

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW123020\  
 Data File : VW017775.D  
 Acq On : 30 Dec 2020 11:07  
 Operator : SY/VA  
 Sample : VSTD00504  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

Quant Time: Dec 30 12:30:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM123020SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Dec 30 12:27:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 307736   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 286131   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 145482   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 25982 | 5.38 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.88  | 69  | 22817 | 5.46 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 4.03  | 63  | 43367 | 5.04 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 7.08  | 46  | 10106 | 9.30 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 42981 | 5.02 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 25376 | 5.31 | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.27  | 84  | 82458 | 5.06 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.27  | 67  | 23897 | 5.09 | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.32 | 98  | 76825 | 4.91 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.58 | 79  | 10070 | 4.42 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.93 | 63  | 7521  | 9.68 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 21466 | 5.14 | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 24959 | 4.84 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |       |               | Qvalue |
|--------------------------------|-------|-----|-------|---------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 18531 | 5.123 ug/L    | 93     |
| 3) Chloromethane               | 2.21  | 50  | 15478 | 4.885 ug/L    | 94     |
| 5) Vinyl chloride              | 2.36  | 62  | 26184 | 4.981 ug/L    | 97     |
| 6) Bromomethane                | 2.78  | 94  | 22268 | 4.921 ug/L    | 94     |
| 8) Chloroethane                | 2.92  | 64  | 16919 | 4.881 ug/L    | 99     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 17958 | 4.845 ug/L    | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 21046 | 5.186 ug/L #  | 84     |
| 12) 1,1-Dichloroethene         | 4.05  | 96  | 19054 | 4.930 ug/L    | 89     |
| 13) Acetone                    | 4.12  | 43  | 8485  | 10.955 ug/L # | 48     |
| 14) Carbon disulfide           | 4.39  | 76  | 51754 | 4.345 ug/L    | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 8833  | 4.814 ug/L    | 90     |
| 16) Methylene chloride         | 4.92  | 84  | 27591 | 5.691 ug/L    | 95     |
| 17) trans-1,2-Dichloroethene   | 5.42  | 96  | 20261 | 4.714 ug/L    | 98     |
| 18) Methyl tert-butyl Ether    | 5.43  | 73  | 27505 | 4.941 ug/L #  | 92     |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 37646 | 4.985 ug/L    | 97     |
| 20) cis-1,2-Dichloroethene     | 7.17  | 96  | 22427 | 4.865 ug/L    | 96     |
| 22) 2-Butanone                 | 7.17  | 43  | 13995 | 11.542 ug/L   | 88     |
| 23) Bromochloromethane         | 7.51  | 128 | 9887  | 4.736 ug/L    | 94     |
| 25) Chloroform                 | 7.67  | 83  | 40327 | 5.061 ug/L    | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 28415 | 5.099 ug/L #  | 90     |
| 29) Cyclohexane                | 7.96  | 56  | 32188 | 4.622 ug/L    | 99     |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97  | 31742 | 4.746 ug/L    | 98     |
| 31) Carbon tetrachloride       | 8.07  | 117 | 29262 | 4.578 ug/L    | 98     |
| 33) Benzene                    | 8.32  | 78  | 82022 | 4.806 ug/L    | 100    |
| 34) Trichloroethene            | 9.09  | 95  | 22133 | 4.780 ug/L    | 92     |
| 35) Methylcyclohexane          | 9.34  | 83  | 36772 | 4.628 ug/L    | 99     |
| 37) 1,2-Dichloropropane        | 9.37  | 63  | 20426 | 4.929 ug/L    | 99     |
| 38) Bromodichloromethane       | 9.64  | 83  | 27191 | 4.668 ug/L    | 97     |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75  | 29628 | 4.385 ug/L    | 98     |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43  | 25926 | 10.086 ug/L   | 97     |

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 Sample : VSTD00504  
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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTD00504

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM123020SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Dec 30 12:27:36 2020  
 Response via : Initial Calibration

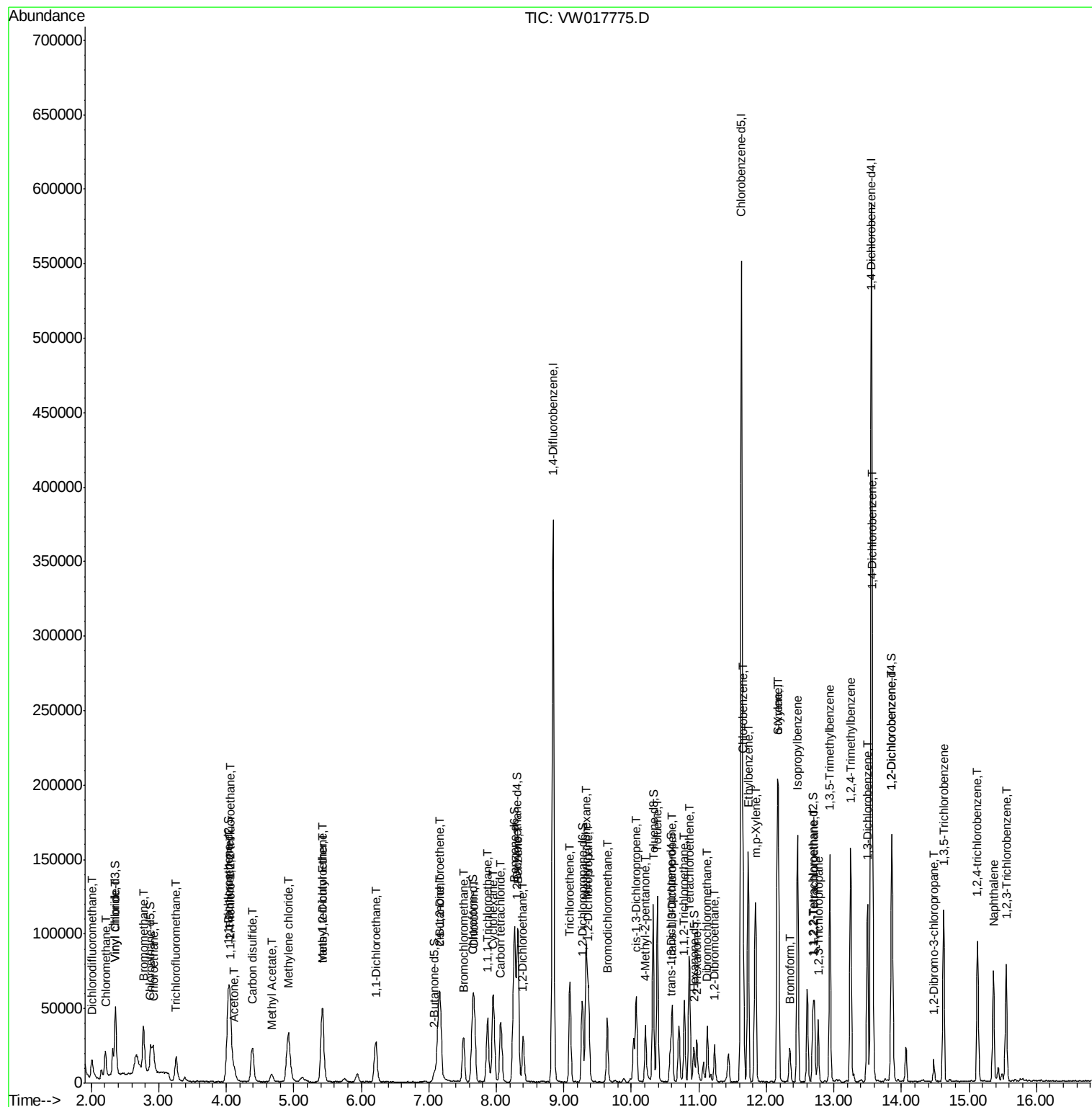
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 42) Toluene                    | 10.39 | 91   | 90203    | 4.683 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 26826    | 4.392 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 16048    | 4.816 | ug/L   | 95       |
| 46) Tetrachloroethene          | 10.87 | 164  | 16377    | 4.600 | ug/L   | 96       |
| 48) 2-Hexanone                 | 10.97 | 43   | 16766    | 9.429 | ug/L   | 98       |
| 49) Dibromochloromethane       | 11.13 | 129  | 17616    | 4.465 | ug/L   | 94       |
| 50) 1,2-Dibromoethane          | 11.24 | 107  | 15430    | 4.726 | ug/L   | 99       |
| 51) Chlorobenzene              | 11.66 | 112  | 59300    | 4.880 | ug/L   | 96       |
| 52) Ethylbenzene               | 11.73 | 91   | 103448   | 4.729 | ug/L   | 96       |
| 53) m,p-Xylene                 | 11.84 | 106  | 39501    | 4.699 | ug/L   | 97       |
| 54) o-Xylene                   | 12.16 | 106  | 37063    | 4.614 | ug/L   | 100      |
| 55) Styrene                    | 12.18 | 104  | 61790    | 4.519 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 21109    | 5.202 | ug/L # | 97       |
| 59) Bromoform                  | 12.35 | 173  | 8835     | 4.184 | ug/L   | 96       |
| 60) Isopropylbenzene           | 12.46 | 105  | 101425   | 4.786 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 15161    | 5.087 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 79260    | 4.595 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 81070    | 4.625 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 44310    | 4.819 | ug/L   | 90       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 44712    | 4.907 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 40438    | 4.847 | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 3568     | 5.213 | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 30920    | 4.940 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 26375    | 4.883 | ug/L   | 99       |
| 71) Naphthalene                | 15.36 | 128  | 56902    | 4.862 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 23216    | 4.914 | ug/L   | 100      |
| -----                          |       |      |          |       |        |          |

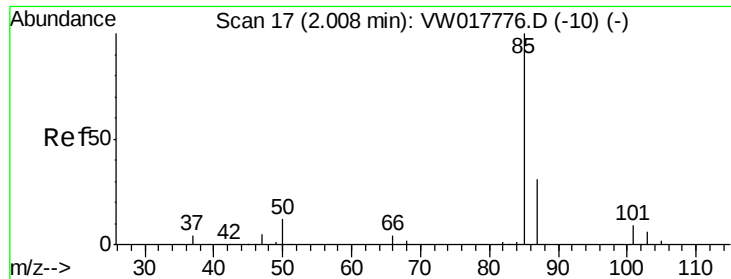
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
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Quant Title : SFAM01.0  
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.123 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

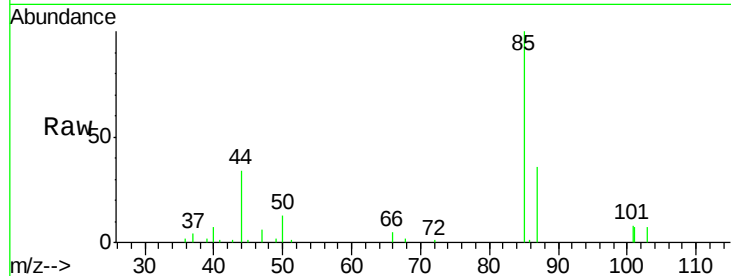
VSTD00504

Tgt Ion: 85 Resp: 18531

Ion Ratio Lower Upper

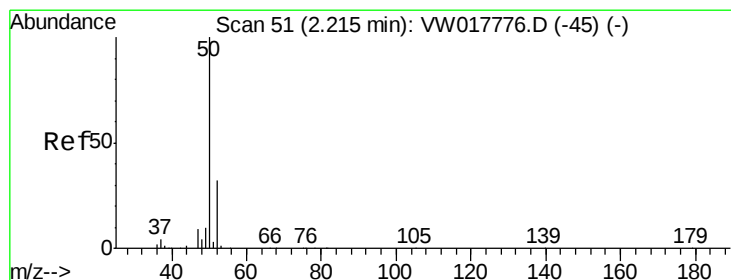
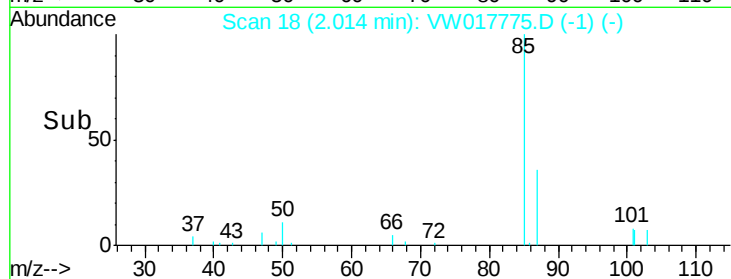
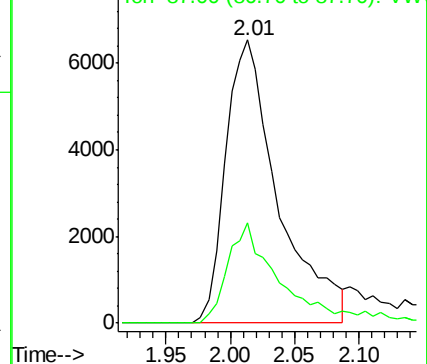
85 100

87 32.9 23.3 34.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 4.885 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW017775.D

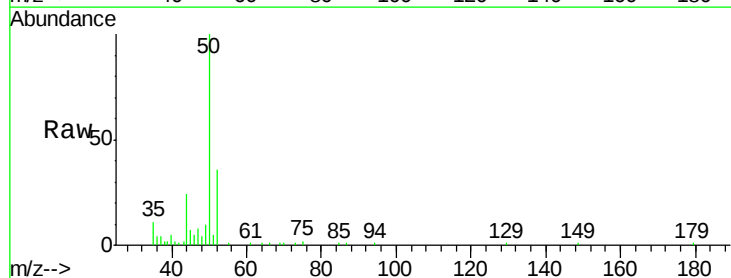
Acq: 30 Dec 2020 11:07

Tgt Ion: 50 Resp: 15478

Ion Ratio Lower Upper

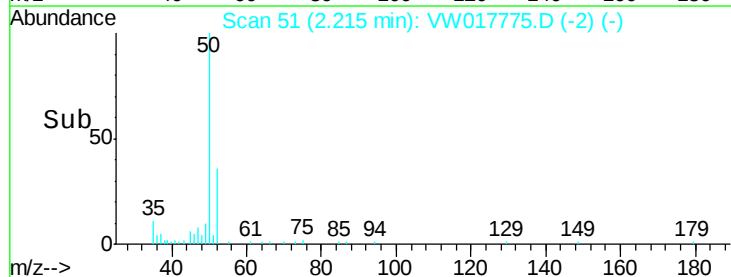
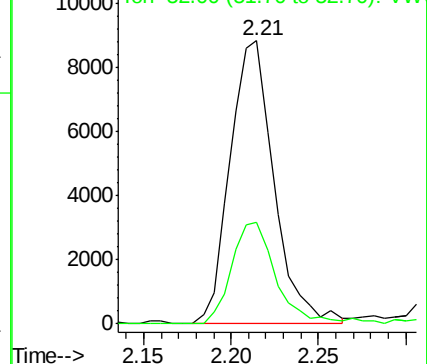
50 100

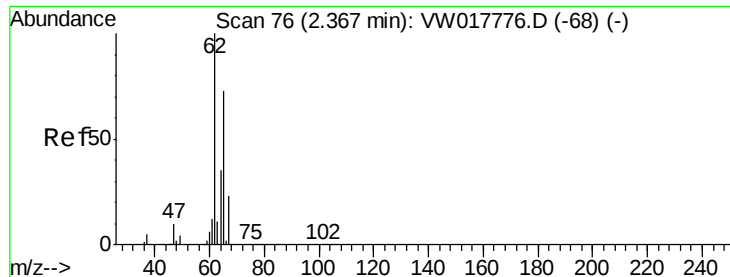
52 35.7 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 4.981 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

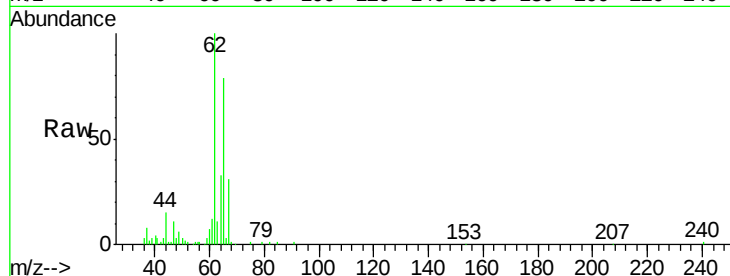
VSTD00504

Tgt Ion: 62 Resp: 26184

Ion Ratio Lower Upper

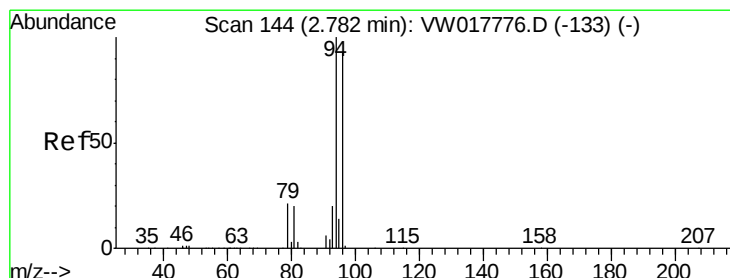
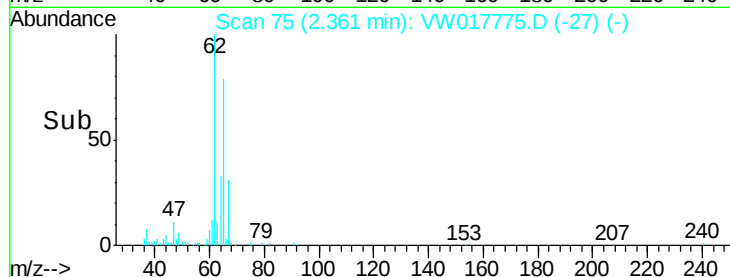
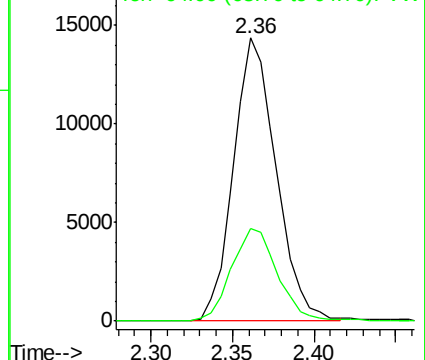
62 100

64 32.8 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 4.921 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW017775.D

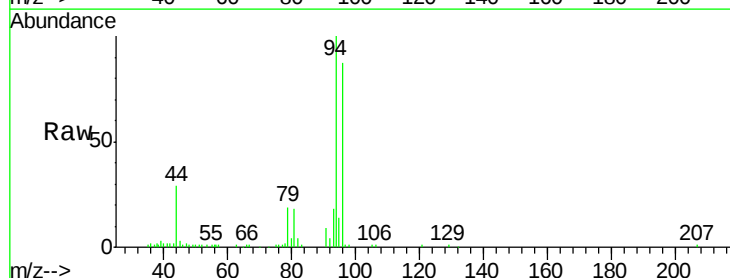
Acq: 30 Dec 2020 11:07

Tgt Ion: 94 Resp: 22268

Ion Ratio Lower Upper

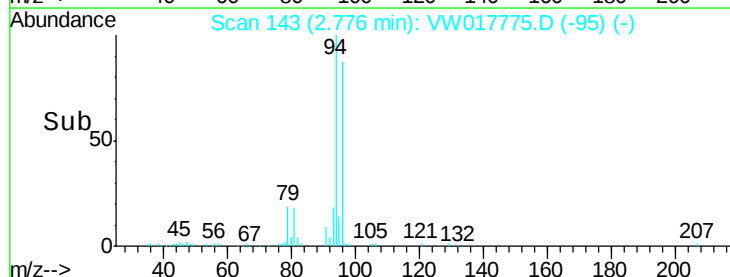
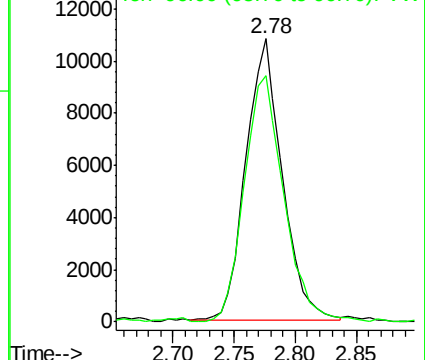
94 100

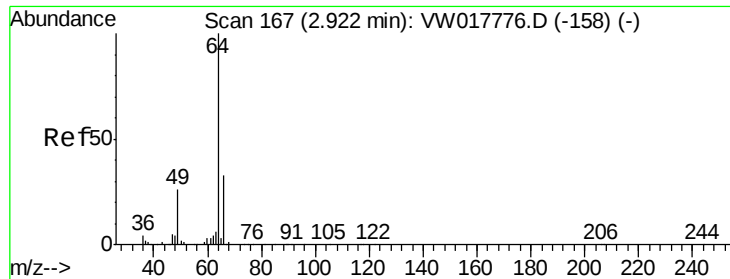
96 87.1 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 4.881 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

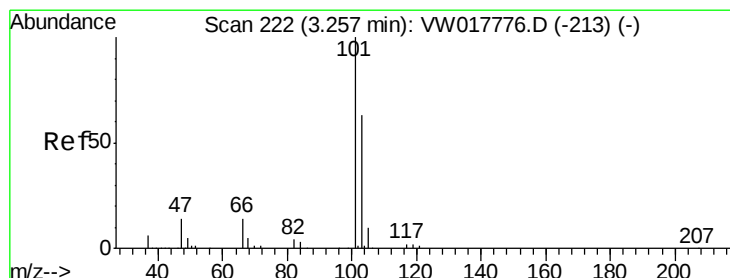
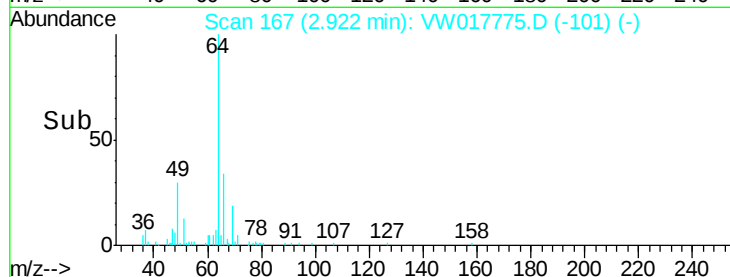
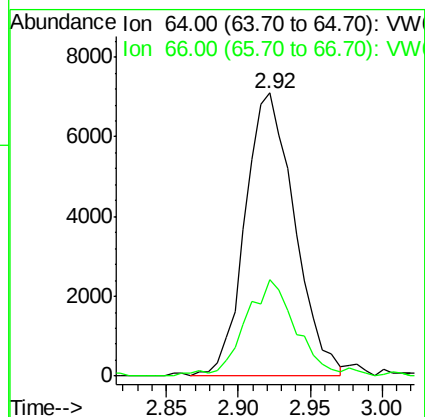
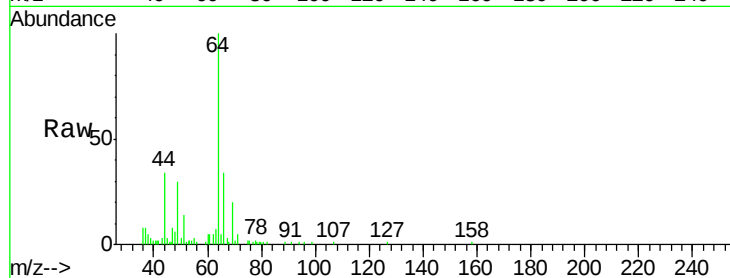
VSTD00504

Tgt Ion: 64 Resp: 16919

Ion Ratio Lower Upper

64 100

66 34.0 23.4 43.6



#9

Trichlorofluoromethane

Concen: 4.845 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW017775.D

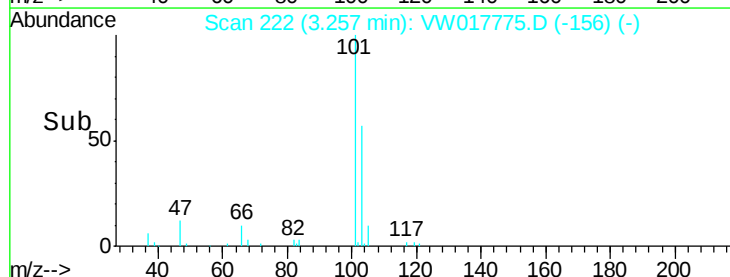
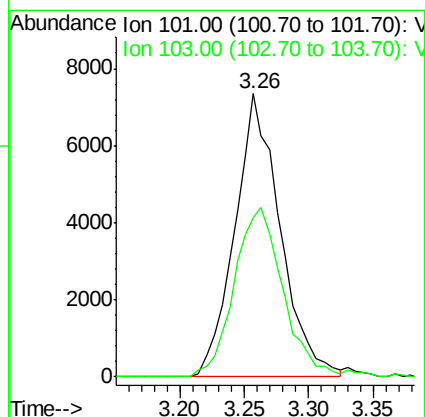
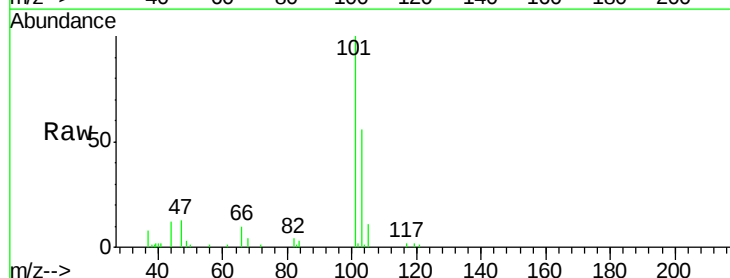
Acq: 30 Dec 2020 11:07

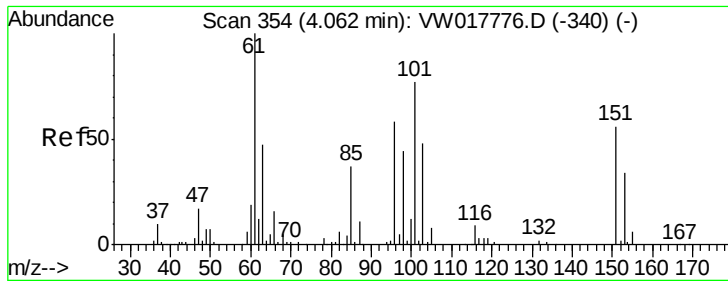
Tgt Ion: 101 Resp: 17958

Ion Ratio Lower Upper

101 100

103 63.8 51.0 76.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.186 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

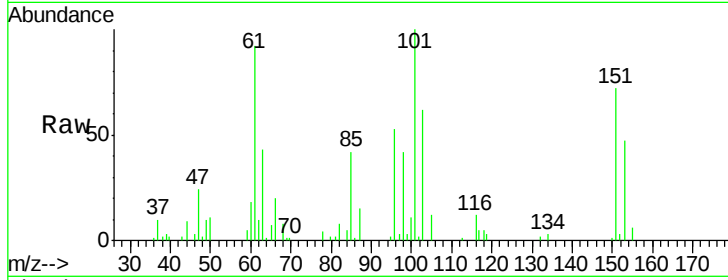
Tgt Ion:101 Resp: 21046

Ion Ratio Lower Upper

101 100

85 20.4 38.2 57.2#

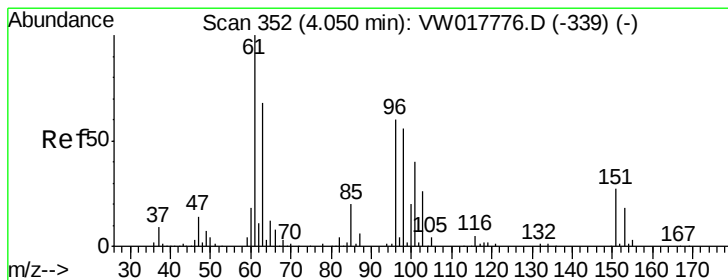
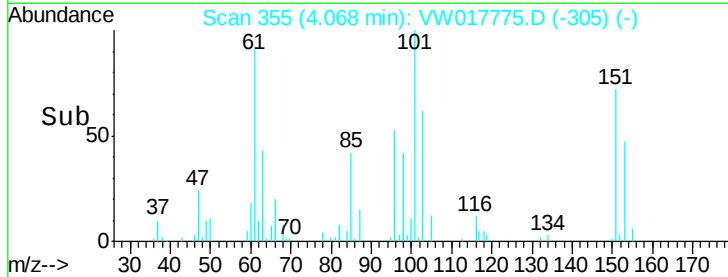
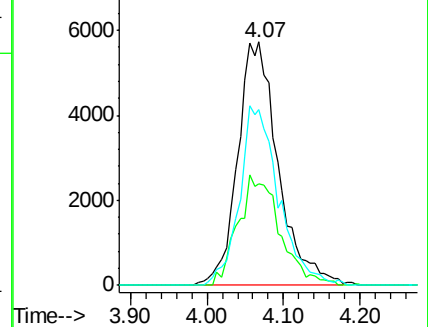
151 70.8 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.930 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

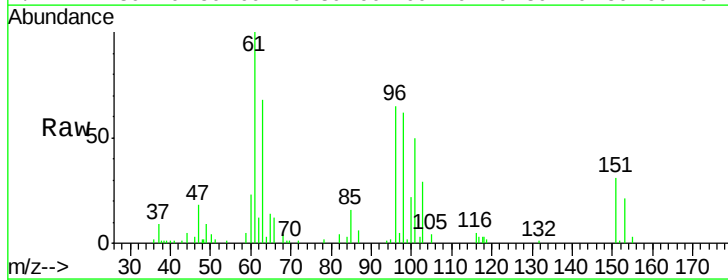
Tgt Ion: 96 Resp: 19054

Ion Ratio Lower Upper

96 100

61 154.6 118.1 219.3

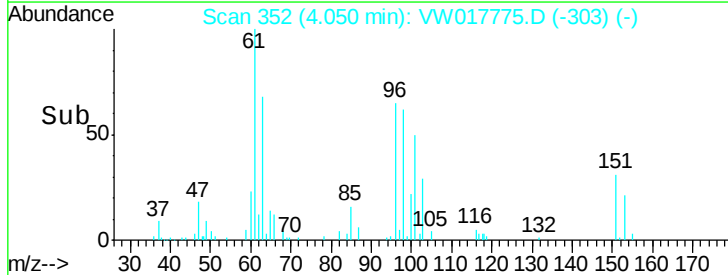
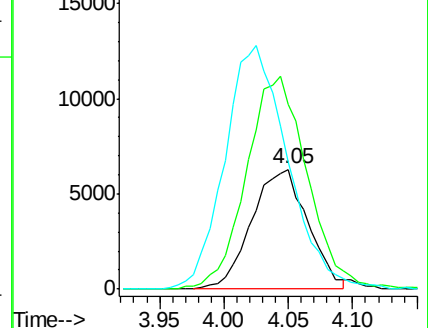
63 105.6 83.7 155.5

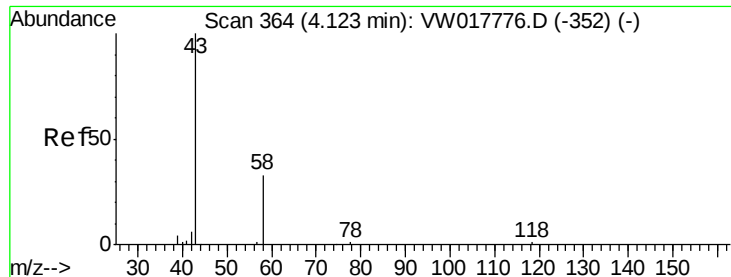


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 10.955 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

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Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

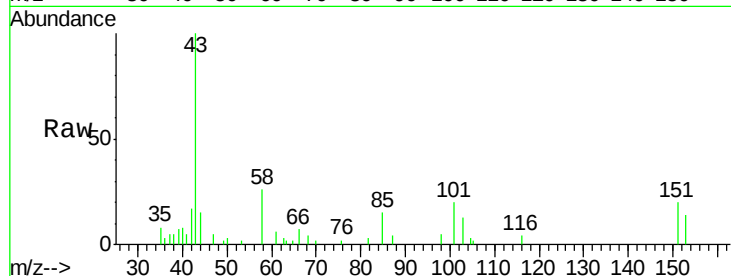
VSTD00504

Tgt Ion: 43 Resp: 8485

Ion Ratio Lower Upper

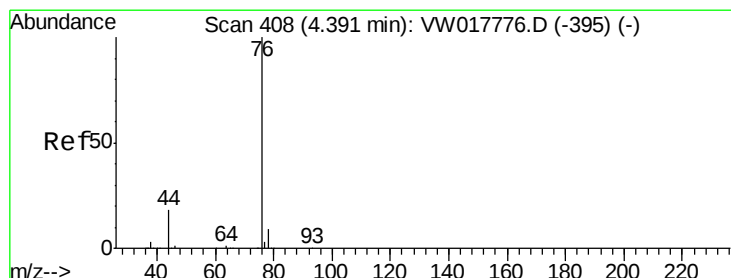
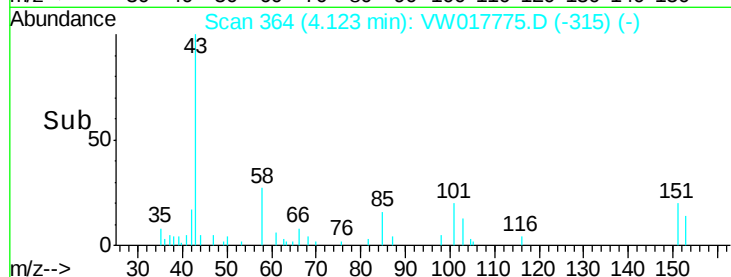
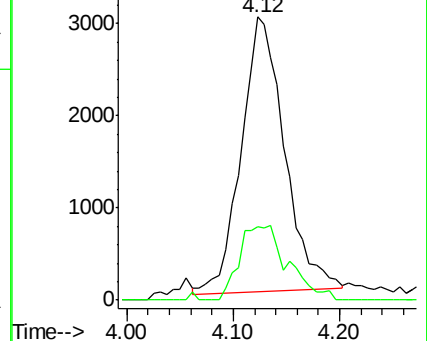
43 100

58 0.0 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 4.345 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.00 min

Lab File: VW017775.D

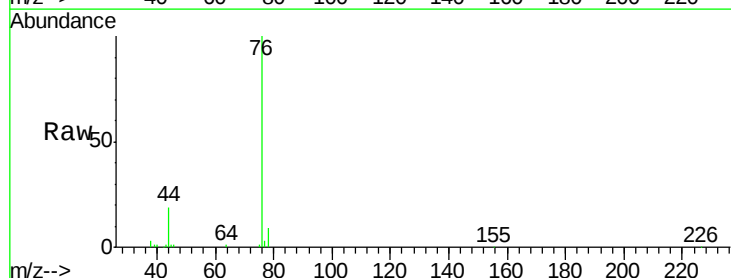
Acq: 30 Dec 2020 11:07

Tgt Ion: 76 Resp: 51754

Ion Ratio Lower Upper

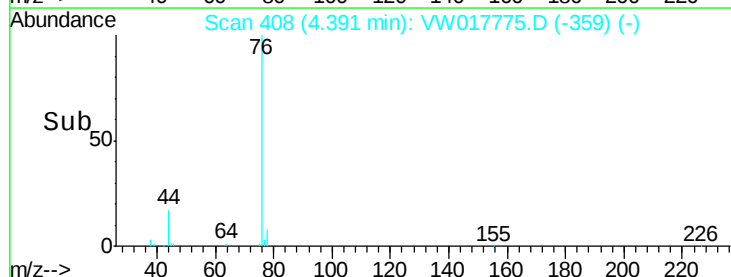
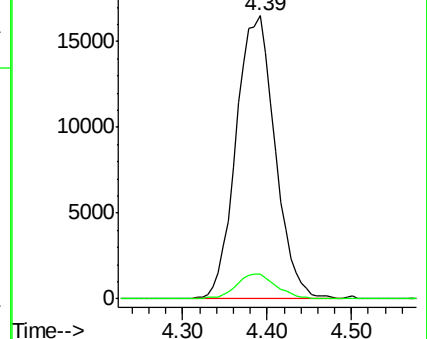
76 100

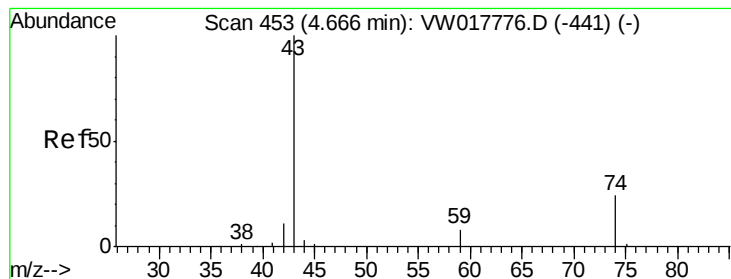
78 8.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 4.814 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

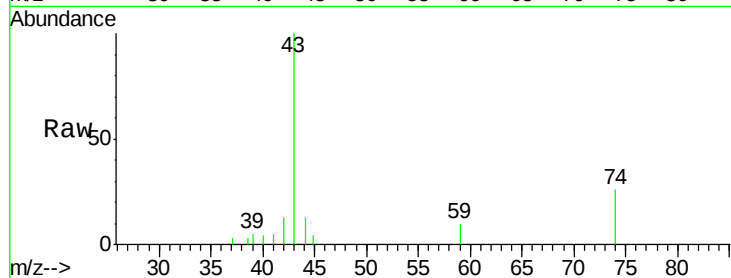
VSTD00504

Tgt Ion: 43 Resp: 8833

Ion Ratio Lower Upper

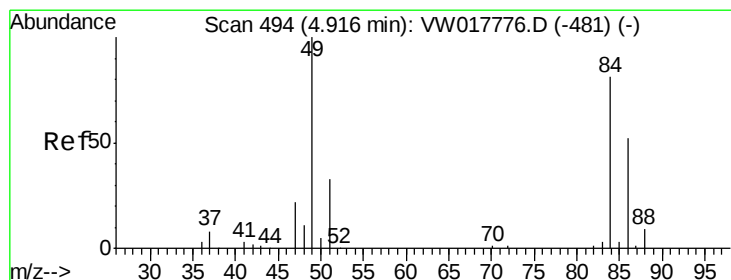
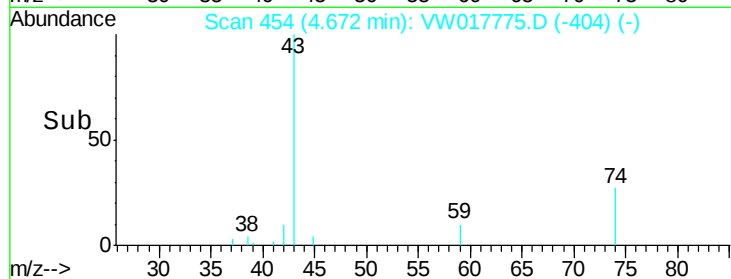
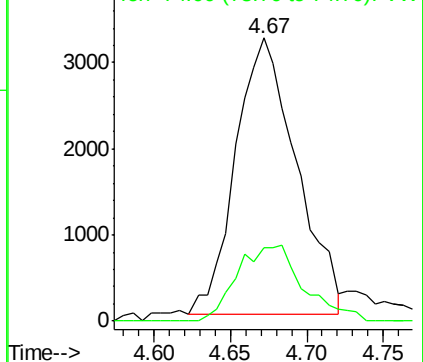
43 100

74 30.0 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 5.691 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

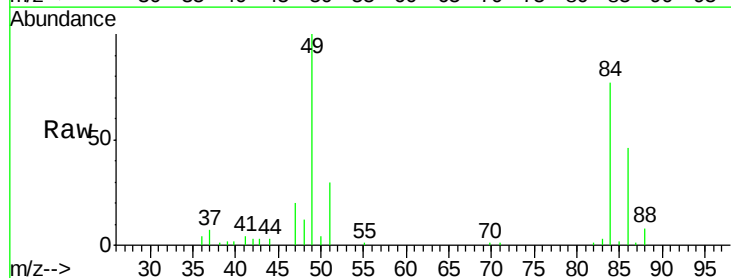
Tgt Ion: 84 Resp: 27591

Ion Ratio Lower Upper

84 100

86 59.9 45.3 84.1

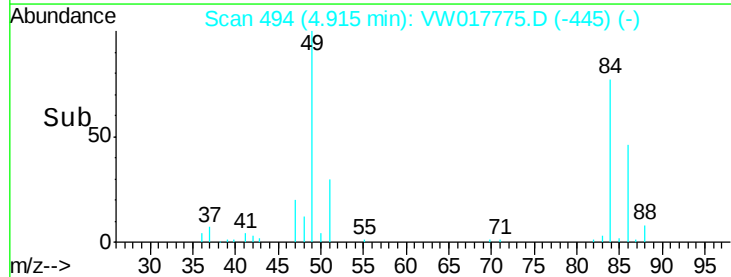
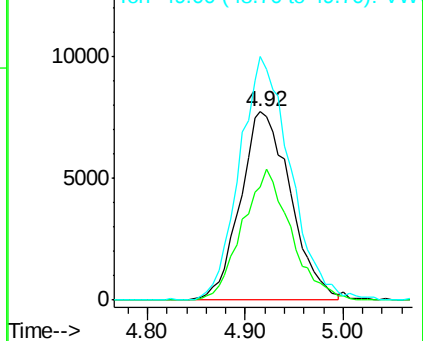
49 129.5 86.6 160.8

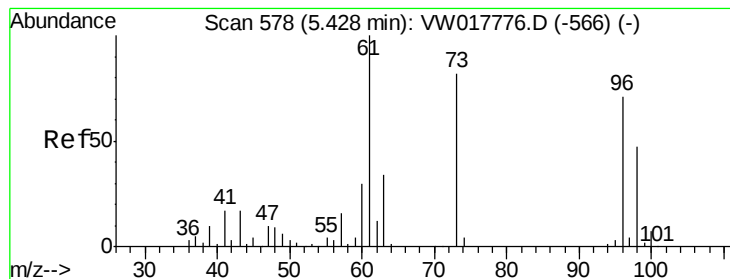


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 86.00 (85.70 to 86.70): VW

Ion 49.00 (48.70 to 49.70): VW





#17

trans-1,2-Dichloroethene

Concen: 4.714 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampled :

VSTD00504

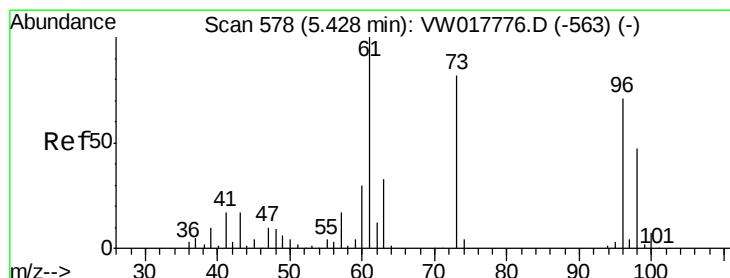
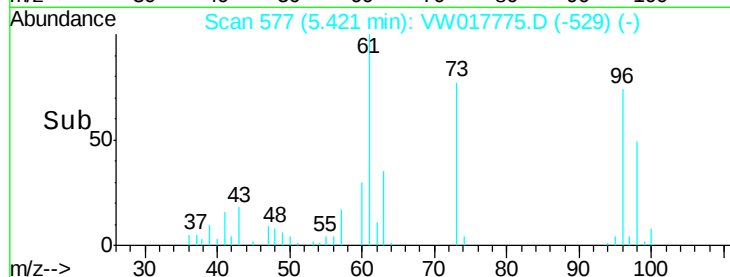
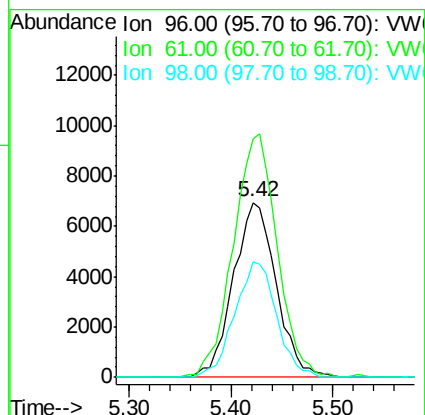
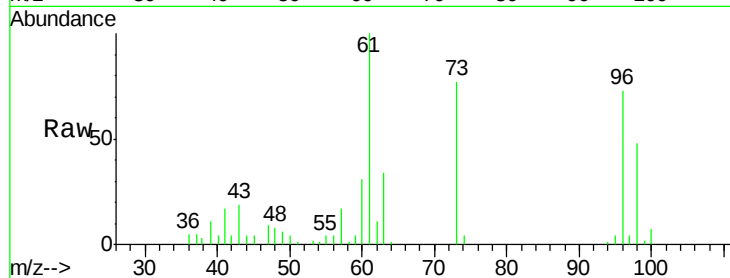
Tgt Ion: 96 Resp: 20261

Ion Ratio Lower Upper

96 100

61 136.1 98.3 182.7

98 65.9 46.1 85.7



#18

Methyl tert-butyl Ether

Concen: 4.941 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

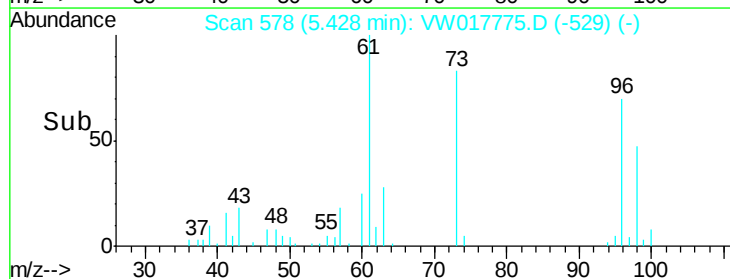
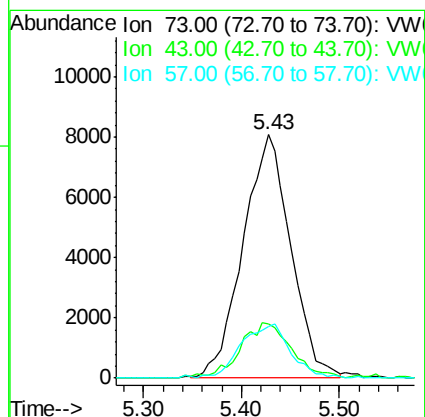
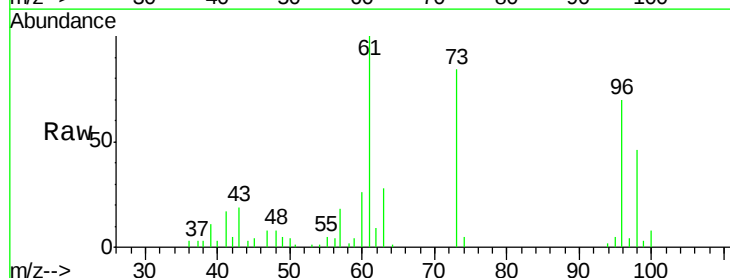
Tgt Ion: 73 Resp: 27505

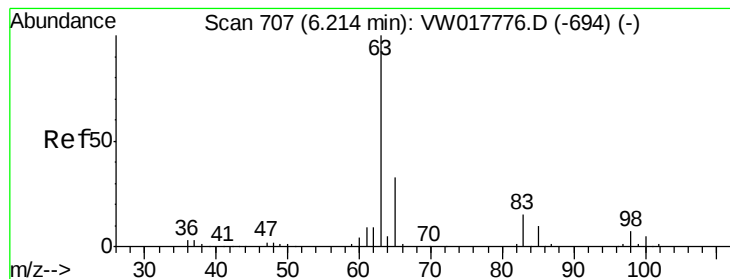
Ion Ratio Lower Upper

73 100

43 14.9 17.7 26.5#

57 21.5 17.0 25.4

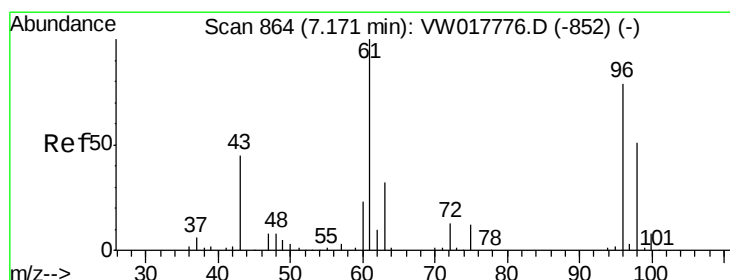
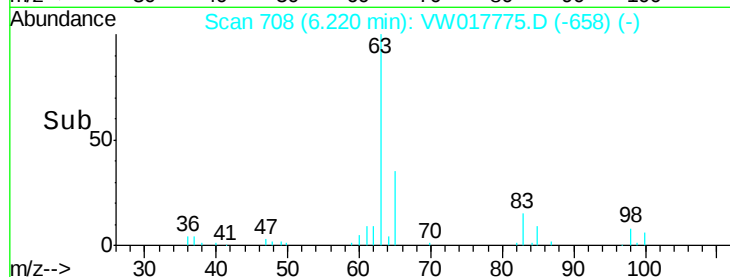
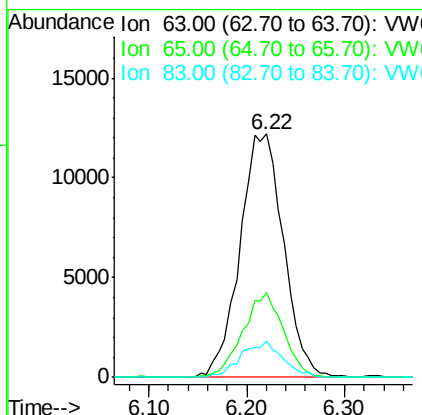
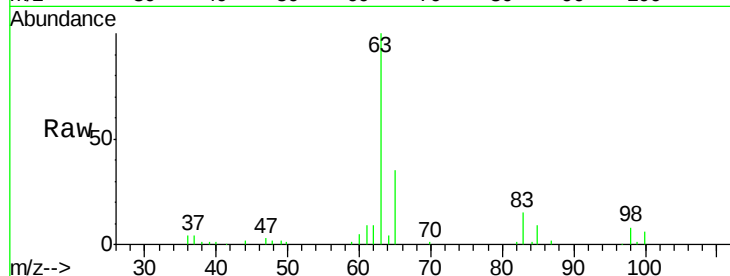




#19  
 1,1-Dichloroethane  
 Concen: 4.985 ug/L  
 RT: 6.22 min Scan# 708  
 Delta R.T. 0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

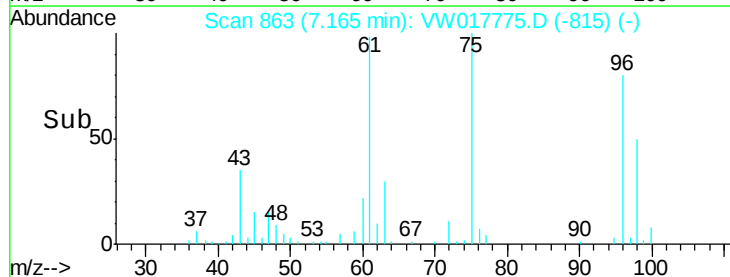
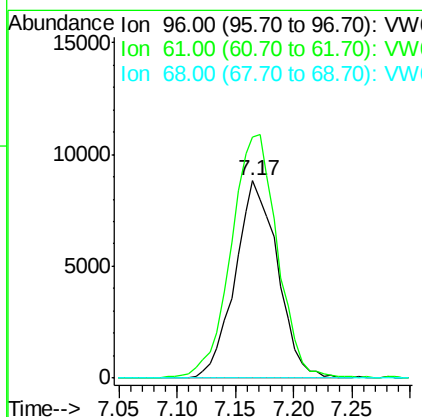
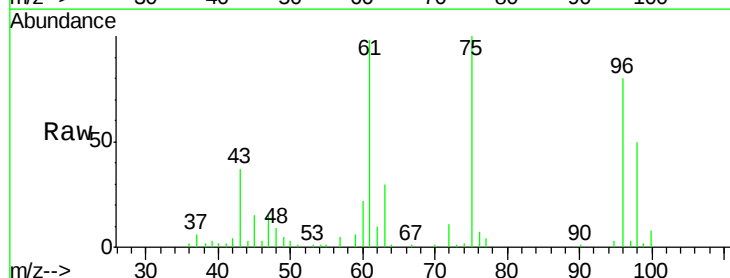
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

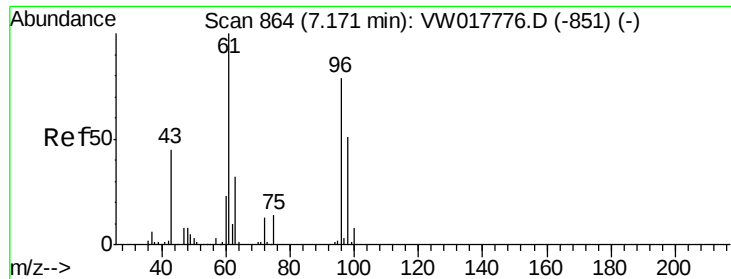
Tgt Ion: 63 Resp: 37646  
 Ion Ratio Lower Upper  
 63 100  
 65 34.7 22.9 42.5  
 83 15.1 10.2 19.0



#20  
 cis-1,2-Dichloroethene  
 Concen: 4.865 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

Tgt Ion: 96 Resp: 22427  
 Ion Ratio Lower Upper  
 96 100  
 61 122.3 88.5 164.3  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 11.542 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

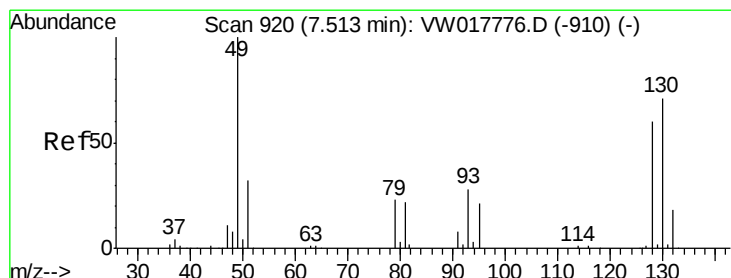
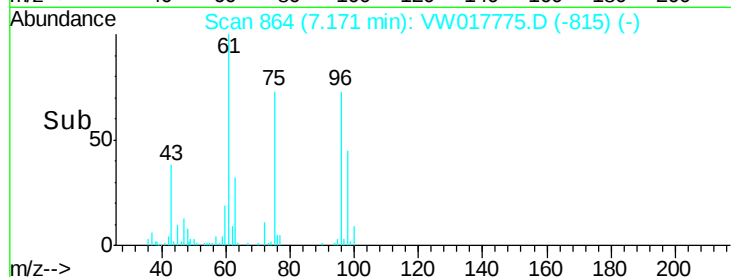
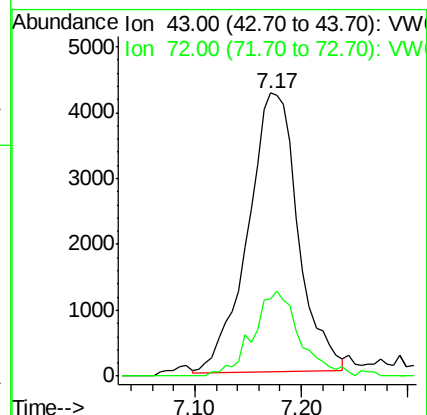
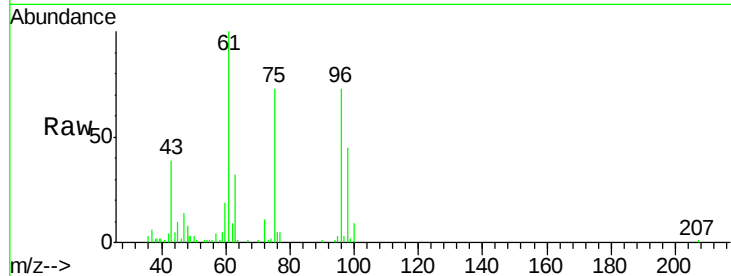
VSTD00504

Tgt Ion: 43 Resp: 13995

Ion Ratio Lower Upper

43 100

72 23.1 14.9 44.7



#23

Bromochloromethane

Concen: 4.736 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Tgt Ion: 128 Resp: 9887

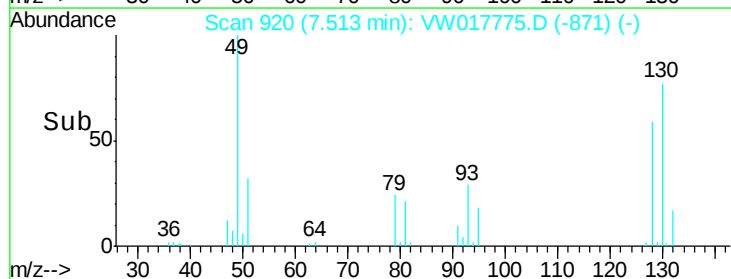
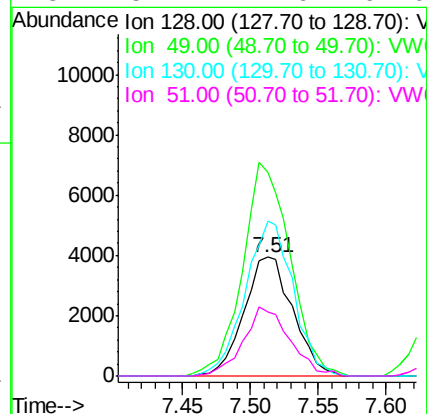
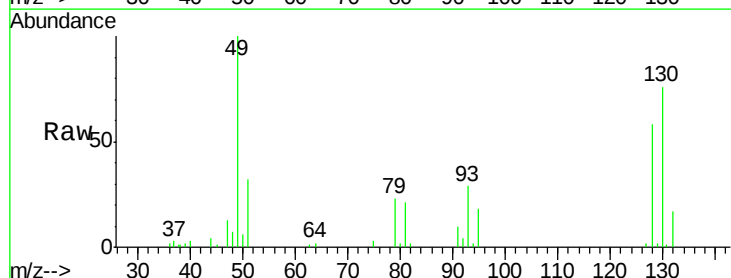
Ion Ratio Lower Upper

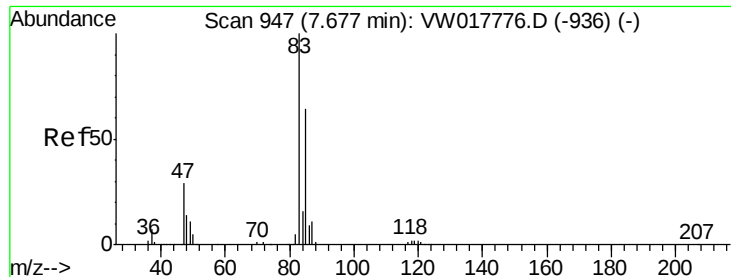
128 100

49 172.0 116.3 215.9

130 130.4 82.4 153.0

51 54.4 42.6 64.0

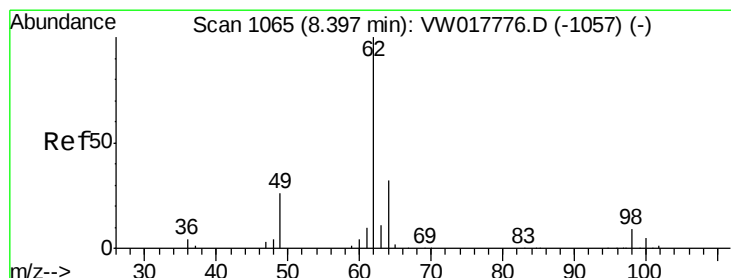
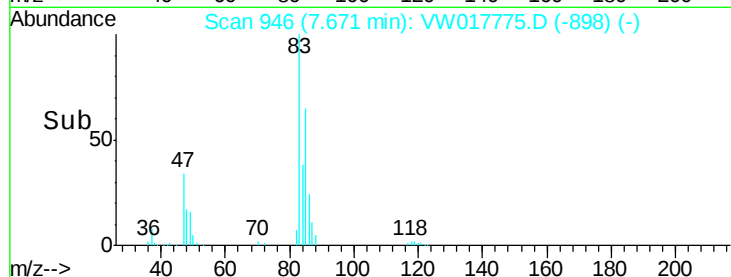
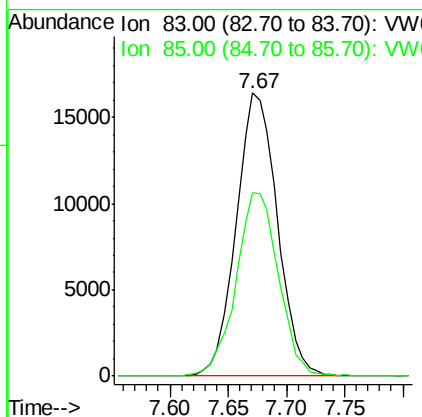
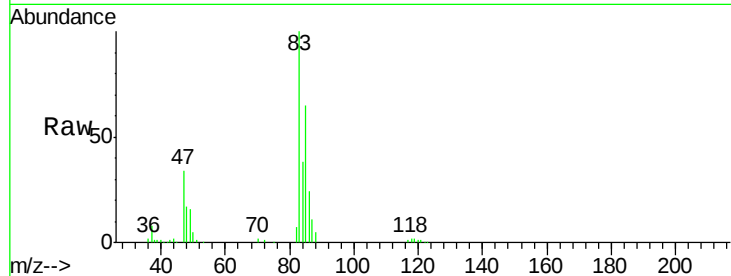




#25  
Chloroform  
Concen: 5.061 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

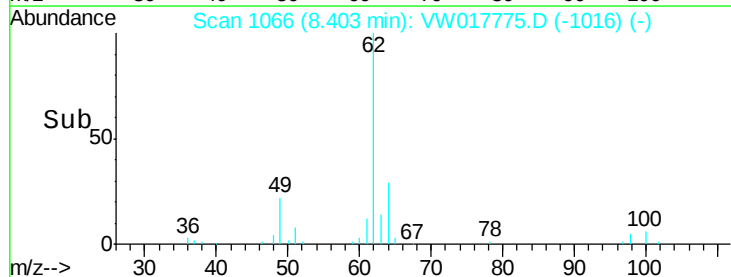
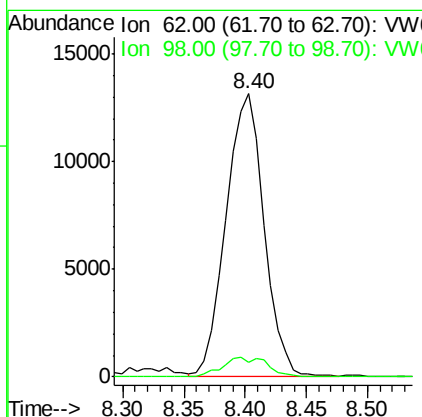
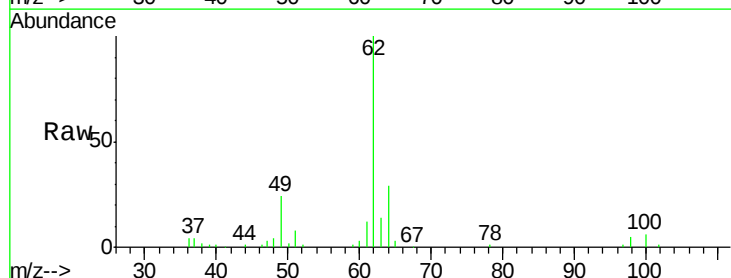
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

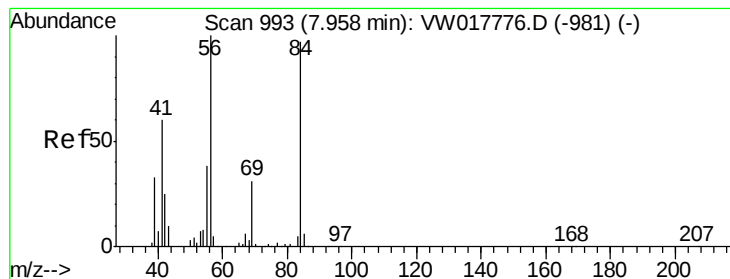
Tgt Ion: 83 Resp: 40327  
Ion Ratio Lower Upper  
83 100  
85 64.9 44.6 82.8



#27  
1,2-Dichloroethane  
Concen: 5.099 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion: 62 Resp: 28415  
Ion Ratio Lower Upper  
62 100  
98 5.1 6.9 10.3#





#29

Cyclohexane

Concen: 4.622 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

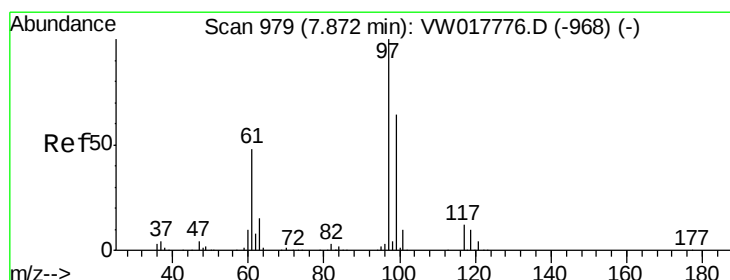
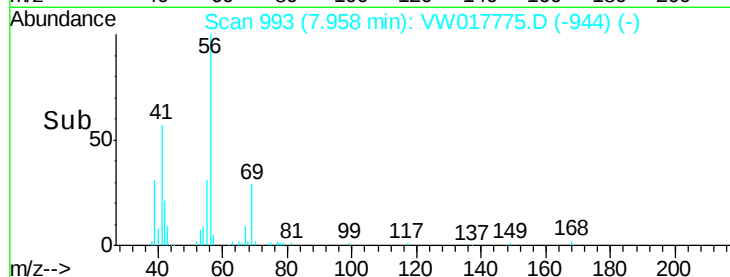
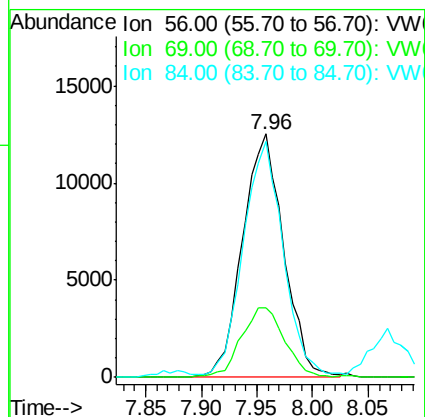
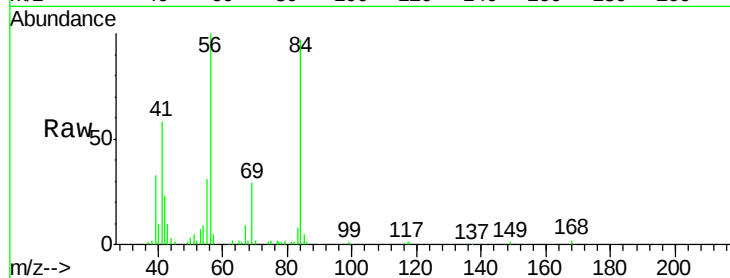
Tgt Ion: 56 Resp: 32188

Ion Ratio Lower Upper

56 100

69 30.3 24.5 36.7

84 95.2 75.0 112.4



#30

1,1,1-Trichloroethane

Concen: 4.746 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

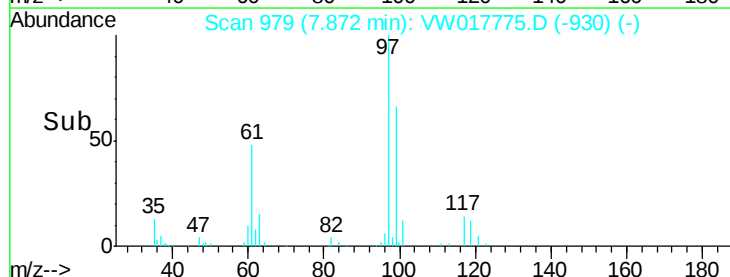
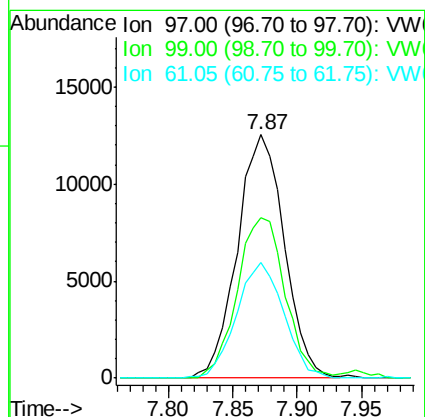
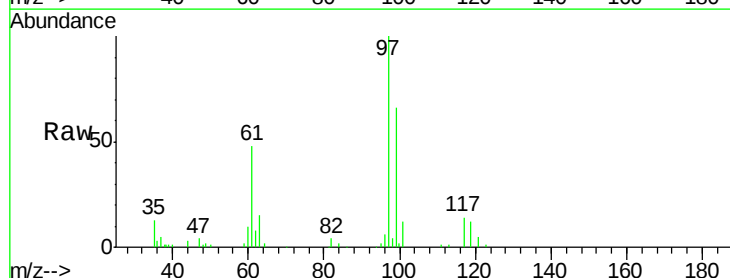
Tgt Ion: 97 Resp: 31742

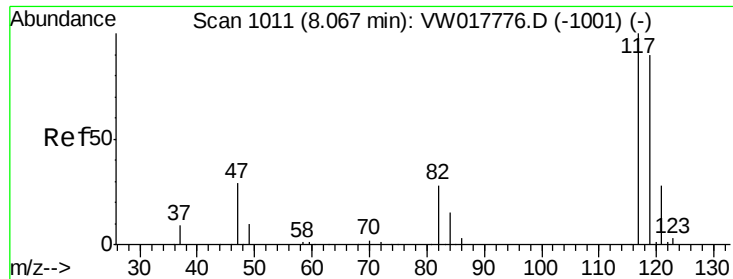
Ion Ratio Lower Upper

97 100

99 67.0 51.4 77.2

61 48.0 37.8 56.6





#31

Carbon tetrachloride

Concen: 4.578 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

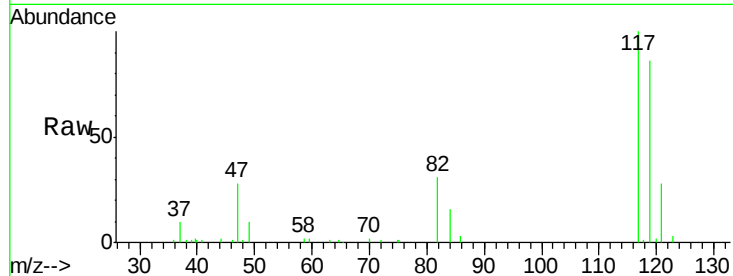
VSTD00504

Tgt Ion:117 Resp: 29262

Ion Ratio Lower Upper

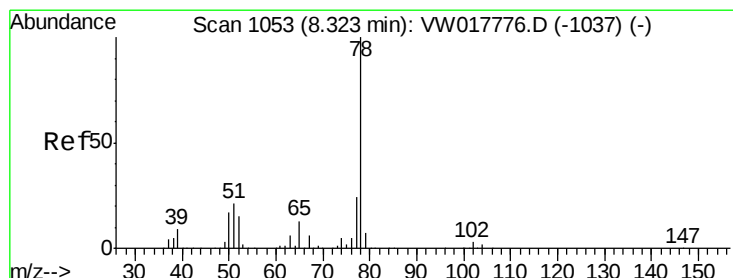
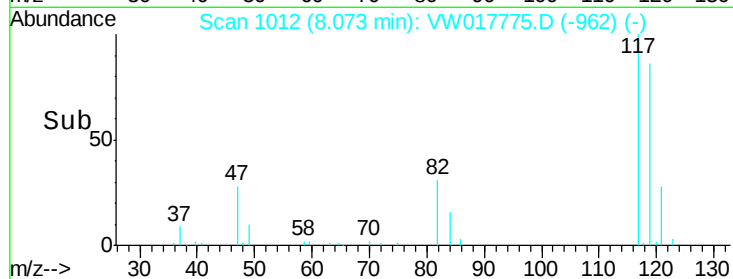
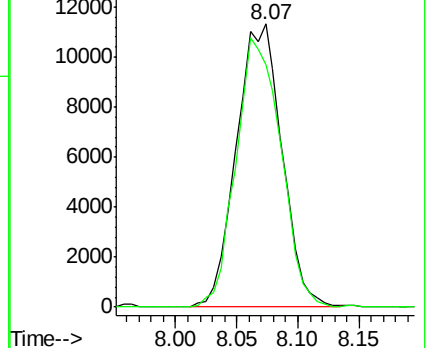
117 100

119 93.4 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.806 ug/L

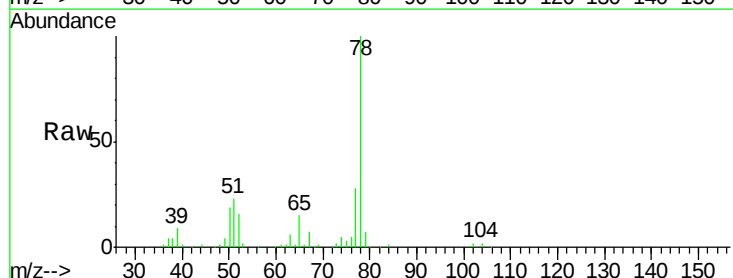
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

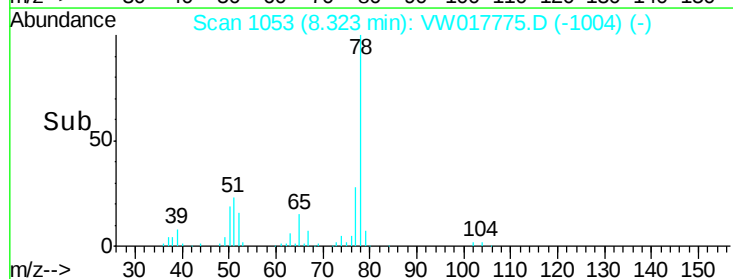
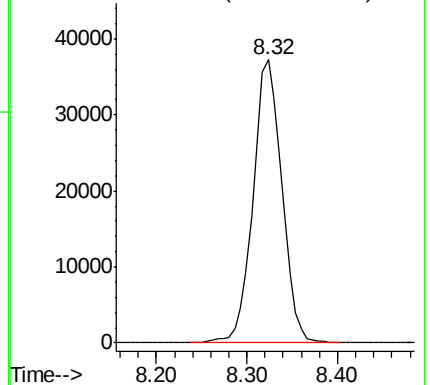
Lab File: VW017775.D

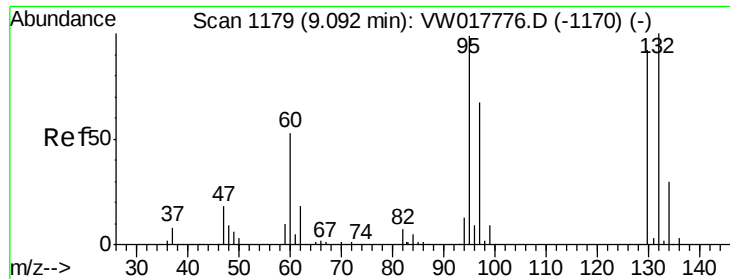
Acq: 30 Dec 2020 11:07

Tgt Ion: 78 Resp: 82022



Abundance Ion 78.00 (77.70 to 78.70): VW





#34

Trichloroethene

Concen: 4.780 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

Tgt Ion: 95 Resp: 22133

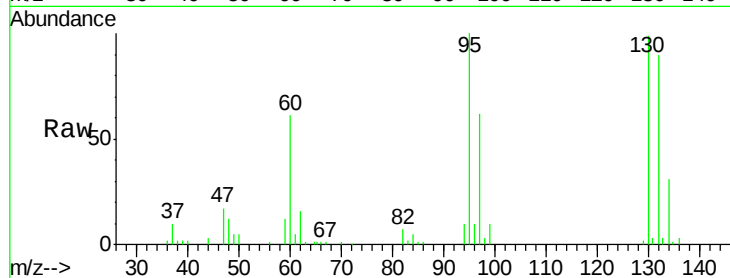
Ion Ratio Lower Upper

95 100

97 61.8 47.3 87.8

132 90.0 71.0 131.8

130 99.0 65.1 120.9

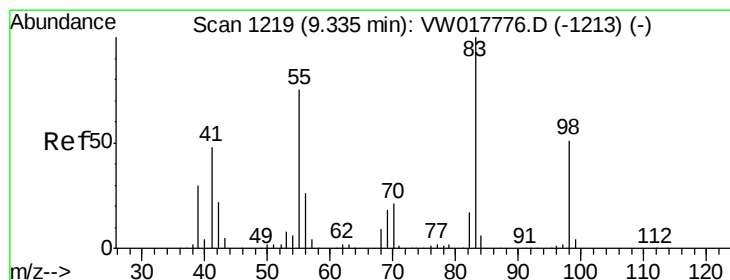
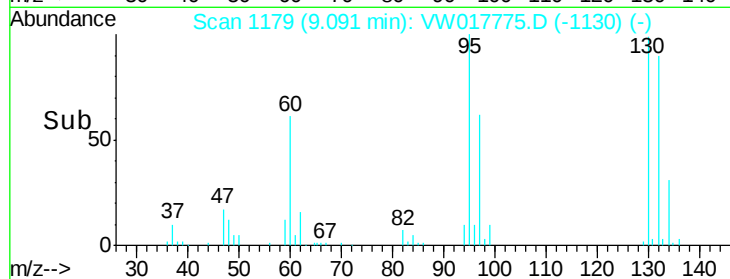
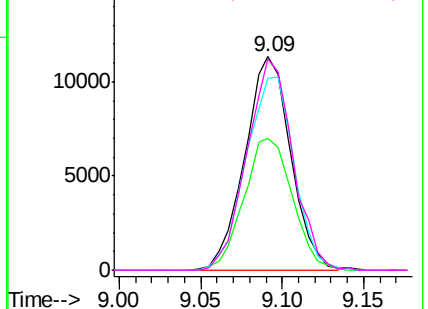


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 4.628 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

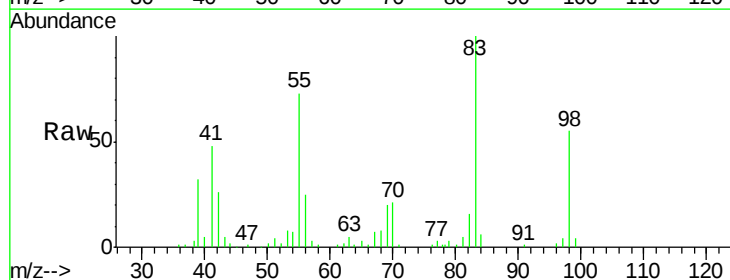
Tgt Ion: 83 Resp: 36772

Ion Ratio Lower Upper

83 100

55 73.6 58.9 88.3

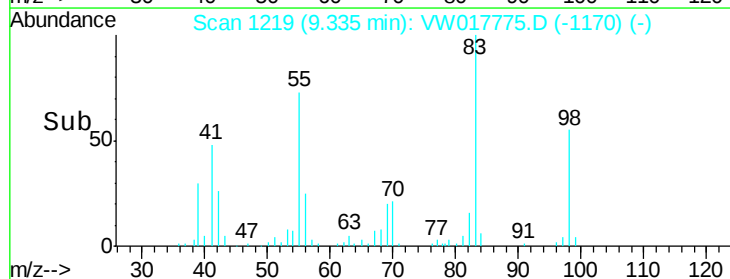
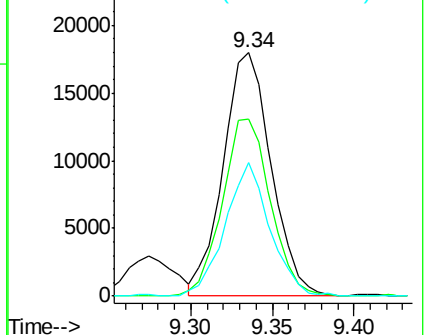
98 51.1 40.1 60.1

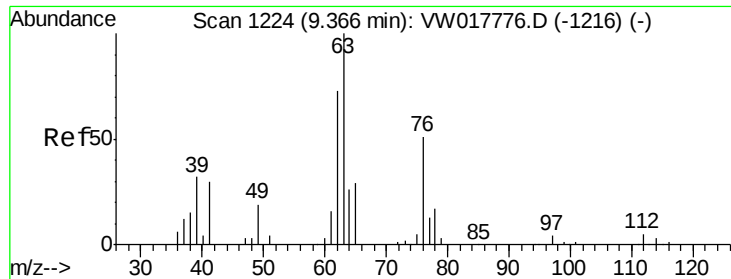


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

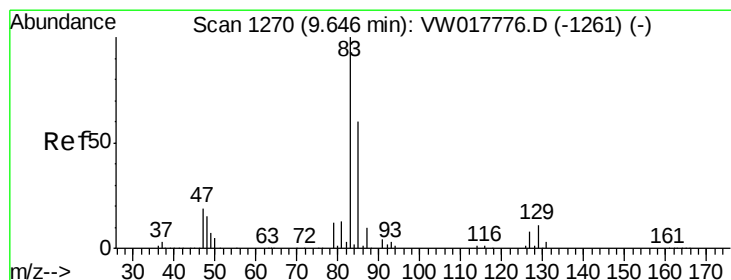
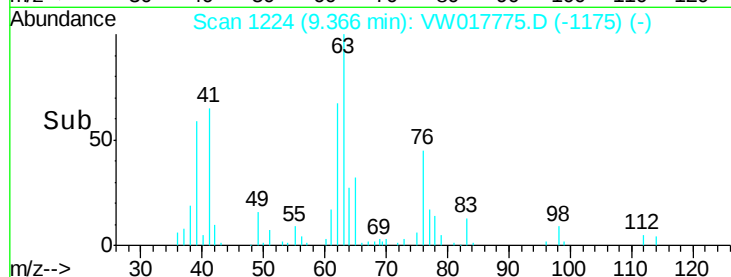
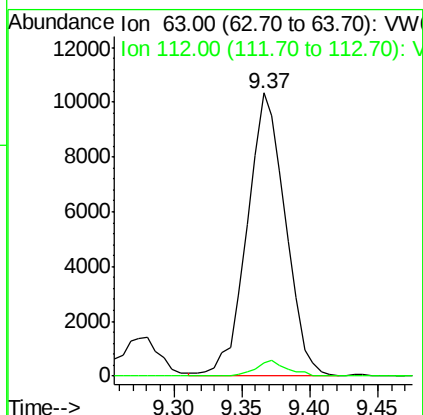
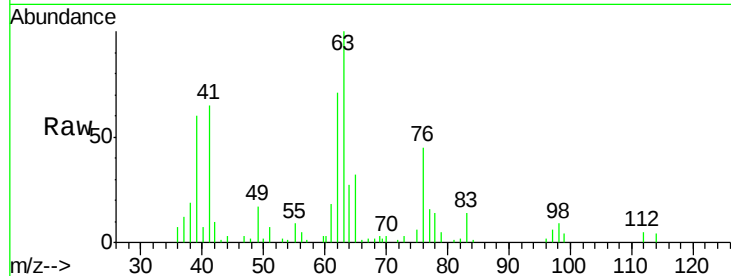




#37  
 1,2-Dichloropropane  
 Concen: 4.929 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

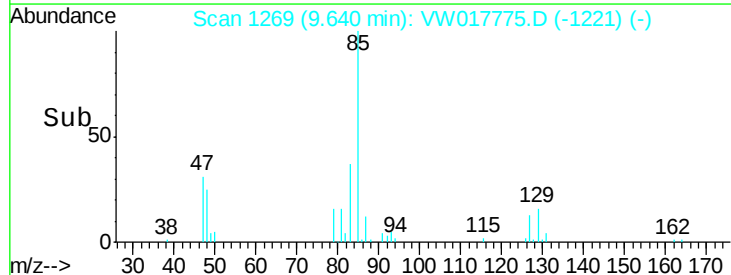
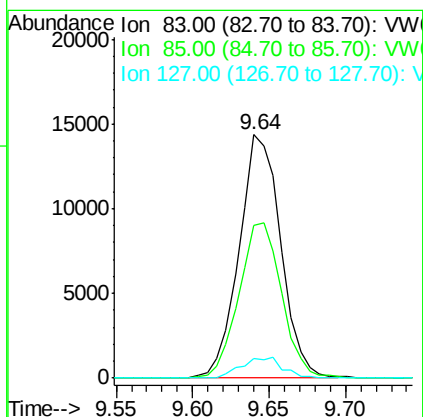
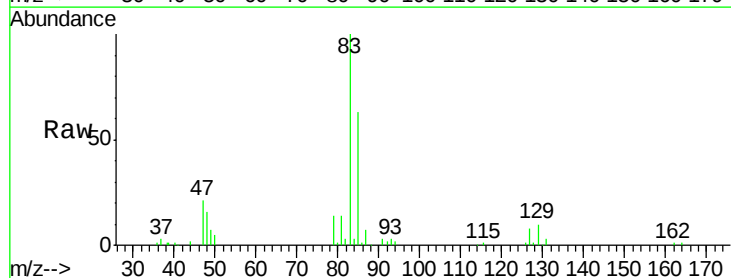
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

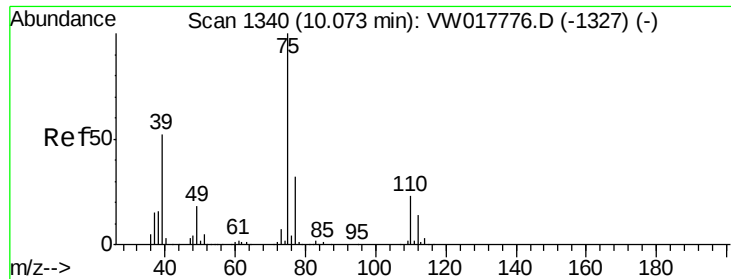
Tgt Ion: 63 Resp: 20426  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.9 5.9



#38  
 Bromodichloromethane  
 Concen: 4.668 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. -0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

Tgt Ion: 83 Resp: 27191  
 Ion Ratio Lower Upper  
 83 100  
 85 62.9 42.3 78.5  
 127 8.0 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 4.385 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

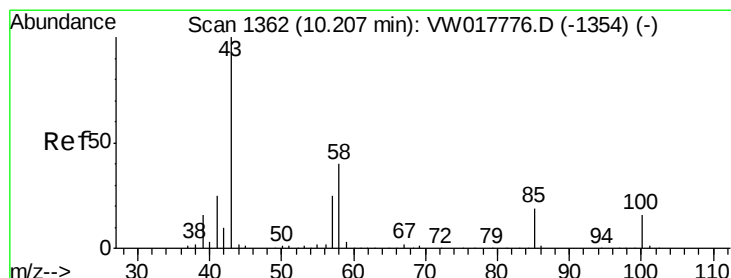
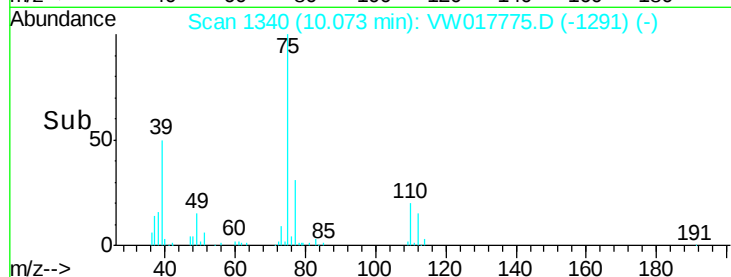
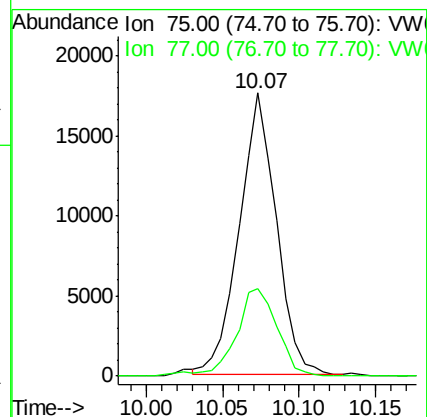
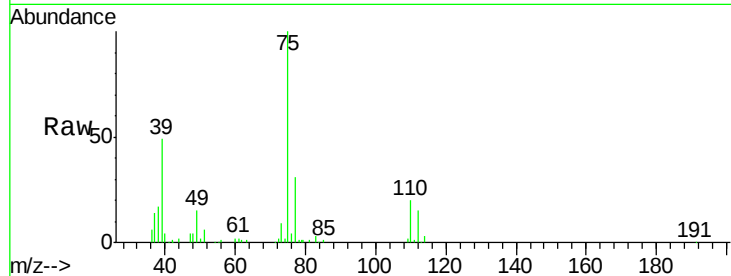
VSTD00504

Tgt Ion: 75 Resp: 29628

Ion Ratio Lower Upper

75 100

77 31.0 22.6 42.0



#40

4-Methyl-2-pentanone

Concen: 10.086 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

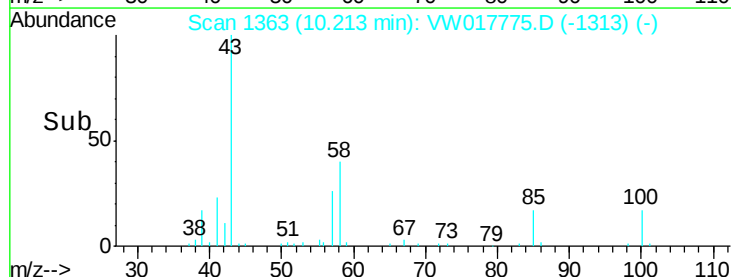
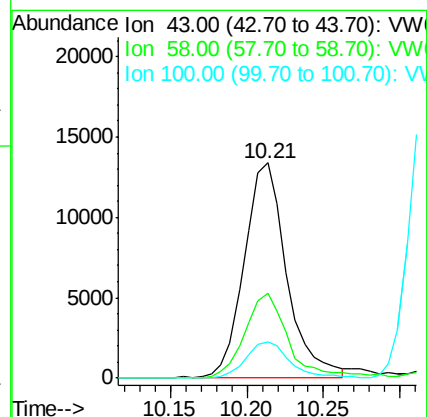
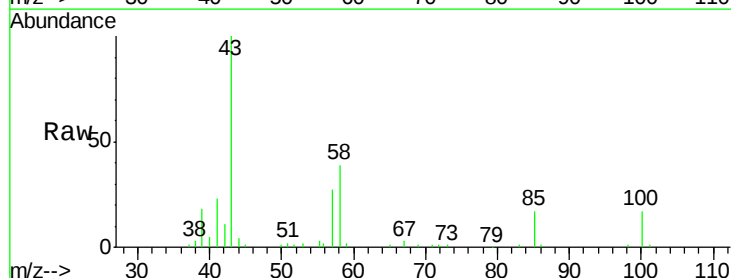
Tgt Ion: 43 Resp: 25926

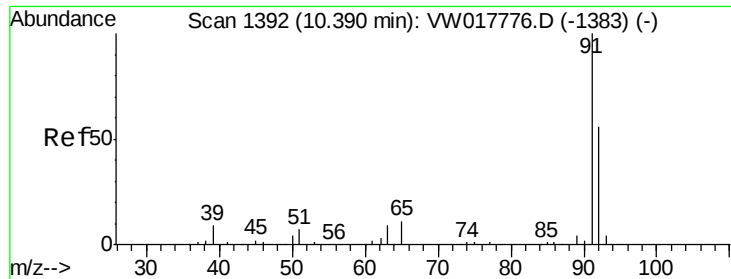
Ion Ratio Lower Upper

43 100

58 40.2 31.0 46.4

100 17.6 13.0 19.6





#42

Toluene

Concen: 4.683 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampled :

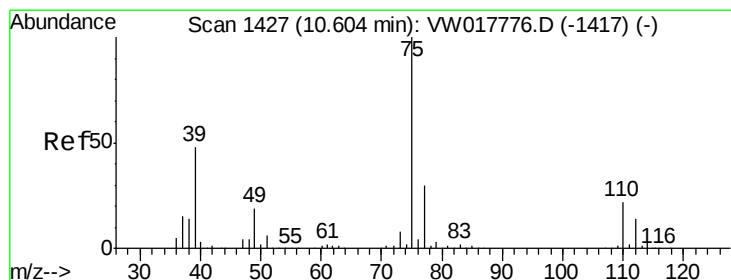
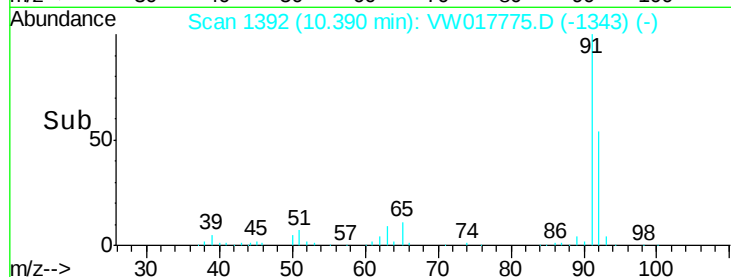
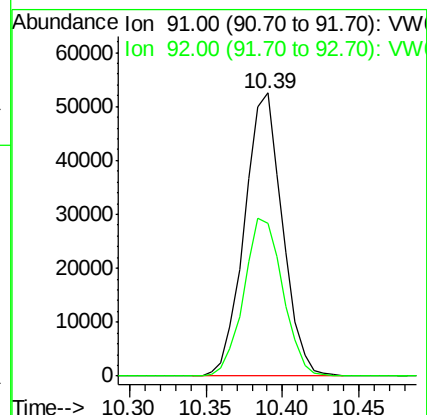
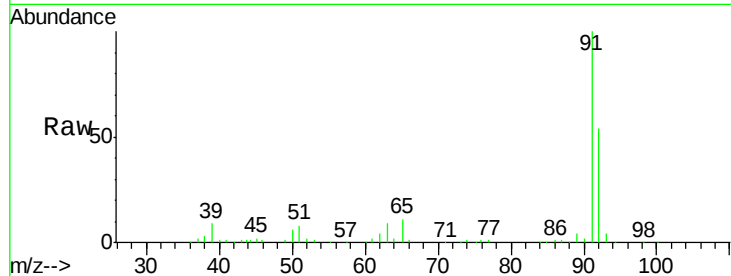
VSTD00504

Tgt Ion: 91 Resp: 90203

Ion Ratio Lower Upper

91 100

92 53.8 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 4.392 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW017775.D

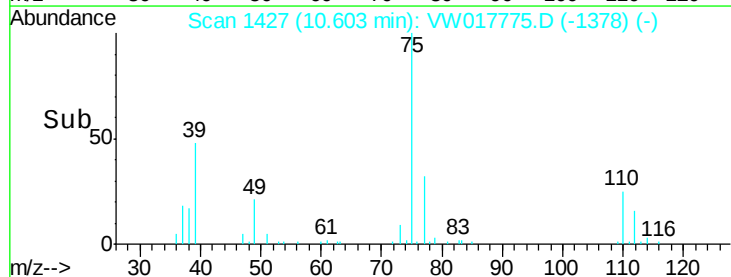
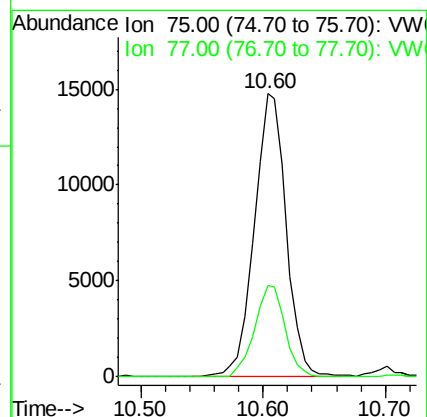
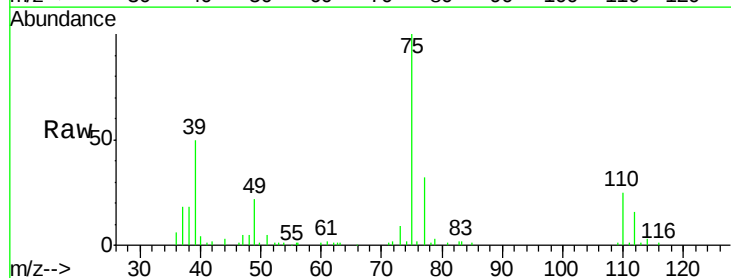
Acq: 30 Dec 2020 11:07

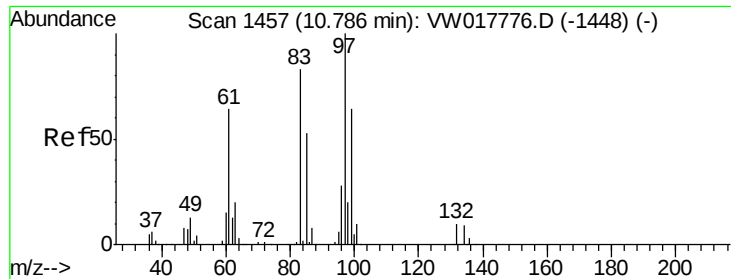
Tgt Ion: 75 Resp: 26826

Ion Ratio Lower Upper

75 100

77 32.2 21.1 39.1





#45

1,1,2-Trichloroethane

Concen: 4.816 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

Tgt Ion: 97 Resp: 16048

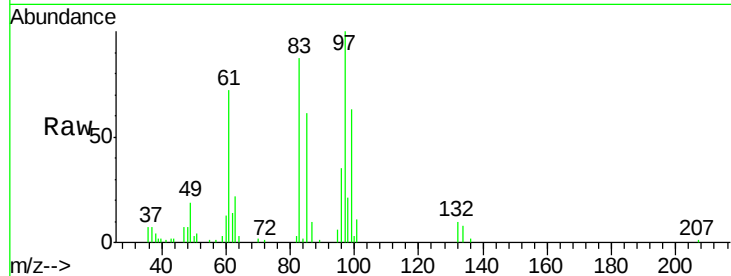
Ion Ratio Lower Upper

97 100

99 62.8 45.1 83.7

83 87.4 58.1 107.9

85 60.7 37.3 69.3



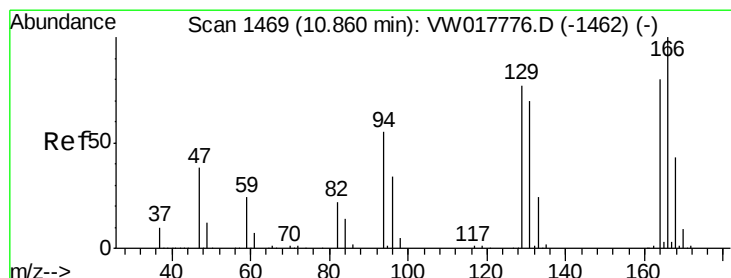
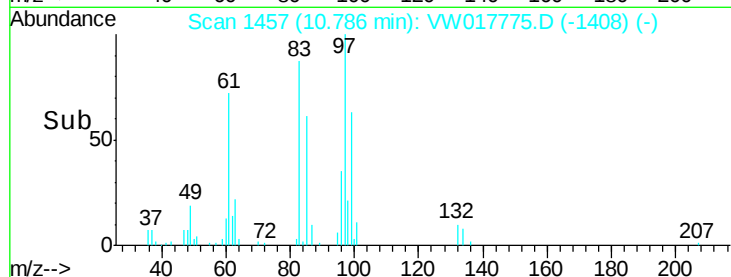
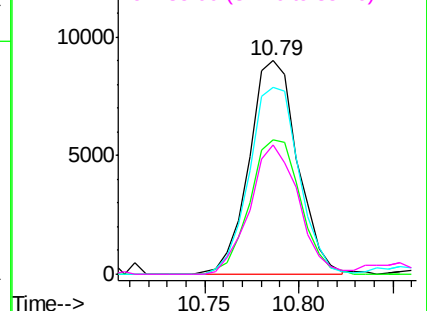
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#46

Tetrachloroethene

Concen: 4.600 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Tgt Ion: 164 Resp: 16377

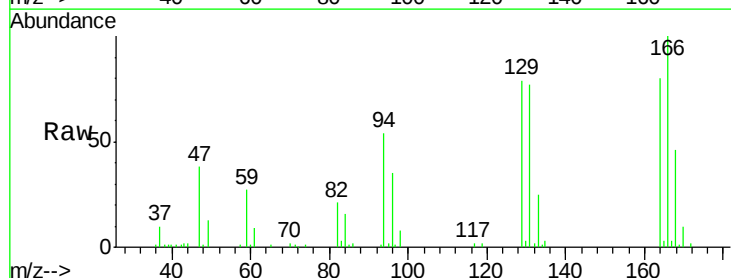
Ion Ratio Lower Upper

164 100

129 98.8 66.7 123.9

131 96.0 61.1 113.5

166 124.6 87.0 161.6



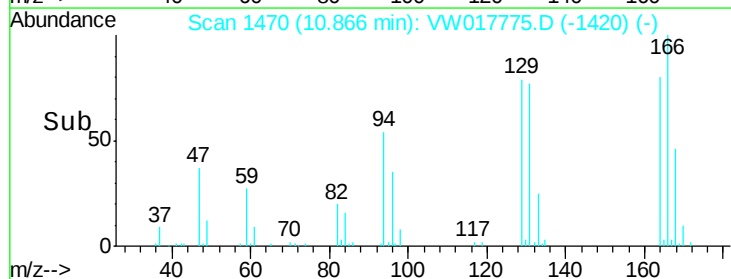
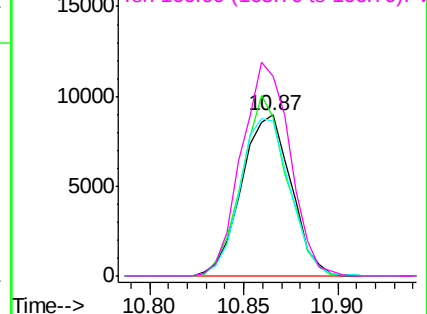
Abundance

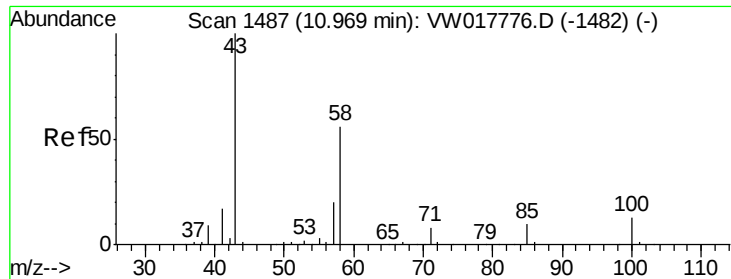
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

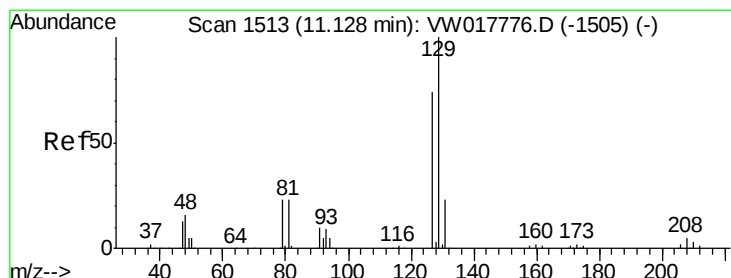
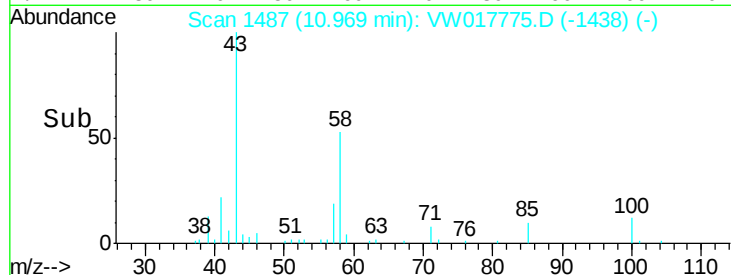
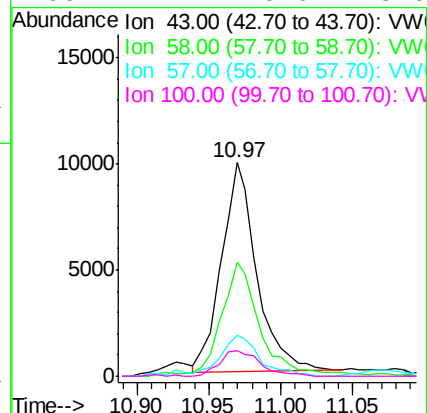
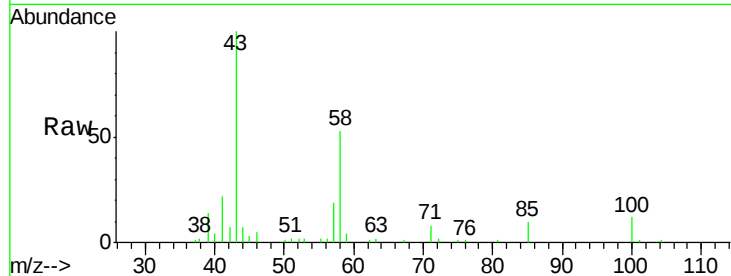




#48  
2-Hexanone  
Concen: 9.429 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

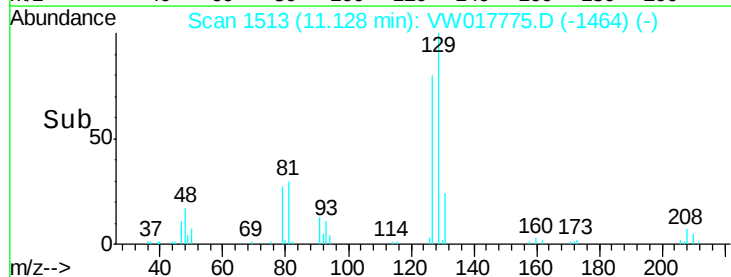
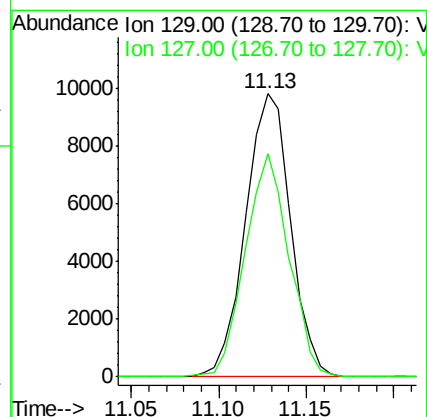
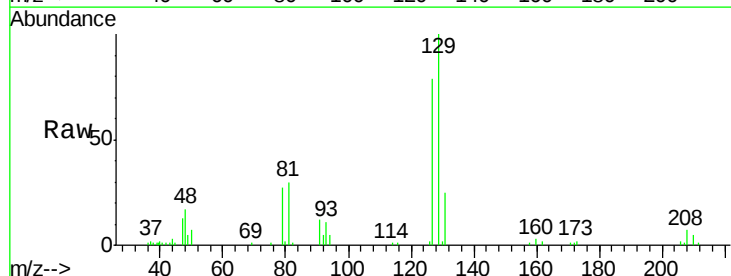
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

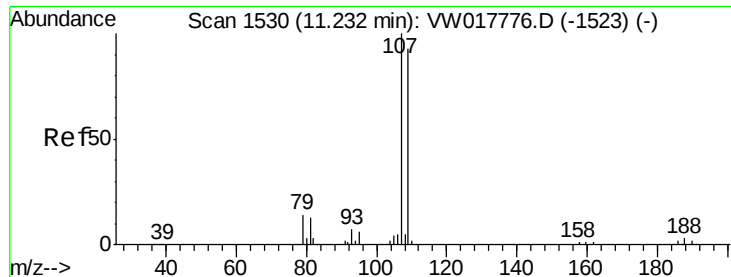
Tgt Ion: 43 Resp: 16766  
Ion Ratio Lower Upper  
43 100  
58 53.6 42.7 64.1  
57 21.3 15.8 23.8  
100 14.2 10.0 15.0



#49  
Dibromochloromethane  
Concen: 4.465 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion: 129 Resp: 17616  
Ion Ratio Lower Upper  
129 100  
127 78.9 51.7 95.9

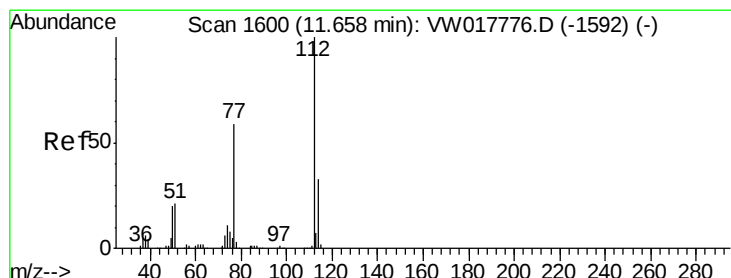
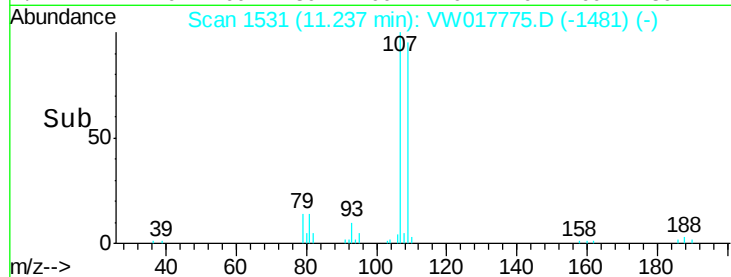
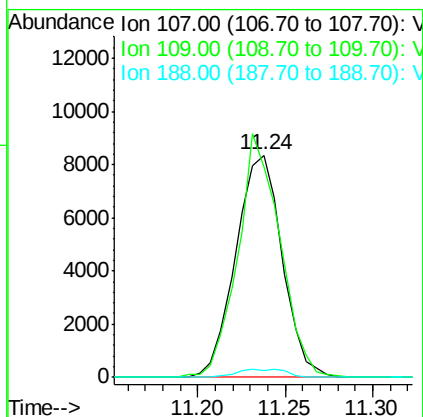
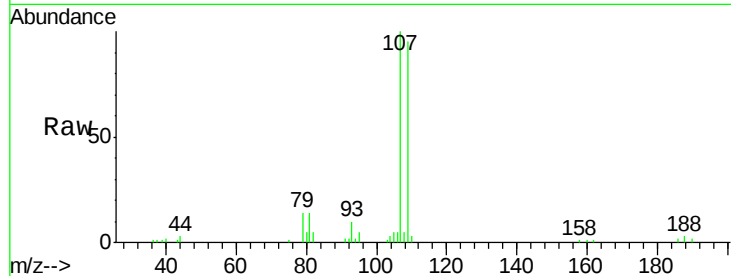




#50  
1,2-Dibromoethane  
Concen: 4.726 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. 0.01 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

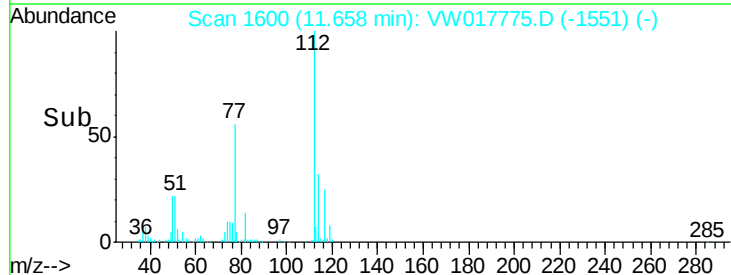
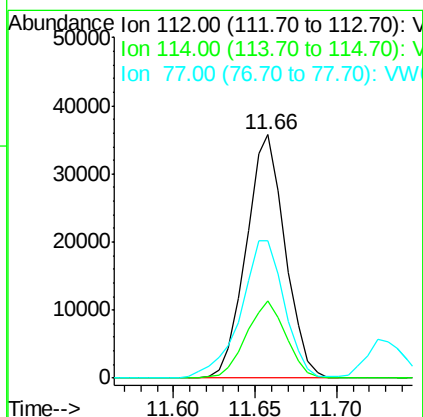
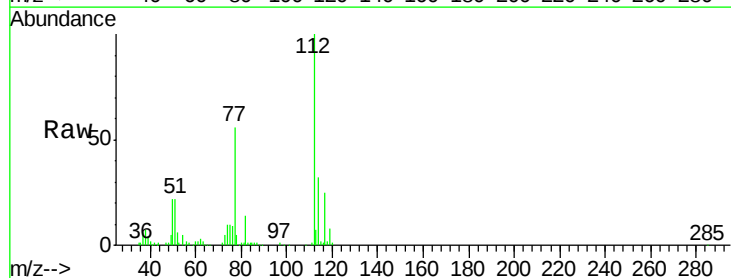
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

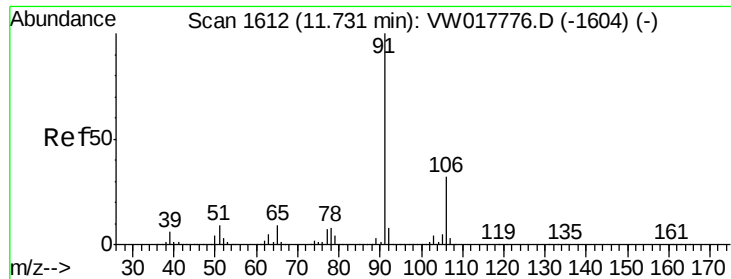
Tgt Ion:107 Resp: 15430  
Ion Ratio Lower Upper  
107 100  
109 94.7 65.4 121.4  
188 3.0 2.6 4.0



#51  
Chlorobenzene  
Concen: 4.880 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion:112 Resp: 59300  
Ion Ratio Lower Upper  
112 100  
114 31.5 23.4 43.6  
77 56.4 47.6 71.4

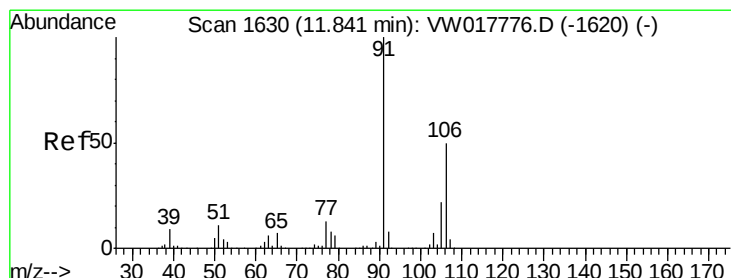
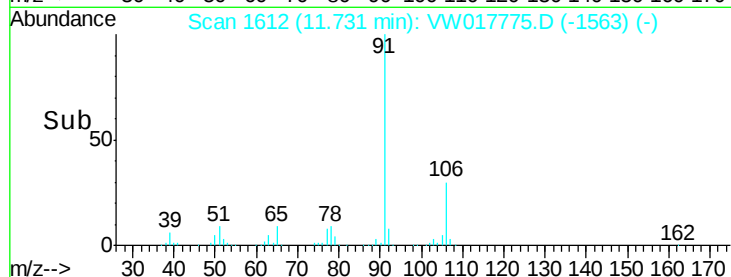
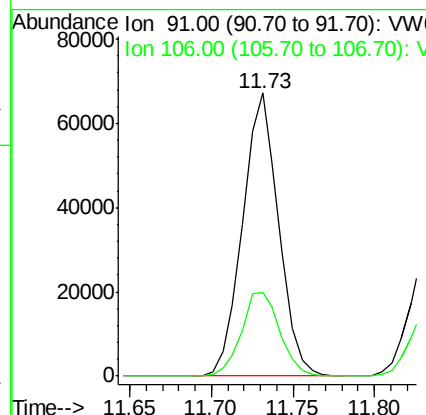
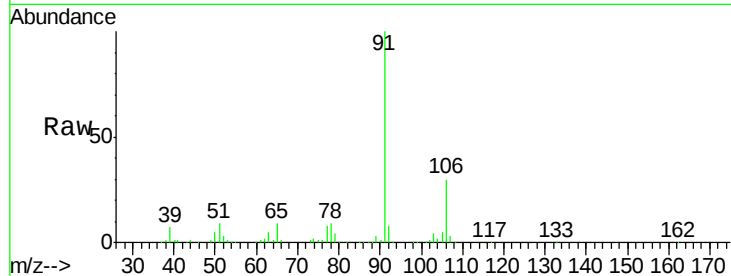




#52  
Ethylbenzene  
Concen: 4.729 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

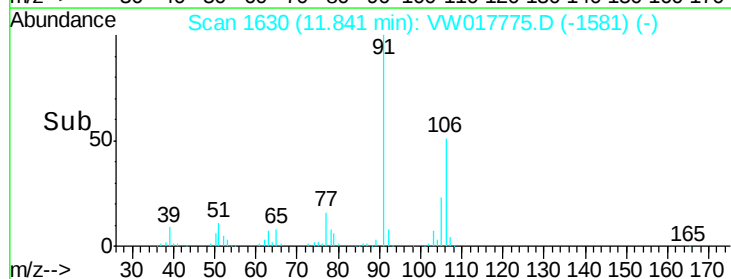
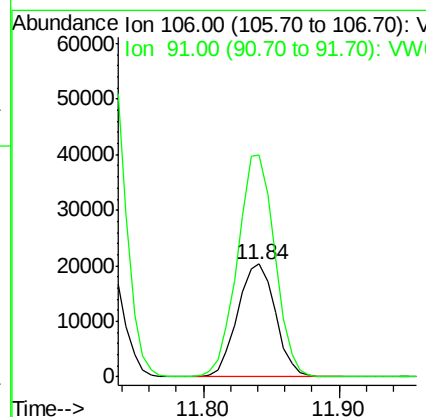
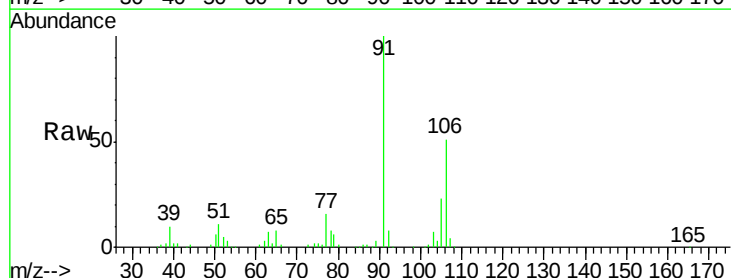
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

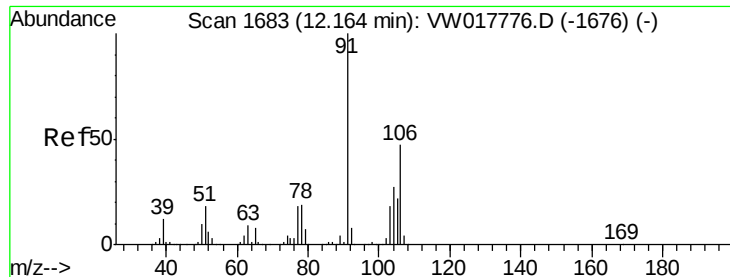
Tgt Ion: 91 Resp: 103448  
Ion Ratio Lower Upper  
91 100  
106 29.7 22.5 41.7



#53  
m,p-Xylene  
Concen: 4.699 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion: 106 Resp: 39501  
Ion Ratio Lower Upper  
106 100  
91 196.8 141.3 262.3

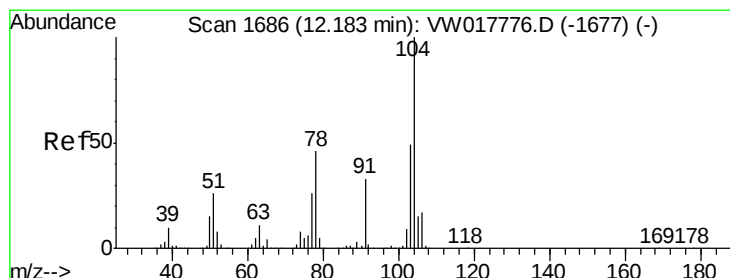
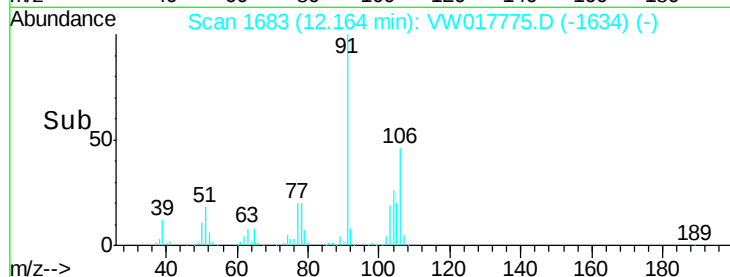
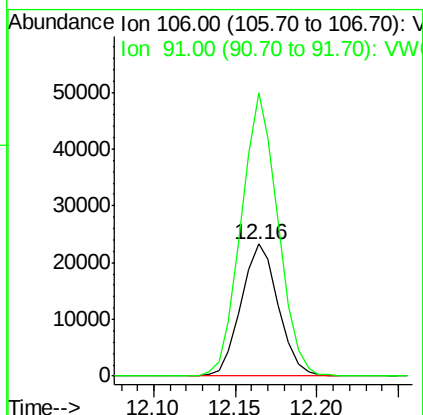
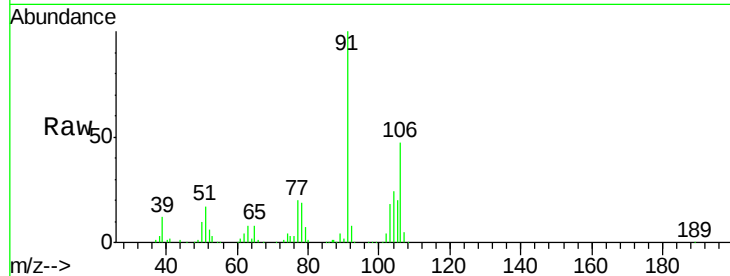




#54  
o-Xylene  
Concen: 4.614 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

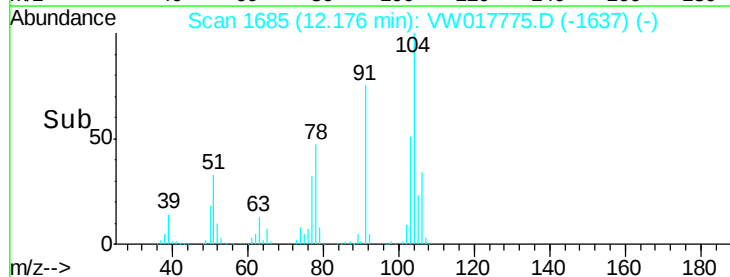
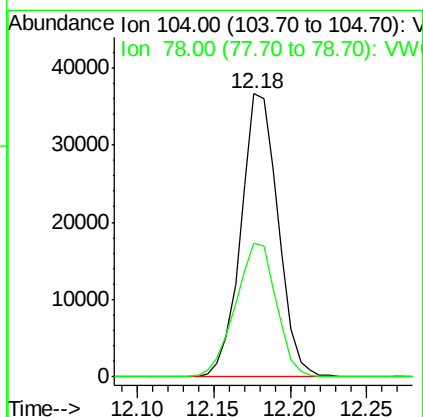
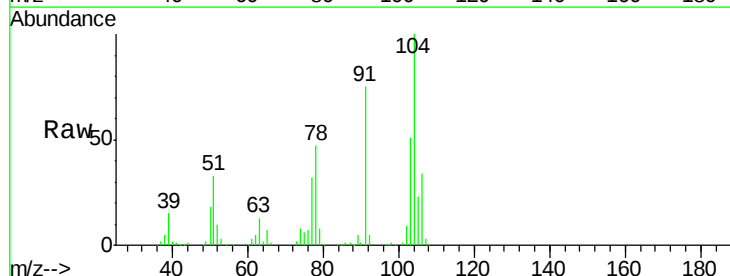
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

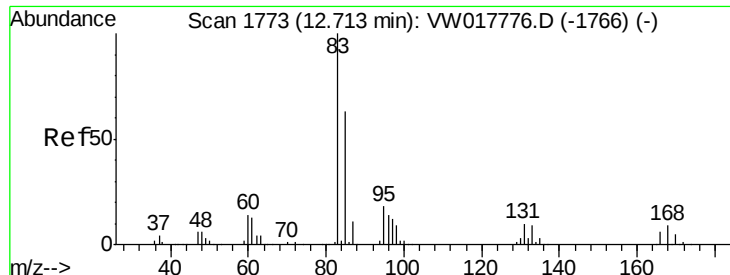
Tgt Ion:106 Resp: 37063  
Ion Ratio Lower Upper  
106 100  
91 214.6 150.0 278.6



#55  
Styrene  
Concen: 4.519 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.01 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion:104 Resp: 61790  
Ion Ratio Lower Upper  
104 100  
78 47.4 32.5 60.3

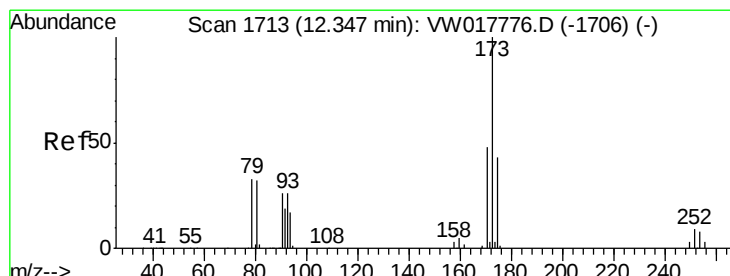
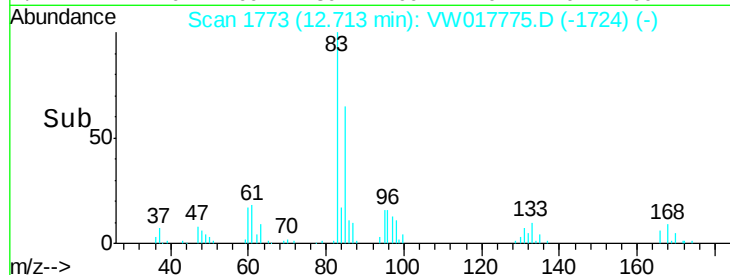
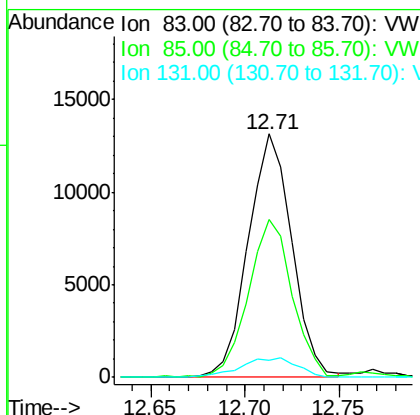
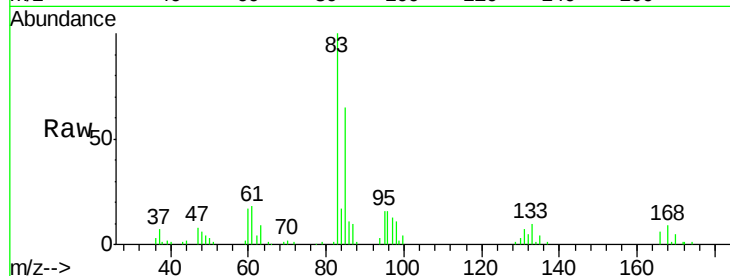




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 5.202 ug/L  
 RT: 12.71 min Scan# 1773  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

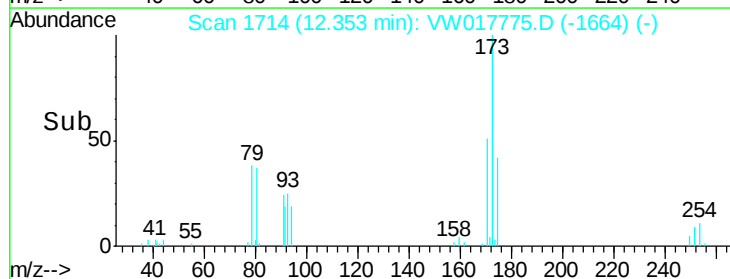
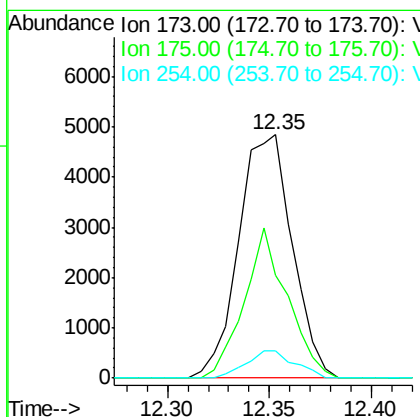
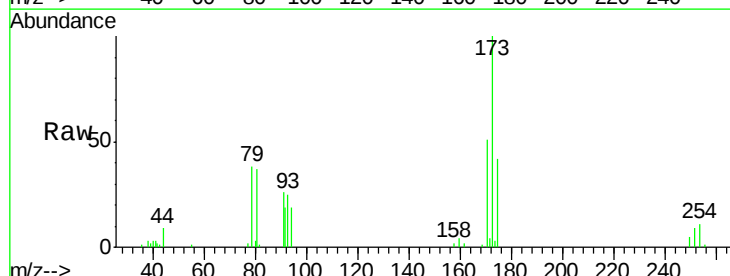
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

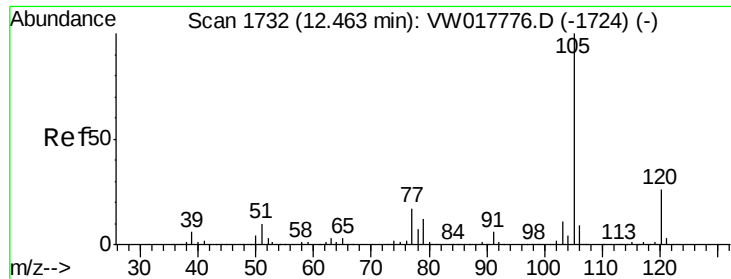
Tgt Ion: 83 Resp: 21109  
 Ion Ratio Lower Upper  
 83 100  
 85 64.7 44.4 82.4  
 131 7.2 8.2 12.4#



#59  
 Bromoform  
 Concen: 4.184 ug/L  
 RT: 12.35 min Scan# 1714  
 Delta R.T. 0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

Tgt Ion: 173 Resp: 8835  
 Ion Ratio Lower Upper  
 173 100  
 175 49.8 37.5 56.3  
 254 10.2 7.0 10.4





#60

Isopropylbenzene

Concen: 4.786 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

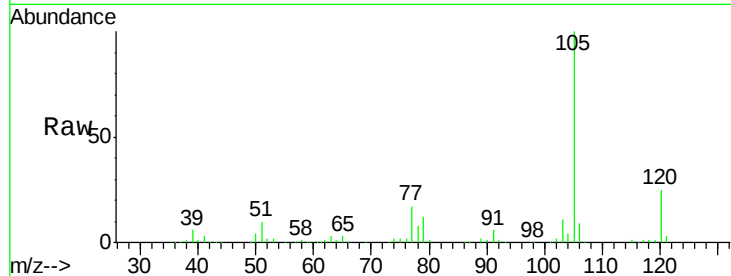
Tgt Ion: 105 Resp: 101425

Ion Ratio Lower Upper

105 100

120 25.6 21.1 31.7

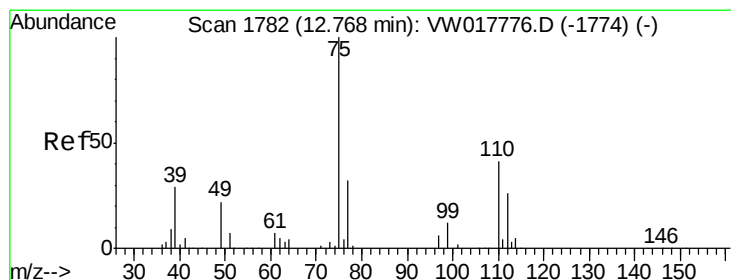
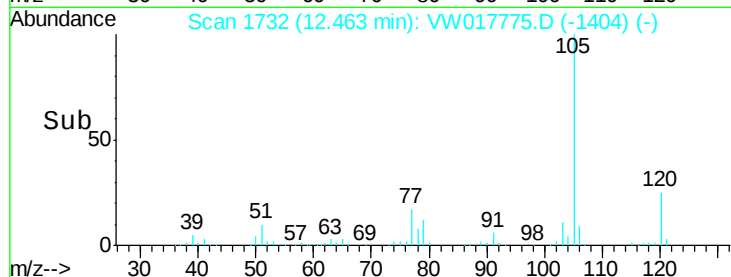
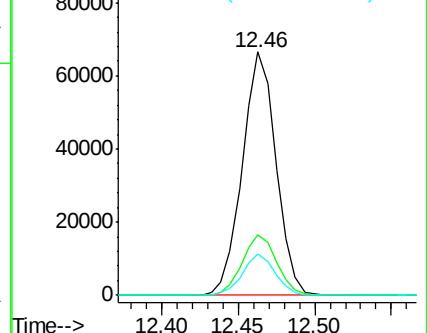
77 16.4 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 5.087 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

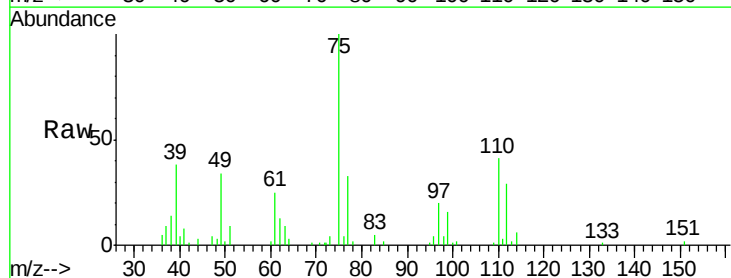
Tgt Ion: 75 Resp: 15161

Ion Ratio Lower Upper

75 100

77 36.6 25.3 37.9

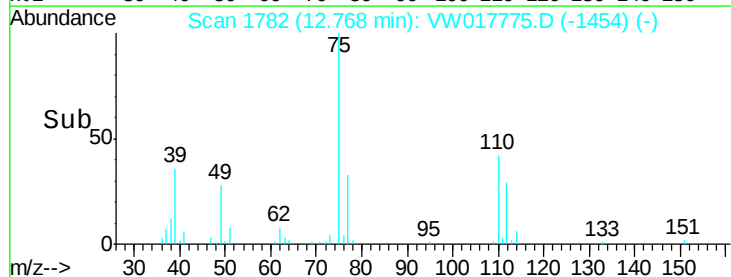
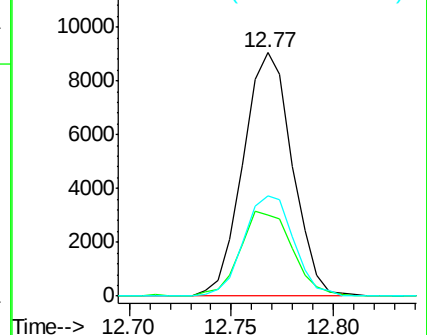
110 41.5 32.6 48.8

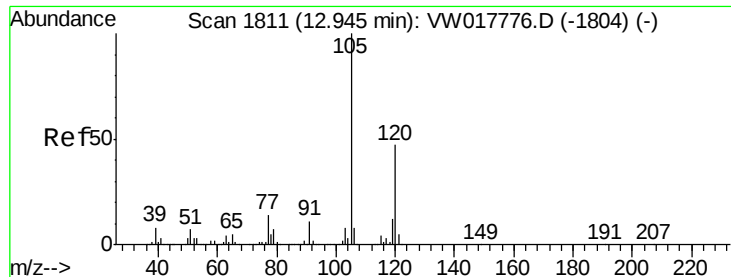


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 110.00 (109.70 to 110.70): V

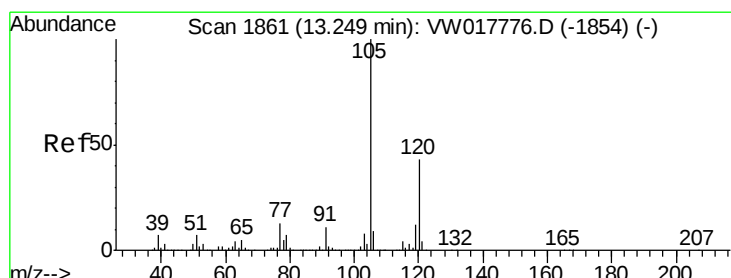
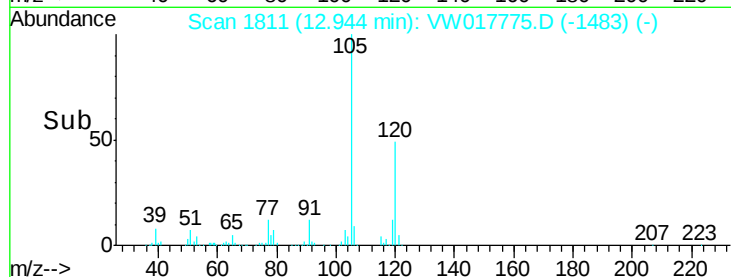
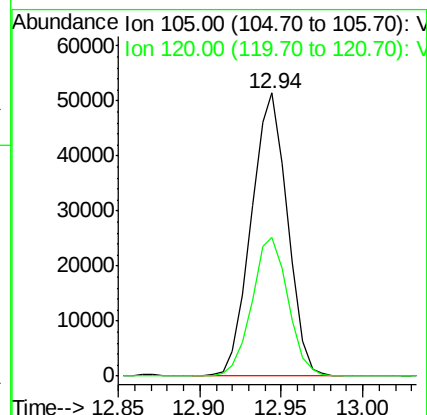
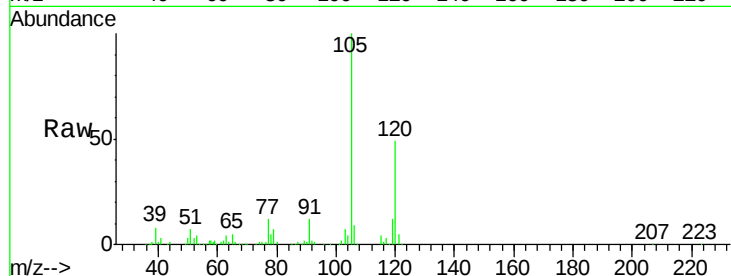




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.595 ug/L  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

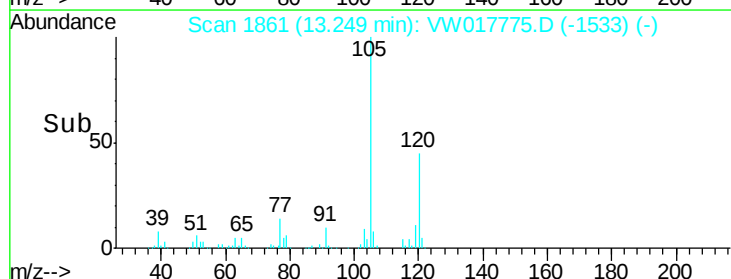
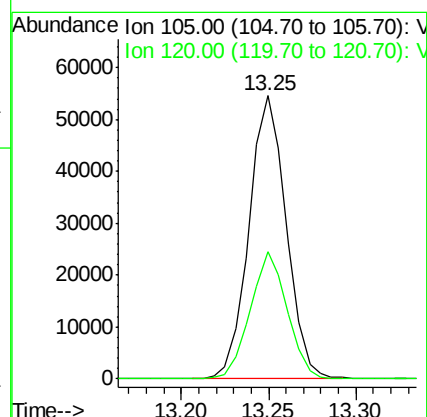
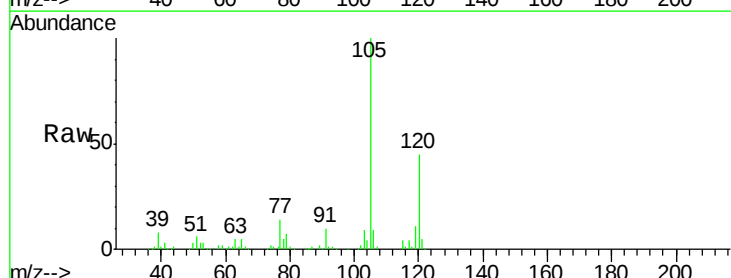
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

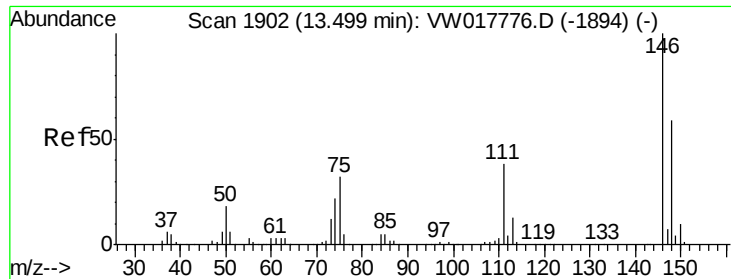
Tgt Ion:105 Resp: 79260  
 Ion Ratio Lower Upper  
 105 100  
 120 49.1 39.0 58.6



#63  
 1,2,4-Trimethylbenzene  
 Concen: 4.625 ug/L  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

Tgt Ion:105 Resp: 81070  
 Ion Ratio Lower Upper  
 105 100  
 120 44.6 35.6 53.4





#64

1,3-Dichlorobenzene

Concen: 4.819 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

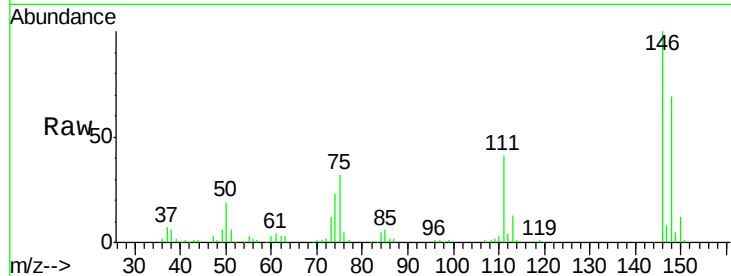
Tgt Ion:146 Resp: 44310

Ion Ratio Lower Upper

146 100

111 41.1 26.7 49.7

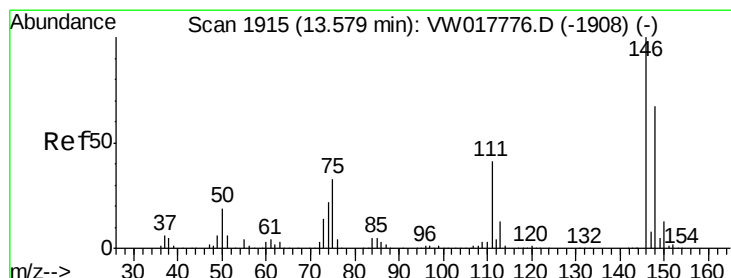
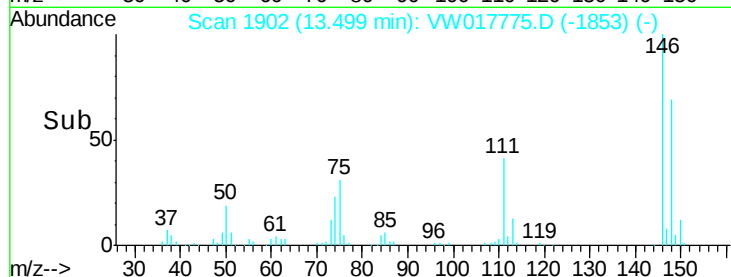
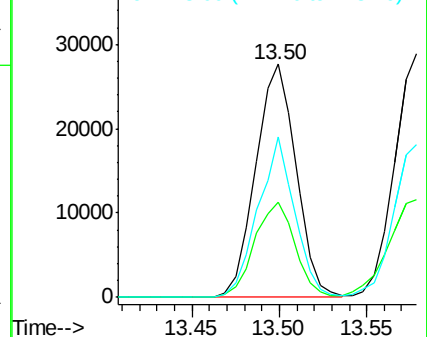
148 69.0 41.1 76.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 4.907 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW017775.D

Acq: 30 Dec 2020 11:07

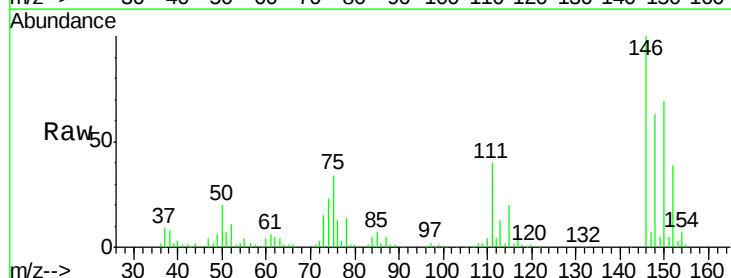
Tgt Ion:146 Resp: 44712

Ion Ratio Lower Upper

146 100

111 40.2 28.8 53.4

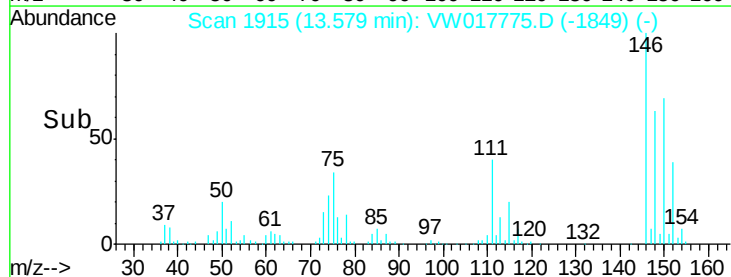
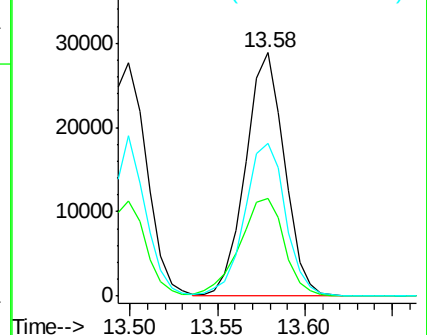
148 62.7 46.8 87.0

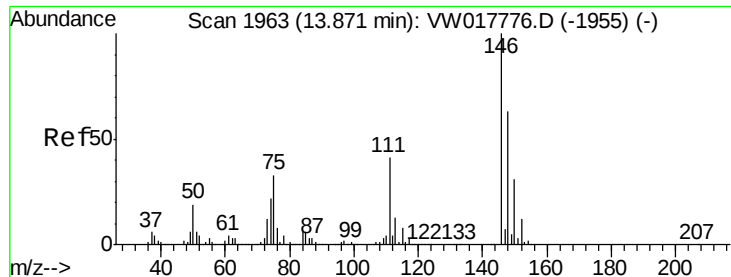


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

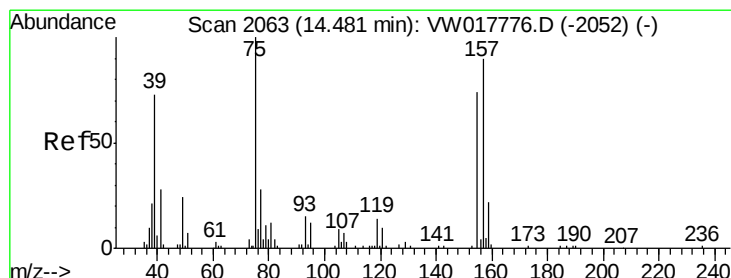
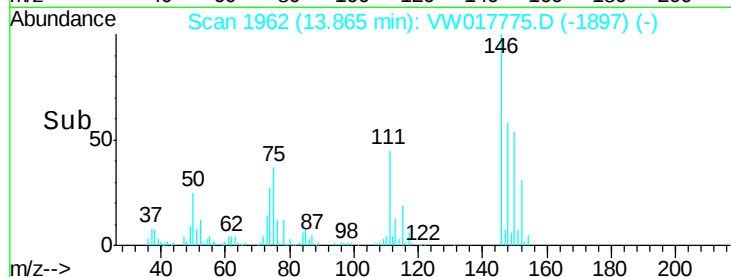
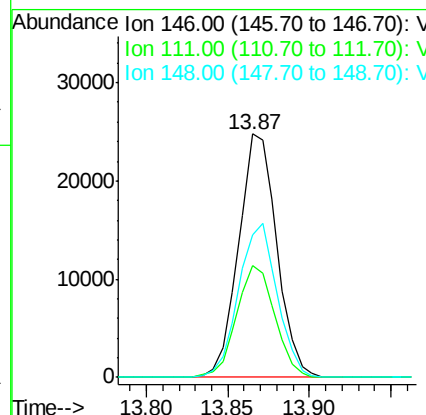
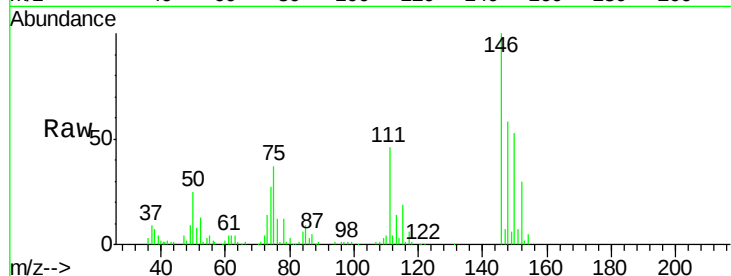




#67  
 1,2-Dichlorobenzene  
 Concen: 4.847 ug/L  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

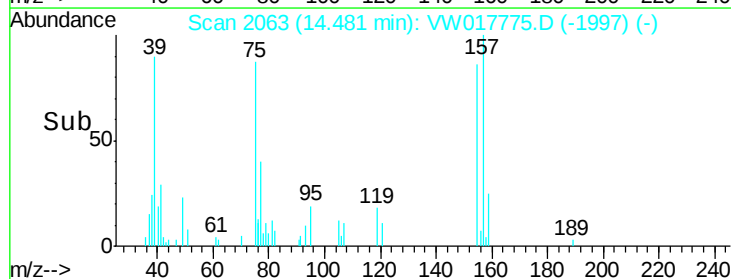
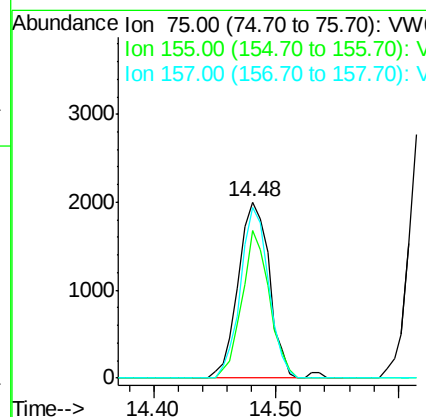
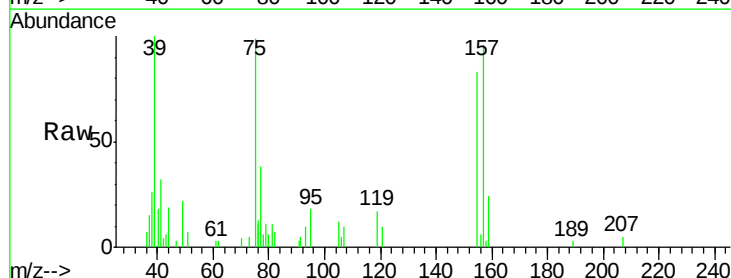
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

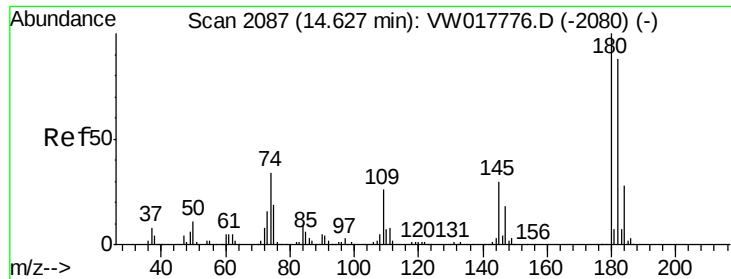
Tgt Ion: 146 Resp: 40438  
 Ion Ratio Lower Upper  
 146 100  
 111 45.9 33.2 49.8  
 148 58.5 50.4 75.6



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.213 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

Tgt Ion: 75 Resp: 3568  
 Ion Ratio Lower Upper  
 75 100  
 155 83.9 59.4 89.0  
 157 97.3 72.2 108.2

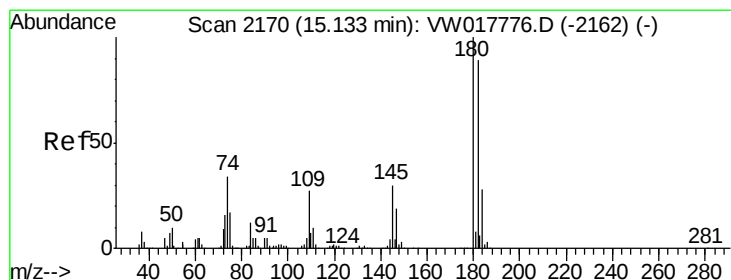
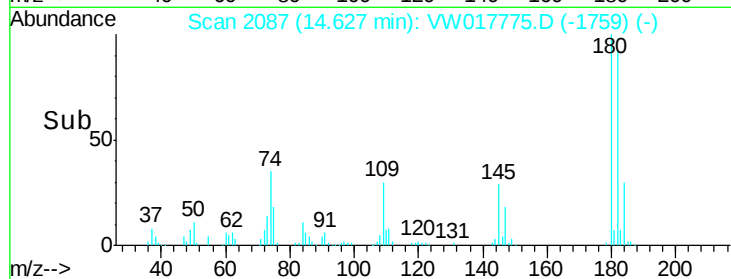
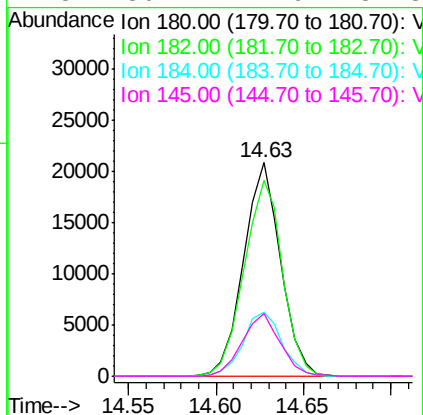
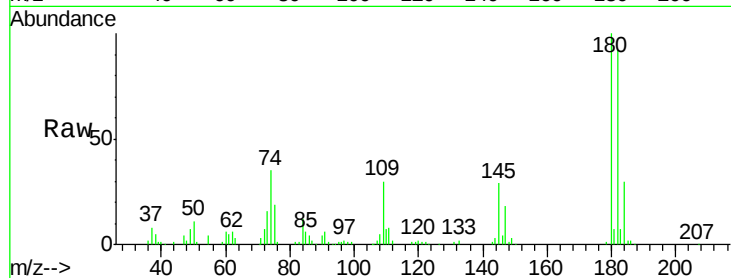




#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.940 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

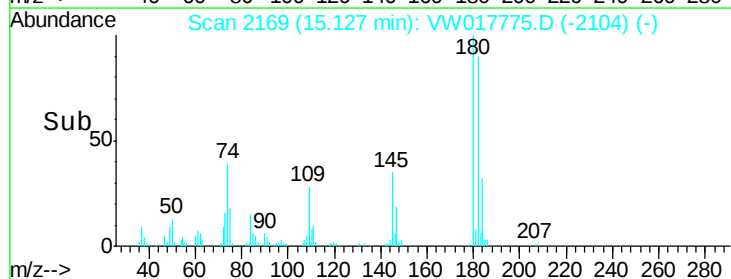
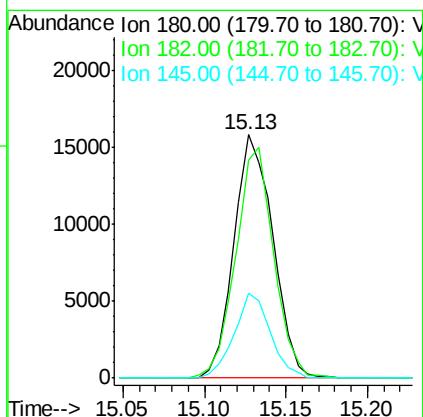
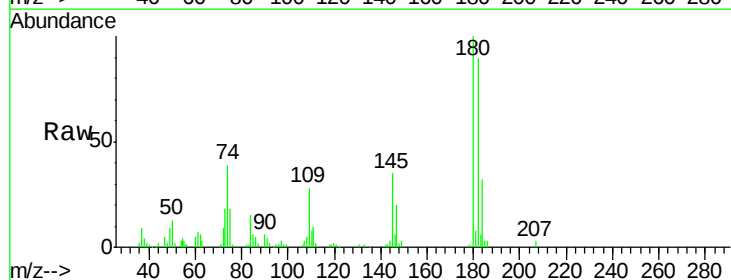
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00504

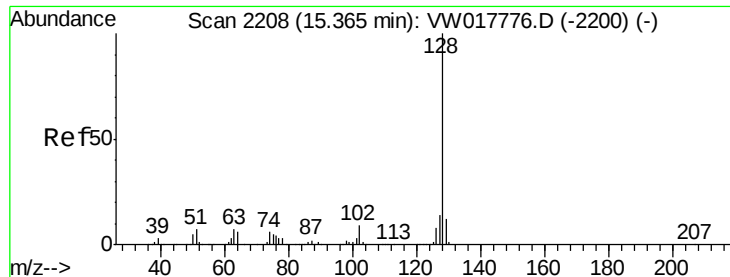
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 30920 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.9  | 73.4  | 110.2 |
| 184      | 31.5  | 23.6  | 35.4  |
| 145      | 30.1  | 24.9  | 37.3  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.883 ug/L  
 RT: 15.13 min Scan# 2169  
 Delta R.T. -0.01 min  
 Lab File: VW017775.D  
 Acq: 30 Dec 2020 11:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 26375 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.5  | 74.7  | 112.1 |
| 145      | 32.4  | 25.0  | 37.4  |

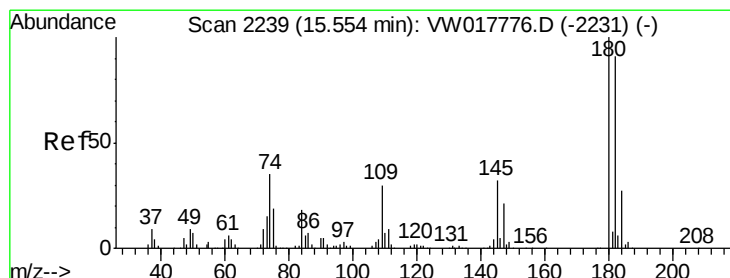
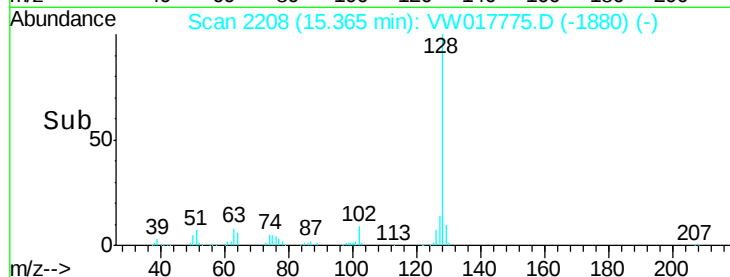
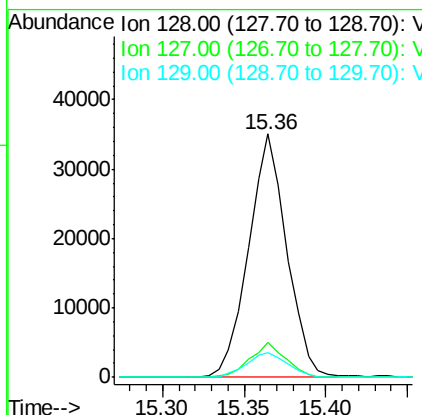
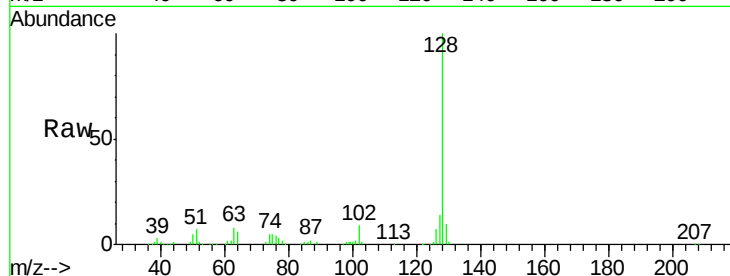




#71  
Naphthalene  
Concen: 4.862 ug/L  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

Tgt Ion:128 Resp: 56902  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.6 15.8  
129 11.0 9.0 13.6



#72  
1,2,3-Trichlorobenzene  
Concen: 4.914 ug/L  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VW017775.D  
Acq: 30 Dec 2020 11:07

Tgt Ion:180 Resp: 23216  
Ion Ratio Lower Upper  
180 100  
182 96.4 76.7 115.1  
145 36.3 28.9 43.3

