

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101720\  
 Data File : VW016923.D  
 Acq On : 16 Oct 2020 12:01  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 17 00:40:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 14:38:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 507183   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 467869   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 233250   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 113665   | 22.72    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.88%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 98332    | 23.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.72%   |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 250848   | 23.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.44%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 71019    | 62.67    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 125.34%  |
| 24) Chloroform-d               | 7.65   | 84    | 281041   | 26.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.04%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 138508   | 26.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.20%  |
| 29) Benzene-d6                 | 8.27   | 84    | 534804   | 25.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.68%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 149835   | 26.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.96%  |
| 37) Toluene-d8                 | 10.32  | 98    | 498337   | 24.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.40%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 66222    | 26.29    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.16%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 59796    | 67.71    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 135.42%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 136560   | 29.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 118.40%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 200117   | 27.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 108.20%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 127164   | 20.977 | ug/L  | 93     |
| 3) Chloromethane               | 2.21 | 50   | 108457   | 20.296 | ug/L  | 99     |
| 5) Vinyl chloride              | 2.37 | 62   | 174260   | 25.119 | ug/L  | 98     |
| 6) Bromomethane                | 2.78 | 94   | 116858   | 22.913 | ug/L  | 98     |
| 8) Chloroethane                | 2.93 | 64   | 102433   | 23.924 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 111811   | 20.860 | ug/L  | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 164832   | 24.139 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 155626   | 23.732 | ug/L  | 94     |
| 13) Acetone                    | 4.13 | 43   | 46450    | 54.162 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.38 | 76   | 440504   | 23.427 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 57208    | 27.919 | ug/L  | 97     |
| 16) Methylene chloride         | 4.92 | 84   | 152246   | 21.751 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 184112   | 25.090 | ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 163618   | 23.884 | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 260162   | 24.661 | ug/L  | 98     |
| 21) 2-Butanone                 | 7.16 | 43   | 71713    | 49.811 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 172497   | 24.678 | ug/L  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101720\  
 Data File : VW016923.D  
 Acq On : 16 Oct 2020 12:01  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 17 00:40:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 14:38:54 2020  
 Response via : Initial Calibration

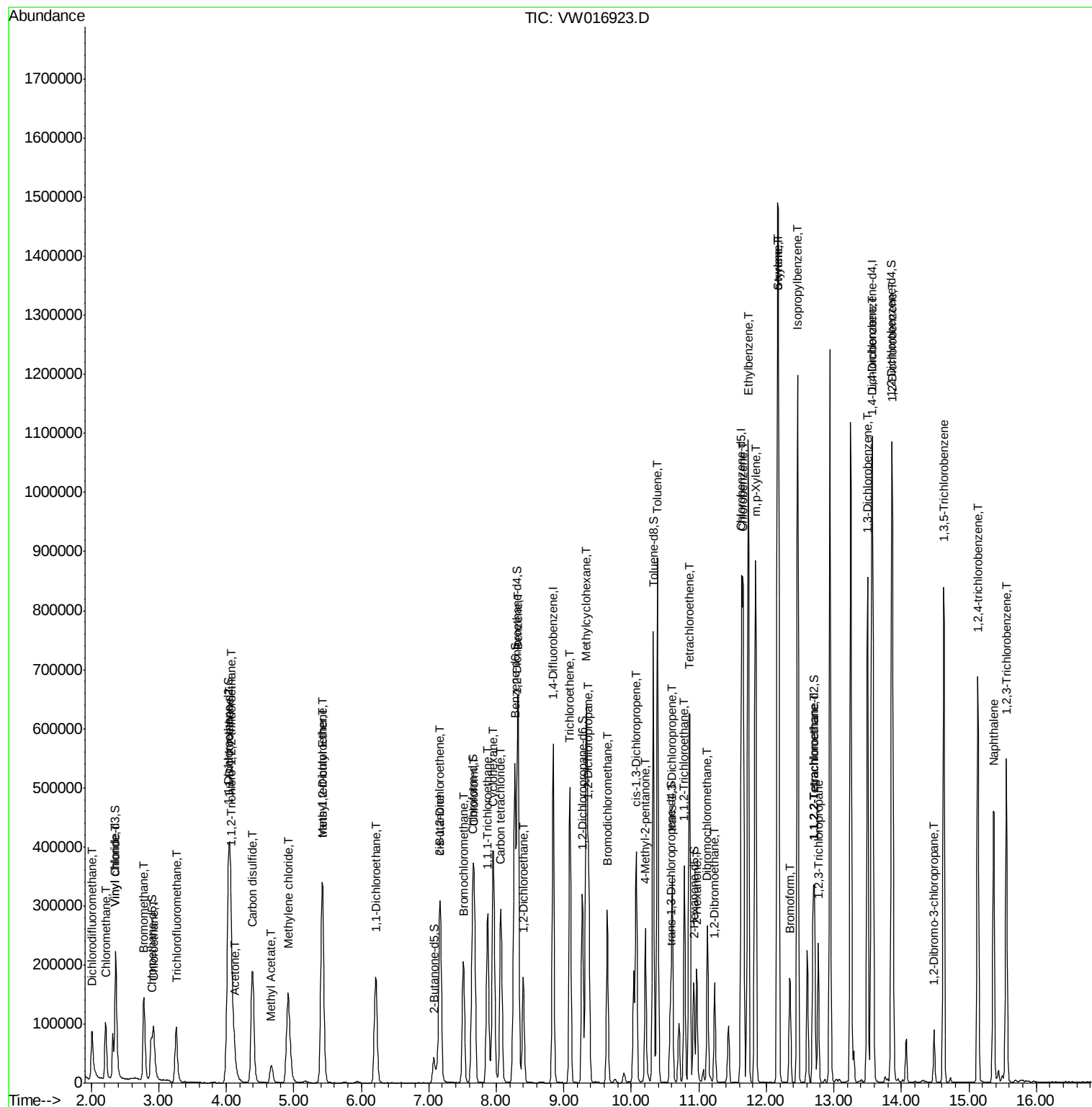
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 82324    | 25.080 | ug/L  | 98       |
| 25) Chloroform                 | 7.68  | 83   | 283469   | 24.882 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 167862   | 24.631 | ug/L  | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 231928   | 23.904 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 245331   | 24.657 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 232479   | 23.944 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 605386   | 24.095 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 169429   | 23.840 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 283870   | 23.755 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 139989   | 24.640 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 199256   | 24.965 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 227826   | 25.151 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 162775   | 56.909 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 675227   | 24.225 | ug/L  | 91       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 198183   | 26.000 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 118668   | 25.694 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 156147   | 23.698 | ug/L  | 96       |
| 49) 2-Hexanone                 | 10.97 | 43   | 111174   | 58.887 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 148245   | 25.820 | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 116491   | 25.667 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.66 | 112  | 451192   | 24.121 | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 764949   | 24.465 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 302091   | 24.842 | ug/L  | 98       |
| 55) o-xylene                   | 12.16 | 106  | 289591   | 24.924 | ug/L  | 98       |
| 56) Styrene                    | 12.18 | 104  | 484657   | 25.278 | ug/L  | 96       |
| 57) Isopropylbenzene           | 12.46 | 105  | 791905   | 24.890 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 139597   | 27.350 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 97841    | 26.461 | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 82769    | 25.225 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 372249   | 25.076 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 362063   | 24.388 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 328984   | 24.752 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 21760    | 26.990 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 276556   | 25.063 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 236866   | 26.135 | ug/L  | 100      |
| 69) Naphthalene                | 15.37 | 128  | 425896   | 28.378 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 208306   | 26.747 | ug/L  | 99       |

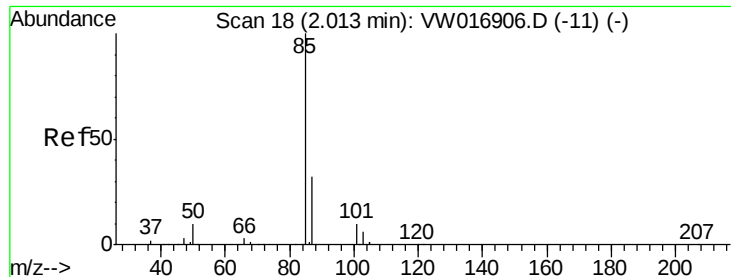
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101720\  
 Data File : VW016923.D  
 Acq On : 16 Oct 2020 12:01  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 17 00:40:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 14:38:54 2020  
 Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 20.977 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

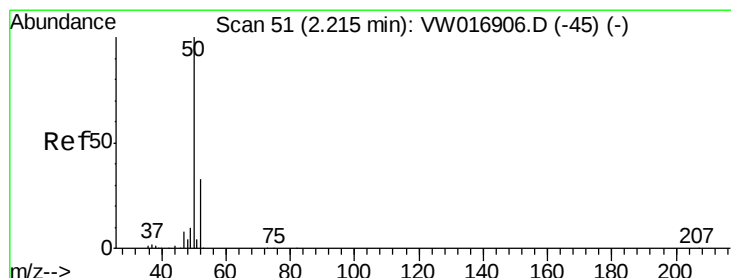
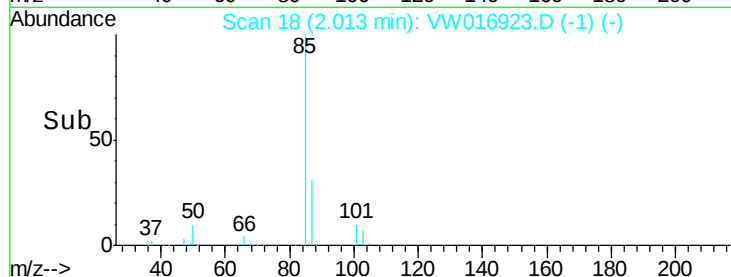
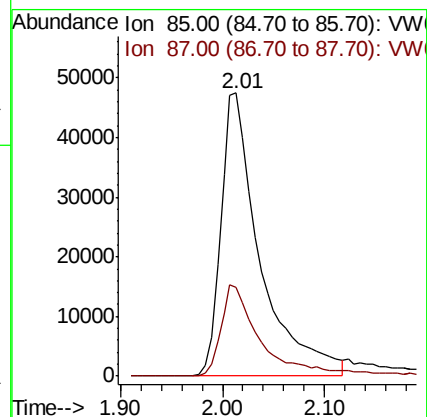
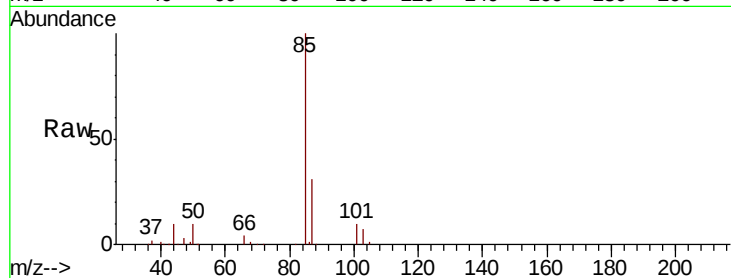
ClientSampled :

Tot Ion: 85 Resp: 127164

Ion Ratio Lower Upper

85 100

87 32.8 20.4 37.8



#3

Chloromethane

Concen: 20.296 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW016923.D

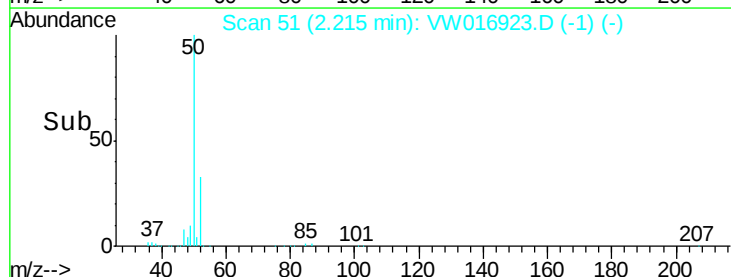
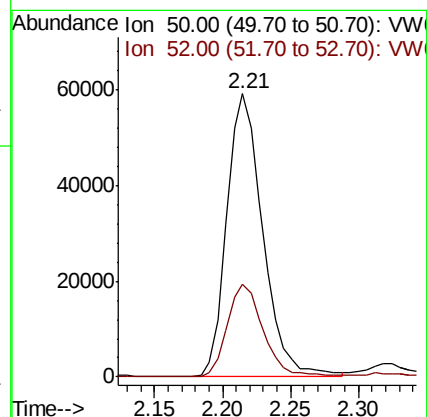
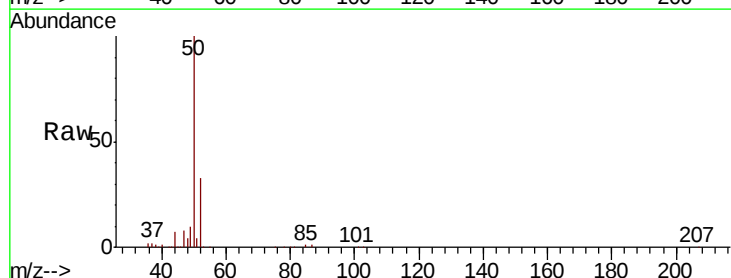
Acq: 16 Oct 2020 12:01

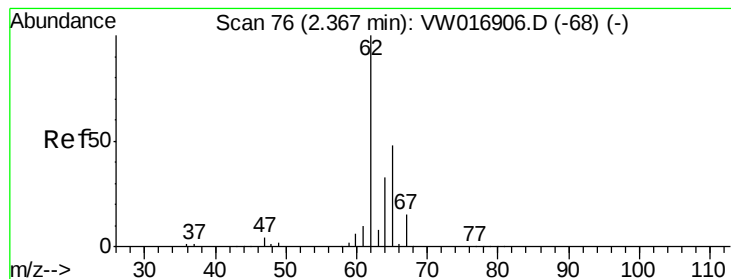
Tgt Ion: 50 Resp: 108457

Ion Ratio Lower Upper

50 100

52 32.8 22.7 42.3





#5

Vinyl chloride

Concen: 25.119 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

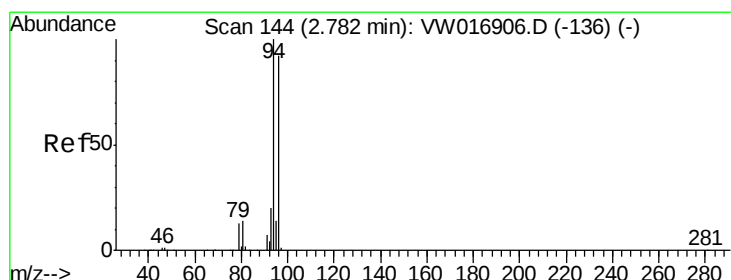
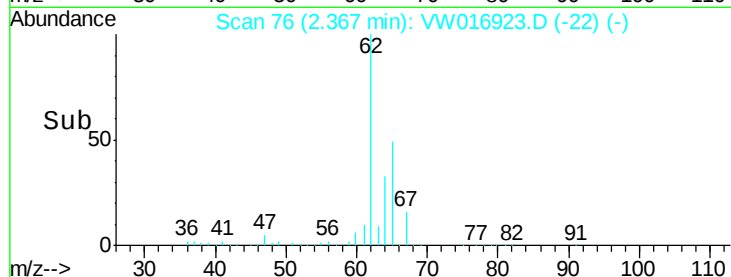
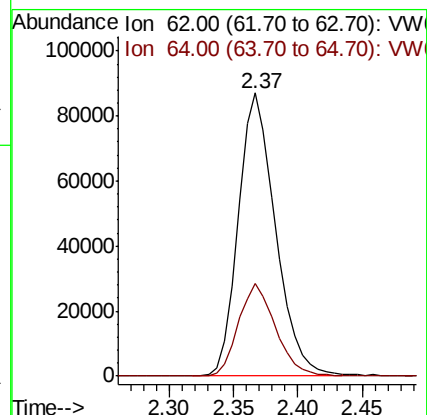
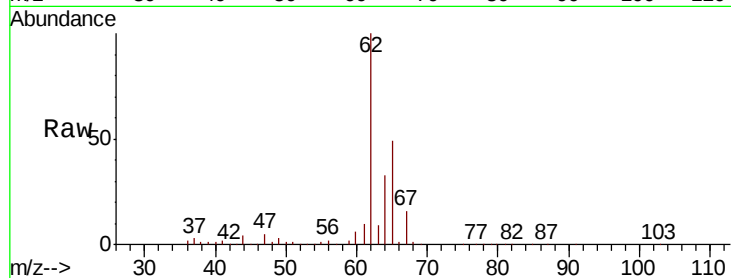
ClientSampleId :

Tot Ion: 62 Resp: 174260

Ion Ratio Lower Upper

62 100

64 32.5 23.5 43.7



#6

Bromomethane

Concen: 22.913 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW016923.D

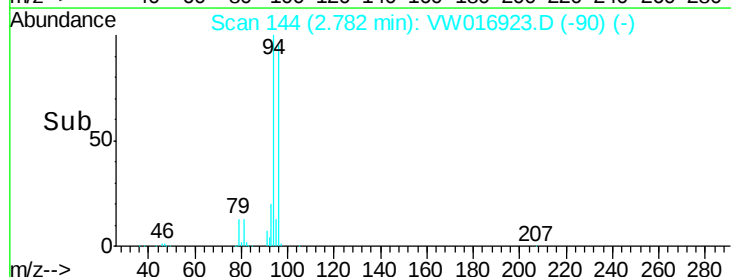
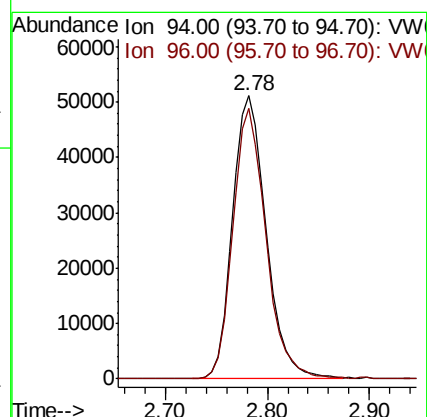
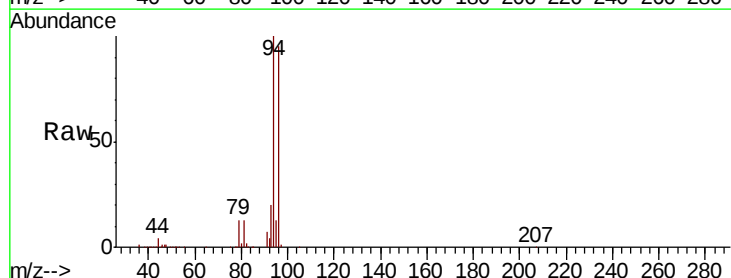
Acq: 16 Oct 2020 12:01

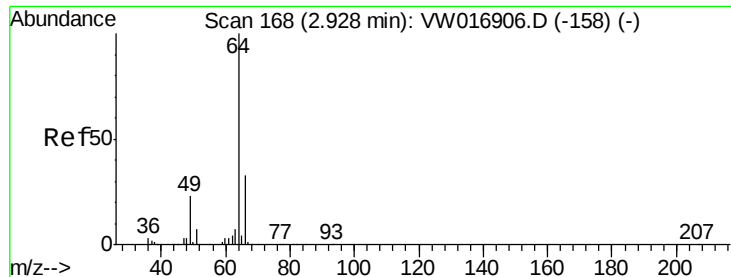
Tgt Ion: 94 Resp: 116858

Ion Ratio Lower Upper

94 100

96 93.3 9.5 180.7





#8

Chloroethane

Concen: 23.924 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

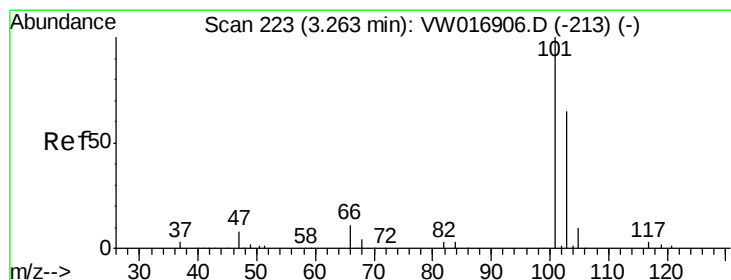
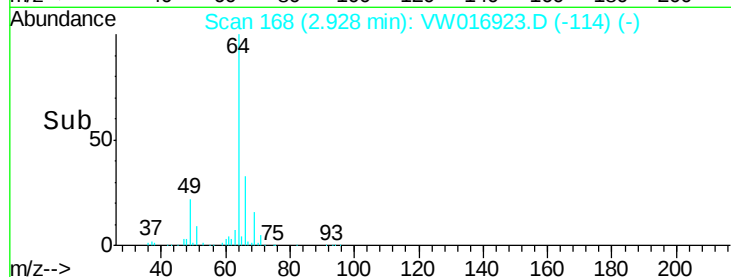
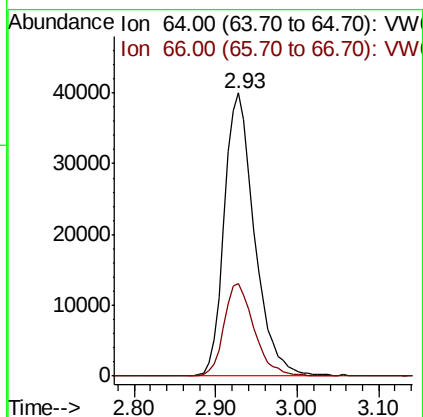
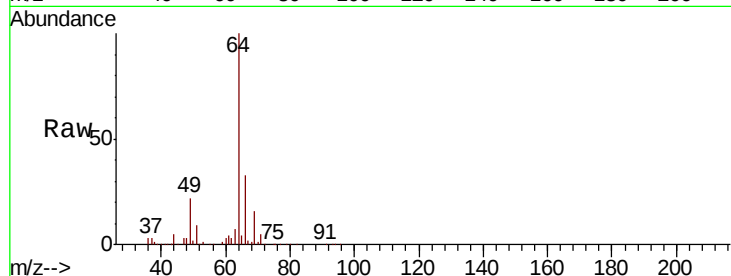
ClientSampleId :

Tot Ion: 64 Resp: 102433

Ion Ratio Lower Upper

64 100

66 32.9 22.5 41.7



#9

Trichlorofluoromethane

Concen: 20.860 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW016923.D

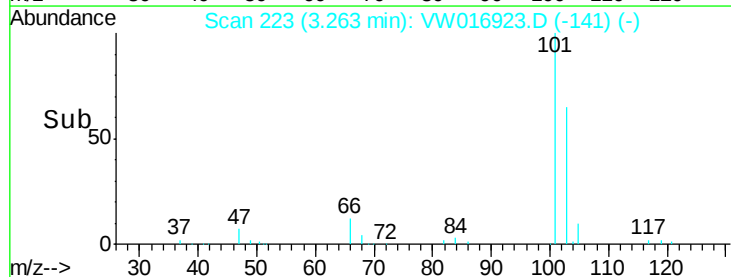
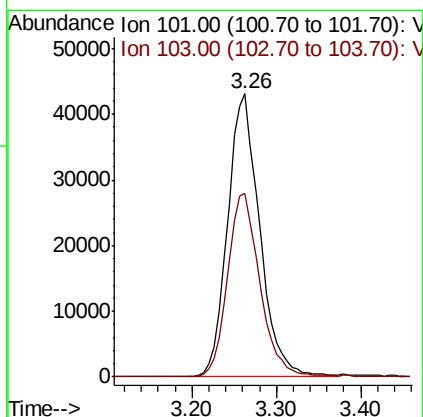
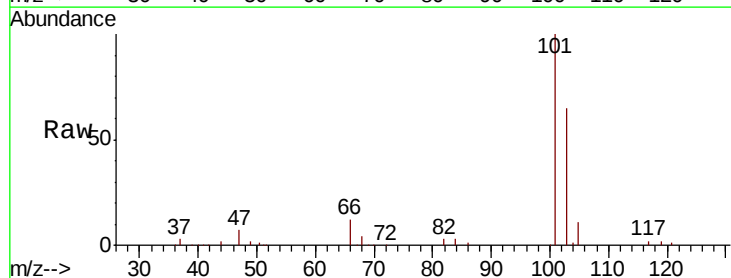
Acq: 16 Oct 2020 12:01

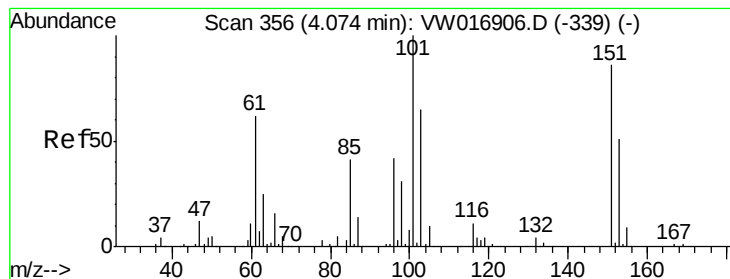
Tgt Ion: 101 Resp: 111811

Ion Ratio Lower Upper

101 100

103 64.9 45.2 84.0





#11

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

Concen: 24.139 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

ClientSampled :

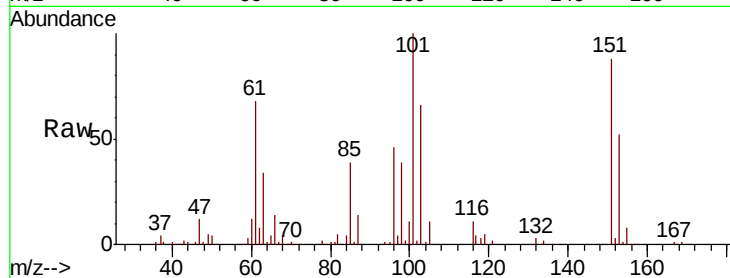
Tot Ion:101 Resp: 164832

Ion Ratio Lower Upper

101 100

85 41.6 31.7 47.5

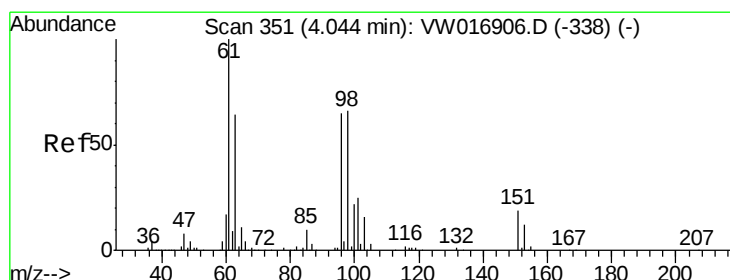
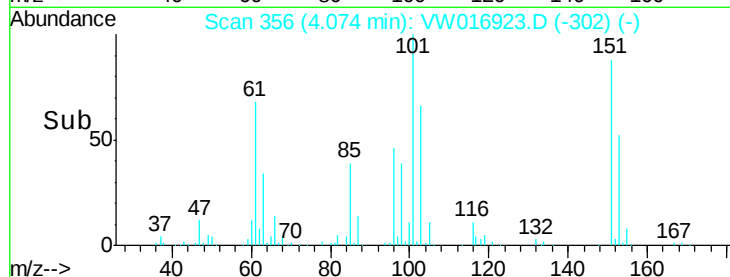
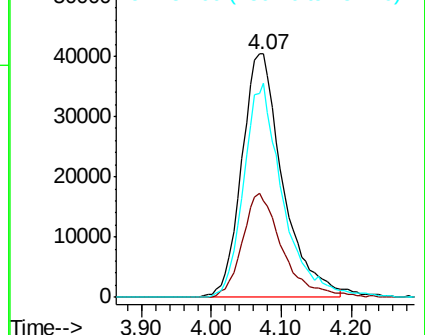
151 82.4 66.6 99.8



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: 23.732 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

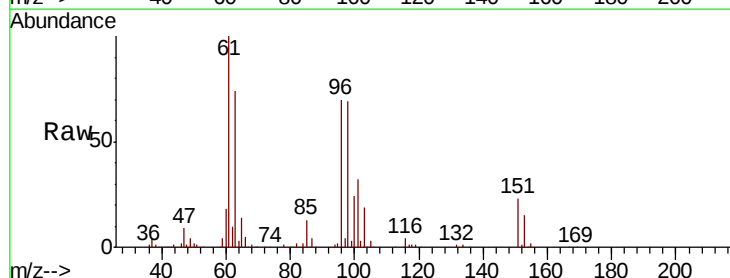
Tgt Ion: 96 Resp: 155626

Ion Ratio Lower Upper

96 100

61 143.1 105.1 195.1

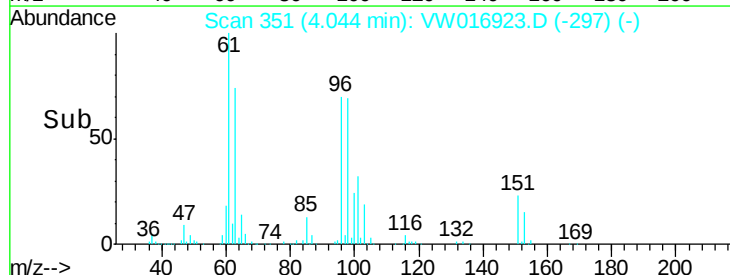
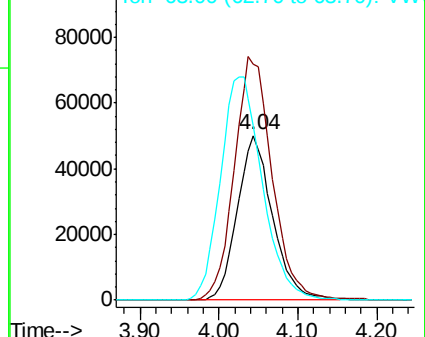
63 105.8 69.9 129.7

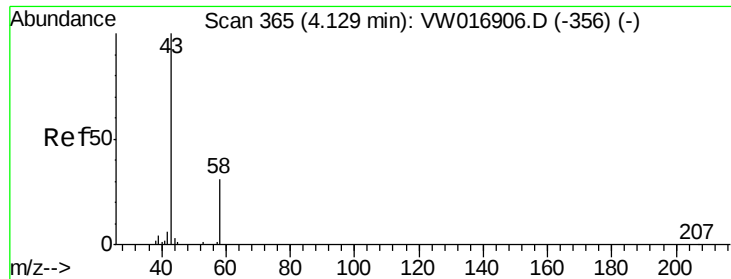


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 54.162 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

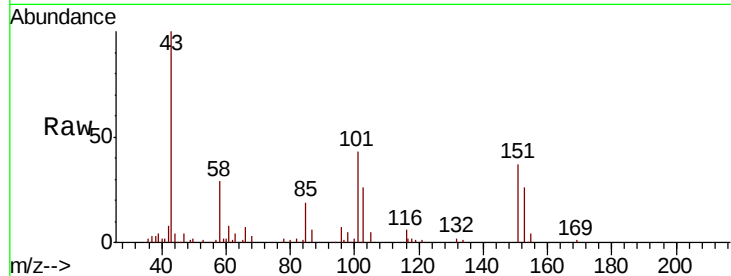
ClientSampleId :

Tot Ion: 43 Resp: 46450

Ion Ratio Lower Upper

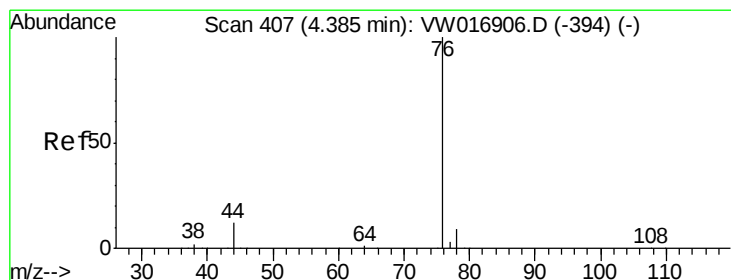
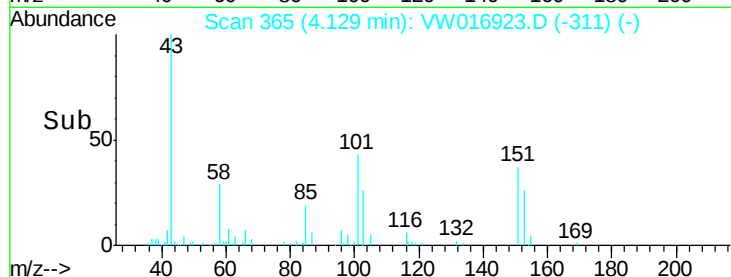
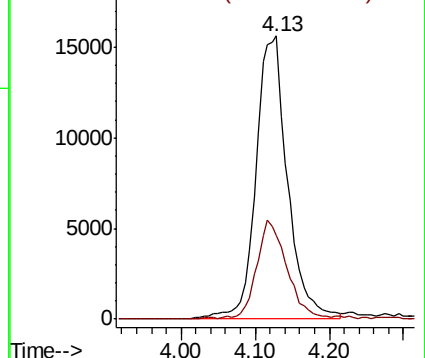
43 100

58 33.3 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.427 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW016923.D

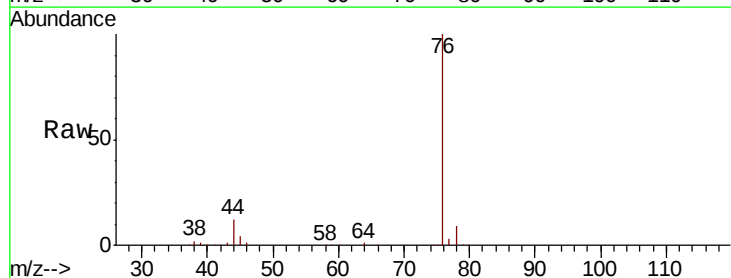
Acq: 16 Oct 2020 12:01

Tgt Ion: 76 Resp: 440504

Ion Ratio Lower Upper

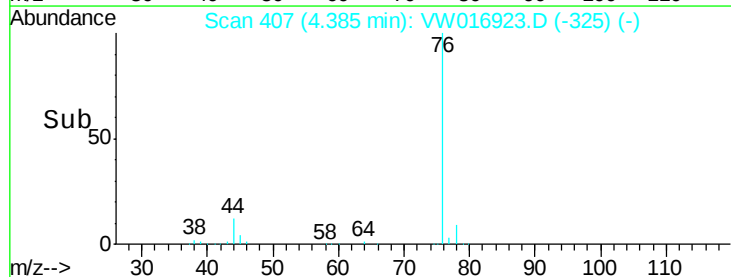
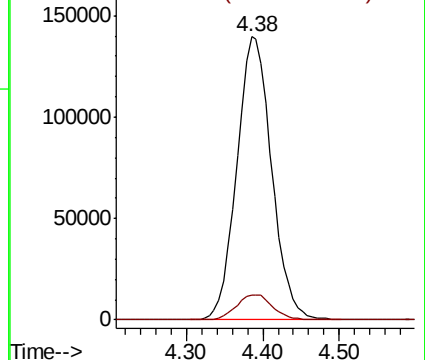
76 100

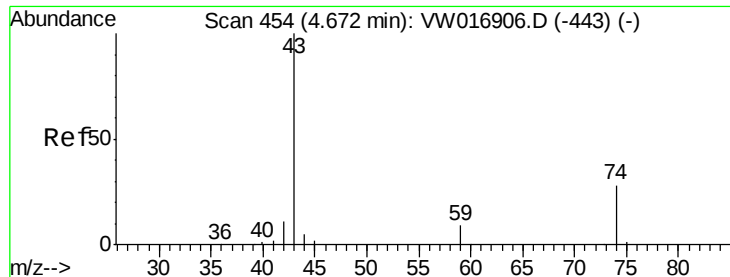
78 8.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

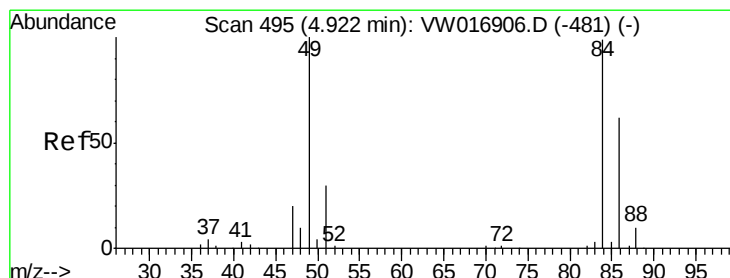
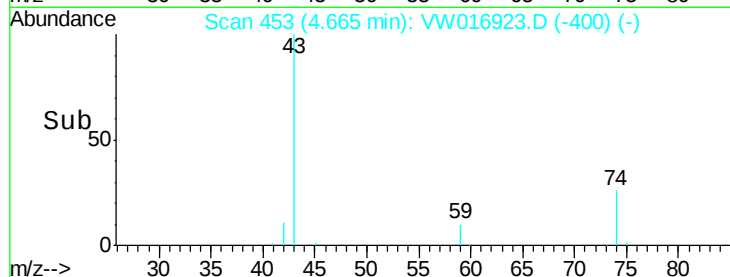
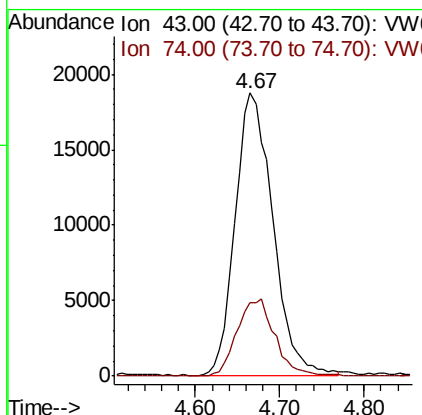
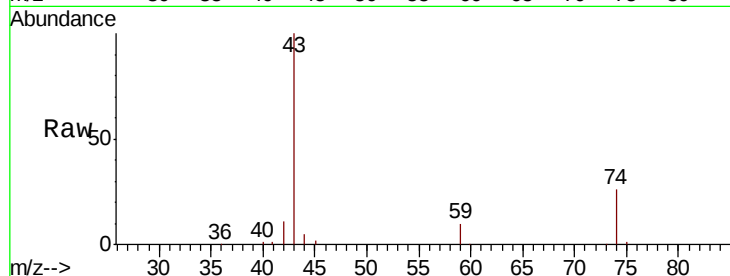




#15  
Methvl Acetate  
Concen: 27.919 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

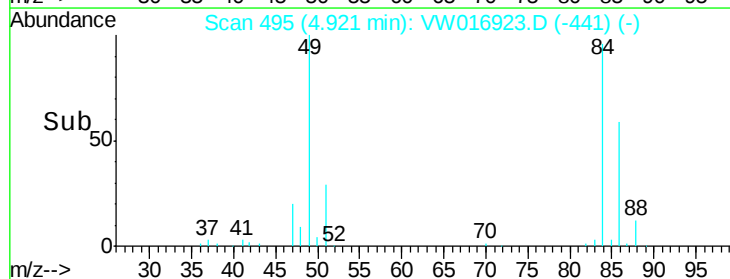
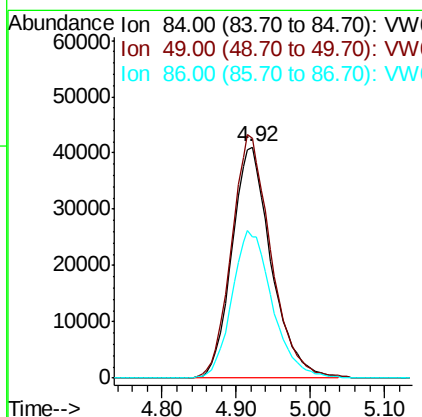
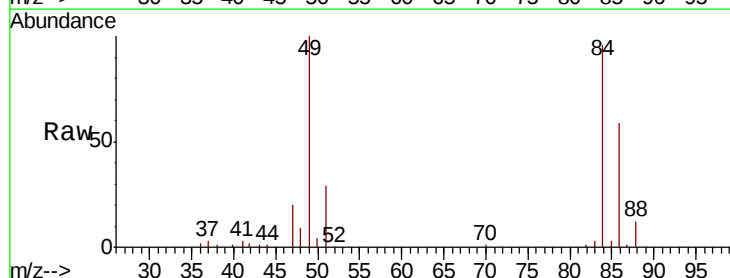
Instrument :  
MSVOA\_W  
ClientSampleId :

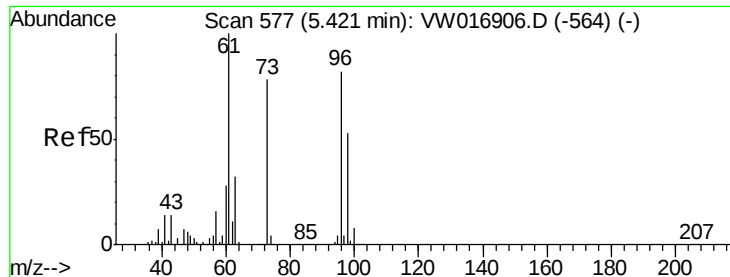
Tot Ion: 43 Resp: 57208  
Ion Ratio Lower Upper  
43 100  
74 27.0 22.7 34.1



#16  
Methylene chloride  
Concen: 21.751 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion: 84 Resp: 152246  
Ion Ratio Lower Upper  
84 100  
49 103.9 73.1 135.8  
86 61.2 46.0 85.4

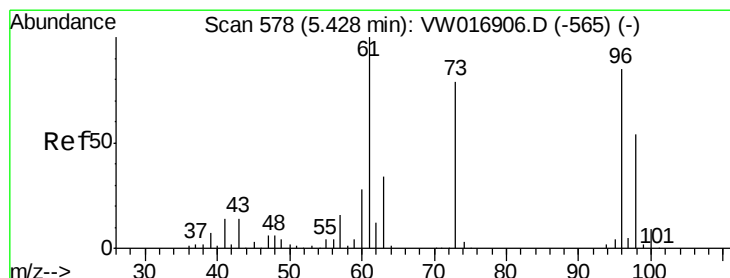
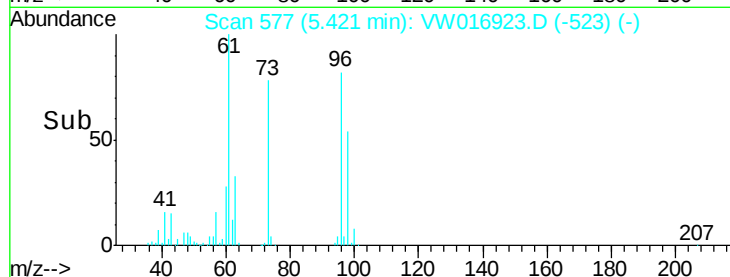
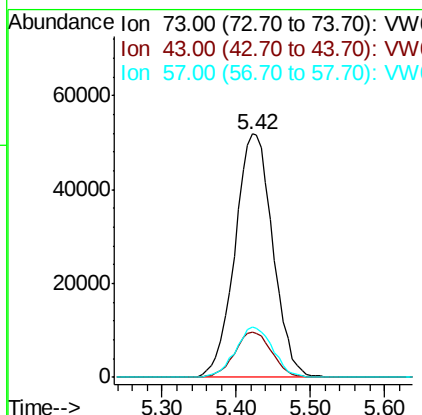
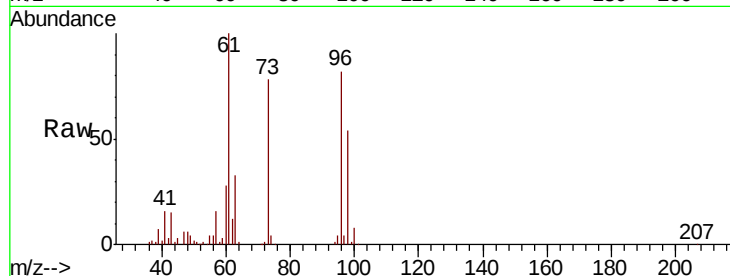




#17  
Methvl tert-butvl Ether  
Concen: 25.090 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

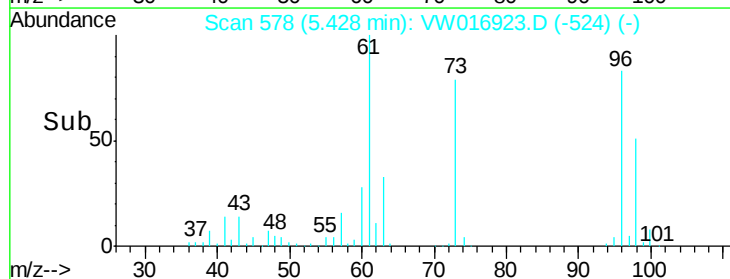
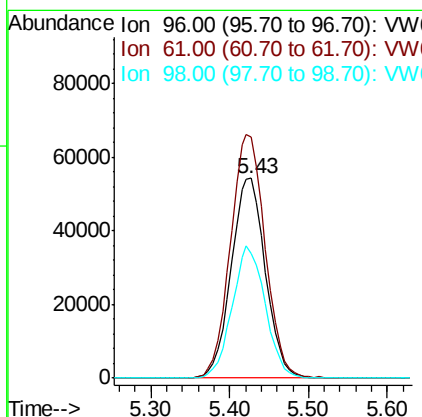
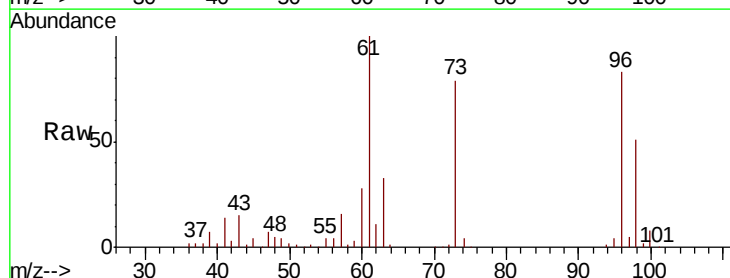
Instrument :  
MSVOA\_W  
ClientSampleId :

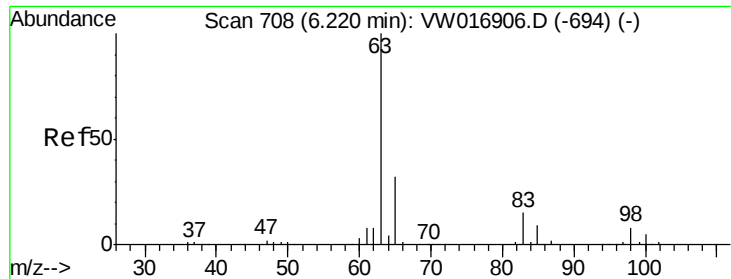
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 18.6  | 15.0  | 22.4  |
| 57      | 20.4  | 16.4  | 24.6  |



#18  
trans-1,2-Dichloroethene  
Concen: 23.884 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 120.6 | 82.5  | 153.3 |
| 98      | 62.1  | 43.3  | 80.5  |

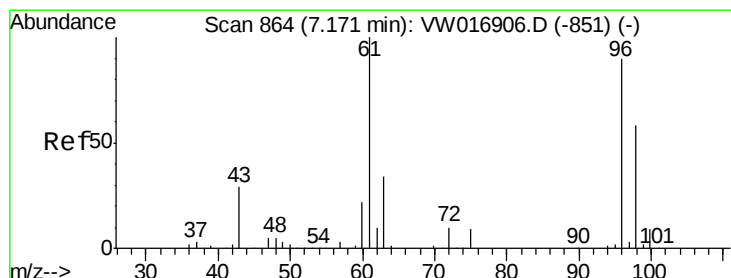
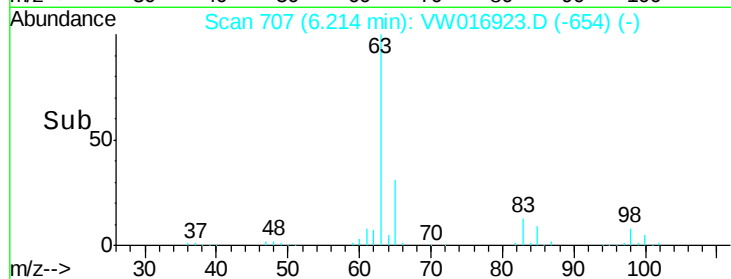
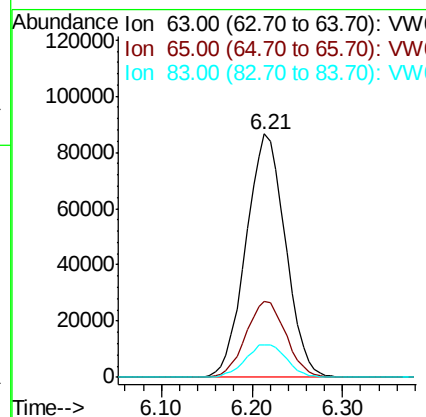
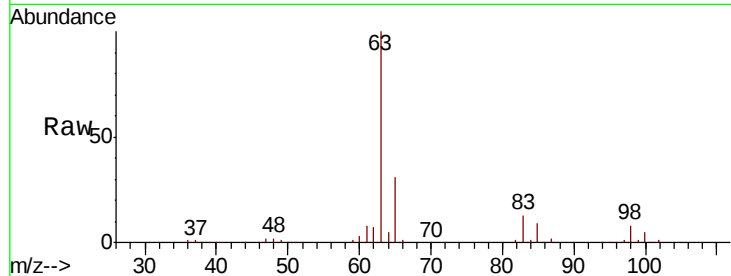




#19  
 1,1-Dichloroethane  
 Concen: 24.661 ug/L  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.01 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

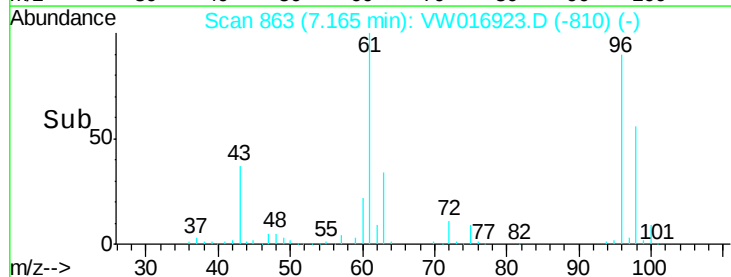
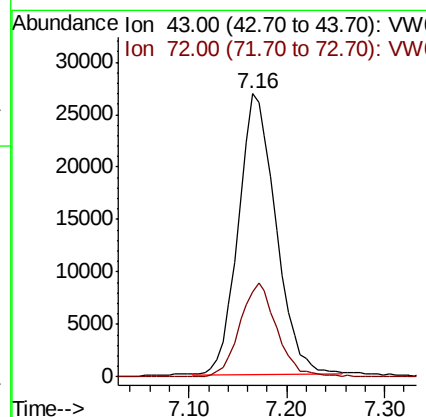
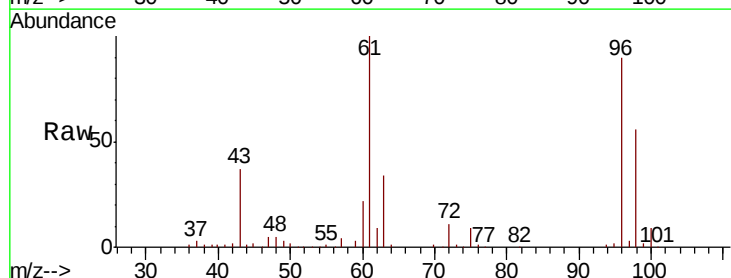
Instrument :  
 MSVOA\_W  
 ClientSampled :

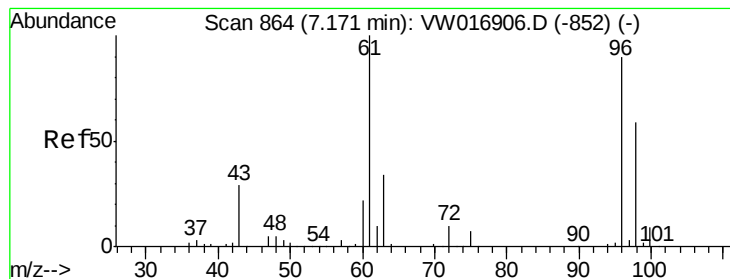
Tot Ion: 63 Resp: 260162  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 22.7 42.1  
 83 13.4 9.9 18.5



#21  
 2-Butanone  
 Concen: 49.811 ug/L  
 RT: 7.16 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Tgt Ion: 43 Resp: 71713  
 Ion Ratio Lower Upper  
 43 100  
 72 32.8 16.2 48.5



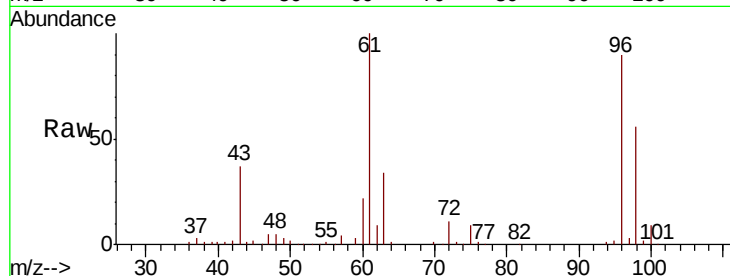


#22

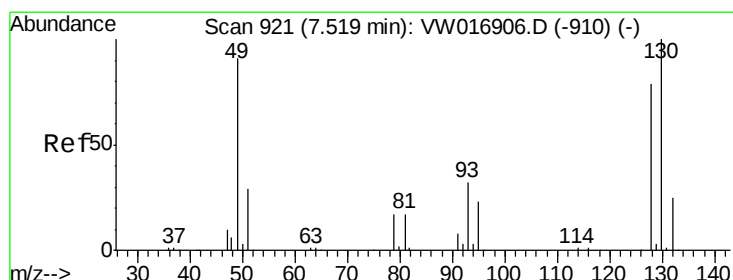
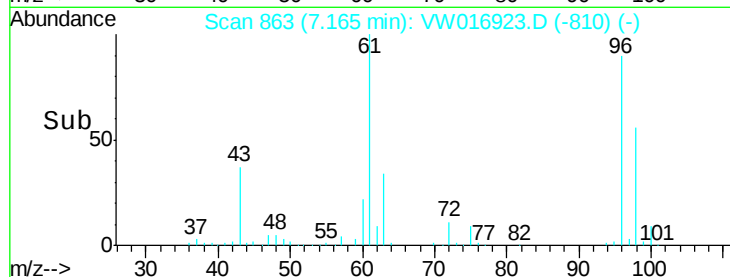
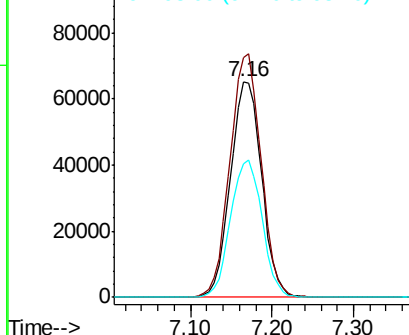
cis-1,2-Dichloroethene  
Concen: 24.678 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 96 Resp: 172497  
Ion Ratio Lower Upper  
96 100  
61 110.8 76.0 141.2  
98 62.0 42.7 79.3



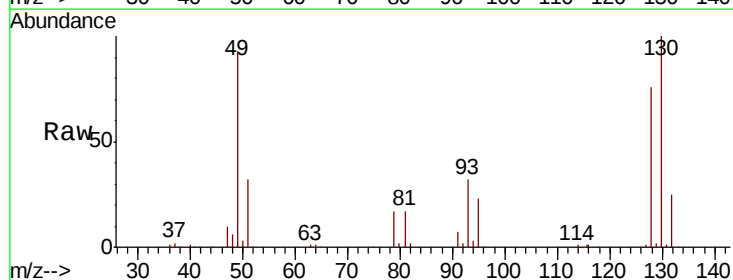
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



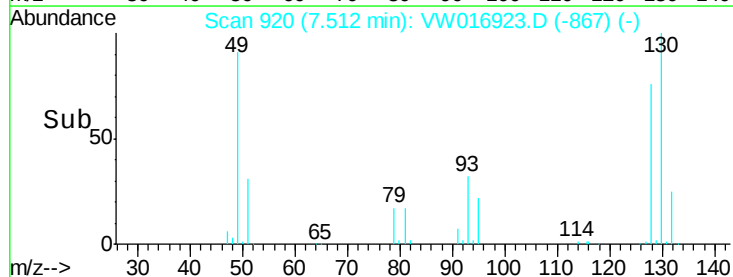
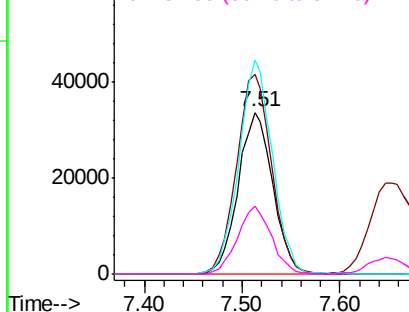
#23

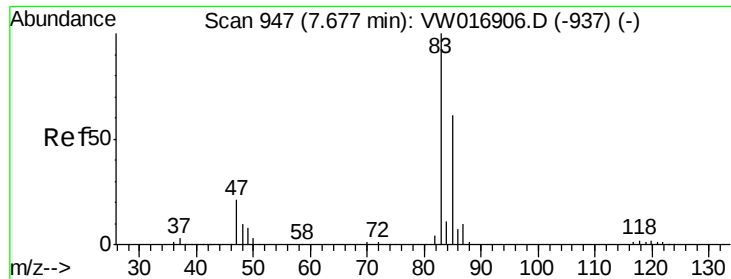
Bromochloromethane  
Concen: 25.080 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion: 128 Resp: 82324  
Ion Ratio Lower Upper  
128 100  
49 123.5 88.5 164.3  
130 132.1 92.9 172.5  
51 41.8 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

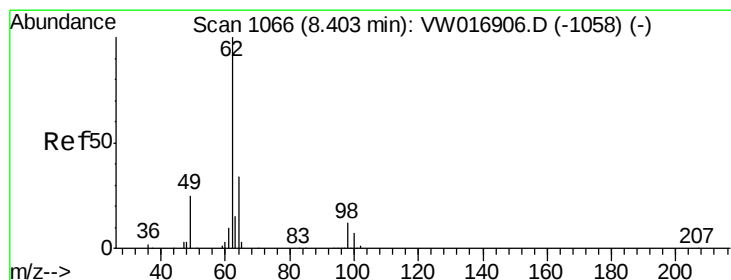
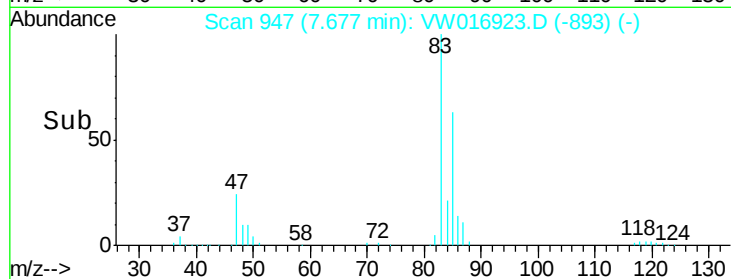
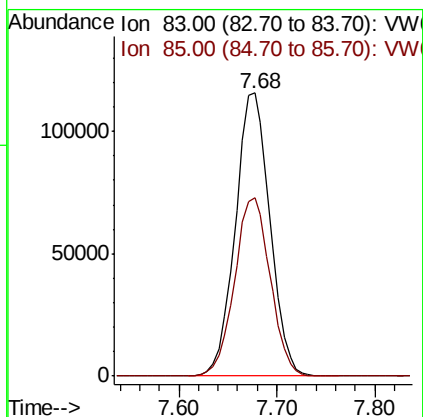
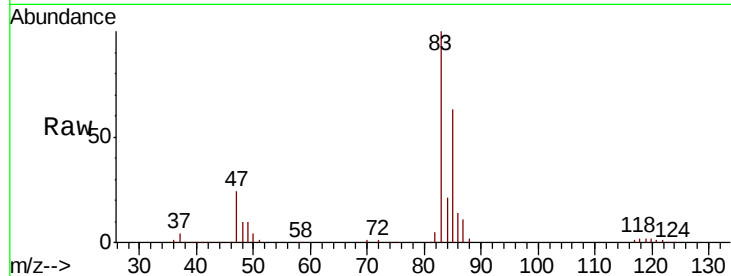




#25  
Chloroform  
Concen: 24.882 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

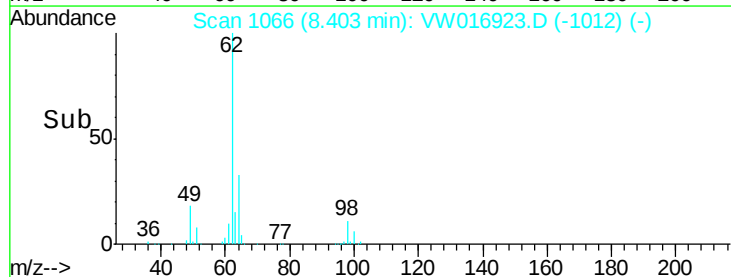
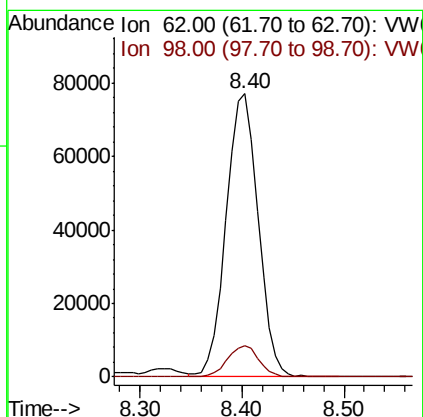
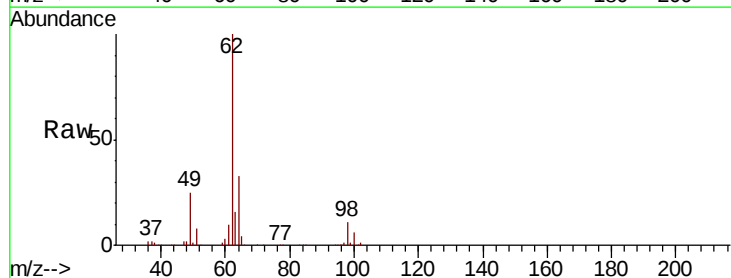
Instrument :  
MSVOA\_W  
ClientSampleId :

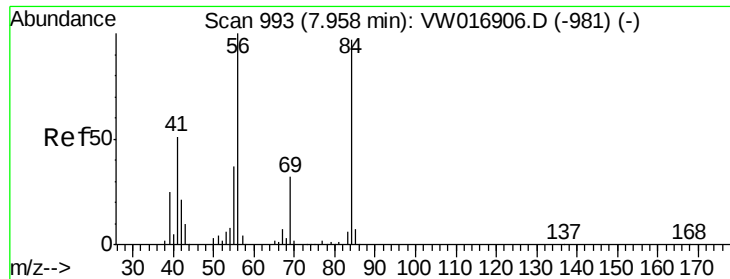
Tot Ion: 83 Resp: 283469  
Ion Ratio Lower Upper  
83 100  
85 65.1 46.9 87.1



#27  
1,2-Dichloroethane  
Concen: 24.631 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion: 62 Resp: 167862  
Ion Ratio Lower Upper  
62 100  
98 11.1 8.6 12.8

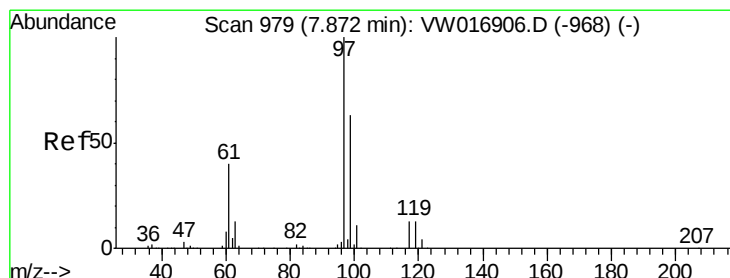
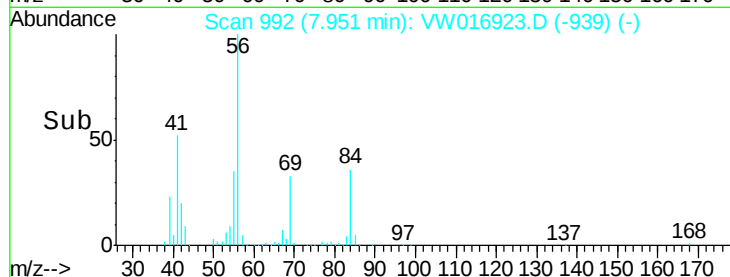
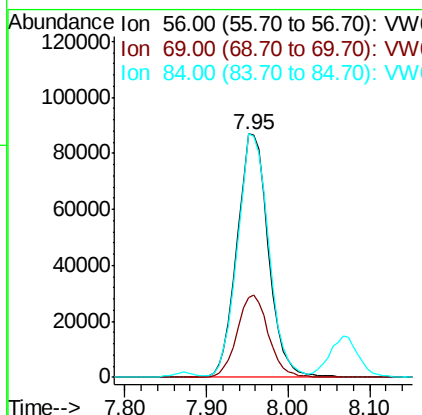
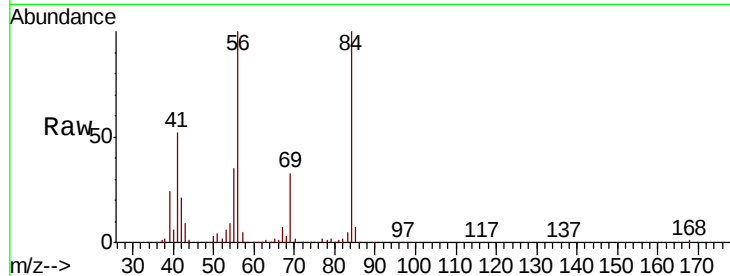




#30  
Cyclohexane  
Concen: 23.904 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

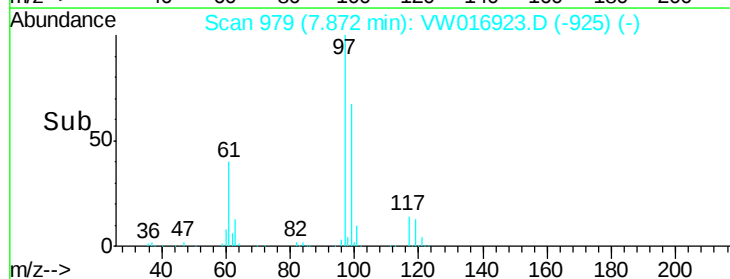
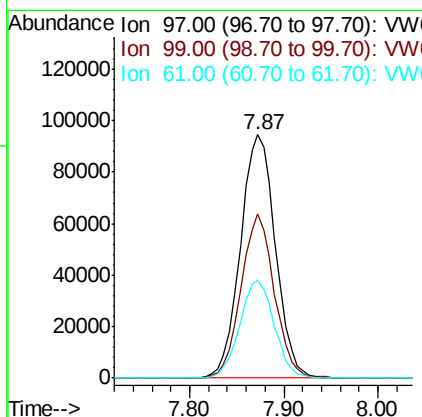
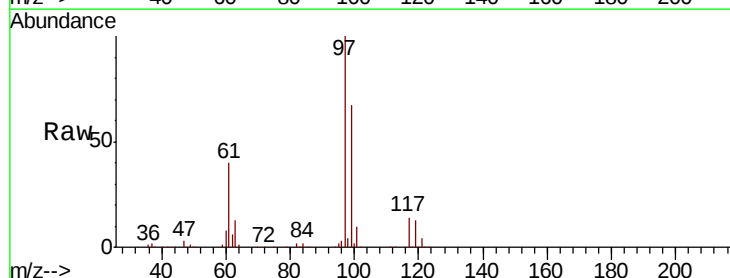
Instrument :  
MSVOA\_W  
ClientSampleId :

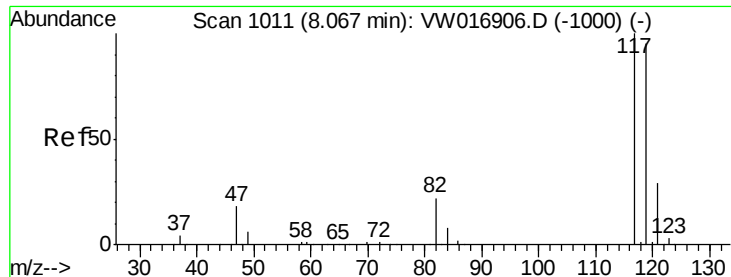
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 33.6  | 26.1  | 39.1  |
| 84      | 99.7  | 79.3  | 118.9 |



#31  
1,1,1-Trichloroethane  
Concen: 24.657 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.5  | 51.5  | 77.3  |
| 61      | 39.8  | 32.5  | 48.7  |





#32

Carbon tetrachloride

Concen: 23.944 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

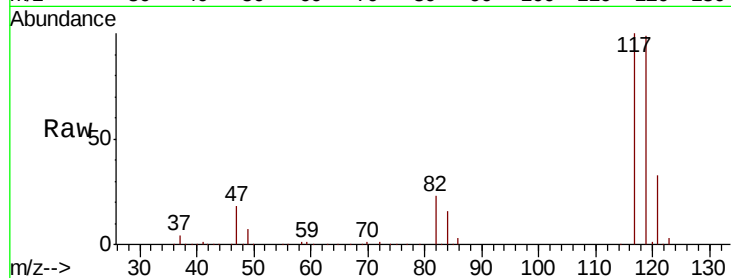
ClientSampleId :

Tot Ion:117 Resp: 232479

Ion Ratio Lower Upper

117 100

119 96.2 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

100000

80000

60000

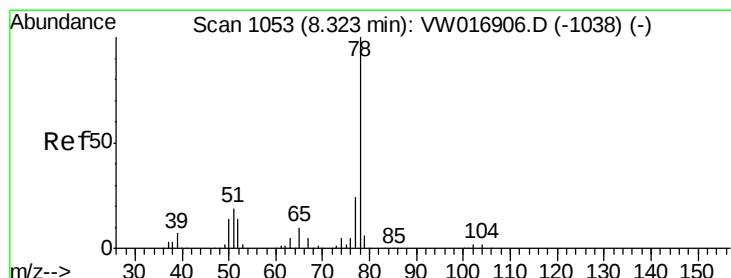
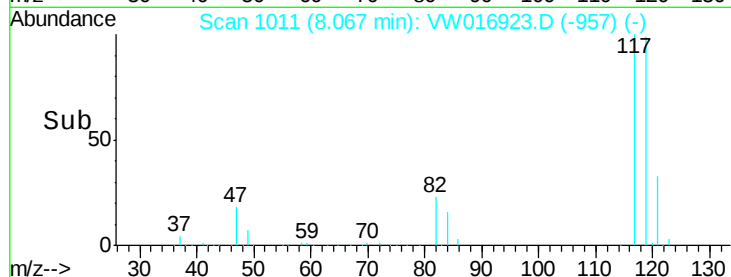
40000

20000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 24.095 ug/L

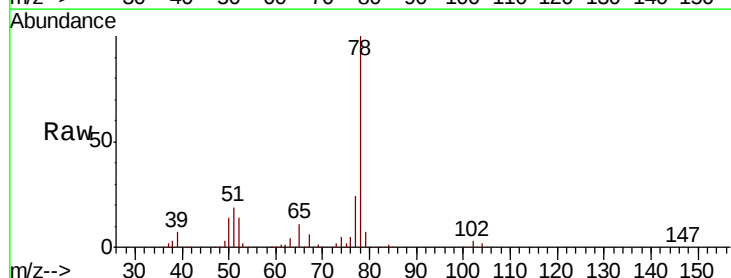
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Tgt Ion: 78 Resp: 605386



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

300000

250000

200000

150000

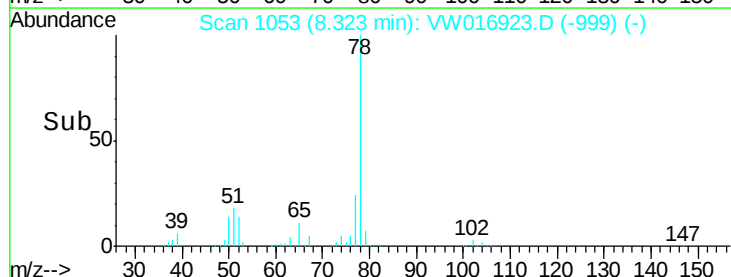
100000

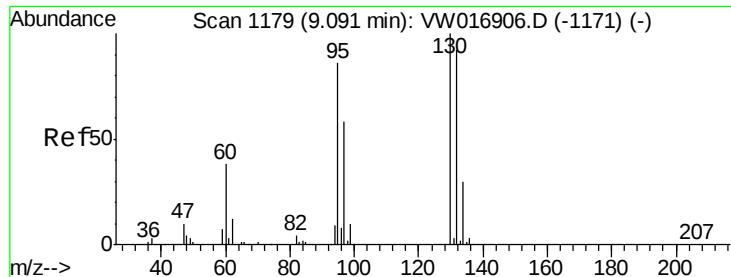
50000

0

8.20 8.30 8.40

Time-->

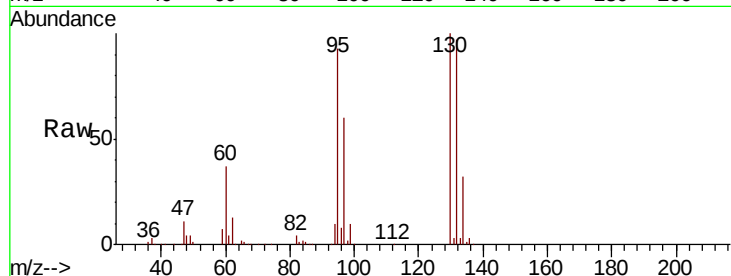




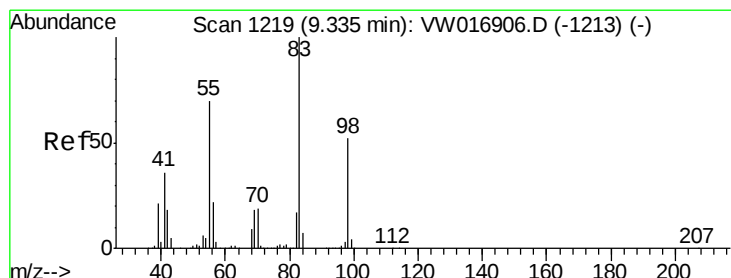
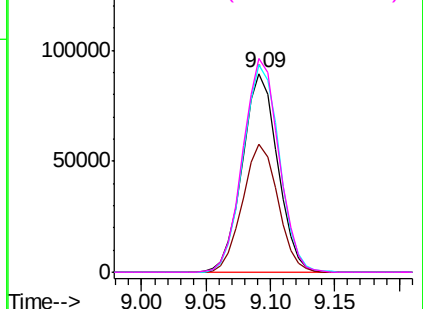
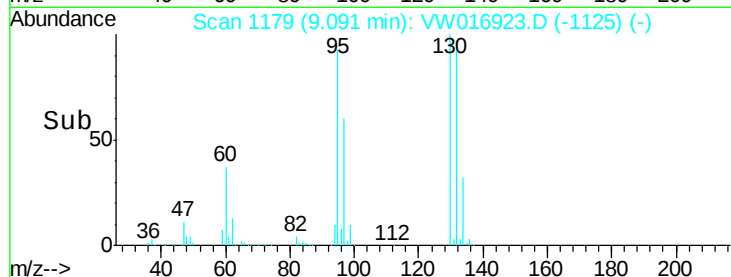
#35  
 Trichloroethene  
 Concen: 23.840 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 95 Resp: 169429  
 Ion Ratio Lower Upper  
 95 100  
 97 65.0 44.7 83.1  
 132 107.3 73.8 137.2  
 130 109.5 77.1 143.3

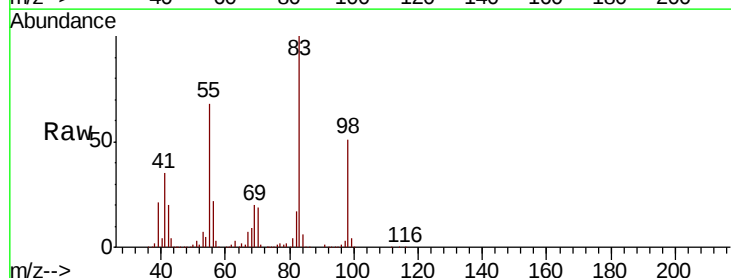


Abundance Ion 95.00 (94.70 to 95.70): VW  
 150000 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

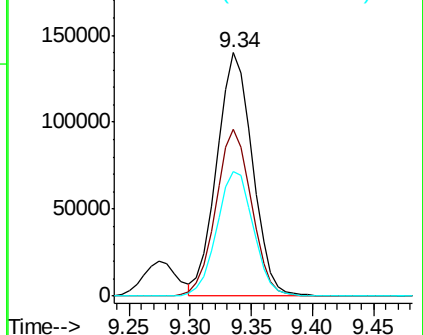
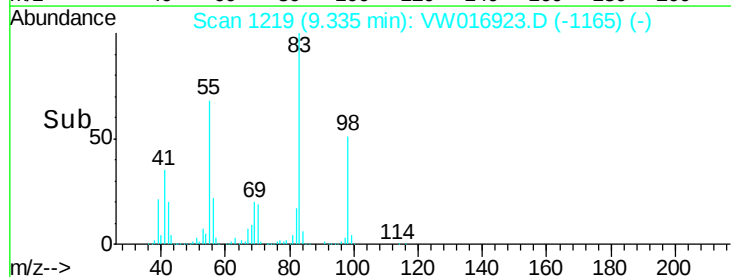


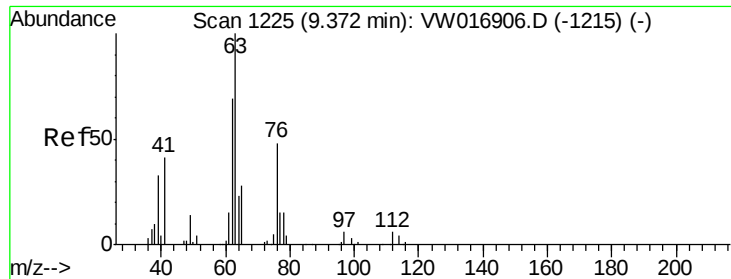
#36  
 Methylcyclohexane  
 Concen: 23.755 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Tgt Ion: 83 Resp: 283870  
 Ion Ratio Lower Upper  
 83 100  
 55 68.6 54.2 81.4  
 98 52.5 41.4 62.2



Abundance Ion 83.00 (82.70 to 83.70): VW  
 150000 Ion 55.00 (54.70 to 55.70): VW  
 Ion 98.00 (97.70 to 98.70): VW

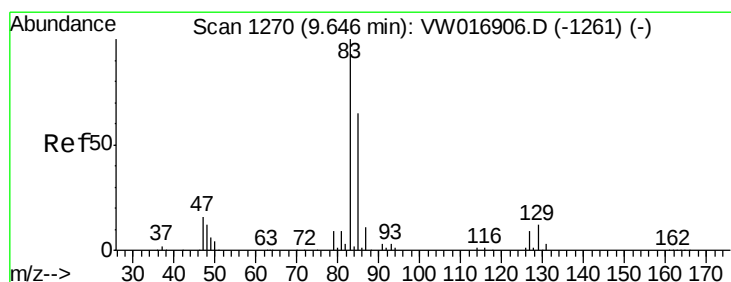
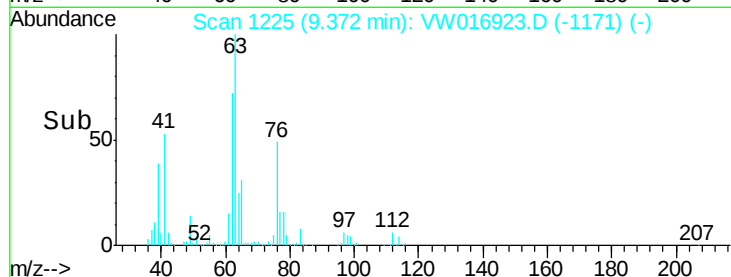
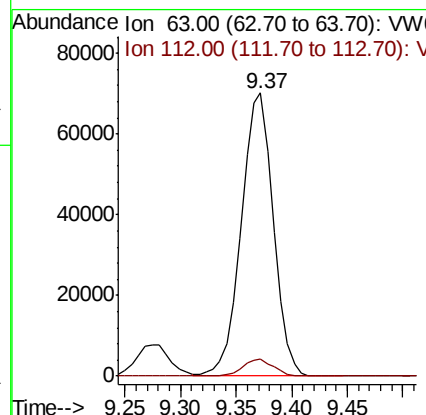
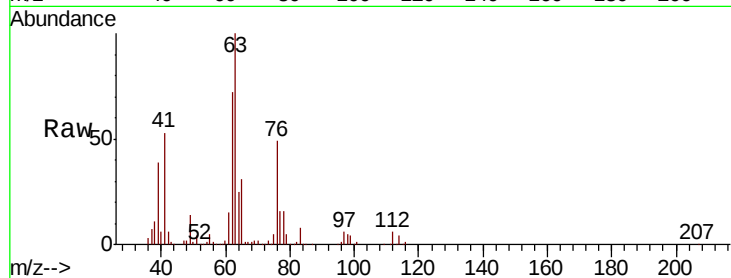




#40  
 1,2-Dichloropropane  
 Concen: 24.640 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

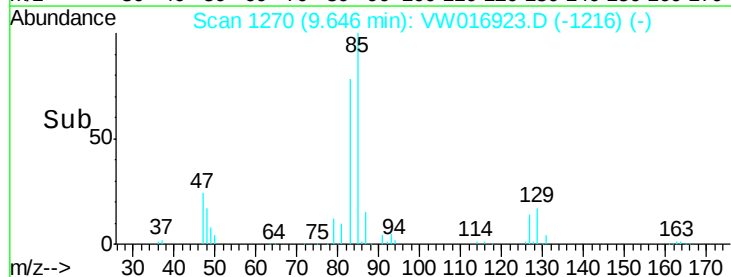
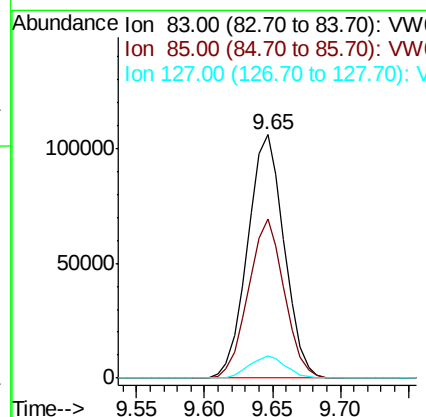
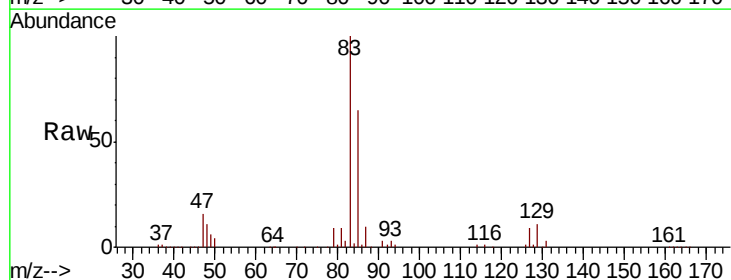
Instrument :  
 MSVOA\_W  
 ClientSampleId :

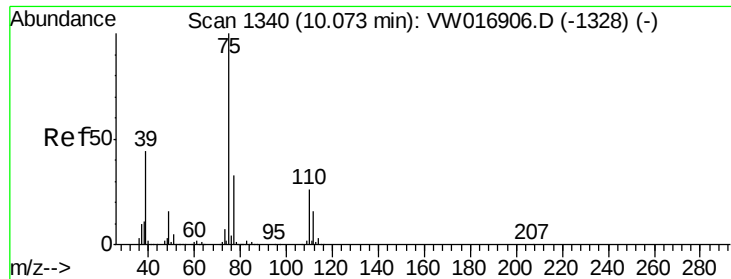
Tot Ion: 63 Resp: 139989  
 Ion Ratio Lower Upper  
 63 100  
 112 5.8 4.5 6.7



#41  
 Bromodichloromethane  
 Concen: 24.965 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Tgt Ion: 83 Resp: 199256  
 Ion Ratio Lower Upper  
 83 100  
 85 65.2 46.2 85.8  
 127 9.2 7.5 11.3

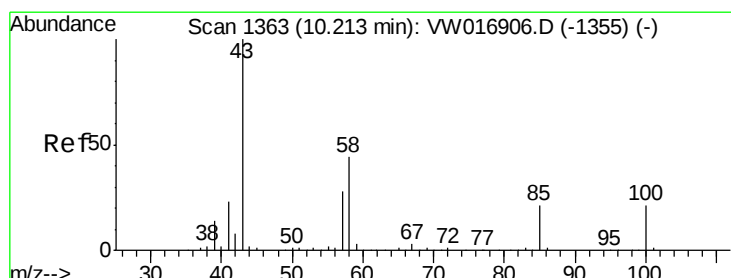
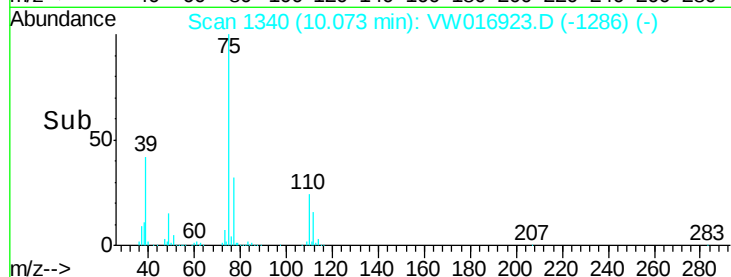
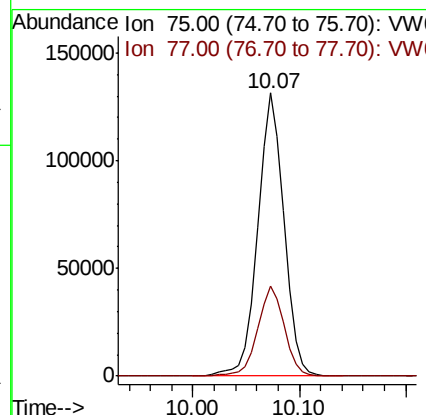
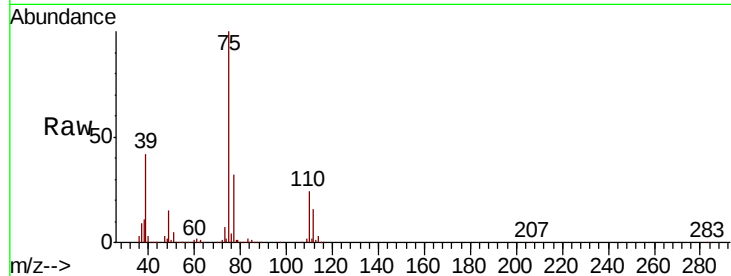




#42  
 cis-1,3-Dichloropropene  
 Concen: 25.151 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

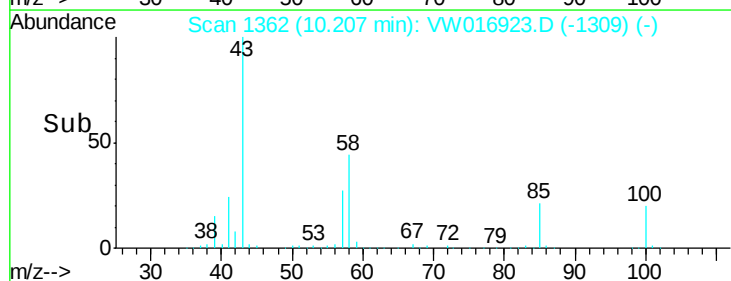
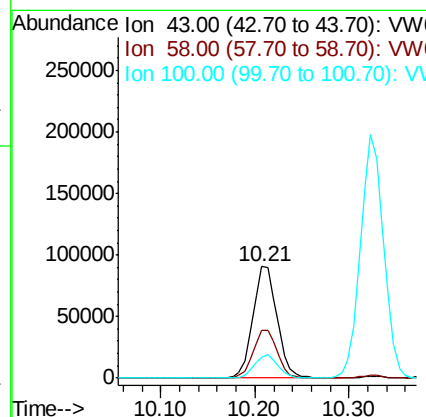
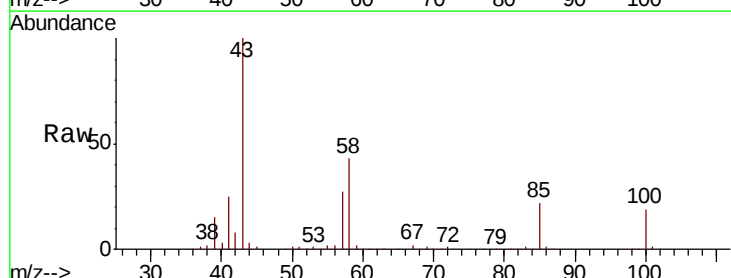
Instrument :  
 MSVOA\_W  
 ClientSampled :

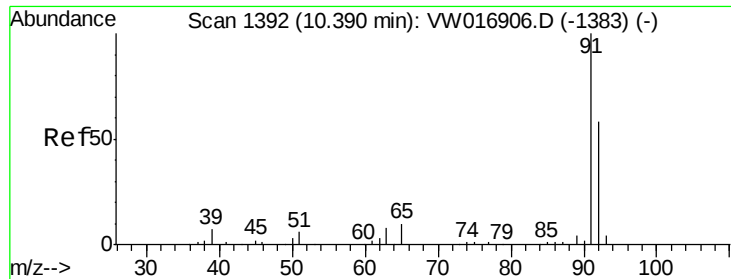
Tot Ion: 75 Resp: 227826  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 22.1 41.1



#43  
 4-Methyl-2-pentanone  
 Concen: 56.909 ug/L  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.01 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Tgt Ion: 43 Resp: 162775  
 Ion Ratio Lower Upper  
 43 100  
 58 42.9 34.7 52.1  
 100 20.3 16.9 25.3





#44

Toluene

Concen: 24.225 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

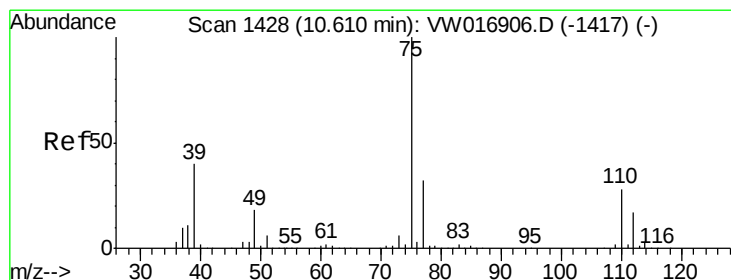
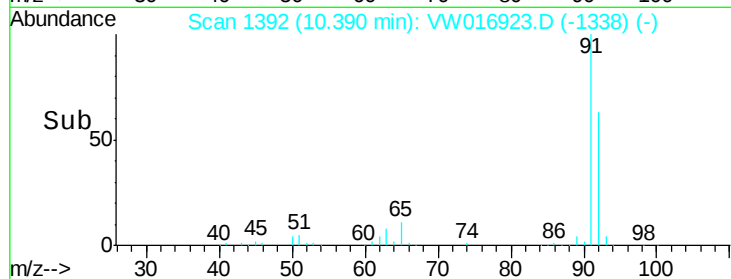
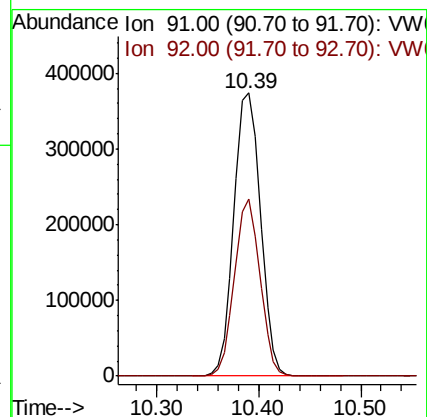
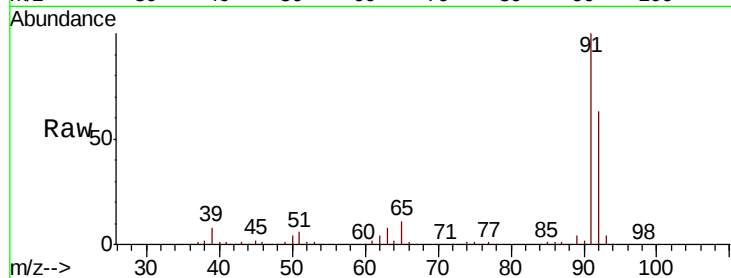
ClientSampleId :

Tot Ion: 91 Resp: 675227

Ion Ratio Lower Upper

91 100

92 62.8 39.4 73.2



#45

trans-1,3-Dichloropropene

Concen: 26.000 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016923.D

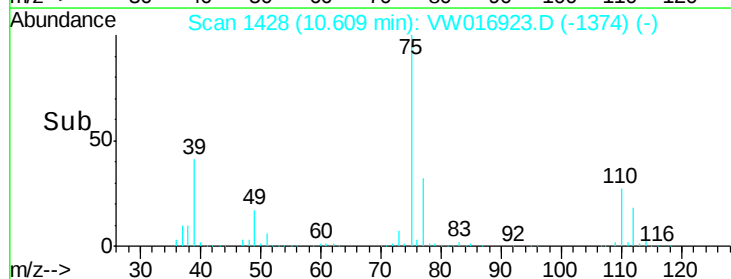
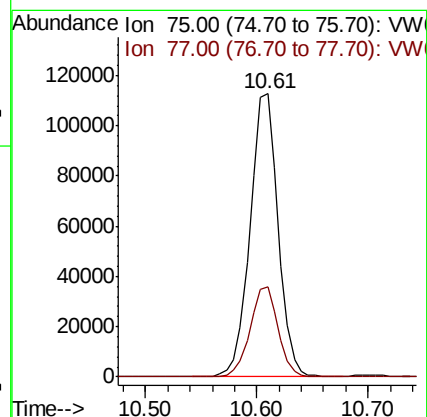
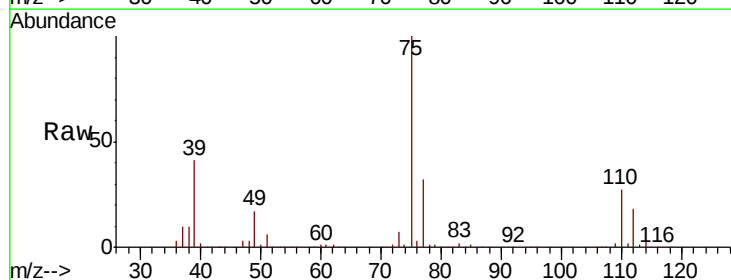
Acq: 16 Oct 2020 12:01

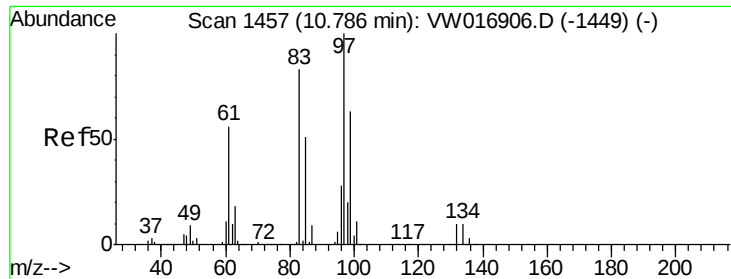
Tgt Ion: 75 Resp: 198183

Ion Ratio Lower Upper

75 100

77 32.0 22.2 41.2

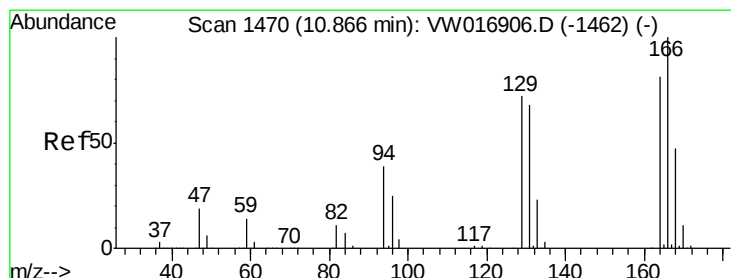
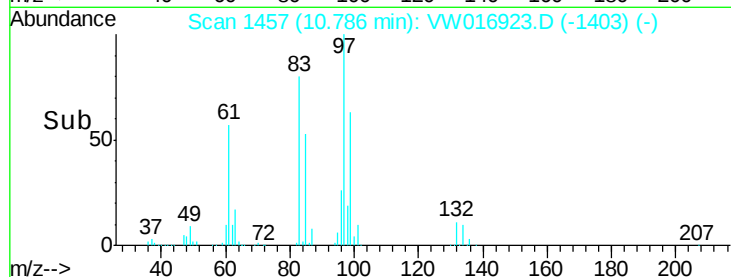
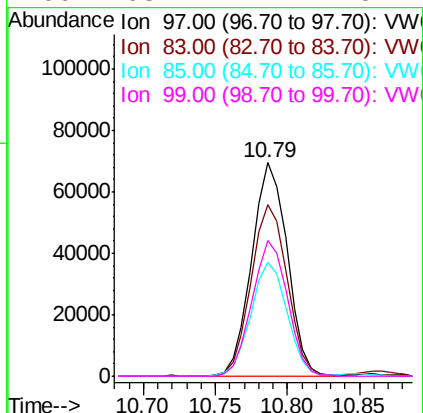
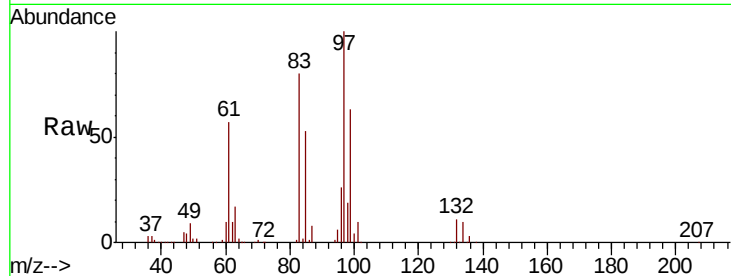




#46  
 1,1,2-Trichloroethane  
 Concen: 25.694 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

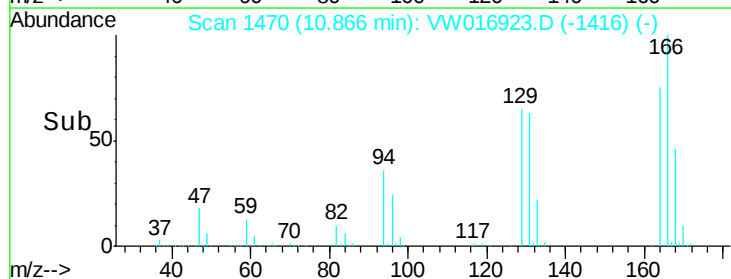
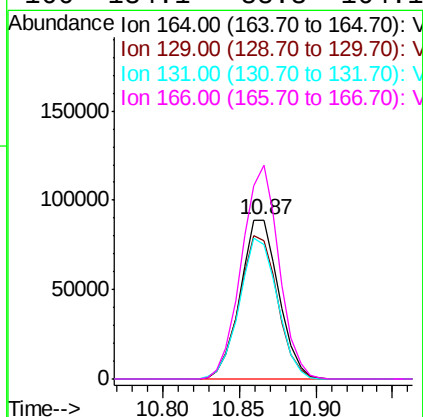
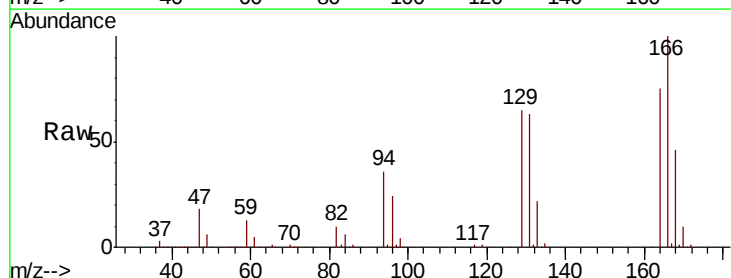
Instrument :  
 MSVOA\_W  
 ClientSampleId :

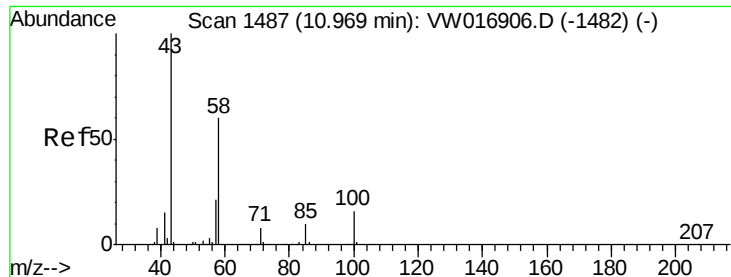
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 118668 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 80.2  | 56.8  | 105.4  |
| 85       | 53.5  | 37.0  | 68.6   |
| 99       | 63.4  | 44.2  | 82.2   |



#47  
 Tetrachloroethene  
 Concen: 23.698 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 156147 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 86.9  | 61.7  | 114.7  |
| 131      | 84.4  | 59.7  | 110.9  |
| 166      | 134.1 | 88.3  | 164.1  |

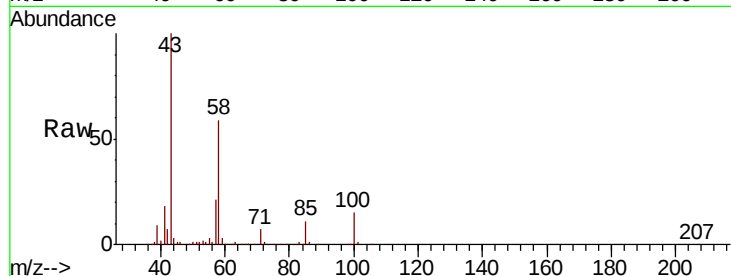




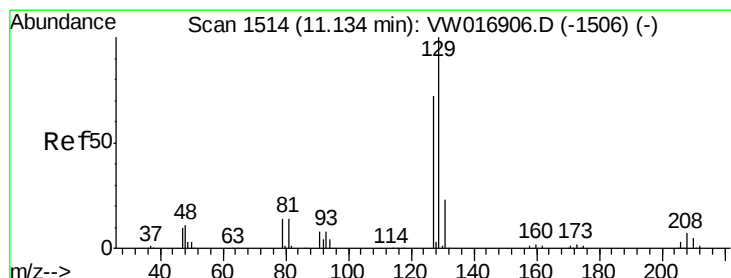
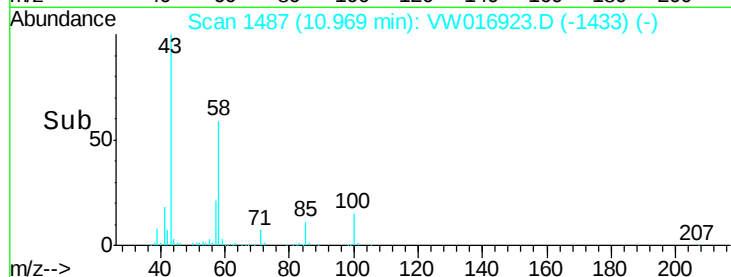
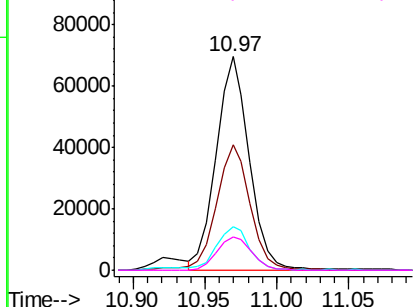
#49  
2-Hexanone  
Concen: 58.887 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 111174  
Ion Ratio Lower Upper  
43 100  
58 60.0 47.1 70.7  
57 20.7 16.2 24.4  
100 16.3 13.3 19.9

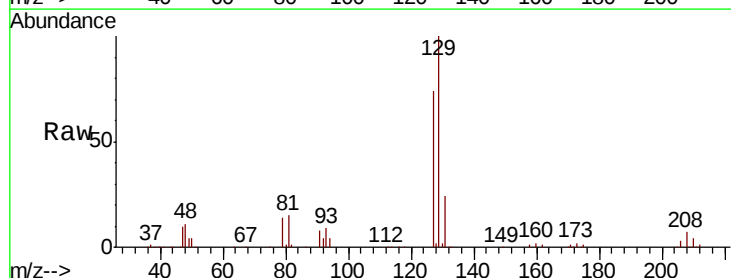


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW  
Ion 57.00 (56.70 to 57.70): VW  
Ion 100.00 (99.70 to 100.70): VW

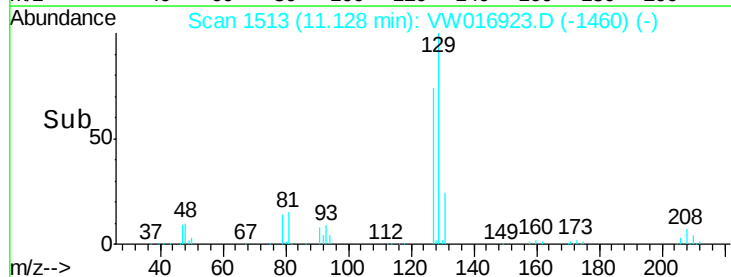
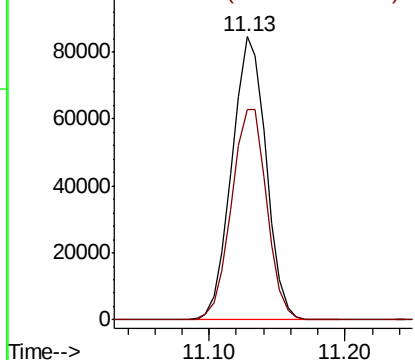


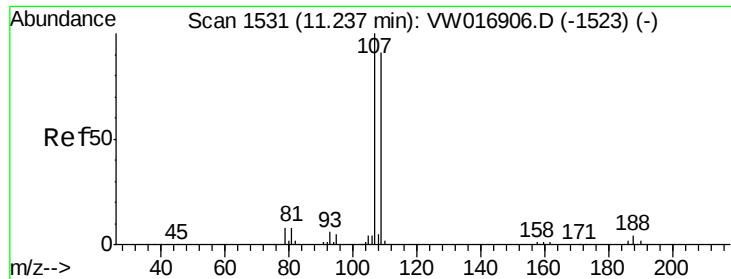
#50  
Dibromochloromethane  
Concen: 25.820 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion: 129 Resp: 148245  
Ion Ratio Lower Upper  
129 100  
127 74.2 54.0 100.4



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 25.667 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

ClientSampleId :

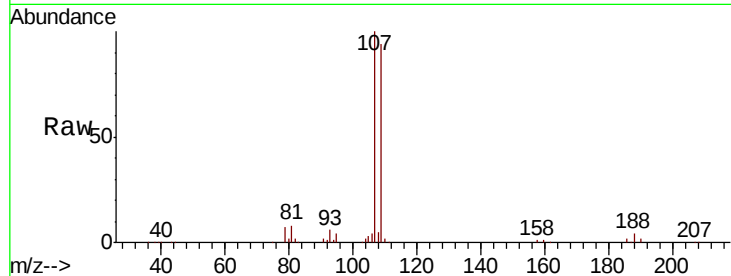
Tot Ion:107 Resp: 116491

Ion Ratio Lower Upper

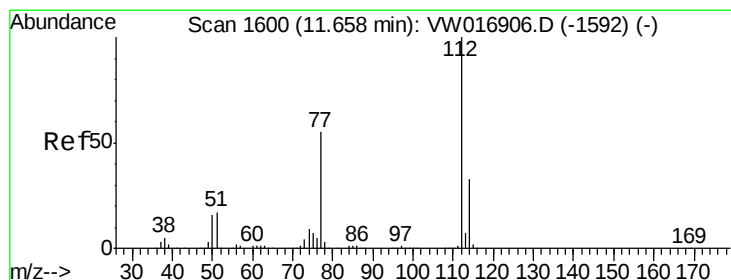
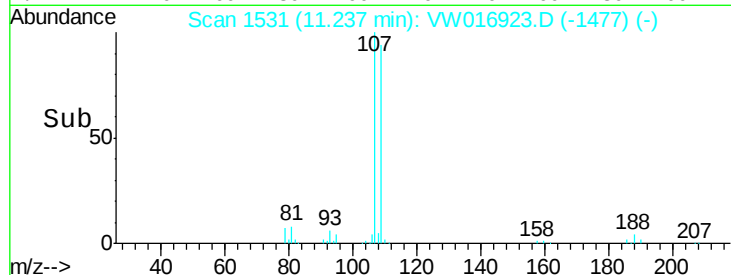
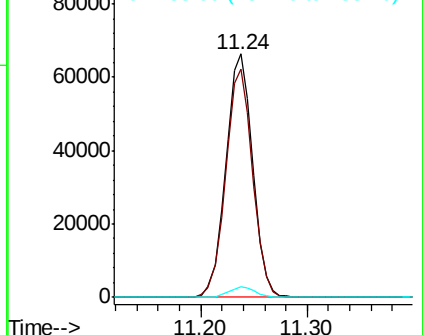
107 100

109 93.8 68.4 127.0

188 4.2 3.4 5.0



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.121 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

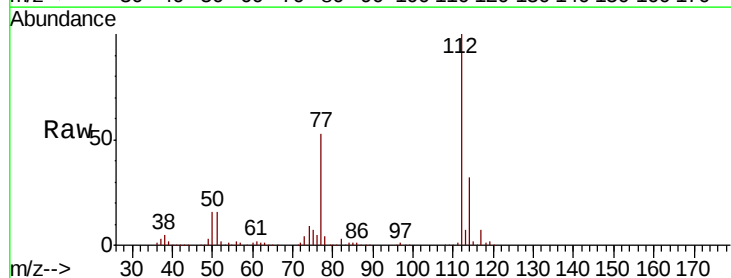
Tgt Ion:112 Resp: 451192

Ion Ratio Lower Upper

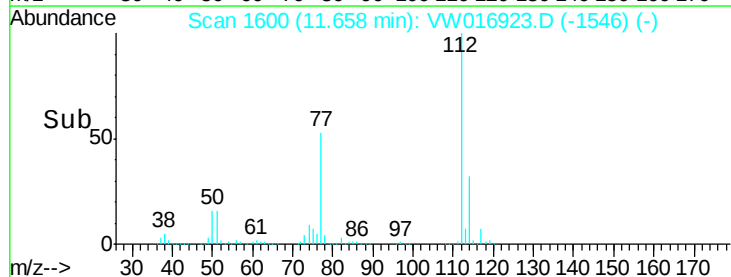
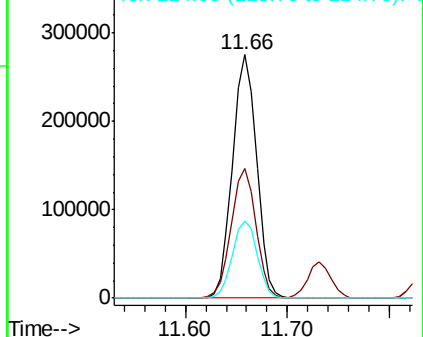
112 100

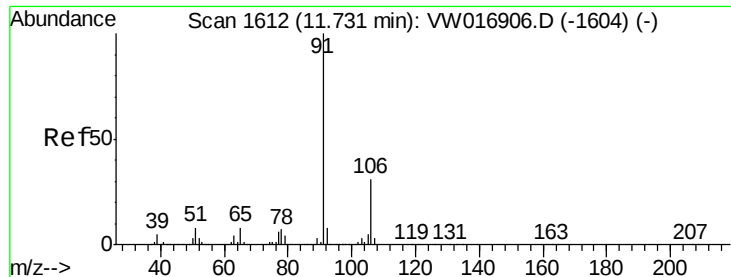
77 53.3 44.0 66.0

114 31.7 22.3 41.3



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 114.00 (113.70 to 114.70): V

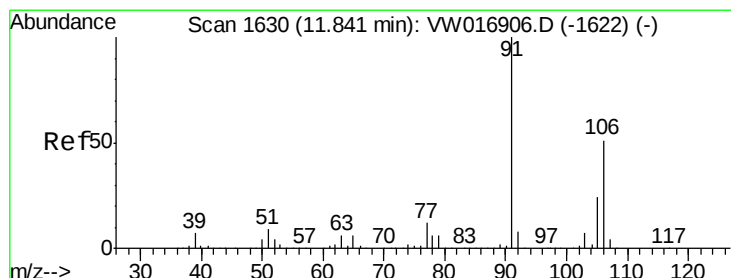
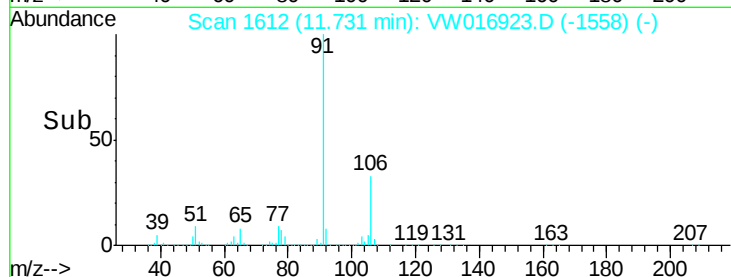
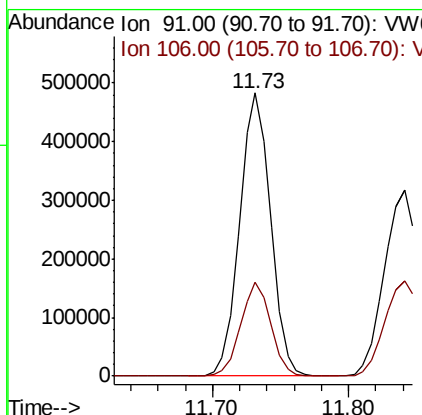
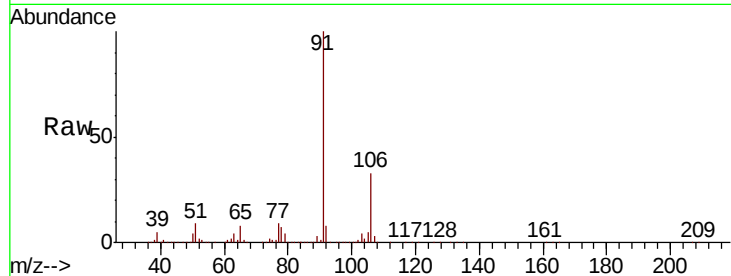




#53  
Ethylbenzene  
Concen: 24.465 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

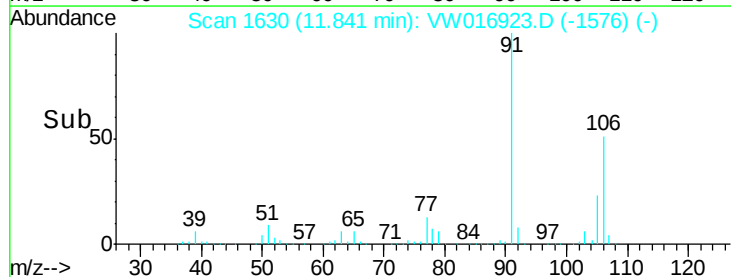
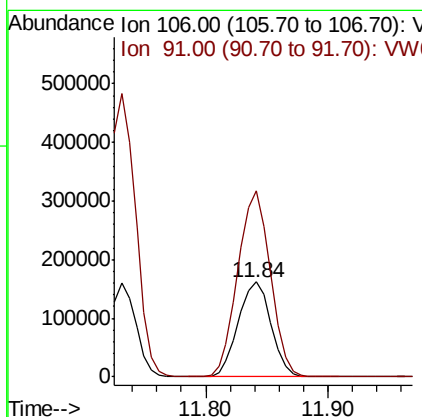
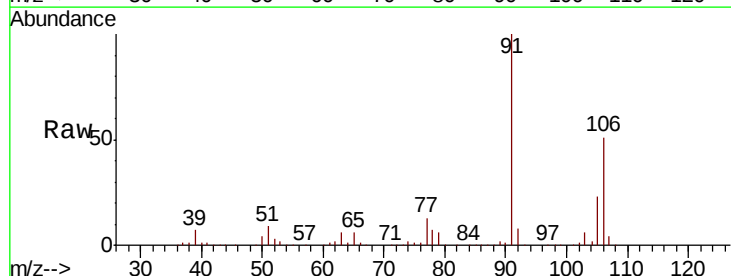
Instrument :  
MSVOA\_W  
ClientSampled :

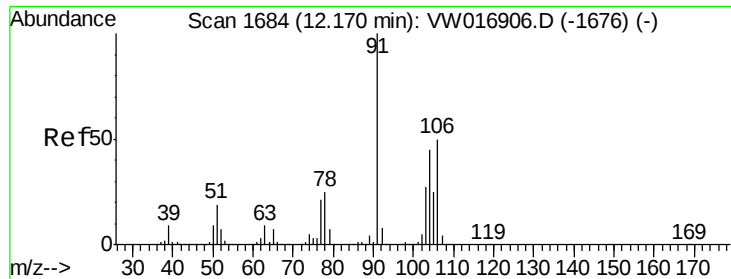
Tot Ion: 91 Resp: 764949  
Ion Ratio Lower Upper  
91 100  
106 33.1 22.8 42.4



#54  
m,p-Xylene  
Concen: 24.842 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion: 106 Resp: 302091  
Ion Ratio Lower Upper  
106 100  
91 196.1 135.6 251.8

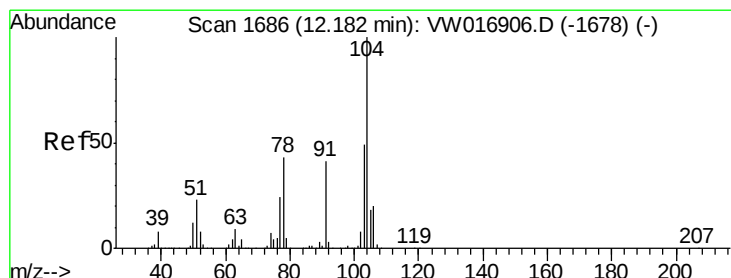
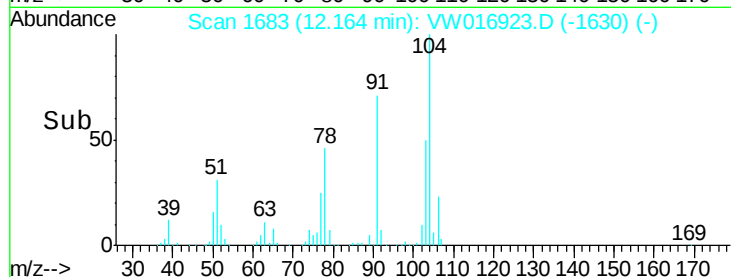
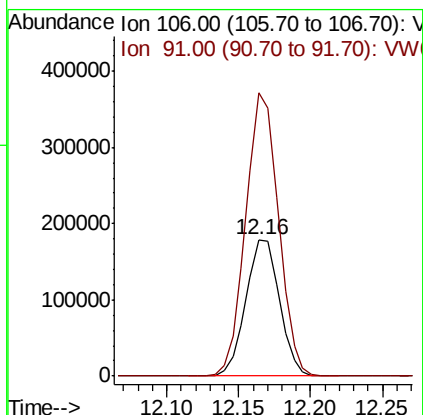
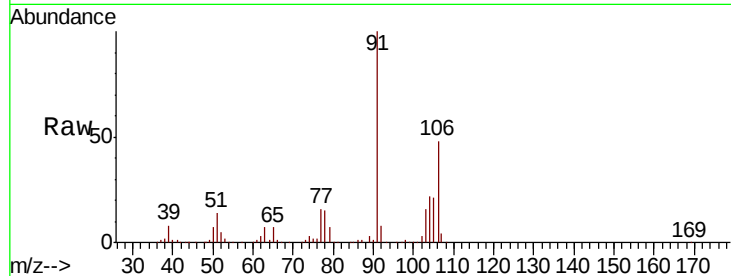




#55  
o-xylene  
Concen: 24.924 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

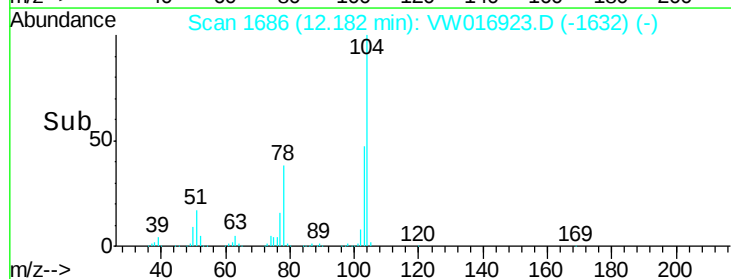
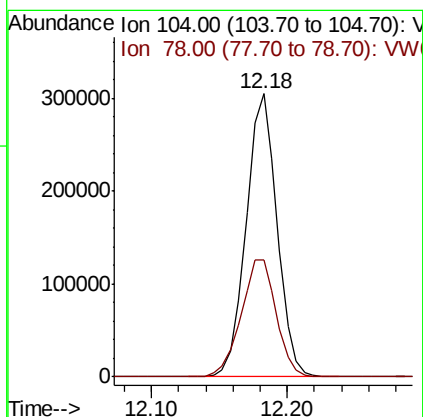
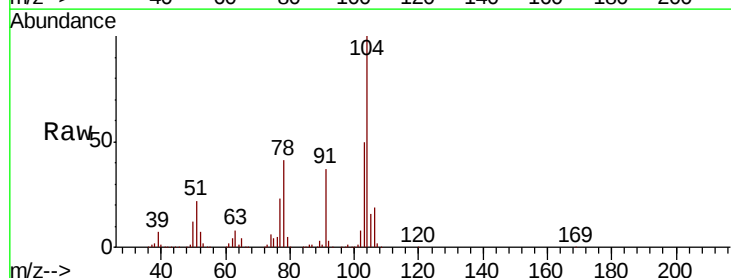
Instrument :  
MSVOA\_W  
ClientSampled :

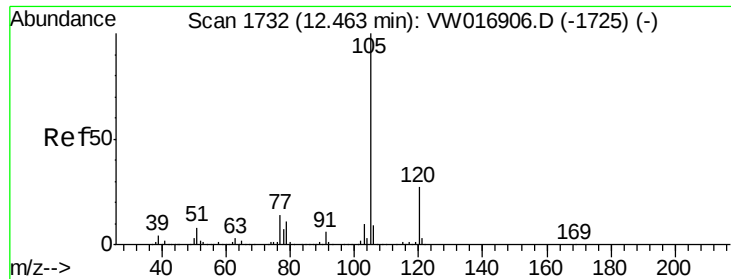
Tot Ion:106 Resp: 289591  
Ion Ratio Lower Upper  
106 100  
91 207.3 142.6 264.8



#56  
Styrene  
Concen: 25.278 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW016923.D  
Acq: 16 Oct 2020 12:01

Tgt Ion:104 Resp: 484657  
Ion Ratio Lower Upper  
104 100  
78 41.4 30.7 57.1





#57

Isopropylbenzene

Concen: 24.890 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

ClientSampleId :

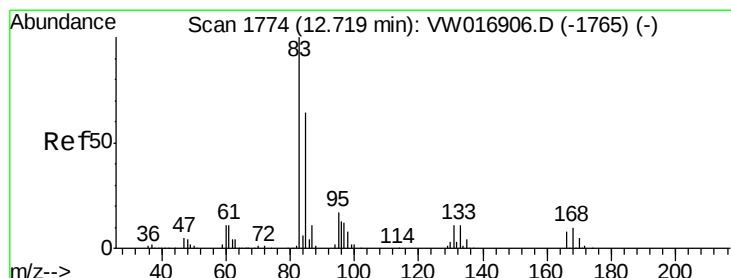
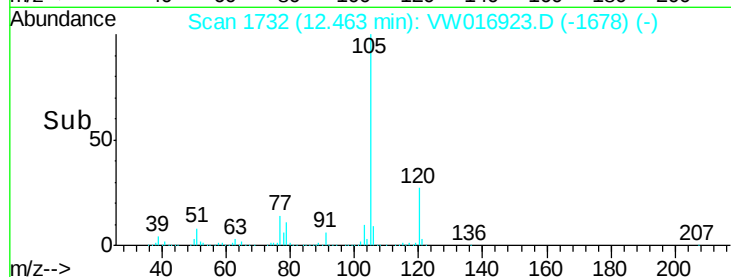
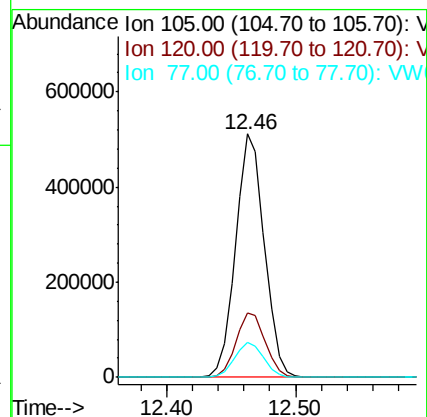
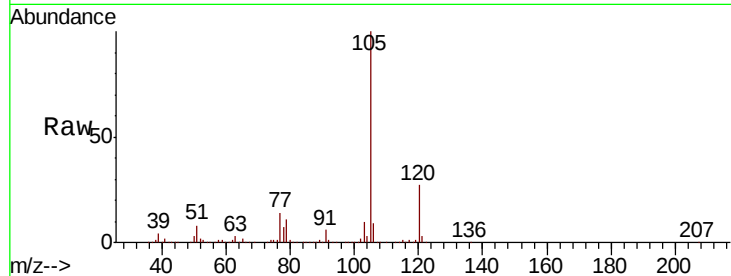
Tot Ion:105 Resp: 791905

Ion Ratio Lower Upper

105 100

120 27.0 21.5 32.3

77 14.5 11.4 17.2



#58

1,1,2,2-Tetrachloroethane

Concen: 27.350 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

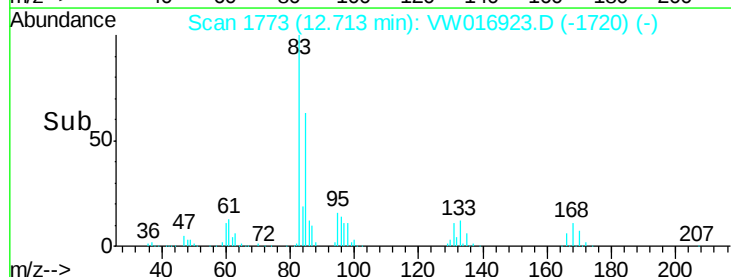
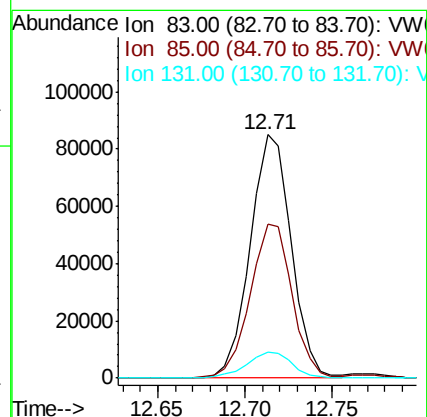
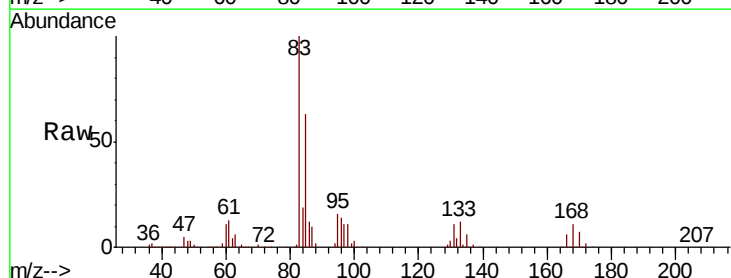
Tgt Ion: 83 Resp: 139597

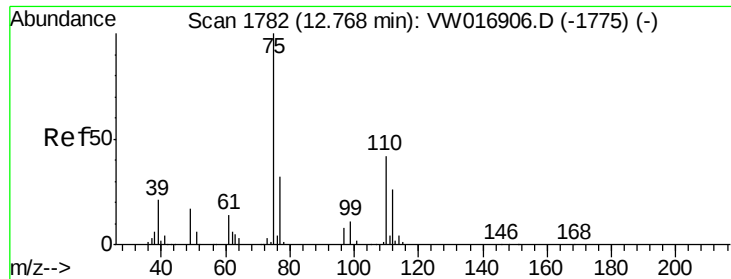
Ion Ratio Lower Upper

83 100

85 63.1 43.3 80.5

131 10.7 9.0 13.4





#59

1,2,3-Trichloropropane

Concen: 26.461 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

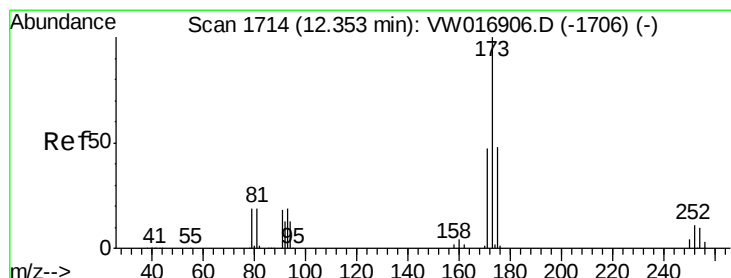
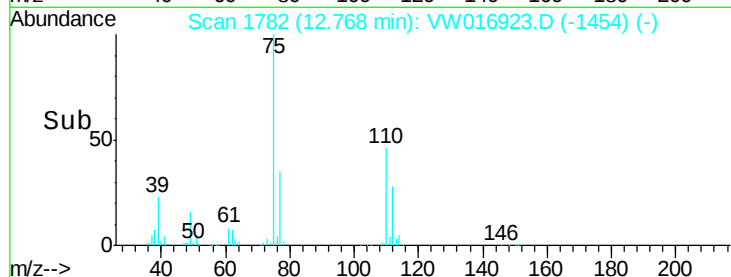
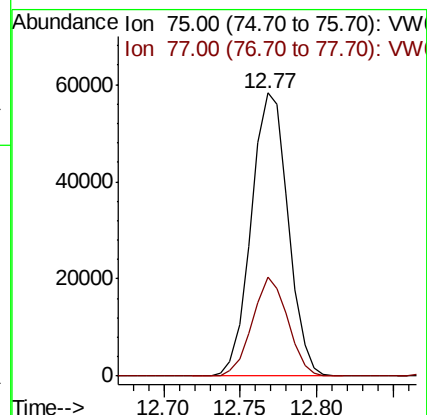
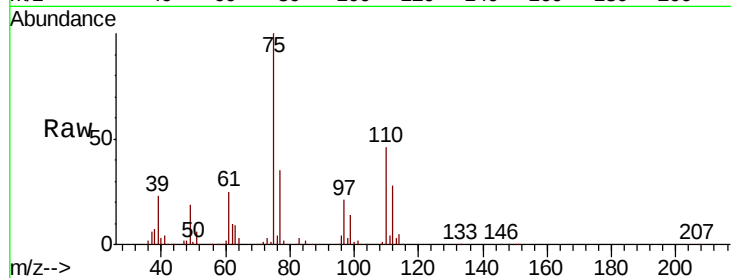
ClientSampleId :

Tot Ion: 75 Resp: 97841

Ion Ratio Lower Upper

75 100

77 33.7 26.2 39.2



#62

Bromoform

Concen: 25.225 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

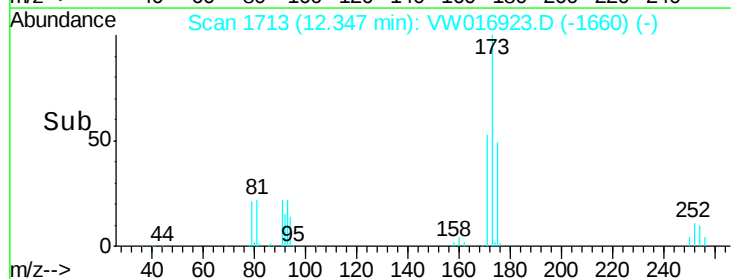
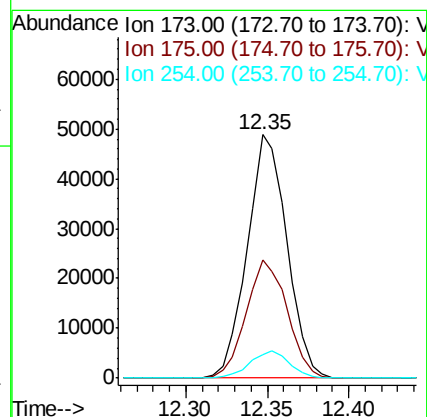
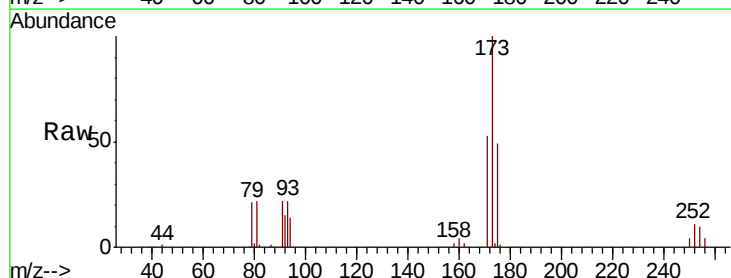
Tgt Ion: 173 Resp: 82769

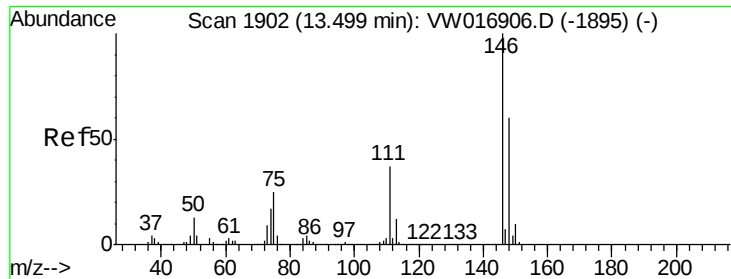
Ion Ratio Lower Upper

173 100

175 50.1 39.9 59.9

254 11.1 8.7 13.1

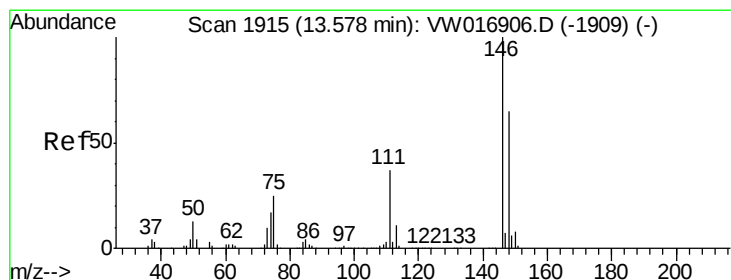
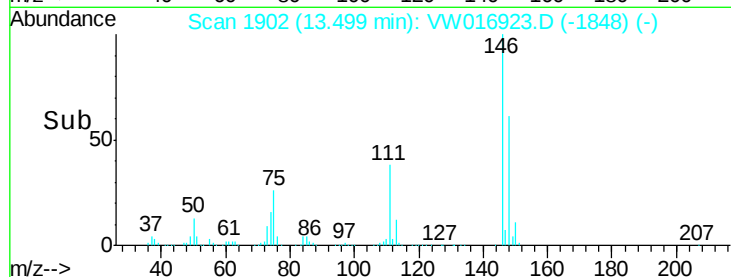
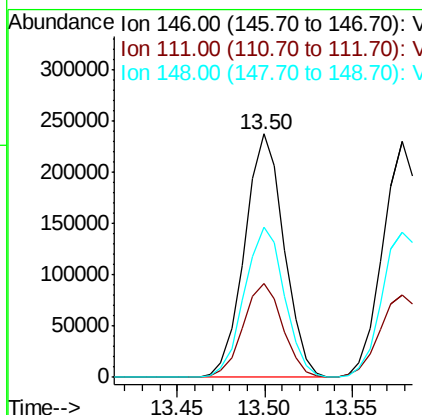
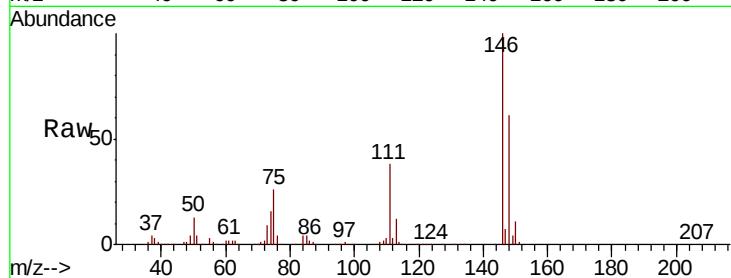




#63  
 1,3-Dichlorobenzene  
 Concen: 25.076 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

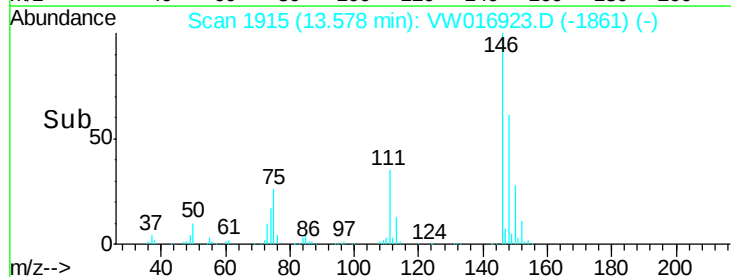
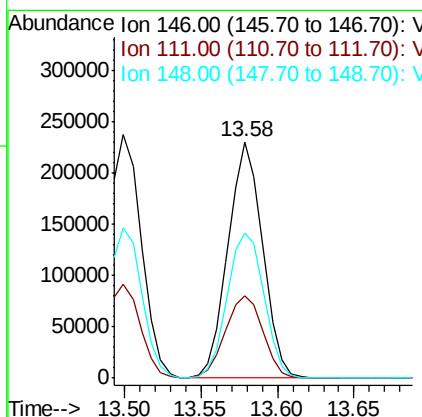
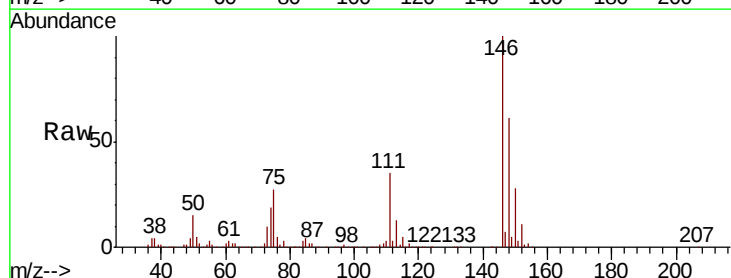
Instrument :  
 MSVOA\_W  
 ClientSampleId :

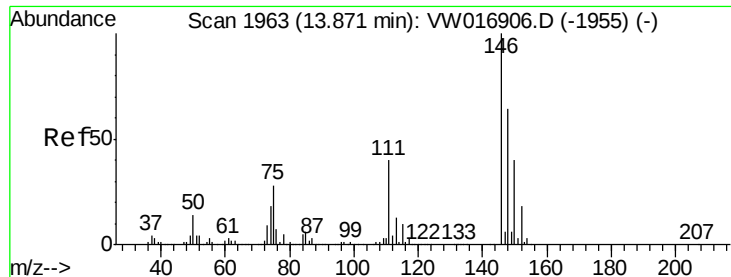
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 26.9  | 49.9  |
| 148     | 61.5  | 45.7  | 84.9  |



#64  
 1,4-Dichlorobenzene  
 Concen: 24.388 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 34.7  | 26.0  | 48.4  |
| 148     | 61.2  | 43.9  | 81.5  |

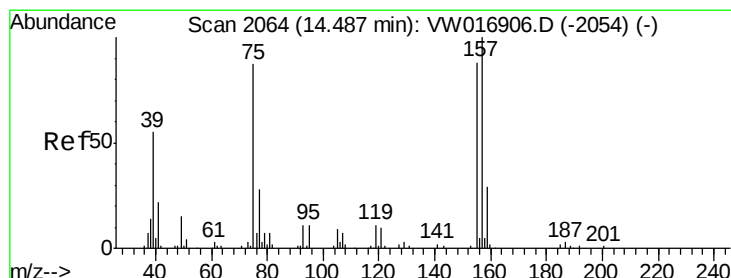
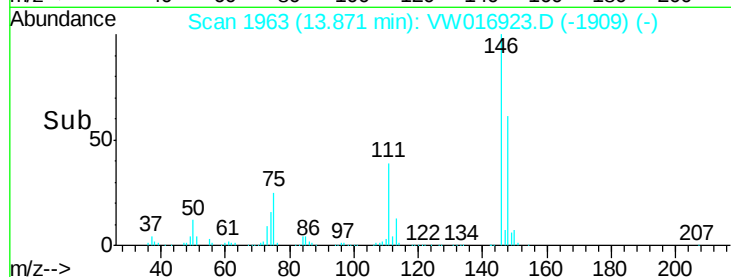
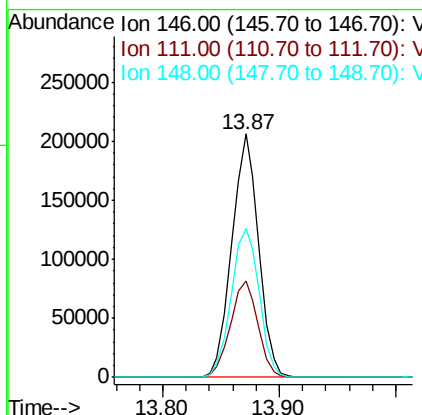
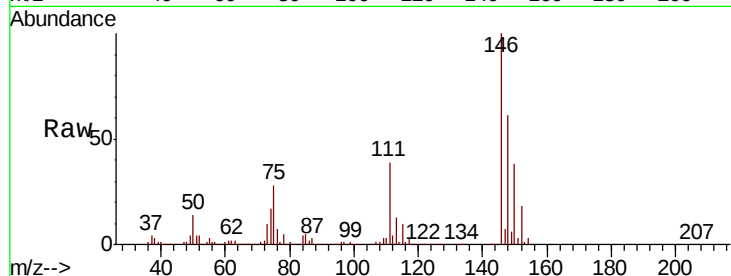




#65  
 1,2-Dichlorobenzene  
 Concen: 24.752 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

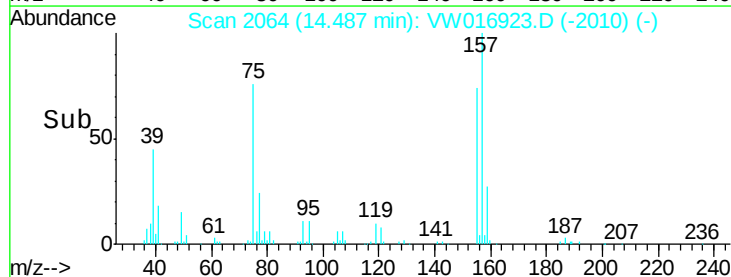
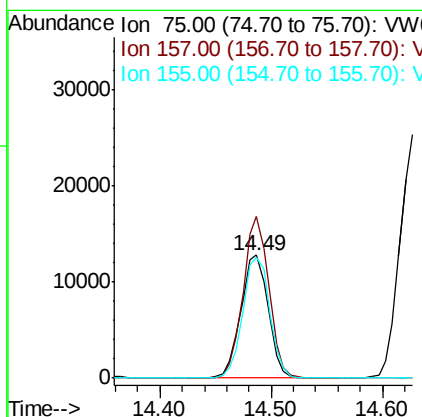
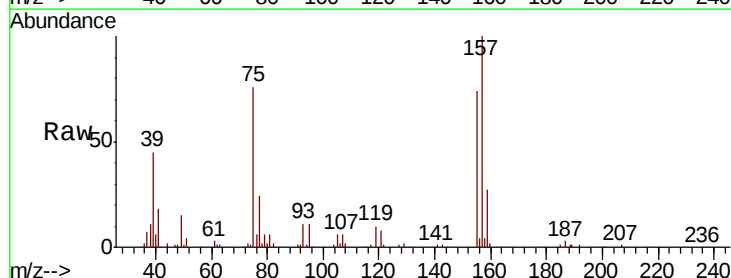
Instrument :  
 MSVOA\_W  
 ClientSampleId :

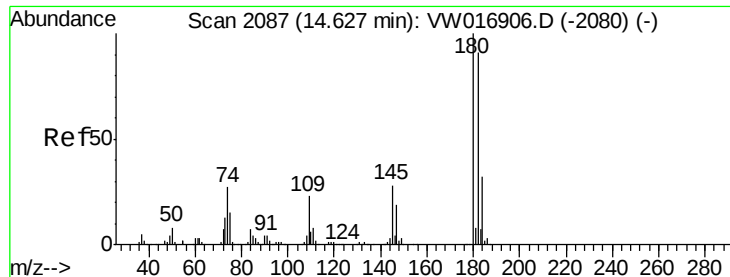
Tot Ion:146 Resp: 328984  
 Ion Ratio Lower Upper  
 146 100  
 111 39.5 32.1 48.1  
 148 61.4 51.8 77.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 26.990 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Tgt Ion: 75 Resp: 21760  
 Ion Ratio Lower Upper  
 75 100  
 157 132.0 100.5 150.7  
 155 98.3 74.7 112.1

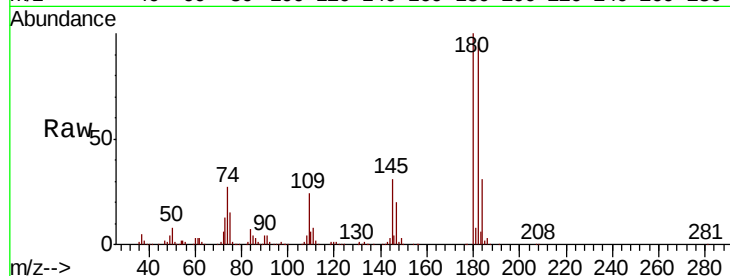




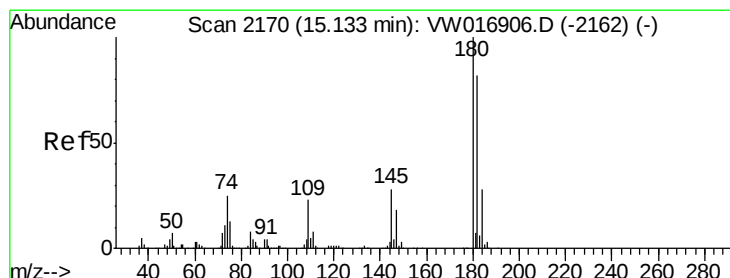
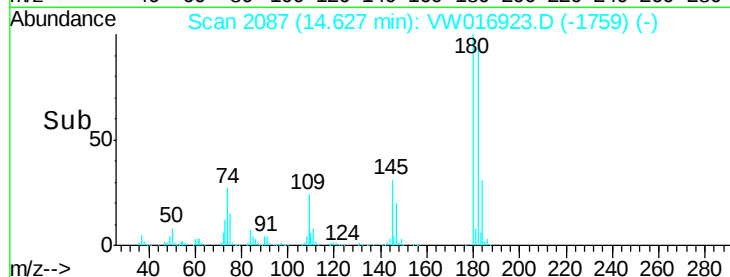
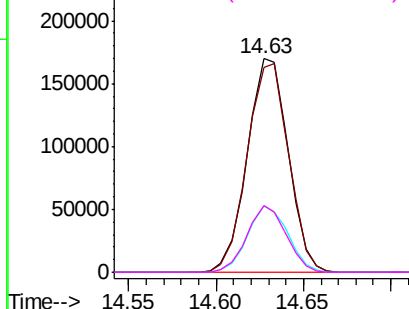
#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.063 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 276556     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 98.7  | 79.0 118.6 |
| 184         | 30.6  | 24.9 37.3  |
| 145         | 30.0  | 23.0 34.4  |

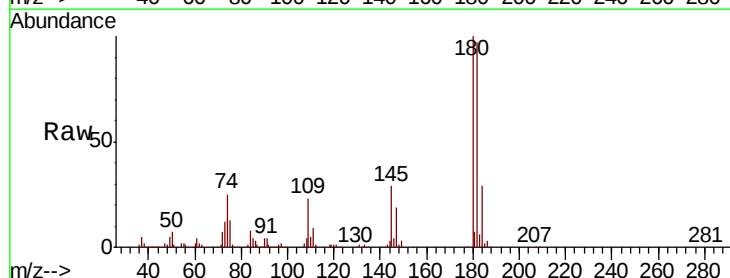


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

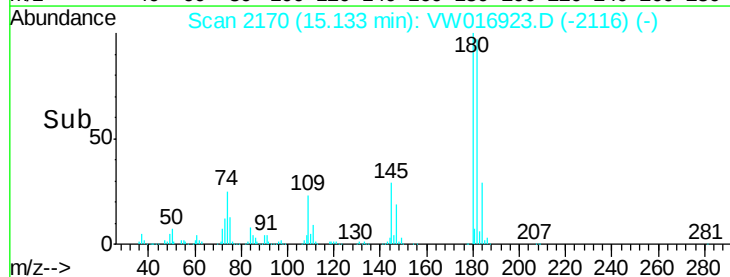
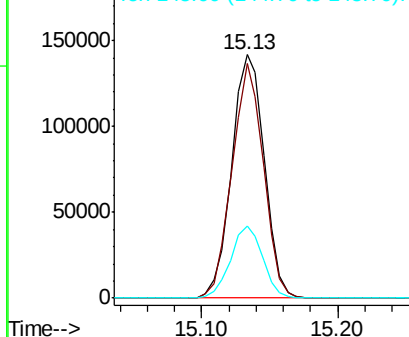


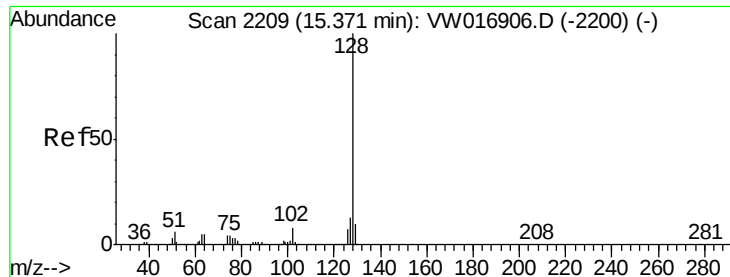
#68  
 1,2,4-trichlorobenzene  
 Concen: 26.135 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW016923.D  
 Acq: 16 Oct 2020 12:01

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 236866     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 92.7  | 74.2 111.2 |
| 145         | 28.9  | 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: 28.378 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

Instrument :

MSVOA\_W

ClientSampleId :

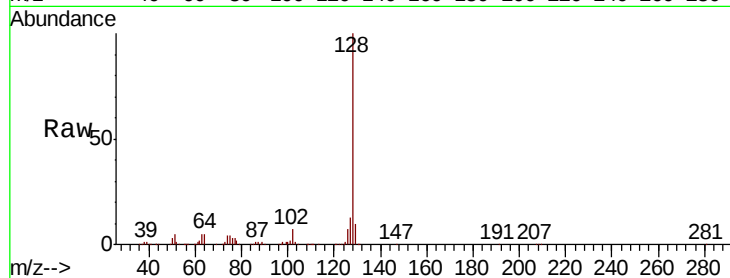
Tot Ion:128 Resp: 425896

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

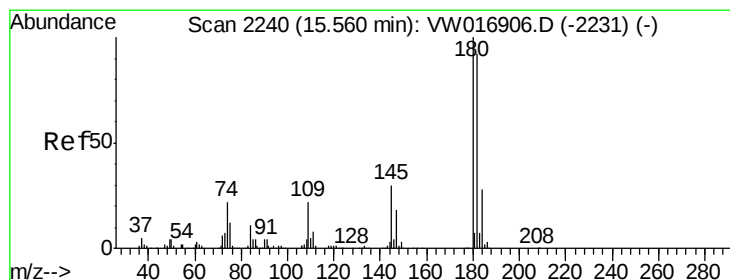
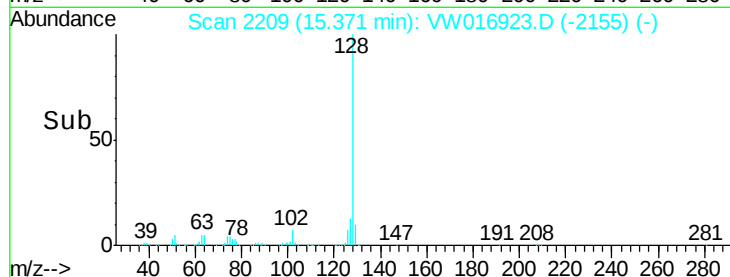
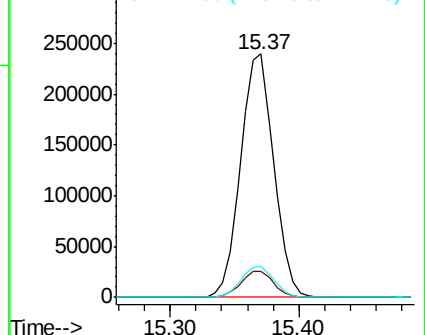
127 12.5 10.1 15.1



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: 26.747 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016923.D

Acq: 16 Oct 2020 12:01

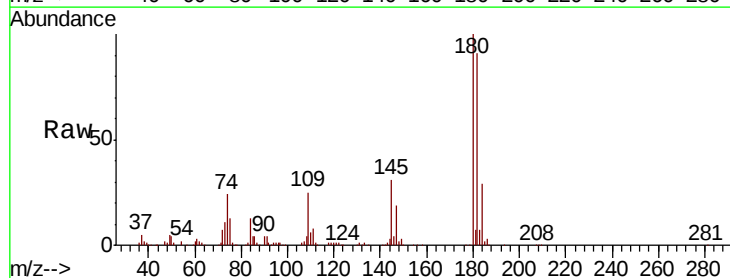
Tgt Ion:180 Resp: 208306

Ion Ratio Lower Upper

180 100

182 93.8 74.1 111.1

145 30.8 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

