

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW072020\  
 Data File : VW015872.D  
 Acq On : 20 Jul 2020 12:34  
 Operator : SY/VA  
 Sample : VSTD05003  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

Quant Time: Jul 20 13:03:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 20 12:42:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 458042   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 418126   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 197454   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 283183  | 37.08  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 244309  | 32.71  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 609617  | 53.97  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 169135  | 129.39 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 600541  | 47.79  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 332551  | 49.28  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 1189386 | 50.46  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 360456  | 53.24  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 1083823 | 48.61  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 157193  | 53.96  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 134411  | 134.72 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 283717  | 52.38  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 365089  | 49.05  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |              | Qvalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 181776  | 54.965 ug/L  | 97     |
| 3) Chloromethane               | 2.21  | 50  | 221570  | 44.802 ug/L  | 99     |
| 5) Vinyl chloride              | 2.37  | 62  | 339395  | 40.274 ug/L  | 99     |
| 6) Bromomethane                | 2.78  | 94  | 202986  | 28.309 ug/L  | 98     |
| 8) Chloroethane                | 2.93  | 64  | 207697  | 35.225 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 239574  | 30.690 ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 292314  | 54.509 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 288075  | 56.699 ug/L  | 87     |
| 13) Acetone                    | 4.13  | 43  | 134303  | 130.565 ug/L | 99     |
| 14) Carbon disulfide           | 4.38  | 76  | 903013  | 54.670 ug/L  | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 136205  | 65.977 ug/L  | 99     |
| 16) Methylene chloride         | 4.91  | 84  | 305530  | 48.507 ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 426003  | 56.120 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 307199  | 51.228 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 564918  | 53.528 ug/L  | 99     |
| 21) 2-Butanone                 | 7.18  | 43  | 178475  | 130.632 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 329715  | 52.239 ug/L  | 99     |
| 23) Bromochloromethane         | 7.52  | 128 | 147708  | 52.585 ug/L  | 94     |
| 25) Chloroform                 | 7.68  | 83  | 567488  | 50.474 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 381905  | 51.767 ug/L  | 99     |
| 30) Cyclohexane                | 7.96  | 56  | 531610  | 59.254 ug/L  | 100    |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97  | 476773  | 50.719 ug/L  | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 441015  | 50.561 ug/L  | 98     |
| 34) Benzene                    | 8.33  | 78  | 1242901 | 52.252 ug/L  | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 331094  | 51.641 ug/L  | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 579115  | 52.836 ug/L  | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 308311  | 54.169 ug/L  | 100    |
| 41) Bromodichloromethane       | 9.65  | 83  | 409297  | 53.350 ug/L  | 98     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 503836  | 59.057 ug/L  | 100    |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 385703  | 137.791 ug/L | 99     |

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 Sample : VSTD05003  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

Quant Time: Jul 20 13:03:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 20 12:42:32 2020  
 Response via : Initial Calibration

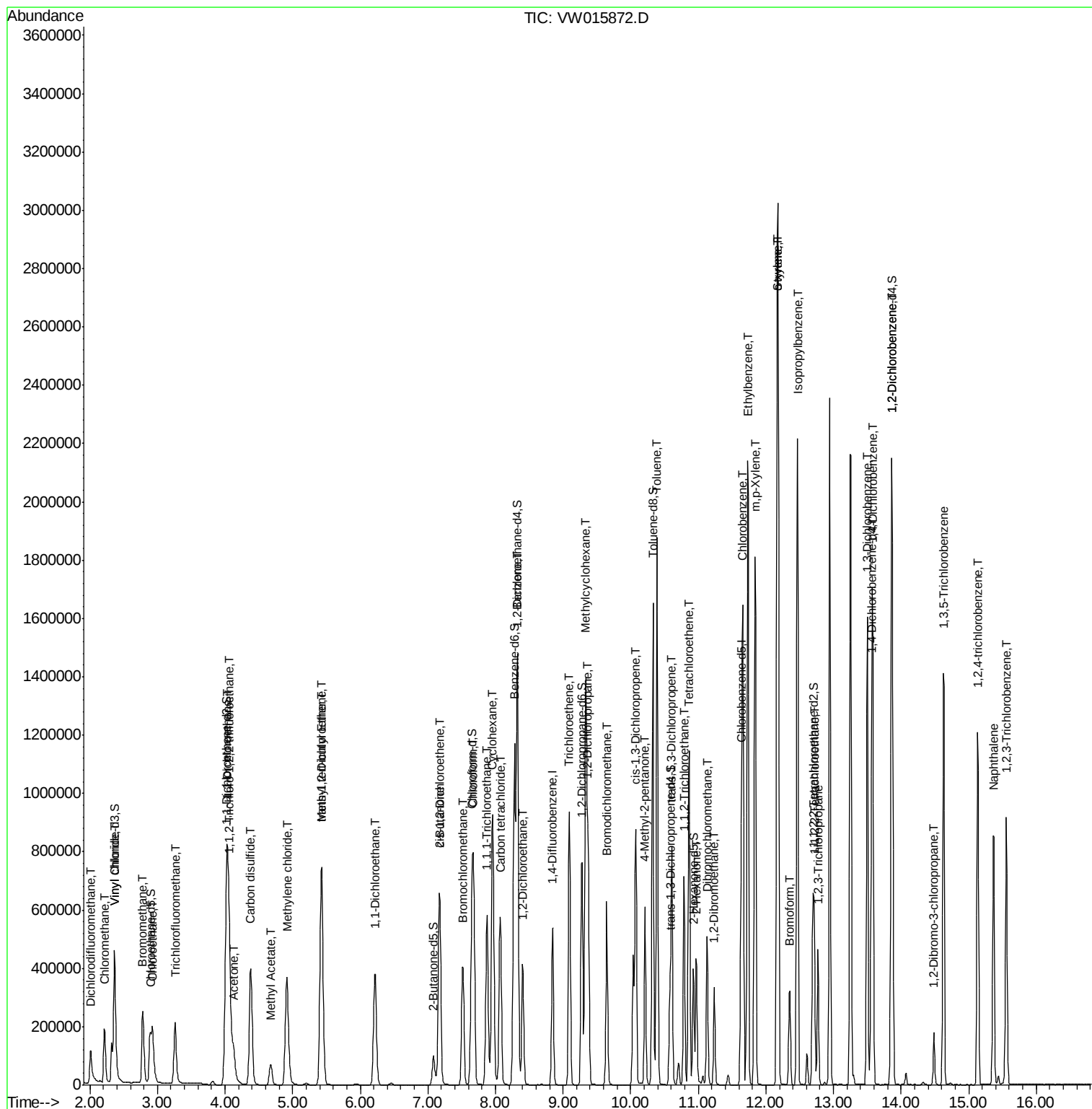
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| -----                          |       |      |          |         |       |          |
| 44) Toluene                    | 10.39 | 91   | 1342512  | 51.065  | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 439707   | 58.074  | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 229367   | 52.854  | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 248934   | 48.485  | ug/L  | 97       |
| 49) 2-Hexanone                 | 10.97 | 43   | 273199   | 137.195 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 272458   | 53.054  | ug/L  | 97       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 221776   | 54.172  | ug/L  | 95       |
| 52) Chlorobenzene              | 11.66 | 112  | 838968   | 48.802  | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 1522849  | 51.344  | ug/L  | 97       |
| 54) m,p-Xylene                 | 11.84 | 106  | 573071   | 50.655  | ug/L  | 96       |
| 55) o-xylene                   | 12.17 | 106  | 541680   | 50.643  | ug/L  | 98       |
| 56) Styrene                    | 12.18 | 104  | 938696   | 51.913  | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.47 | 105  | 1449222  | 49.246  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 271466   | 54.733  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 200279   | 54.919  | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 152936   | 56.117  | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 646466   | 51.891  | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 636264   | 50.367  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 567429   | 49.692  | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 45344    | 61.885  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 441439   | 52.377  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 373113   | 56.454  | ug/L  | 99       |
| 69) Naphthalene                | 15.37 | 128  | 735874   | 62.179  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 316308   | 53.305  | ug/L  | 97       |
| -----                          |       |      |          |         |       |          |

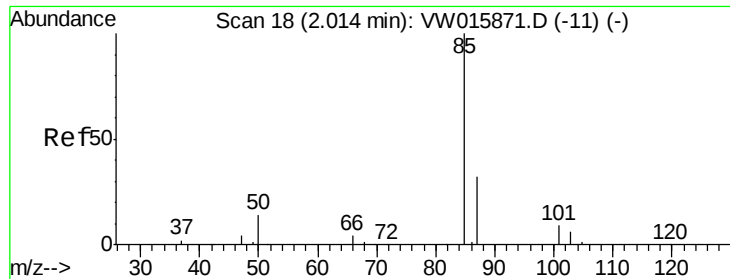
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VSTD05003

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Quant Title : VOC Analysis  
QLast Update : Mon Jul 20 12:42:32 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 54.965 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

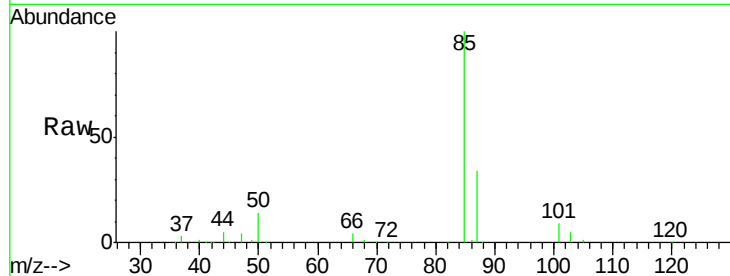
VSTD05003

Tgt Ion: 85 Resp: 181776

Ion Ratio Lower Upper

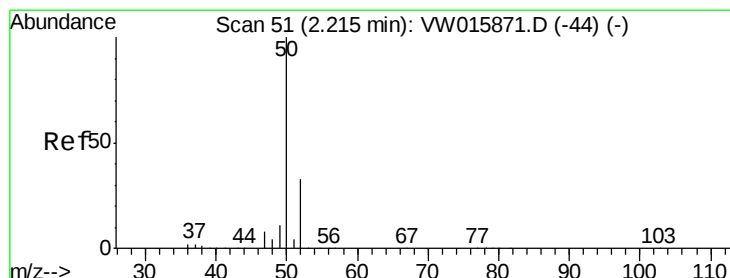
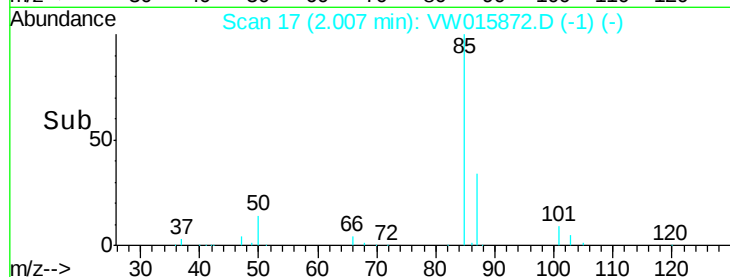
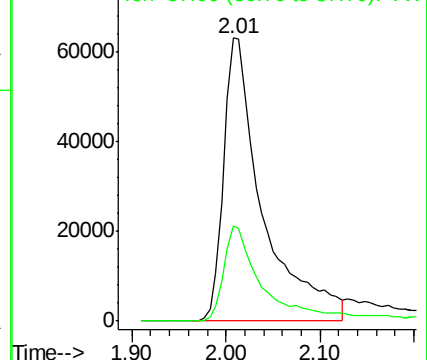
85 100

87 31.9 21.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 44.802 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015872.D

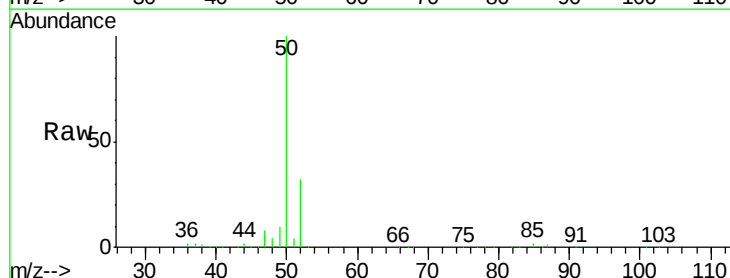
Acq: 20 Jul 2020 12:34

Tgt Ion: 50 Resp: 221570

Ion Ratio Lower Upper

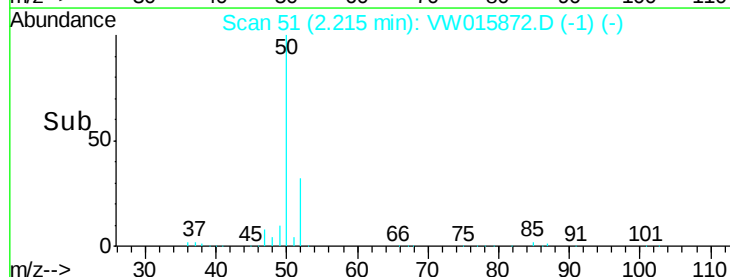
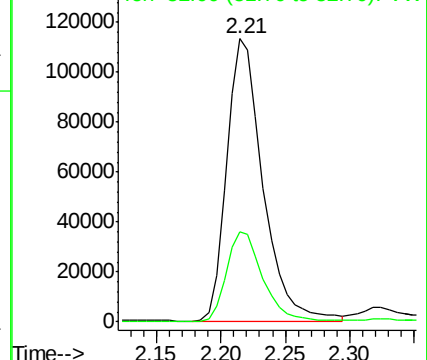
50 100

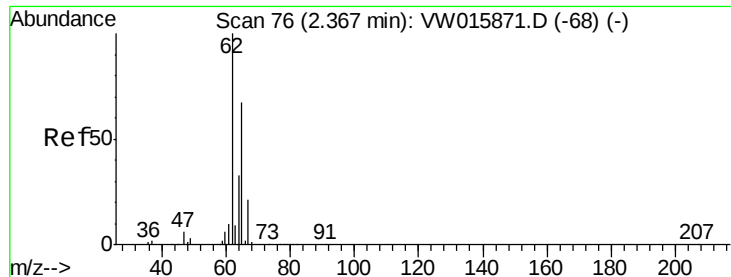
52 32.0 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 40.274 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

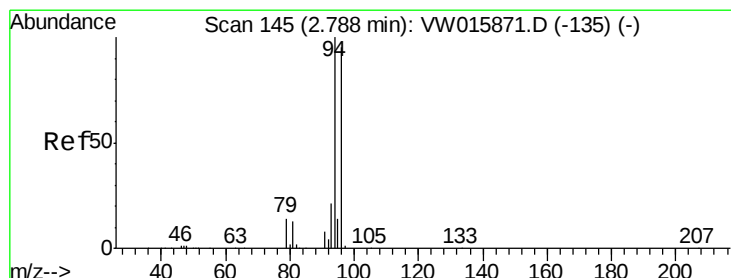
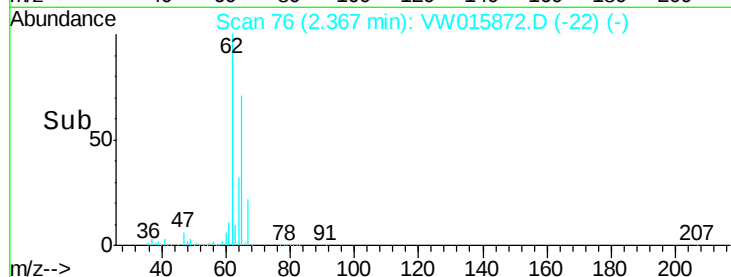
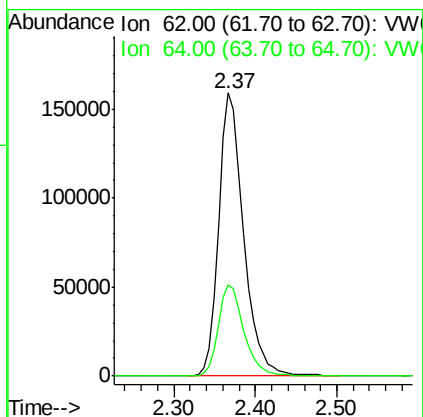
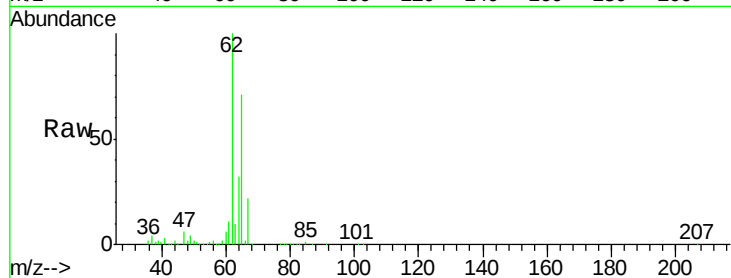
VSTD05003

Tgt Ion: 62 Resp: 339395

Ion Ratio Lower Upper

62 100

64 32.4 23.2 43.0



#6

Bromomethane

Concen: 28.309 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW015872.D

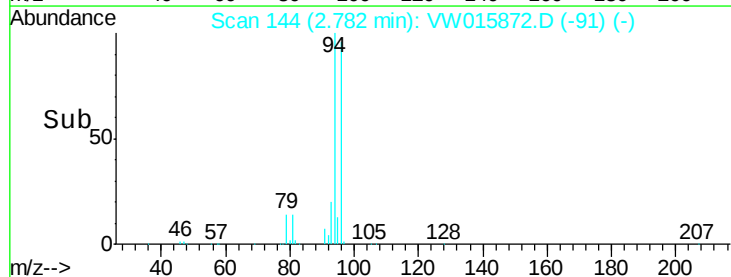
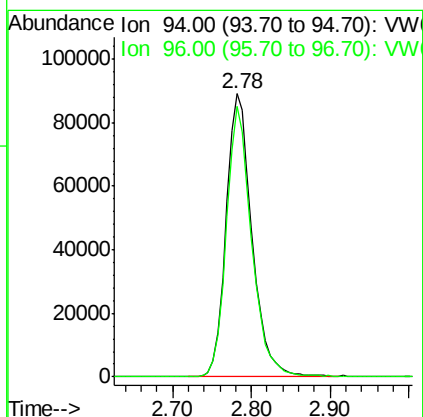
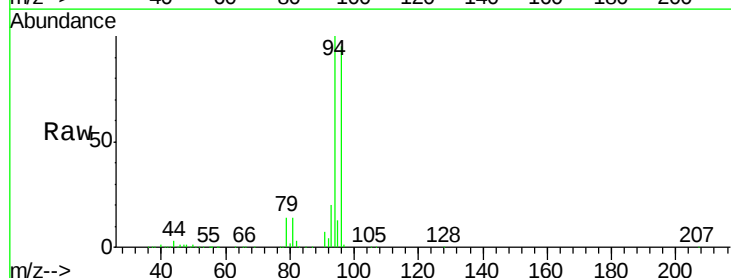
Acq: 20 Jul 2020 12:34

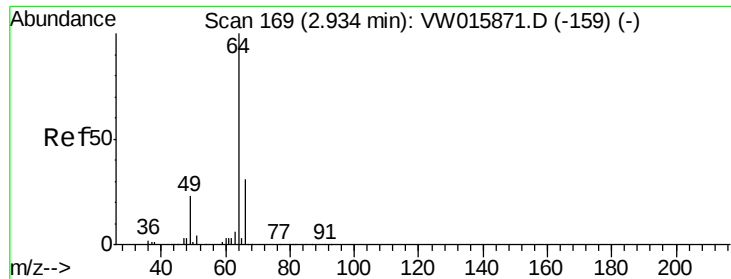
Tgt Ion: 94 Resp: 202986

Ion Ratio Lower Upper

94 100

96 93.2 9.5 180.1

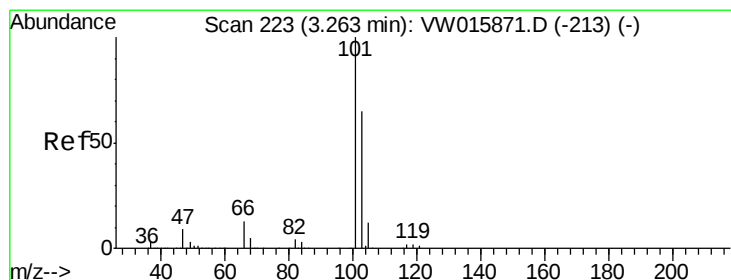
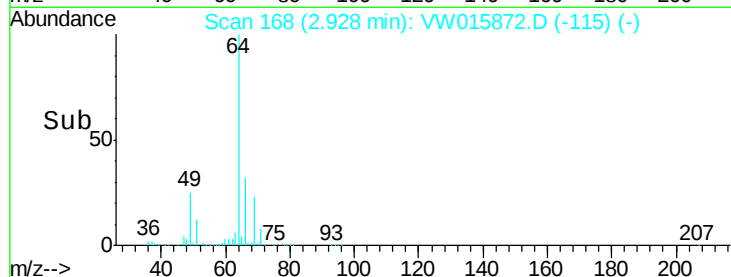
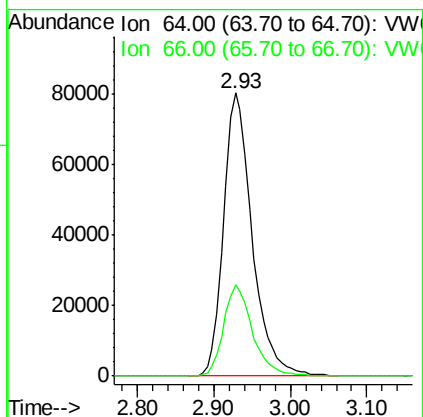
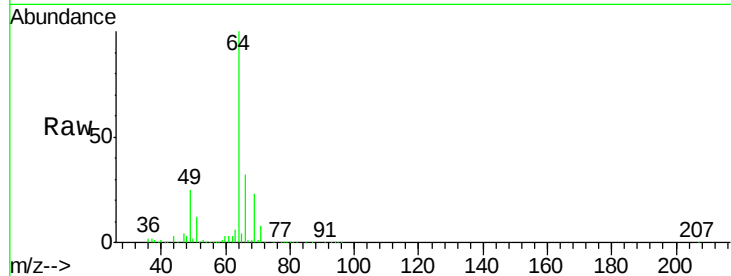




#8  
Chloroethane  
Concen: 35.225 ug/L  
RT: 2.93 min Scan# 168  
Delta R.T. -0.01 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

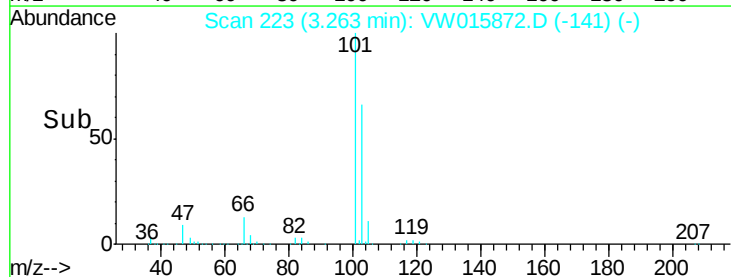
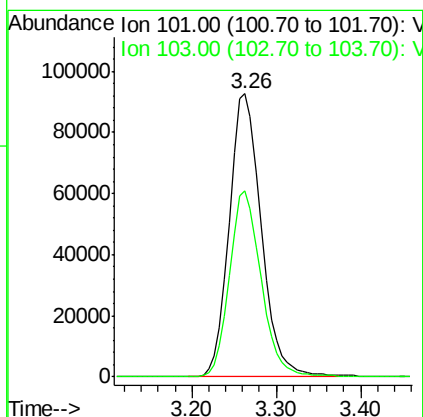
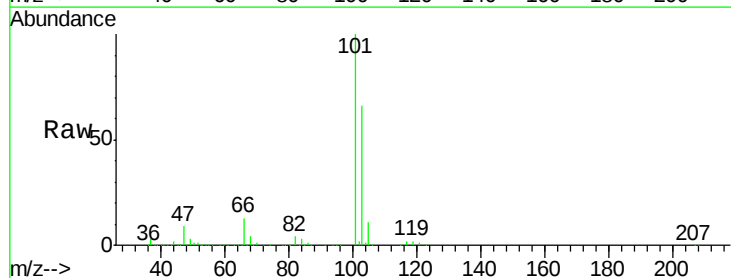
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

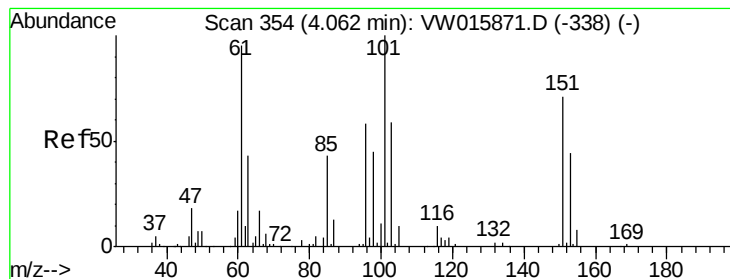
Tgt Ion: 64 Resp: 207697  
Ion Ratio Lower Upper  
64 100  
66 32.1 21.8 40.4



#9  
Trichlorofluoromethane  
Concen: 30.690 ug/L  
RT: 3.26 min Scan# 223  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 101 Resp: 239574  
Ion Ratio Lower Upper  
101 100  
103 64.8 45.8 85.2





#11

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

Concen: 54.509 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05003

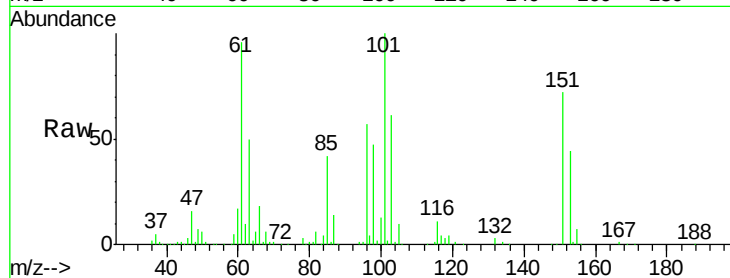
Tgt Ion: 101 Resp: 292314

Ion Ratio Lower Upper

101 100

85 42.9 35.5 53.3

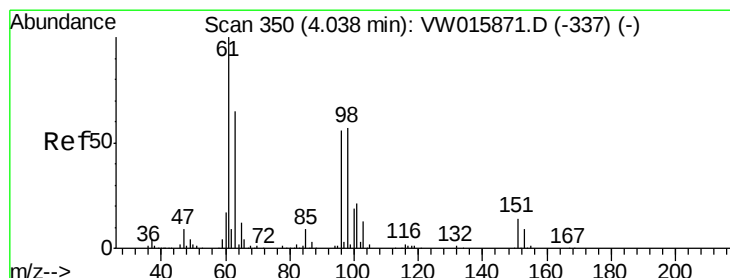
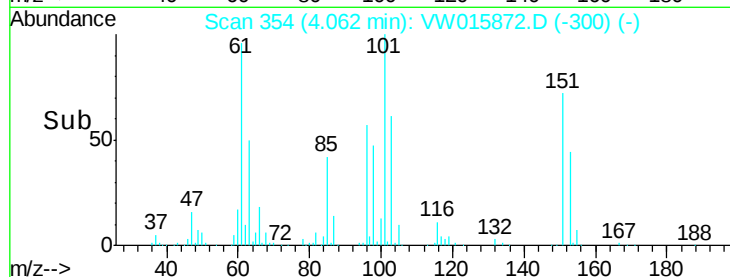
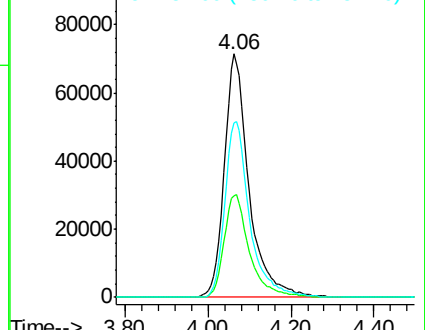
151 72.8 58.4 87.6



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: 56.699 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

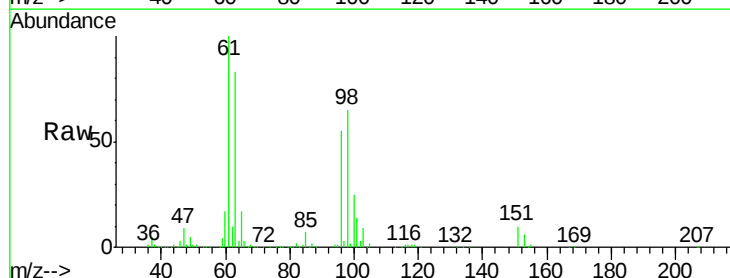
Tgt Ion: 96 Resp: 288075

Ion Ratio Lower Upper

96 100

61 182.1 125.0 232.2

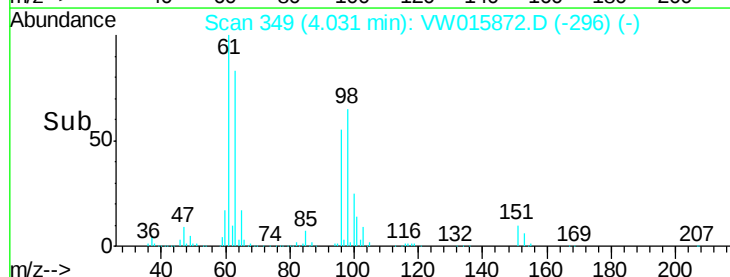
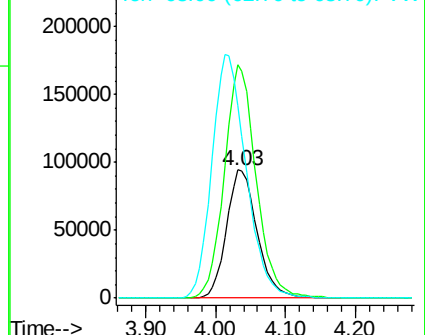
63 150.6 82.3 152.8

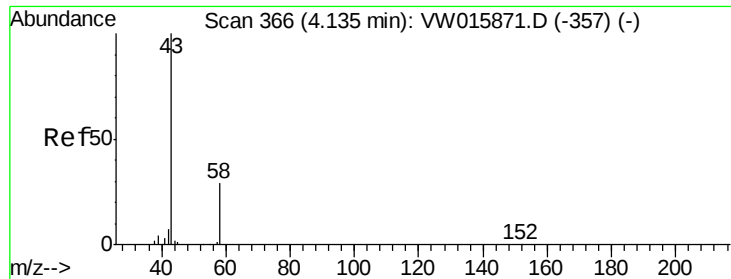


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 130.565 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampled :

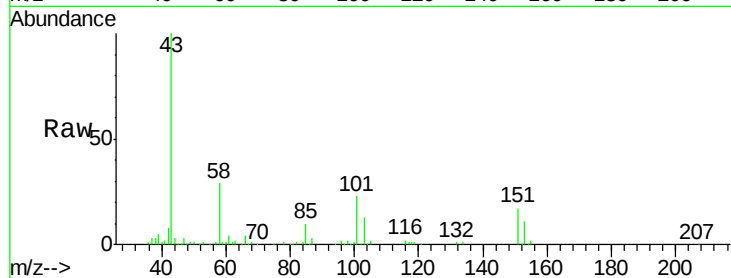
VSTD05003

Tgt Ion: 43 Resp: 134303

Ion Ratio Lower Upper

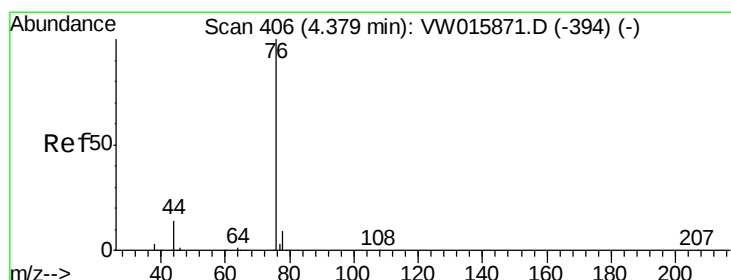
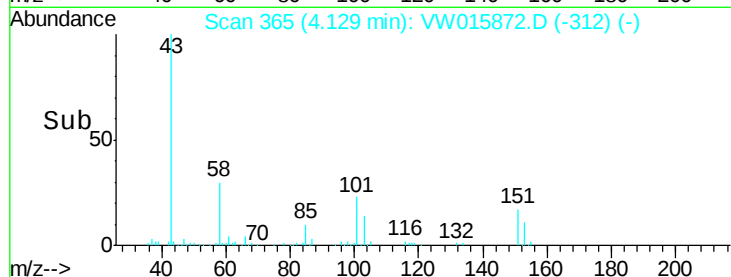
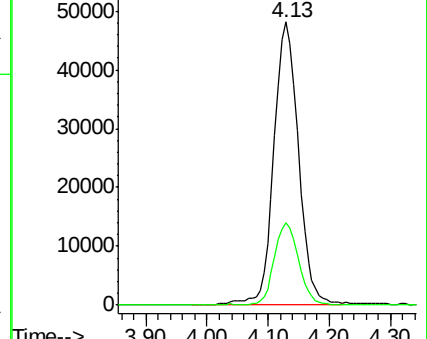
43 100

58 28.6 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 54.670 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW015872.D

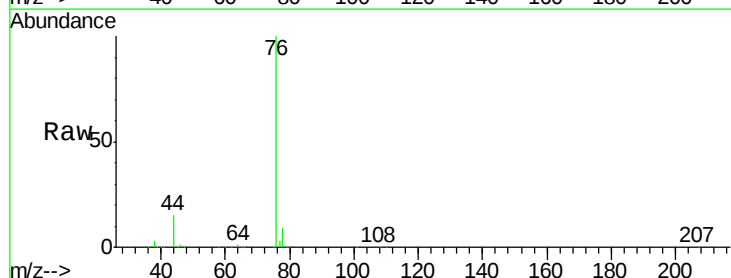
Acq: 20 Jul 2020 12:34

Tgt Ion: 76 Resp: 903013

Ion Ratio Lower Upper

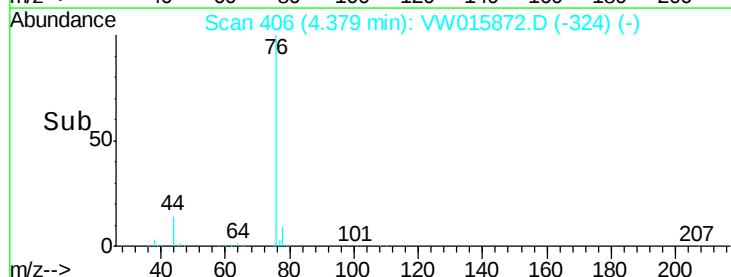
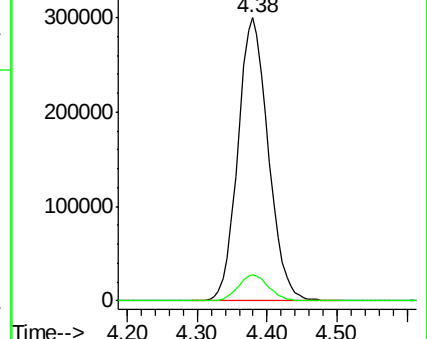
76 100

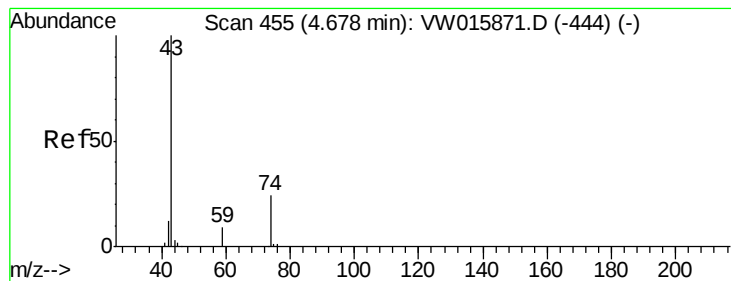
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 65.977 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampled :

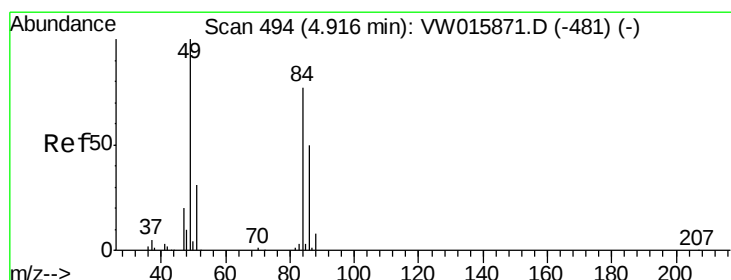
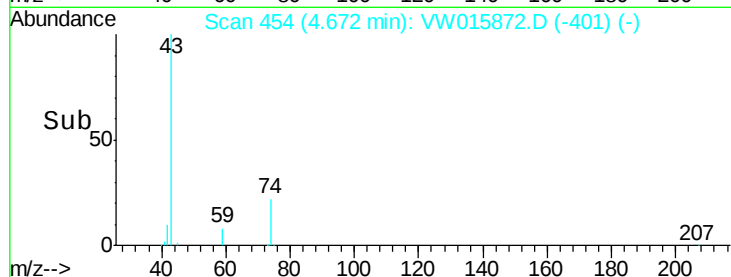
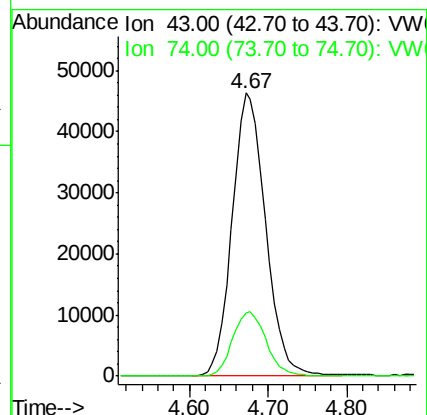
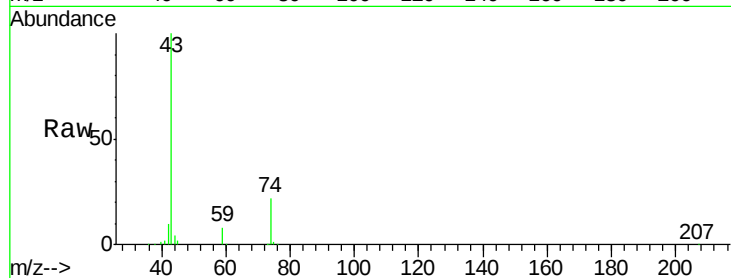
VSTD05003

Tgt Ion: 43 Resp: 136205

Ion Ratio Lower Upper

43 100

74 23.0 18.2 27.2



#16

Methylene chloride

Concen: 48.507 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

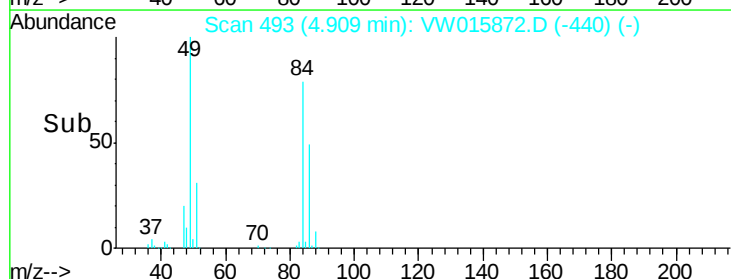
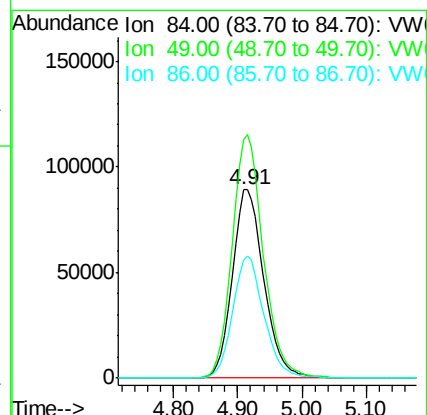
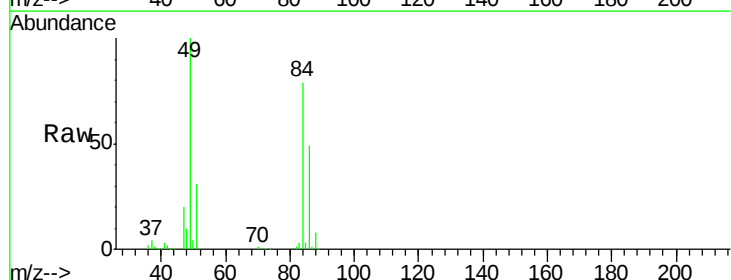
Tgt Ion: 84 Resp: 305530

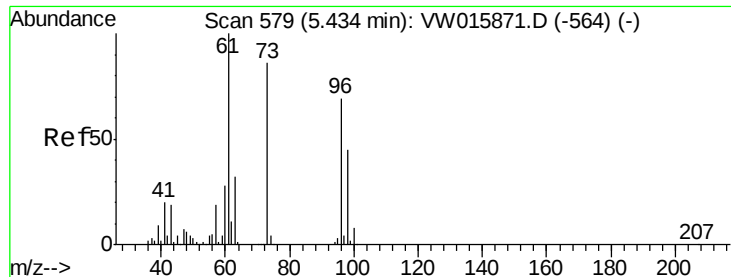
Ion Ratio Lower Upper

84 100

49 127.0 91.1 169.1

86 62.7 46.0 85.4

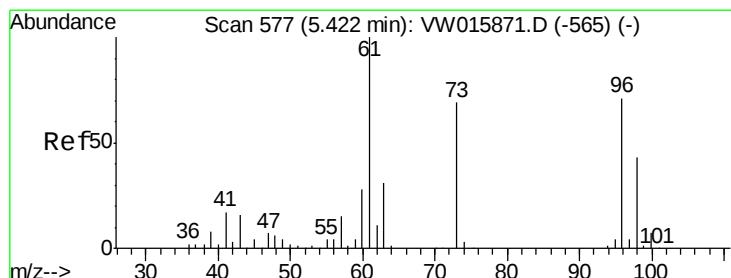
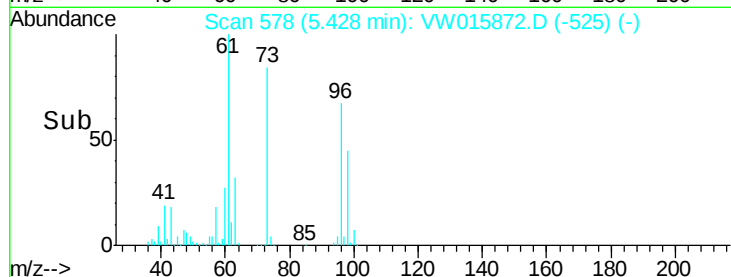
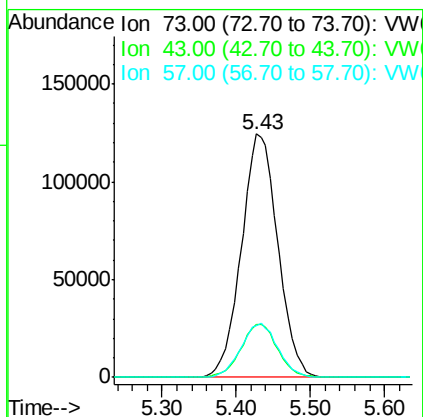
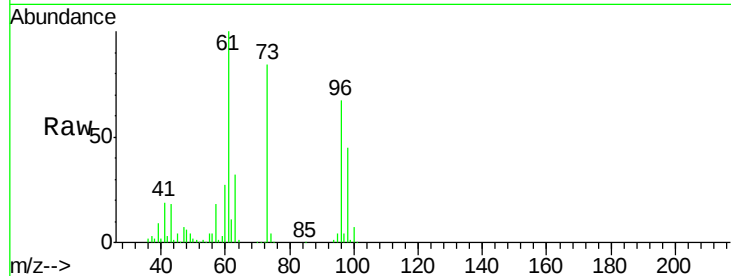




#17  
Methyl tert-butyl Ether  
Concen: 56.120 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

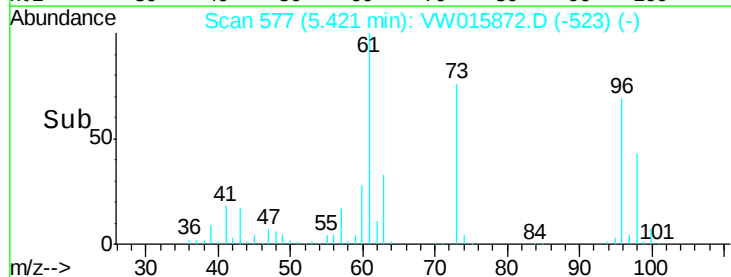
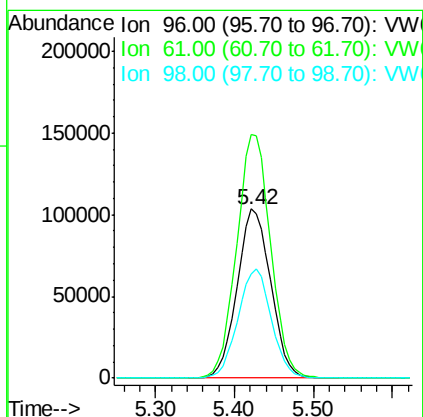
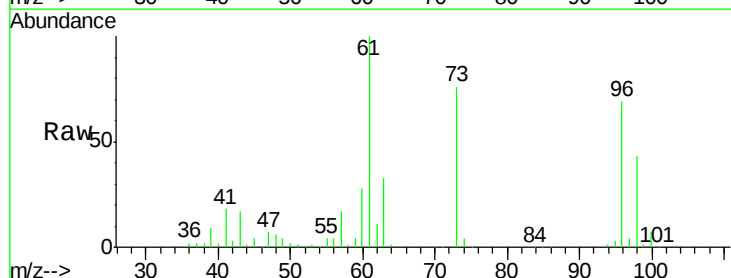
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

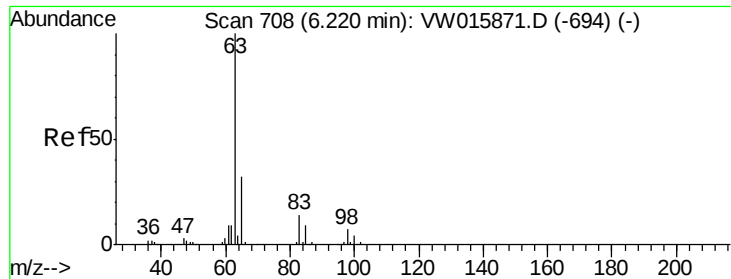
Tgt Ion: 73 Resp: 426003  
Ion Ratio Lower Upper  
73 100  
43 22.0 18.4 27.6  
57 22.3 17.8 26.8



#18  
trans-1,2-Dichloroethene  
Concen: 51.228 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 96 Resp: 307199  
Ion Ratio Lower Upper  
96 100  
61 144.3 99.3 184.5  
98 61.6 42.9 79.7

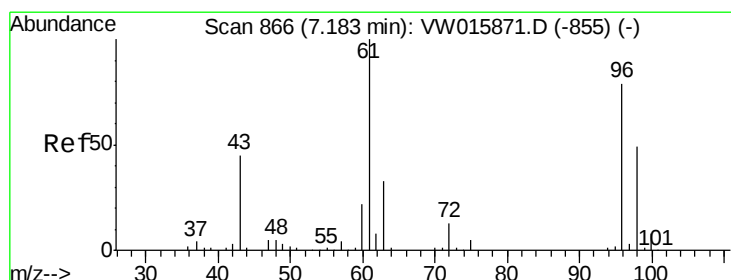
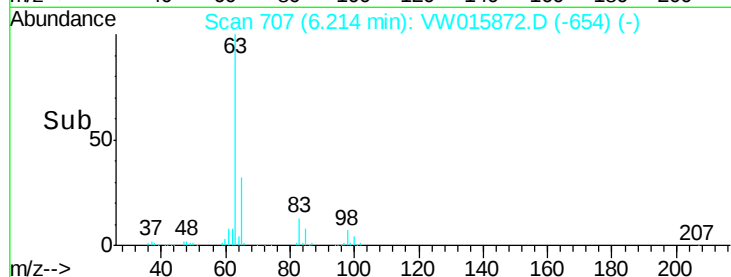
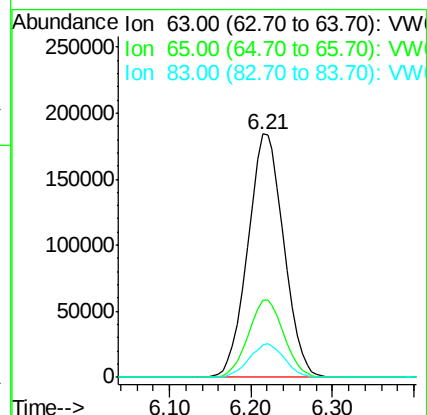
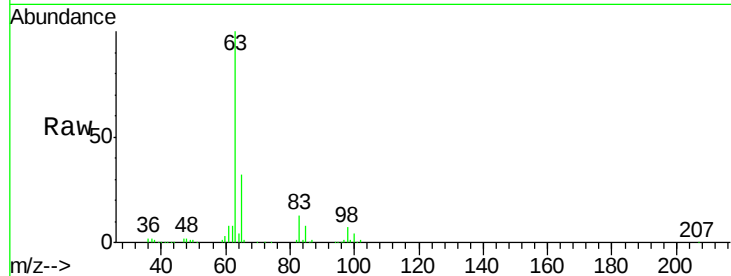




#19  
 1,1-Dichloroethane  
 Concen: 53.528 ug/L  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.01 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

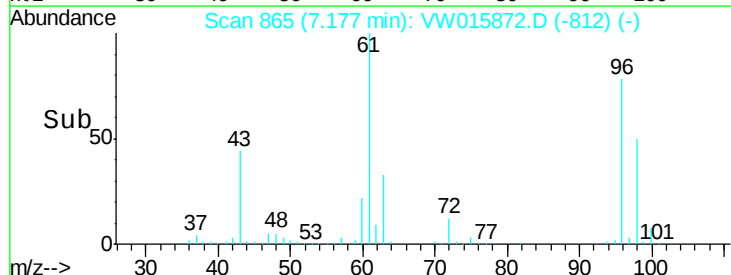
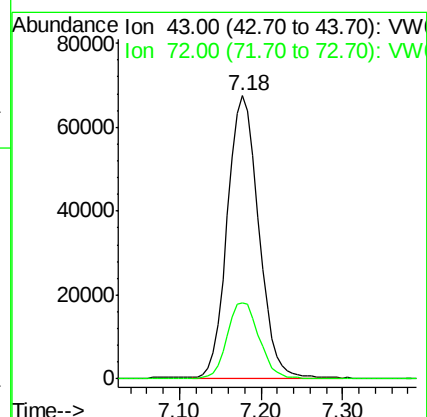
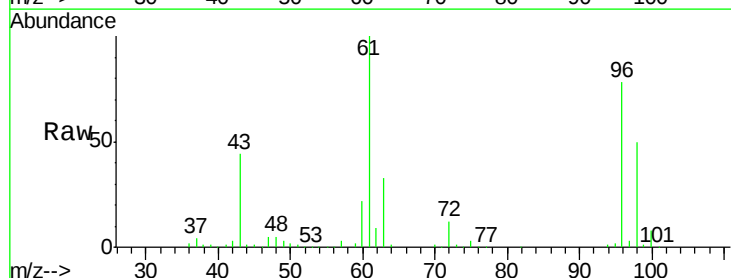
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

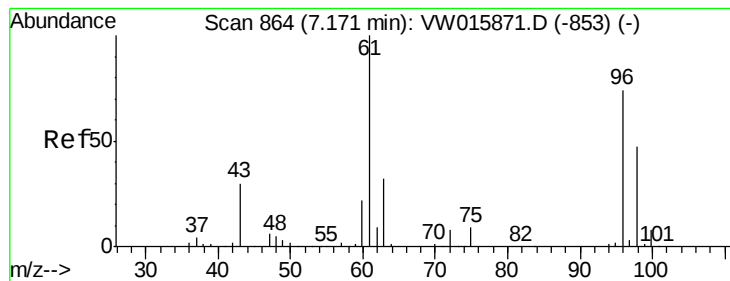
Tgt Ion: 63 Resp: 564918  
 Ion Ratio Lower Upper  
 63 100  
 65 31.9 22.2 41.2  
 83 13.2 9.8 18.2



#21  
 2-Butanone  
 Concen: 130.632 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.01 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Tgt Ion: 43 Resp: 178475  
 Ion Ratio Lower Upper  
 43 100  
 72 27.9 13.9 41.7



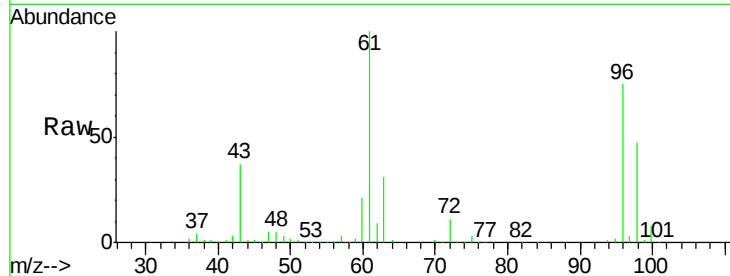


#22

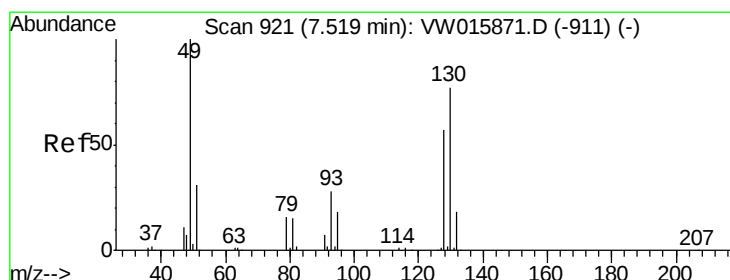
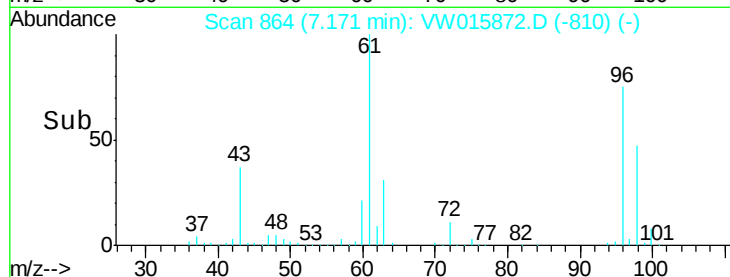
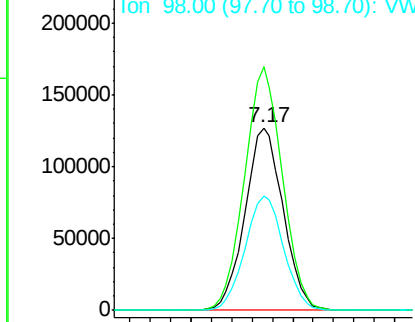
cis-1,2-Dichloroethene  
Concen: 52.239 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

Tgt Ion: 96 Resp: 329715  
Ion Ratio Lower Upper  
96 100  
61 133.5 94.6 175.8  
98 63.0 44.3 82.3



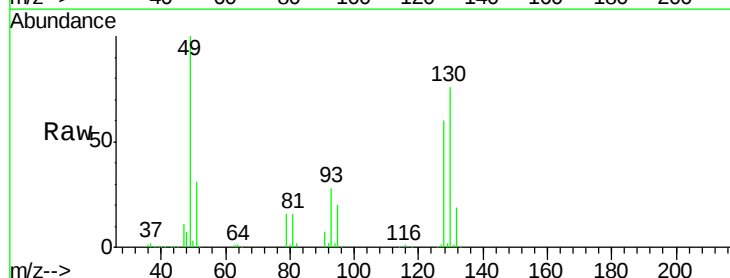
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



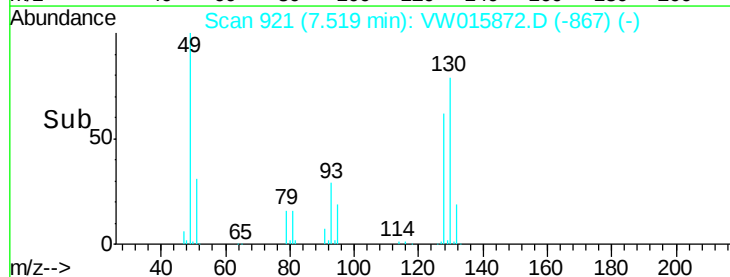
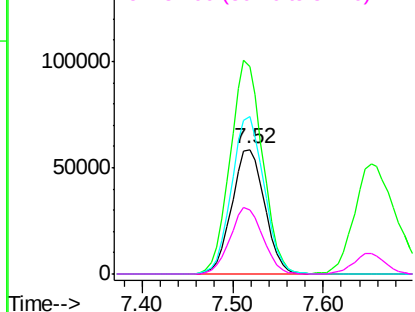
#23

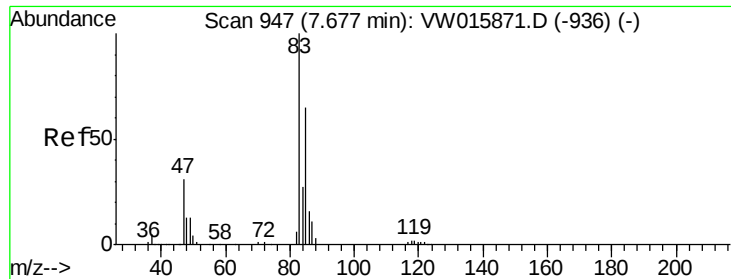
Bromochloromethane  
Concen: 52.585 ug/L  
RT: 7.52 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 128 Resp: 147708  
Ion Ratio Lower Upper  
128 100  
49 166.3 122.4 227.2  
130 126.0 93.9 174.5  
51 51.4 43.2 64.8



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VW  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VW

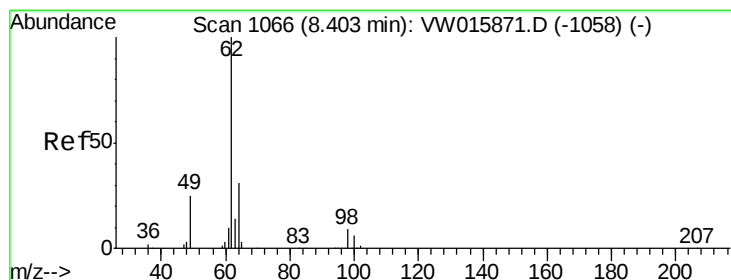
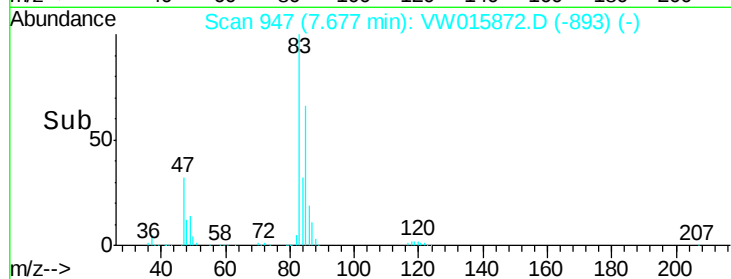
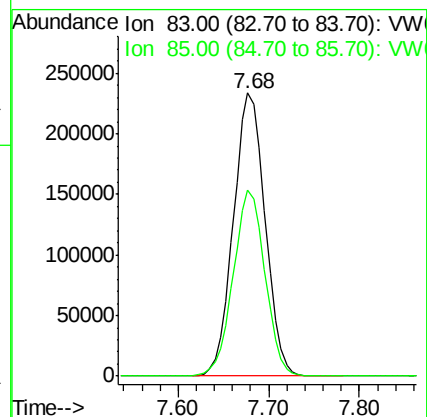
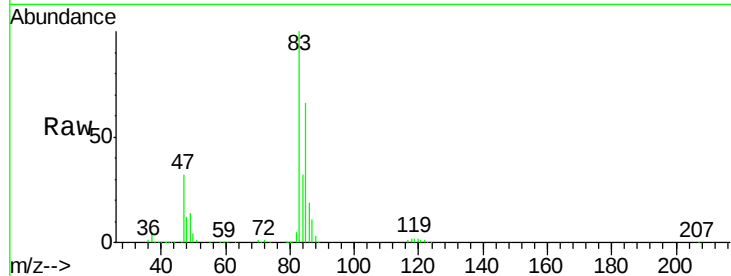




#25  
Chloroform  
Concen: 50.474 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

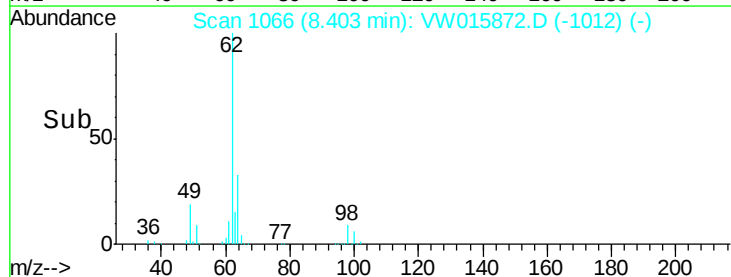
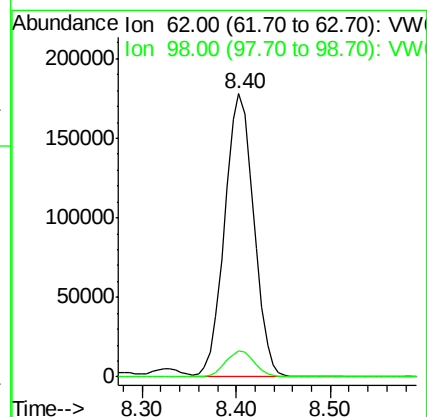
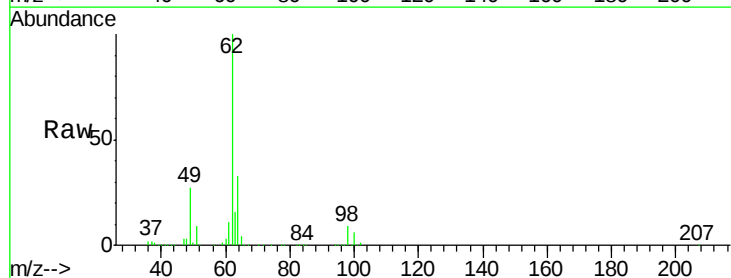
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

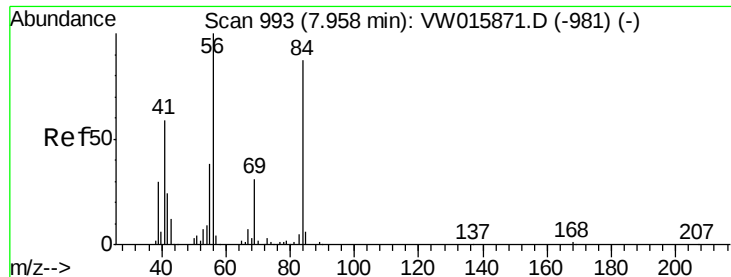
Tgt Ion: 83 Resp: 567488  
Ion Ratio Lower Upper  
83 100  
85 65.8 46.5 86.5



#27  
1,2-Dichloroethane  
Concen: 51.767 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 62 Resp: 381905  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.0 10.6

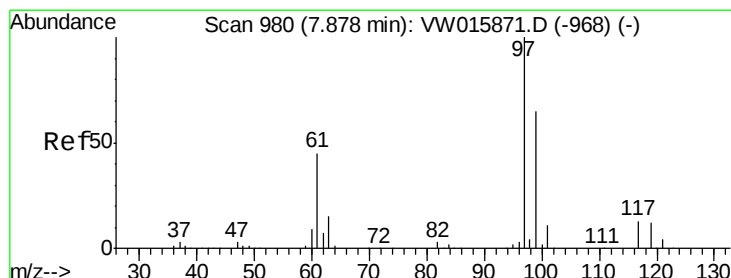
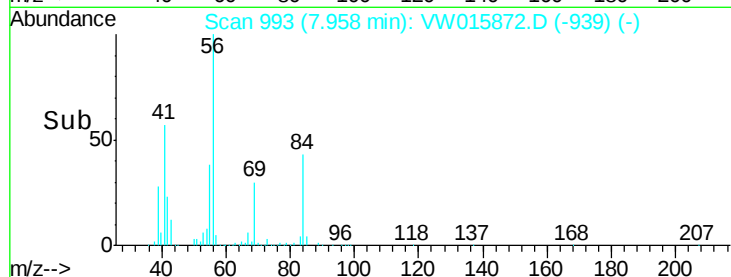
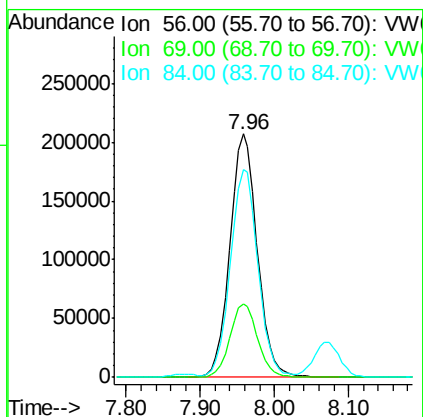
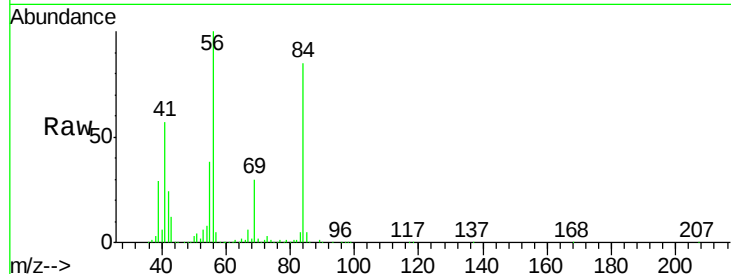




#30  
Cyclohexane  
Concen: 59.254 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

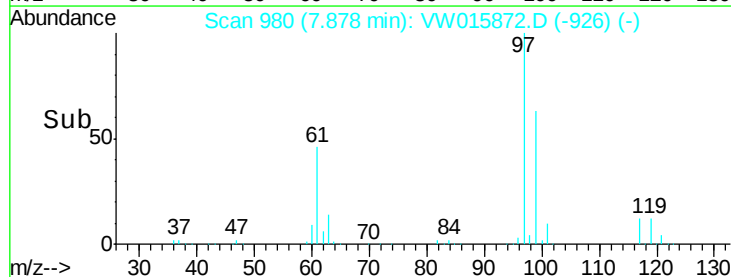
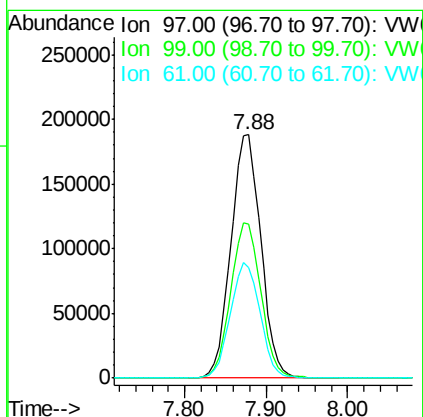
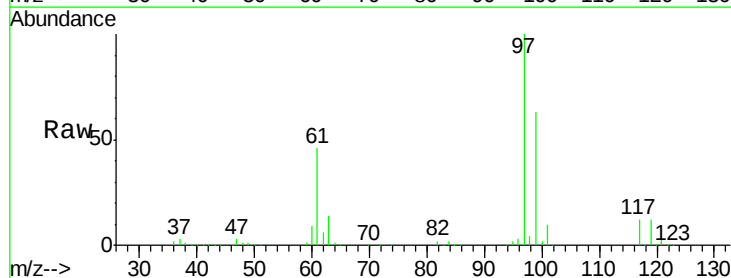
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

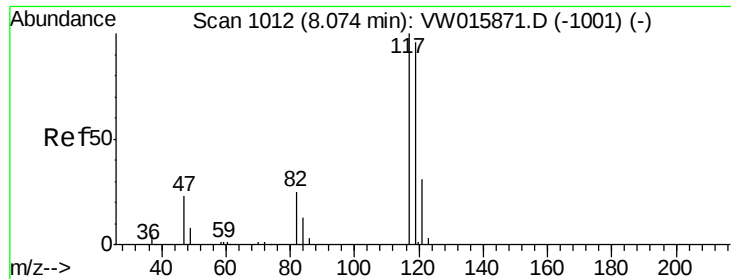
Tgt Ion: 56 Resp: 531610  
Ion Ratio Lower Upper  
56 100  
69 30.7 24.4 36.6  
84 86.3 69.3 103.9



#31  
1,1,1-Trichloroethane  
Concen: 50.719 ug/L  
RT: 7.88 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 97 Resp: 476773  
Ion Ratio Lower Upper  
97 100  
99 64.2 51.9 77.9  
61 47.1 37.6 56.4





#32

Carbon tetrachloride

Concen: 50.561 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

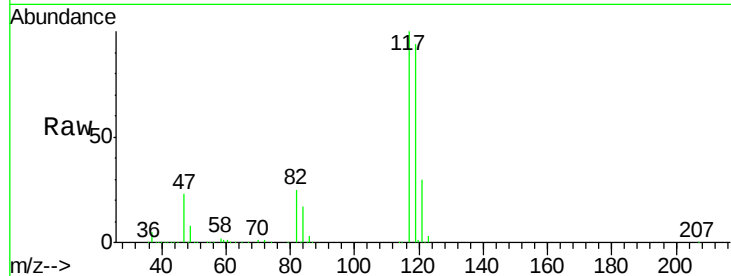
VSTD05003

Tgt Ion:117 Resp: 441015

Ion Ratio Lower Upper

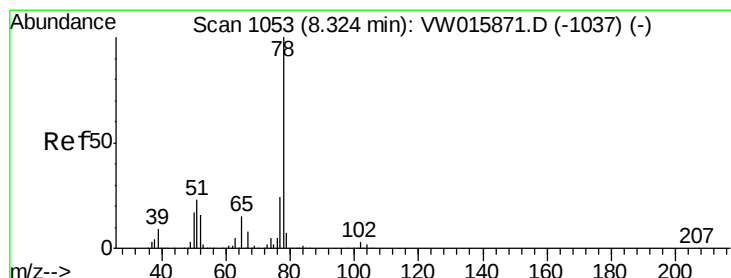
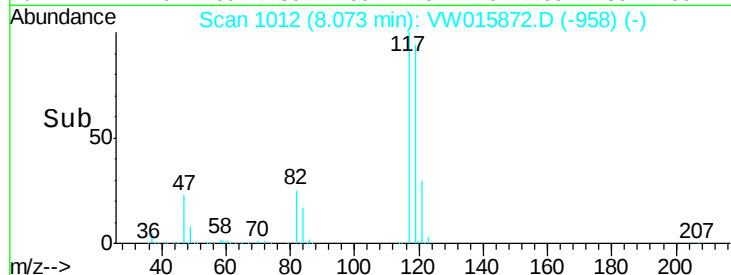
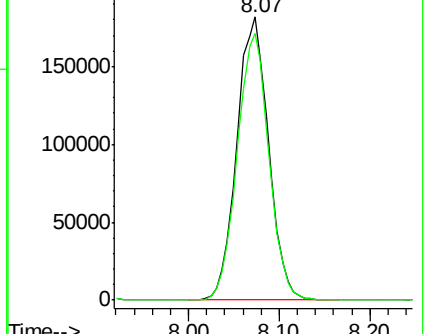
117 100

119 94.0 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 52.252 ug/L

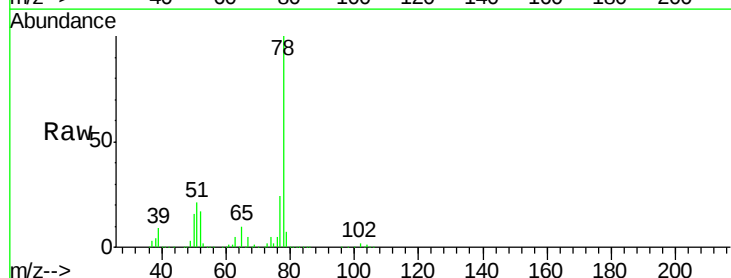
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

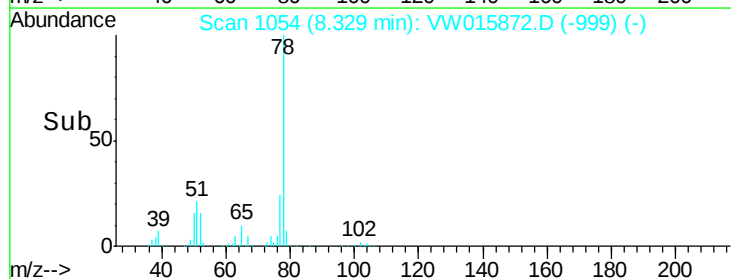
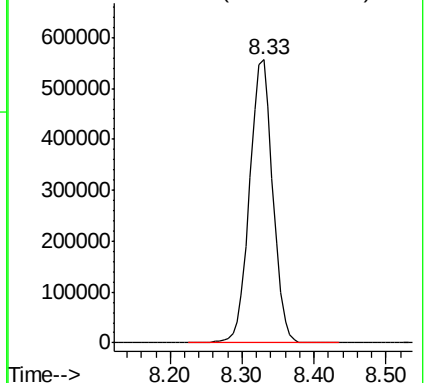
Lab File: VW015872.D

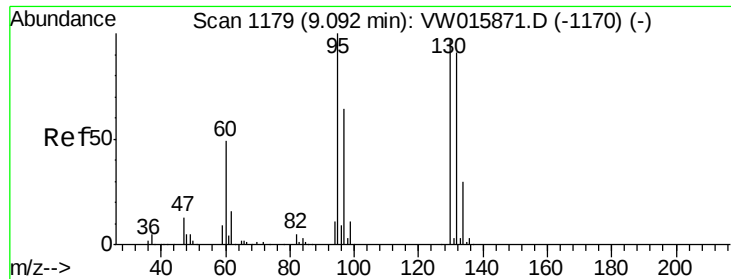
Acq: 20 Jul 2020 12:34

Tgt Ion: 78 Resp: 1242901



Abundance Ion 78.00 (77.70 to 78.70): VW

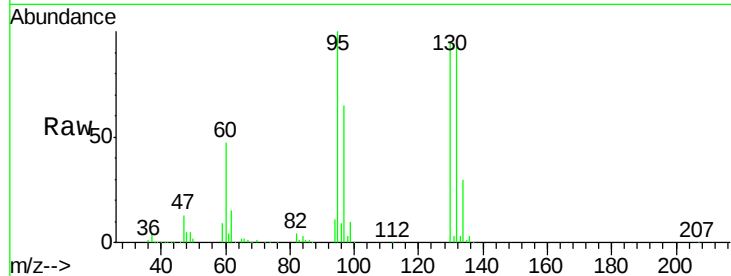




#35  
 Trichloroethene  
 Concen: 51.641 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD05003

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 331094 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.1  | 44.4  | 82.4   |
| 132      | 94.3  | 65.1  | 120.9  |
| 130      | 98.3  | 68.6  | 127.4  |



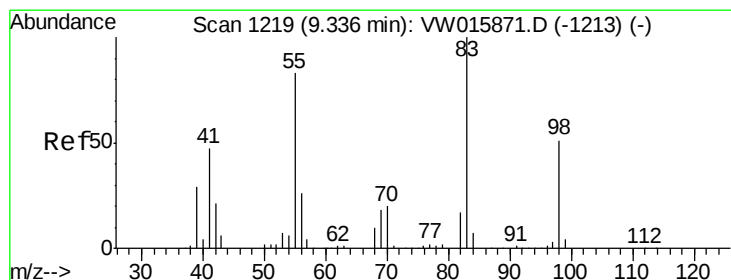
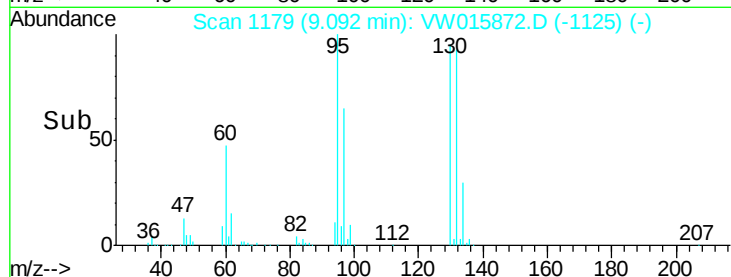
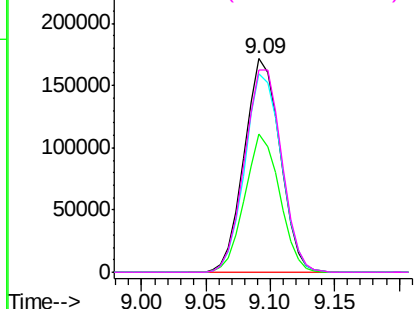
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

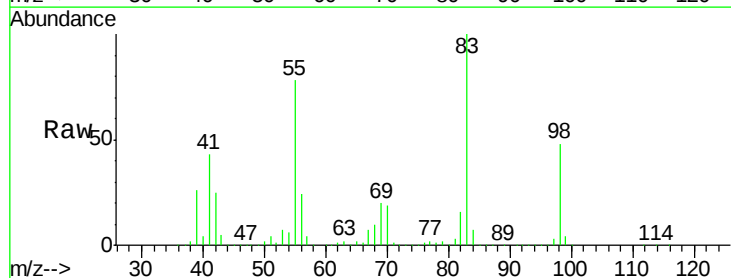
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36  
 Methylcyclohexane  
 Concen: 52.836 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 579115 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 78.6  | 63.5  | 95.3   |
| 98       | 48.8  | 39.0  | 58.4   |

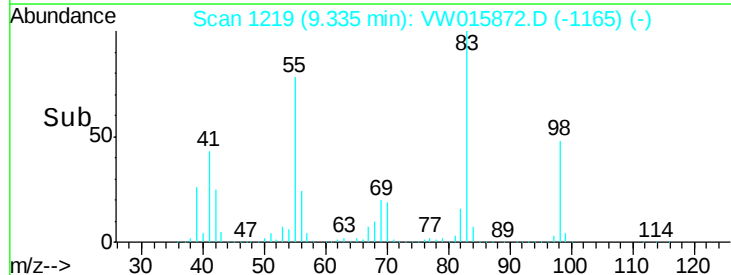
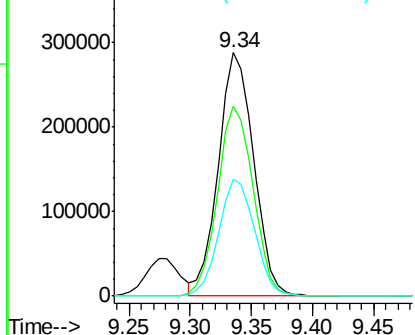


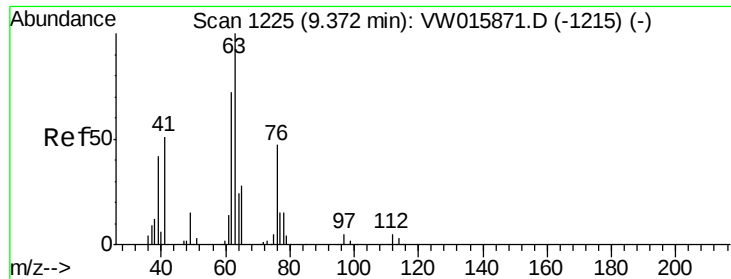
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

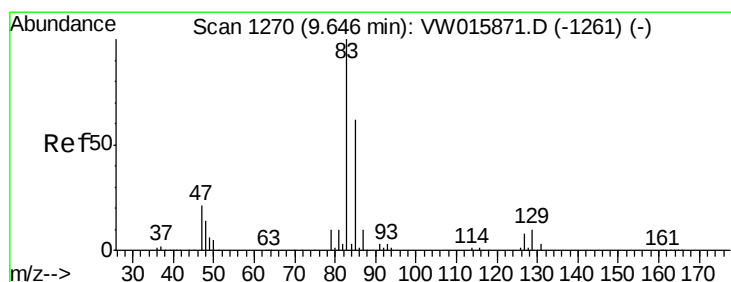
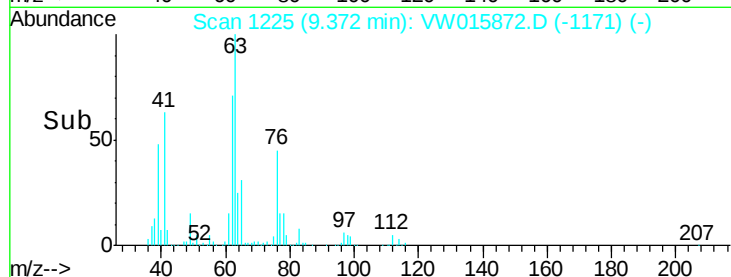
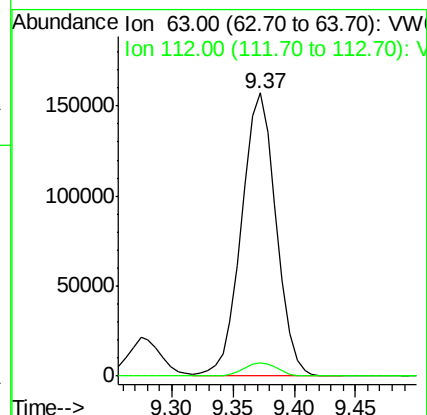
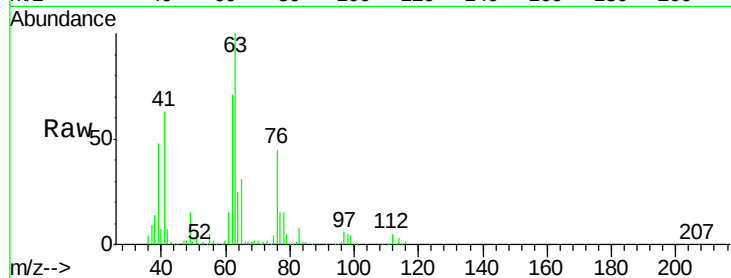




#40  
 1,2-Dichloropropane  
 Concen: 54.169 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

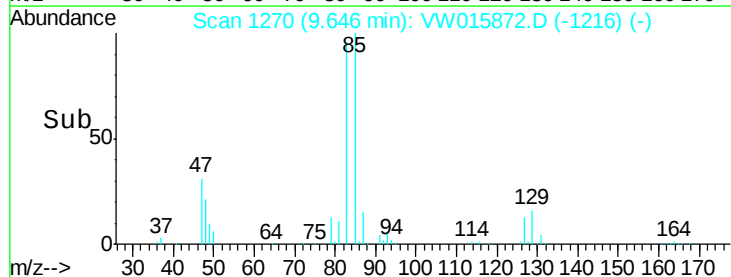
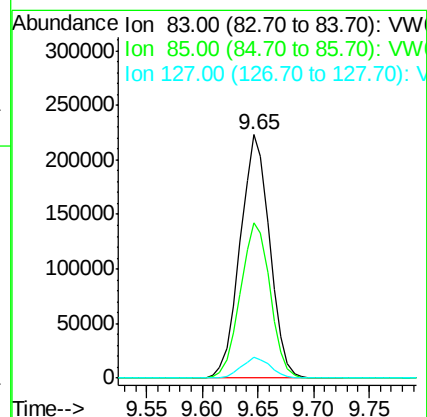
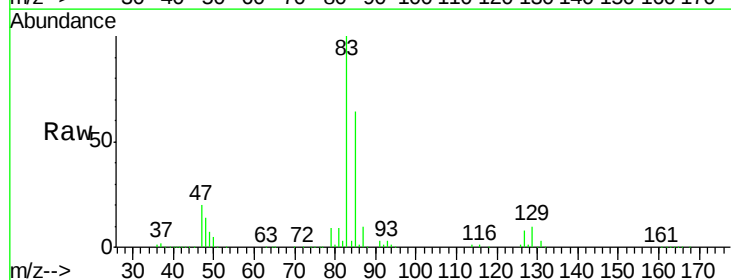
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

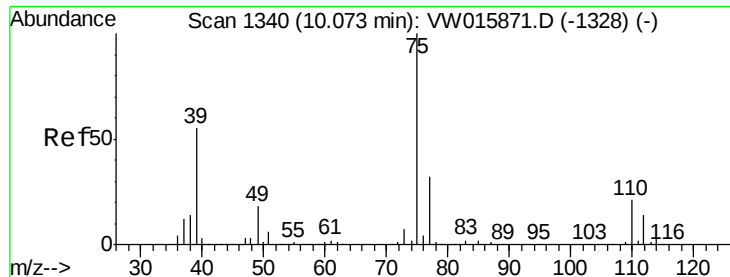
Tgt Ion: 63 Resp: 308311  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.7 5.5



#41  
 Bromodichloromethane  
 Concen: 53.350 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Tgt Ion: 83 Resp: 409297  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 43.7 81.1  
 127 8.3 6.5 9.7

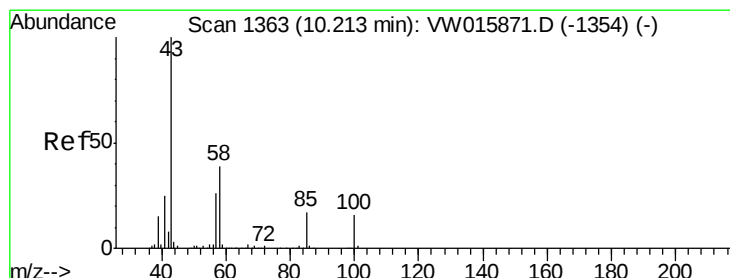
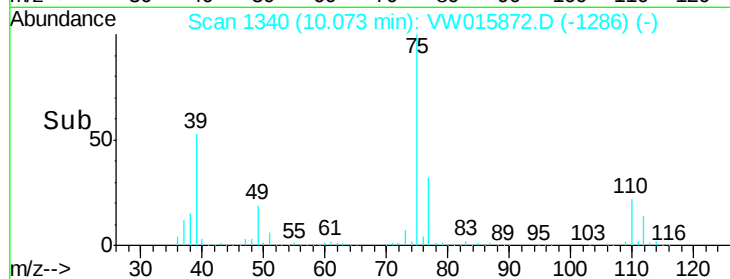
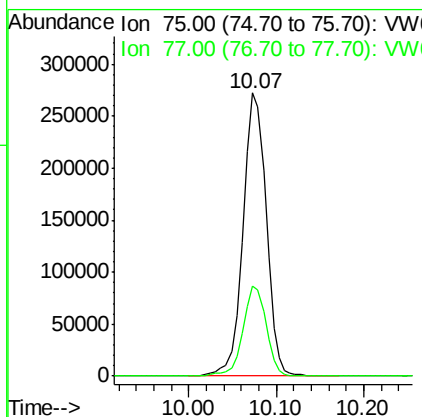
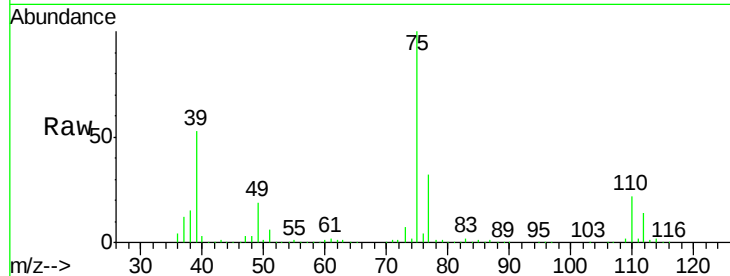




#42  
 cis-1,3-Dichloropropene  
 Concen: 59.057 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

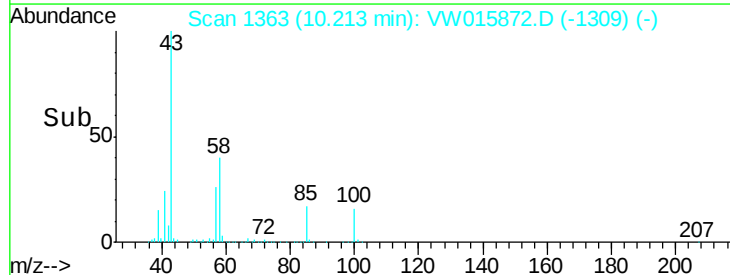
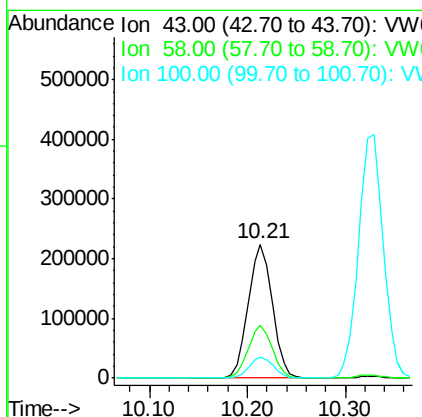
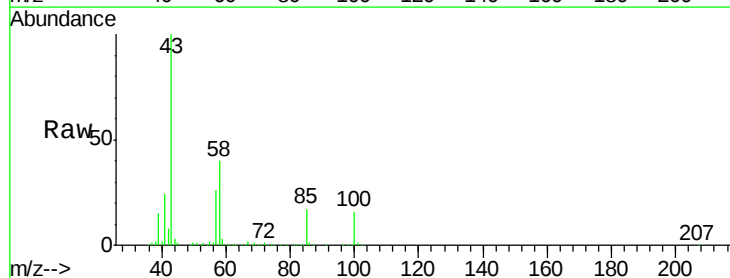
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD05003

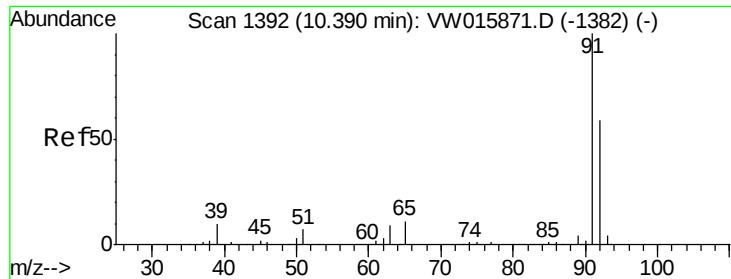
Tgt Ion: 75 Resp: 503836  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 22.2 41.2



#43  
 4-Methyl-2-pentanone  
 Concen: 137.791 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Tgt Ion: 43 Resp: 385703  
 Ion Ratio Lower Upper  
 43 100  
 58 39.4 31.0 46.4  
 100 15.8 12.6 19.0





#44

Toluene

Concen: 51.065 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

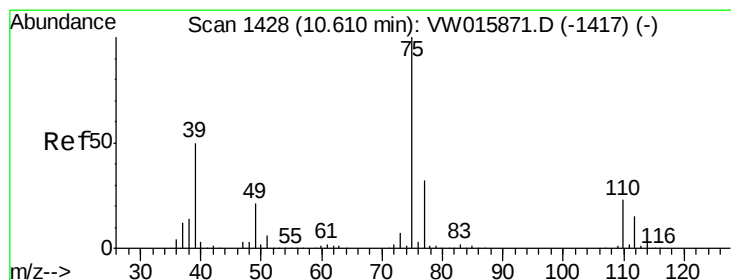
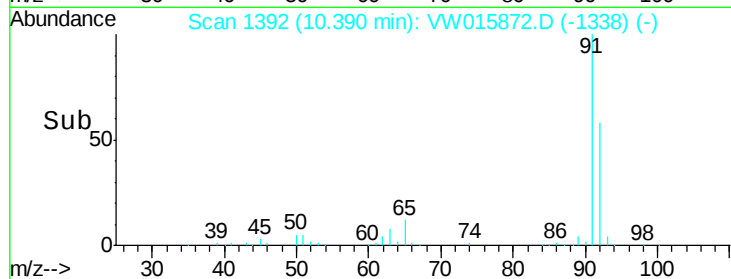
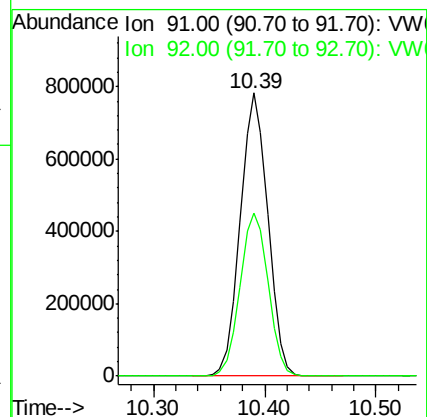
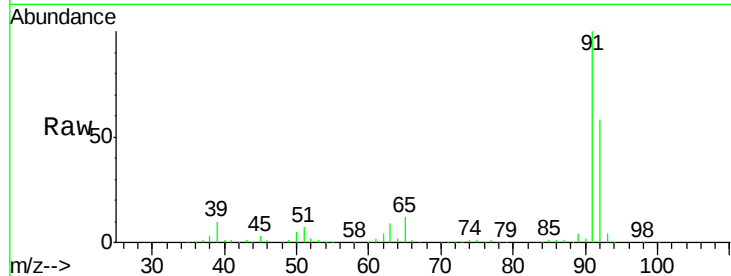
VSTD05003

Tgt Ion: 91 Resp: 1342512

Ion Ratio Lower Upper

91 100

92 57.7 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 58.074 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW015872.D

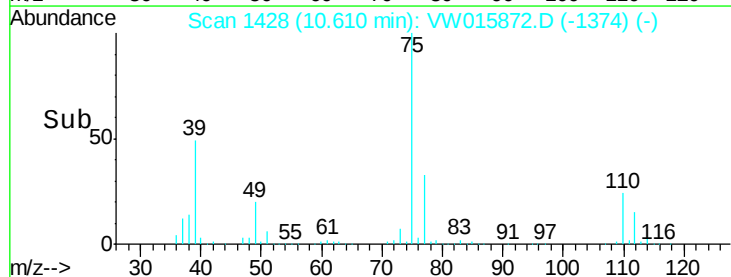
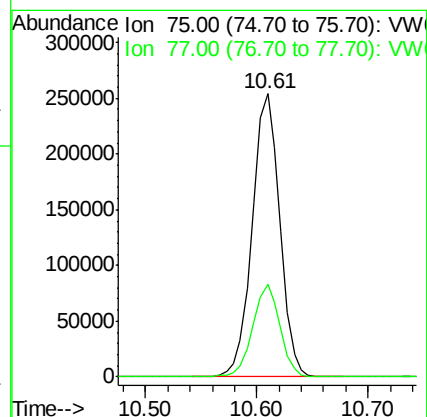
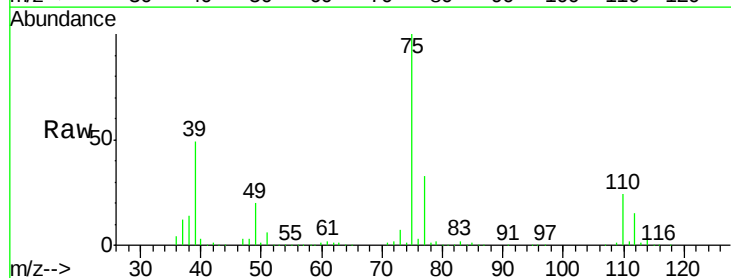
Acq: 20 Jul 2020 12:34

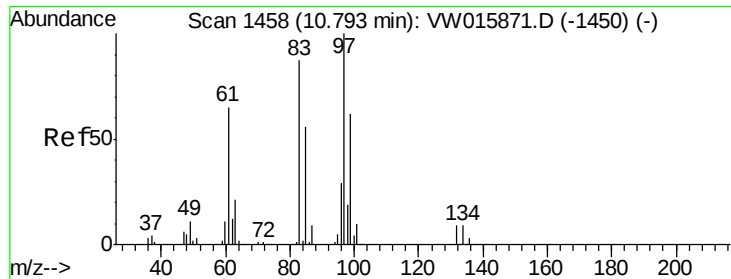
Tgt Ion: 75 Resp: 439707

Ion Ratio Lower Upper

75 100

77 32.5 22.5 41.9

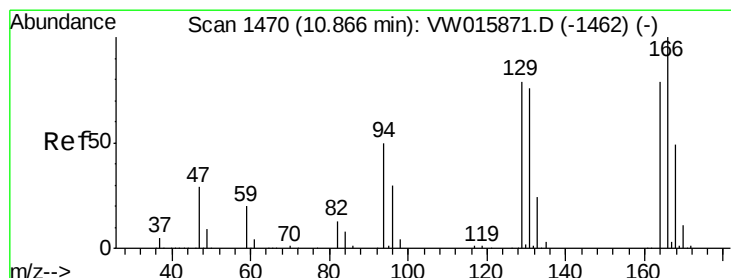
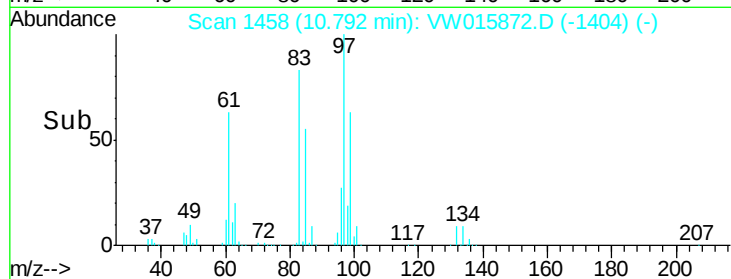
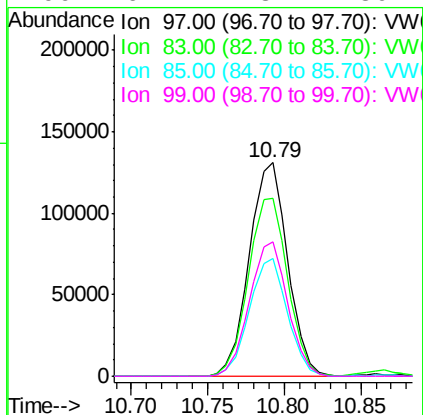
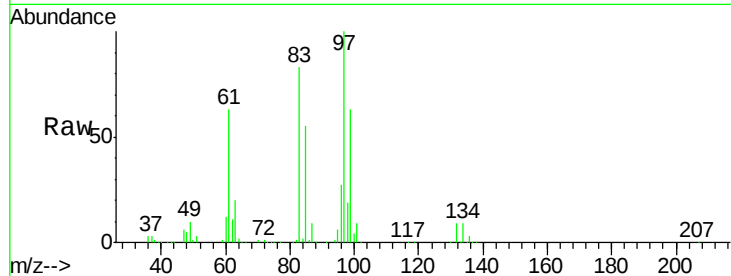




#46  
 1,1,2-Trichloroethane  
 Concen: 52.854 ug/L  
 RT: 10.79 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

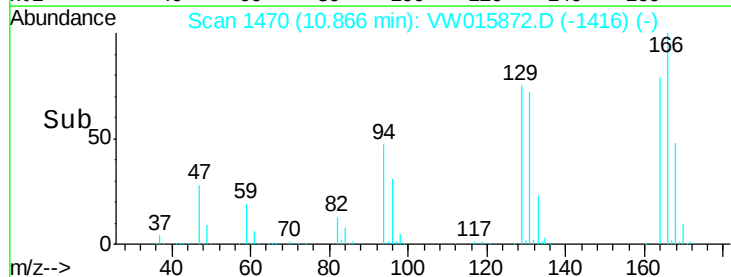
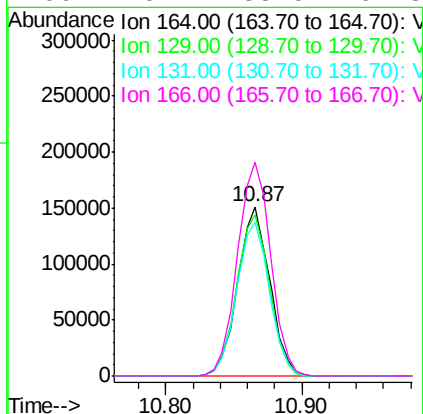
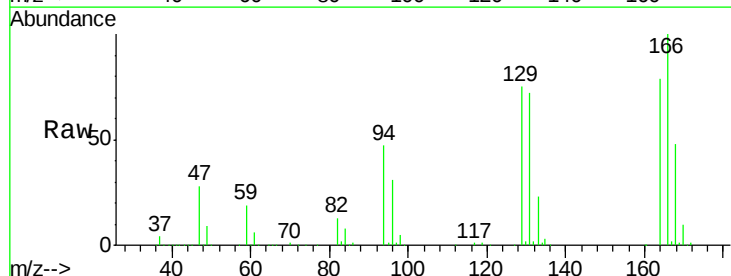
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

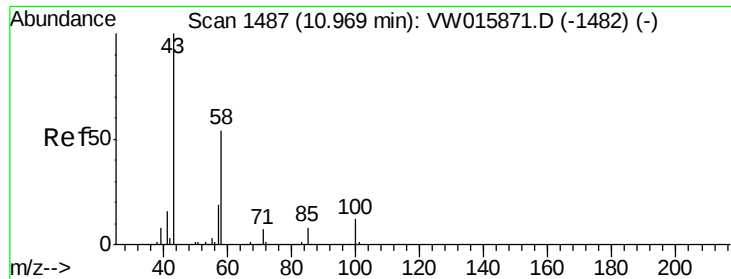
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 229367 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 83.1  | 60.6  | 112.6  |
| 85       | 54.9  | 38.9  | 72.2   |
| 99       | 62.7  | 43.1  | 80.1   |



#47  
 Tetrachloroethene  
 Concen: 48.485 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 248934 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 95.1  | 70.0  | 130.0  |
| 131      | 90.9  | 67.3  | 124.9  |
| 166      | 126.1 | 88.5  | 164.3  |

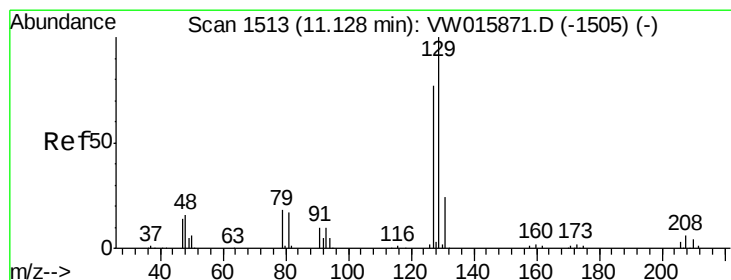
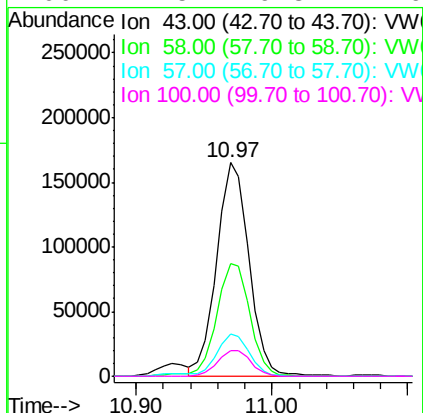
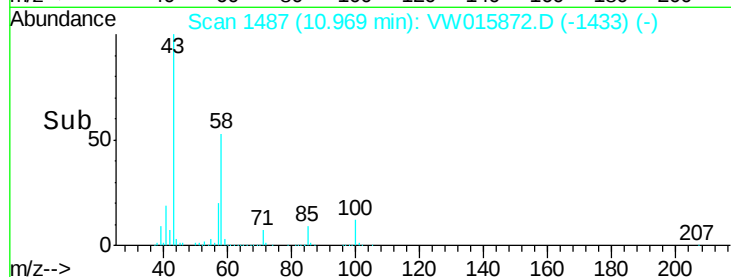
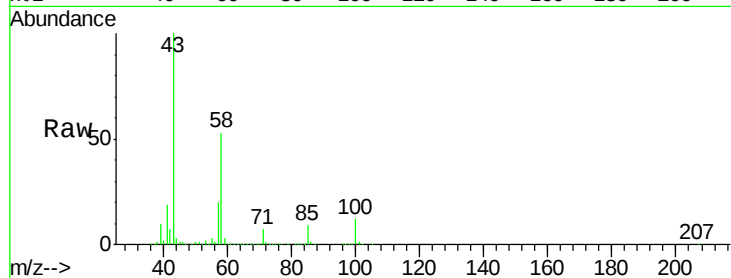




#49  
2-Hexanone  
Concen: 137.195 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

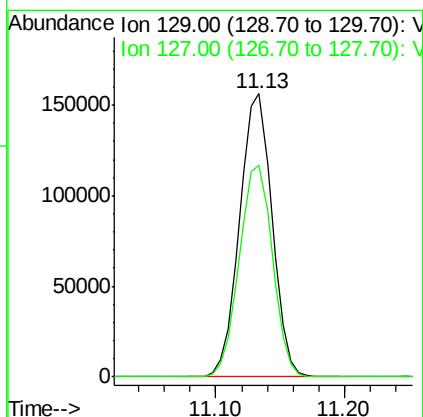
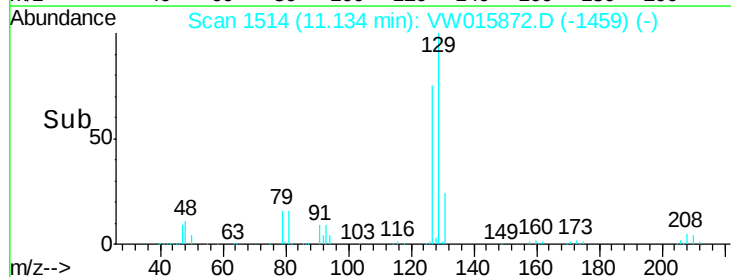
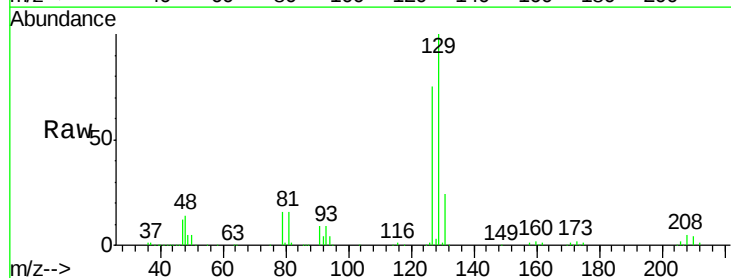
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

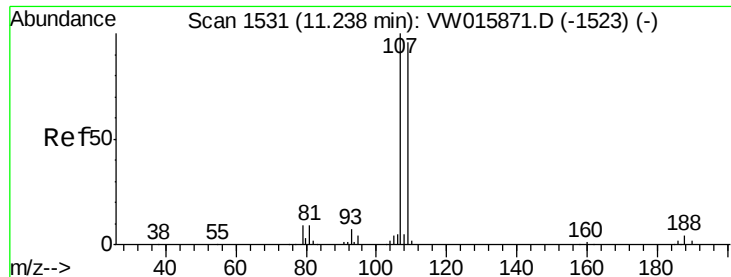
Tgt Ion: 43 Resp: 273199  
Ion Ratio Lower Upper  
43 100  
58 53.6 42.4 63.6  
57 19.3 15.6 23.4  
100 12.5 9.8 14.6



#50  
Dibromochloromethane  
Concen: 53.054 ug/L  
RT: 11.13 min Scan# 1514  
Delta R.T. 0.01 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion: 129 Resp: 272458  
Ion Ratio Lower Upper  
129 100  
127 74.7 53.8 100.0

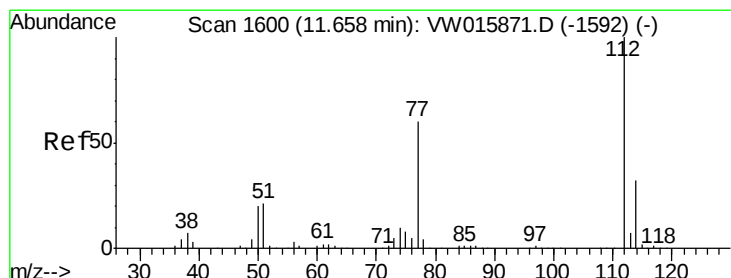
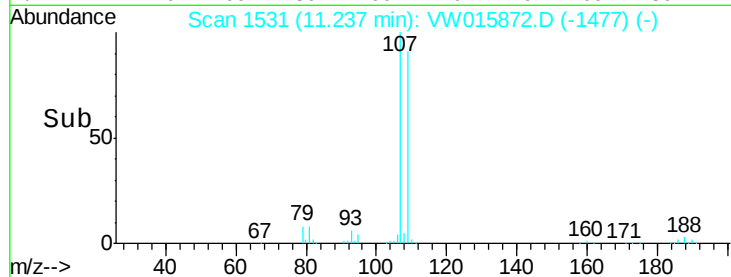
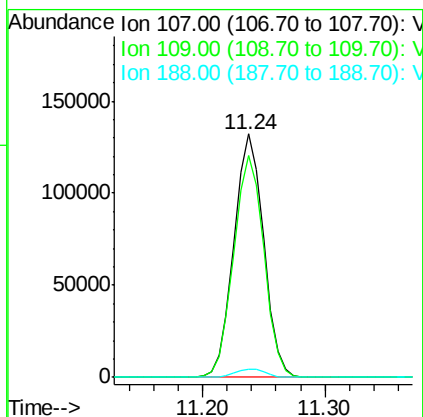
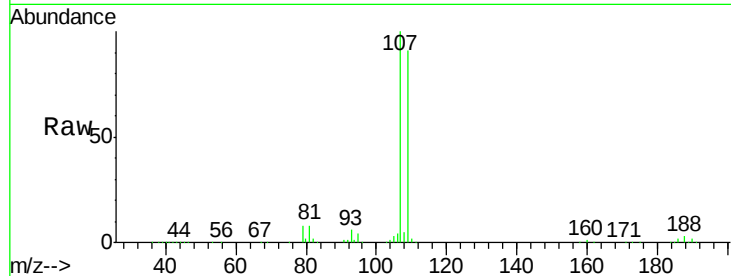




#51  
1,2-Dibromoethane  
Concen: 54.172 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

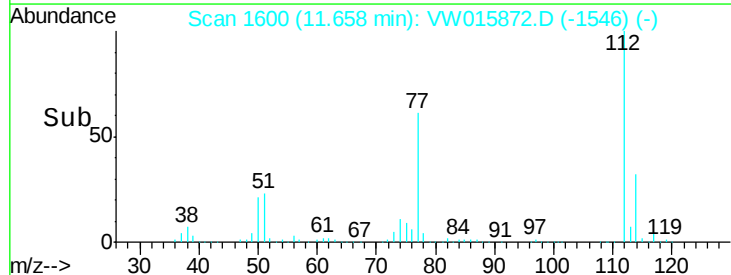
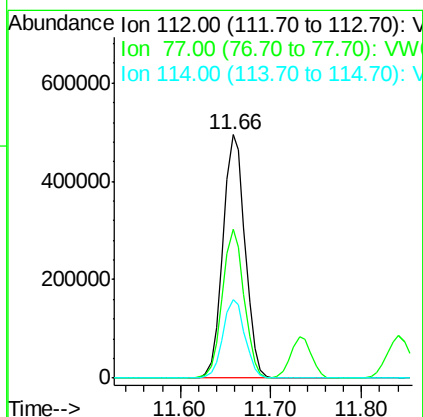
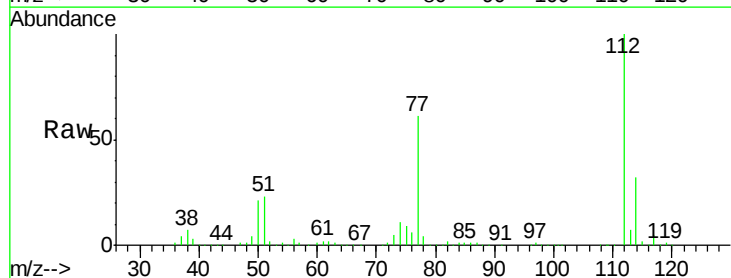
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05003

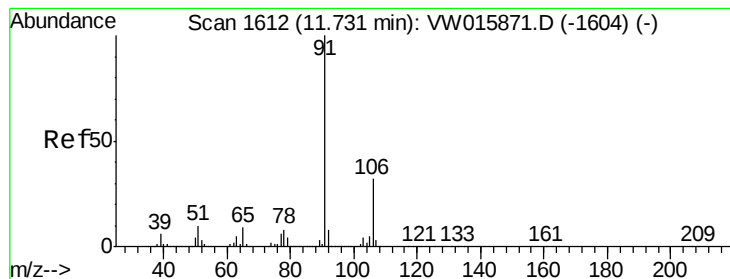
Tgt Ion:107 Resp: 221776  
Ion Ratio Lower Upper  
107 100  
109 91.1 66.9 124.3  
188 3.6 3.2 4.8



#52  
Chlorobenzene  
Concen: 48.802 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW015872.D  
Acq: 20 Jul 2020 12:34

Tgt Ion:112 Resp: 838968  
Ion Ratio Lower Upper  
112 100  
77 61.1 47.8 71.6  
114 32.3 22.1 41.1





#53

Ethylbenzene

Concen: 51.344 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

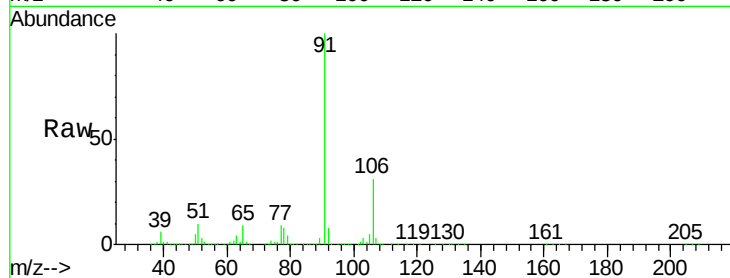
VSTD05003

Tgt Ion: 91 Resp: 1522849

Ion Ratio Lower Upper

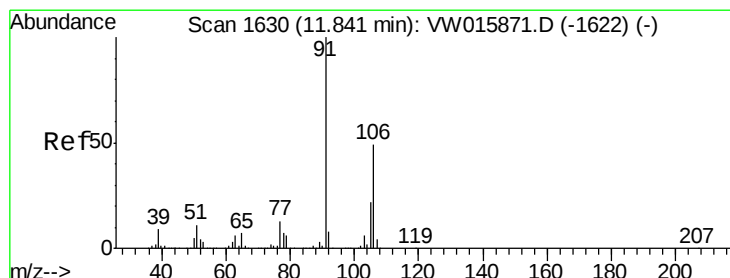
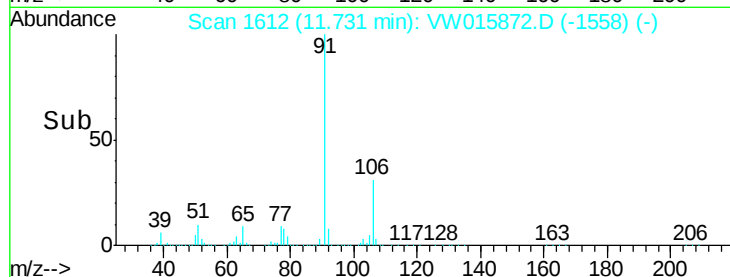
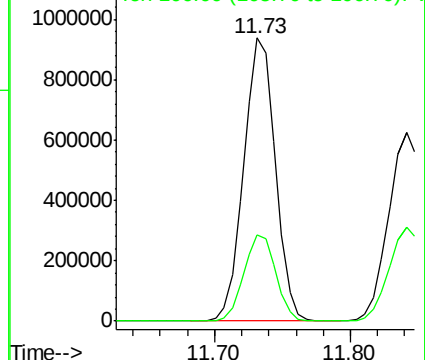
91 100

106 30.5 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 50.655 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW015872.D

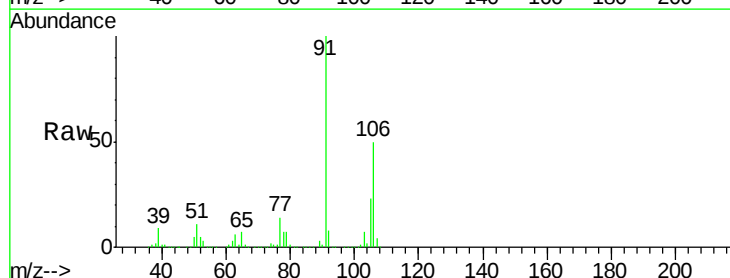
Acq: 20 Jul 2020 12:34

Tgt Ion: 106 Resp: 573071

Ion Ratio Lower Upper

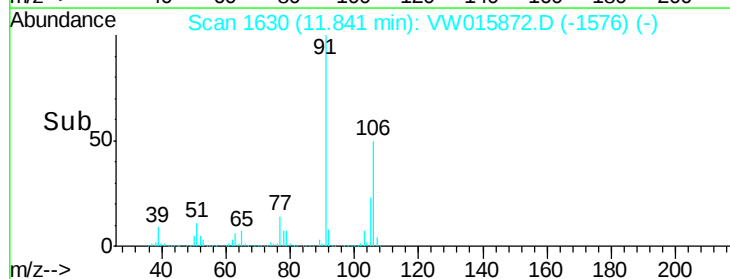
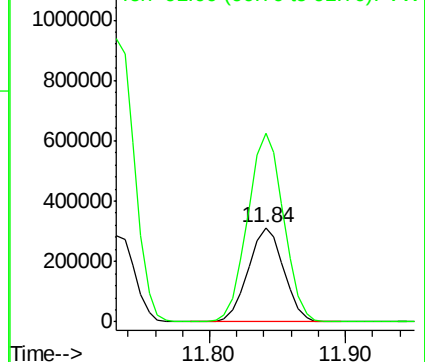
106 100

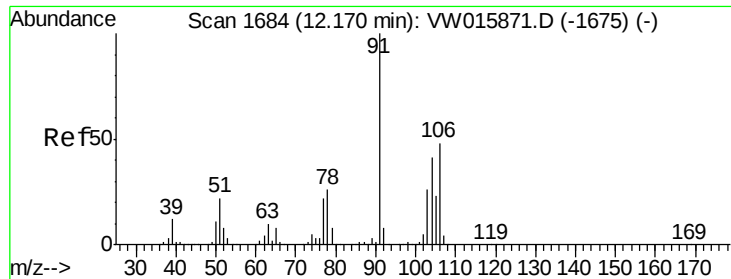
91 199.3 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 50.643 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampled :

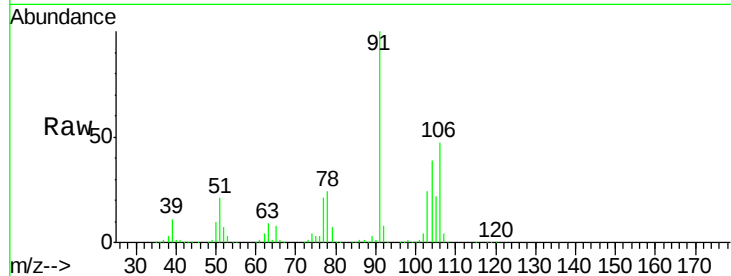
VSTD05003

Tgt Ion:106 Resp: 541680

Ion Ratio Lower Upper

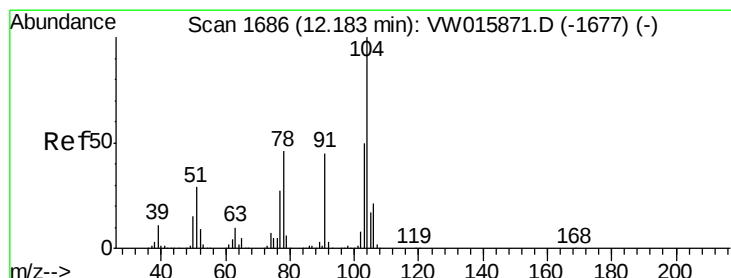
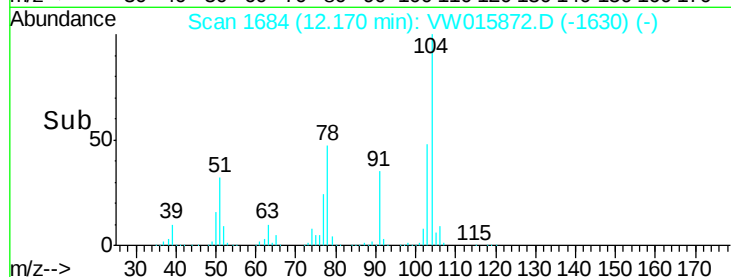
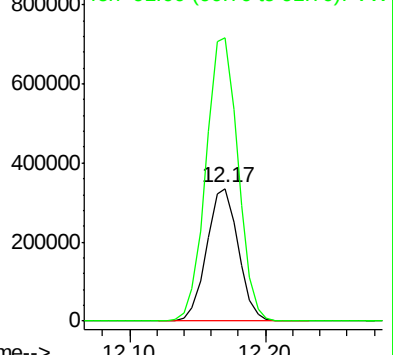
106 100

91 213.2 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 51.913 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW015872.D

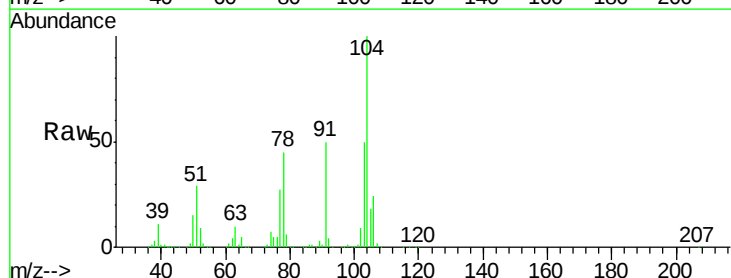
Acq: 20 Jul 2020 12:34

Tgt Ion:104 Resp: 938696

Ion Ratio Lower Upper

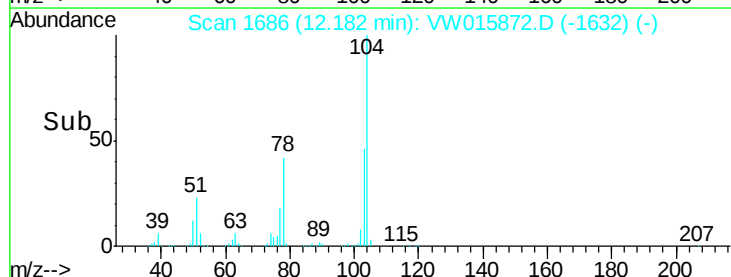
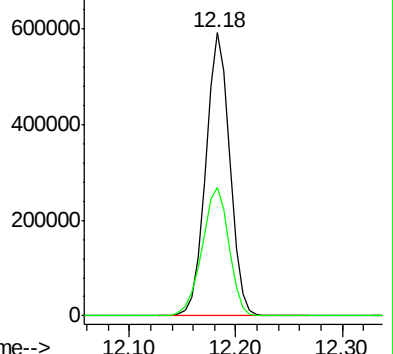
104 100

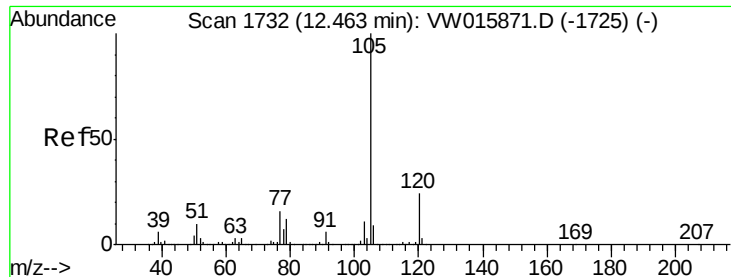
78 45.3 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 49.246 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05003

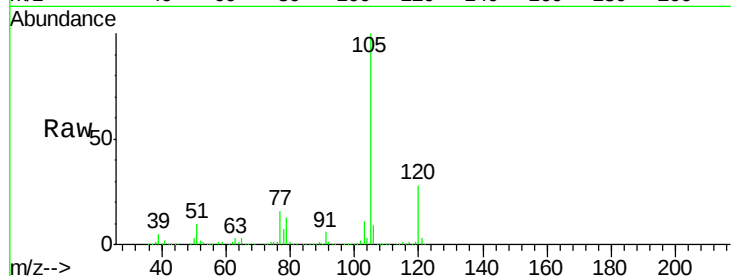
Tgt Ion: 105 Resp: 1449222

Ion Ratio Lower Upper

105 100

120 26.5 20.4 30.6

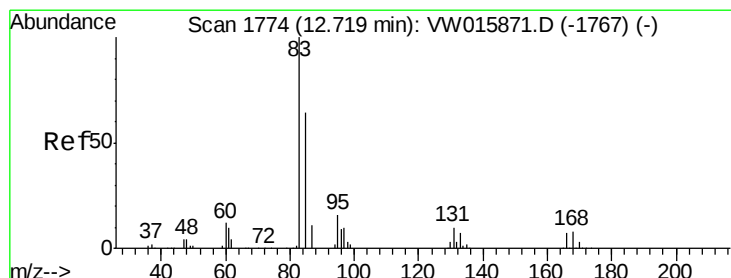
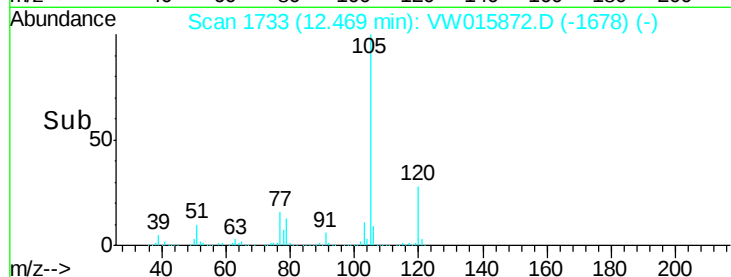
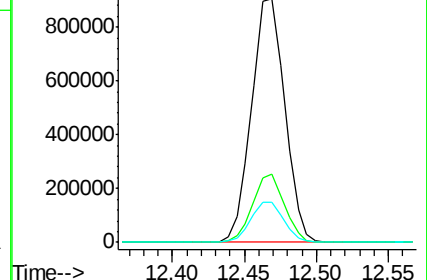
77 16.3 12.9 19.3



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



#58

1,1,2,2-Tetrachloroethane

Concen: 54.733 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

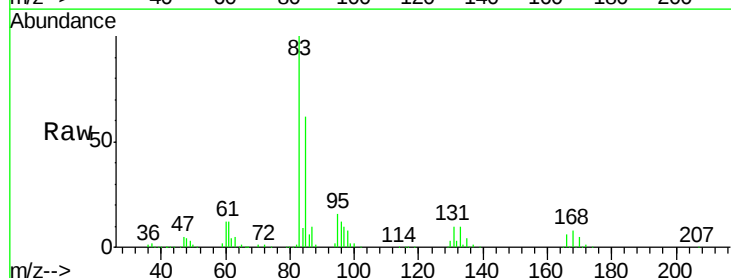
Tgt Ion: 83 Resp: 271466

Ion Ratio Lower Upper

83 100

85 62.0 45.1 83.7

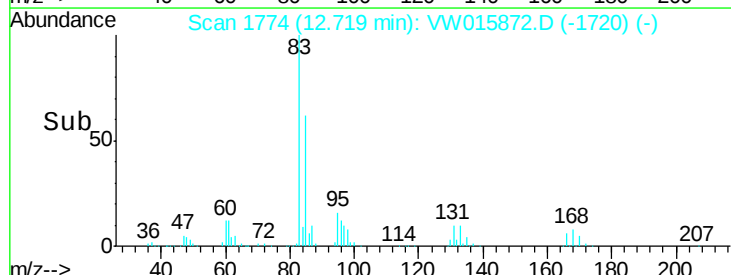
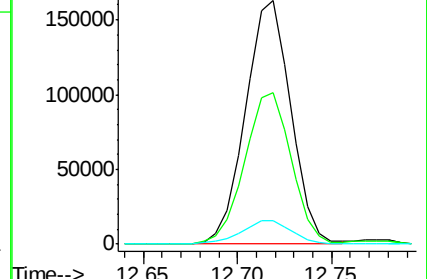
131 9.6 8.2 12.4

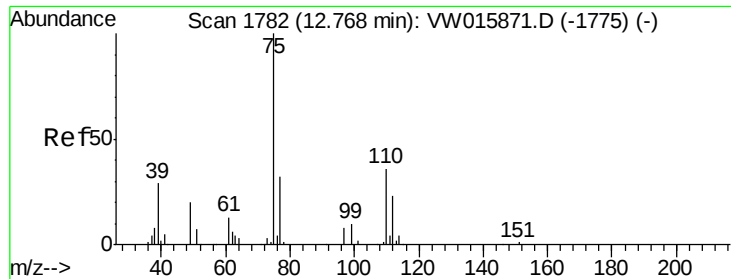


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.919 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

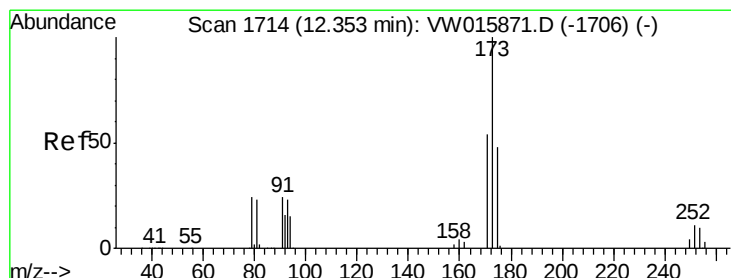
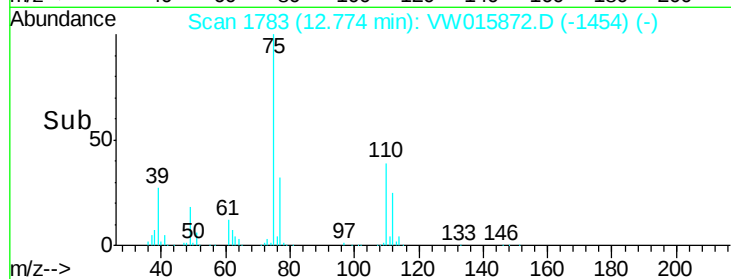
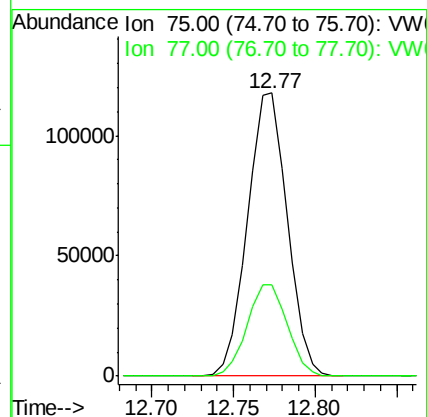
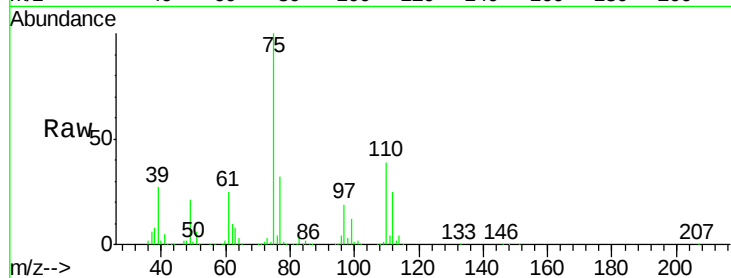
VSTD05003

Tgt Ion: 75 Resp: 200279

Ion Ratio Lower Upper

75 100

77 32.7 26.0 39.0



#62

Bromoform

Concen: 56.117 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

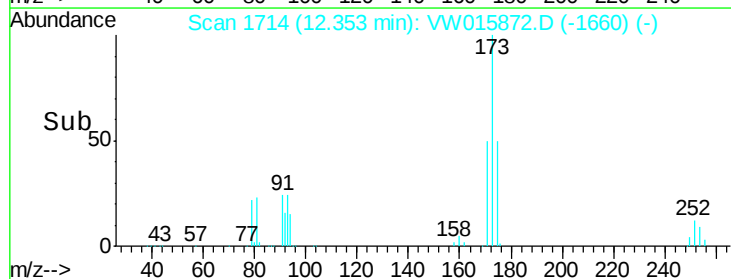
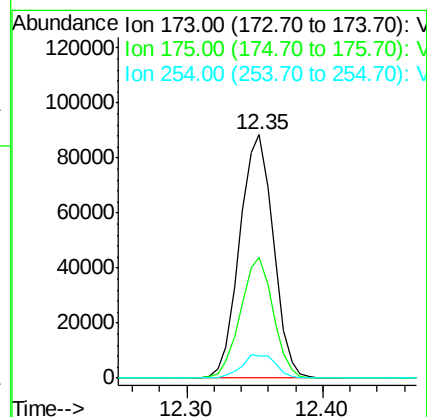
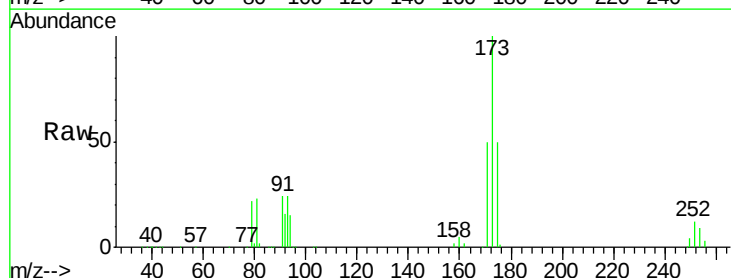
Tgt Ion: 173 Resp: 152936

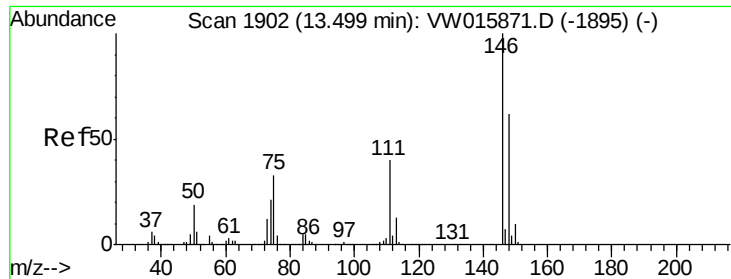
Ion Ratio Lower Upper

173 100

175 48.1 38.7 58.1

254 9.7 7.9 11.9

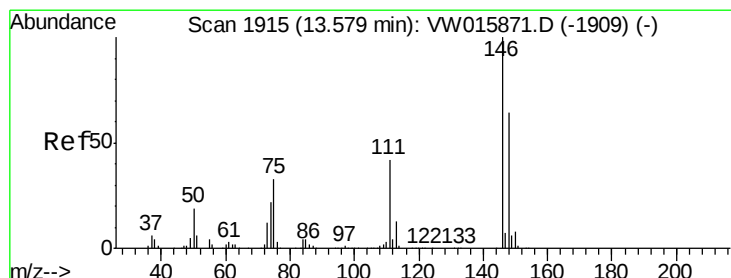
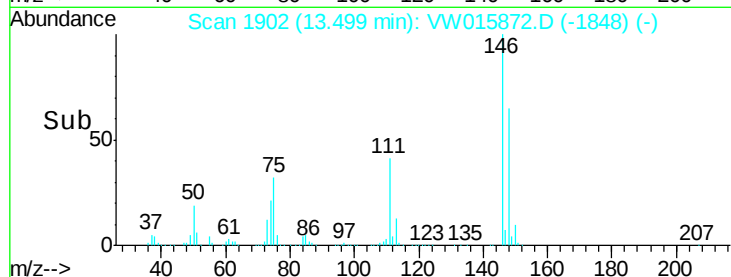
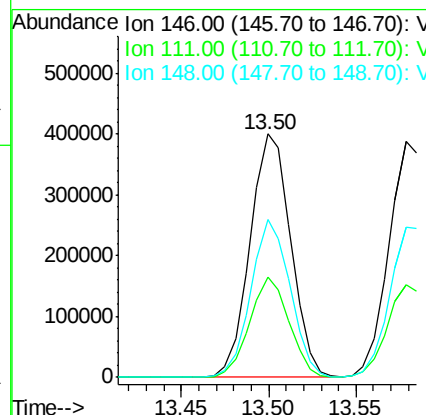
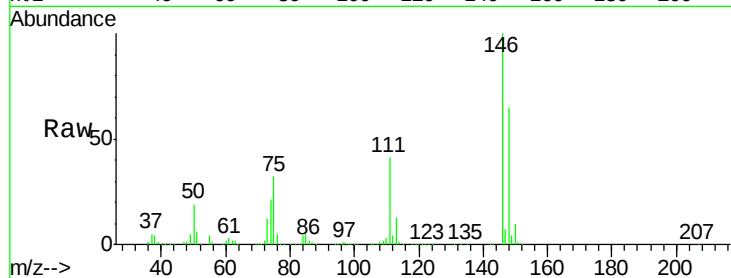




#63  
 1,3-Dichlorobenzene  
 Concen: 51.891 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

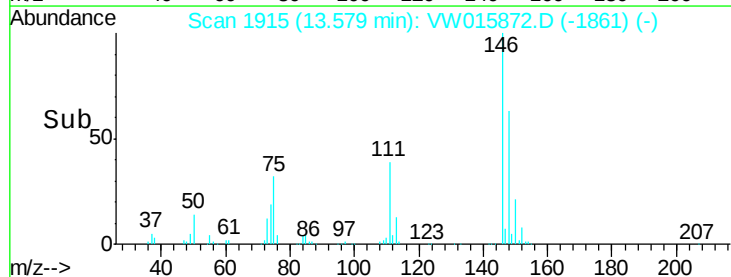
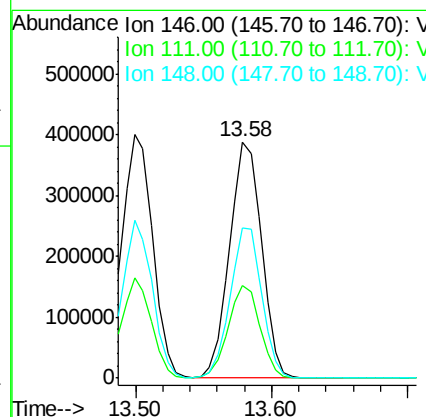
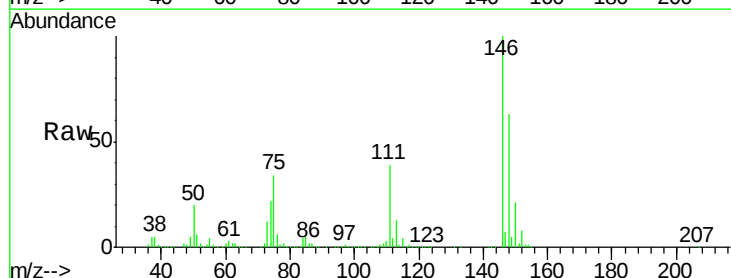
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

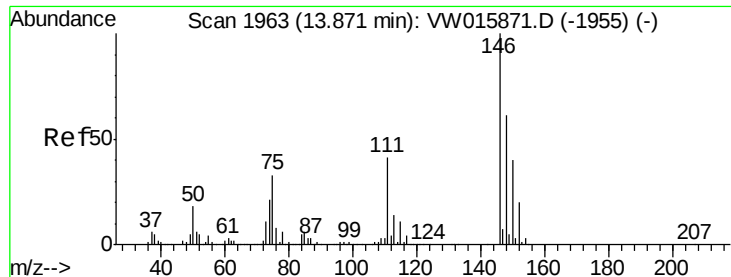
Tgt Ion:146 Resp: 646466  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 27.9 51.7  
 148 64.9 43.2 80.2



#64  
 1,4-Dichlorobenzene  
 Concen: 50.367 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Tgt Ion:146 Resp: 636264  
 Ion Ratio Lower Upper  
 146 100  
 111 39.1 29.3 54.3  
 148 63.3 44.5 82.7

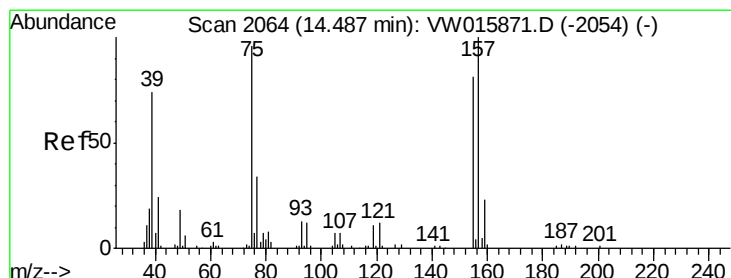
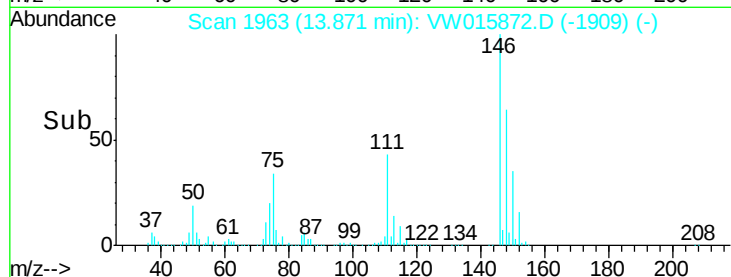
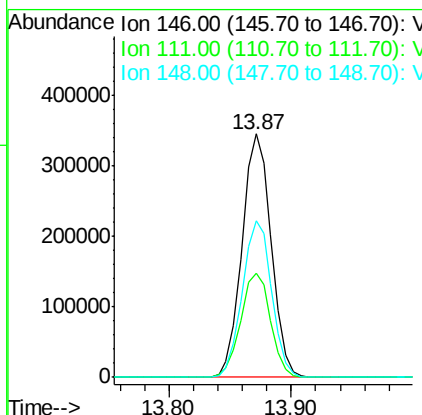
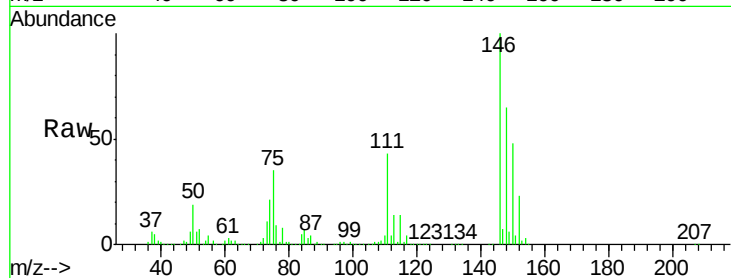




#65  
 1,2-Dichlorobenzene  
 Concen: 49.692 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

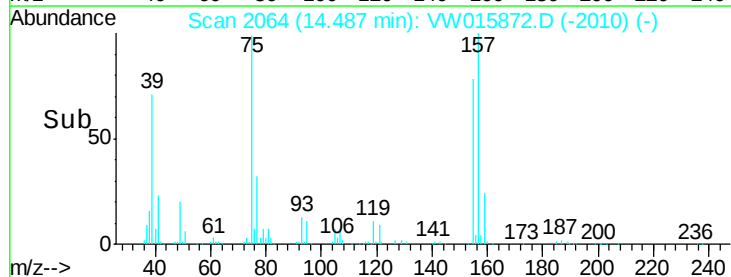
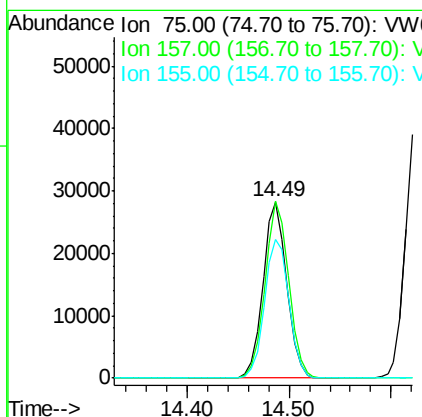
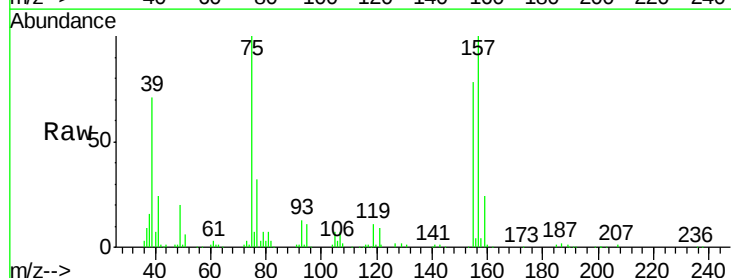
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05003

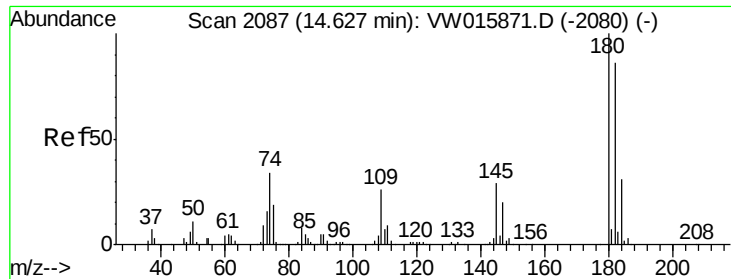
Tgt Ion:146 Resp: 567429  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 32.9 49.3  
 148 64.5 48.8 73.2



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 61.885 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW015872.D  
 Acq: 20 Jul 2020 12:34

Tgt Ion: 75 Resp: 45344  
 Ion Ratio Lower Upper  
 75 100  
 157 100.5 83.0 124.4  
 155 78.7 66.9 100.3





#67

1,3,5-Trichlorobenzene

Concen: 52.377 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05003

Tgt Ion:180 Resp: 441439

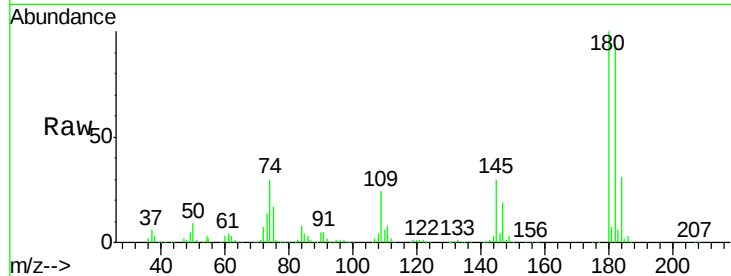
Ion Ratio Lower Upper

180 100

182 95.0 75.4 113.0

184 29.8 24.6 37.0

145 30.9 24.1 36.1

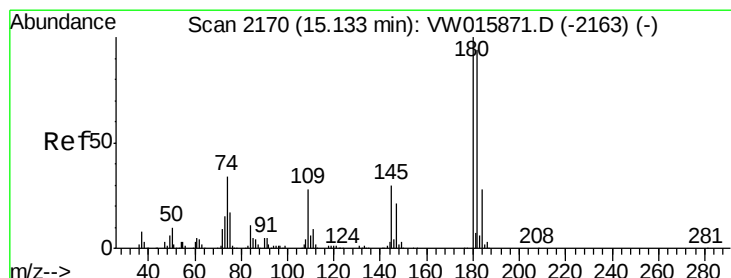
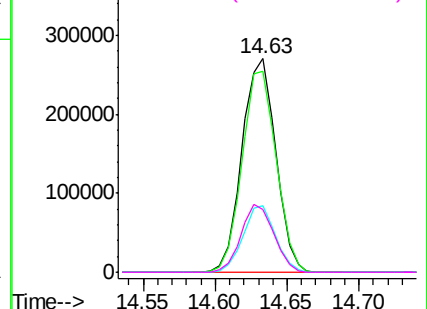
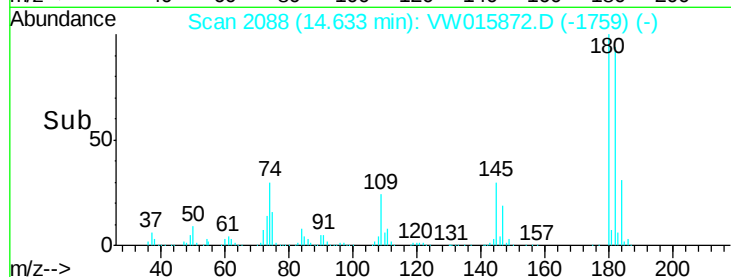


Abundance Ion 180.00 (179.70 to 180.70): V

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



#68

1,2,4-trichlorobenzene

Concen: 56.454 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

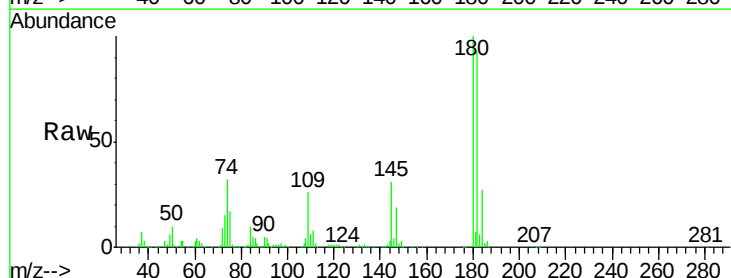
Tgt Ion:180 Resp: 373113

Ion Ratio Lower Upper

180 100

182 96.2 76.0 114.0

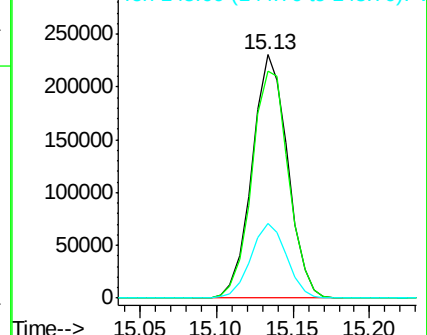
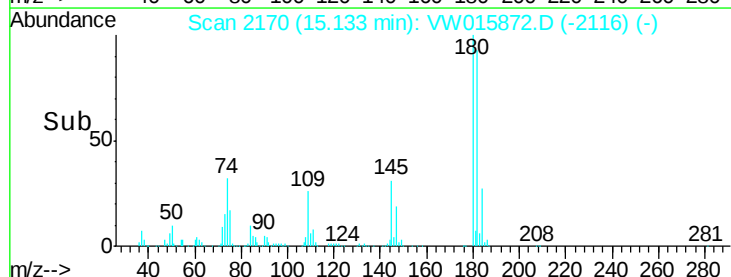
145 30.9 24.3 36.5

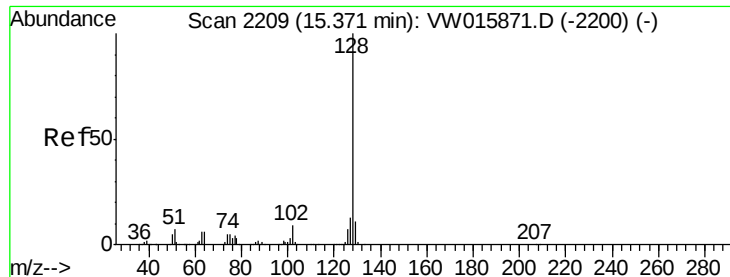


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 62.179 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05003

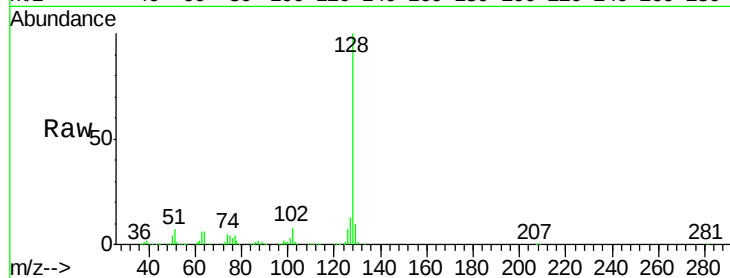
Tgt Ion:128 Resp: 735874

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

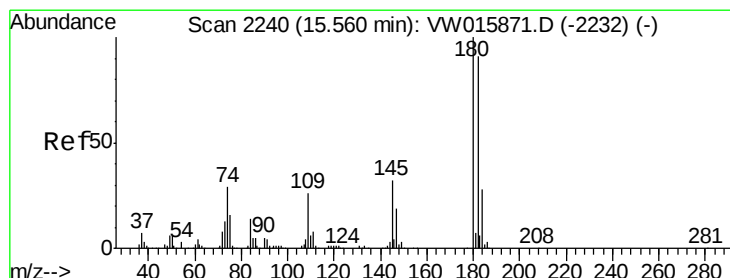
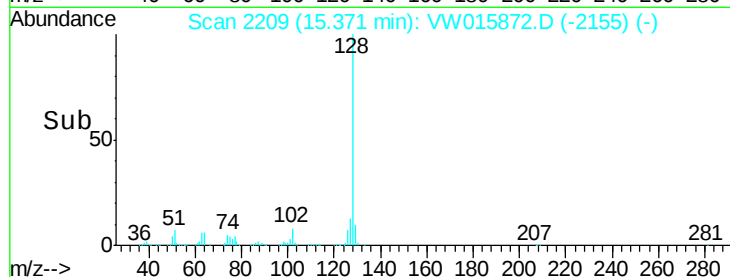
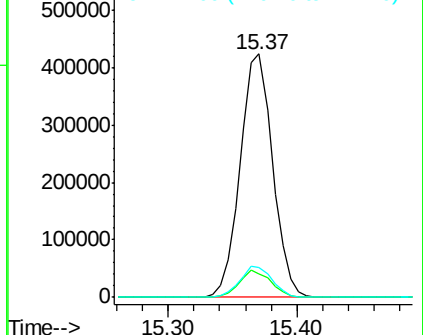
127 12.8 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.305 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW015872.D

Acq: 20 Jul 2020 12:34

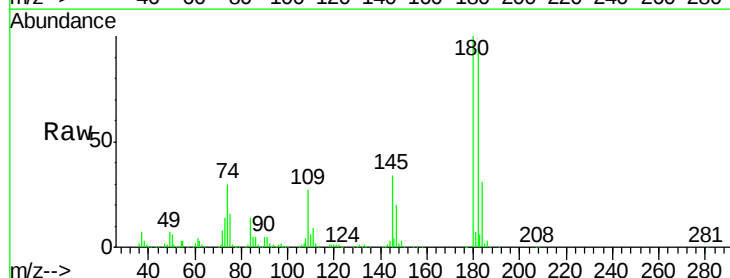
Tgt Ion:180 Resp: 316308

Ion Ratio Lower Upper

180 100

182 96.1 74.0 111.0

145 33.8 25.9 38.9



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

