

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW122820\  
 Data File : VW017757.D  
 Acq On : 28 Dec 2020 11:25  
 Operator : SY/VA  
 Sample : VSTD00503  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

Quant Time: Dec 28 13:41:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM122820SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 28 13:38:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 373447   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 349108   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 177419   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 30176 | 6.07  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 26154 | 6.66  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 4.03  | 63  | 54824 | 5.45  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 7.08  | 46  | 12549 | 10.25 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 52176 | 5.15  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 29701 | 5.46  | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.27  | 84  | 99483 | 5.09  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.27  | 67  | 28469 | 5.08  | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.32 | 98  | 92593 | 5.13  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.58 | 79  | 12851 | 4.91  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.93 | 63  | 8393  | 10.33 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 23308 | 5.04  | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 30490 | 4.64  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 24921  | 7.875 ug/L   | 99     |
| 3) Chloromethane               | 2.21  | 50  | 19285  | 6.085 ug/L   | 97     |
| 5) Vinyl chloride              | 2.36  | 62  | 33171  | 6.965 ug/L   | 93     |
| 6) Bromomethane                | 2.78  | 94  | 26871  | 8.057 ug/L   | 97     |
| 8) Chloroethane                | 2.93  | 64  | 21362  | 7.061 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 22717  | 5.213 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 25360  | 5.109 ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 23939  | 5.058 ug/L   | 90     |
| 13) Acetone                    | 4.12  | 43  | 4697   | 4.858 ug/L   | 87     |
| 14) Carbon disulfide           | 4.39  | 76  | 71327  | 5.283 ug/L   | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 10721  | 5.411 ug/L # | 75     |
| 16) Methylene chloride         | 4.92  | 84  | 33318  | 6.051 ug/L   | 91     |
| 17) trans-1,2-Dichloroethene   | 5.43  | 96  | 26339  | 5.305 ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 5.43  | 73  | 34914  | 5.948 ug/L # | 86     |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 45785  | 5.327 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 7.17  | 96  | 27989  | 5.283 ug/L   | 99     |
| 22) 2-Butanone                 | 7.17  | 43  | 14790  | 10.140 ug/L  | 95     |
| 23) Bromochloromethane         | 7.51  | 128 | 12653  | 5.148 ug/L   | 91     |
| 25) Chloroform                 | 7.68  | 83  | 49182  | 5.367 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 34529  | 5.812 ug/L   | 100    |
| 29) Cyclohexane                | 7.96  | 56  | 42350  | 5.630 ug/L   | 100    |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97  | 41077  | 5.257 ug/L   | 97     |
| 31) Carbon tetrachloride       | 8.07  | 117 | 38315  | 5.063 ug/L   | 98     |
| 33) Benzene                    | 8.32  | 78  | 103548 | 5.280 ug/L   | 100    |
| 34) Trichloroethene            | 9.09  | 95  | 28315  | 5.238 ug/L   | 91     |
| 35) Methylcyclohexane          | 9.34  | 83  | 47955  | 5.441 ug/L   | 99     |
| 37) 1,2-Dichloropropane        | 9.37  | 63  | 25991  | 5.445 ug/L # | 93     |
| 38) Bromodichloromethane       | 9.65  | 83  | 33925  | 5.068 ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75  | 40056  | 5.262 ug/L   | 94     |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43  | 29291  | 10.768 ug/L  | 98     |

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 Sample : VSTD00503  
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 ALS Vial : 4 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD005103

Quant Time: Dec 28 13:41:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM122820SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 28 13:38:32 2020  
 Response via : Initial Calibration

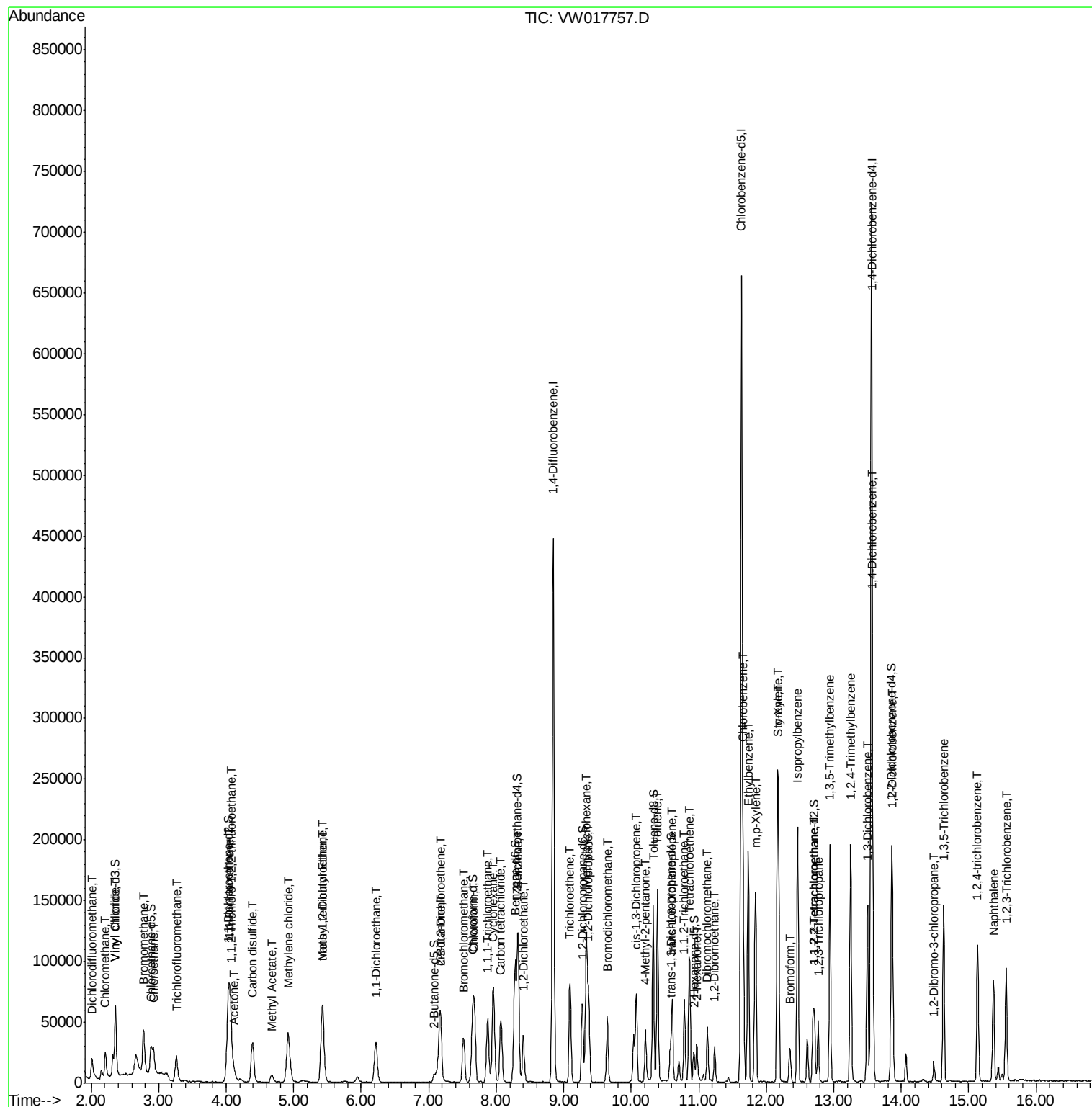
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 10.39 | 91   | 112559   | 5.285 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 10.61 | 75   | 34965    | 5.121 | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 20086    | 5.304 | ug/L   | 96       |
| 46) Tetrachloroethene          | 10.86 | 164  | 21671    | 4.875 | ug/L   | 94       |
| 48) 2-Hexanone                 | 10.97 | 43   | 18004    | 9.755 | ug/L   | 95       |
| 49) Dibromochloromethane       | 11.13 | 129  | 21735    | 4.657 | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 11.24 | 107  | 19074    | 5.152 | ug/L   | 99       |
| 51) Chlorobenzene              | 11.66 | 112  | 72616    | 5.184 | ug/L   | 98       |
| 52) Ethylbenzene               | 11.73 | 91   | 129356   | 5.382 | ug/L   | 97       |
| 53) m,p-Xylene                 | 11.84 | 106  | 47686    | 5.203 | ug/L   | 94       |
| 54) o-Xylene                   | 12.16 | 106  | 46214    | 5.324 | ug/L   | 94       |
| 55) Styrene                    | 12.18 | 104  | 77135    | 5.203 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 23192    | 5.203 | ug/L   | 89       |
| 59) Bromoform                  | 12.35 | 173  | 11207    | 4.101 | ug/L # | 98       |
| 60) Isopropylbenzene           | 12.46 | 105  | 125626   | 5.264 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 18295    | 5.474 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 101059   | 5.191 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 102460   | 5.319 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 54648    | 4.885 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 56370    | 4.968 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 48952    | 4.810 | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 3833     | 5.019 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 37353    | 4.663 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 34104    | 5.031 | ug/L   | 99       |
| 71) Naphthalene                | 15.36 | 128  | 65645    | 5.503 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 28228    | 4.795 | ug/L   | 99       |

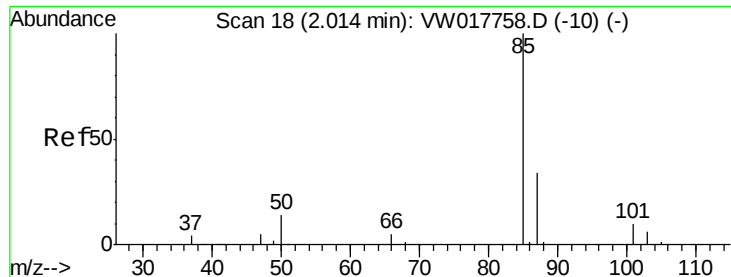
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0  
QLast Update : Mon Dec 28 13:38:32 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 7.875 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

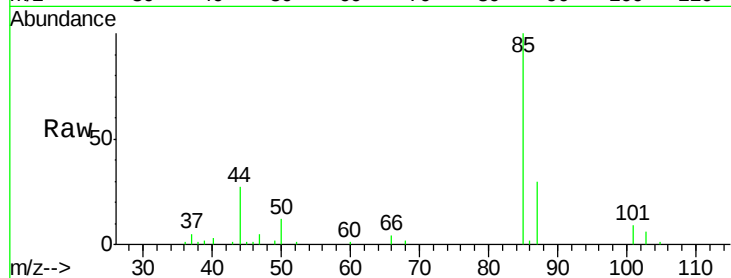
VSTD005103

Tgt Ion: 85 Resp: 24921

Ion Ratio Lower Upper

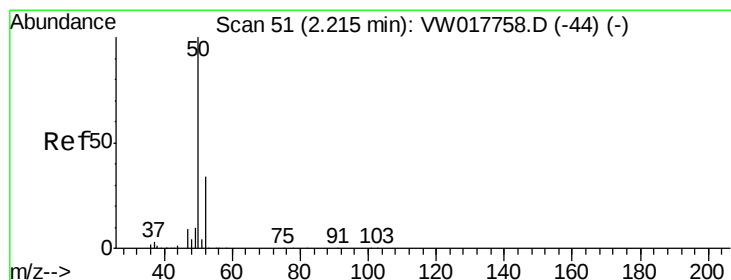
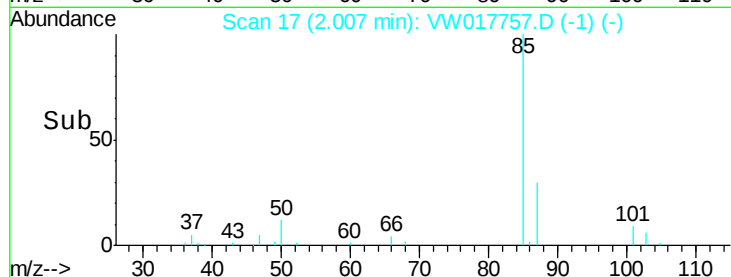
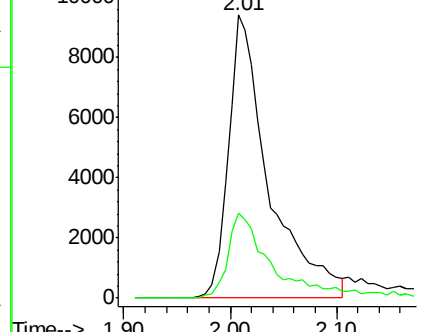
85 100

87 30.3 23.8 35.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 6.085 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW017757.D

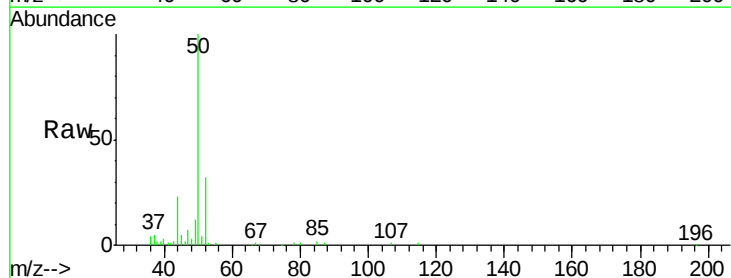
Acq: 28 Dec 2020 11:25

Tgt Ion: 50 Resp: 19285

Ion Ratio Lower Upper

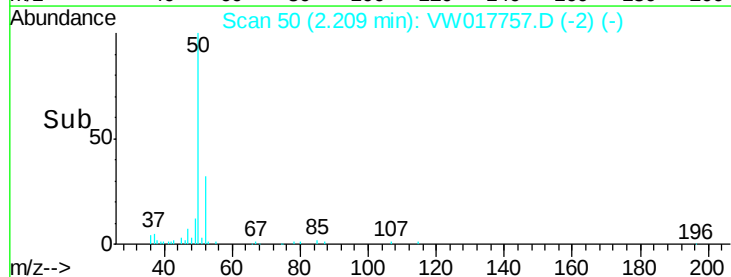
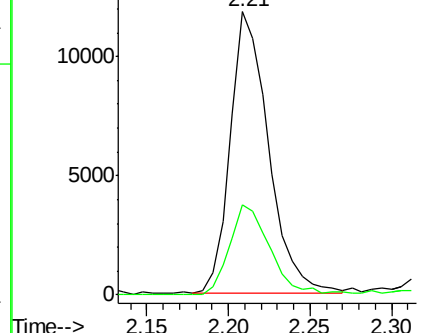
50 100

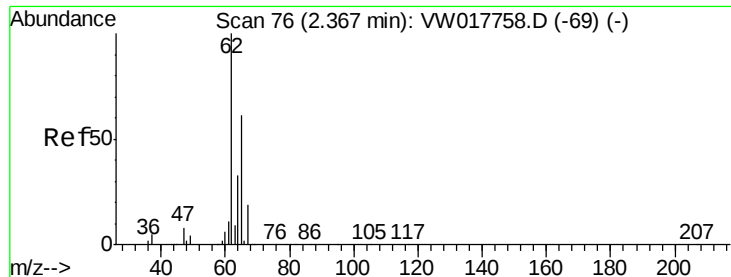
52 31.9 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 6.965 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

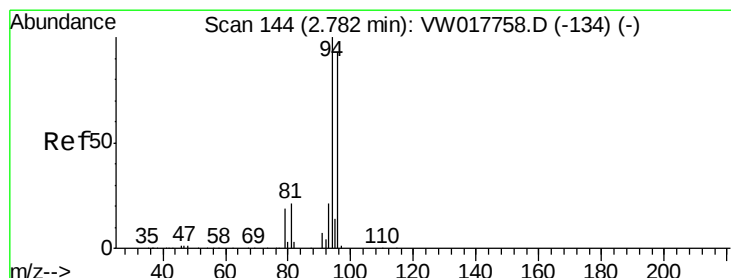
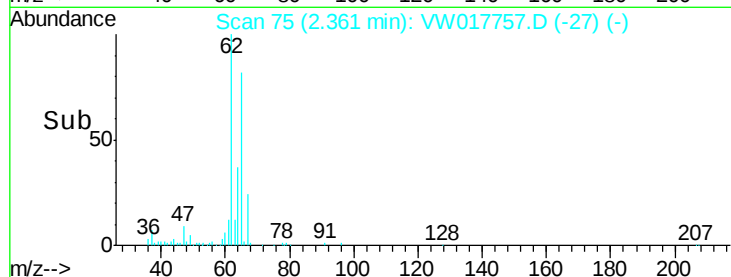
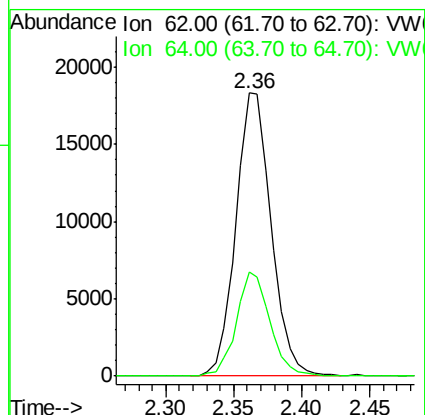
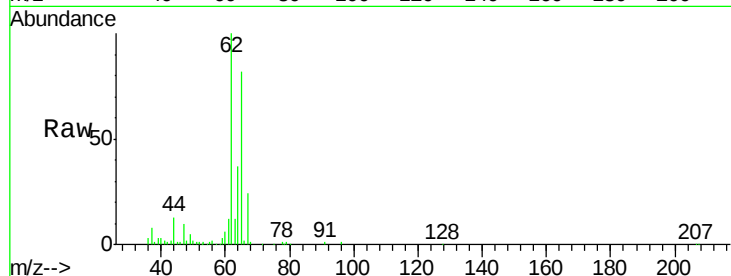
VSTD005103

Tgt Ion: 62 Resp: 33171

Ion Ratio Lower Upper

62 100

64 37.0 23.0 42.6



#6

Bromomethane

Concen: 8.057 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW017757.D

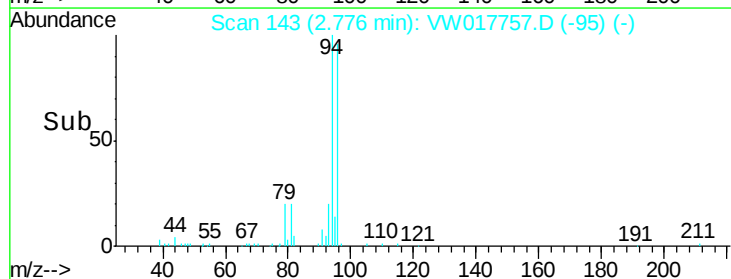
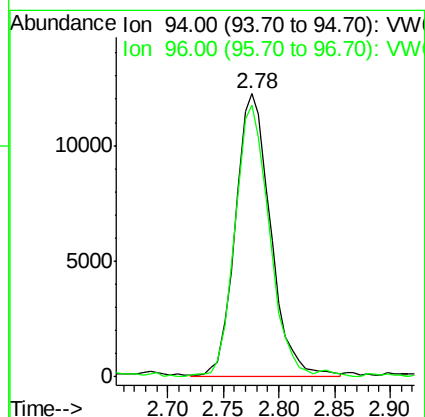
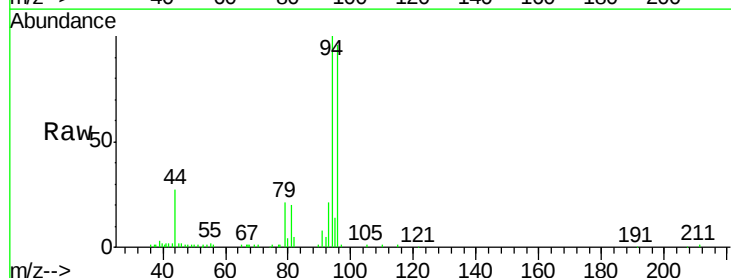
Acq: 28 Dec 2020 11:25

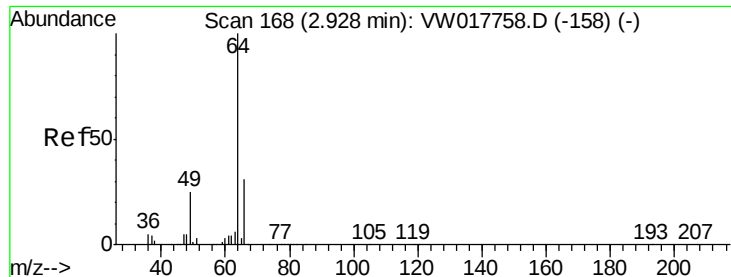
Tgt Ion: 94 Resp: 26871

Ion Ratio Lower Upper

94 100

96 96.0 65.0 120.6





#8

Chloroethane

Concen: 7.061 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampled :

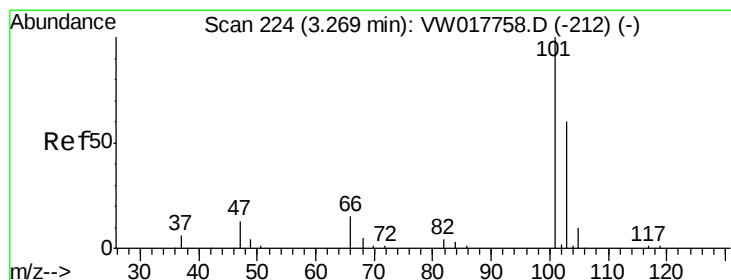
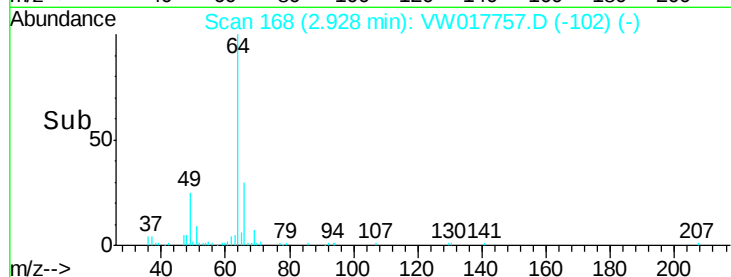
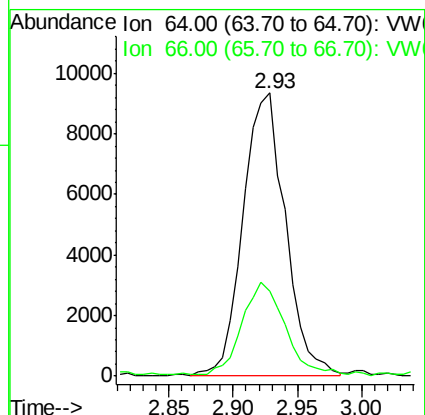
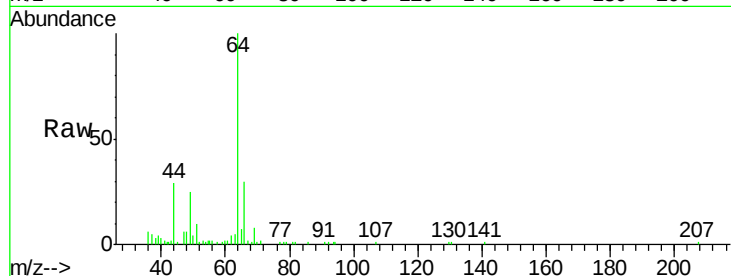
VSTD005103

Tgt Ion: 64 Resp: 21362

Ion Ratio Lower Upper

64 100

66 30.0 21.7 40.3



#9

Trichlorofluoromethane

Concen: 5.213 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.01 min

Lab File: VW017757.D

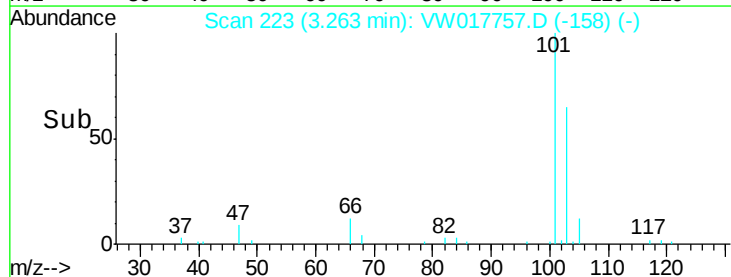
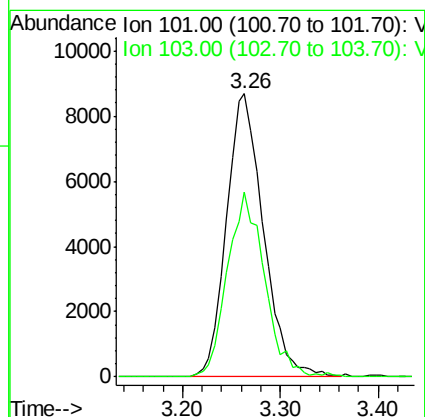
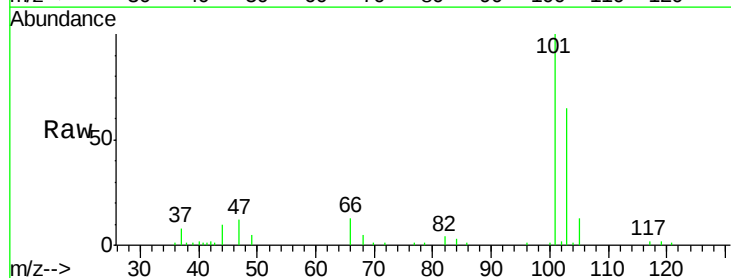
Acq: 28 Dec 2020 11:25

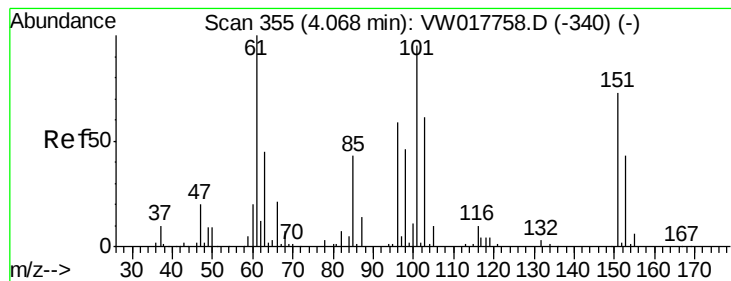
Tgt Ion: 101 Resp: 22717

Ion Ratio Lower Upper

101 100

103 65.4 51.8 77.8





#10

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

Concen: 5.109 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

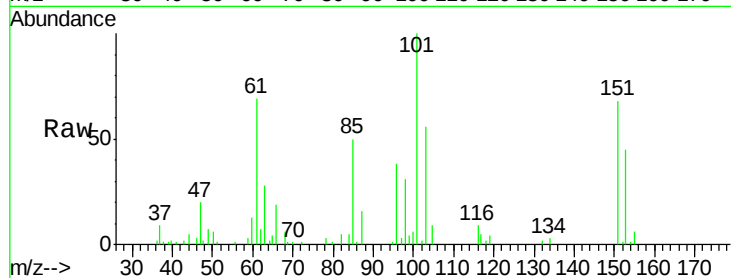
Tgt Ion:101 Resp: 25360

Ion Ratio Lower Upper

101 100

85 49.1 37.9 56.9

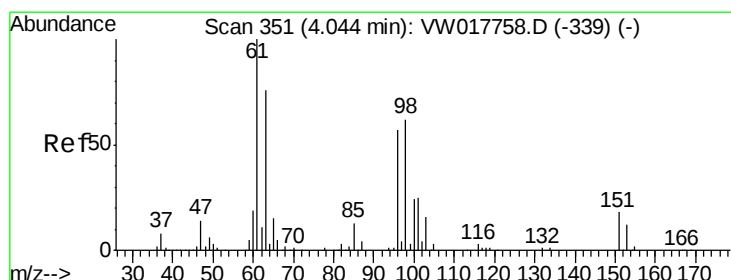
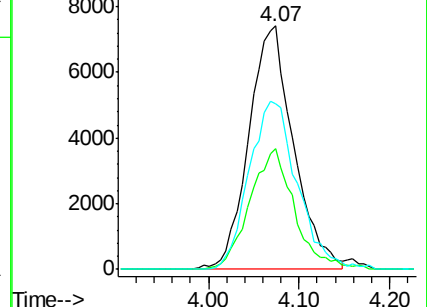
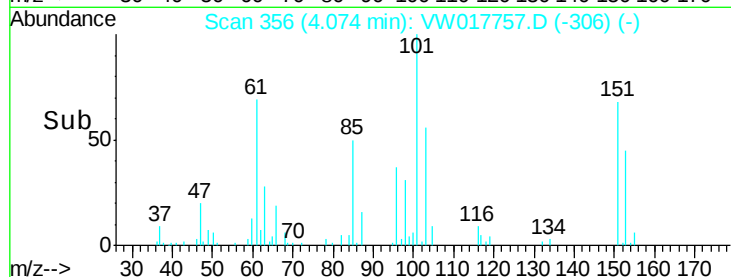
151 73.8 58.2 87.2



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: 5.058 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

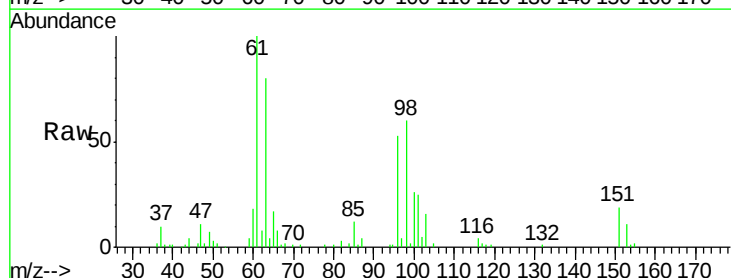
Tgt Ion: 96 Resp: 23939

Ion Ratio Lower Upper

96 100

61 189.6 123.7 229.7

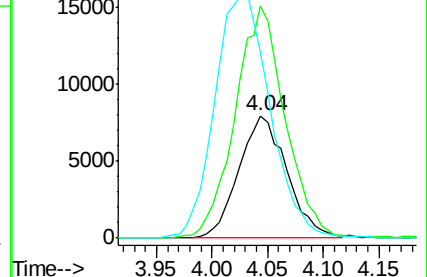
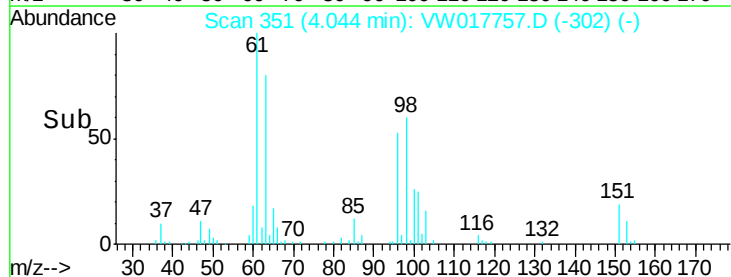
63 152.1 96.6 179.4

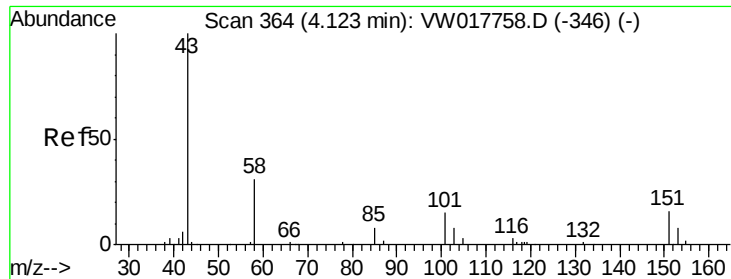


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.858 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

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Instrument :

MSVOA\_W

ClientSampleId :

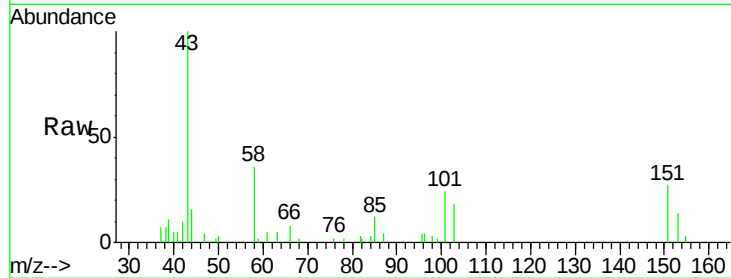
VSTD005103

Tgt Ion: 43 Resp: 4697

Ion Ratio Lower Upper

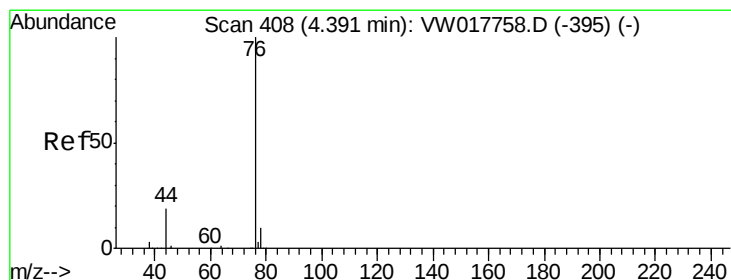
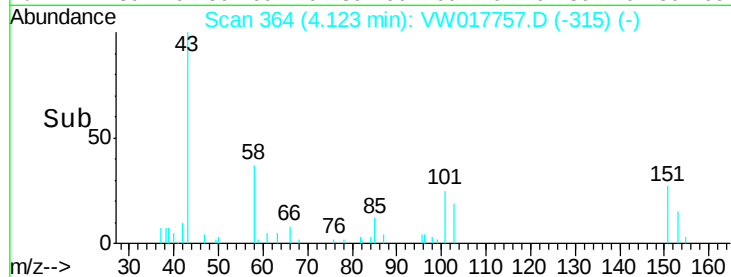
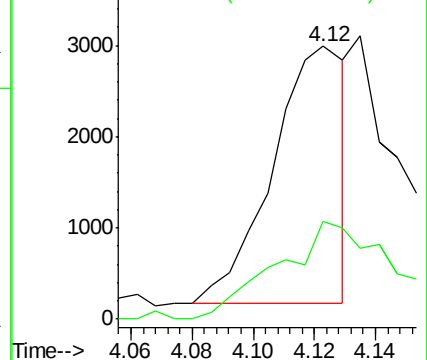
43 100

58 35.9 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 5.283 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.00 min

Lab File: VW017757.D

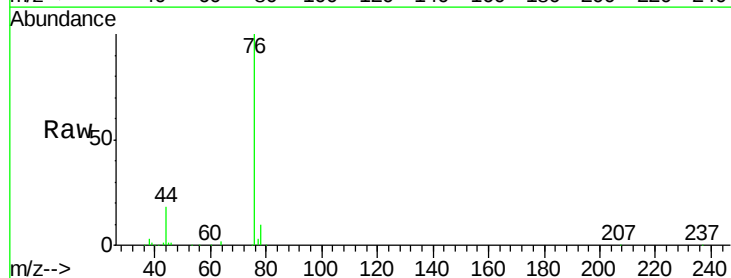
Acq: 28 Dec 2020 11:25

Tgt Ion: 76 Resp: 71327

Ion Ratio Lower Upper

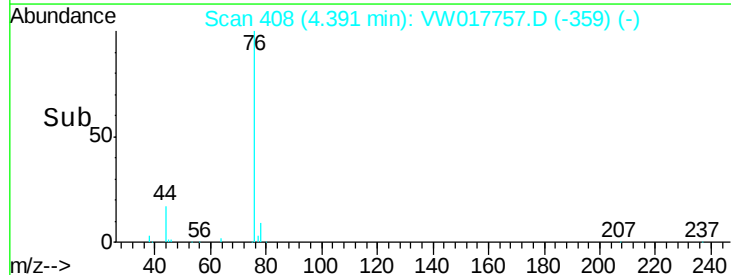
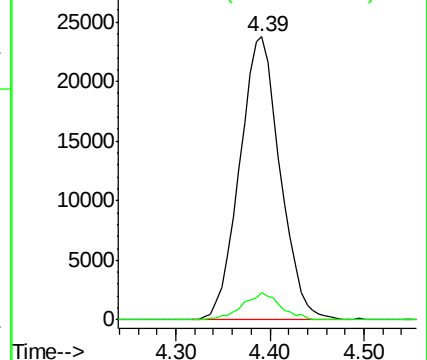
76 100

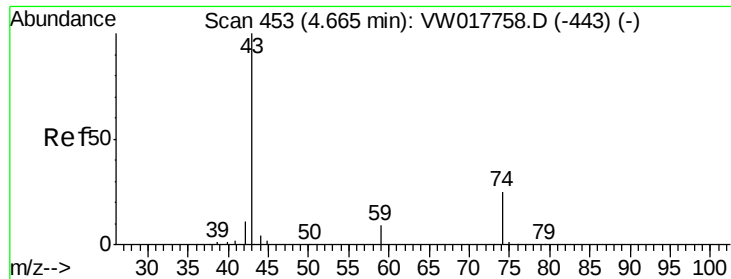
78 9.8 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

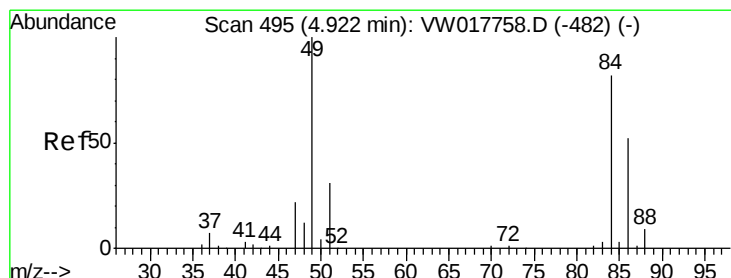
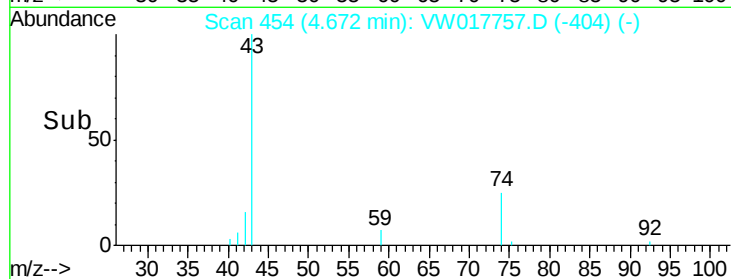
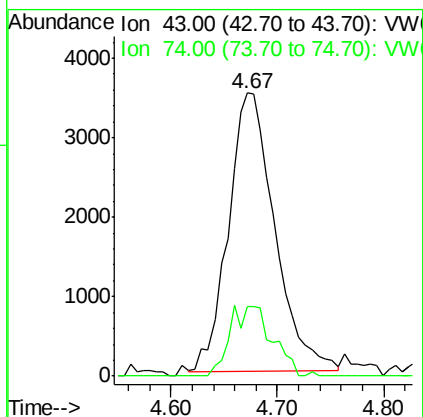
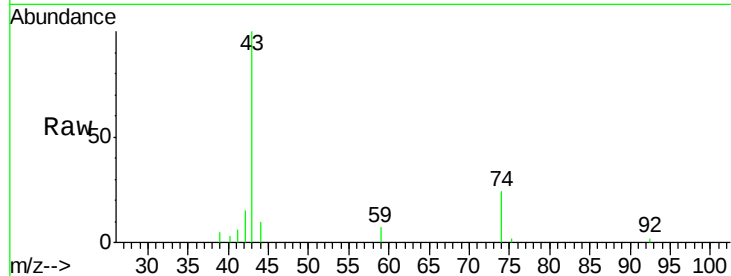




#15  
Methyl Acetate  
Concen: 5.411 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

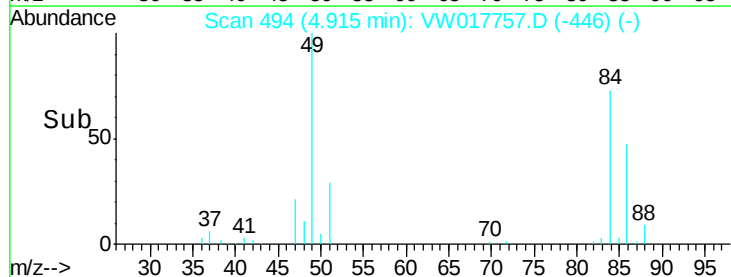
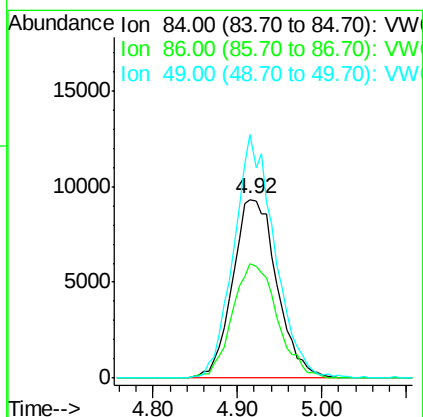
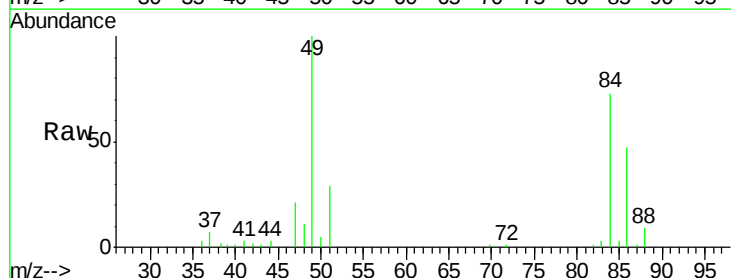
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

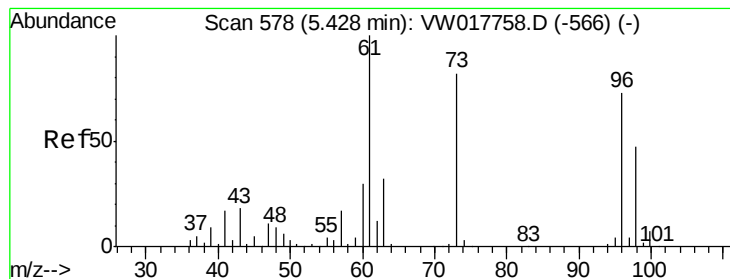
Tgt Ion: 43 Resp: 10721  
Ion Ratio Lower Upper  
43 100  
74 11.9 19.3 28.9#



#16  
Methylene chloride  
Concen: 6.051 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion: 84 Resp: 33318  
Ion Ratio Lower Upper  
84 100  
86 64.2 44.0 81.8  
49 136.4 85.4 158.6





#17

trans-1,2-Dichloroethene

Concen: 5.305 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

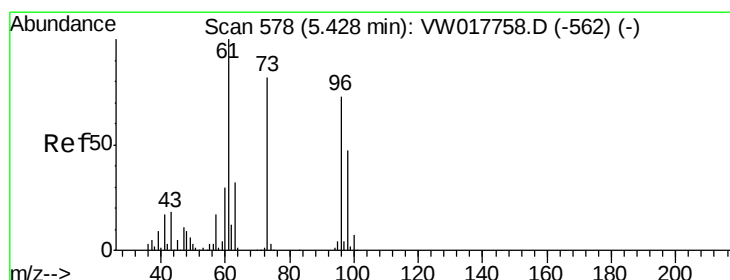
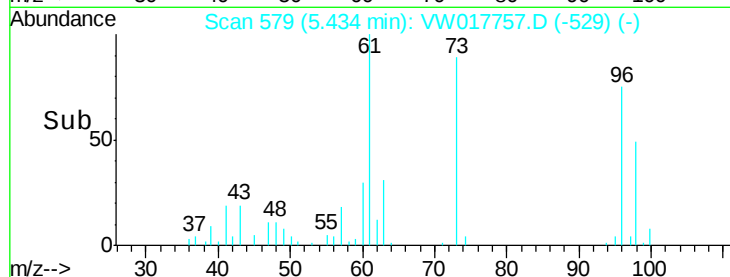
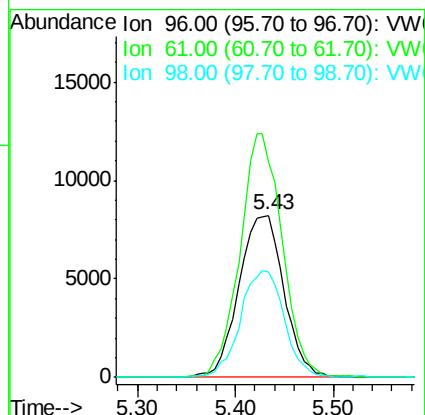
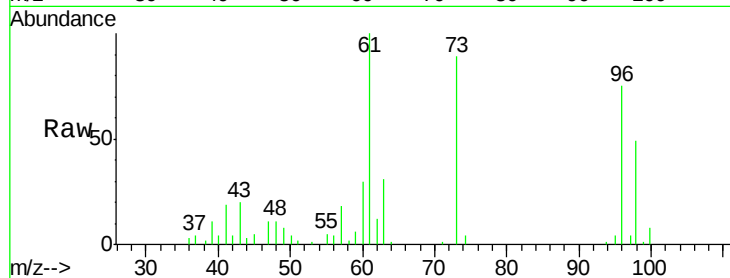
Tgt Ion: 96 Resp: 26339

Ion Ratio Lower Upper

96 100

61 133.1 96.0 178.4

98 65.0 44.9 83.3



#18

Methyl tert-butyl Ether

Concen: 5.948 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

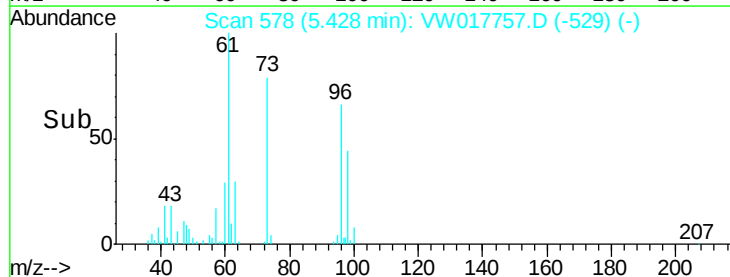
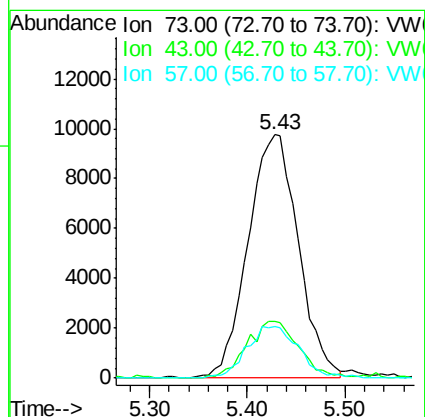
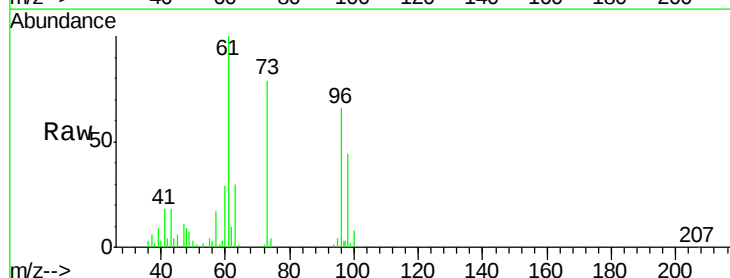
Tgt Ion: 73 Resp: 34914

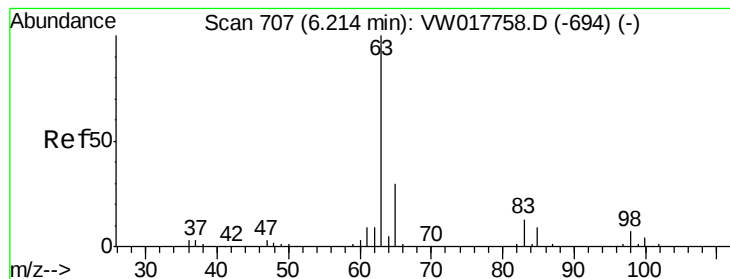
Ion Ratio Lower Upper

73 100

43 23.8 17.4 26.0

57 10.3 16.9 25.3#





#19

1,1-Dichloroethane

Concen: 5.327 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

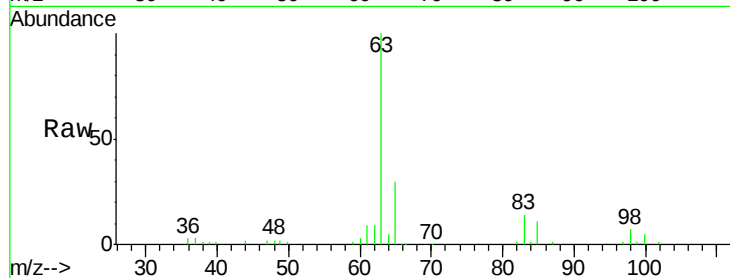
Tgt Ion: 63 Resp: 45785

Ion Ratio Lower Upper

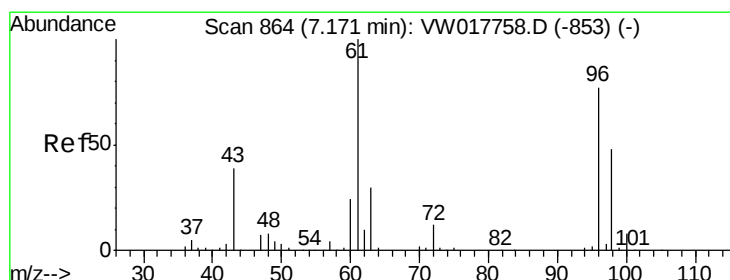
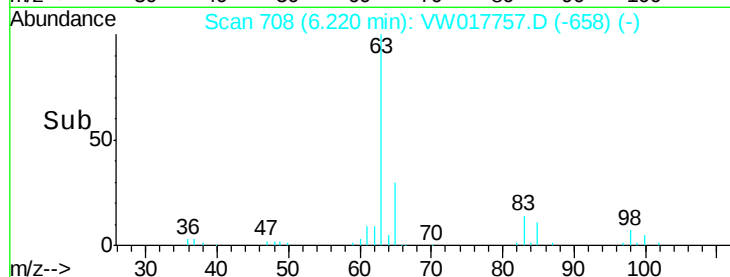
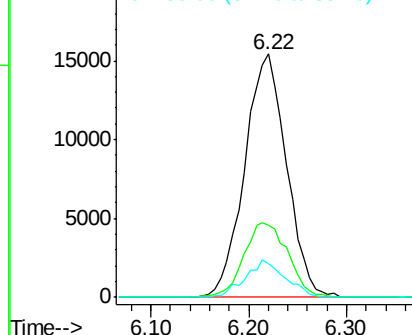
63 100

65 29.6 21.3 39.5

83 13.8 8.8 16.4



Abundance Ion 63.00 (62.70 to 63.70): VW  
Ion 65.00 (64.70 to 65.70): VW  
Ion 83.00 (82.70 to 83.70): VW



#20

cis-1,2-Dichloroethene

Concen: 5.283 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

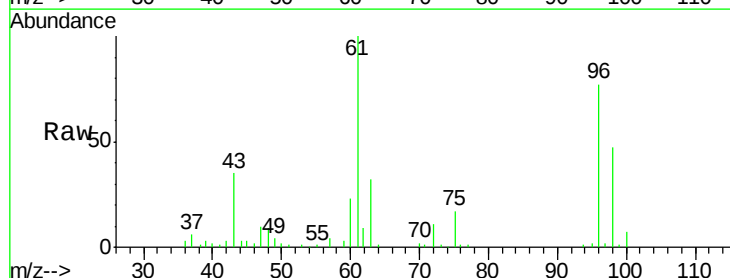
Tgt Ion: 96 Resp: 27989

Ion Ratio Lower Upper

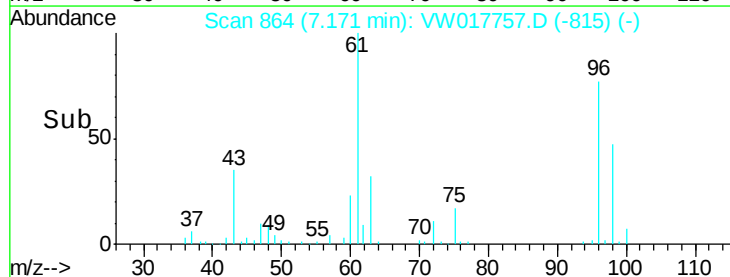
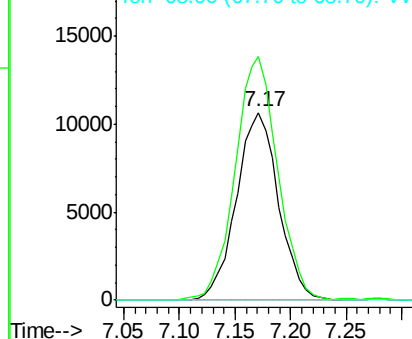
96 100

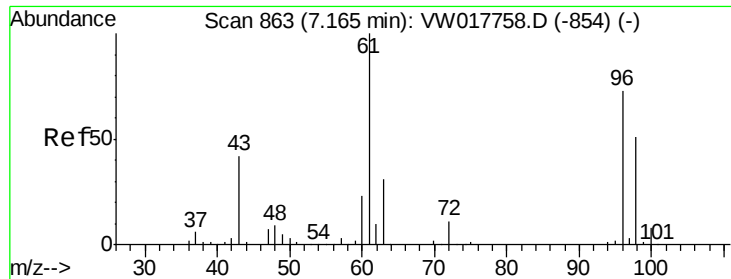
61 129.8 91.6 170.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 68.00 (67.70 to 68.70): VW

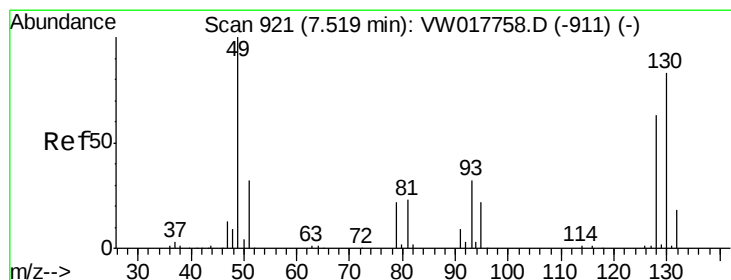
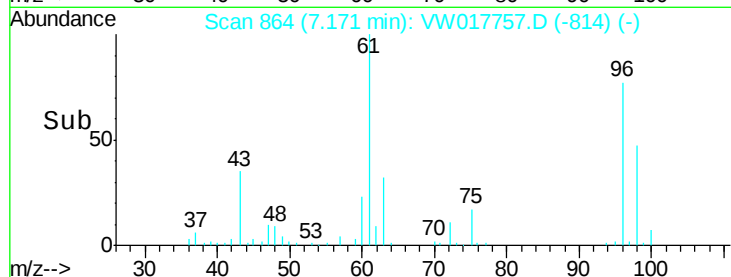
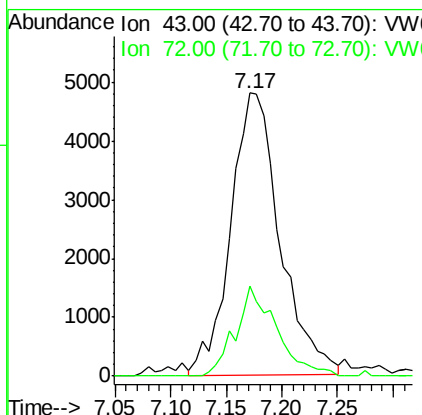
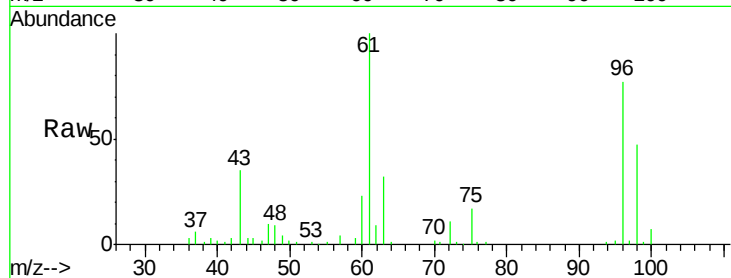




#22  
2-Butanone  
Concen: 10.140 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

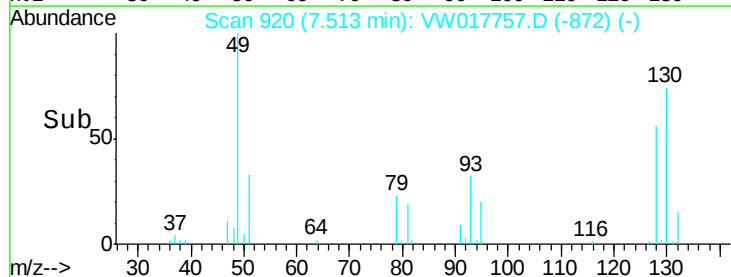
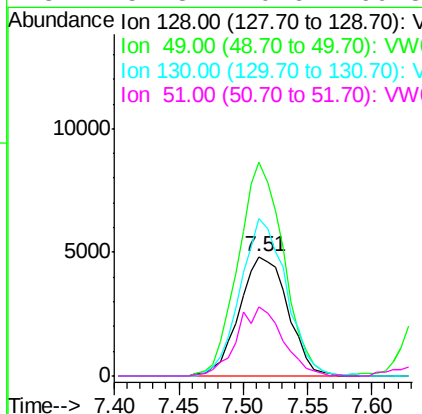
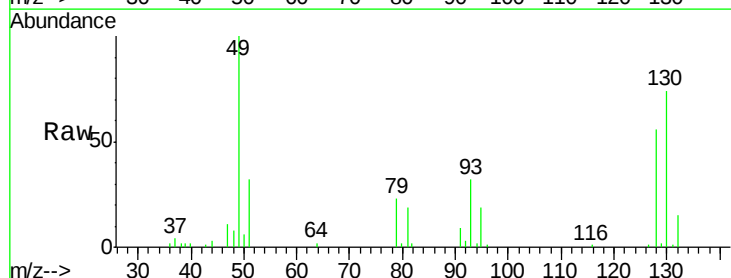
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD005103

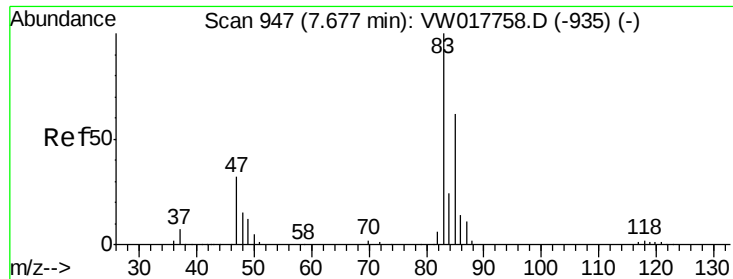
Tgt Ion: 43 Resp: 14790  
Ion Ratio Lower Upper  
43 100  
72 26.7 14.6 44.0



#23  
Bromochloromethane  
Concen: 5.148 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion: 128 Resp: 12653  
Ion Ratio Lower Upper  
128 100  
49 179.4 111.2 206.6  
130 132.4 91.9 170.7  
51 57.8 40.6 60.8

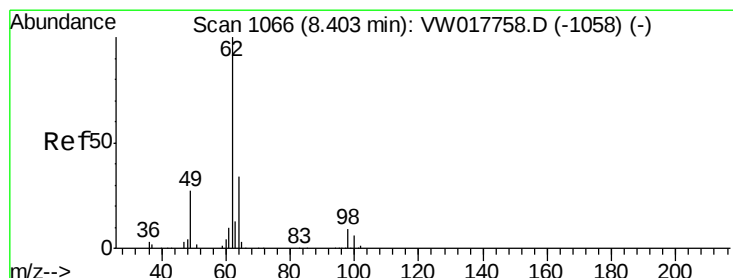
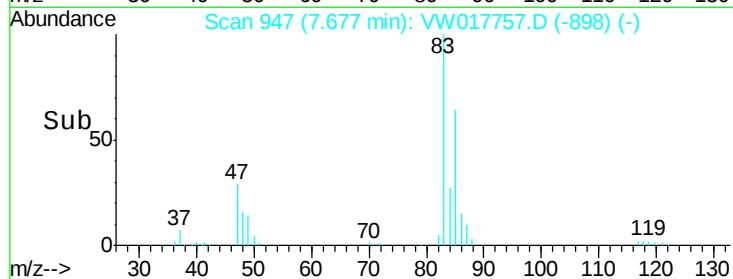
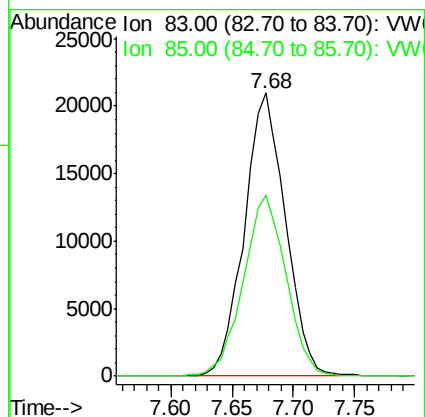
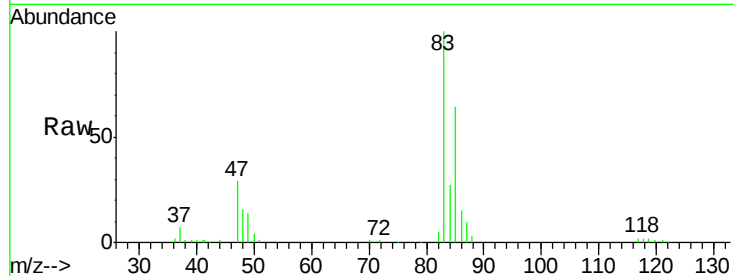




#25  
Chloroform  
Concen: 5.367 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

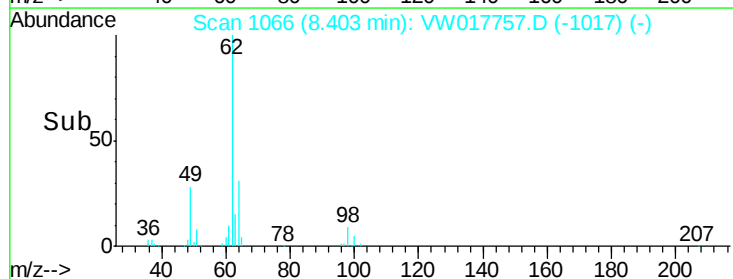
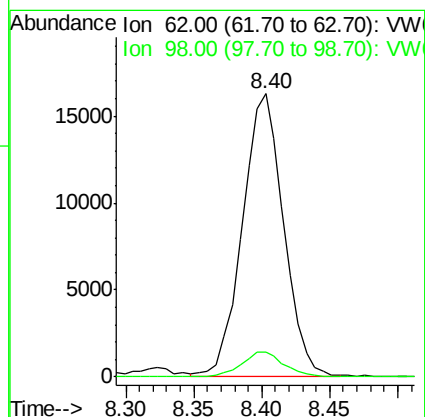
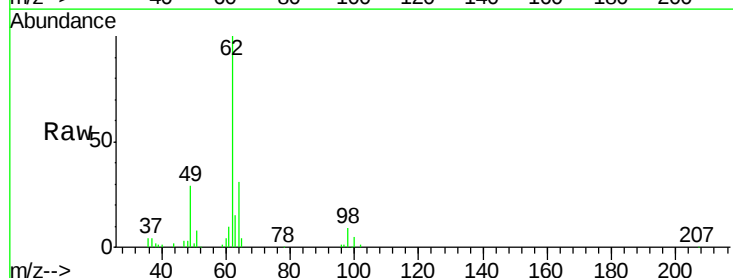
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

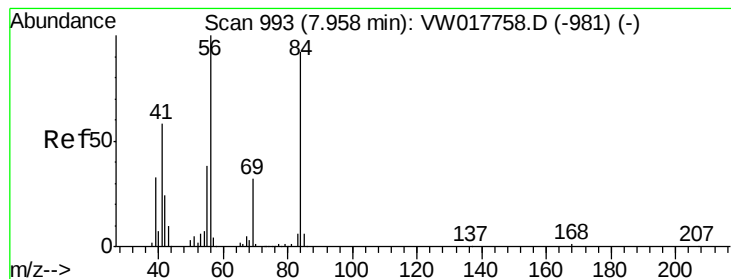
Tgt Ion: 83 Resp: 49182  
Ion Ratio Lower Upper  
83 100  
85 64.1 43.6 81.0



#27  
1,2-Dichloroethane  
Concen: 5.812 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion: 62 Resp: 34529  
Ion Ratio Lower Upper  
62 100  
98 8.6 6.8 10.2





#29

Cyclohexane

Concen: 5.630 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

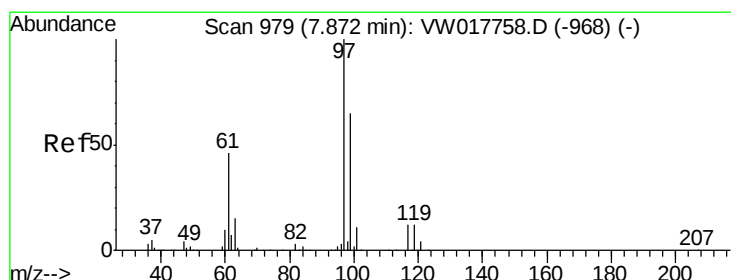
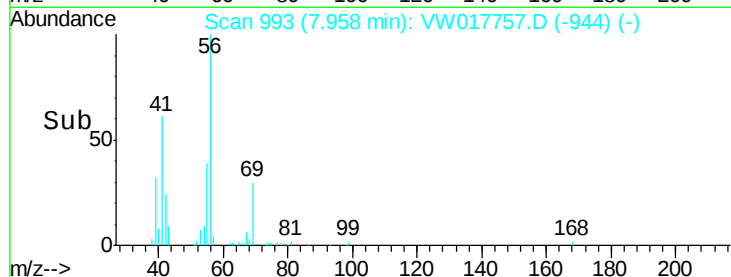
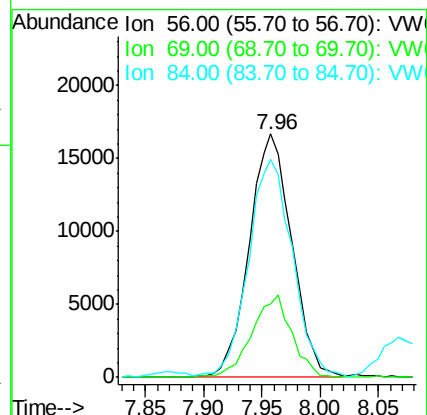
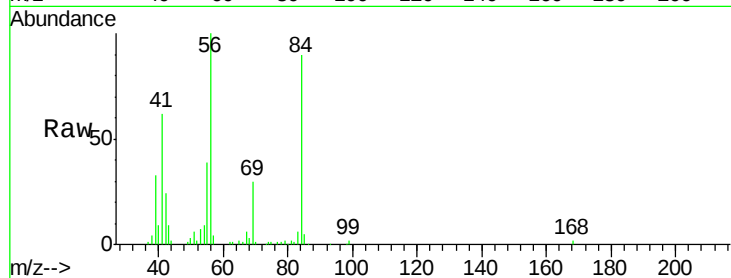
Tgt Ion: 56 Resp: 42350

Ion Ratio Lower Upper

56 100

69 31.7 25.4 38.2

84 92.3 74.3 111.5



#30

1,1,1-Trichloroethane

Concen: 5.257 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

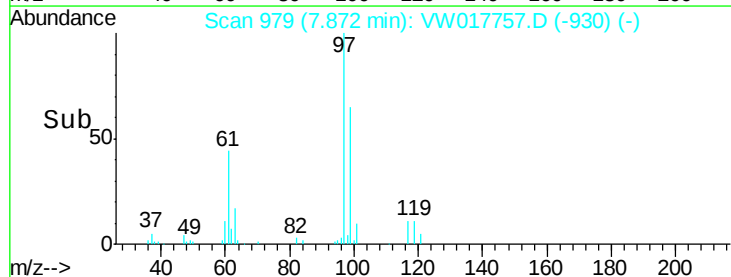
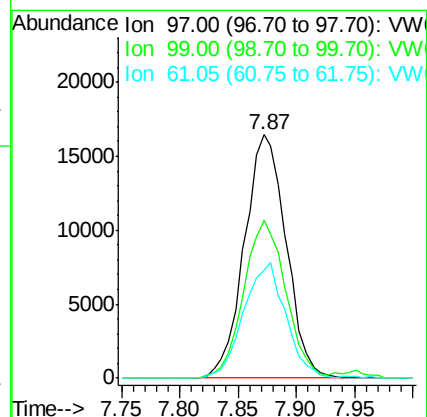
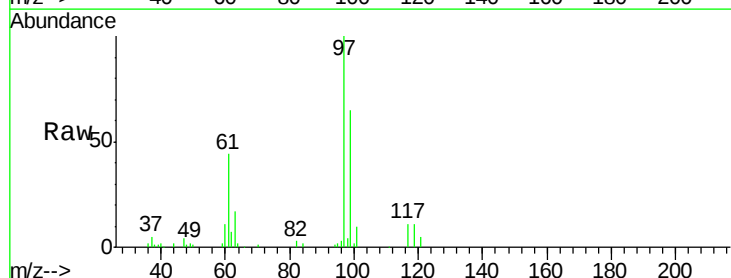
Tgt Ion: 97 Resp: 41077

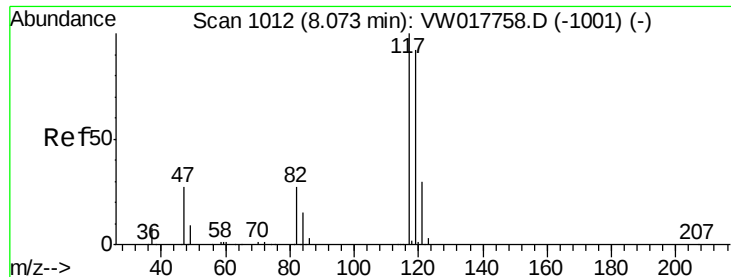
Ion Ratio Lower Upper

97 100

99 65.4 50.6 75.8

61 47.7 36.6 54.8

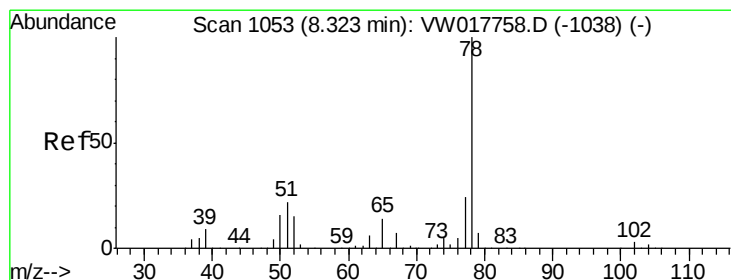
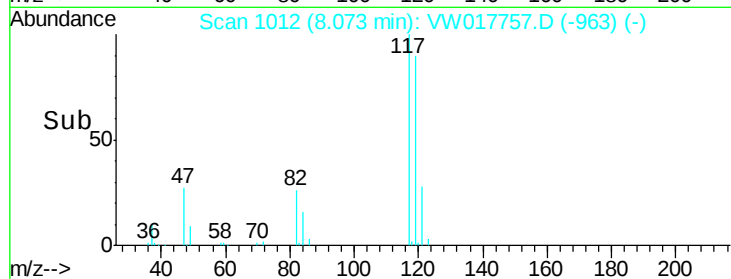
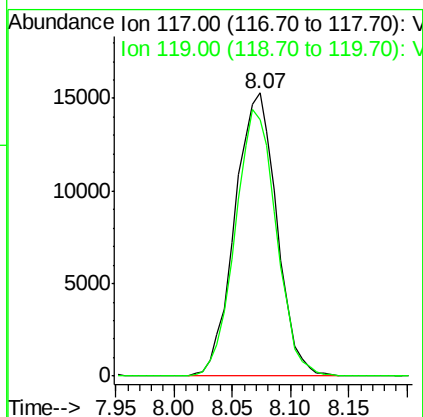
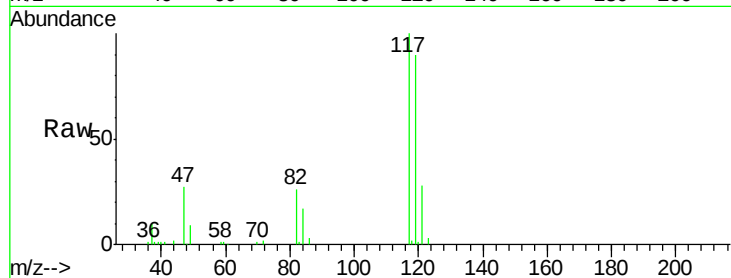




#31  
Carbon tetrachloride  
Concen: 5.063 ug/L  
RT: 8.07 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

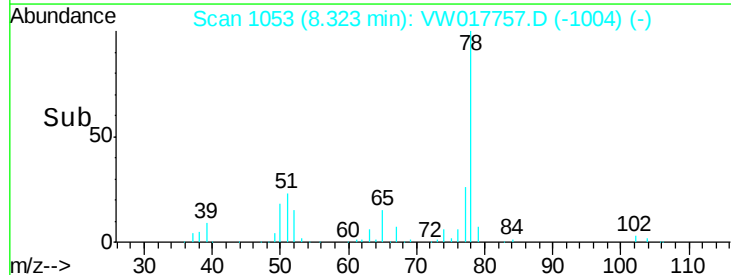
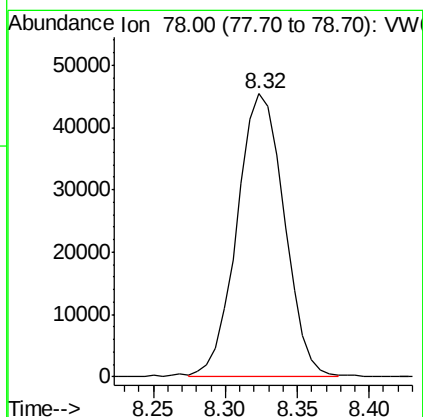
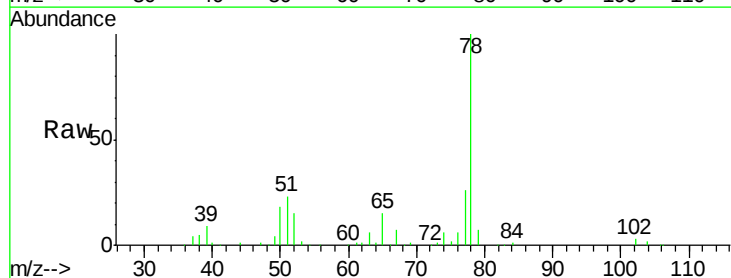
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

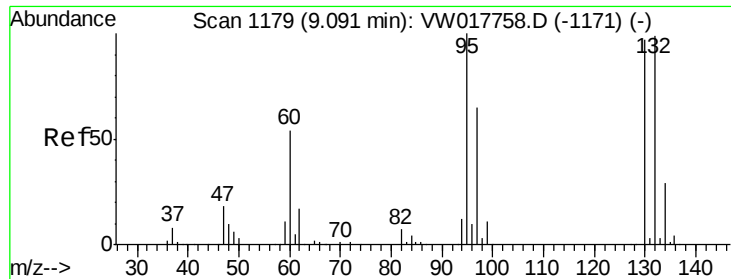
Tgt Ion:117 Resp: 38315  
Ion Ratio Lower Upper  
117 100  
119 92.8 75.6 113.4



#33  
Benzene  
Concen: 5.280 ug/L  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion: 78 Resp: 103548

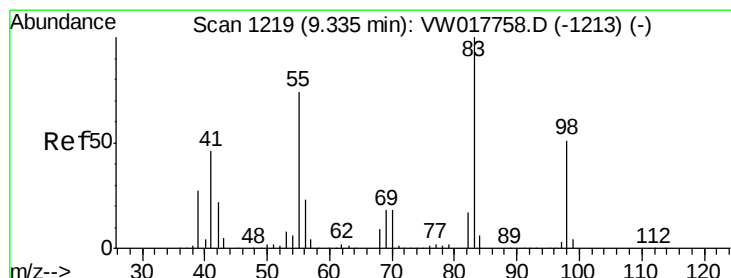
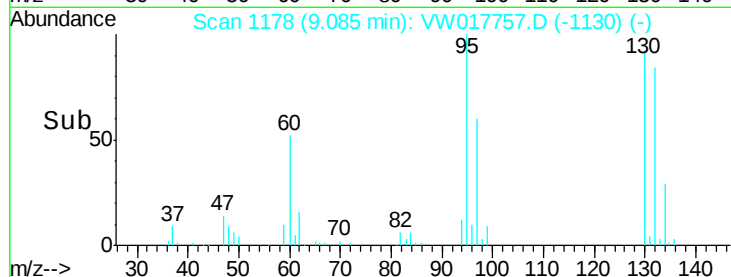
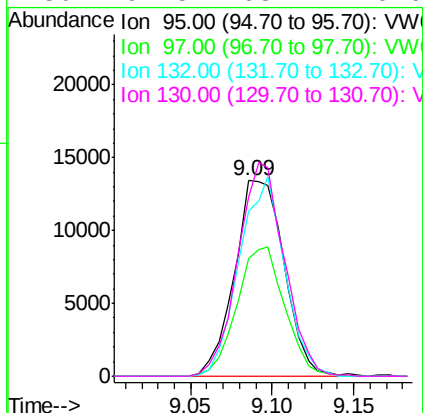
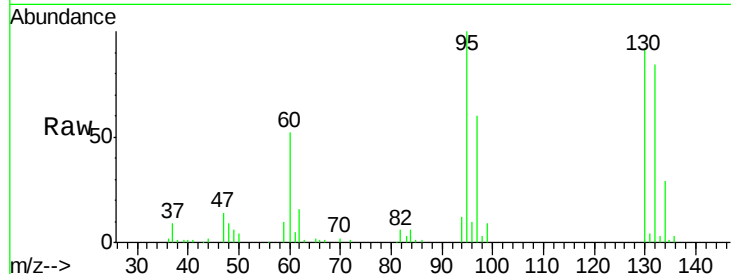




#34  
 Trichloroethene  
 Concen: 5.238 ug/L  
 RT: 9.09 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

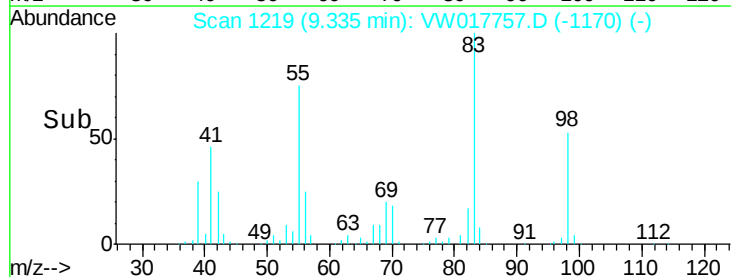
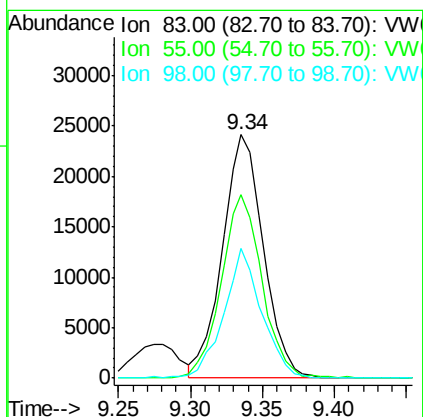
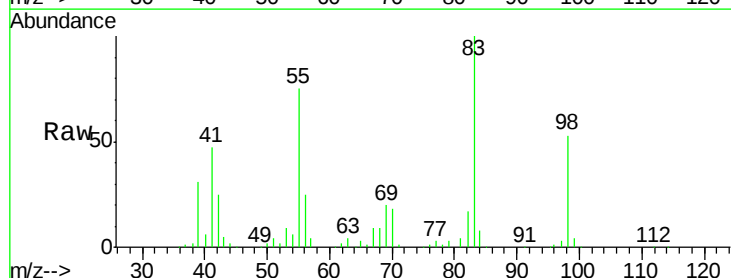
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

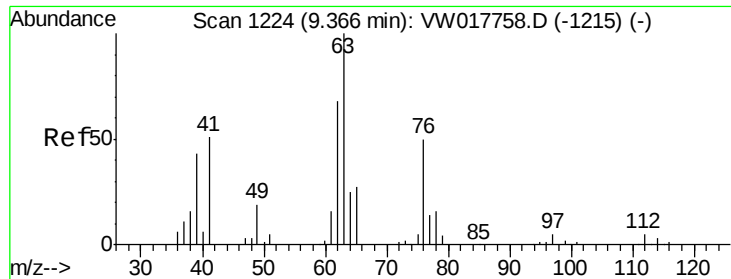
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 28315 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 60.1  | 45.6  | 84.6  |
| 132      | 84.5  | 69.4  | 128.8 |
| 130      | 91.5  | 68.2  | 126.6 |



#35  
 Methylcyclohexane  
 Concen: 5.441 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 47955 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 74.4  | 58.6  | 88.0  |
| 98       | 49.4  | 40.5  | 60.7  |

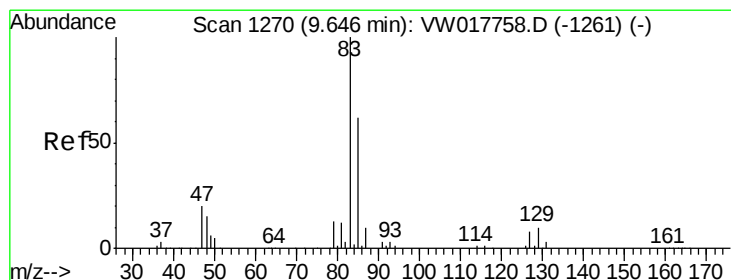
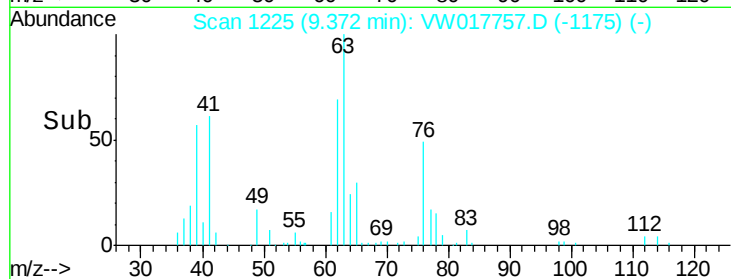
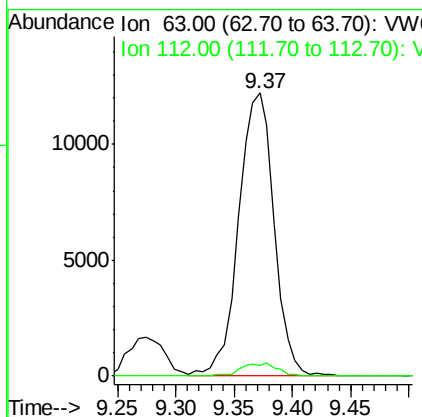
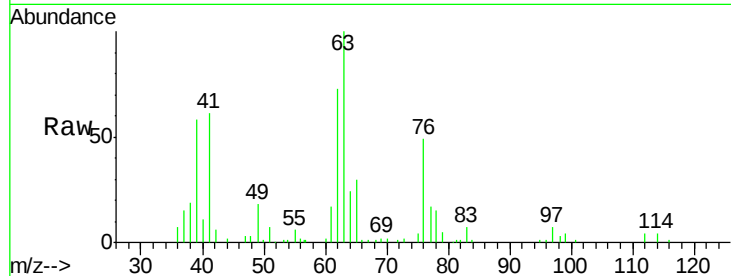




#37  
 1,2-Dichloropropane  
 Concen: 5.445 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

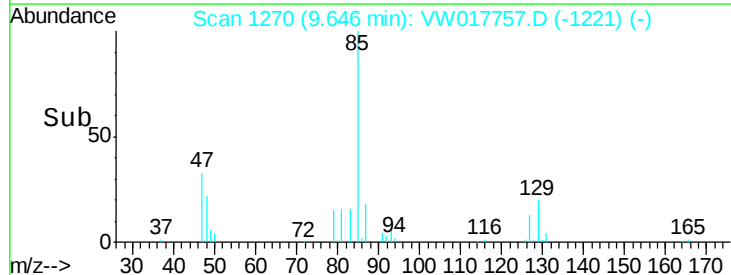
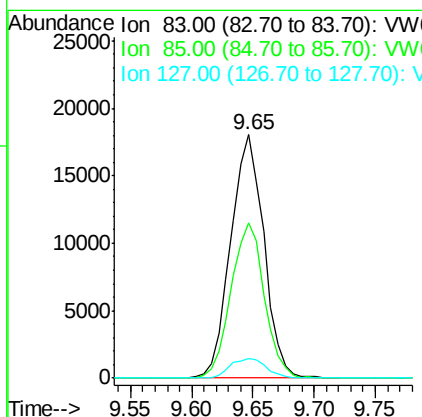
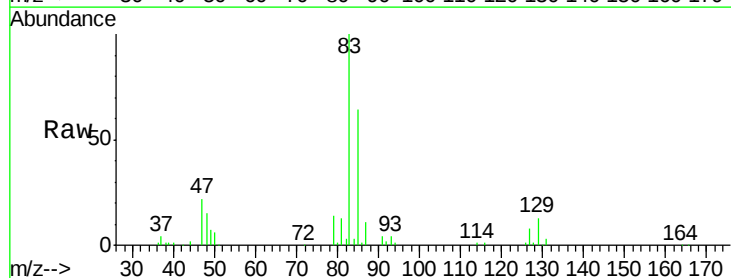
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD005103

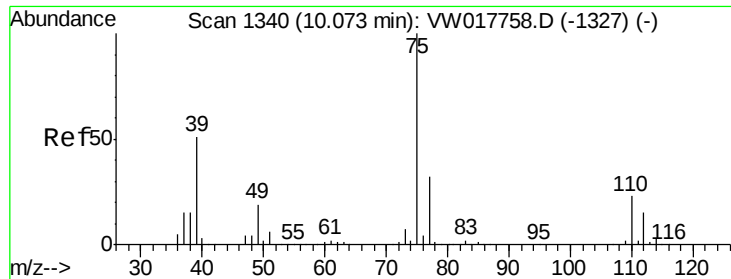
Tgt Ion: 63 Resp: 25991  
 Ion Ratio Lower Upper  
 63 100  
 112 2.0 3.6 5.4#



#38  
 Bromodichloromethane  
 Concen: 5.068 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Tgt Ion: 83 Resp: 33925  
 Ion Ratio Lower Upper  
 83 100  
 85 63.9 43.0 80.0  
 127 8.2 6.1 9.1





#39

cis-1,3-Dichloropropene

Concen: 5.262 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

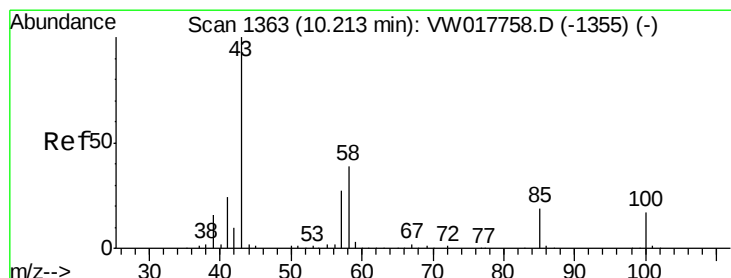
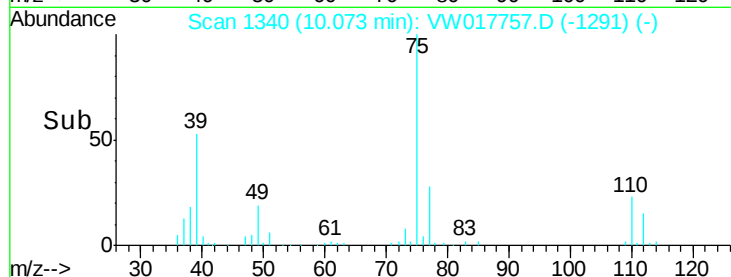
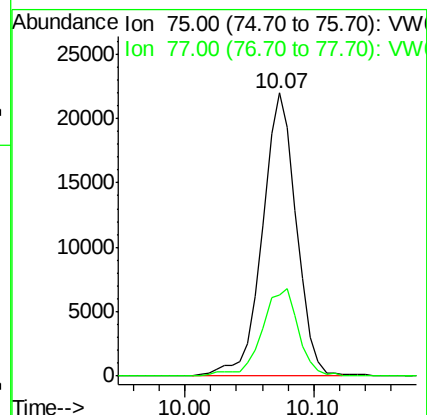
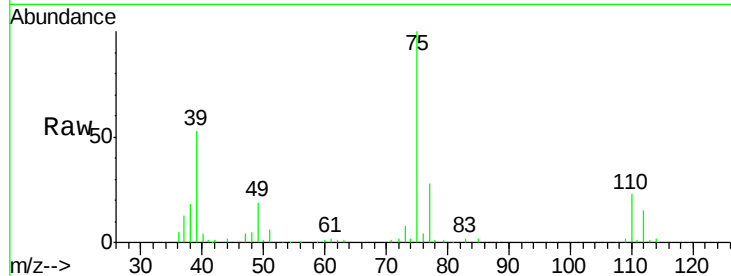
VSTD005103

Tgt Ion: 75 Resp: 40056

Ion Ratio Lower Upper

75 100

77 28.5 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 10.768 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

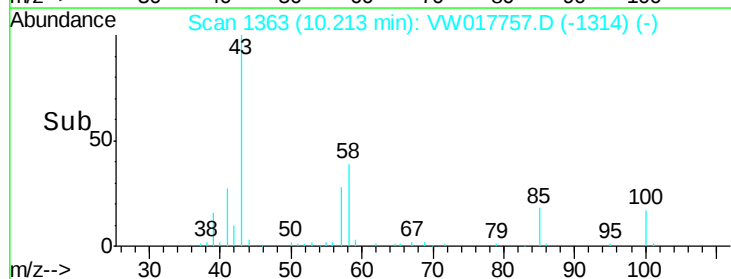
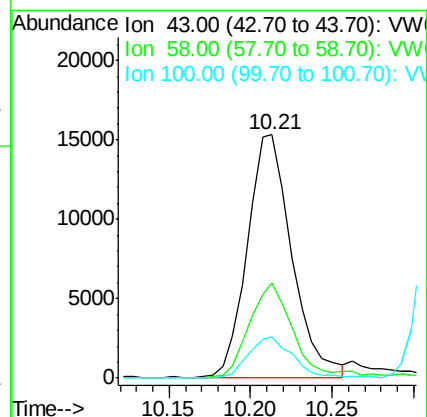
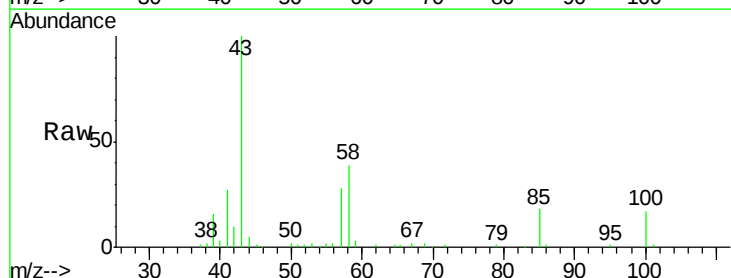
Tgt Ion: 43 Resp: 29291

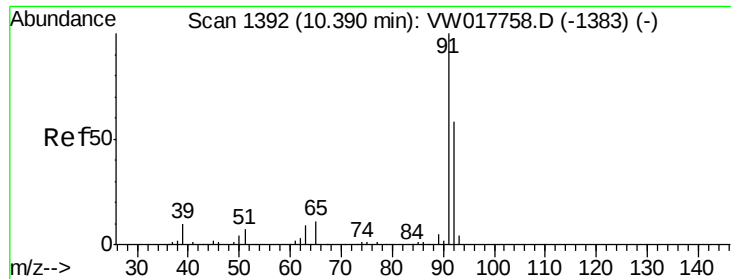
Ion Ratio Lower Upper

43 100

58 37.0 30.3 45.5

100 16.7 12.8 19.2





#42

Toluene

Concen: 5.285 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

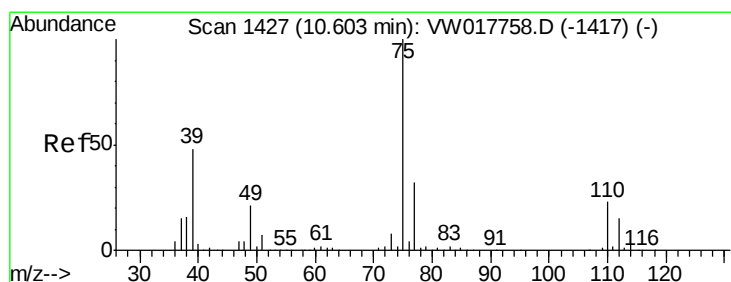
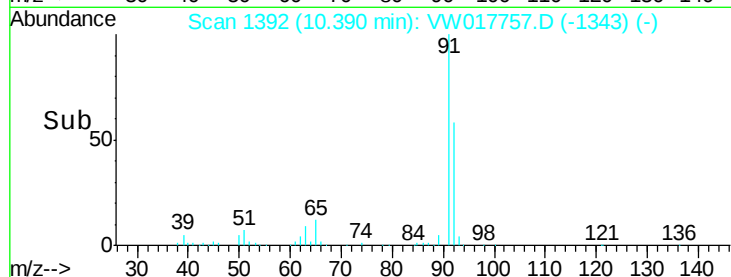
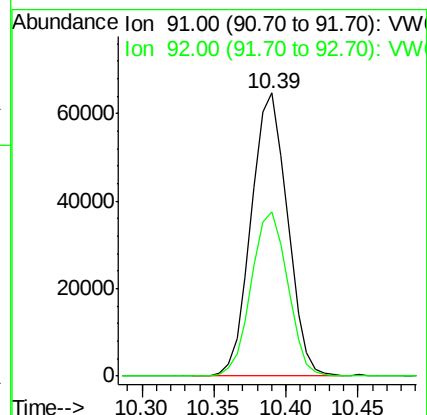
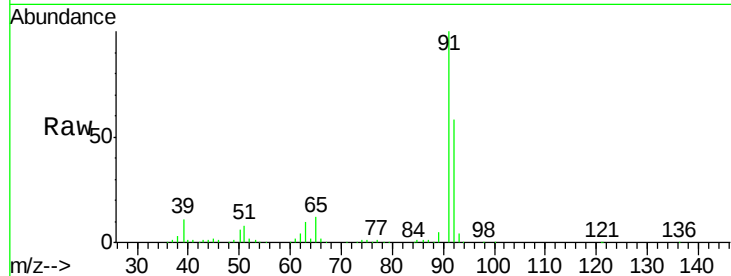
VSTD005103

Tgt Ion: 91 Resp: 112559

Ion Ratio Lower Upper

91 100

92 58.2 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 5.121 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW017757.D

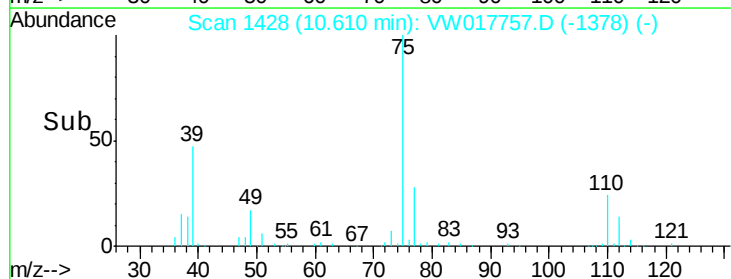
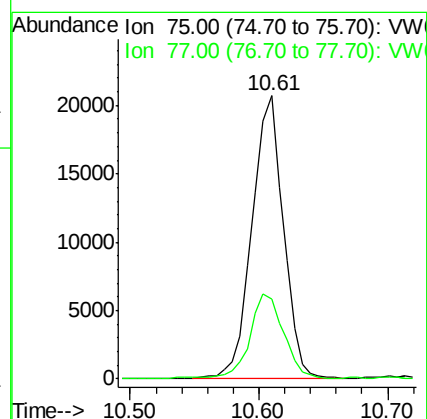
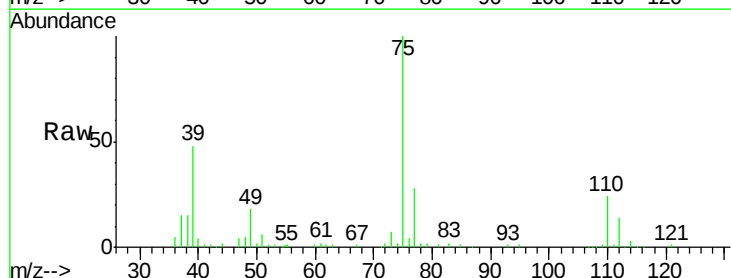
Acq: 28 Dec 2020 11:25

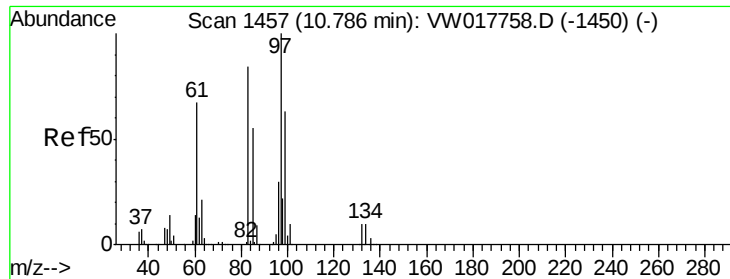
Tgt Ion: 75 Resp: 34965

Ion Ratio Lower Upper

75 100

77 28.4 22.3 41.5





#45

1,1,2-Trichloroethane

Concen: 5.304 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

Tgt Ion: 97 Resp: 20086

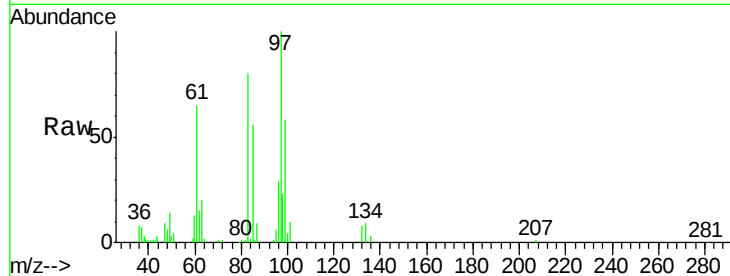
Ion Ratio Lower Upper

97 100

99 58.5 44.0 81.8

83 80.2 59.1 109.9

85 55.6 38.9 72.3

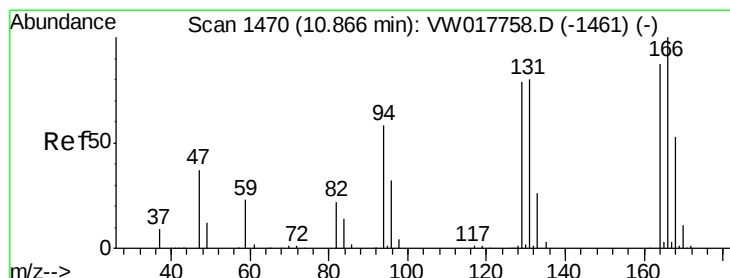
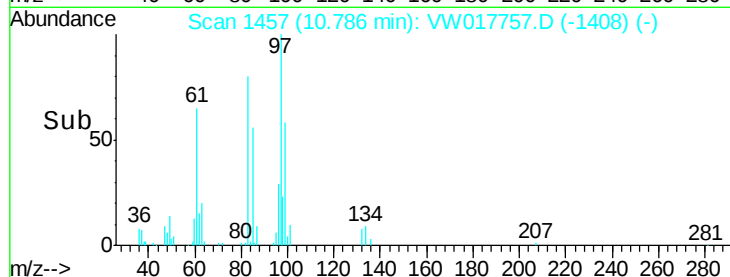
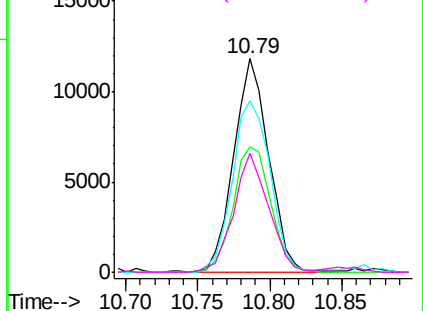


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 4.875 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Tgt Ion: 164 Resp: 21671

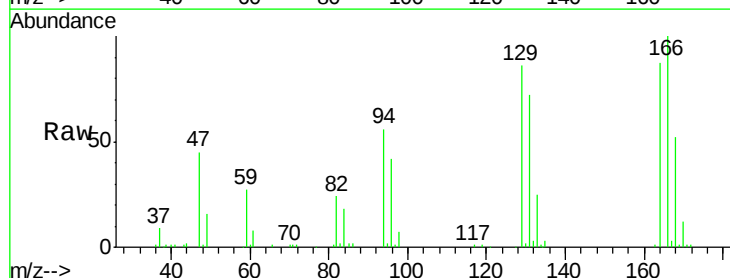
Ion Ratio Lower Upper

164 100

129 98.4 63.3 117.7

131 81.9 63.8 118.6

166 114.5 80.3 149.1

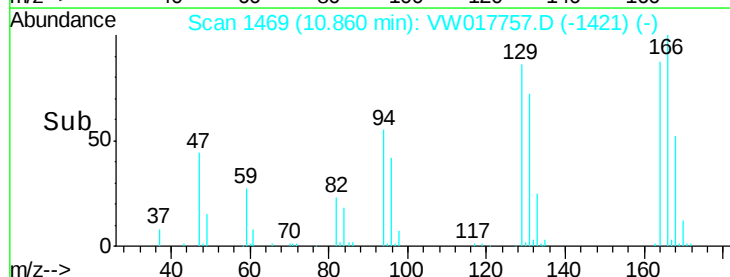
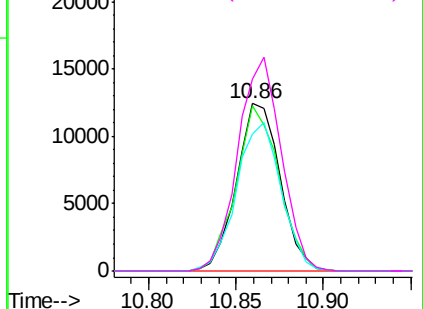


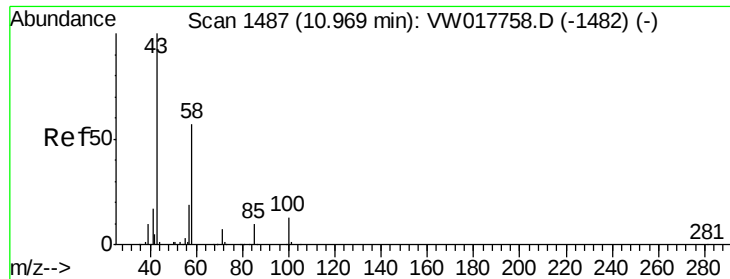
Abundance Ion 164.00 (163.70 to 164.70): V

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

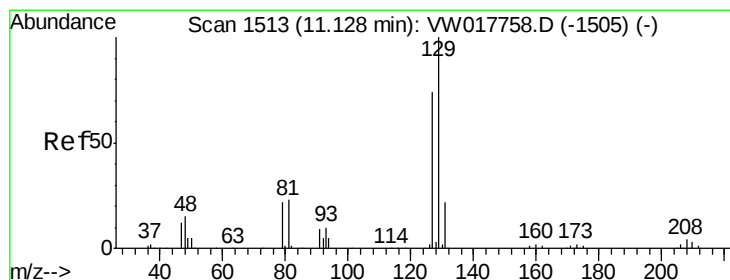
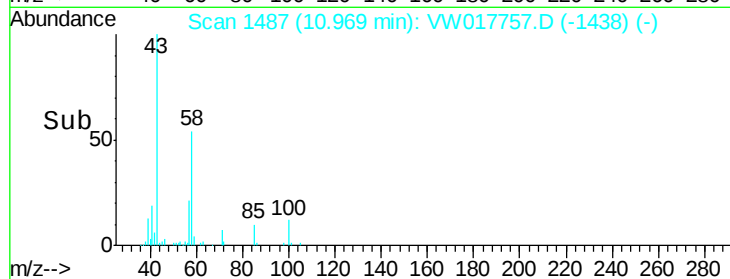
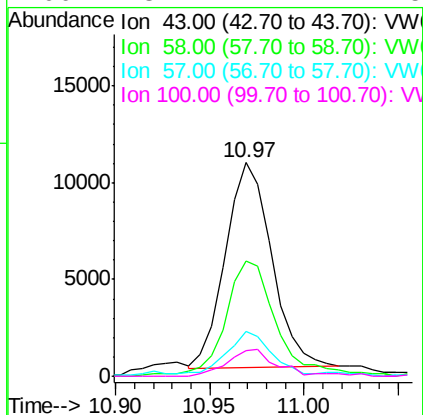
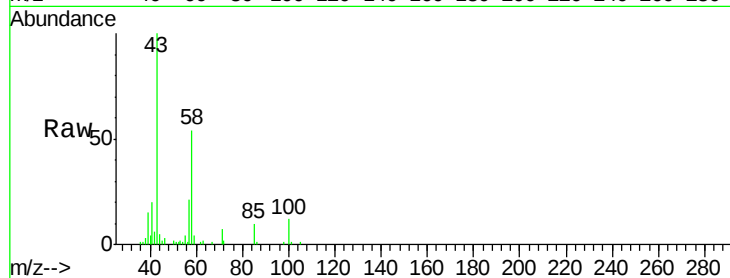




#48  
2-Hexanone  
Concen: 9.755 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

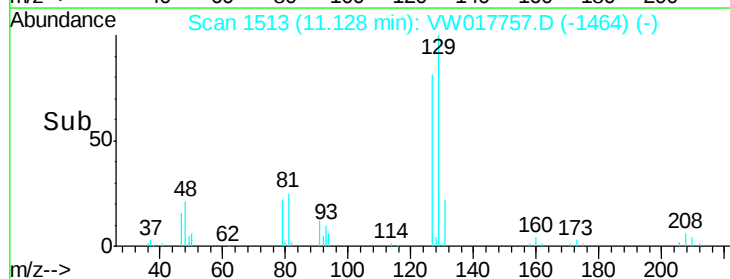
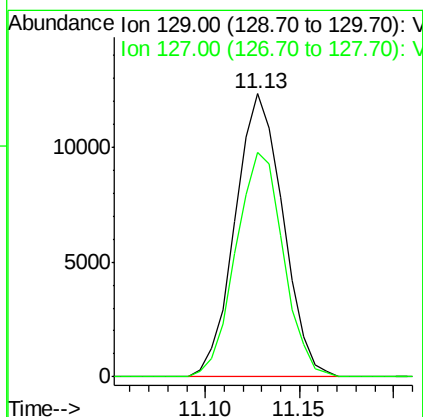
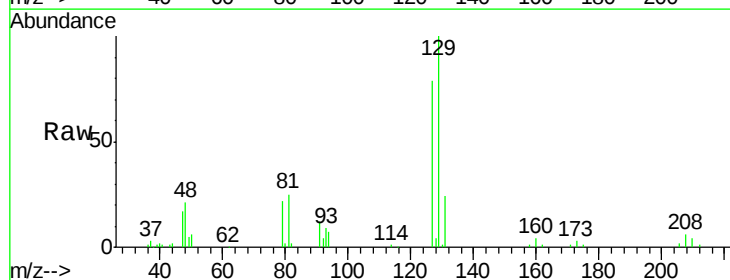
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

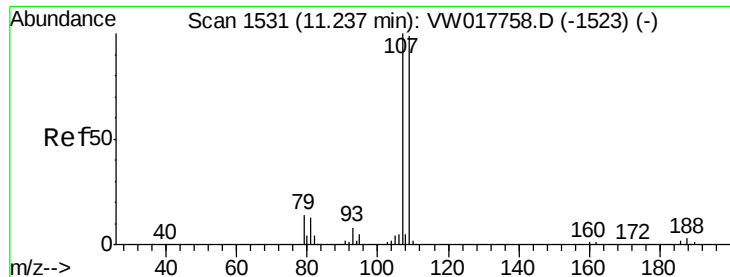
Tgt Ion: 43 Resp: 18004  
Ion Ratio Lower Upper  
43 100  
58 61.8 46.8 70.2  
57 21.5 14.6 22.0  
100 13.2 11.7 17.5



#49  
Dibromochloromethane  
Concen: 4.657 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion: 129 Resp: 21735  
Ion Ratio Lower Upper  
129 100  
127 79.3 51.6 95.8

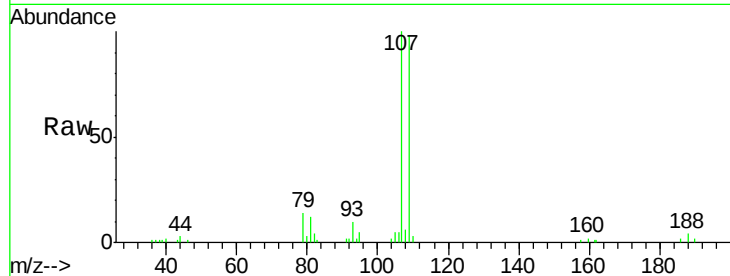




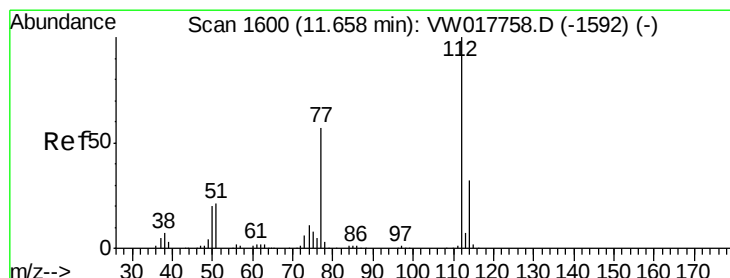
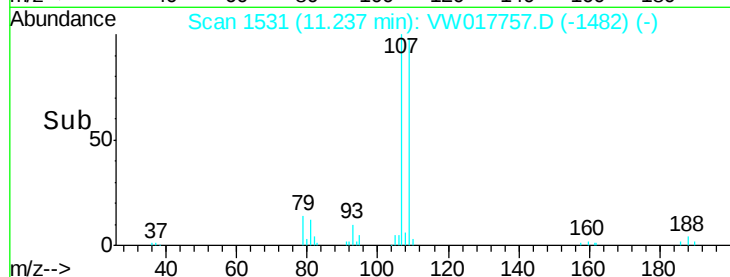
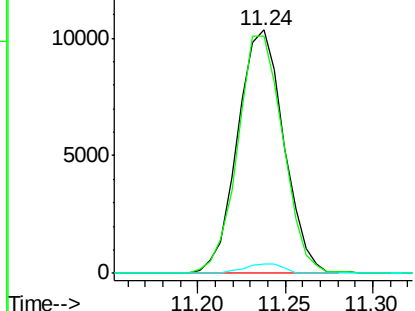
#50  
1,2-Dibromoethane  
Concen: 5.152 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

Tgt Ion:107 Resp: 19074  
Ion Ratio Lower Upper  
107 100  
109 97.6 69.3 128.7  
188 3.9 2.7 4.1

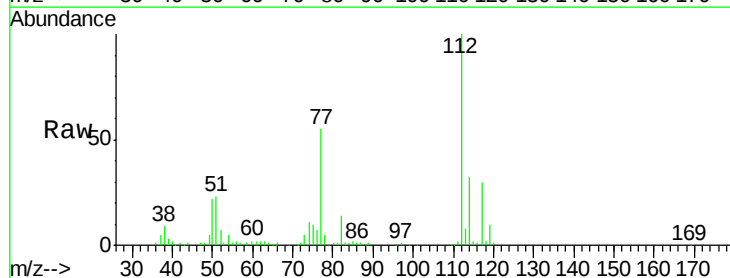


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

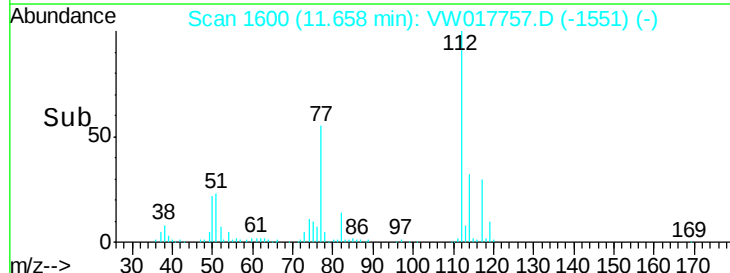
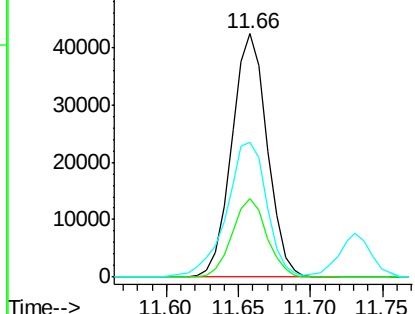


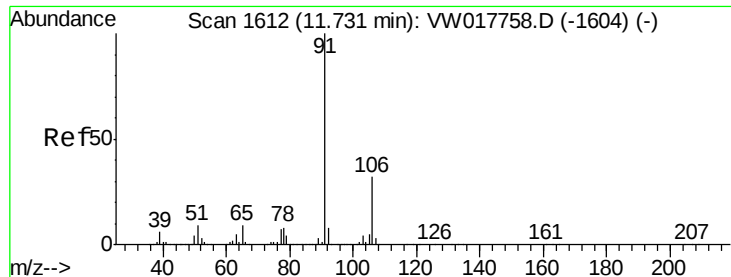
#51  
Chlorobenzene  
Concen: 5.184 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion:112 Resp: 72616  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.3 41.3  
77 55.2 45.8 68.6



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 5.382 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

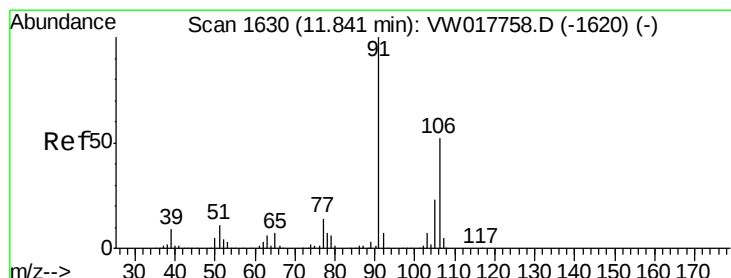
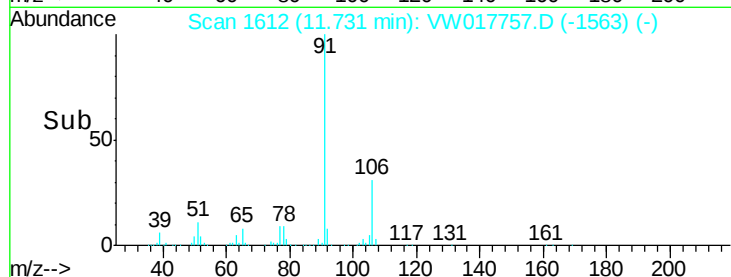
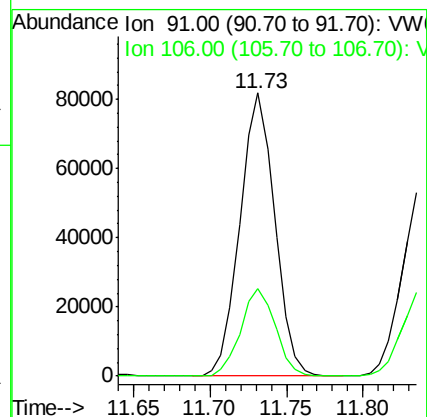
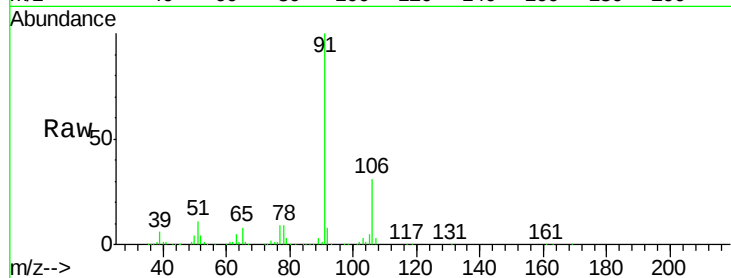
VSTD005103

Tgt Ion: 91 Resp: 129356

Ion Ratio Lower Upper

91 100

106 31.0 22.7 42.1



#53

m,p-Xylene

Concen: 5.203 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW017757.D

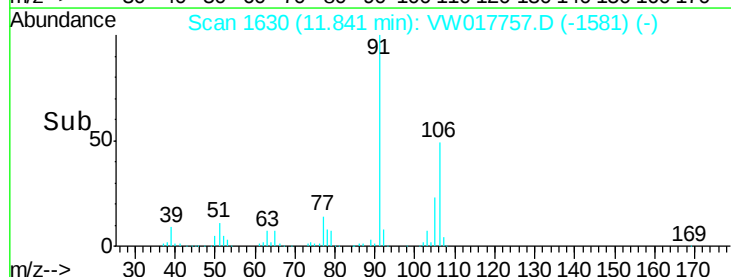
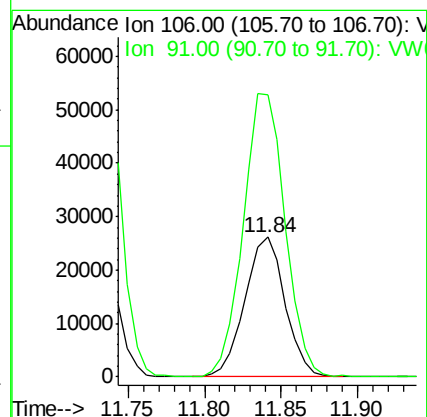
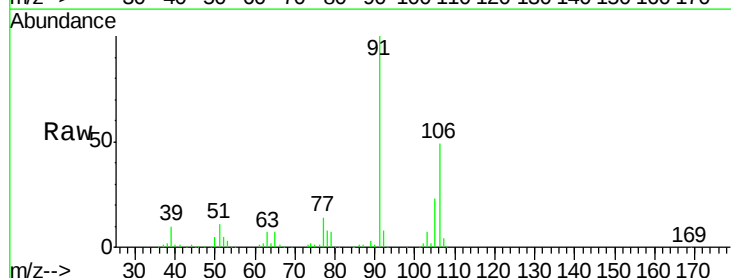
Acq: 28 Dec 2020 11:25

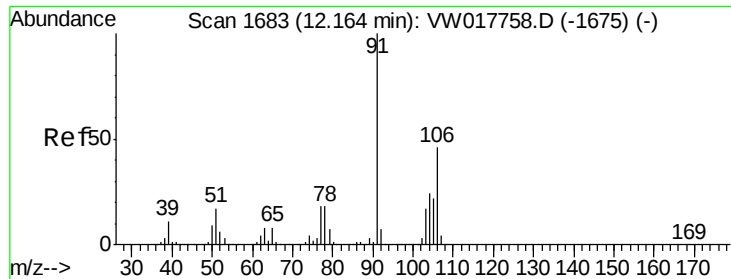
Tgt Ion: 106 Resp: 47686

Ion Ratio Lower Upper

106 100

91 202.1 135.6 251.8

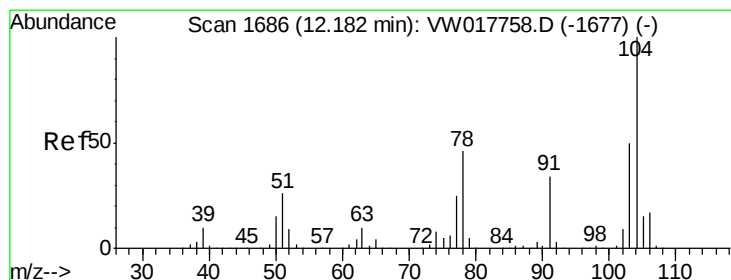
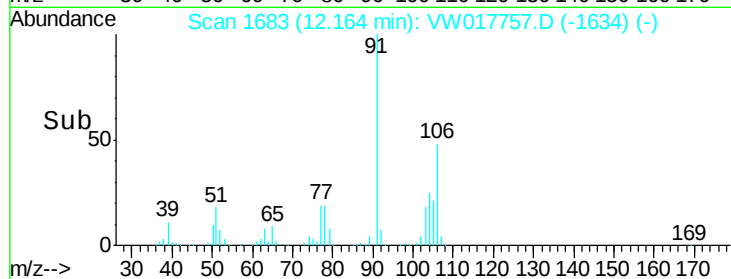
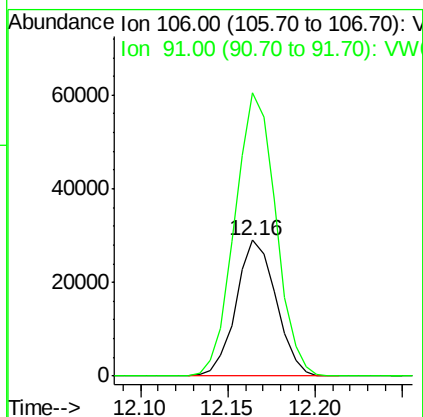
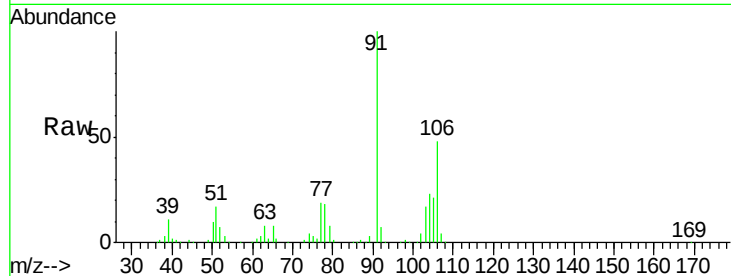




#54  
o-Xylene  
Concen: 5.324 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

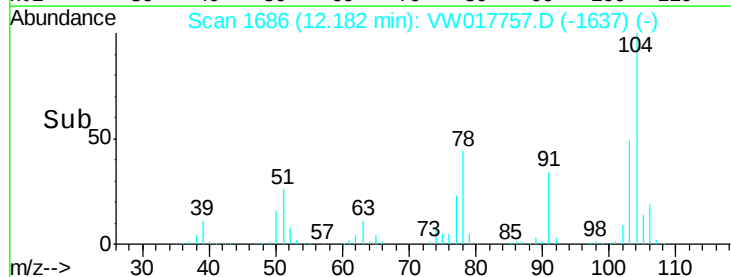
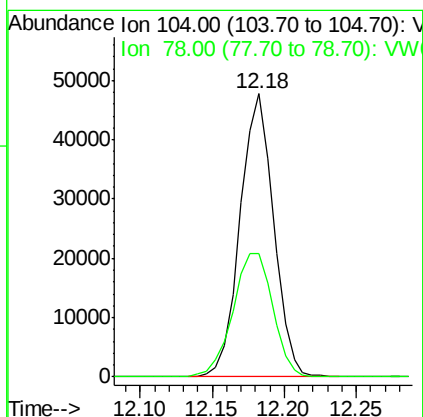
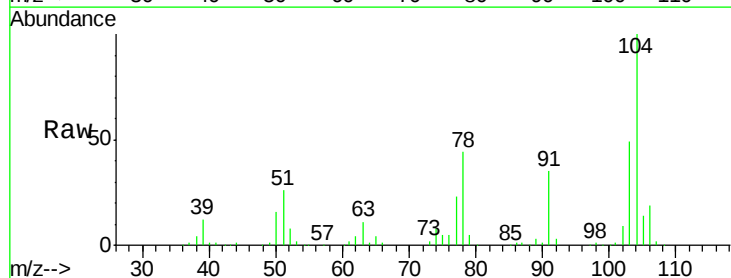
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD005103

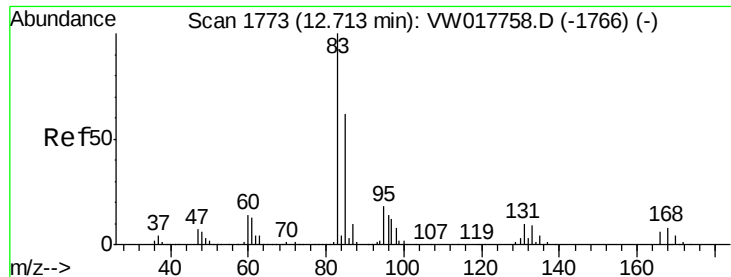
Tgt Ion:106 Resp: 46214  
Ion Ratio Lower Upper  
106 100  
91 208.2 152.2 282.6



#55  
Styrene  
Concen: 5.203 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion:104 Resp: 77135  
Ion Ratio Lower Upper  
104 100  
78 43.6 31.9 59.3





#57

1,1,2,2-Tetrachloroethane

Concen: 5.203 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampleId :

VSTD005103

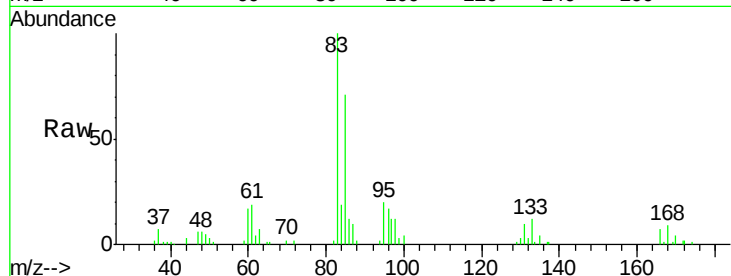
Tgt Ion: 83 Resp: 23192

Ion Ratio Lower Upper

83 100

85 71.4 43.5 80.7

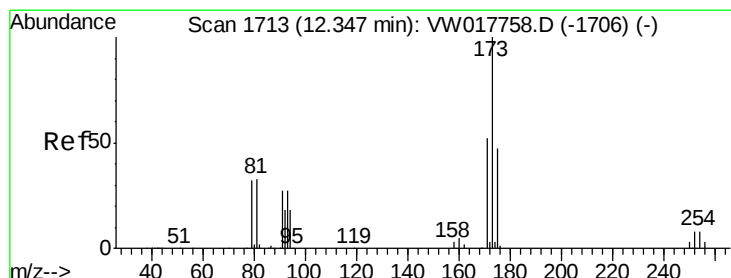
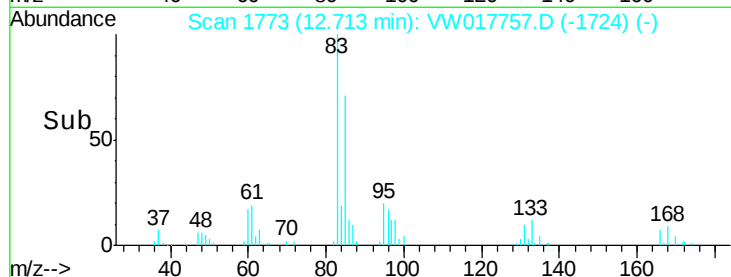
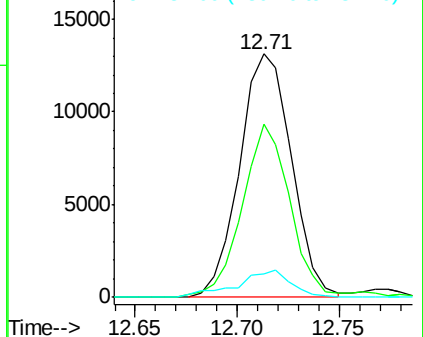
131 9.7 8.2 12.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

Bromoform

Concen: 4.101 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

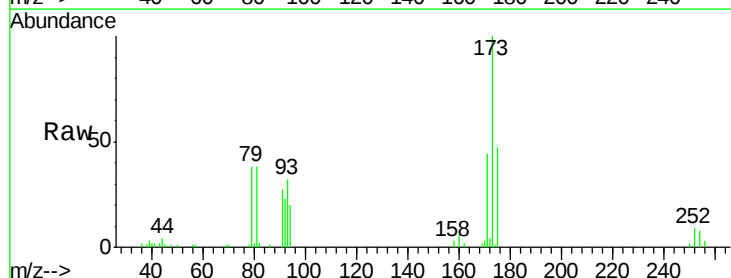
Tgt Ion: 173 Resp: 11207

Ion Ratio Lower Upper

173 100

175 48.5 38.0 57.0

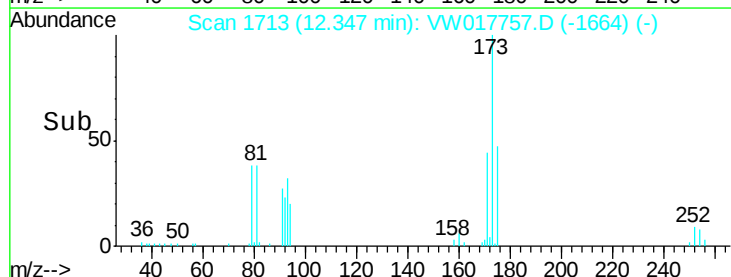
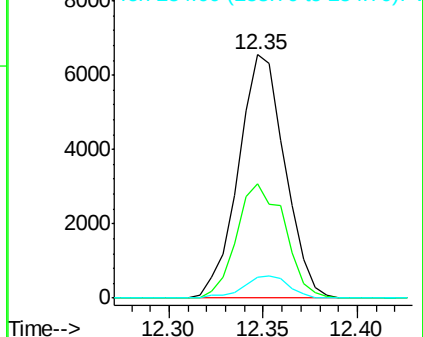
254 8.9 4.8 7.2#

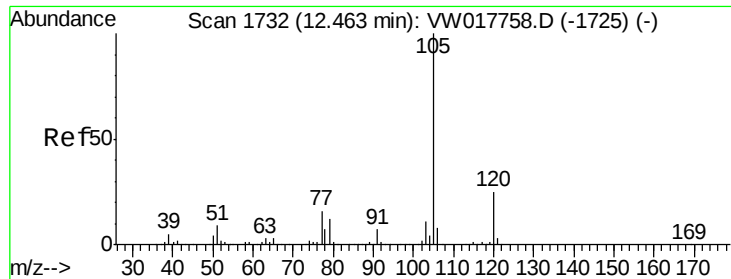


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#60

Isopropylbenzene

Concen: 5.264 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

Instrument :

MSVOA\_W

ClientSampled :

VSTD005103

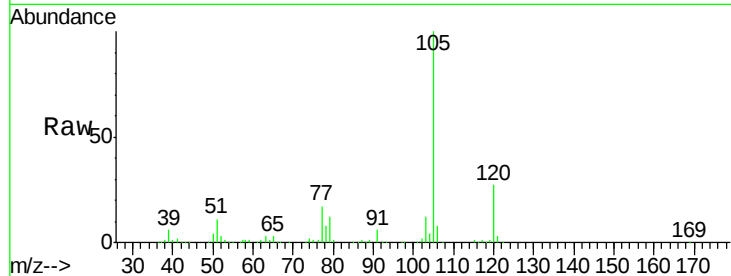
Tgt Ion: 105 Resp: 125626

Ion Ratio Lower Upper

105 100

120 25.6 21.2 31.8

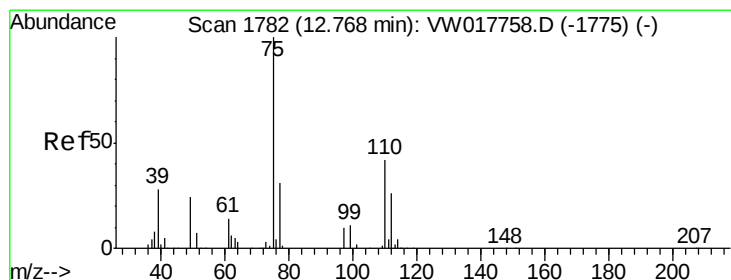
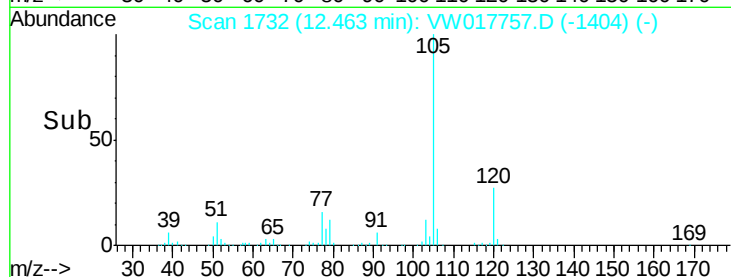
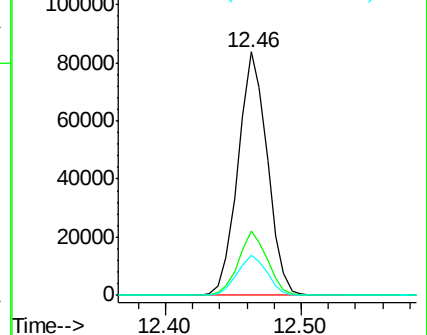
77 16.8 12.9 19.3



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: 5.474 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW017757.D

Acq: 28 Dec 2020 11:25

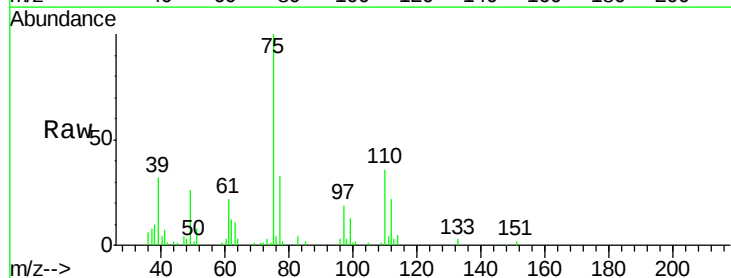
Tgt Ion: 75 Resp: 18295

Ion Ratio Lower Upper

75 100

77 34.7 25.7 38.5

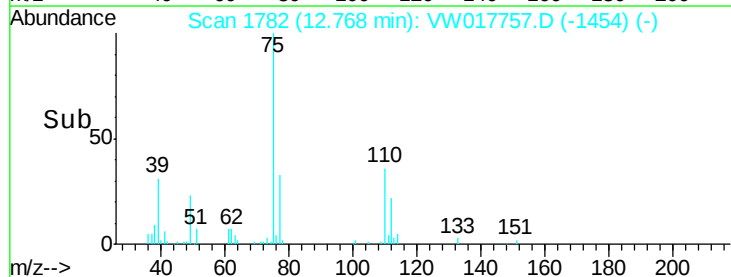
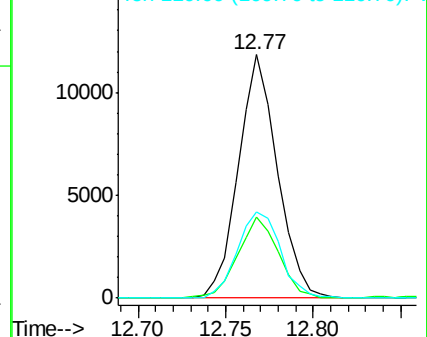
110 39.3 33.0 49.6

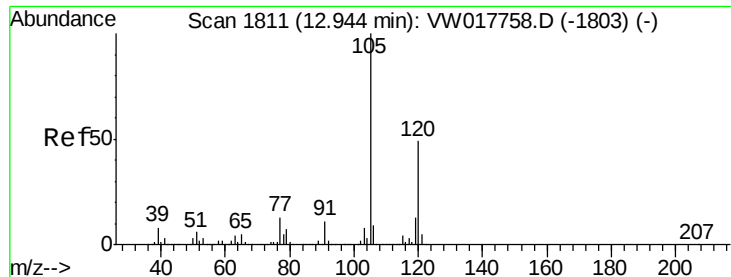


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 110.00 (109.70 to 110.70): V

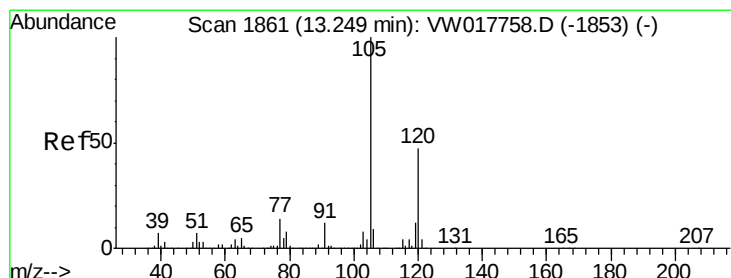
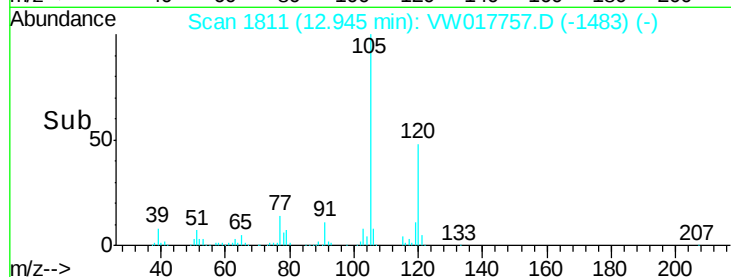
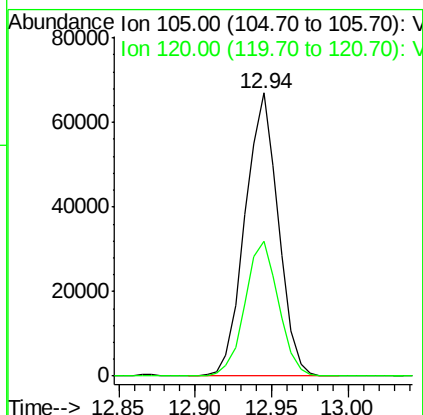
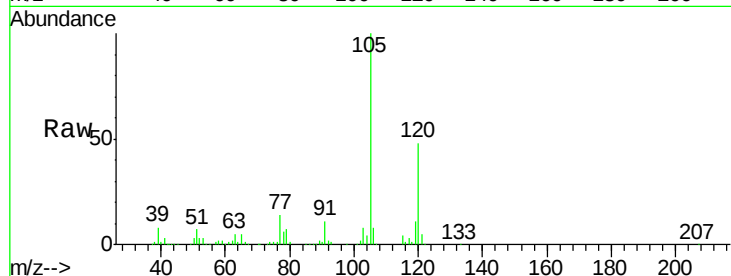




#62  
 1,3,5-Trimethylbenzene  
 Concen: 5.191 ug/L  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

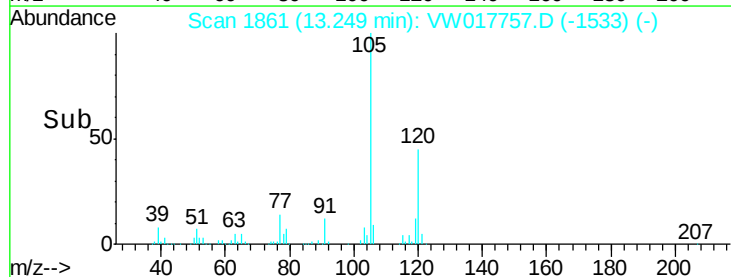
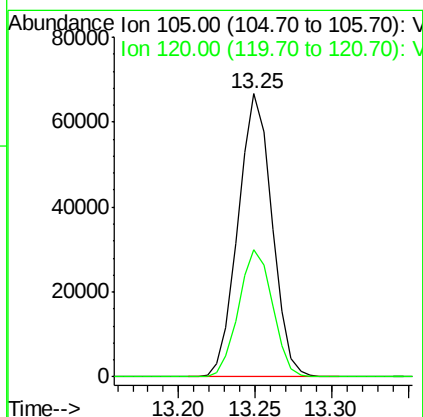
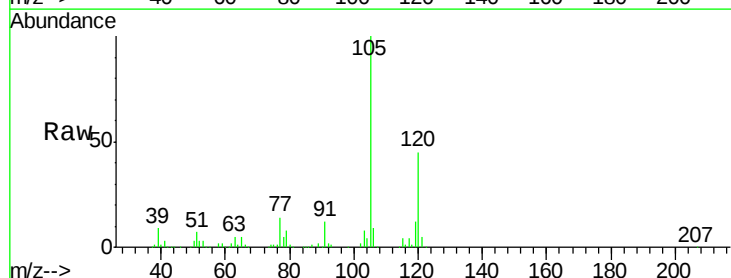
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

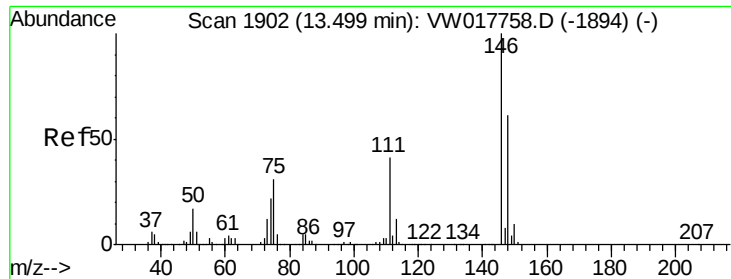
Tgt Ion:105 Resp: 101059  
 Ion Ratio Lower Upper  
 105 100  
 120 48.1 38.7 58.1



#63  
 1,2,4-Trimethylbenzene  
 Concen: 5.319 ug/L  
 RT: 13.25 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Tgt Ion:105 Resp: 102460  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 37.5 56.3

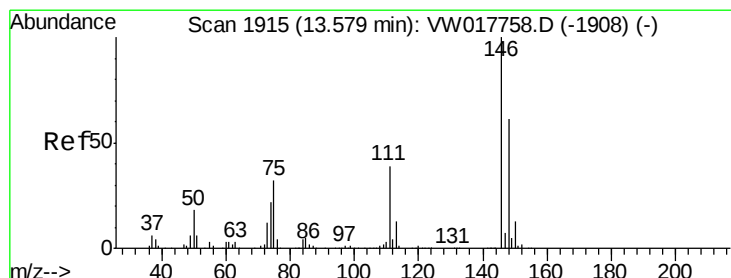
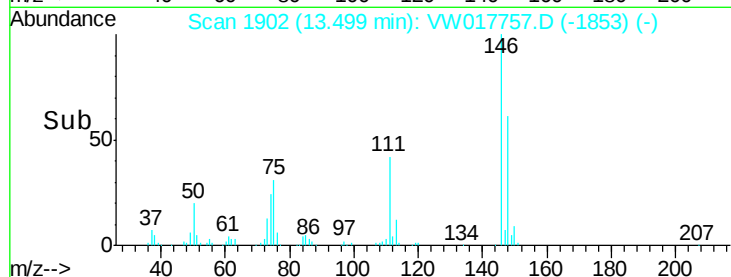
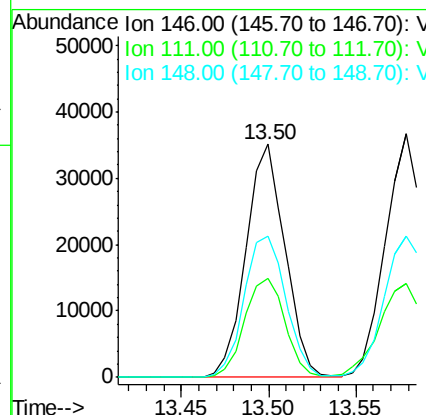
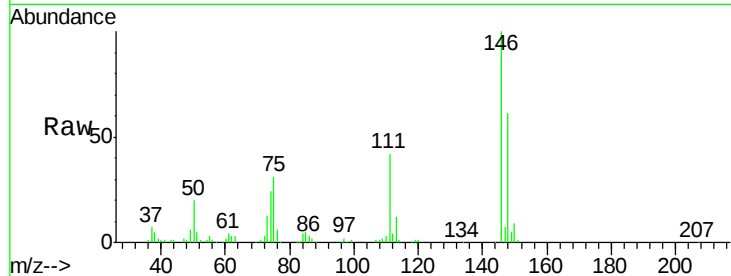




#64  
 1,3-Dichlorobenzene  
 Concen: 4.885 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

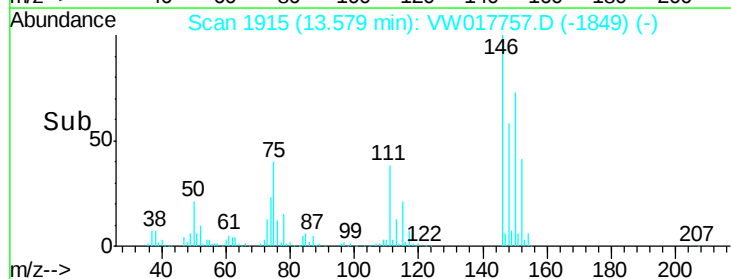
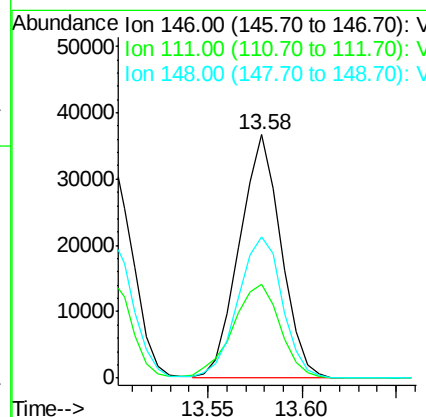
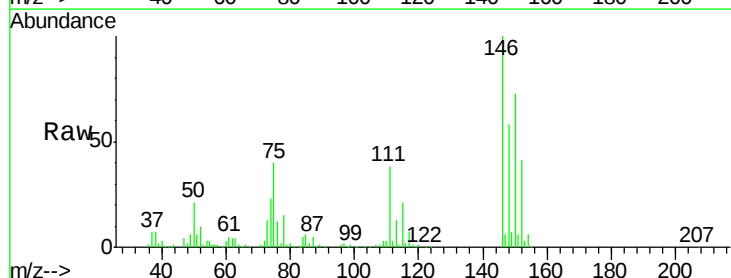
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

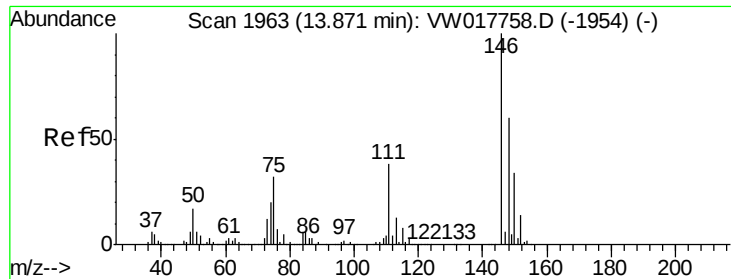
Tgt Ion:146 Resp: 54648  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 28.8 53.6  
 148 60.8 43.0 80.0



#65  
 1,4-Dichlorobenzene  
 Concen: 4.968 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Tgt Ion:146 Resp: 56370  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 27.6 51.2  
 148 58.0 42.4 78.6

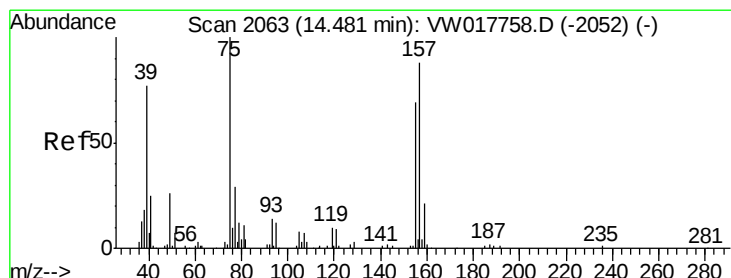
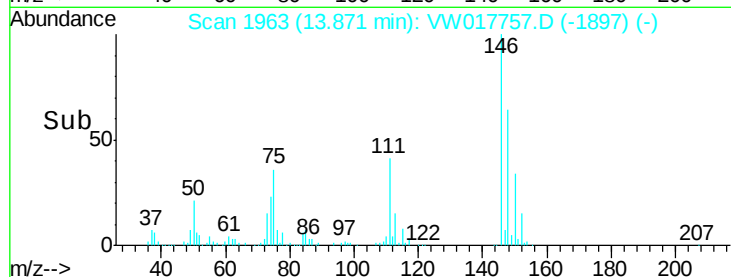
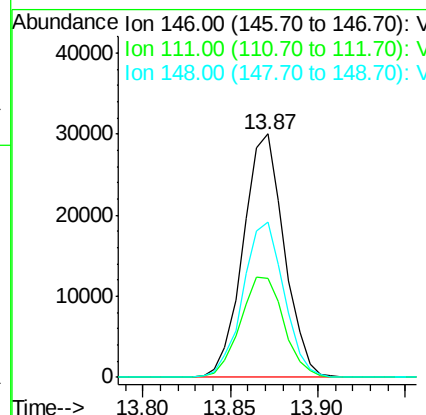
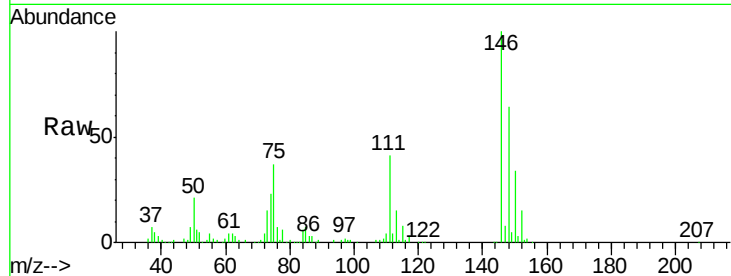




#67  
 1,2-Dichlorobenzene  
 Concen: 4.810 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

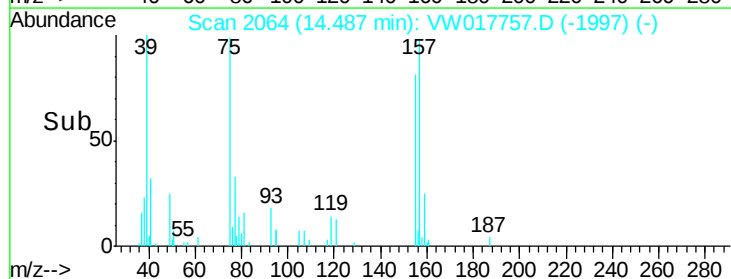
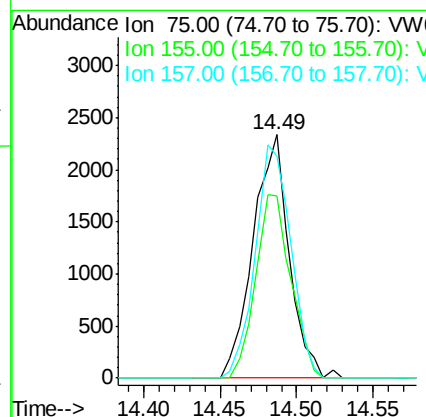
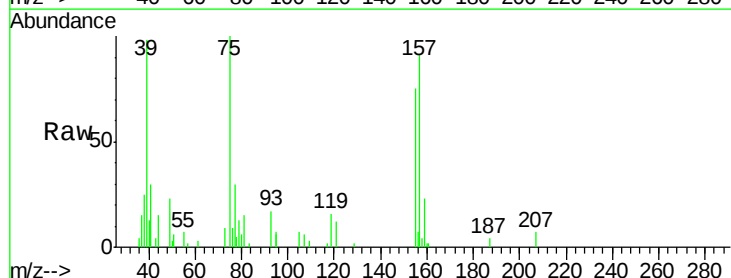
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

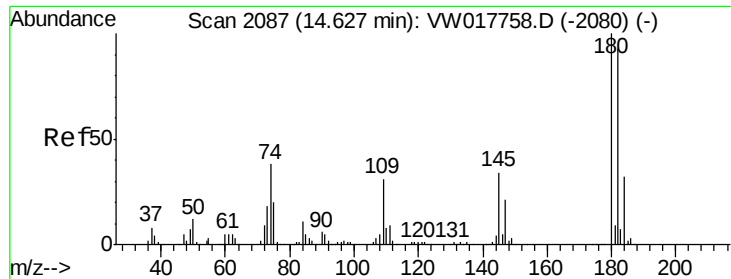
Tgt Ion: 146 Resp: 48952  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 30.6 45.8  
 148 63.9 48.1 72.1



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.019 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.01 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Tgt Ion: 75 Resp: 3833  
 Ion Ratio Lower Upper  
 75 100  
 155 74.7 54.9 82.3  
 157 90.9 70.4 105.6

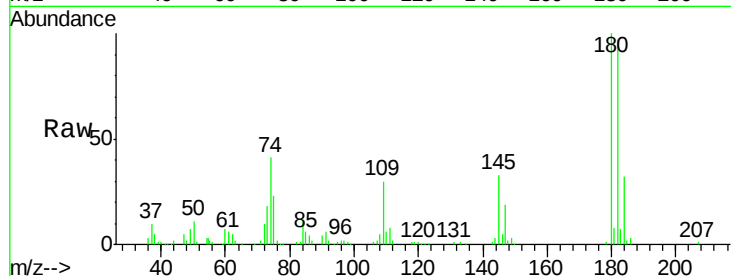




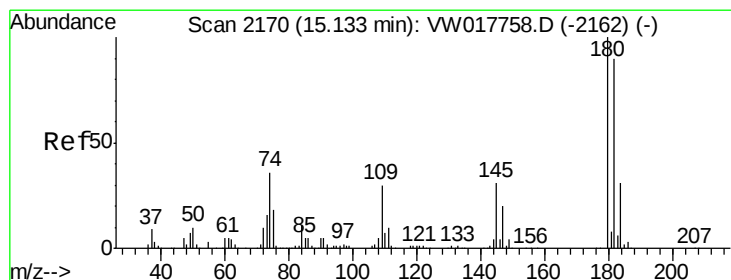
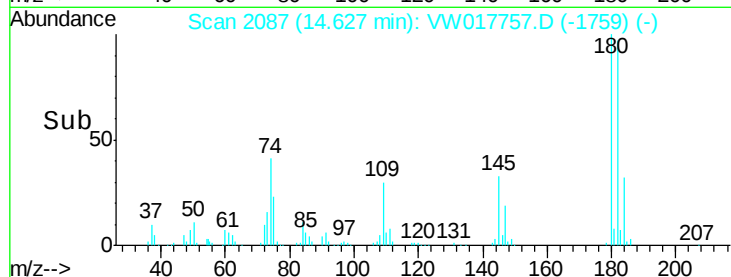
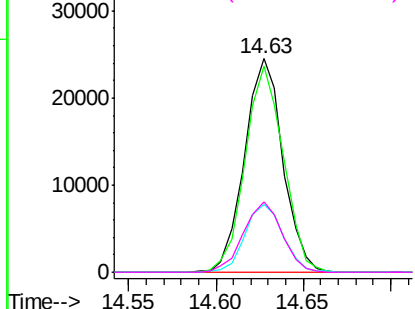
#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.663 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD005103

Tgt Ion:180 Resp: 37353  
 Ion Ratio Lower Upper  
 180 100  
 182 96.3 76.1 114.1  
 184 31.6 24.2 36.4  
 145 33.6 25.6 38.4

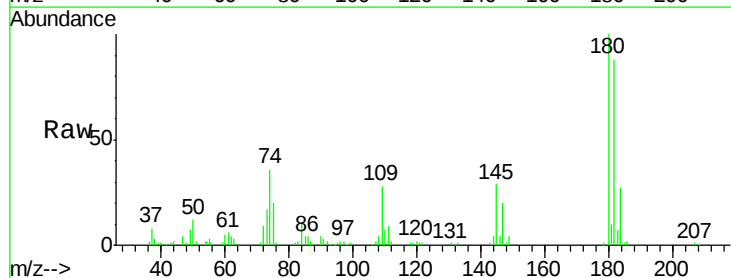


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

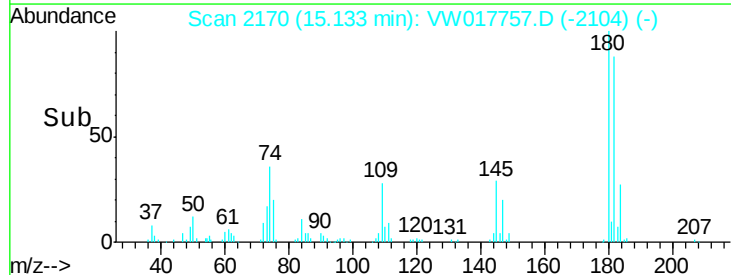
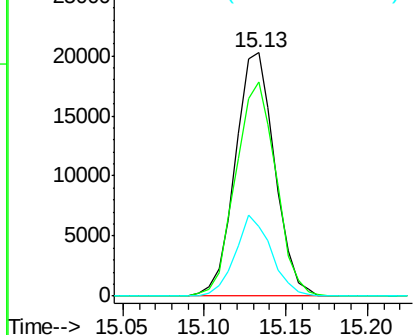


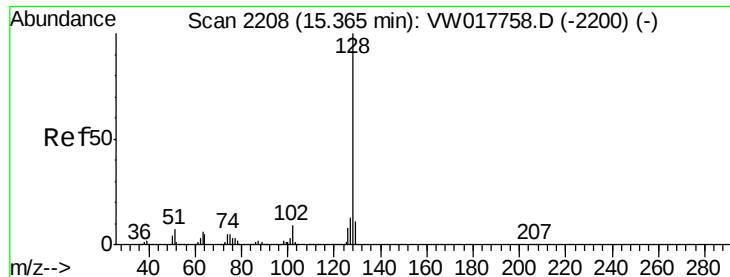
#70  
 1,2,4-trichlorobenzene  
 Concen: 5.031 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW017757.D  
 Acq: 28 Dec 2020 11:25

Tgt Ion:180 Resp: 34104  
 Ion Ratio Lower Upper  
 180 100  
 182 89.6 72.3 108.5  
 145 30.3 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

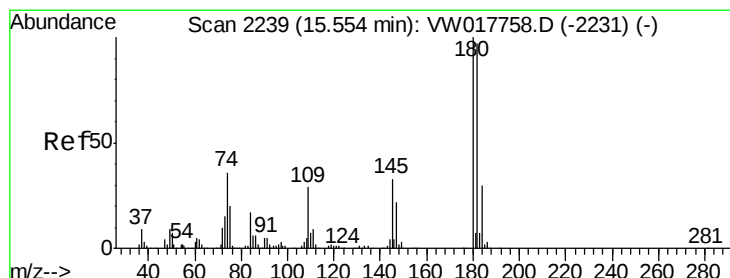
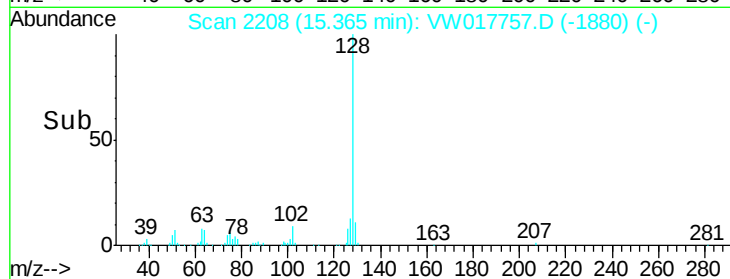
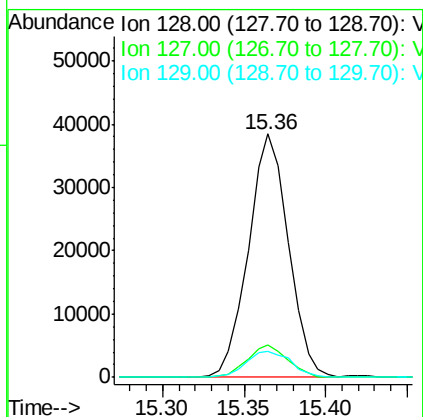
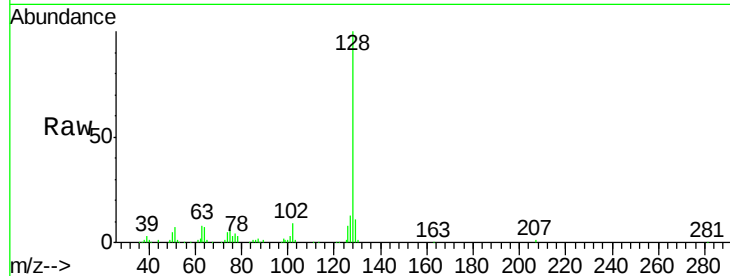




#71  
Naphthalene  
Concen: 5.503 ug/L  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD005103

Tgt Ion:128 Resp: 65645  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.6 16.0  
129 12.1 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 4.795 ug/L  
RT: 15.55 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VW017757.D  
Acq: 28 Dec 2020 11:25

Tgt Ion:180 Resp: 28228  
Ion Ratio Lower Upper  
180 100  
182 93.7 74.5 111.7  
145 35.0 27.1 40.7

