

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061920\  
 Data File : VW015638.D  
 Acq On : 19 Jun 2020 10:07  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jun 20 00:43:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM052620S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 19 07:30:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 327547   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 298143   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 150076   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 63663    | 21.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 84.84%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 78253    | 26.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 104.84% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 171166   | 23.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.60%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 54826    | 55.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.88% |
| 24) Chloroform-d               | 7.65   | 84    | 204507   | 27.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 108.00% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 110343   | 26.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 104.72% |
| 29) Benzene-d6                 | 8.27   | 84    | 374419   | 25.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.44% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 116858   | 26.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 105.20% |
| 37) Toluene-d8                 | 10.32  | 98    | 352359   | 24.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.16%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 45893    | 22.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.32%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 43932    | 57.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.22% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 93851    | 28.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 112.20% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 127991   | 25.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 67081    | 23.182 | ug/L  | 96     |
| 3) Chloromethane               | 2.22 | 50   | 67704    | 21.254 | ug/L  | 98     |
| 5) Vinyl chloride              | 2.37 | 62   | 113004   | 23.590 | ug/L  | 100    |
| 6) Bromomethane                | 2.79 | 94   | 72065    | 23.145 | ug/L  | 99     |
| 8) Chloroethane                | 2.93 | 64   | 71562    | 24.541 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 90760    | 26.623 | ug/L  | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 96813    | 23.944 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 91205    | 23.352 | ug/L  | 93     |
| 13) Acetone                    | 4.12 | 43   | 48604    | 64.155 | ug/L  | 100    |
| 14) Carbon disulfide           | 4.38 | 76   | 264025   | 20.264 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.68 | 43   | 37440    | 22.842 | ug/L  | 98     |
| 16) Methylene chloride         | 4.92 | 84   | 100508   | 25.002 | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 140592   | 22.684 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 99063    | 23.668 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 181670   | 24.131 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.17 | 43   | 56047    | 48.158 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 104966   | 24.040 | ug/L  | 99     |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

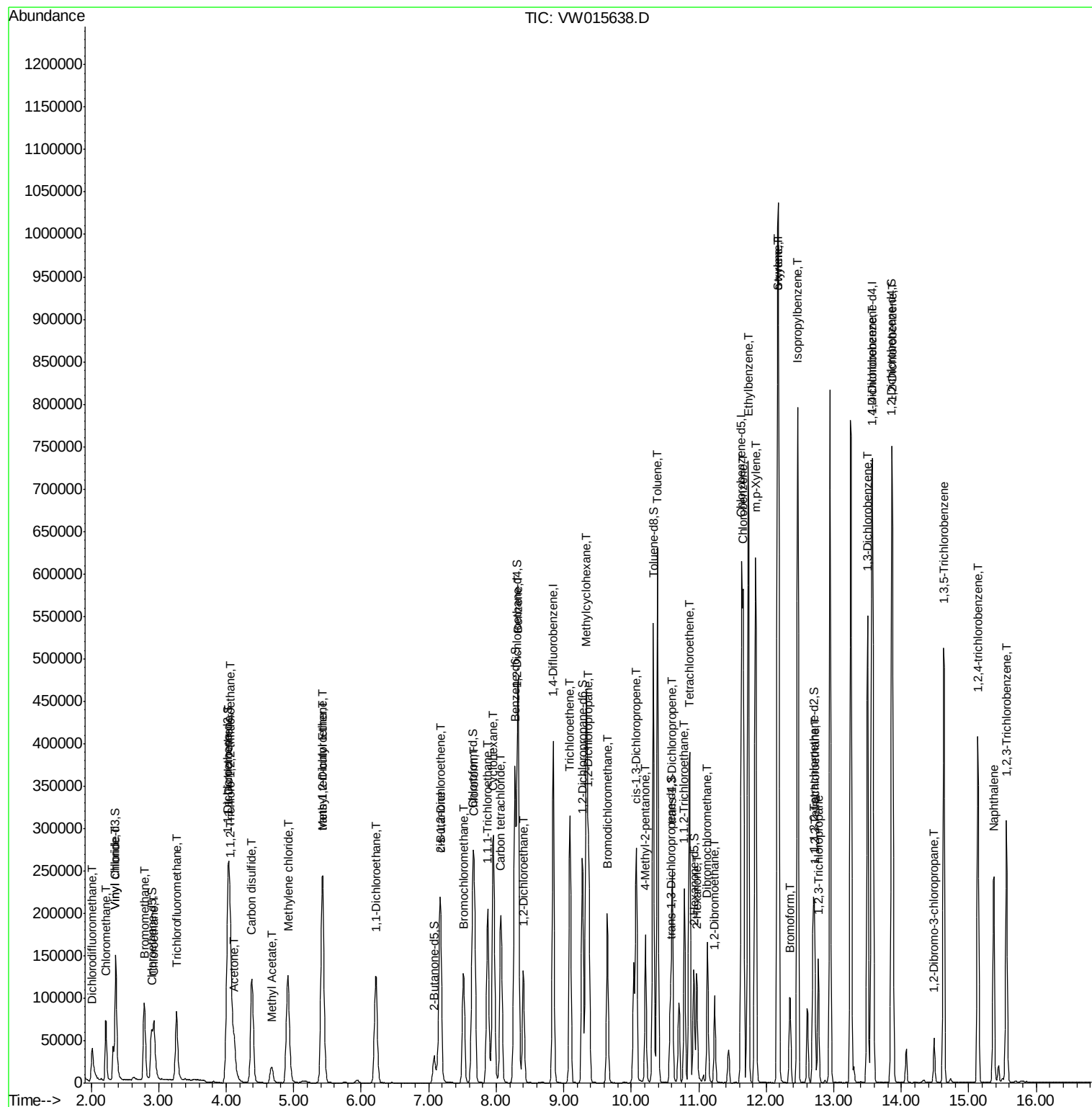
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 43891    | 23.311 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 186759   | 24.637 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 122120   | 23.813 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 163419   | 22.174 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 162099   | 24.303 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 147623   | 24.131 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 399783   | 23.978 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 107194   | 23.935 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.34  | 83   | 183359   | 22.955 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 98271    | 23.934 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 130148   | 23.727 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 152575   | 23.221 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 109170   | 45.359 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 439759   | 24.209 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 131726   | 23.037 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 68835    | 23.963 | ug/L  | 100      |
| 47) Tetrachloroethene           | 10.86 | 164  | 84830    | 23.895 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 79508    | 48.941 | ug/L  | 100      |
| 50) Dibromochloromethane        | 11.13 | 129  | 83997    | 24.068 | ug/L  | 100      |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 64561    | 23.411 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 279163   | 24.501 | ug/L  | 96       |
| 53) Ethylbenzene                | 11.73 | 91   | 506256   | 24.271 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 193624   | 24.738 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 183256   | 24.667 | ug/L  | 98       |
| 56) Styrene                     | 12.18 | 104  | 312138   | 24.588 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.47 | 105  | 514668   | 24.869 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 80889    | 24.323 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 60808    | 24.115 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 46285    | 22.135 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 217463   | 23.680 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 213962   | 23.778 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 195066   | 24.443 | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 12790    | 21.127 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 151852   | 23.884 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 122398   | 23.902 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 205939   | 22.149 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 105830   | 24.293 | ug/L  | 99       |

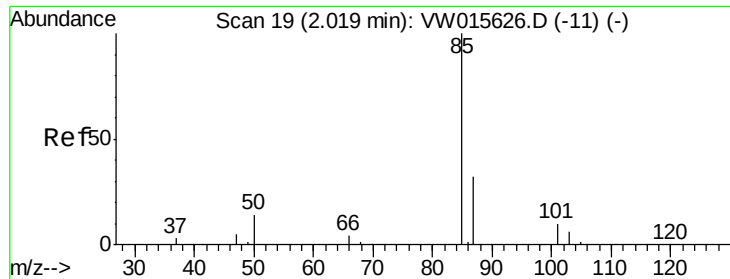
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.182 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.01 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

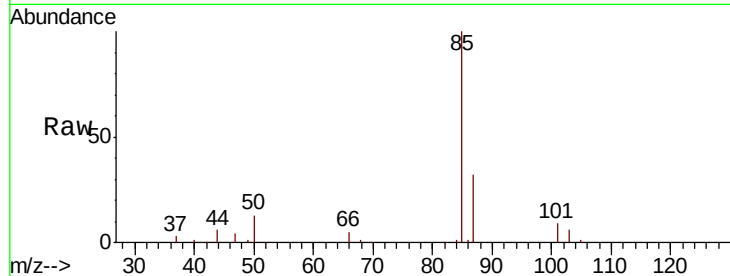
ClientSampleId :

Tot Ion: 85 Resp: 67081

Ion Ratio Lower Upper

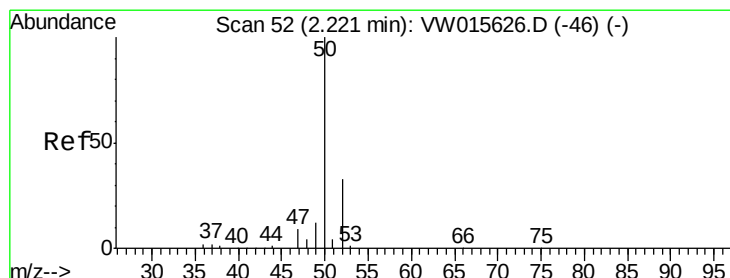
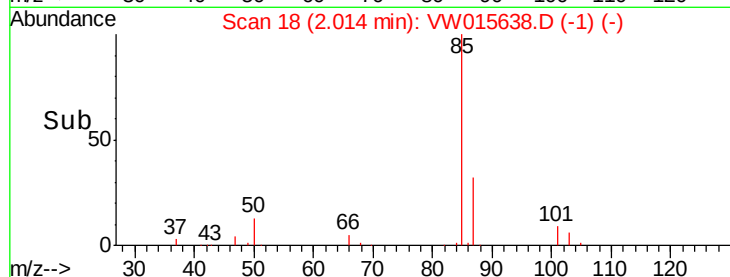
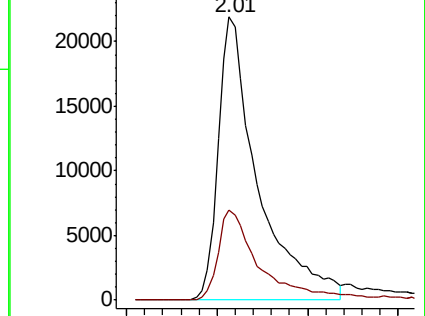
85 100

87 32.5 21.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.254 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW015638.D

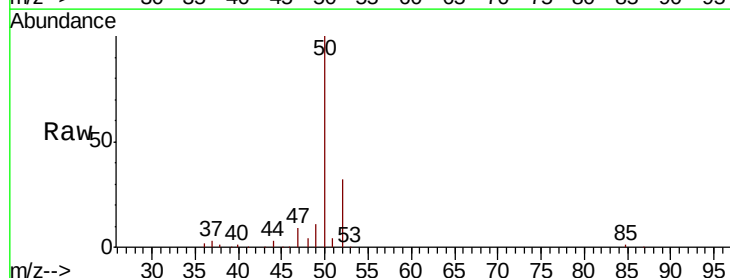
Acq: 19 Jun 2020 10:07

Tgt Ion: 50 Resp: 67704

Ion Ratio Lower Upper

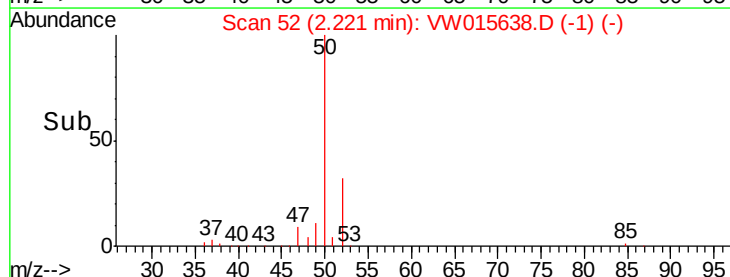
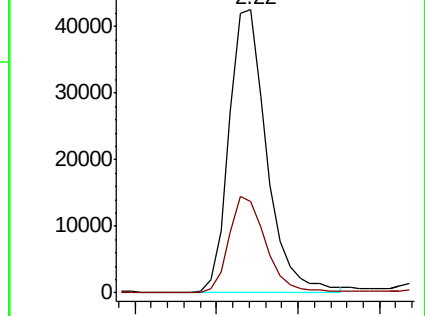
50 100

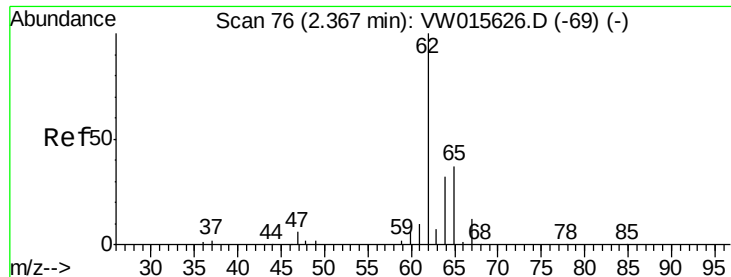
52 32.1 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 23.590 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

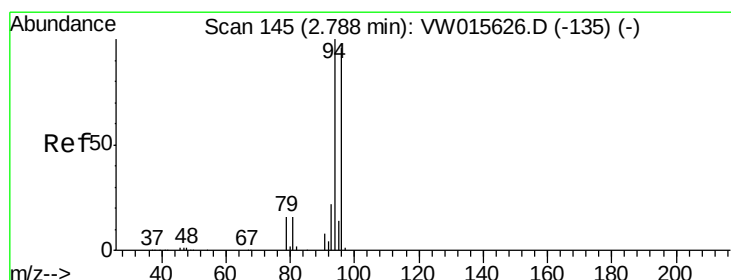
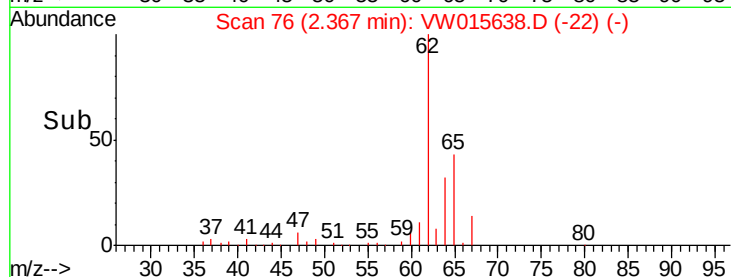
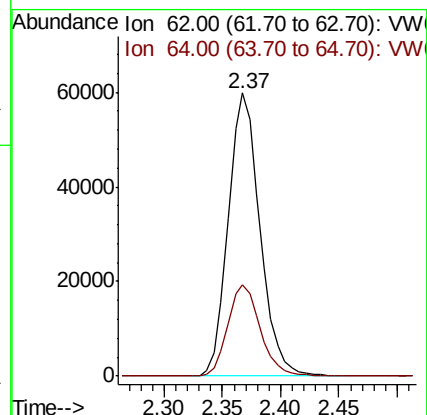
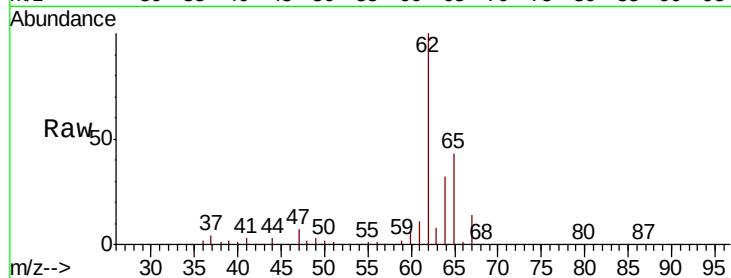
ClientSampled :

Tot Ion: 62 Resp: 113004

Ion Ratio Lower Upper

62 100

64 32.3 22.6 42.0



#6

Bromomethane

Concen: 23.145 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW015638.D

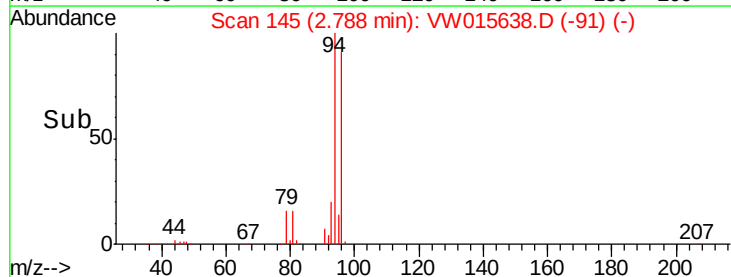
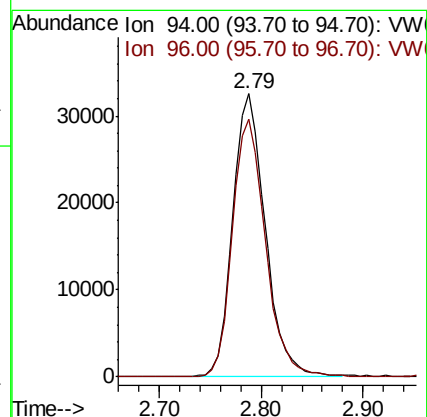
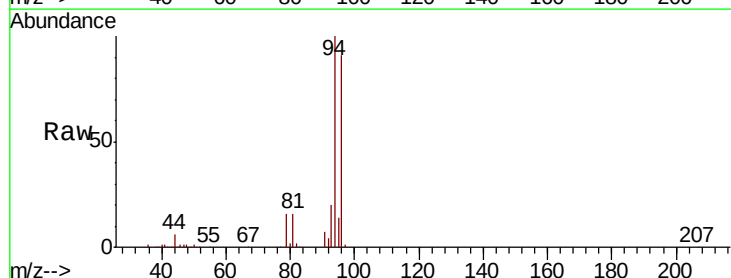
Acq: 19 Jun 2020 10:07

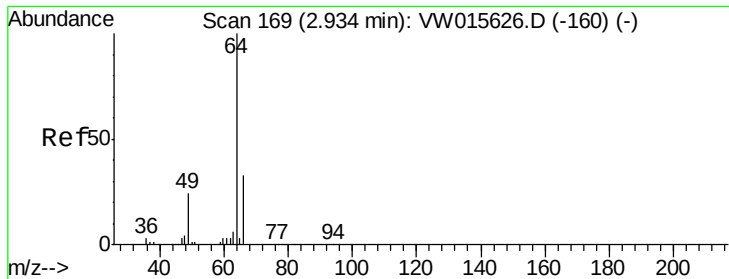
Tgt Ion: 94 Resp: 72065

Ion Ratio Lower Upper

94 100

96 92.3 9.3 177.5





#8

Chloroethane

Concen: 24.541 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

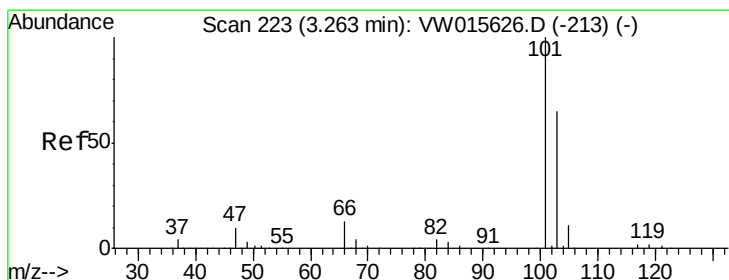
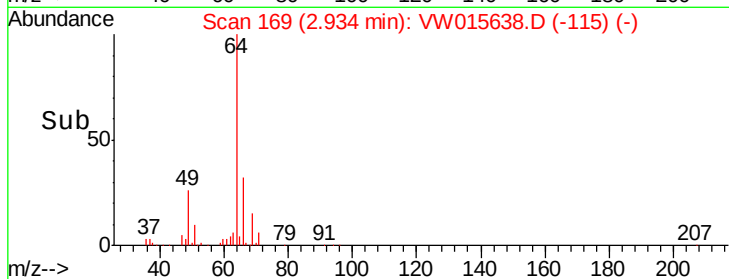
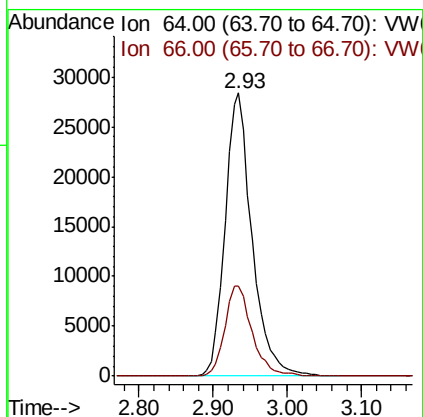
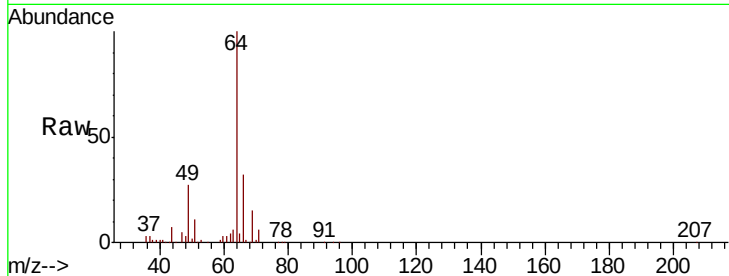
ClientSampleId :

Tot Ion: 64 Resp: 71562

Ion Ratio Lower Upper

64 100

66 31.8 22.0 40.8



#9

Trichlorofluoromethane

Concen: 26.623 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW015638.D

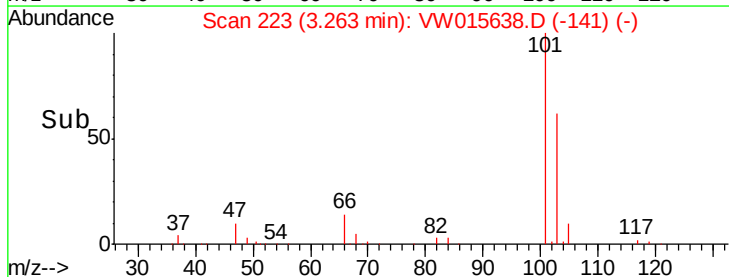
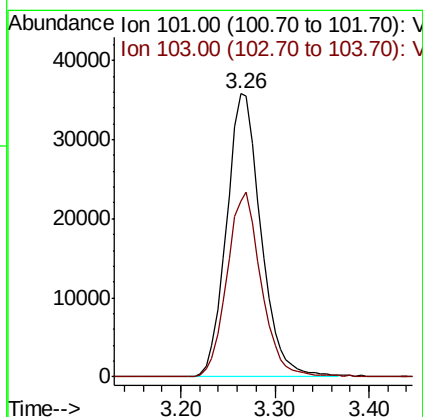
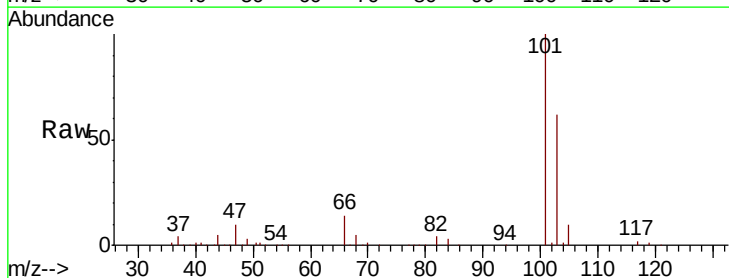
Acq: 19 Jun 2020 10:07

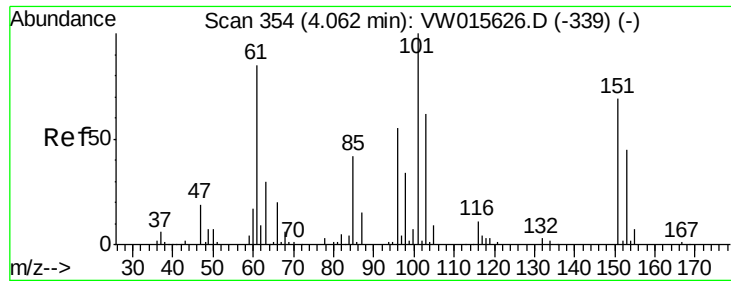
Tgt Ion: 101 Resp: 90760

Ion Ratio Lower Upper

101 100

103 64.7 46.6 86.6





#11

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

Concen: 23.944 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :  
MSVOA\_W  
ClientSampleId :

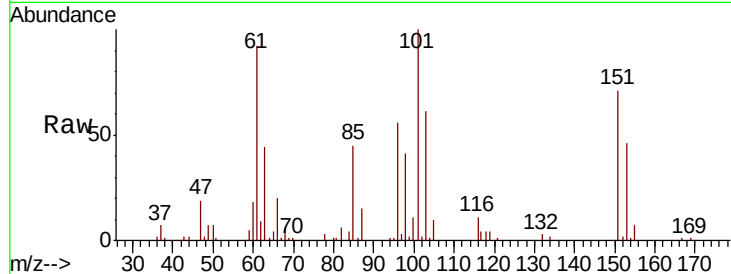
Tot Ion:101 Resp: 96813

Ion Ratio Lower Upper

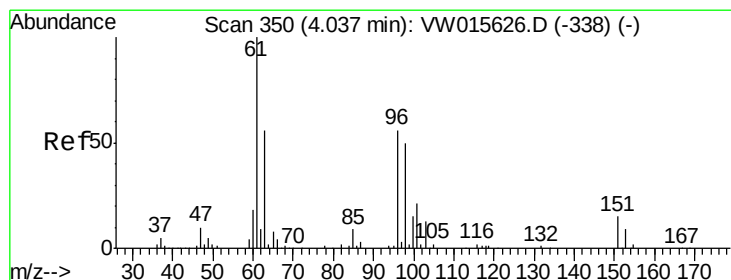
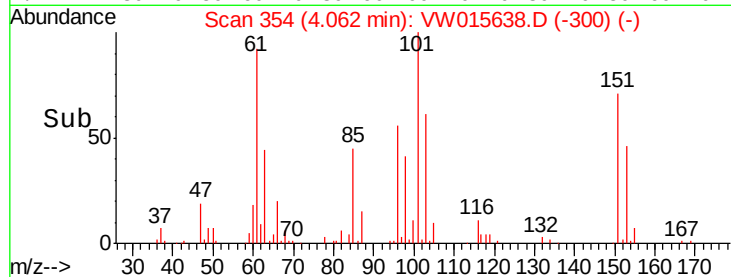
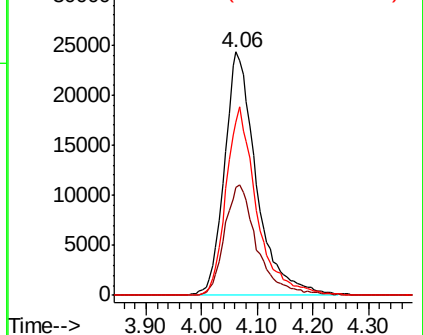
101 100

85 45.3 35.1 52.7

151 73.8 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: 23.352 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

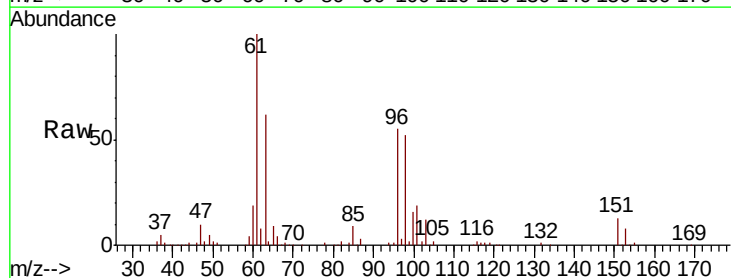
Tgt Ion: 96 Resp: 91205

Ion Ratio Lower Upper

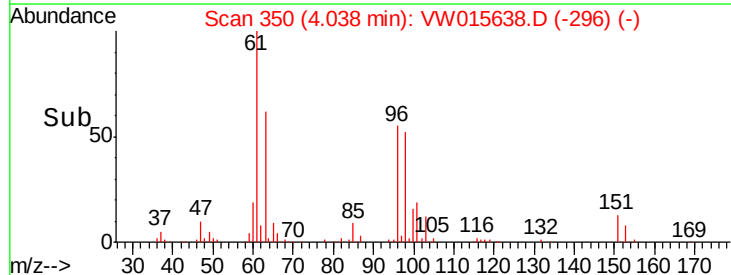
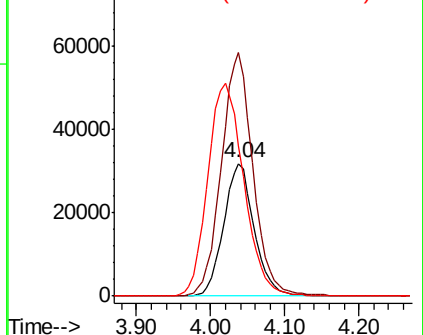
96 100

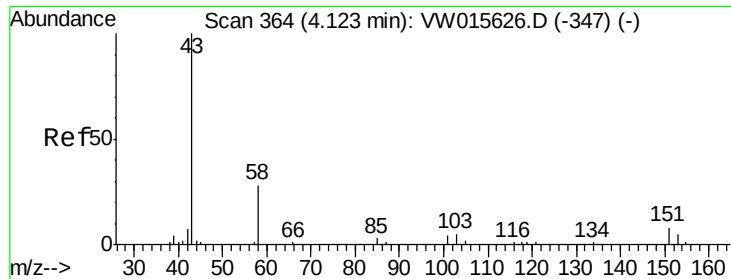
61 183.4 127.7 237.1

63 113.3 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: 64.155 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

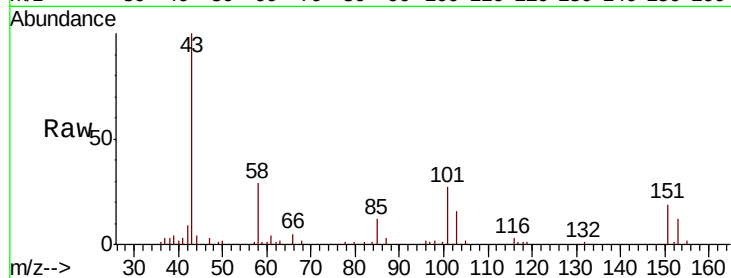
ClientSampled :

Tot Ion: 43 Resp: 48604

Ion Ratio Lower Upper

43 100

58 28.6 0.0 56.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

20000

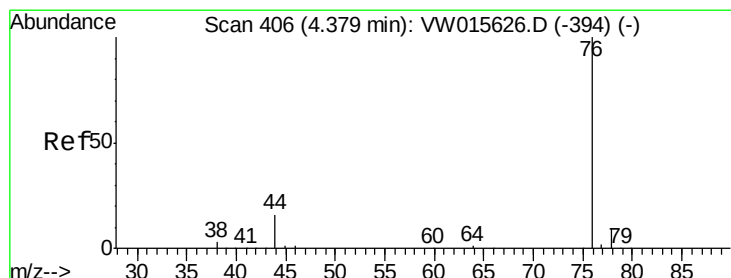
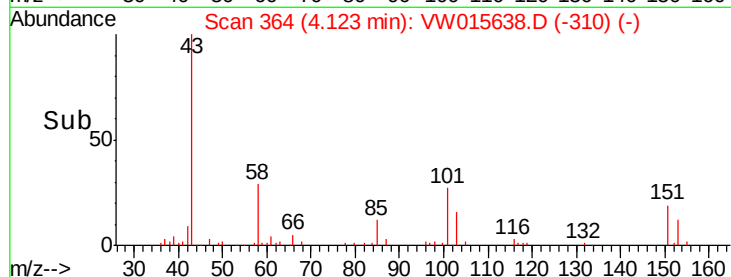
15000

10000

5000

0

Time--> 4.00 4.05 4.10 4.15 4.20



#14

Carbon disulfide

Concen: 20.264 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW015638.D

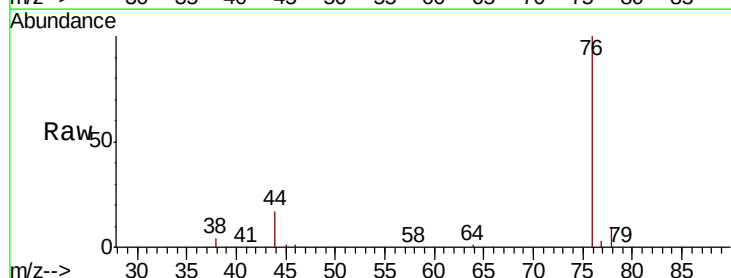
Acq: 19 Jun 2020 10:07

Tgt Ion: 76 Resp: 264025

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

100000

80000

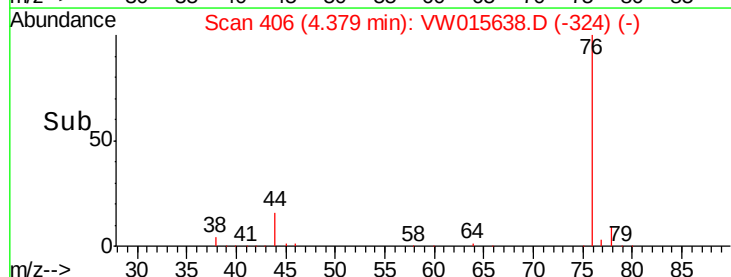
60000

40000

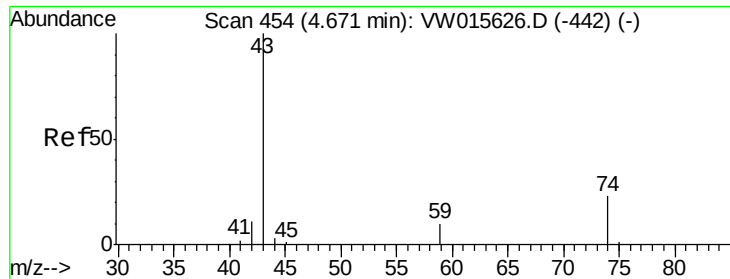
20000

0

Time--> 4.30 4.40 4.50



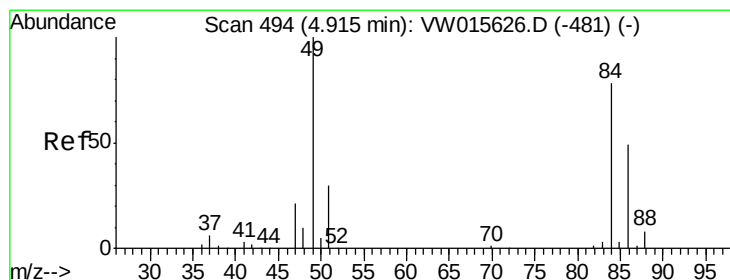
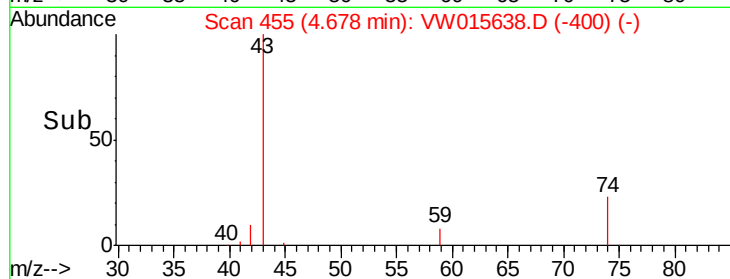
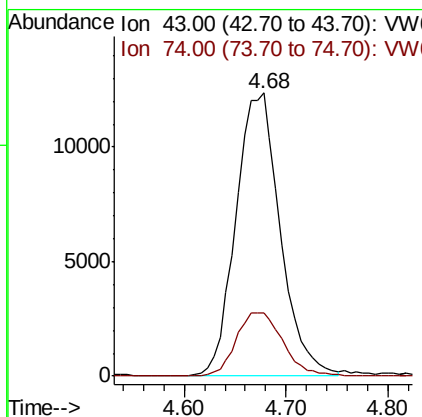
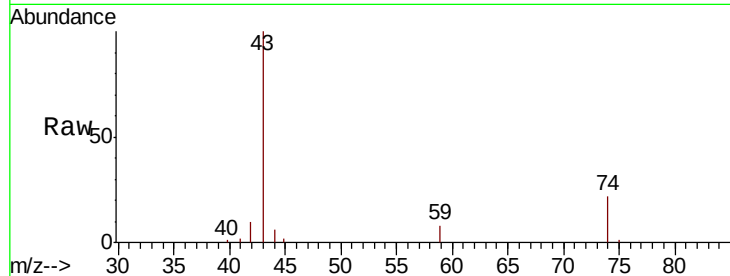




#15  
Methyl Acetate  
Concen: 22.842 ug/L  
RT: 4.68 min Scan# 455  
Delta R.T. 0.01 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

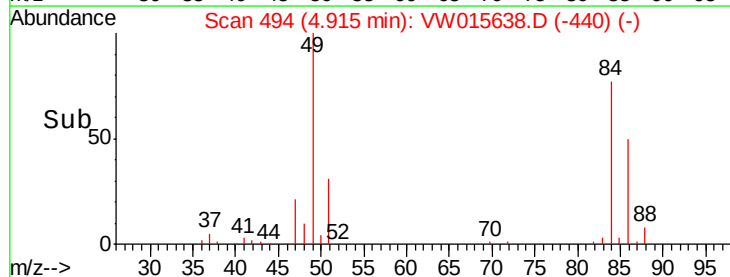
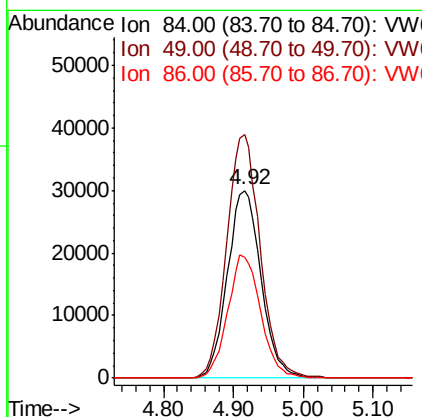
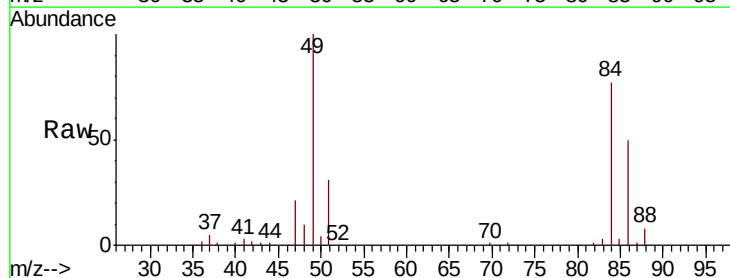
Instrument :  
MSVOA\_W  
ClientSampled :

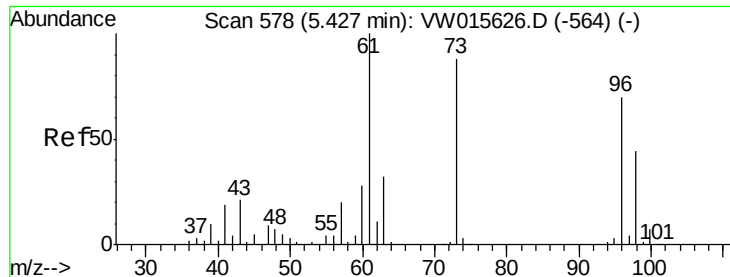
Tot Ion: 43 Resp: 37440  
Ion Ratio Lower Upper  
43 100  
74 23.6 18.2 27.2



#16  
Methylene chloride  
Concen: 25.002 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion: 84 Resp: 100508  
Ion Ratio Lower Upper  
84 100  
49 129.6 93.0 172.8  
86 64.4 44.7 83.1

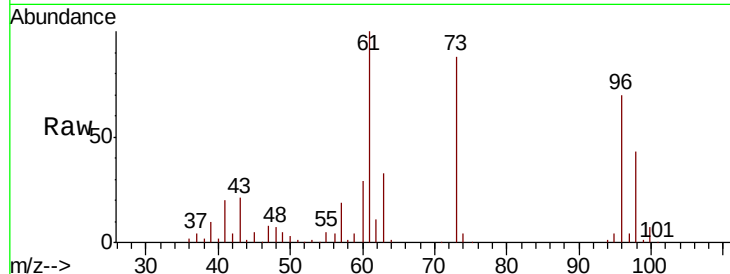




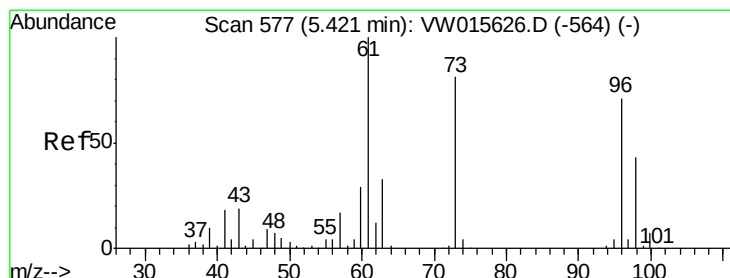
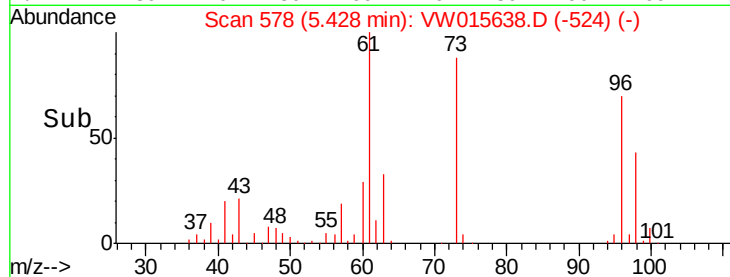
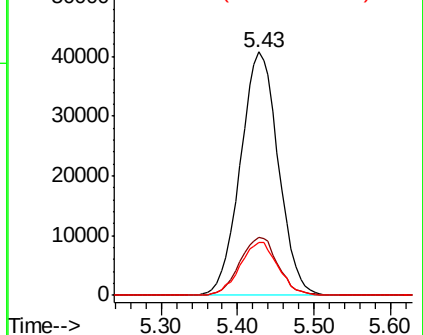
#17  
Methyl tert-butyl Ether  
Concen: 22.684 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 73 Resp: 140592  
Ion Ratio Lower Upper  
73 100  
43 24.0 19.6 29.4  
57 21.8 17.7 26.5

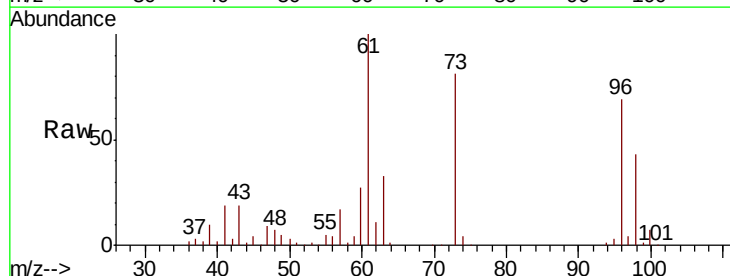


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

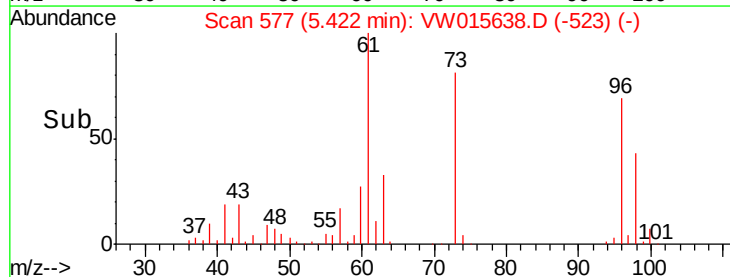
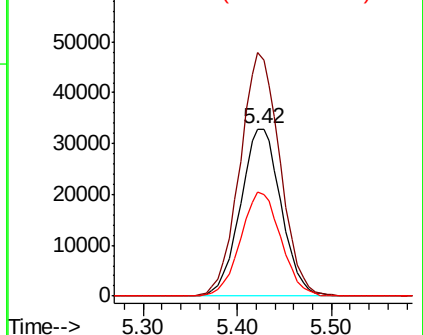


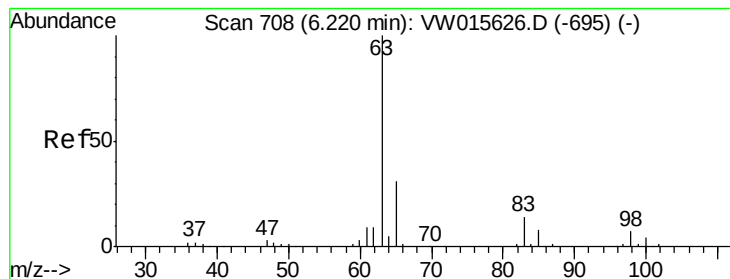
#18  
trans-1,2-Dichloroethene  
Concen: 23.668 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion: 96 Resp: 99063  
Ion Ratio Lower Upper  
96 100  
61 145.6 101.9 189.3  
98 61.9 44.9 83.5



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





#19

1,1-Dichloroethane

Concen: 24.131 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

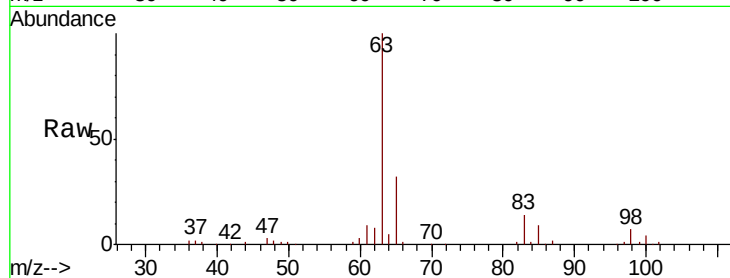
Tot Ion: 63 Resp: 181670

Ion Ratio Lower Upper

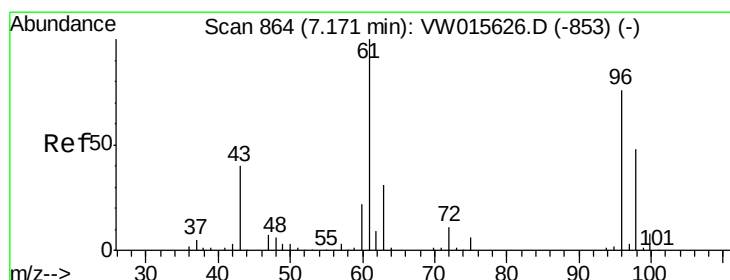
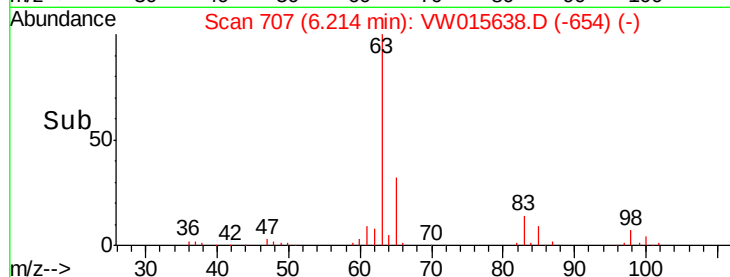
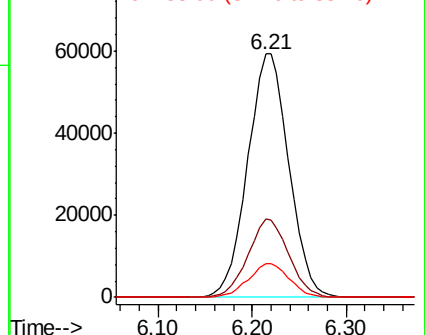
63 100

65 32.3 22.1 41.1

83 13.7 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: 48.158 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015638.D

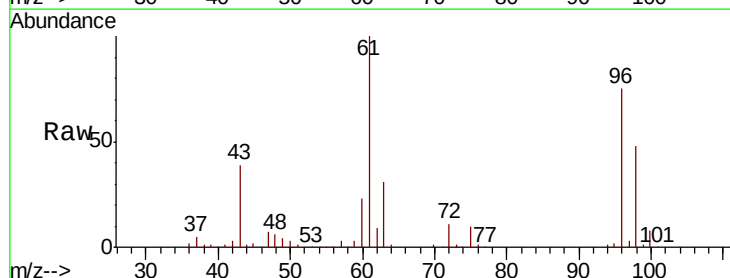
Acq: 19 Jun 2020 10:07

Tgt Ion: 43 Resp: 56047

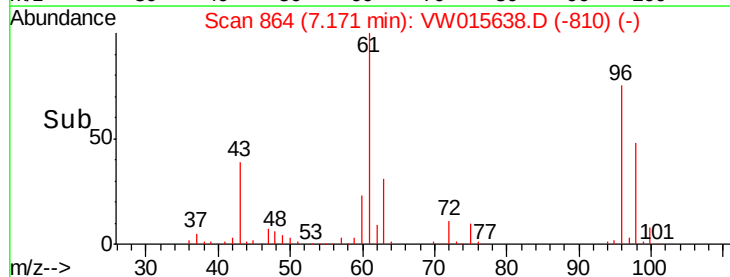
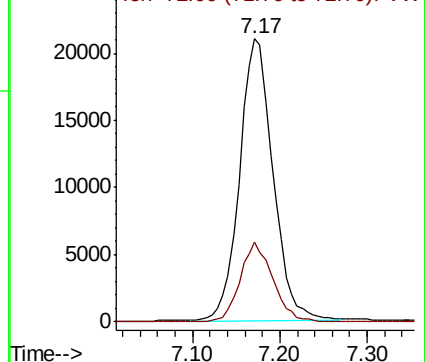
Ion Ratio Lower Upper

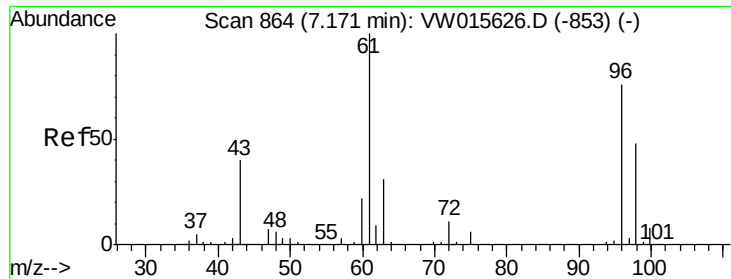
43 100

72 27.4 13.3 39.9



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



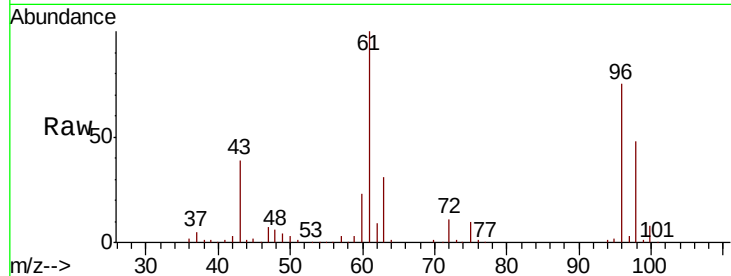


#22

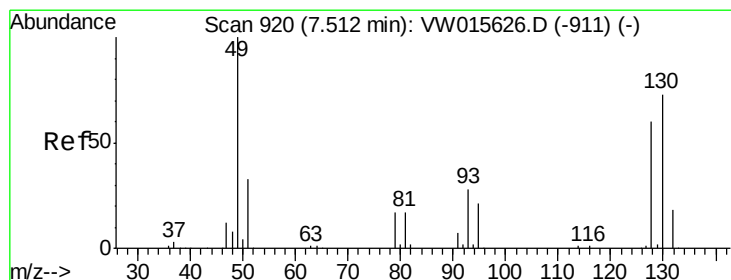
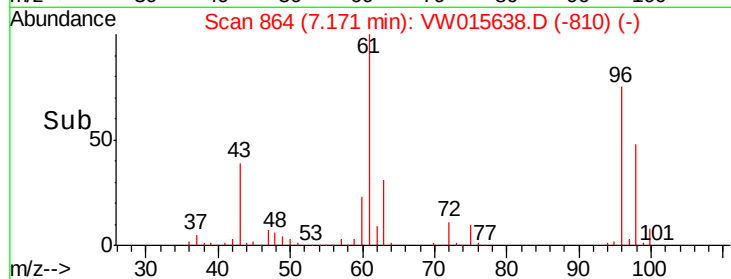
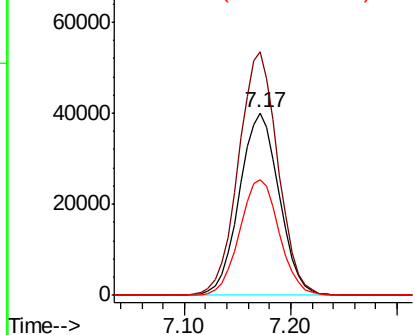
cis-1,2-Dichloroethene  
 Concen: 24.040 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 96 Resp: 104966  
 Ion Ratio Lower Upper  
 96 100  
 61 133.5 93.7 173.9  
 98 63.5 45.1 83.9



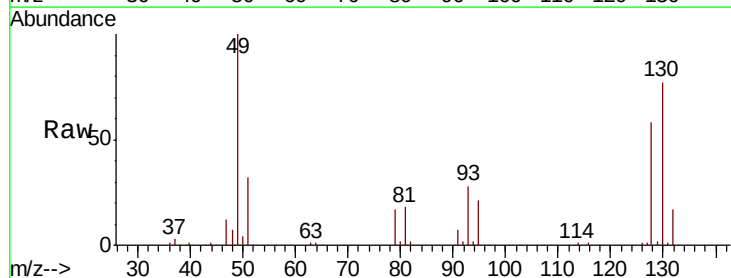
Abundance Ion 96.00 (95.70 to 96.70): VW  
 Ion 61.00 (60.70 to 61.70): VW  
 Ion 98.00 (97.70 to 98.70): VW



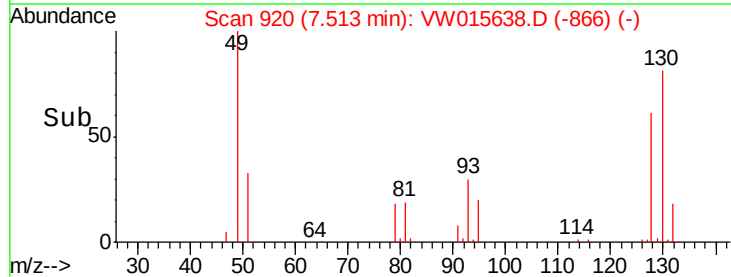
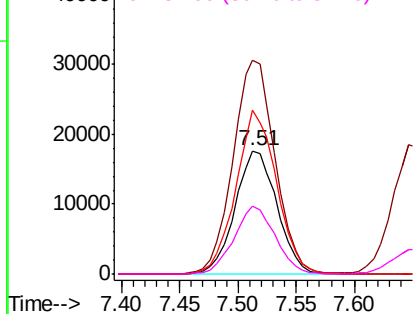
#23

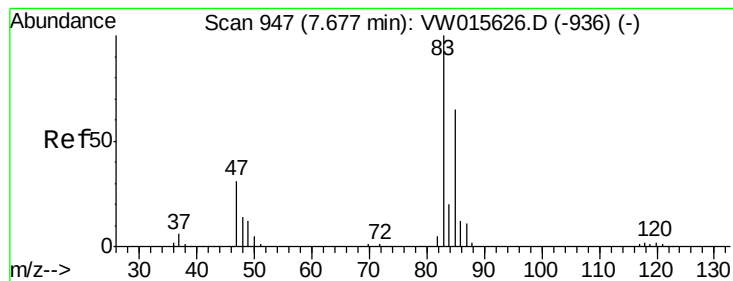
Bromochloromethane  
 Concen: 23.311 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Tgt Ion: 128 Resp: 43891  
 Ion Ratio Lower Upper  
 128 100  
 49 173.0 118.1 219.3  
 130 133.0 88.5 164.3  
 51 55.4 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: 24.637 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

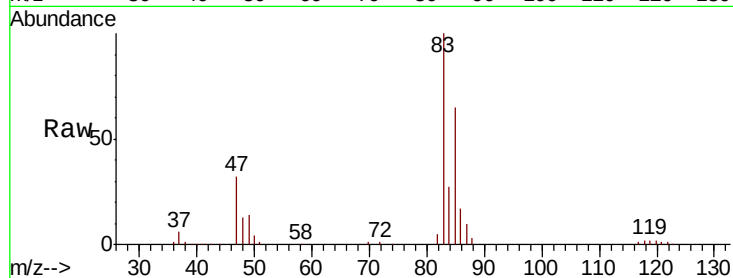
ClientSampled :

Tot Ion: 83 Resp: 186759

Ion Ratio Lower Upper

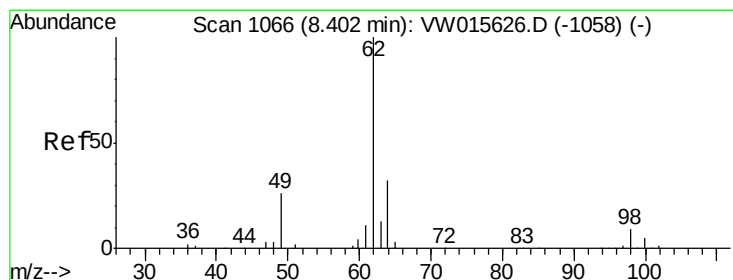
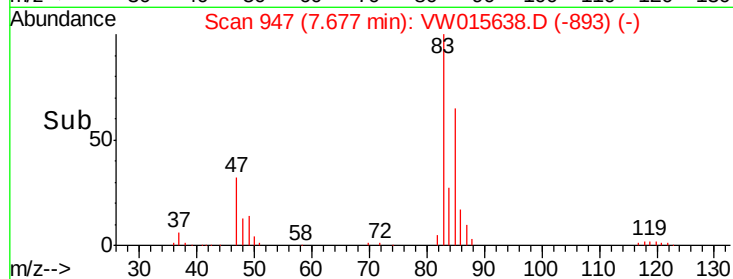
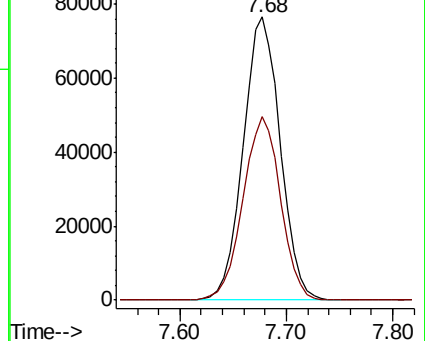
83 100

85 65.7 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 23.813 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW015638.D

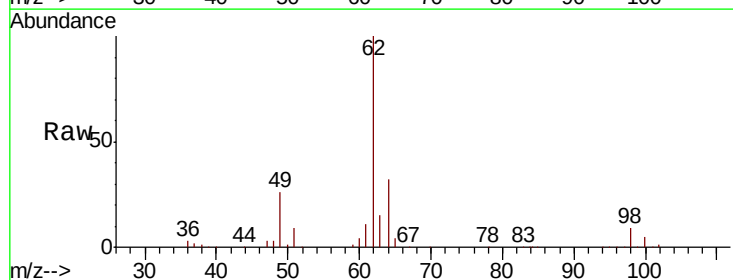
Acq: 19 Jun 2020 10:07

Tgt Ion: 62 Resp: 122120

Ion Ratio Lower Upper

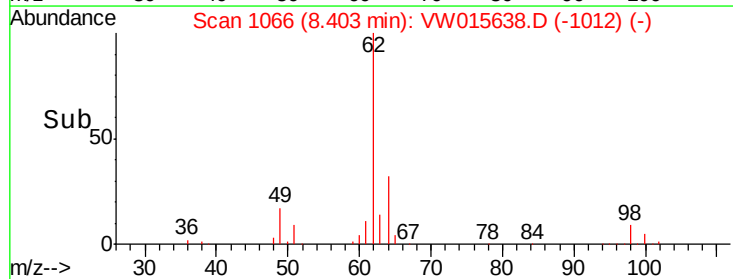
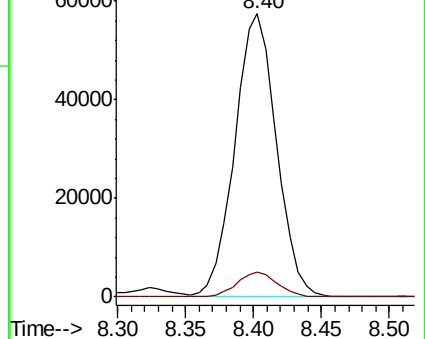
62 100

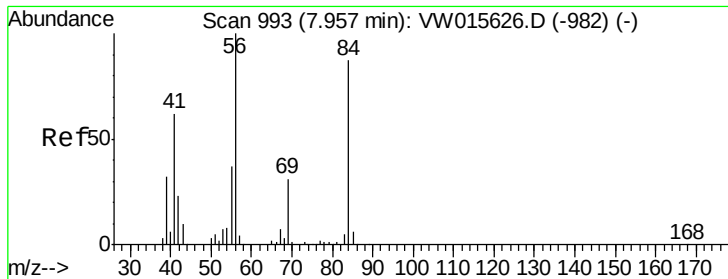
98 8.8 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

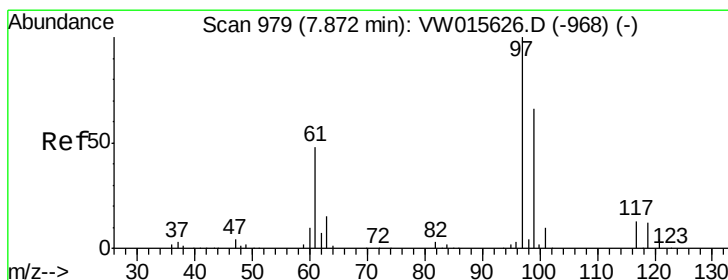
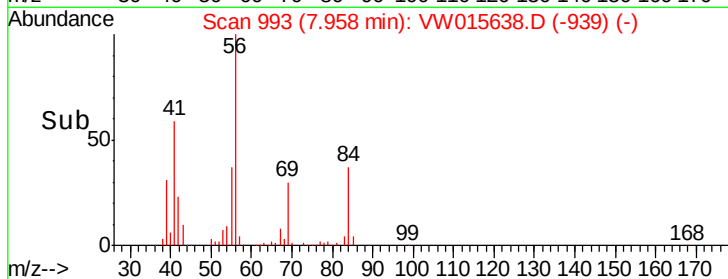
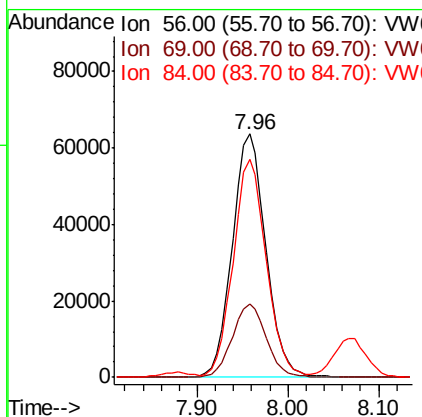
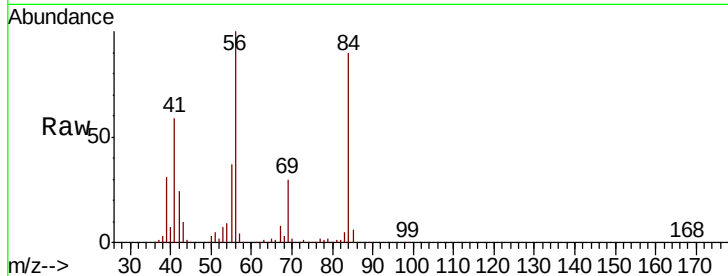




#30  
Cyclohexane  
Concen: 22.174 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

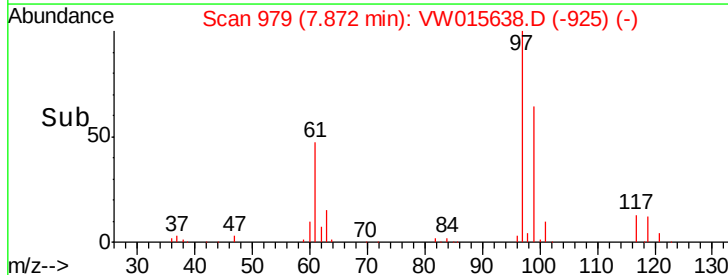
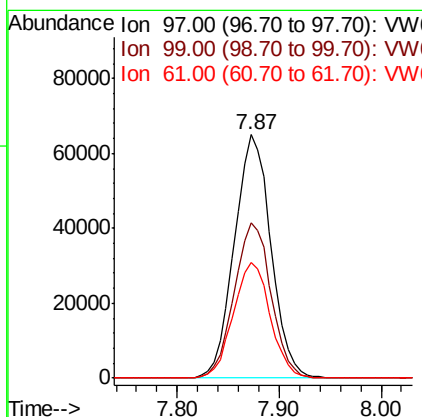
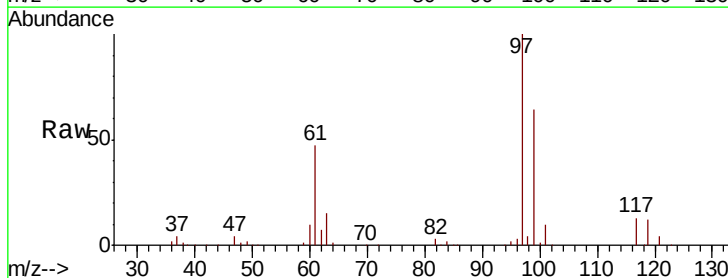
Instrument :  
MSVOA\_W  
ClientSampleId :

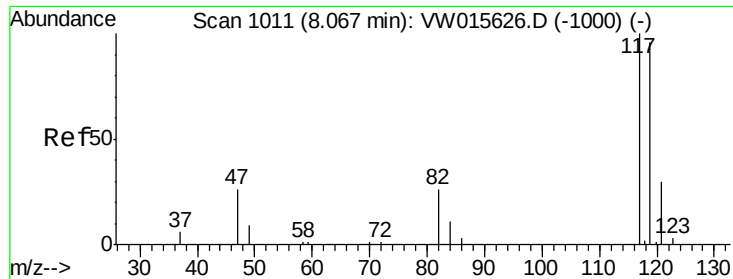
Tot Ion: 56 Resp: 163419  
Ion Ratio Lower Upper  
56 100  
69 30.6 24.6 37.0  
84 88.6 69.6 104.4



#31  
1,1,1-Trichloroethane  
Concen: 24.303 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion: 97 Resp: 162099  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.4 77.0  
61 48.0 38.1 57.1





#32

Carbon tetrachloride

Concen: 24.131 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

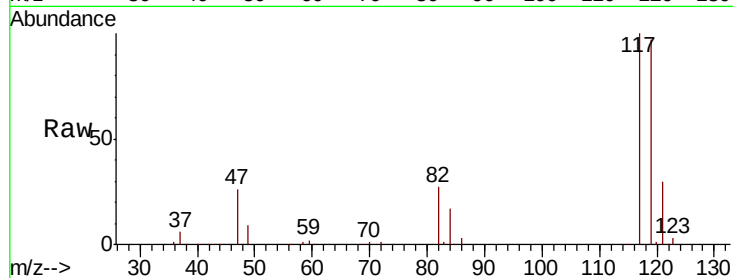
ClientSampleId :

Tot Ion:117 Resp: 147623

Ion Ratio Lower Upper

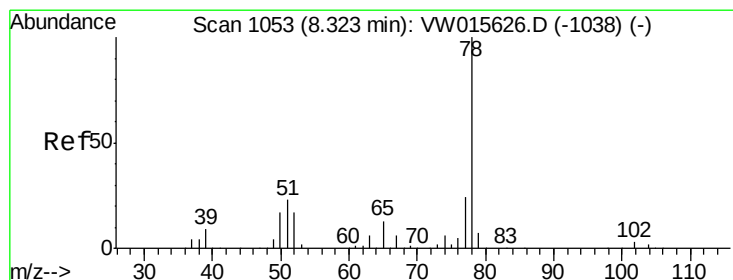
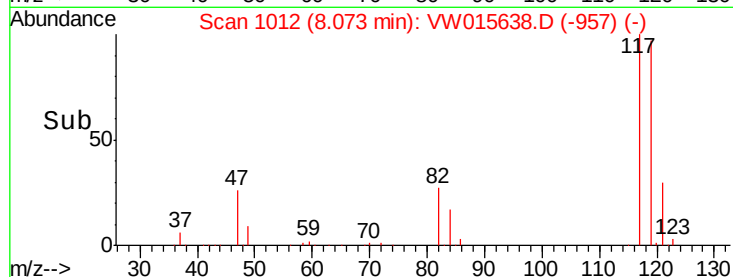
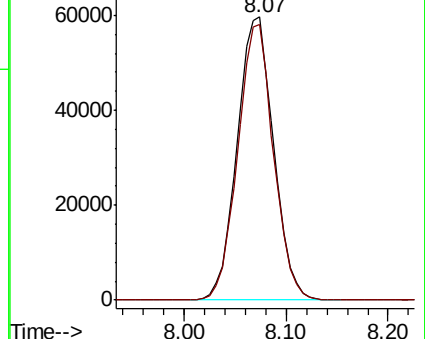
117 100

119 95.5 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: 23.978 ug/L

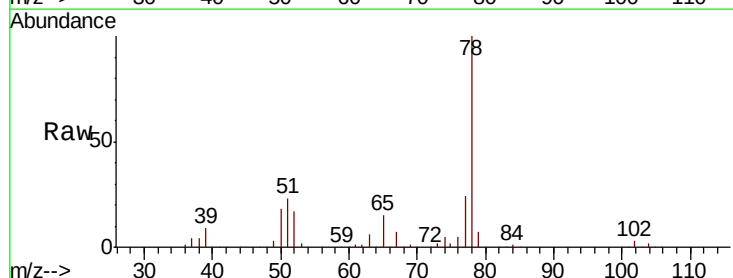
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

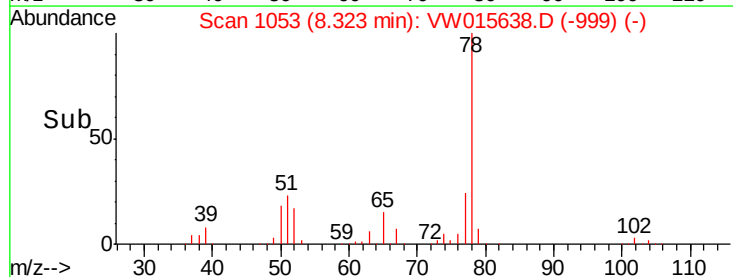
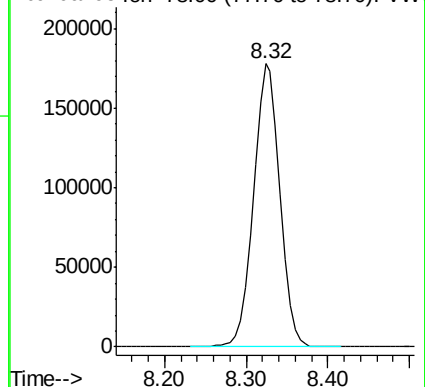
Lab File: VW015638.D

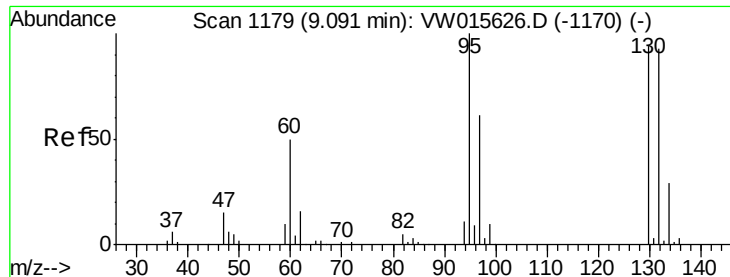
Acq: 19 Jun 2020 10:07

Tgt Ion: 78 Resp: 399783



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.935 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 95 Resp: 107194

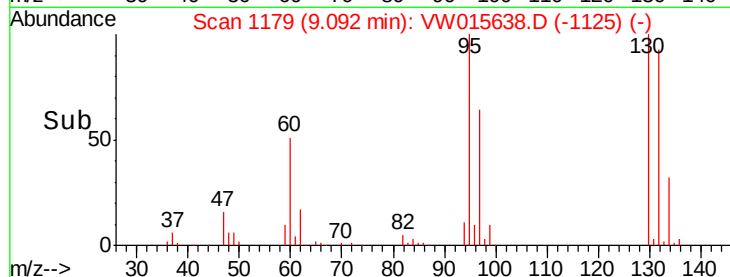
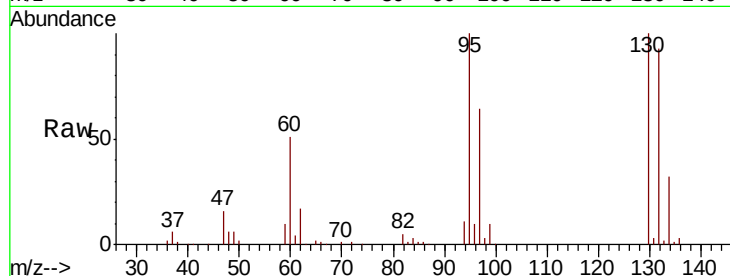
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.2

132 96.2 67.1 124.7

130 99.5 69.4 128.8

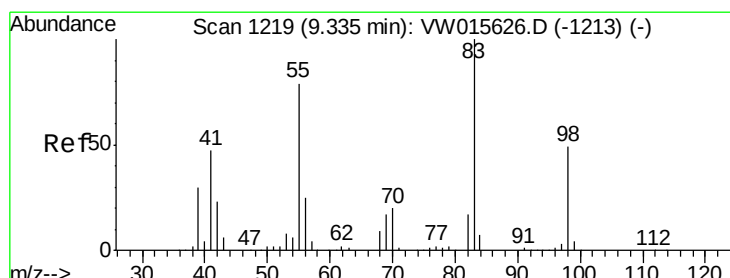
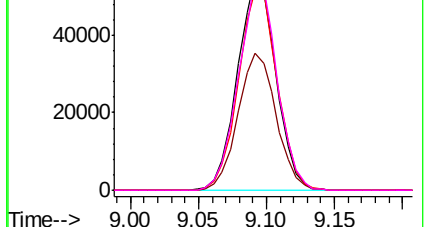


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 22.955 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

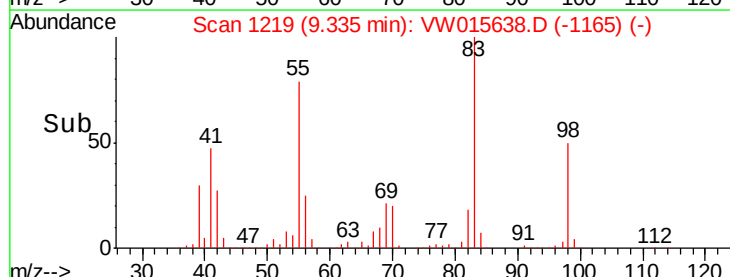
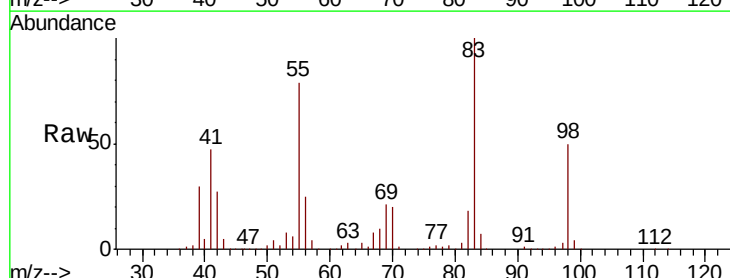
Tgt Ion: 83 Resp: 183359

Ion Ratio Lower Upper

83 100

55 77.4 62.8 94.2

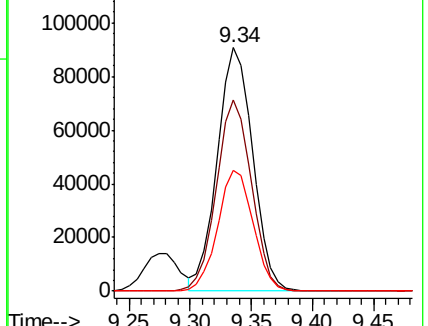
98 49.6 39.2 58.8



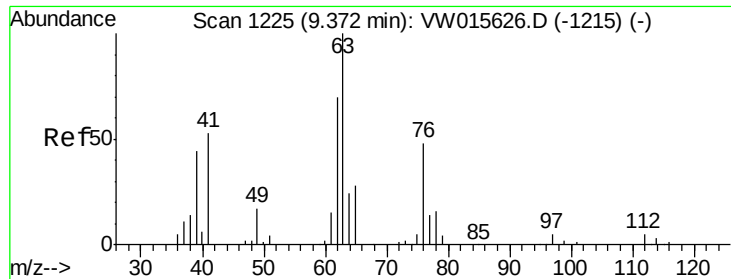
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



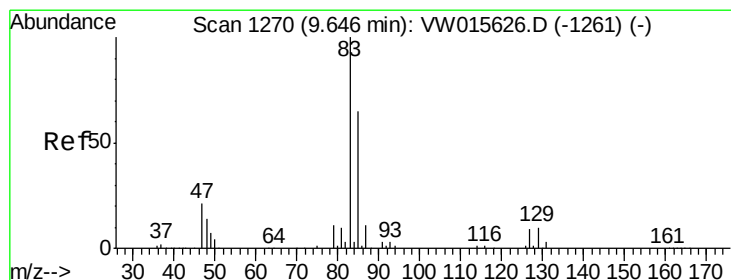
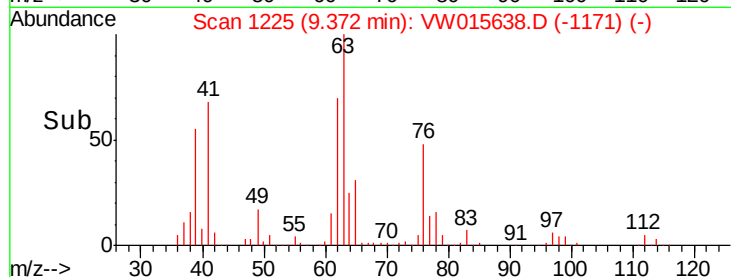
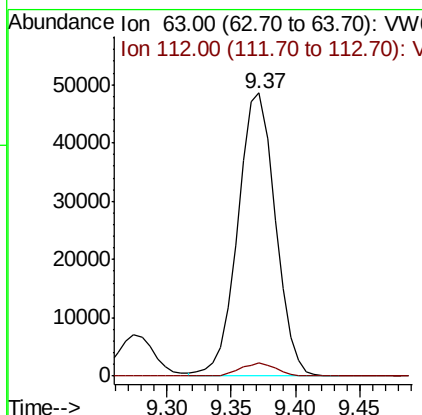
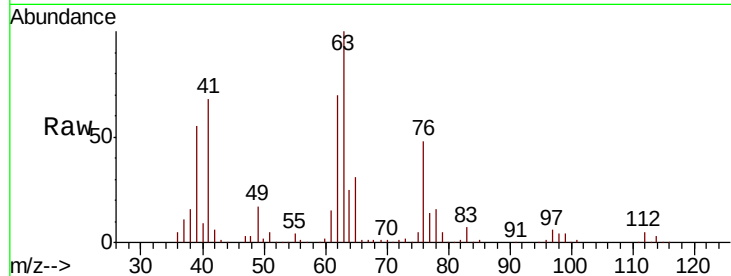




#40  
 1,2-Dichloropropane  
 Concen: 23.934 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

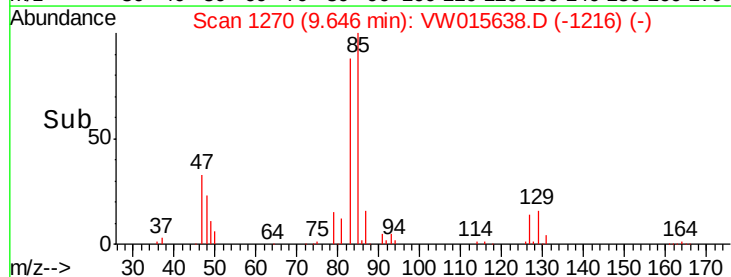
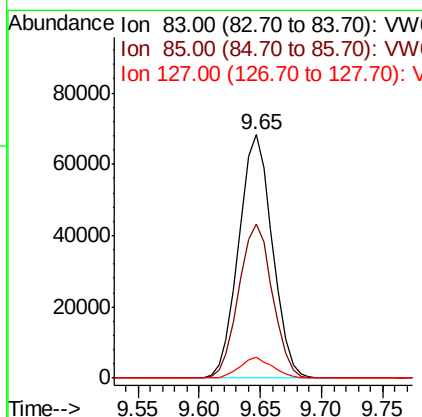
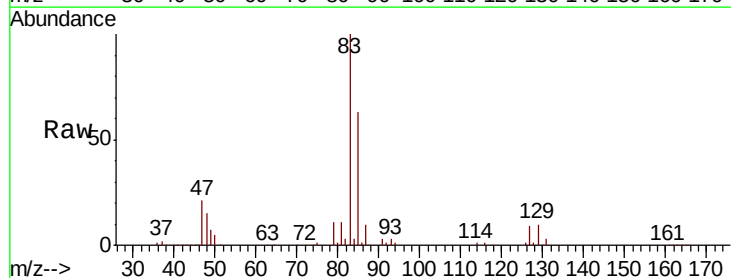
Instrument :  
 MSVOA\_W  
 ClientSampled :

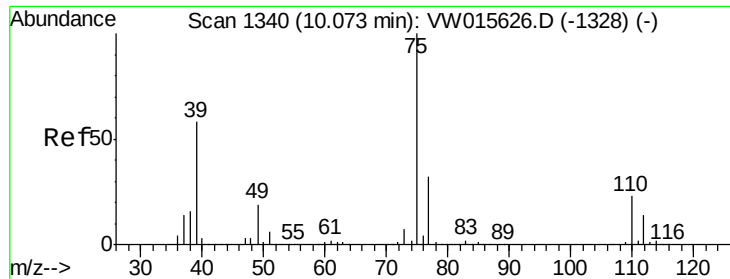
Tot Ion: 63 Resp: 98271  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.8 5.8



#41  
 Bromodichloromethane  
 Concen: 23.727 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Tgt Ion: 83 Resp: 130148  
 Ion Ratio Lower Upper  
 83 100  
 85 63.4 44.8 83.2  
 127 8.6 7.0 10.6

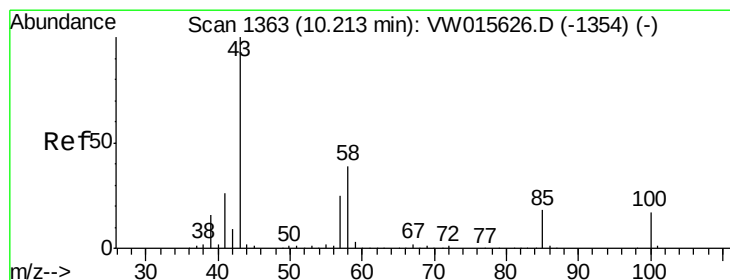
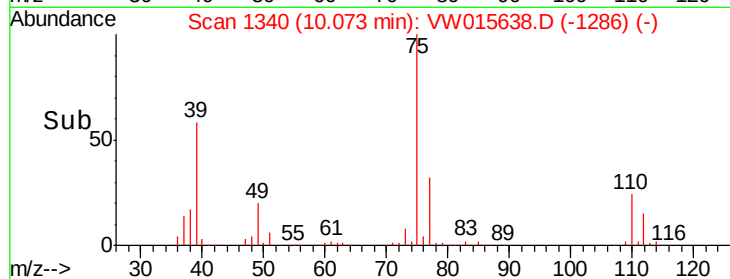
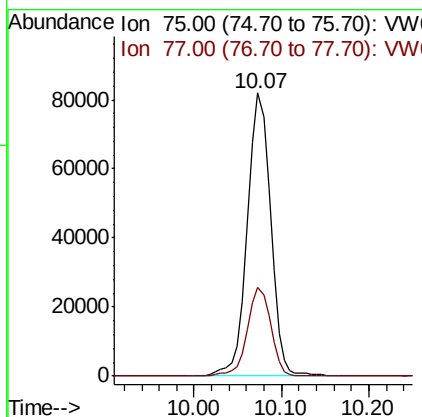
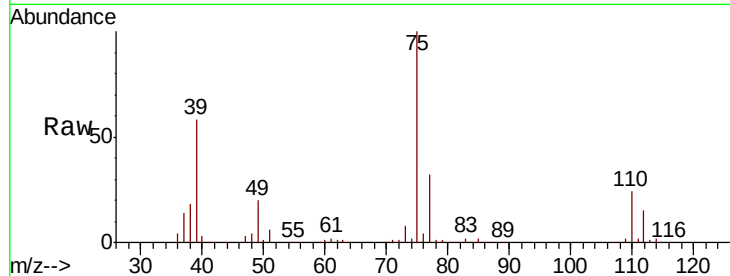




#42  
 cis-1,3-Dichloropropene  
 Concen: 23.221 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

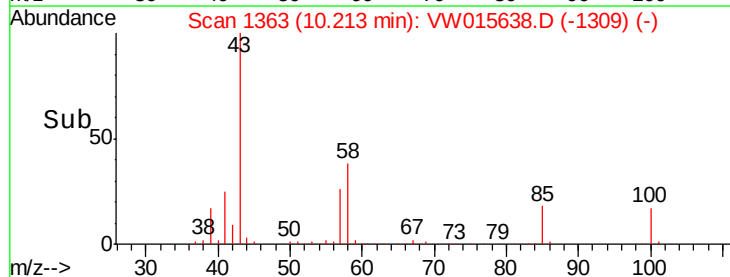
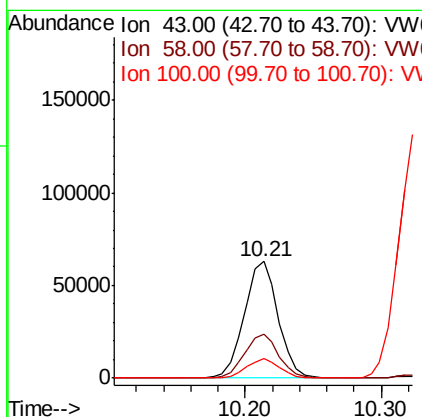
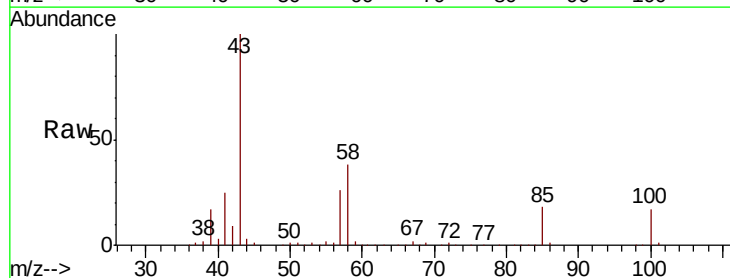
Instrument :  
 MSVOA\_W  
 ClientSampled :

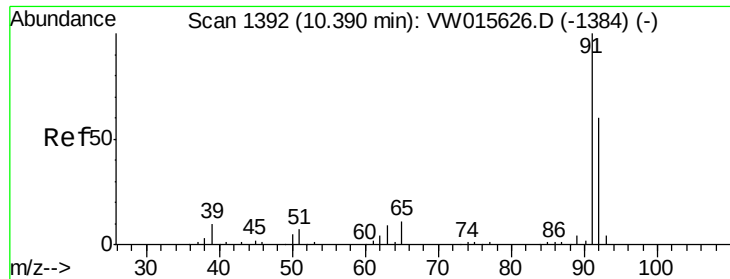
Tot Ion: 75 Resp: 152575  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 22.3 41.5



#43  
 4-Methyl-2-pentanone  
 Concen: 45.359 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Tgt Ion: 43 Resp: 109170  
 Ion Ratio Lower Upper  
 43 100  
 58 38.1 30.6 46.0  
 100 16.0 12.5 18.7





#44

Toluene

Concen: 24.209 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

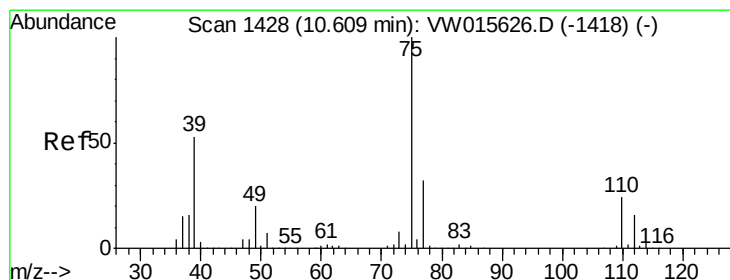
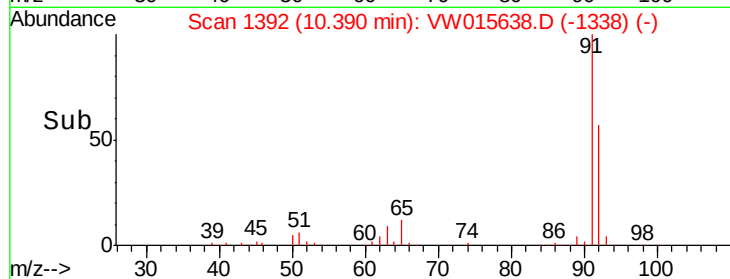
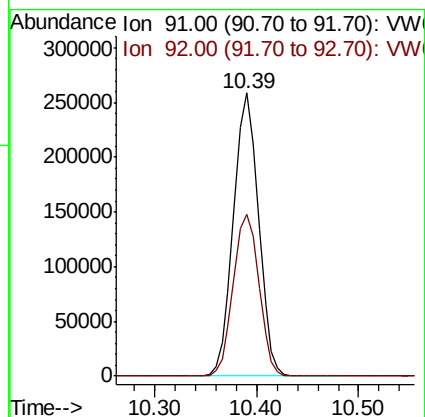
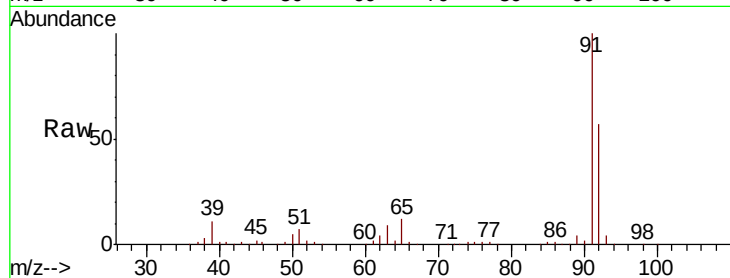
ClientSampleId :

Tot Ion: 91 Resp: 439759

Ion Ratio Lower Upper

91 100

92 57.3 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 23.037 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW015638.D

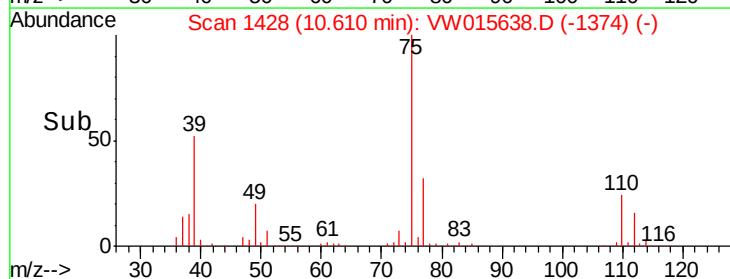
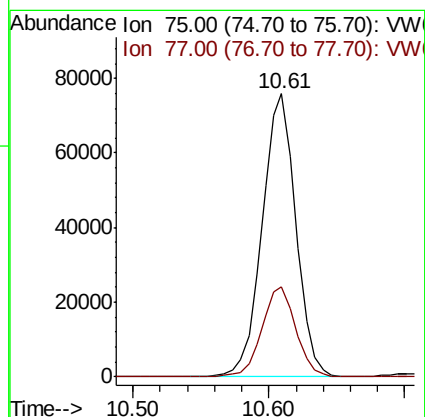
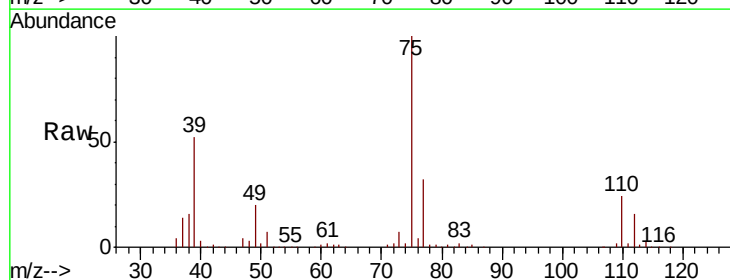
Acq: 19 Jun 2020 10:07

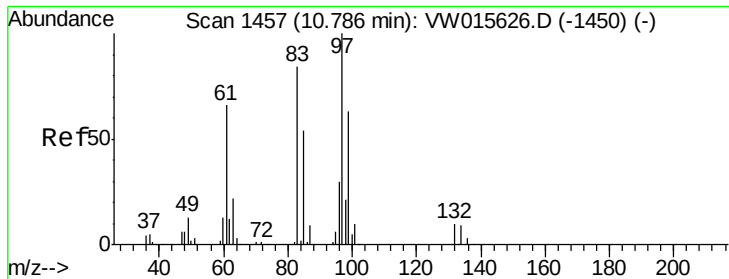
Tgt Ion: 75 Resp: 131726

Ion Ratio Lower Upper

75 100

77 31.8 21.5 39.9





#46

1,1,2-Trichloroethane

Concen: 23.963 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

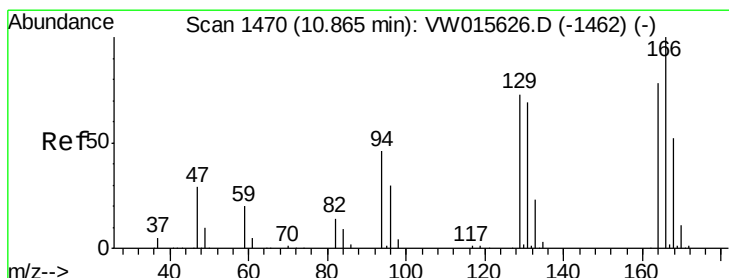
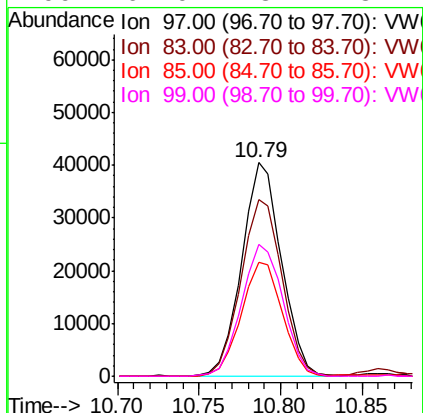
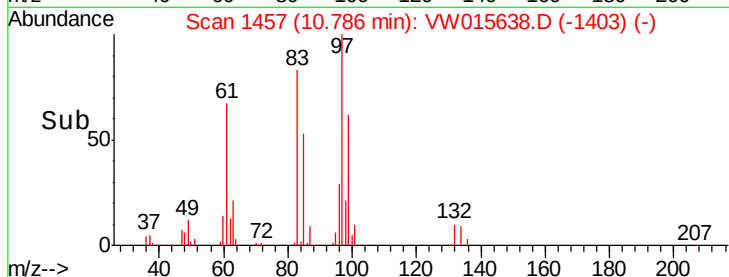
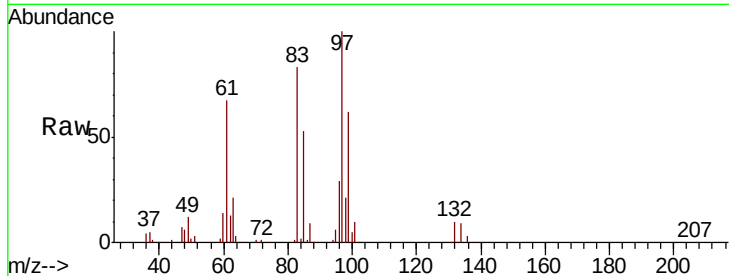
Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 68835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.9  | 58.2  | 108.2 |
| 85  | 53.1  | 37.4  | 69.4  |
| 99  | 62.0  | 43.7  | 81.1  |



#47

Tetrachloroethene

Concen: 23.895 ug/L

RT: 10.86 min Scan# 1469

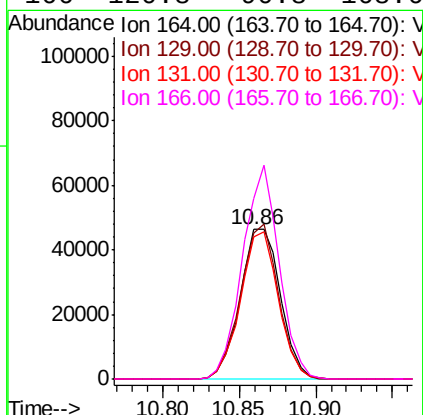
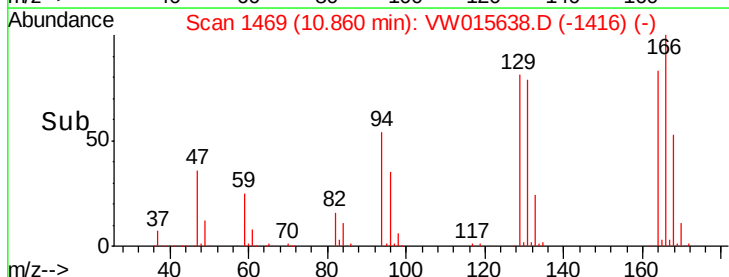
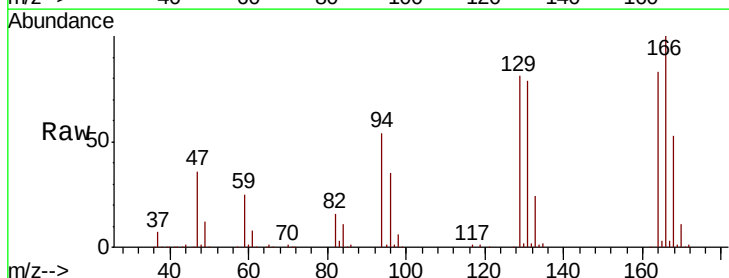
Delta R.T. -0.01 min

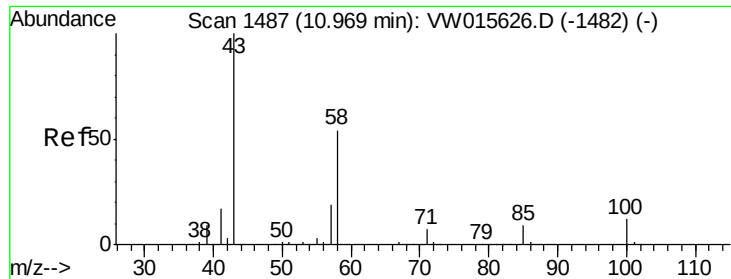
Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Tgt Ion: 164 Resp: 84830

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 97.6  | 66.3  | 123.1 |
| 131 | 94.8  | 65.1  | 120.9 |
| 166 | 120.8 | 90.8  | 168.6 |

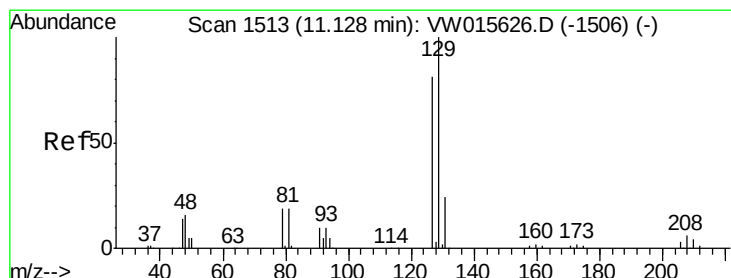
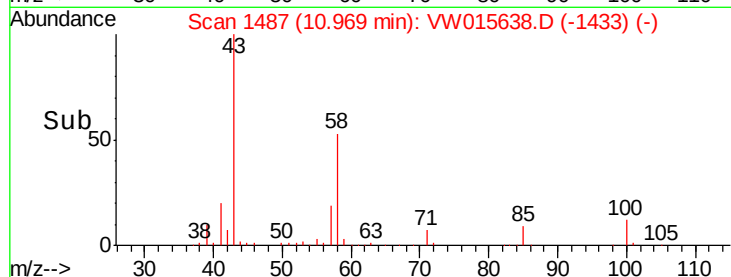
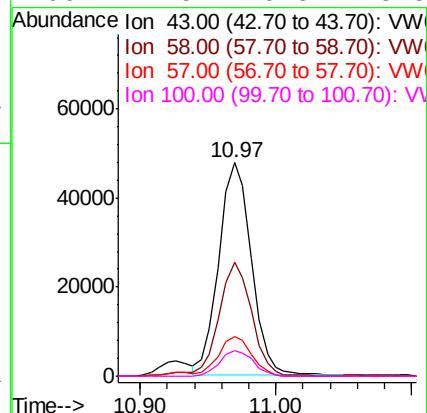
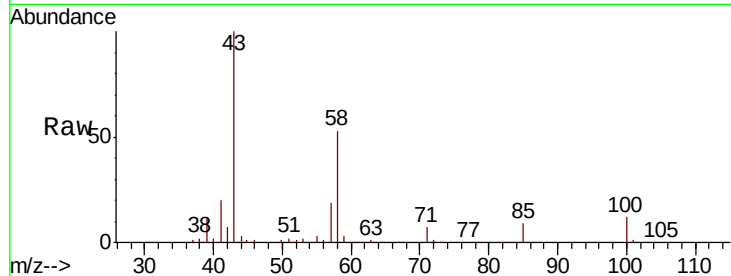




#49  
2-Hexanone  
Concen: 48.941 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

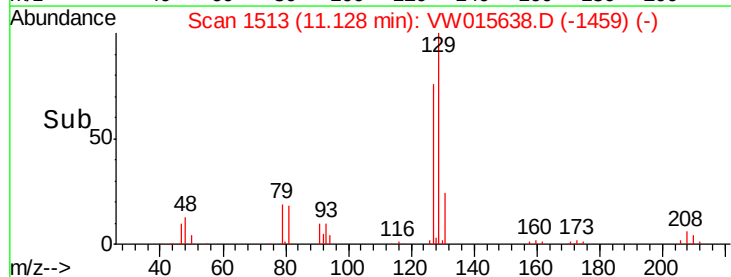
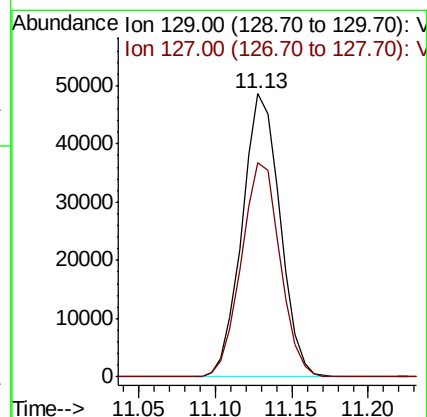
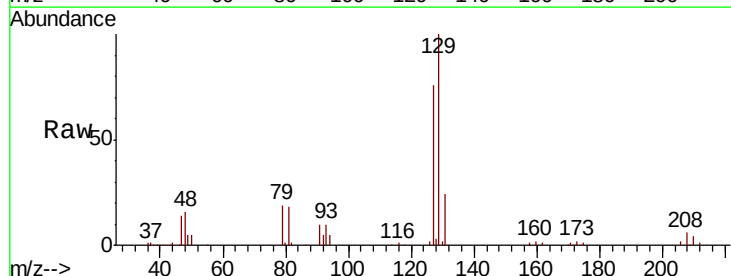
Instrument :  
MSVOA\_W  
ClientSampleId :

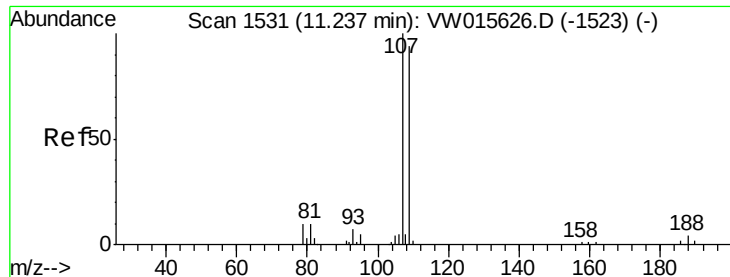
Tot Ion: 43 Resp: 79508  
Ion Ratio Lower Upper  
43 100  
58 53.1 42.6 64.0  
57 19.3 15.5 23.3  
100 12.5 10.3 15.5



#50  
Dibromochloromethane  
Concen: 24.068 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion: 129 Resp: 83997  
Ion Ratio Lower Upper  
129 100  
127 75.6 53.0 98.4

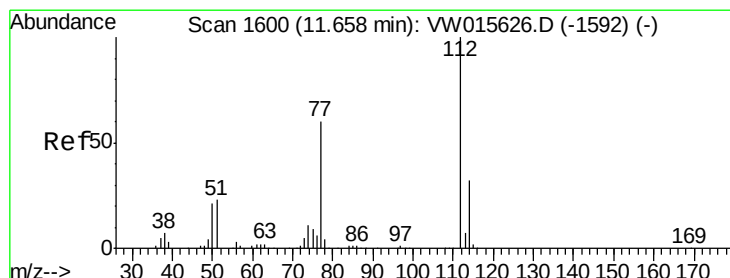
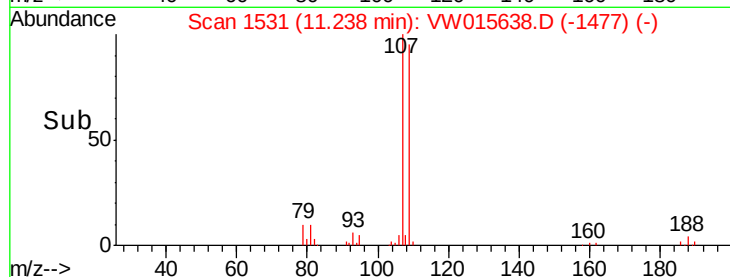
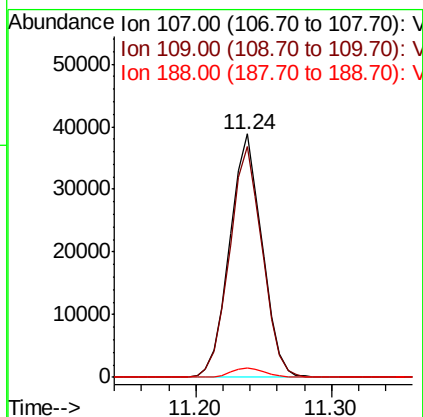
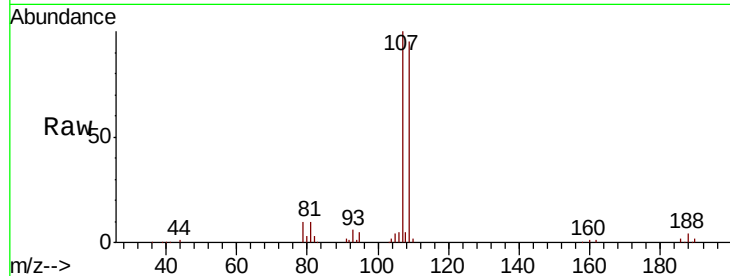




#51  
1,2-Dibromoethane  
Concen: 23.411 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

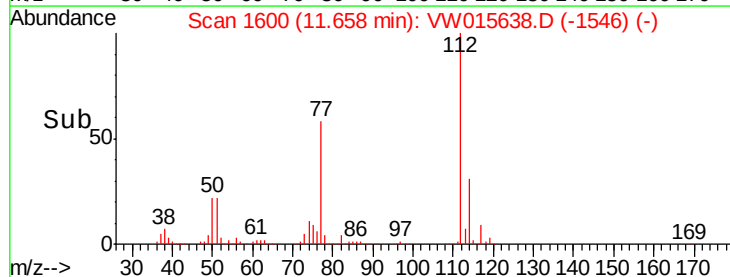
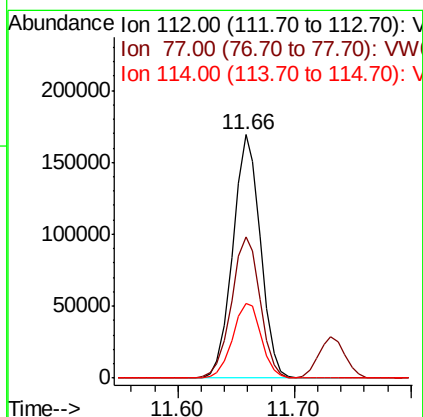
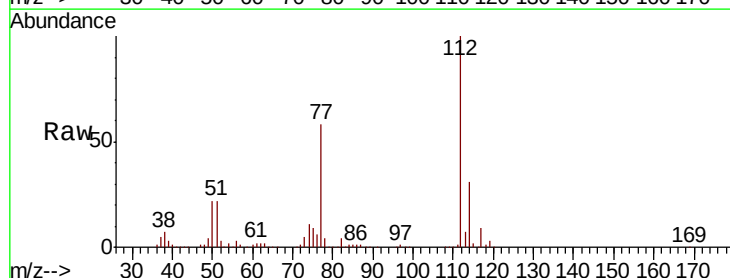
Instrument :  
MSVOA\_W  
ClientSampleId :

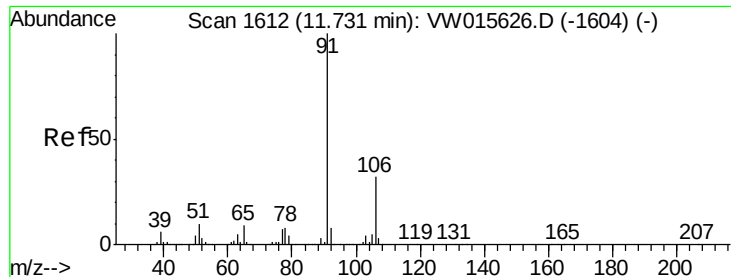
Tot Ion:107 Resp: 64561  
Ion Ratio Lower Upper  
107 100  
109 94.6 64.6 120.0  
188 3.9 2.8 4.2



#52  
Chlorobenzene  
Concen: 24.501 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion:112 Resp: 279163  
Ion Ratio Lower Upper  
112 100  
77 58.1 49.7 74.5  
114 30.9 21.8 40.6

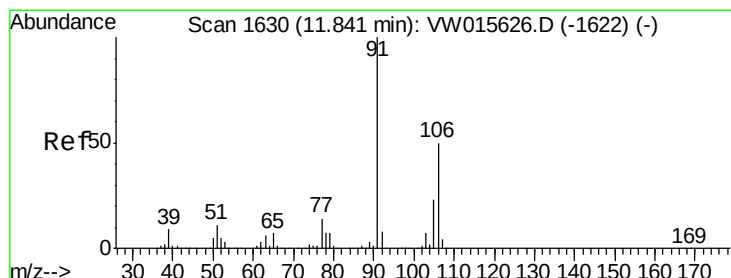
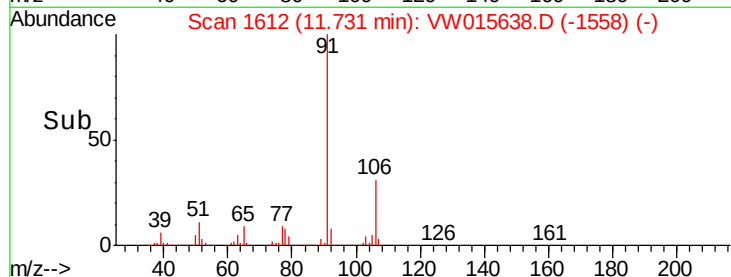
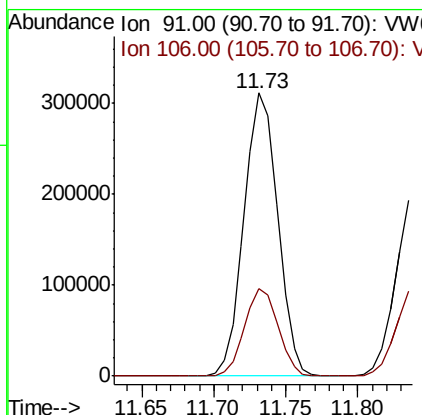
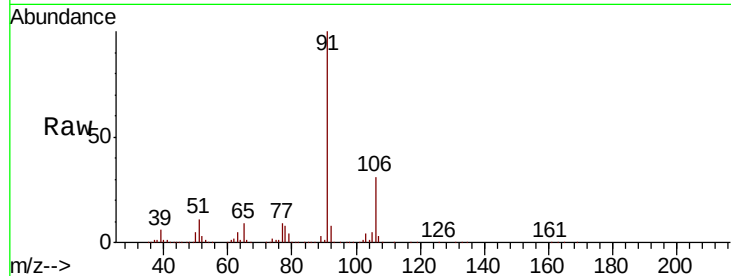




#53  
Ethylbenzene  
Concen: 24.271 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

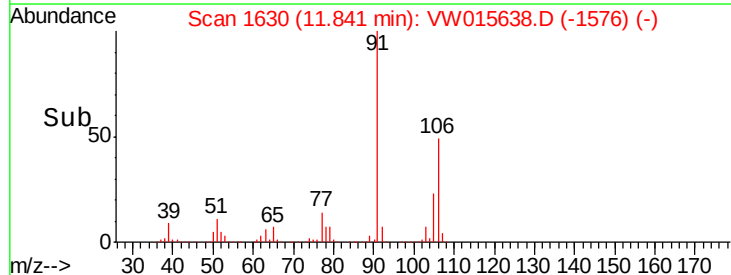
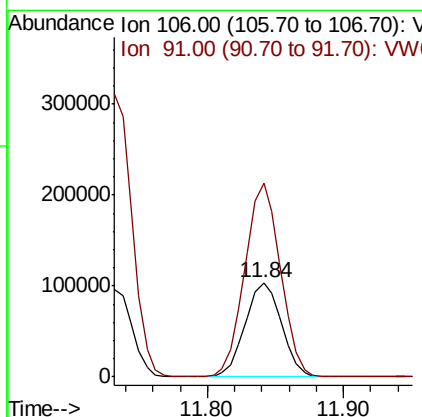
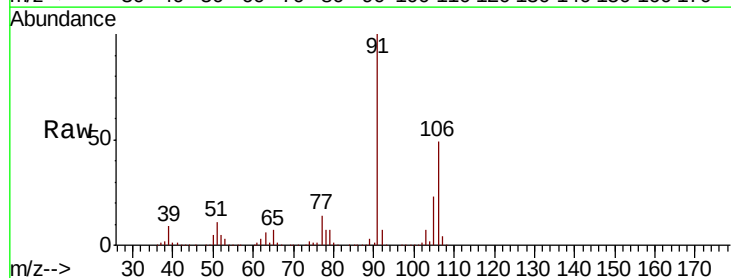
Instrument :  
MSVOA\_W  
ClientSampleId :

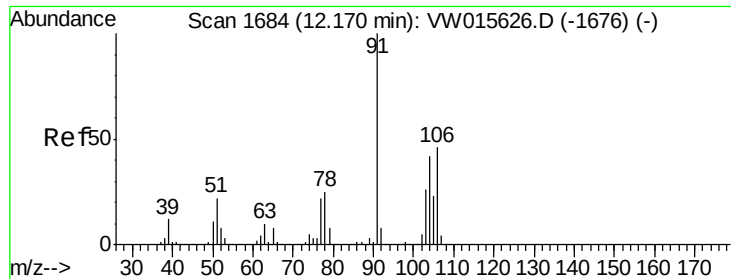
Tot Ion: 91 Resp: 506256  
Ion Ratio Lower Upper  
91 100  
106 30.9 21.3 39.6



#54  
m,p-Xylene  
Concen: 24.738 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion: 106 Resp: 193624  
Ion Ratio Lower Upper  
106 100  
91 205.7 142.6 264.8

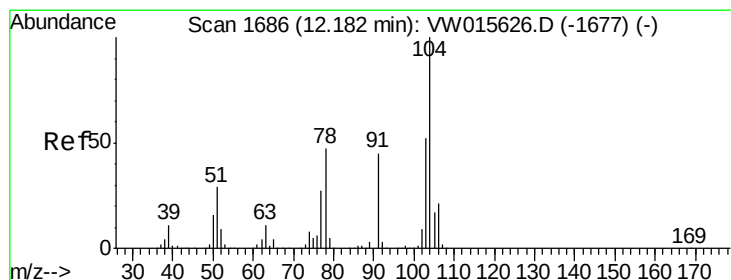
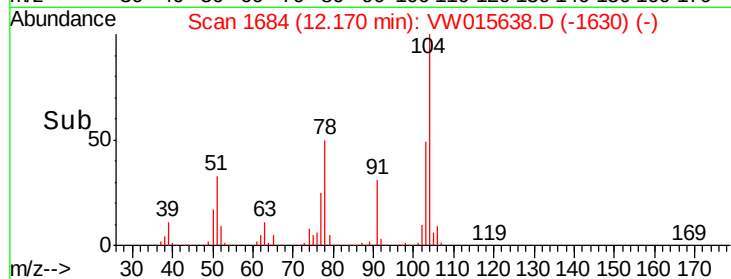
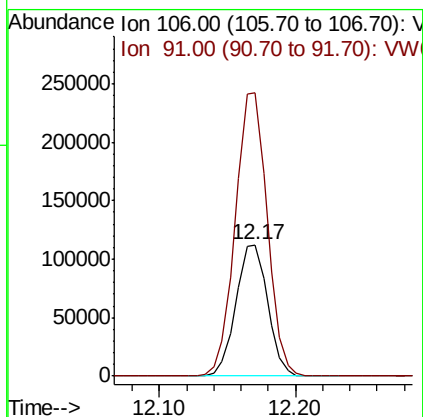
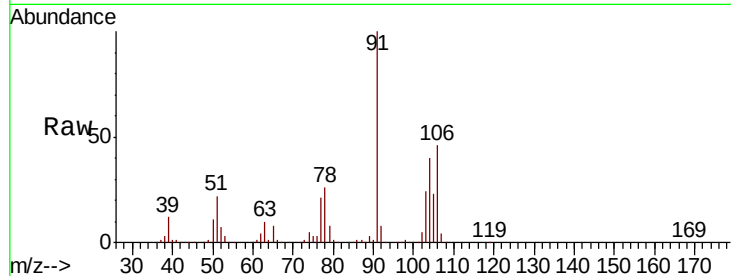




#55  
o-xylene  
Concen: 24.667 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

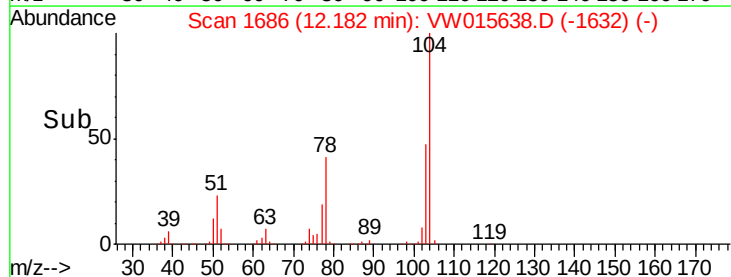
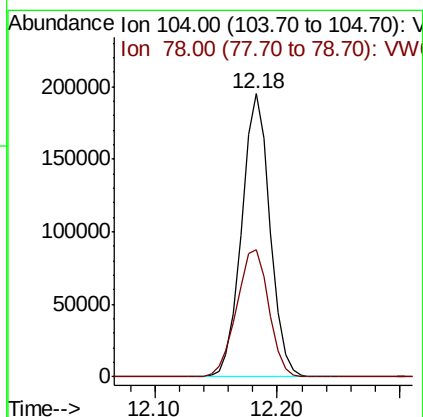
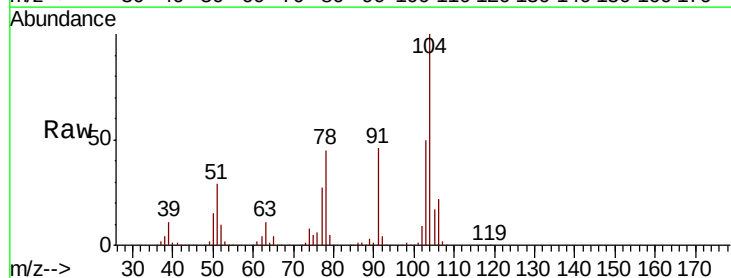
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:106 Resp: 183256  
Ion Ratio Lower Upper  
106 100  
91 215.9 149.0 276.6

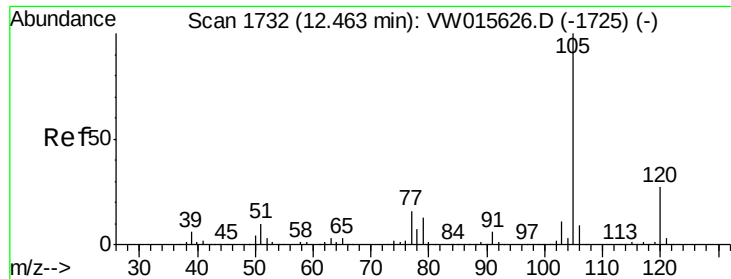


#56  
Styrene  
Concen: 24.588 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW015638.D  
Acq: 19 Jun 2020 10:07

Tgt Ion:104 Resp: 312138  
Ion Ratio Lower Upper  
104 100  
78 45.1 32.9 61.1







#57

Isopropylbenzene

Concen: 24.869 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

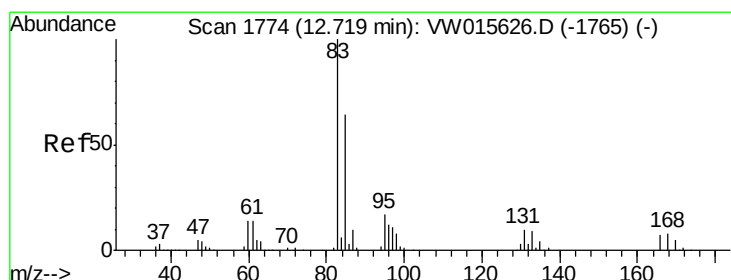
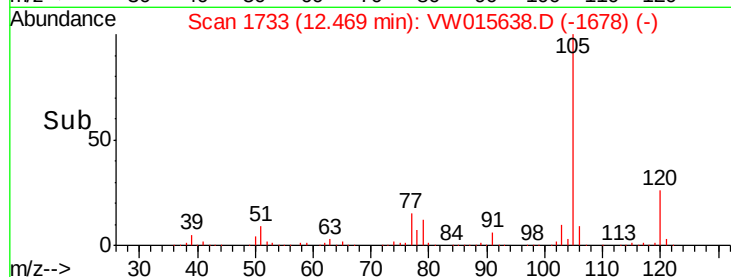
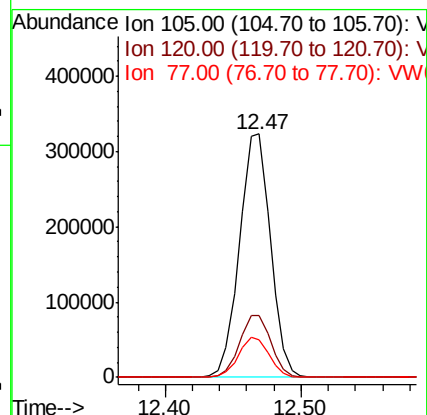
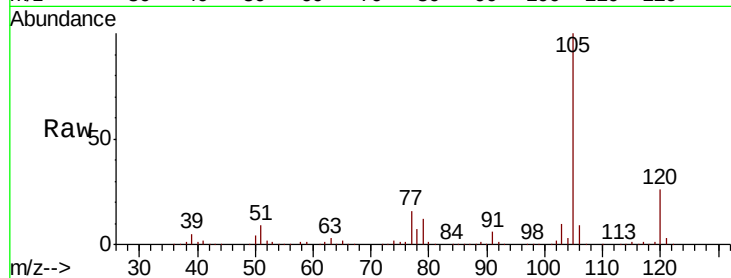
Tot Ion:105 Resp: 514668

Ion Ratio Lower Upper

105 100

120 25.9 21.0 31.4

77 16.2 13.0 19.6



#58

1,1,2,2-Tetrachloroethane

Concen: 24.323 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

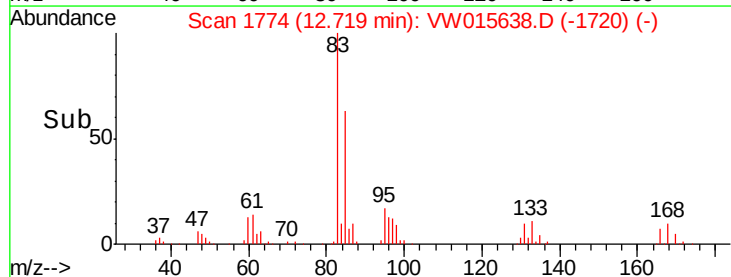
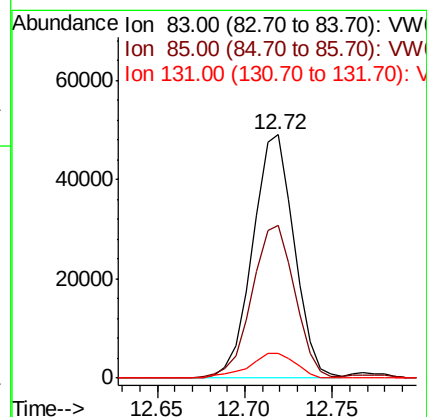
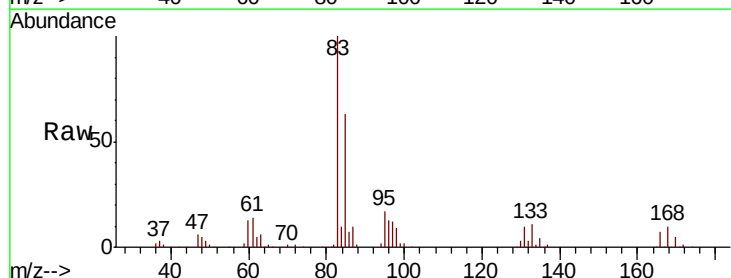
Tgt Ion: 83 Resp: 80889

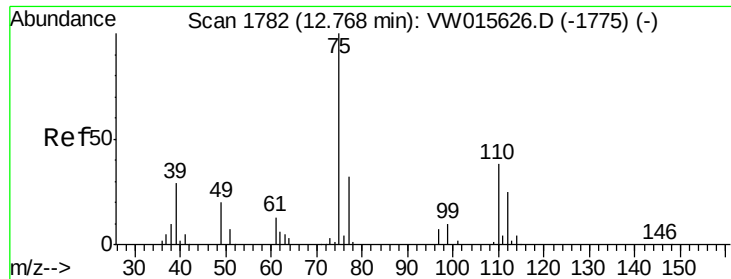
Ion Ratio Lower Upper

83 100

85 62.9 44.7 82.9

131 10.3 9.1 13.7





#59

1,2,3-Trichloropropane

Concen: 24.115 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

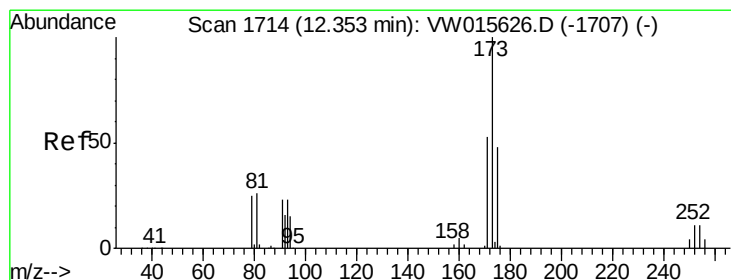
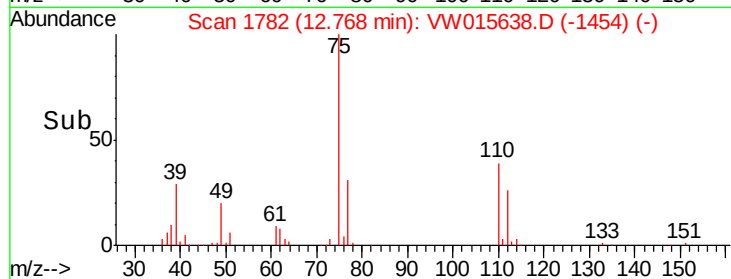
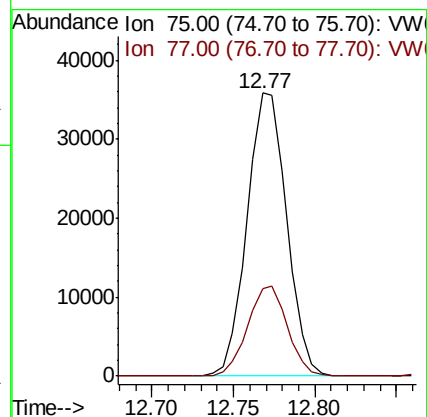
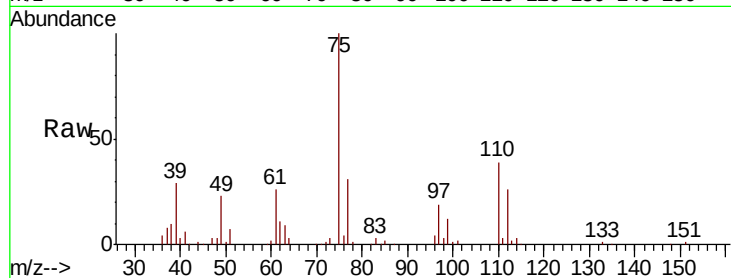
ClientSampled :

Tot Ion: 75 Resp: 60808

Ion Ratio Lower Upper

75 100

77 31.8 25.9 38.9



#62

Bromoform

Concen: 22.135 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

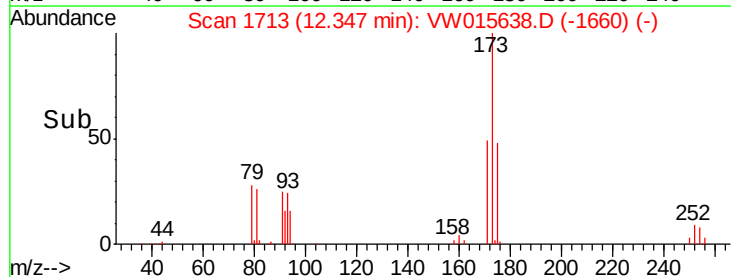
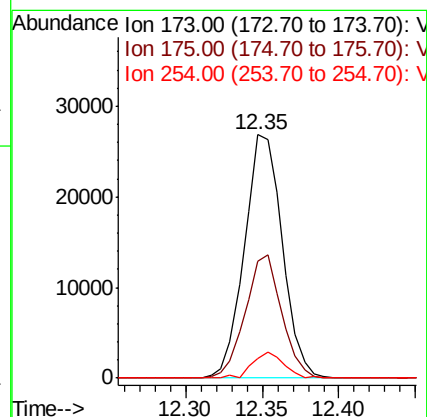
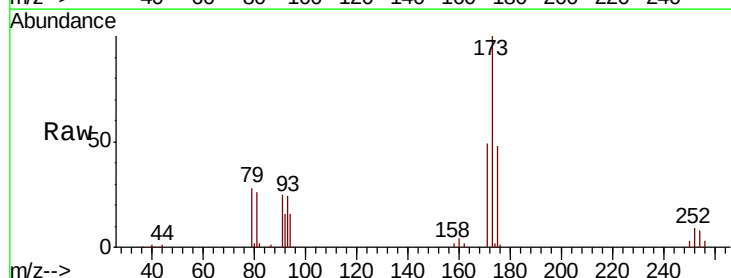
Tgt Ion: 173 Resp: 46285

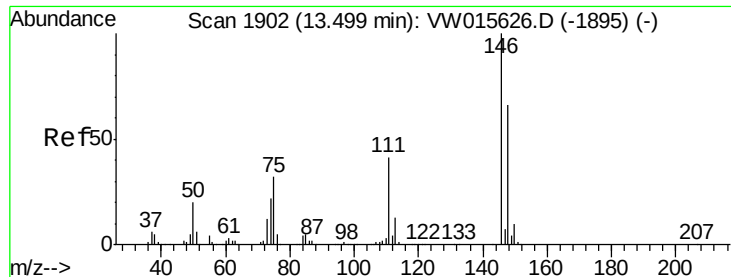
Ion Ratio Lower Upper

173 100

175 48.5 37.9 56.9

254 8.3 6.8 10.2

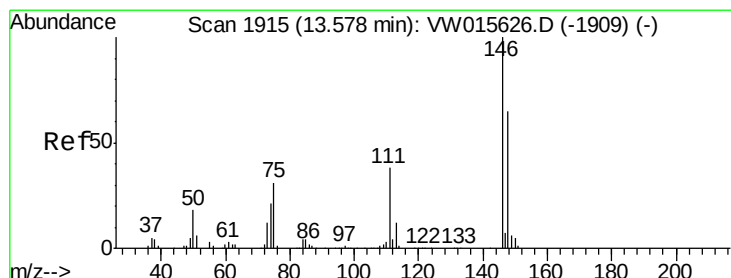
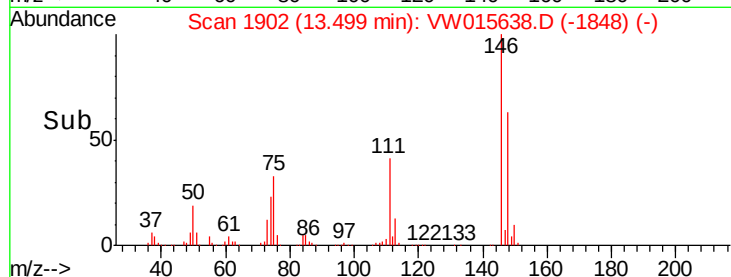
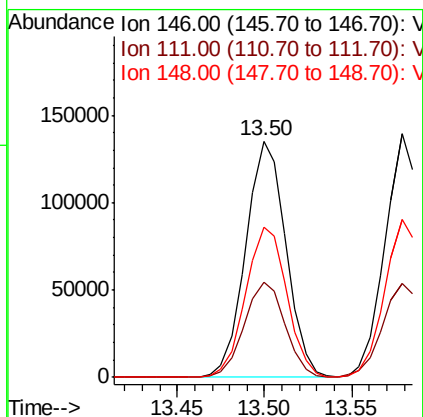
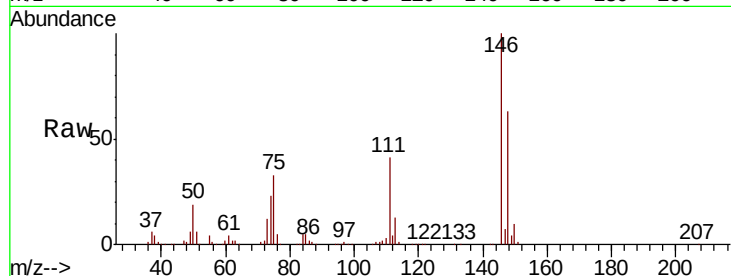




#63  
 1,3-Dichlorobenzene  
 Concen: 23.680 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

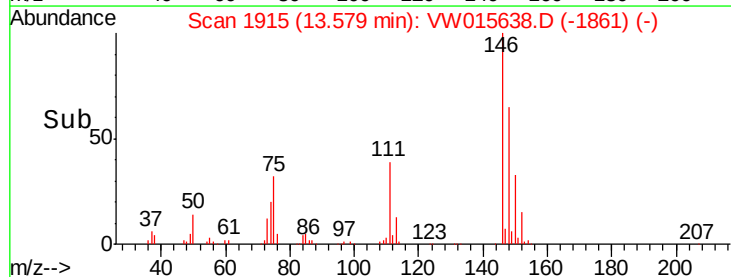
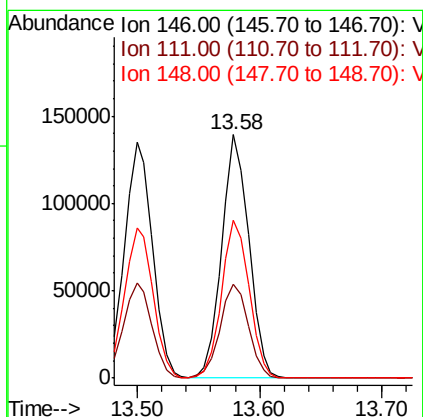
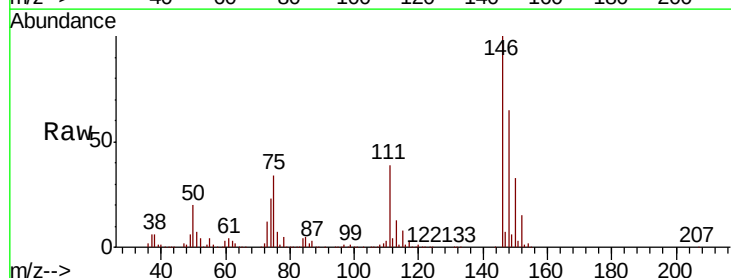
Instrument :  
 MSVOA\_W  
 ClientSampleId :

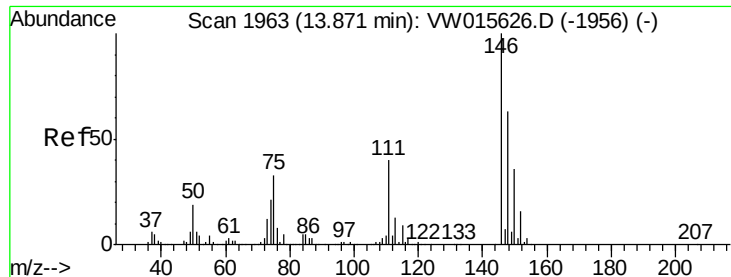
Tot Ion:146 Resp: 217463  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 29.3 54.5  
 148 63.5 42.5 78.9



#64  
 1,4-Dichlorobenzene  
 Concen: 23.778 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Tgt Ion:146 Resp: 213962  
 Ion Ratio Lower Upper  
 146 100  
 111 38.8 28.1 52.1  
 148 64.8 43.3 80.3

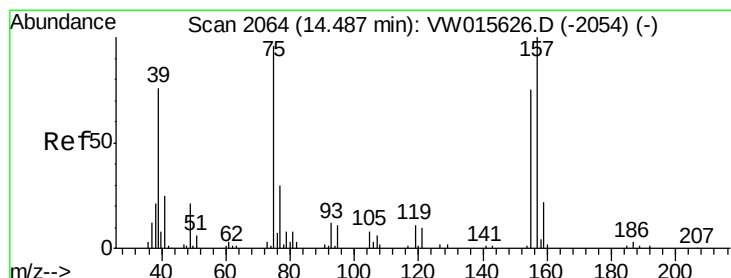
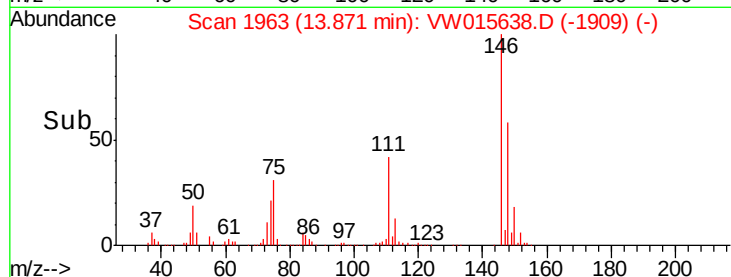
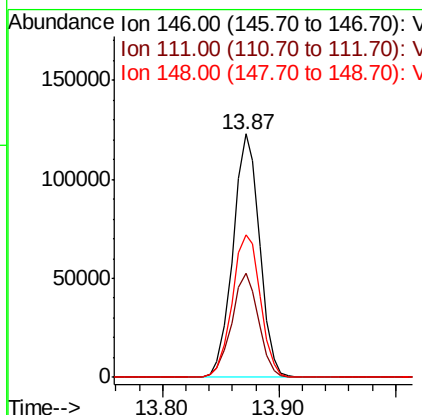
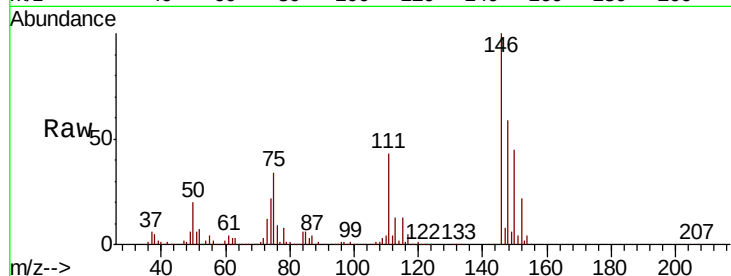




#65  
 1,2-Dichlorobenzene  
 Concen: 24.443 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

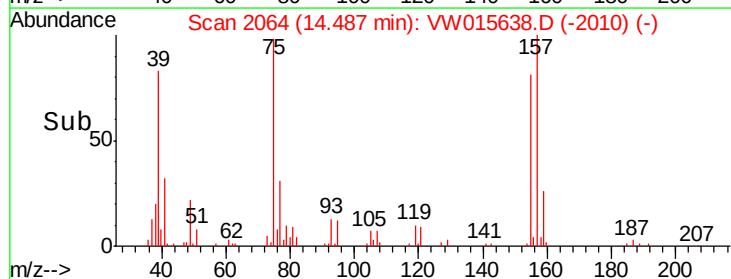
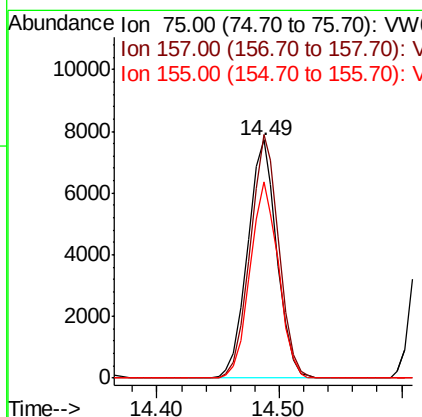
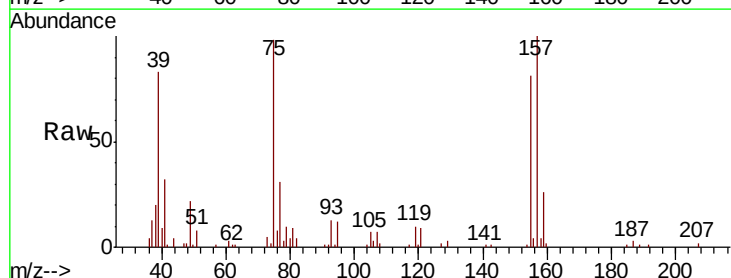
Instrument :  
 MSVOA\_W  
 ClientSampleId :

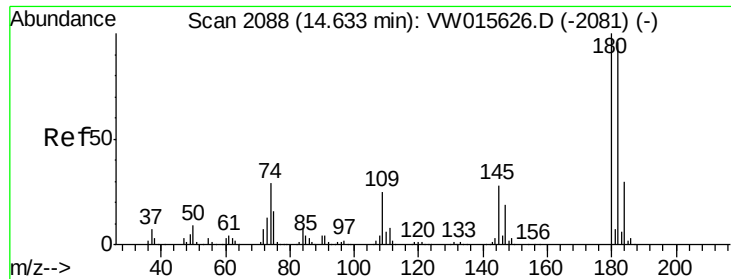
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 34.9  | 52.3  |
| 148     | 58.6  | 51.8  | 77.8  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 21.127 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 157     | 102.3 | 87.4  | 131.0 |
| 155     | 82.4  | 64.6  | 96.8  |

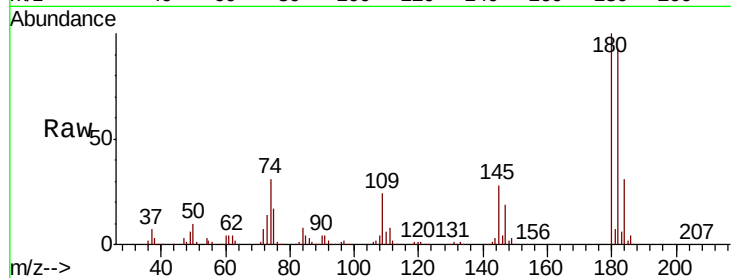




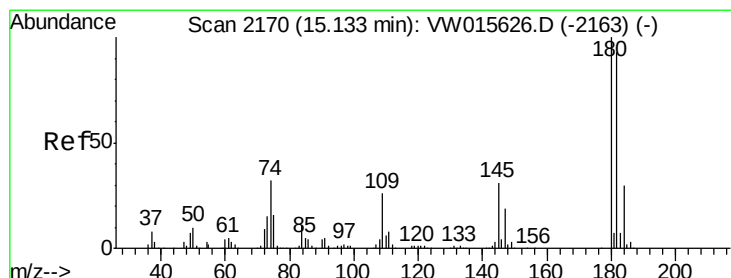
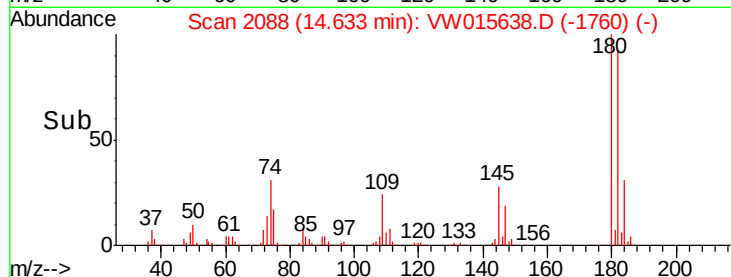
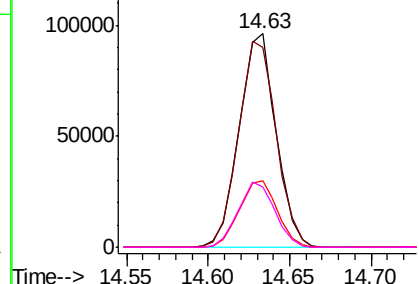
#67  
 1,3,5-Trichlorobenzene  
 Concen: 23.884 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.5  | 76.6  | 114.8 |
| 184     | 31.8  | 24.4  | 36.6  |
| 145     | 30.6  | 24.0  | 36.0  |

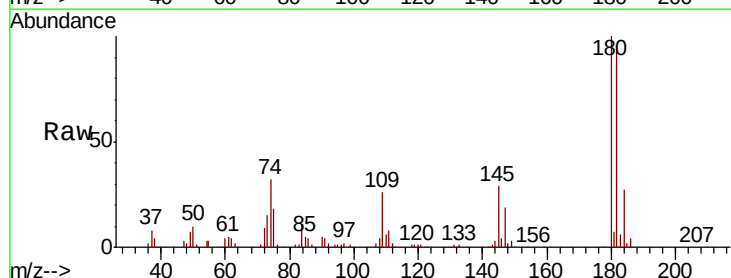


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

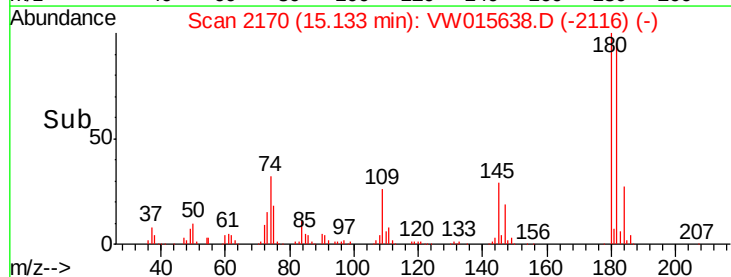
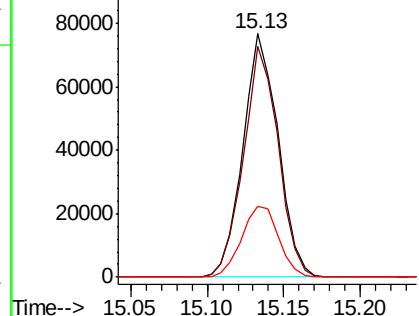


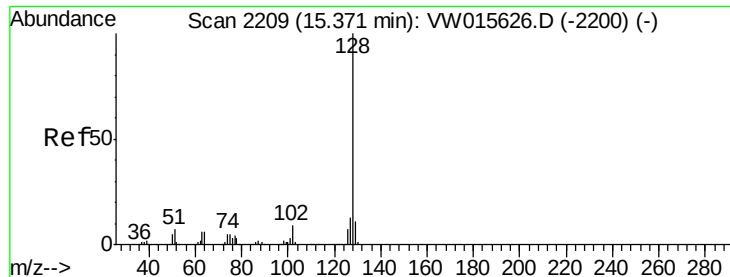
#68  
 1,2,4-trichlorobenzene  
 Concen: 23.902 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW015638.D  
 Acq: 19 Jun 2020 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.7  | 76.1  | 114.1 |
| 145     | 30.7  | 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: 22.149 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

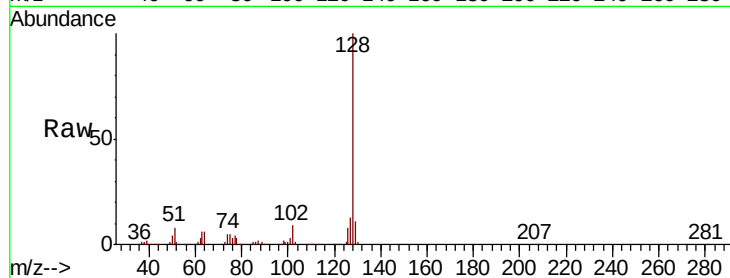
Tot Ion:128 Resp: 205939

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

127 13.3 10.6 15.8

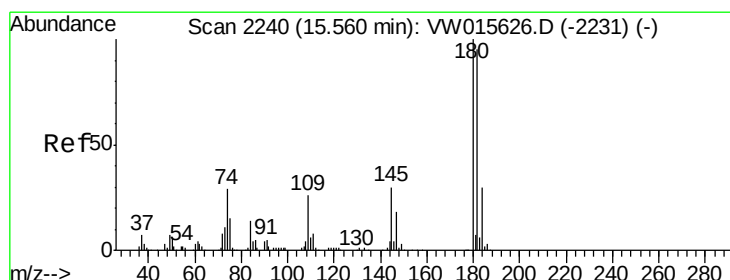
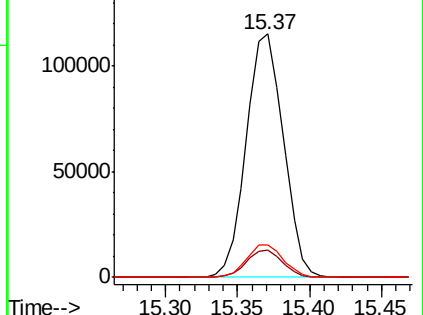
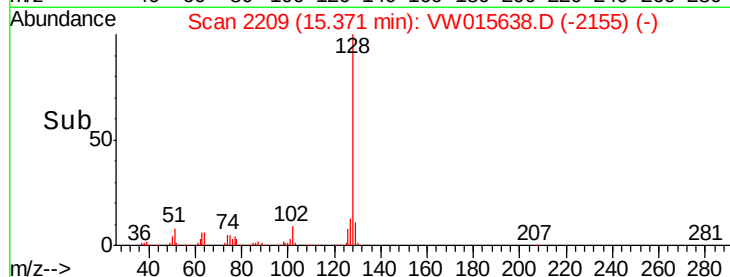


Abundance

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: 24.293 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW015638.D

Acq: 19 Jun 2020 10:07

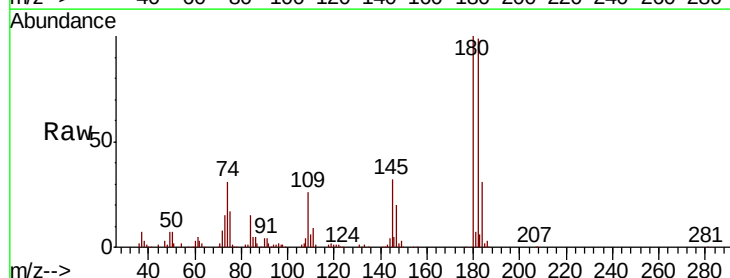
Tgt Ion:180 Resp: 105830

Ion Ratio Lower Upper

180 100

182 94.5 75.4 113.2

145 32.2 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

