

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100820\  
 Data File : VW016843.D  
 Acq On : 07 Oct 2020 19:32  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

Quant Time: Oct 08 08:42:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 08 08:32:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 520790   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 477551   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 240631   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 118799   | 23.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.48%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 98928    | 22.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 91.80%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 249298   | 22.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 91.40%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 55395    | 47.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.20%  |
| 24) Chloroform-d               | 7.65   | 84    | 256046   | 23.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.20%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 123080   | 23.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.76%  |
| 29) Benzene-d6                 | 8.28   | 84    | 488973   | 22.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 90.16%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 136470   | 23.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.64%  |
| 37) Toluene-d8                 | 10.33  | 98    | 466893   | 22.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.24%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 58328    | 22.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.76%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 46757    | 51.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 103.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 115092   | 24.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.76%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 173927   | 22.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.16%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 149900 | 24.081 | ug/L 98  |
| 3) Chloromethane               | 2.21 | 50  | 131196 | 23.910 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 183754 | 25.796 | ug/L 100 |
| 6) Bromomethane                | 2.79 | 94  | 129039 | 24.640 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 111533 | 25.368 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 117032 | 21.263 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 173183 | 24.699 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.05 | 96  | 167192 | 24.830 | ug/L 95  |
| 13) Acetone                    | 4.15 | 43  | 40915  | 46.461 | ug/L 100 |
| 14) Carbon disulfide           | 4.39 | 76  | 466839 | 24.179 | ug/L 99  |
| 15) Methyl Acetate             | 4.68 | 43  | 55848  | 26.543 | ug/L 98  |
| 16) Methylene chloride         | 4.93 | 84  | 174870 | 24.330 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 194388 | 25.798 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 172197 | 24.479 | ug/L 95  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 268834 | 24.817 | ug/L 99  |
| 21) 2-Butanone                 | 7.18 | 43  | 68237  | 46.158 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 176801 | 24.632 | ug/L 93  |

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 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

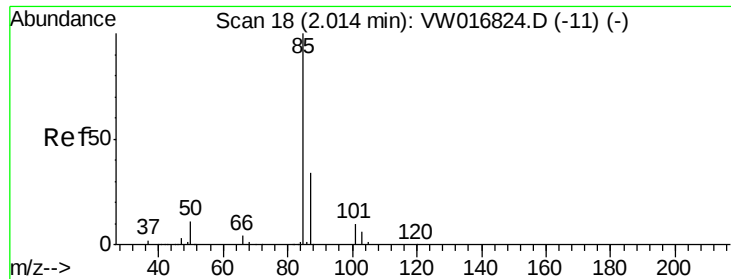
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

Quant Time: Oct 08 08:42:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 08 08:32:41 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 85009    | 25.221 | ug/L  | 94       |
| 25) Chloroform                  | 7.68  | 83   | 295064   | 25.223 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 176194   | 25.178 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 236680   | 23.899 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 248365   | 24.456 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 244250   | 24.646 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 645485   | 25.170 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 179736   | 24.777 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 286842   | 23.518 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 146210   | 25.213 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 202422   | 24.847 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 230685   | 24.951 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 155922   | 53.408 | ug/L  | 98       |
| 44) Toluene                     | 10.39 | 91   | 701105   | 24.644 | ug/L  | 94       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 196563   | 25.265 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 121135   | 25.697 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 161771   | 24.054 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 104320   | 54.136 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 152498   | 26.022 | ug/L  | 100      |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 120651   | 26.044 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 463049   | 24.253 | ug/L  | 96       |
| 53) Ethylbenzene                | 11.73 | 91   | 798371   | 25.016 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 311366   | 25.085 | ug/L  | 96       |
| 55) o-xylene                    | 12.16 | 106  | 291010   | 24.539 | ug/L  | 93       |
| 56) Styrene                     | 12.18 | 104  | 505154   | 25.813 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.46 | 105  | 797855   | 24.569 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 135600   | 26.028 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 98114    | 25.997 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 83044    | 24.533 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 374255   | 24.438 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 361724   | 23.618 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 330277   | 24.087 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 20553    | 24.711 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 264276   | 23.216 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 212871   | 22.767 | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 397347   | 25.664 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 195409   | 24.322 | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 24.081 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

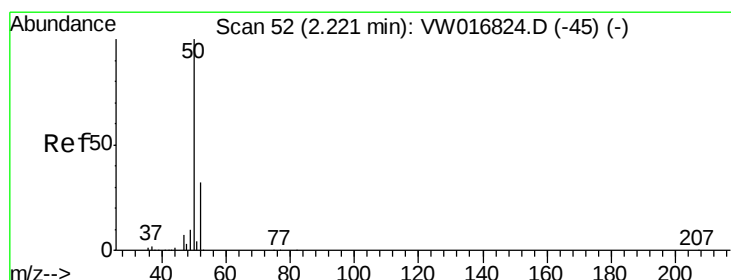
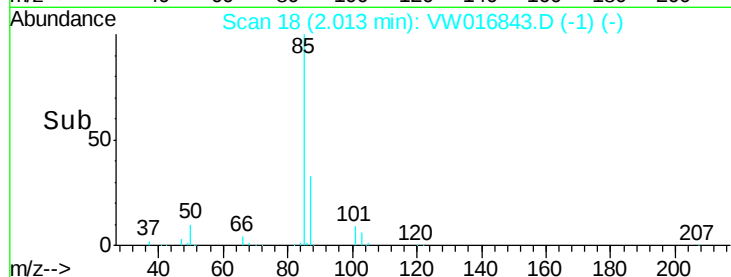
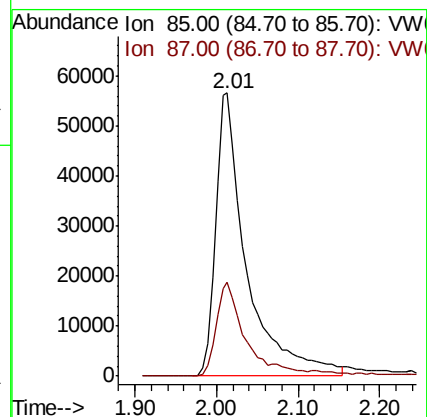
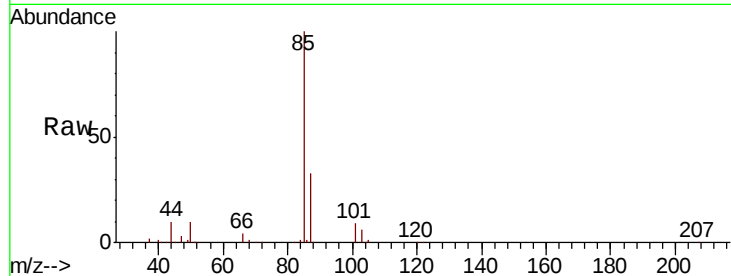
VSTD02522

Tot Ion: 85 Resp: 149900

Ion Ratio Lower Upper

85 100

87 27.9 20.4 37.8



#3

Chloromethane

Concen: 23.910 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW016843.D

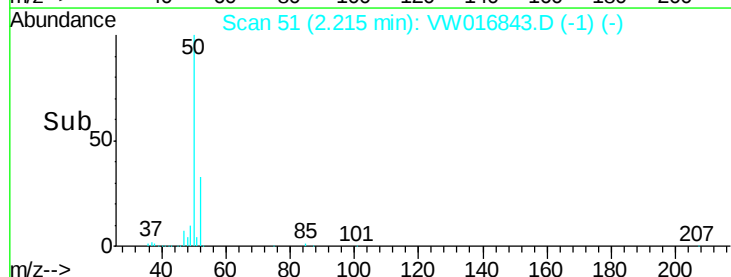
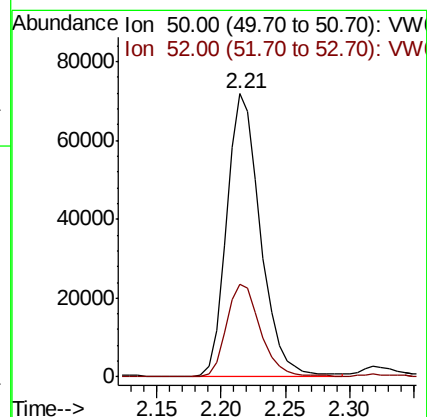
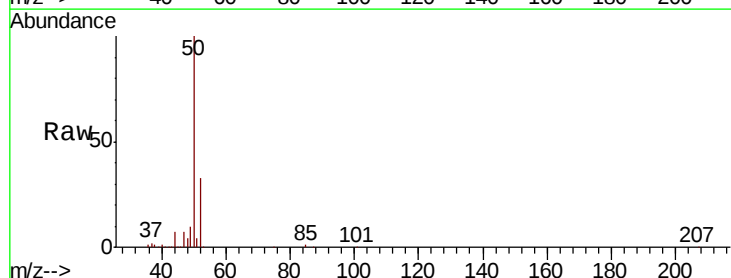
Acq: 07 Oct 2020 19:32

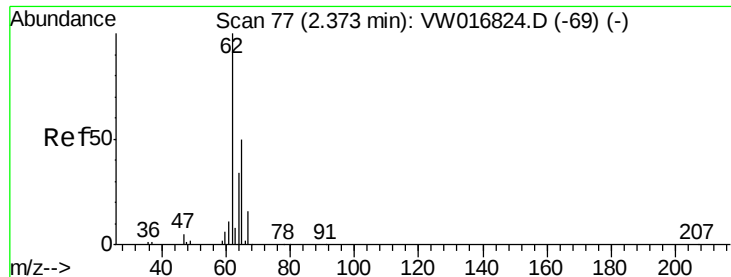
Tgt Ion: 50 Resp: 131196

Ion Ratio Lower Upper

50 100

52 32.9 22.7 42.3





#5

Vinyl chloride

Concen: 25.796 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

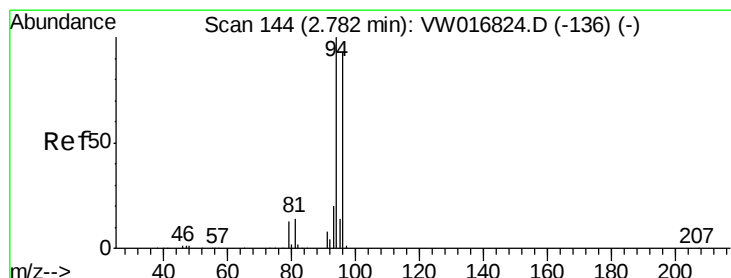
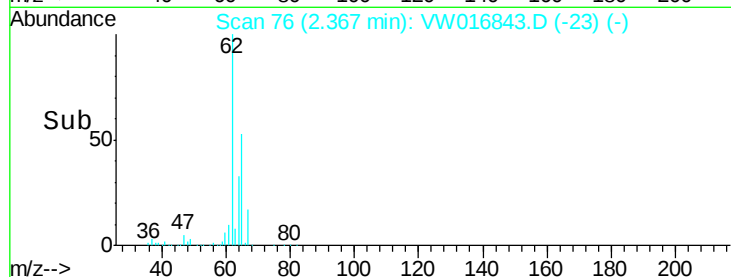
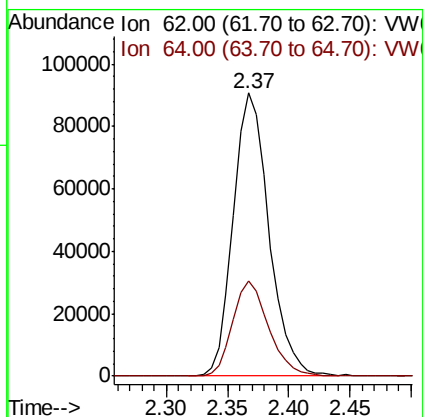
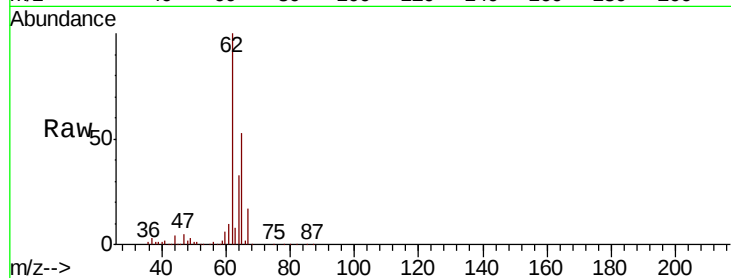
VSTD02522

Tot Ion: 62 Resp: 183754

Ion Ratio Lower Upper

62 100

64 33.5 23.5 43.7



#6

Bromomethane

Concen: 24.640 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW016843.D

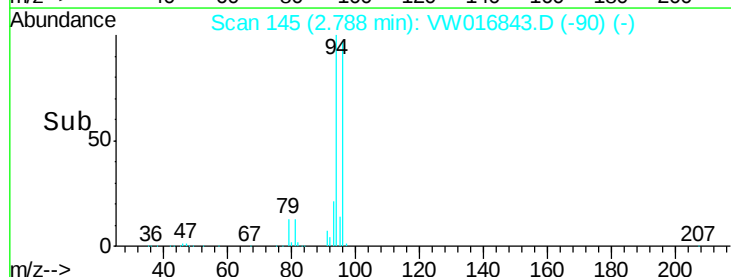
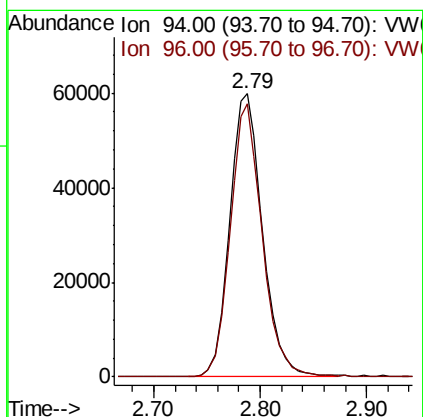
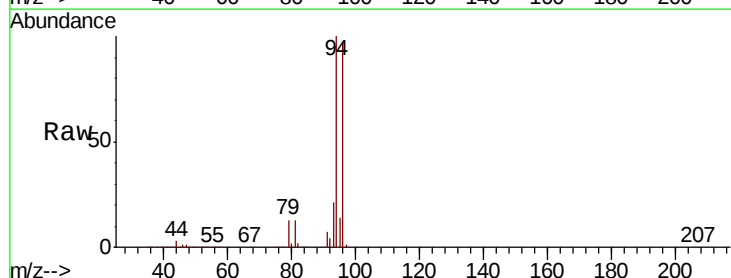
Acq: 07 Oct 2020 19:32

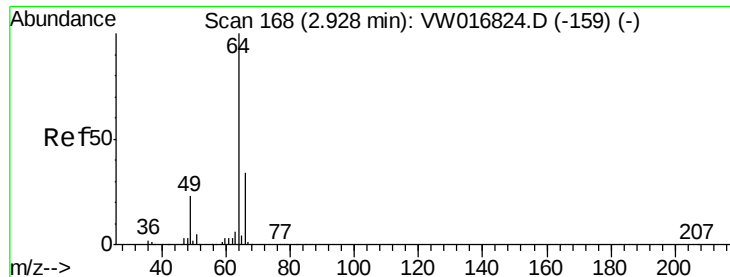
Tgt Ion: 94 Resp: 129039

Ion Ratio Lower Upper

94 100

96 93.9 9.5 180.7

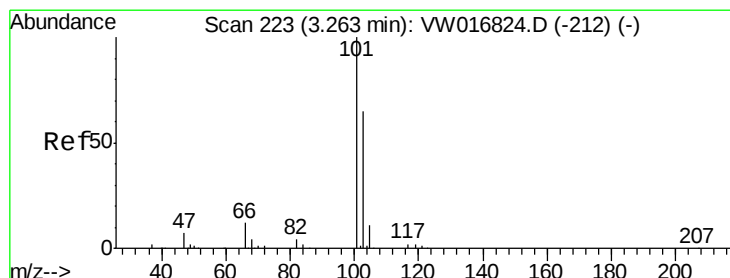
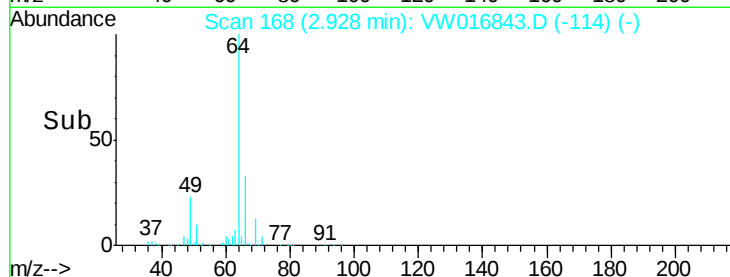
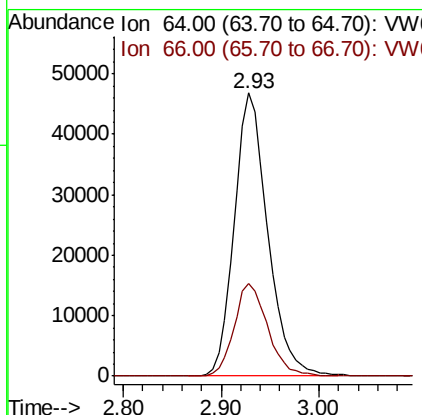
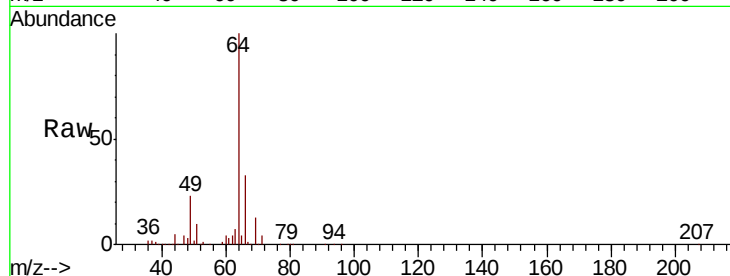




#8  
Chloroethane  
Concen: 25.368 ug/L  
RT: 2.93 min Scan# 168  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

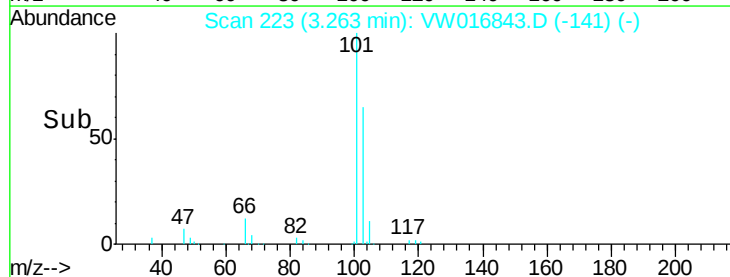
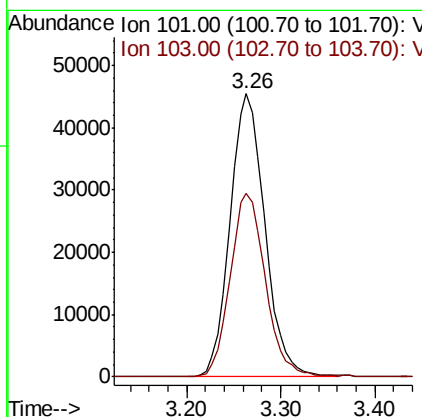
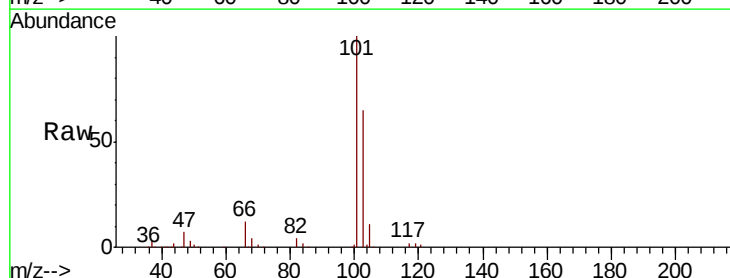
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

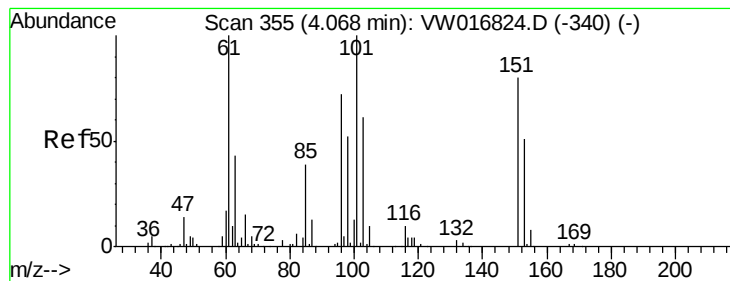
Tot Ion: 64 Resp: 111533  
Ion Ratio Lower Upper  
64 100  
66 32.7 22.5 41.7



#9  
Trichlorofluoromethane  
Concen: 21.263 ug/L  
RT: 3.26 min Scan# 223  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

Tgt Ion: 101 Resp: 117032  
Ion Ratio Lower Upper  
101 100  
103 65.2 45.2 84.0





#11

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

Concen: 24.699 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02522

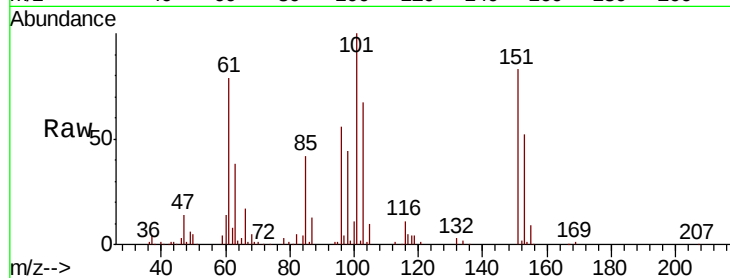
Tot Ion:101 Resp: 173183

Ion Ratio Lower Upper

101 100

85 40.6 31.7 47.5

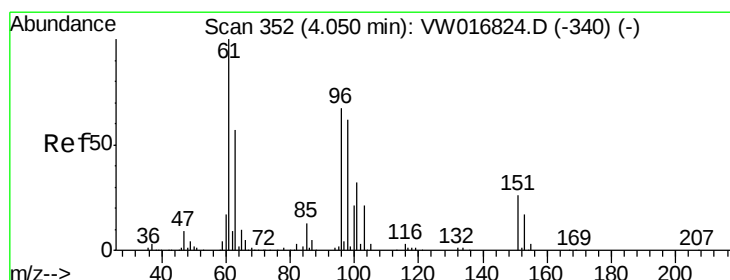
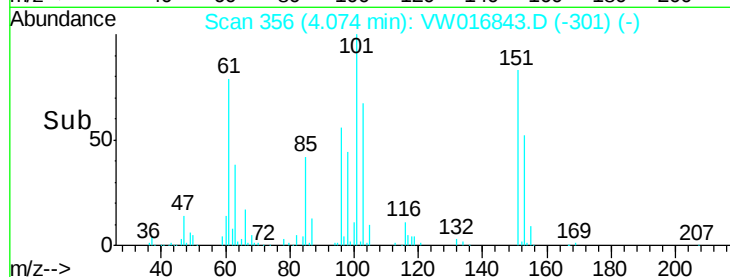
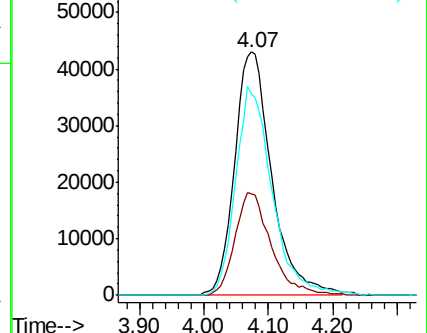
151 83.0 66.6 99.8



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: 24.830 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

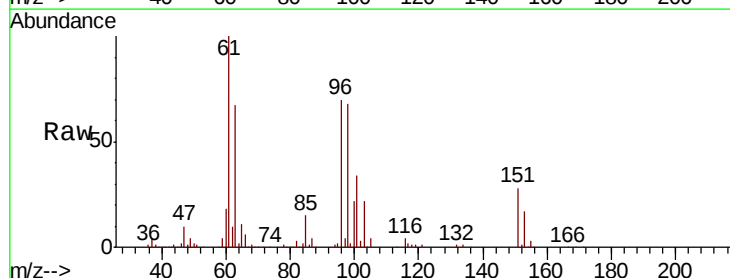
Tgt Ion: 96 Resp: 167192

Ion Ratio Lower Upper

96 100

61 143.1 105.1 195.1

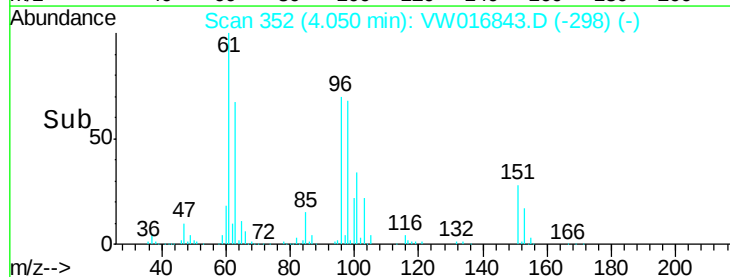
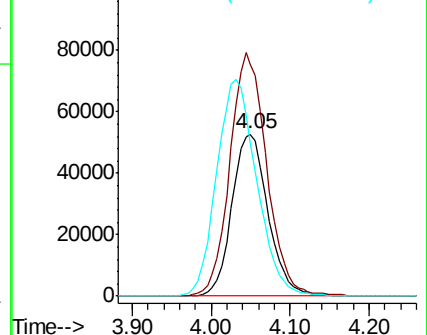
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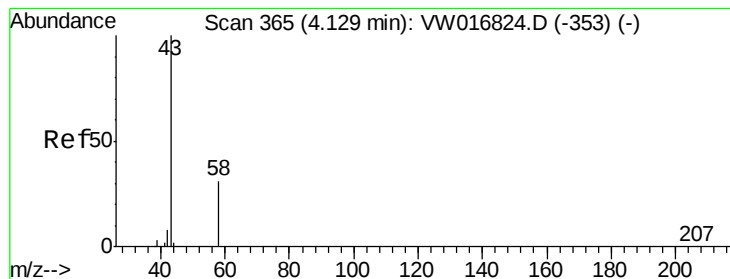


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 46.461 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampled :

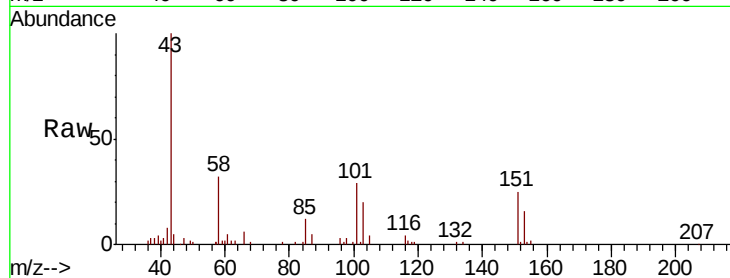
VSTD02522

Tot Ion: 43 Resp: 40915

Ion Ratio Lower Upper

43 100

58 33.8 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

15000

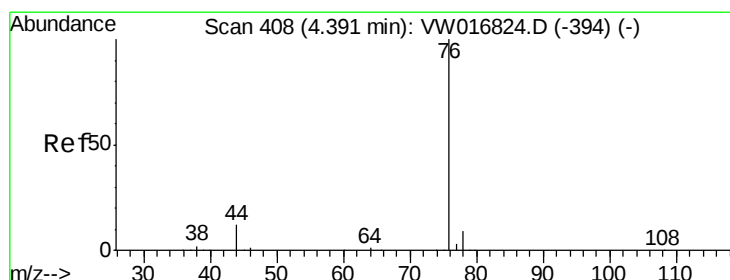
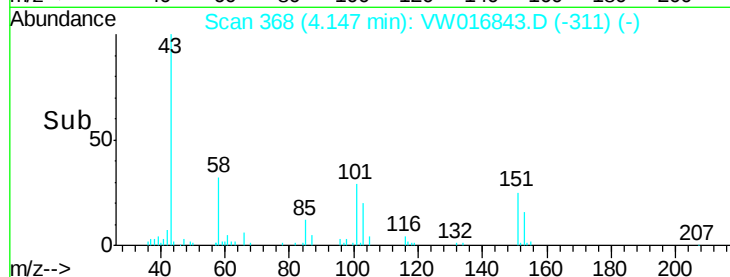
10000

5000

0

Time--> 4.00 4.10 4.20 4.30

4.15



#14

Carbon disulfide

Concen: 24.179 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.00 min

Lab File: VW016843.D

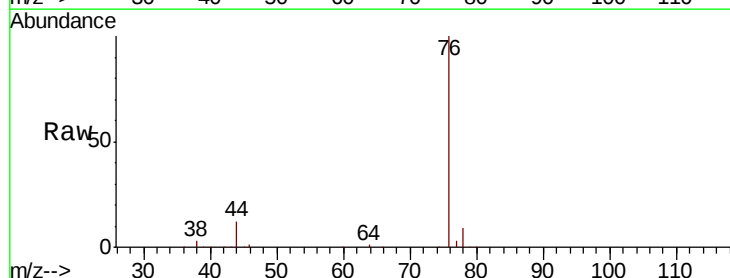
Acq: 07 Oct 2020 19:32

Tgt Ion: 76 Resp: 466839

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

150000

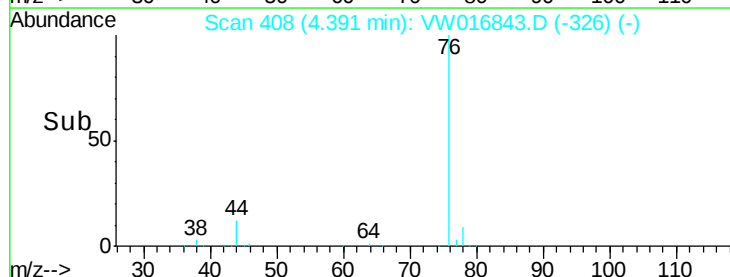
100000

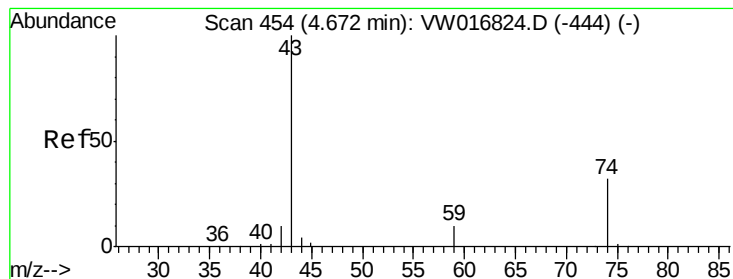
50000

0

Time--> 4.30 4.40 4.50

4.39





#15

Methyl Acetate

Concen: 26.543 ug/L

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

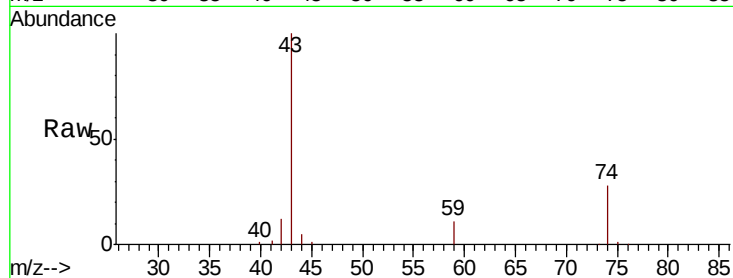
VSTD02522

Tot Ion: 43 Resp: 55848

Ion Ratio Lower Upper

43 100

74 27.5 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

20000

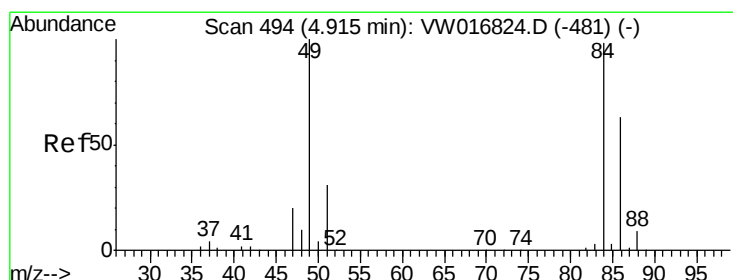
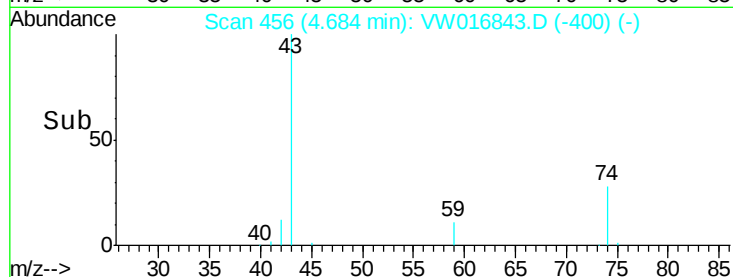
15000

10000

5000

0

Time-->



#16

Methylene chloride

Concen: 24.330 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

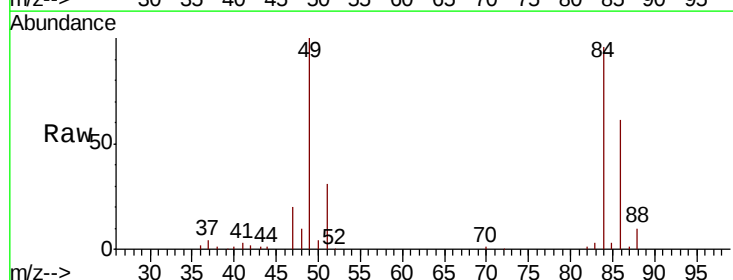
Tgt Ion: 84 Resp: 174870

Ion Ratio Lower Upper

84 100

49 104.5 73.1 135.8

86 64.2 46.0 85.4



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

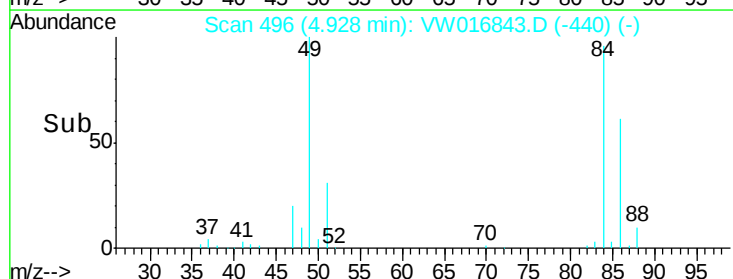
60000

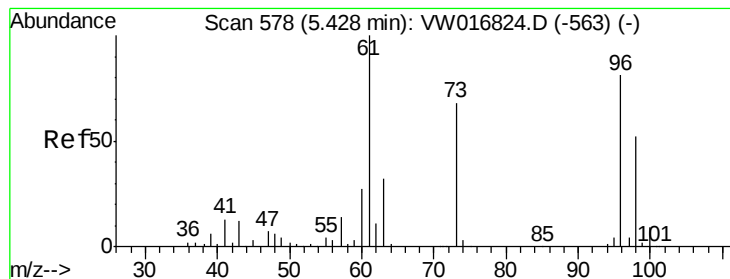
40000

20000

0

Time-->





#17

Methvl tert-butvl Ether

Concen: 25.798 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02522

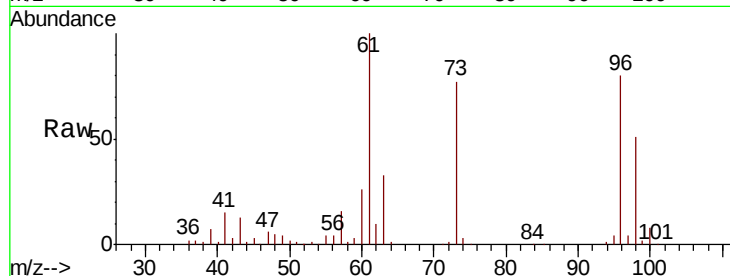
Tot Ion: 73 Resp: 194388

Ion Ratio Lower Upper

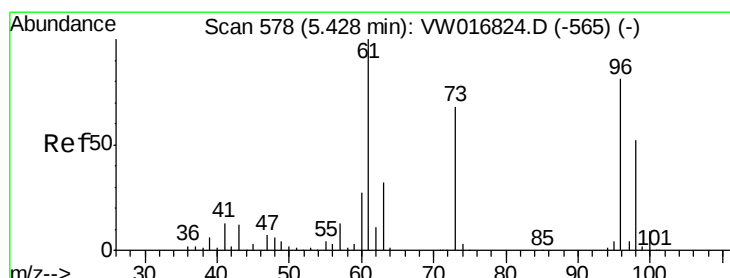
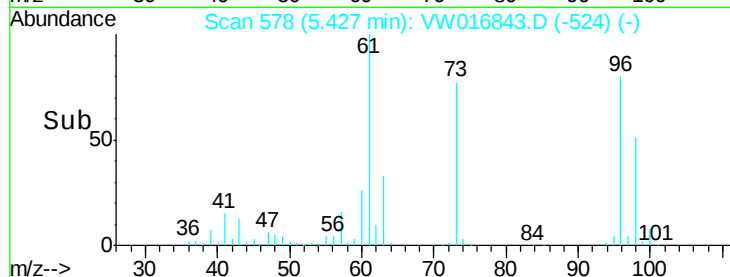
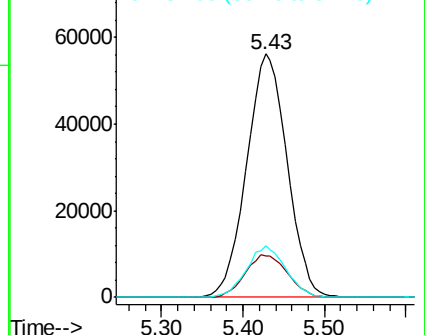
73 100

43 18.4 15.0 22.4

57 20.5 16.4 24.6



Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 24.479 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

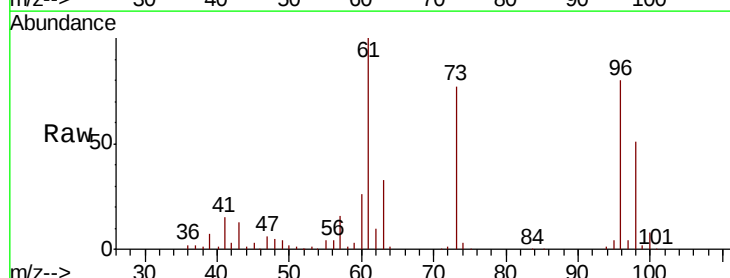
Tgt Ion: 96 Resp: 172197

Ion Ratio Lower Upper

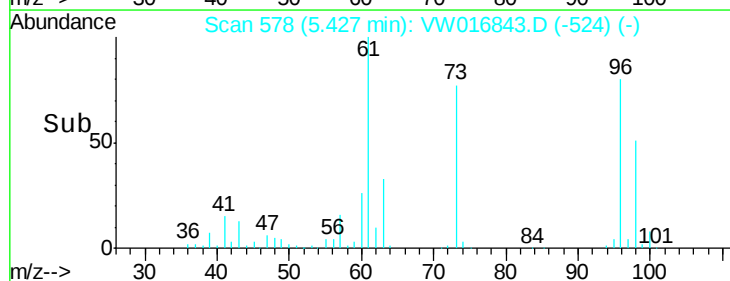
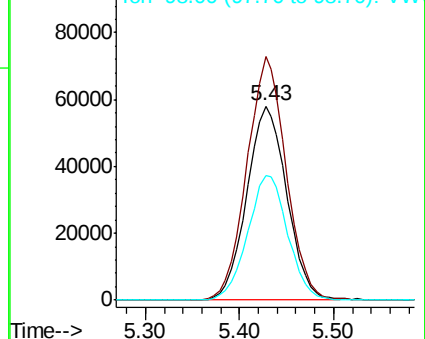
96 100

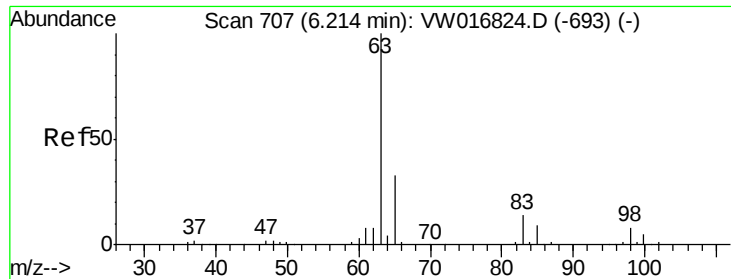
61 125.5 82.5 153.3

98 63.9 43.3 80.5



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

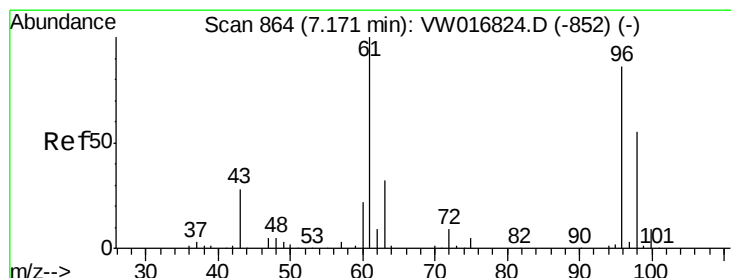
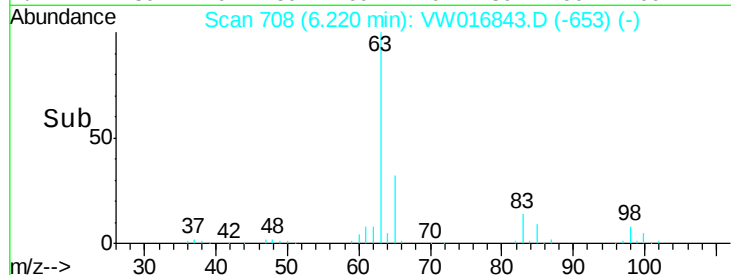
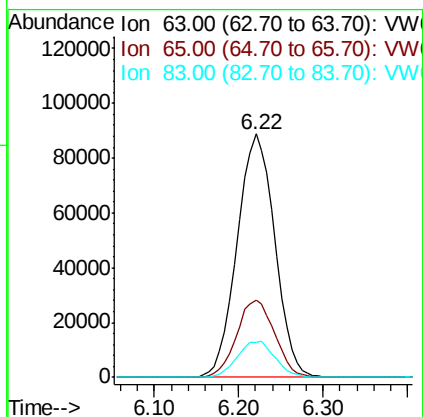
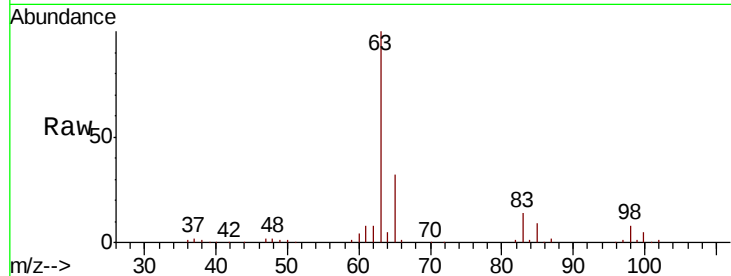




#19  
 1,1-Dichloroethane  
 Concen: 24.817 ug/L  
 RT: 6.22 min Scan# 708  
 Delta R.T. 0.01 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

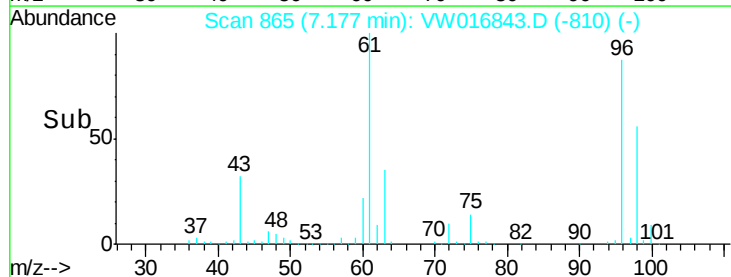
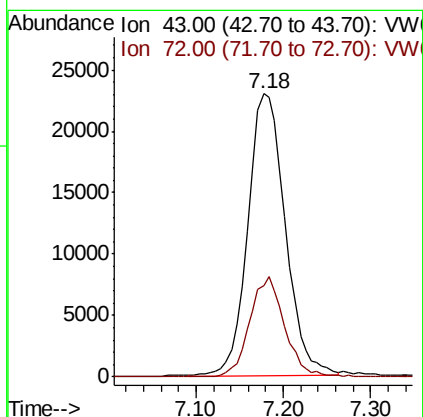
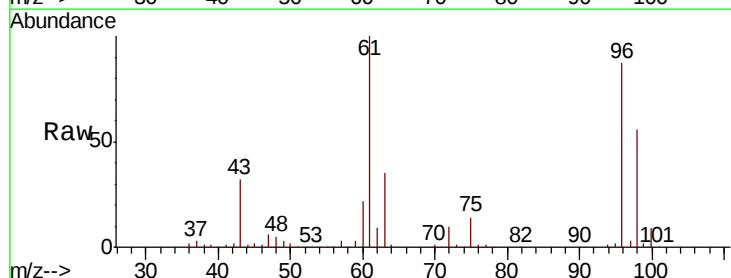
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

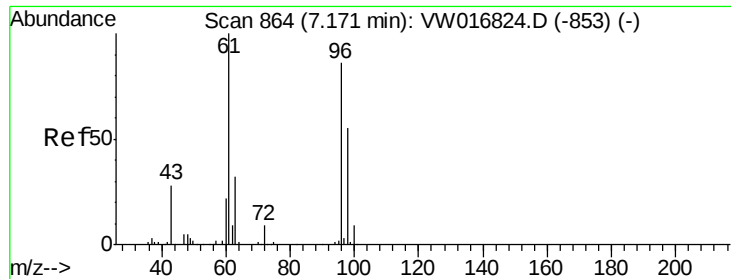
Tot Ion: 63 Resp: 268834  
 Ion Ratio Lower Upper  
 63 100  
 65 31.8 22.7 42.1  
 83 14.2 9.9 18.5



#21  
 2-Butanone  
 Concen: 46.158 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.01 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

Tgt Ion: 43 Resp: 68237  
 Ion Ratio Lower Upper  
 43 100  
 72 32.7 16.2 48.5



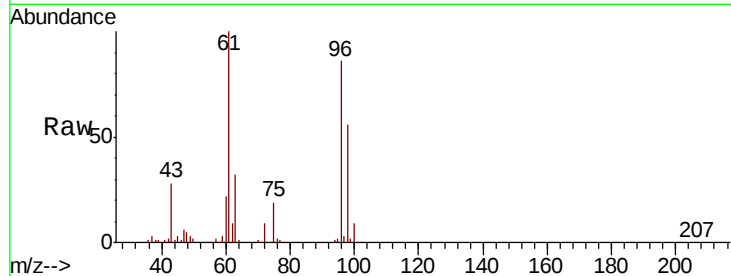


#22

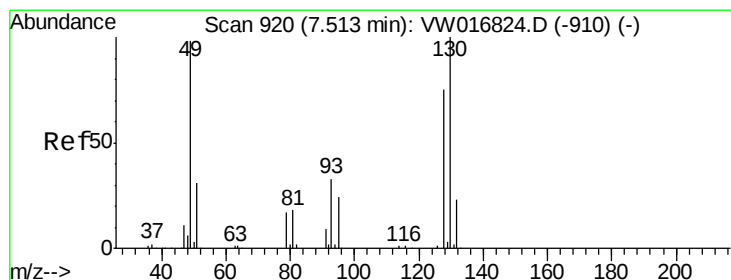
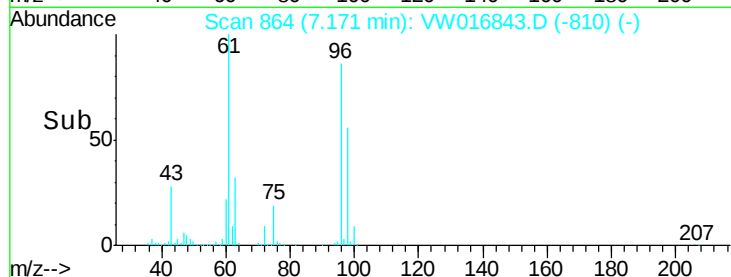
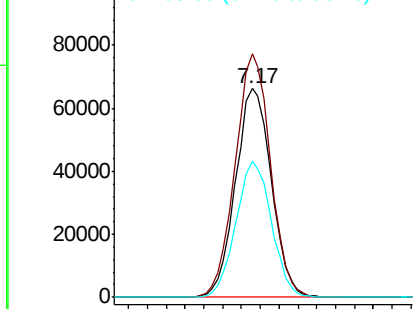
cis-1,2-Dichloroethene  
Concen: 24.632 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

Tot Ion: 96 Resp: 176801  
Ion Ratio Lower Upper  
96 100  
61 116.7 76.0 141.2  
98 65.5 42.7 79.3



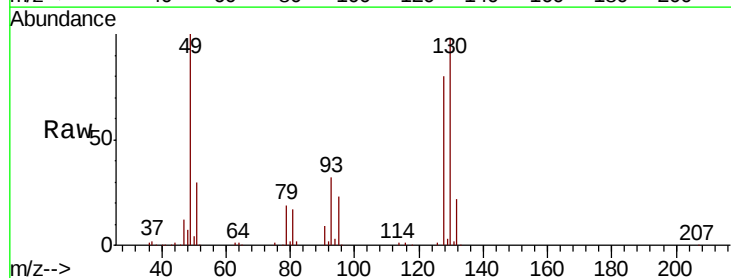
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



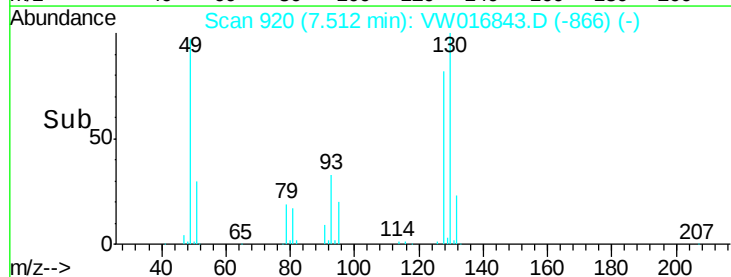
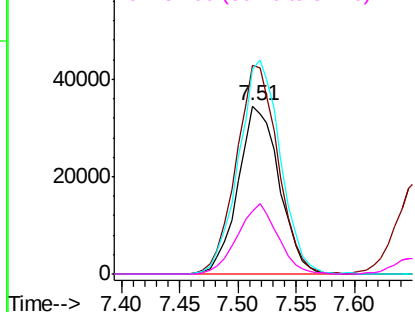
#23

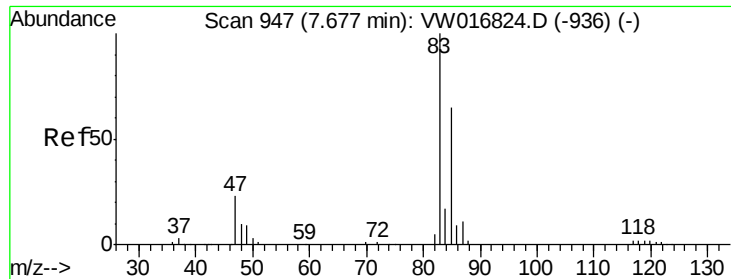
Bromochloromethane  
Concen: 25.221 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

Tgt Ion: 128 Resp: 85009  
Ion Ratio Lower Upper  
128 100  
49 124.4 88.5 164.3  
130 121.9 92.9 172.5  
51 37.4 32.6 48.8



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

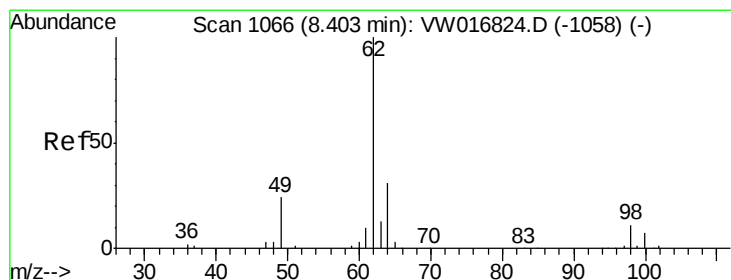
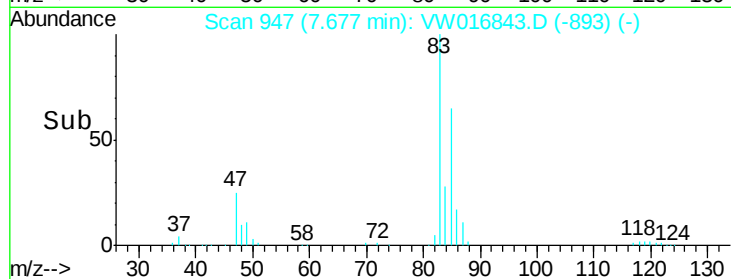
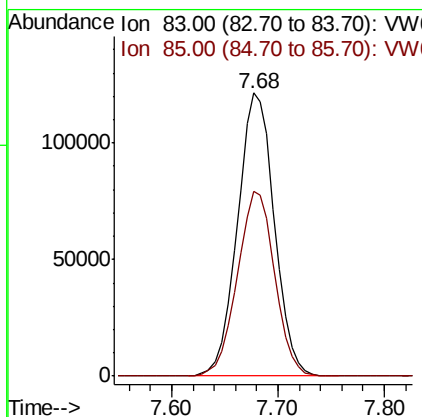
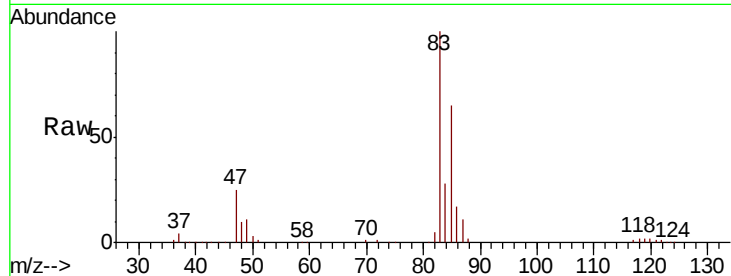




#25  
Chloroform  
Concen: 25.223 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

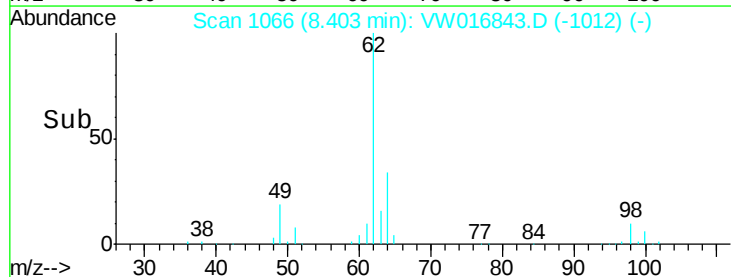
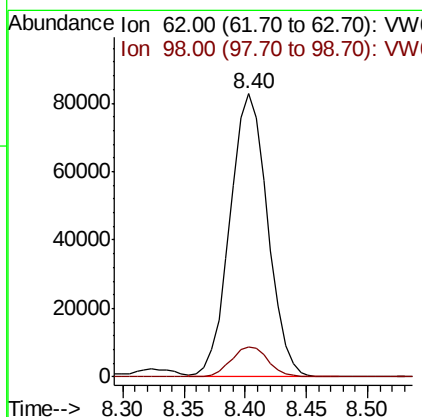
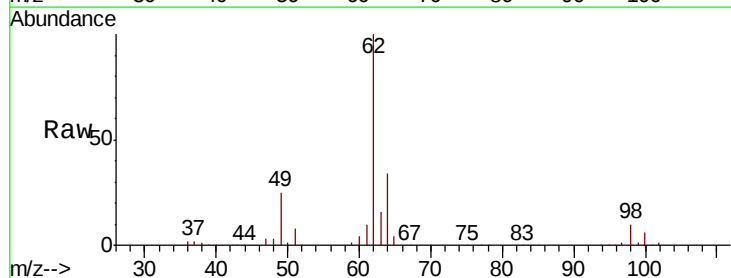
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

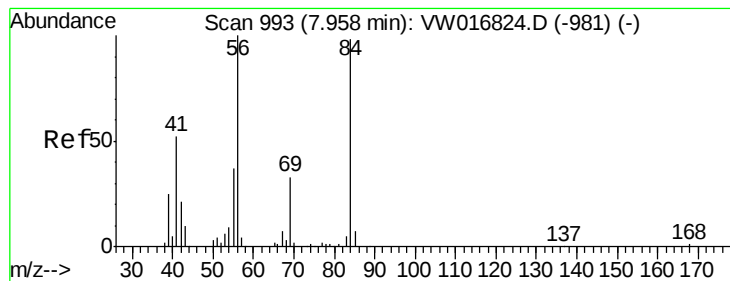
Tot Ion: 83 Resp: 295064  
Ion Ratio Lower Upper  
83 100  
85 66.3 46.9 87.1



#27  
1,2-Dichloroethane  
Concen: 25.178 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

Tgt Ion: 62 Resp: 176194  
Ion Ratio Lower Upper  
62 100  
98 10.5 8.6 12.8





#30

Cyclohexane

Concen: 23.899 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02522

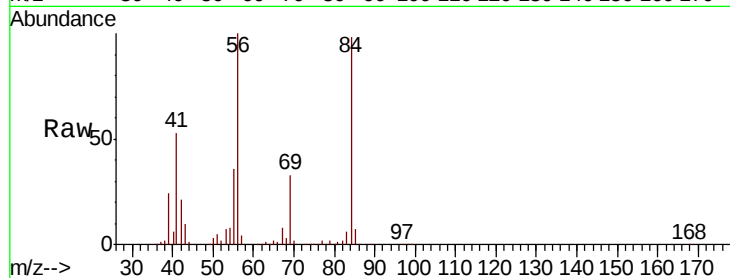
Tot Ion: 56 Resp: 236680

Ion Ratio Lower Upper

56 100

69 33.4 26.1 39.1

84 101.1 79.3 118.9

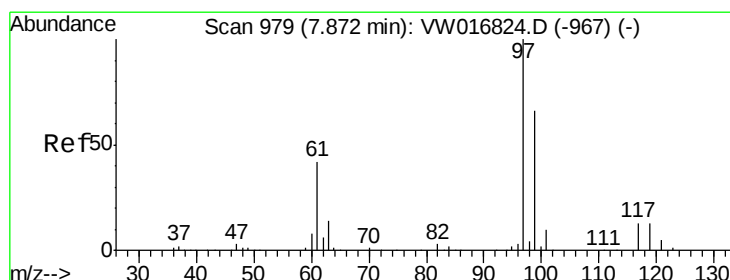
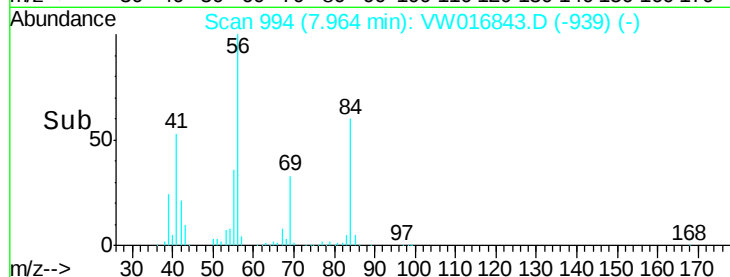
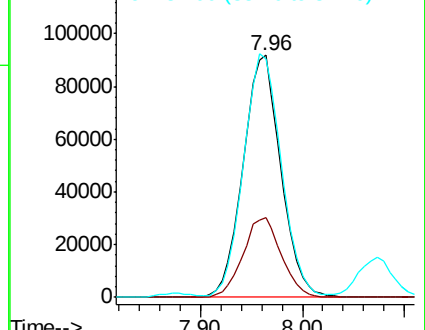


Abundance

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: 24.456 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

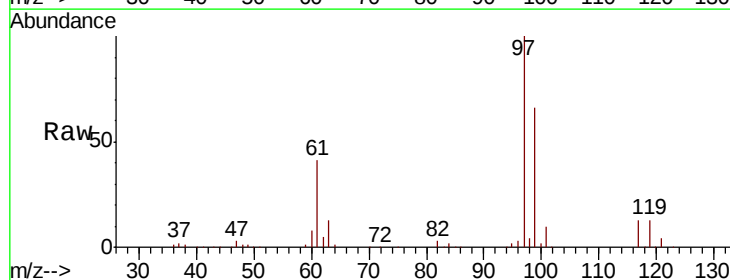
Tgt Ion: 97 Resp: 248365

Ion Ratio Lower Upper

97 100

99 65.1 51.5 77.3

61 40.8 32.5 48.7

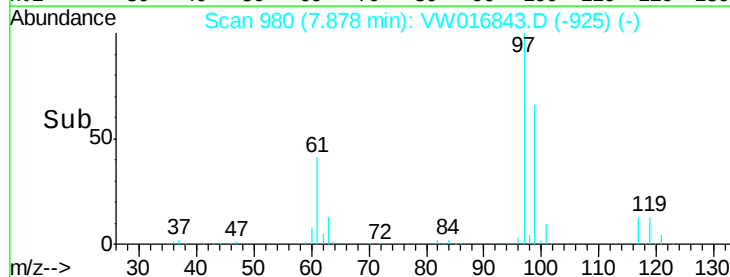
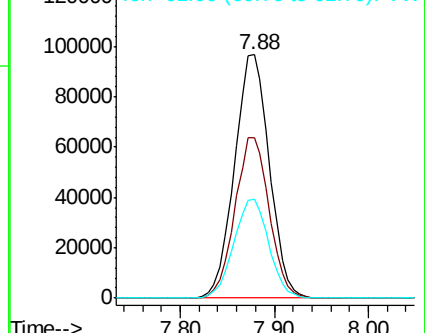


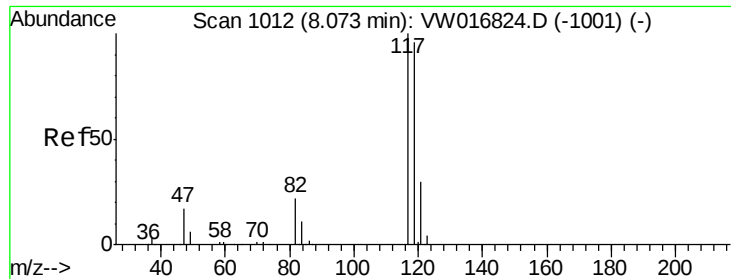
Abundance

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

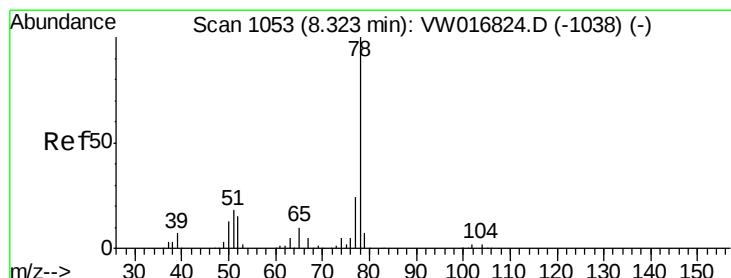
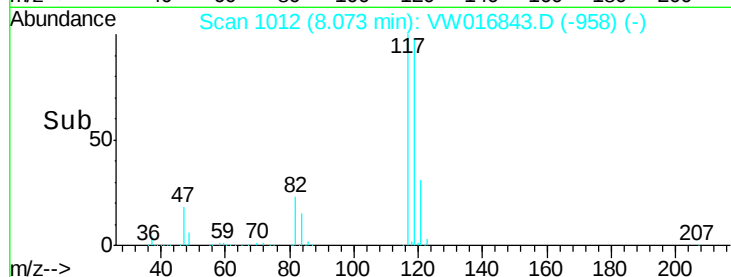
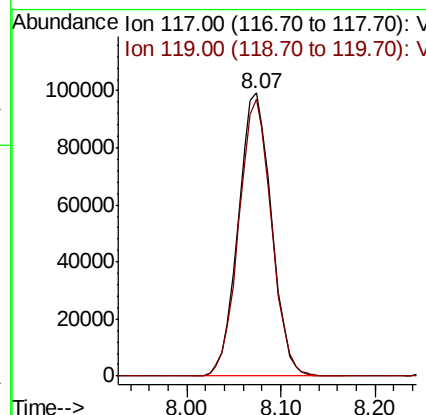
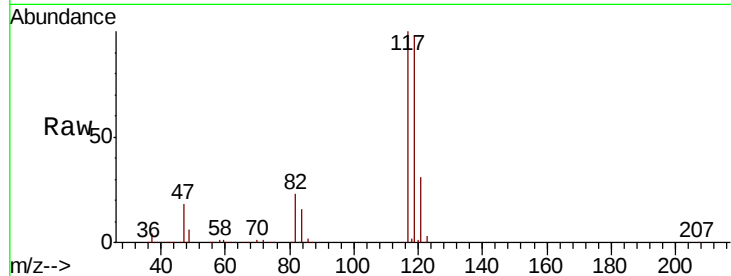




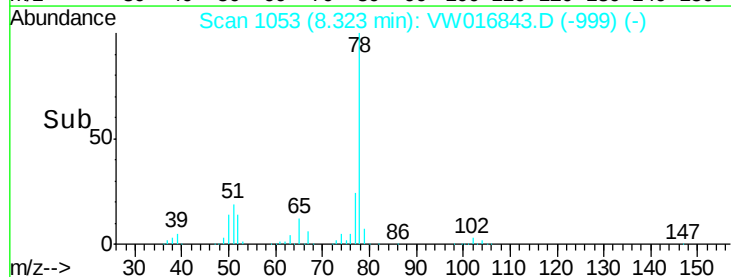
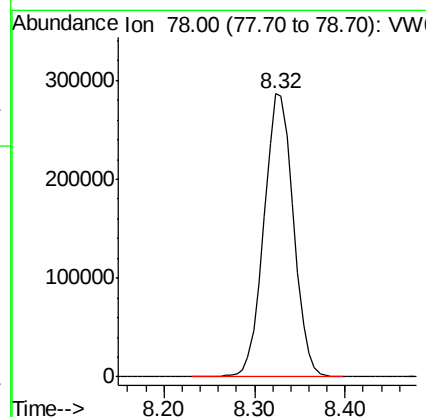
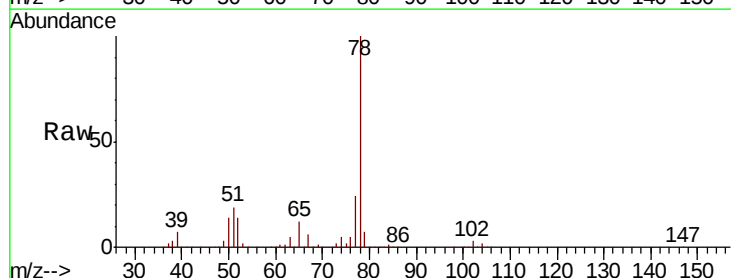
#32  
Carbon tetrachloride  
Concen: 24.646 ug/L  
RT: 8.07 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

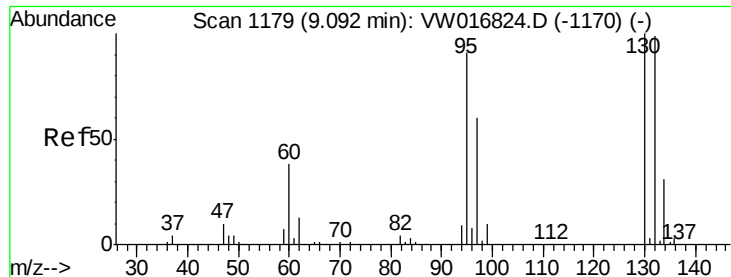
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

Tot Ion:117 Resp: 244250  
Ion Ratio Lower Upper  
117 100  
119 96.1 77.4 116.0



#34  
Benzene  
Concen: 25.170 ug/L  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32  
Tgt Ion: 78 Resp: 645485

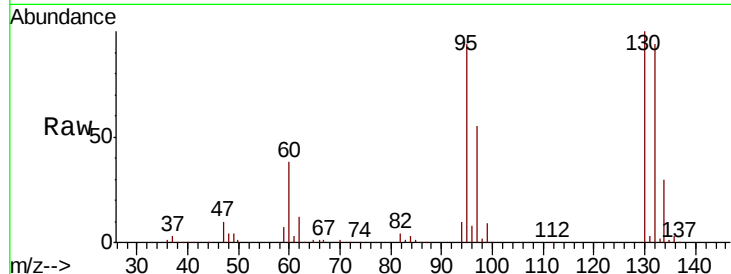




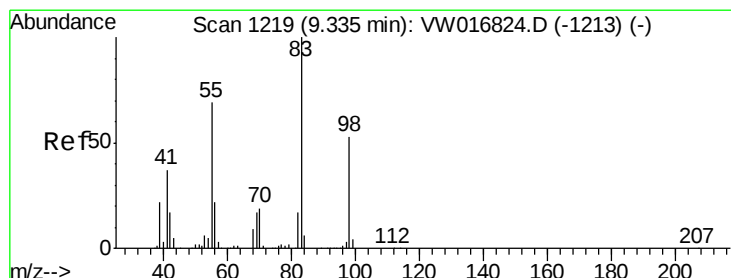
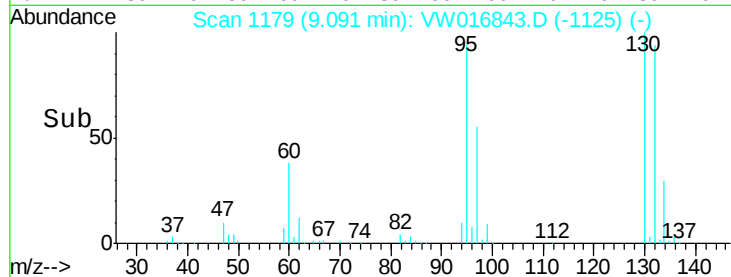
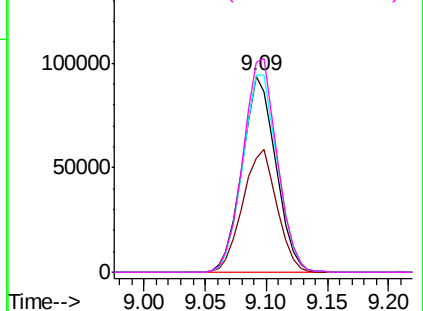
#35  
 Trichloroethene  
 Concen: 24.777 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

Tot Ion: 95 Resp: 179736  
 Ion Ratio Lower Upper  
 95 100  
 97 63.8 44.7 83.1  
 132 104.6 73.8 137.2  
 130 110.7 77.1 143.3

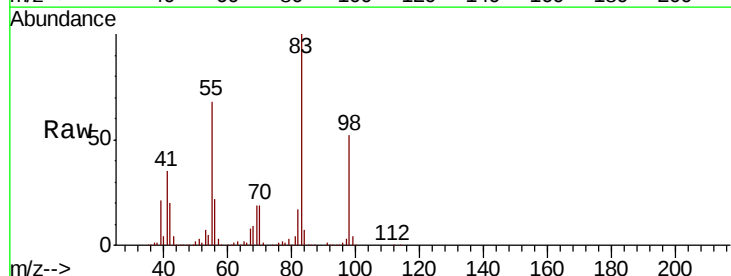


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

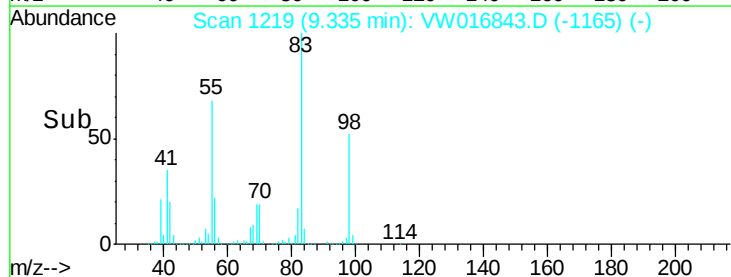
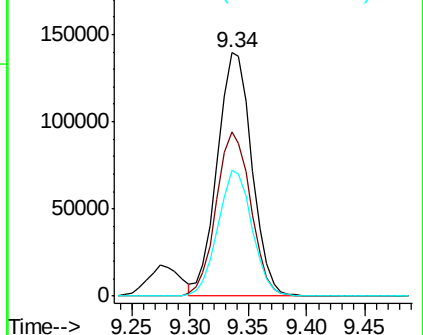


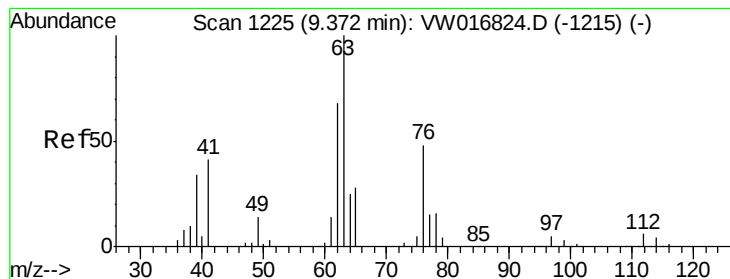
#36  
 Methylcyclohexane  
 Concen: 23.518 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

Tgt Ion: 83 Resp: 286842  
 Ion Ratio Lower Upper  
 83 100  
 55 67.5 54.2 81.4  
 98 51.3 41.4 62.2



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: 25.213 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

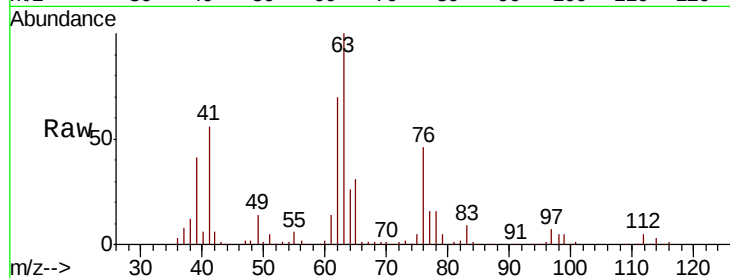
VSTD02522

Tot Ion: 63 Resp: 146210

Ion Ratio Lower Upper

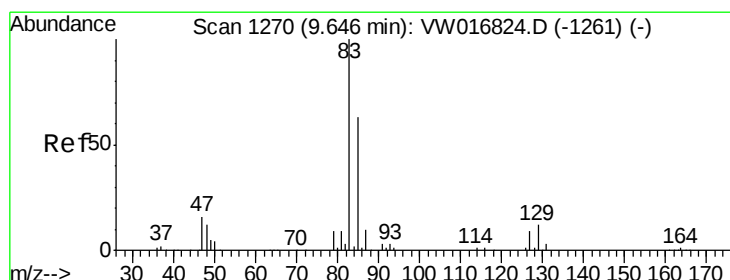
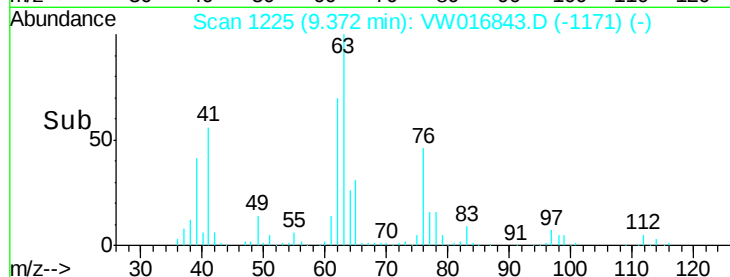
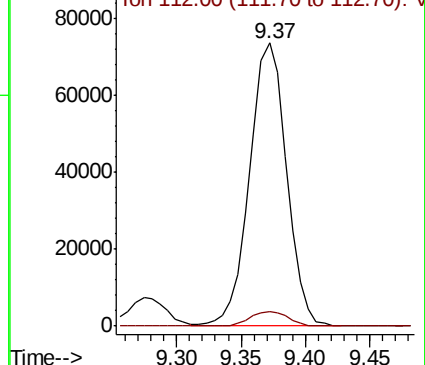
63 100

112 5.4 4.5 6.7



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.847 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

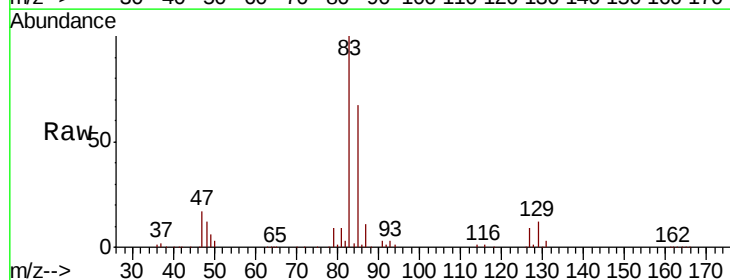
Tgt Ion: 83 Resp: 202422

Ion Ratio Lower Upper

83 100

85 67.5 46.2 85.8

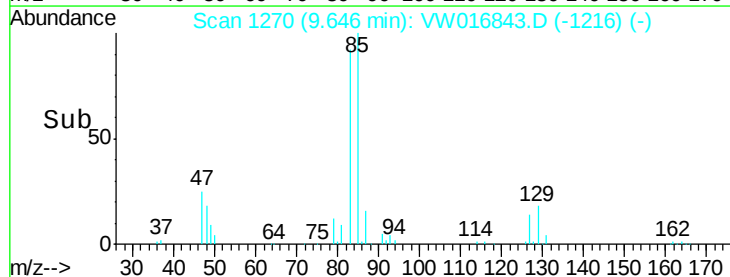
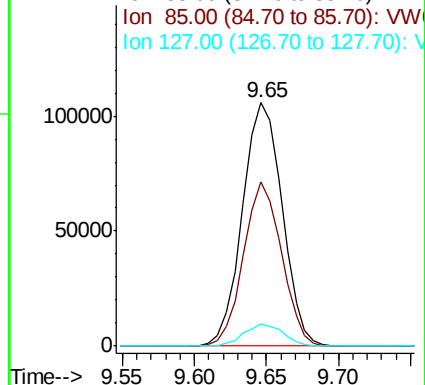
127 9.2 7.5 11.3

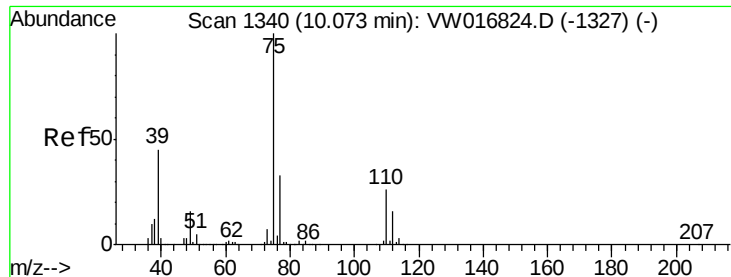


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 24.951 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

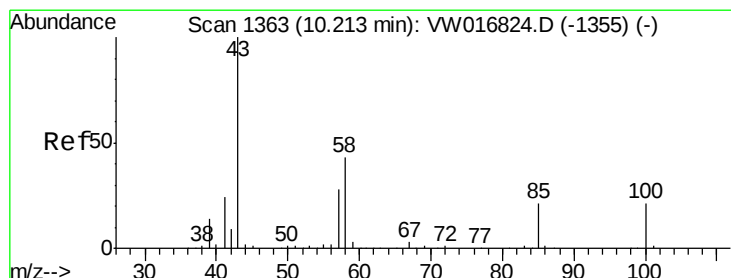
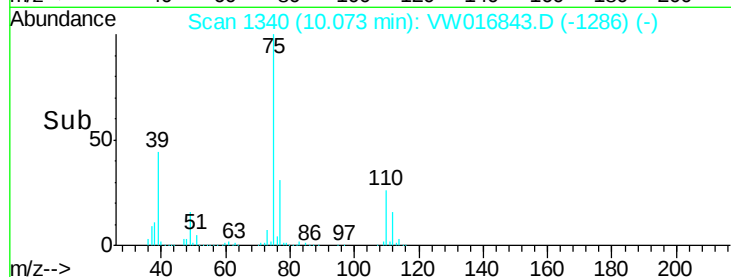
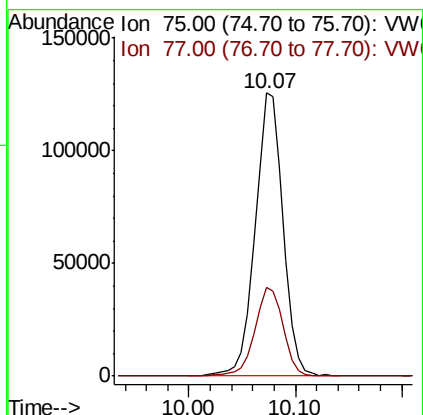
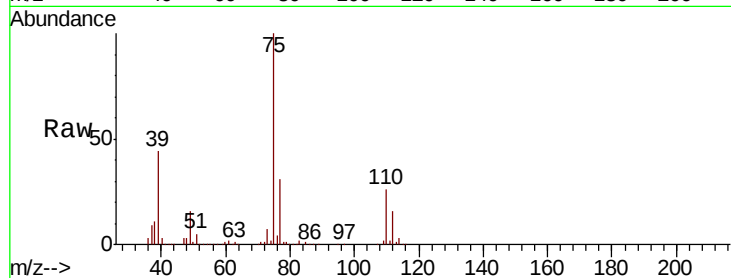
VSTD02522

Tot Ion: 75 Resp: 230685

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 53.408 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

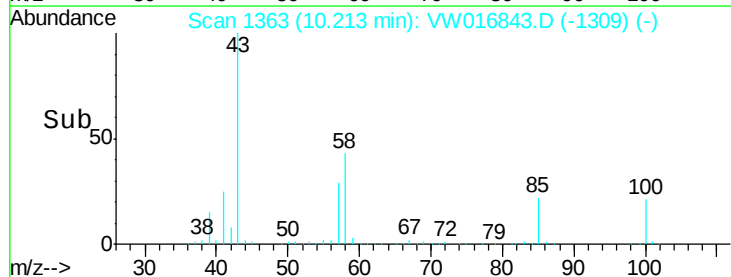
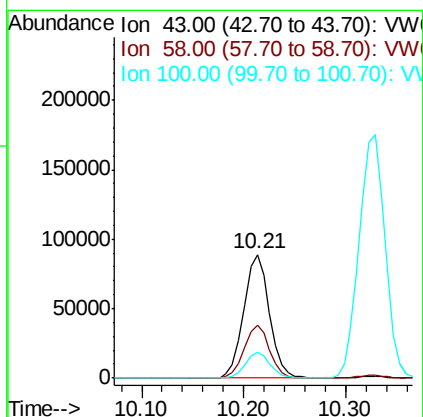
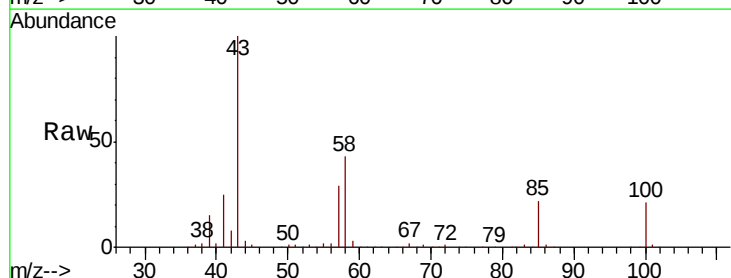
Tgt Ion: 43 Resp: 155922

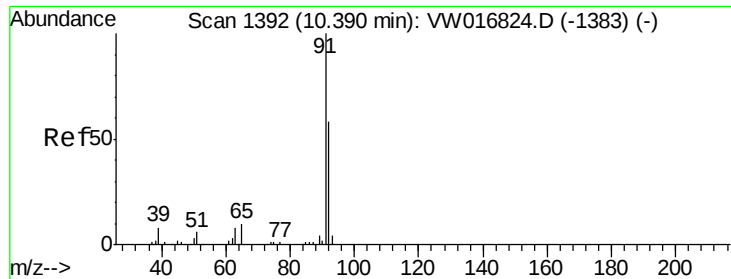
Ion Ratio Lower Upper

43 100

58 42.3 34.7 52.1

100 20.2 16.9 25.3





#44

Toluene

Concen: 24.644 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

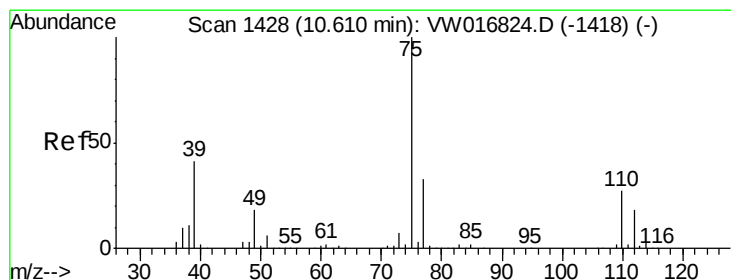
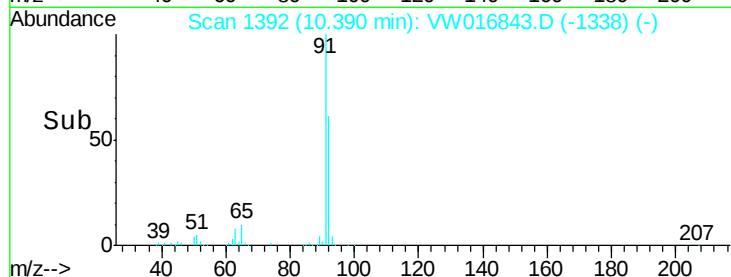
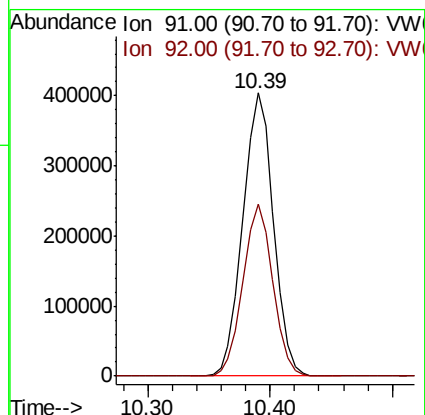
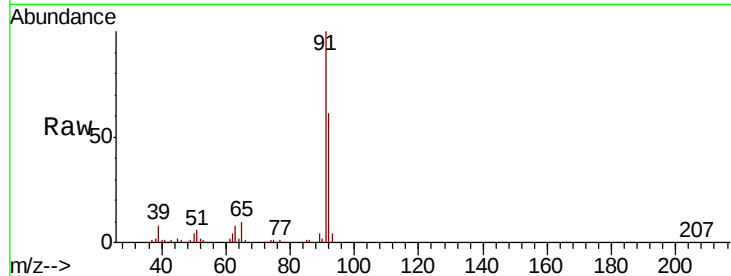
VSTD02522

Tot Ion: 91 Resp: 701105

Ion Ratio Lower Upper

91 100

92 60.8 39.4 73.2



#45

trans-1,3-Dichloropropene

Concen: 25.265 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016843.D

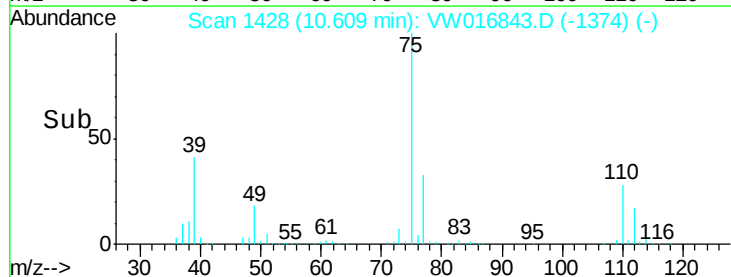
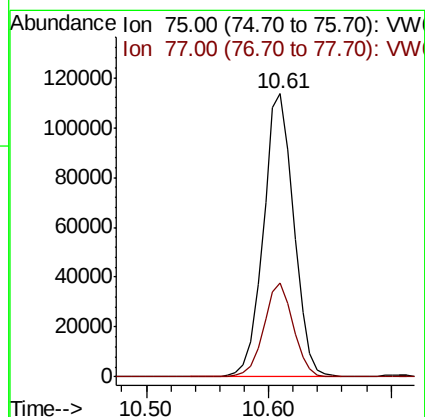
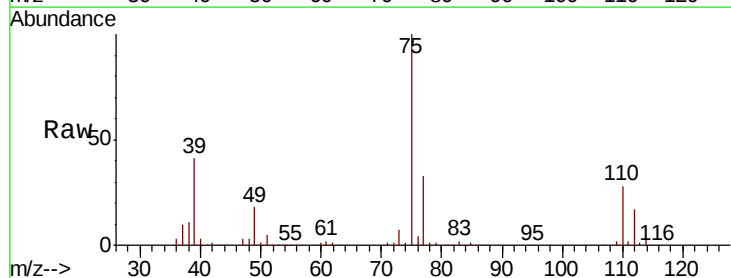
Acq: 07 Oct 2020 19:32

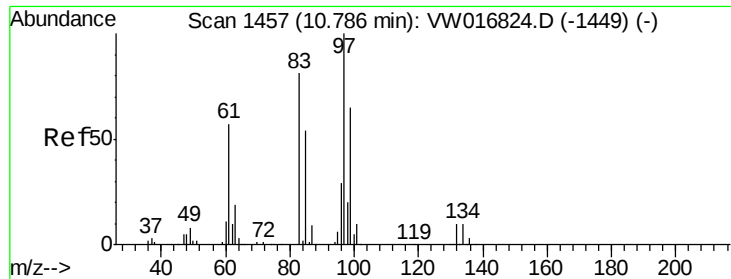
Tgt Ion: 75 Resp: 196563

Ion Ratio Lower Upper

75 100

77 33.1 22.2 41.2

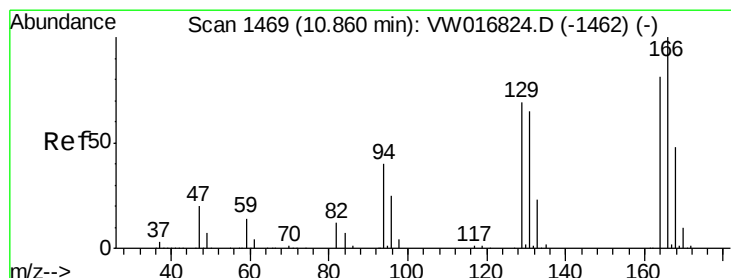
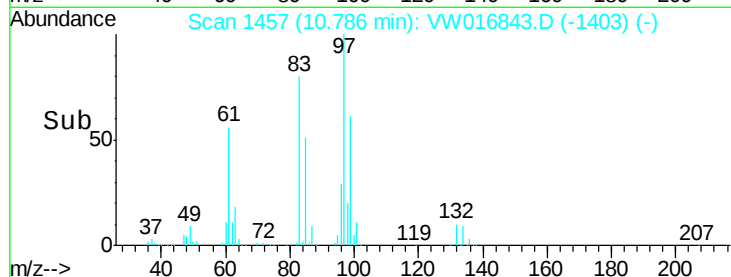
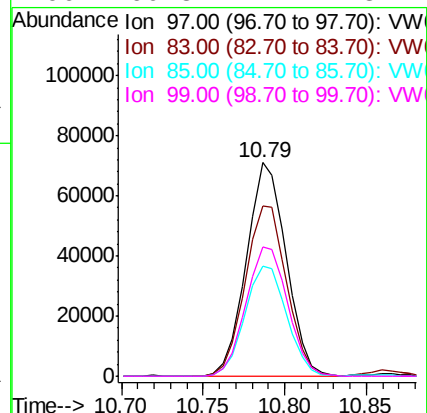
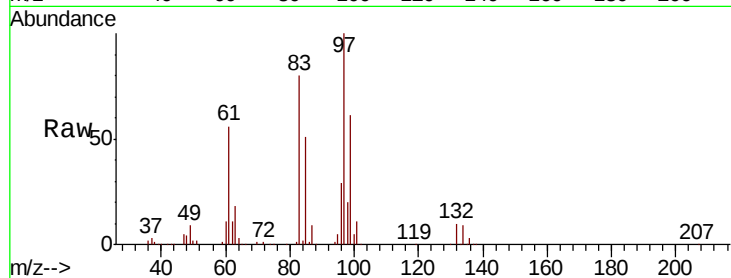




#46  
1,1,2-Trichloroethane  
Concen: 25.697 ug/L  
RT: 10.79 min Scan# 1457  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

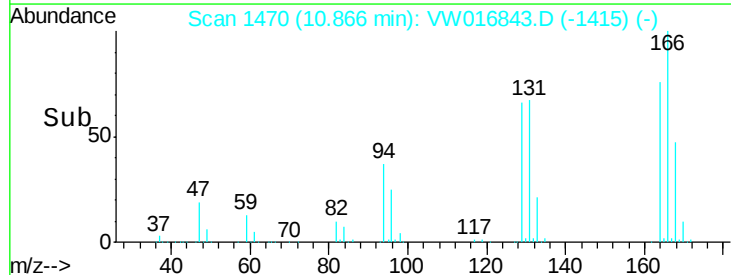
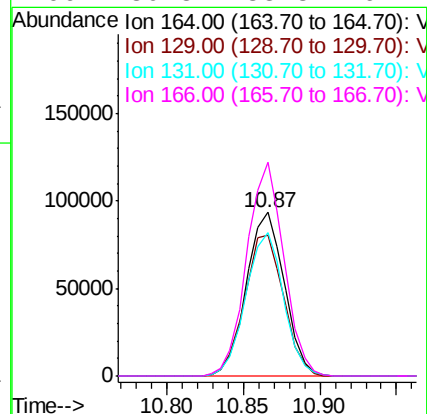
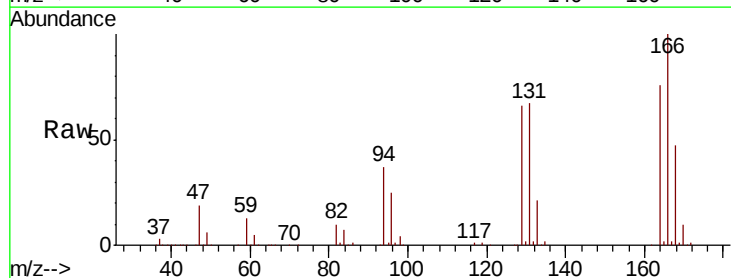
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

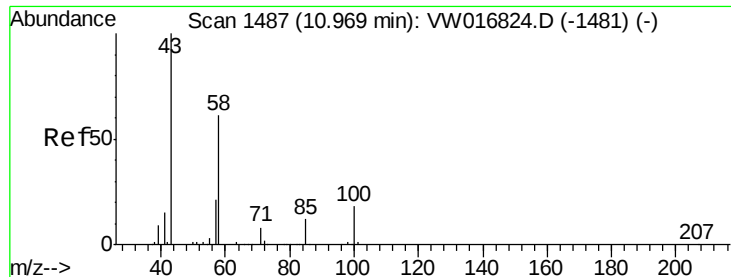
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 121135 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 79.8  | 56.8  | 105.4  |
| 85       | 51.3  | 37.0  | 68.6   |
| 99       | 60.8  | 44.2  | 82.2   |



#47  
Tetrachloroethene  
Concen: 24.054 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 161771 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 86.4  | 61.7  | 114.7  |
| 131      | 88.0  | 59.7  | 110.9  |
| 166      | 130.8 | 88.3  | 164.1  |

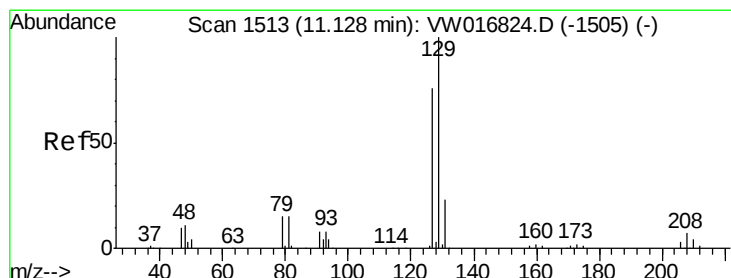
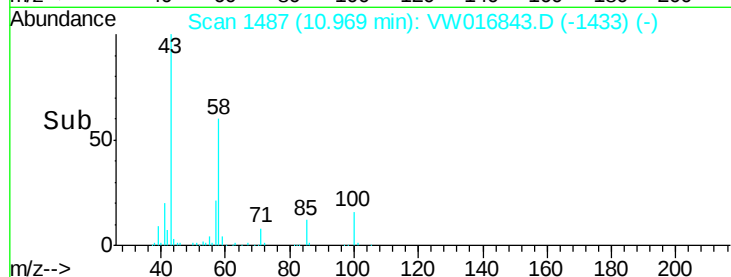
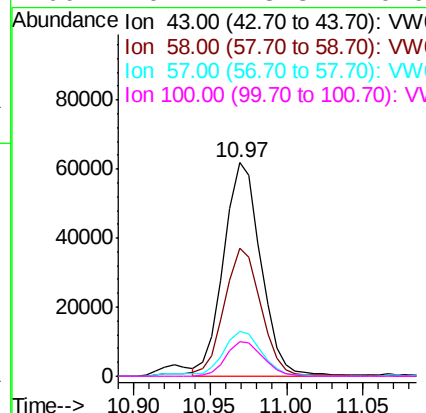
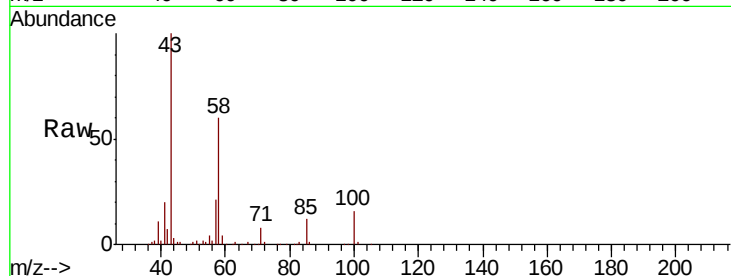




#49  
2-Hexanone  
Concen: 54.136 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

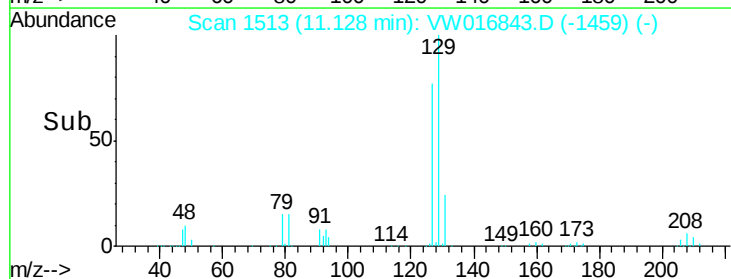
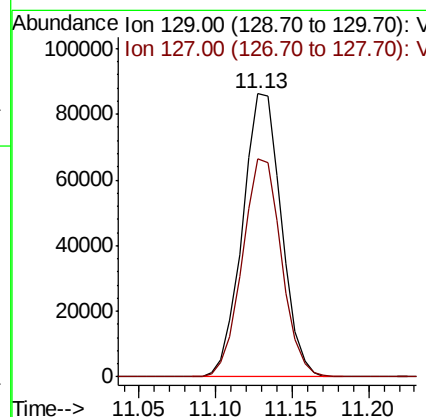
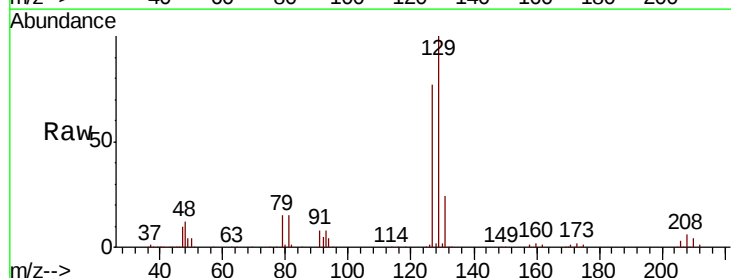
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

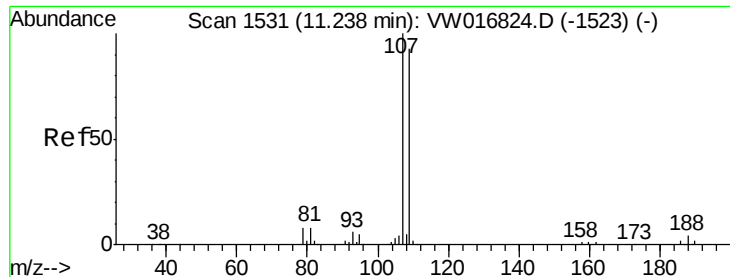
| Tot Ion   | 43    | Resp  | 104320 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 61.0  | 47.1  | 70.7   |
| 57        | 21.4  | 16.2  | 24.4   |
| 100       | 16.4  | 13.3  | 19.9   |



#50  
Dibromochloromethane  
Concen: 26.022 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

| Tgt Ion   | 129   | Resp  | 152498 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 129       | 100   |       |        |
| 127       | 77.1  | 54.0  | 100.4  |

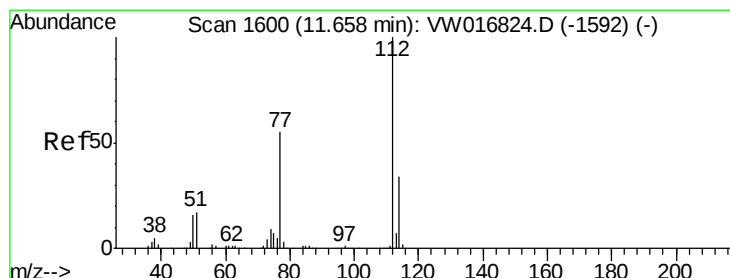
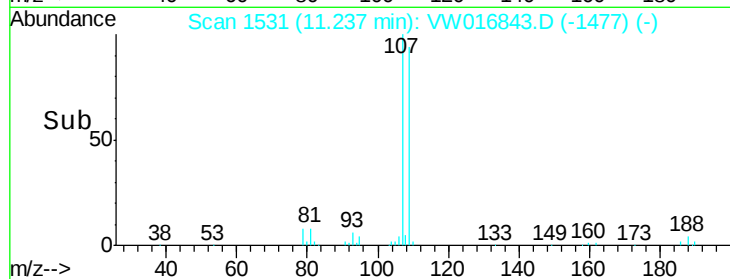
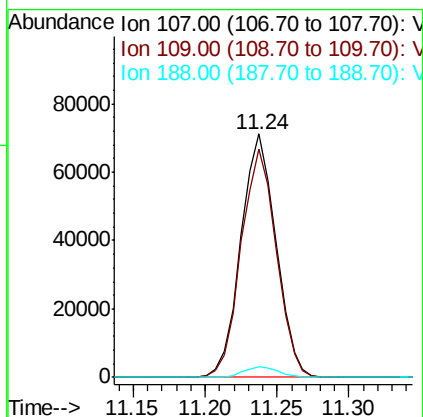
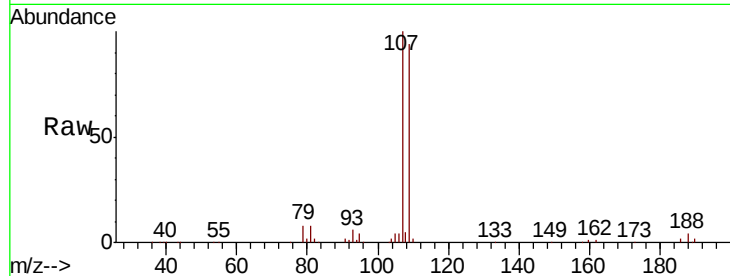




#51  
1,2-Dibromoethane  
Concen: 26.044 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

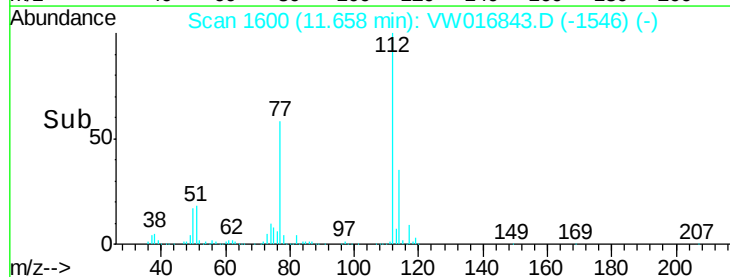
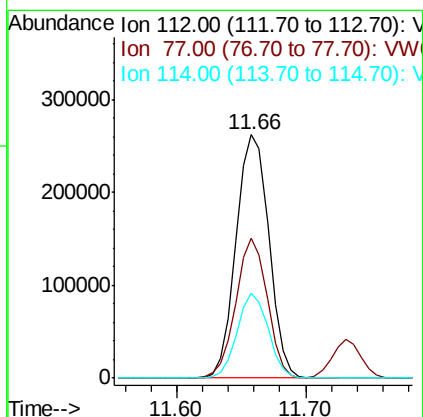
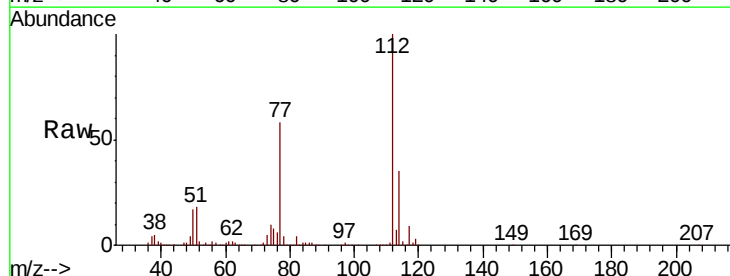
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

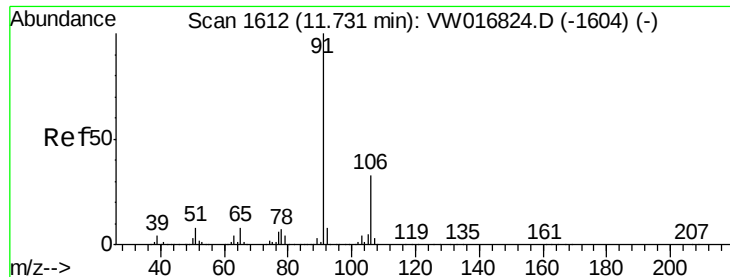
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.6  | 68.4  | 127.0 |
| 188     | 4.1   | 3.4   | 5.0   |



#52  
Chlorobenzene  
Concen: 24.253 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 57.6  | 44.0  | 66.0  |
| 114     | 34.8  | 22.3  | 41.3  |

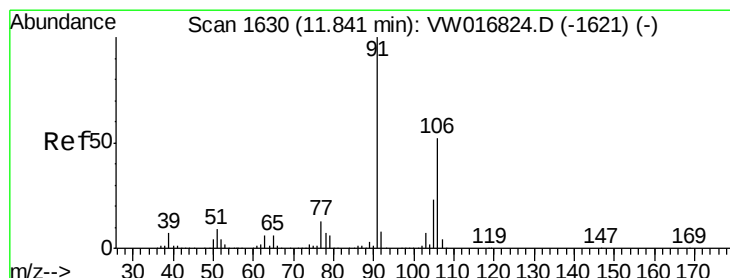
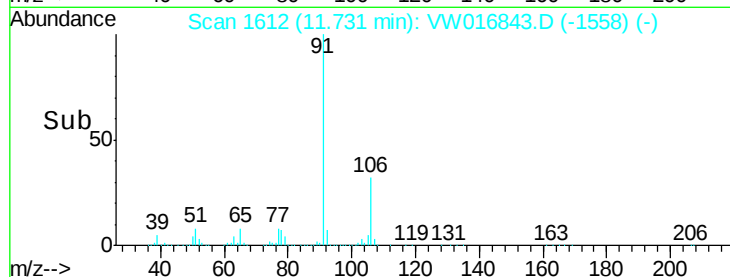
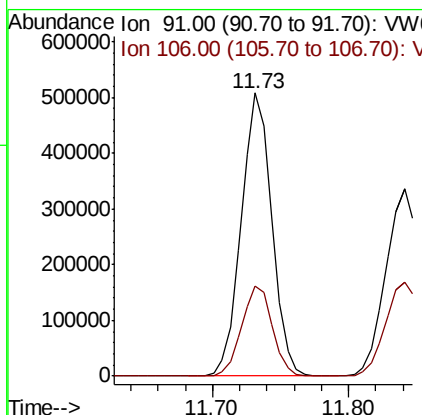
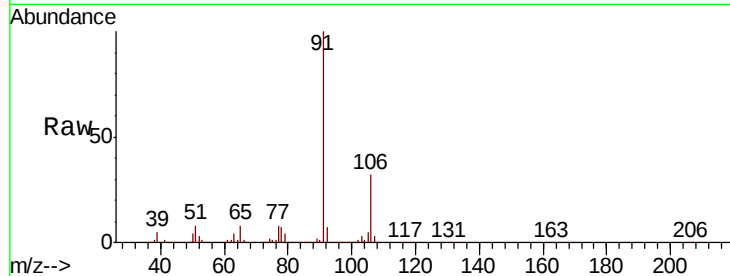




#53  
Ethylbenzene  
Concen: 25.016 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

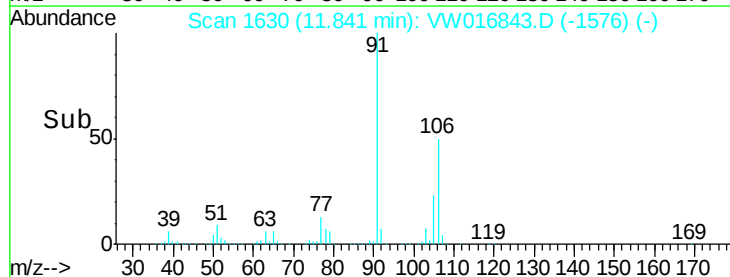
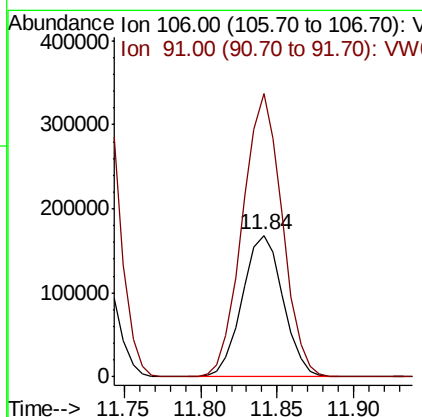
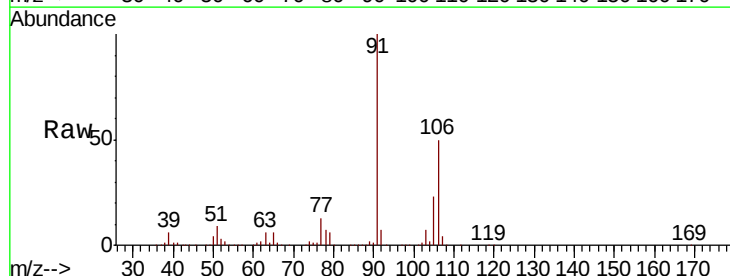
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02522

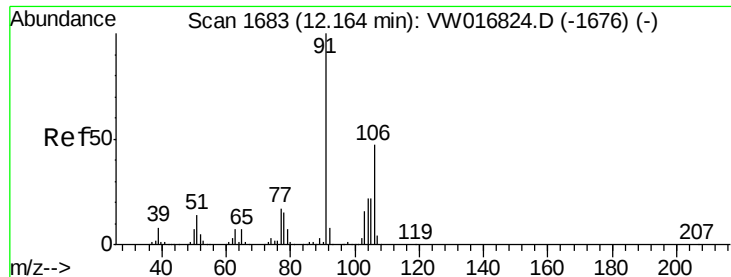
Tot Ion: 91 Resp: 798371  
Ion Ratio Lower Upper  
91 100  
106 31.7 22.8 42.4



#54  
m,p-Xylene  
Concen: 25.085 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016843.D  
Acq: 07 Oct 2020 19:32

Tgt Ion: 106 Resp: 311366  
Ion Ratio Lower Upper  
106 100  
91 199.8 135.6 251.8





#55

o-xylene

Concen: 24.539 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

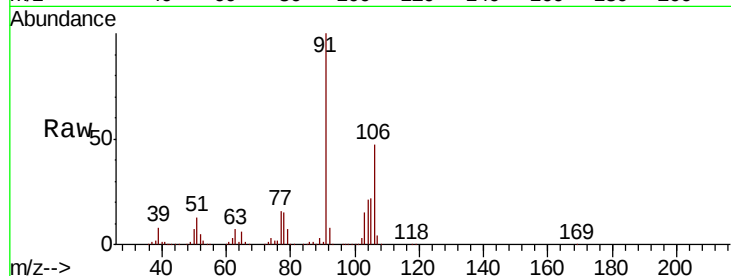
VSTD02522

Tot Ion:106 Resp: 291010

Ion Ratio Lower Upper

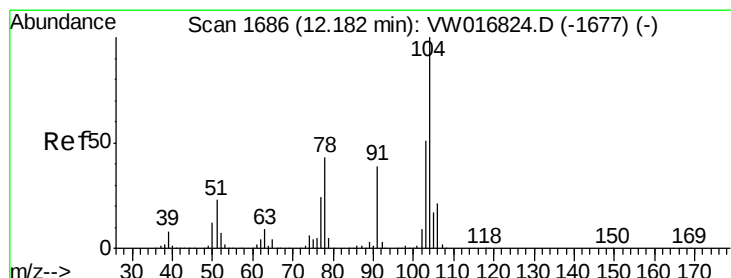
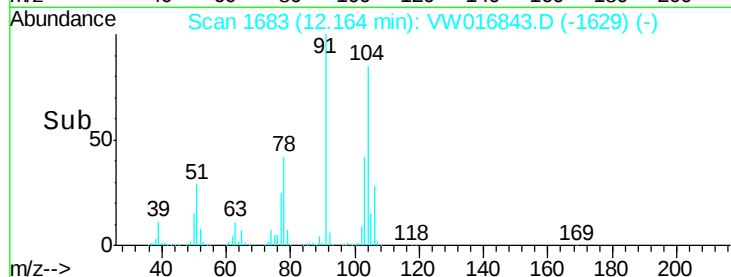
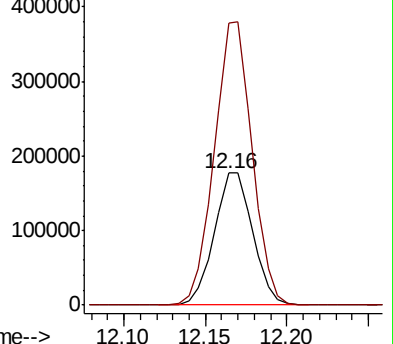
106 100

91 213.8 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.813 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW016843.D

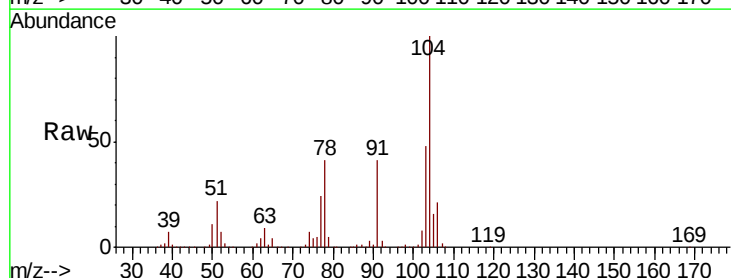
Acq: 07 Oct 2020 19:32

Tgt Ion:104 Resp: 505154

Ion Ratio Lower Upper

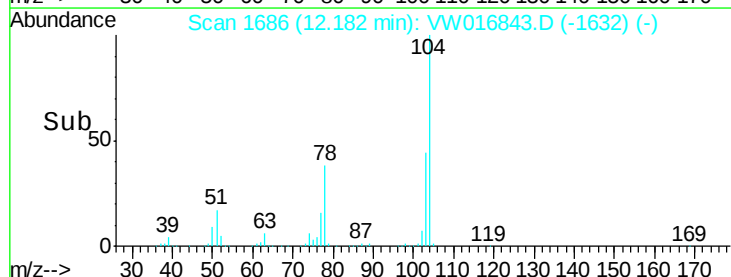
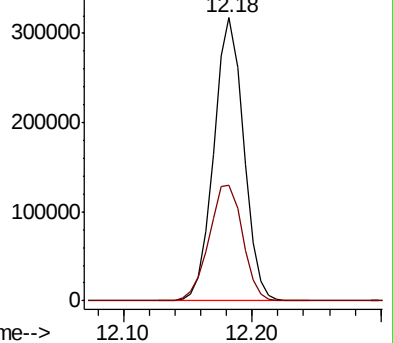
104 100

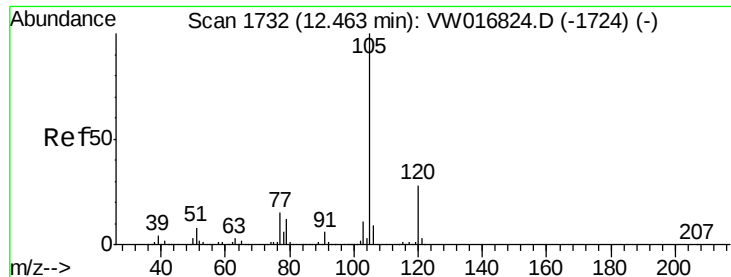
78 41.1 30.7 57.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.569 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02522

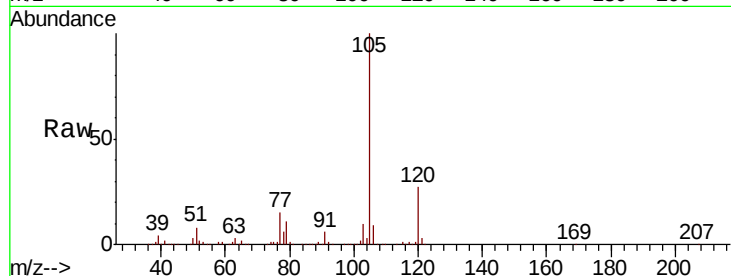
Tot Ion:105 Resp: 797855

Ion Ratio Lower Upper

105 100

120 27.2 21.5 32.3

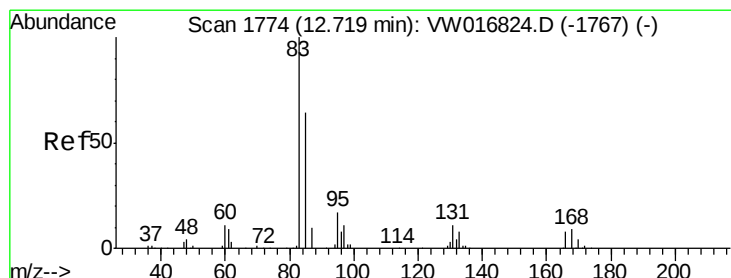
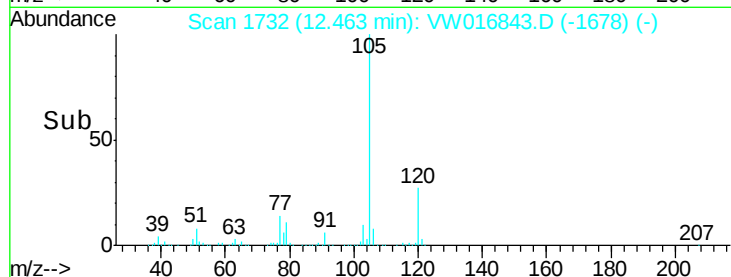
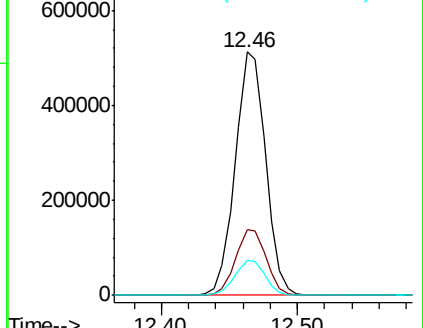
77 14.4 11.4 17.2



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: 26.028 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

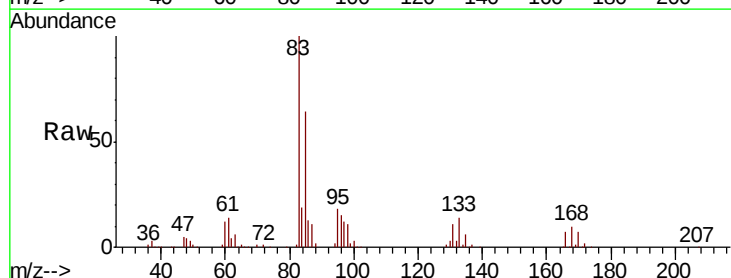
Tgt Ion: 83 Resp: 135600

Ion Ratio Lower Upper

83 100

85 64.1 43.3 80.5

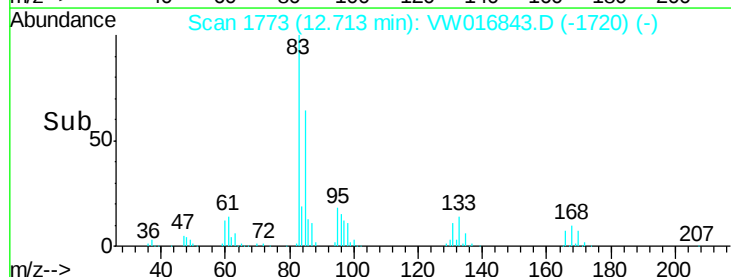
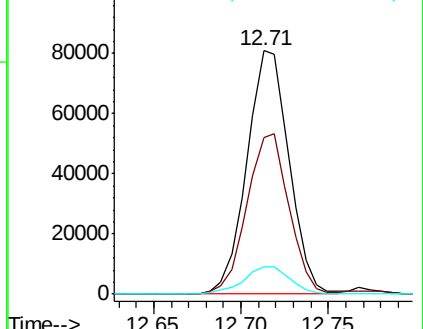
131 11.2 9.0 13.4

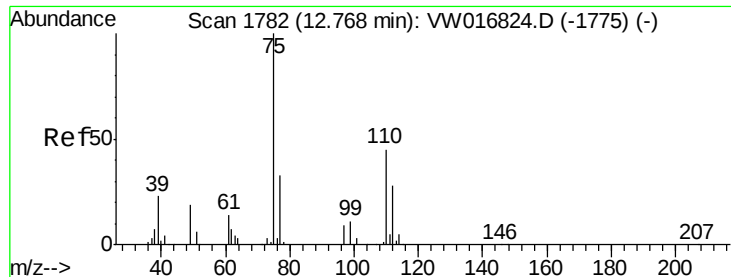


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.997 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

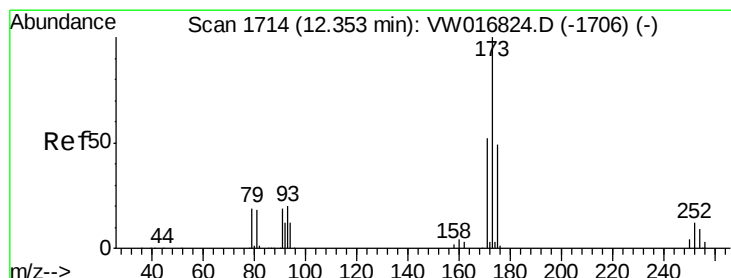
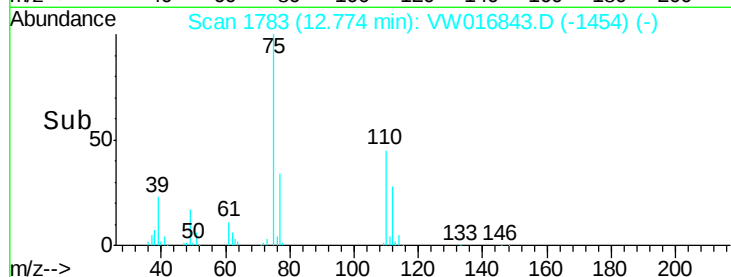
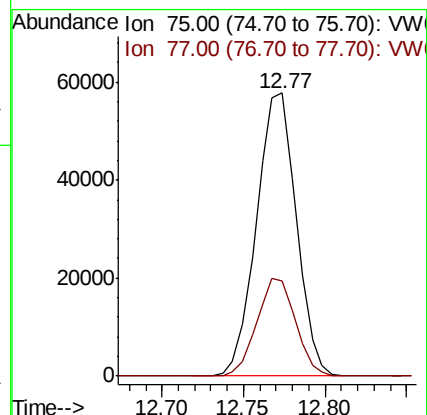
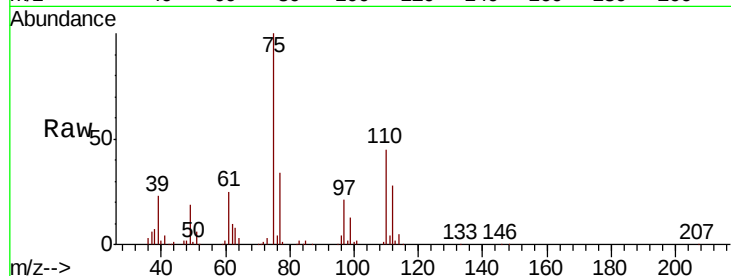
VSTD02522

Tot Ion: 75 Resp: 98114

Ion Ratio Lower Upper

75 100

77 33.6 26.2 39.2



#62

Bromoform

Concen: 24.533 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

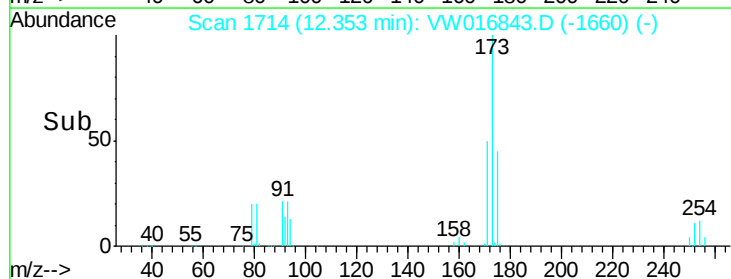
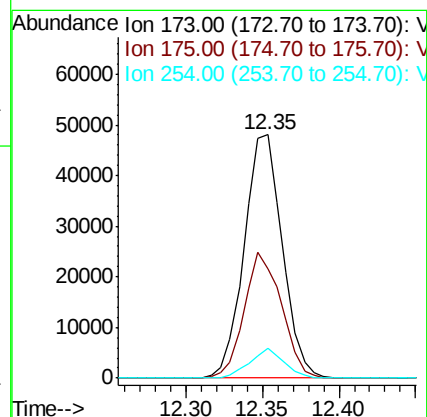
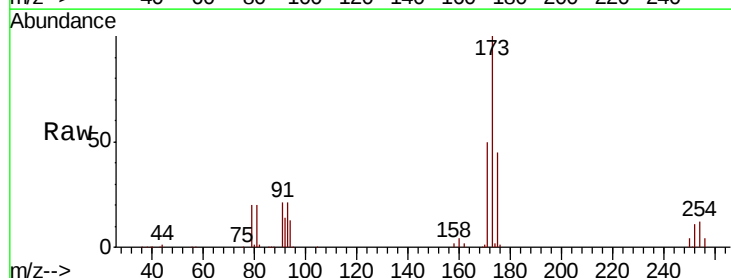
Tgt Ion: 173 Resp: 83044

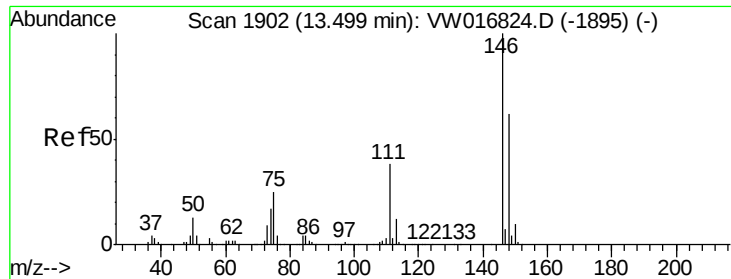
Ion Ratio Lower Upper

173 100

175 50.6 39.9 59.9

254 11.1 8.7 13.1

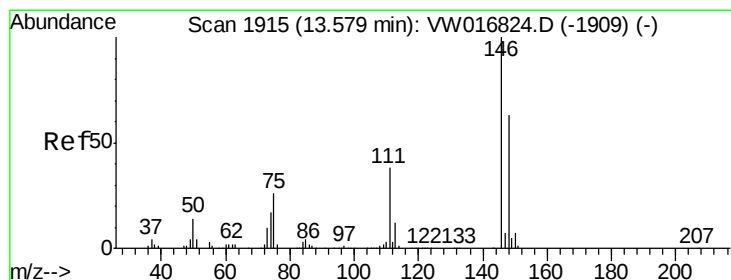
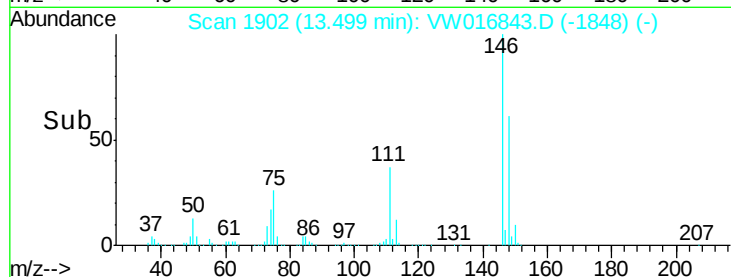
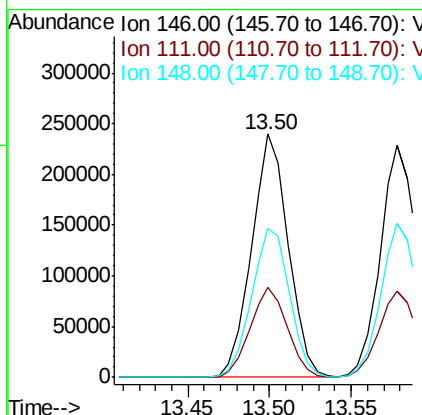
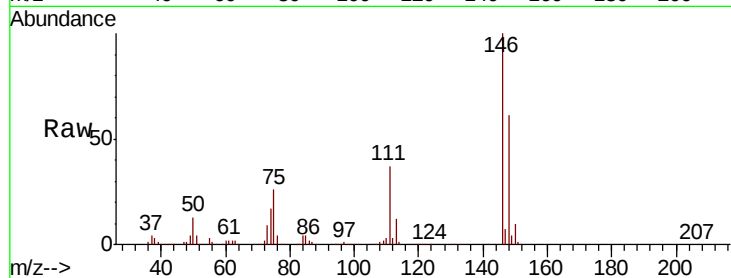




#63  
 1,3-Dichlorobenzene  
 Concen: 24.438 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

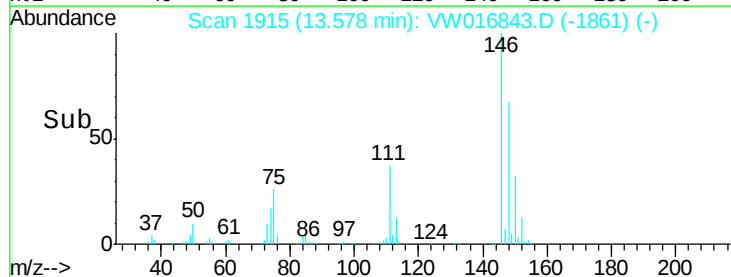
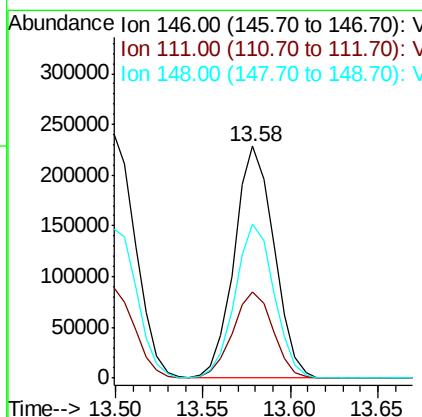
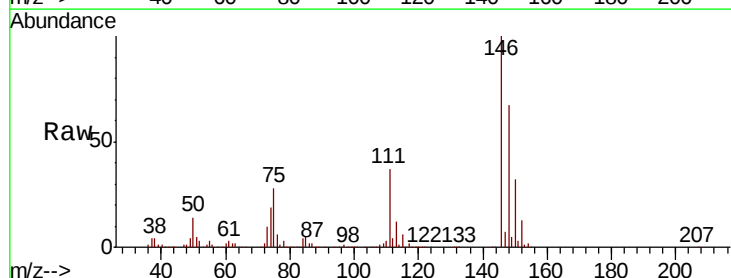
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

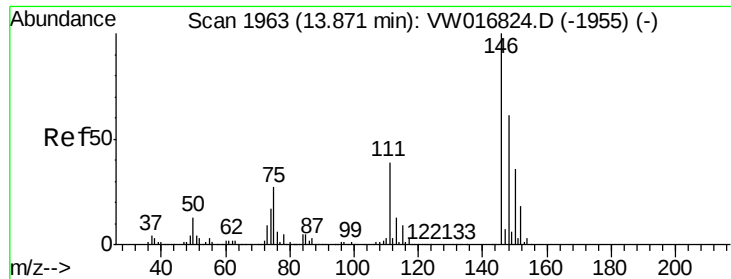
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.0  | 26.9  | 49.9  |
| 148     | 61.3  | 45.7  | 84.9  |



#64  
 1,4-Dichlorobenzene  
 Concen: 23.618 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.0  | 26.0  | 48.4  |
| 148     | 66.5  | 43.9  | 81.5  |

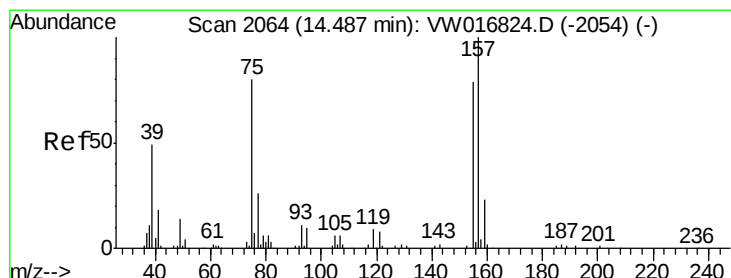
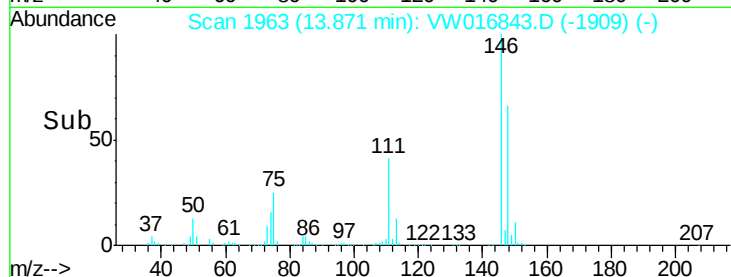
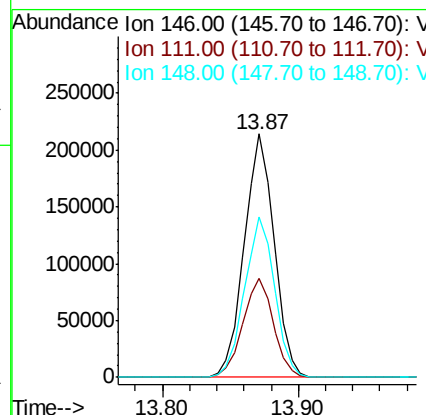
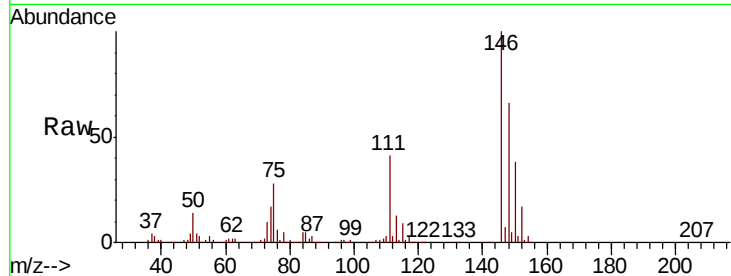




#65  
 1,2-Dichlorobenzene  
 Concen: 24.087 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

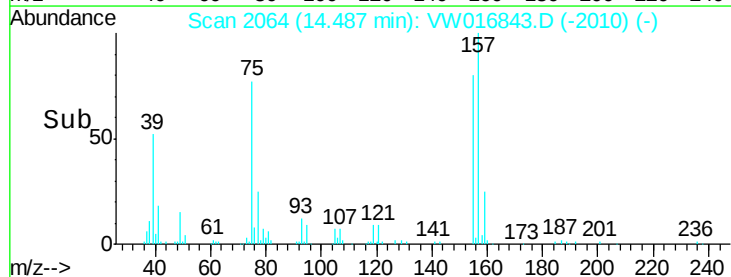
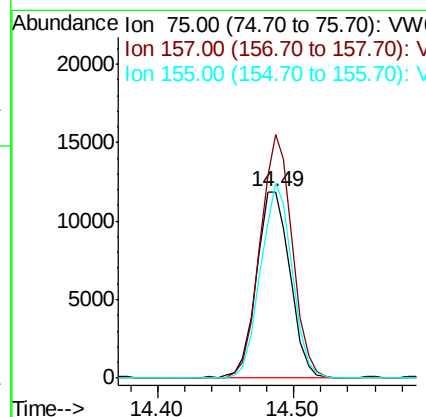
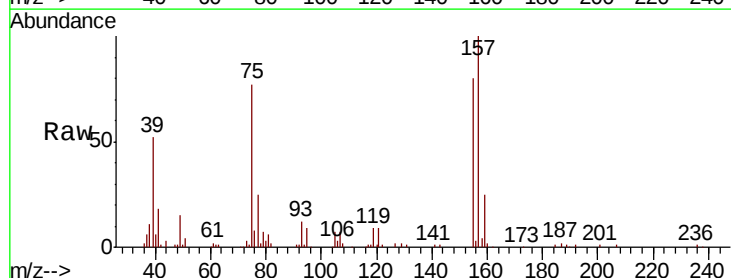
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

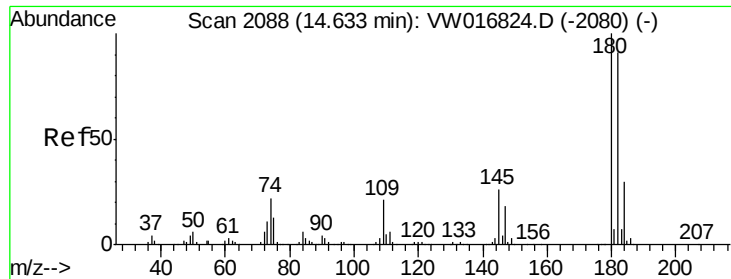
Tot Ion:146 Resp: 330277  
 Ion Ratio Lower Upper  
 146 100  
 111 40.9 32.1 48.1  
 148 65.7 51.8 77.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 24.711 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

Tgt Ion: 75 Resp: 20553  
 Ion Ratio Lower Upper  
 75 100  
 157 130.5 100.5 150.7  
 155 104.6 74.7 112.1

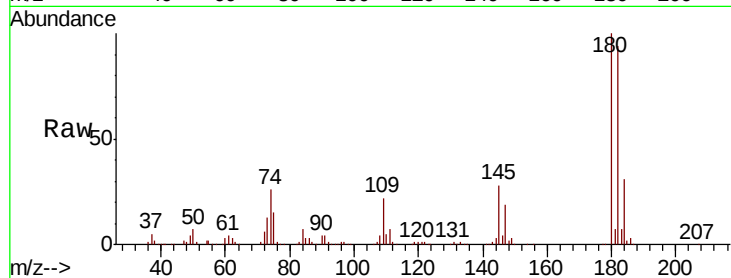




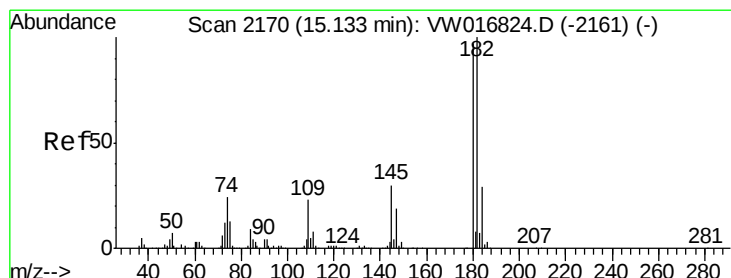
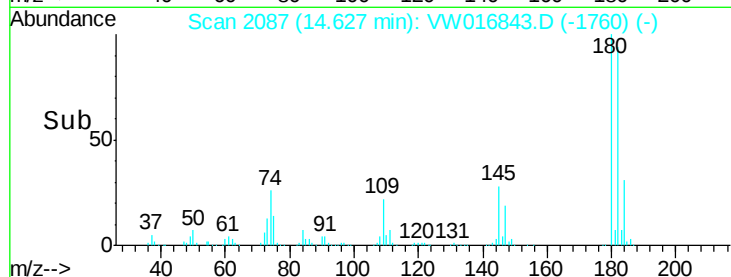
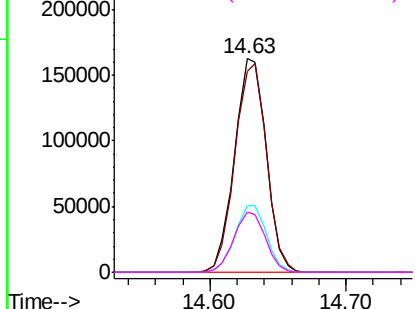
#67  
 1,3,5-Trichlorobenzene  
 Concen: 23.216 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.01 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02522

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 264276     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 97.2  | 79.0 118.6 |
| 184         | 31.1  | 24.9 37.3  |
| 145         | 28.1  | 23.0 34.4  |

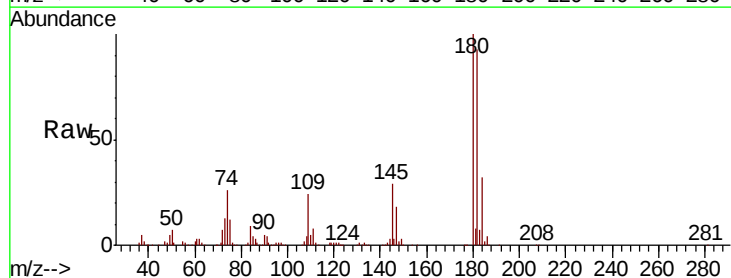


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

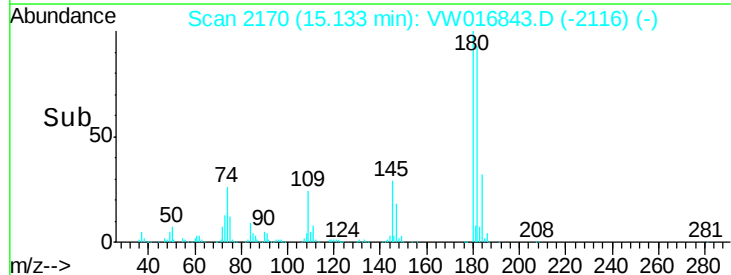
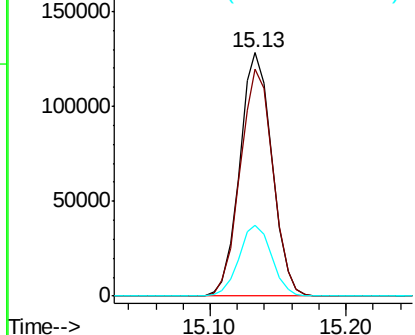


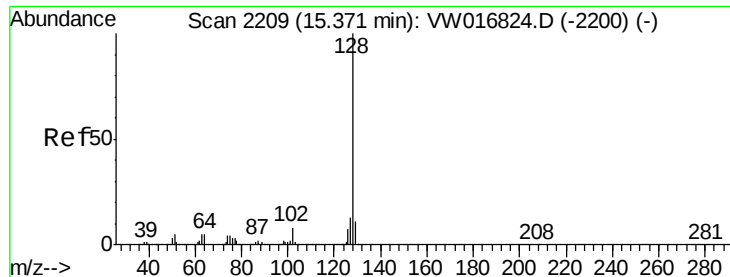
#68  
 1,2,4-trichlorobenzene  
 Concen: 22.767 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW016843.D  
 Acq: 07 Oct 2020 19:32

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 212871     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.7  | 74.2 111.2 |
| 145         | 29.3  | 23.4 35.0  |



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





#69

Naphthalene

Concen: 25.664 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02522

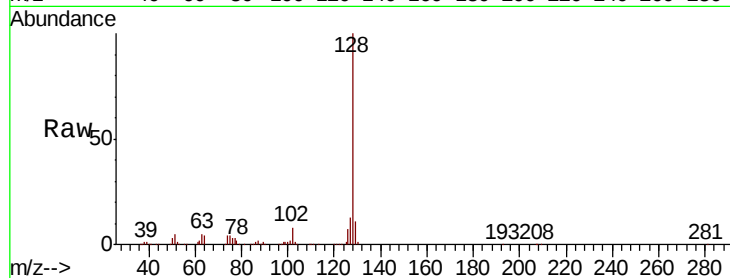
Tot Ion:128 Resp: 397347

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

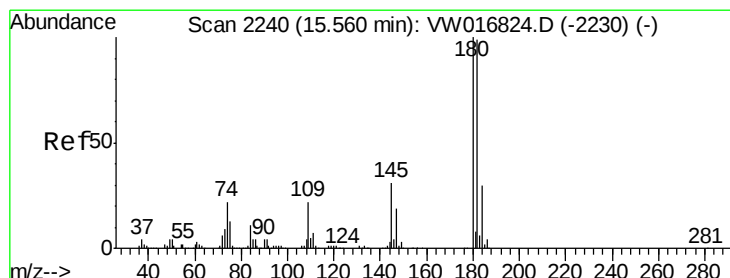
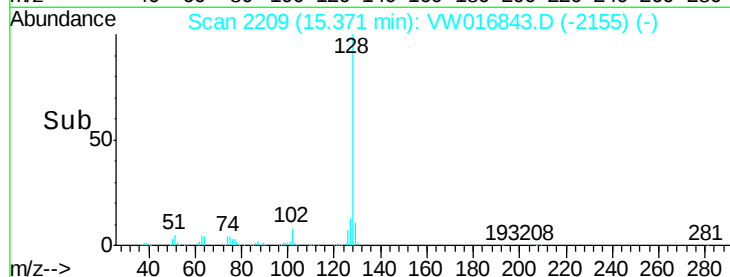
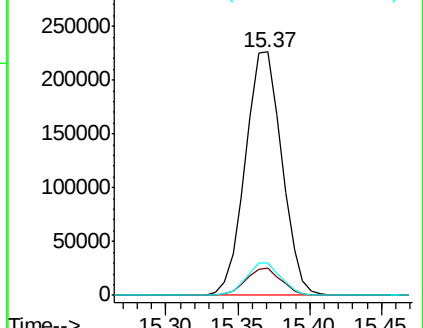
127 12.8 10.1 15.1



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: 24.322 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016843.D

Acq: 07 Oct 2020 19:32

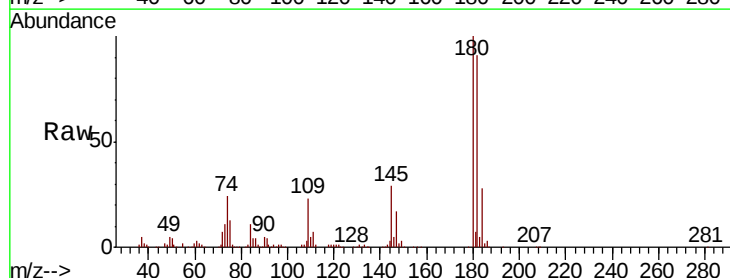
Tgt Ion:180 Resp: 195409

Ion Ratio Lower Upper

180 100

182 94.5 74.1 111.1

145 30.1 24.8 37.2



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

