

Data File : VW015190.D  
Acq On : 14 Apr 2020 13:05  
Operator : SY/VA  
Sample : VSTD100  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

Quant Time: Apr 14 13:50:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 14 12:51:04 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1033120  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 913109   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 407428   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 1065705 | 109.07 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 789802  | 110.25 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 2400655 | 92.78  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 603084  | 180.45 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 2300559 | 94.42  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 1134381 | 94.02  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 4813747 | 95.27  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 1468415 | 94.00  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 4561369 | 96.33  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 662450  | 92.95  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 532310  | 190.73 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 1082086 | 94.76  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 1374539 | 94.14  | ug/L | 0.00 |

Target Compounds

|                                |       |     |         |         |      | Qvalue |
|--------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 1134481 | 151.905 | ug/L | 96     |
| 3) Chloromethane               | 2.21  | 50  | 1410652 | 152.156 | ug/L | 98     |
| 5) Vinyl chloride              | 2.37  | 62  | 1469119 | 118.356 | ug/L | 100    |
| 6) Bromomethane                | 2.78  | 94  | 766361  | 119.373 | ug/L | 99     |
| 8) Chloroethane                | 2.93  | 64  | 723110  | 117.718 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 1153532 | 117.245 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 1407943 | 99.007  | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 1397032 | 99.444  | ug/L | 96     |
| 13) Acetone                    | 4.12  | 43  | 383171  | 180.879 | ug/L | 91     |
| 14) Carbon disulfide           | 4.38  | 76  | 4441666 | 95.385  | ug/L | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 523320  | 102.902 | ug/L | 97     |
| 16) Methylene chloride         | 4.92  | 84  | 1335346 | 91.165  | ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 1754623 | 93.117  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 1412606 | 99.173  | ug/L | 96     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 2437637 | 99.345  | ug/L | 99     |
| 21) 2-Butanone                 | 7.17  | 43  | 682165  | 197.502 | ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 1484922 | 100.368 | ug/L | 98     |
| 23) Bromochloromethane         | 7.51  | 128 | 612512  | 100.791 | ug/L | 97     |
| 25) Chloroform                 | 7.67  | 83  | 2360561 | 98.965  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 1406518 | 96.928  | ug/L | 99     |
| 30) Cyclohexane                | 7.96  | 56  | 2513151 | 98.941  | ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 2024183 | 97.878  | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 1865121 | 98.587  | ug/L | 99     |
| 34) Benzene                    | 8.32  | 78  | 5591263 | 98.460  | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 1475027 | 98.336  | ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 2667951 | 97.937  | ug/L | 100    |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 1386241 | 100.054 | ug/L | 100    |
| 41) Bromodichloromethane       | 9.64  | 83  | 1785778 | 100.260 | ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 2251843 | 100.759 | ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 1600453 | 193.934 | ug/L | 100    |

Data File : VW015190.D  
Acq On : 14 Apr 2020 13:05  
Operator : SY/VA  
Sample : VSTD100  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

Quant Time: Apr 14 13:50:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 14 12:51:04 2020  
Response via : Initial Calibration

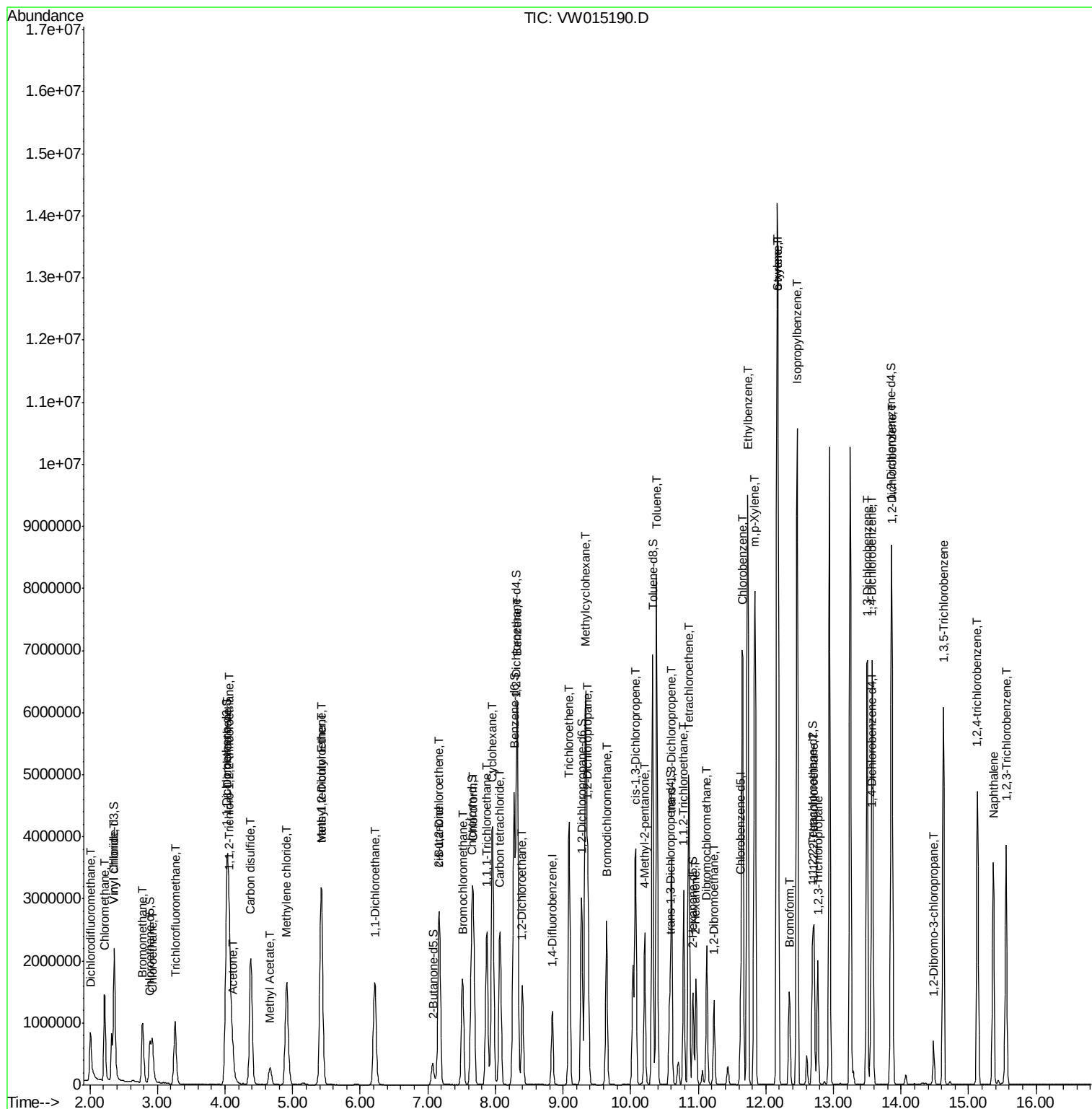
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 10.38 | 91   | 6062430  | 101.319 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 1918164  | 99.712  | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 973370   | 98.623  | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 1078511  | 100.409 | ug/L  | 95       |
| 49) 2-Hexanone                 | 10.96 | 43   | 1097580  | 201.826 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 1164574  | 100.817 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 927429   | 99.688  | ug/L  | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 3729558  | 101.466 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 6814390  | 101.263 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.83 | 106  | 2626265  | 101.760 | ug/L  | 98       |
| 55) o-xylene                   | 12.16 | 106  | 2506870  | 101.628 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 4259635  | 102.677 | ug/L  | 93       |
| 57) Isopropylbenzene           | 12.46 | 105  | 6722553  | 100.947 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 1139015  | 99.045  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 823127   | 96.863  | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 650457   | 99.713  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 2706444  | 100.496 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 2640029  | 100.923 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 2355833  | 98.504  | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 177469   | 89.602  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 1786944  | 96.372  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 1491882  | 100.813 | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 3056525  | 103.097 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 1263362  | 98.053  | ug/L  | 99       |

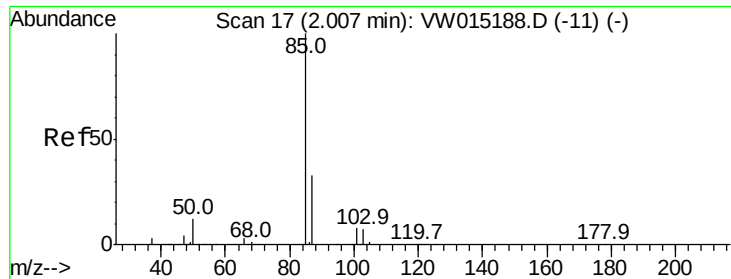
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW015190.D  
Acq On : 14 Apr 2020 13:05  
Operator : SY/VA  
Sample : VSTD100  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

Quant Time: Apr 14 13:50:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 14 12:51:04 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 151.905 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

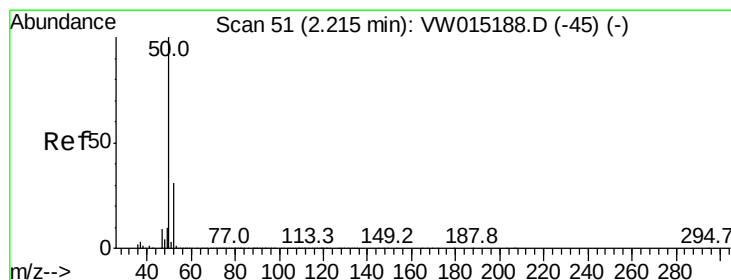
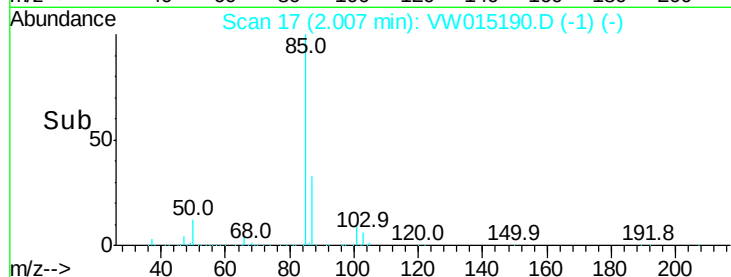
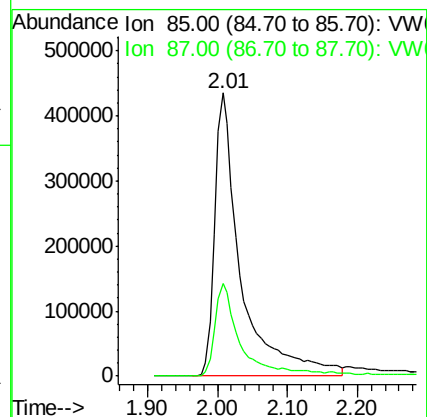
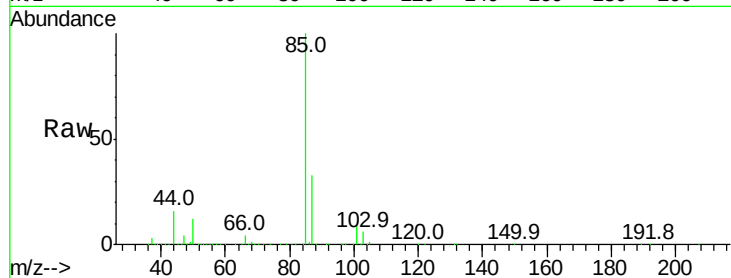
VSTD10003

Tgt Ion: 85 Resp: 1134481

Ion Ratio Lower Upper

85 100

87 30.7 23.3 43.3



#3

Chloromethane

Concen: 152.156 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015190.D

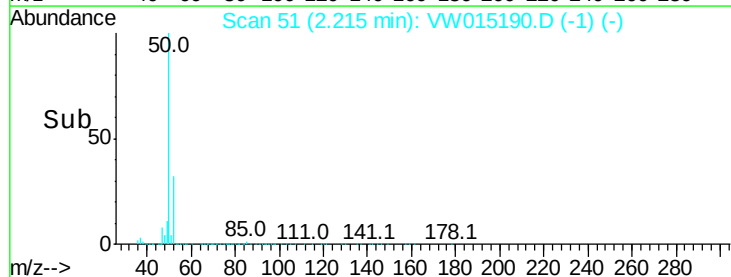
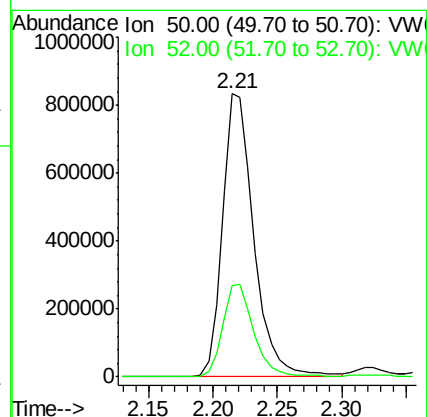
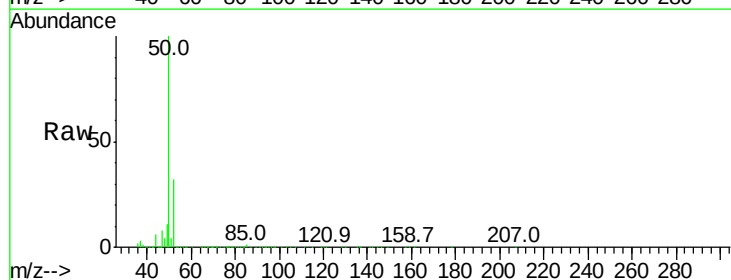
Acq: 14 Apr 2020 13:05

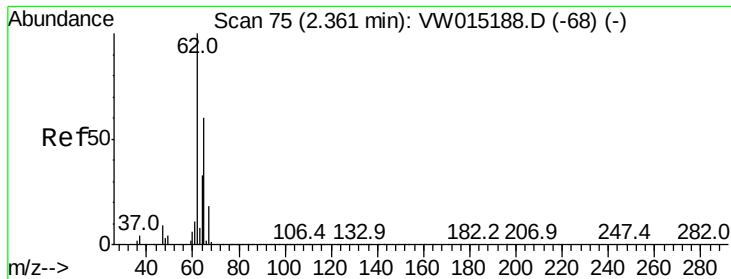
Tgt Ion: 50 Resp: 1410652

Ion Ratio Lower Upper

50 100

52 32.3 22.0 40.8





#5

Vinyl chloride

Concen: 118.356 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

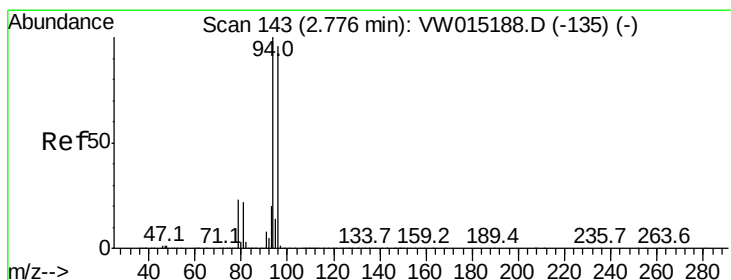
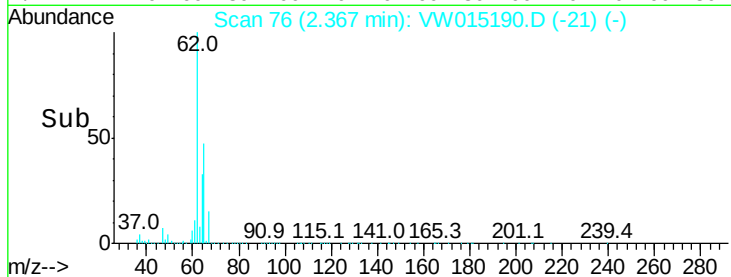
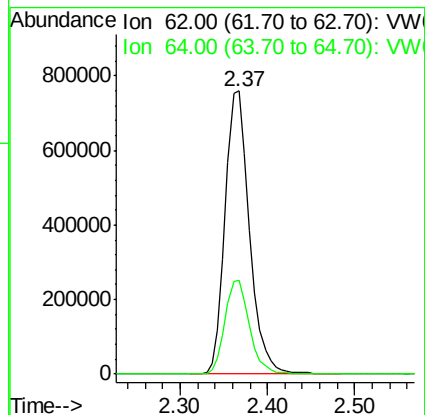
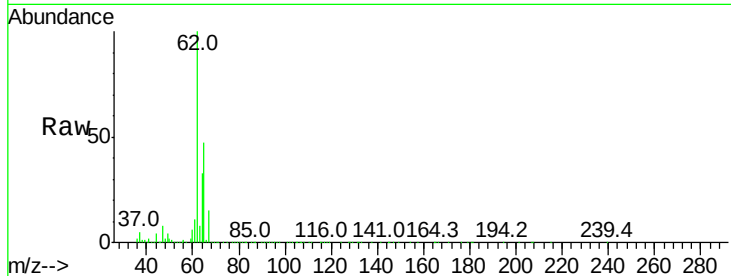
VSTD10003

Tgt Ion: 62 Resp: 1469119

Ion Ratio Lower Upper

62 100

64 33.1 23.2 43.0



#6

Bromomethane

Concen: 119.373 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015190.D

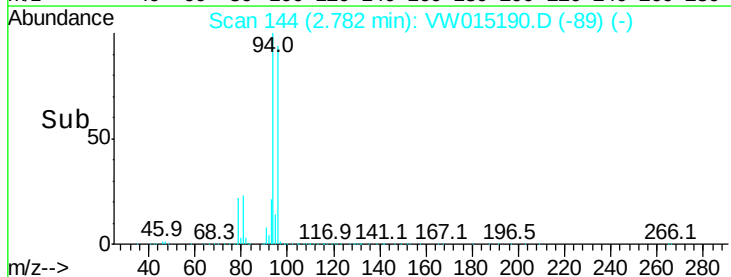
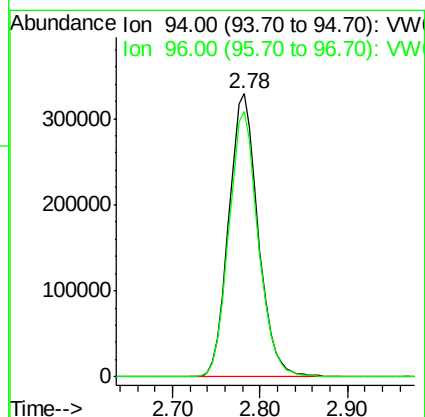
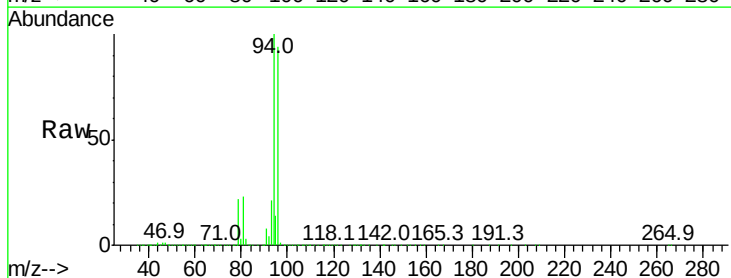
Acq: 14 Apr 2020 13:05

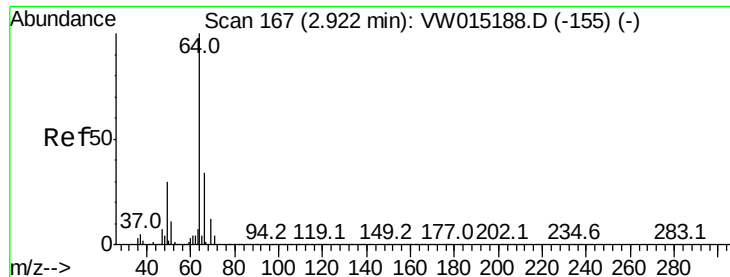
Tgt Ion: 94 Resp: 766361

Ion Ratio Lower Upper

94 100

96 93.9 9.3 176.5





#8

Chloroethane

Concen: 117.718 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

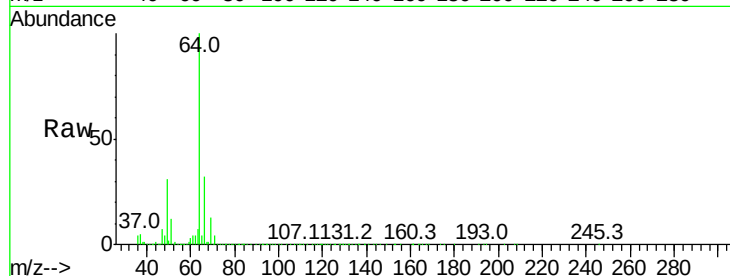
VSTD10003

Tgt Ion: 64 Resp: 723110

Ion Ratio Lower Upper

64 100

66 32.4 23.9 44.3



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.93

300000

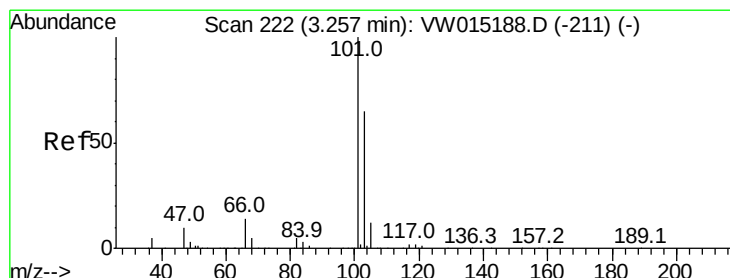
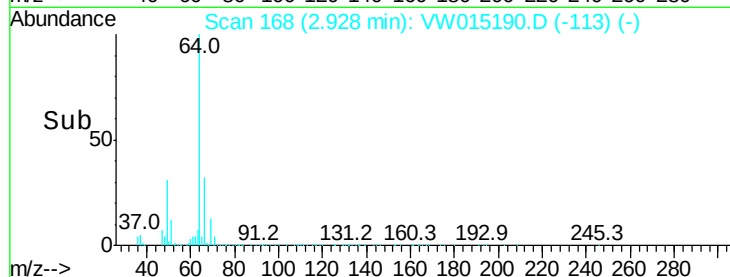
200000

100000

0

Time-->

2.80 2.90 3.00 3.10



#9

Trichlorofluoromethane

Concen: 117.245 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.01 min

Lab File: VW015190.D

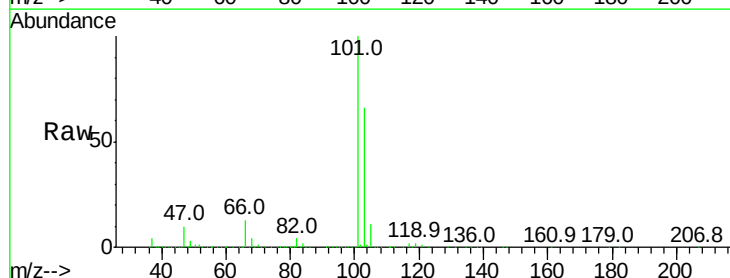
Acq: 14 Apr 2020 13:05

Tgt Ion: 101 Resp: 1153532

Ion Ratio Lower Upper

101 100

103 64.0 45.3 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.26

500000

400000

300000

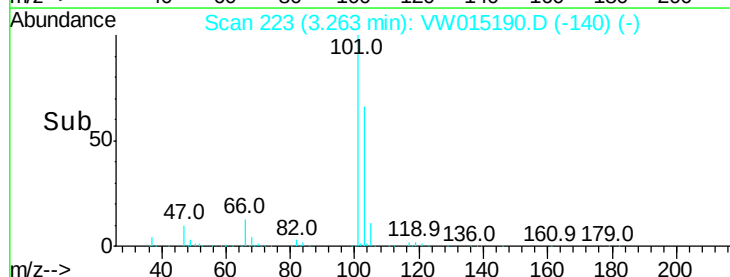
200000

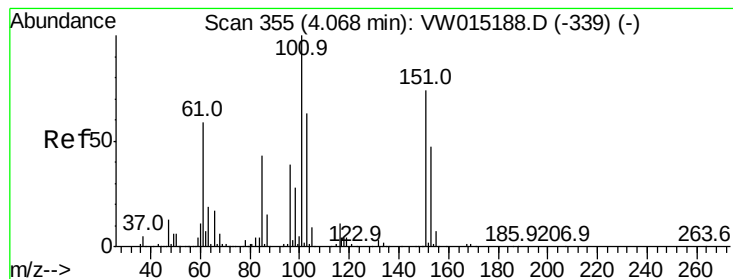
100000

0

Time-->

3.10 3.20 3.30 3.40





#11

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

Concen: 99.007 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10003

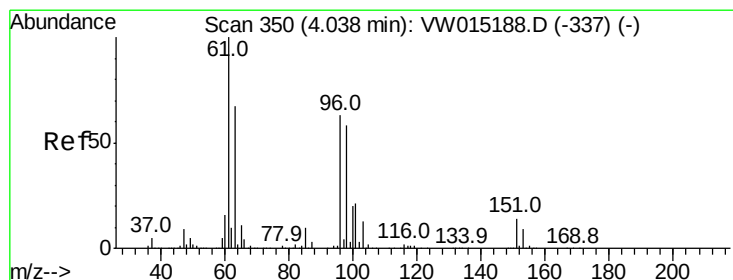
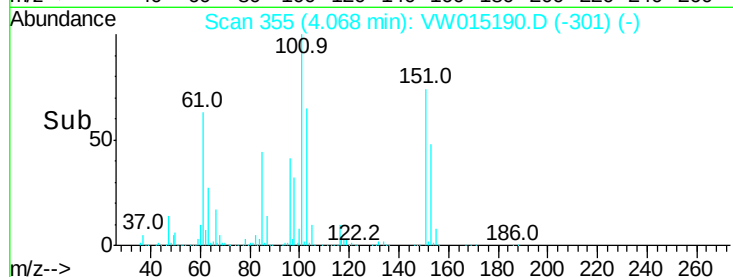
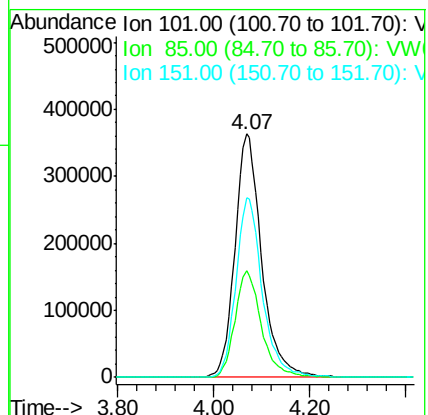
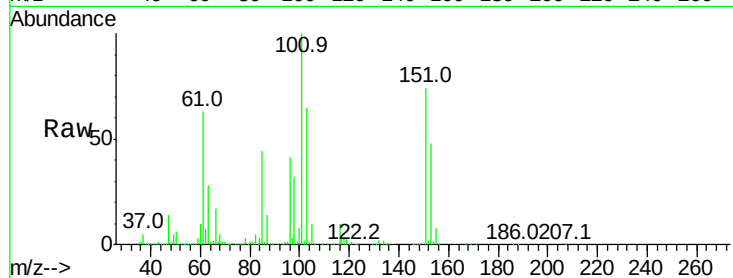
Tgt Ion:101 Resp: 1407943

Ion Ratio Lower Upper

101 100

85 42.9 33.5 50.3

151 72.5 59.1 88.7



#12

1,1-Dichloroethene

Concen: 99.444 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

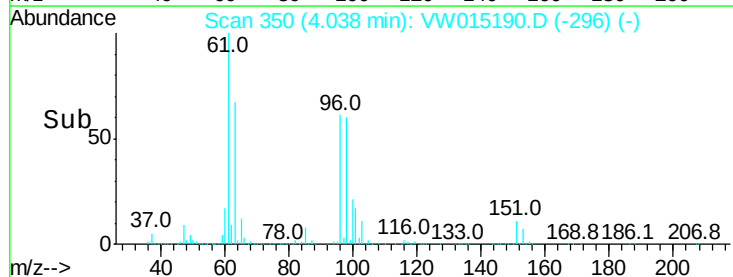
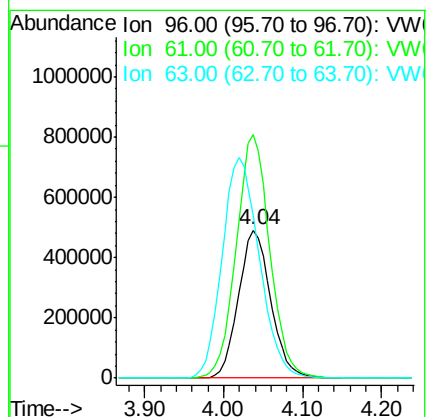
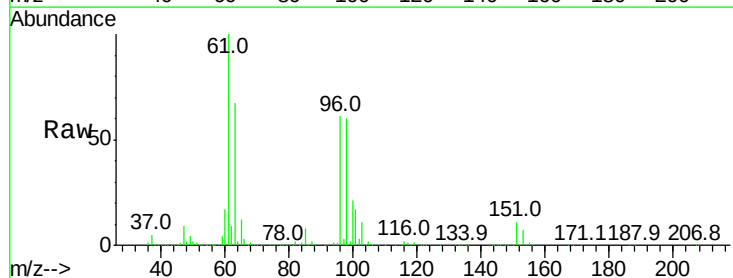
Tgt Ion: 96 Resp: 1397032

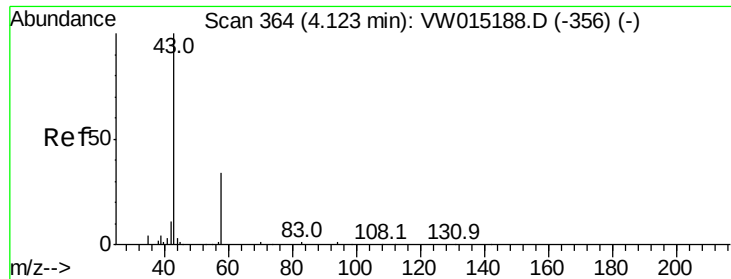
Ion Ratio Lower Upper

96 100

61 164.5 111.0 206.2

63 109.8 74.4 138.2





#13

Acetone

Concen: 180.879 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

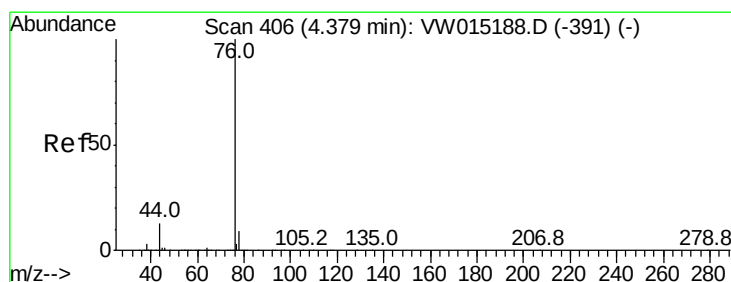
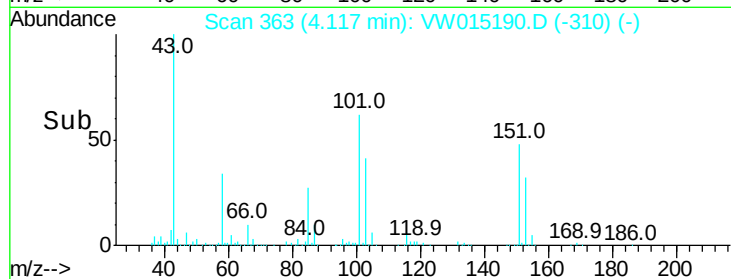
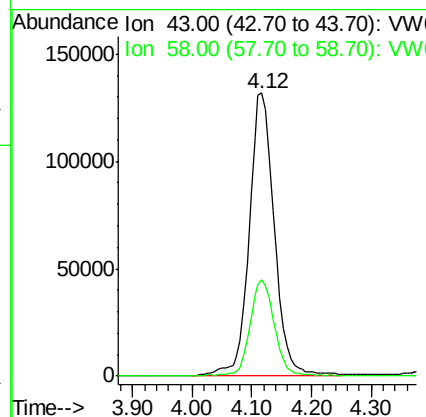
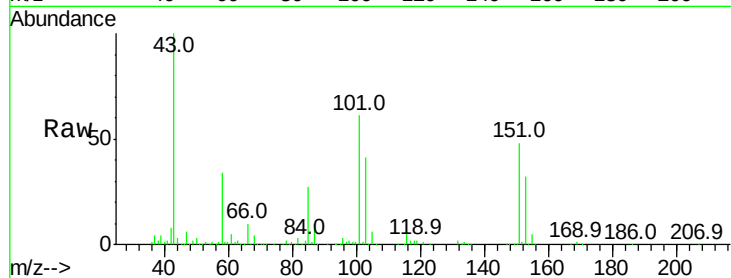
VSTD10003

Tgt Ion: 43 Resp: 383171

Ion Ratio Lower Upper

43 100

58 32.9 0.0 77.0



#14

Carbon disulfide

Concen: 95.385 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW015190.D

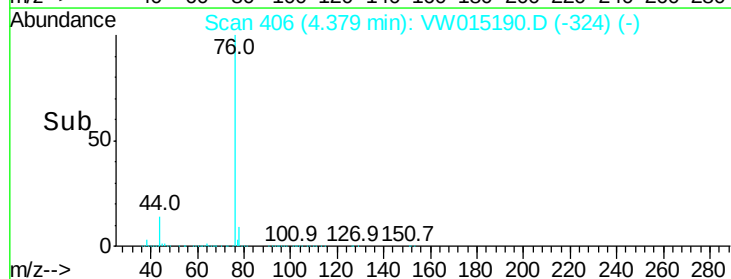
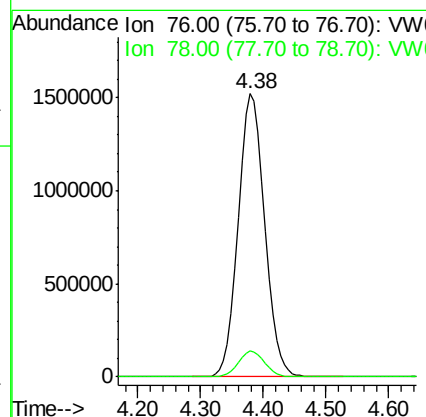
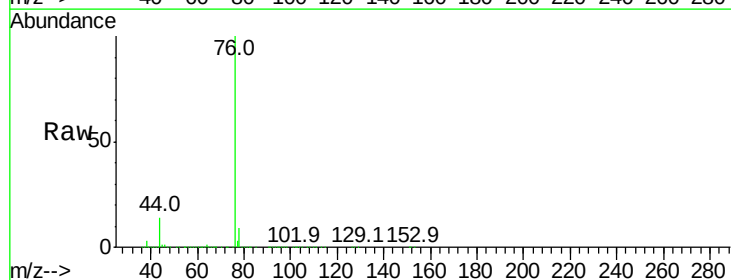
Acq: 14 Apr 2020 13:05

Tgt Ion: 76 Resp: 4441666

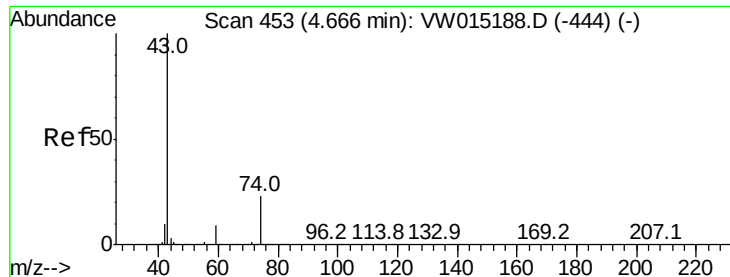
Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



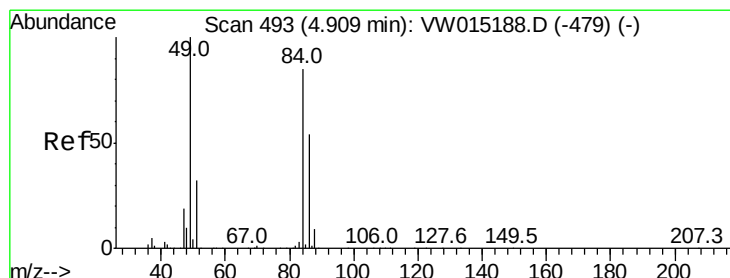
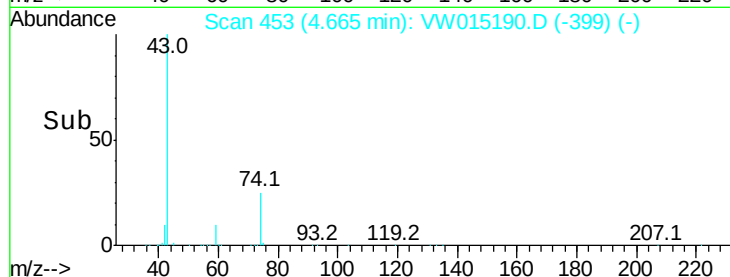
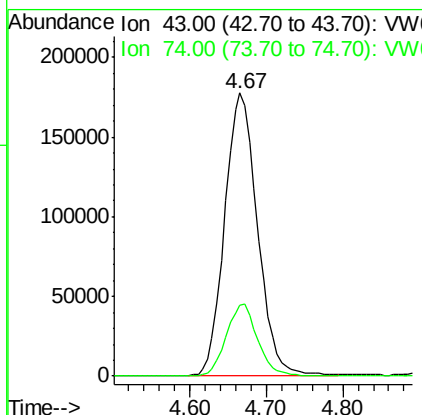
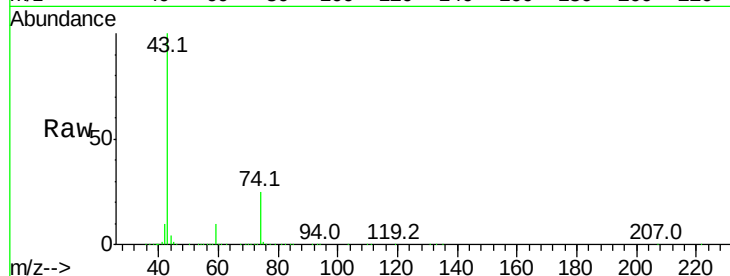




#15  
Methyl Acetate  
Concen: 102.902 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

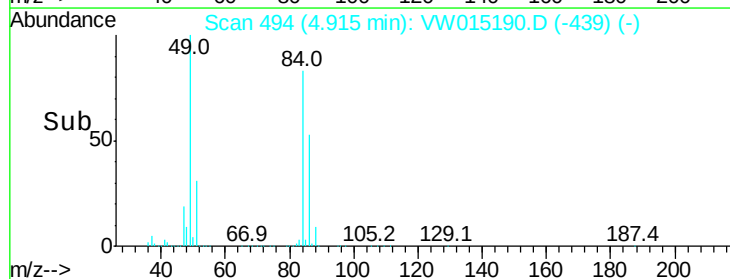
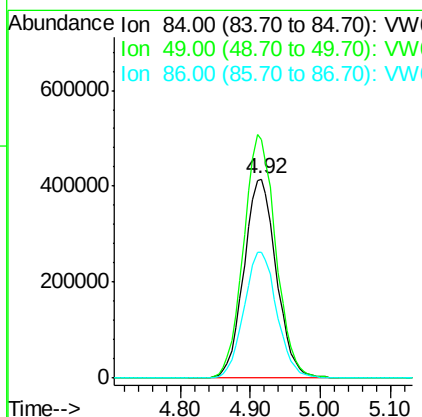
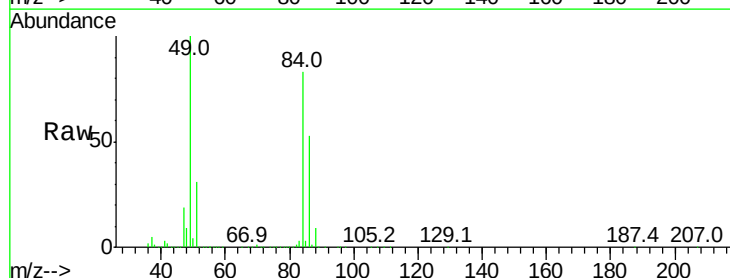
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

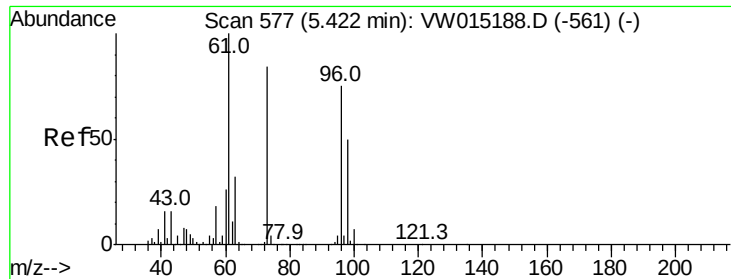
Tgt Ion: 43 Resp: 523320  
Ion Ratio Lower Upper  
43 100  
74 24.6 20.7 31.1



#16  
Methylene chloride  
Concen: 91.165 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

Tgt Ion: 84 Resp: 1335346  
Ion Ratio Lower Upper  
84 100  
49 119.8 82.3 152.9  
86 63.2 44.1 81.9



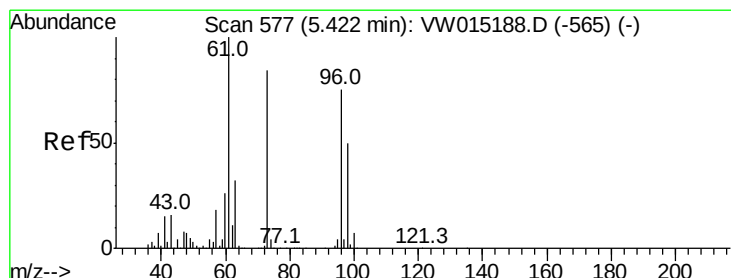
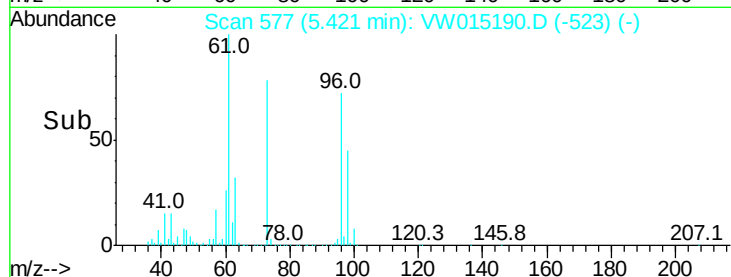
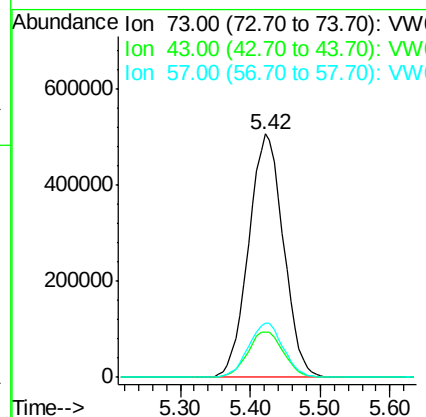
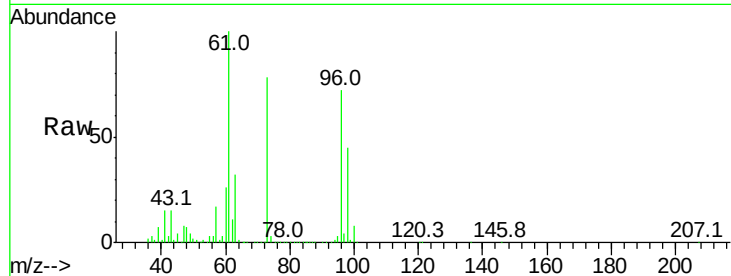


#17  
Methyl tert-butyl Ether  
Concen: 93.117 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

Tgt Ion: 73 Resp: 1754623

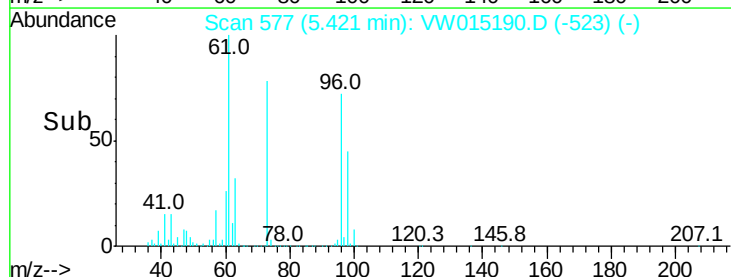
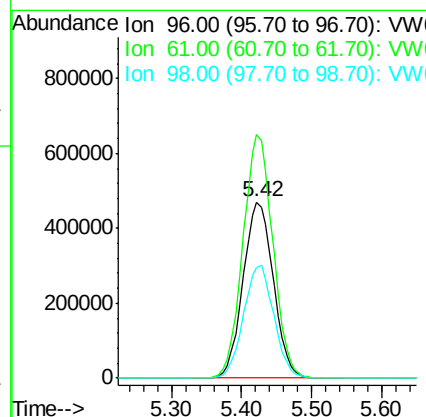
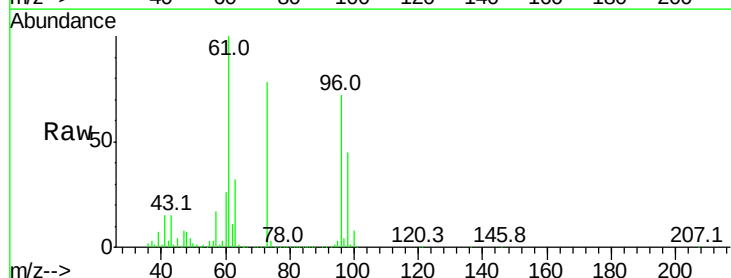
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 19.2  | 15.7  | 23.5  |
| 57  | 22.3  | 17.9  | 26.9  |

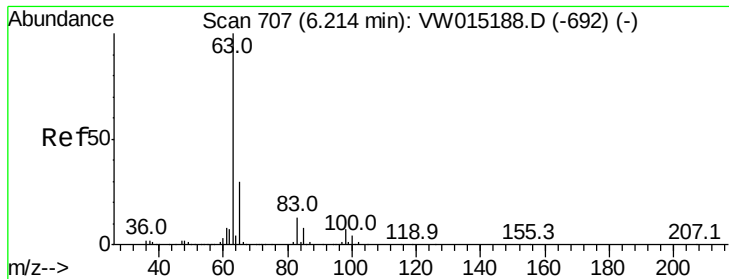


#18  
trans-1,2-Dichloroethene  
Concen: 99.173 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

Tgt Ion: 96 Resp: 1412606

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 138.5 | 93.6  | 173.8 |
| 98  | 62.9  | 46.8  | 87.0  |



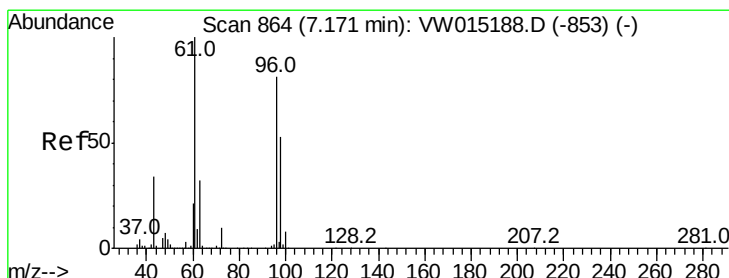
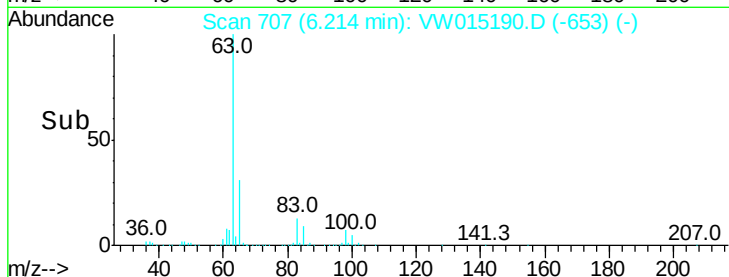
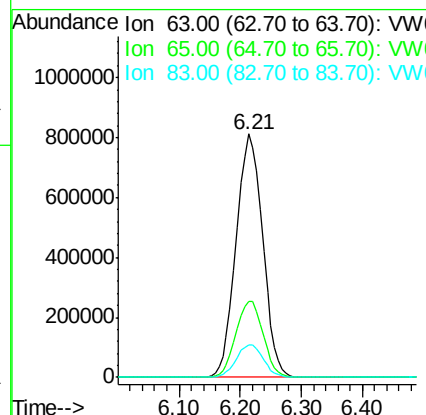
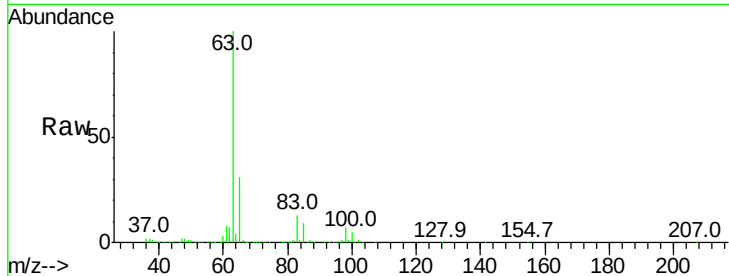


#19  
 1,1-Dichloroethane  
 Concen: 99.345 ug/L  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD10003

Tgt Ion: 63 Resp: 2437637  

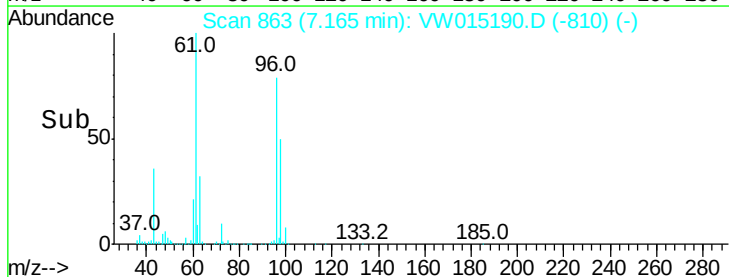
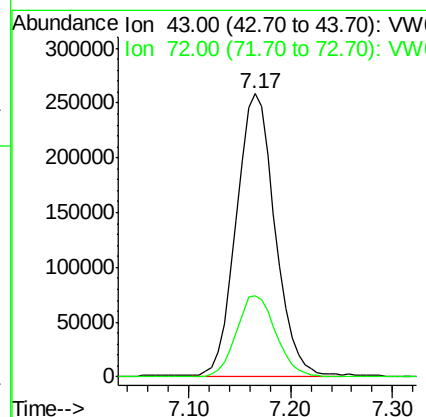
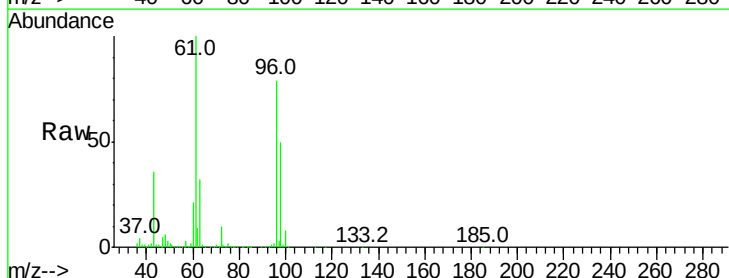
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.2  | 21.3  | 39.5  |
| 83  | 13.4  | 9.0   | 16.8  |

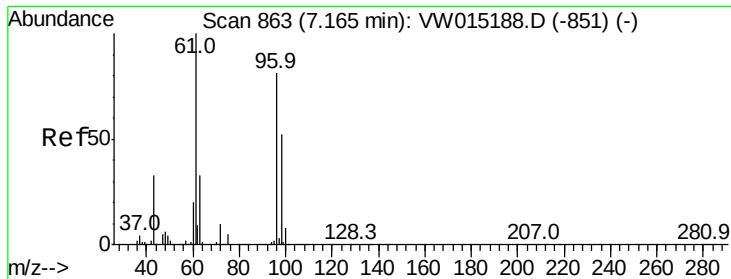


#21  
 2-Butanone  
 Concen: 197.502 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Tgt Ion: 43 Resp: 682165  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 29.0  | 14.9  | 44.7  |





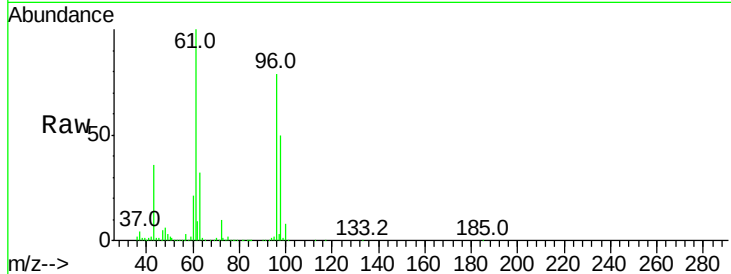
#22

cis-1,2-Dichloroethene  
Concen: 100.368 ug/L  
RT: 7.17 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

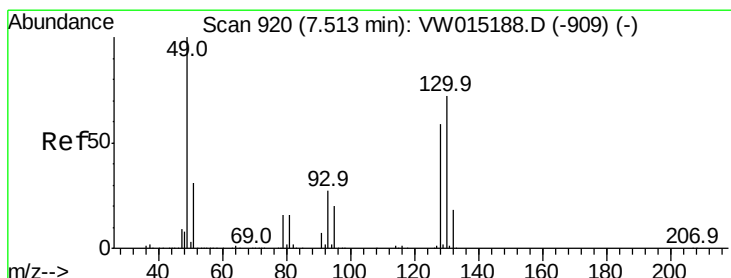
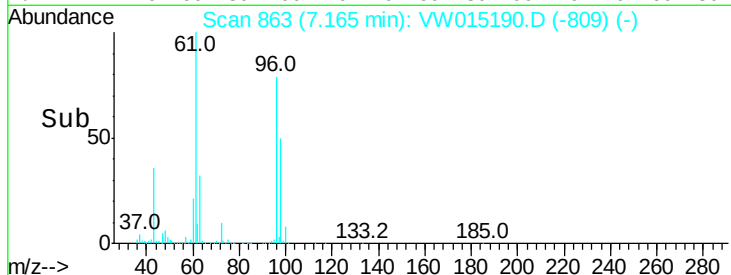
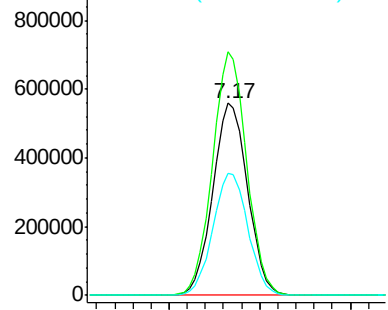
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

Tgt Ion: 96 Resp: 1484922

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 126.7 | 86.7  | 161.1 |
| 98  | 63.8  | 44.7  | 82.9  |



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

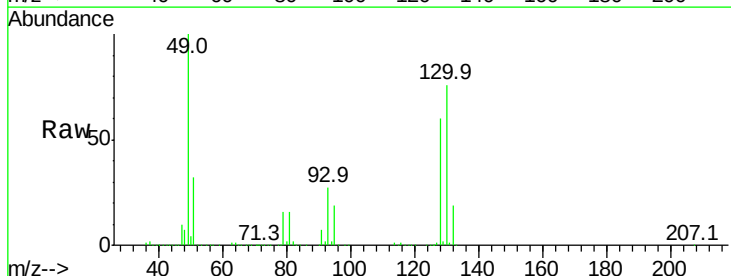


#23

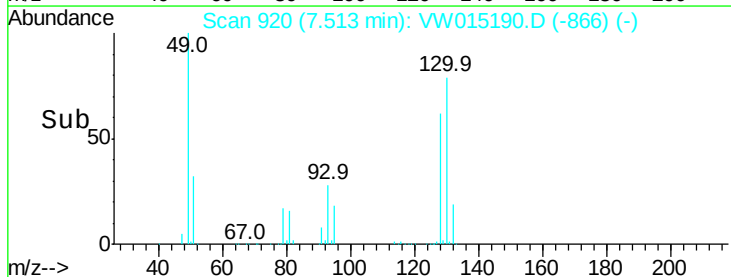
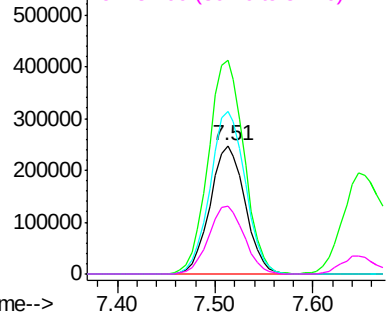
Bromochloromethane  
Concen: 100.791 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

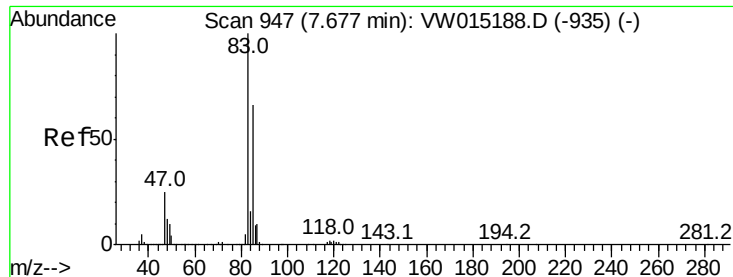
Tgt Ion: 128 Resp: 612512

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 166.8 | 119.1 | 221.3 |
| 130 | 127.4 | 86.3  | 160.3 |
| 51  | 53.1  | 43.0  | 64.6  |



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: 98.965 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

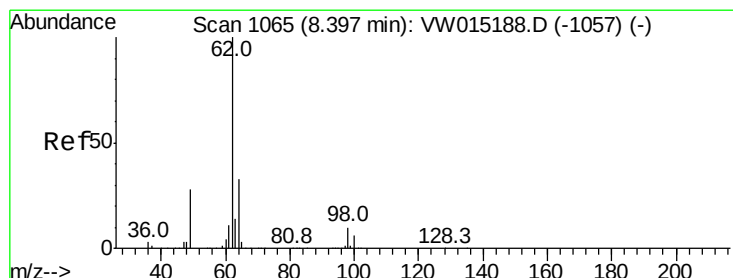
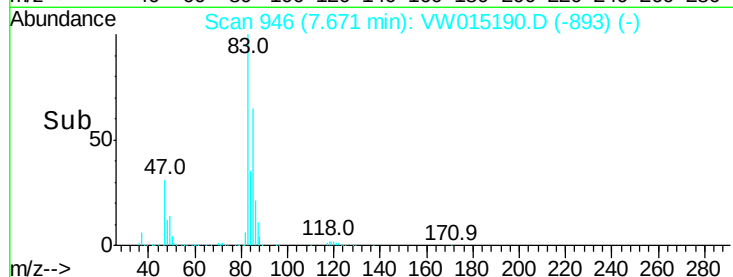
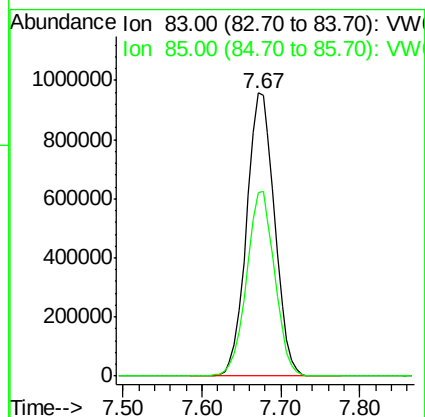
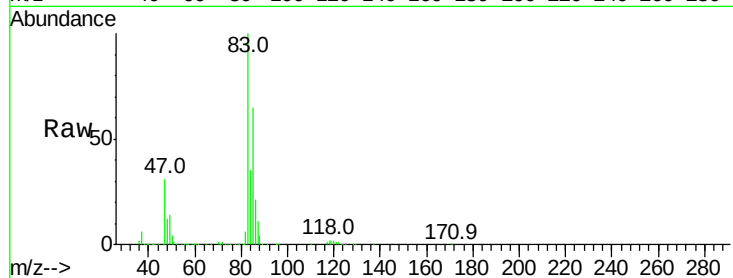
VSTD10003

Tgt Ion: 83 Resp: 2360561

Ion Ratio Lower Upper

83 100

85 65.4 46.5 86.3



#27

1,2-Dichloroethane

Concen: 96.928 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW015190.D

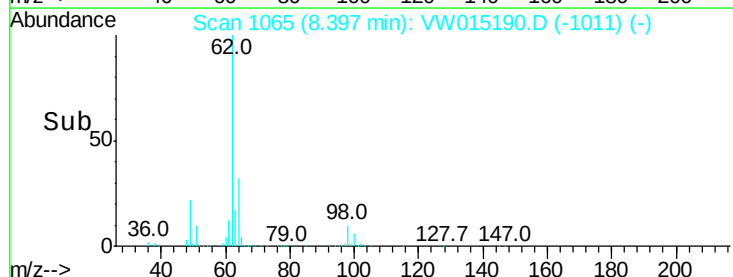
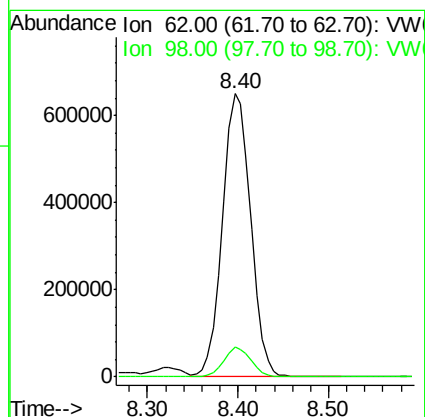
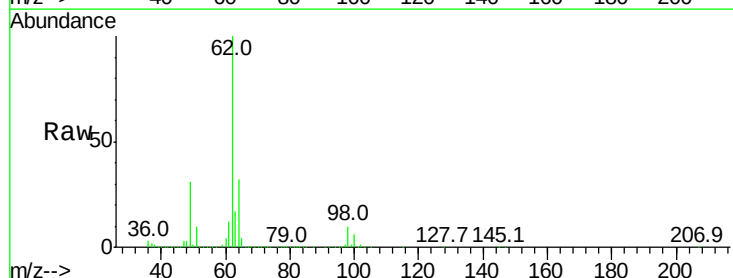
Acq: 14 Apr 2020 13:05

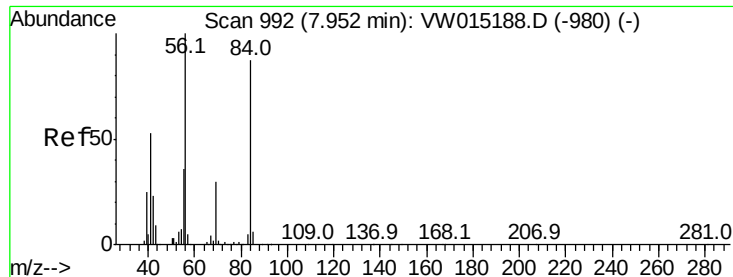
Tgt Ion: 62 Resp: 1406518

Ion Ratio Lower Upper

62 100

98 10.5 8.2 12.2

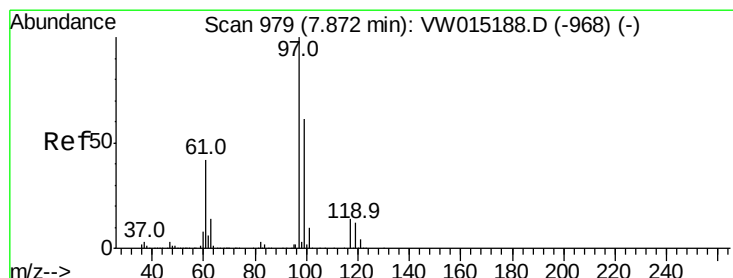
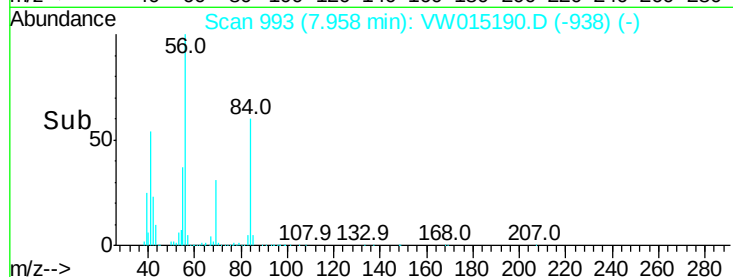
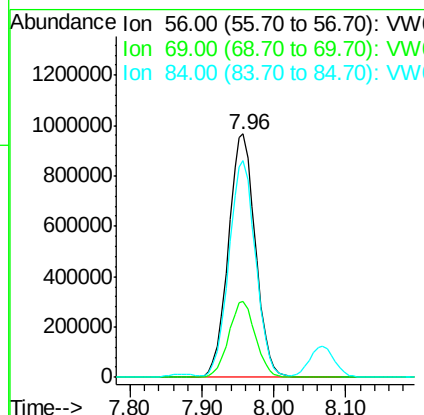
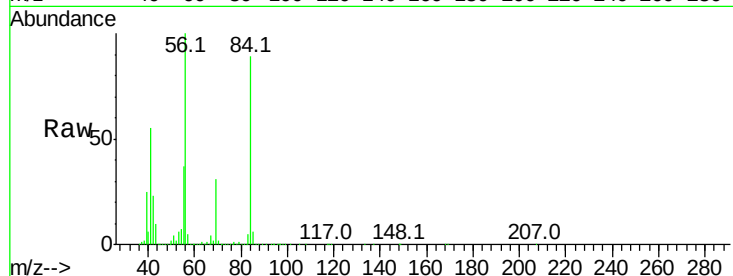




#30  
Cyclohexane  
Concen: 98.941 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

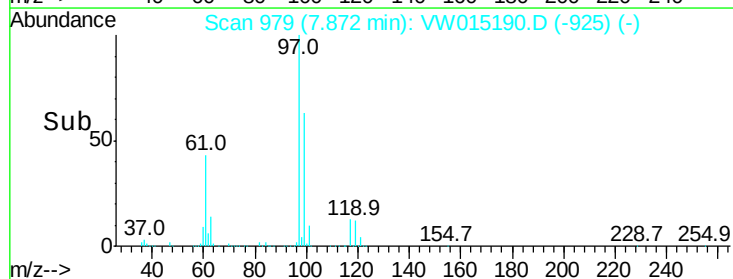
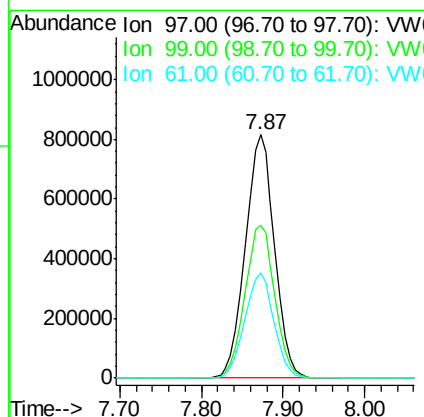
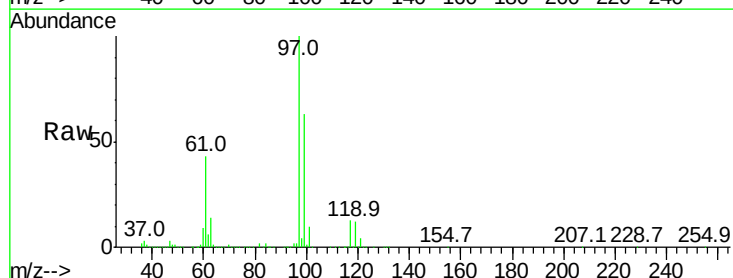
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10003

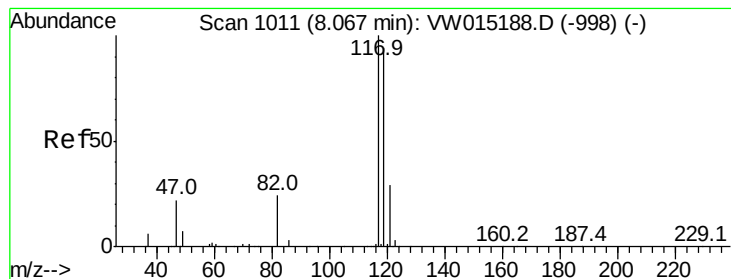
Tgt Ion: 56 Resp: 2513151  
Ion Ratio Lower Upper  
56 100  
69 30.9 24.8 37.2  
84 88.5 71.0 106.6



#31  
1,1,1-Trichloroethane  
Concen: 97.878 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. -0.00 min  
Lab File: VW015190.D  
Acq: 14 Apr 2020 13:05

Tgt Ion: 97 Resp: 2024183  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.2 76.8  
61 43.2 34.1 51.1





#32

Carbon tetrachloride

Concen: 98.587 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

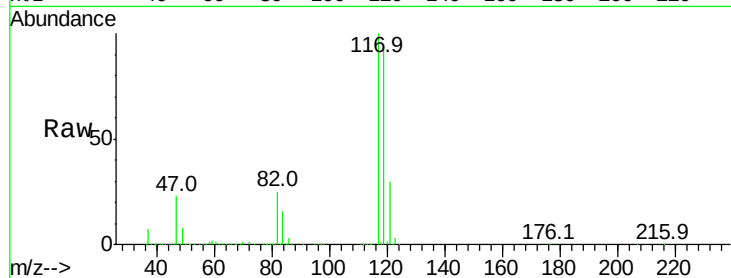
VSTD10003

Tgt Ion:117 Resp: 1865121

Ion Ratio Lower Upper

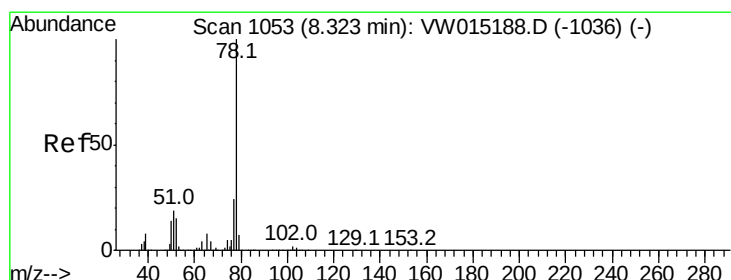
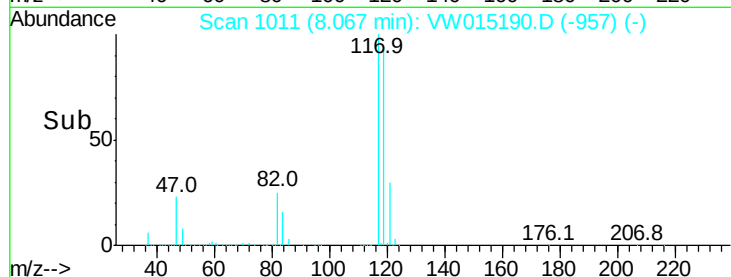
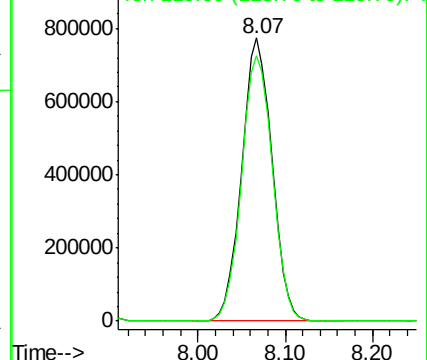
117 100

119 95.9 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 98.460 ug/L

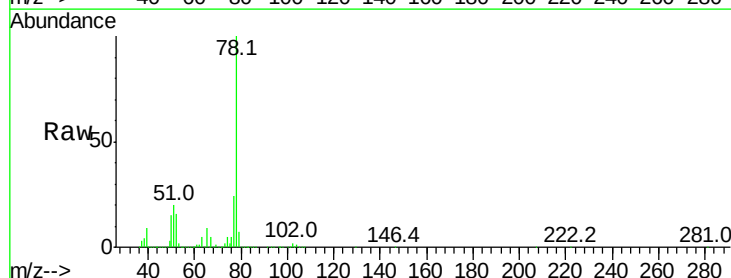
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

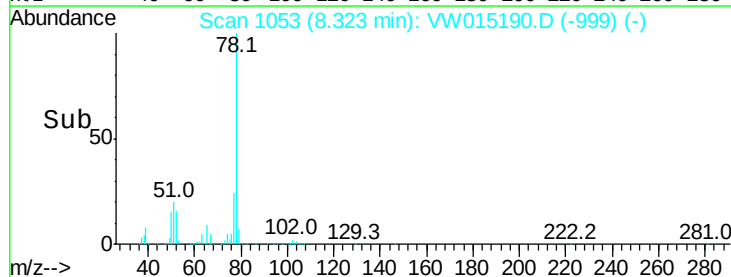
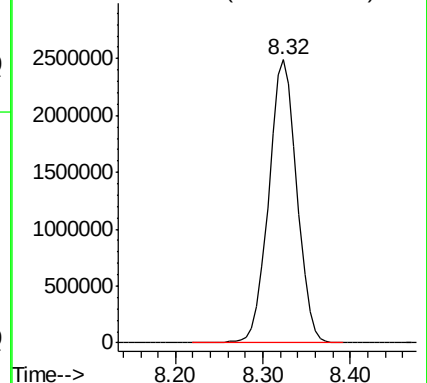
Lab File: VW015190.D

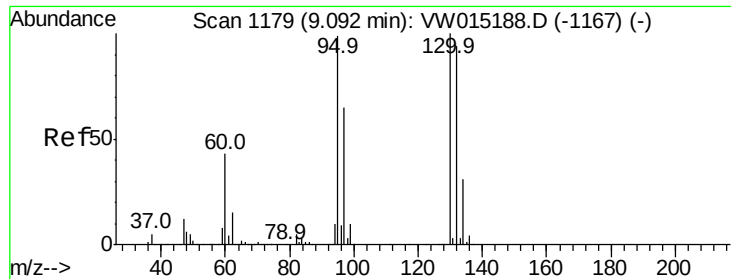
Acq: 14 Apr 2020 13:05

Tgt Ion: 78 Resp: 5591263



Abundance Ion 78.00 (77.70 to 78.70): VW



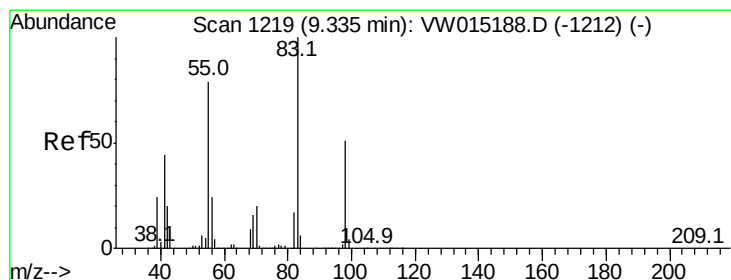
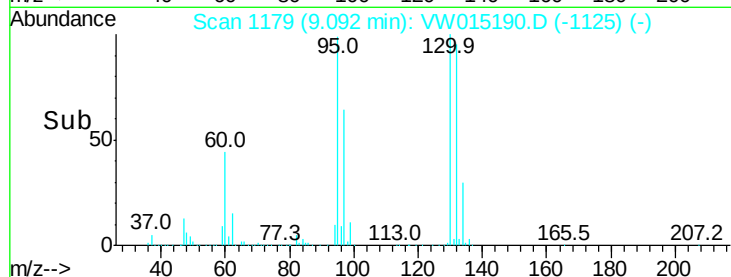
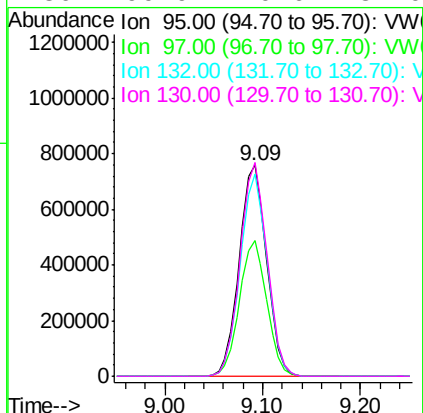
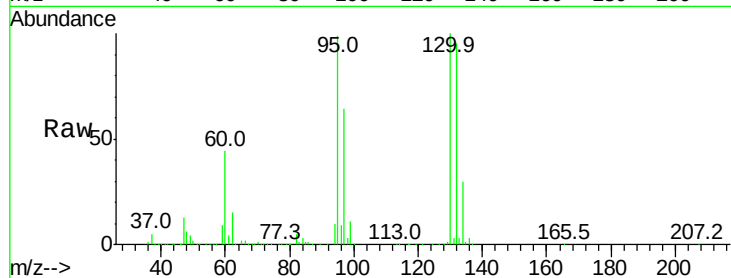


#35  
 Trichloroethene  
 Concen: 98.336 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10003

Tgt Ion: 95 Resp: 1475027

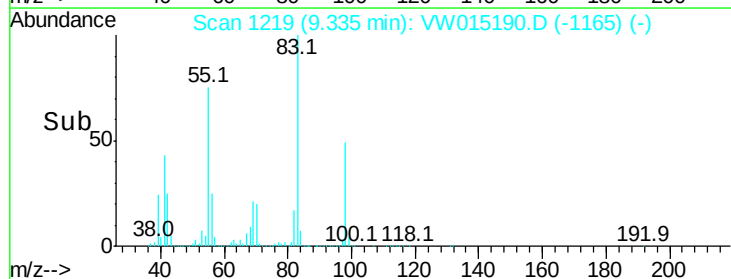
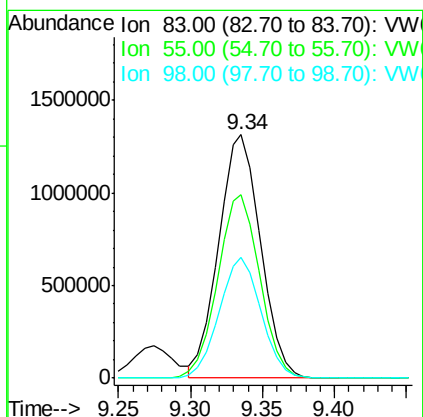
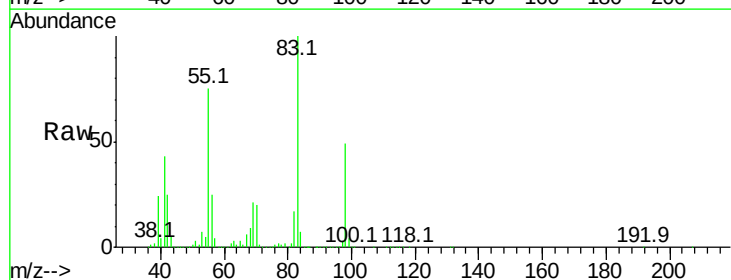
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 45.4  | 84.2  |
| 132 | 94.2  | 67.1  | 124.5 |
| 130 | 99.9  | 70.6  | 131.0 |



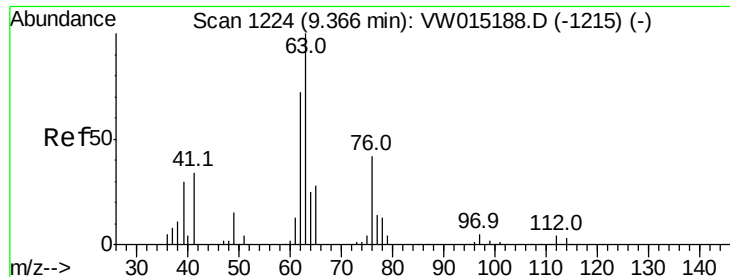
#36  
 Methylcyclohexane  
 Concen: 97.937 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Tgt Ion: 83 Resp: 2667951

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 75.5  | 60.1  | 90.1  |
| 98  | 49.5  | 39.4  | 59.0  |







#40

1,2-Dichloropropane

Concen: 100.054 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

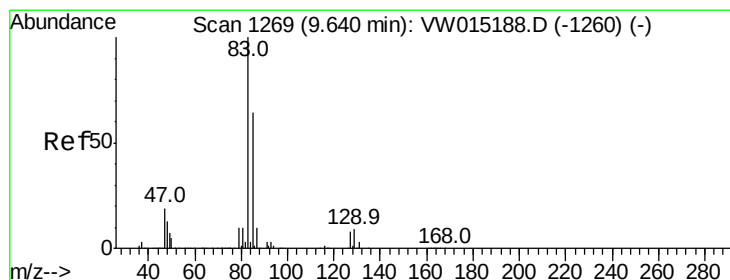
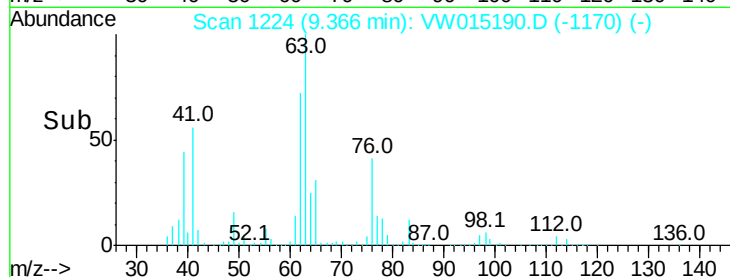
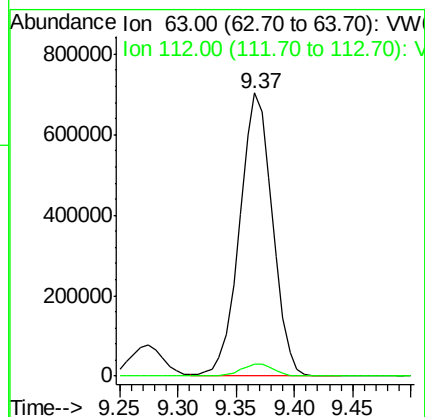
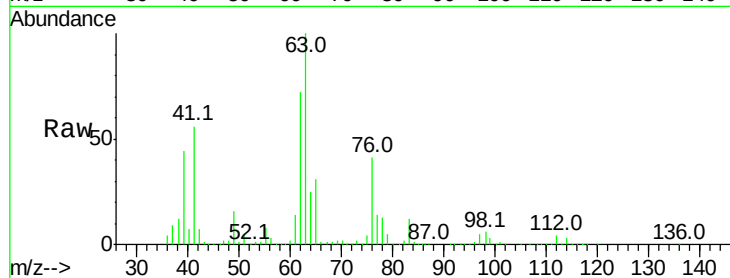
VSTD10003

Tgt Ion: 63 Resp: 1386241

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3



#41

Bromodichloromethane

Concen: 100.260 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

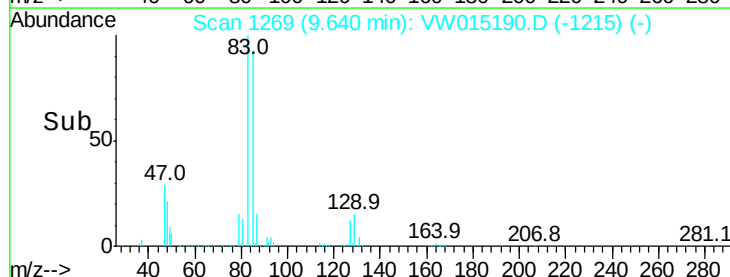
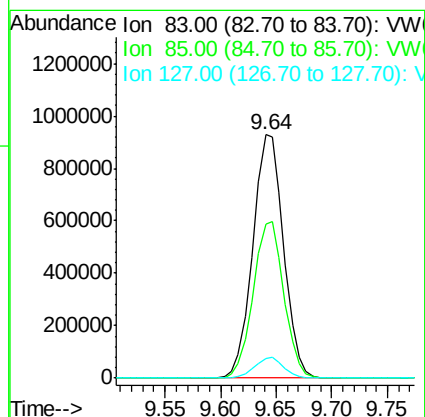
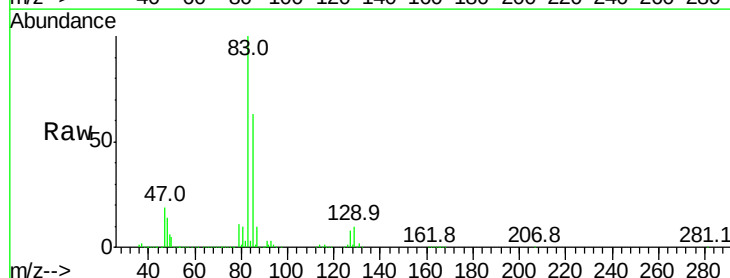
Tgt Ion: 83 Resp: 1785778

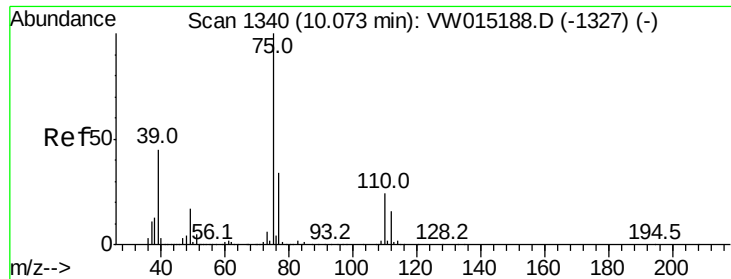
Ion Ratio Lower Upper

83 100

85 63.1 44.4 82.5

127 7.9 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 100.759 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

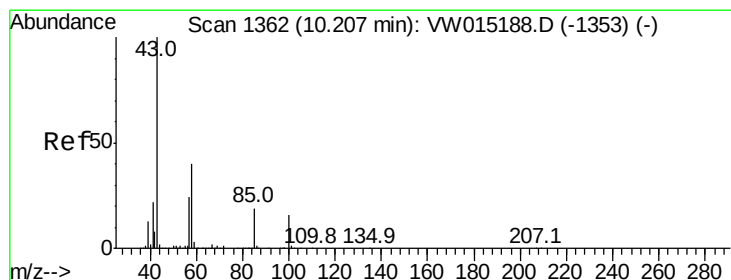
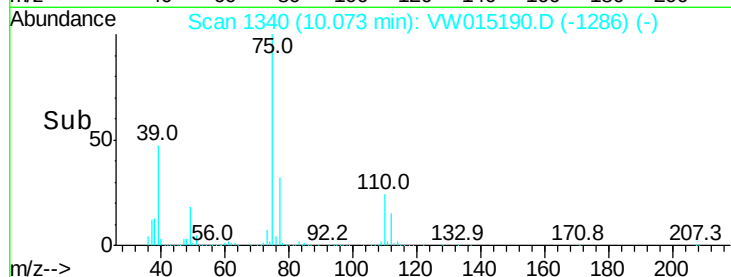
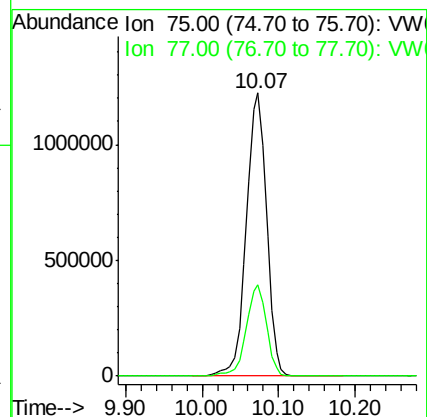
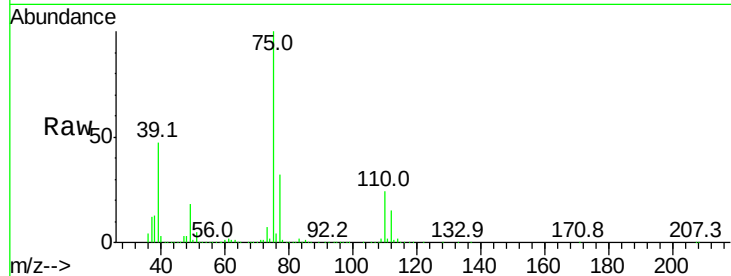
VSTD10003

Tgt Ion: 75 Resp: 2251843

Ion Ratio Lower Upper

75 100

77 32.4 23.5 43.7



#43

4-Methyl-2-pentanone

Concen: 193.934 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

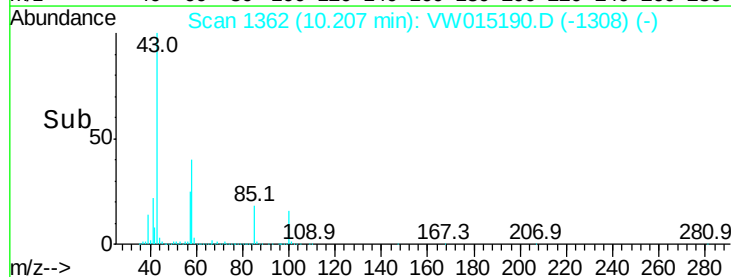
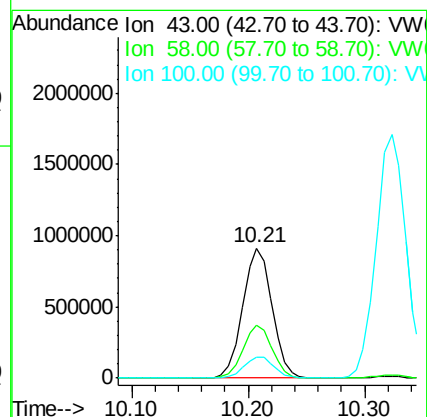
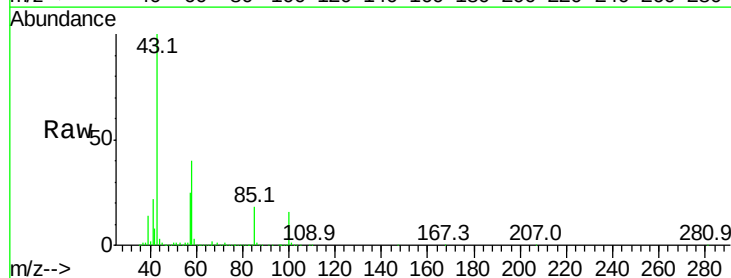
Tgt Ion: 43 Resp: 1600453

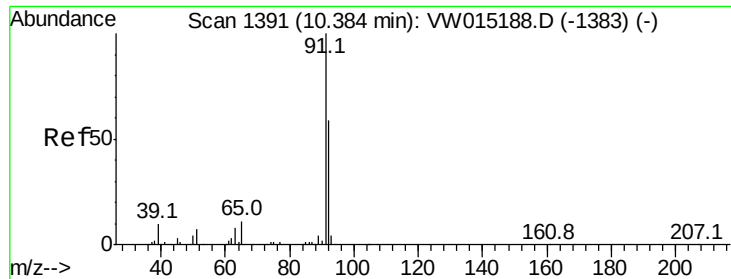
Ion Ratio Lower Upper

43 100

58 40.4 32.5 48.7

100 16.4 13.0 19.6





#44

Toluene

Concen: 101.319 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

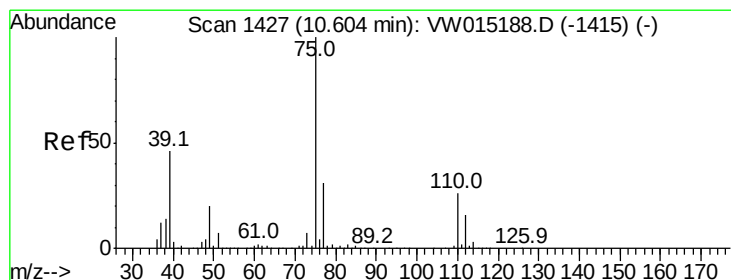
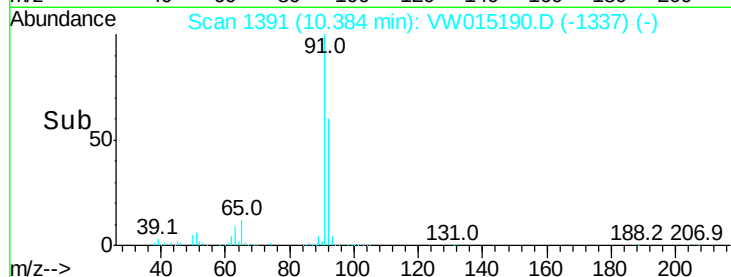
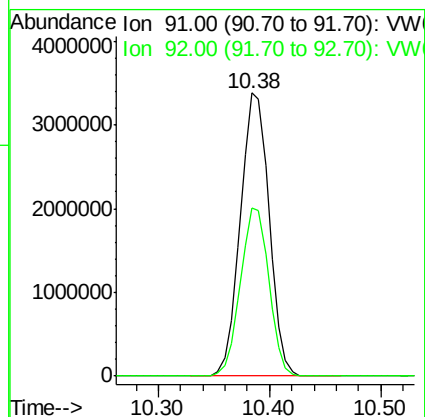
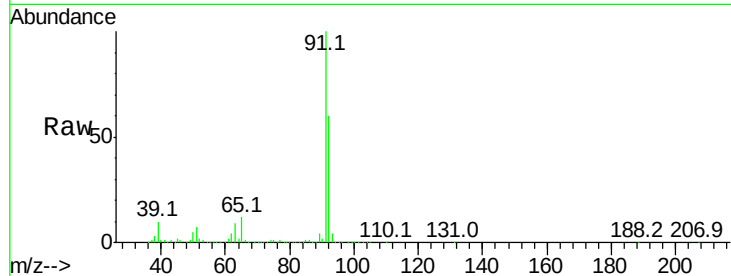
VSTD10003

Tgt Ion: 91 Resp: 6062430

Ion Ratio Lower Upper

91 100

92 59.6 41.3 76.7



#45

trans-1,3-Dichloropropene

Concen: 99.712 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015190.D

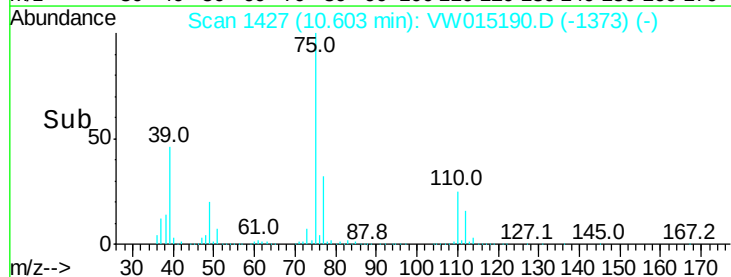
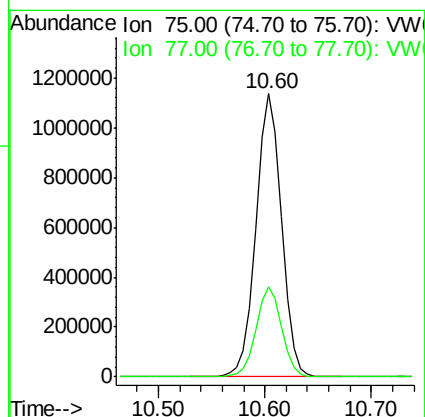
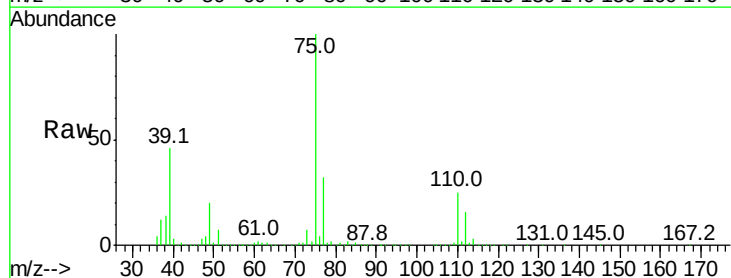
Acq: 14 Apr 2020 13:05

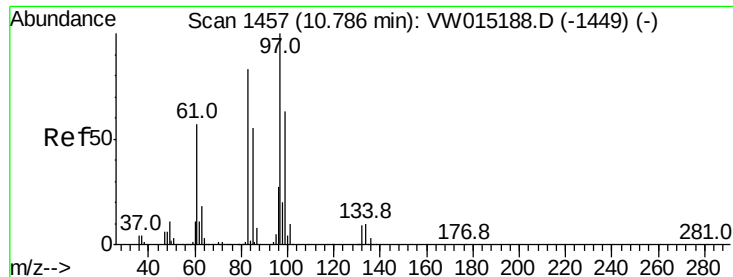
Tgt Ion: 75 Resp: 1918164

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.5





#46

1,1,2-Trichloroethane

Concen: 98.623 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10003

Tgt Ion: 97 Resp: 973370

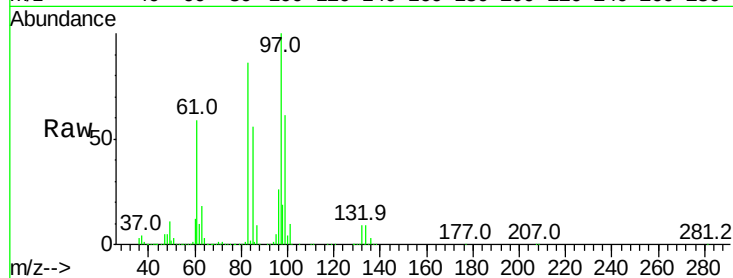
Ion Ratio Lower Upper

97 100

83 85.5 57.9 107.5

85 55.9 38.5 71.5

99 61.3 43.7 81.1

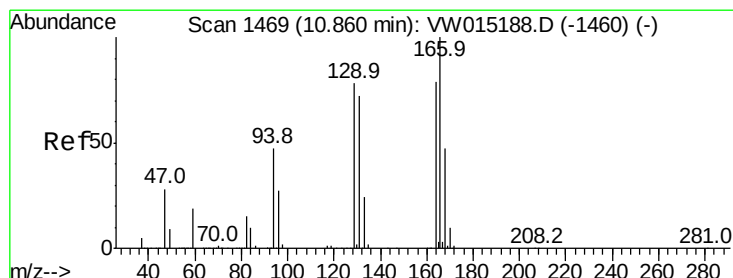
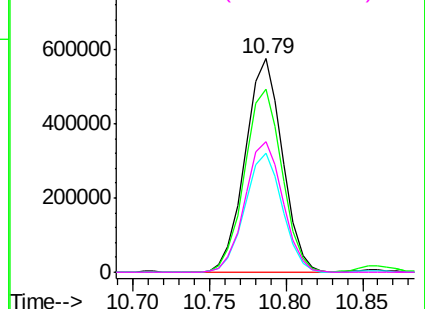
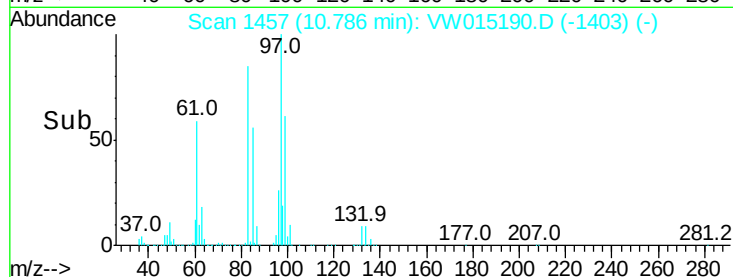


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 100.409 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Tgt Ion: 164 Resp: 1078511

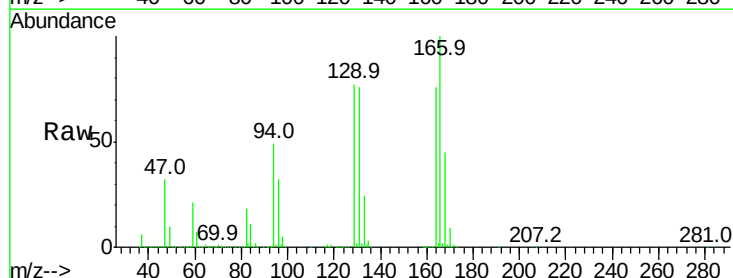
Ion Ratio Lower Upper

164 100

129 101.0 69.4 128.8

131 99.1 63.7 118.3

166 131.2 88.4 164.2

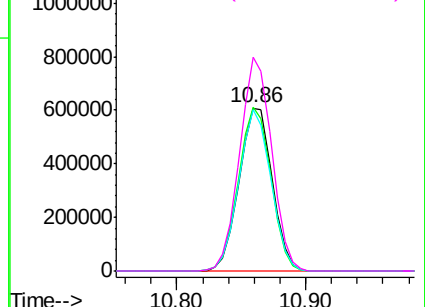
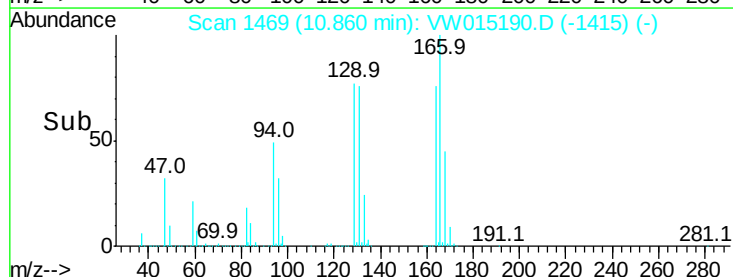


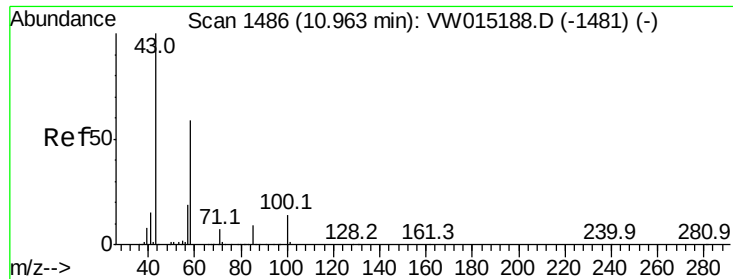
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 201.826 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10003

Tgt Ion: 43 Resp: 1097580

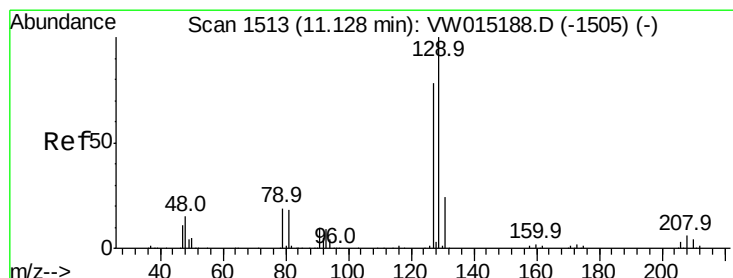
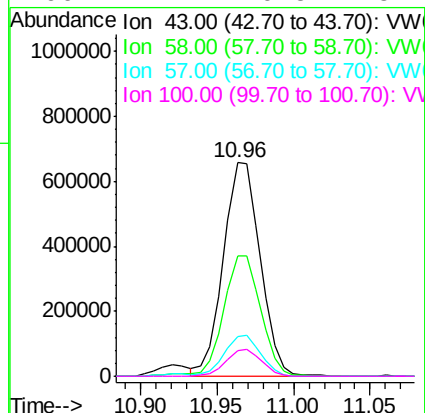
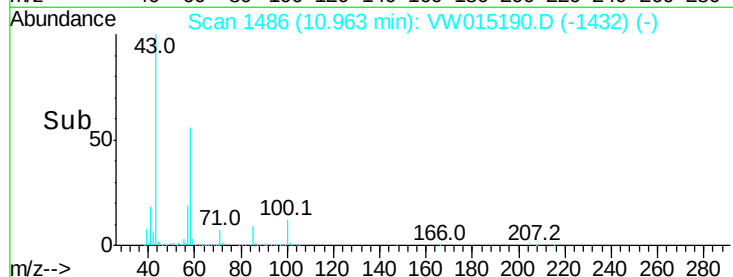
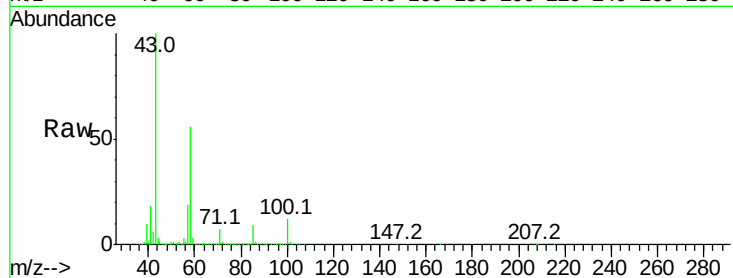
Ion Ratio Lower Upper

43 100

58 56.4 45.8 68.6

57 18.9 15.1 22.7

100 12.4 10.5 15.7



#50

Dibromochloromethane

Concen: 100.817 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW015190.D

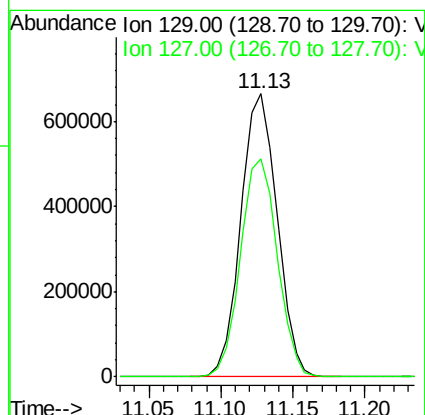
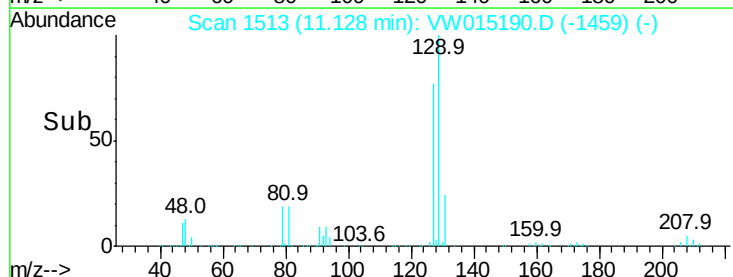
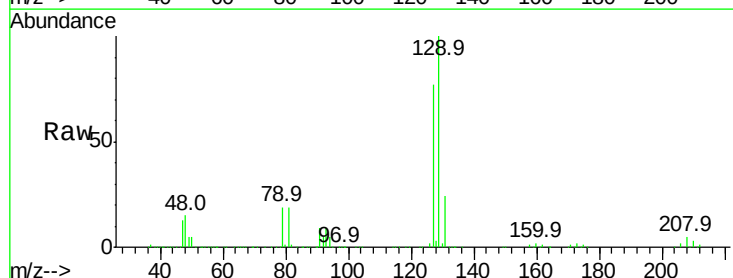
Acq: 14 Apr 2020 13:05

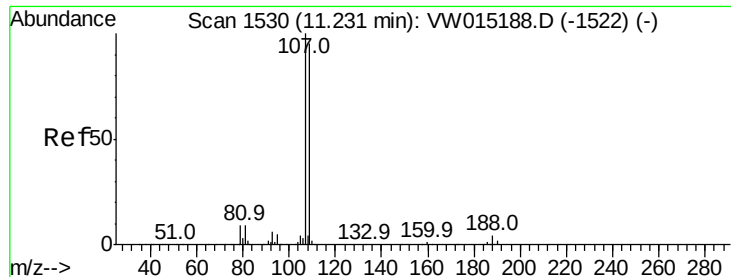
Tgt Ion: 129 Resp: 1164574

Ion Ratio Lower Upper

129 100

127 76.8 54.3 100.9

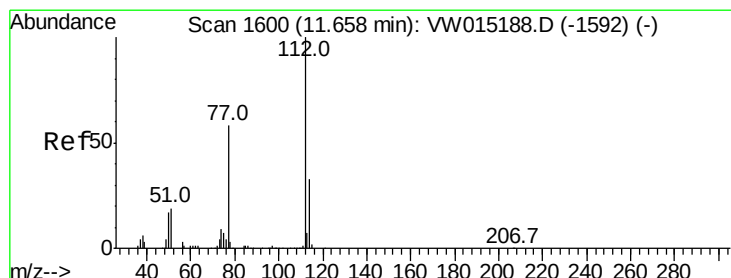
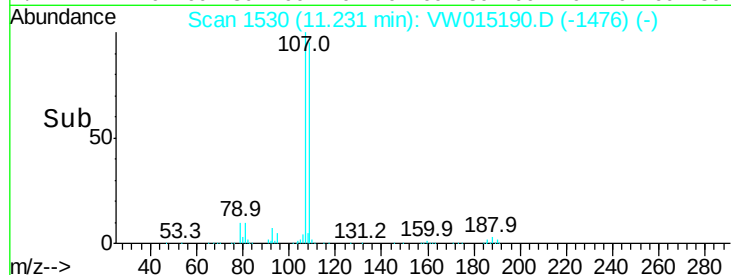
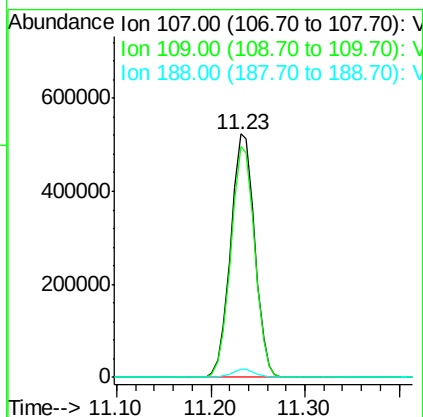
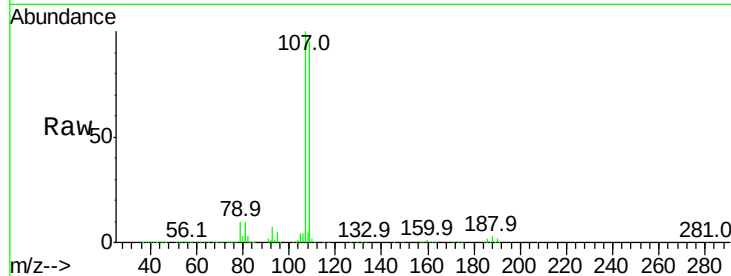




#51  
 1,2-Dibromoethane  
 Concen: 99.688 ug/L  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

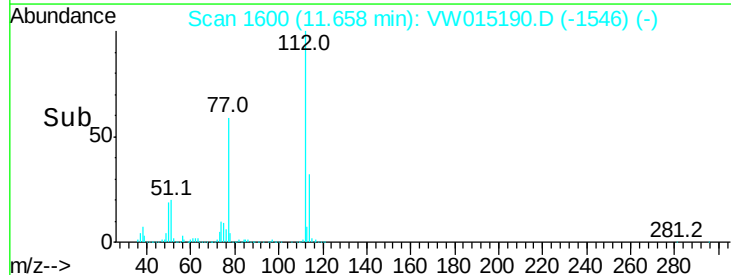
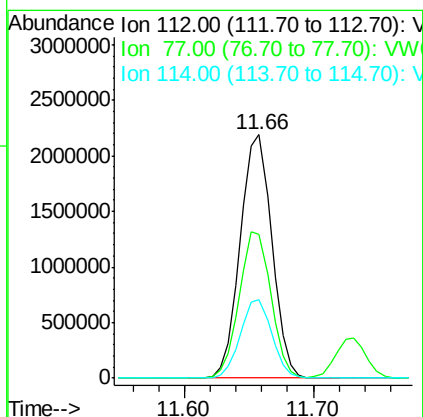
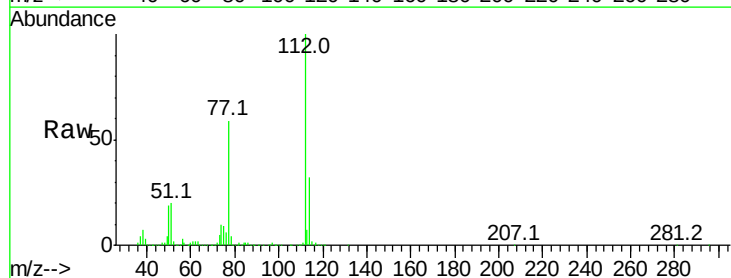
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10003

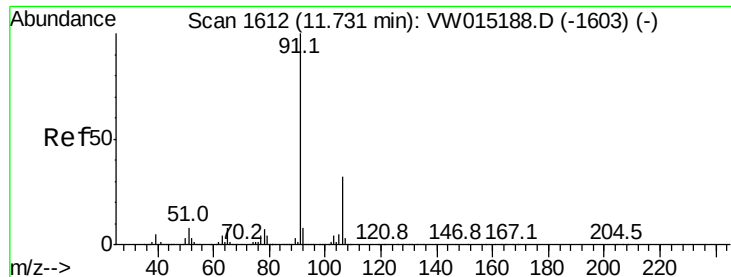
Tgt Ion:107 Resp: 927429  
 Ion Ratio Lower Upper  
 107 100  
 109 94.8 66.8 124.2  
 188 3.2 3.0 4.6



#52  
 Chlorobenzene  
 Concen: 101.466 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Tgt Ion:112 Resp: 3729558  
 Ion Ratio Lower Upper  
 112 100  
 77 59.1 46.2 69.4  
 114 32.1 22.7 42.3





#53

Ethylbenzene

Concen: 101.263 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

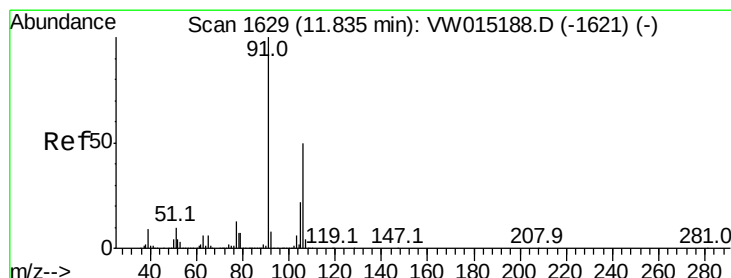
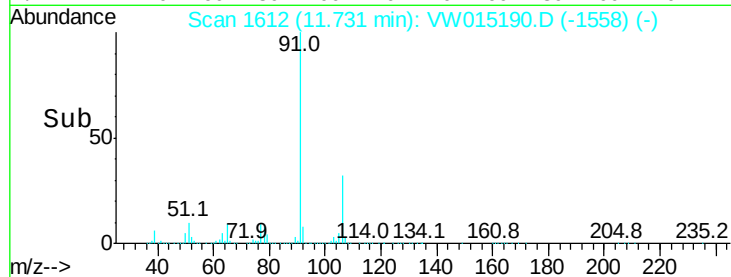
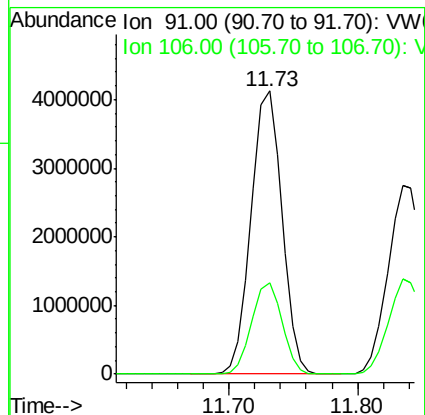
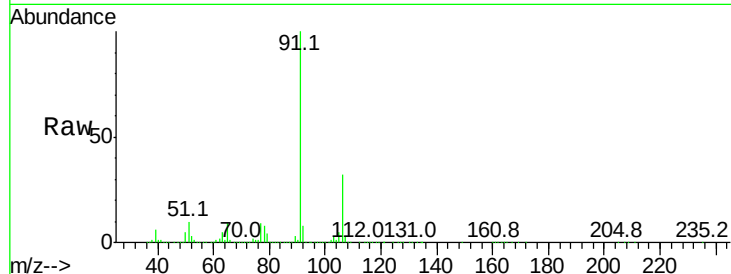
VSTD10003

Tgt Ion: 91 Resp: 6814390

Ion Ratio Lower Upper

91 100

106 32.4 22.4 41.6



#54

m,p-Xylene

Concen: 101.760 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW015190.D

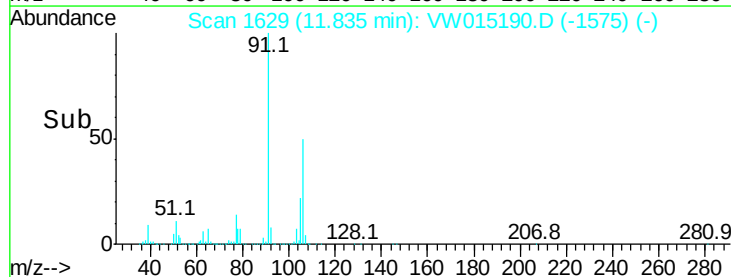
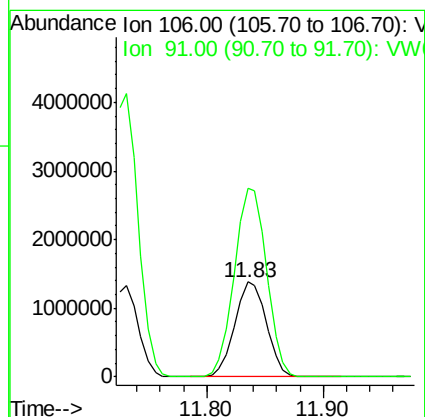
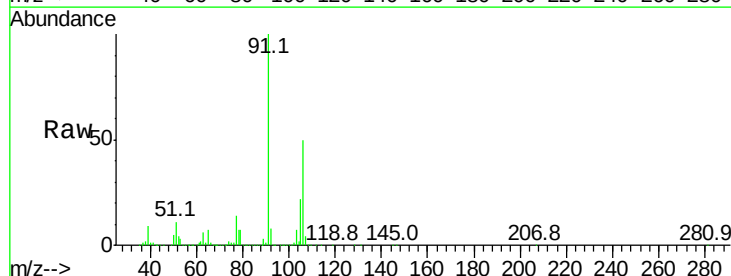
Acq: 14 Apr 2020 13:05

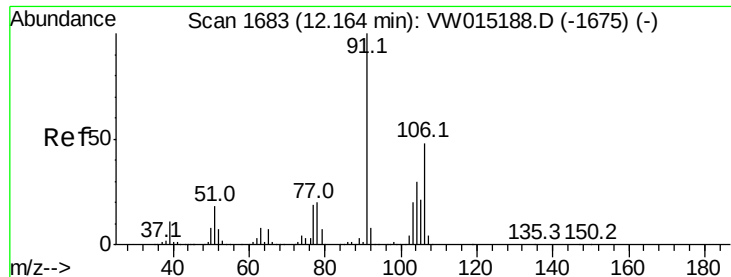
Tgt Ion: 106 Resp: 2626265

Ion Ratio Lower Upper

106 100

91 199.0 141.0 261.8





#55

o-xylene

Concen: 101.628 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampled :

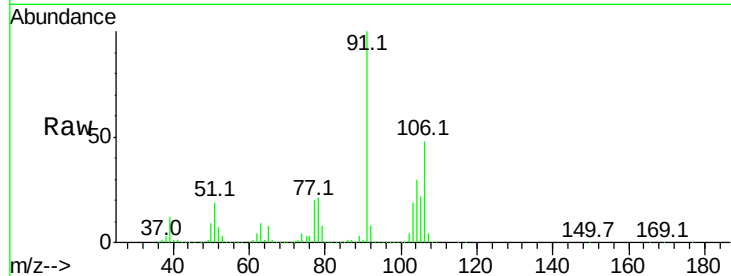
VSTD10003

Tgt Ion:106 Resp: 2506870

Ion Ratio Lower Upper

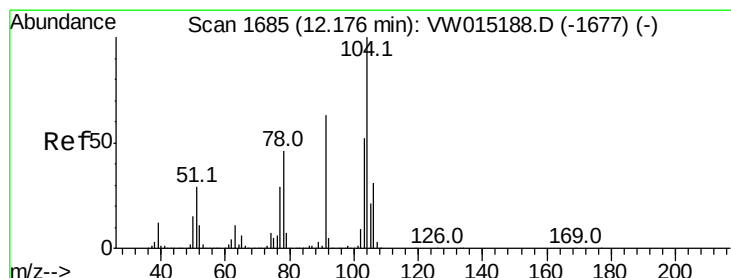
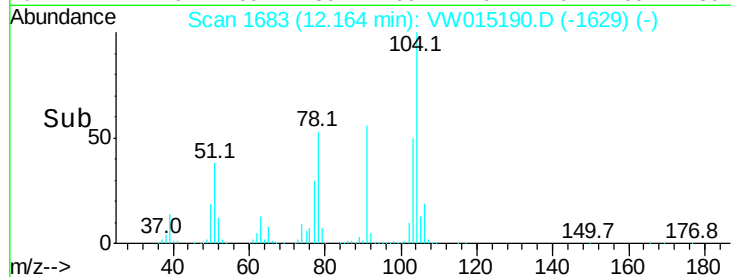
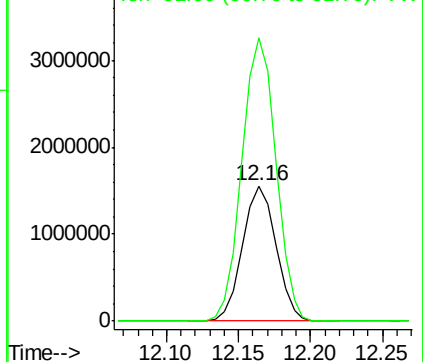
106 100

91 209.6 145.7 270.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 102.677 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW015190.D

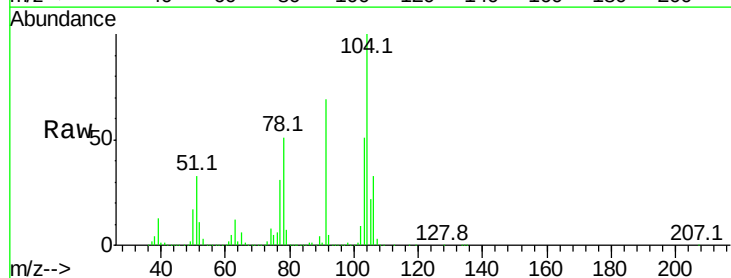
Acq: 14 Apr 2020 13:05

Tgt Ion:104 Resp: 4259635

Ion Ratio Lower Upper

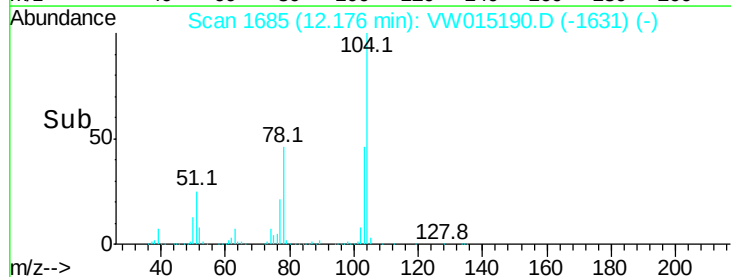
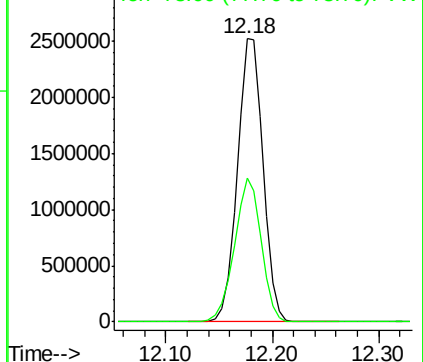
104 100

78 50.7 32.3 59.9

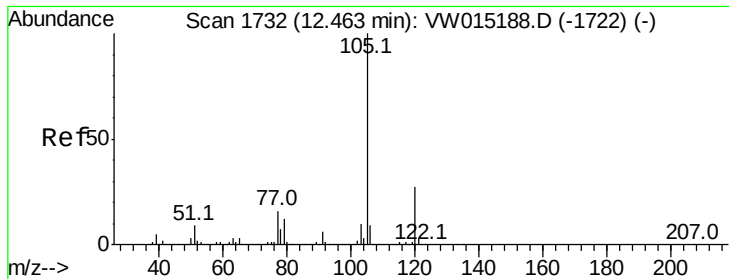


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW







#57

Isopropylbenzene

Concen: 100.947 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampled :

VSTD10003

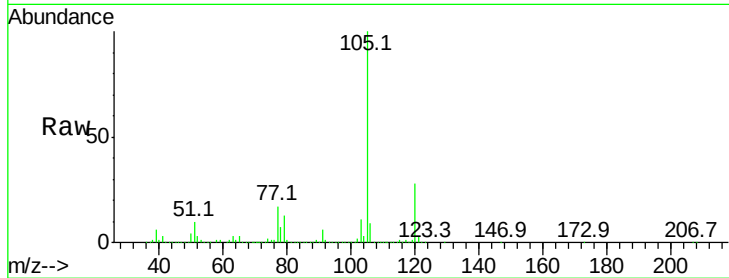
Tgt Ion:105 Resp: 6722553

Ion Ratio Lower Upper

105 100

120 27.2 21.4 32.2

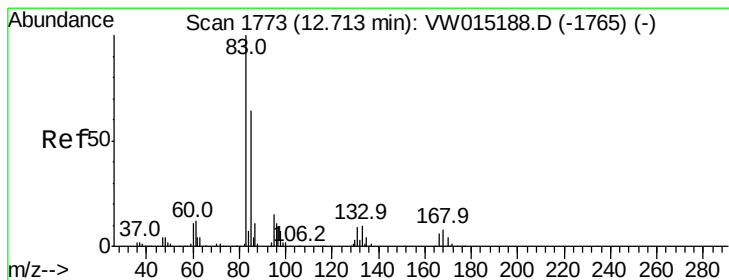
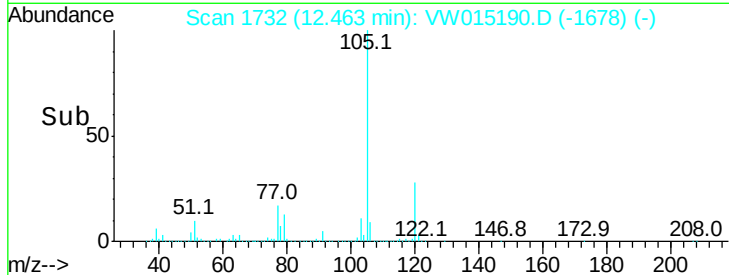
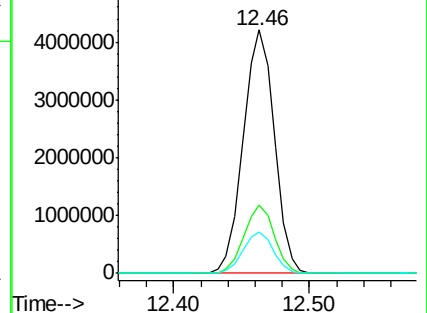
77 16.5 12.4 18.6



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: 99.045 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

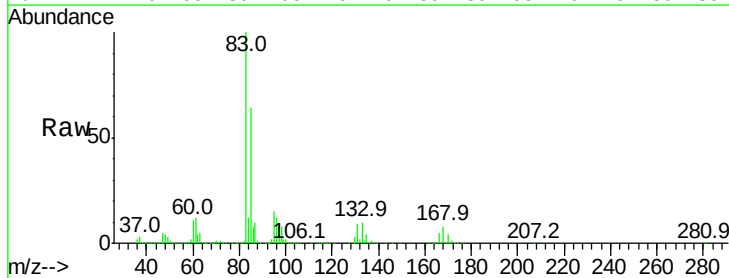
Tgt Ion: 83 Resp: 1139015

Ion Ratio Lower Upper

83 100

85 63.6 44.7 83.1

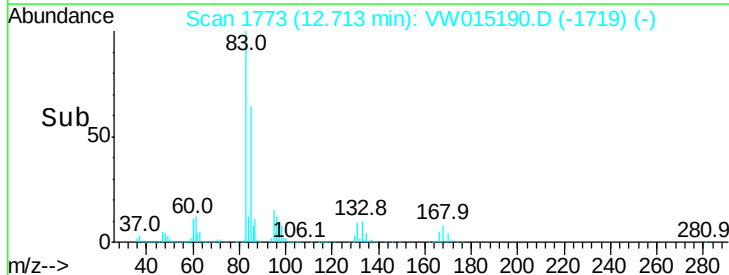
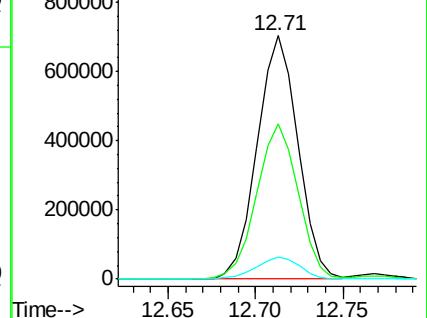
131 9.3 7.0 10.6

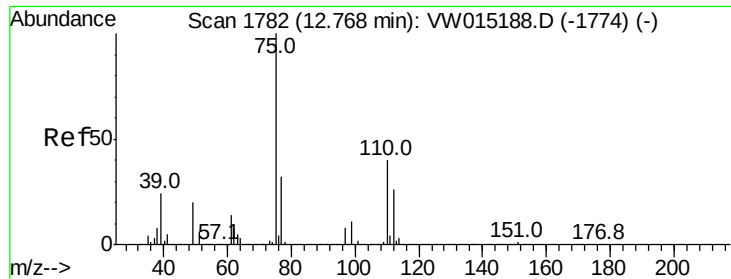


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 96.863 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

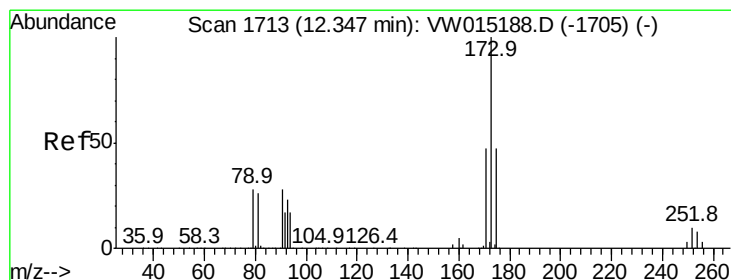
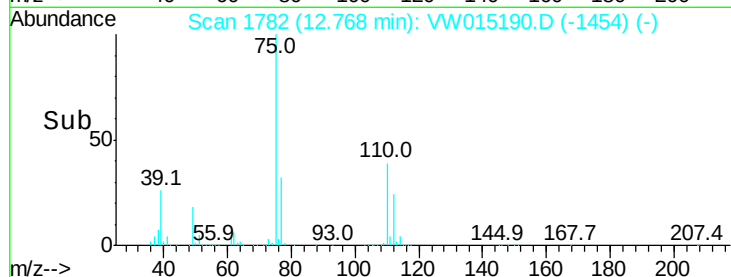
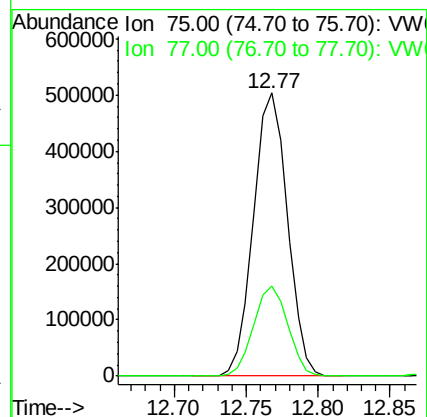
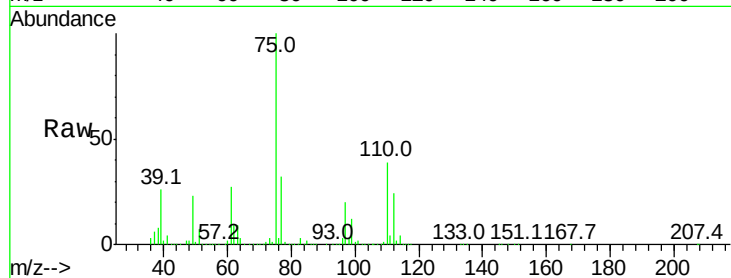
VSTD10003

Tgt Ion: 75 Resp: 823127

Ion Ratio Lower Upper

75 100

77 31.9 26.3 39.5



#62

Bromoform

Concen: 99.713 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

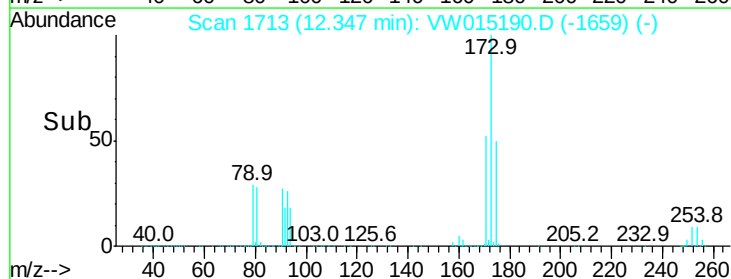
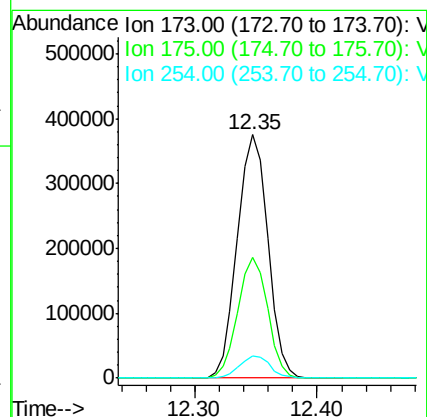
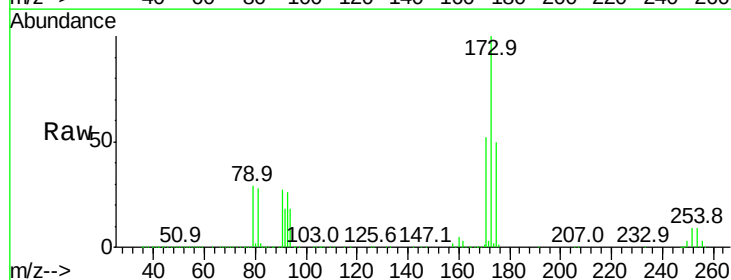
Tgt Ion: 173 Resp: 650457

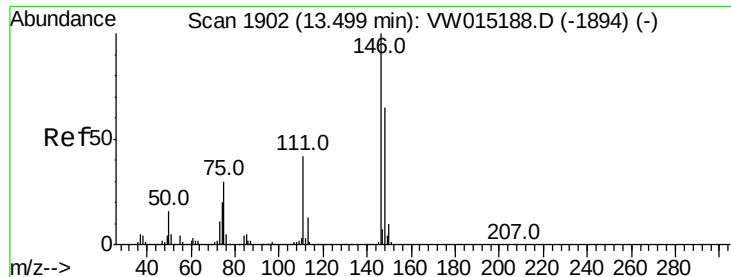
Ion Ratio Lower Upper

173 100

175 48.5 38.4 57.6

254 9.0 7.3 10.9

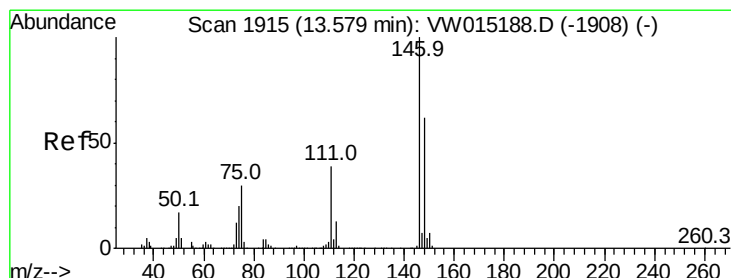
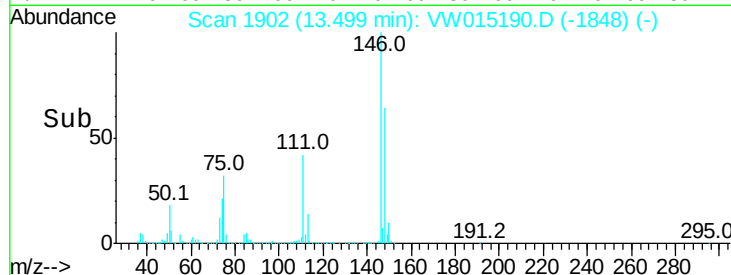
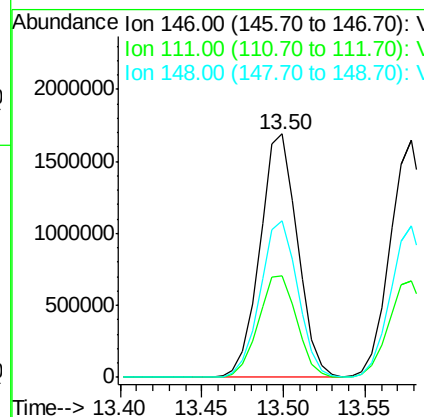
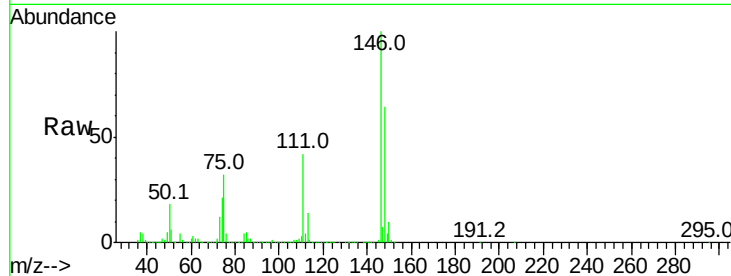




#63  
 1,3-Dichlorobenzene  
 Concen: 100.496 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

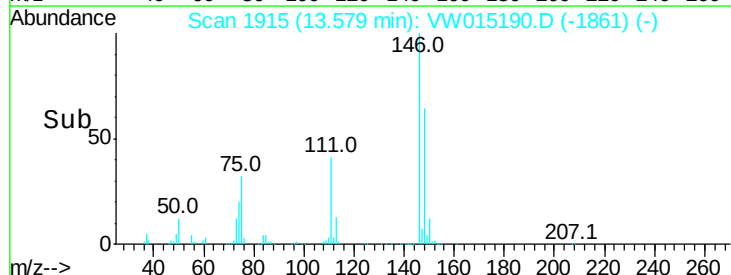
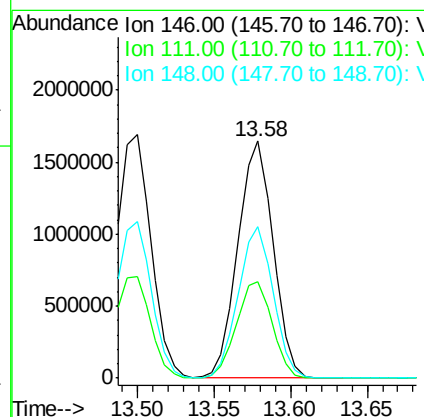
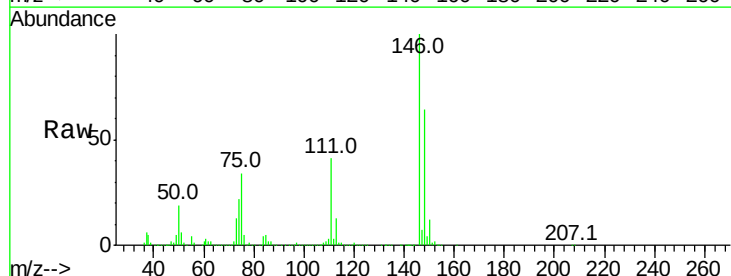
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10003

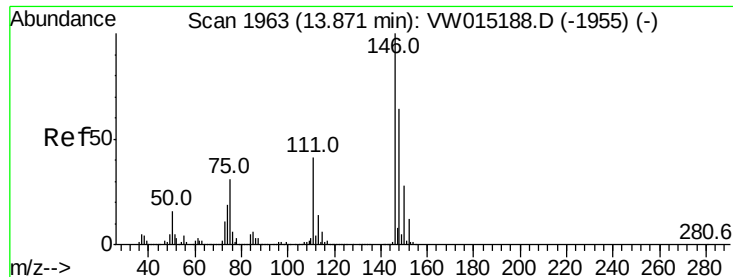
Tgt Ion:146 Resp: 2706444  
 Ion Ratio Lower Upper  
 146 100  
 111 41.9 29.3 54.3  
 148 64.1 45.7 84.9



#64  
 1,4-Dichlorobenzene  
 Concen: 100.923 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Tgt Ion:146 Resp: 2640029  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 27.6 51.2  
 148 63.9 43.6 81.0





#65

1,2-Dichlorobenzene

Concen: 98.504 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10003

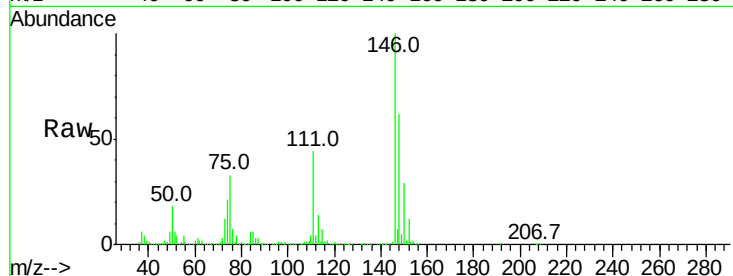
Tgt Ion:146 Resp: 2355833

Ion Ratio Lower Upper

146 100

111 44.0 33.0 49.4

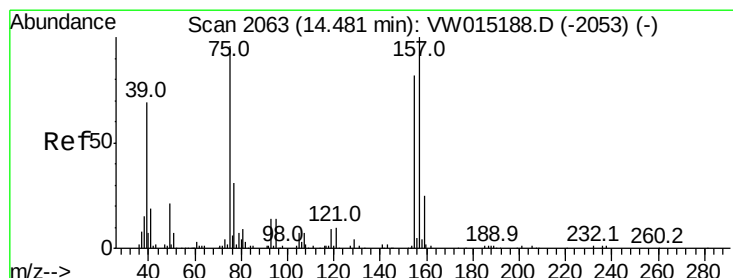
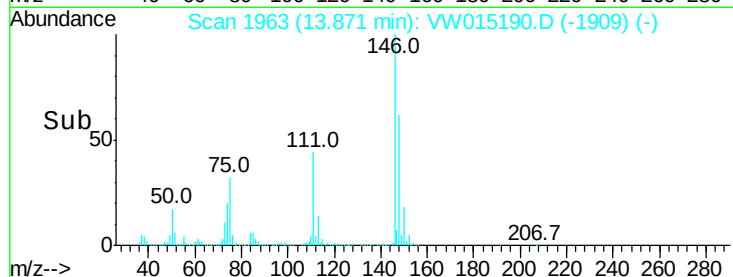
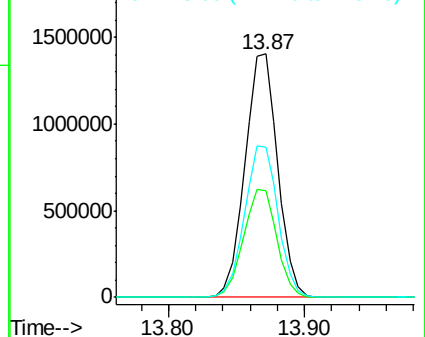
148 61.8 51.5 77.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 89.602 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

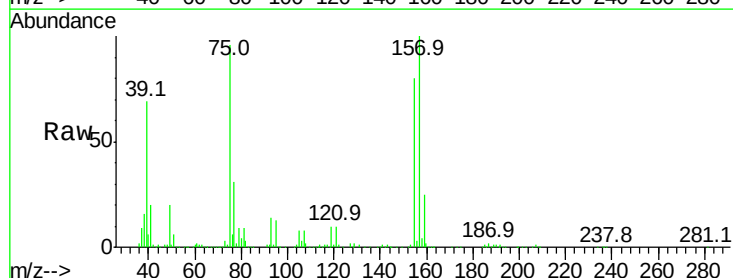
Tgt Ion: 75 Resp: 177469

Ion Ratio Lower Upper

75 100

157 103.7 83.4 125.2

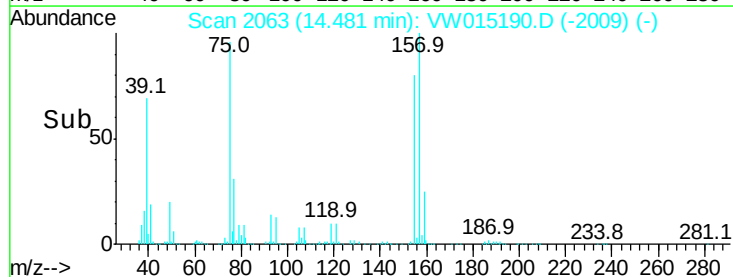
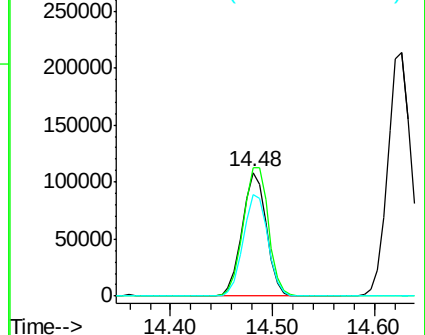
155 82.5 68.7 103.1

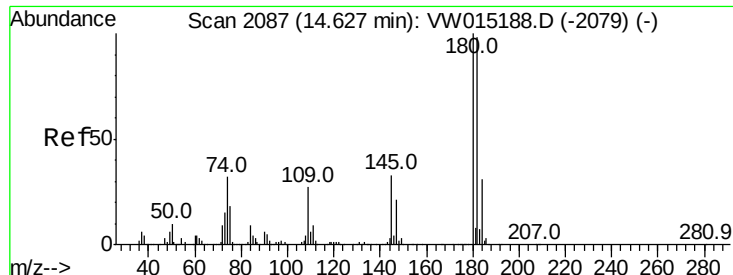


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

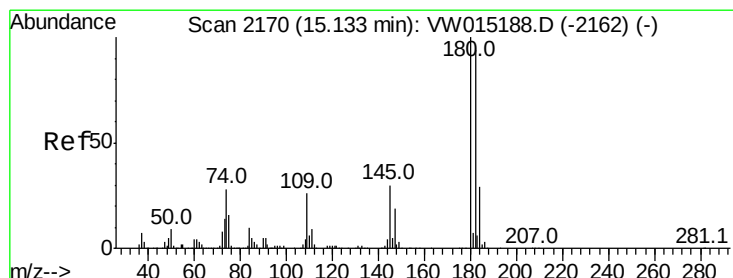
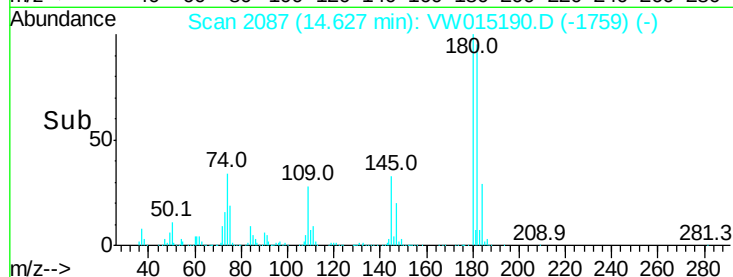
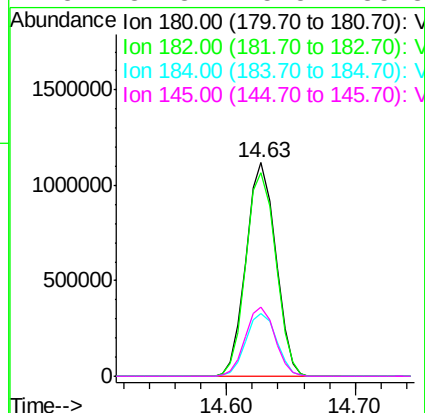
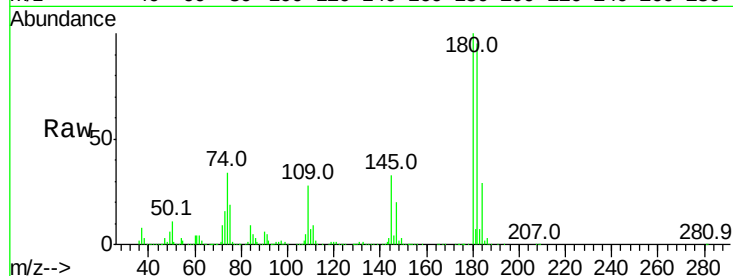




#67  
 1,3,5-Trichlorobenzene  
 Concen: 96.372 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

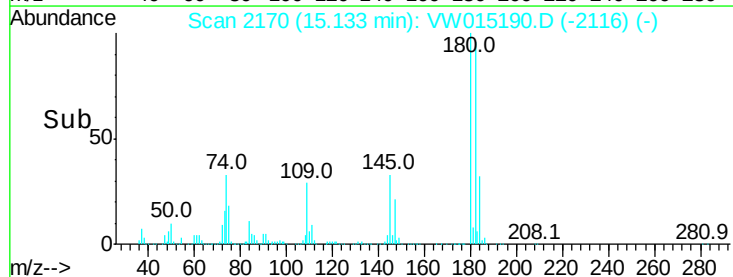
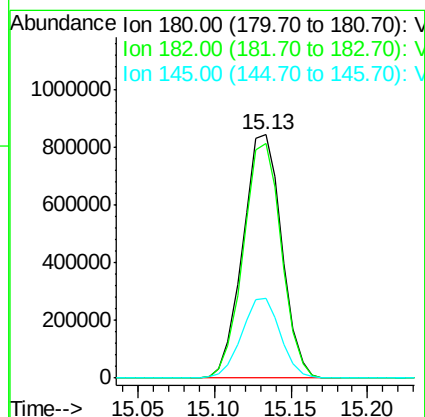
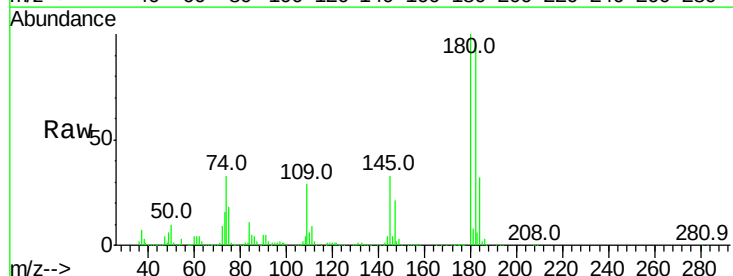
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10003

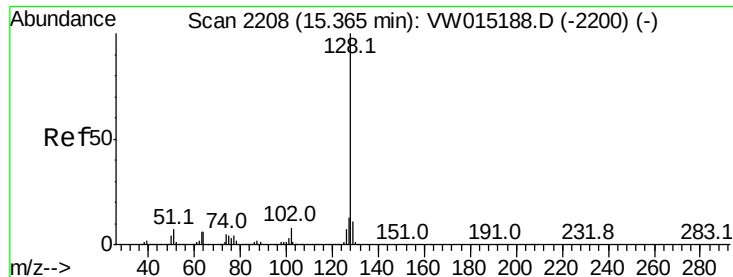
Tgt Ion:180 Resp: 1786944  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 78.0 117.0  
 184 30.0 24.1 36.1  
 145 32.3 25.5 38.3



#68  
 1,2,4-trichlorobenzene  
 Concen: 100.813 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW015190.D  
 Acq: 14 Apr 2020 13:05

Tgt Ion:180 Resp: 1491882  
 Ion Ratio Lower Upper  
 180 100  
 182 94.6 74.6 111.8  
 145 32.5 25.4 38.2





#69

Naphthalene

Concen: 103.097 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10003

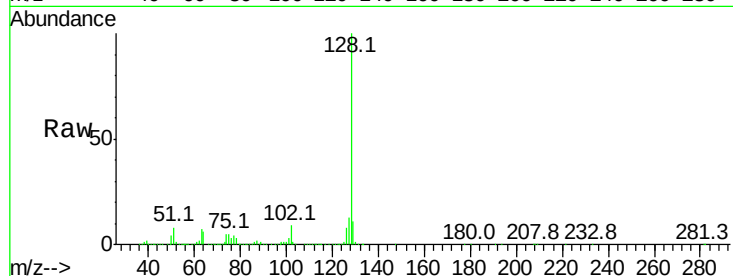
Tgt Ion:128 Resp: 3056525

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

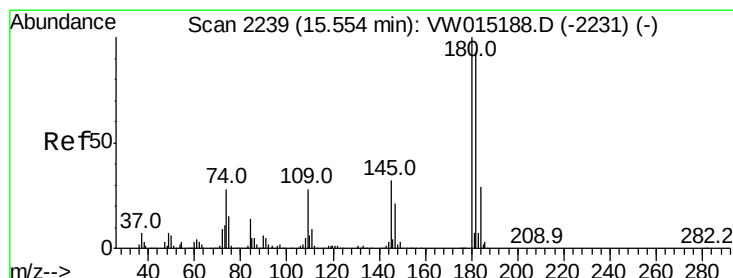
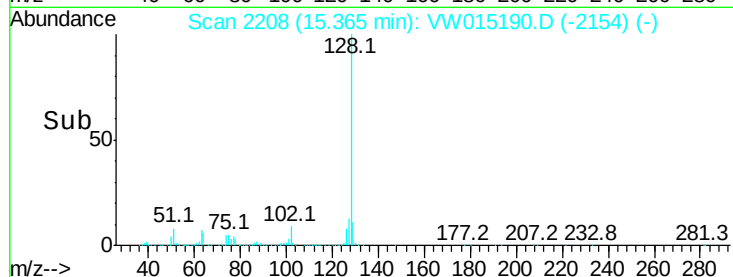
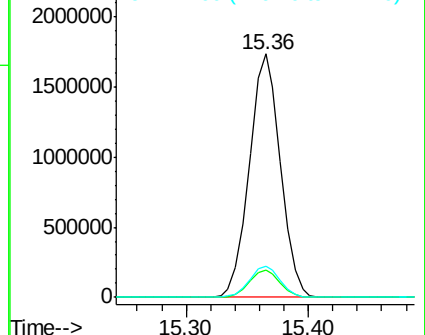
127 13.0 10.2 15.2



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: 98.053 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW015190.D

Acq: 14 Apr 2020 13:05

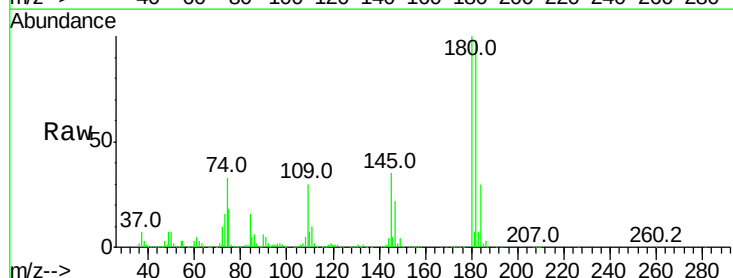
Tgt Ion:180 Resp: 1263362

Ion Ratio Lower Upper

180 100

182 94.9 75.6 113.4

145 35.5 27.4 41.0



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

