

Data File : VW015030.D  
Acq On : 25 Feb 2020 12:08  
Operator : SY/VA  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

Quant Time: Feb 26 03:51:40 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Feb 25 06:06:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 775525   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 705584   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 315777   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 453720   | 23.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.56%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 322592   | 23.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.28%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 734391   | 24.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 97.32%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 196754   | 60.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 121.36% |
| 24) Chloroform-d               | 7.65   | 84    | 609085   | 23.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.60%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 349294   | 24.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1232269  | 25.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 101.64% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 413148   | 25.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 101.80% |
| 37) Toluene-d8                 | 10.32  | 98    | 1067109  | 26.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 105.52% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 160282   | 26.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 106.84% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 137607   | 64.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 128.06% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 283920   | 27.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.28% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 287152   | 24.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.28%  |

#### Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 162187 | 24.509 | ug/L | 99     |
| 3) Chloromethane               | 2.21 | 50  | 332897 | 21.945 | ug/L | 97     |
| 5) Vinyl chloride              | 2.37 | 62  | 430820 | 21.950 | ug/L | 98     |
| 6) Bromomethane                | 2.78 | 94  | 188938 | 21.443 | ug/L | 97     |
| 8) Chloroethane                | 2.92 | 64  | 236642 | 22.159 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 198326 | 22.422 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 283537 | 23.274 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 271259 | 23.388 | ug/L | 79     |
| 13) Acetone                    | 4.12 | 43  | 247043 | 64.417 | ug/L | 96     |
| 14) Carbon disulfide           | 4.38 | 76  | 974302 | 22.448 | ug/L | 100    |
| 15) Methyl Acetate             | 4.67 | 43  | 173805 | 26.915 | ug/L | 99     |
| 16) Methylene chloride         | 4.91 | 84  | 301482 | 21.003 | ug/L | 95     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 362081 | 25.791 | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 279445 | 23.320 | ug/L | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 618001 | 23.123 | ug/L | 100    |
| 21) 2-Butanone                 | 7.16 | 43  | 283072 | 62.770 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 292800 | 24.010 | ug/L | 93     |

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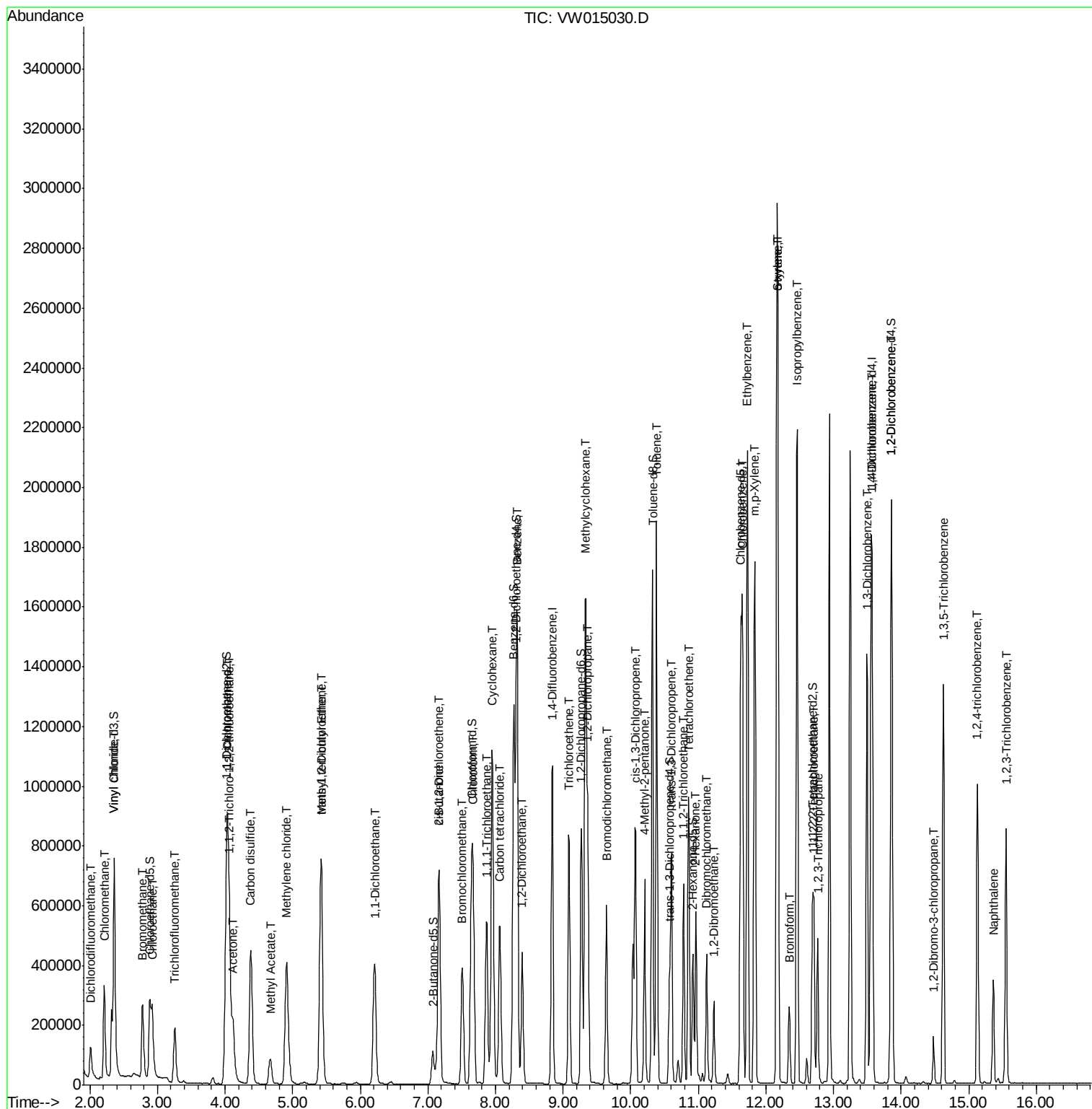
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 111265   | 23.454 | ug/L  | 94       |
| 25) Chloroform                 | 7.67  | 83   | 540823   | 22.298 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 394216   | 23.755 | ug/L  | 100      |
| 30) Cyclohexane                | 7.95  | 56   | 629127   | 26.669 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 426183   | 23.421 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.06  | 117  | 384188   | 23.561 | ug/L  | 100      |
| 34) Benzene                    | 8.32  | 78   | 1275133  | 24.294 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 300315   | 23.654 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.33  | 83   | 577483   | 26.488 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 348340   | 23.896 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 382853   | 23.414 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 487955   | 25.688 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 476510   | 58.443 | ug/L  | 100      |
| 44) Toluene                    | 10.38 | 91   | 1271580  | 24.945 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 394370   | 25.687 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 201246   | 24.533 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.86 | 164  | 195238   | 23.859 | ug/L  | 97       |
| 49) 2-Hexanone                 | 10.96 | 43   | 393384   | 66.551 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.12 | 129  | 210400   | 24.101 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 181676   | 25.412 | ug/L  | 93       |
| 52) Chlorobenzene              | 11.65 | 112  | 711768   | 23.740 | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 1410132  | 25.323 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.83 | 106  | 501087   | 25.719 | ug/L  | 97       |
| 55) o-xylene                   | 12.16 | 106  | 464199   | 25.571 | ug/L  | 100      |
| 56) Styrene                    | 12.18 | 104  | 799303   | 25.707 | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.46 | 105  | 1298233  | 26.259 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 262660   | 25.377 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 203432   | 25.572 | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 107475   | 24.214 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.49 | 146  | 503148   | 24.424 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.57 | 146  | 502842   | 23.708 | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene        | 13.86 | 146  | 451047   | 24.176 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 42602    | 25.865 | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 355564   | 25.739 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 272971   | 27.037 | ug/L  | 100      |
| 69) Naphthalene                | 15.36 | 128  | 263575   | 29.407 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 251475   | 27.751 | ug/L  | 99       |

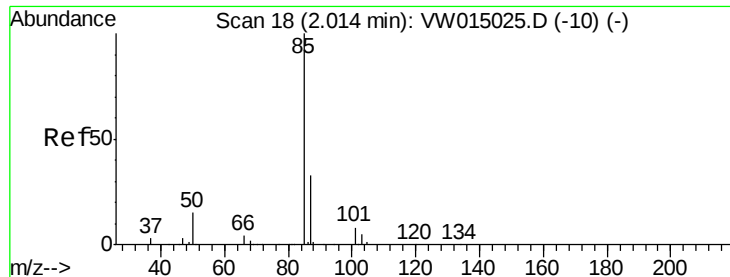
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.509 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

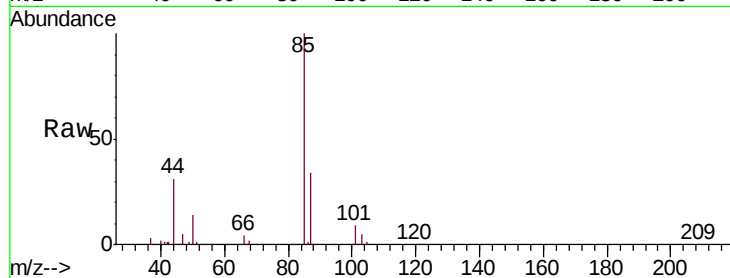
VSTD02527

Tgt Ion: 85 Resp: 162187

Ion Ratio Lower Upper

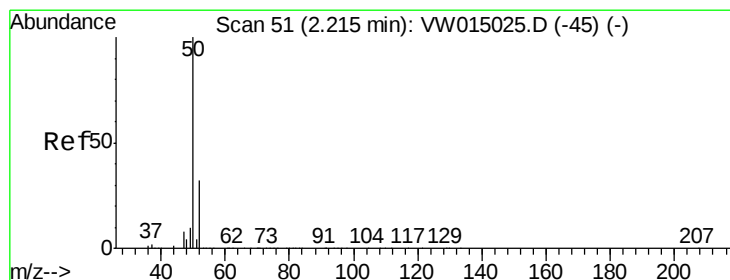
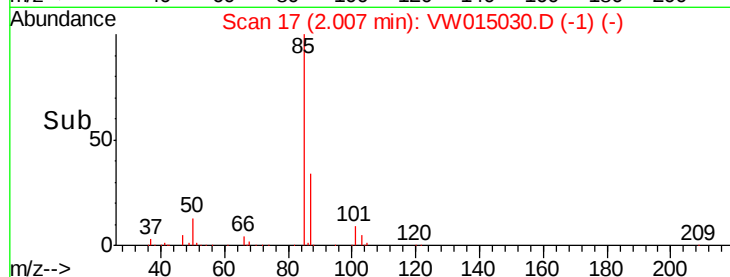
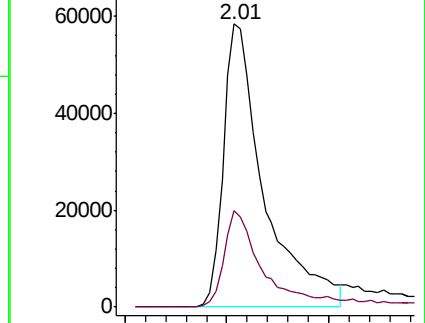
85 100

87 30.9 22.0 41.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.945 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015030.D

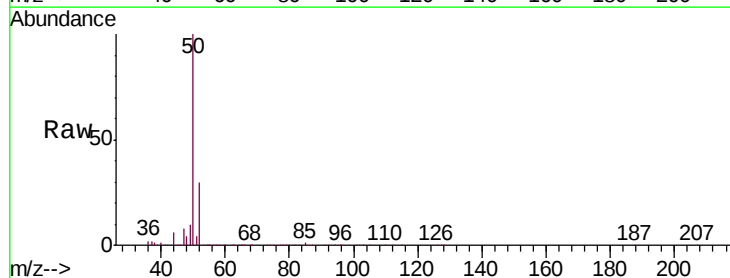
Acq: 25 Feb 2020 12:08

Tgt Ion: 50 Resp: 332897

Ion Ratio Lower Upper

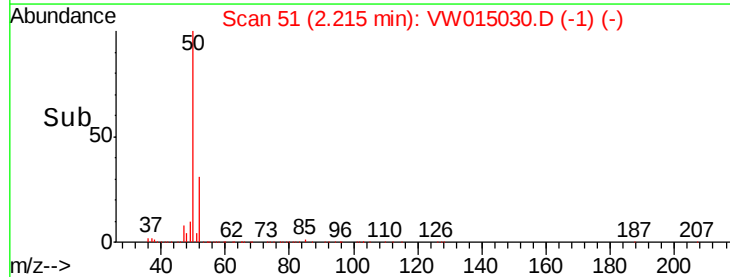
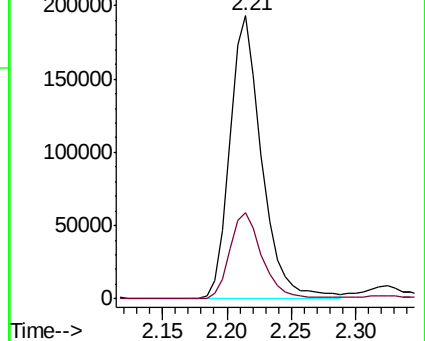
50 100

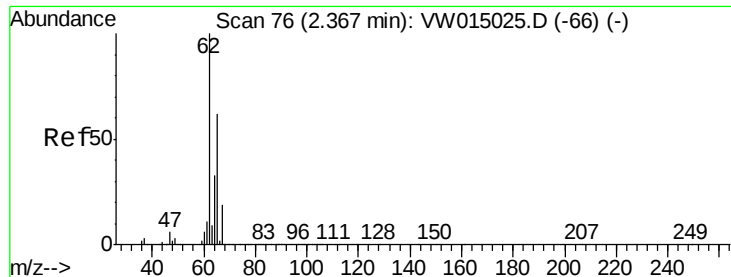
52 30.5 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 21.950 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

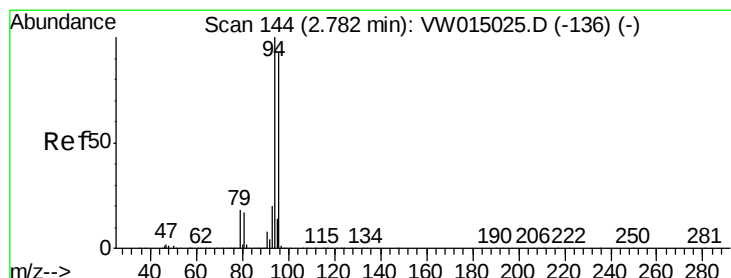
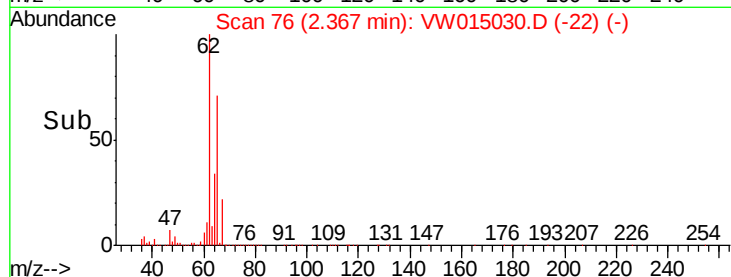
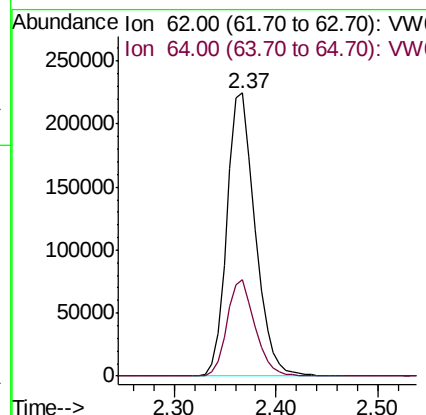
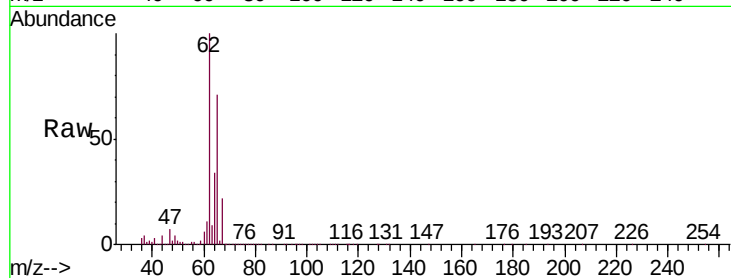
VSTD02527

Tgt Ion: 62 Resp: 430820

Ion Ratio Lower Upper

62 100

64 34.3 23.0 42.8



#6

Bromomethane

Concen: 21.443 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015030.D

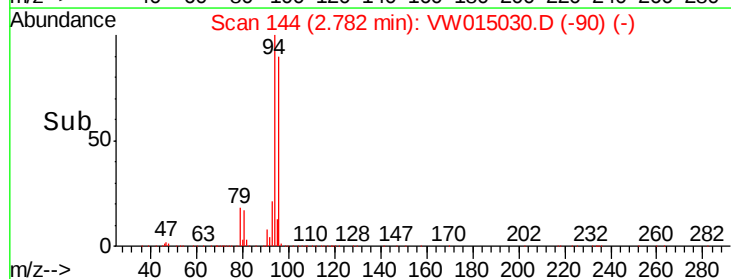
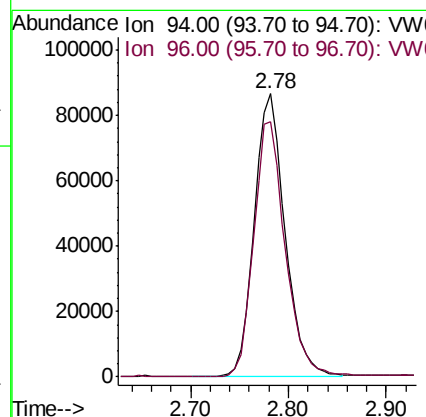
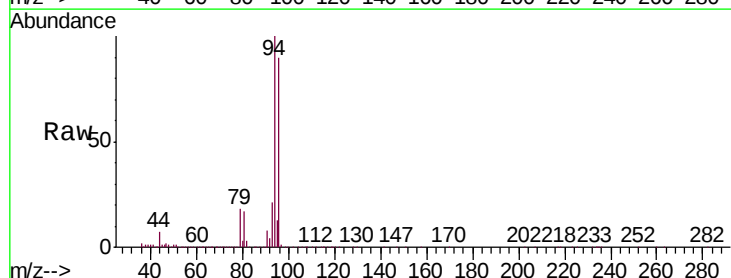
Acq: 25 Feb 2020 12:08

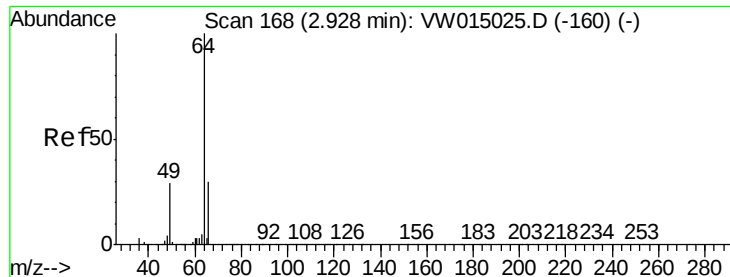
Tgt Ion: 94 Resp: 188938

Ion Ratio Lower Upper

94 100

96 91.7 9.5 179.7





#8

Chloroethane

Concen: 22.159 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

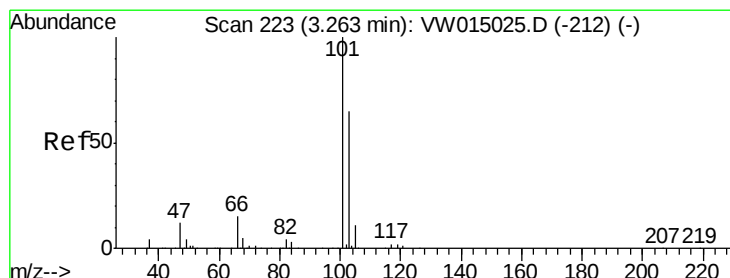
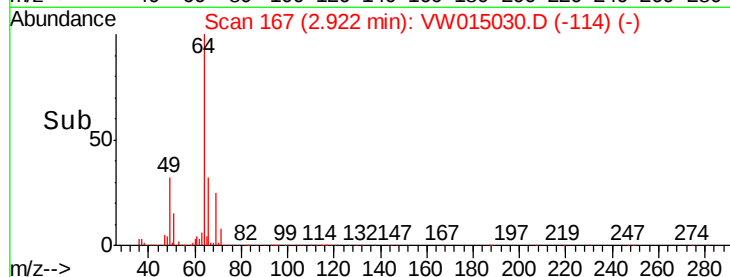
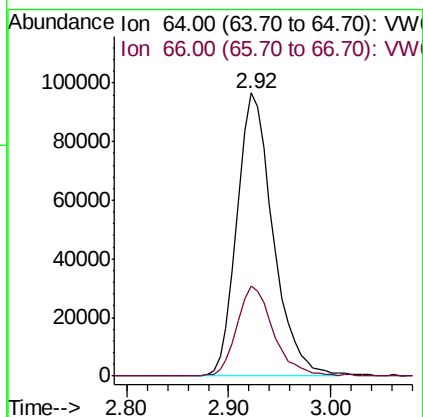
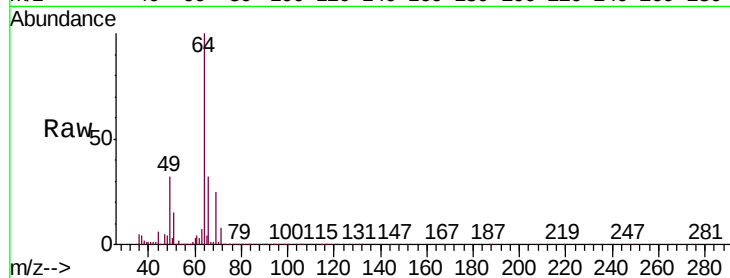
VSTD02527

Tgt Ion: 64 Resp: 236642

Ion Ratio Lower Upper

64 100

66 31.7 21.2 39.4



#9

Trichlorofluoromethane

Concen: 22.422 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW015030.D

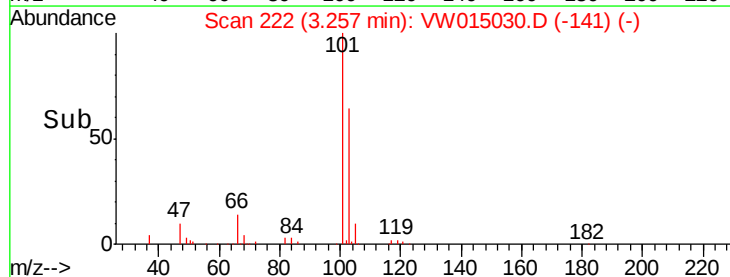
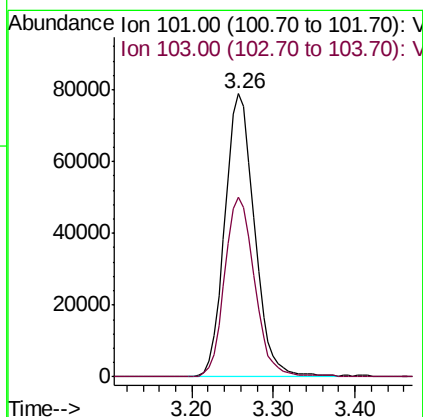
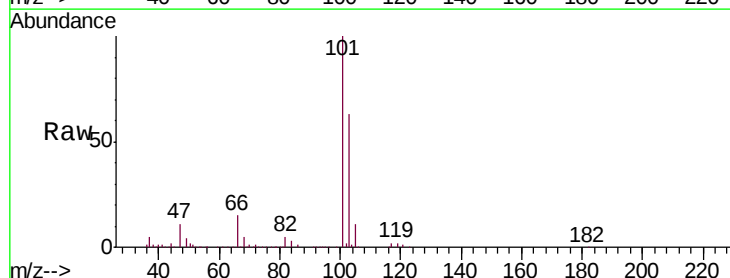
Acq: 25 Feb 2020 12:08

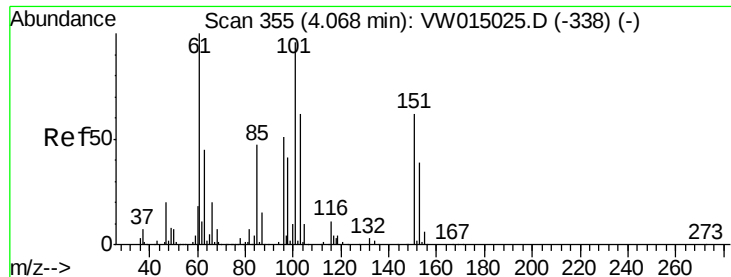
Tgt Ion: 101 Resp: 198326

Ion Ratio Lower Upper

101 100

103 63.8 44.9 83.5





#11

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

Concen: 23.274 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

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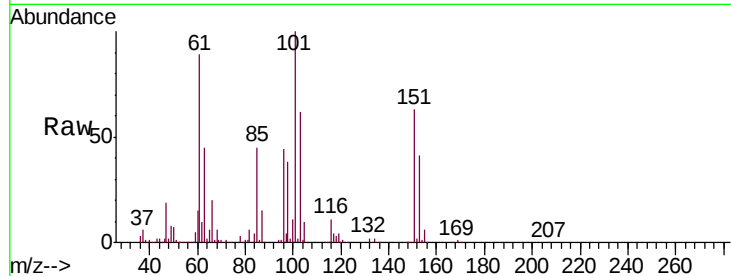
Tgt Ion:101 Resp: 283537

Ion Ratio Lower Upper

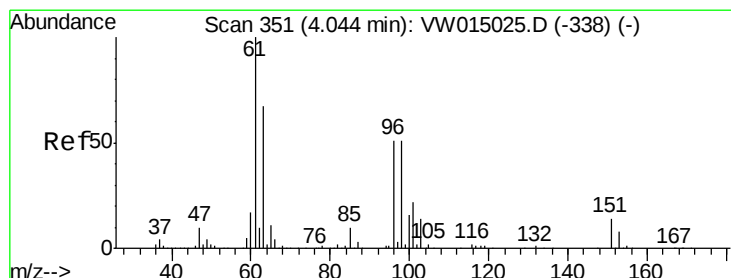
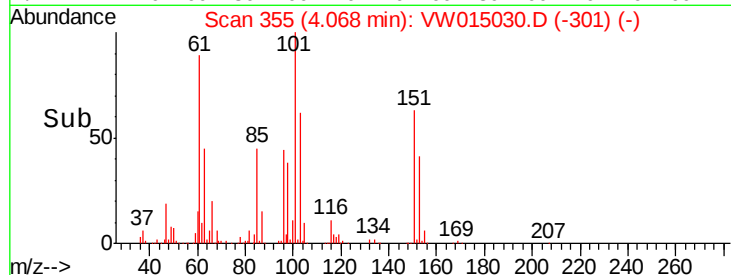
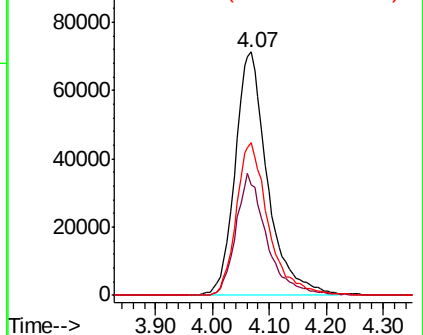
101 100

85 46.9 37.8 56.8

151 62.1 50.3 75.5



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: 23.388 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

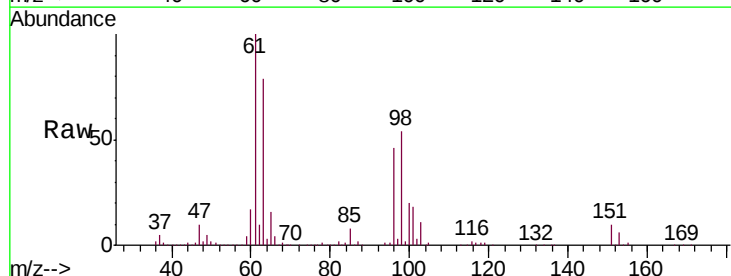
Tgt Ion: 96 Resp: 271259

Ion Ratio Lower Upper

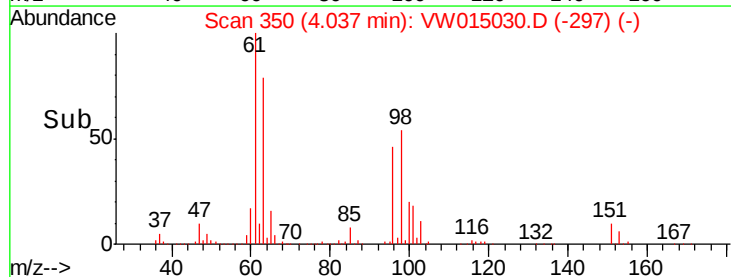
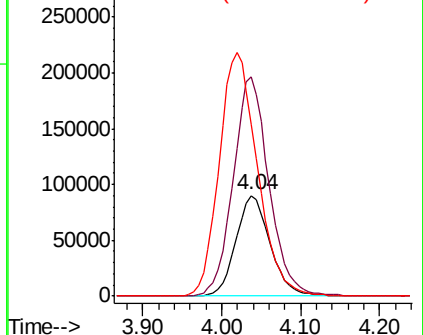
96 100

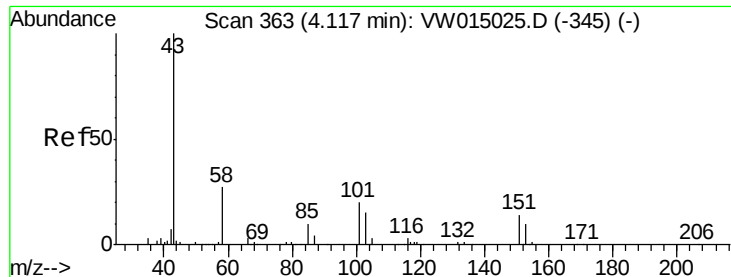
61 217.4 138.5 257.1

63 170.9 93.4 173.6



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: 64.417 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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MSVOA\_W

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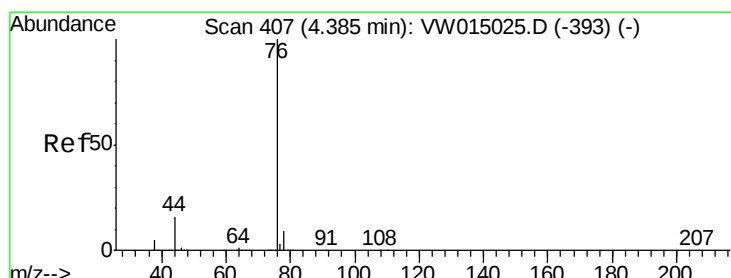
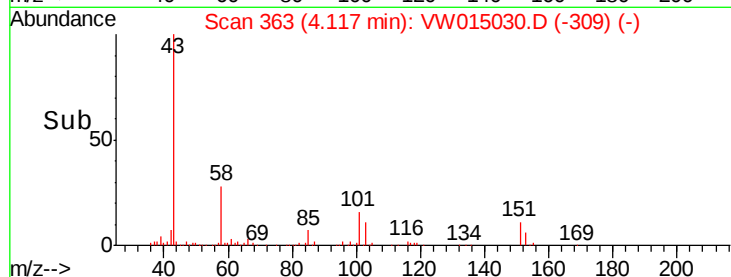
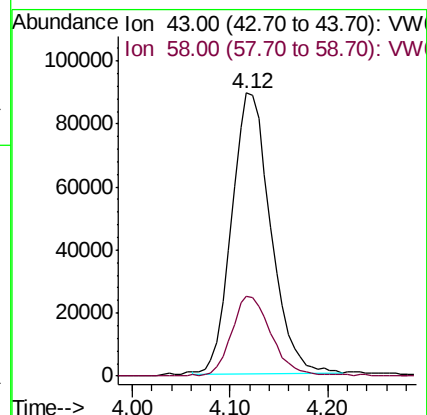
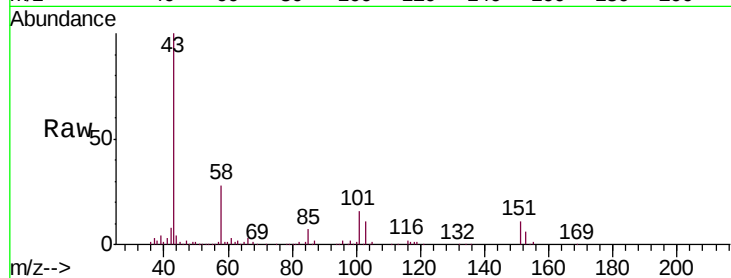
VSTD02527

Tgt Ion: 43 Resp: 247043

Ion Ratio Lower Upper

43 100

58 29.2 0.0 54.0



#14

Carbon disulfide

Concen: 22.448 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW015030.D

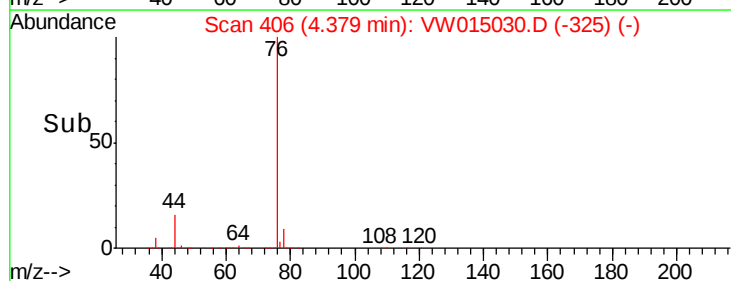
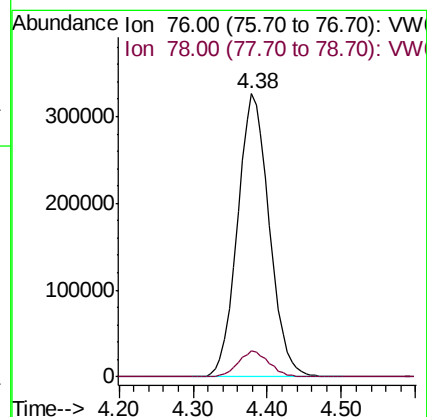
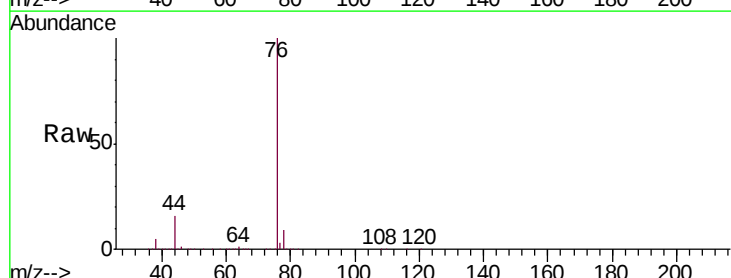
Acq: 25 Feb 2020 12:08

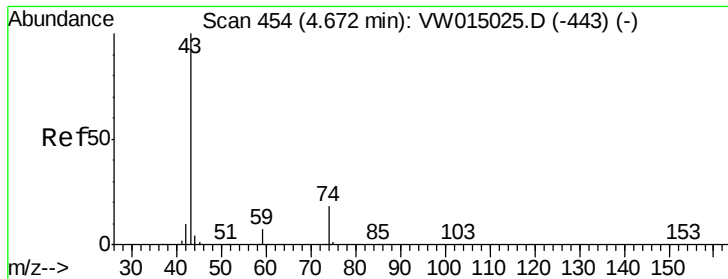
Tgt Ion: 76 Resp: 974302

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8





#15

Methyl Acetate

Concen: 26.915 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

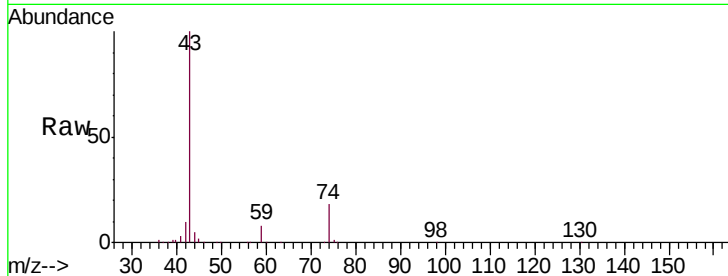
VSTD02527

Tgt Ion: 43 Resp: 173805

Ion Ratio Lower Upper

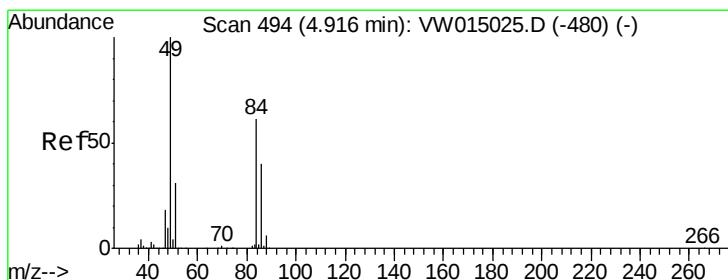
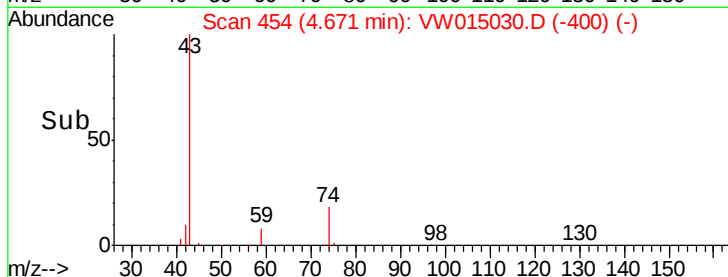
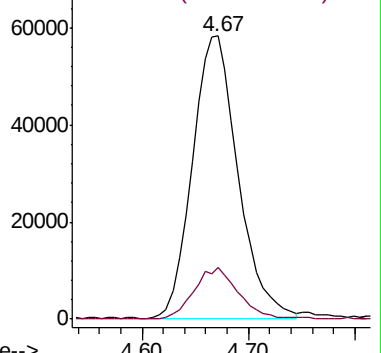
43 100

74 17.8 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 21.003 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

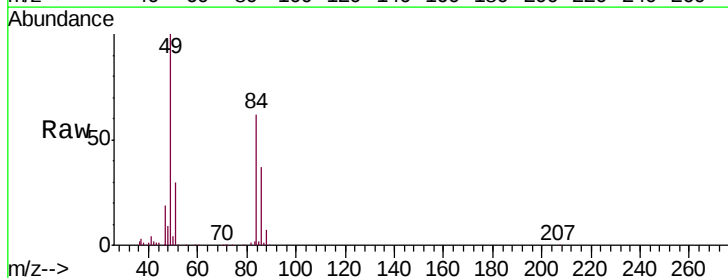
Tgt Ion: 84 Resp: 301482

Ion Ratio Lower Upper

84 100

49 160.4 115.6 214.8

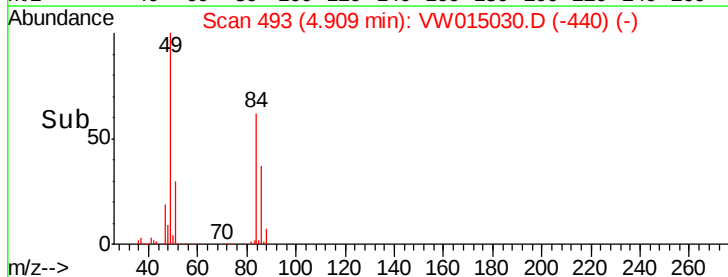
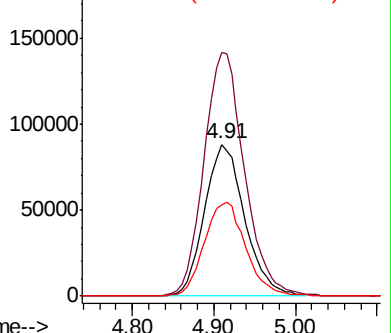
86 60.1 45.9 85.3

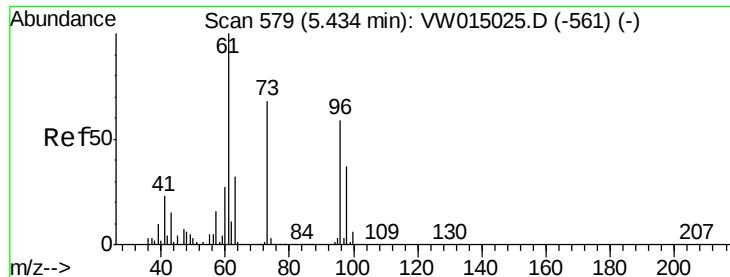


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

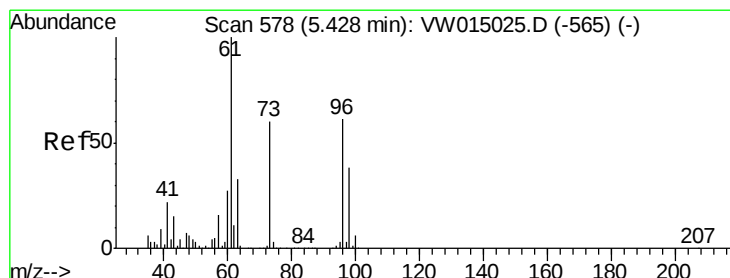
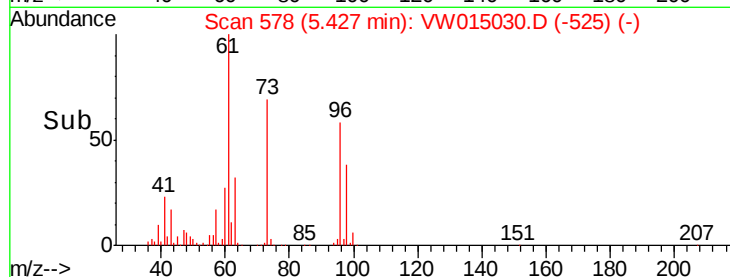
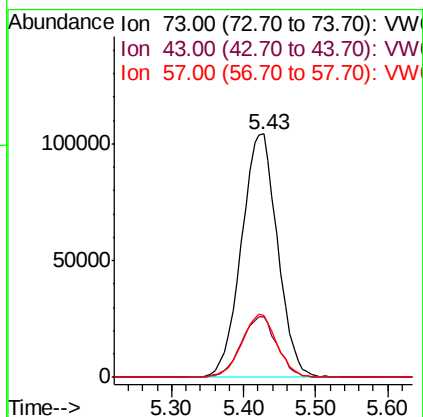
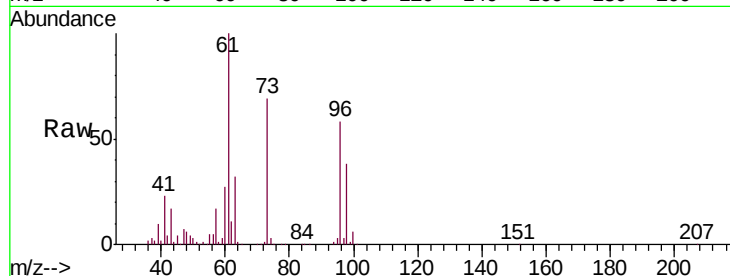




#17  
Methyl tert-butyl Ether  
Concen: 25.791 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

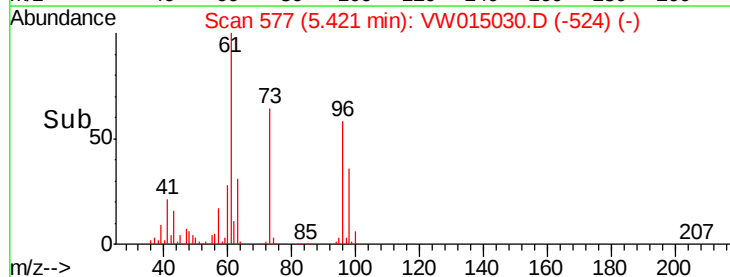
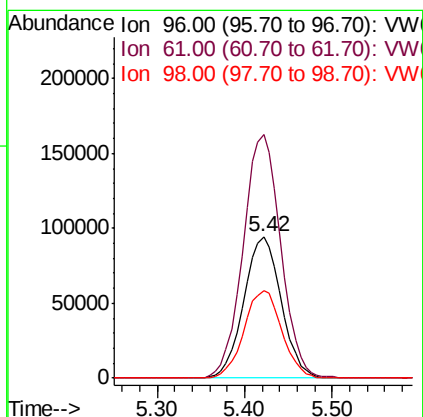
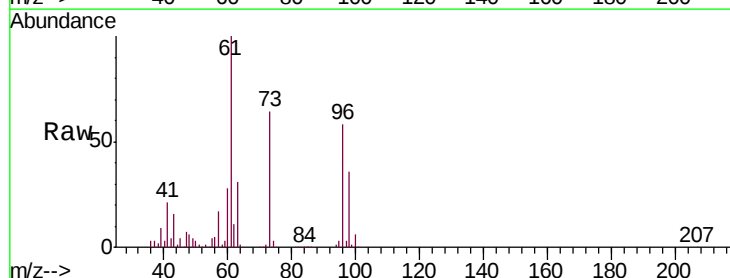
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

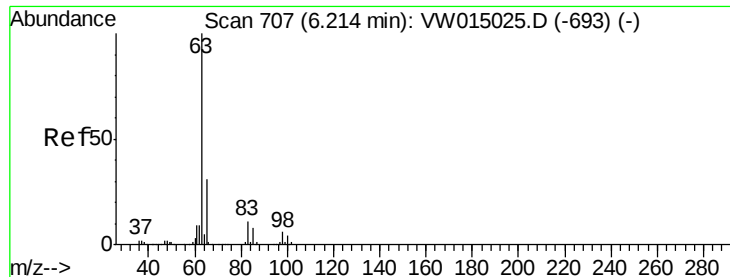
Tgt Ion: 73 Resp: 362081  
Ion Ratio Lower Upper  
73 100  
43 24.4 19.7 29.5  
57 25.3 20.4 30.6



#18  
trans-1,2-Dichloroethene  
Concen: 23.320 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

Tgt Ion: 96 Resp: 279445  
Ion Ratio Lower Upper  
96 100  
61 171.8 115.1 213.8  
98 61.4 44.0 81.6

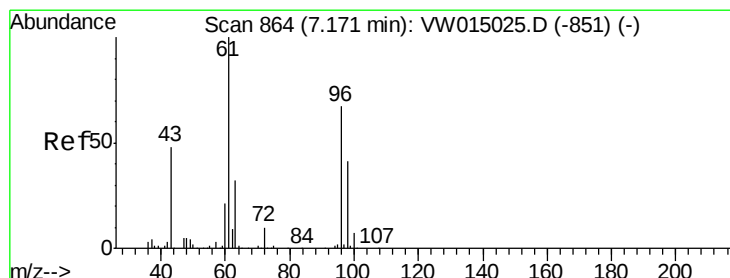
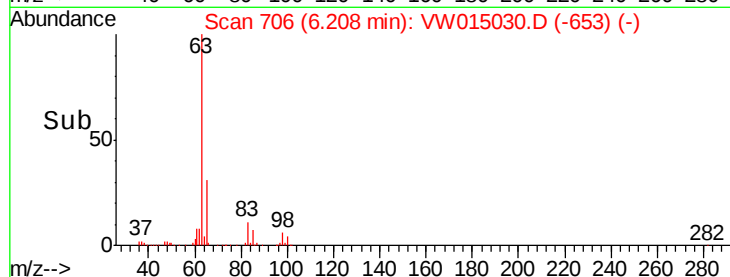
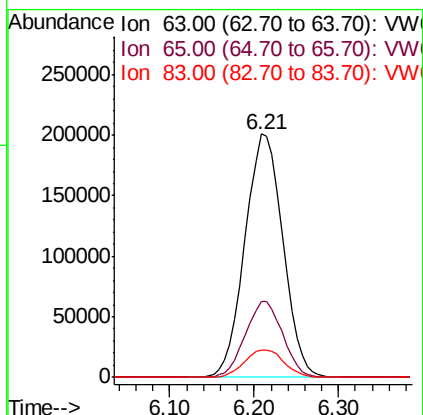
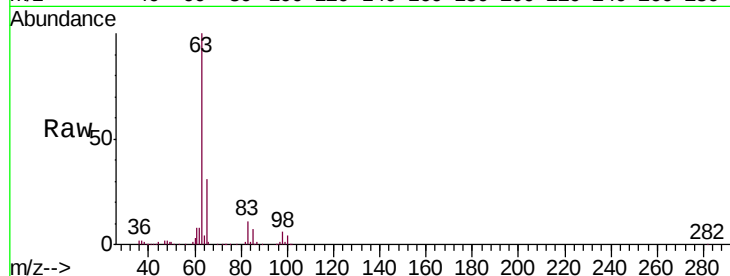




#19  
 1,1-Dichloroethane  
 Concen: 23.123 ug/L  
 RT: 6.21 min Scan# 706  
 Delta R.T. -0.01 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

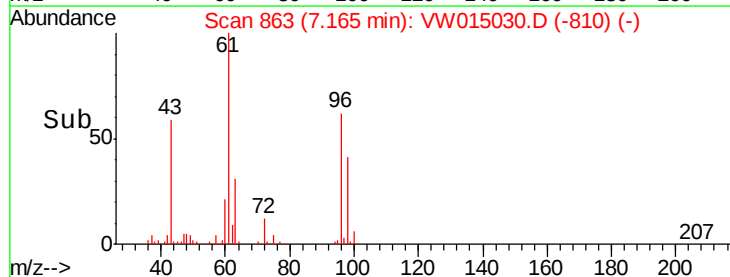
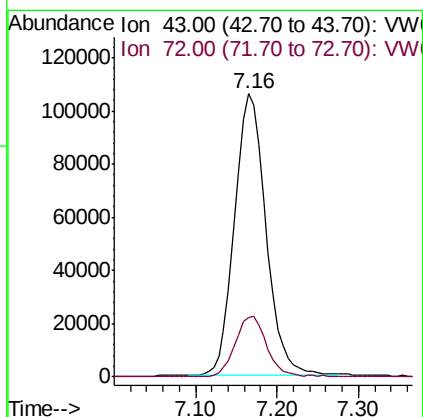
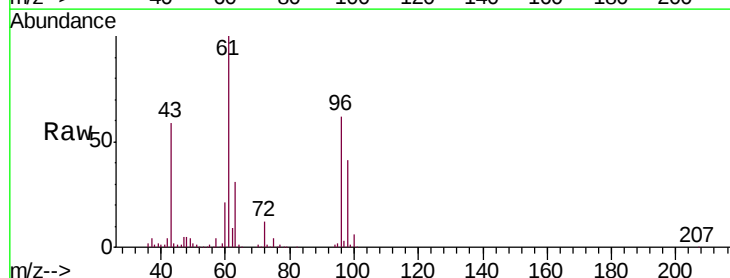
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD02527

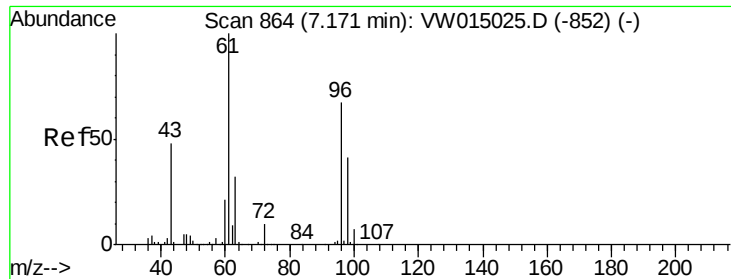
Tgt Ion: 63 Resp: 618001  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 21.9 40.7  
 83 11.4 7.8 14.6



#21  
 2-Butanone  
 Concen: 62.770 ug/L  
 RT: 7.16 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

Tgt Ion: 43 Resp: 283072  
 Ion Ratio Lower Upper  
 43 100  
 72 21.5 10.4 31.4



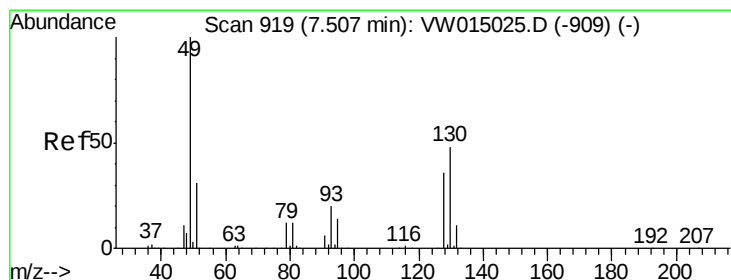
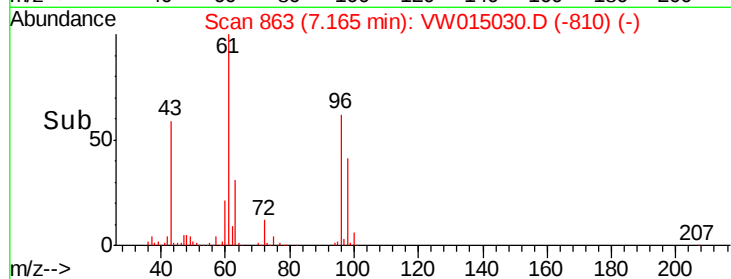
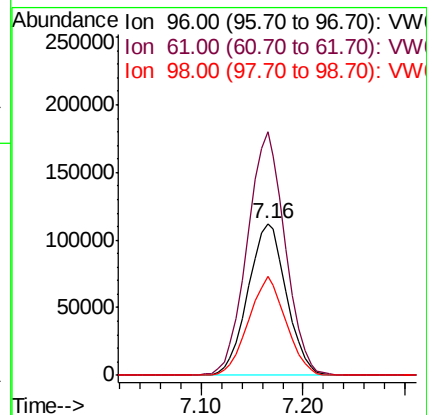
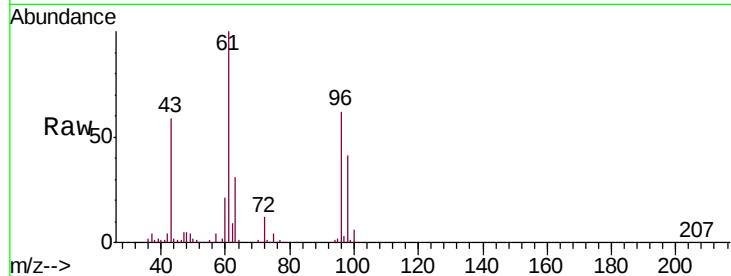


#22

cis-1,2-Dichloroethene  
Concen: 24.010 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

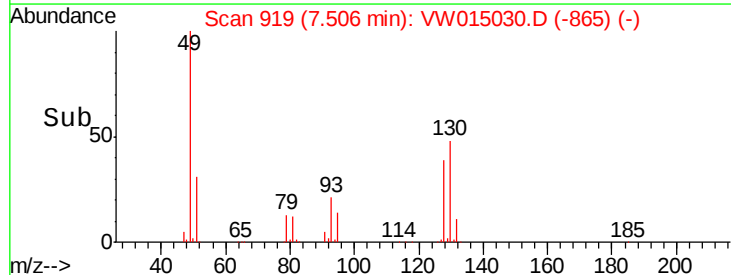
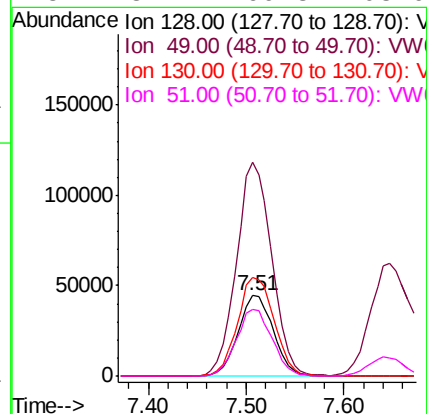
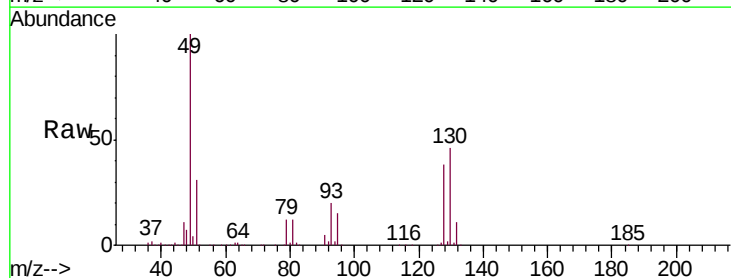
Tgt Ion: 96 Resp: 292800  
Ion Ratio Lower Upper  
96 100  
61 160.5 105.2 195.4  
98 65.1 42.6 79.2

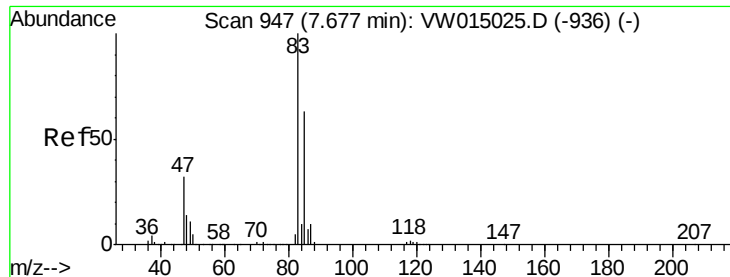


#23

Bromochloromethane  
Concen: 23.454 ug/L  
RT: 7.51 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

Tgt Ion: 128 Resp: 111265  
Ion Ratio Lower Upper  
128 100  
49 265.5 192.7 357.9  
130 122.3 92.7 172.1  
51 82.2 69.3 103.9

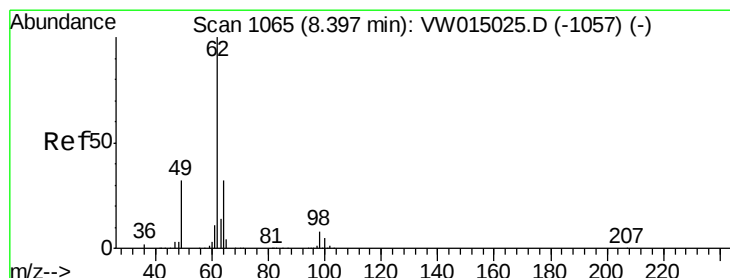
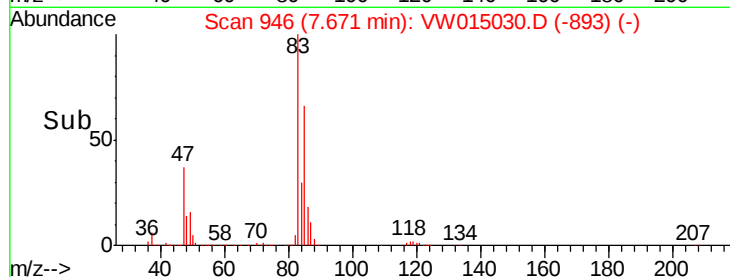
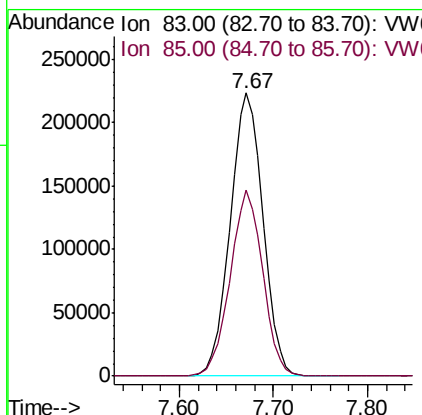
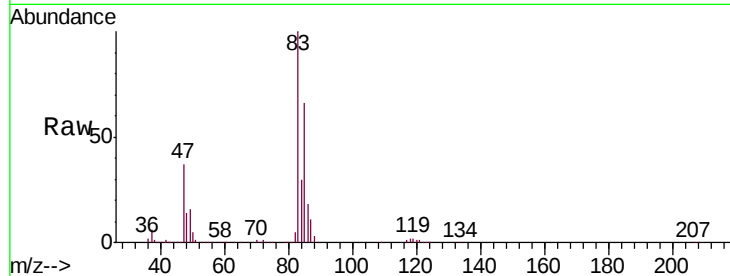




#25  
Chloroform  
Concen: 22.298 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

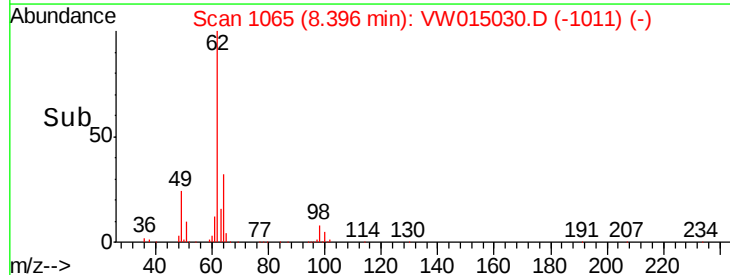
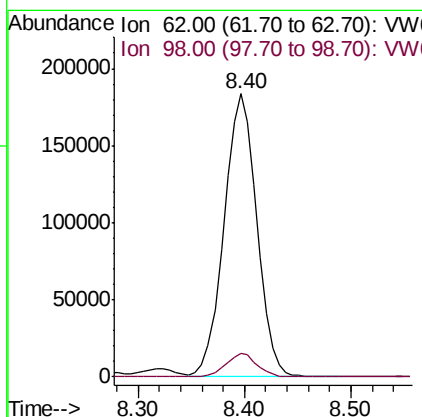
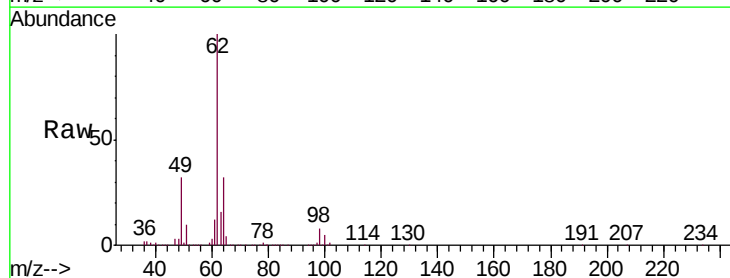
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

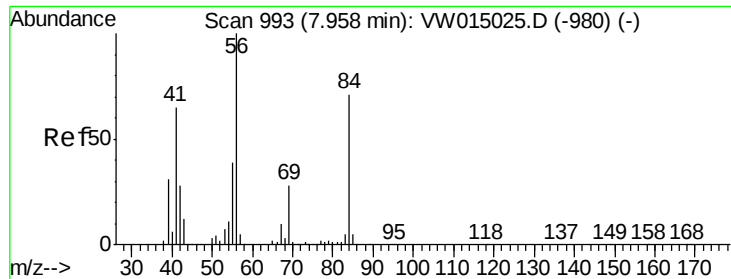
Tgt Ion: 83 Resp: 540823  
Ion Ratio Lower Upper  
83 100  
85 65.3 44.9 83.5



#27  
1,2-Dichloroethane  
Concen: 23.755 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

Tgt Ion: 62 Resp: 394216  
Ion Ratio Lower Upper  
62 100  
98 8.2 6.5 9.7

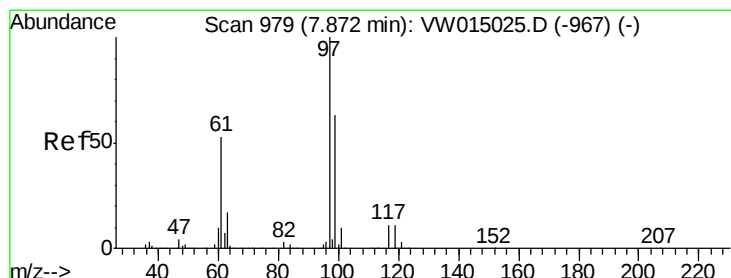
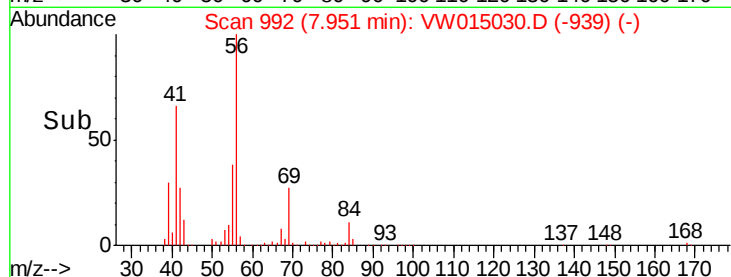
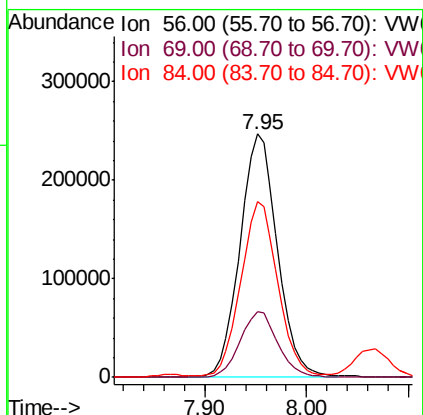
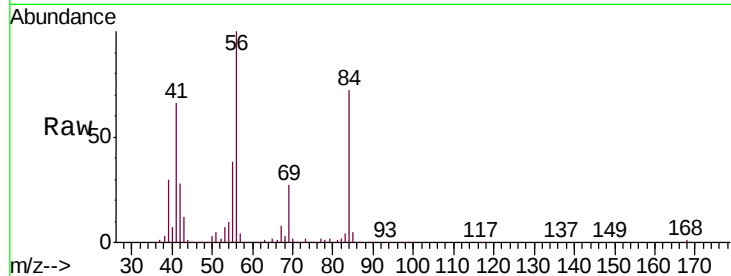




#30  
Cyclohexane  
Concen: 26.669 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

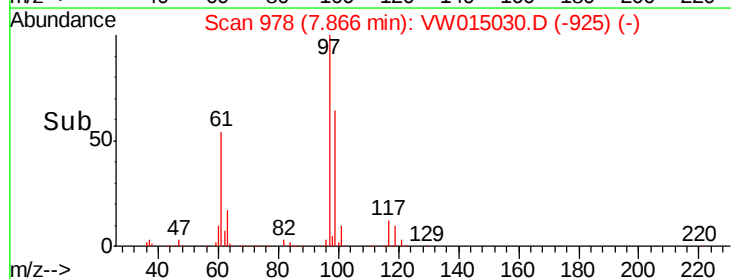
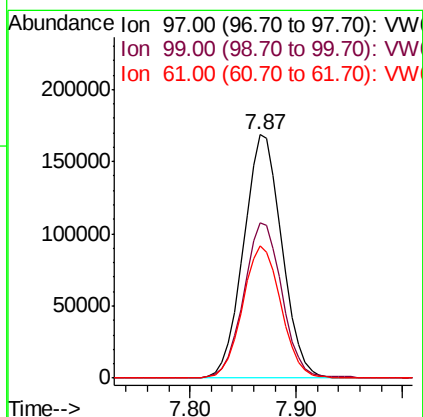
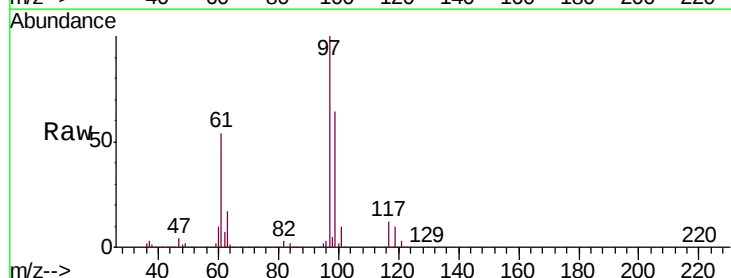
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

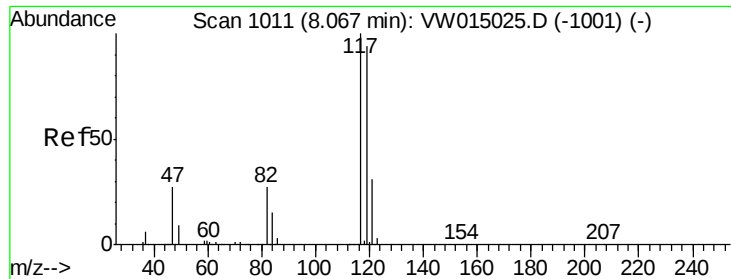
Tgt Ion: 56 Resp: 629127  
Ion Ratio Lower Upper  
56 100  
69 27.0 21.8 32.6  
84 71.7 57.3 85.9



#31  
1,1,1-Trichloroethane  
Concen: 23.421 ug/L  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

Tgt Ion: 97 Resp: 426183  
Ion Ratio Lower Upper  
97 100  
99 63.6 50.6 76.0  
61 54.5 43.1 64.7





#32

Carbon tetrachloride

Concen: 23.561 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

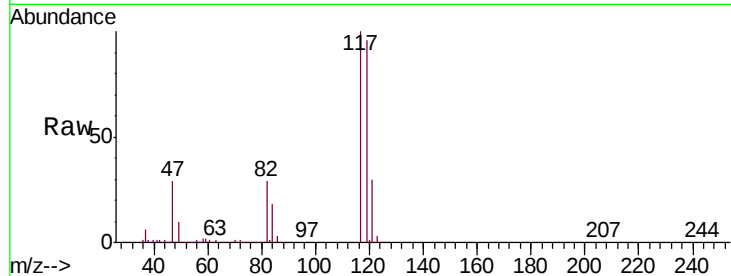
VSTD02527

Tgt Ion:117 Resp: 384188

Ion Ratio Lower Upper

117 100

119 95.2 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

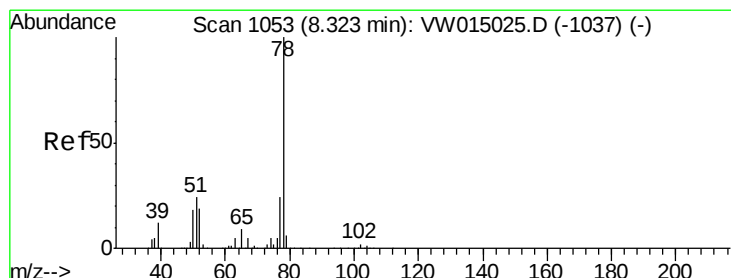
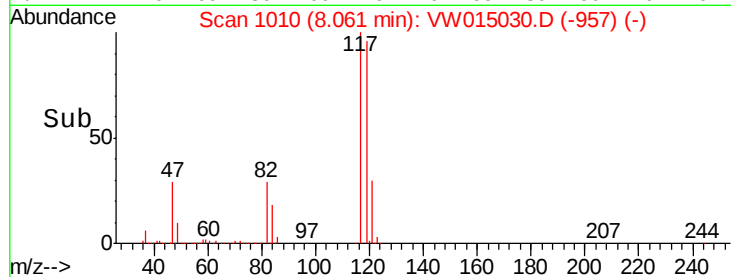
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 24.294 ug/L

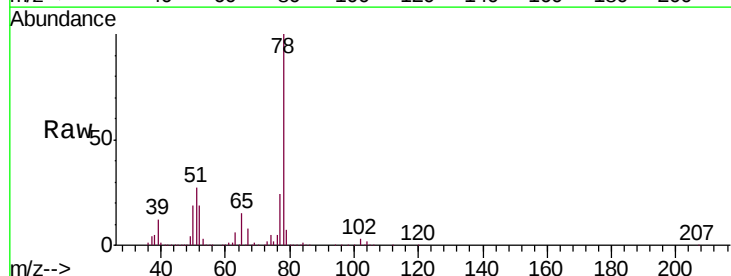
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Tgt Ion: 78 Resp: 1275133



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

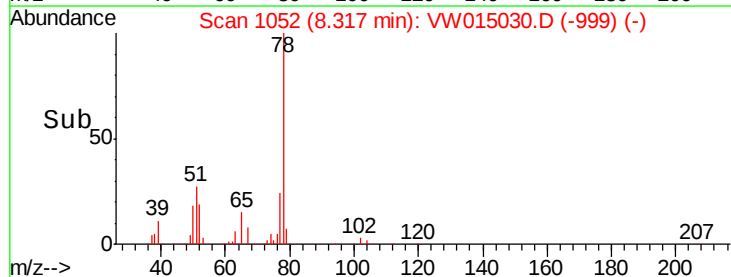
600000

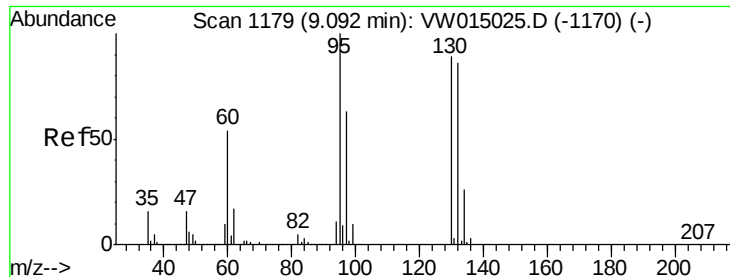
400000

200000

0

Time-->

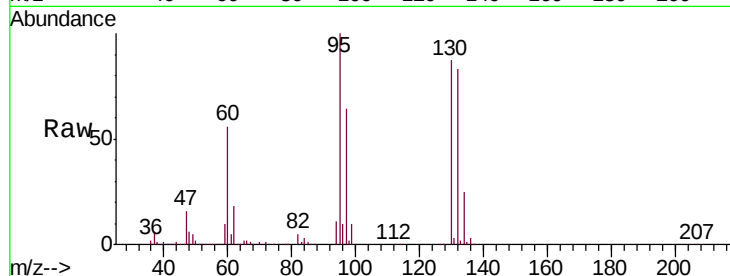




#35  
 Trichloroethene  
 Concen: 23.654 ug/L  
 RT: 9.09 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 300315 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.3  | 44.7  | 83.1   |
| 132      | 82.9  | 58.1  | 107.9  |
| 130      | 87.5  | 62.0  | 115.2  |



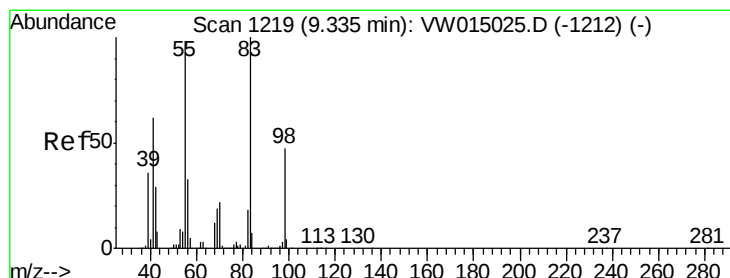
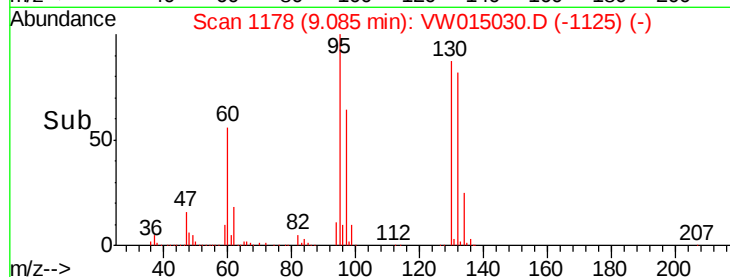
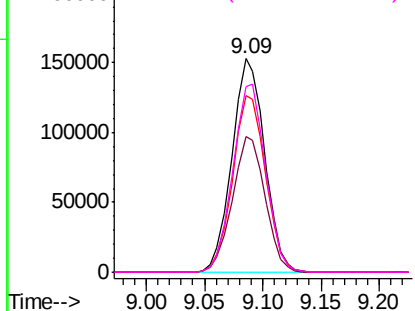
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

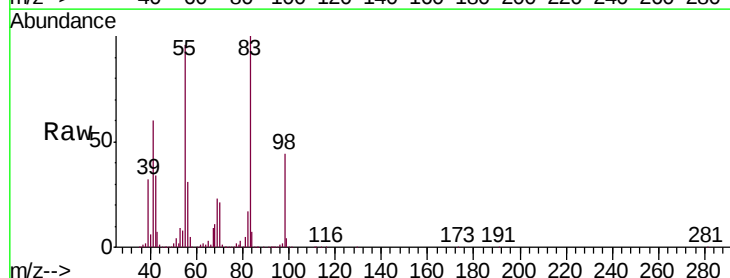
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36  
 Methylcyclohexane  
 Concen: 26.488 ug/L  
 RT: 9.33 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 577483 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 94.5  | 76.6  | 115.0  |
| 98       | 45.0  | 36.6  | 54.8   |

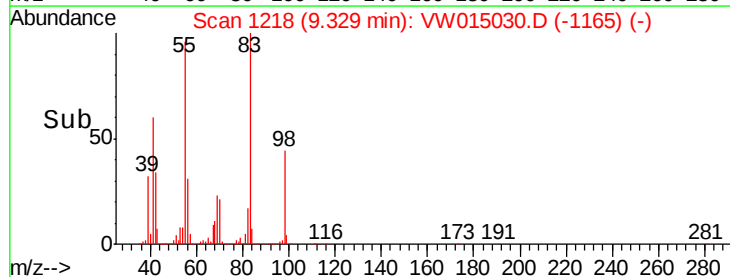
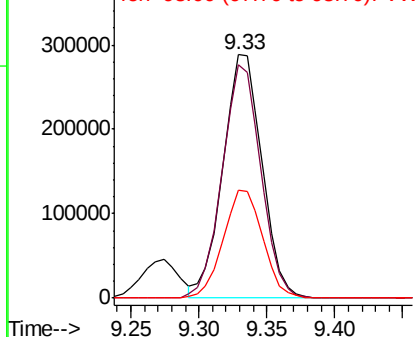


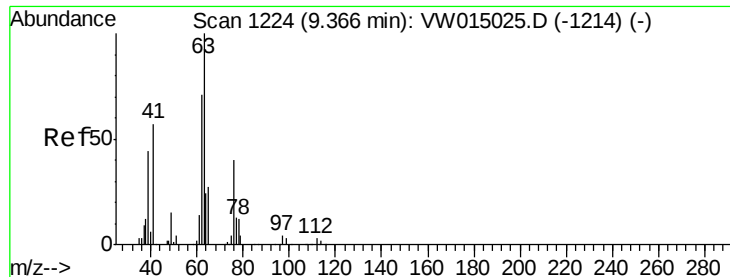
Abundance

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: 23.896 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

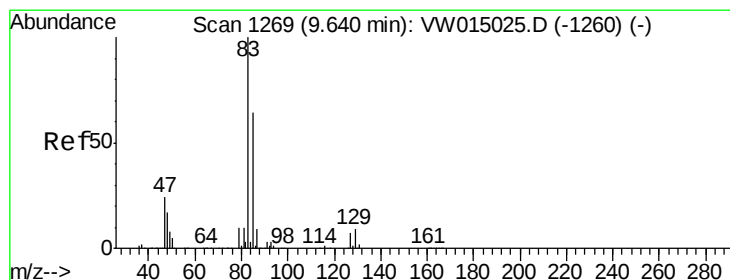
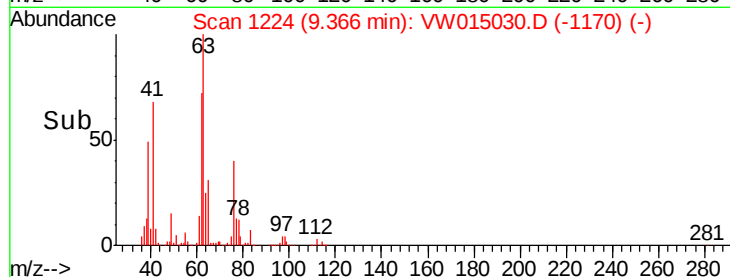
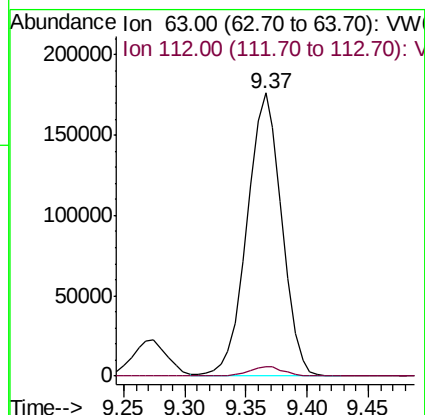
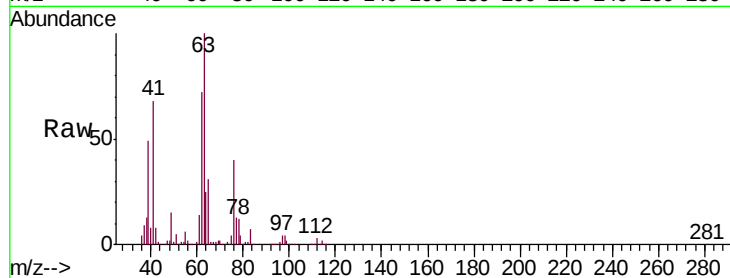
VSTD02527

Tgt Ion: 63 Resp: 348340

Ion Ratio Lower Upper

63 100

112 3.3 2.8 4.2



#41

Bromodichloromethane

Concen: 23.414 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

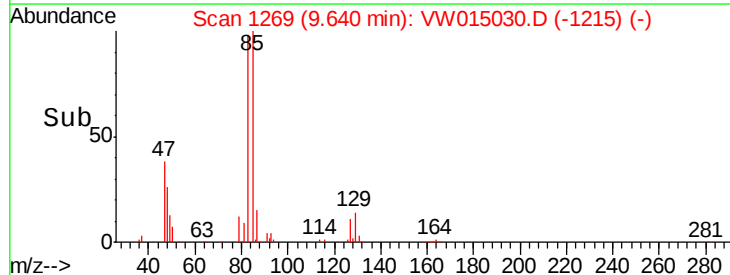
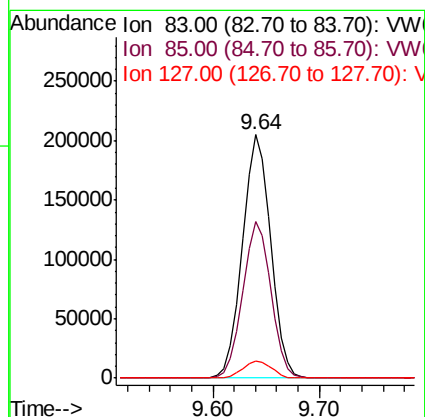
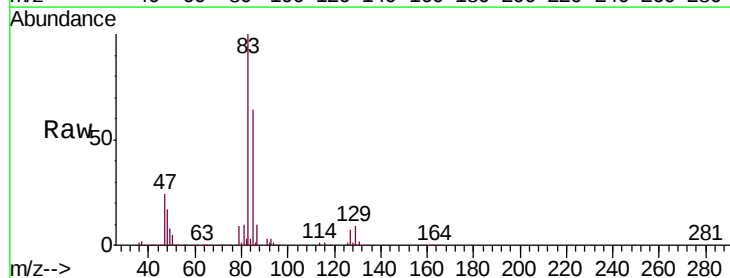
Tgt Ion: 83 Resp: 382853

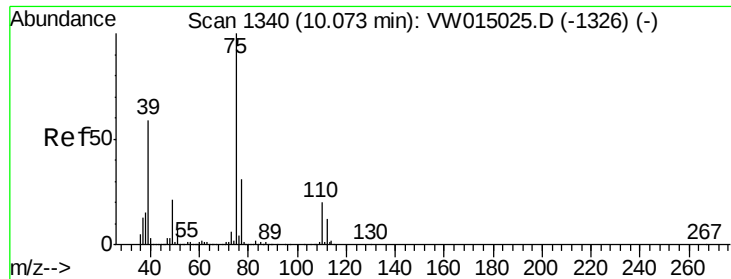
Ion Ratio Lower Upper

83 100

85 64.2 44.7 83.1

127 7.1 5.4 8.0





#42

cis-1,3-Dichloropropene

Concen: 25.688 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampled :

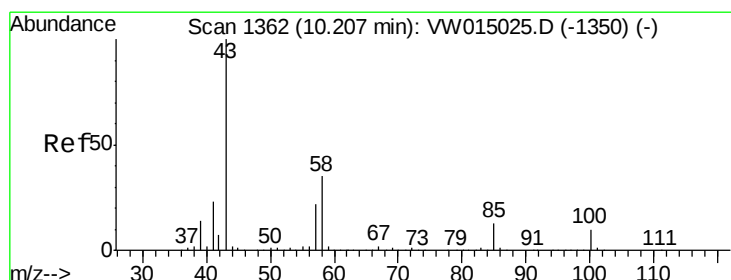
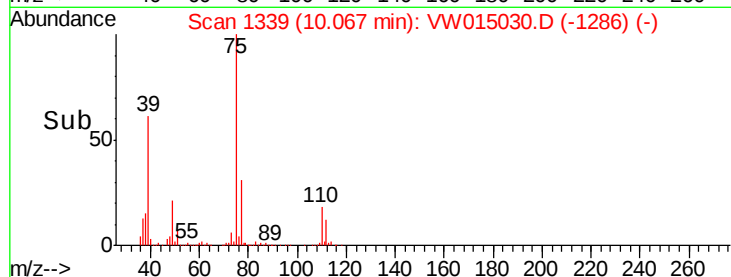
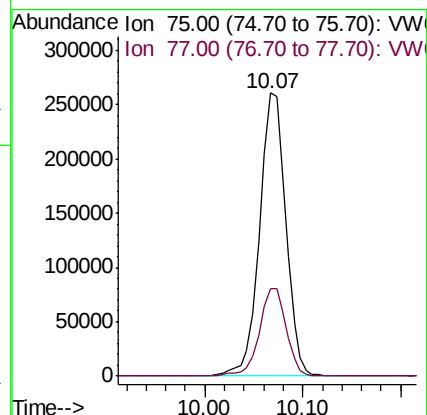
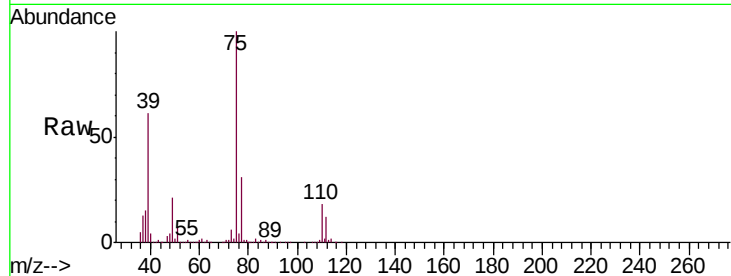
VSTD02527

Tgt Ion: 75 Resp: 487955

Ion Ratio Lower Upper

75 100

77 30.8 21.9 40.7



#43

4-Methyl-2-pentanone

Concen: 58.443 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

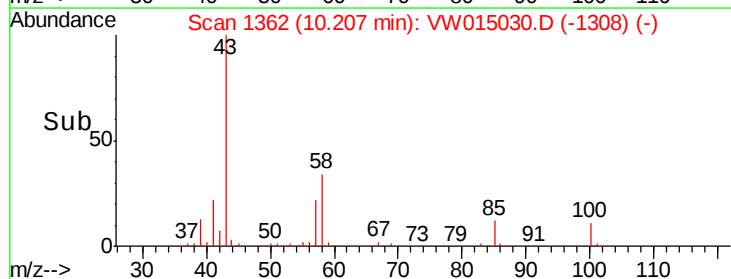
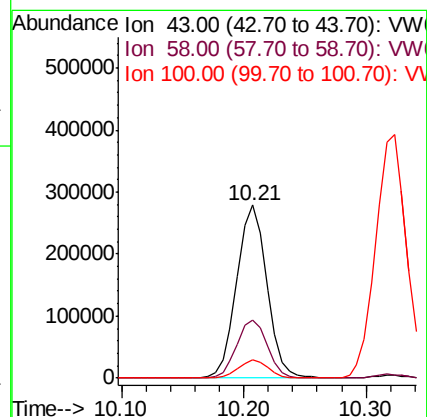
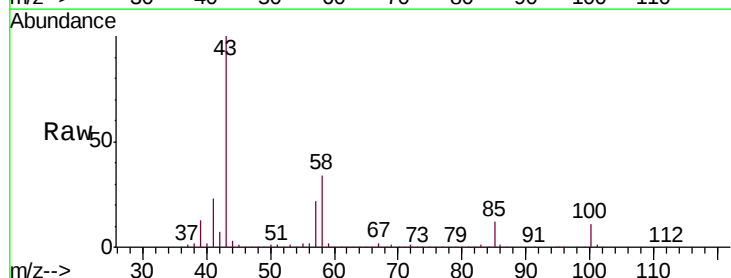
Tgt Ion: 43 Resp: 476510

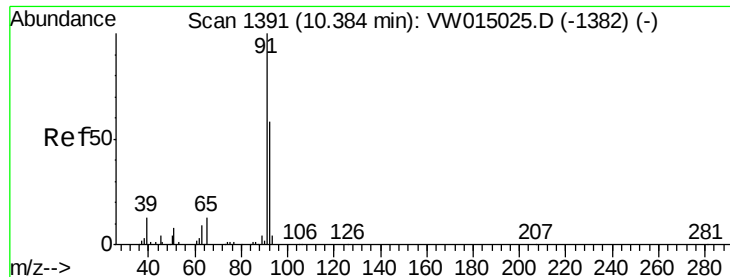
Ion Ratio Lower Upper

43 100

58 34.4 27.6 41.4

100 10.5 8.6 13.0





#44

Toluene

Concen: 24.945 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

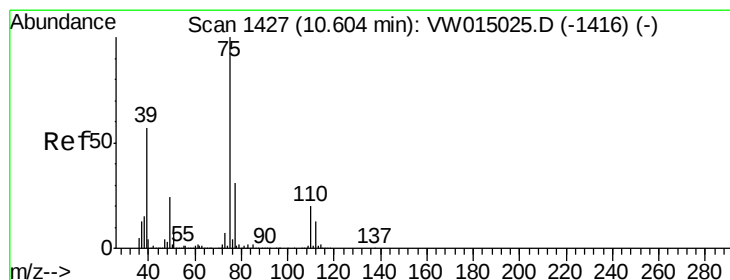
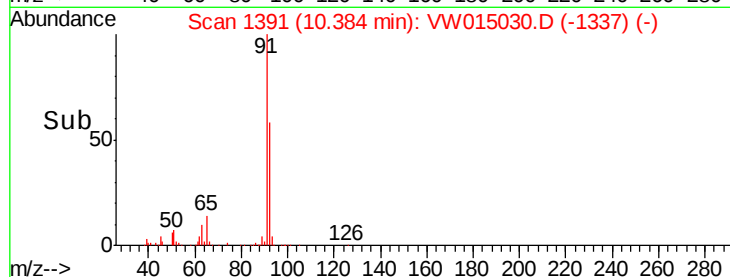
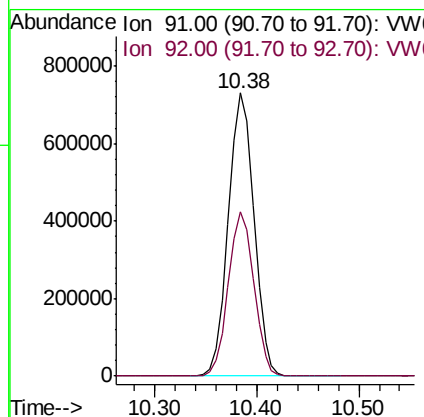
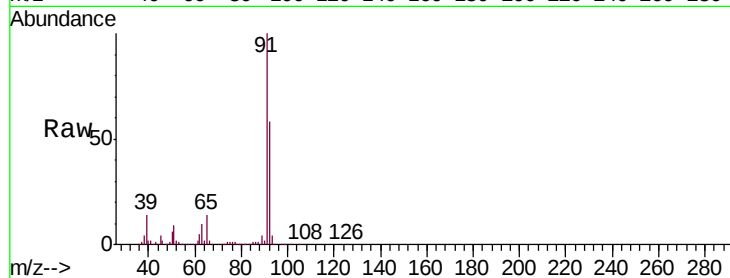
VSTD02527

Tgt Ion: 91 Resp: 1271580

Ion Ratio Lower Upper

91 100

92 58.1 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 25.687 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015030.D

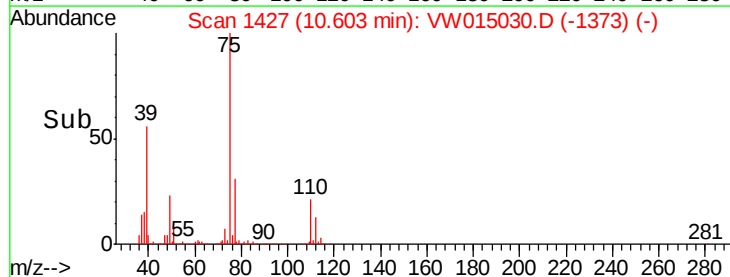
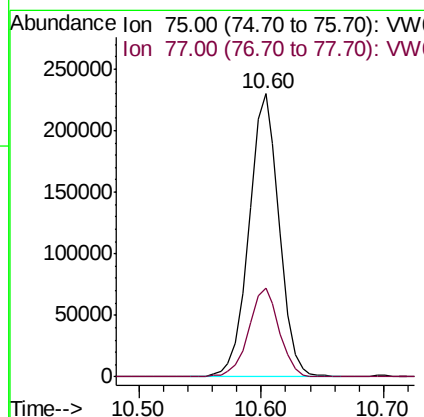
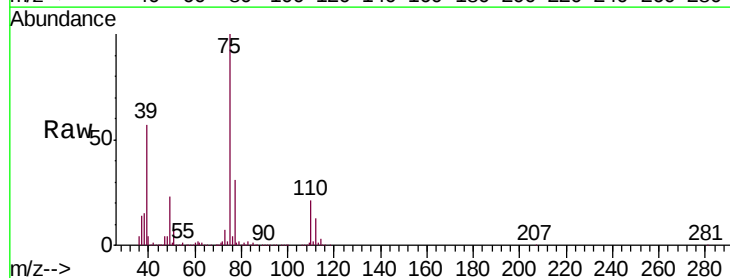
Acq: 25 Feb 2020 12:08

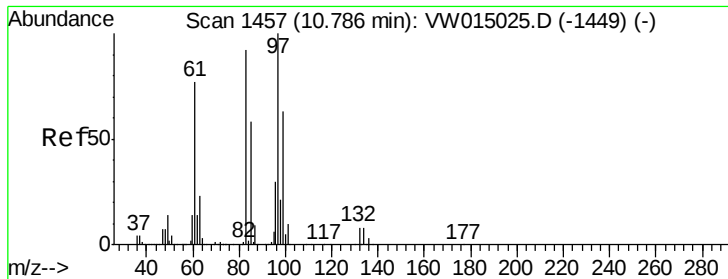
Tgt Ion: 75 Resp: 394370

Ion Ratio Lower Upper

75 100

77 31.4 21.6 40.2





#46

1,1,2-Trichloroethane

Concen: 24.533 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02527

Tgt Ion: 97 Resp: 201246

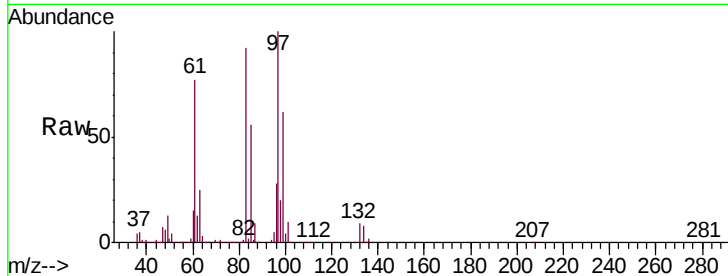
Ion Ratio Lower Upper

97 100

83 92.3 64.4 119.6

85 55.7 40.9 75.9

99 62.1 44.1 81.9

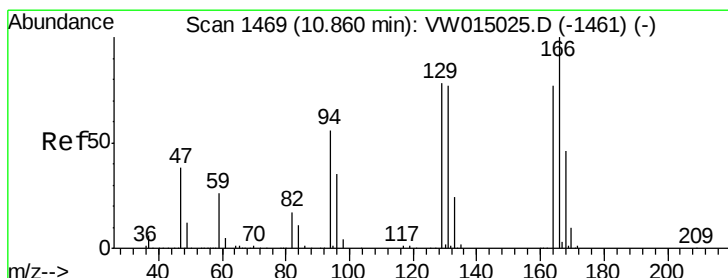
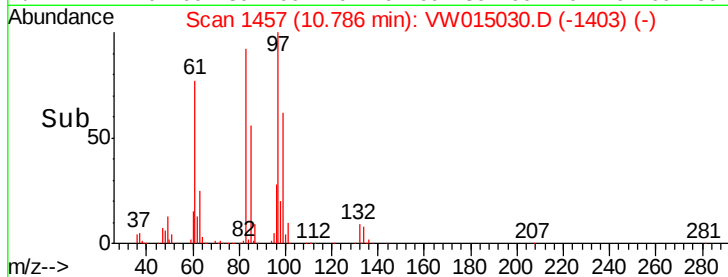
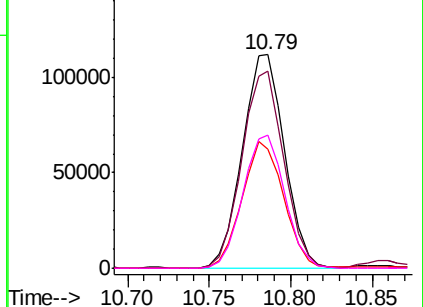


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 23.859 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Tgt Ion: 164 Resp: 195238

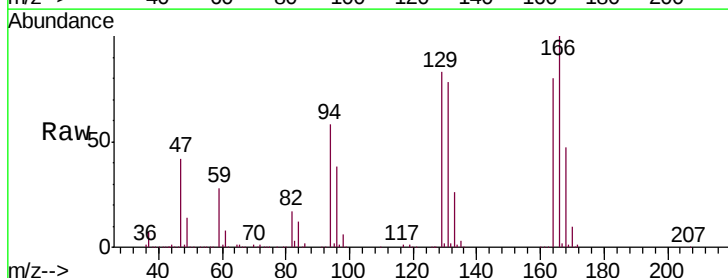
Ion Ratio Lower Upper

164 100

129 102.8 71.7 133.1

131 97.0 70.1 130.3

166 124.5 91.3 169.6

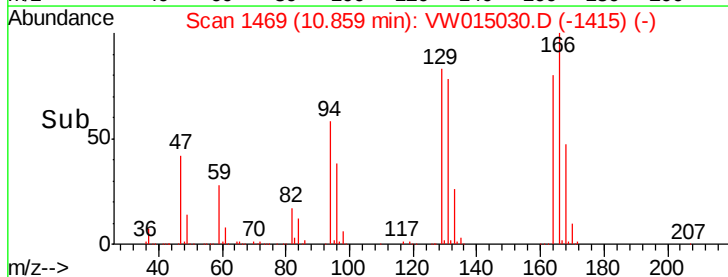
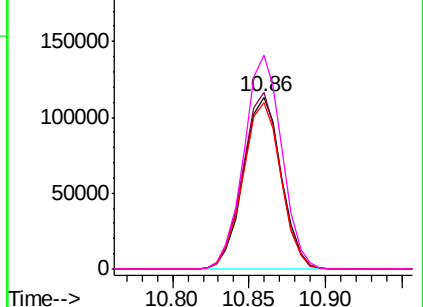


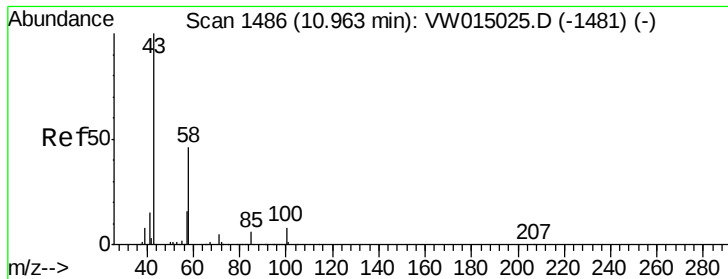
Abundance Ion 164.00 (163.70 to 164.70): V

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

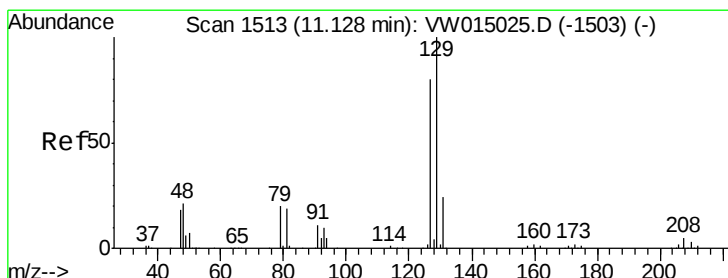
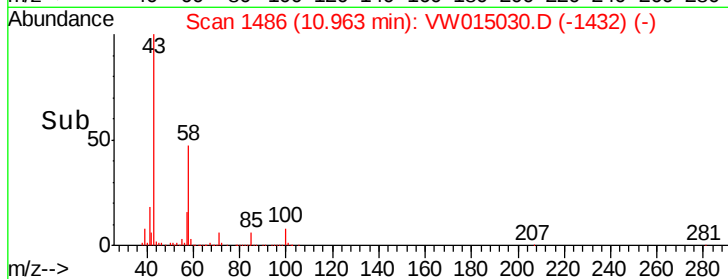
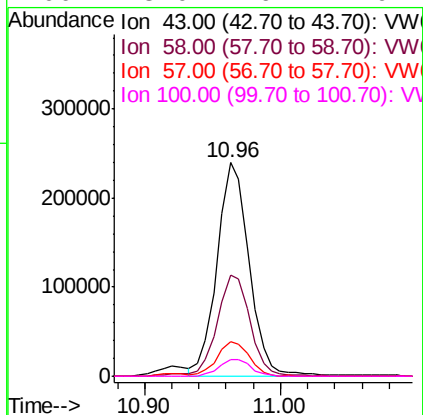
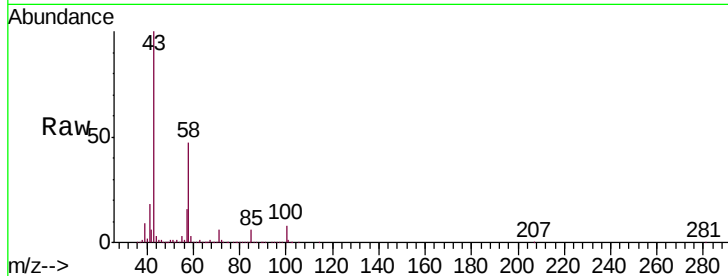




#49  
2-Hexanone  
Concen: 66.551 ug/L  
RT: 10.96 min Scan# 1486  
Delta R.T. -0.00 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

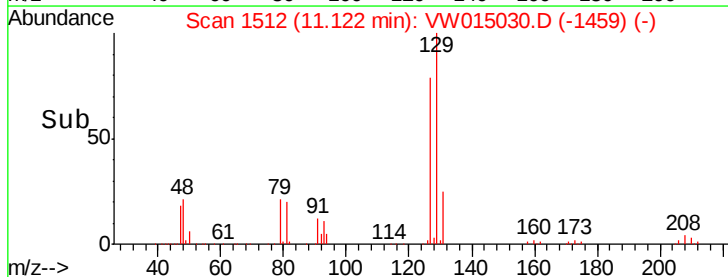
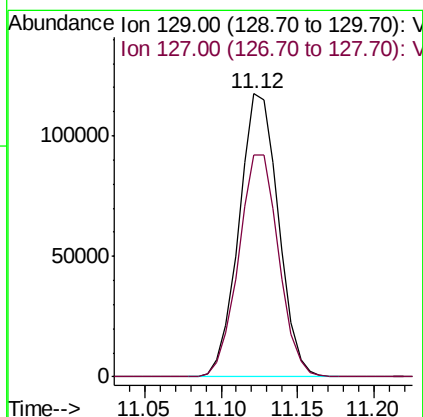
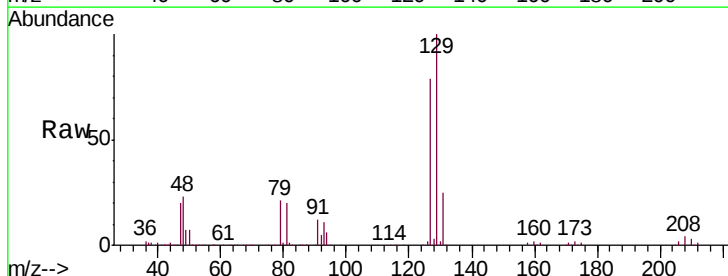
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02527

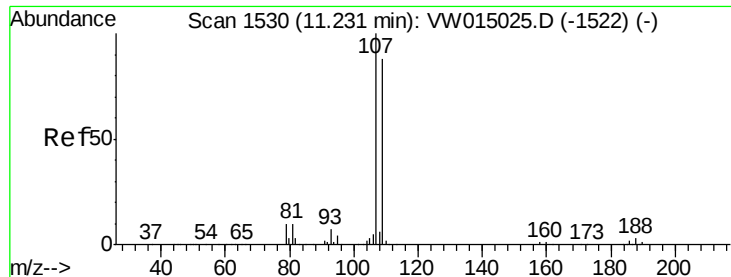
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 393384 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 48.0  | 38.9  | 58.3   |
| 57       | 15.6  | 13.4  | 20.2   |
| 100      | 8.0   | 6.7   | 10.1   |



#50  
Dibromochloromethane  
Concen: 24.101 ug/L  
RT: 11.12 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VW015030.D  
Acq: 25 Feb 2020 12:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 210400 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.6  | 56.4  | 104.7  |

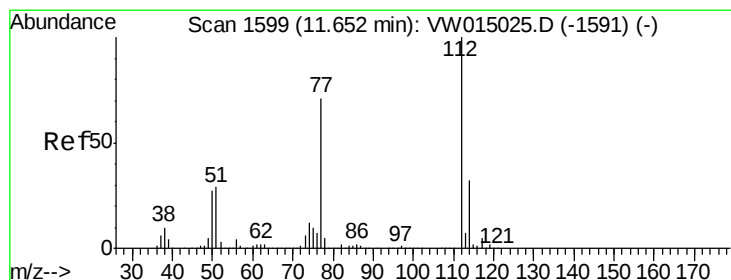
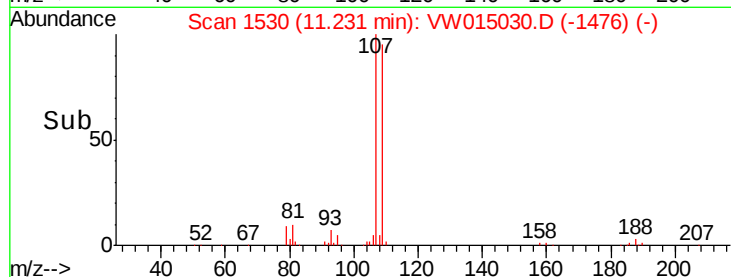
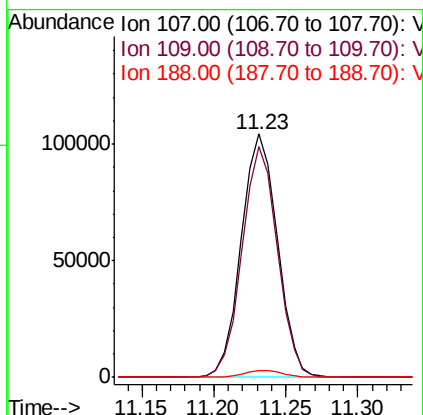
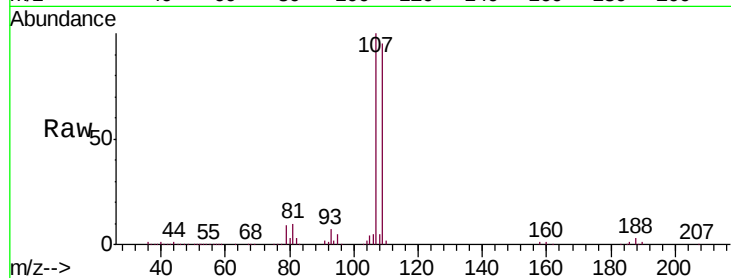




#51  
 1,2-Dibromoethane  
 Concen: 25.412 ug/L  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

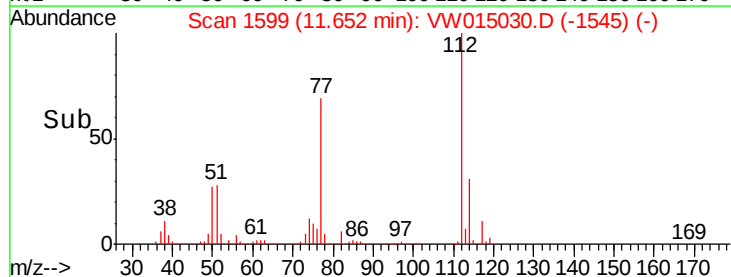
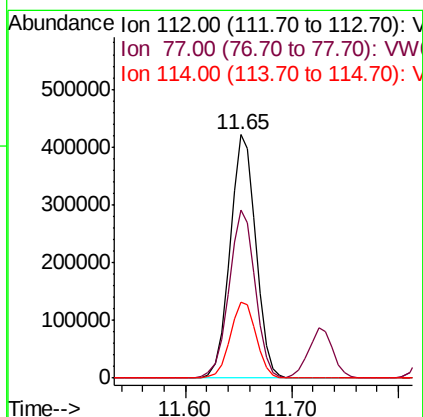
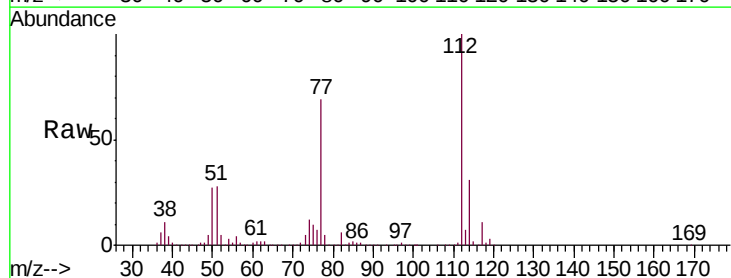
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

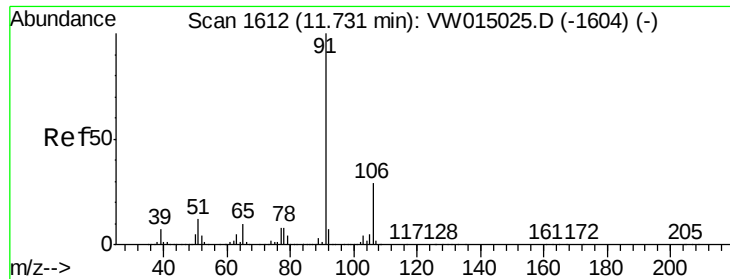
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.0  | 61.9  | 114.9 |
| 188     | 2.8   | 2.5   | 3.7   |



#52  
 Chlorobenzene  
 Concen: 23.740 ug/L  
 RT: 11.65 min Scan# 1599  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 69.0  | 57.0  | 85.6  |
| 114     | 31.3  | 22.5  | 41.9  |





#53

Ethylbenzene

Concen: 25.323 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

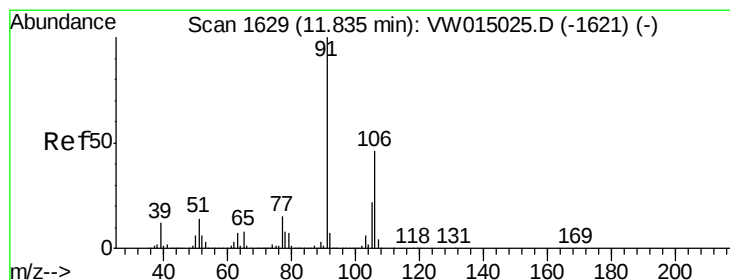
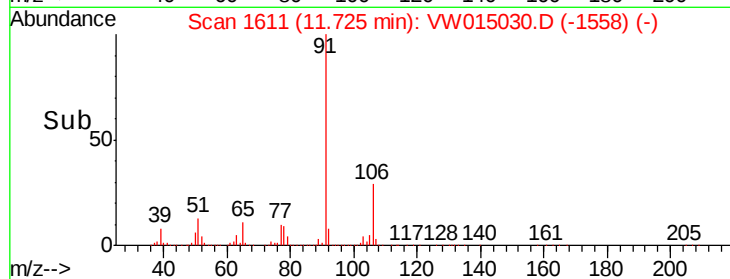
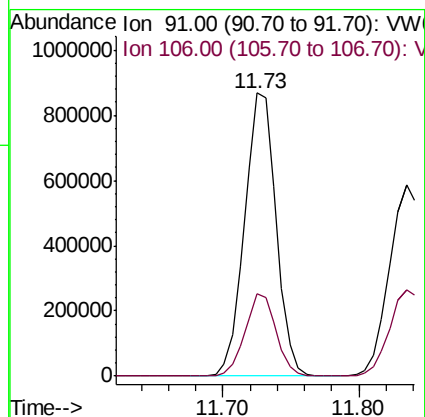
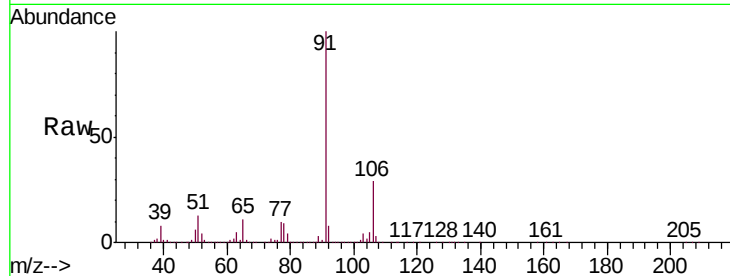
VSTD02527

Tgt Ion: 91 Resp: 1410132

Ion Ratio Lower Upper

91 100

106 29.3 20.1 37.3



#54

m,p-Xylene

Concen: 25.719 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW015030.D

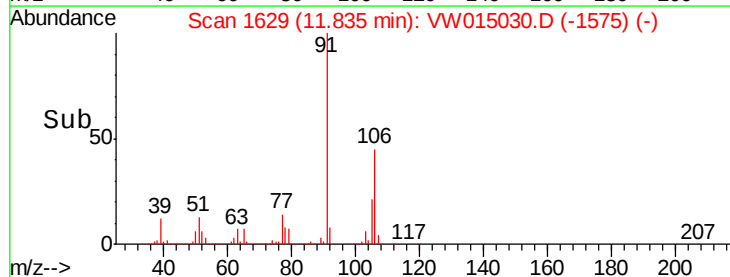
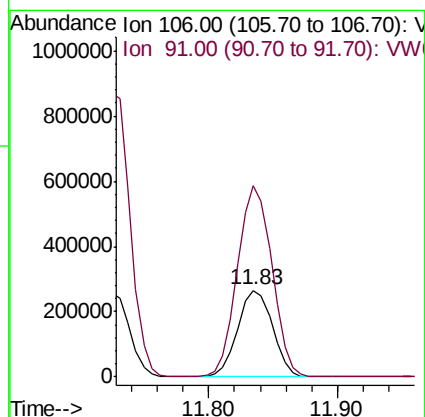
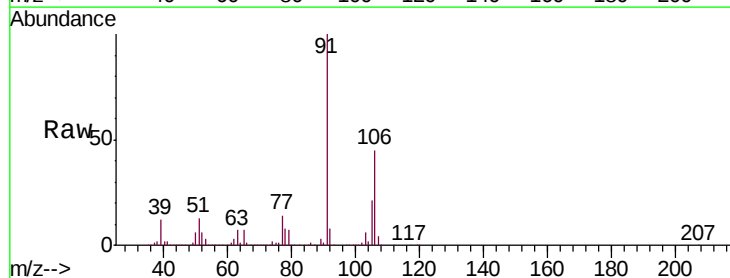
Acq: 25 Feb 2020 12:08

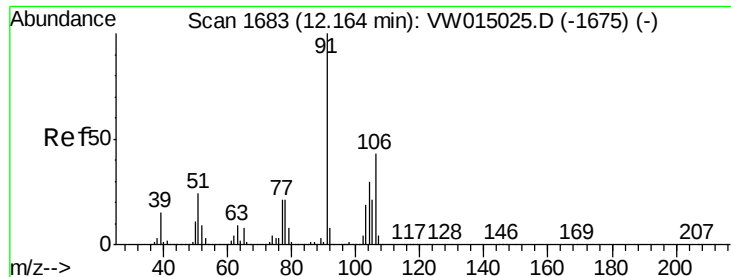
Tgt Ion: 106 Resp: 501087

Ion Ratio Lower Upper

106 100

91 220.4 151.4 281.2





#55

o-xylene

Concen: 25.571 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

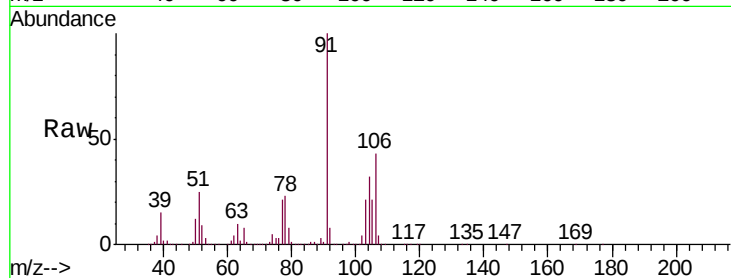
VSTD02527

Tgt Ion:106 Resp: 464199

Ion Ratio Lower Upper

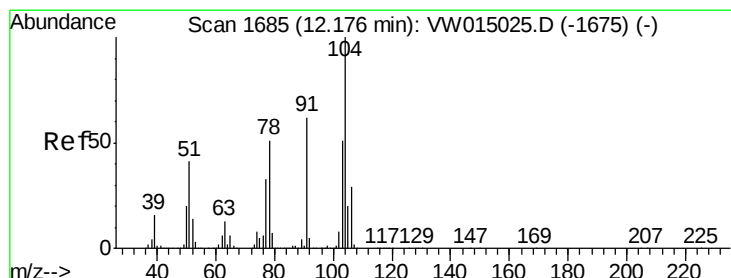
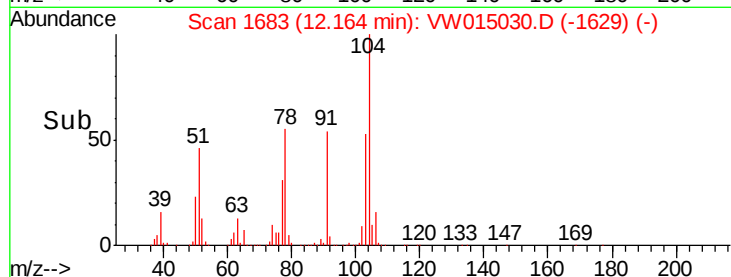
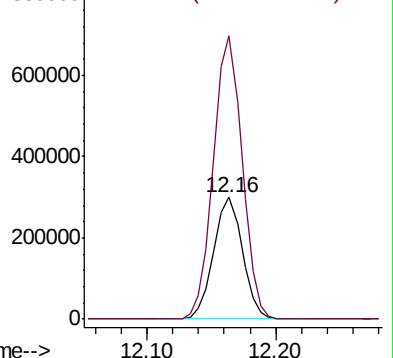
106 100

91 232.9 162.5 301.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.707 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW015030.D

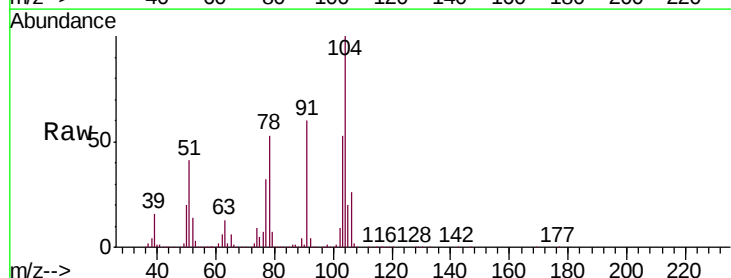
Acq: 25 Feb 2020 12:08

Tgt Ion:104 Resp: 799303

Ion Ratio Lower Upper

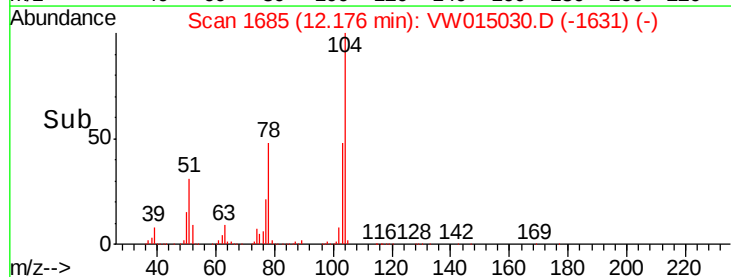
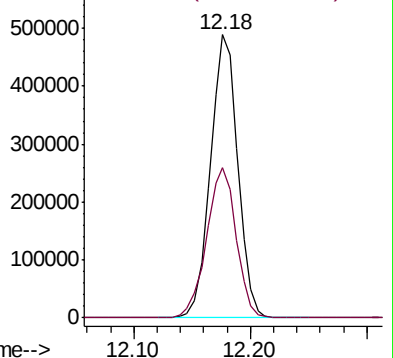
104 100

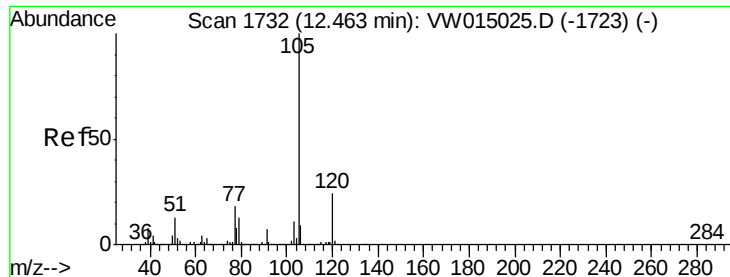
78 53.0 35.6 66.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.259 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02527

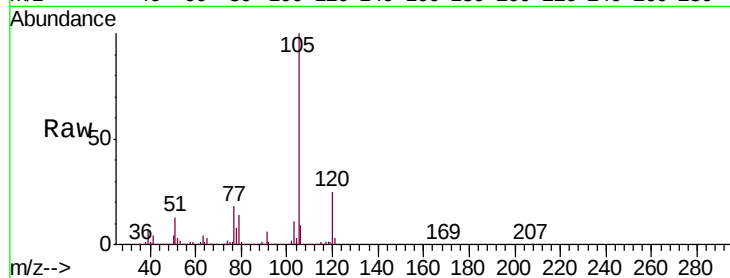
Tgt Ion: 105 Resp: 1298233

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

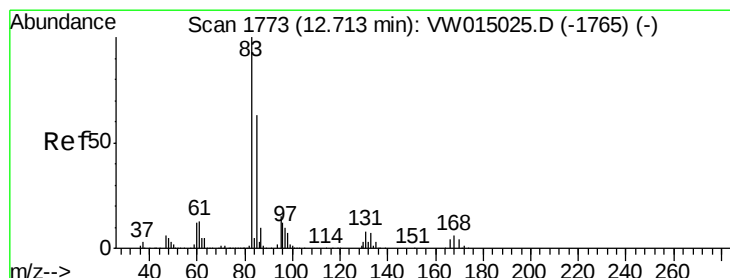
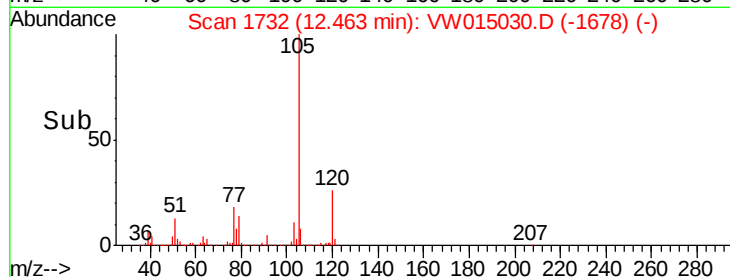
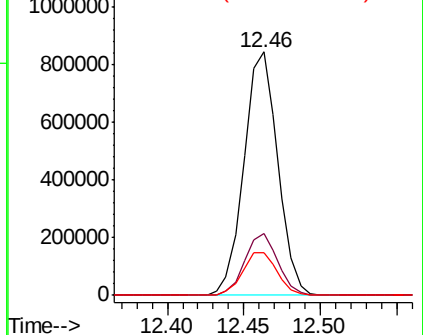
77 18.2 14.4 21.6



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: 25.377 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

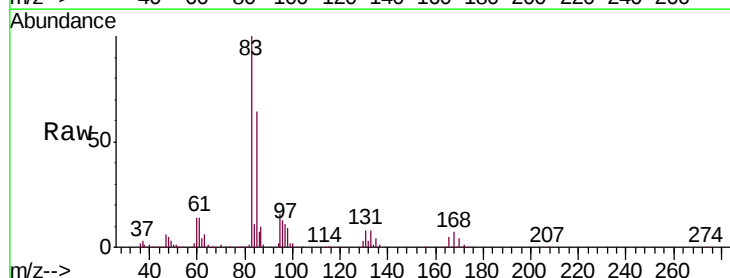
Tgt Ion: 83 Resp: 262660

Ion Ratio Lower Upper

83 100

85 63.9 44.2 82.0

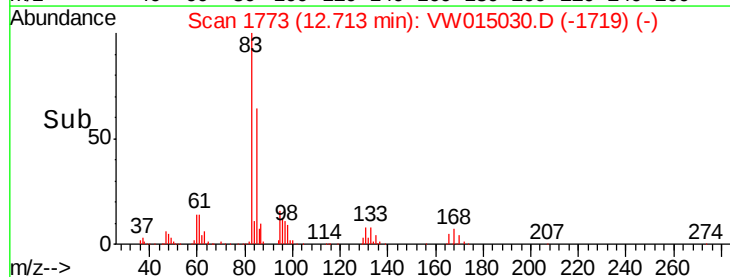
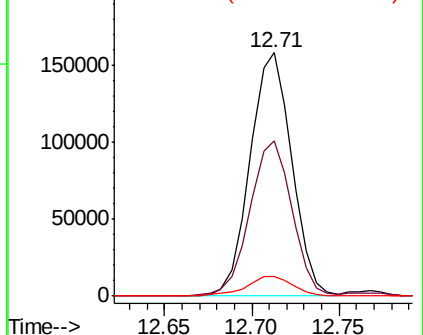
131 8.0 6.3 9.5

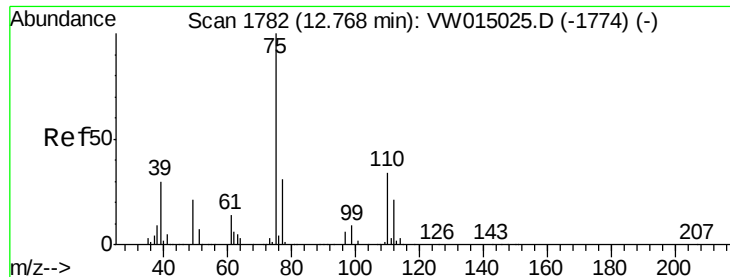


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.572 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

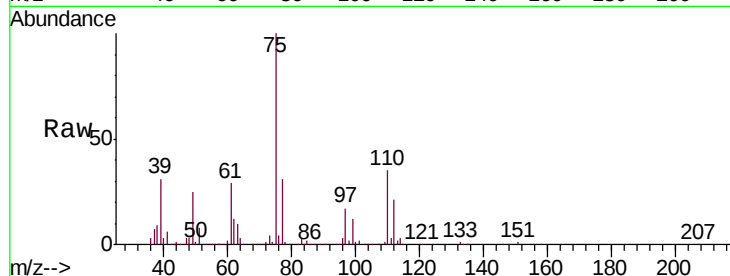
VSTD02527

Tgt Ion: 75 Resp: 203432

Ion Ratio Lower Upper

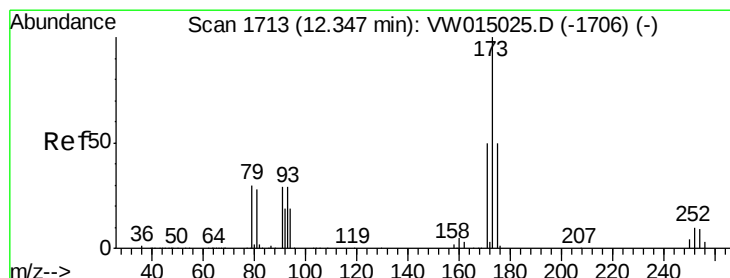
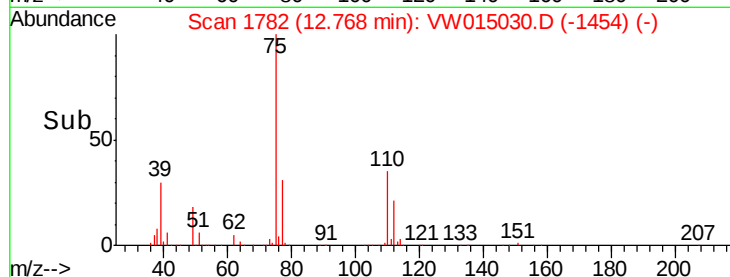
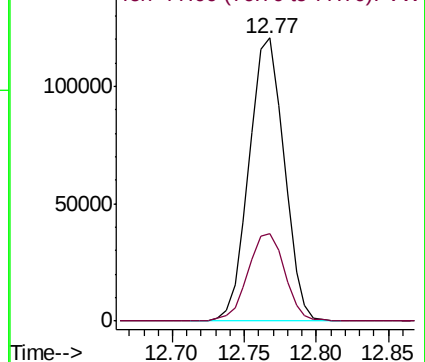
75 100

77 32.8 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 24.214 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

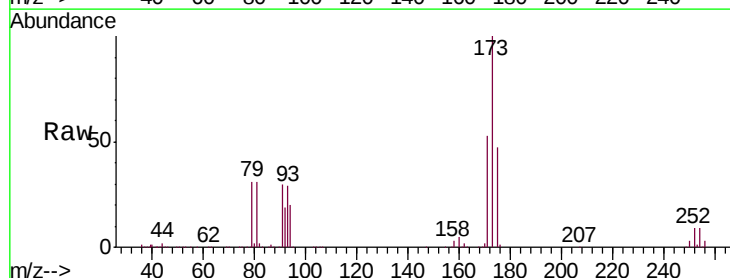
Tgt Ion: 173 Resp: 107475

Ion Ratio Lower Upper

173 100

175 47.7 38.7 58.1

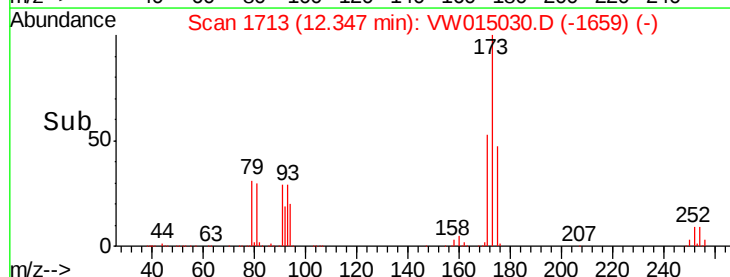
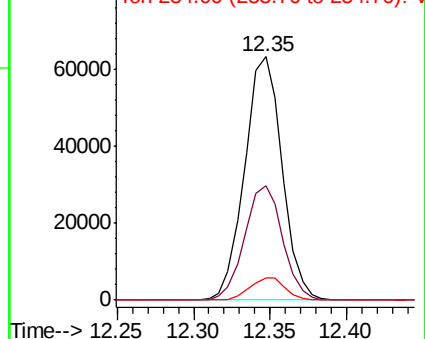
254 8.6 7.0 10.4

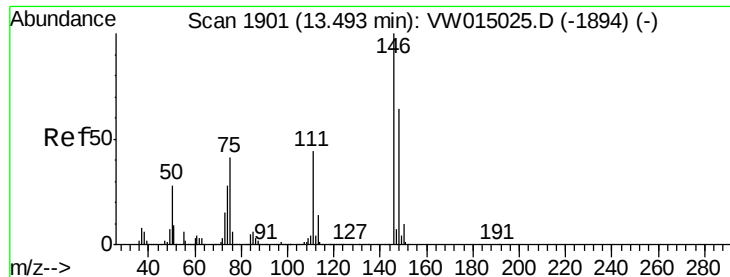


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

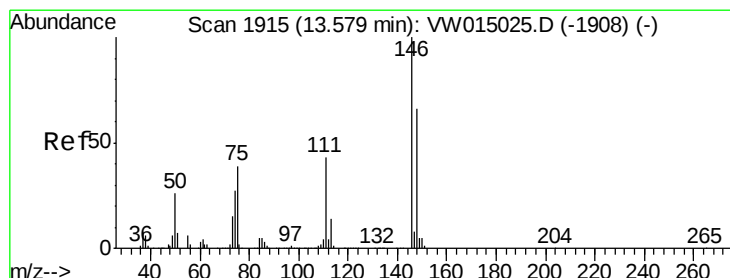
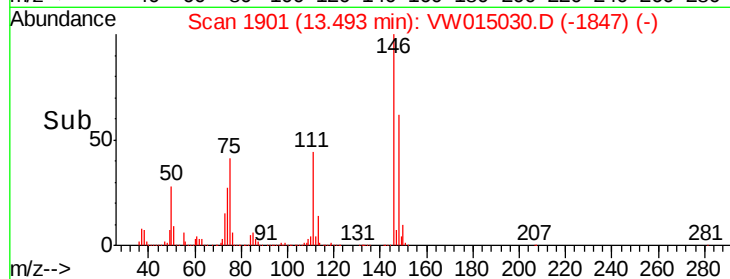
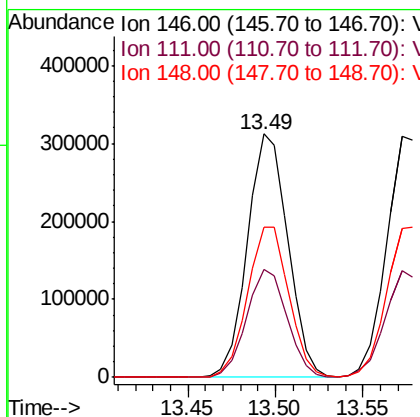
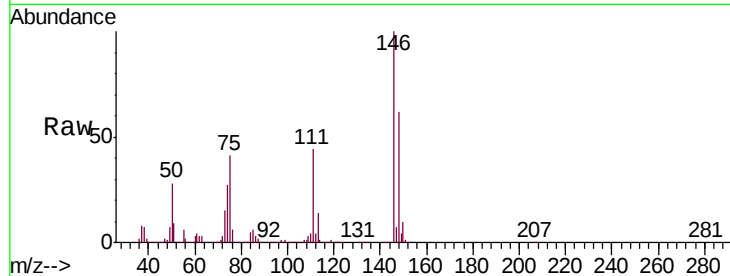




#63  
 1,3-Dichlorobenzene  
 Concen: 24.424 ug/L  
 RT: 13.49 min Scan# 1901  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

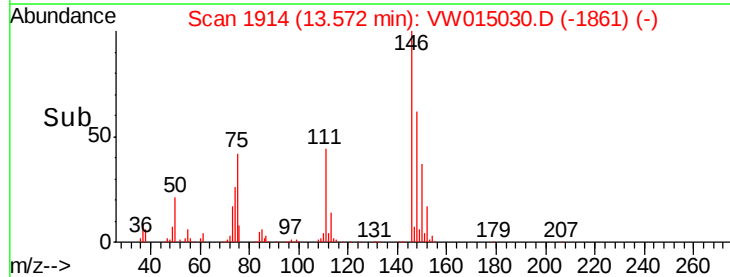
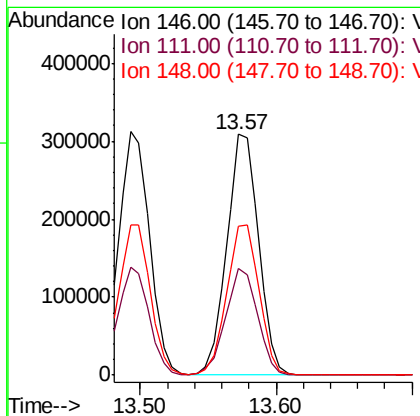
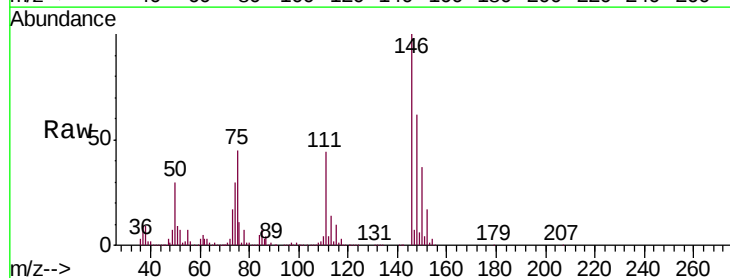
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

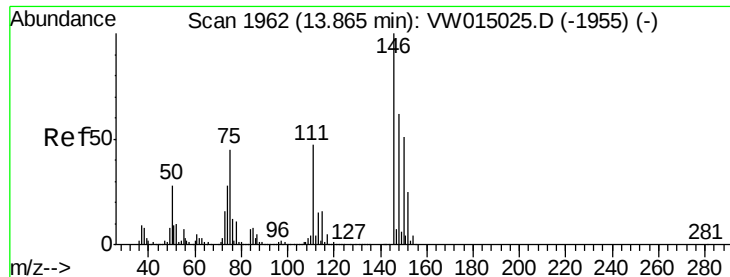
Tgt Ion:146 Resp: 503148  
 Ion Ratio Lower Upper  
 146 100  
 111 44.2 30.9 57.3  
 148 61.9 44.6 82.8



#64  
 1,4-Dichlorobenzene  
 Concen: 23.708 ug/L  
 RT: 13.57 min Scan# 1914  
 Delta R.T. -0.01 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

Tgt Ion:146 Resp: 502842  
 Ion Ratio Lower Upper  
 146 100  
 111 44.4 29.9 55.5  
 148 62.0 46.1 85.5

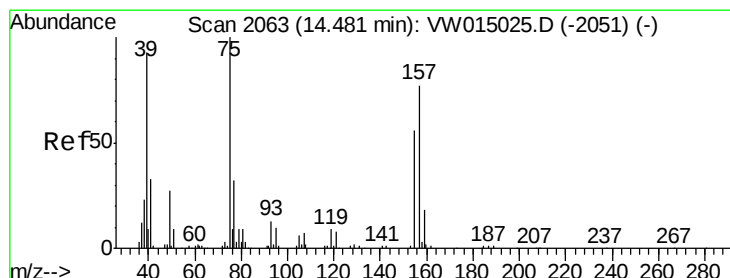
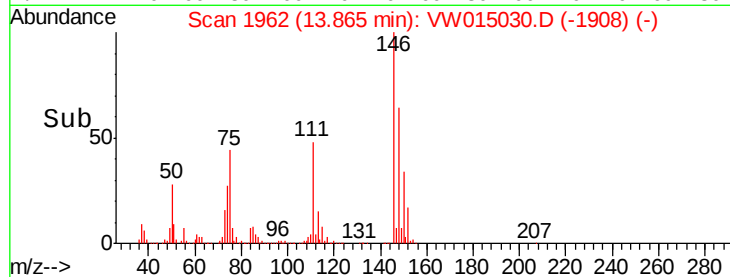
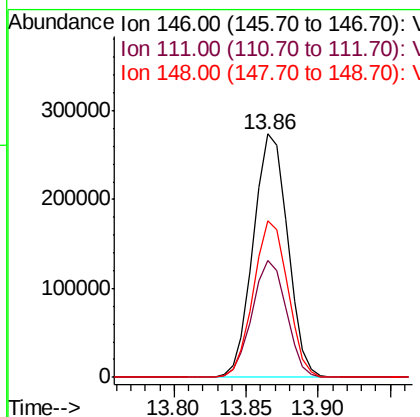
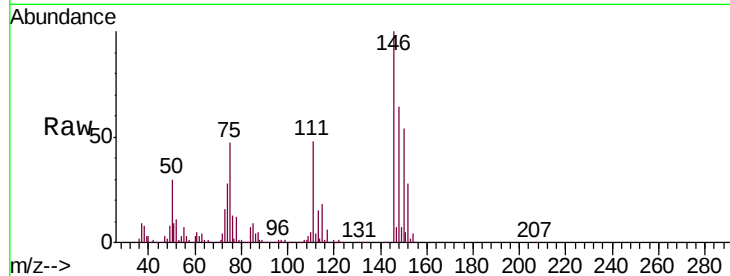




#65  
 1,2-Dichlorobenzene  
 Concen: 24.176 ug/L  
 RT: 13.86 min Scan# 1962  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

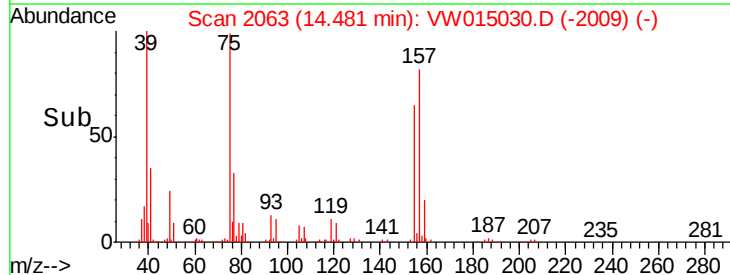
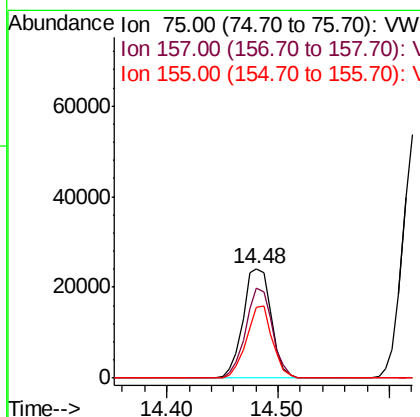
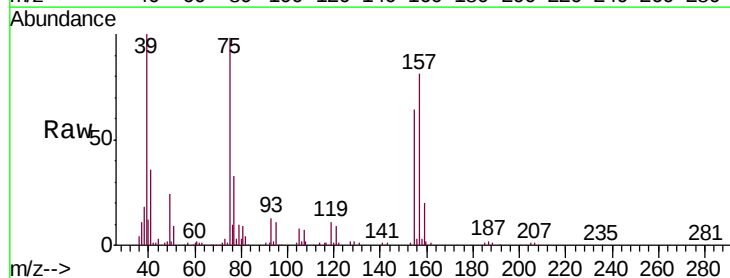
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

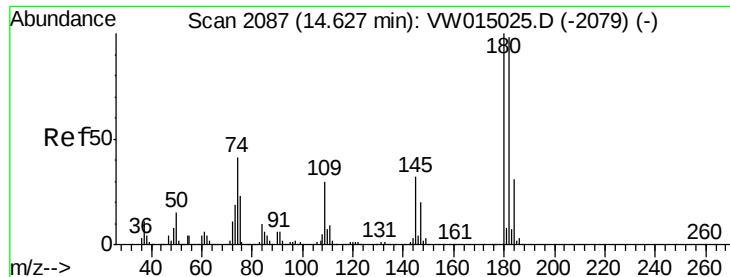
Tgt Ion: 146 Resp: 451047  
 Ion Ratio Lower Upper  
 146 100  
 111 48.2 37.7 56.5  
 148 64.1 50.0 75.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 25.865 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

Tgt Ion: 75 Resp: 42602  
 Ion Ratio Lower Upper  
 75 100  
 157 82.6 61.4 92.0  
 155 65.3 45.0 67.6

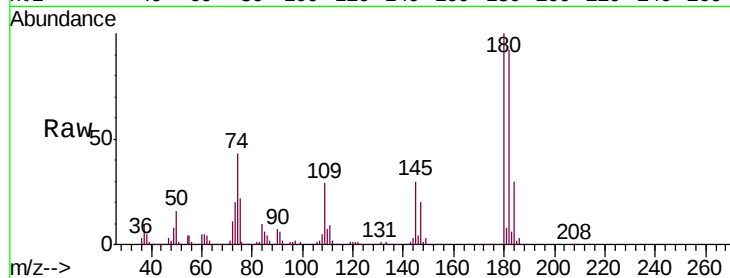




#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.739 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 355564 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 92.7  | 75.4  | 113.0  |
| 184      | 29.8  | 23.9  | 35.9   |
| 145      | 30.8  | 25.4  | 38.2   |



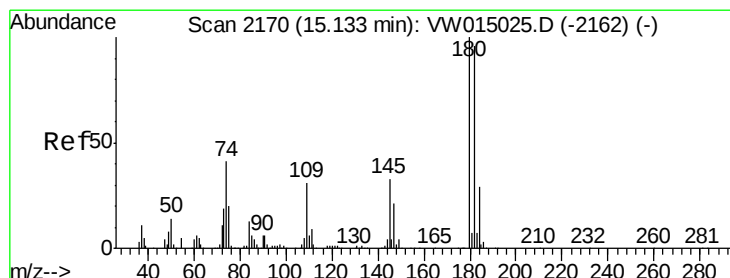
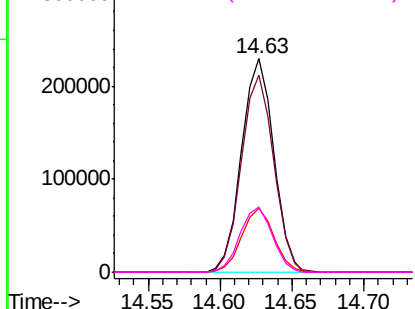
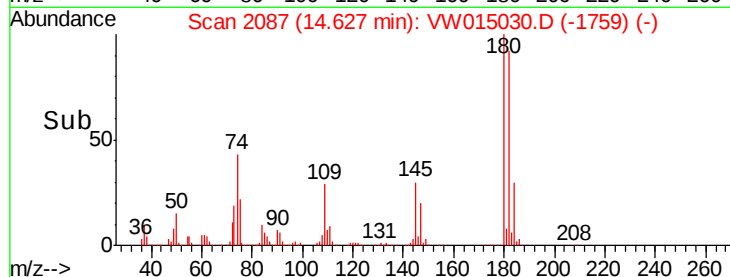
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

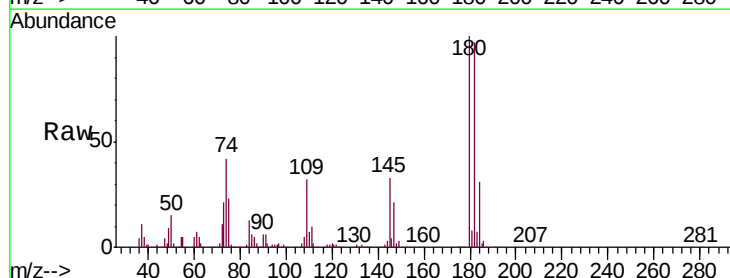
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 27.037 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW015030.D  
 Acq: 25 Feb 2020 12:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 272971 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.7  | 75.7  | 113.5  |
| 145      | 33.0  | 25.9  | 38.9   |

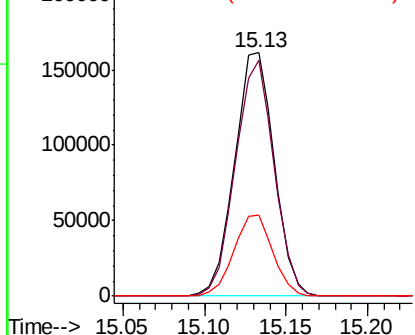
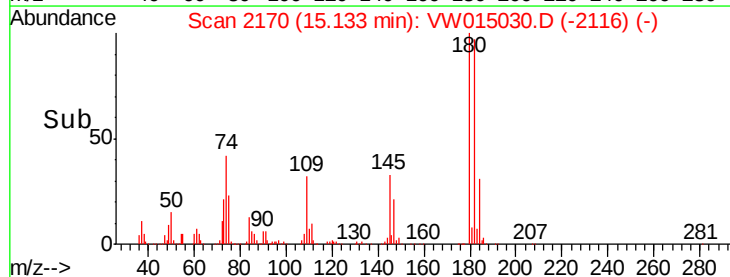


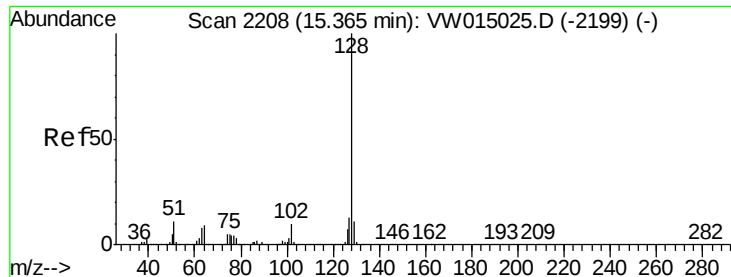
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 29.407 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02527

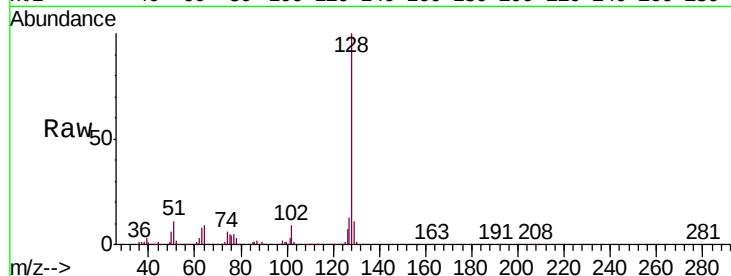
Tgt Ion:128 Resp: 263575

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.3 11.1 16.7

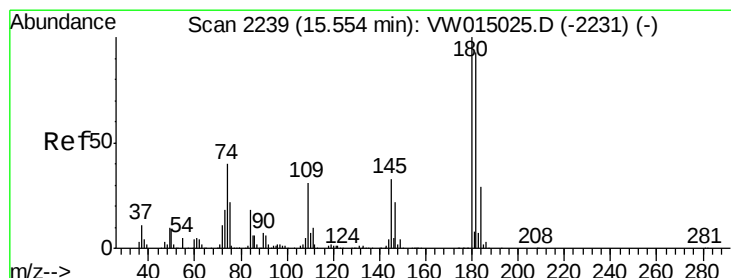
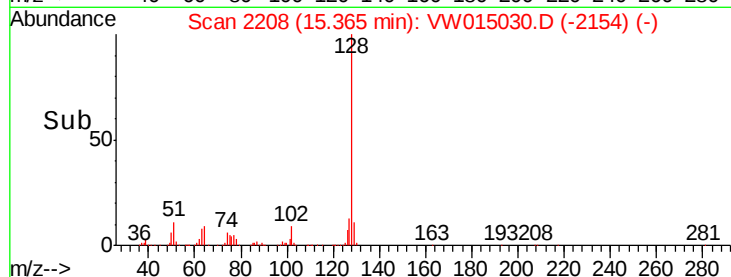
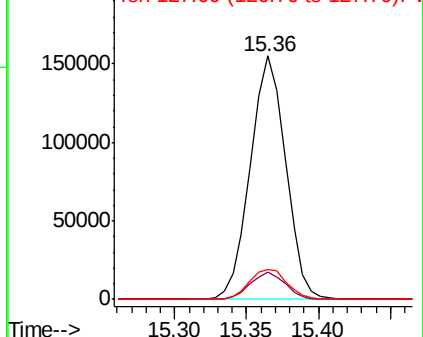


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.751 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW015030.D

Acq: 25 Feb 2020 12:08

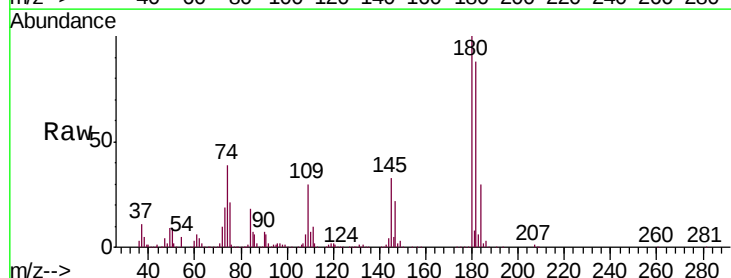
Tgt Ion:180 Resp: 251475

Ion Ratio Lower Upper

180 100

182 93.8 75.8 113.6

145 34.5 27.1 40.7



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

