

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY112320\  
 Data File : VY003586.D  
 Acq On : 23 Nov 2020 11:28  
 Operator : SY/MD  
 Sample : VSTD05035  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

Quant Time: Nov 23 11:41:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL112320SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 23 11:38:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 223469   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 207370   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 107576   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.25  | 65  | 153232 | 47.42  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.77  | 69  | 122930 | 47.52  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.85  | 63  | 326955 | 55.23  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 6.90  | 46  | 138716 | 121.27 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.48  | 84  | 307536 | 61.25  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.14  | 65  | 168931 | 51.33  | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.11  | 84  | 644080 | 56.64  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.12  | 67  | 195060 | 54.85  | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.17 | 98  | 591641 | 55.38  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.44 | 79  | 96041  | 56.46  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.78 | 63  | 111236 | 129.65 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.56 | 84  | 177501 | 56.29  | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.72 | 152 | 186757 | 46.64  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.92  | 85  | 68356  | 18.966 ug/L  | 97     |
| 3) Chloromethane               | 2.12  | 50  | 109872 | 27.171 ug/L  | 95     |
| 5) Vinyl chloride              | 2.26  | 62  | 160164 | 34.853 ug/L  | 97     |
| 6) Bromomethane                | 2.66  | 94  | 118791 | 43.166 ug/L  | 100    |
| 8) Chloroethane                | 2.80  | 64  | 100646 | 39.397 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 3.13  | 101 | 121880 | 24.631 ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.91  | 101 | 154444 | 47.872 ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 3.88  | 96  | 163984 | 53.122 ug/L  | 87     |
| 13) Acetone                    | 3.97  | 43  | 88471  | 111.662 ug/L | 98     |
| 14) Carbon disulfide           | 4.20  | 76  | 521993 | 48.245 ug/L  | 98     |
| 15) Methyl Acetate             | 4.48  | 43  | 117210 | 60.686 ug/L  | 100    |
| 16) Methylene chloride         | 4.71  | 84  | 174906 | 45.165 ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 5.22  | 96  | 173243 | 52.061 ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 5.22  | 73  | 264995 | 35.340 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 6.02  | 63  | 296377 | 50.999 ug/L  | 97     |
| 20) cis-1,2-Dichloroethene     | 6.99  | 96  | 183745 | 52.716 ug/L  | 96     |
| 22) 2-Butanone                 | 7.00  | 43  | 153232 | 119.533 ug/L | 99     |
| 23) Bromochloromethane         | 7.34  | 128 | 87577  | 52.075 ug/L  | 98     |
| 25) Chloroform                 | 7.51  | 83  | 292254 | 44.199 ug/L  | 94     |
| 27) 1,2-Dichloroethane         | 8.24  | 62  | 198534 | 49.420 ug/L  | 99     |
| 29) Cyclohexane                | 7.78  | 56  | 270947 | 49.910 ug/L  | 99     |
| 30) 1,1,1-Trichloroethane      | 7.71  | 97  | 228603 | 44.011 ug/L  | 99     |
| 31) Carbon tetrachloride       | 7.90  | 117 | 223400 | 47.463 ug/L  | 100    |
| 33) Benzene                    | 8.16  | 78  | 683389 | 52.262 ug/L  | 100    |
| 34) Trichloroethene            | 8.94  | 95  | 169953 | 48.942 ug/L  | 93     |
| 35) Methylcyclohexane          | 9.18  | 83  | 271562 | 47.128 ug/L  | 98     |
| 37) 1,2-Dichloropropane        | 9.22  | 63  | 172215 | 52.200 ug/L  | 100    |
| 38) Bromodichloromethane       | 9.50  | 83  | 219771 | 50.791 ug/L  | 97     |
| 39) cis-1,3-Dichloropropene    | 9.92  | 75  | 278874 | 53.230 ug/L  | 94     |
| 40) 4-Methyl-2-pentanone       | 10.07 | 43  | 306114 | 114.377 ug/L | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY112320\  
 Data File : VY003586.D  
 Acq On : 23 Nov 2020 11:28  
 Operator : SY/MD  
 Sample : VSTD05035  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

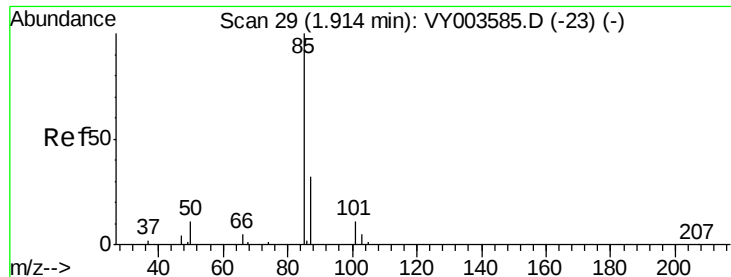
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

Quant Time: Nov 23 11:41:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL112320SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 23 11:38:00 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 10.24 | 91   | 732566   | 51.851  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 10.46 | 75   | 256974   | 53.565  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 10.64 | 97   | 142168   | 54.386  | ug/L  | 97       |
| 46) Tetrachloroethene          | 10.72 | 164  | 148025   | 47.760  | ug/L  | 97       |
| 48) 2-Hexanone                 | 10.83 | 43   | 243253   | 125.947 | ug/L  | 98       |
| 49) Dibromochloromethane       | 10.98 | 129  | 169089   | 52.832  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 11.08 | 107  | 140503   | 55.986  | ug/L  | 99       |
| 51) Chlorobenzene              | 11.51 | 112  | 462924   | 50.313  | ug/L  | 99       |
| 52) Ethylbenzene               | 11.59 | 91   | 769453   | 49.657  | ug/L  | 99       |
| 53) m,p-Xylene                 | 11.70 | 106  | 300004   | 50.633  | ug/L  | 97       |
| 54) o-Xylene                   | 12.03 | 106  | 251537   | 44.834  | ug/L  | 99       |
| 55) Styrene                    | 12.04 | 104  | 503978   | 51.111  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 175121   | 56.596  | ug/L  | 95       |
| 59) Bromoform                  | 12.20 | 173  | 116536   | 53.909  | ug/L  | 100      |
| 60) Isopropylbenzene           | 12.33 | 105  | 555902   | 39.154  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane     | 12.63 | 75   | 128323   | 54.084  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 417983   | 36.281  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene     | 13.11 | 105  | 451193   | 40.854  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 13.36 | 146  | 347808   | 48.040  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene        | 13.44 | 146  | 352011   | 47.974  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene        | 13.73 | 146  | 294863   | 45.110  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 24133    | 43.683  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 188668   | 36.544  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene     | 15.00 | 180  | 171678   | 39.700  | ug/L  | 99       |
| 71) Naphthalene                | 15.23 | 128  | 324413   | 41.580  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 127395   | 34.759  | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 18.966 ug/L

RT: 1.92 min Scan# 30

Delta R.T. 0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

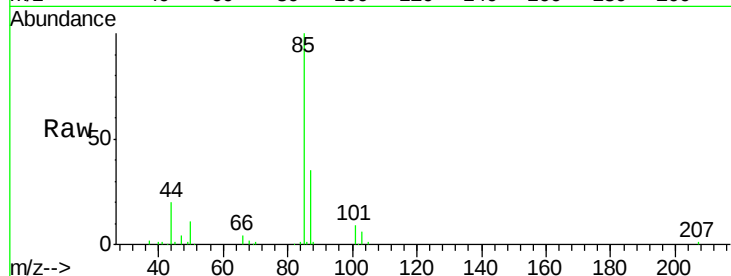
VSTD050405

Tgt Ion: 85 Resp: 68356

Ion Ratio Lower Upper

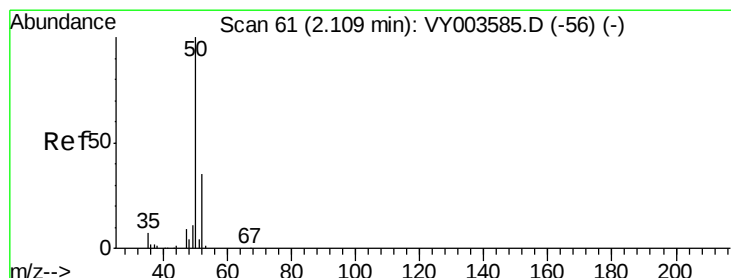
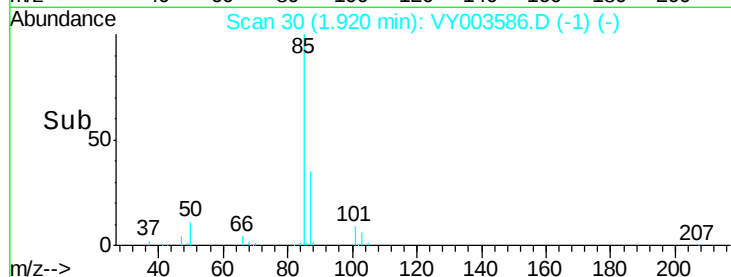
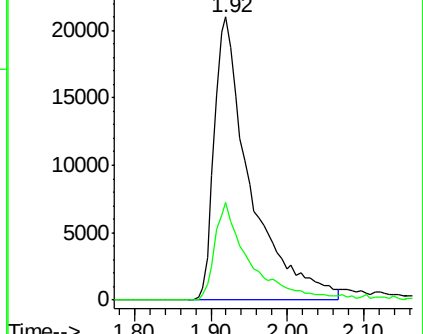
85 100

87 32.2 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 27.171 ug/L

RT: 2.12 min Scan# 62

Delta R.T. 0.01 min

Lab File: VY003586.D

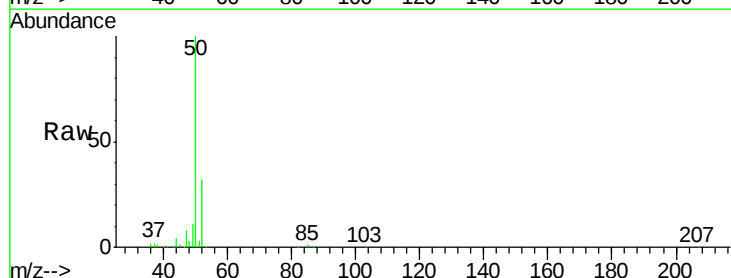
Acq: 23 Nov 2020 11:28

Tgt Ion: 50 Resp: 109872

Ion Ratio Lower Upper

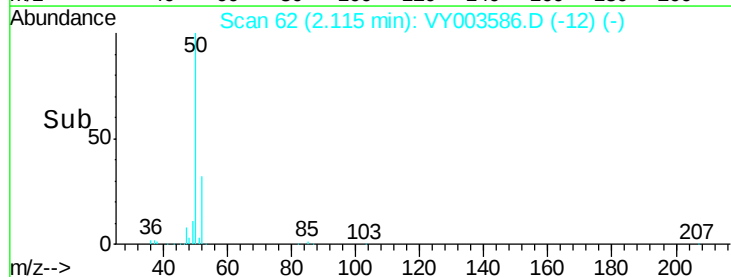
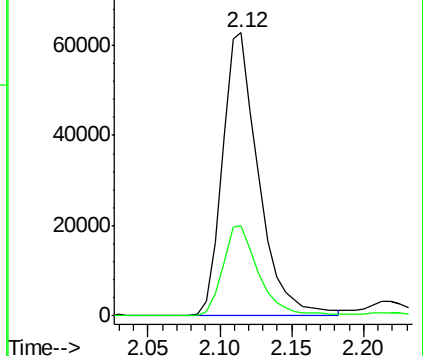
50 100

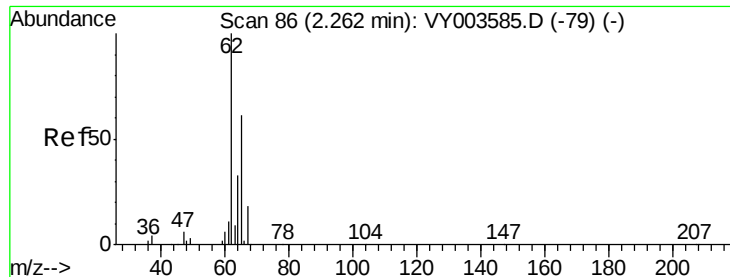
52 31.9 24.4 45.4



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 34.853 ug/L

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

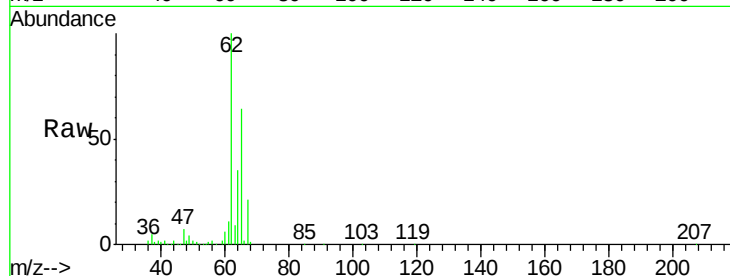
VSTD050405

Tgt Ion: 62 Resp: 160164

Ion Ratio Lower Upper

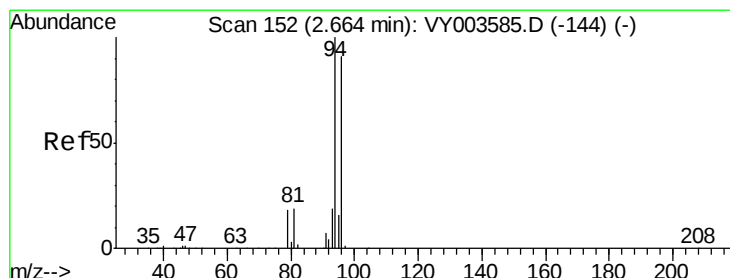
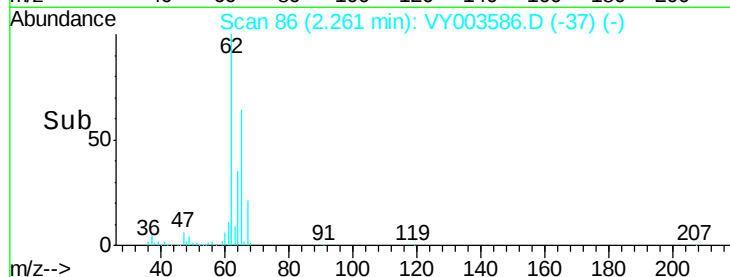
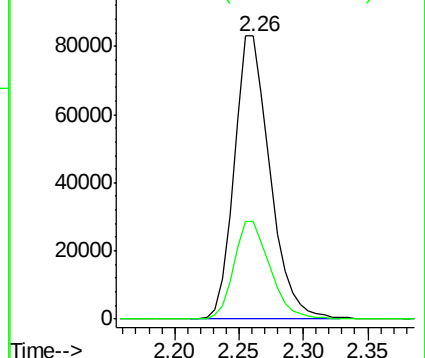
62 100

64 34.6 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 43.166 ug/L

RT: 2.66 min Scan# 151

Delta R.T. -0.01 min

Lab File: VY003586.D

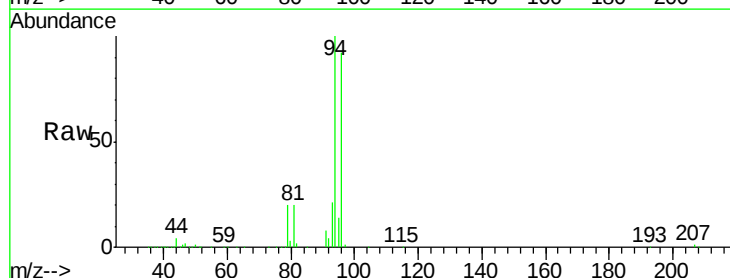
Acq: 23 Nov 2020 11:28

Tgt Ion: 94 Resp: 118791

Ion Ratio Lower Upper

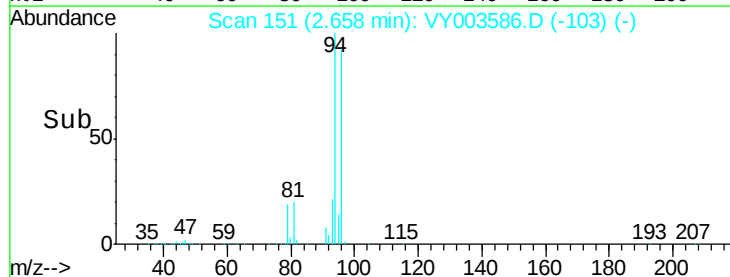
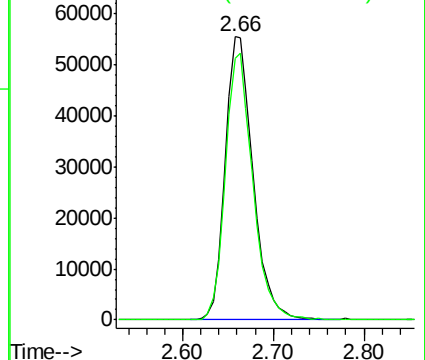
94 100

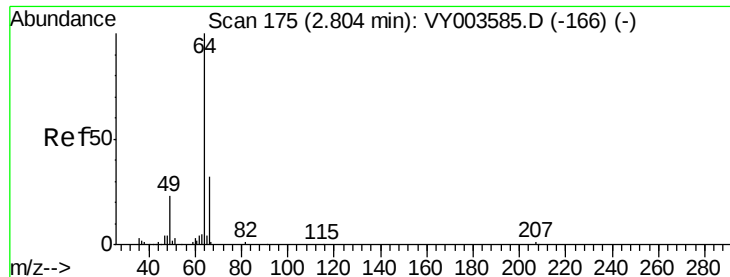
96 92.2 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 39.397 ug/L

RT: 2.80 min Scan# 174

Delta R.T. -0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

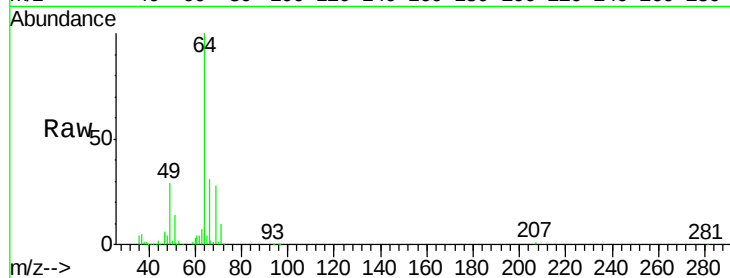
VSTD050405

Tgt Ion: 64 Resp: 100646

Ion Ratio Lower Upper

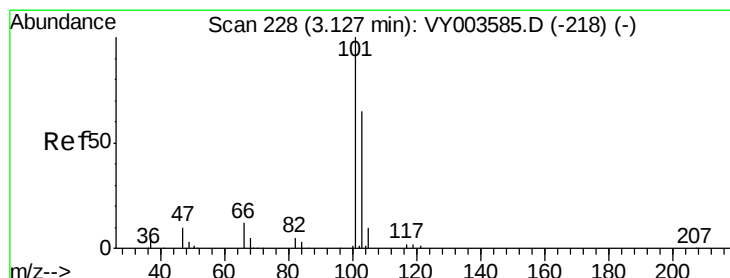
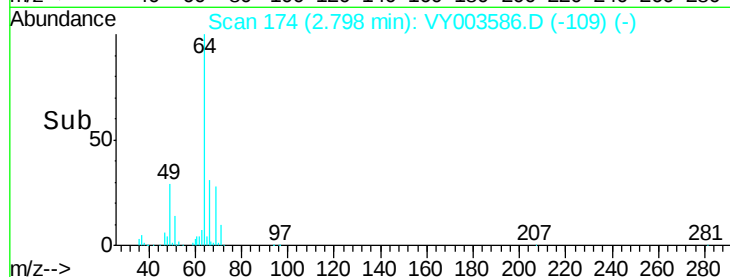
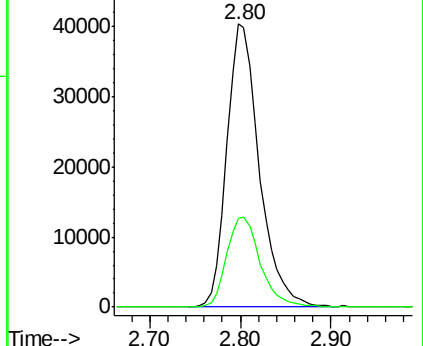
64 100

66 31.5 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VY0

Ion 66.00 (65.70 to 66.70): VY0



#9

Trichlorofluoromethane

Concen: 24.631 ug/L

RT: 3.13 min Scan# 228

Delta R.T. -0.00 min

Lab File: VY003586.D

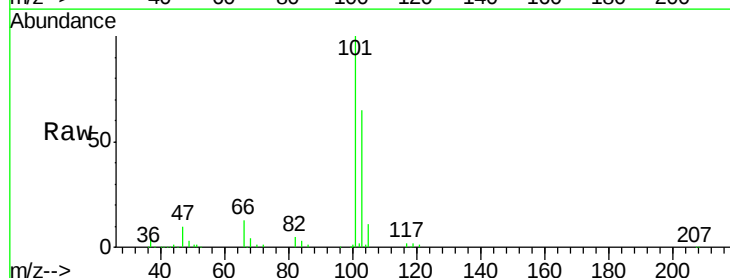
Acq: 23 Nov 2020 11:28

Tgt Ion: 101 Resp: 121880

Ion Ratio Lower Upper

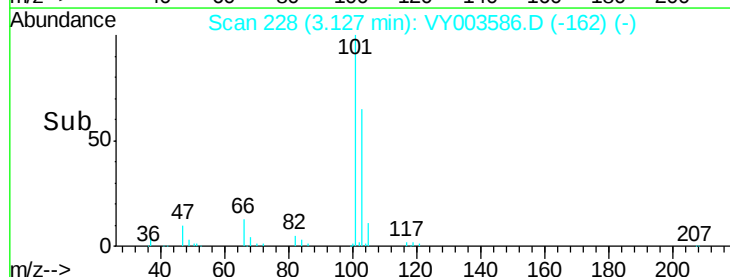
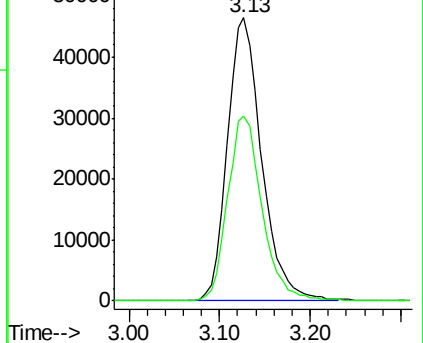
101 100

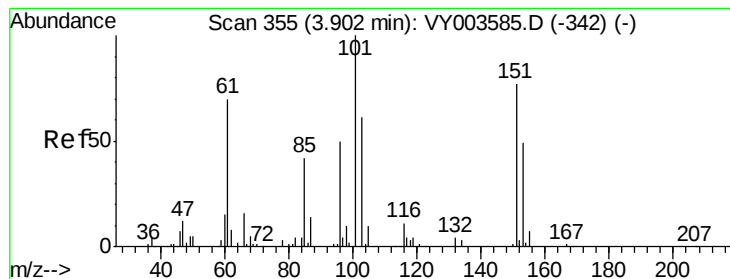
103 65.4 54.0 81.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 47.872 ug/L

RT: 3.91 min Scan# 356

Delta R.T. 0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

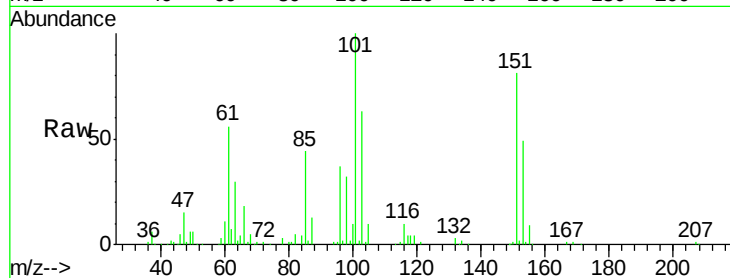
Tgt Ion:101 Resp: 154444

Ion Ratio Lower Upper

101 100

85 43.5 34.1 51.1

151 80.2 60.6 90.8

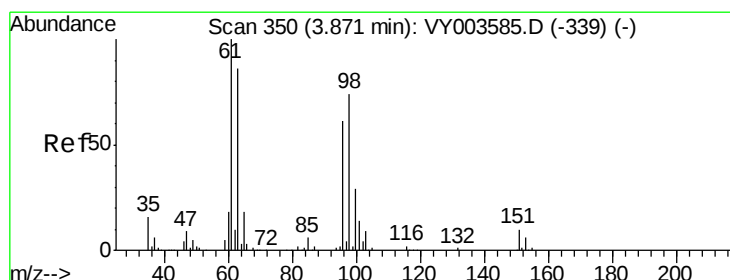
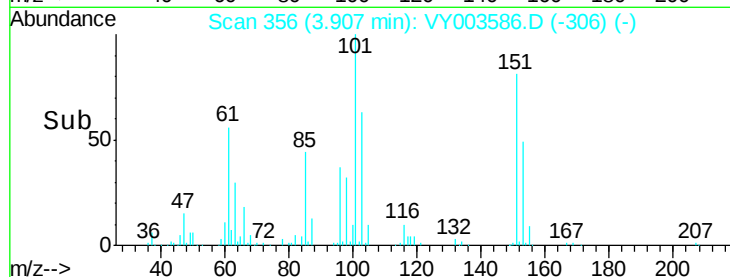


Abundance Ion 101.00 (100.70 to 101.70): VY003586.D (-306) (-)

Ion 85.00 (84.70 to 85.70): VY003586.D (-306) (-)

Ion 151.00 (150.70 to 151.70): VY003586.D (-306) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 53.122 ug/L

RT: 3.88 min Scan# 351

Delta R.T. 0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

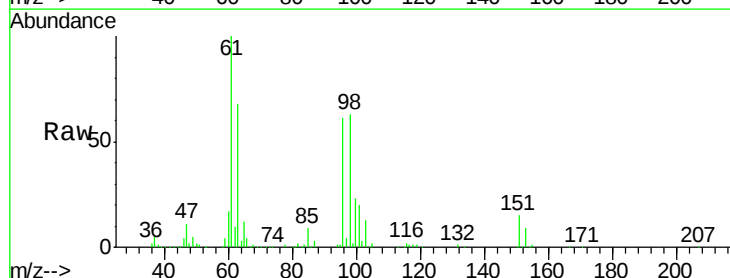
Tgt Ion: 96 Resp: 163984

Ion Ratio Lower Upper

96 100

61 164.2 114.5 212.7

63 111.1 100.8 187.2

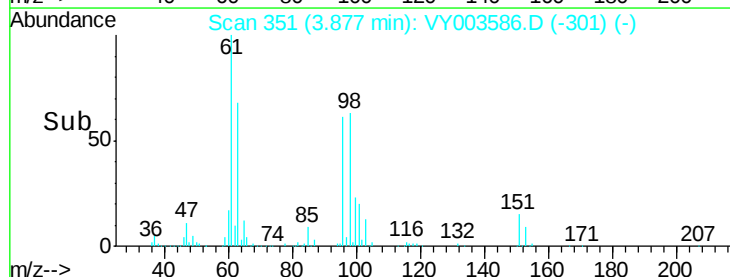


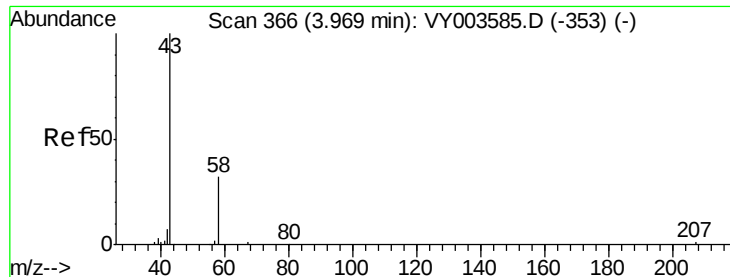
Abundance Ion 96.00 (95.70 to 96.70): VY003586.D (-301) (-)

Ion 61.00 (60.70 to 61.70): VY003586.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VY003586.D (-301) (-)

Time-->





#13

Acetone

Concen: 111.662 ug/L

RT: 3.97 min Scan# 366

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

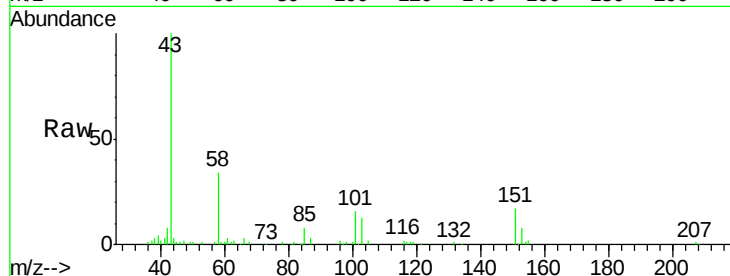
VSTD050405

Tgt Ion: 43 Resp: 88471

Ion Ratio Lower Upper

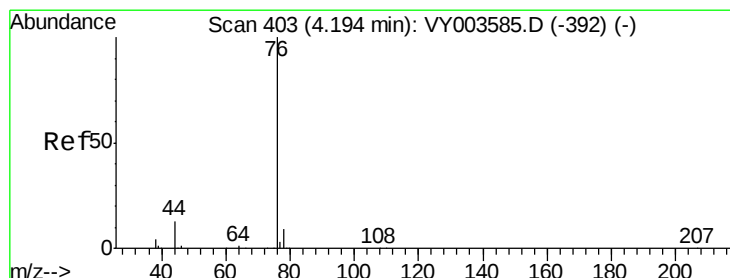
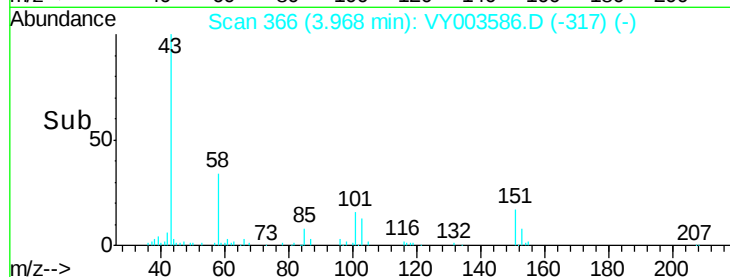
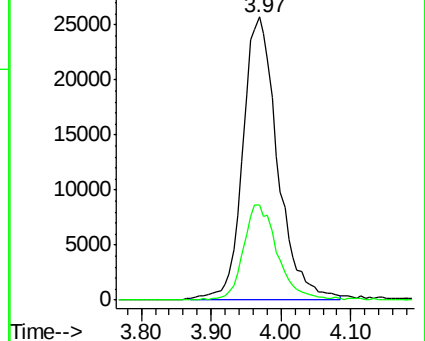
43 100

58 33.0 0.0 68.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 48.245 ug/L

RT: 4.20 min Scan# 404

Delta R.T. 0.01 min

Lab File: VY003586.D

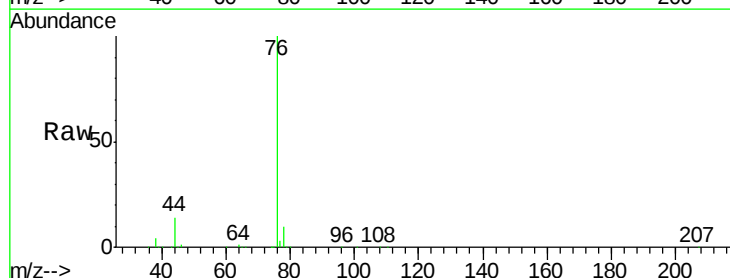
Acq: 23 Nov 2020 11:28

Tgt Ion: 76 Resp: 521993

Ion Ratio Lower Upper

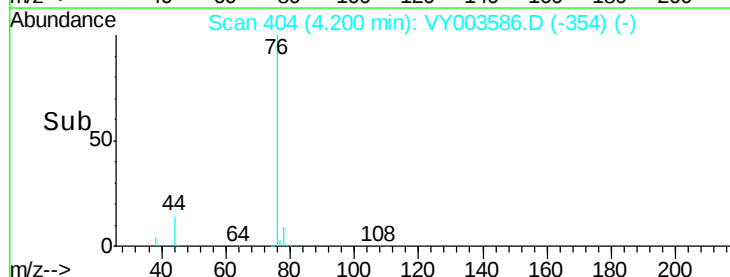
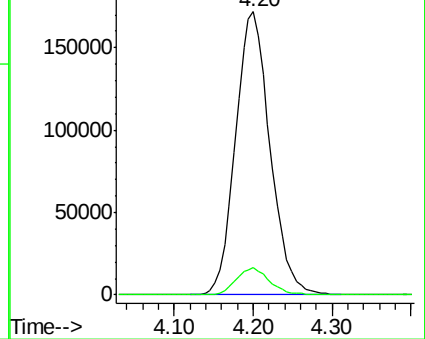
76 100

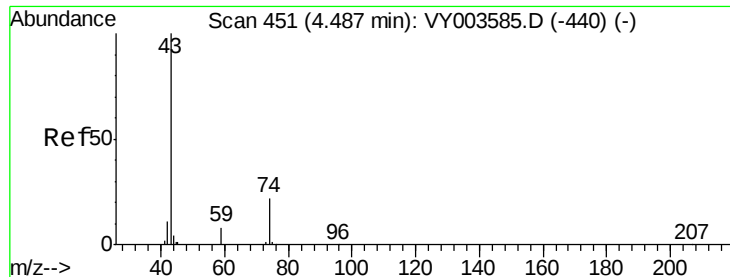
78 9.5 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

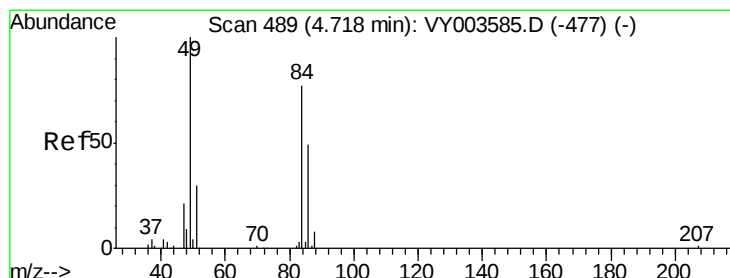
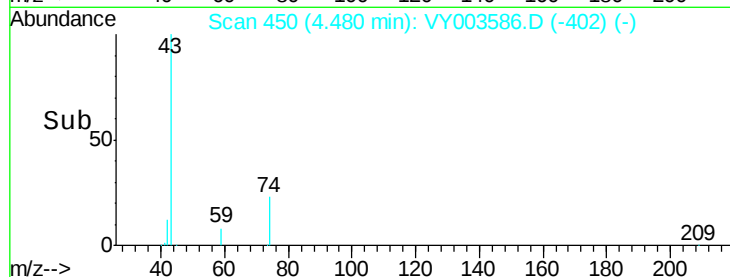
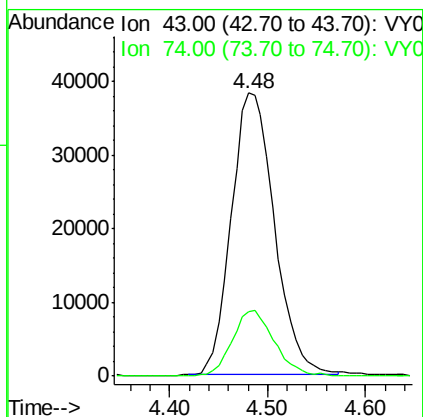
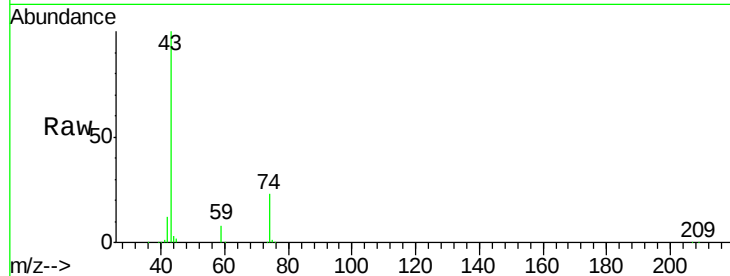




#15  
Methyl Acetate  
Concen: 60.686 ug/L  
RT: 4.48 min Scan# 450  
Delta R.T. -0.01 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

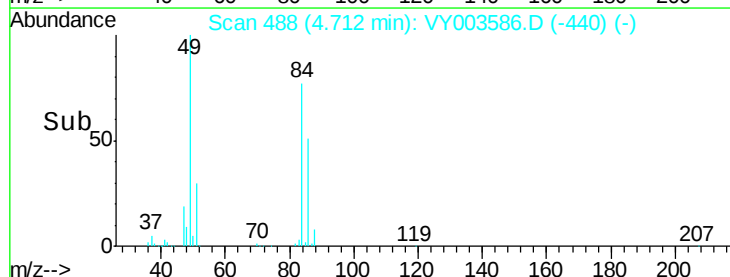
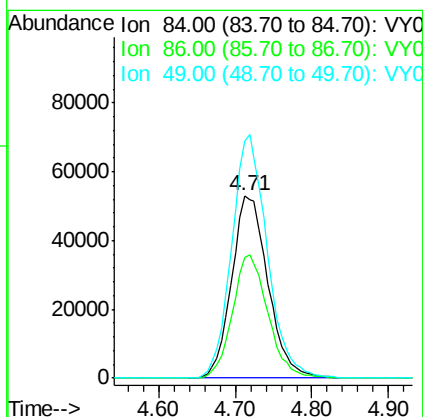
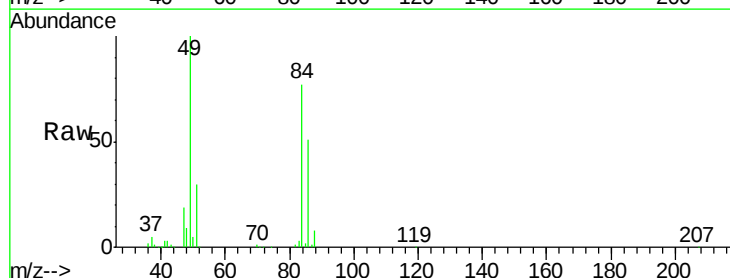
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD050405

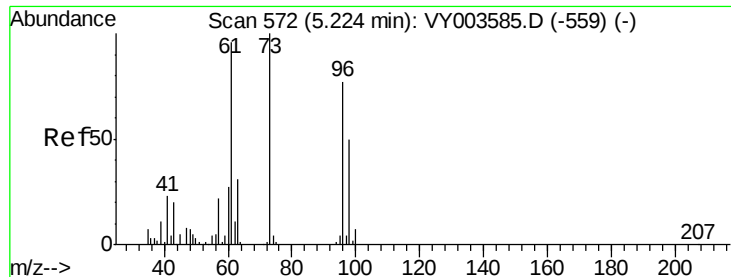
Tgt Ion: 43 Resp: 117210  
Ion Ratio Lower Upper  
43 100  
74 22.7 18.0 27.0



#16  
Methylene chloride  
Concen: 45.165 ug/L  
RT: 4.71 min Scan# 488  
Delta R.T. -0.01 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

Tgt Ion: 84 Resp: 174906  
Ion Ratio Lower Upper  
84 100  
86 65.8 45.2 84.0  
49 129.5 91.5 169.9





#17

trans-1,2-Dichloroethene

Concen: 52.061 ug/L

RT: 5.22 min Scan# 571

Delta R.T. -0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

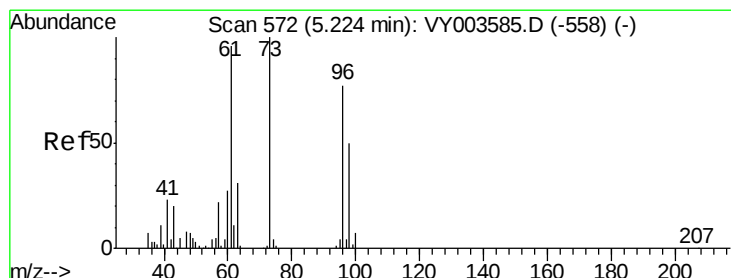
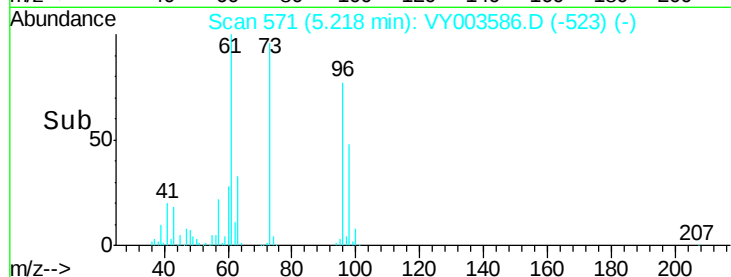
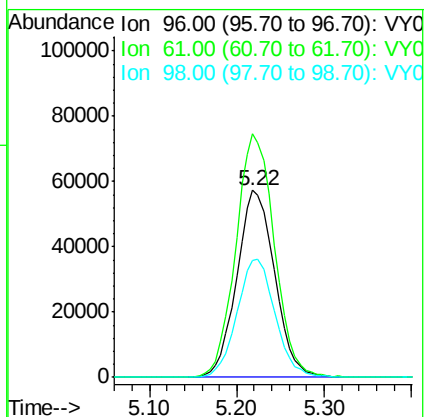
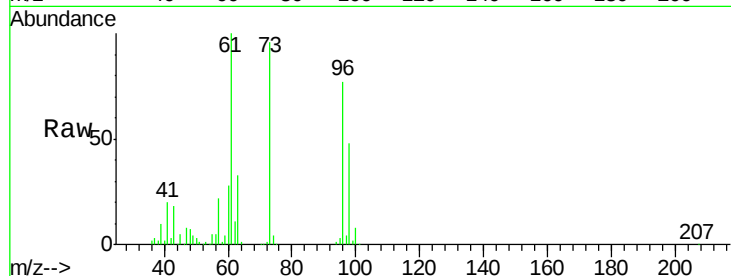
Tgt Ion: 96 Resp: 173243

Ion Ratio Lower Upper

96 100

61 130.1 87.2 161.9

98 62.4 45.2 84.0



#18

Methyl tert-butyl Ether

Concen: 35.340 ug/L

RT: 5.22 min Scan# 572

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

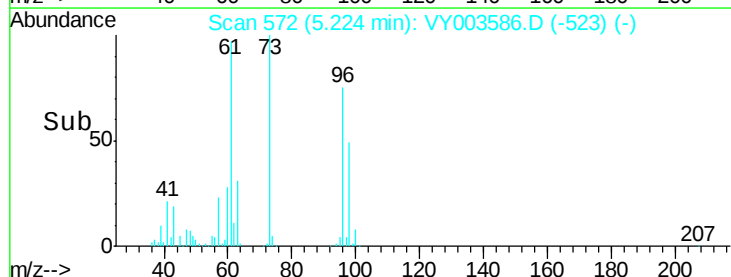
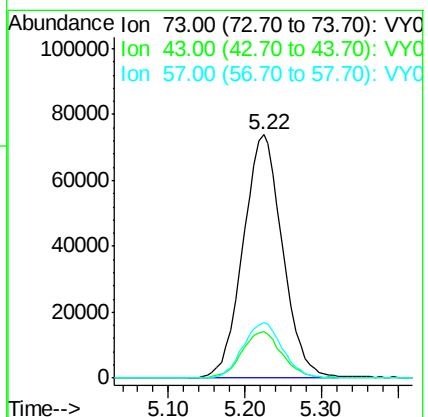
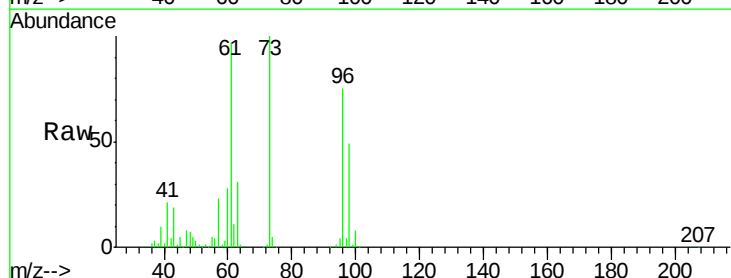
Tgt Ion: 73 Resp: 264995

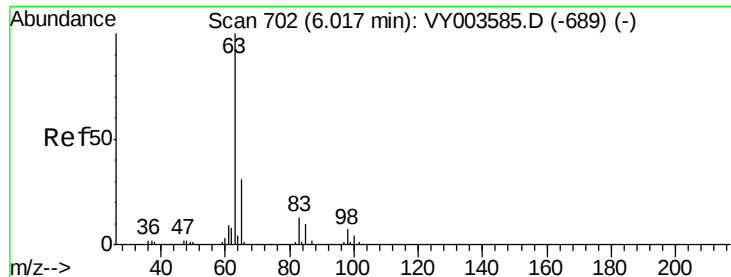
Ion Ratio Lower Upper

73 100

43 19.6 15.5 23.3

57 23.0 18.2 27.4

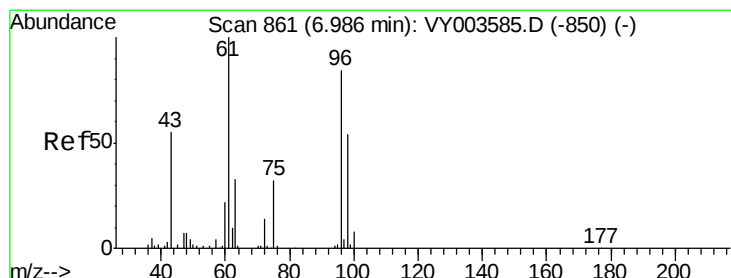
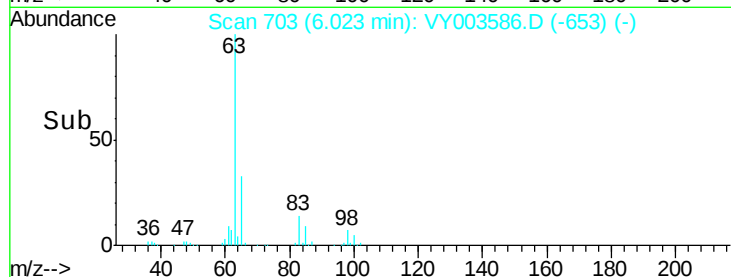
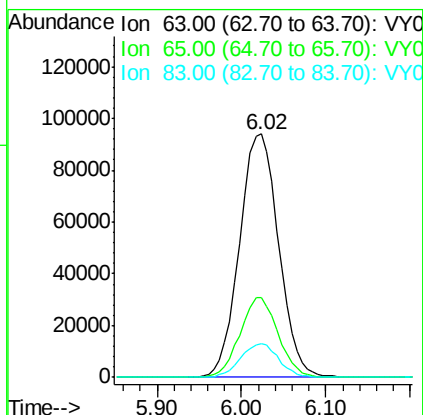
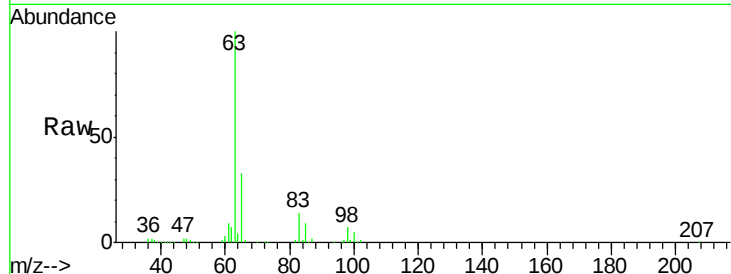




#19  
 1,1-Dichloroethane  
 Concen: 50.999 ug/L  
 RT: 6.02 min Scan# 703  
 Delta R.T. 0.01 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

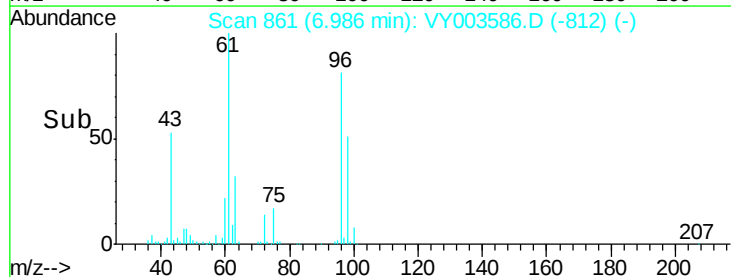
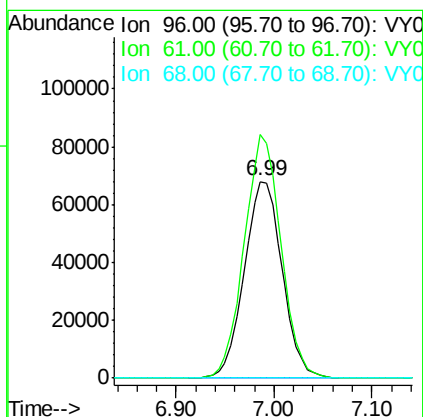
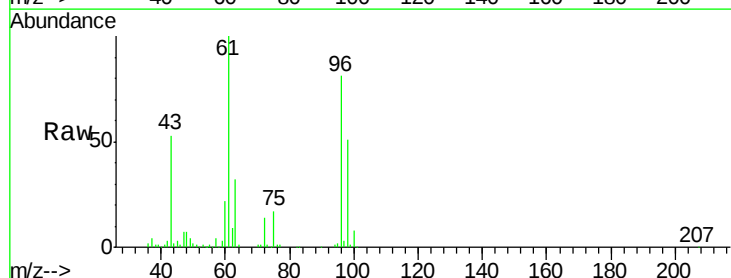
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

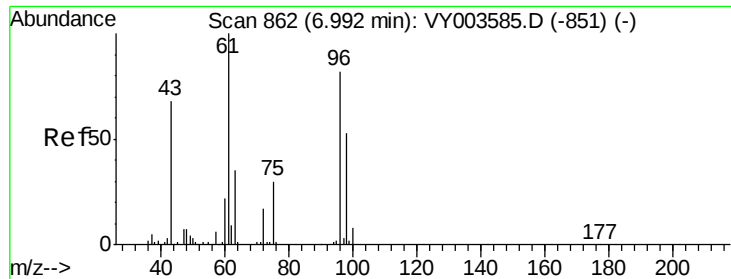
Tgt Ion: 63 Resp: 296377  
 Ion Ratio Lower Upper  
 63 100  
 65 32.5 21.7 40.3  
 83 13.7 8.9 16.5



#20  
 cis-1,2-Dichloroethene  
 Concen: 52.716 ug/L  
 RT: 6.99 min Scan# 861  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

Tgt Ion: 96 Resp: 183745  
 Ion Ratio Lower Upper  
 96 100  
 61 124.0 83.7 155.4  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 119.533 ug/L

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

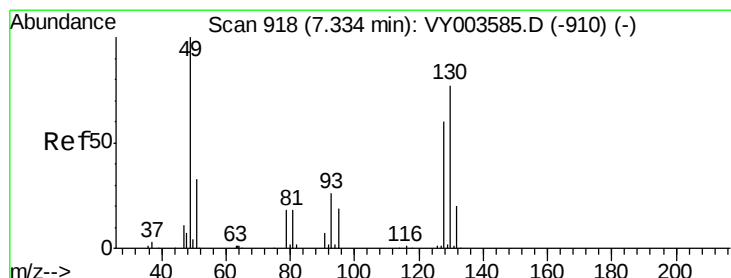
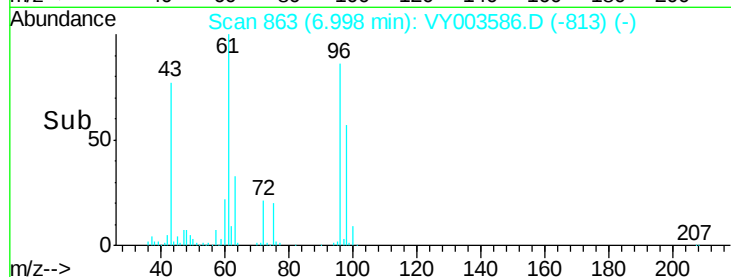
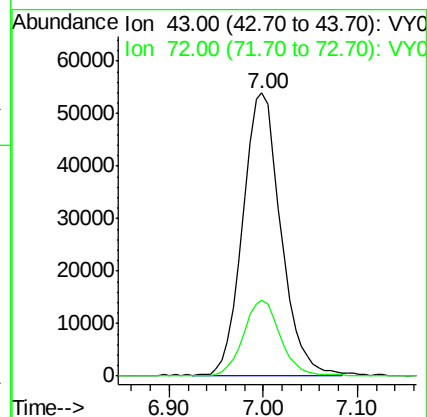
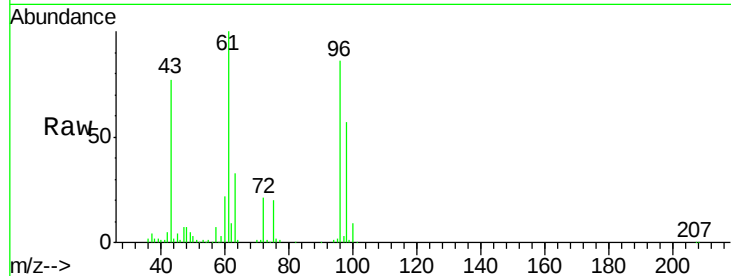
VSTD050405

Tgt Ion: 43 Resp: 153232

Ion Ratio Lower Upper

43 100

72 26.3 13.0 38.9



#23

Bromochloromethane

Concen: 52.075 ug/L

RT: 7.34 min Scan# 919

Delta R.T. 0.01 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Tgt Ion: 128 Resp: 87577

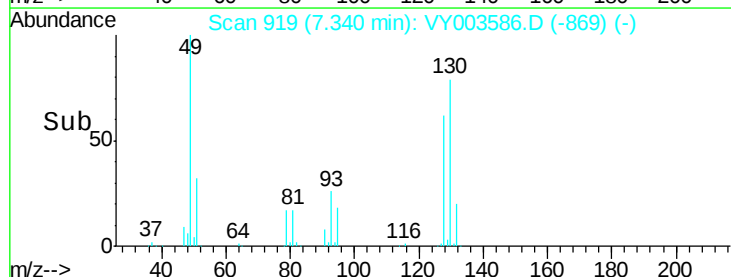
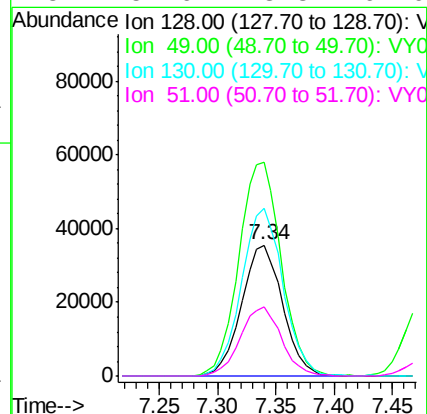
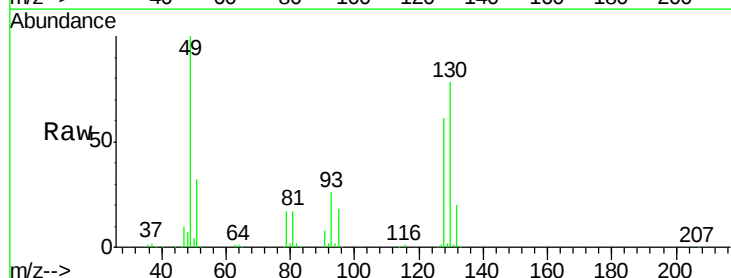
Ion Ratio Lower Upper

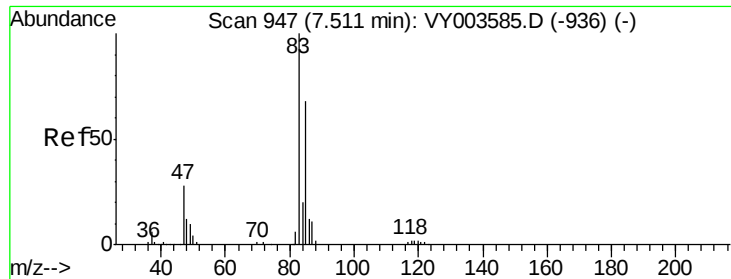
128 100

49 162.9 117.1 217.5

130 127.8 89.4 166.0

51 52.6 43.3 64.9





#25

Chloroform

Concen: 44.199 ug/L

RT: 7.51 min Scan# 947

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

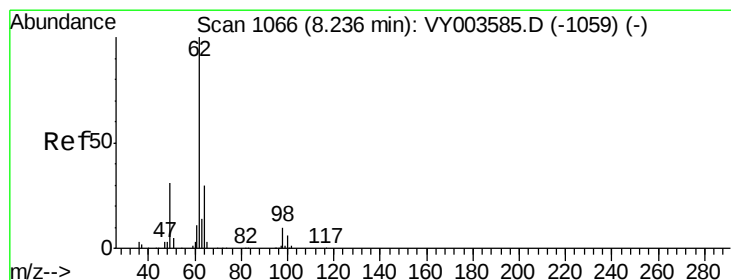
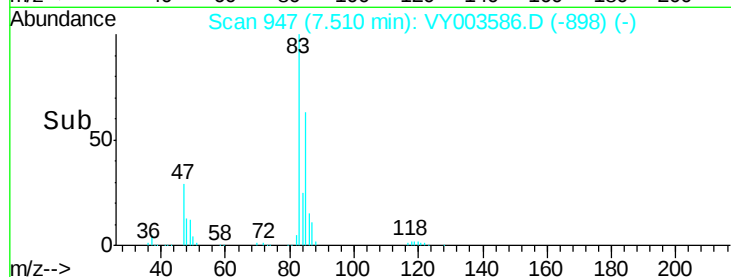
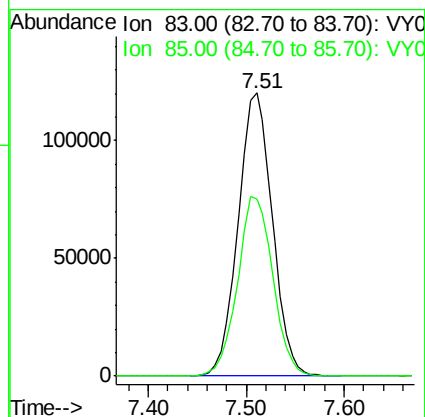
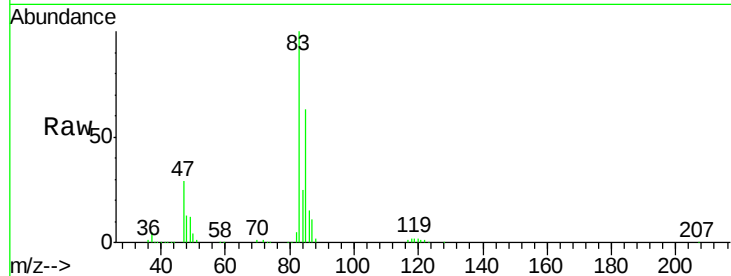
VSTD050405

Tgt Ion: 83 Resp: 292254

Ion Ratio Lower Upper

83 100

85 62.7 47.4 88.0



#27

1,2-Dichloroethane

Concen: 49.420 ug/L

RT: 8.24 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VY003586.D

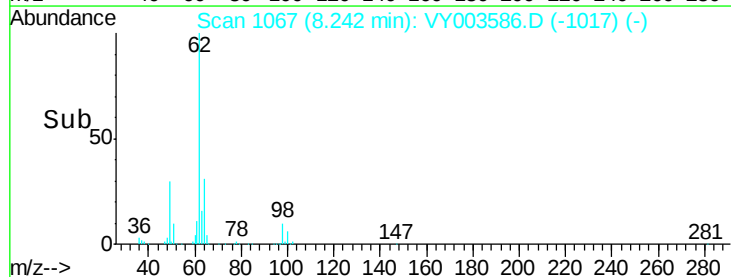
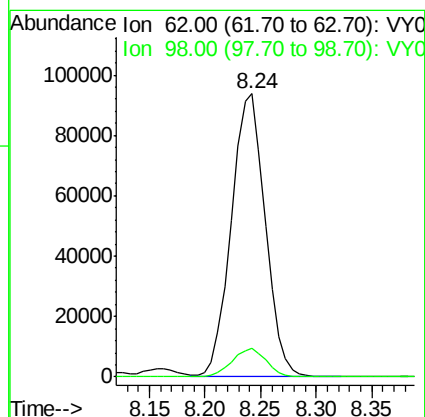
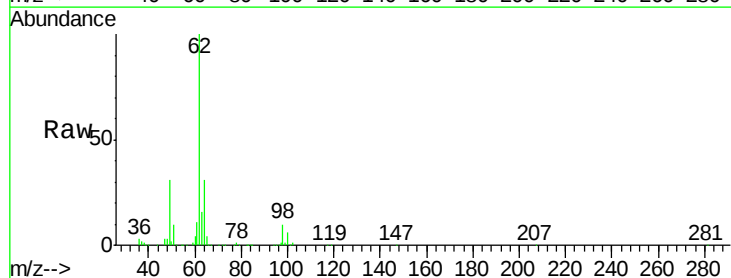
Acq: 23 Nov 2020 11:28

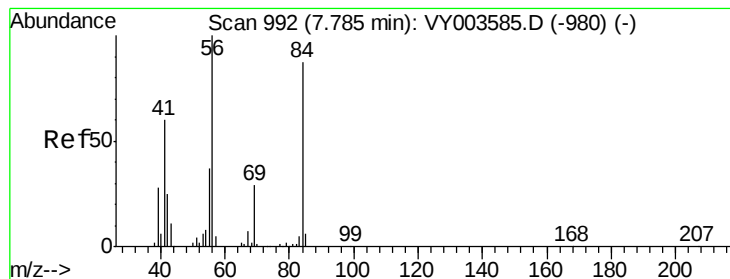
Tgt Ion: 62 Resp: 198534

Ion Ratio Lower Upper

62 100

98 10.2 7.9 11.9





#29

Cyclohexane

Concen: 49.910 ug/L

RT: 7.78 min Scan# 992

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

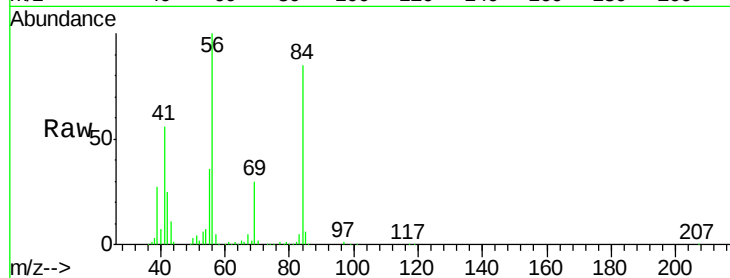
Tgt Ion: 56 Resp: 270947

Ion Ratio Lower Upper

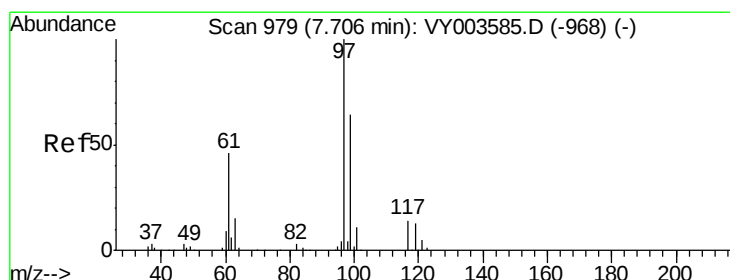
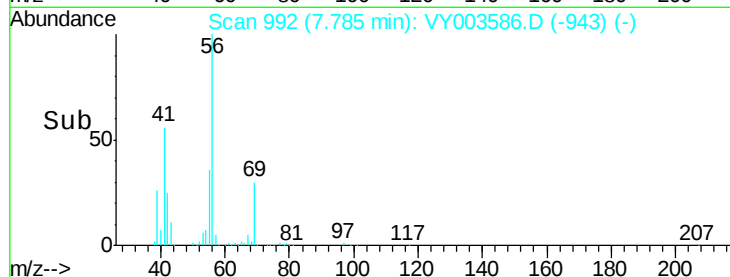
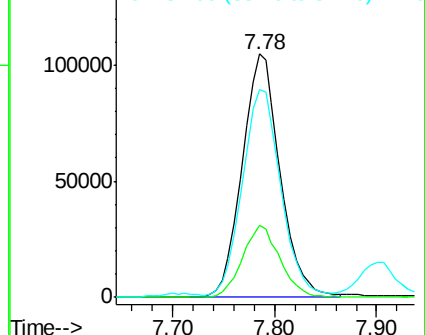
56 100

69 29.2 23.3 34.9

84 86.5 70.6 105.8



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#30

1,1,1-Trichloroethane

Concen: 44.011 ug/L

RT: 7.71 min Scan# 979

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

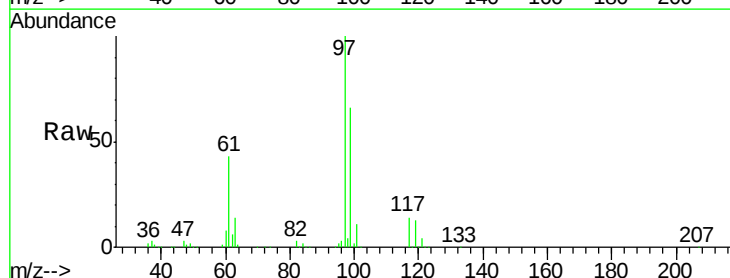
Tgt Ion: 97 Resp: 228603

Ion Ratio Lower Upper

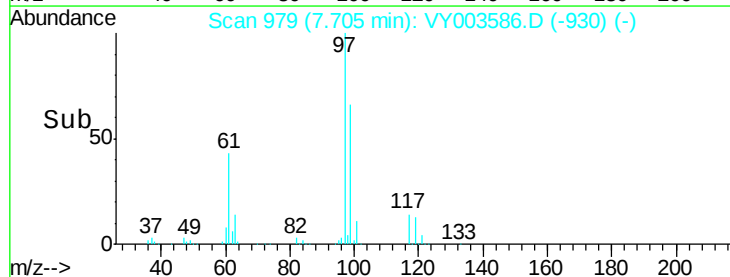
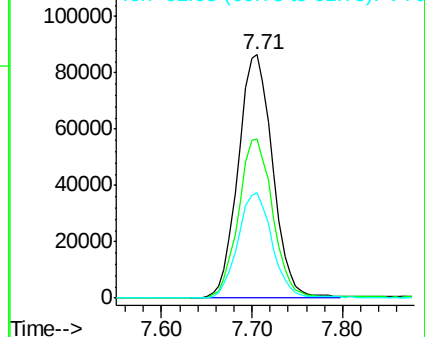
97 100

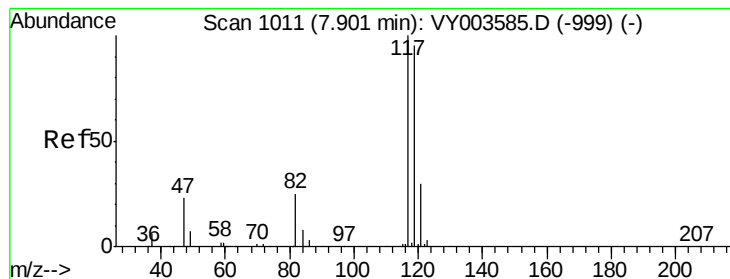
99 64.8 51.6 77.4

61 42.7 35.1 52.7



Abundance Ion 97.00 (96.70 to 97.70): VY0  
Ion 99.00 (98.70 to 99.70): VY0  
Ion 61.05 (60.75 to 61.75): VY0





#31

Carbon tetrachloride

Concen: 47.463 ug/L

RT: 7.90 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

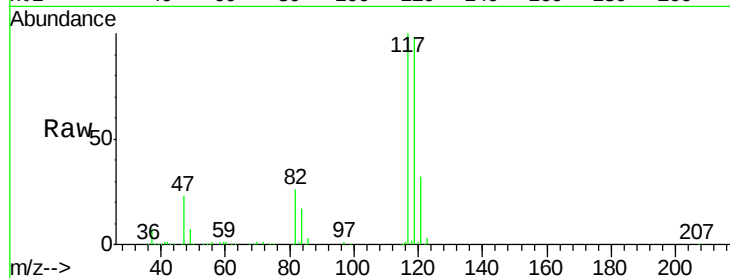
VSTD050405

Tgt Ion:117 Resp: 223400

Ion Ratio Lower Upper

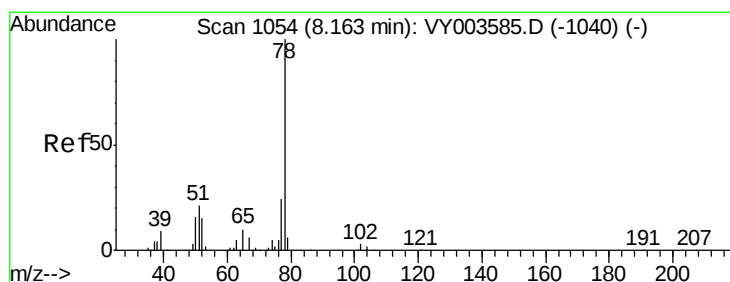
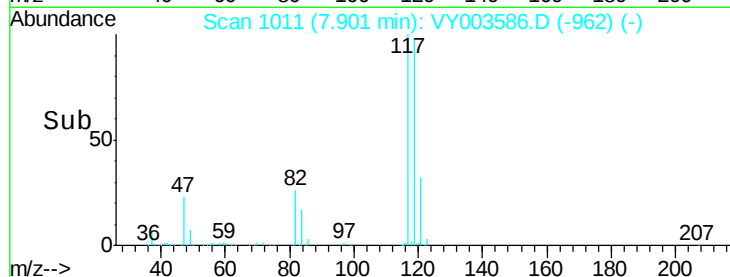
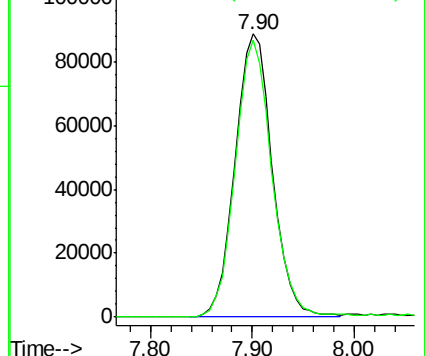
117 100

119 96.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.262 ug/L

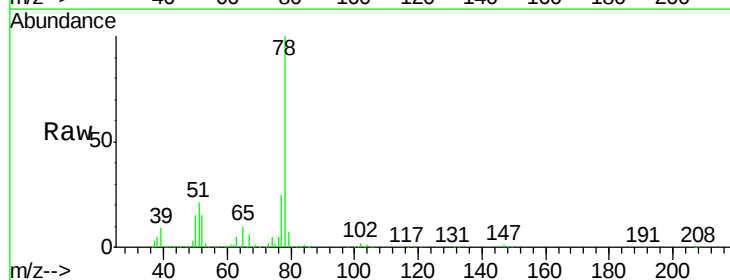
RT: 8.16 min Scan# 1054

Delta R.T. -0.00 min

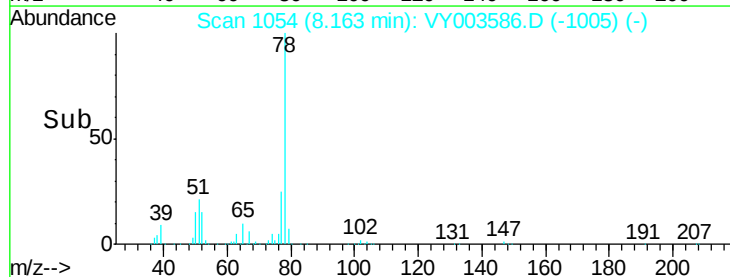
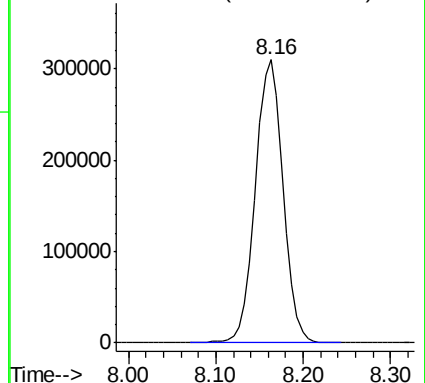
Lab File: VY003586.D

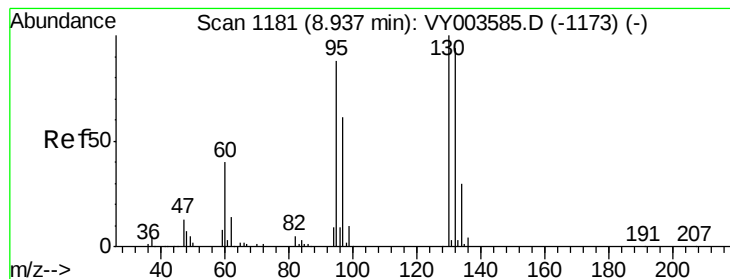
Acq: 23 Nov 2020 11:28

Tgt Ion: 78 Resp: 683389



Abundance Ion 78.00 (77.70 to 78.70): VY0





#34

Trichloroethene

Concen: 48.942 ug/L

RT: 8.94 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampled :

VSTD050405

Tgt Ion: 95 Resp: 169953

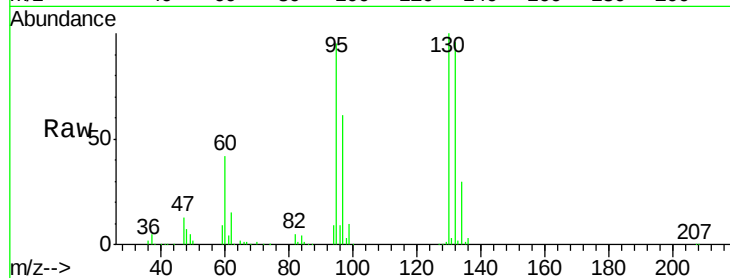
Ion Ratio Lower Upper

95 100

97 64.2 48.8 90.6

132 101.5 74.9 139.1

130 105.2 79.4 147.4

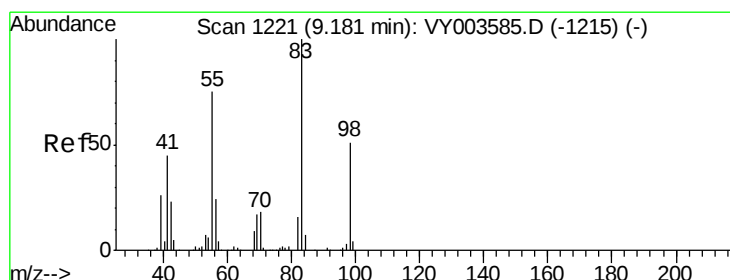
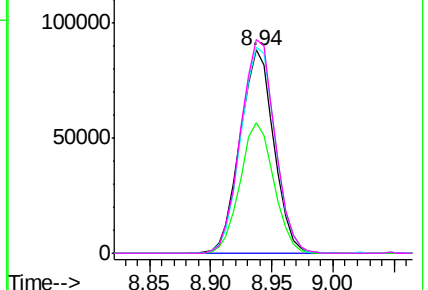
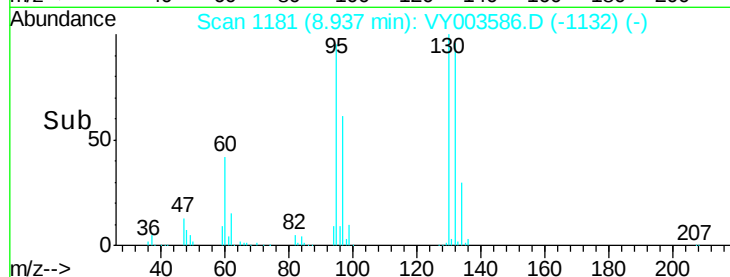


Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 47.128 ug/L

RT: 9.18 min Scan# 1221

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

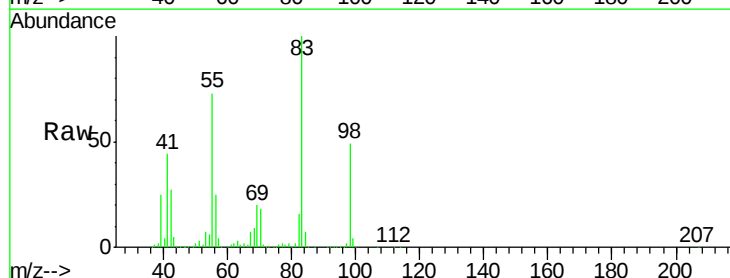
Tgt Ion: 83 Resp: 271562

Ion Ratio Lower Upper

83 100

55 77.1 59.0 88.6

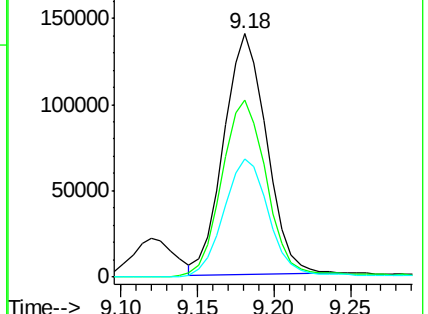
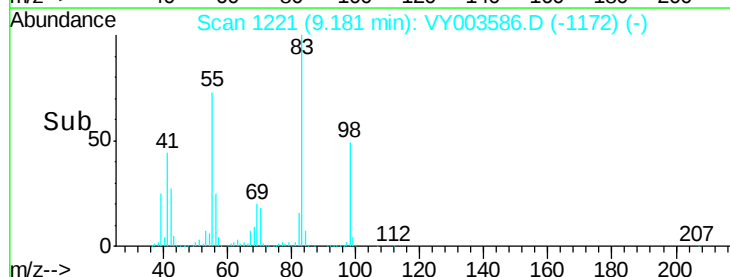
98 50.5 40.2 60.4

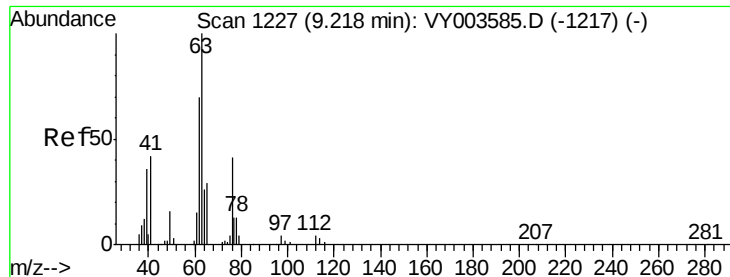


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

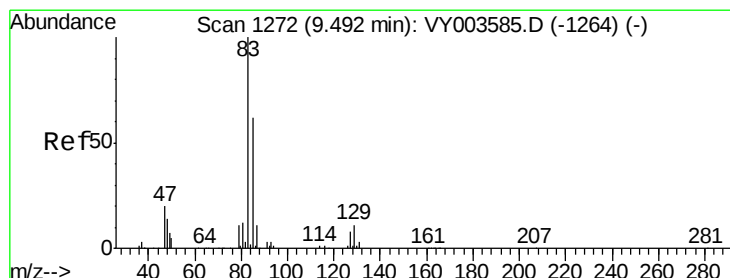
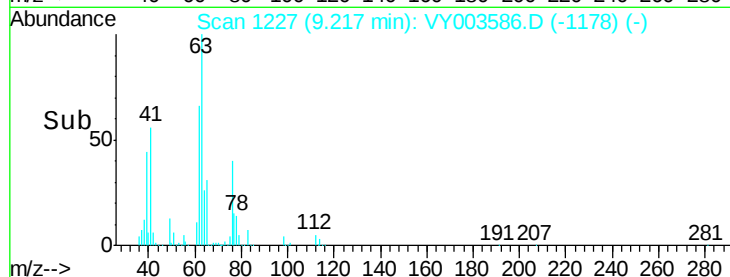
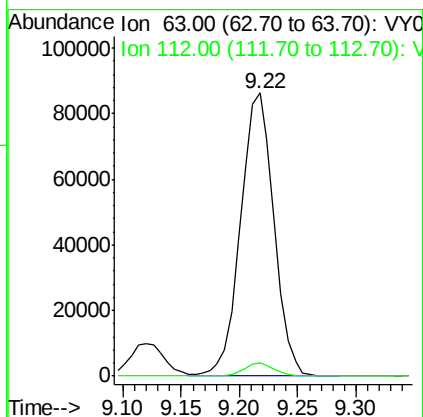
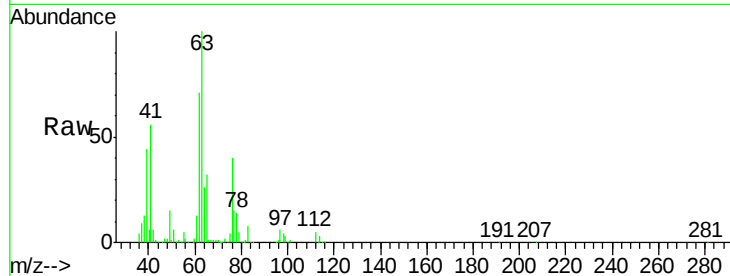




#37  
 1,2-Dichloropropane  
 Concen: 52.200 ug/L  
 RT: 9.22 min Scan# 1227  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

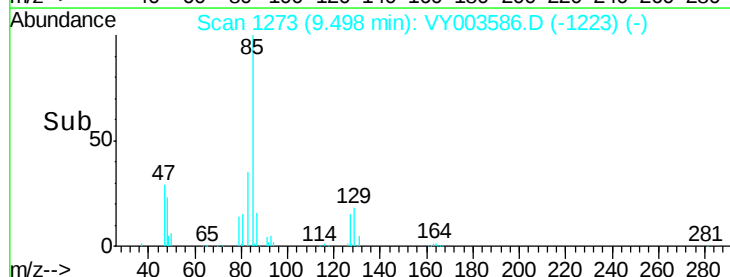
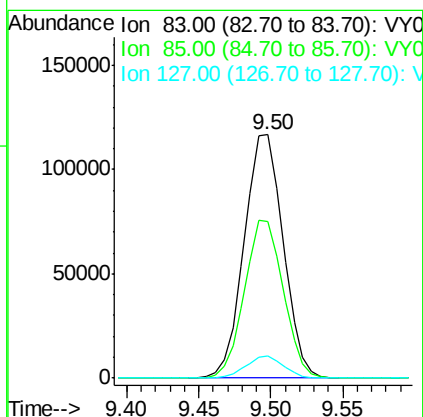
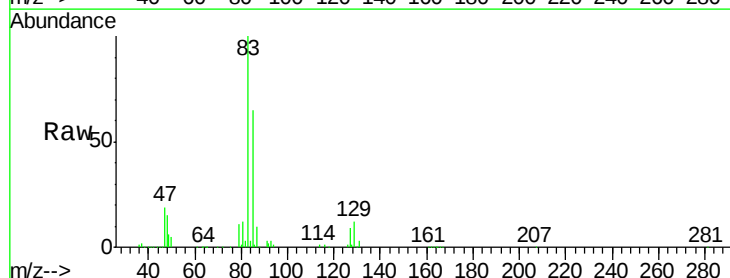
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

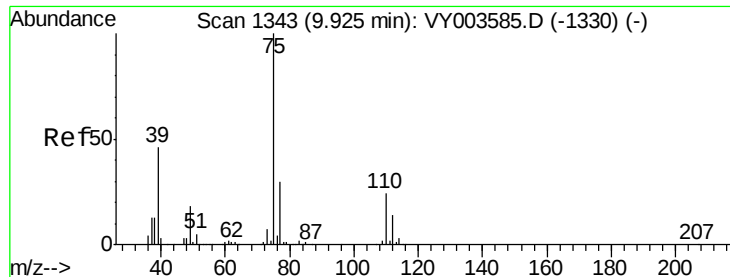
Tgt Ion: 63 Resp: 172215  
 Ion Ratio Lower Upper  
 63 100  
 112 4.3 3.4 5.2



#38  
 Bromodichloromethane  
 Concen: 50.791 ug/L  
 RT: 9.50 min Scan# 1273  
 Delta R.T. 0.01 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

Tgt Ion: 83 Resp: 219771  
 Ion Ratio Lower Upper  
 83 100  
 85 64.5 43.5 80.9  
 127 9.4 6.5 9.7

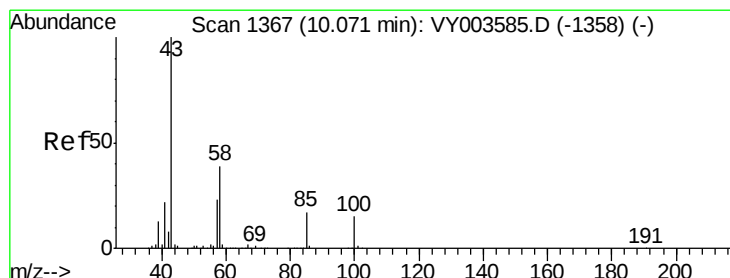
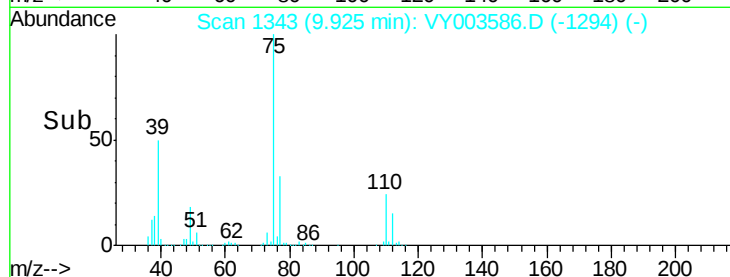
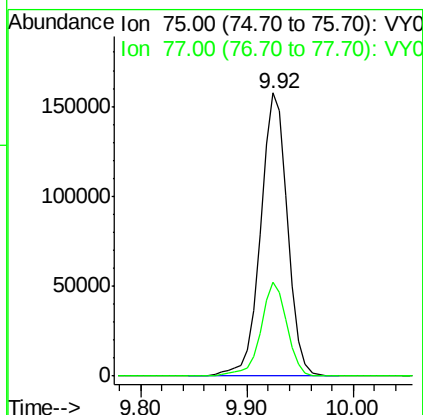
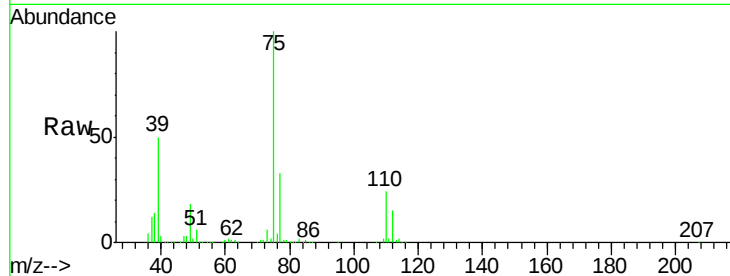




#39  
 cis-1,3-Dichloropropene  
 Concen: 53.230 ug/L  
 RT: 9.92 min Scan# 1343  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

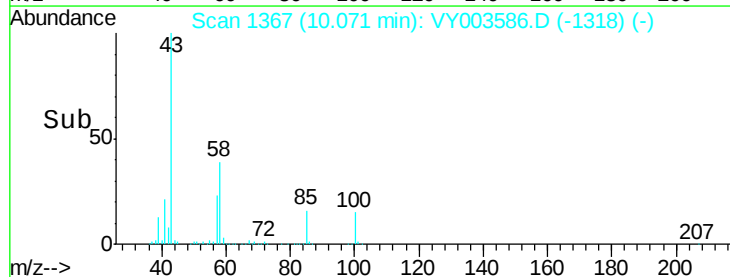
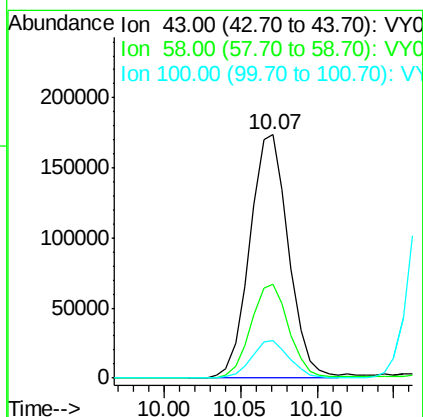
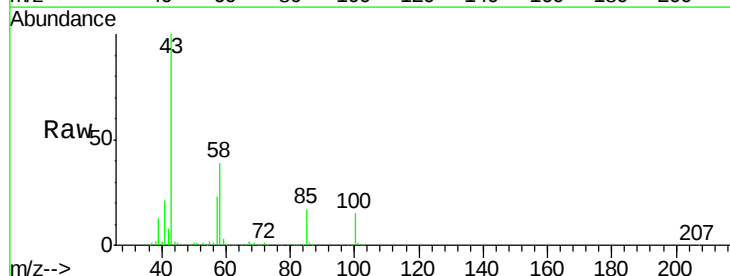
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

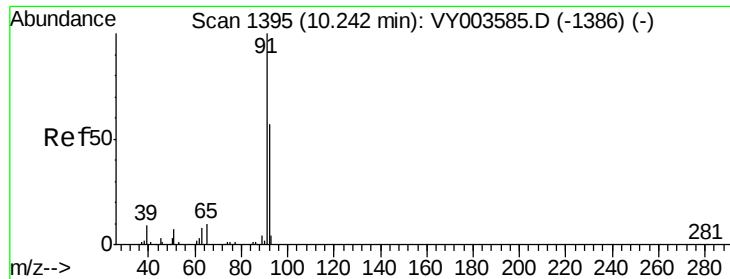
Tgt Ion: 75 Resp: 278874  
 Ion Ratio Lower Upper  
 75 100  
 77 33.1 20.9 38.9



#40  
 4-Methyl-2-pentanone  
 Concen: 114.377 ug/L  
 RT: 10.07 min Scan# 1367  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

Tgt Ion: 43 Resp: 306114  
 Ion Ratio Lower Upper  
 43 100  
 58 38.0 29.8 44.6  
 100 15.0 12.0 18.0





#42

Toluene

Concen: 51.851 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

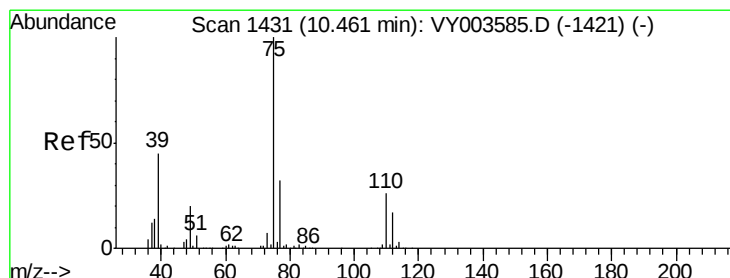
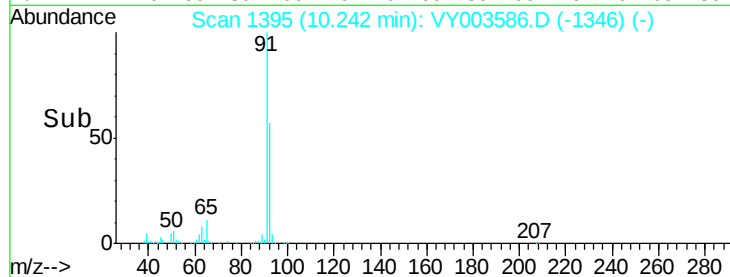
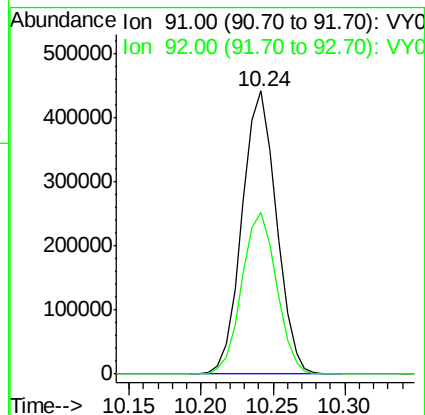
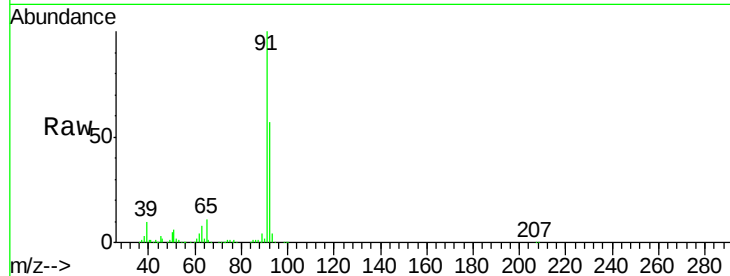
VSTD050405

Tgt Ion: 91 Resp: 732566

Ion Ratio Lower Upper

91 100

92 57.3 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 53.565 ug/L

RT: 10.46 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VY003586.D

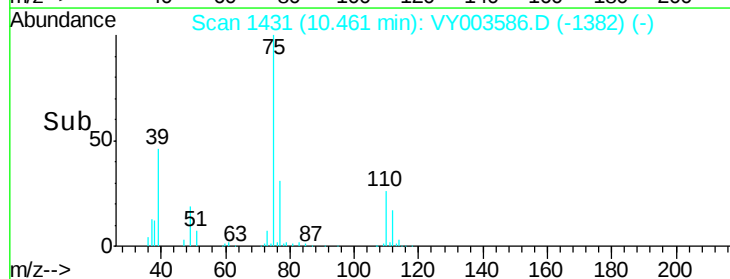
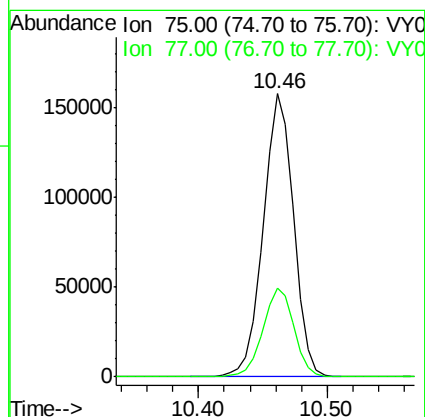
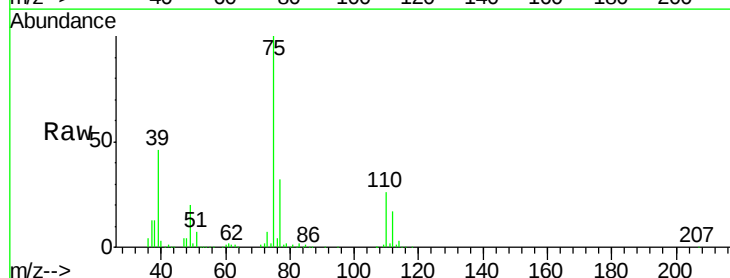
Acq: 23 Nov 2020 11:28

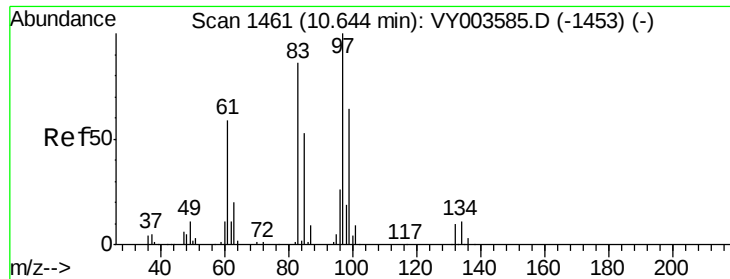
Tgt Ion: 75 Resp: 256974

Ion Ratio Lower Upper

75 100

77 31.5 22.9 42.5

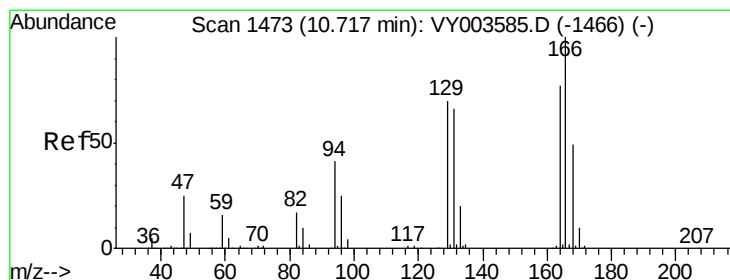
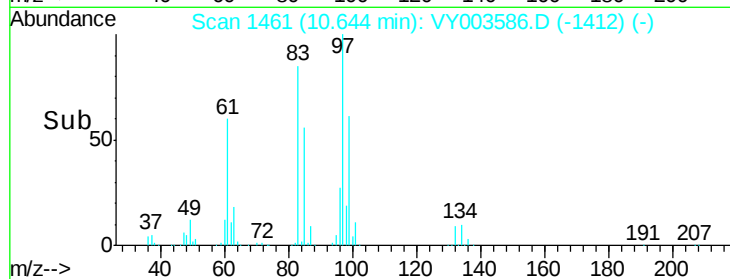
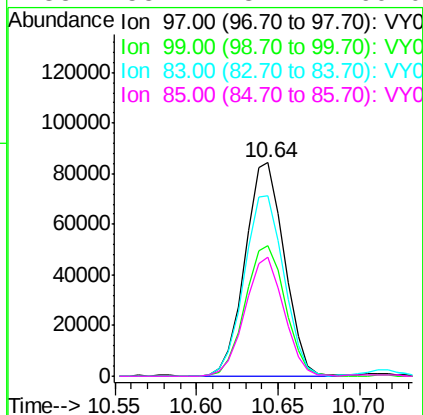
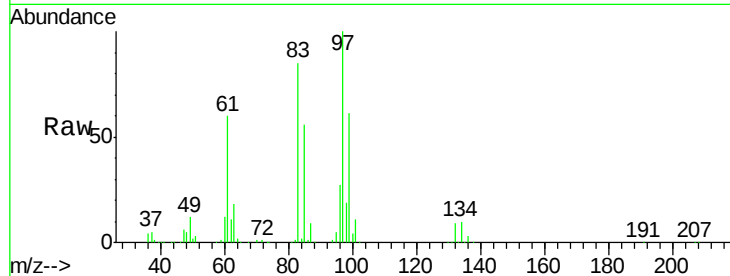




#45  
 1,1,2-Trichloroethane  
 Concen: 54.386 ug/L  
 RT: 10.64 min Scan# 1461  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

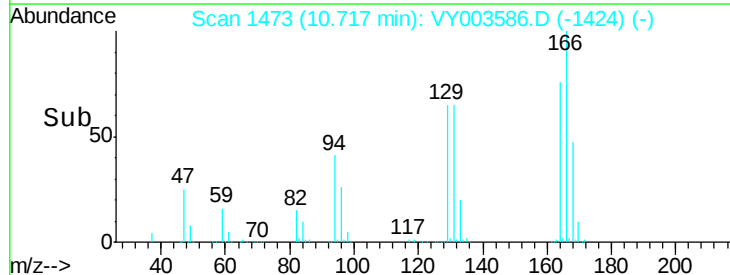
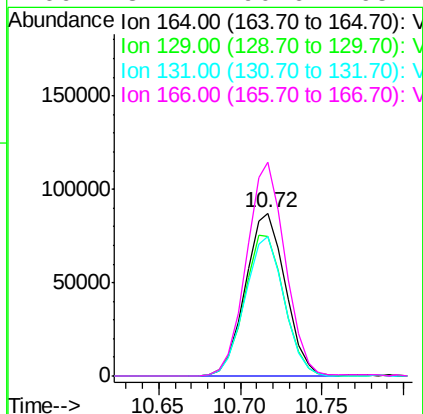
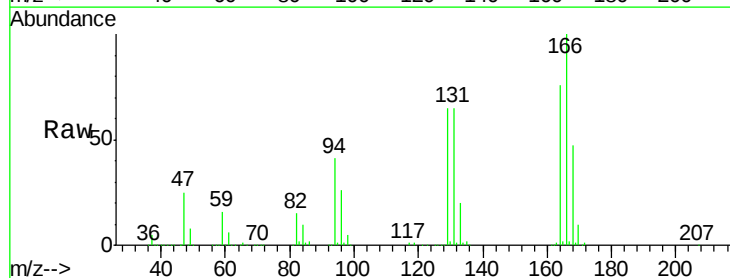
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

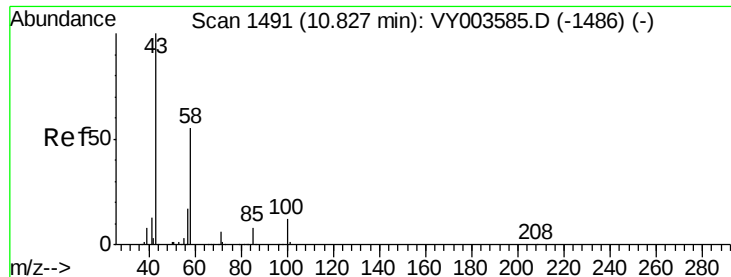
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 142168 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 60.9  | 44.9  | 83.5   |
| 83       | 84.6  | 59.8  | 111.1  |
| 85       | 55.7  | 37.2  | 69.0   |



#46  
 Tetrachloroethene  
 Concen: 47.760 ug/L  
 RT: 10.72 min Scan# 1473  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 148025 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 85.7  | 63.5  | 117.9  |
| 131      | 85.8  | 59.6  | 110.6  |
| 166      | 131.4 | 90.6  | 168.2  |

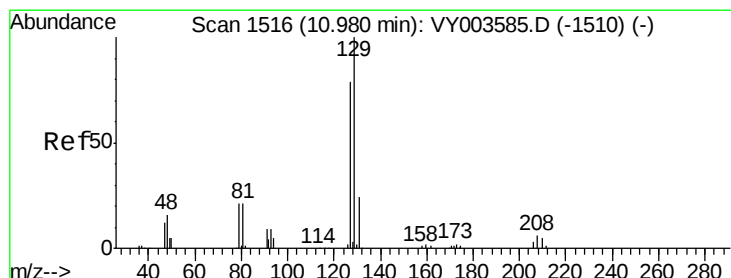
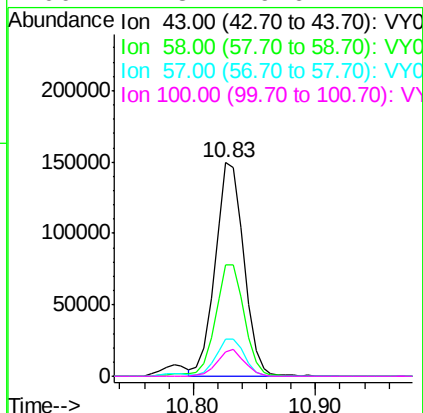
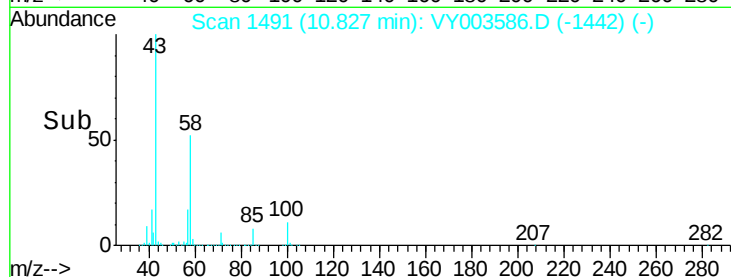
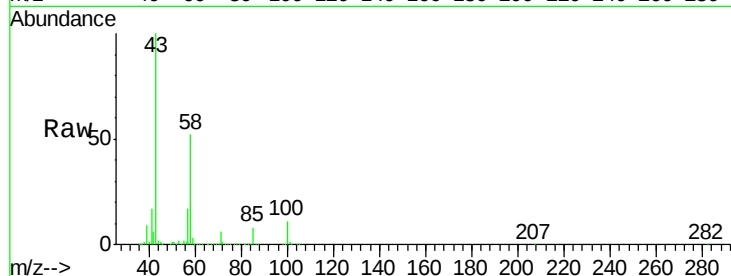




#48  
2-Hexanone  
Concen: 125.947 ug/L  
RT: 10.83 min Scan# 1491  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

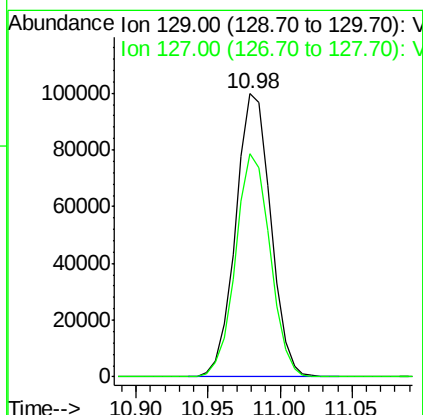
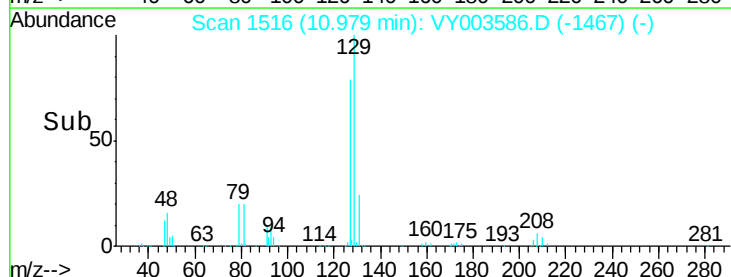
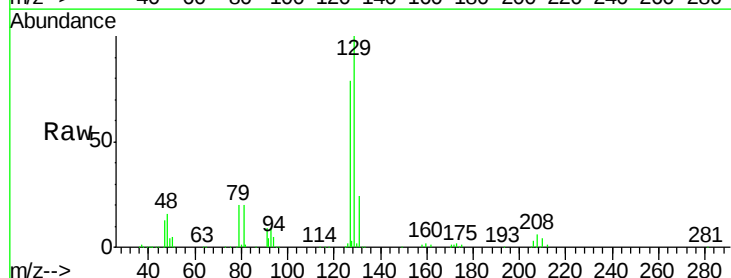
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD050405

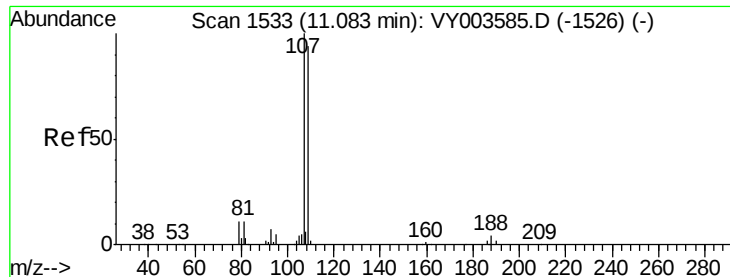
Tgt Ion: 43 Resp: 243253  
Ion Ratio Lower Upper  
43 100  
58 53.4 43.9 65.9  
57 17.3 14.1 21.1  
100 11.8 9.6 14.4



#49  
Dibromochloromethane  
Concen: 52.832 ug/L  
RT: 10.98 min Scan# 1516  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

Tgt Ion: 129 Resp: 169089  
Ion Ratio Lower Upper  
129 100  
127 78.9 55.7 103.5

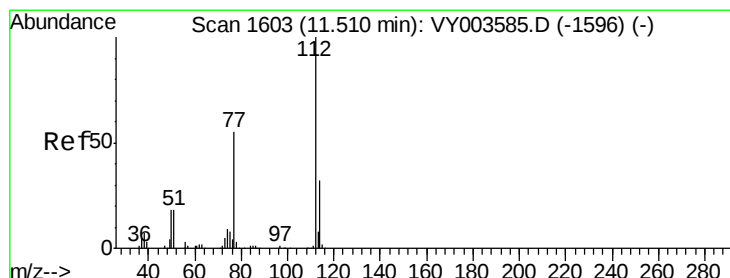
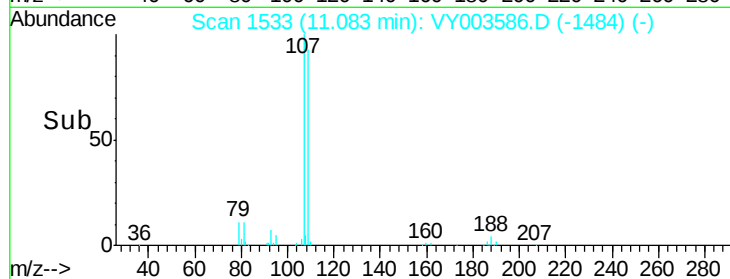
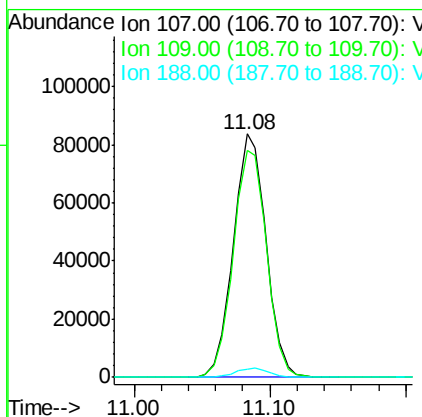
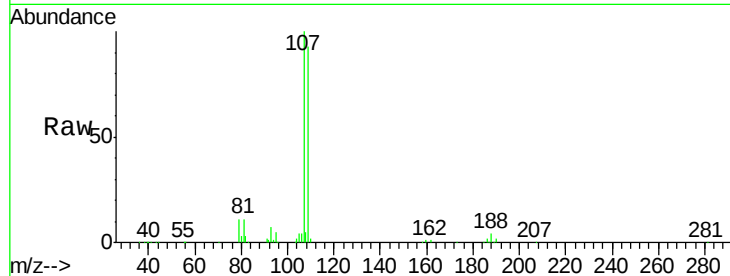




#50  
 1,2-Dibromoethane  
 Concen: 55.986 ug/L  
 RT: 11.08 min Scan# 1533  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

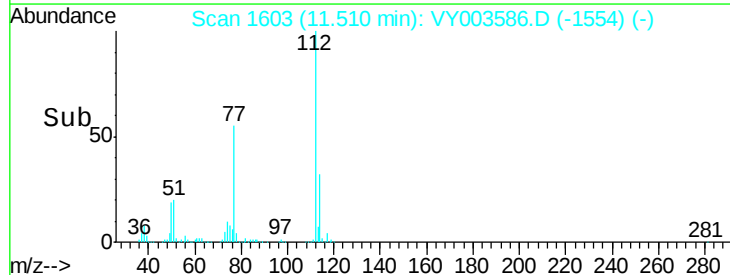
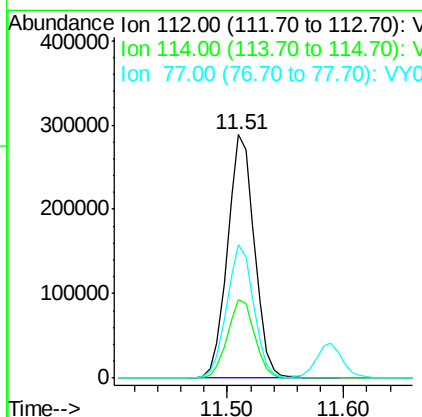
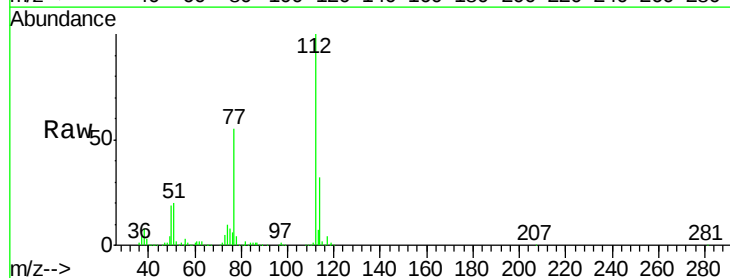
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 VSTD050405

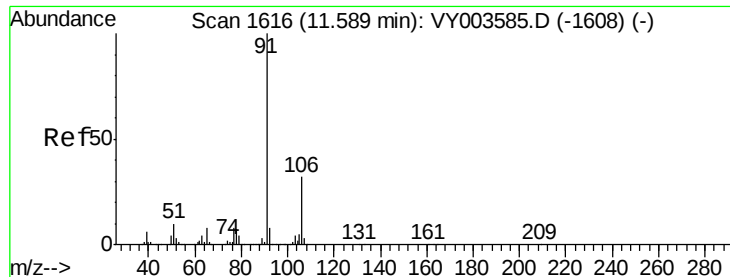
Tgt Ion:107 Resp: 140503  
 Ion Ratio Lower Upper  
 107 100  
 109 93.3 65.8 122.2  
 188 3.6 2.9 4.3



#51  
 Chlorobenzene  
 Concen: 50.313 ug/L  
 RT: 11.51 min Scan# 1603  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

Tgt Ion:112 Resp: 462924  
 Ion Ratio Lower Upper  
 112 100  
 114 32.3 22.4 41.6  
 77 54.8 44.2 66.2





#52

Ethylbenzene

Concen: 49.657 ug/L

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

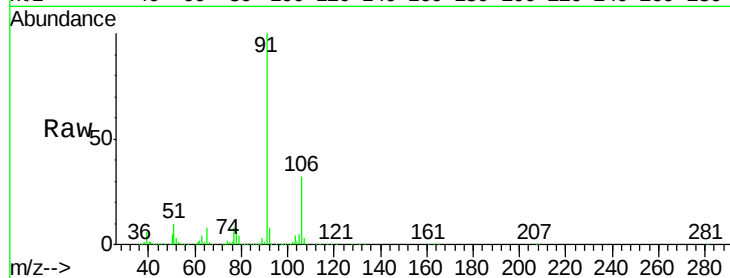
VSTD050405

Tgt Ion: 91 Resp: 769453

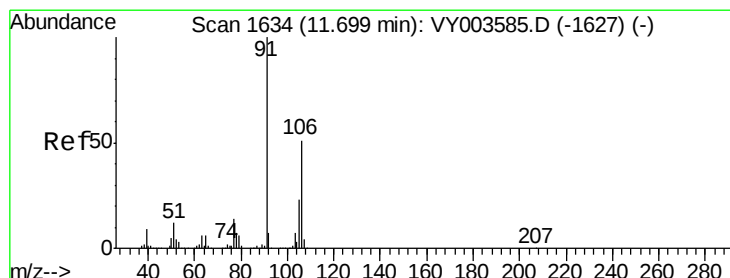
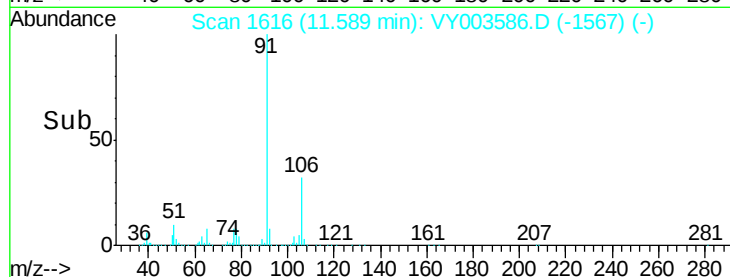
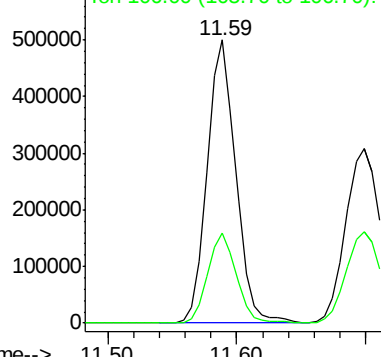
Ion Ratio Lower Upper

91 100

106 31.7 22.7 42.1



Abundance Ion 91.00 (90.70 to 91.70): VY003585.D (-1608) (-)



#53

m,p-Xylene

Concen: 50.633 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY003586.D

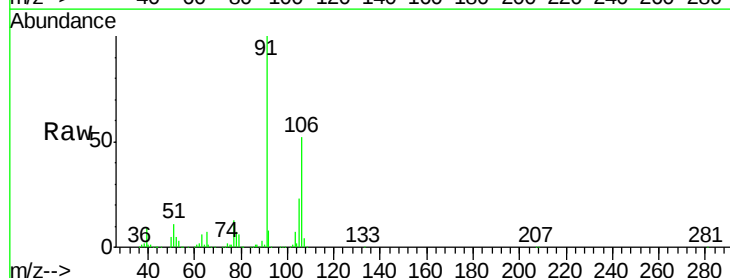
Acq: 23 Nov 2020 11:28

Tgt Ion: 106 Resp: 300004

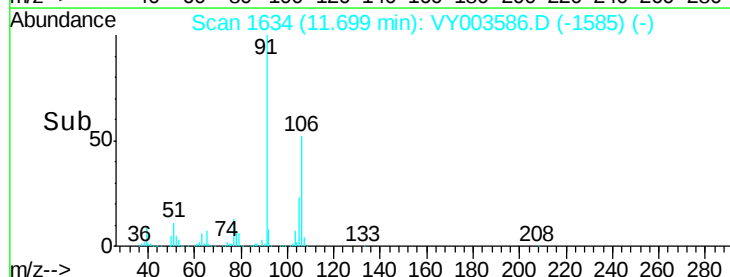
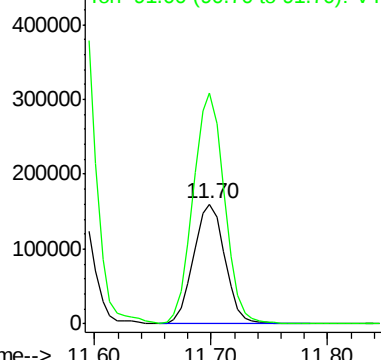
Ion Ratio Lower Upper

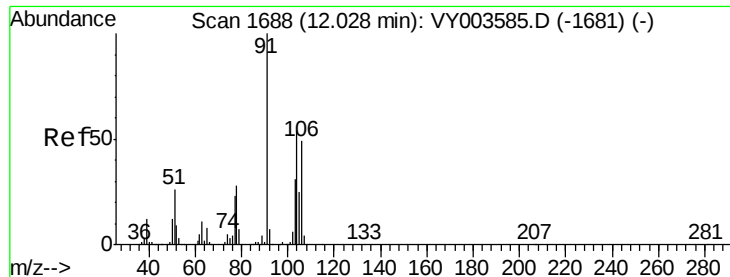
106 100

91 192.5 138.2 256.6



Abundance Ion 106.00 (105.70 to 106.70): VY003585.D (-1627) (-)

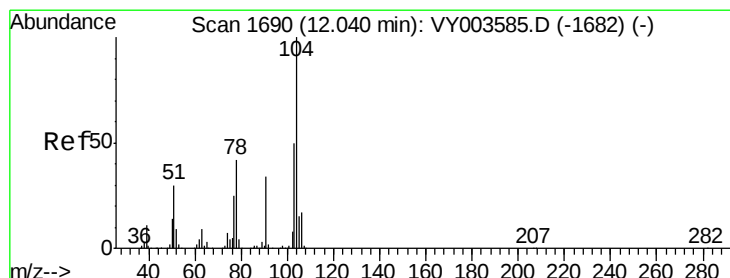
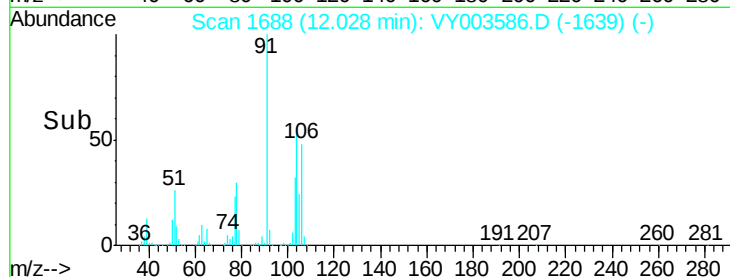
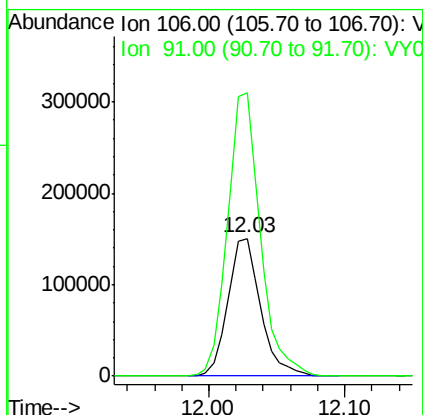
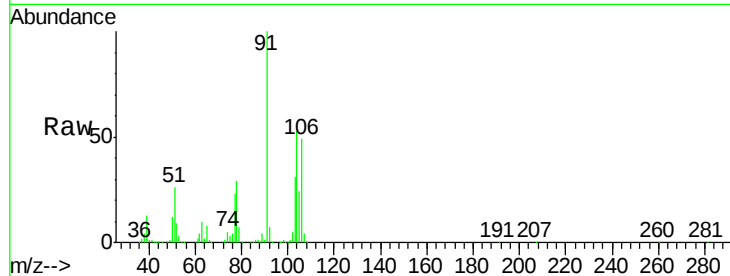




#54  
o-Xylene  
Concen: 44.834 ug/L  
RT: 12.03 min Scan# 1688  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

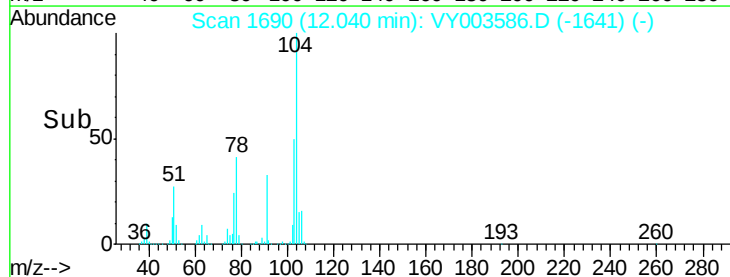
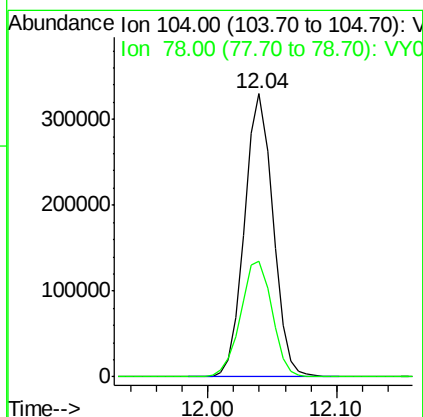
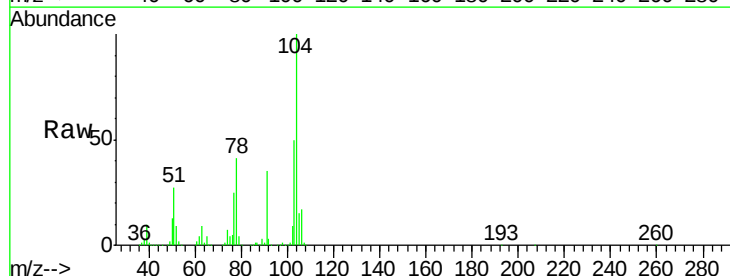
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD050405

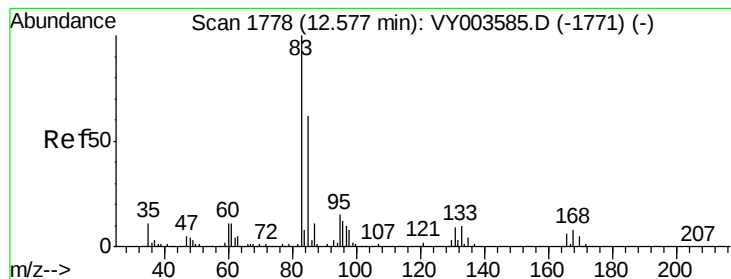
Tgt Ion:106 Resp: 251537  
Ion Ratio Lower Upper  
106 100  
91 205.8 143.2 266.0



#55  
Styrene  
Concen: 51.111 ug/L  
RT: 12.04 min Scan# 1690  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

Tgt Ion:104 Resp: 503978  
Ion Ratio Lower Upper  
104 100  
78 40.7 29.5 54.7





#57

1,1,2,2-Tetrachloroethane

Concen: 56.596 ug/L

RT: 12.58 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

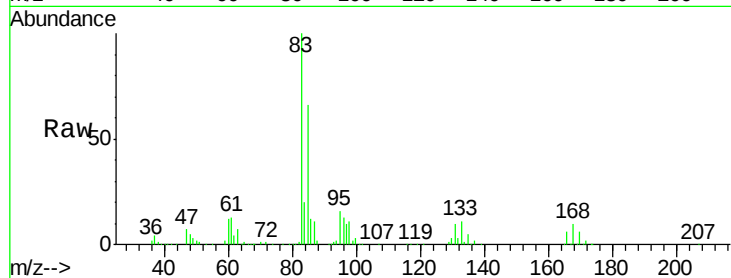
Tgt Ion: 83 Resp: 175121

Ion Ratio Lower Upper

83 100

85 66.3 43.5 80.9

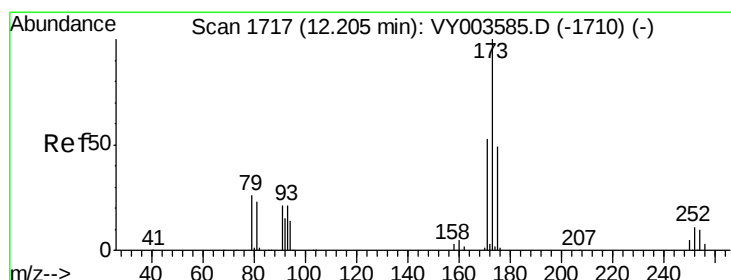
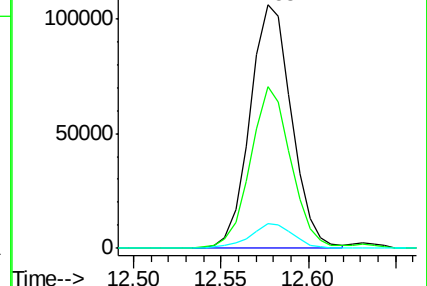
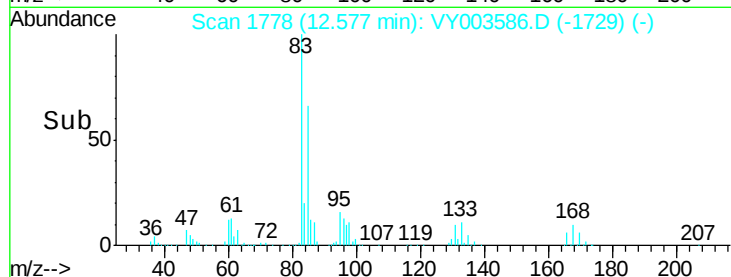
131 10.0 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 131.00 (130.70 to 131.70): V



#59

Bromoform

Concen: 53.909 ug/L

RT: 12.20 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

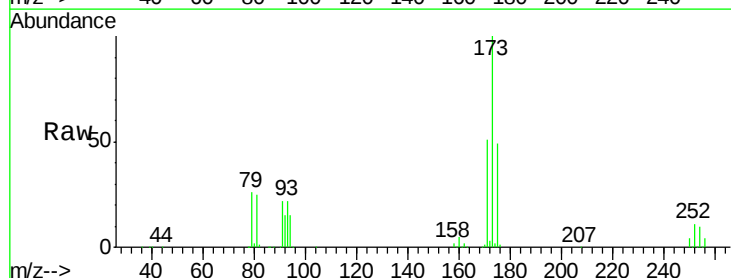
Tgt Ion: 173 Resp: 116536

Ion Ratio Lower Upper

173 100

175 48.3 38.9 58.3

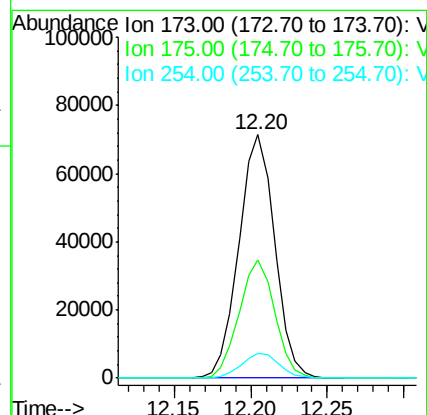
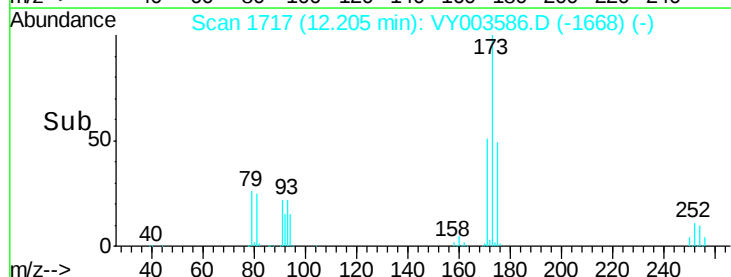
254 10.6 8.5 12.7

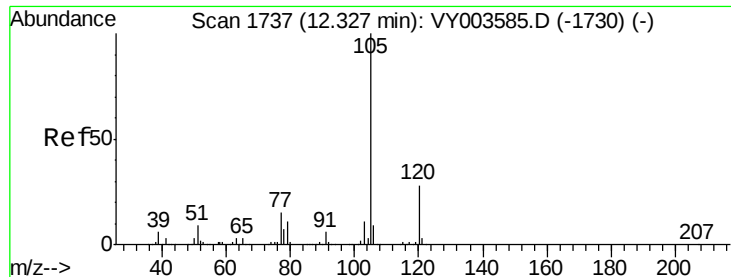


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#60

Isopropylbenzene

Concen: 39.154 ug/L

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

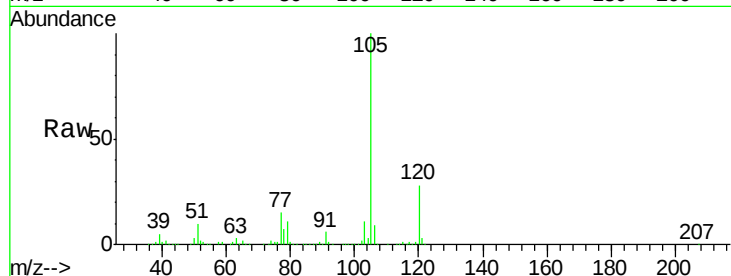
Tgt Ion: 105 Resp: 555902

Ion Ratio Lower Upper

105 100

120 27.6 21.8 32.6

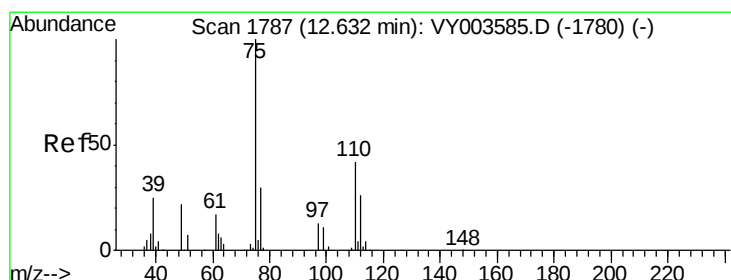
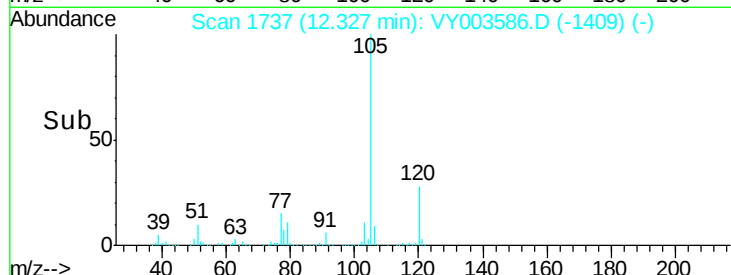
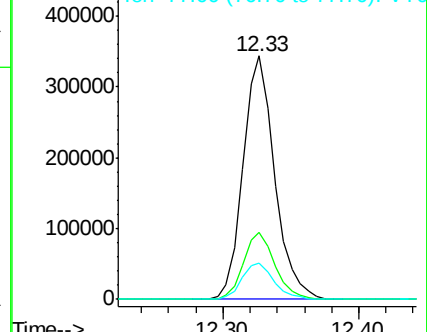
77 15.2 12.0 18.0



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: 54.084 ug/L

RT: 12.63 min Scan# 1787

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

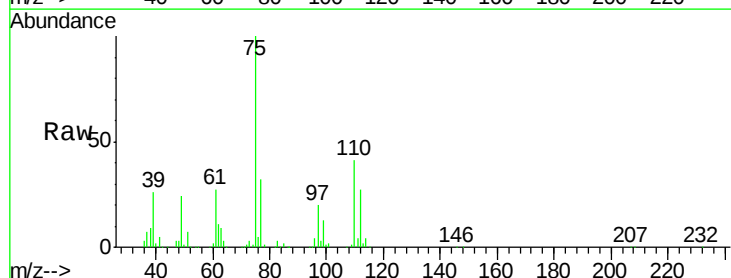
Tgt Ion: 75 Resp: 128323

Ion Ratio Lower Upper

75 100

77 32.4 26.1 39.1

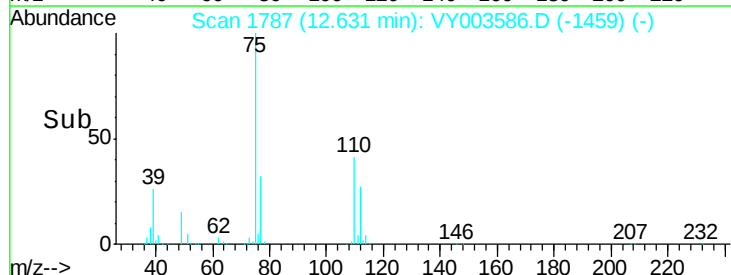
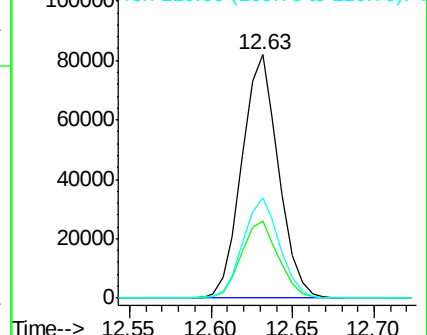
110 41.2 33.4 50.0

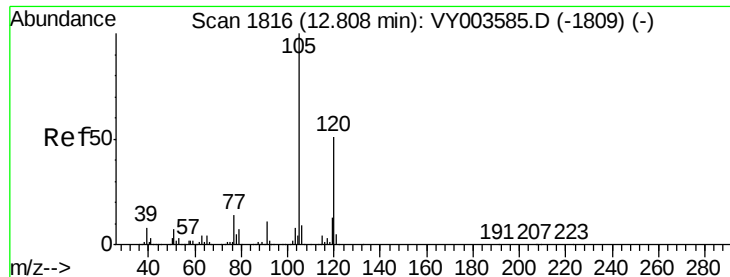


Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 36.281 ug/L

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

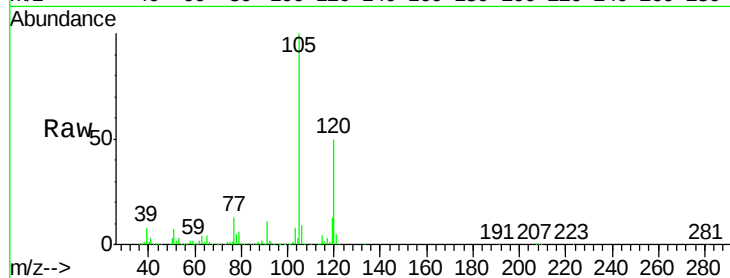
VSTD050405

Tgt Ion:105 Resp: 417983

Ion Ratio Lower Upper

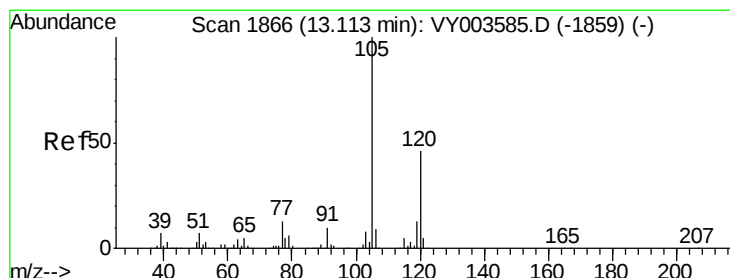
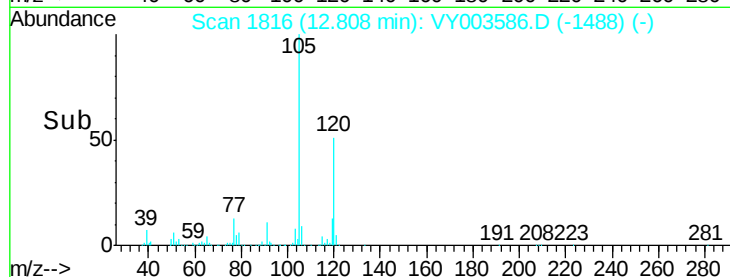
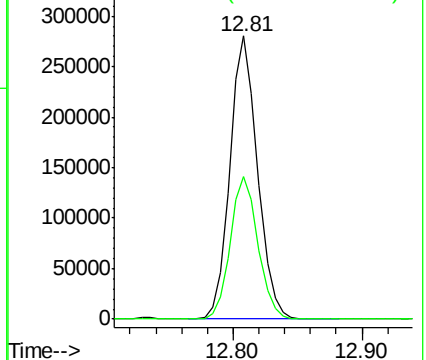
105 100

120 50.7 41.8 62.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 40.854 ug/L

RT: 13.11 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VY003586.D

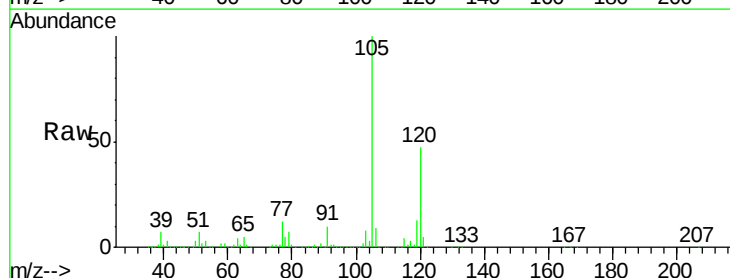
Acq: 23 Nov 2020 11:28

Tgt Ion:105 Resp: 451193

Ion Ratio Lower Upper

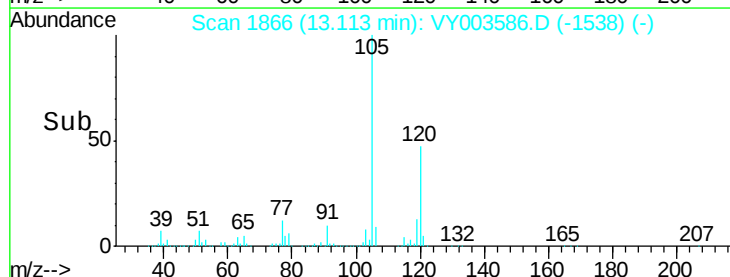
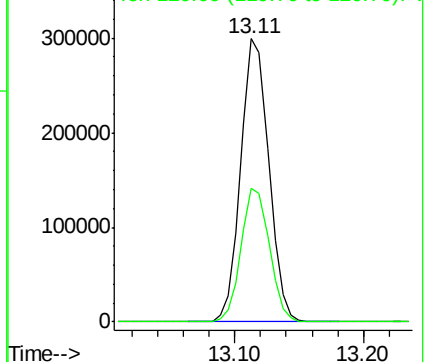
105 100

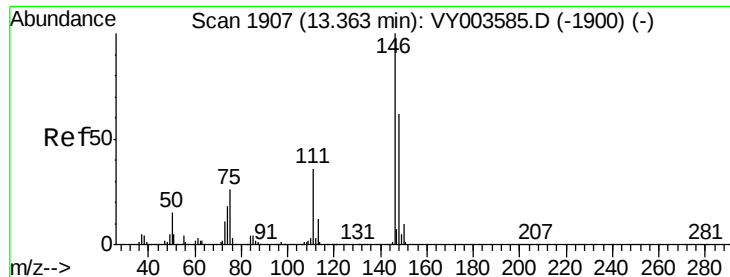
120 47.6 38.2 57.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

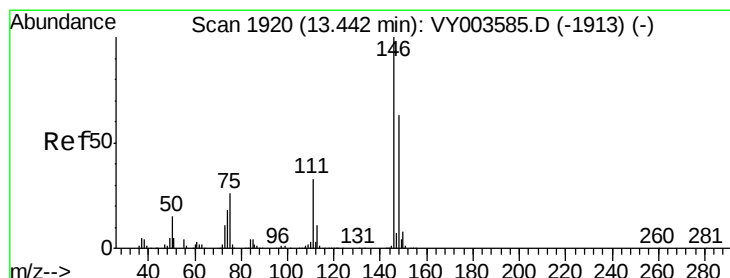
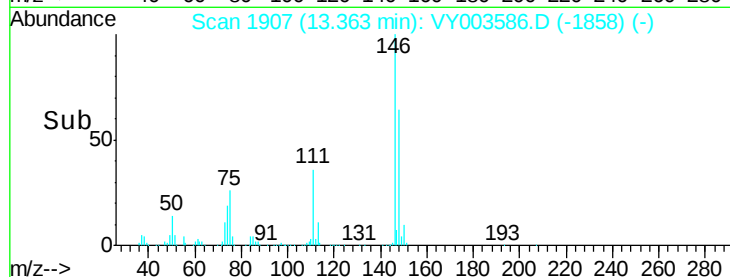
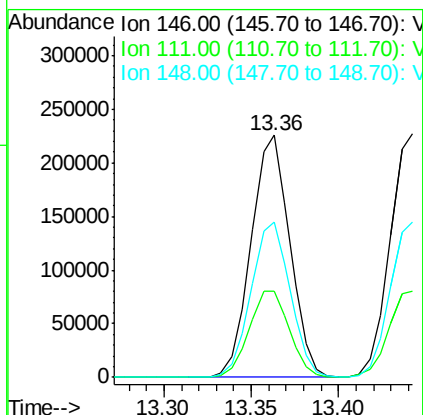
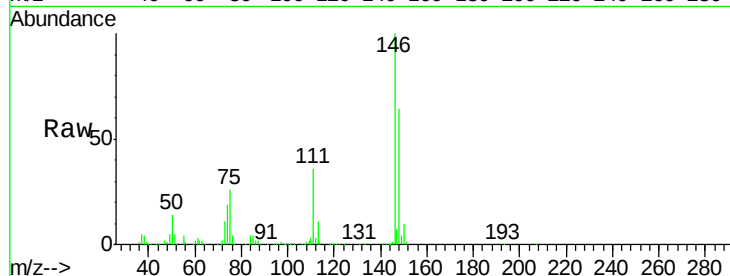




#64  
 1,3-Dichlorobenzene  
 Concen: 48.040 ug/L  
 RT: 13.36 min Scan# 1907  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

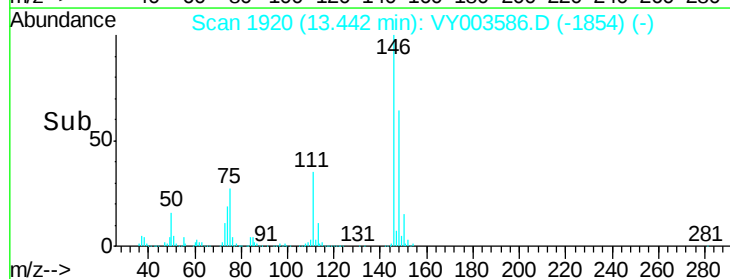
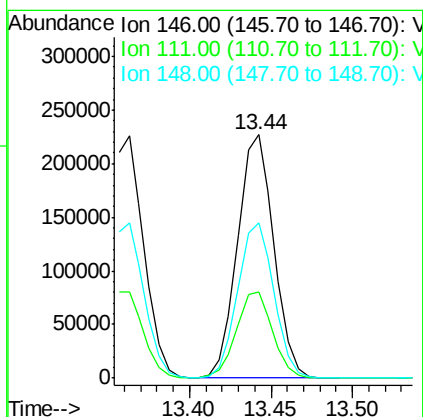
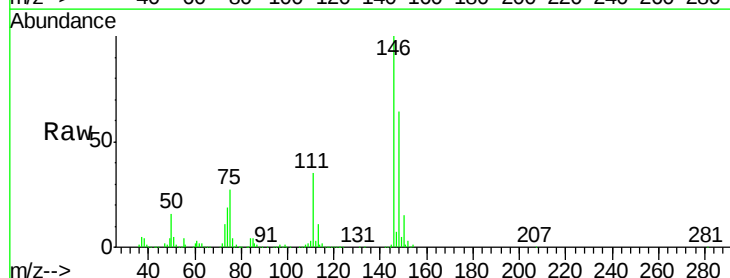
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

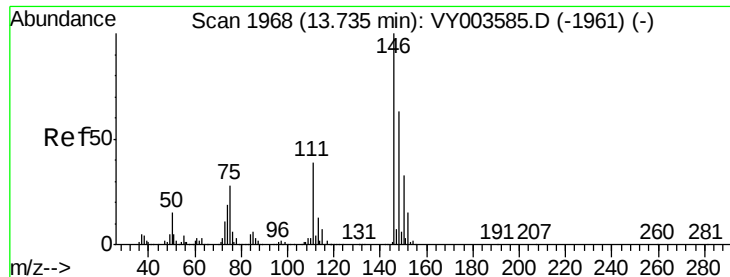
Tgt Ion:146 Resp: 347808  
 Ion Ratio Lower Upper  
 146 100  
 111 35.7 25.5 47.3  
 148 63.9 43.3 80.5



#65  
 1,4-Dichlorobenzene  
 Concen: 47.974 ug/L  
 RT: 13.44 min Scan# 1920  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

Tgt Ion:146 Resp: 352011  
 Ion Ratio Lower Upper  
 146 100  
 111 35.5 23.4 43.6  
 148 64.0 44.2 82.2

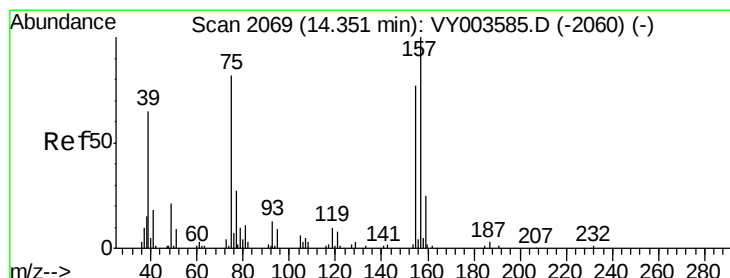
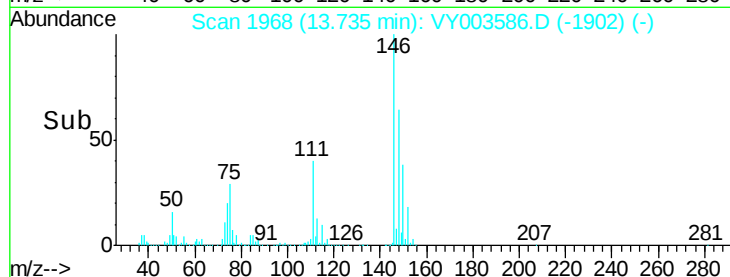
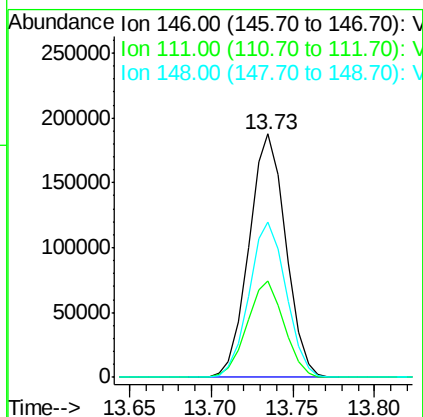
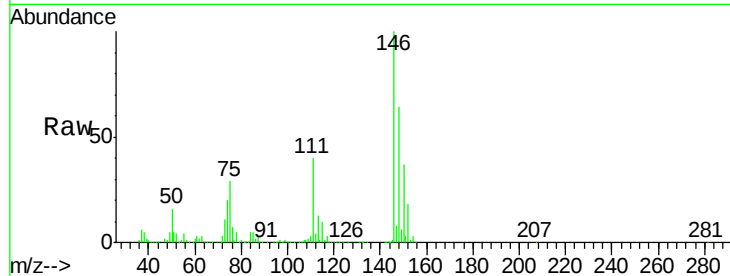




#67  
 1,2-Dichlorobenzene  
 Concen: 45.110 ug/L  
 RT: 13.73 min Scan# 1968  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

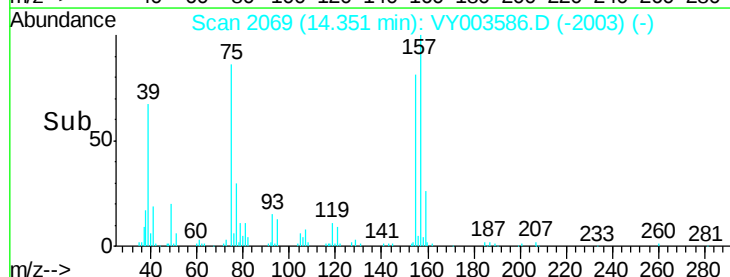
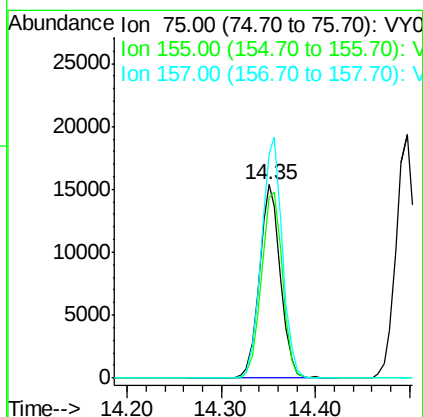
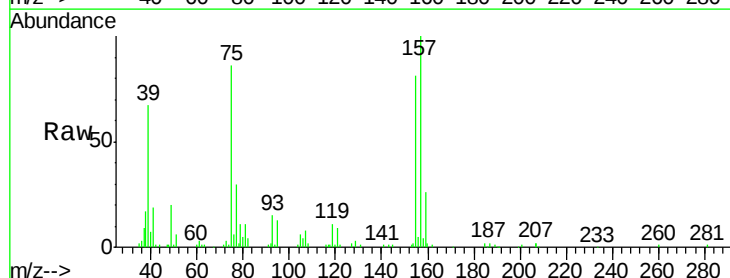
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD050405

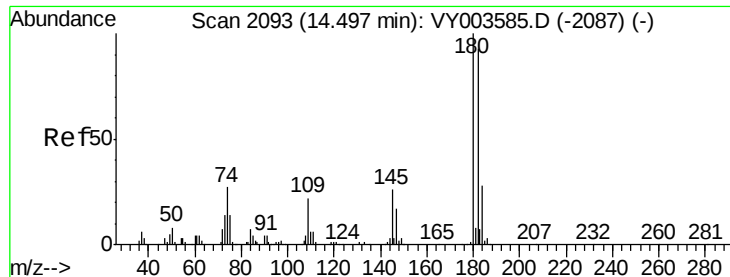
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 31.4  | 47.2  |
| 148     | 63.9  | 50.2  | 75.4  |



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 43.683 ug/L  
 RT: 14.35 min Scan# 2069  
 Delta R.T. -0.00 min  
 Lab File: VY003586.D  
 Acq: 23 Nov 2020 11:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 93.1  | 74.5  | 111.7 |
| 157     | 115.7 | 97.0  | 145.6 |





#69

1,3,5-Trichlorobenzene

Concen: 36.544 ug/L

RT: 14.50 min Scan# 2093

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD050405

Tgt Ion:180 Resp: 188668

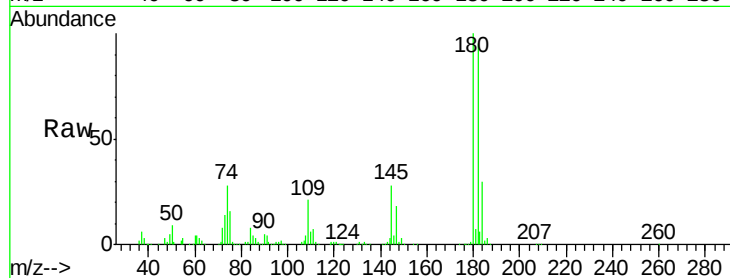
Ion Ratio Lower Upper

180 100

182 94.8 76.6 115.0

184 30.7 23.5 35.3

145 27.7 21.5 32.3

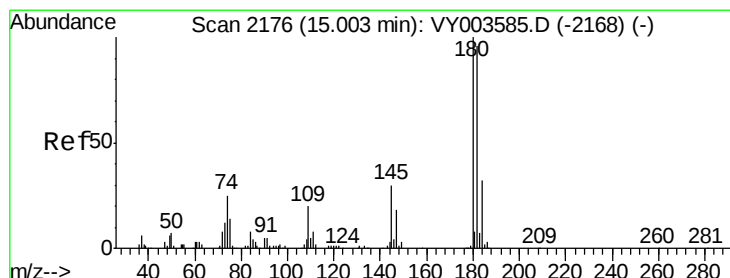
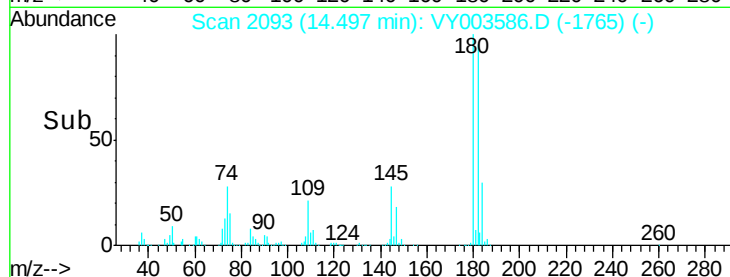
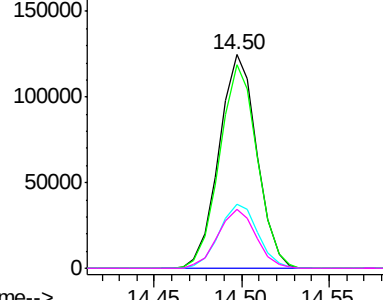


Abundance Ion 180.00 (179.70 to 180.70): V

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: 39.700 ug/L

RT: 15.00 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VY003586.D

Acq: 23 Nov 2020 11:28

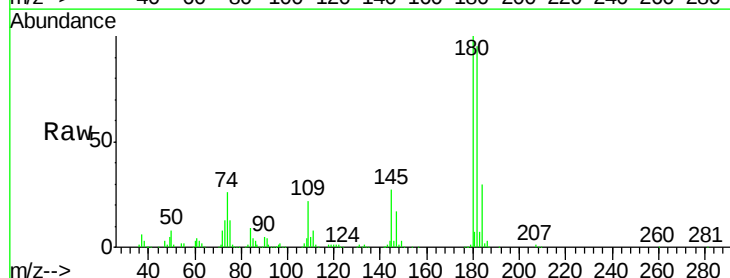
Tgt Ion:180 Resp: 171678

Ion Ratio Lower Upper

180 100

182 94.1 75.7 113.5

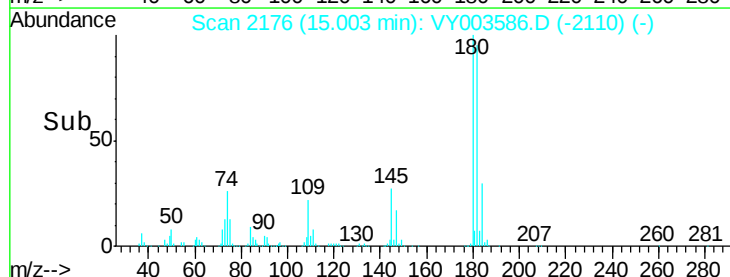
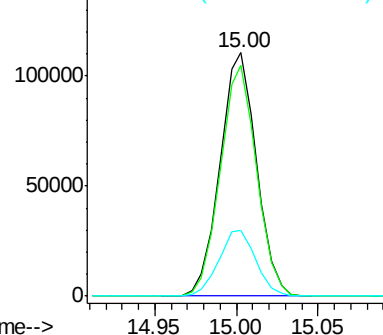
145 27.6 22.5 33.7

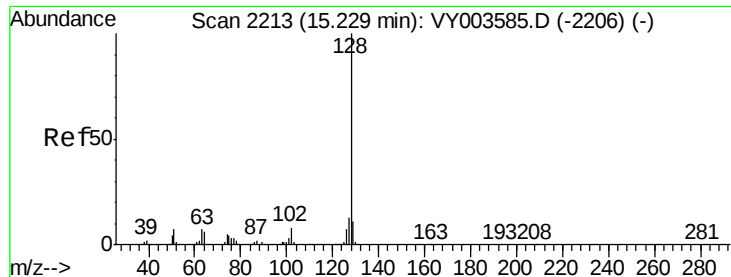


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

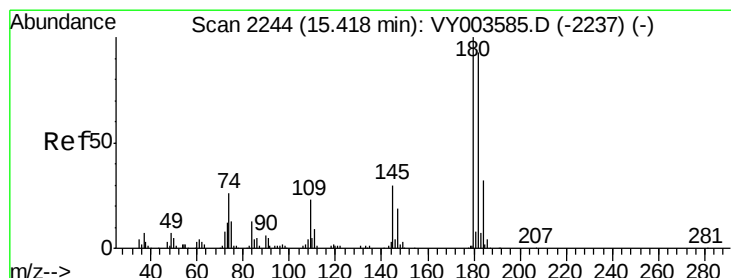
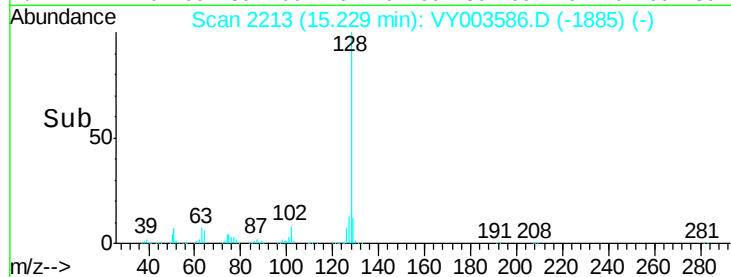
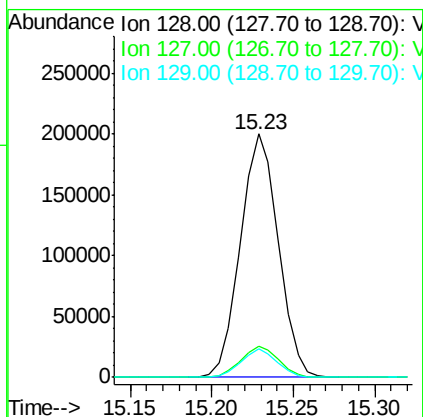
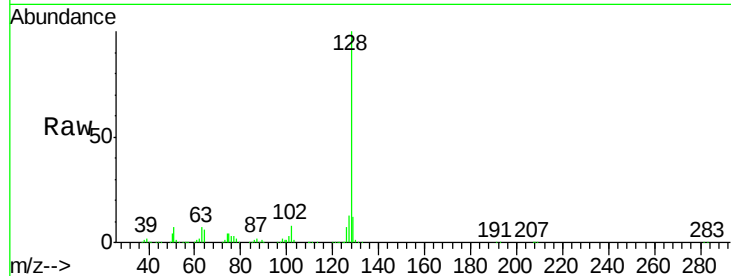




#71  
Naphthalene  
Concen: 41.580 ug/L  
RT: 15.23 min Scan# 2213  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD050405

Tgt Ion:128 Resp: 324413  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.6 15.8  
129 11.2 9.3 13.9



#72  
1,2,3-Trichlorobenzene  
Concen: 34.759 ug/L  
RT: 15.42 min Scan# 2244  
Delta R.T. -0.00 min  
Lab File: VY003586.D  
Acq: 23 Nov 2020 11:28

Tgt Ion:180 Resp: 127395  
Ion Ratio Lower Upper  
180 100  
182 96.1 75.0 112.4  
145 30.2 23.6 35.4

