

Data File : VW014477.D  
Acq On : 27 Dec 2019 19:28  
Operator : SY/VA  
Sample : VSTD025  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02504

Quant Time: Dec 27 20:30:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 27 20:26:43 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1158107  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 1047681  | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 508858   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 373986  | 21.33 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 292009  | 22.39 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 712498  | 23.00 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 180078  | 39.41 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 651651  | 22.10 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 337998  | 21.86 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 1378419 | 22.45 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 411992  | 21.81 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 1256709 | 22.63 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 170627  | 21.53 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 138625  | 36.91 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 303353  | 19.71 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 409466  | 21.06 | ug/L | 0.00 |

#### Target Compounds

|                                |       |     |         |             | Qvalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 264256  | 23.991 ug/L | 98     |
| 3) Chloromethane               | 2.21  | 50  | 250657  | 22.637 ug/L | 98     |
| 5) Vinyl chloride              | 2.36  | 62  | 409907  | 25.002 ug/L | 94     |
| 6) Bromomethane                | 2.78  | 94  | 238672  | 23.600 ug/L | 100    |
| 8) Chloroethane                | 2.92  | 64  | 230095  | 24.565 ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 222757  | 27.445 ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 371384  | 24.313 ug/L | 95     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 371790  | 24.041 ug/L | 96     |
| 13) Acetone                    | 4.12  | 43  | 253167  | 57.458 ug/L | 99     |
| 14) Carbon disulfide           | 4.39  | 76  | 1141636 | 24.069 ug/L | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 175705  | 21.083 ug/L | 98     |
| 16) Methylene chloride         | 4.92  | 84  | 405249  | 22.826 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 467301  | 22.913 ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 383896  | 23.180 ug/L | 93     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 693187  | 23.296 ug/L | 99     |
| 21) 2-Butanone                 | 7.17  | 43  | 291950  | 49.354 ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 404486  | 22.953 ug/L | 95     |
| 23) Bromochloromethane         | 7.51  | 128 | 173895  | 21.452 ug/L | 84     |
| 25) Chloroform                 | 7.67  | 83  | 663215  | 22.937 ug/L | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 423114  | 22.346 ug/L | 97     |
| 30) Cyclohexane                | 7.95  | 56  | 683341  | 26.131 ug/L | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 526398  | 25.018 ug/L | 98     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 491824  | 24.635 ug/L | 99     |
| 34) Benzene                    | 8.32  | 78  | 1565736 | 23.603 ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 400582  | 23.601 ug/L | 95     |
| 36) Methylcyclohexane          | 9.34  | 83  | 721875  | 25.310 ug/L | 97     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 392036  | 23.004 ug/L | 99     |
| 41) Bromodichloromethane       | 9.64  | 83  | 467889  | 22.591 ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 596111  | 23.357 ug/L | 97     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 480637  | 42.769 ug/L | 99     |

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ClientSampleId :  
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Quant Title : VOC Analysis  
QLast Update : Fri Dec 27 20:26:43 2019  
Response via : Initial Calibration

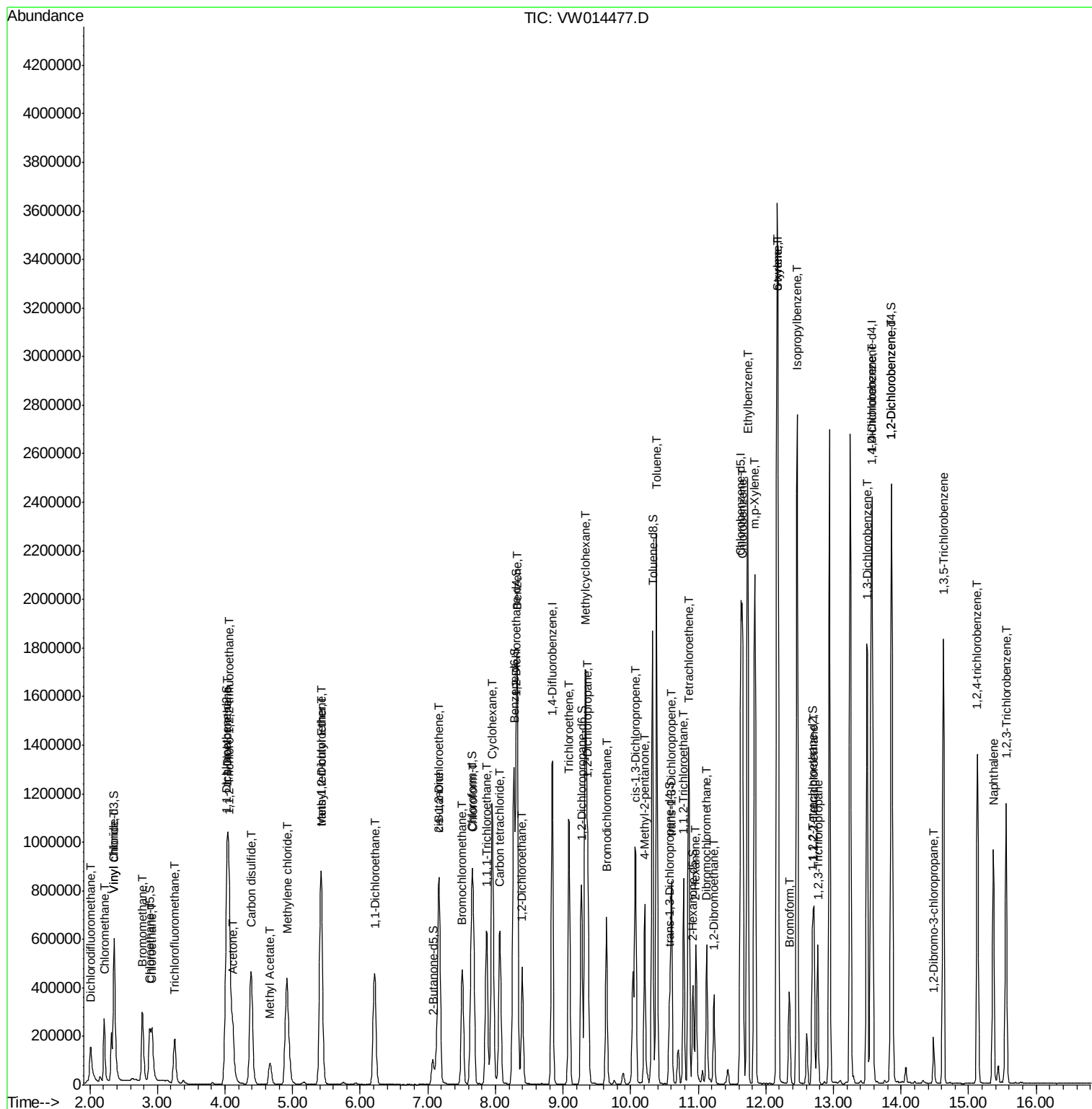
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Toluene                    | 10.38 | 91   | 1661004  | 23.883 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 472104   | 22.852 | ug/L   | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 273179   | 21.391 | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 335264   | 23.699 | ug/L   | 97       |
| 49) 2-Hexanone                 | 10.96 | 43   | 374211   | 46.772 | ug/L   | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 312956   | 21.835 | ug/L   | 94       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 256066   | 21.169 | ug/L # | 100      |
| 52) Chlorobenzene              | 11.65 | 112  | 1018127  | 22.651 | ug/L   | 93       |
| 53) Ethylbenzene               | 11.73 | 91   | 1826706  | 24.206 | ug/L   | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 690477   | 23.786 | ug/L   | 97       |
| 55) o-xylene                   | 12.16 | 106  | 656519   | 23.844 | ug/L   | 100      |
| 56) Styrene                    | 12.18 | 104  | 1120440  | 23.787 | ug/L   | 96       |
| 57) Isopropylbenzene           | 12.46 | 105  | 1773219  | 24.807 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 324128   | 20.449 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 244287   | 20.741 | ug/L   | 99       |
| 62) Bromoform                  | 12.35 | 173  | 179375   | 20.769 | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 792565   | 23.173 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 796558   | 22.923 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 713522   | 22.434 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 49607    | 20.218 | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 604292   | 24.557 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 467706   | 24.381 | ug/L   | 99       |
| 69) Naphthalene                | 15.36 | 128  | 824158   | 22.846 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 416502   | 23.153 | ug/L   | 98       |

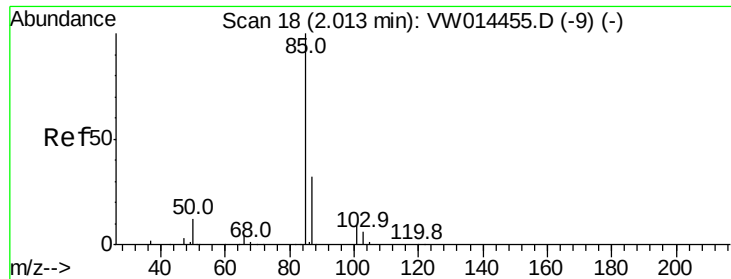
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.991 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

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Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

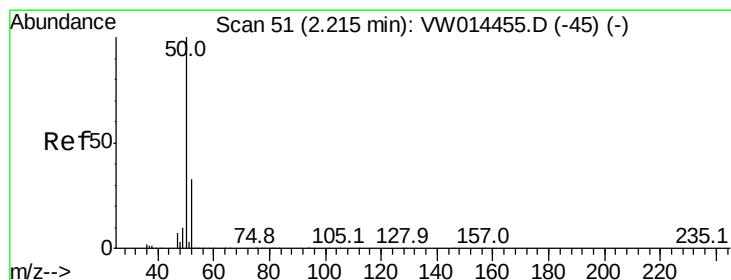
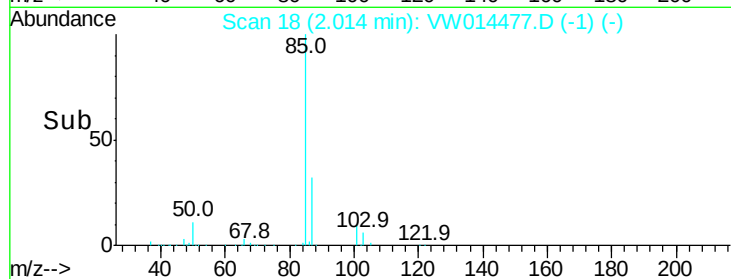
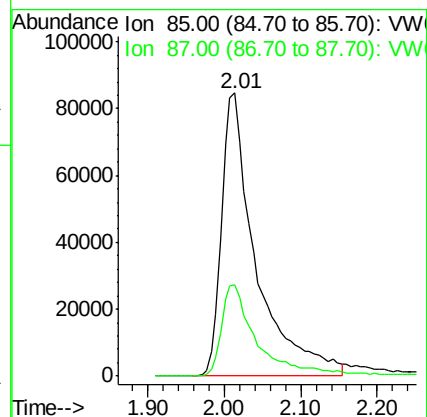
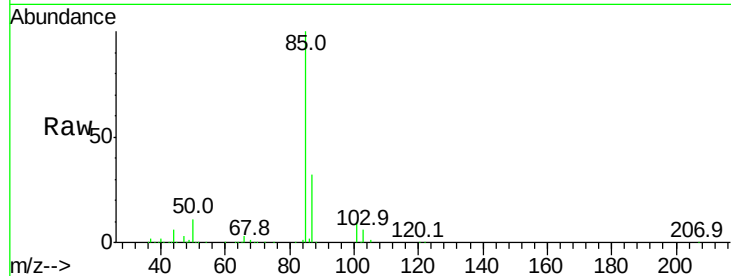
VSTD02504

Tgt Ion: 85 Resp: 264256

Ion Ratio Lower Upper

85 100

87 30.7 22.1 41.1



#3

Chloromethane

Concen: 22.637 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014477.D

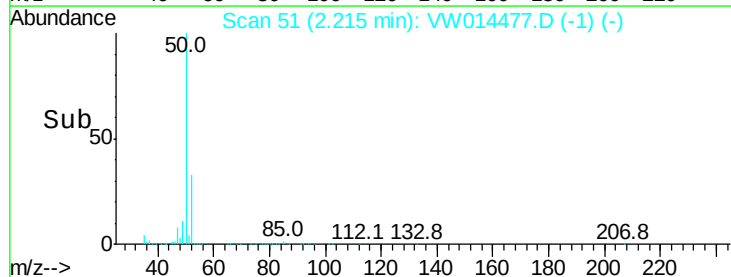
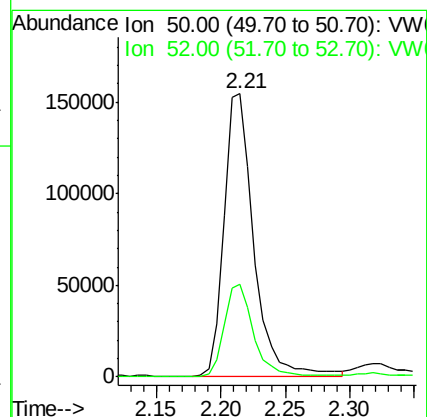
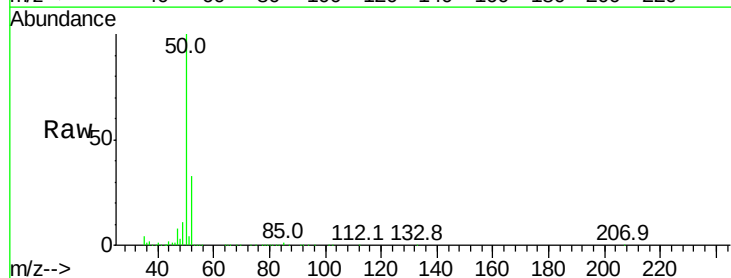
Acq: 27 Dec 2019 19:28

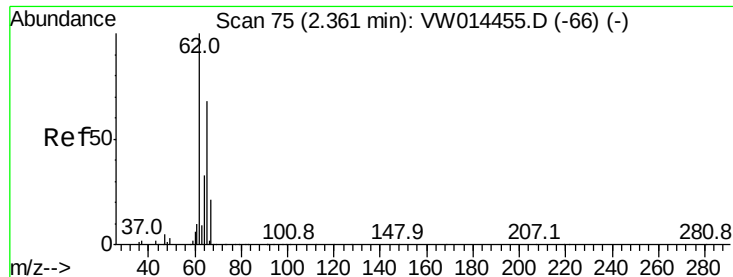
Tgt Ion: 50 Resp: 250657

Ion Ratio Lower Upper

50 100

52 32.9 23.8 44.2





#5

Vinyl chloride

Concen: 25.002 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

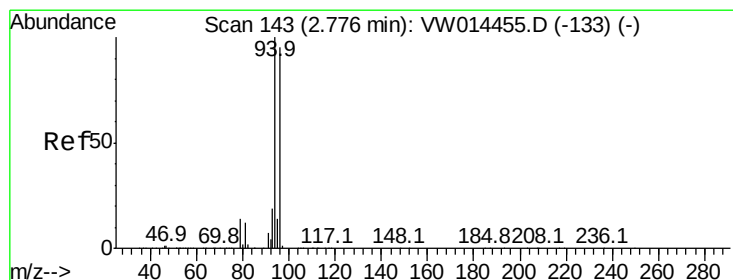
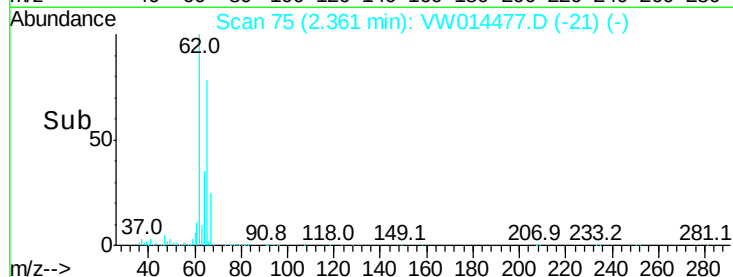
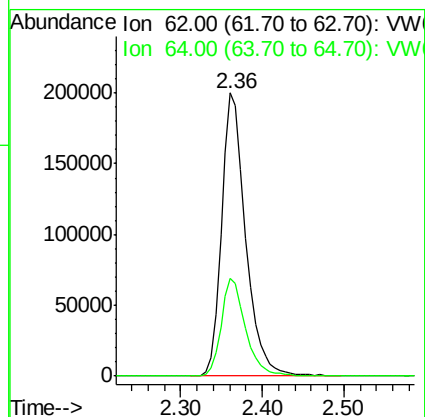
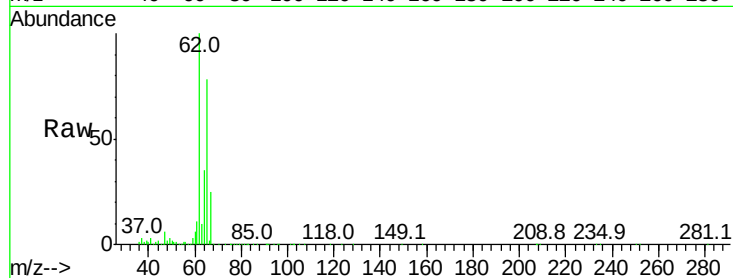
VSTD02504

Tgt Ion: 62 Resp: 409907

Ion Ratio Lower Upper

62 100

64 34.5 21.8 40.4



#6

Bromomethane

Concen: 23.600 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014477.D

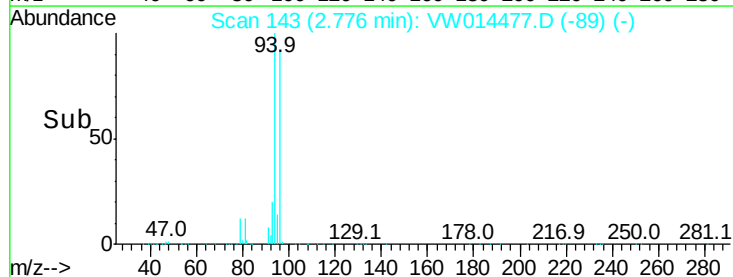
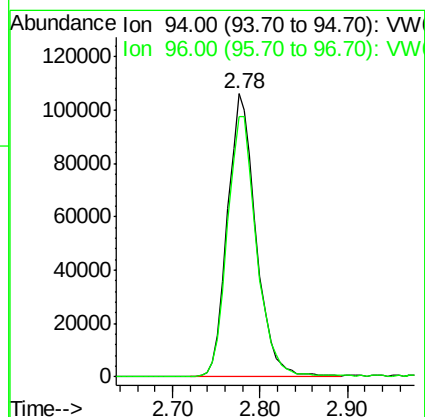
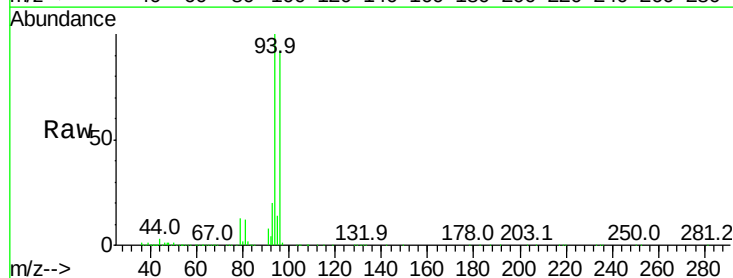
Acq: 27 Dec 2019 19:28

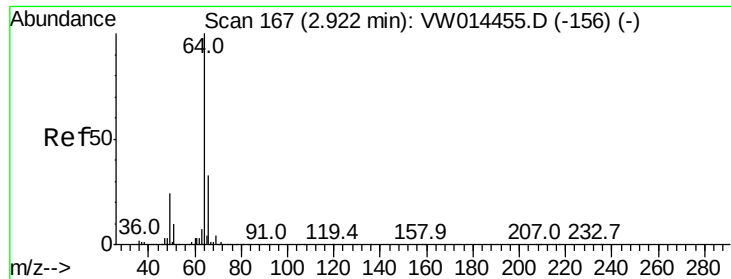
Tgt Ion: 94 Resp: 238672

Ion Ratio Lower Upper

94 100

96 94.1 9.4 178.8





#8

Chloroethane

Concen: 24.565 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

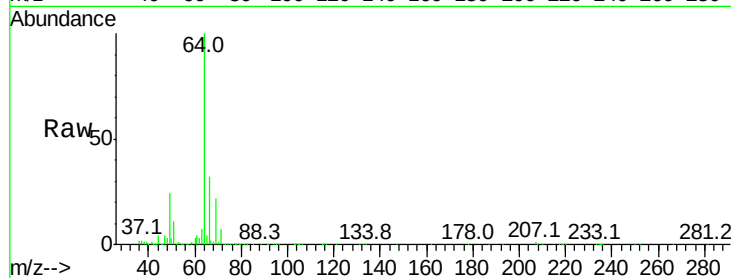
VSTD02504

Tgt Ion: 64 Resp: 230095

Ion Ratio Lower Upper

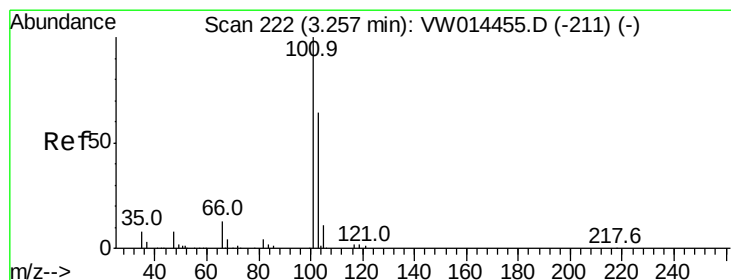
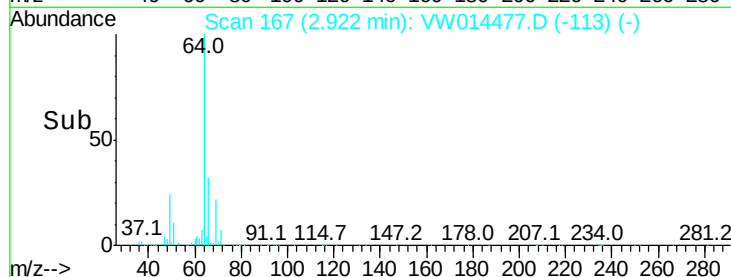
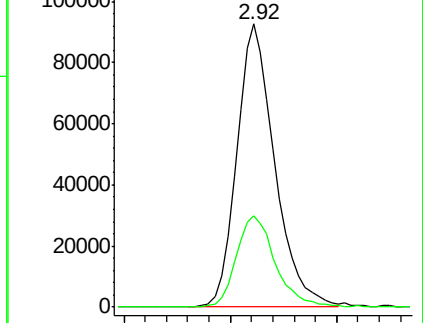
64 100

66 32.1 21.2 39.4



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 27.445 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014477.D

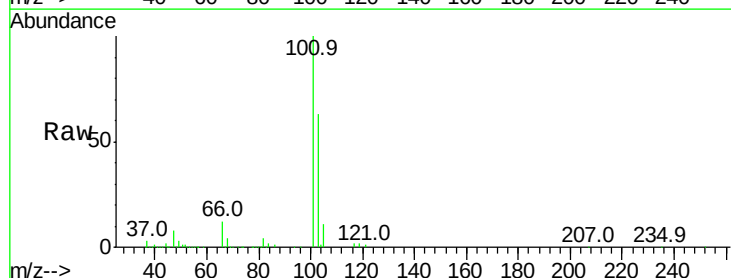
Acq: 27 Dec 2019 19:28

Tgt Ion: 101 Resp: 222757

Ion Ratio Lower Upper

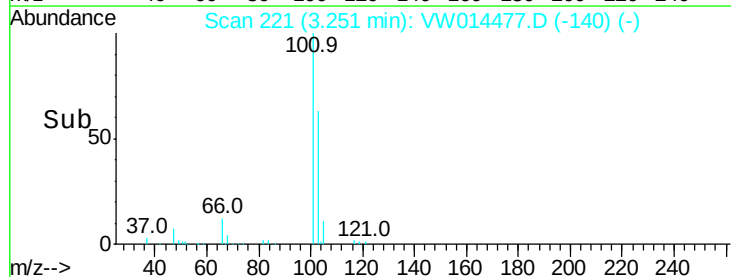
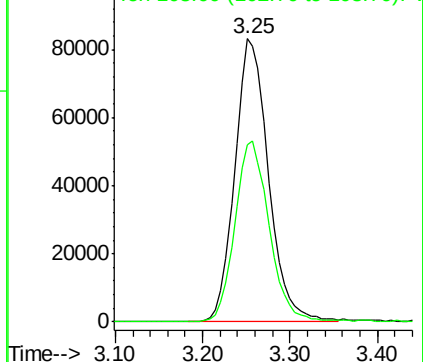
101 100

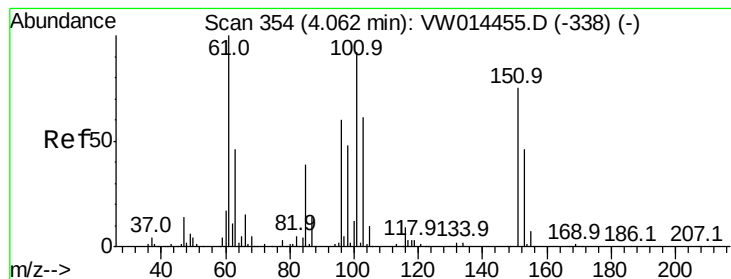
103 65.0 45.4 84.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 24.313 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014477.D

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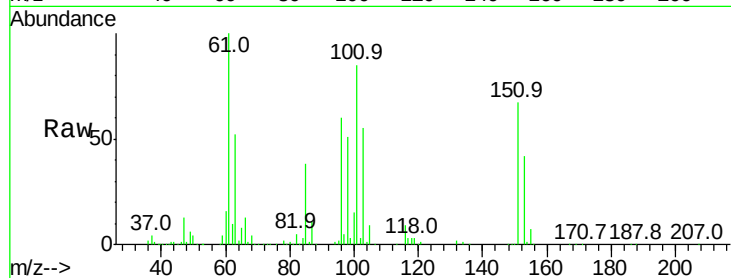
Tgt Ion: 101 Resp: 371384

Ion Ratio Lower Upper

101 100

85 41.6 31.4 47.2

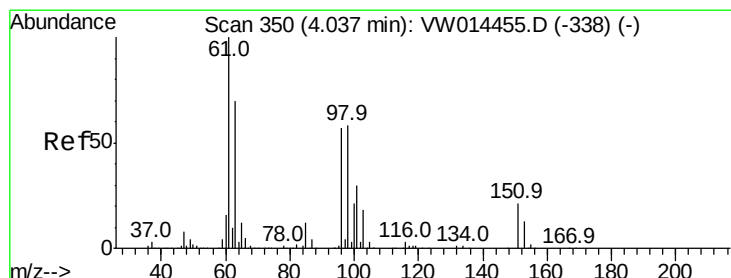
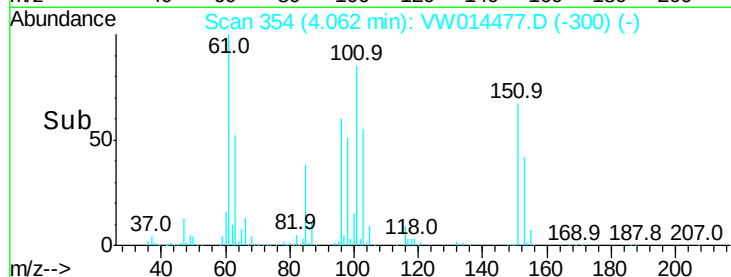
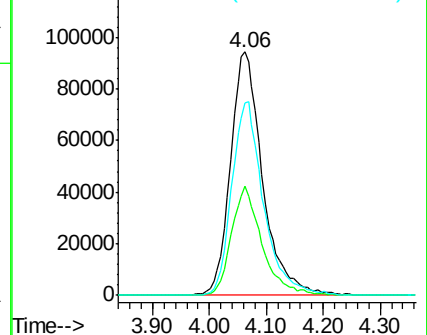
151 78.1 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.041 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

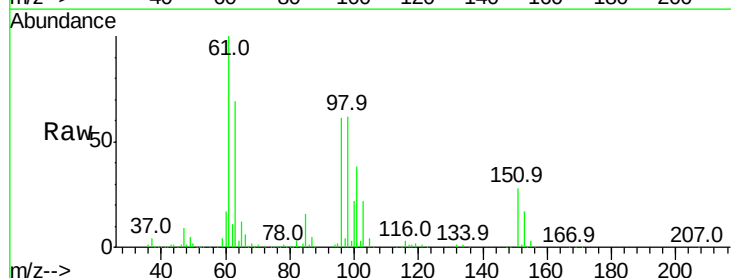
Tgt Ion: 96 Resp: 371790

Ion Ratio Lower Upper

96 100

61 163.1 109.8 204.0

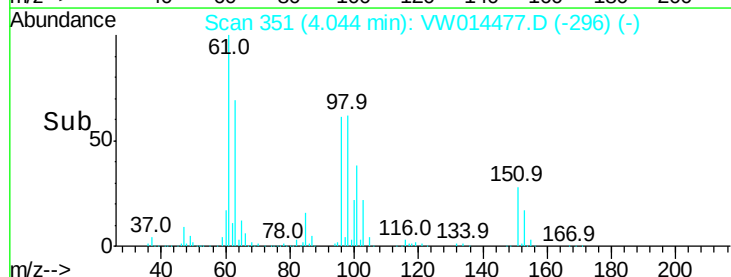
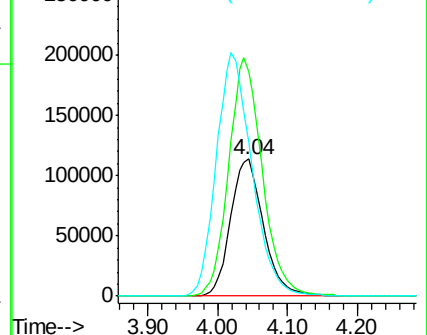
63 112.3 80.7 149.9

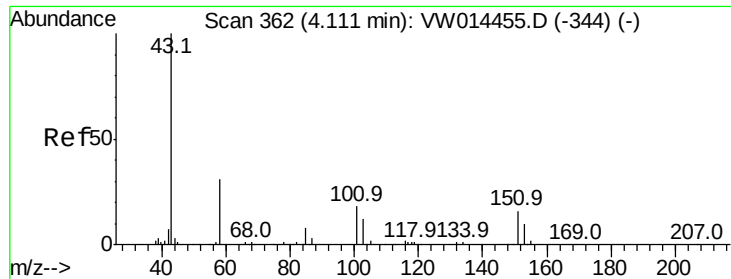


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

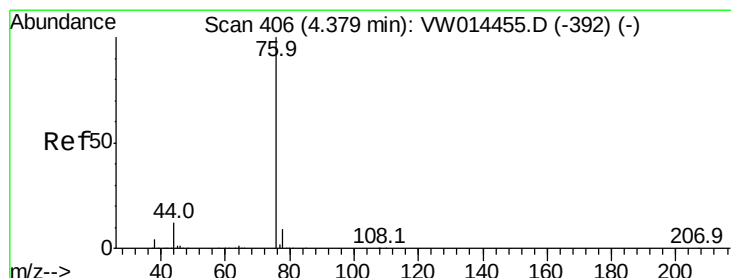
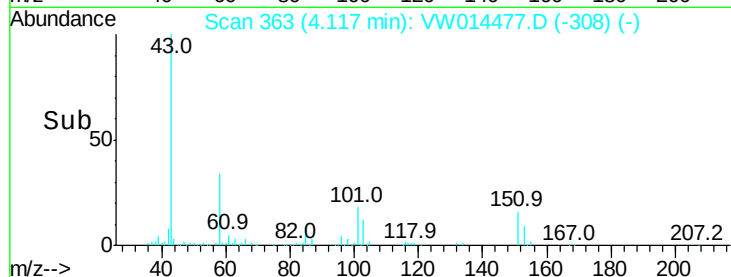
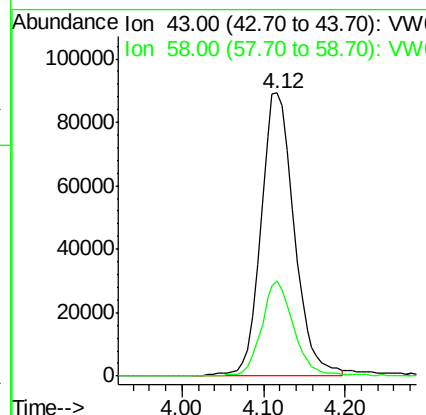
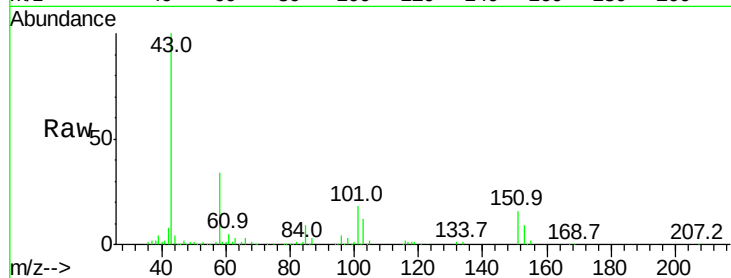




#13  
 Acetone  
 Concen: 57.458 ug/L  
 RT: 4.12 min Scan# 363  
 Delta R.T. 0.01 min  
 Lab File: VW014477.D  
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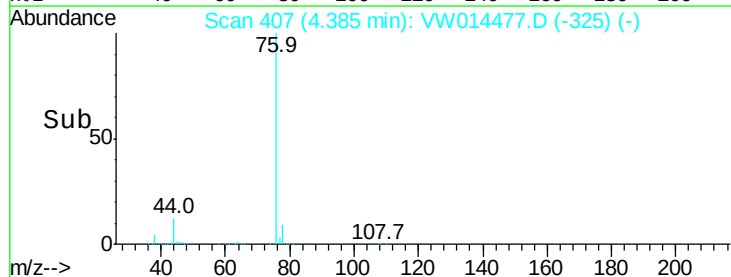
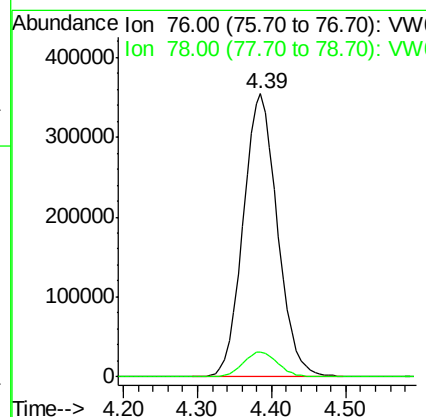
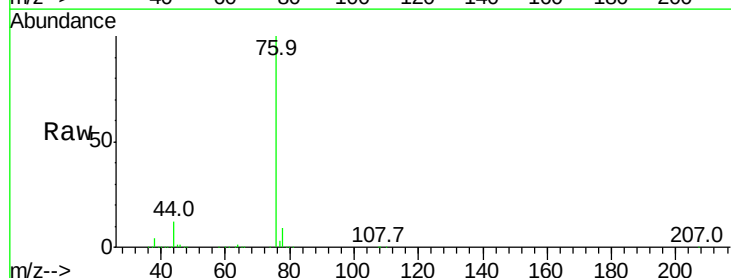
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

Tgt Ion: 43 Resp: 253167  
 Ion Ratio Lower Upper  
 43 100  
 58 32.0 0.0 65.4

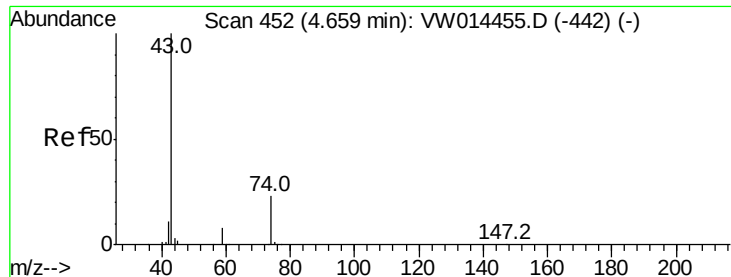


#14  
 Carbon disulfide  
 Concen: 24.069 ug/L  
 RT: 4.39 min Scan# 407  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

Tgt Ion: 76 Resp: 1141636  
 Ion Ratio Lower Upper  
 76 100  
 78 8.6 7.2 10.8



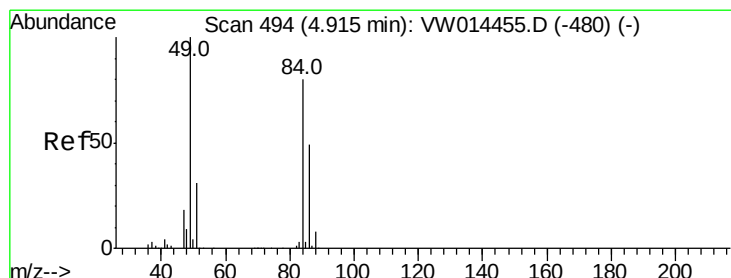
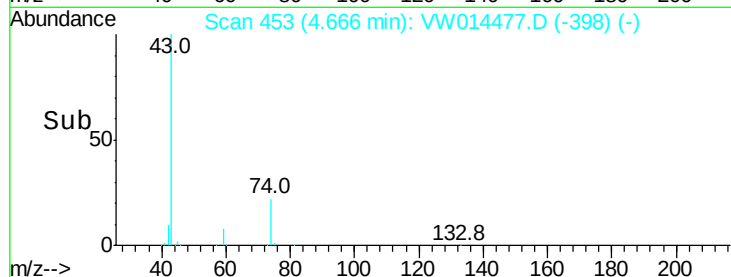
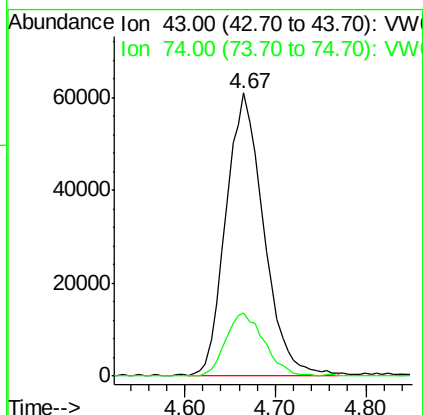
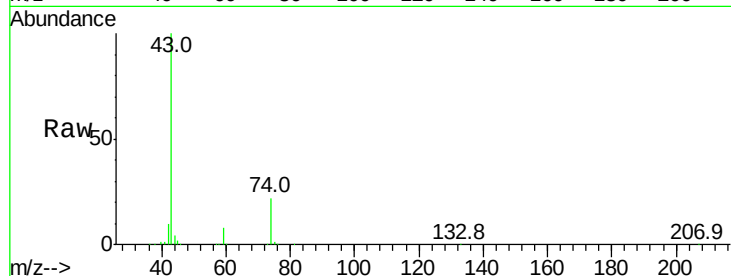




#15  
Methyl Acetate  
Concen: 21.083 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. 0.01 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

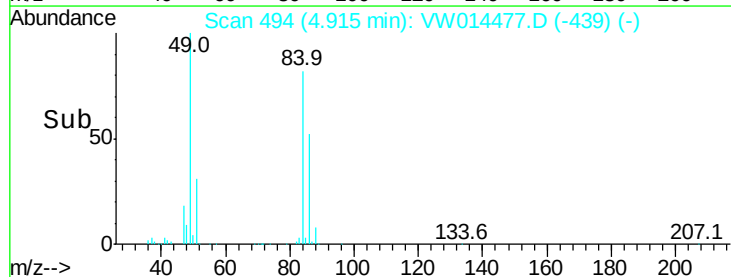
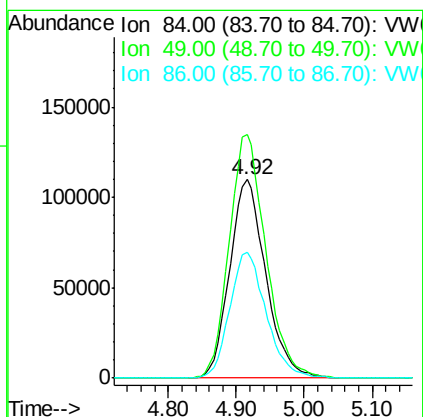
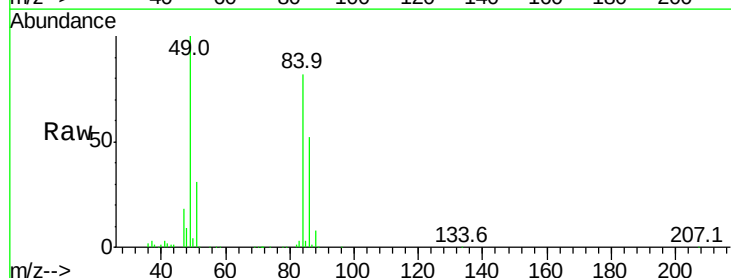
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02504

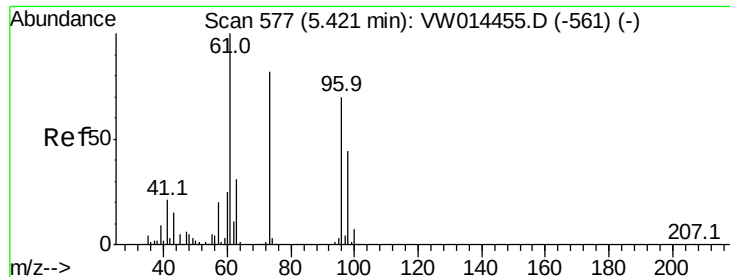
Tgt Ion: 43 Resp: 175705  
Ion Ratio Lower Upper  
43 100  
74 22.9 19.3 28.9



#16  
Methylene chloride  
Concen: 22.826 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

Tgt Ion: 84 Resp: 405249  
Ion Ratio Lower Upper  
84 100  
49 122.6 84.2 156.4  
86 63.6 43.7 81.1

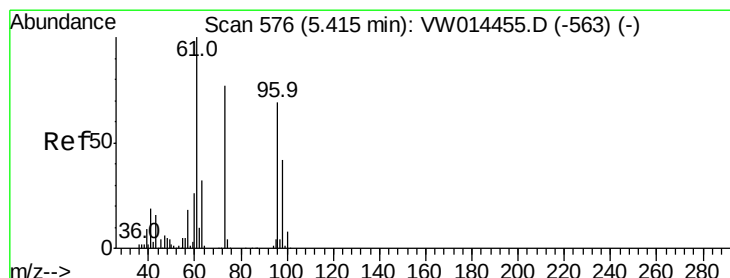
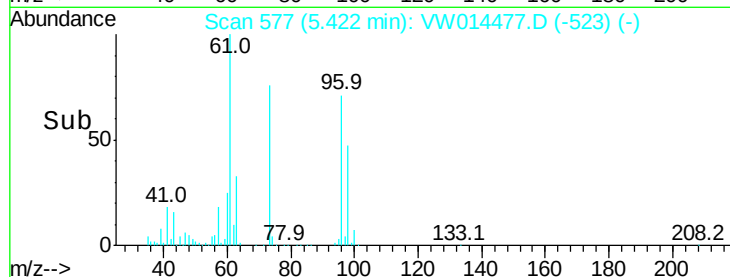
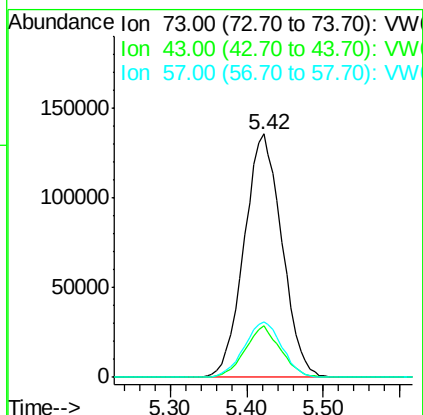
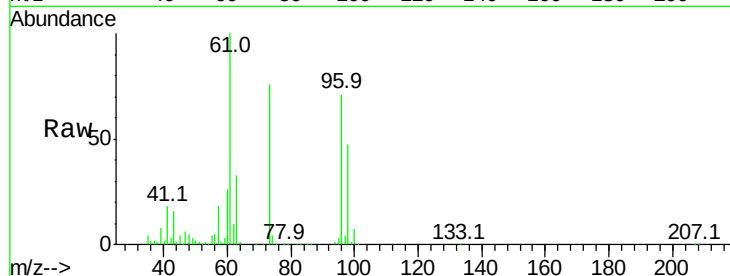




#17  
Methyl tert-butyl Ether  
Concen: 22.913 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

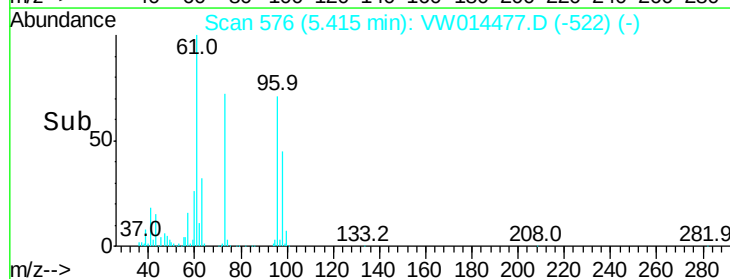
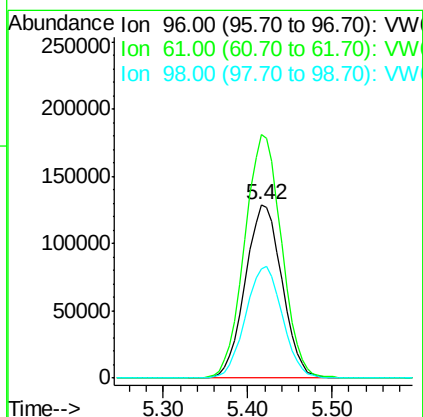
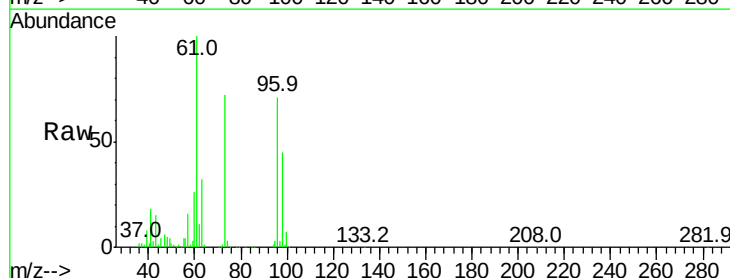
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02504

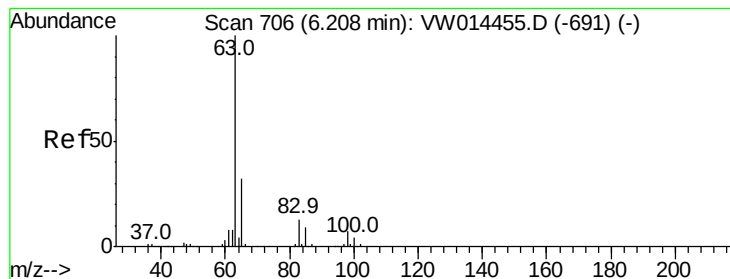
Tgt Ion: 73 Resp: 467301  
Ion Ratio Lower Upper  
73 100  
43 19.6 15.5 23.3  
57 22.9 18.2 27.4



#18  
trans-1,2-Dichloroethene  
Concen: 23.180 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

Tgt Ion: 96 Resp: 383896  
Ion Ratio Lower Upper  
96 100  
61 140.3 90.6 168.2  
98 63.0 42.9 79.7





#19

1,1-Dichloroethane

Concen: 23.296 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02504

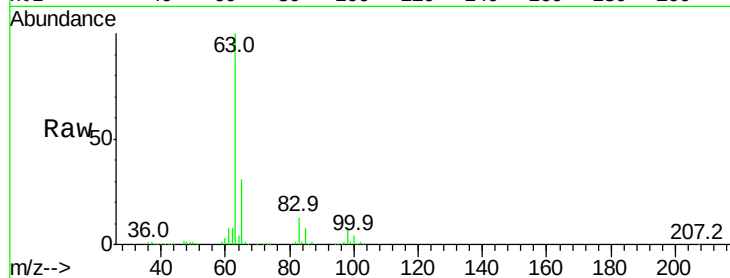
Tgt Ion: 63 Resp: 693187

Ion Ratio Lower Upper

63 100

65 31.0 22.1 41.1

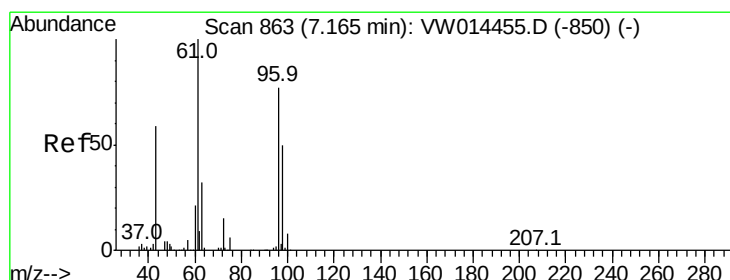
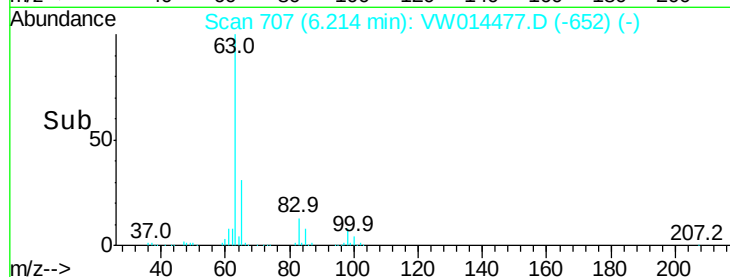
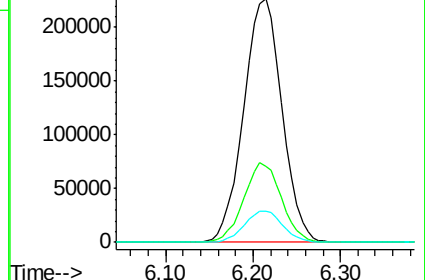
83 12.9 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 49.354 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014477.D

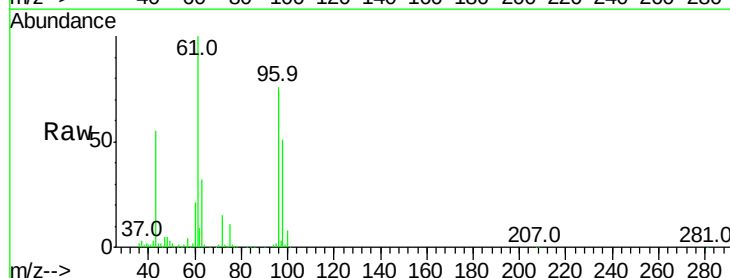
Acq: 27 Dec 2019 19:28

Tgt Ion: 43 Resp: 291950

Ion Ratio Lower Upper

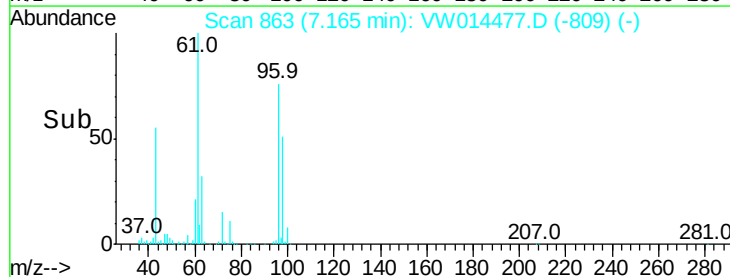
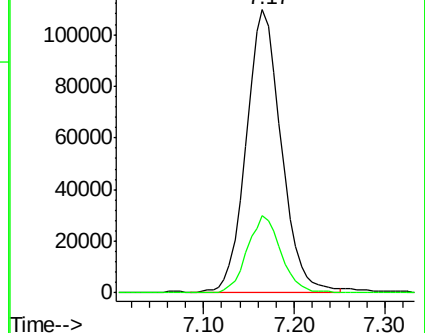
43 100

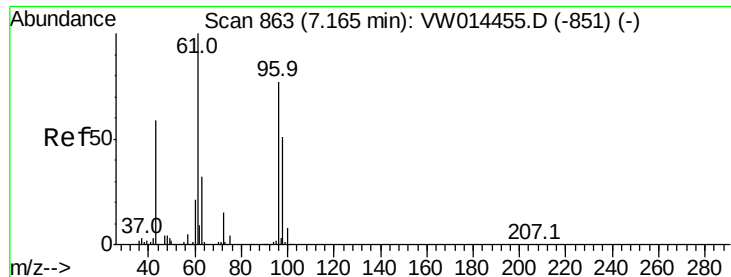
72 26.5 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 22.953 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampled :

VSTD02504

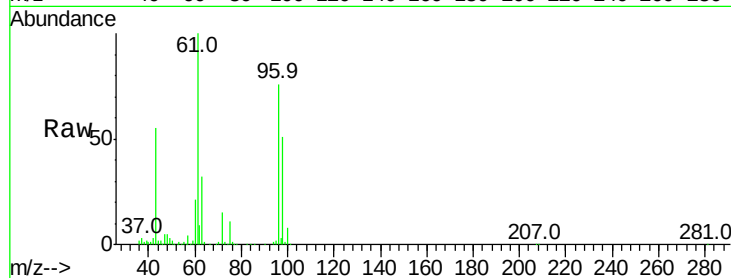
Tgt Ion: 96 Resp: 404486

Ion Ratio Lower Upper

96 100

61 130.7 86.9 161.5

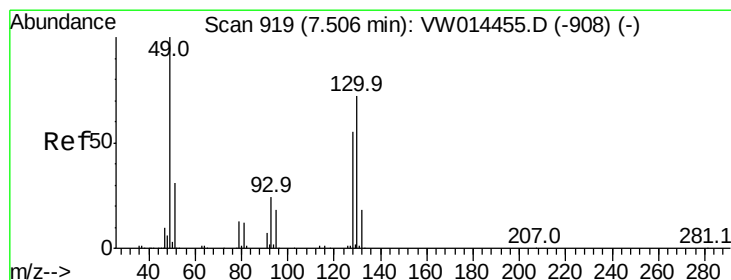
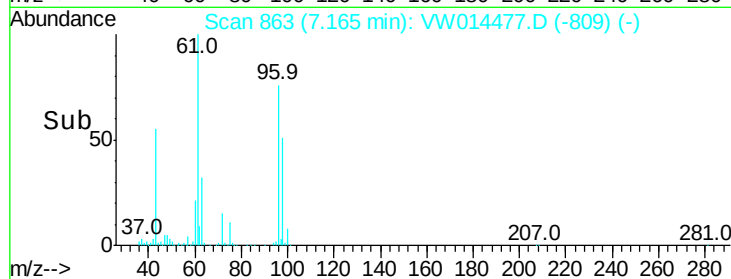
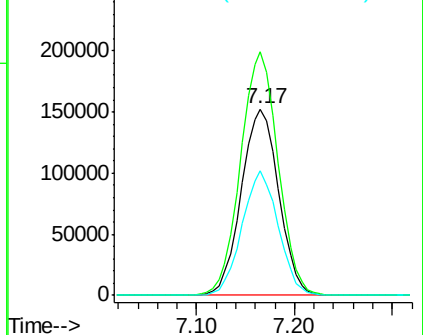
98 67.0 45.5 84.5



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: 21.452 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Tgt Ion: 128 Resp: 173895

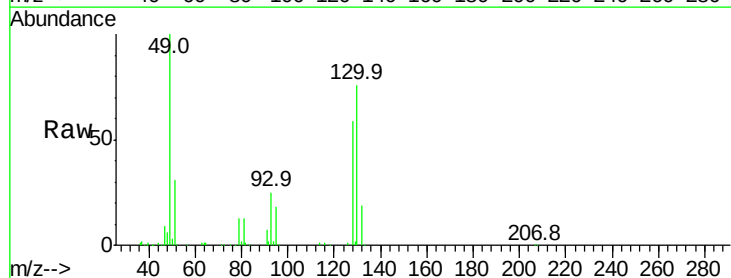
Ion Ratio Lower Upper

128 100

49 169.0 95.1 176.5

130 127.8 85.0 158.0

51 52.6 36.7 55.1

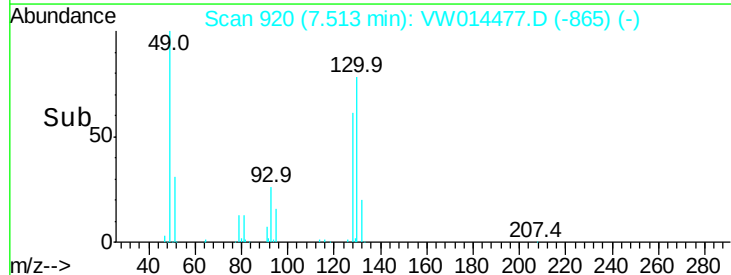
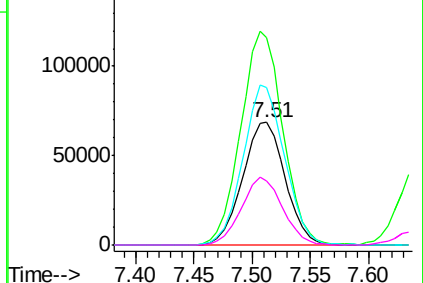


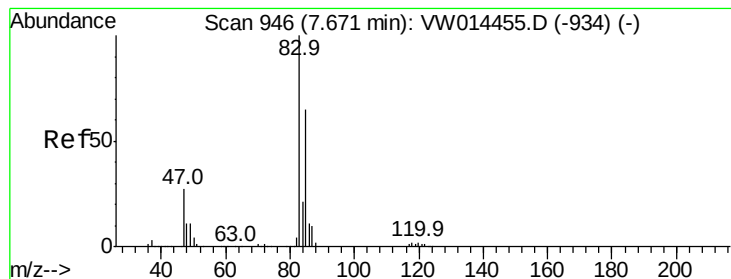
Abundance Ion 128.00 (127.70 to 128.70): V

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: 22.937 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

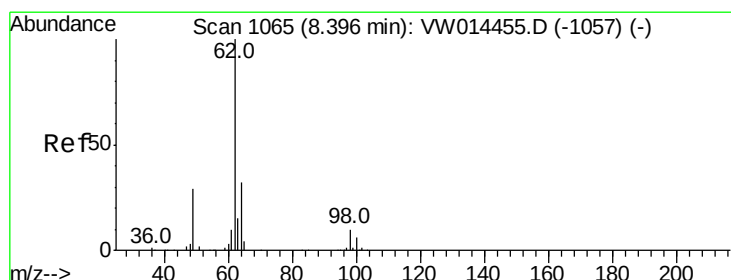
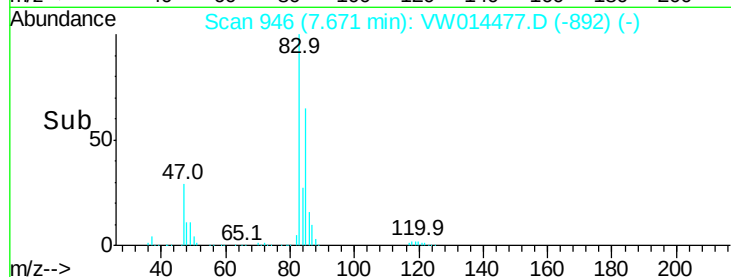
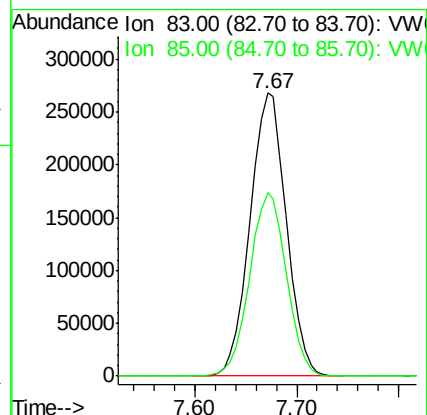
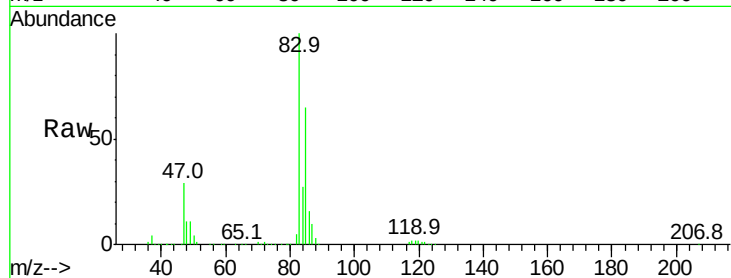
VSTD02504

Tgt Ion: 83 Resp: 663215

Ion Ratio Lower Upper

83 100

85 65.5 46.1 85.7



#27

1,2-Dichloroethane

Concen: 22.346 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014477.D

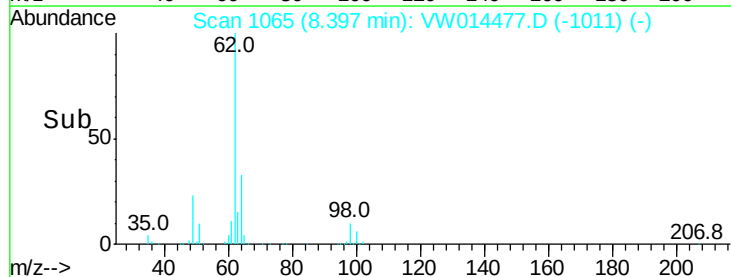
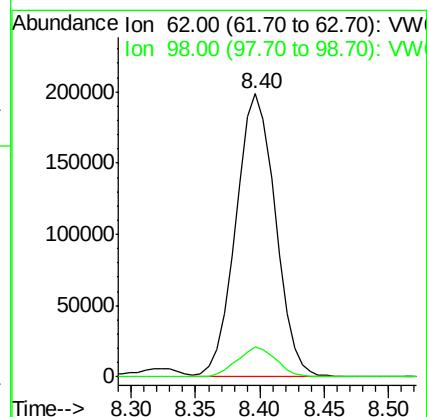
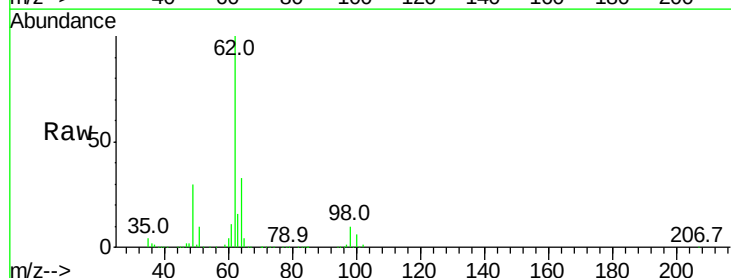
Acq: 27 Dec 2019 19:28

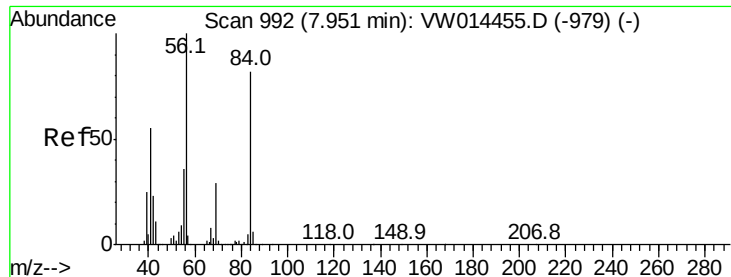
Tgt Ion: 62 Resp: 423114

Ion Ratio Lower Upper

62 100

98 10.4 9.3 13.9





#30

Cyclohexane

Concen: 26.131 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02504

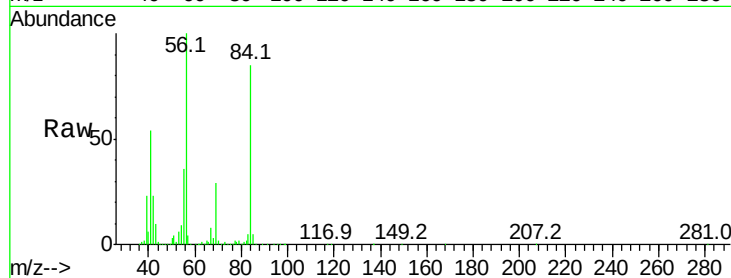
Tgt Ion: 56 Resp: 683341

Ion Ratio Lower Upper

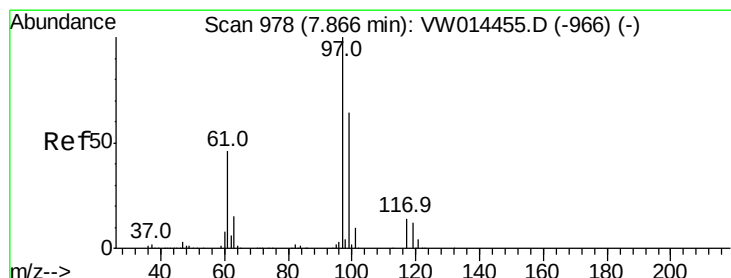
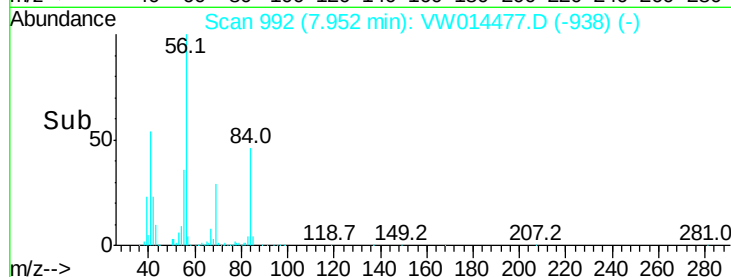
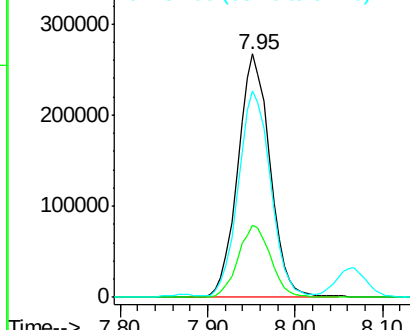
56 100

69 29.8 24.6 37.0

84 85.2 70.2 105.2



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



#31

1,1,1-Trichloroethane

Concen: 25.018 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

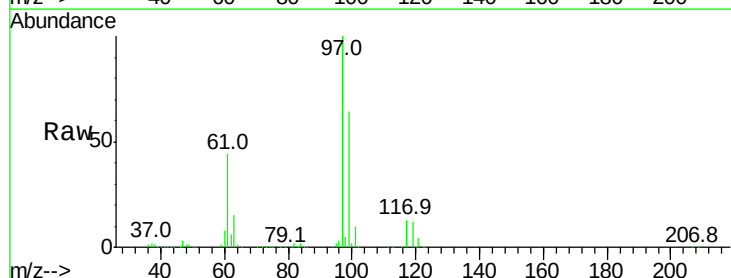
Tgt Ion: 97 Resp: 526398

Ion Ratio Lower Upper

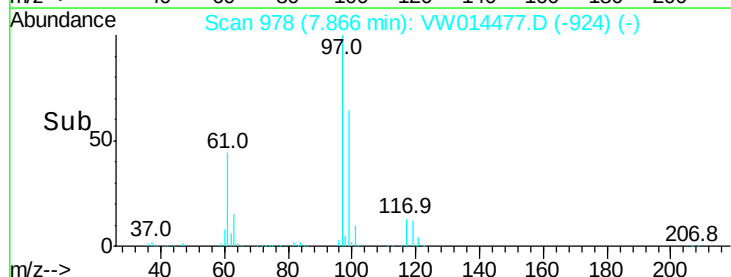
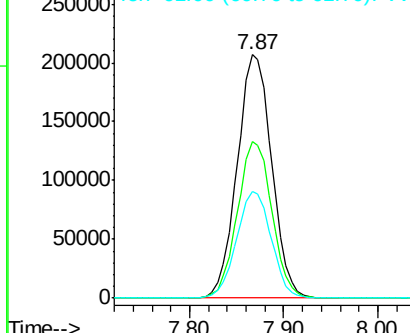
97 100

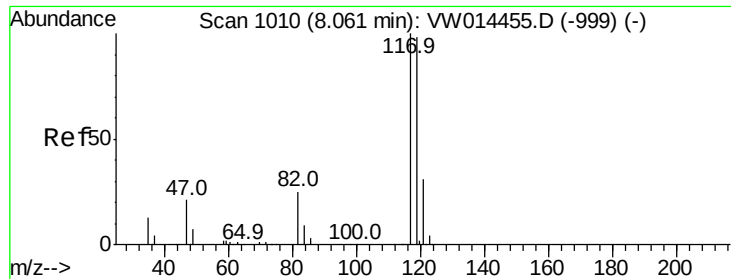
99 64.5 51.1 76.7

61 44.1 32.8 49.2



Abundance Ion 97.00 (96.70 to 97.70): VW  
Ion 99.00 (98.70 to 99.70): VW  
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 24.635 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

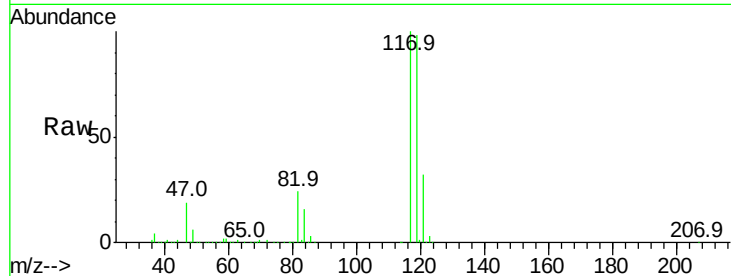
VSTD02504

Tgt Ion:117 Resp: 491824

Ion Ratio Lower Upper

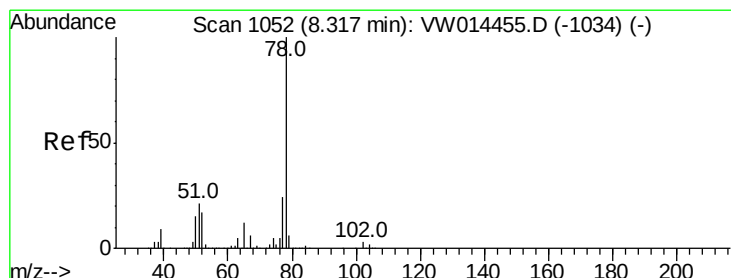
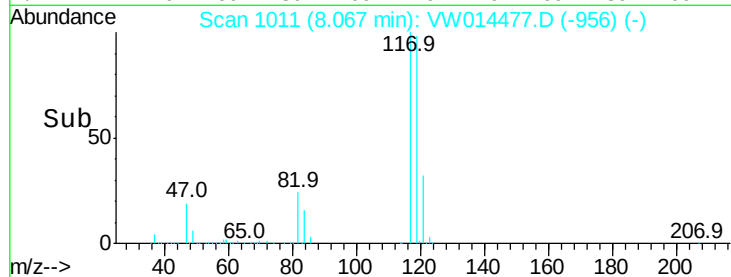
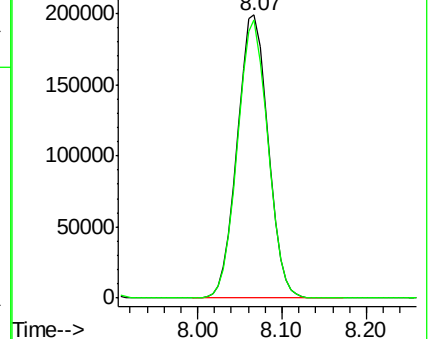
117 100

119 97.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.603 ug/L

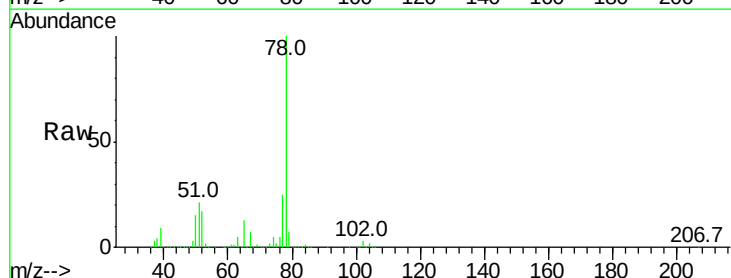
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

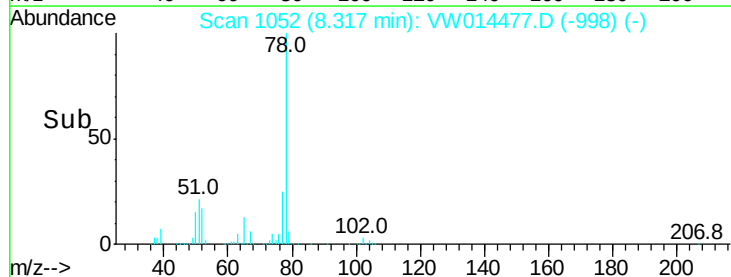
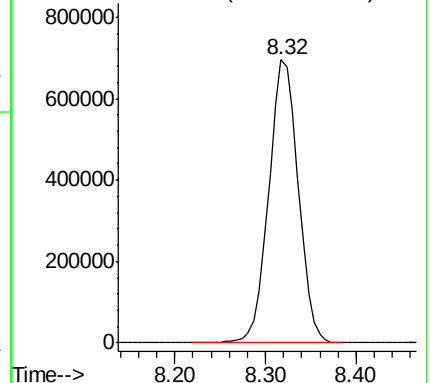
Lab File: VW014477.D

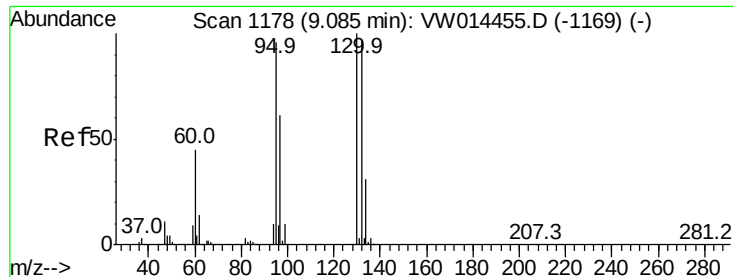
Acq: 27 Dec 2019 19:28

Tgt Ion: 78 Resp: 1565736



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.601 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02504

Tgt Ion: 95 Resp: 400582

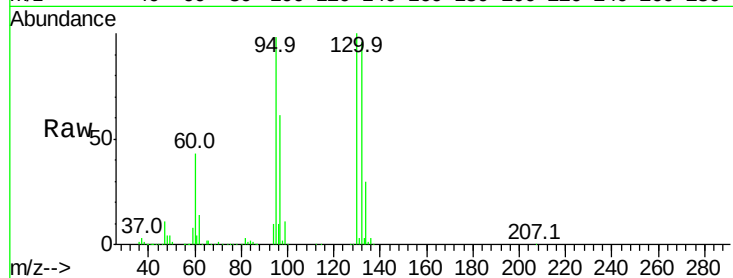
Ion Ratio Lower Upper

95 100

97 63.3 45.1 83.9

132 98.9 73.7 136.9

130 103.3 76.6 142.2

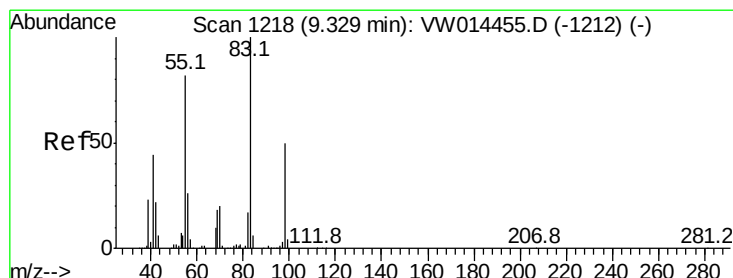
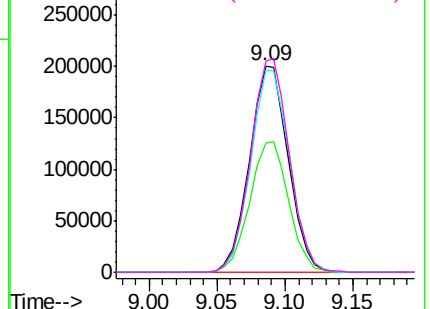
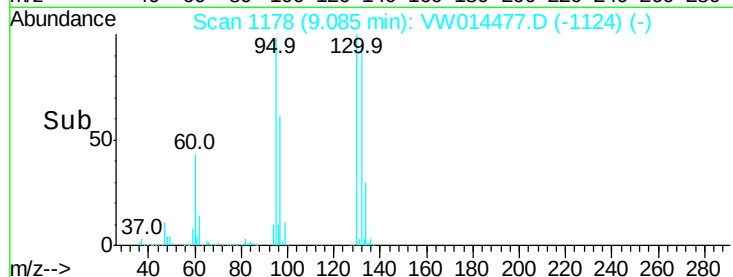


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 25.310 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

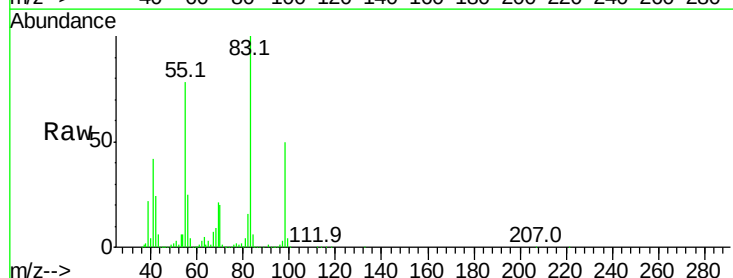
Tgt Ion: 83 Resp: 721875

Ion Ratio Lower Upper

83 100

55 79.6 59.8 89.8

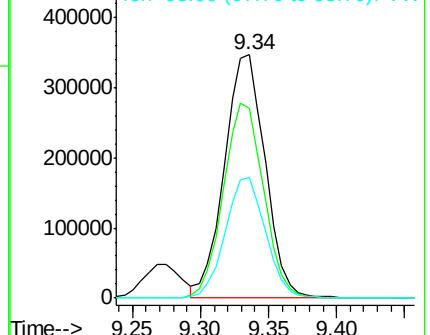
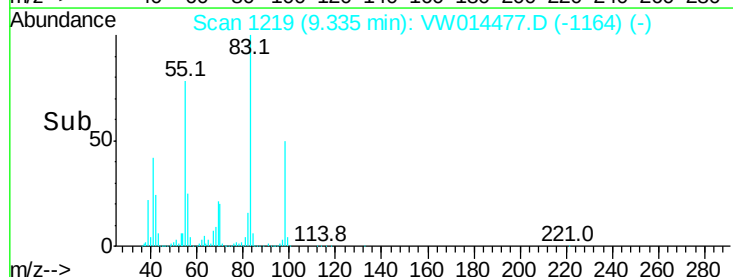
98 49.3 39.5 59.3



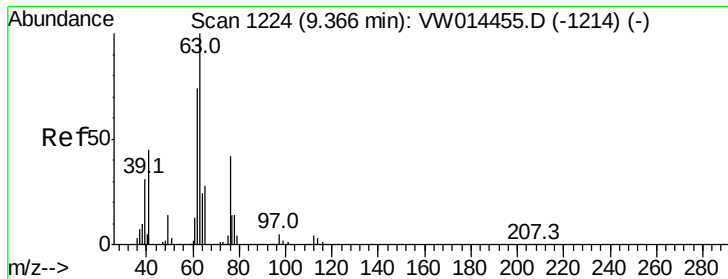
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



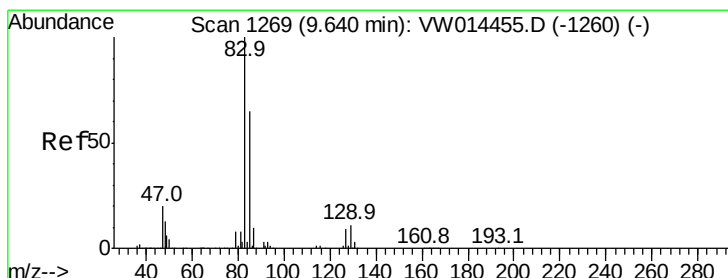
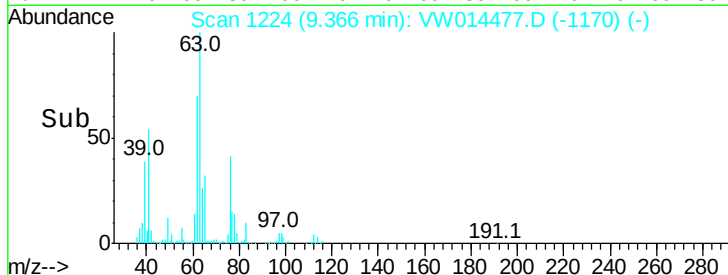
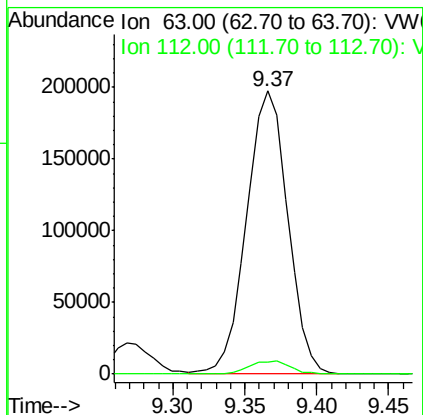
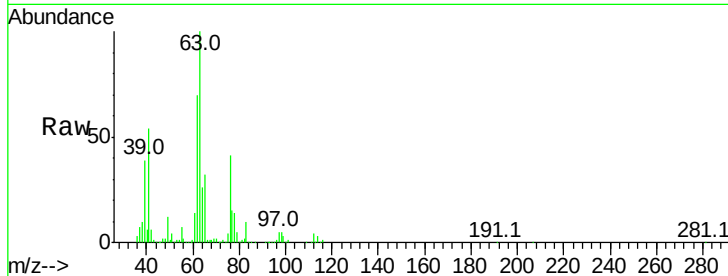




#40  
 1,2-Dichloropropane  
 Concen: 23.004 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

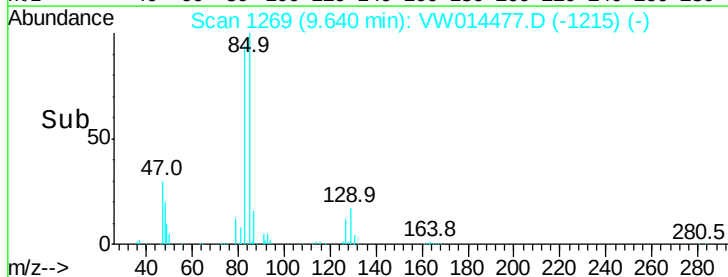
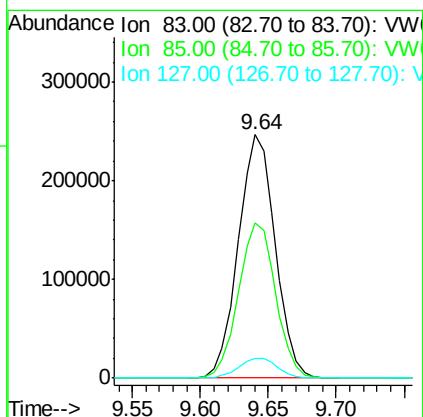
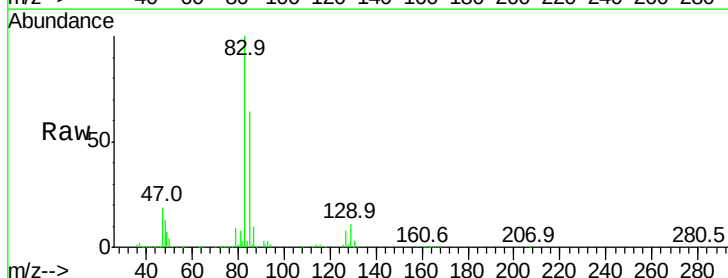
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

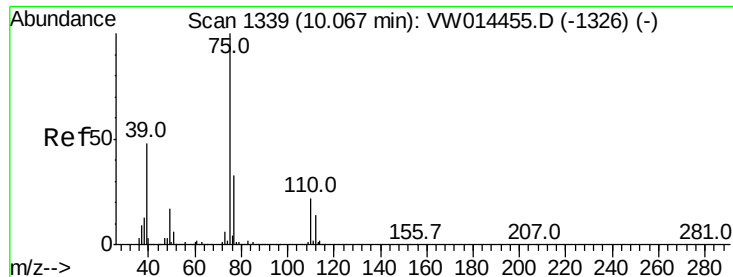
Tgt Ion: 63 Resp: 392036  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.9 5.9



#41  
 Bromodichloromethane  
 Concen: 22.591 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

Tgt Ion: 83 Resp: 467889  
 Ion Ratio Lower Upper  
 83 100  
 85 63.9 45.1 83.7  
 127 7.9 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 23.357 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

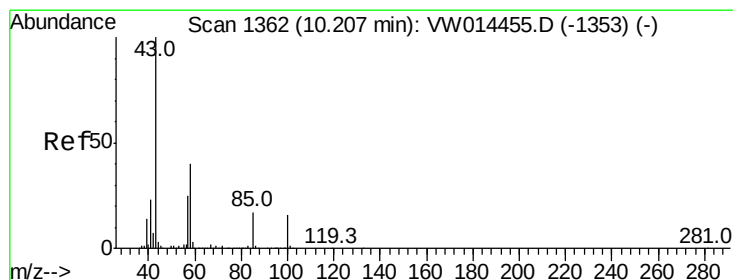
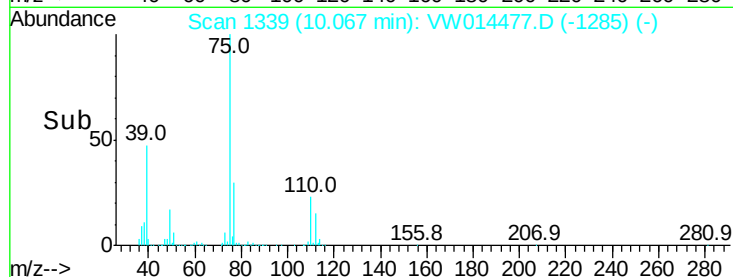
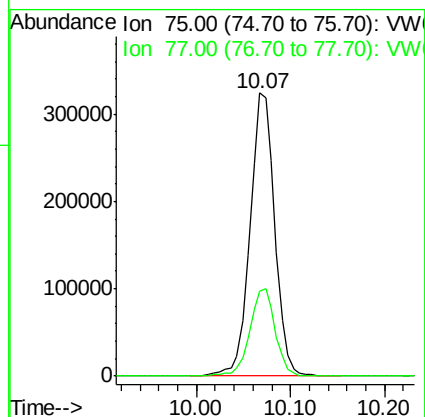
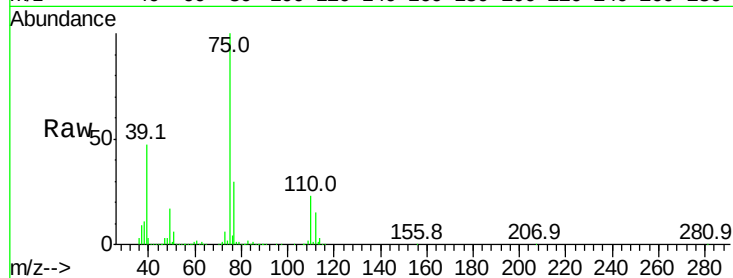
VSTD02504

Tgt Ion: 75 Resp: 596111

Ion Ratio Lower Upper

75 100

77 30.0 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 42.769 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

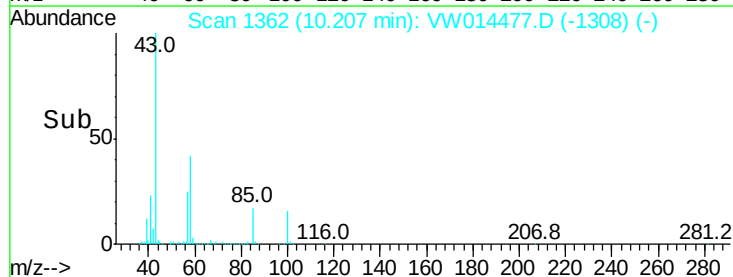
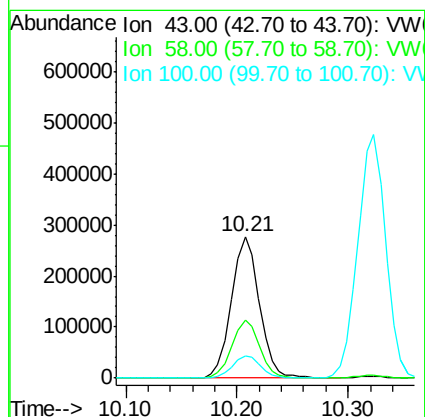
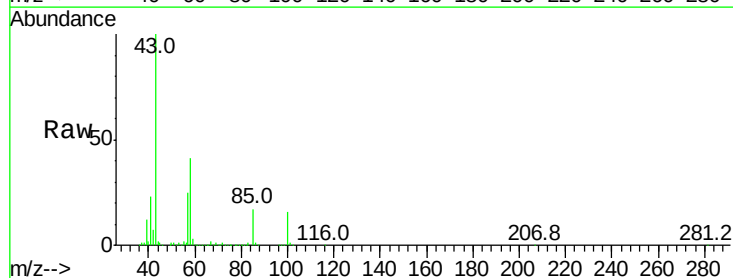
Tgt Ion: 43 Resp: 480637

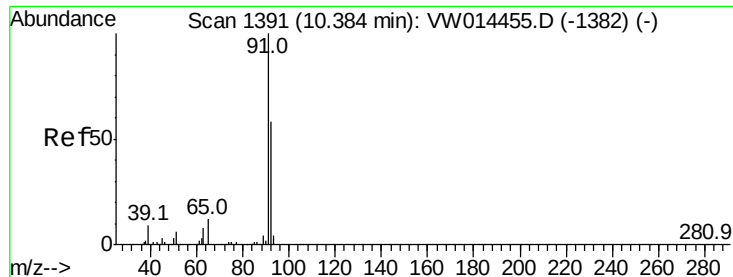
Ion Ratio Lower Upper

43 100

58 40.7 32.6 49.0

100 15.8 13.8 20.8





#44

Toluene

Concen: 23.883 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampled :

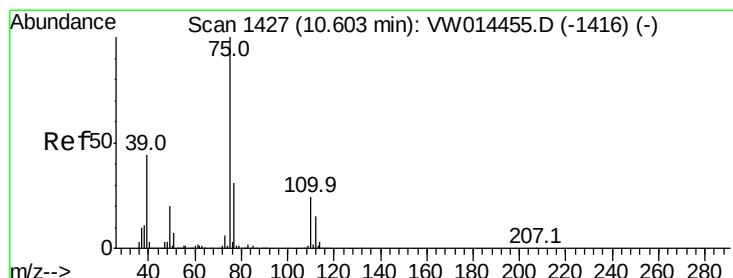
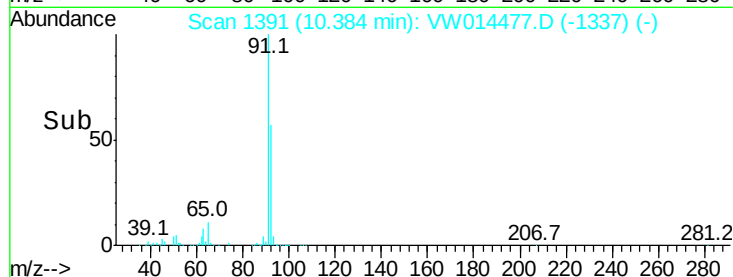
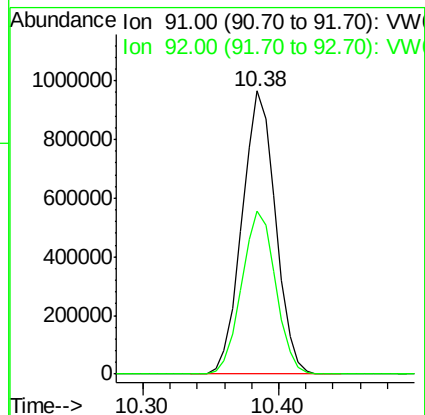
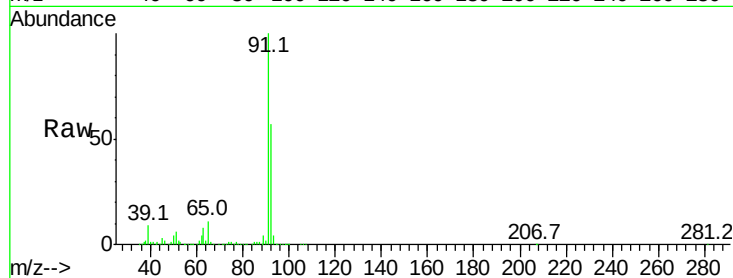
VSTD02504

Tgt Ion: 91 Resp: 1661004

Ion Ratio Lower Upper

91 100

92 57.4 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 22.852 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014477.D

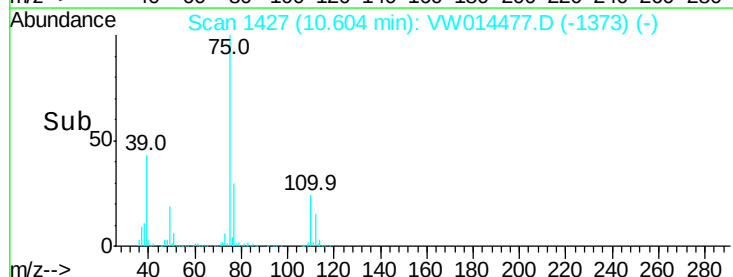
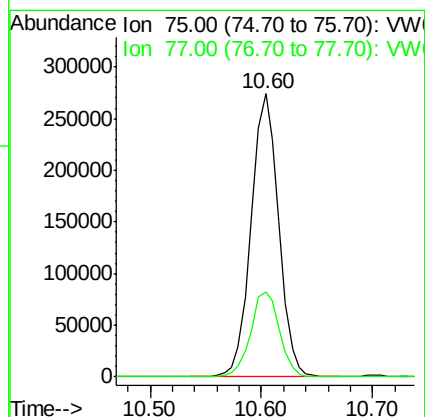
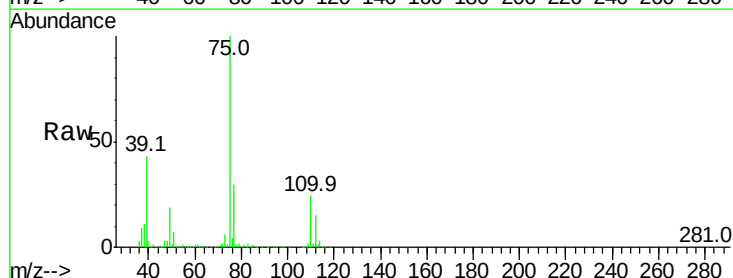
Acq: 27 Dec 2019 19:28

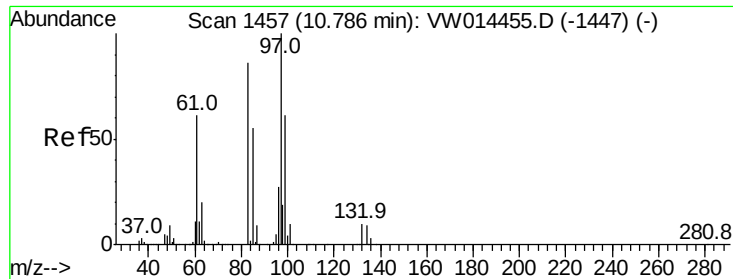
Tgt Ion: 75 Resp: 472104

Ion Ratio Lower Upper

75 100

77 30.2 21.8 40.6

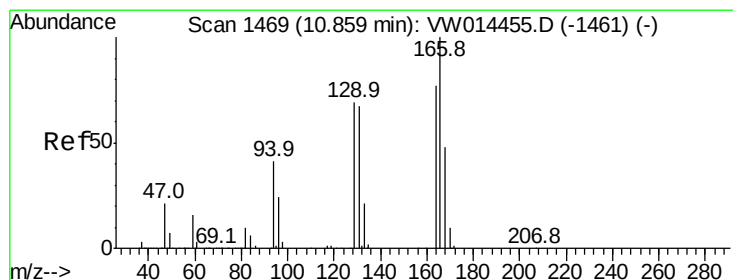
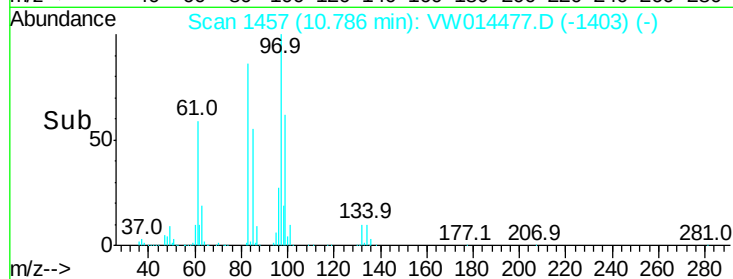
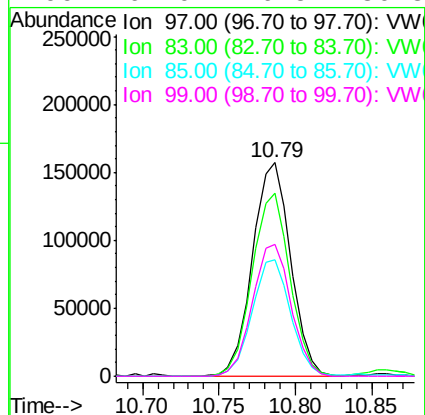
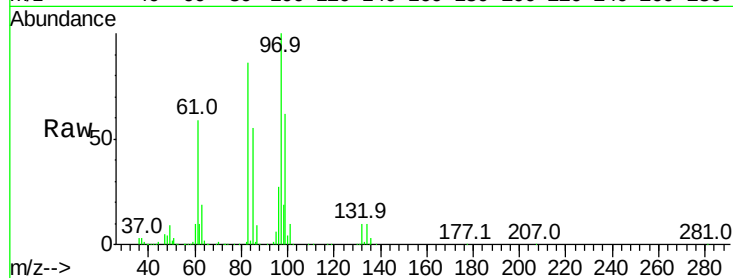




#46  
 1,1,2-Trichloroethane  
 Concen: 21.391 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

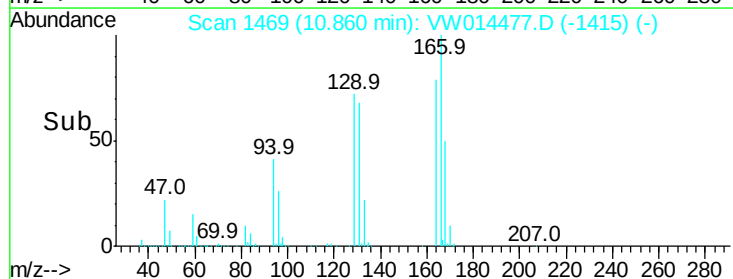
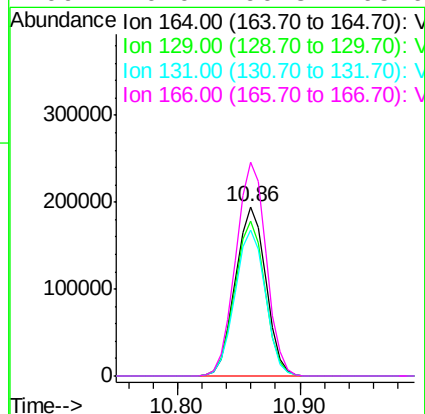
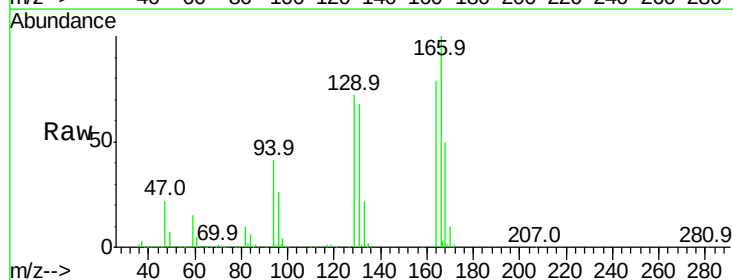
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

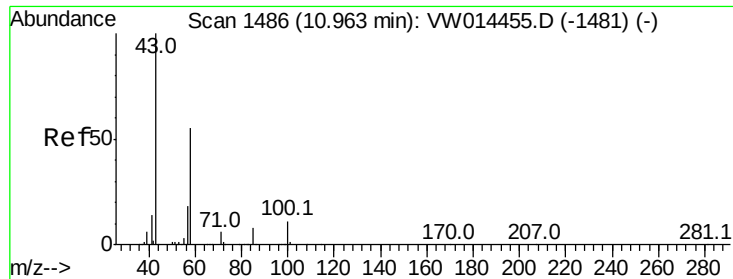
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 273179 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.8  | 58.9  | 109.5  |
| 85       | 54.5  | 38.1  | 70.9   |
| 99       | 62.0  | 46.5  | 86.3   |



#47  
 Tetrachloroethene  
 Concen: 23.699 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 335264 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 91.4  | 60.6  | 112.6  |
| 131      | 86.0  | 59.1  | 109.7  |
| 166      | 126.0 | 90.8  | 168.6  |

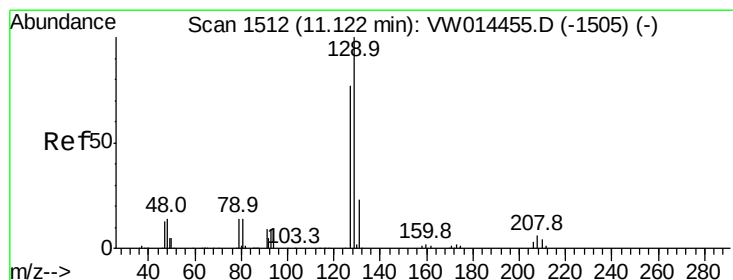
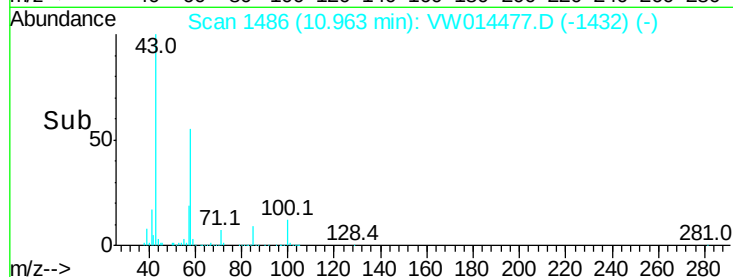
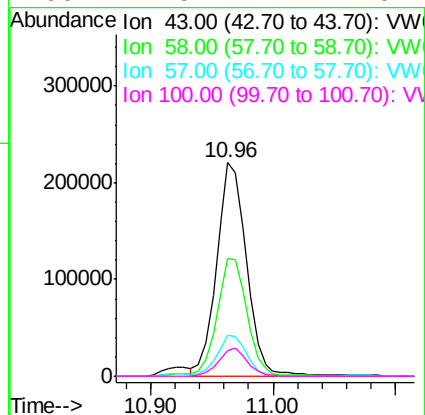
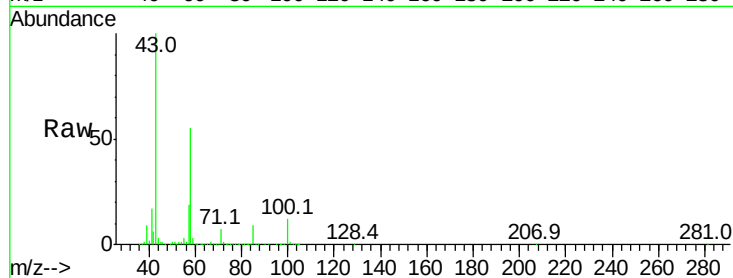




#49  
2-Hexanone  
Concen: 46.772 ug/L  
RT: 10.96 min Scan# 1486  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

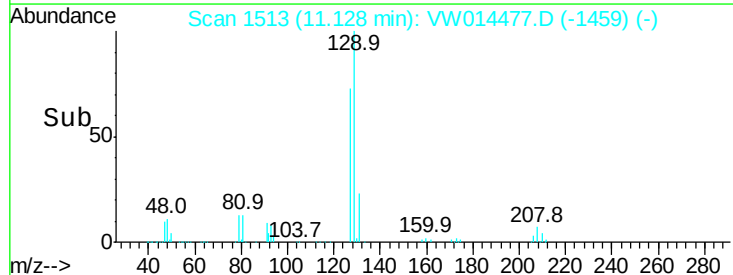
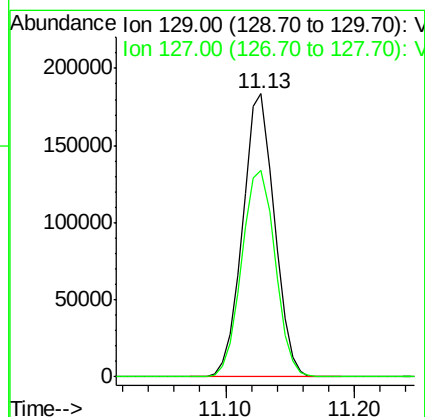
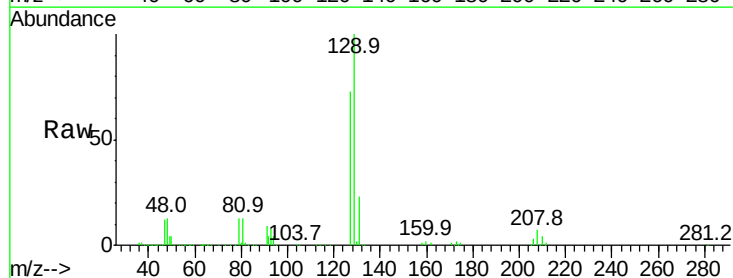
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02504

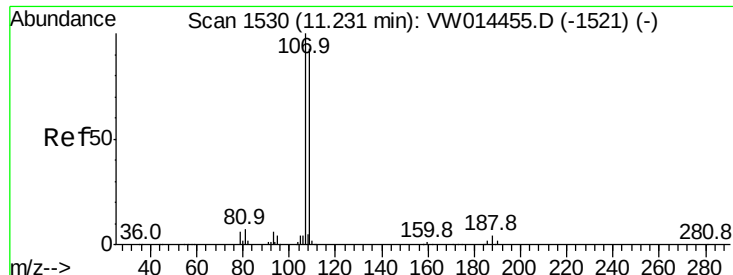
Tgt Ion: 43 Resp: 374211  
Ion Ratio Lower Upper  
43 100  
58 56.1 44.4 66.6  
57 19.1 16.5 24.7  
100 12.5 11.1 16.7



#50  
Dibromochloromethane  
Concen: 21.835 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

Tgt Ion: 129 Resp: 312956  
Ion Ratio Lower Upper  
129 100  
127 73.0 54.9 102.1

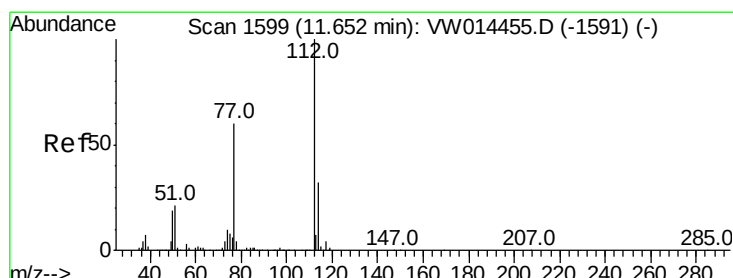
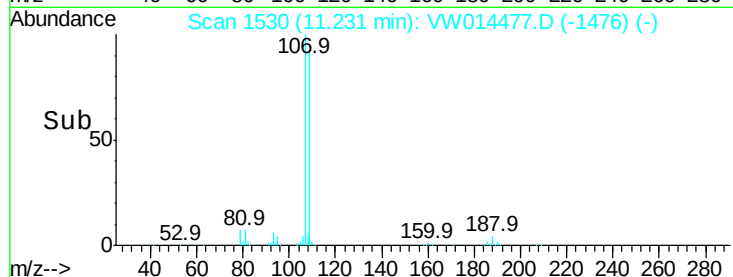
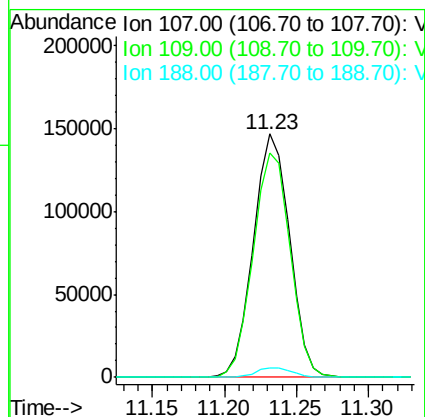
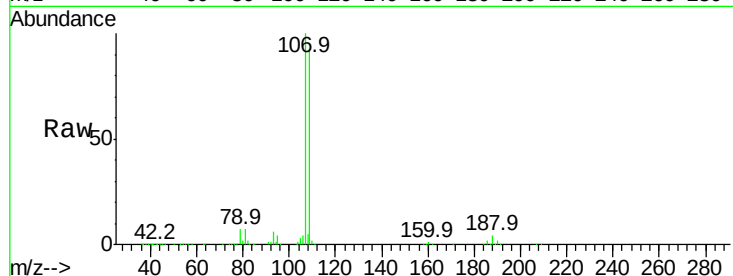




#51  
1,2-Dibromoethane  
Concen: 21.169 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

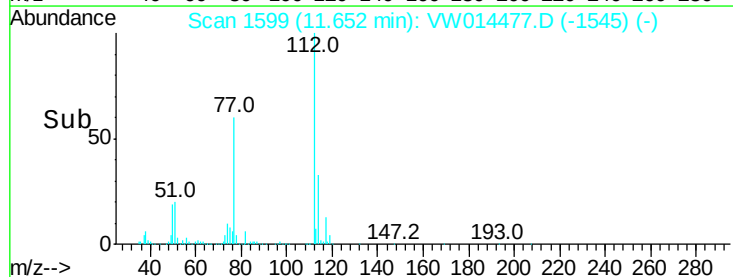
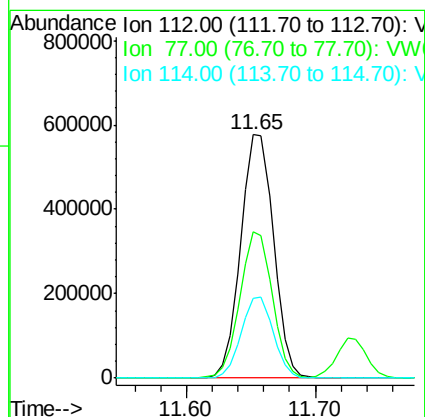
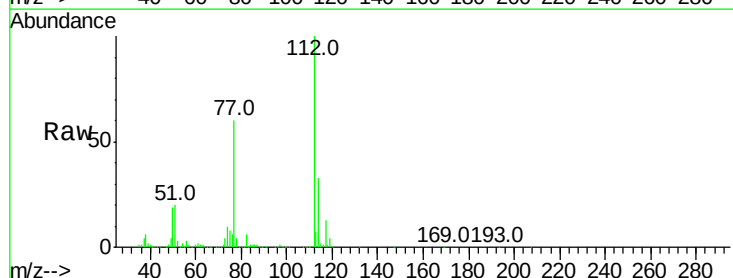
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02504

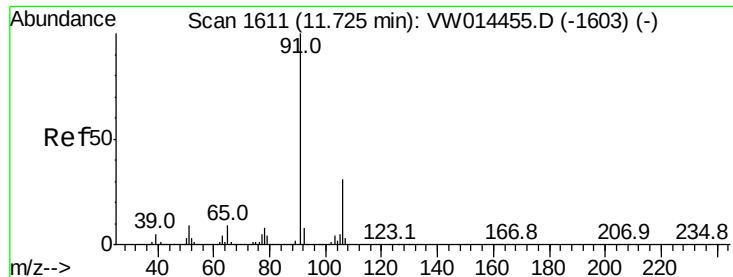
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.4  | 64.6  | 120.0 |
| 188     | 3.8   | 3.9   | 5.9#  |



#52  
Chlorobenzene  
Concen: 22.651 ug/L  
RT: 11.65 min Scan# 1599  
Delta R.T. 0.00 min  
Lab File: VW014477.D  
Acq: 27 Dec 2019 19:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 60.2  | 42.2  | 63.4  |
| 114     | 32.7  | 22.5  | 41.9  |





#53

Ethylbenzene

Concen: 24.206 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

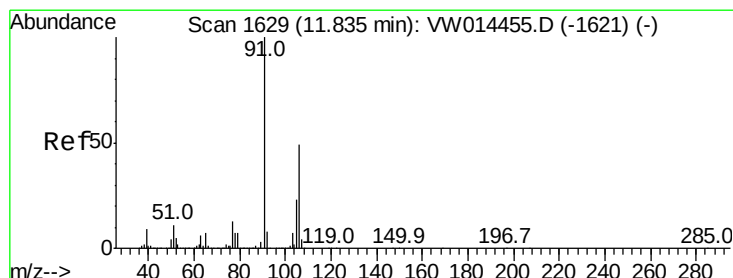
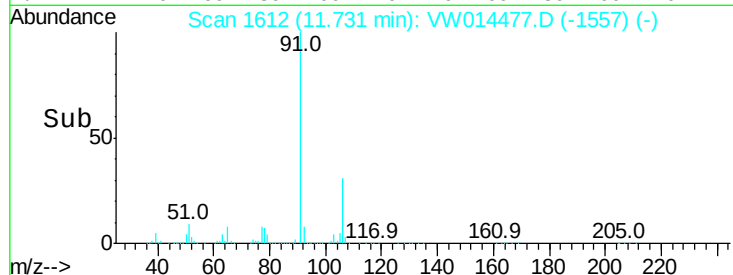
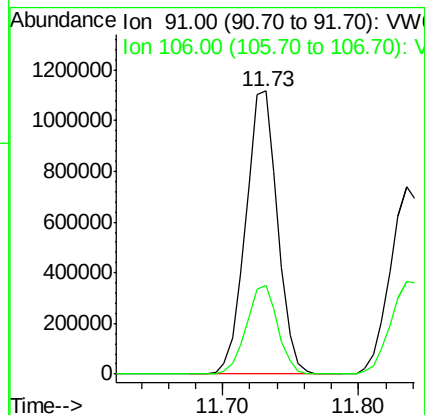
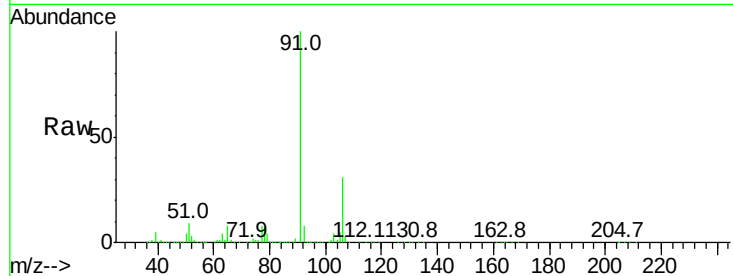
VSTD02504

Tgt Ion: 91 Resp: 1826706

Ion Ratio Lower Upper

91 100

106 31.2 22.3 41.5



#54

m,p-Xylene

Concen: 23.786 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014477.D

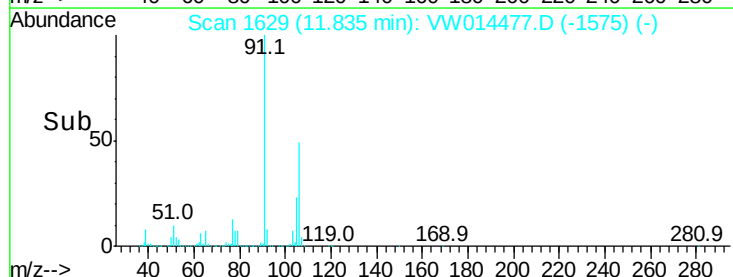
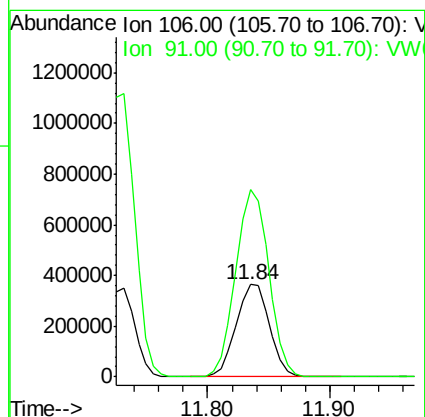
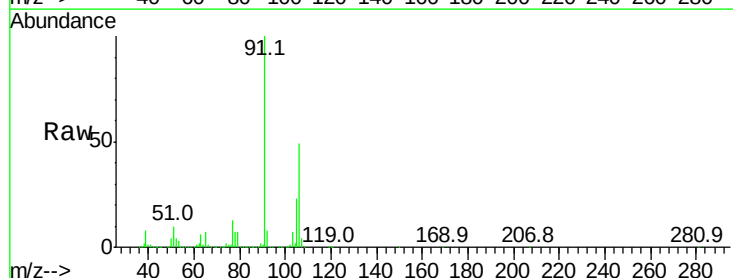
Acq: 27 Dec 2019 19:28

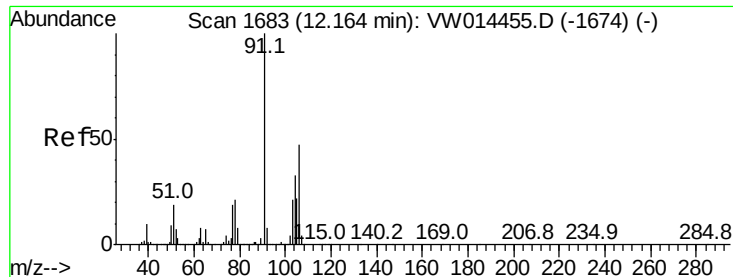
Tgt Ion: 106 Resp: 690477

Ion Ratio Lower Upper

106 100

91 203.1 138.7 257.5





#55

o-xylene

Concen: 23.844 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

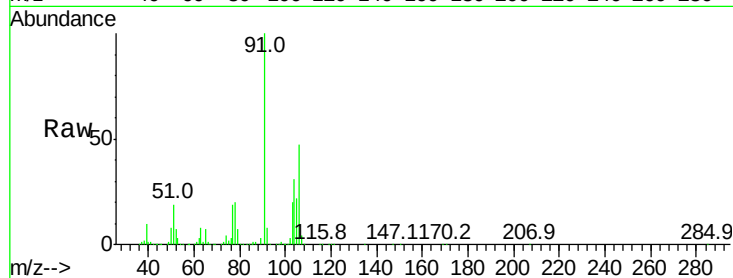
VSTD02504

Tgt Ion:106 Resp: 656519

Ion Ratio Lower Upper

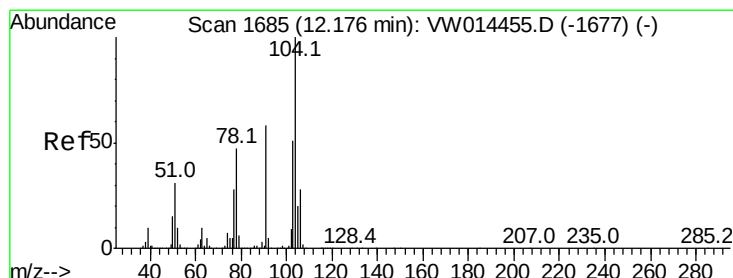
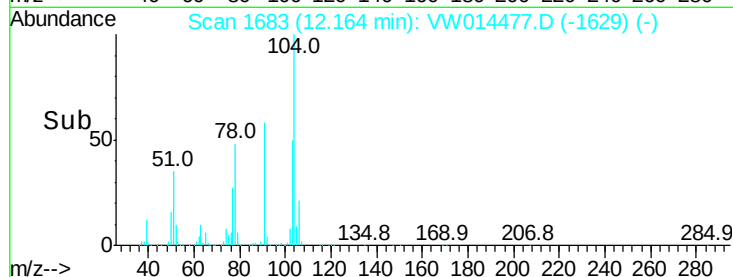
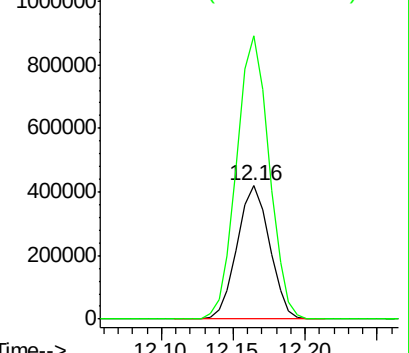
106 100

91 212.4 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 23.787 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014477.D

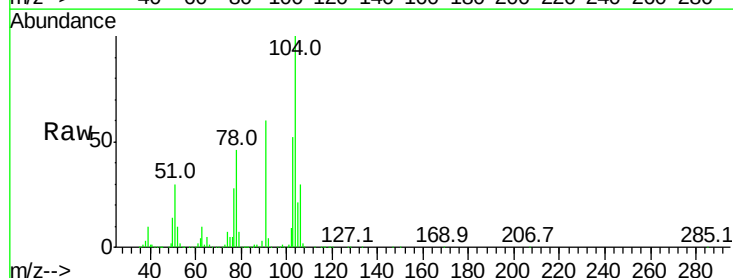
Acq: 27 Dec 2019 19:28

Tgt Ion:104 Resp: 1120440

Ion Ratio Lower Upper

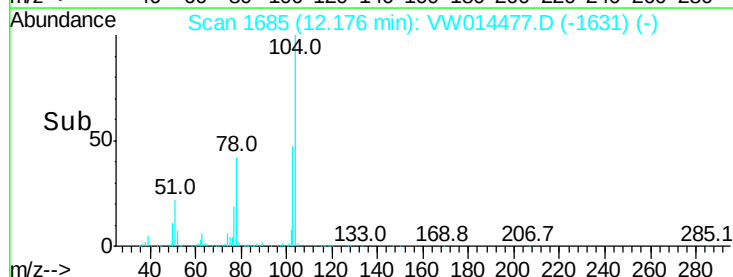
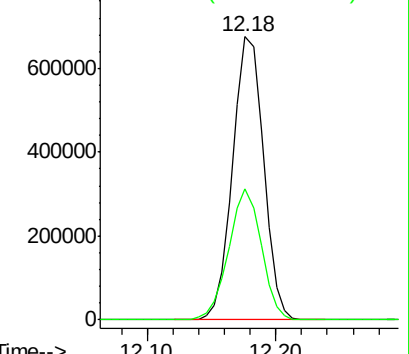
104 100

78 46.2 30.6 56.8

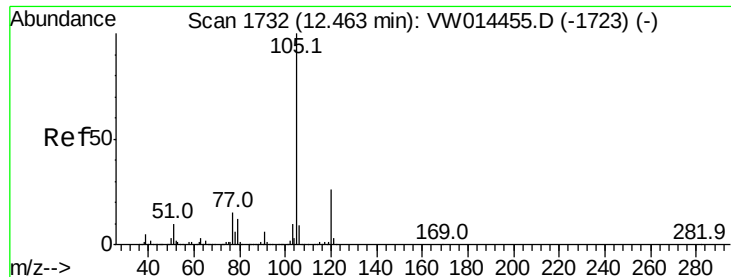


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW







#57

Isopropylbenzene

Concen: 24.807 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02504

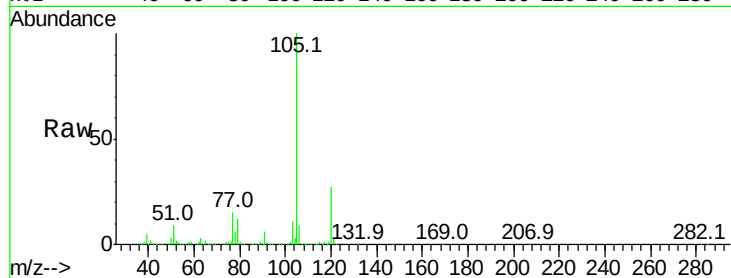
Tgt Ion: 105 Resp: 1773219

Ion Ratio Lower Upper

105 100

120 26.3 21.6 32.4

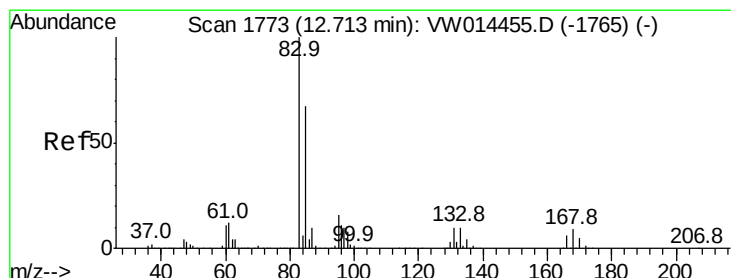
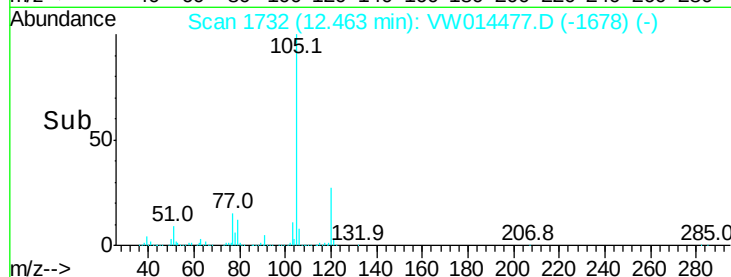
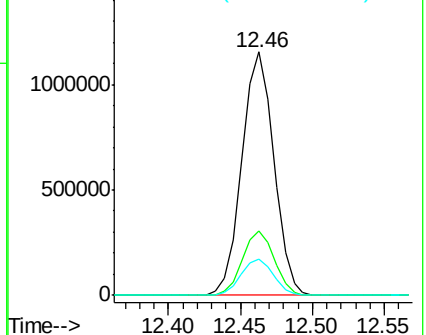
77 15.2 11.6 17.4



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: 20.449 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

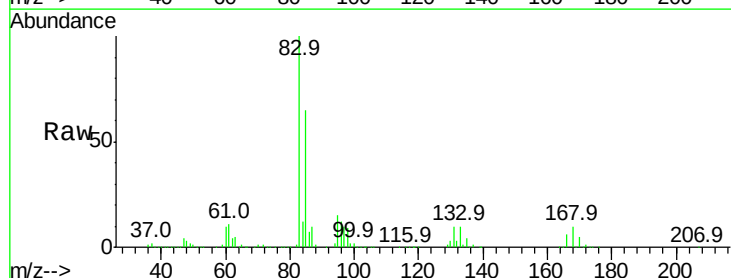
Tgt Ion: 83 Resp: 324128

Ion Ratio Lower Upper

83 100

85 64.7 43.7 81.1

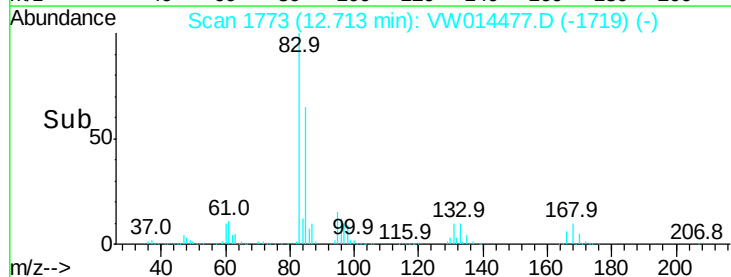
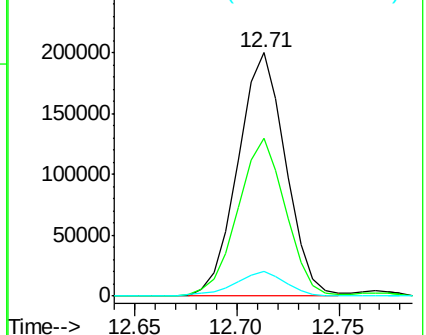
131 10.0 8.2 12.2

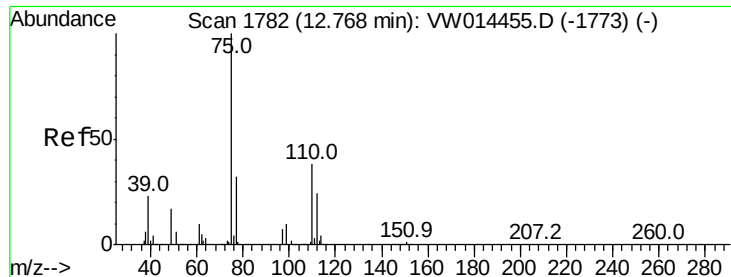


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 20.741 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampleId :

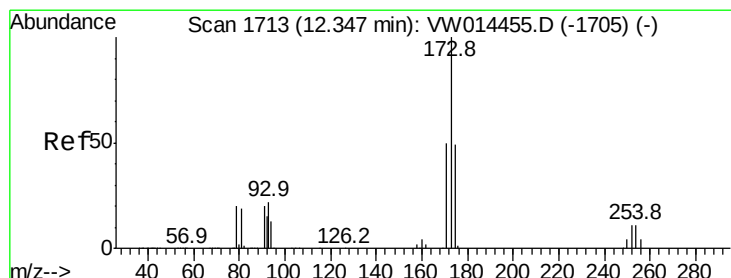
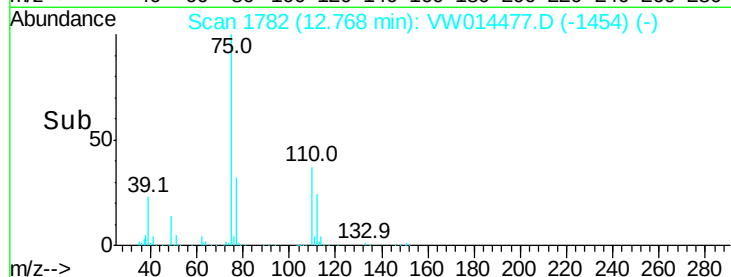
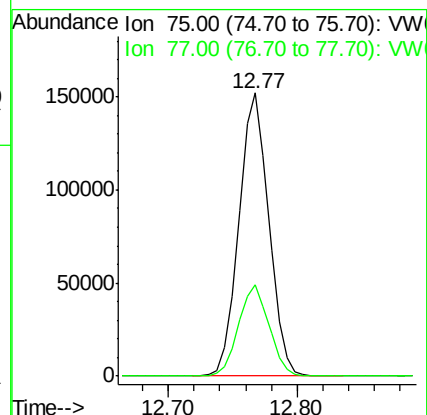
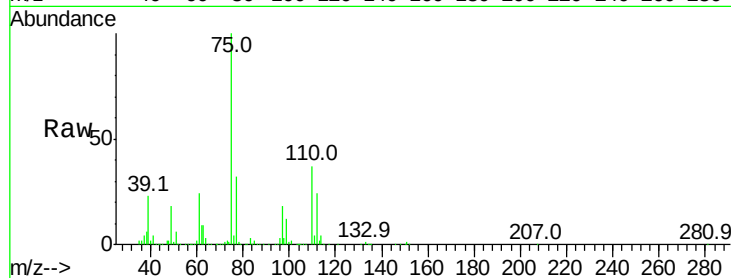
VSTD02504

Tgt Ion: 75 Resp: 244287

Ion Ratio Lower Upper

75 100

77 32.7 25.9 38.9



#62

Bromoform

Concen: 20.769 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

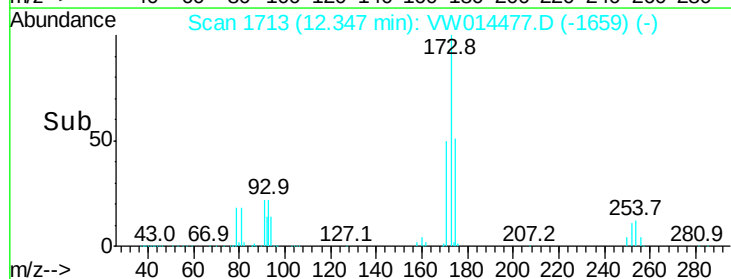
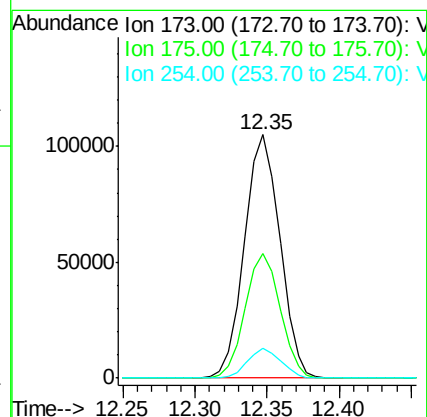
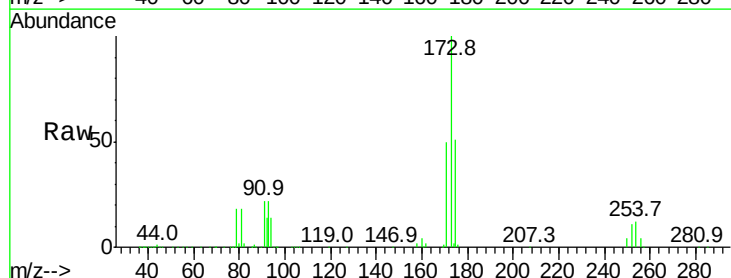
Tgt Ion: 173 Resp: 179375

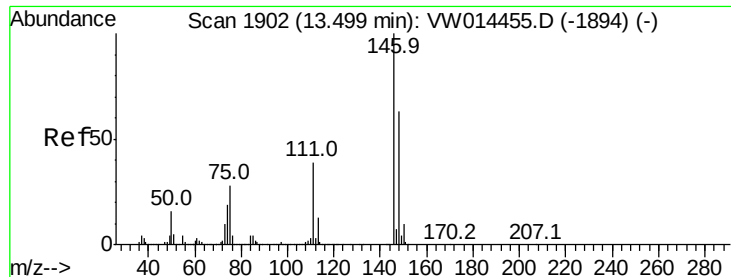
Ion Ratio Lower Upper

173 100

175 50.6 38.8 58.2

254 11.6 9.4 14.0

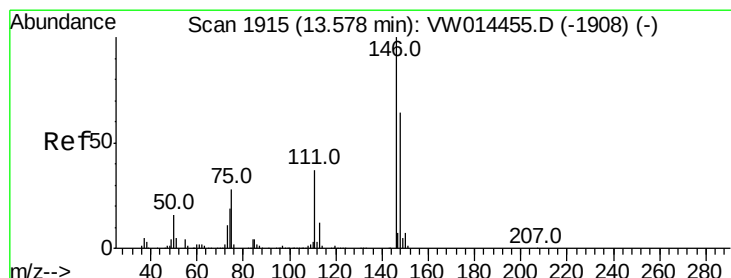
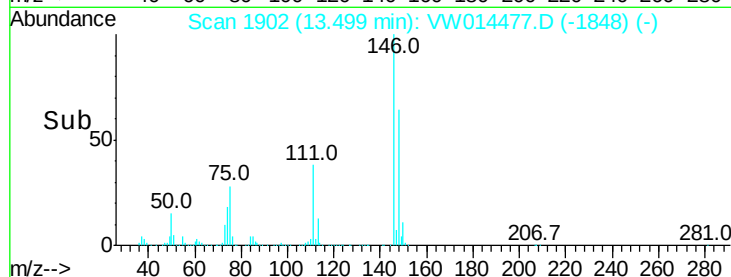
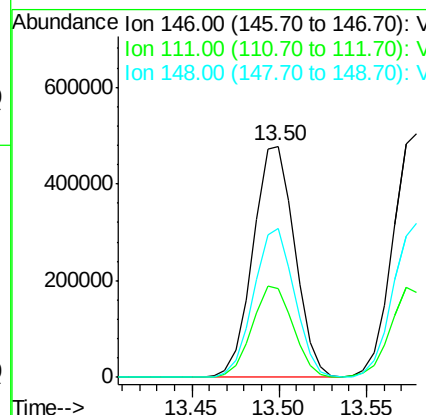
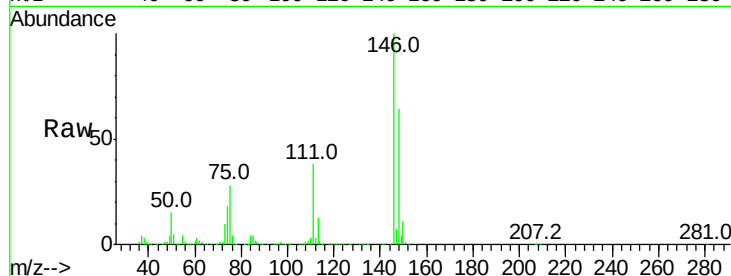




#63  
 1,3-Dichlorobenzene  
 Concen: 23.173 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

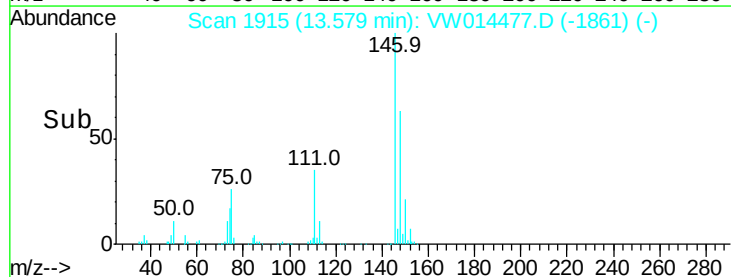
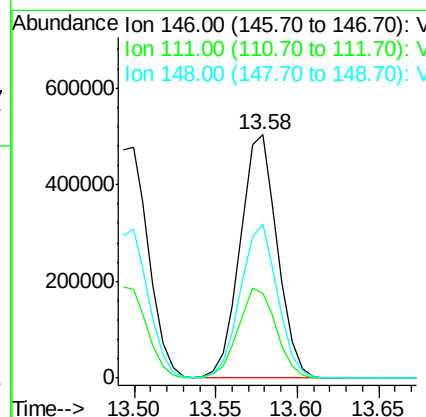
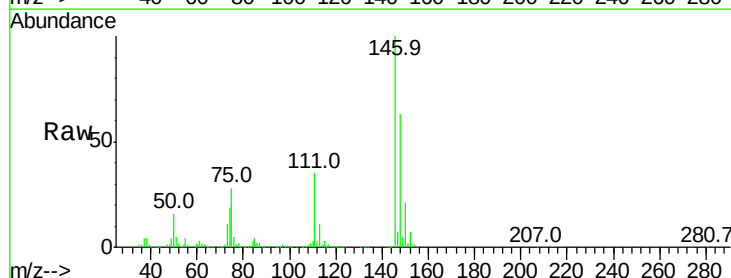
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

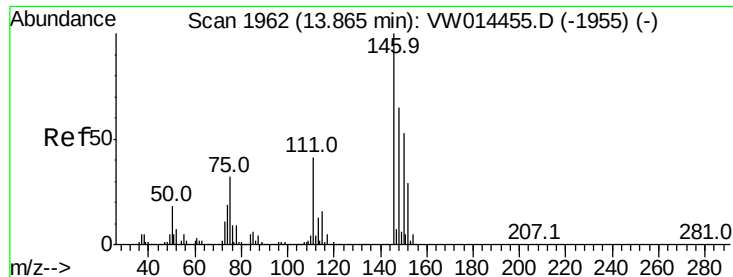
Tgt Ion:146 Resp: 792565  
 Ion Ratio Lower Upper  
 146 100  
 111 38.5 26.0 48.2  
 148 64.4 44.7 82.9



#64  
 1,4-Dichlorobenzene  
 Concen: 22.923 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

Tgt Ion:146 Resp: 796558  
 Ion Ratio Lower Upper  
 146 100  
 111 35.0 24.9 46.3  
 148 63.4 43.9 81.5

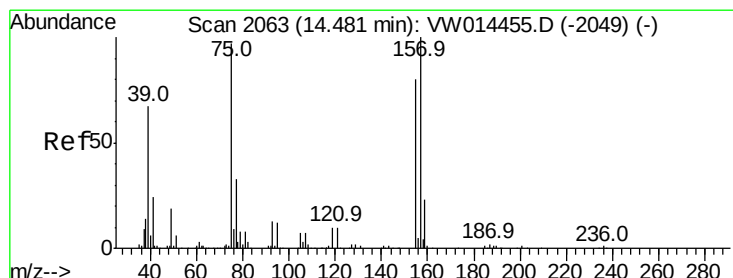
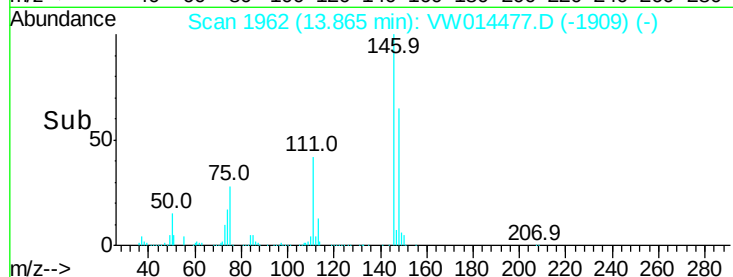
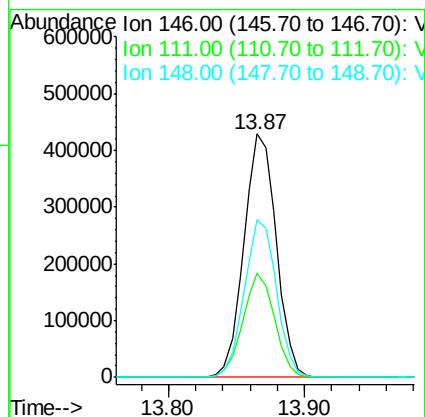
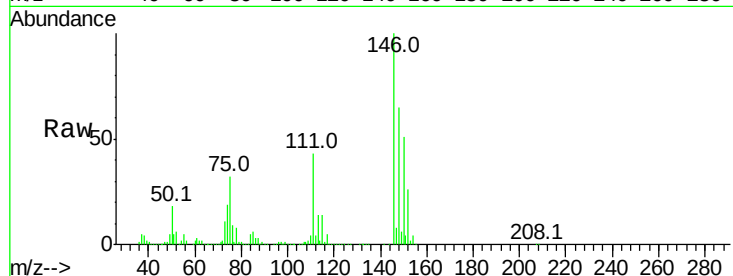




#65  
 1,2-Dichlorobenzene  
 Concen: 22.434 ug/L  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.01 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

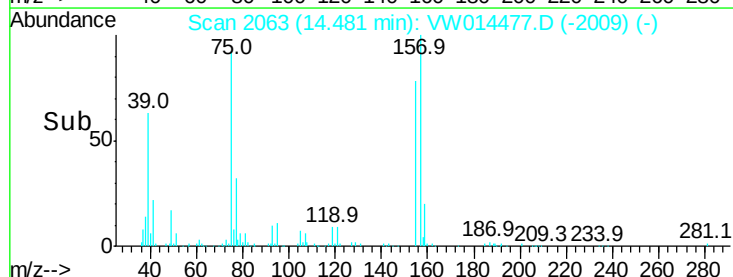
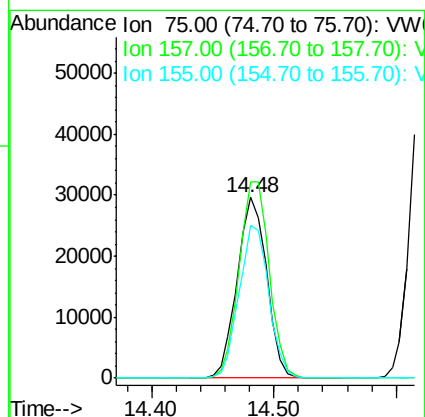
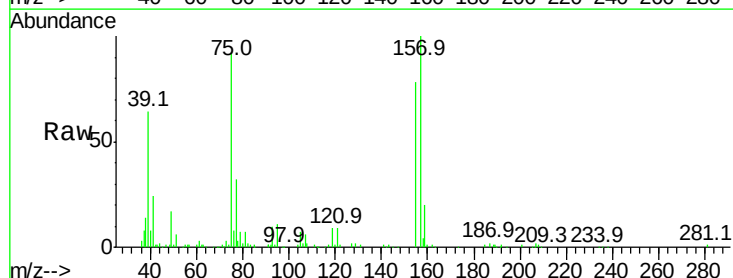
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

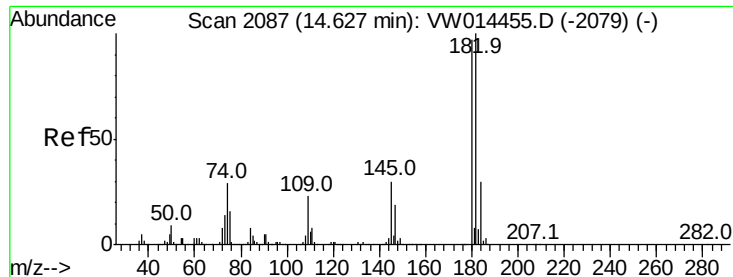
Tgt Ion: 146 Resp: 713522  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 30.5 45.7  
 148 64.8 49.4 74.2



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 20.218 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

Tgt Ion: 75 Resp: 49607  
 Ion Ratio Lower Upper  
 75 100  
 157 109.0 96.9 145.3  
 155 84.8 82.9 124.3

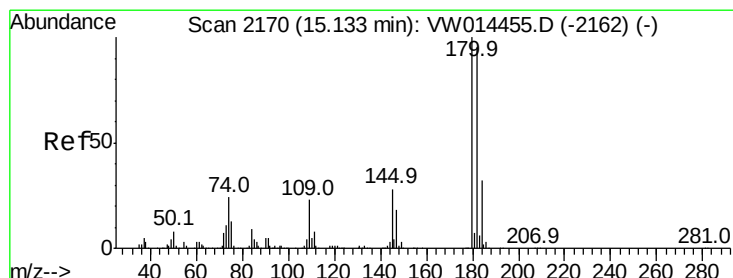
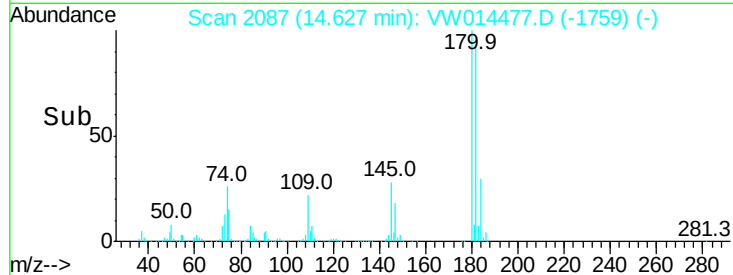
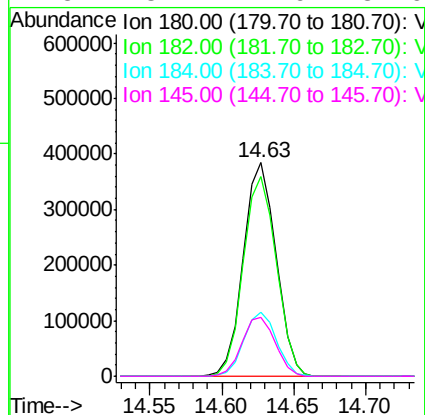
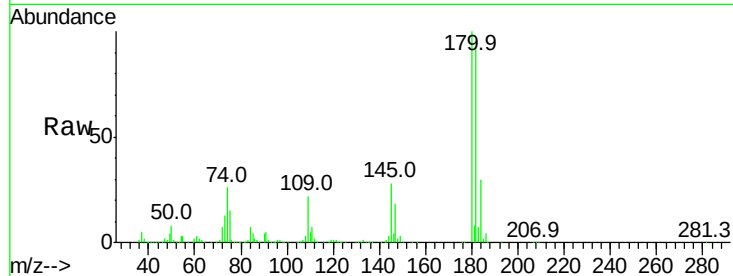




#67  
 1,3,5-Trichlorobenzene  
 Concen: 24.557 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

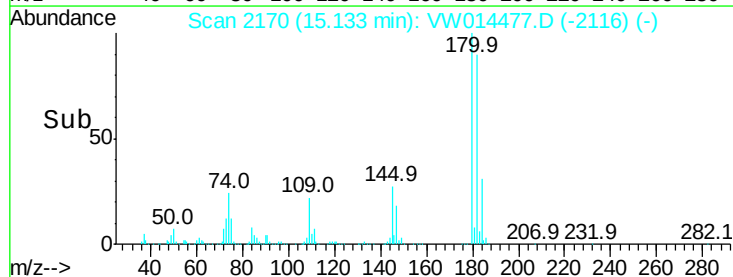
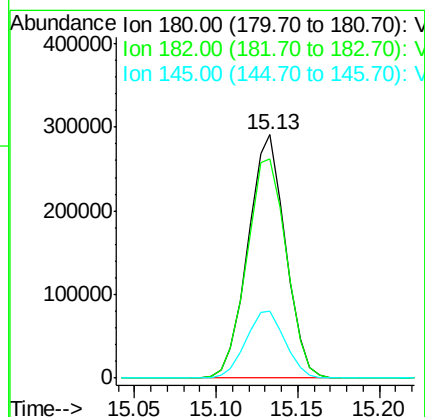
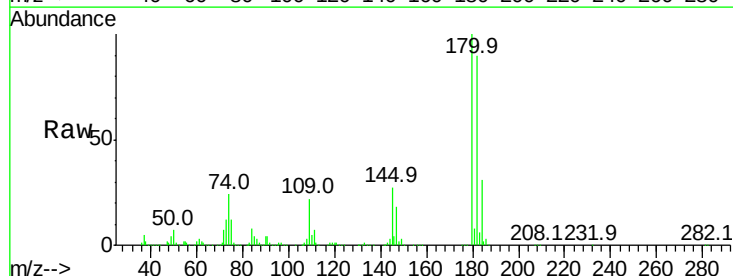
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02504

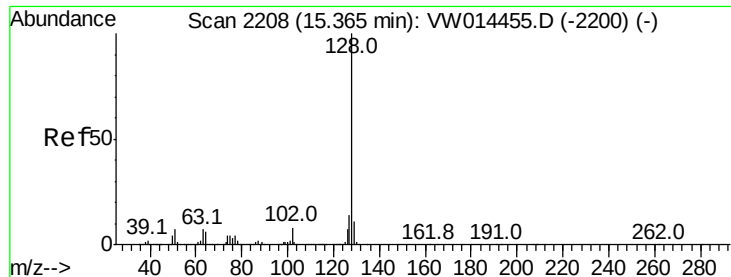
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 604292 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.7  | 76.2  | 114.2  |
| 184      | 30.0  | 24.3  | 36.5   |
| 145      | 28.2  | 21.9  | 32.9   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 24.381 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW014477.D  
 Acq: 27 Dec 2019 19:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 467706 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 75.8  | 113.8  |
| 145      | 28.9  | 22.4  | 33.6   |





#69

Naphthalene

Concen: 22.846 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

Instrument :

MSVOA\_W

ClientSampled :

VSTD02504

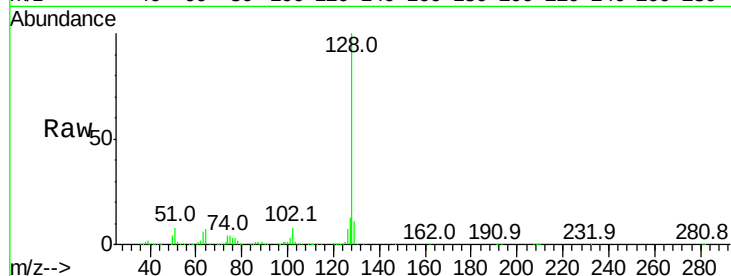
Tgt Ion:128 Resp: 824158

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

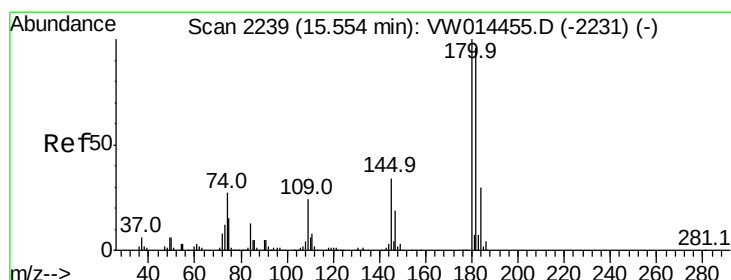
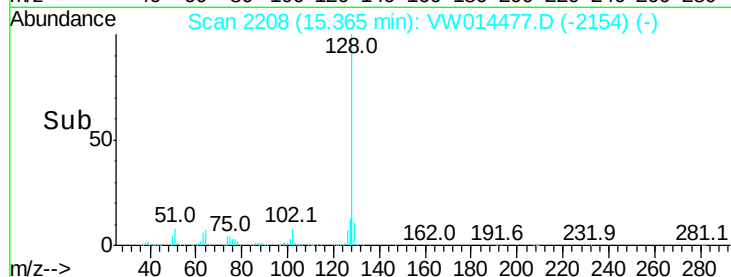
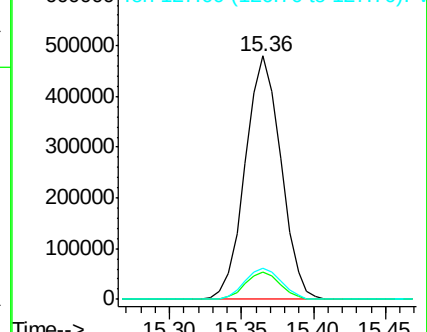
127 13.3 10.4 15.6



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: 23.153 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014477.D

Acq: 27 Dec 2019 19:28

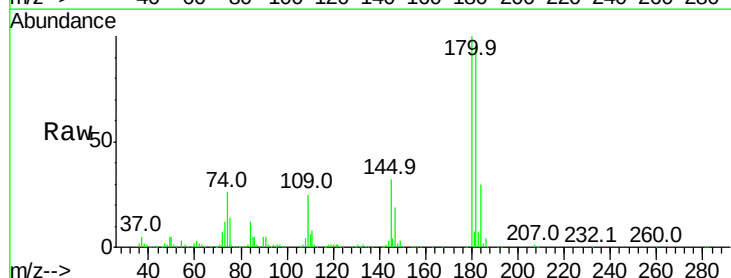
Tgt Ion:180 Resp: 416502

Ion Ratio Lower Upper

180 100

182 96.3 75.8 113.6

145 31.1 24.0 36.0



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

