

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052820\  
 Data File : VW015518.D  
 Acq On : 28 May 2020 15:16  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10.0mL/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: May 29 03:25:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM052620S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 29 03:23:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 346115   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 313575   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 156173   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 92132    | 29.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 116.20% |
| 7) Chloroethane-d5             | 2.90   | 69    | 91319    | 28.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 115.80% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 199295   | 25.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 103.16% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 59276    | 57.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.48% |
| 24) Chloroform-d               | 7.65   | 84    | 212856   | 26.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.36% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 120590   | 27.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 108.32% |
| 29) Benzene-d6                 | 8.27   | 84    | 408912   | 26.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.36% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 125047   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.04% |
| 37) Toluene-d8                 | 10.32  | 98    | 393374   | 26.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 105.24% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 54921    | 25.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.60% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 48576    | 60.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.08% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 102268   | 29.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 116.24% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 136832   | 26.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 104.56% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 71606    | 23.418 | ug/L  | 96     |
| 3) Chloromethane               | 2.21 | 50   | 74423    | 22.110 | ug/L  | 98     |
| 5) Vinyl chloride              | 2.37 | 62   | 118699   | 23.449 | ug/L  | 98     |
| 6) Bromomethane                | 2.79 | 94   | 76814    | 23.347 | ug/L  | 99     |
| 8) Chloroethane                | 2.93 | 64   | 74151    | 24.064 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 83697    | 23.234 | ug/L  | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 101480   | 23.752 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 96675    | 23.425 | ug/L  | 99     |
| 13) Acetone                    | 4.12 | 43   | 47314    | 59.102 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.38 | 76   | 303258   | 22.026 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.68 | 43   | 45420    | 26.224 | ug/L  | 100    |
| 16) Methylene chloride         | 4.92 | 84   | 104814   | 24.674 | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 159120   | 24.296 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 106346   | 24.044 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.22 | 63   | 190490   | 23.945 | ug/L  | 100    |
| 21) 2-Butanone                 | 7.18 | 43   | 63599    | 51.715 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 110492   | 23.948 | ug/L  | 99     |

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 MSVOA\_W  
 ClientSampleId :

Quant Time: May 29 03:25:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM052620S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 29 03:23:16 2020  
 Response via : Initial Calibration

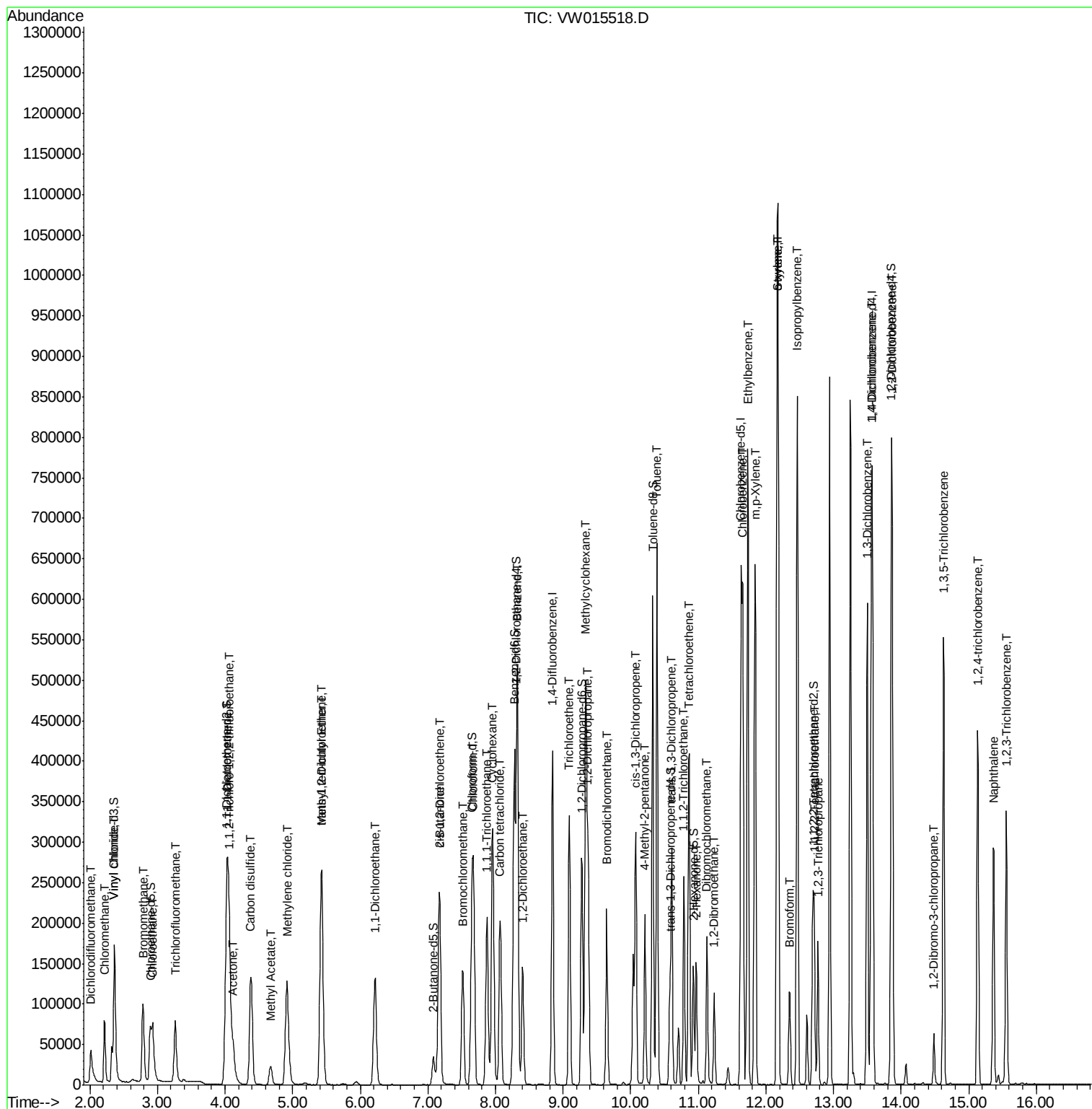
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 49465    | 24.862 | ug/L  | 97       |
| 25) Chloroform                  | 7.68  | 83   | 194263   | 24.252 | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 136625   | 25.212 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 181684   | 23.439 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 167378   | 23.860 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 154337   | 23.987 | ug/L  | 98       |
| 34) Benzene                     | 8.32  | 78   | 428830   | 24.454 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 113023   | 23.994 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 199473   | 23.744 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 106009   | 24.548 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 140502   | 24.354 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 170254   | 24.637 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 132016   | 52.151 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 470531   | 24.628 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 149748   | 24.900 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 78020    | 25.824 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 90162    | 24.147 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 89808    | 52.561 | ug/L  | 97       |
| 50) Dibromochloromethane        | 11.13 | 129  | 91360    | 24.890 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 75342    | 25.976 | ug/L  | 100      |
| 52) Chlorobenzene               | 11.66 | 112  | 292728   | 24.427 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 535695   | 24.419 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 203449   | 24.714 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 191746   | 24.539 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 332208   | 24.882 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.46 | 105  | 537278   | 24.684 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 93466    | 26.722 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 70920    | 26.741 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 51375    | 23.610 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 234523   | 24.541 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 228043   | 24.354 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 207158   | 24.945 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 15385    | 24.421 | ug/L  | 87       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 166072   | 25.101 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 133265   | 25.008 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 248777   | 25.711 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 113644   | 25.068 | ug/L  | 98       |

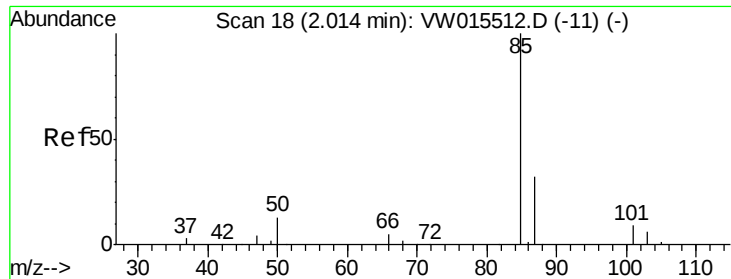
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampled :

Quant Time: May 29 03:25:17 2020  
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Quant Title : VOC Analysis  
QLast Update : Fri May 29 03:23:16 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.418 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

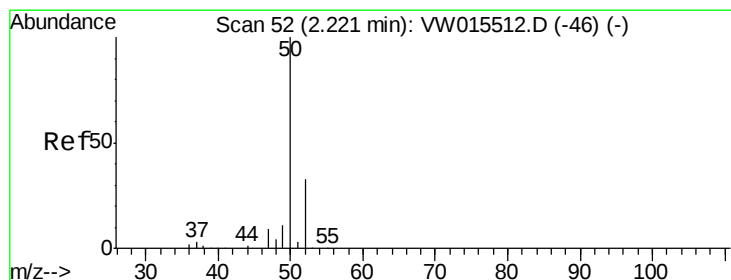
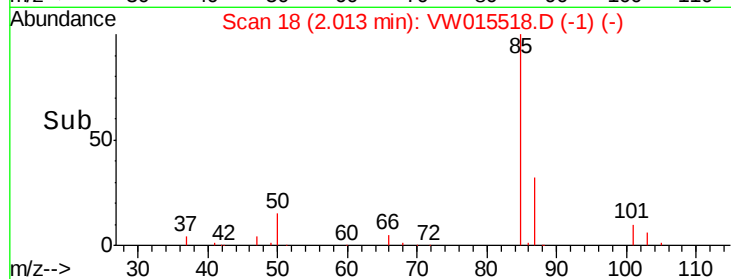
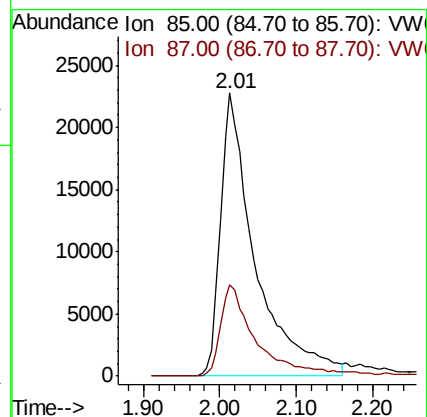
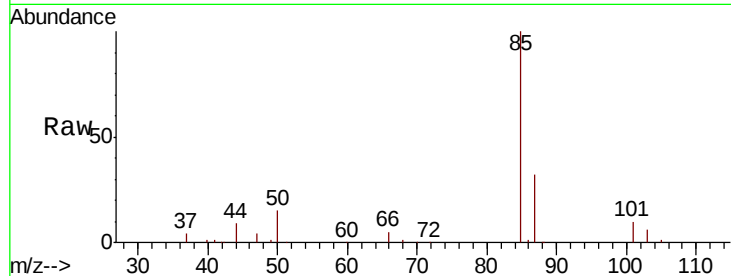
ClientSampleId :

Tot Ion: 85 Resp: 71606

Ion Ratio Lower Upper

85 100

87 27.8 21.1 39.1



#3

Chloromethane

Concen: 22.110 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW015518.D

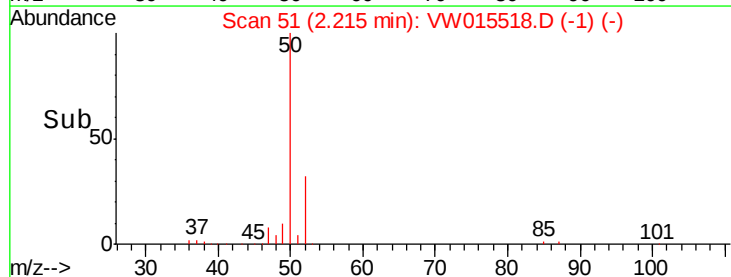
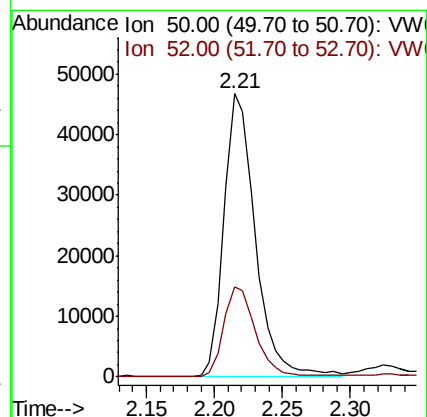
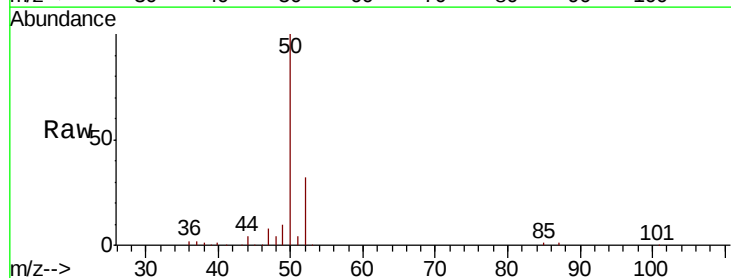
Acq: 28 May 2020 15:16

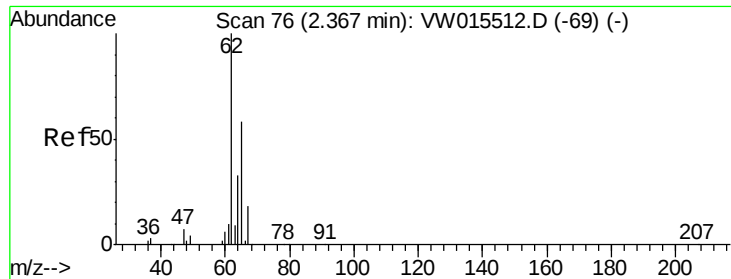
Tgt Ion: 50 Resp: 74423

Ion Ratio Lower Upper

50 100

52 32.1 23.3 43.3





#5

Vinyl chloride

Concen: 23.449 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

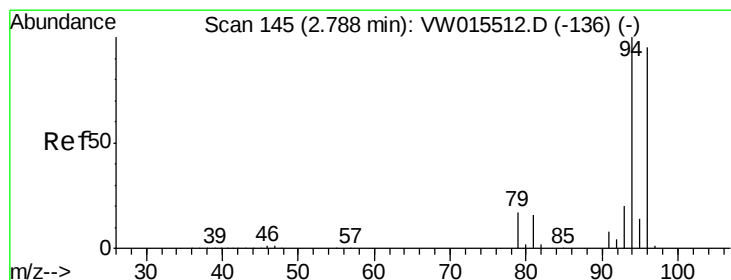
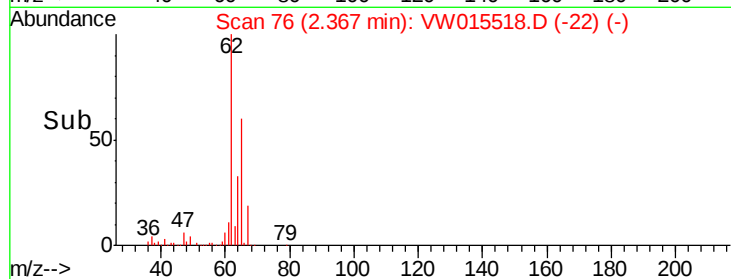
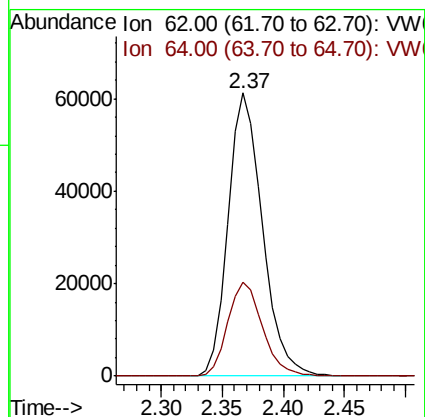
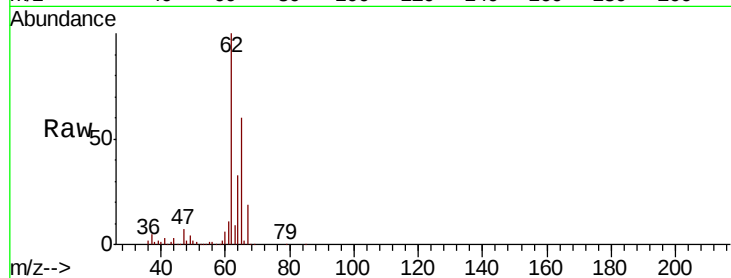
ClientSampleId :

Tot Ion: 62 Resp: 118699

Ion Ratio Lower Upper

62 100

64 33.2 22.6 42.0



#6

Bromomethane

Concen: 23.347 ug/L

RT: 2.79 min Scan# 145

Delta R.T. -0.00 min

Lab File: VW015518.D

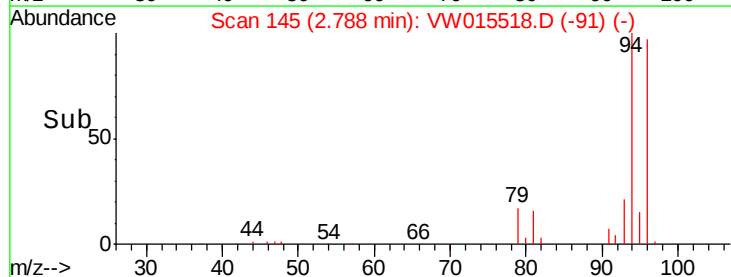
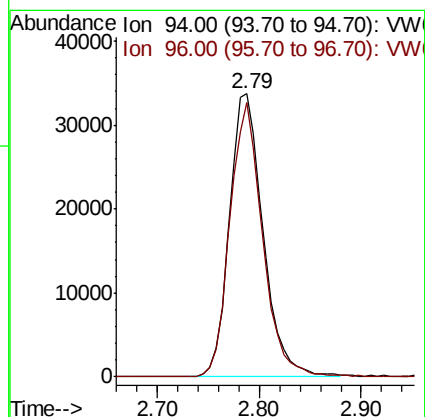
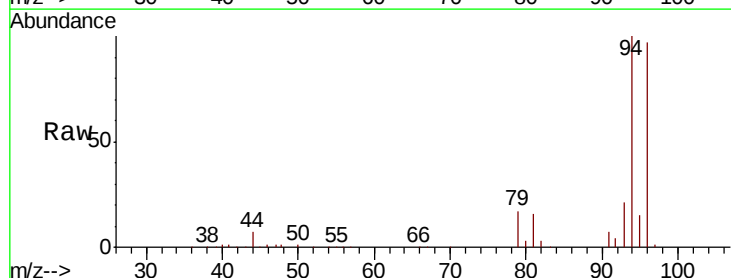
Acq: 28 May 2020 15:16

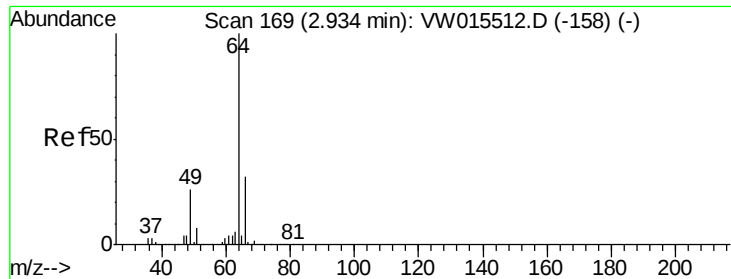
Tgt Ion: 94 Resp: 76814

Ion Ratio Lower Upper

94 100

96 94.1 9.3 177.5





#8

Chloroethane

Concen: 24.064 ug/L

RT: 2.93 min Scan# 169

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

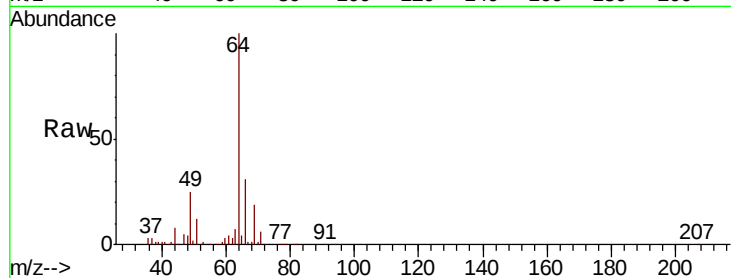
ClientSampled :

Tot Ion: 64 Resp: 74151

Ion Ratio Lower Upper

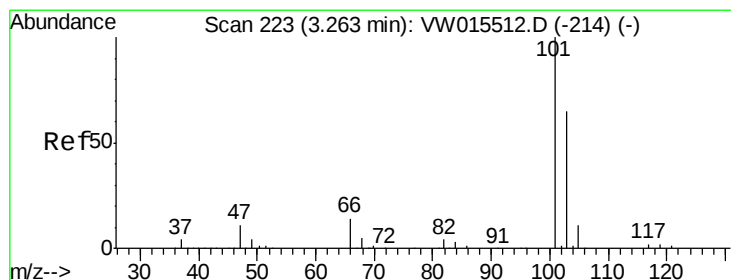
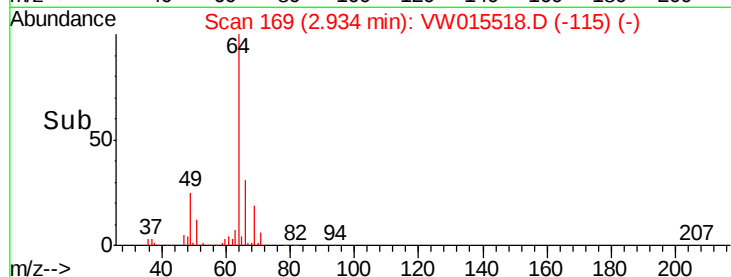
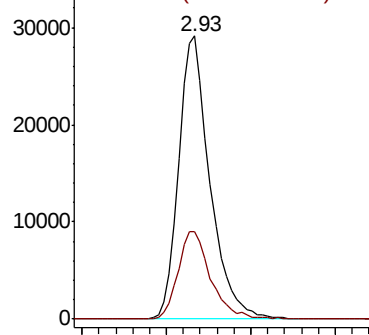
64 100

66 31.1 22.0 40.8



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 23.234 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW015518.D

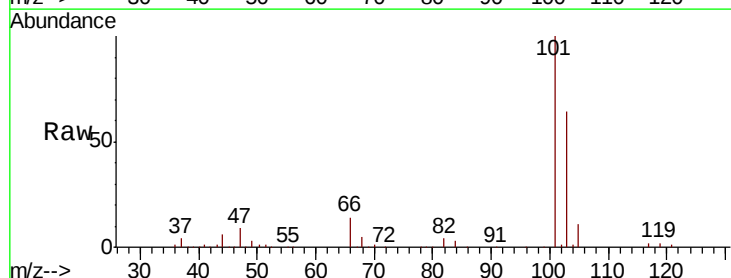
Acq: 28 May 2020 15:16

Tgt Ion: 101 Resp: 83697

Ion Ratio Lower Upper

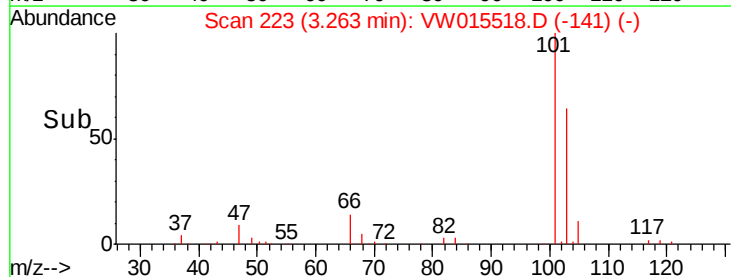
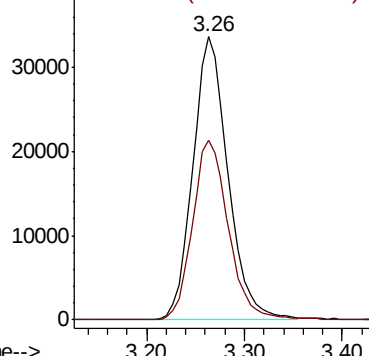
101 100

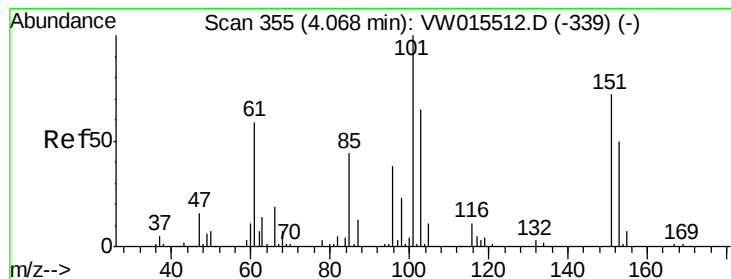
103 64.7 46.6 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 23.752 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

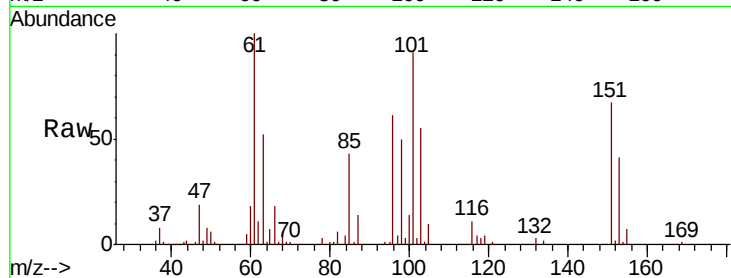
Tot Ion: 101 Resp: 101480

Ion Ratio Lower Upper

101 100

85 45.1 35.1 52.7

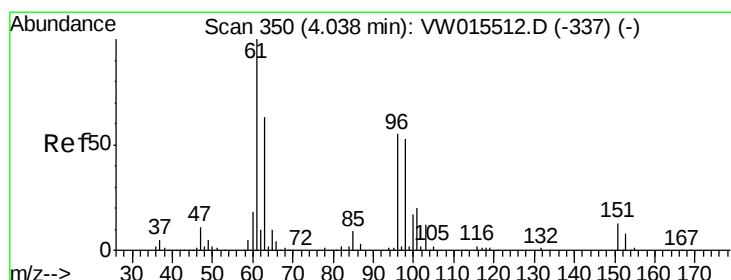
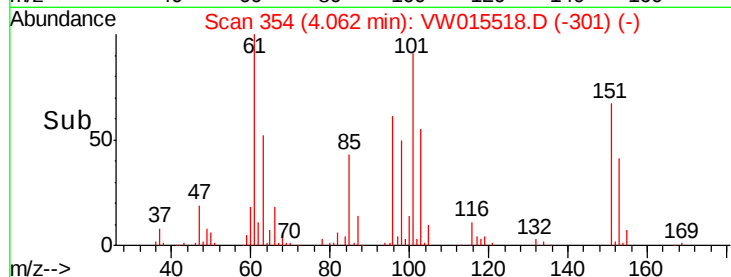
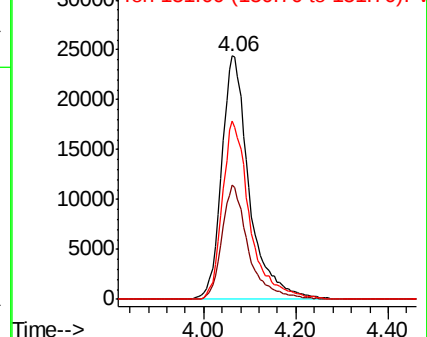
151 72.8 58.6 87.8



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: 23.425 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

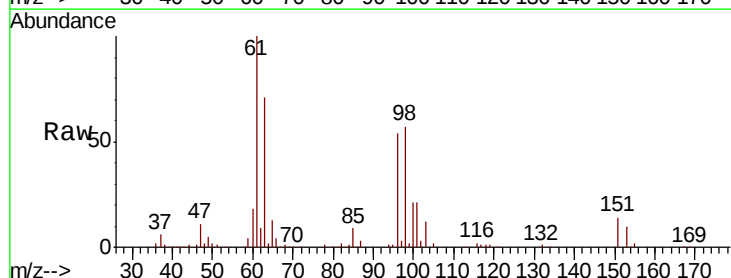
Tgt Ion: 96 Resp: 96675

Ion Ratio Lower Upper

96 100

61 184.9 127.7 237.1

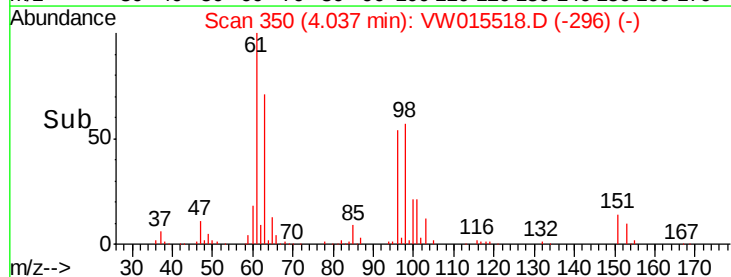
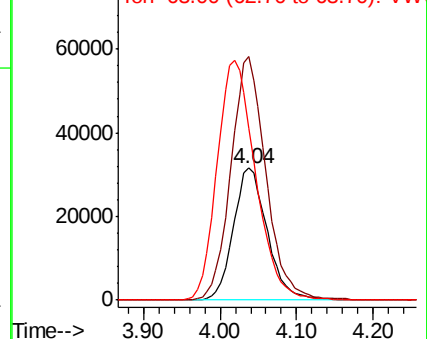
63 130.7 92.3 171.5

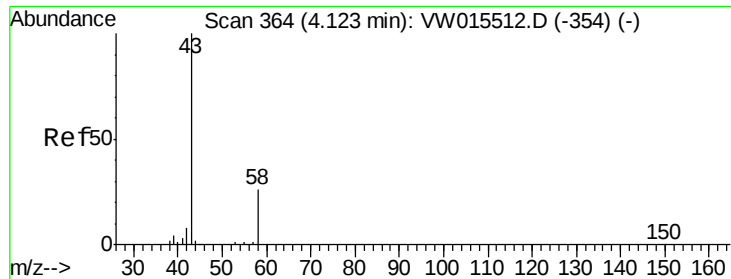


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 59.102 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

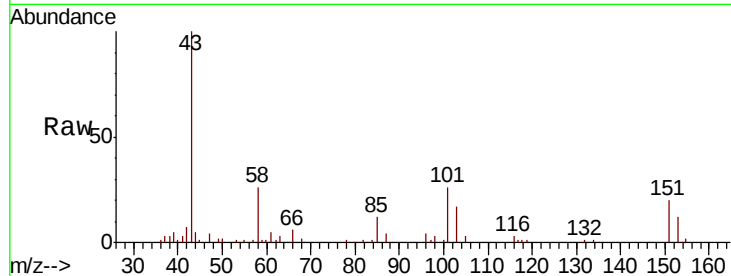
ClientSampleId :

Tot Ion: 43 Resp: 47314

Ion Ratio Lower Upper

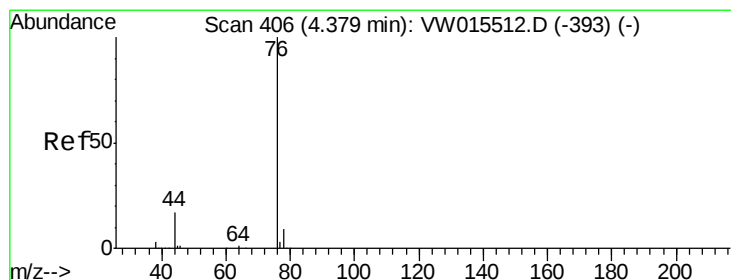
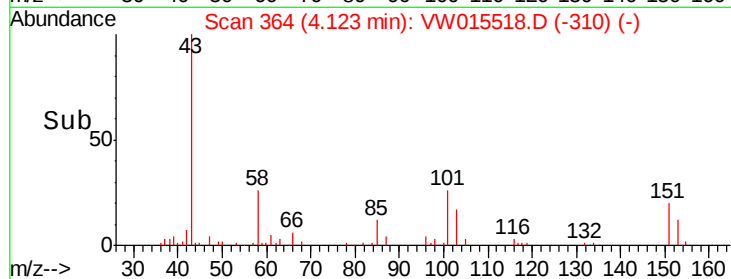
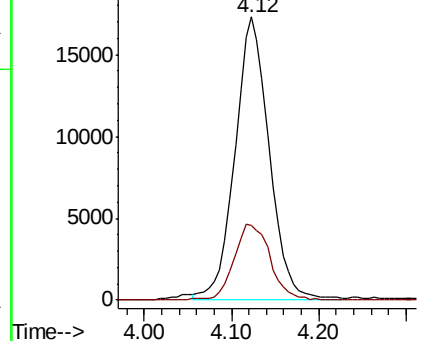
43 100

58 27.7 0.0 56.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 22.026 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW015518.D

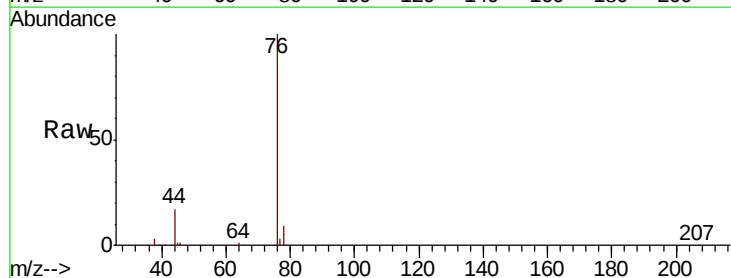
Acq: 28 May 2020 15:16

Tgt Ion: 76 Resp: 303258

Ion Ratio Lower Upper

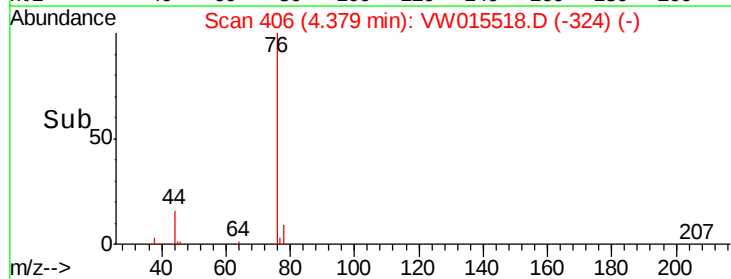
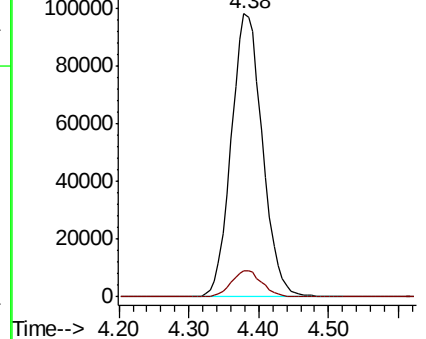
76 100

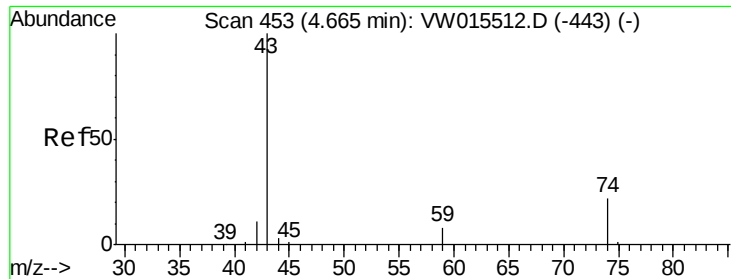
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

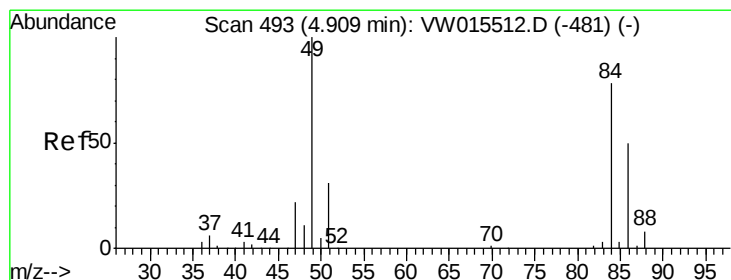
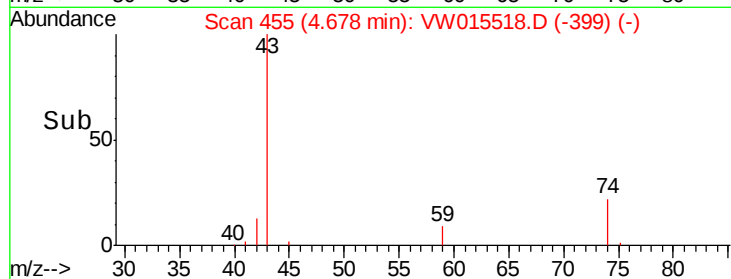
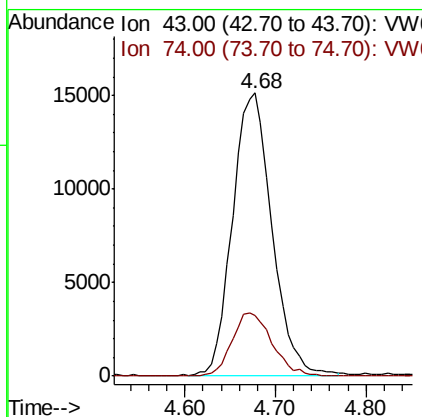
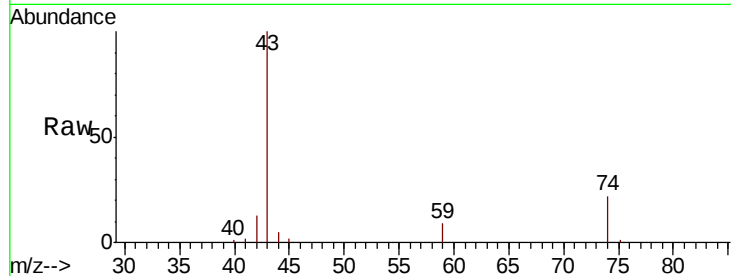




#15  
Methvl Acetate  
Concen: 26.224 ug/L  
RT: 4.68 min Scan# 455  
Delta R.T. 0.01 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

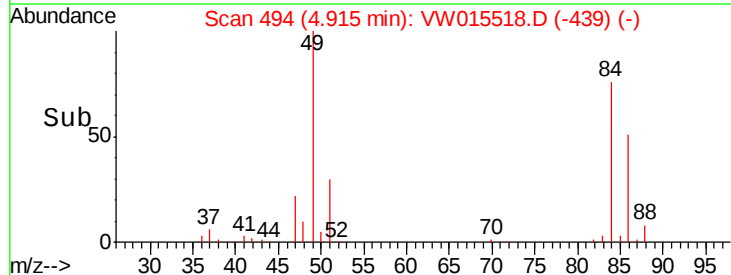
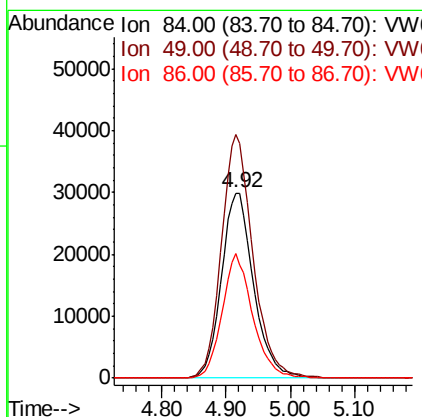
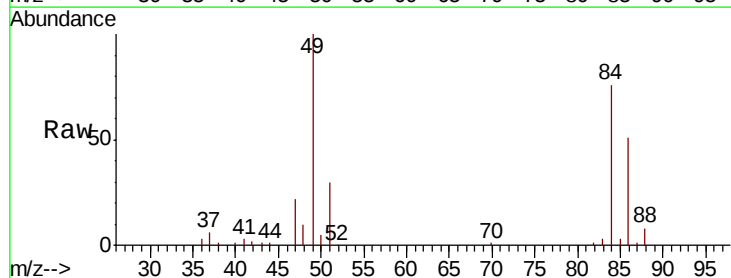
Instrument :  
MSVOA\_W  
ClientSampleId :

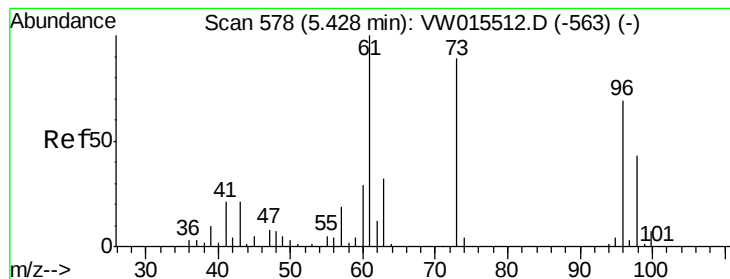
Tot Ion: 43 Resp: 45420  
Ion Ratio Lower Upper  
43 100  
74 22.6 18.2 27.2



#16  
Methylene chloride  
Concen: 24.674 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Tgt Ion: 84 Resp: 104814  
Ion Ratio Lower Upper  
84 100  
49 131.6 93.0 172.8  
86 67.4 44.7 83.1



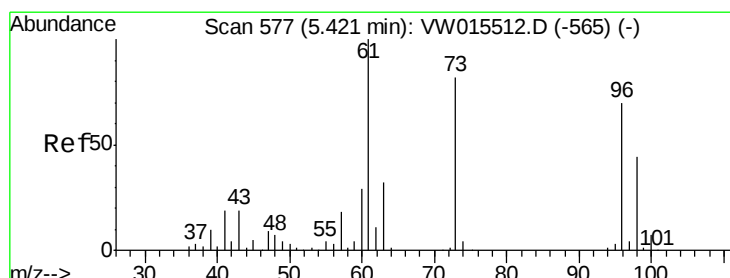
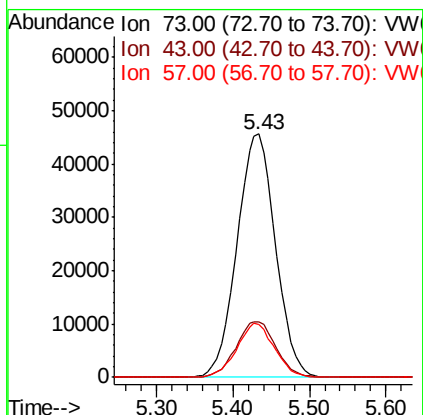
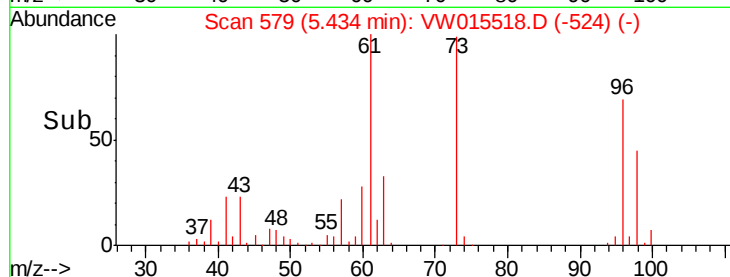
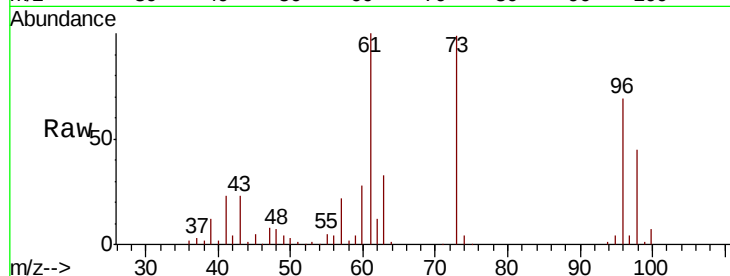


#17

Methvl tert-butvl Ether  
 Concen: 24.296 ug/L  
 RT: 5.43 min Scan# 579  
 Delta R.T. 0.01 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Instrument :  
 MSVOA\_W  
 ClientSampled :

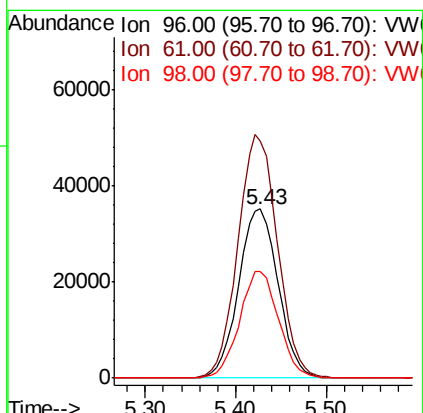
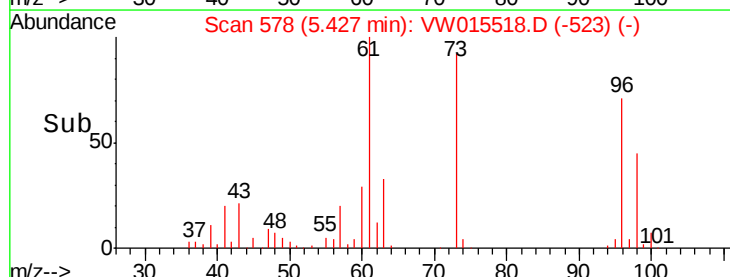
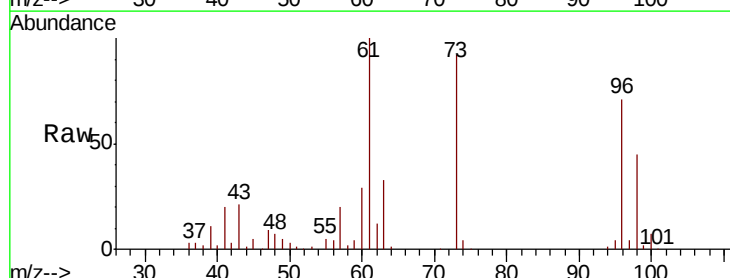
Tot Ion: 73 Resp: 159120  
 Ion Ratio Lower Upper  
 73 100  
 43 23.6 19.6 29.4  
 57 21.7 17.7 26.5

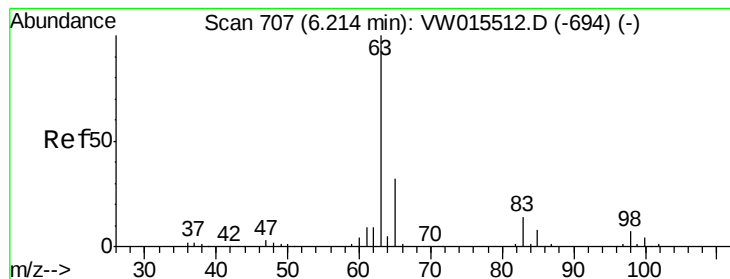


#18

trans-1,2-Dichloroethene  
 Concen: 24.044 ug/L  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.01 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Tgt Ion: 96 Resp: 106346  
 Ion Ratio Lower Upper  
 96 100  
 61 140.4 101.9 189.3  
 98 63.5 44.9 83.5





#19

1,1-Dichloroethane

Concen: 23.945 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

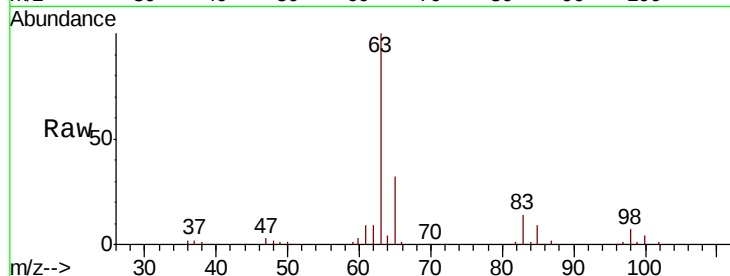
Tot Ion: 63 Resp: 190490

Ion Ratio Lower Upper

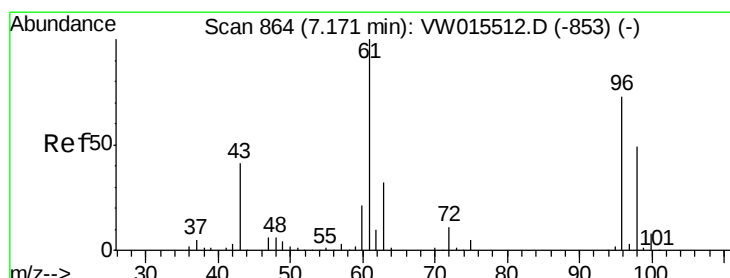
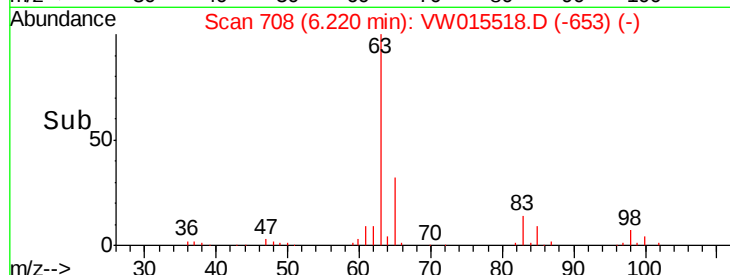
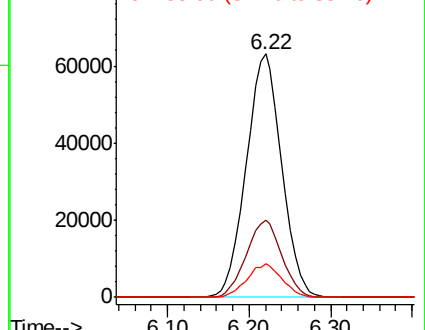
63 100

65 31.6 22.1 41.1

83 14.0 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VW  
Ion 65.00 (64.70 to 65.70): VW  
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 51.715 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015518.D

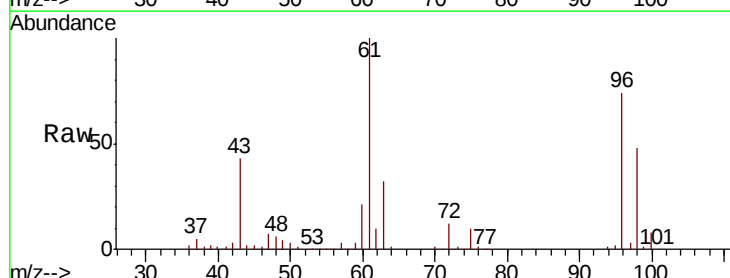
Acq: 28 May 2020 15:16

Tgt Ion: 43 Resp: 63599

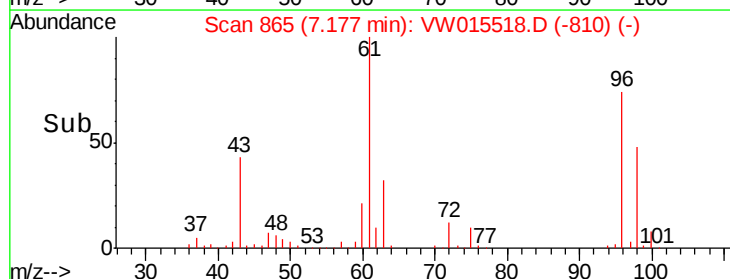
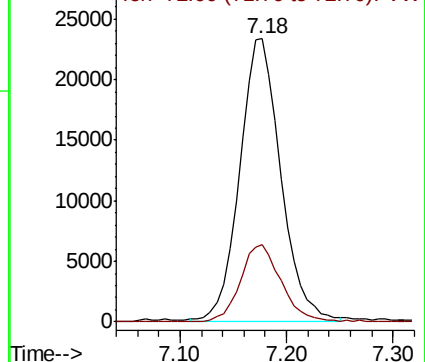
Ion Ratio Lower Upper

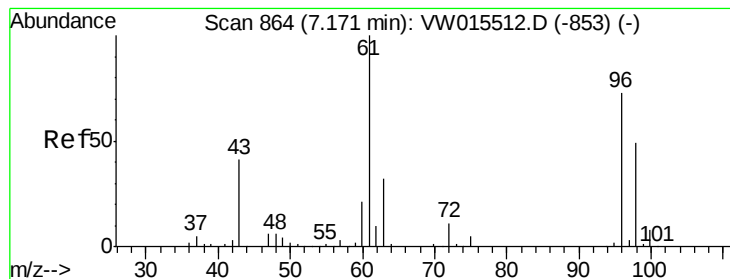
43 100

72 26.9 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW



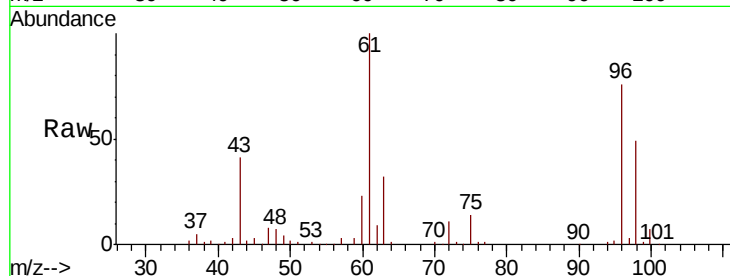


#22

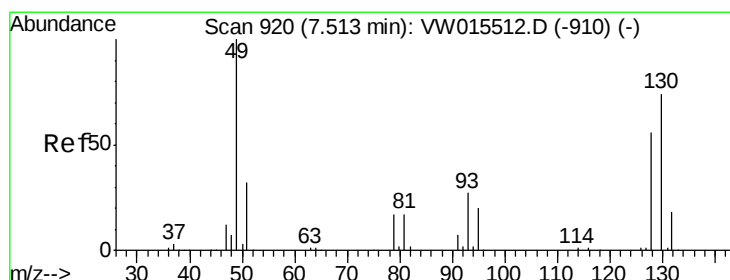
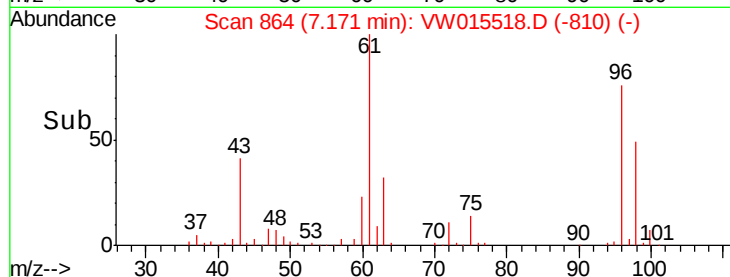
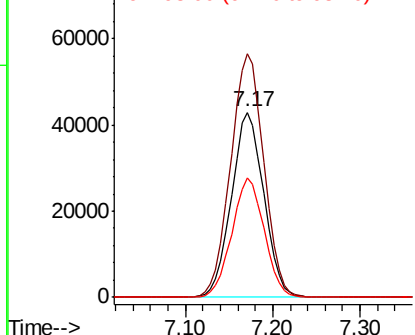
cis-1,2-Dichloroethene  
Concen: 23.948 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 96 Resp: 110492  
Ion Ratio Lower Upper  
96 100  
61 131.3 93.7 173.9  
98 64.5 45.1 83.9



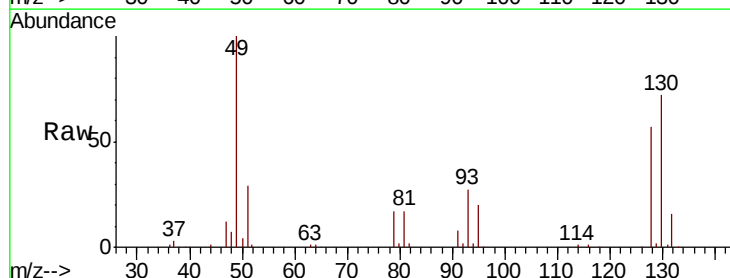
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



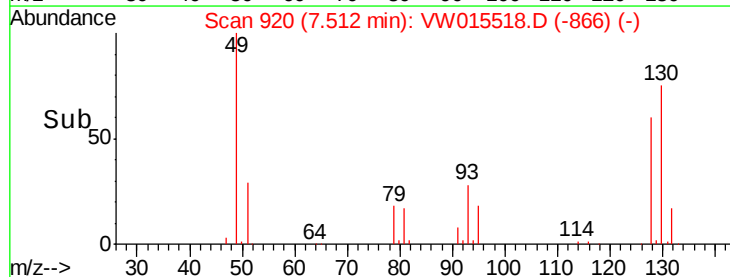
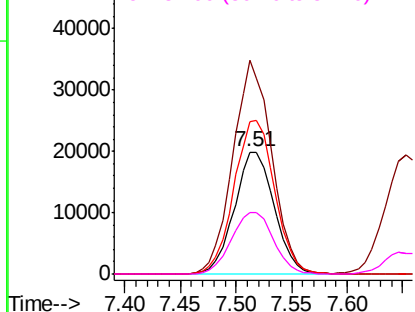
#23

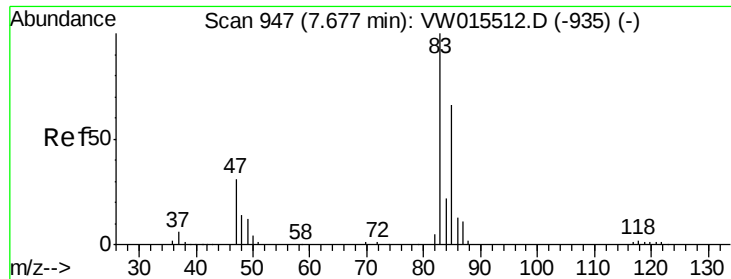
Bromochloromethane  
Concen: 24.862 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Tgt Ion: 128 Resp: 49465  
Ion Ratio Lower Upper  
128 100  
49 175.2 118.1 219.3  
130 125.3 88.5 164.3  
51 50.6 42.8 64.2



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

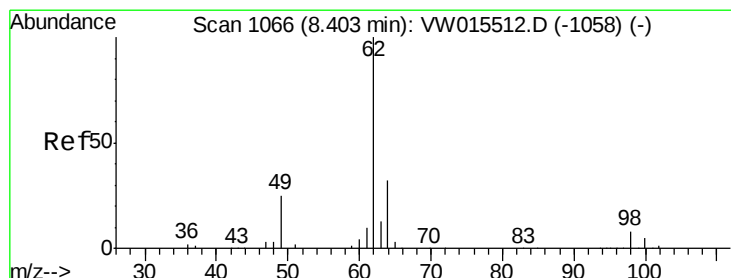
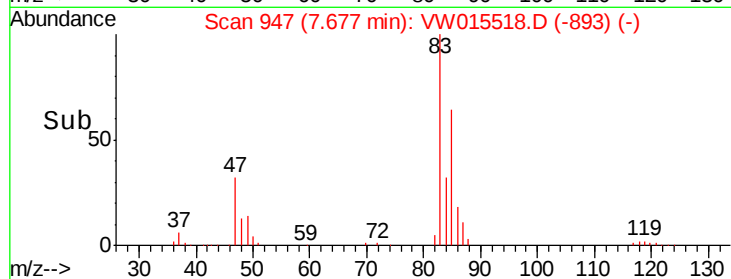
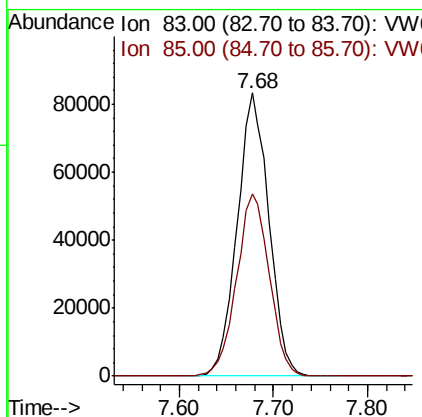
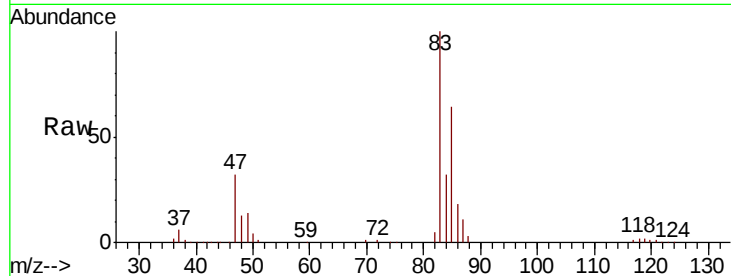




#25  
Chloroform  
Concen: 24.252 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

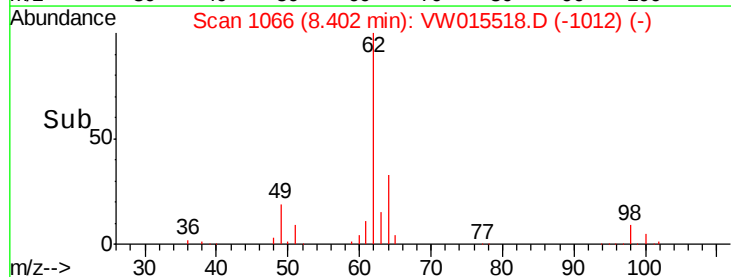
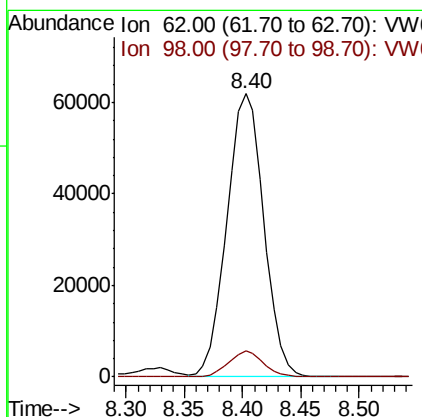
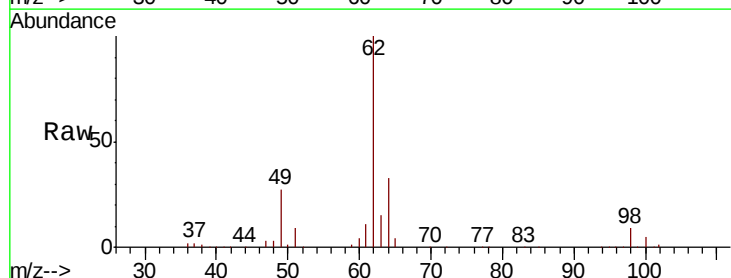
Instrument :  
MSVOA\_W  
ClientSampleId :

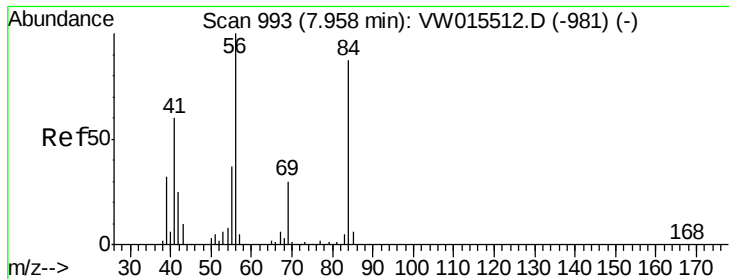
Tot Ion: 83 Resp: 194263  
Ion Ratio Lower Upper  
83 100  
85 66.7 45.7 84.9



#27  
1,2-Dichloroethane  
Concen: 25.212 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Tgt Ion: 62 Resp: 136625  
Ion Ratio Lower Upper  
62 100  
98 9.2 7.0 10.4

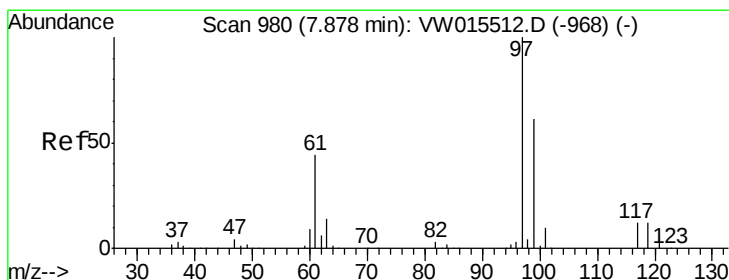
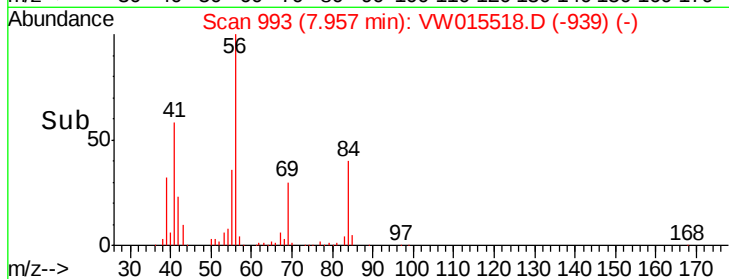
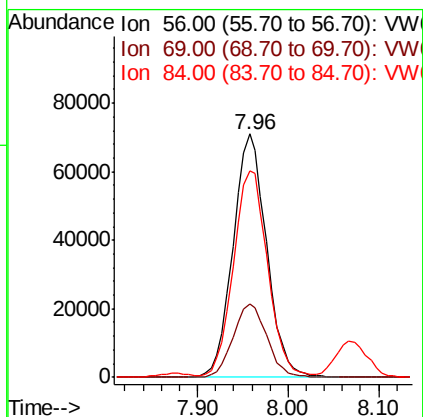
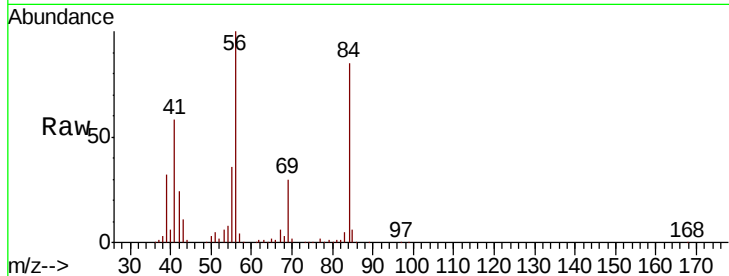




#30  
Cyclohexane  
Concen: 23.439 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

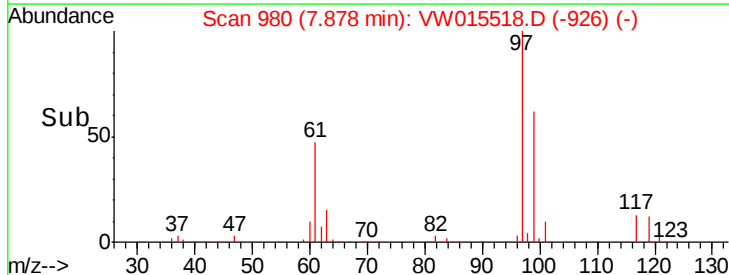
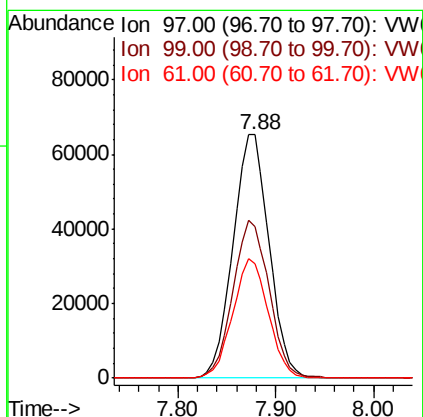
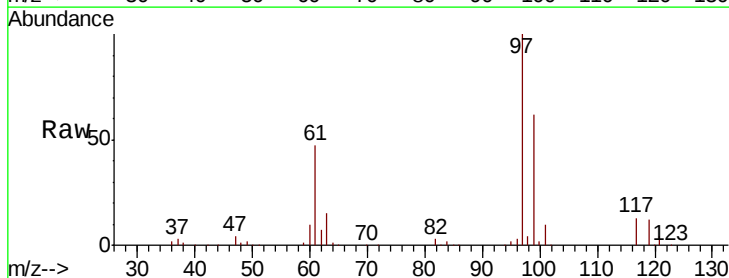
Instrument :  
MSVOA\_W  
ClientSampleId :

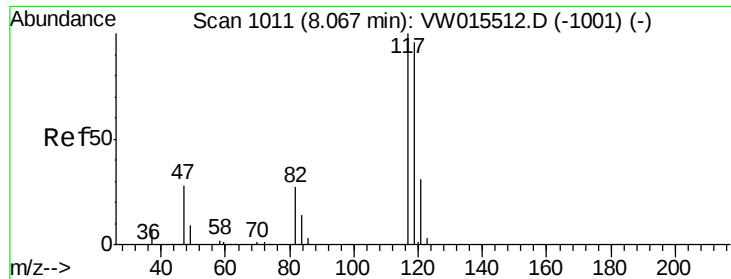
Tot Ion: 56 Resp: 181684  
Ion Ratio Lower Upper  
56 100  
69 30.5 24.6 37.0  
84 87.4 69.6 104.4



#31  
1,1,1-Trichloroethane  
Concen: 23.860 ug/L  
RT: 7.88 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Tgt Ion: 97 Resp: 167378  
Ion Ratio Lower Upper  
97 100  
99 64.9 51.4 77.0  
61 48.2 38.1 57.1





#32

Carbon tetrachloride

Concen: 23.987 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

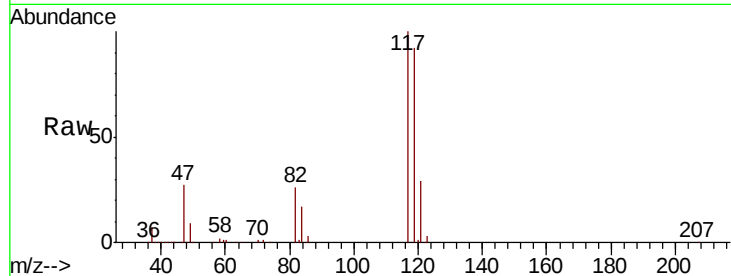
ClientSampleId :

Tot Ion:117 Resp: 154337

Ion Ratio Lower Upper

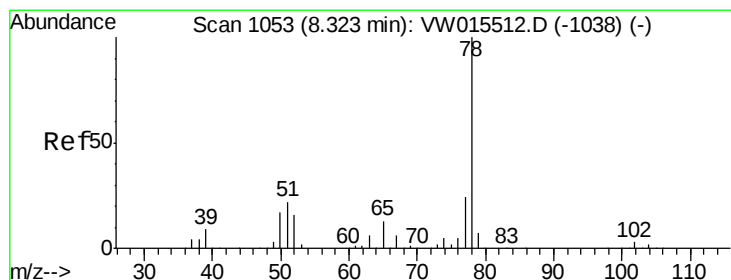
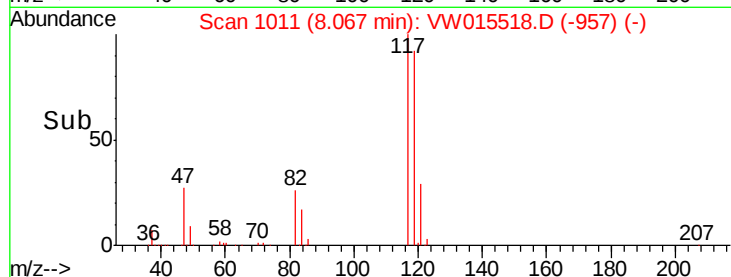
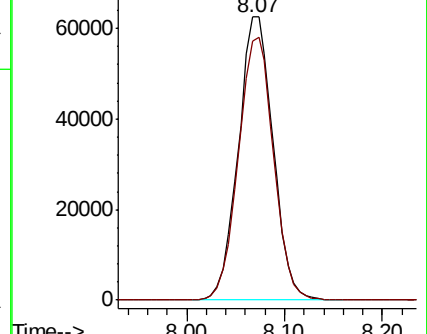
117 100

119 93.8 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.454 ug/L

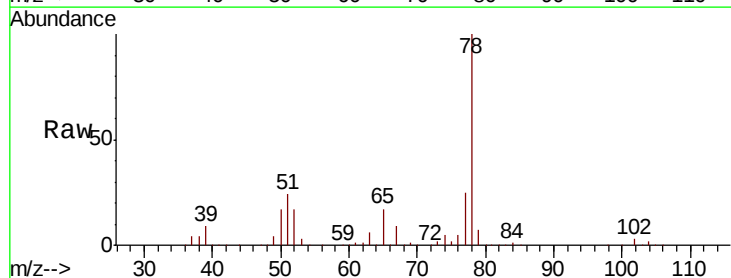
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

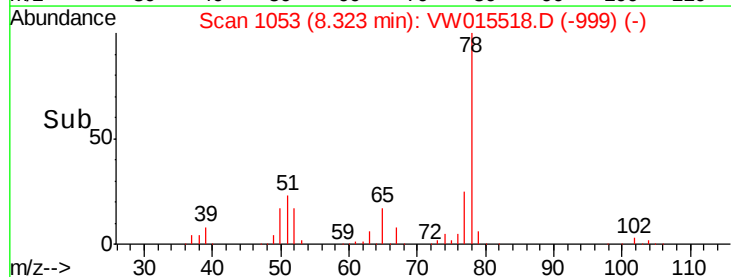
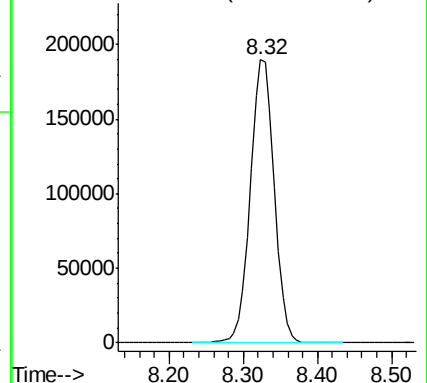
Lab File: VW015518.D

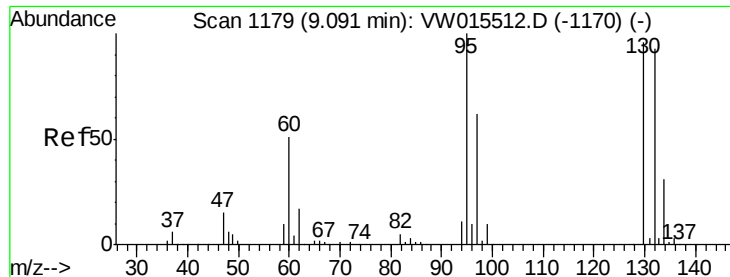
Acq: 28 May 2020 15:16

Tgt Ion: 78 Resp: 428830



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.994 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 95 Resp: 113023

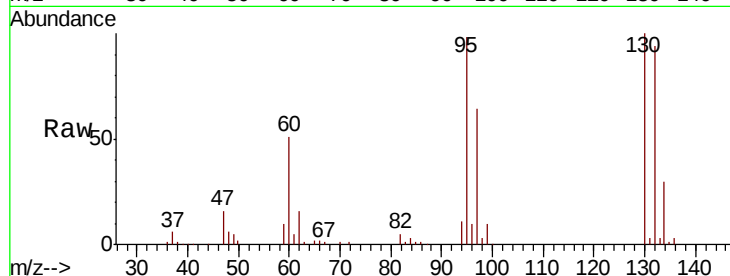
Ion Ratio Lower Upper

95 100

97 64.3 45.4 84.2

132 96.1 67.1 124.7

130 100.5 69.4 128.8

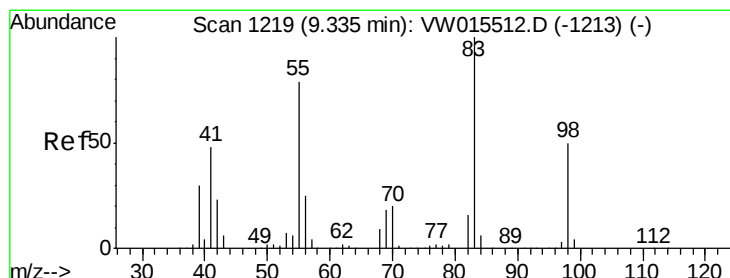
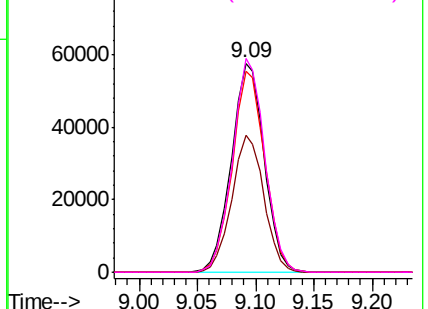
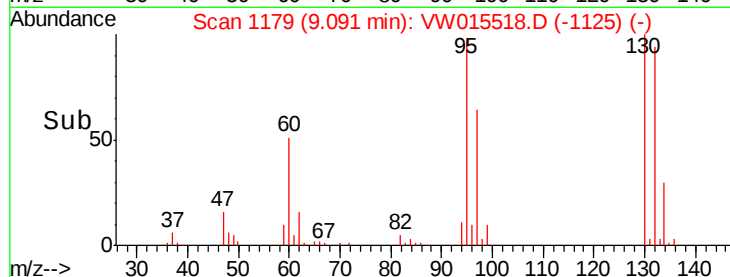


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 23.744 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

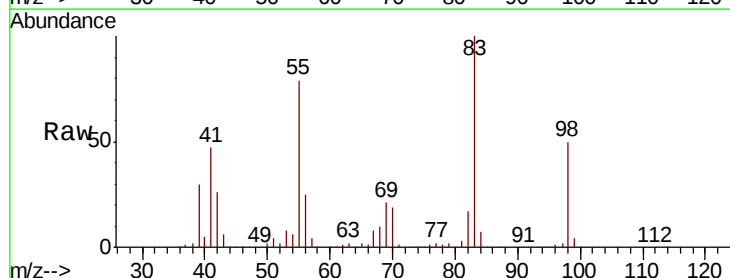
Tgt Ion: 83 Resp: 199473

Ion Ratio Lower Upper

83 100

55 78.9 62.8 94.2

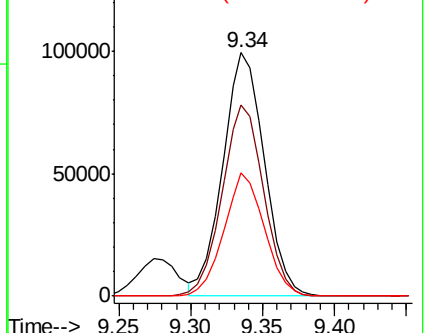
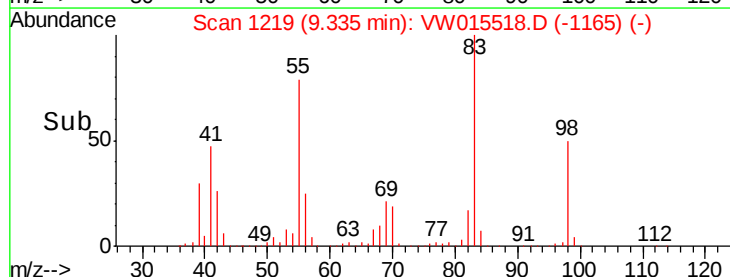
98 49.5 39.2 58.8

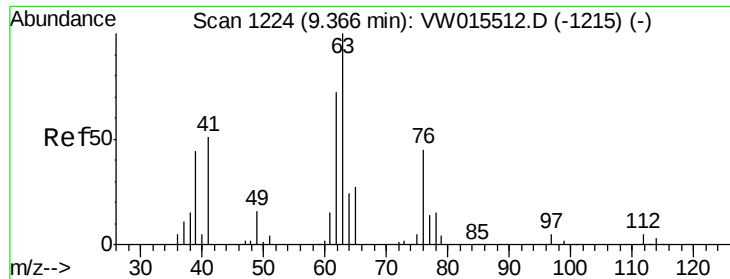


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

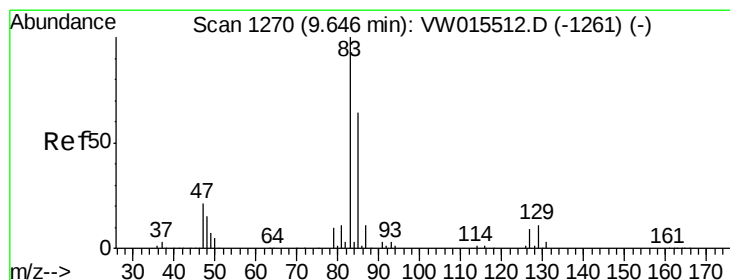
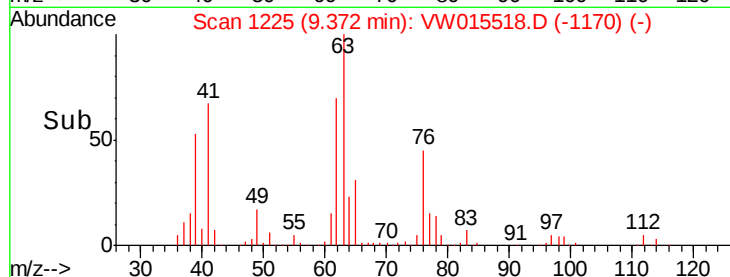
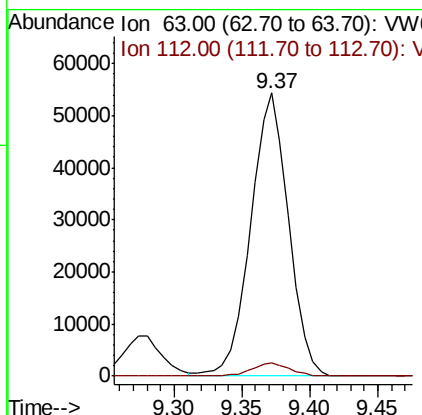
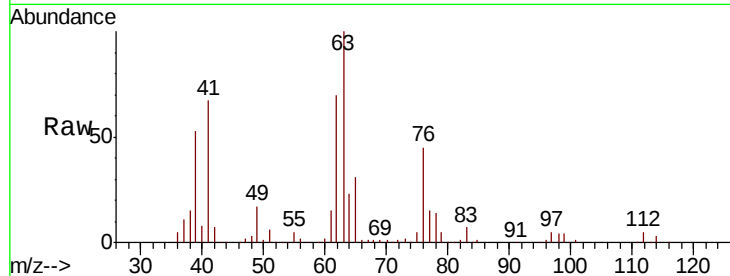




#40  
 1,2-Dichloropropane  
 Concen: 24.548 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

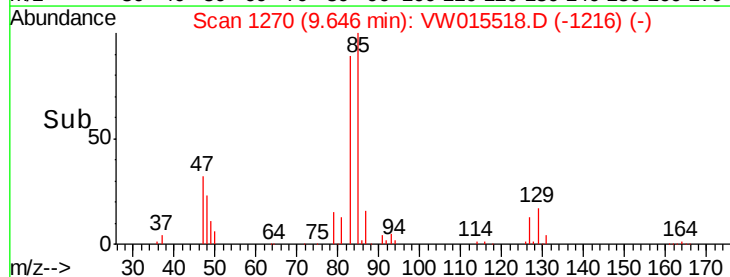
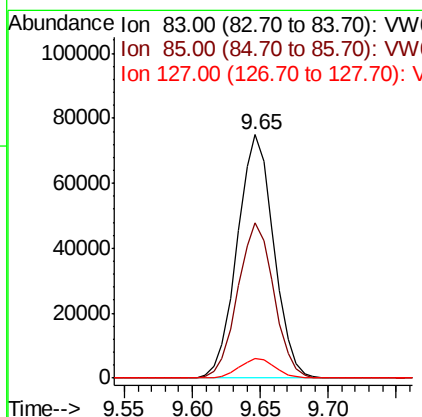
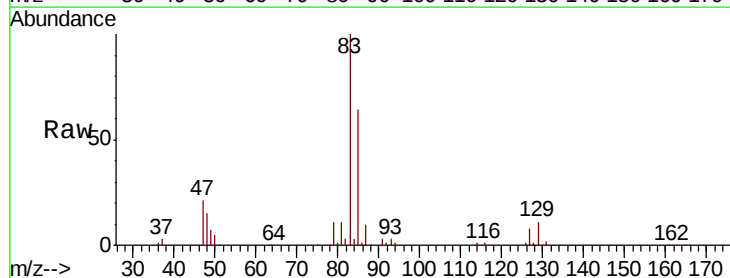
Instrument :  
 MSVOA\_W  
 ClientSampleId :

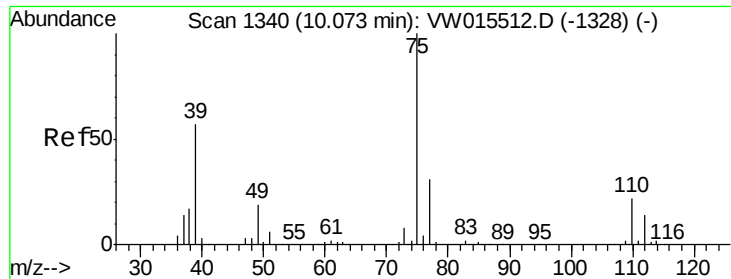
Tot Ion: 63 Resp: 106009  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.8 5.8



#41  
 Bromodichloromethane  
 Concen: 24.354 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Tgt Ion: 83 Resp: 140502  
 Ion Ratio Lower Upper  
 83 100  
 85 63.5 44.8 83.2  
 127 8.1 7.0 10.6

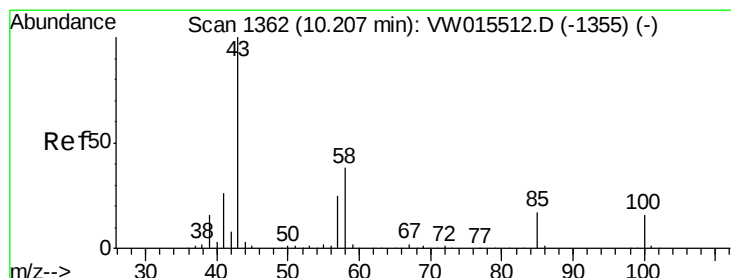
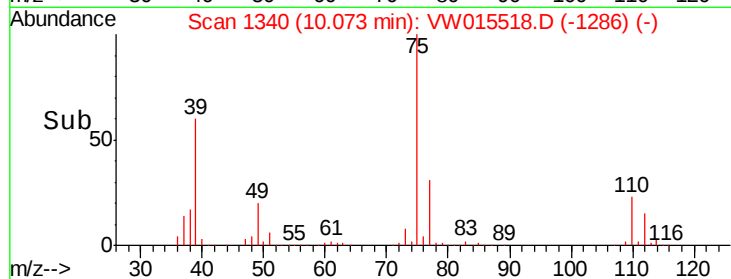
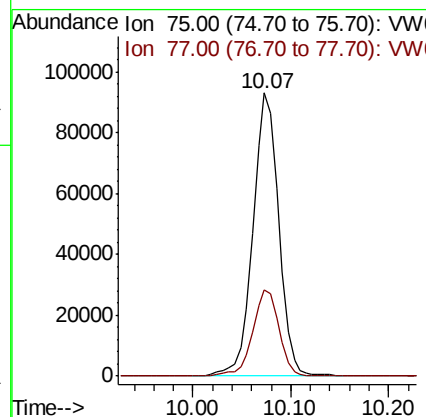
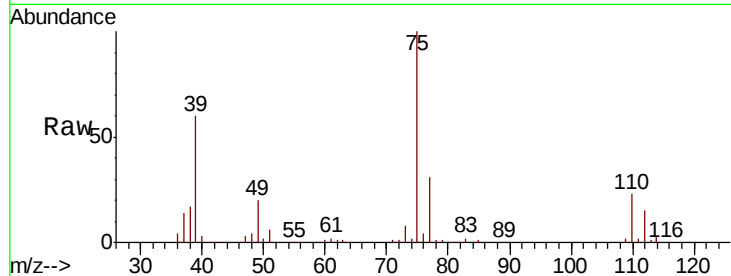




#42  
 cis-1,3-Dichloropropene  
 Concen: 24.637 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

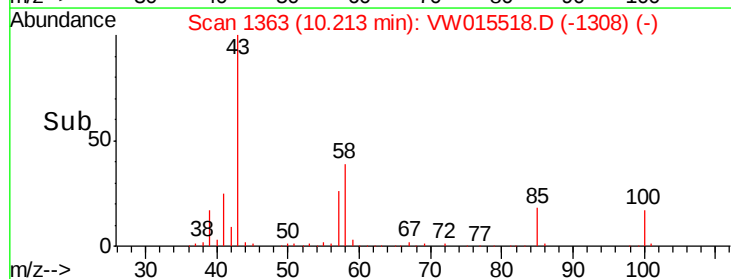
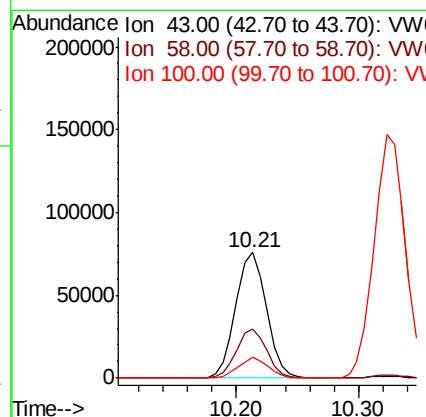
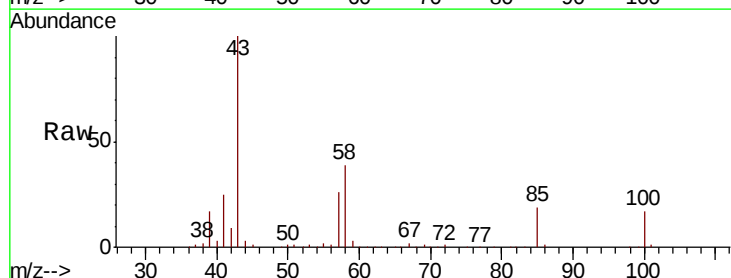
Instrument :  
 MSVOA\_W  
 ClientSampled :

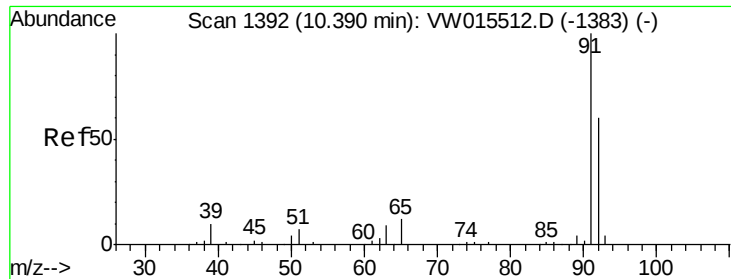
Tot Ion: 75 Resp: 170254  
 Ion Ratio Lower Upper  
 75 100  
 77 30.6 22.3 41.5



#43  
 4-Methyl-2-pentanone  
 Concen: 52.151 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.01 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Tgt Ion: 43 Resp: 132016  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 30.6 46.0  
 100 15.9 12.5 18.7





#44

Toluene

Concen: 24.628 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

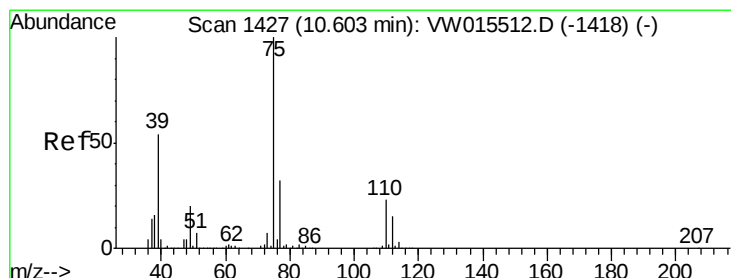
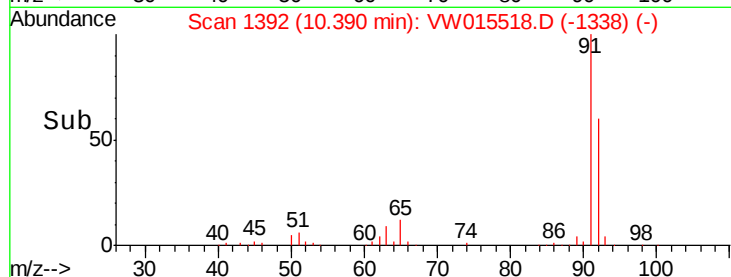
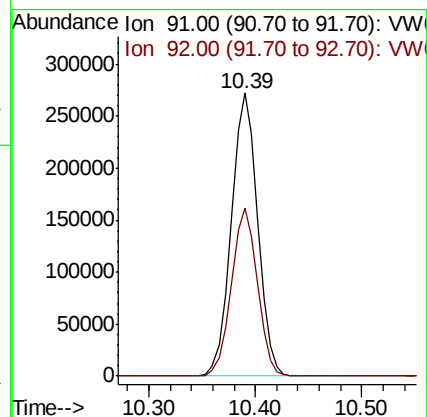
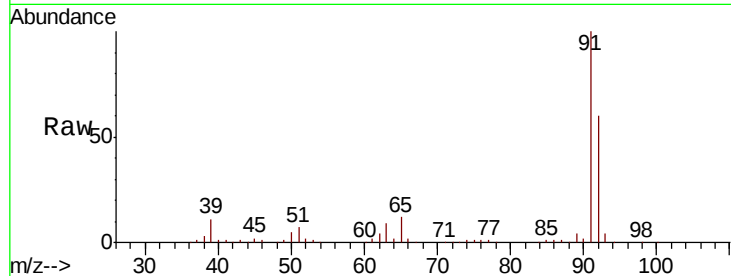
ClientSampleId :

Tot Ion: 91 Resp: 470531

Ion Ratio Lower Upper

91 100

92 59.6 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 24.900 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW015518.D

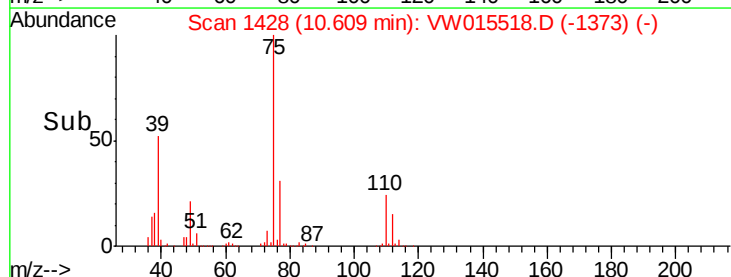
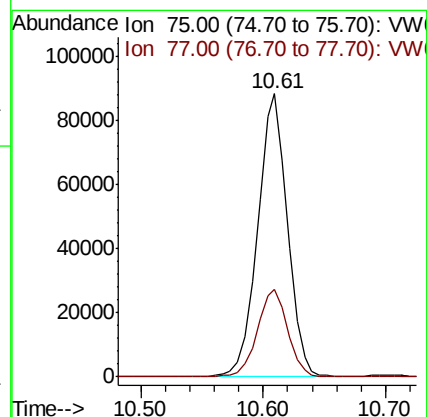
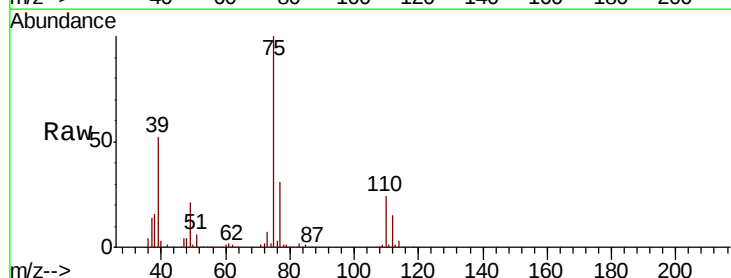
Acq: 28 May 2020 15:16

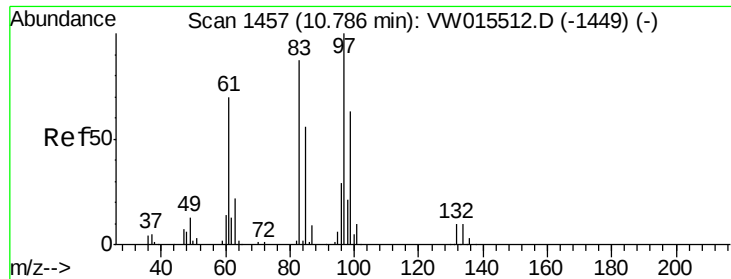
Tgt Ion: 75 Resp: 149748

Ion Ratio Lower Upper

75 100

77 31.0 21.5 39.9





#46

1,1,2-Trichloroethane

Concen: 25.824 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 78020

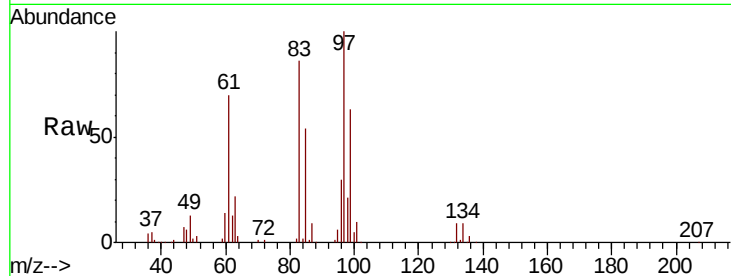
Ion Ratio Lower Upper

97 100

83 86.3 58.2 108.2

85 54.3 37.4 69.4

99 63.4 43.7 81.1



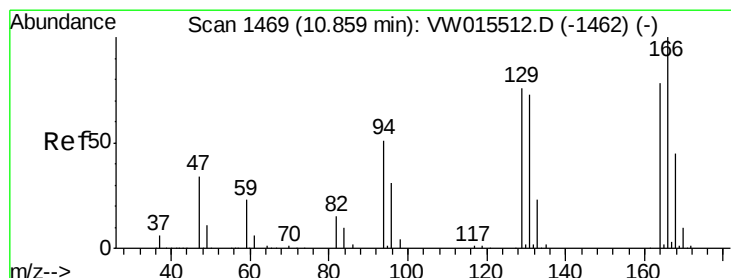
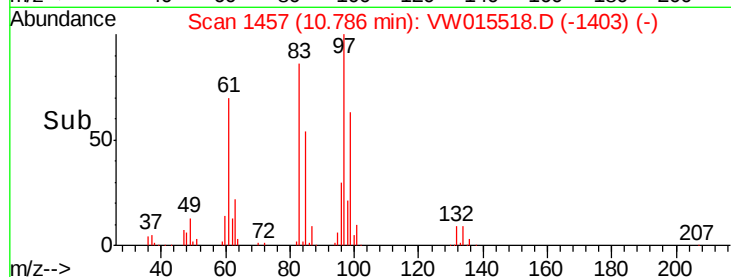
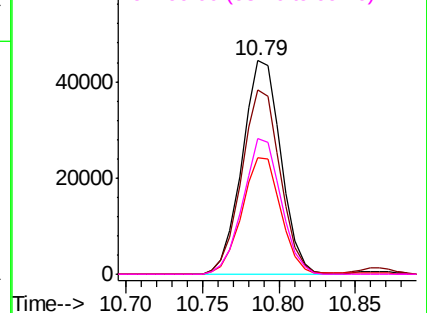
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.147 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Tgt Ion: 164 Resp: 90162

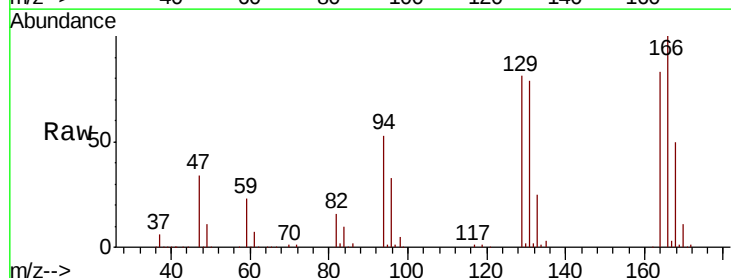
Ion Ratio Lower Upper

164 100

129 97.9 66.3 123.1

131 95.4 65.1 120.9

166 120.7 90.8 168.6



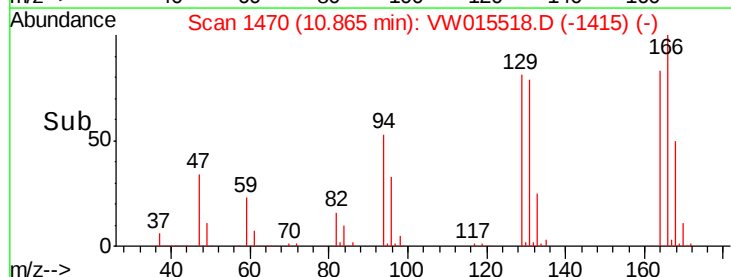
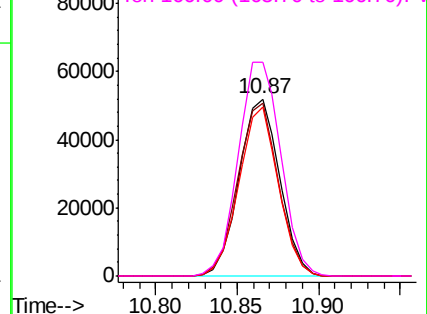
Abundance

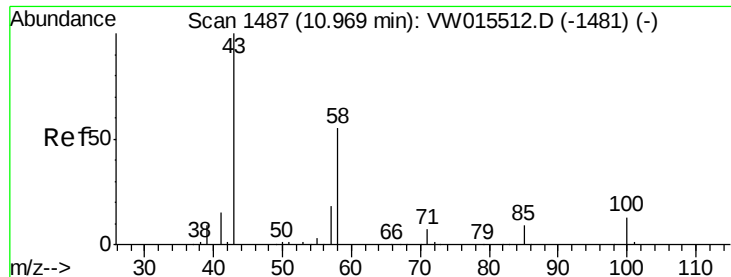
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 52.561 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 43 Resp: 89808

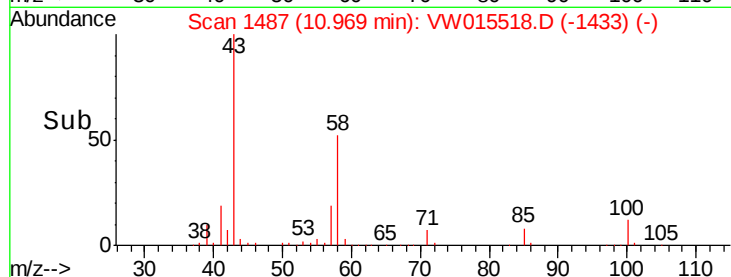
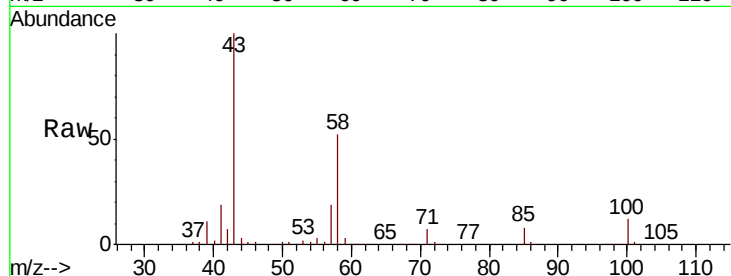
Ion Ratio Lower Upper

43 100

58 56.3 42.6 64.0

57 20.0 15.5 23.3

100 12.6 10.3 15.5

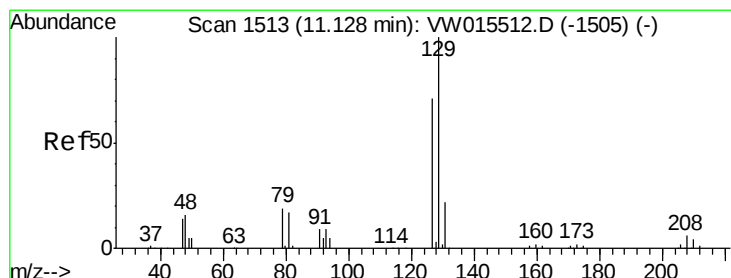
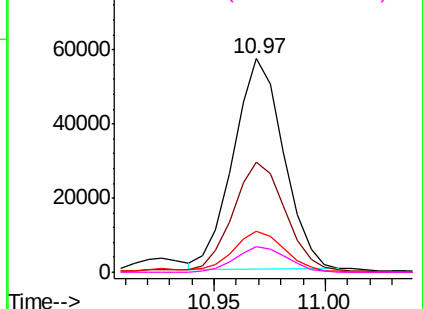


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 24.890 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW015518.D

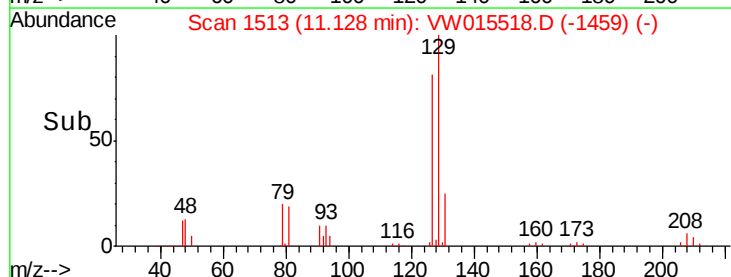
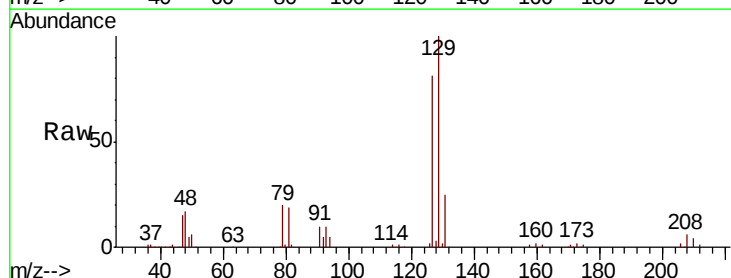
Acq: 28 May 2020 15:16

Tgt Ion: 129 Resp: 91360

Ion Ratio Lower Upper

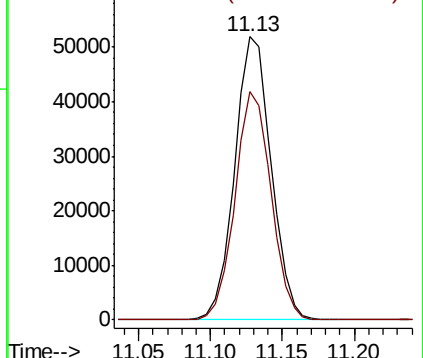
129 100

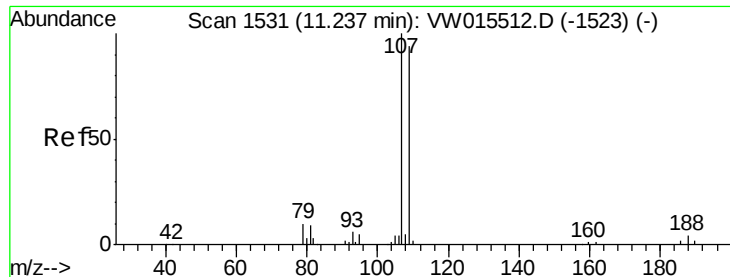
127 80.8 53.0 98.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

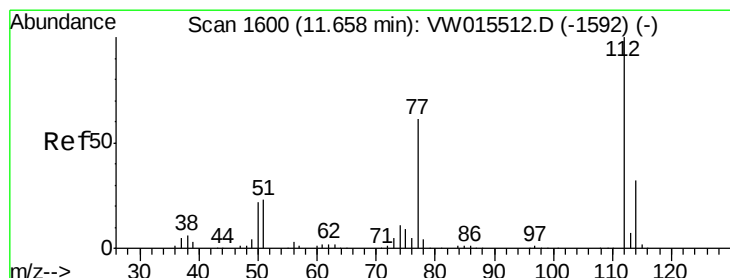
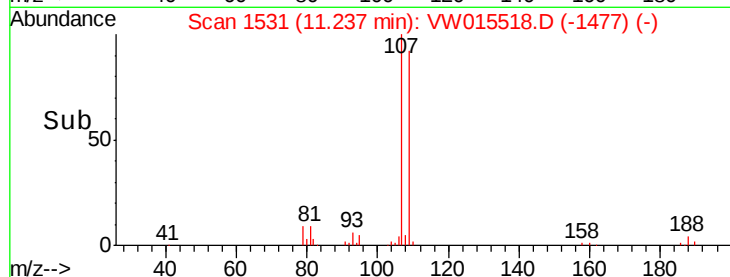
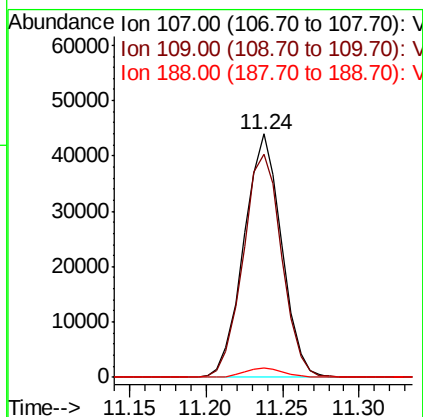
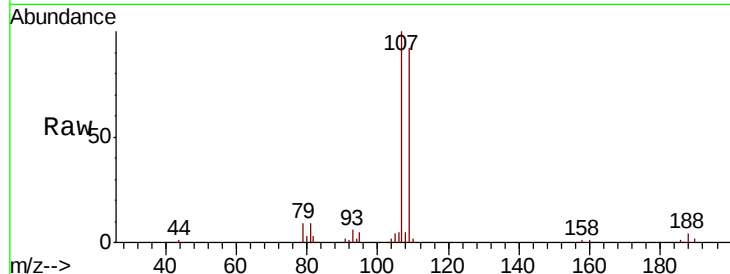




#51  
 1,2-Dibromoethane  
 Concen: 25.976 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

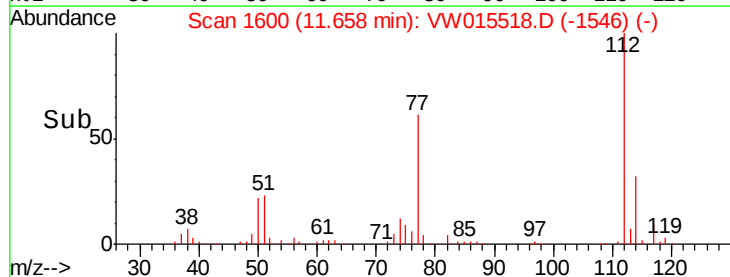
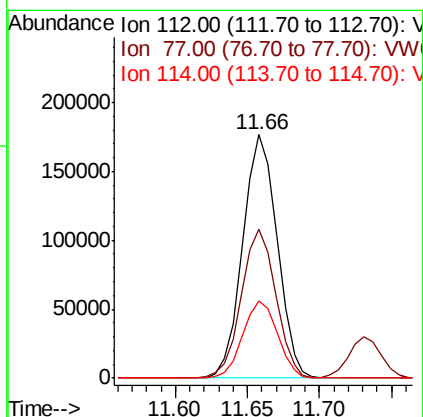
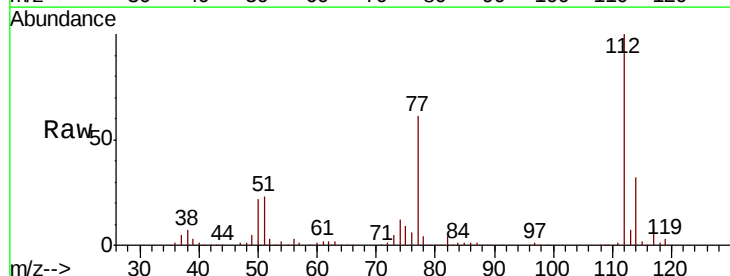
Instrument :  
 MSVOA\_W  
 ClientSampleId :

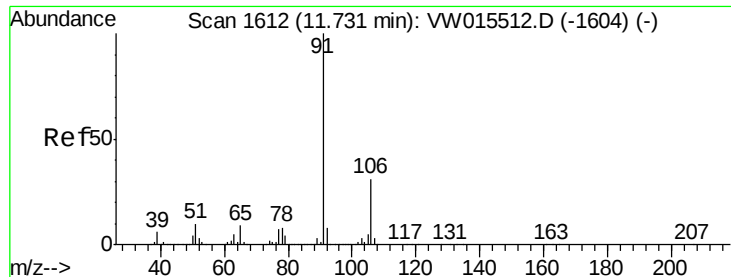
Tot Ion:107 Resp: 75342  
 Ion Ratio Lower Upper  
 107 100  
 109 91.8 64.6 120.0  
 188 3.8 2.8 4.2



#52  
 Chlorobenzene  
 Concen: 24.427 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Tgt Ion:112 Resp: 292728  
 Ion Ratio Lower Upper  
 112 100  
 77 60.9 49.7 74.5  
 114 31.8 21.8 40.6

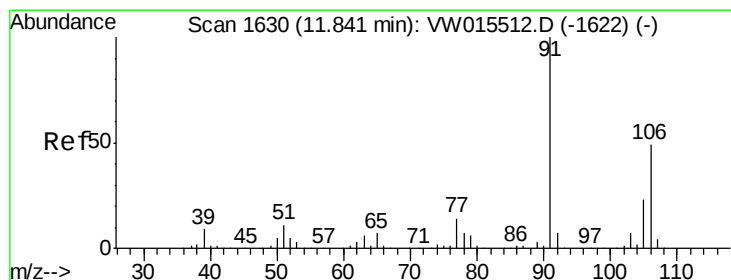
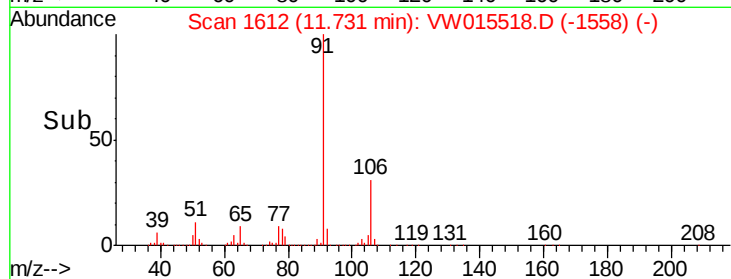
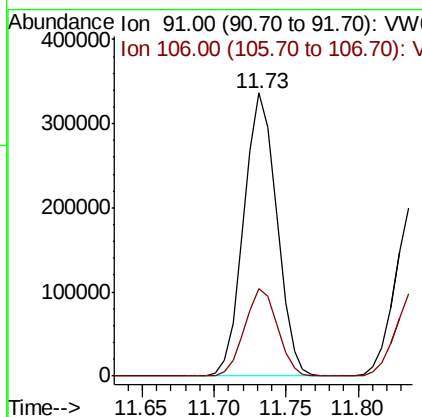
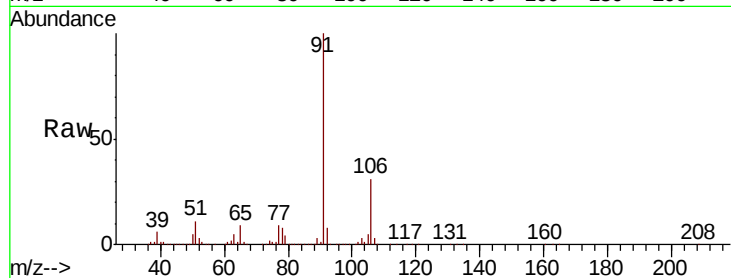




#53  
Ethylbenzene  
Concen: 24.419 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

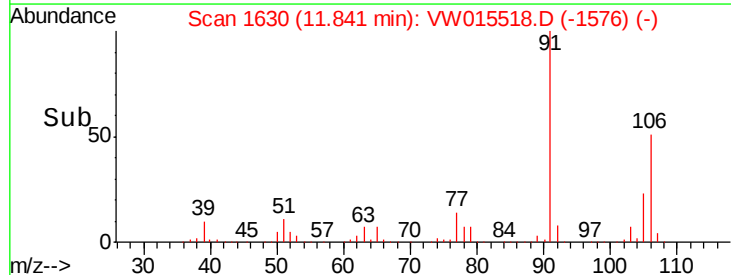
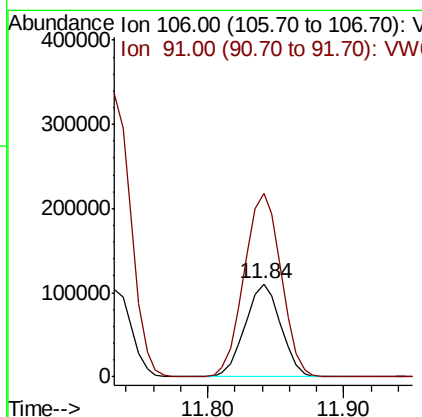
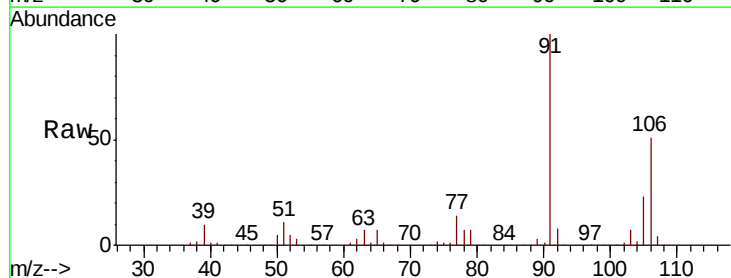
Instrument :  
MSVOA\_W  
ClientSampled :

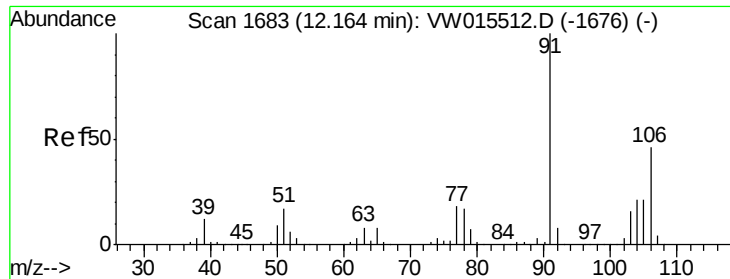
Tot Ion: 91 Resp: 535695  
Ion Ratio Lower Upper  
91 100  
106 30.8 21.3 39.6



#54  
m,p-Xylene  
Concen: 24.714 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW015518.D  
Acq: 28 May 2020 15:16

Tgt Ion: 106 Resp: 203449  
Ion Ratio Lower Upper  
106 100  
91 197.0 142.6 264.8





#55

o-xylene

Concen: 24.539 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

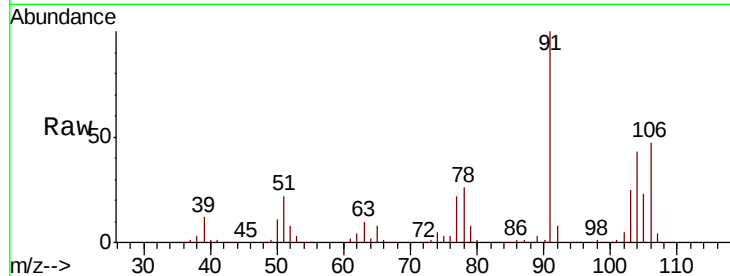
ClientSampled :

Tot Ion:106 Resp: 191746

Ion Ratio Lower Upper

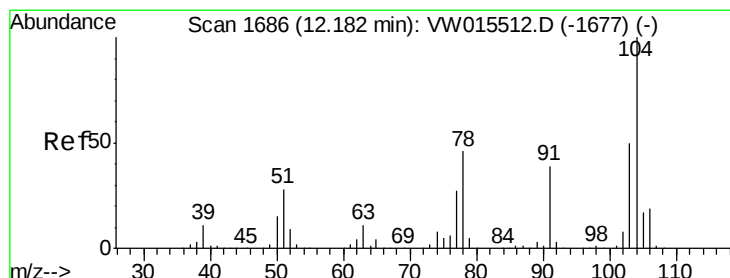
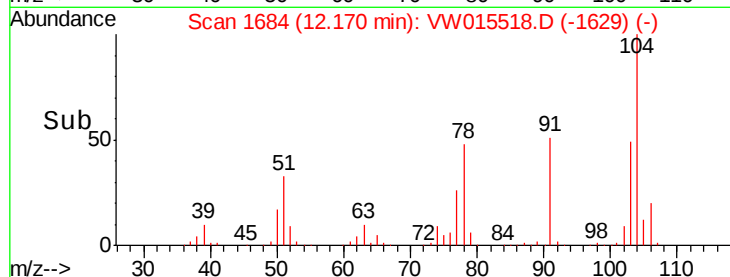
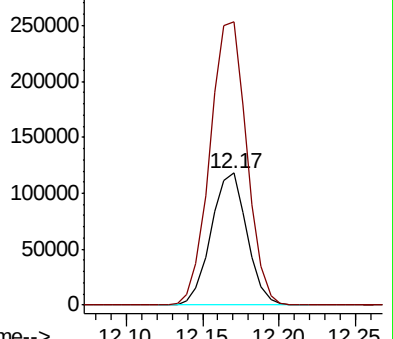
106 100

91 214.7 149.0 276.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.882 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW015518.D

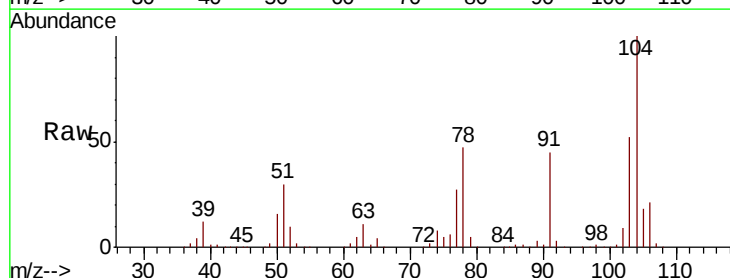
Acq: 28 May 2020 15:16

Tgt Ion:104 Resp: 332208

Ion Ratio Lower Upper

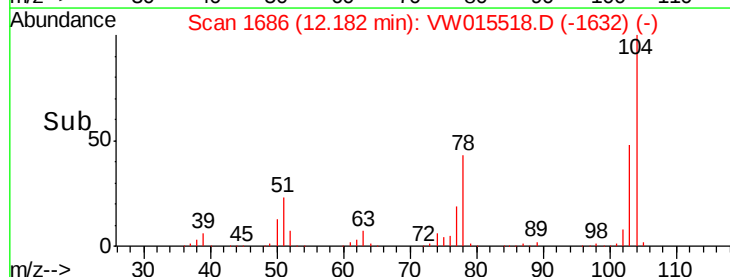
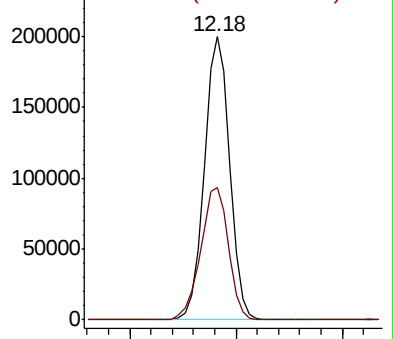
104 100

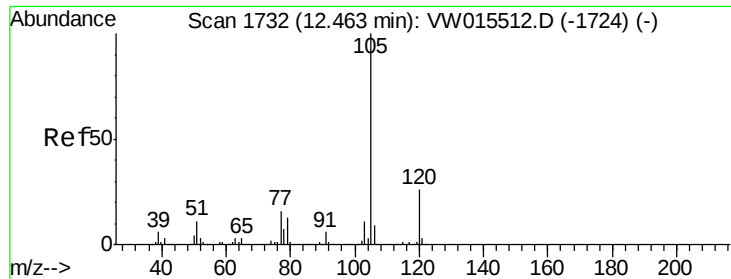
78 46.8 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.684 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015518.D

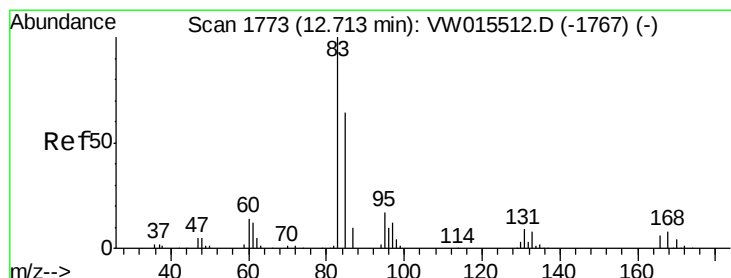
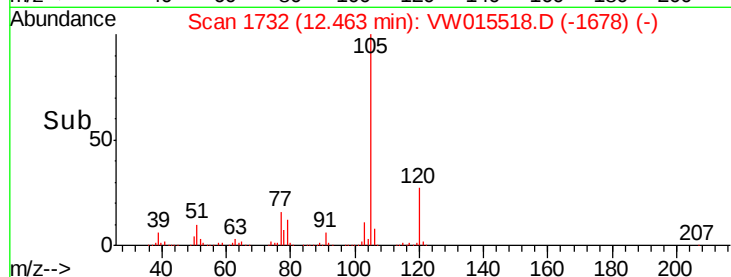
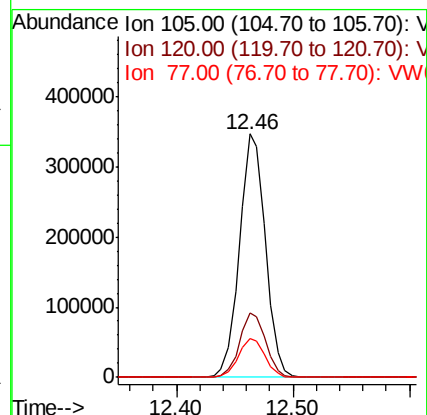
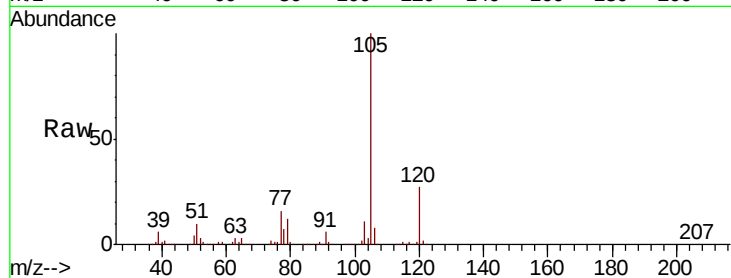
Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 537278 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.7  | 21.0  | 31.4   |
| 77       | 16.2  | 13.0  | 19.6   |



#58

1,1,2,2-Tetrachloroethane

Concen: 26.722 ug/L

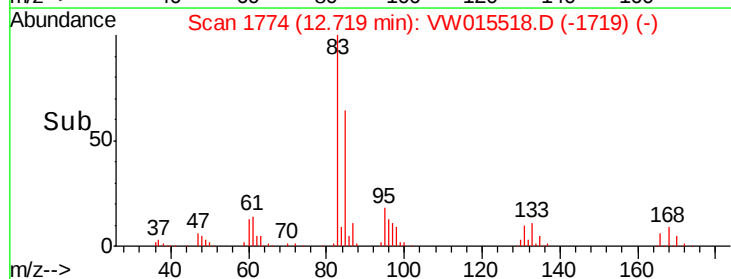
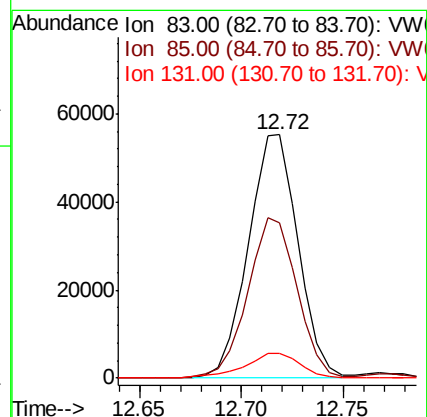
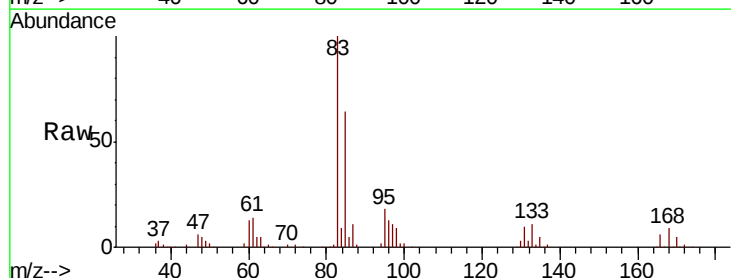
RT: 12.72 min Scan# 1774

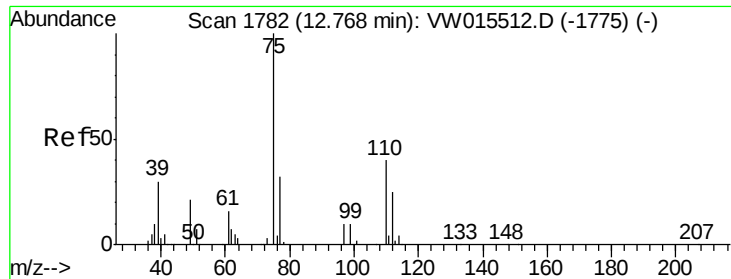
Delta R.T. 0.01 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 93466 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.7  | 44.7  | 82.9  |
| 131      | 10.1  | 9.1   | 13.7  |





#59

1,2,3-Trichloropropane

Concen: 26.741 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

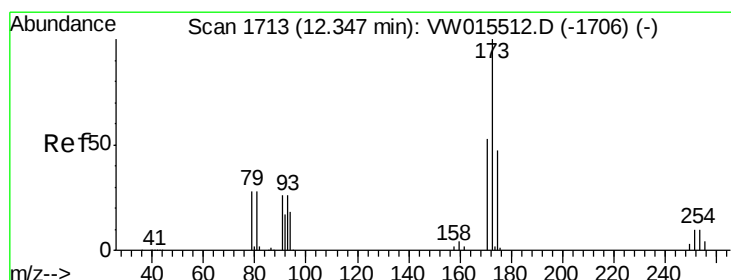
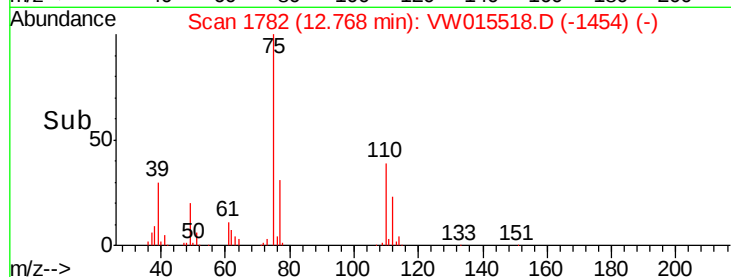
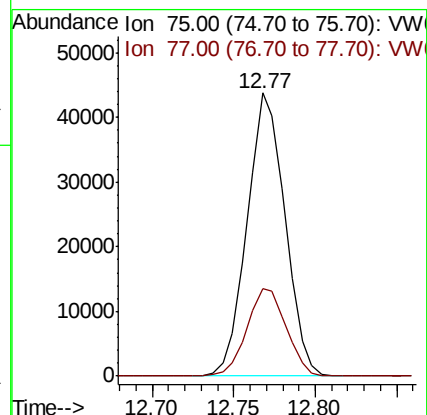
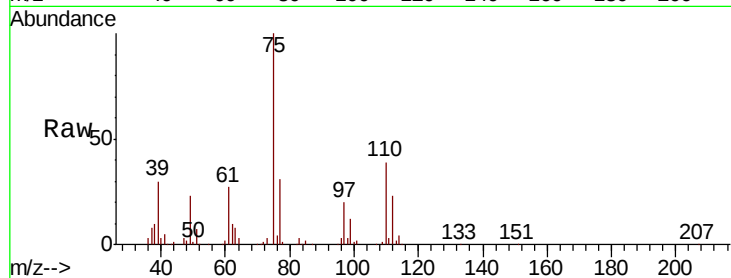
ClientSampleId :

Tot Ion: 75 Resp: 70920

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#62

Bromoform

Concen: 23.610 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

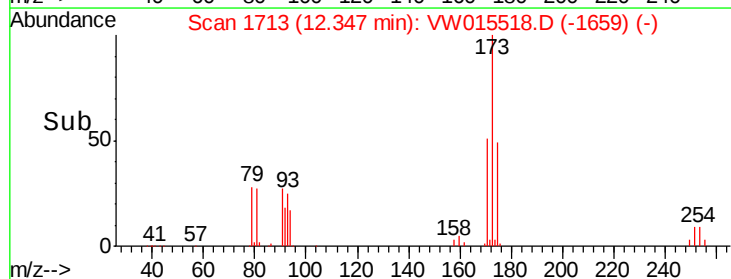
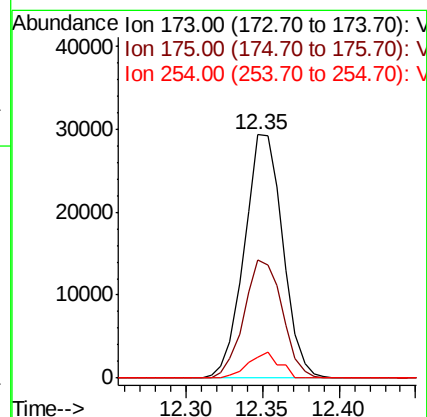
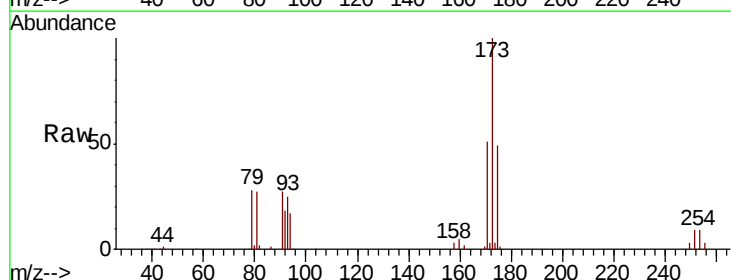
Tgt Ion: 173 Resp: 51375

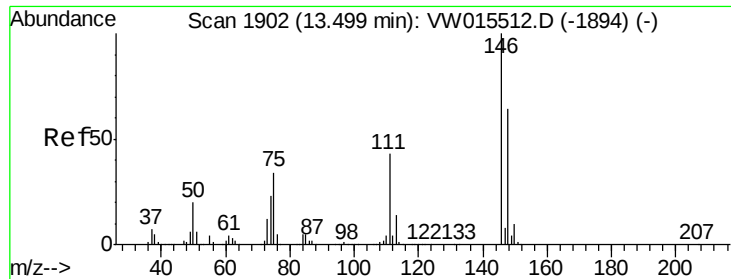
Ion Ratio Lower Upper

173 100

175 48.2 37.9 56.9

254 8.5 6.8 10.2

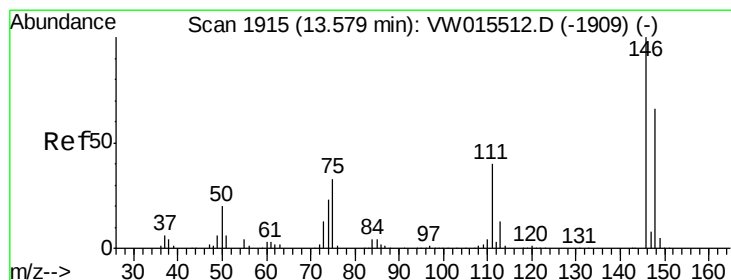
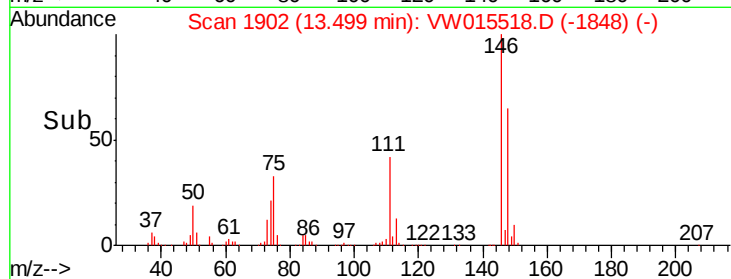
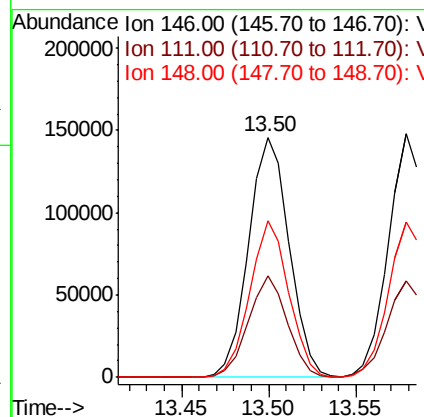
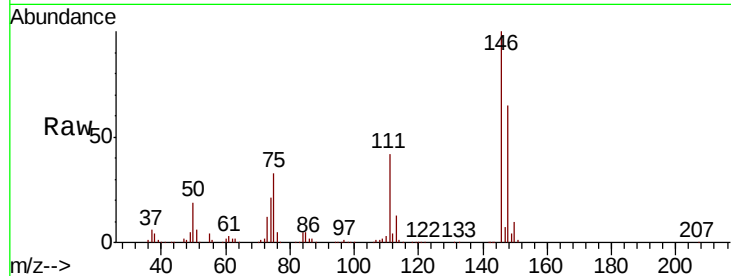




#63  
 1,3-Dichlorobenzene  
 Concen: 24.541 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

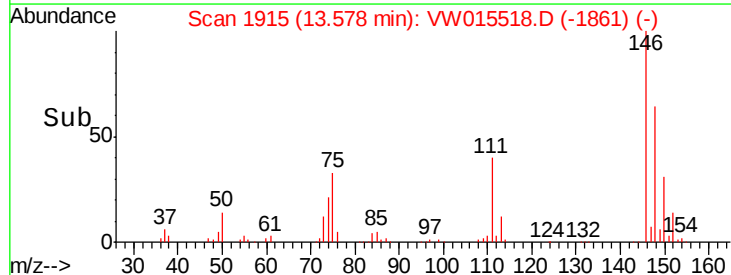
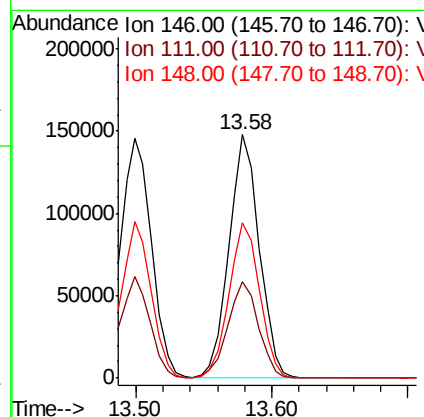
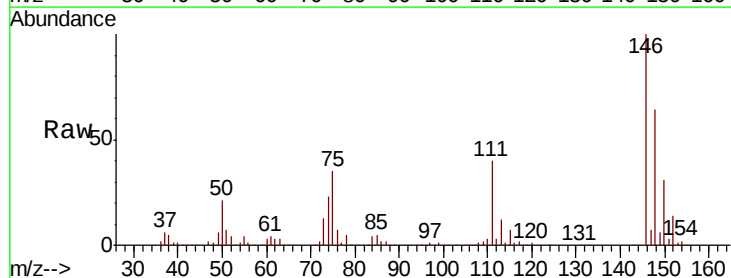
Instrument :  
 MSVOA\_W  
 ClientSampleId :

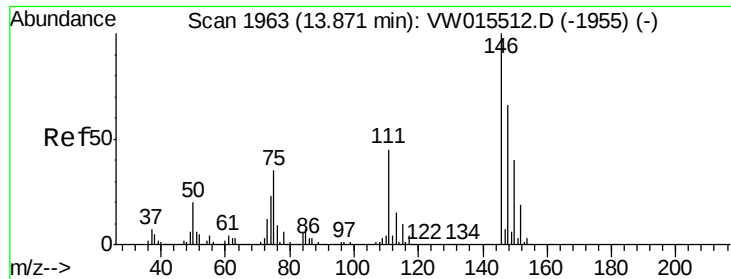
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.2  | 29.3  | 54.5  |
| 148     | 65.3  | 42.5  | 78.9  |



#64  
 1,4-Dichlorobenzene  
 Concen: 24.354 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.6  | 28.1  | 52.1  |
| 148     | 63.8  | 43.3  | 80.3  |

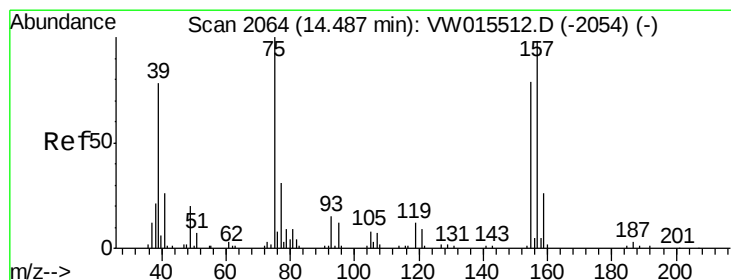
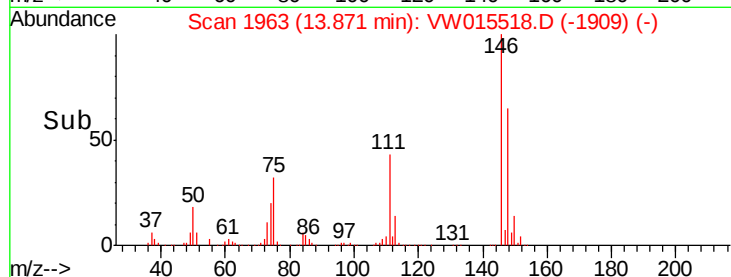
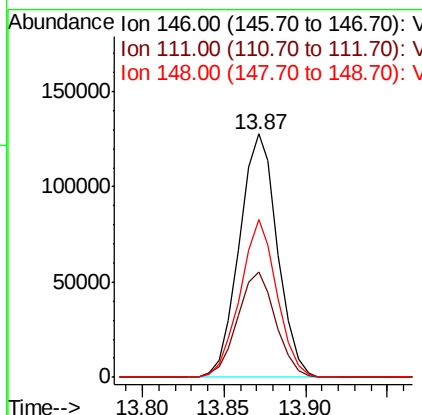
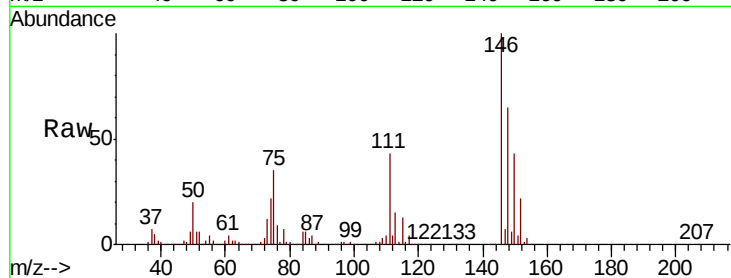




#65  
 1,2-Dichlorobenzene  
 Concen: 24.945 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

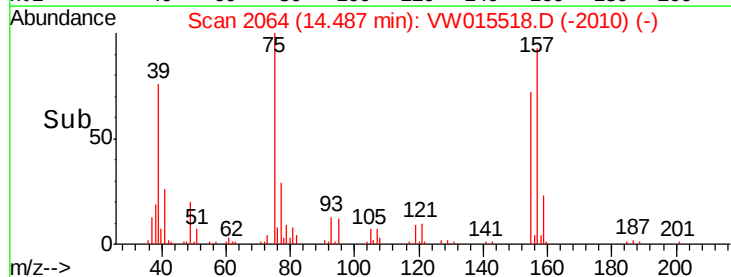
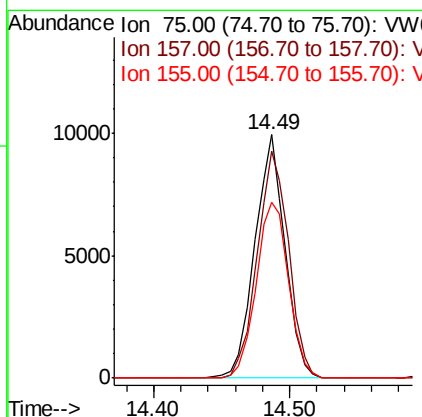
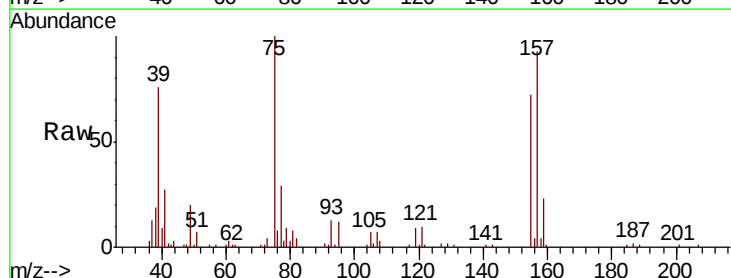
Instrument :  
 MSVOA\_W  
 ClientSampleId :

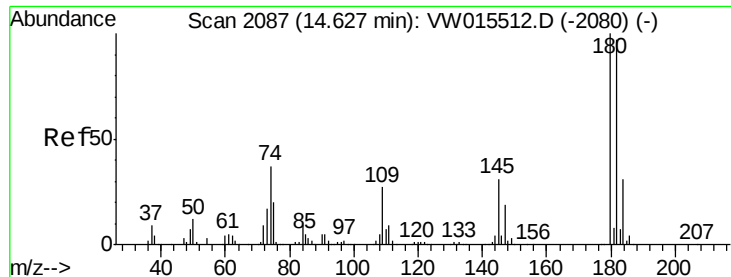
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.1  | 34.9  | 52.3  |
| 148     | 64.9  | 51.8  | 77.8  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 24.421 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 157     | 93.3  | 87.4  | 131.0 |
| 155     | 72.2  | 64.6  | 96.8  |

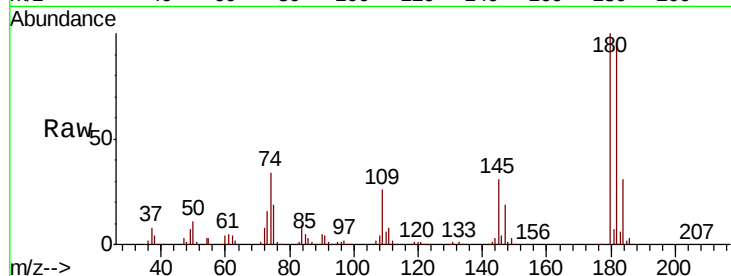




#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.101 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.3  | 76.6  | 114.8 |
| 184     | 30.8  | 24.4  | 36.6  |
| 145     | 29.9  | 24.0  | 36.0  |



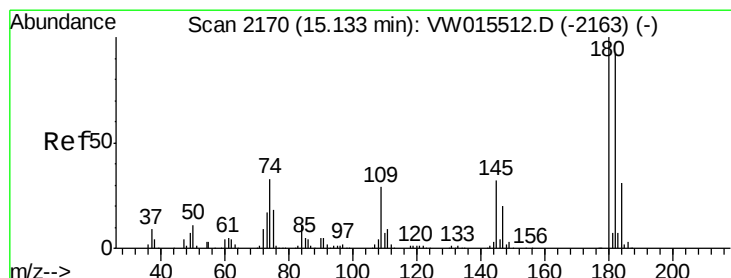
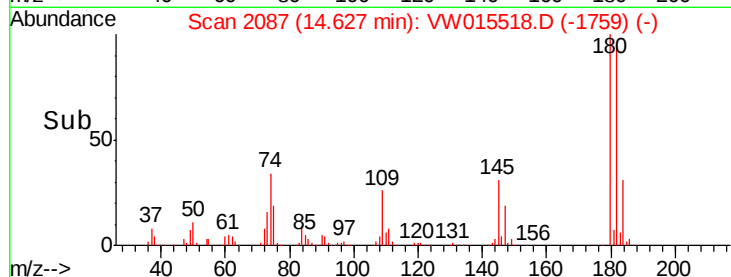
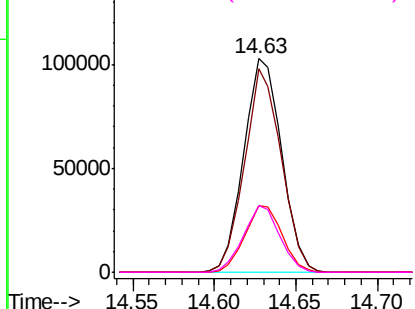
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

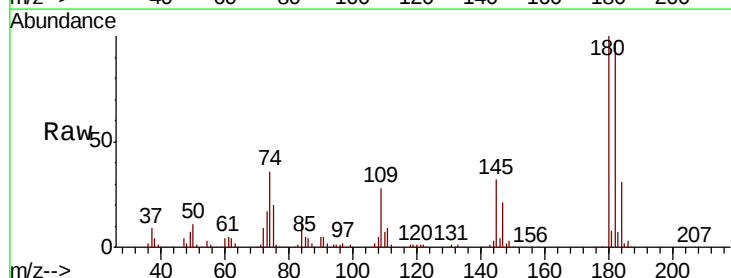
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 25.008 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW015518.D  
 Acq: 28 May 2020 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.7  | 76.1  | 114.1 |
| 145     | 31.1  | 25.2  | 37.8  |

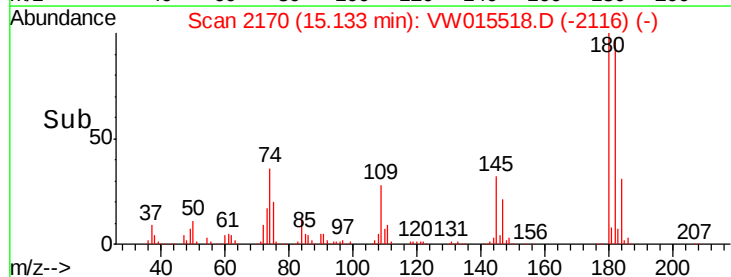
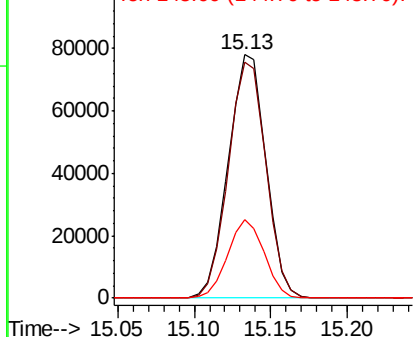


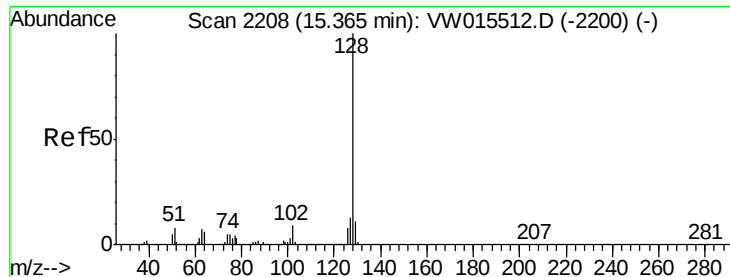
Abundance

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: 25.711 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

Instrument :

MSVOA\_W

ClientSampleId :

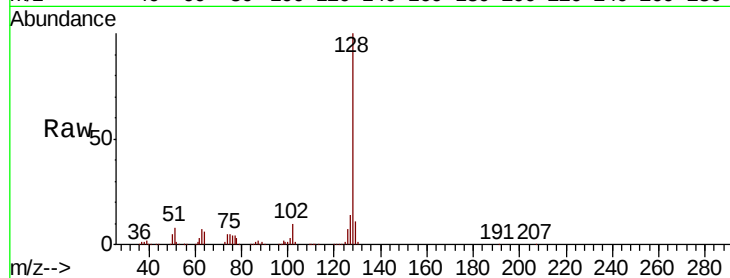
Tot Ion:128 Resp: 248777

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

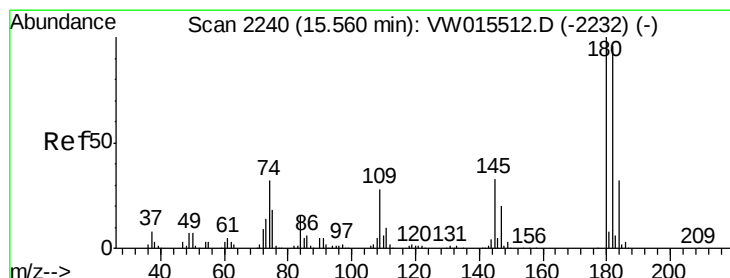
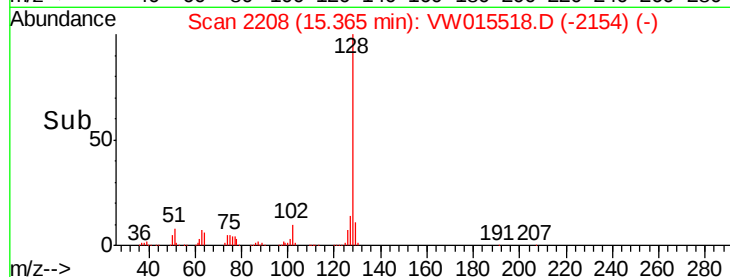
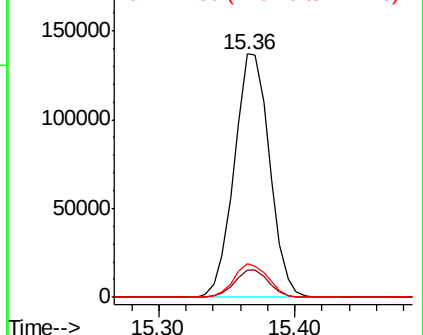
127 13.5 10.6 15.8



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: 25.068 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW015518.D

Acq: 28 May 2020 15:16

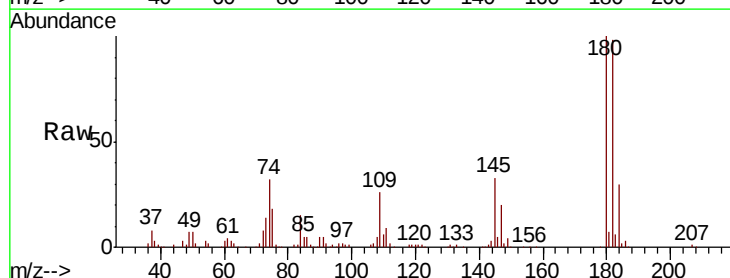
Tgt Ion:180 Resp: 113644

Ion Ratio Lower Upper

180 100

182 97.0 75.4 113.2

145 33.9 26.7 40.1



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

