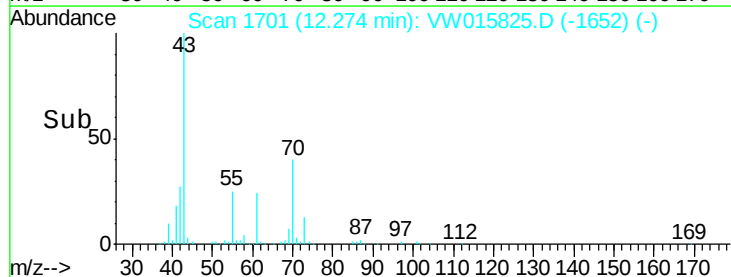
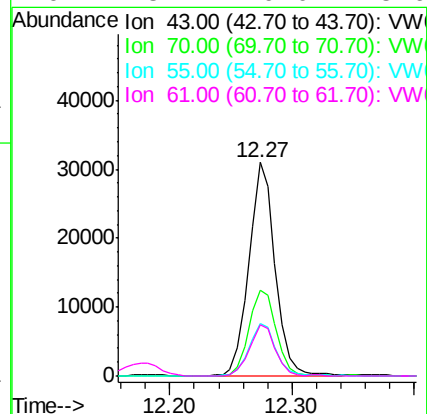
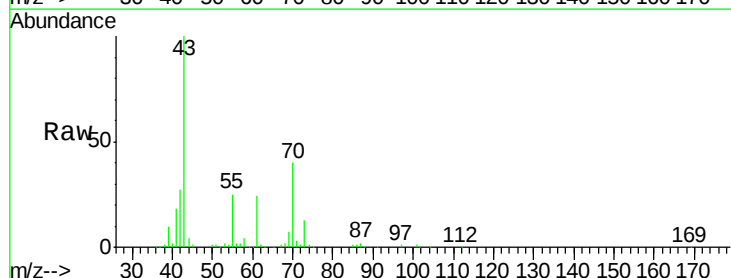
Ion Ratio Lower Upper

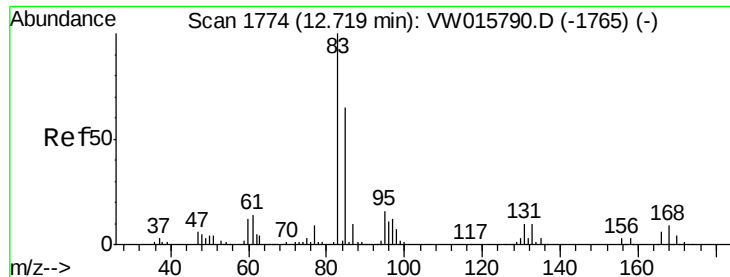
43 100

70 42.0 34.1 51.1

55 25.2 20.0 30.0

61 23.7 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 19.427 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

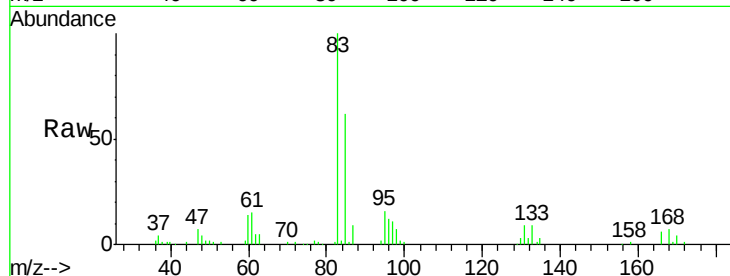
Tot Ion: 83 Resp: 35944

Ion Ratio Lower Upper

83 100

131 10.3 5.3 16.1

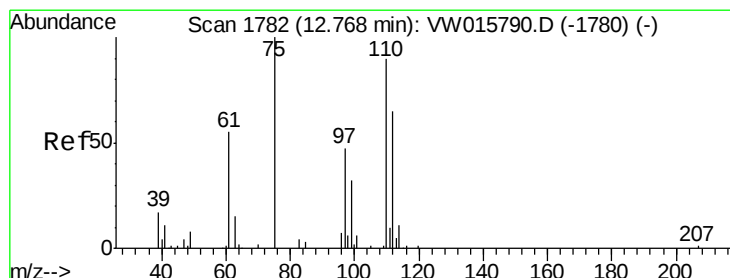
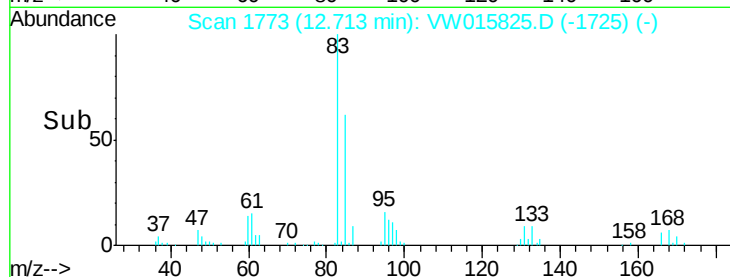
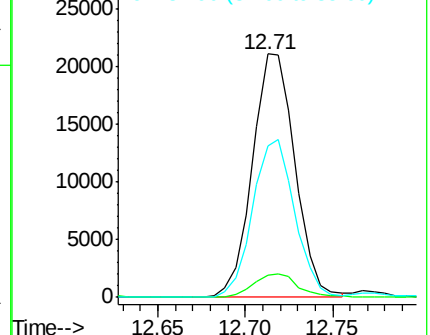
85 64.1 31.9 95.9



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: 33.477 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015825.D

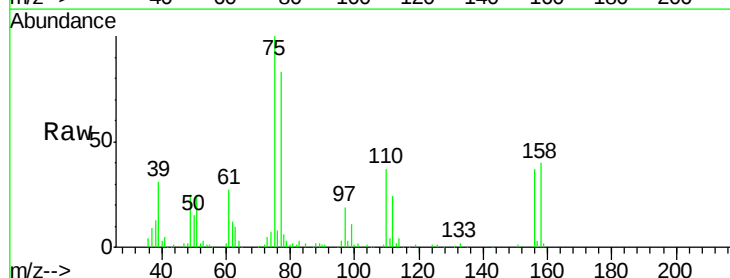
Acq: 09 Jul 2020 13:42

Tgt Ion: 75 Resp: 46505

Ion Ratio Lower Upper

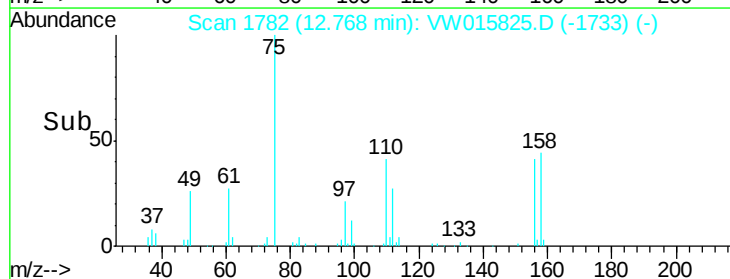
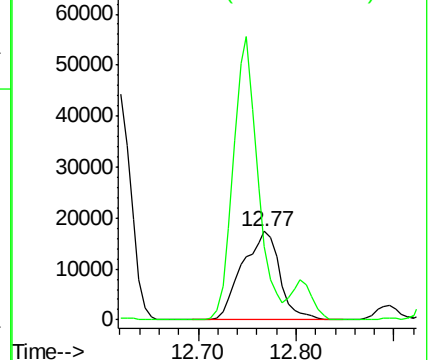
75 100

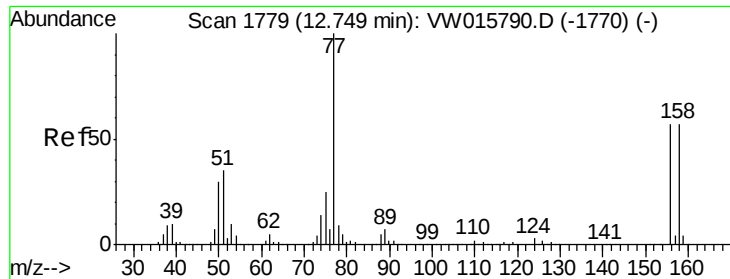
77 209.1 177.3 532.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 19.808 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

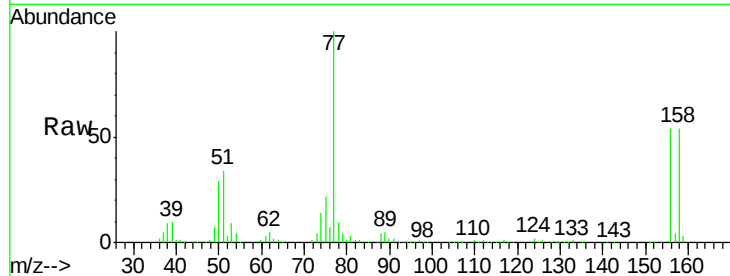
Tot Ion:156 Resp: 49457

Ion Ratio Lower Upper

156 100

77 196.6 98.8 296.4

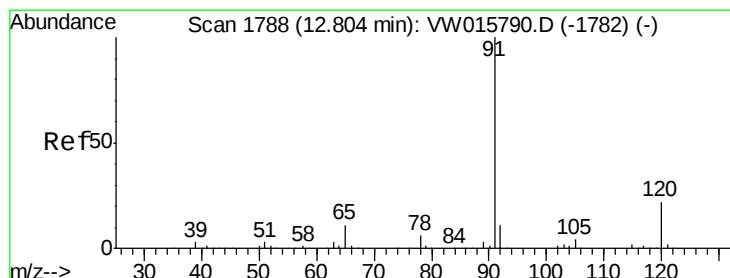
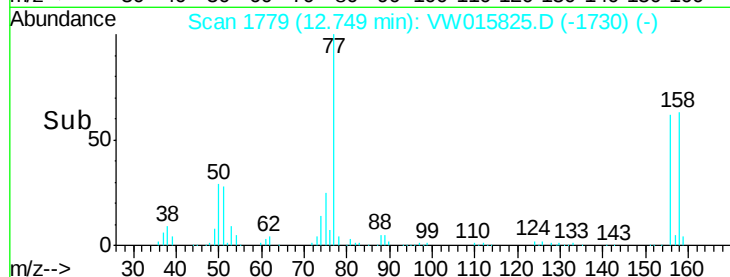
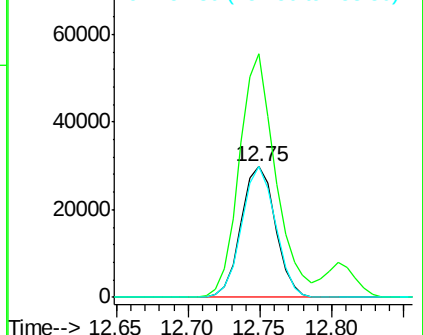
158 98.3 50.0 149.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.424 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015825.D

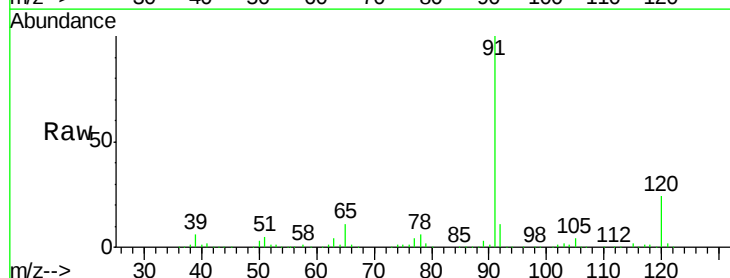
Acq: 09 Jul 2020 13:42

Tgt Ion: 91 Resp: 276046

Ion Ratio Lower Upper

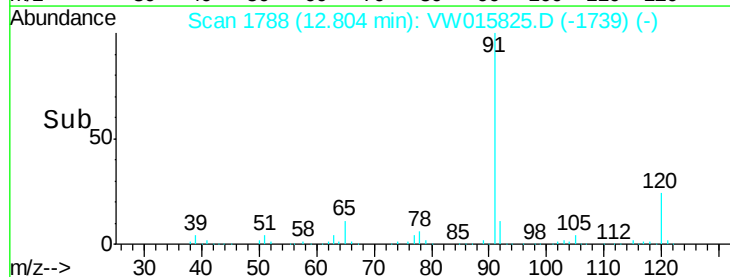
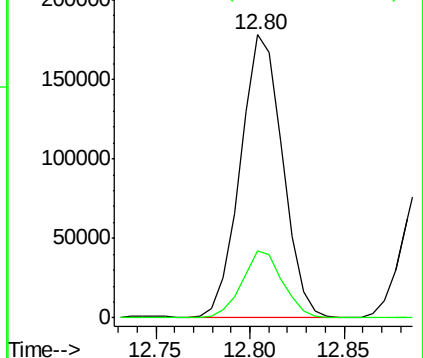
91 100

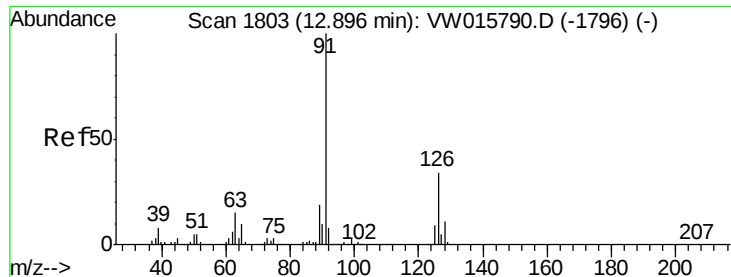
120 22.8 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.228 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

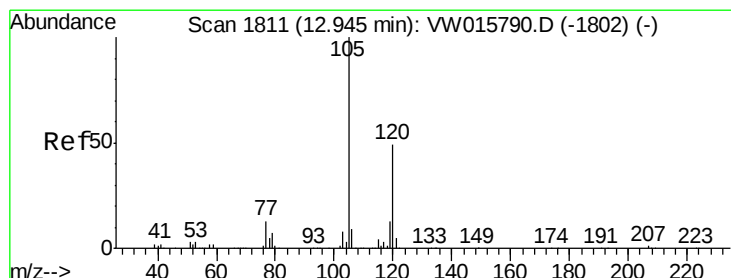
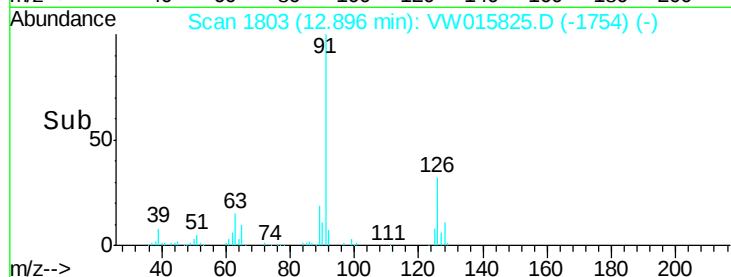
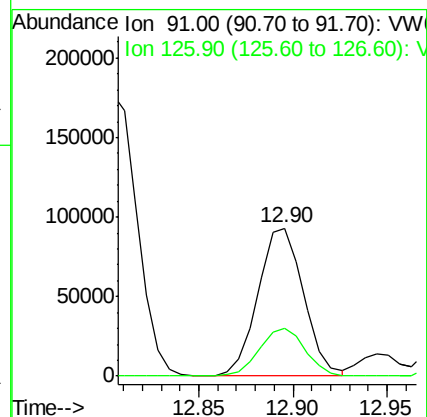
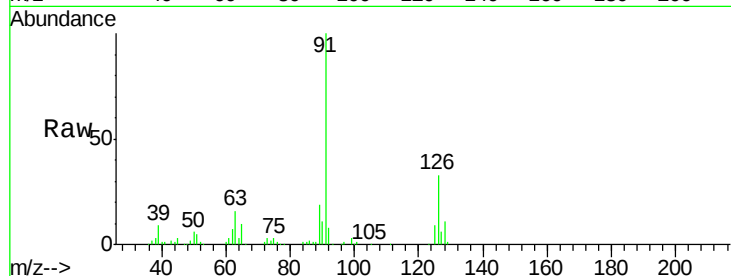
VW0709SBSD01

Tot Ion: 91 Resp: 155916

Ion Ratio Lower Upper

91 100

126 32.5 16.5 49.5



#80

1,3,5-Trimethylbenzene

Concen: 20.819 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW015825.D

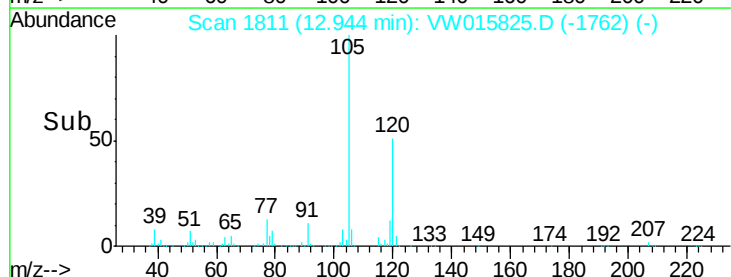
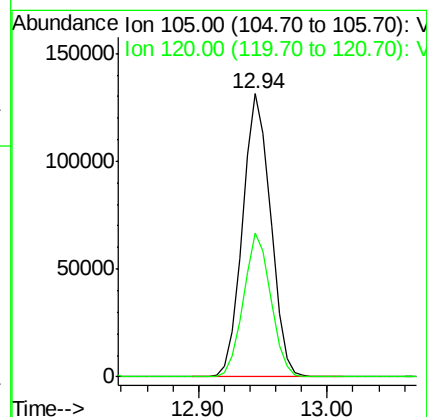
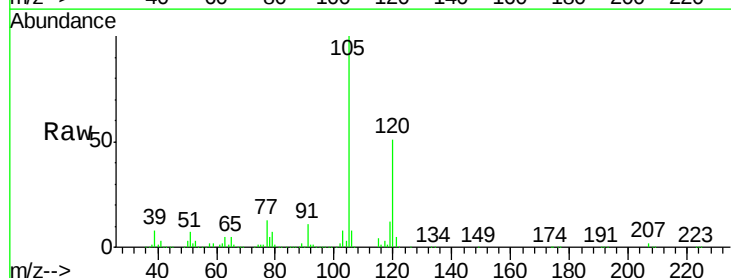
Acq: 09 Jul 2020 13:42

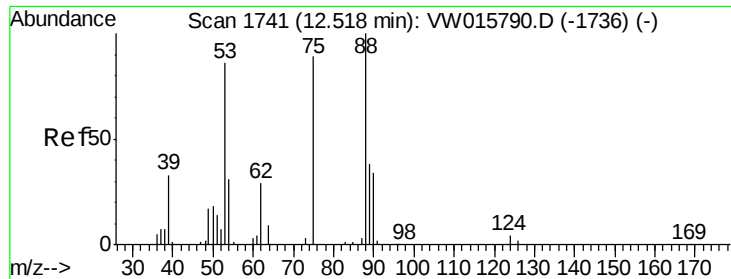
Tgt Ion:105 Resp: 197585

Ion Ratio Lower Upper

105 100

120 49.5 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 18.130 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

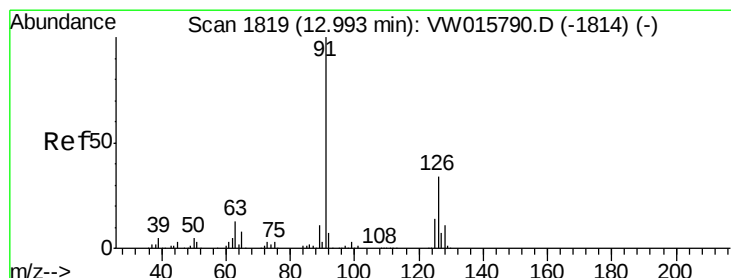
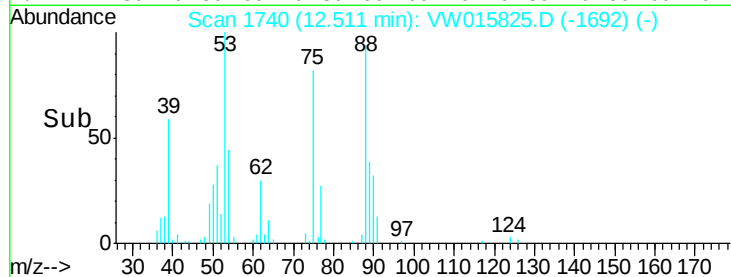
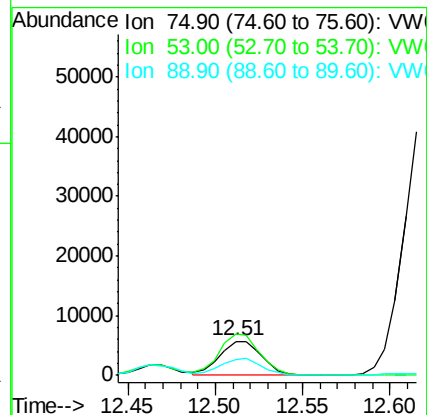
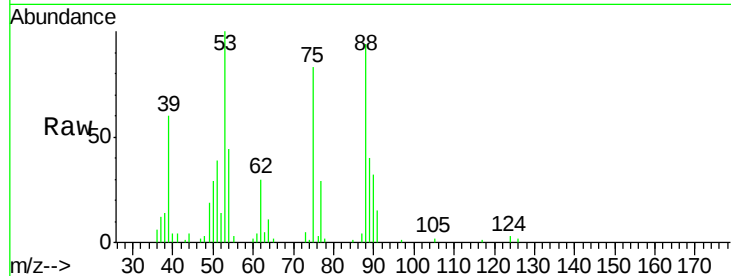
Tot Ion: 75 Resp: 9538

Ion Ratio Lower Upper

75 100

53 117.6 85.9 128.9

89 49.4 36.2 54.4



#82

4-Chlorotoluene

Concen: 20.731 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW015825.D

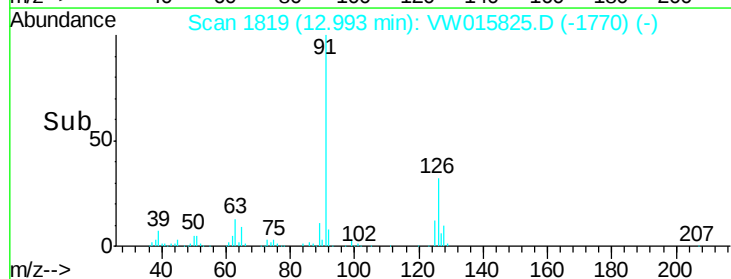
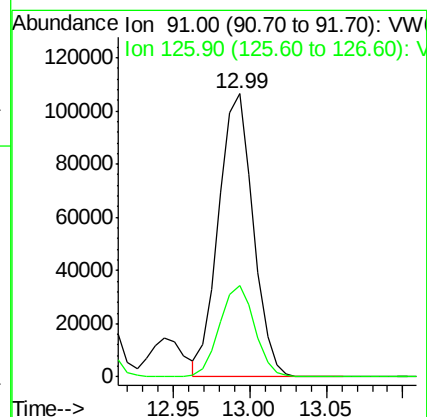
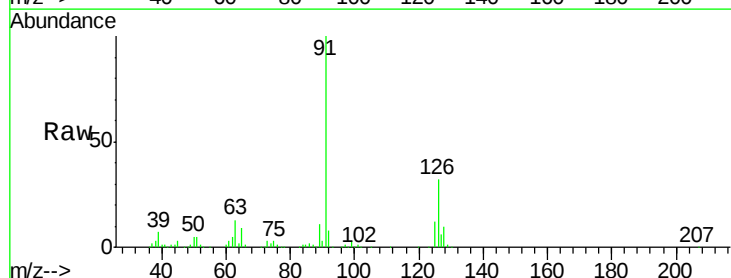
Acq: 09 Jul 2020 13:42

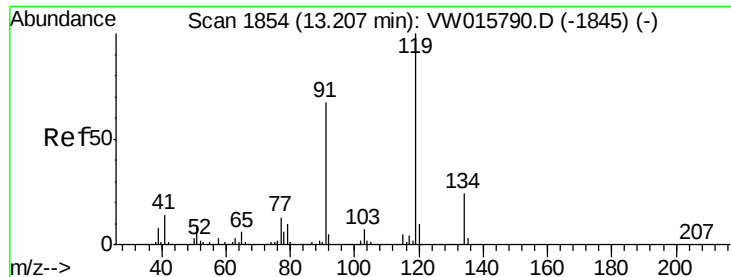
Tgt Ion: 91 Resp: 166860

Ion Ratio Lower Upper

91 100

126 32.8 16.3 48.9

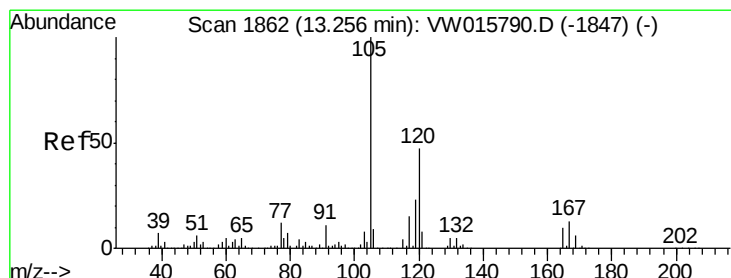
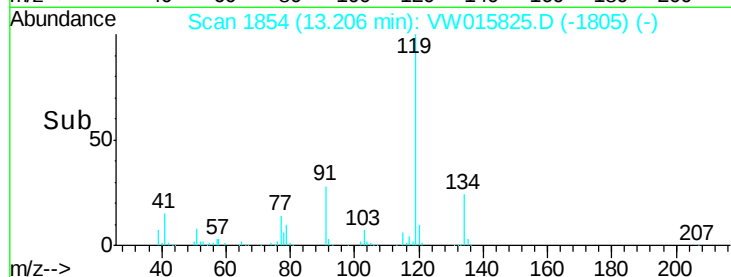
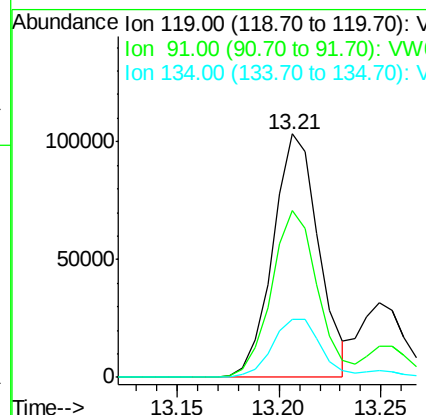
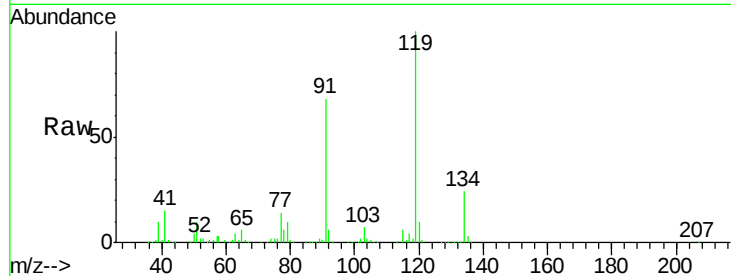




#83  
tert-Butylbenzene  
Concen: 20.507 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

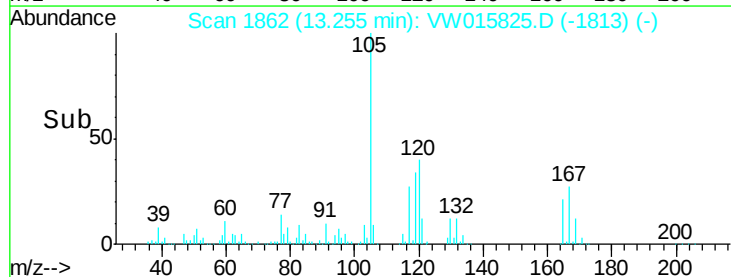
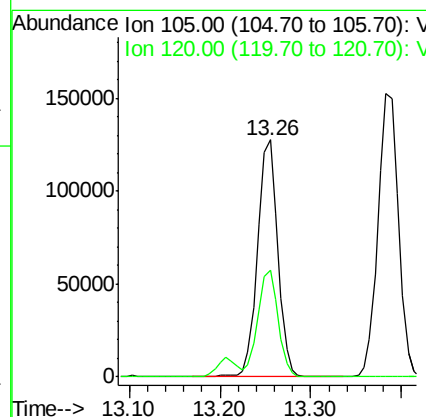
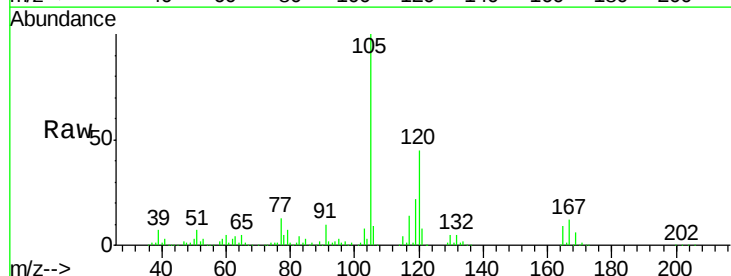
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

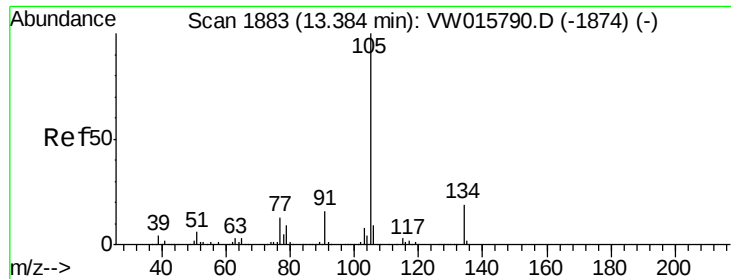
Tot Ion:119 Resp: 161580  
Ion Ratio Lower Upper  
119 100  
91 69.3 34.4 103.3  
134 25.3 13.6 40.7



#84  
1,2,4-Trimethylbenzene  
Concen: 20.837 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion:105 Resp: 197494  
Ion Ratio Lower Upper  
105 100  
120 45.3 22.8 68.4





#85

sec-Butylbenzene

Concen: 21.065 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

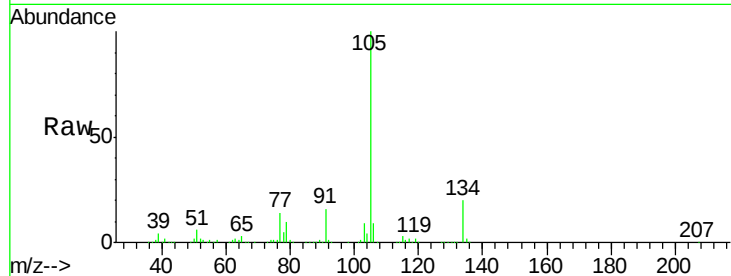
VW0709SBSD01

Tot Ion:105 Resp: 239696

Ion Ratio Lower Upper

105 100

134 20.1 10.0 29.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.38

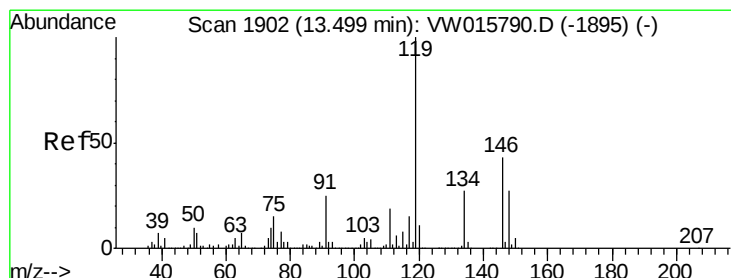
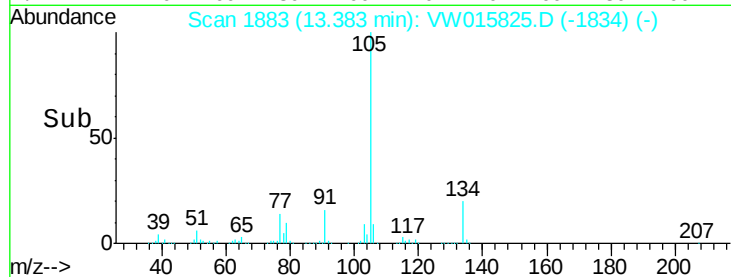
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 20.711 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

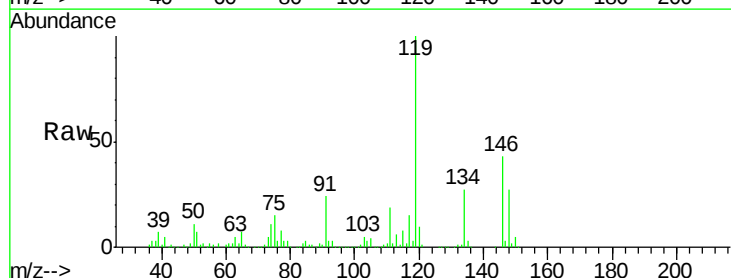
Tgt Ion:119 Resp: 215205

Ion Ratio Lower Upper

119 100

134 26.5 13.2 39.6

91 24.5 12.2 36.6



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

13.50

200000

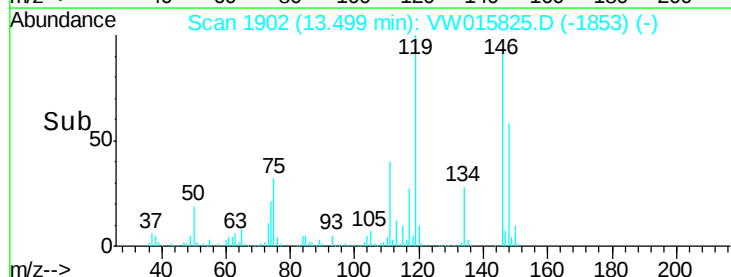
150000

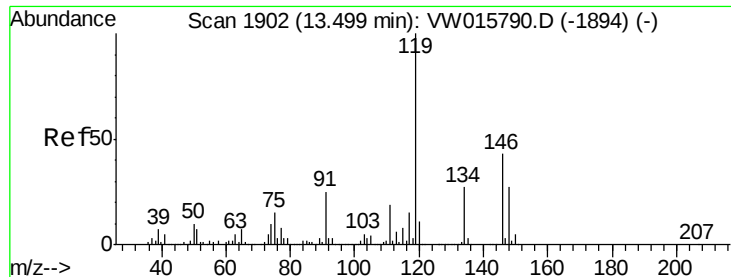
100000

50000

0

Time--> 13.45 13.50 13.55

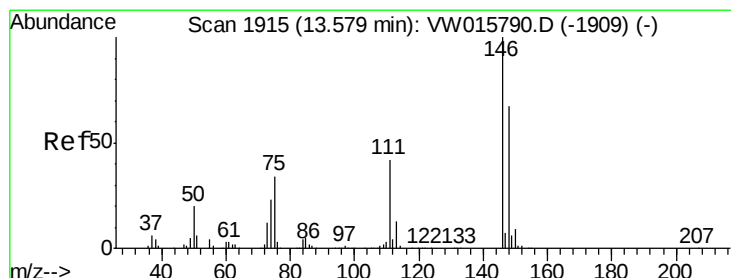
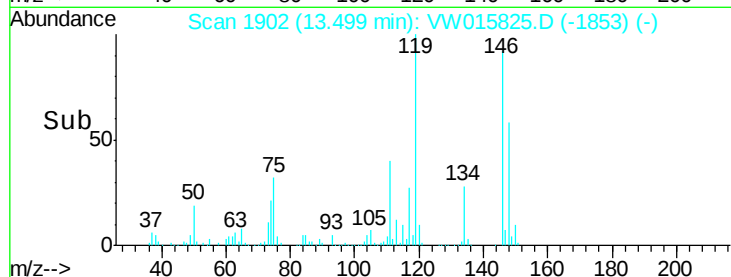
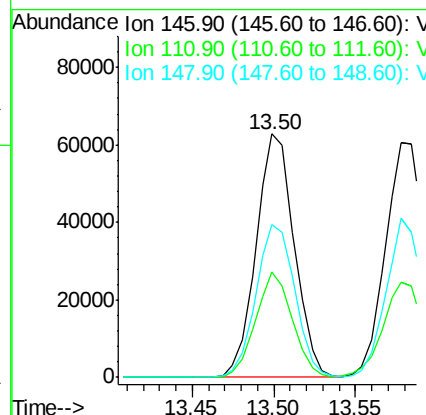
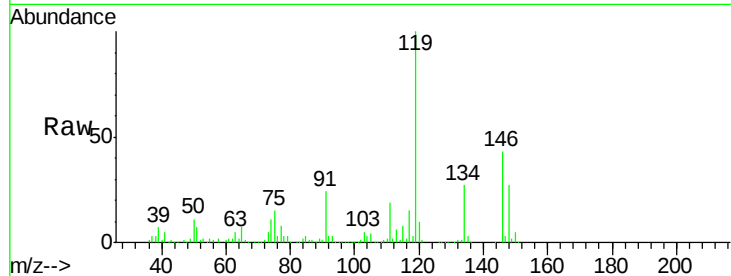




#87  
 1,3-Dichlorobenzene  
 Concen: 20.384 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

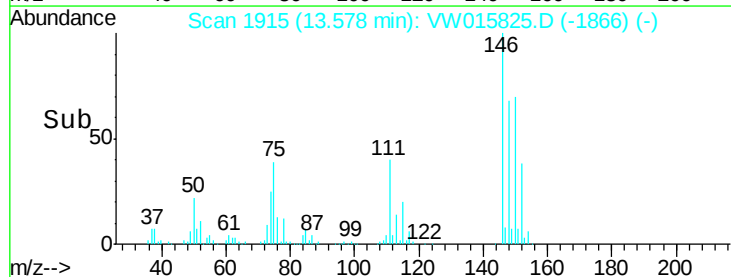
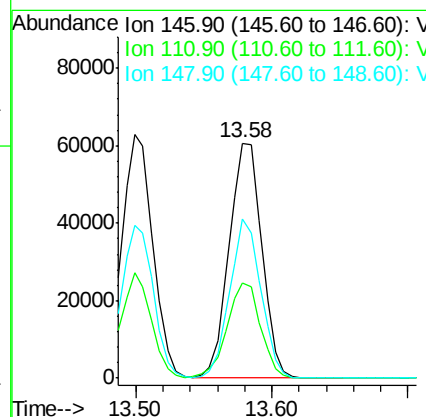
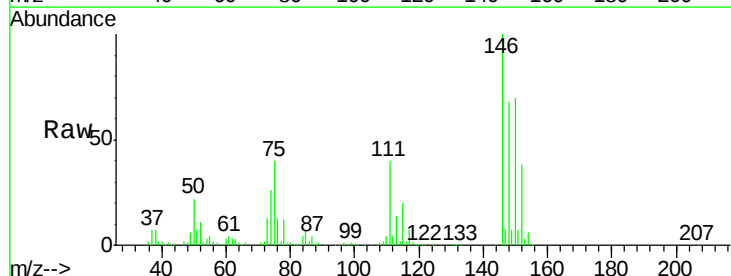
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

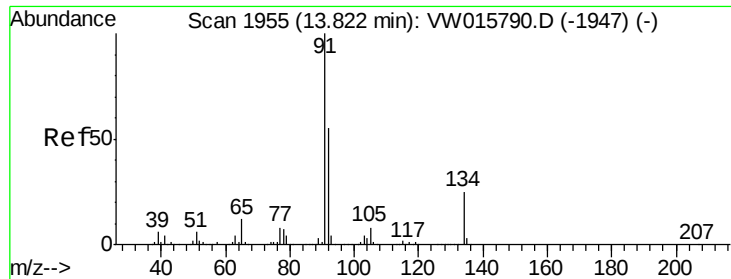
Tot Ion:146 Resp: 102022  
 Ion Ratio Lower Upper  
 146 100  
 111 41.5 20.8 62.4  
 148 63.8 31.4 94.2



#88  
 1,4-Dichlorobenzene  
 Concen: 20.701 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

Tgt Ion:146 Resp: 101431  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 20.2 60.6  
 148 64.5 31.8 95.4

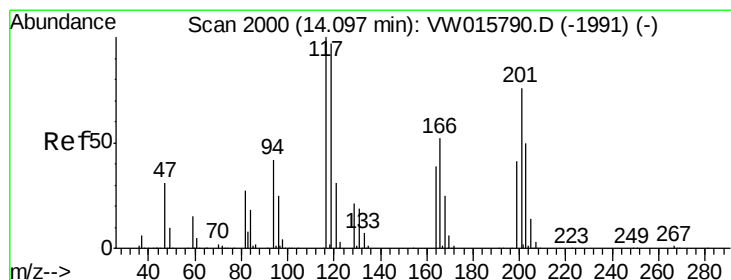
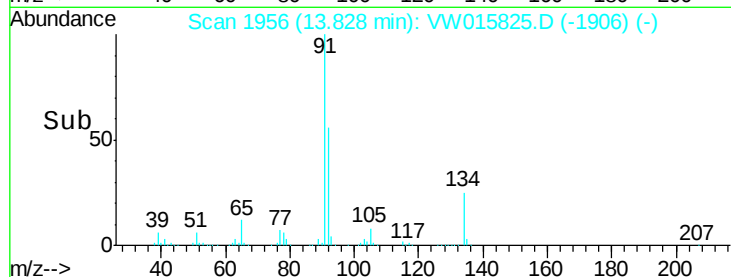
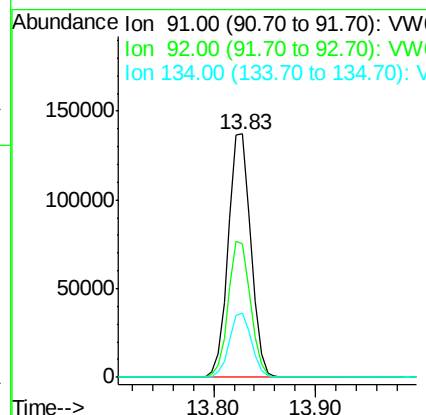
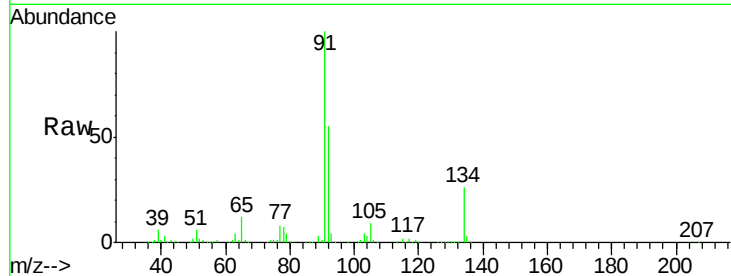




#89  
n-Butylbenzene  
Concen: 21.173 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

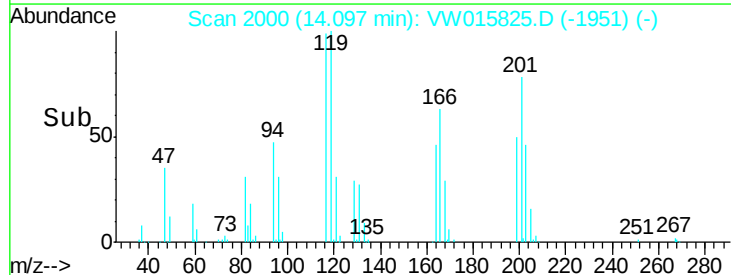
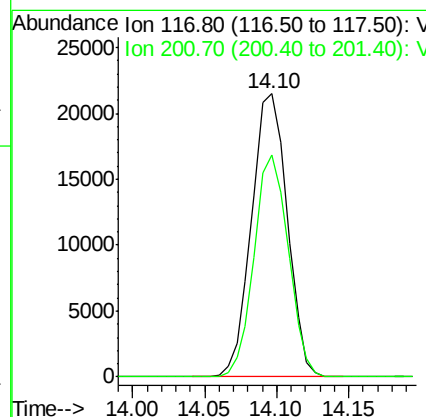
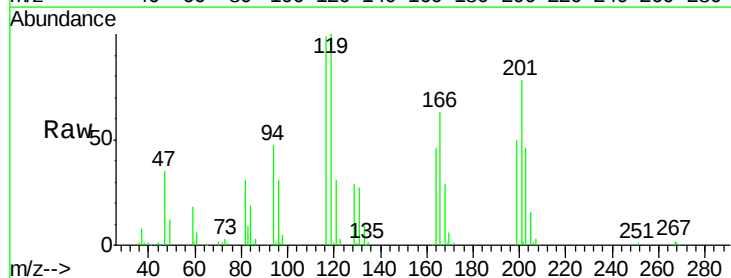
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBS01

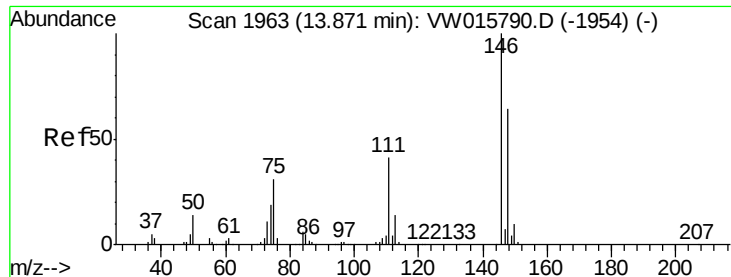
Tot Ion: 91 Resp: 210537  
Ion Ratio Lower Upper  
91 100  
92 54.9 27.2 81.6  
134 25.6 12.7 38.1



#90  
Hexachloroethane  
Concen: 19.596 ug/l  
RT: 14.10 min Scan# 2000  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion: 117 Resp: 36906  
Ion Ratio Lower Upper  
117 100  
201 75.1 37.1 111.3





#91

1,2-Dichlorobenzene

Concen: 20.762 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

Instrument :

MSVOA\_W

ClientSampleId :

VW0709SBSD01

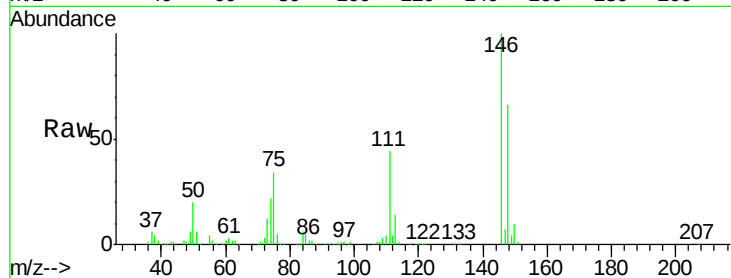
Tot Ion:146 Resp: 90030

Ion Ratio Lower Upper

146 100

111 42.6 20.6 61.9

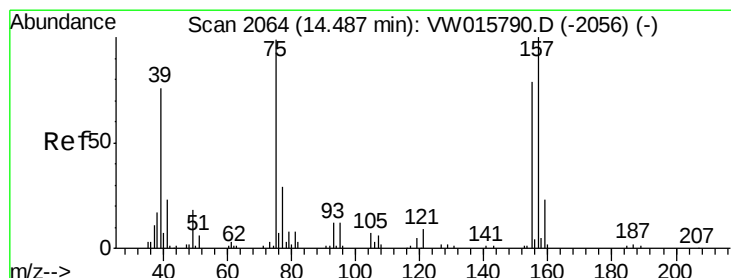
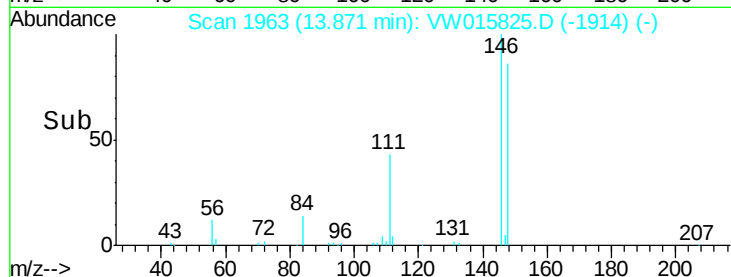
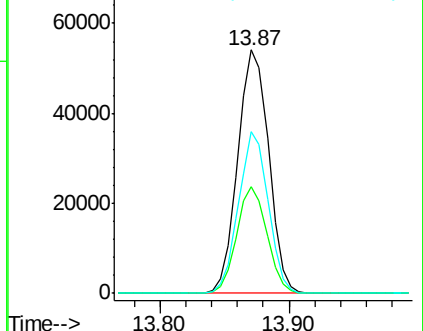
148 63.6 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.379 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW015825.D

Acq: 09 Jul 2020 13:42

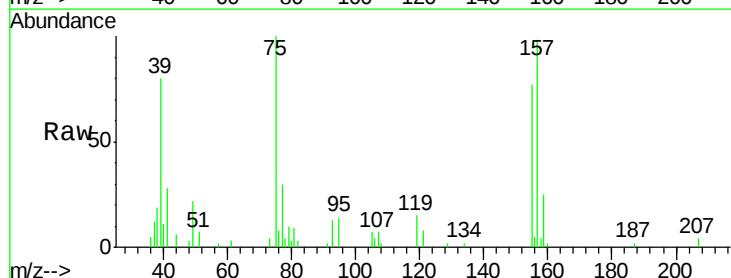
Tgt Ion: 75 Resp: 5729

Ion Ratio Lower Upper

75 100

155 75.9 39.1 117.5

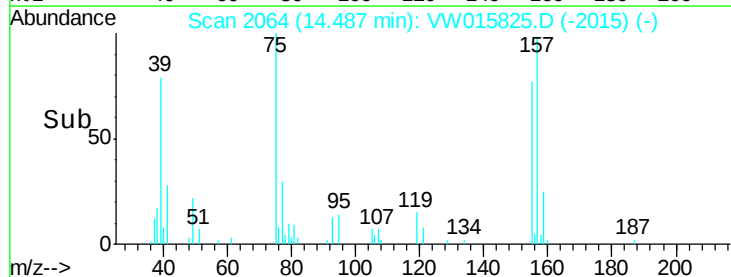
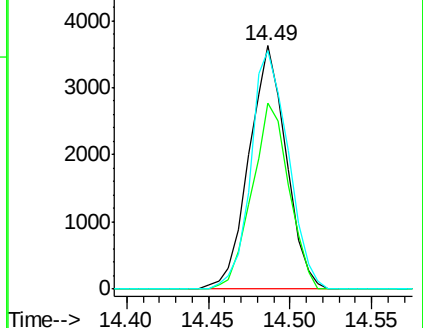
157 98.7 49.1 147.4

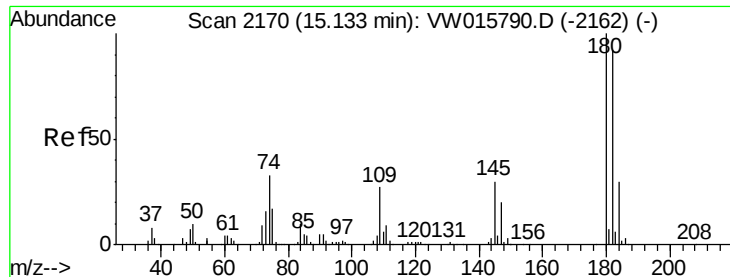


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

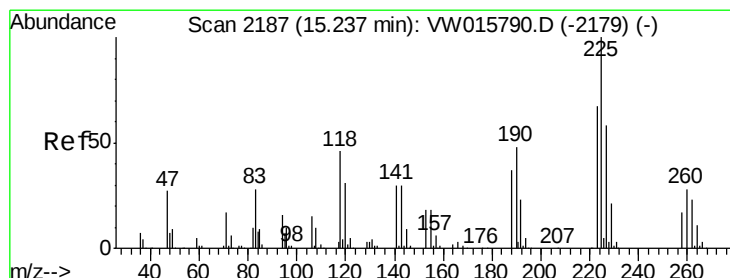
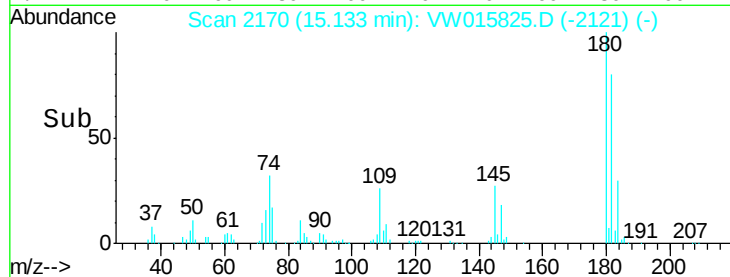
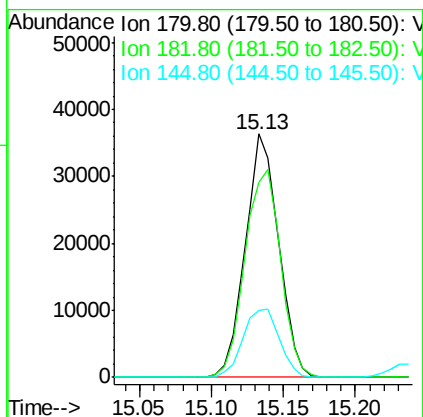
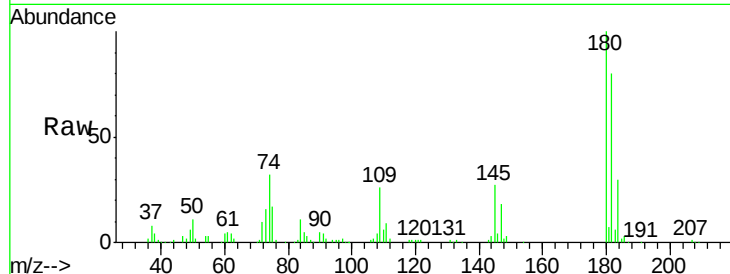




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.206 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

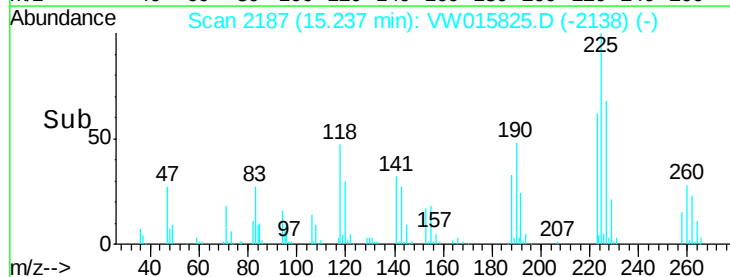
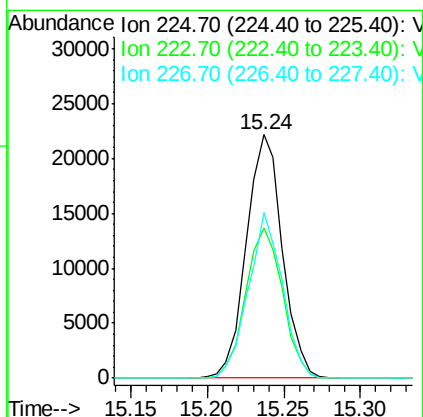
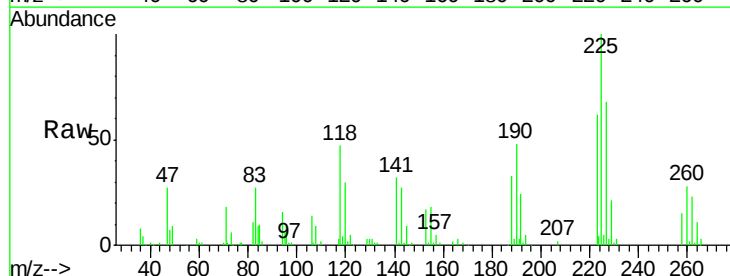
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0709SBSD01

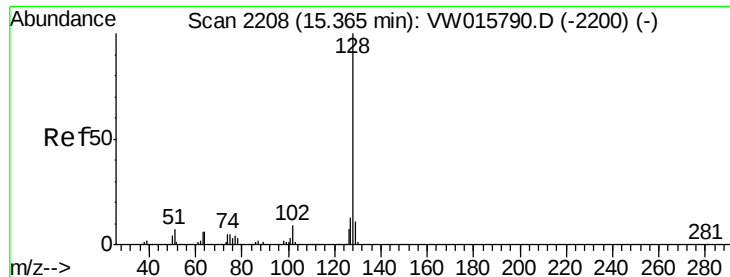
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.7  | 46.8  | 140.3 |
| 145     | 30.7  | 15.4  | 46.4  |



#94  
 Hexachlorobutadiene  
 Concen: 20.899 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW015825.D  
 Acq: 09 Jul 2020 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.5  | 32.4  | 97.2  |
| 227     | 64.6  | 30.7  | 92.1  |

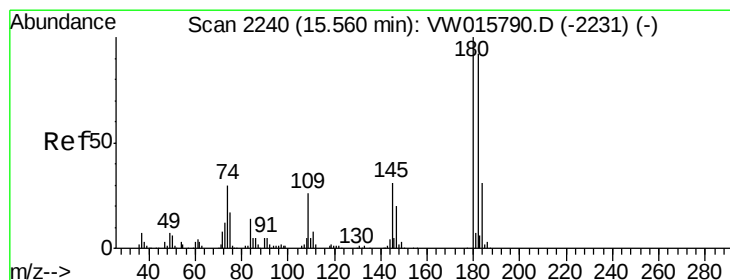
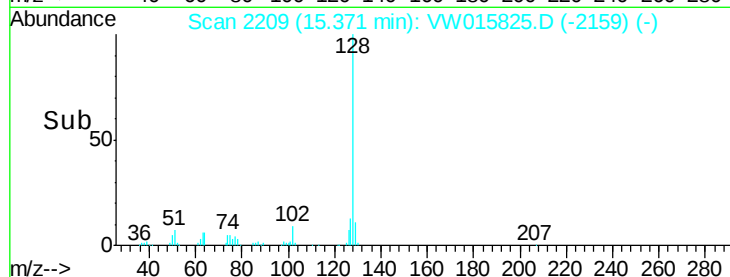
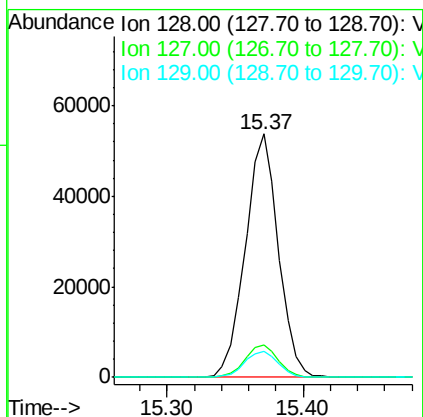
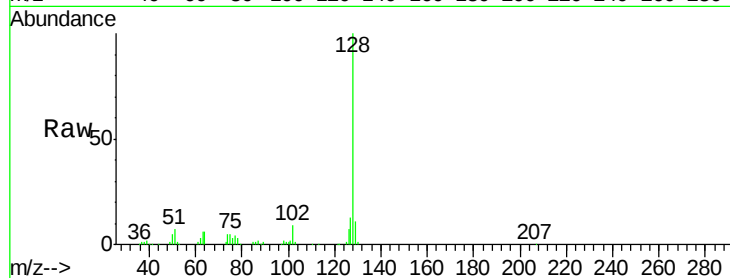




#95  
Naphthalene  
Concen: 19.677 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.01 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0709SBSD01

Tot Ion:128 Resp: 91254  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.6 16.0  
129 11.1 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 21.133 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW015825.D  
Acq: 09 Jul 2020 13:42

Tgt Ion:180 Resp: 49161  
Ion Ratio Lower Upper  
180 100  
182 95.8 47.7 143.1  
145 32.3 16.7 50.0

