

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122420\  
 Data File : VW017754.D  
 Acq On : 24 Dec 2020 22:41  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 25 07:50:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 25 07:46:43 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 331952   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 347582   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 185251   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 125956   | 24.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.08%   |
| 7) Chloroethane-d5             | 2.88   | 69    | 113961   | 26.88    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 107.52%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 226418   | 25.30    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 101.20%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 60605    | 72.80    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 145.60%# |
| 24) Chloroform-d               | 7.65   | 84    | 225760   | 26.03    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.12%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 127182   | 28.33    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.32%  |
| 29) Benzene-d6                 | 8.27   | 84    | 439051   | 22.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.68%   |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 130904   | 24.25    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.00%   |
| 37) Toluene-d8                 | 10.32  | 98    | 451659   | 24.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.08%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 61673    | 25.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.56%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 48766    | 71.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 143.90%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 128136   | 31.98    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 127.92%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 167337   | 25.94    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.76%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 76030    | 20.745 | ug/L  | 97     |
| 3) Chloromethane               | 2.21 | 50   | 76888    | 23.602 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 140511   | 25.496 | ug/L  | 98     |
| 6) Bromomethane                | 2.77 | 94   | 107796   | 26.377 | ug/L  | 100    |
| 8) Chloroethane                | 2.92 | 64   | 95096    | 27.522 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 85375    | 18.882 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 110632   | 26.216 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 107600   | 26.301 | ug/L  | 88     |
| 13) Acetone                    | 4.12 | 43   | 34199    | 47.575 | ug/L  | 95     |
| 14) Carbon disulfide           | 4.39 | 76   | 321386   | 26.308 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 45014    | 32.309 | ug/L  | 96     |
| 16) Methylene chloride         | 4.92 | 84   | 113556   | 23.922 | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 150642   | 29.055 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 107322   | 24.321 | ug/L  | 95     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 191865   | 25.450 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.17 | 43   | 62707    | 64.853 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 116676   | 25.163 | ug/L  | 97     |

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 Acq On : 24 Dec 2020 22:41  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

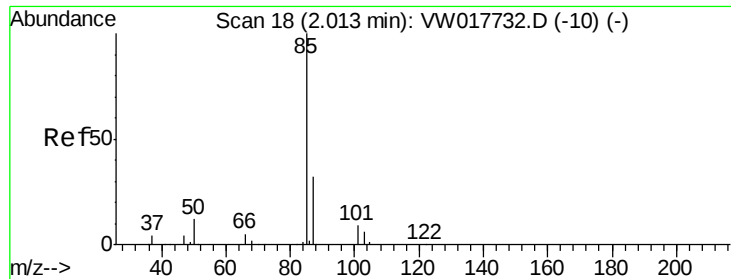
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 25 07:50:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 25 07:46:43 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.51  | 128  | 51781    | 26.362 | ug/L # | 85       |
| 25) Chloroform                  | 7.67  | 83   | 203061   | 25.598 | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 144397   | 28.140 | ug/L   | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 184671   | 22.321 | ug/L   | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 179640   | 22.468 | ug/L   | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 165885   | 21.991 | ug/L   | 98       |
| 34) Benzene                     | 8.32  | 78   | 438715   | 22.075 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 117400   | 21.342 | ug/L   | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 218244   | 22.695 | ug/L   | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 113818   | 24.260 | ug/L   | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 151954   | 23.661 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 181480   | 24.240 | ug/L   | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 151228   | 66.347 | ug/L   | 100      |
| 44) Toluene                     | 10.39 | 91   | 538369   | 23.756 | ug/L   | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 165067   | 25.891 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 91806    | 26.326 | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.86 | 164  | 96662    | 22.475 | ug/L   | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 109573   | 67.756 | ug/L   | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 109421   | 26.429 | ug/L   | 93       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 91683    | 27.770 | ug/L   | 90       |
| 52) Chlorobenzene               | 11.66 | 112  | 351407   | 24.840 | ug/L   | 96       |
| 53) Ethylbenzene                | 11.73 | 91   | 636862   | 24.768 | ug/L   | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 245056   | 24.363 | ug/L   | 99       |
| 55) o-xylene                    | 12.16 | 106  | 237933   | 25.153 | ug/L   | 95       |
| 56) Styrene                     | 12.18 | 104  | 409858   | 26.048 | ug/L   | 96       |
| 57) Isopropylbenzene            | 12.46 | 105  | 649997   | 24.819 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 120562   | 30.974 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 88549    | 30.948 | ug/L   | 98       |
| 62) Bromoform                   | 12.35 | 173  | 61926    | 27.320 | ug/L   | 100      |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 279814   | 24.472 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 278126   | 24.205 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 260308   | 25.909 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 19525    | 29.506 | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 180293   | 23.001 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 151214   | 23.437 | ug/L   | 95       |
| 69) Naphthalene                 | 15.36 | 128  | 349344   | 28.432 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 138254   | 25.375 | ug/L   | 98       |
| -----                           |       |      |          |        |        |          |

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





#2

Dichlorodifluoromethane

Concen: 20.745 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

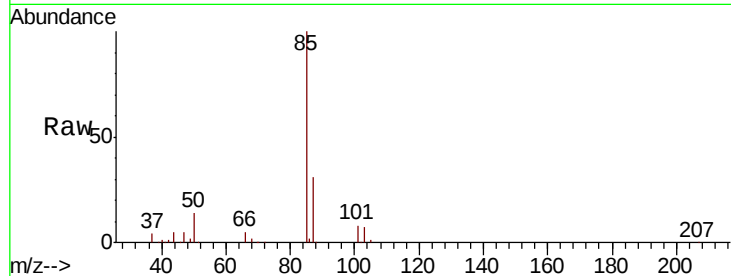
ClientSampleId :

Tot Ion: 85 Resp: 76030

Ion Ratio Lower Upper

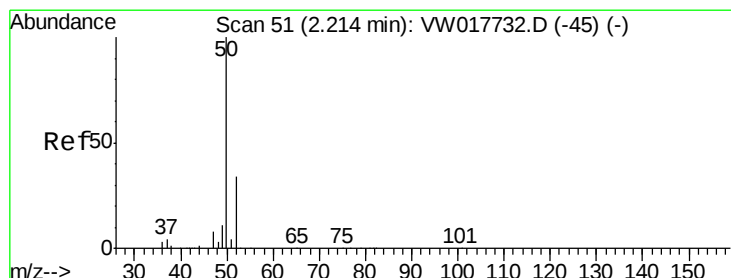
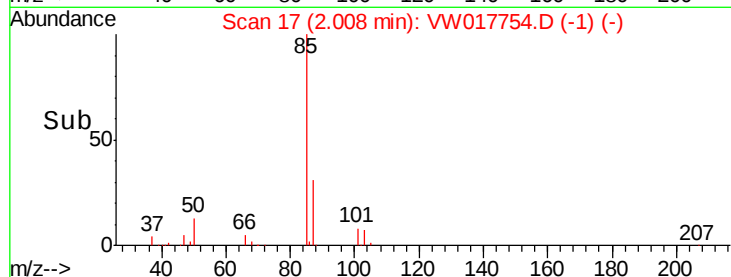
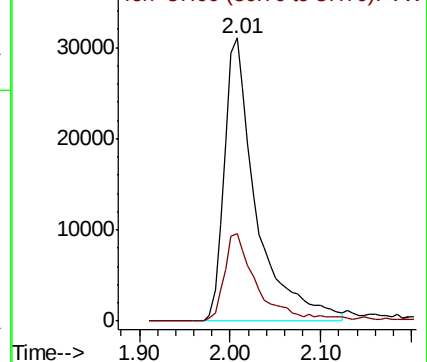
85 100

87 30.0 22.0 41.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.602 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW017754.D

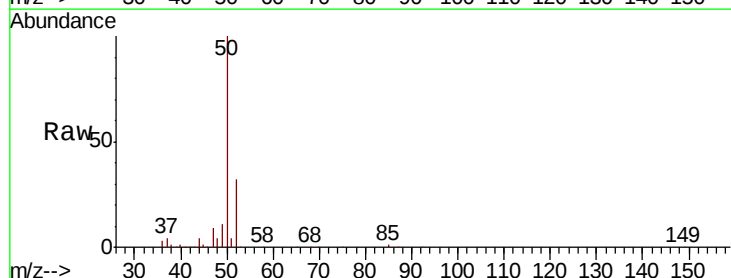
Acq: 24 Dec 2020 22:41

Tgt Ion: 50 Resp: 76888

Ion Ratio Lower Upper

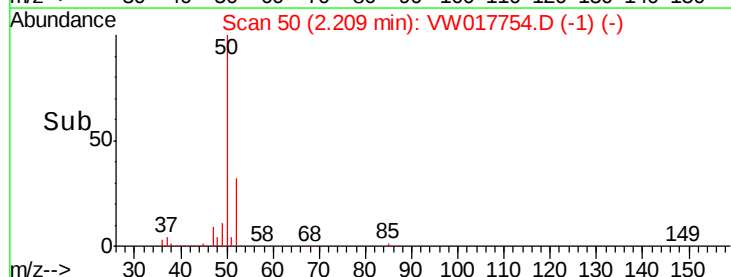
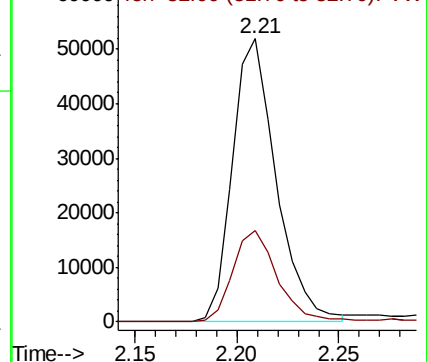
50 100

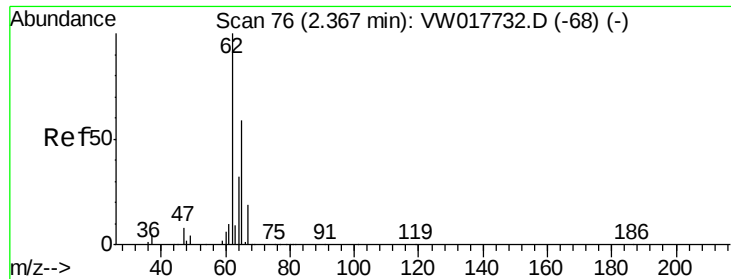
52 32.3 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 25.496 ug/L

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

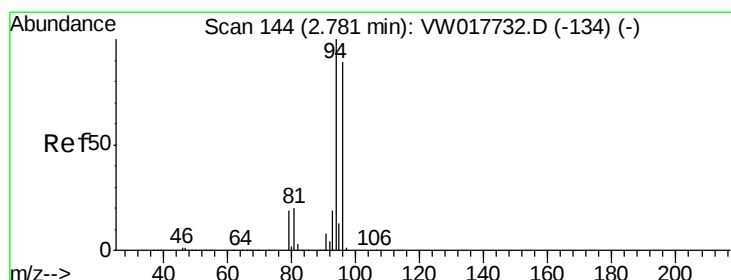
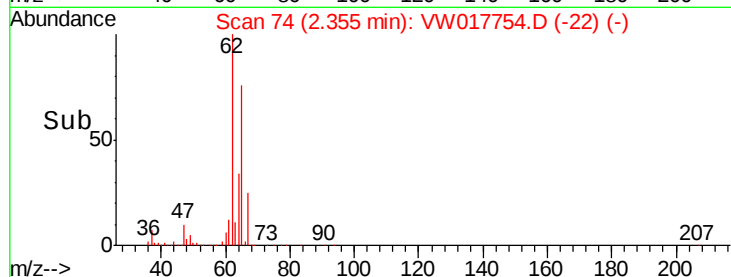
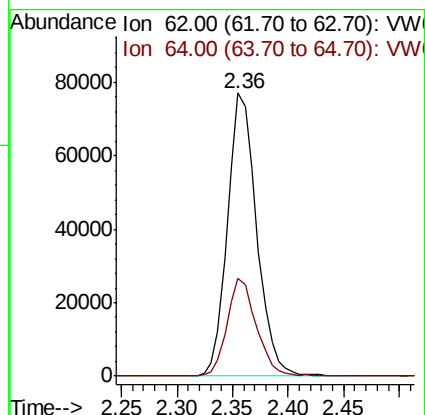
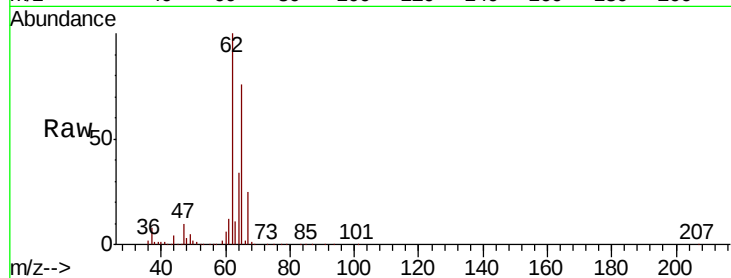
ClientSampled :

Tot Ion: 62 Resp: 140511

Ion Ratio Lower Upper

62 100

64 34.4 23.3 43.3



#6

Bromomethane

Concen: 26.377 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW017754.D

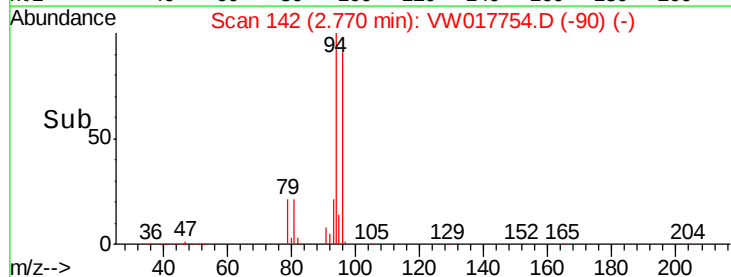
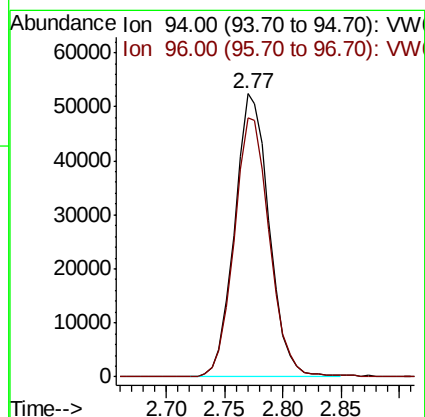
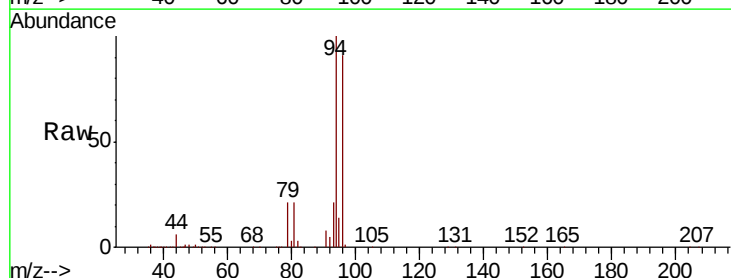
Acq: 24 Dec 2020 22:41

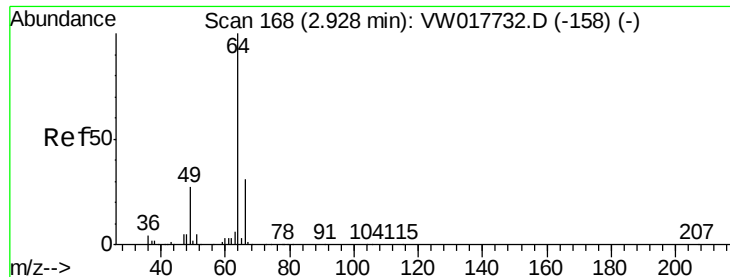
Tgt Ion: 94 Resp: 107796

Ion Ratio Lower Upper

94 100

96 94.1 9.4 178.6





#8

Chloroethane

Concen: 27.522 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

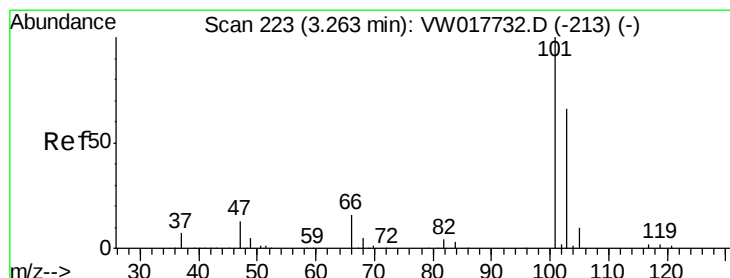
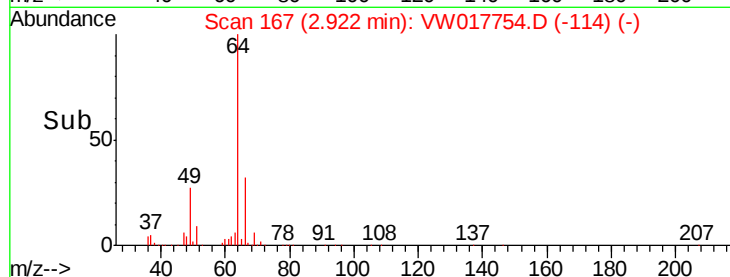
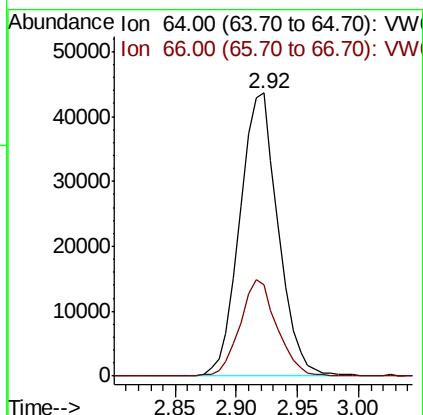
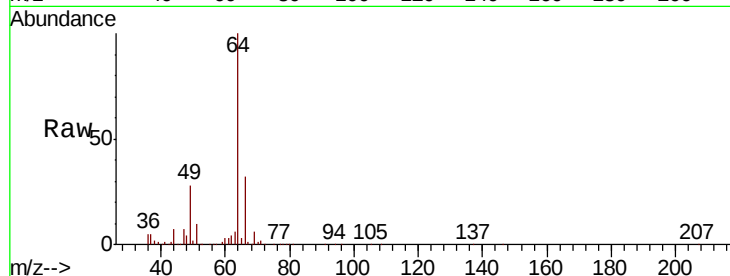
ClientSampleId :

Tot Ion: 64 Resp: 95096

Ion Ratio Lower Upper

64 100

66 32.3 22.3 41.5



#9

Trichlorofluoromethane

Concen: 18.882 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW017754.D

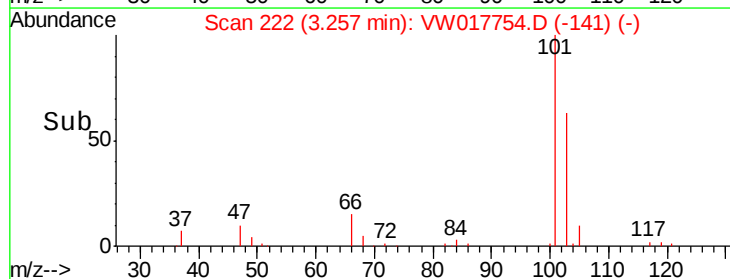
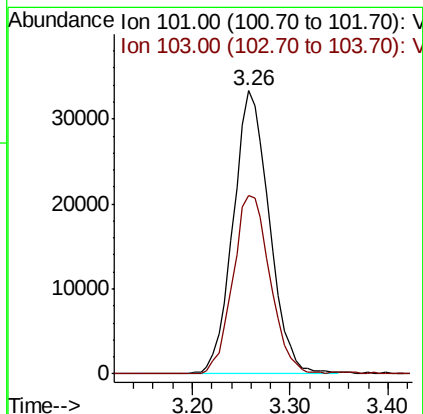
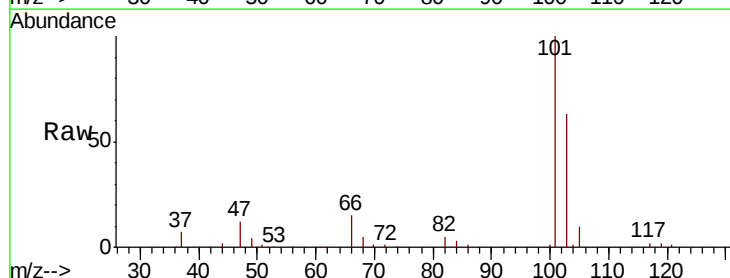
Acq: 24 Dec 2020 22:41

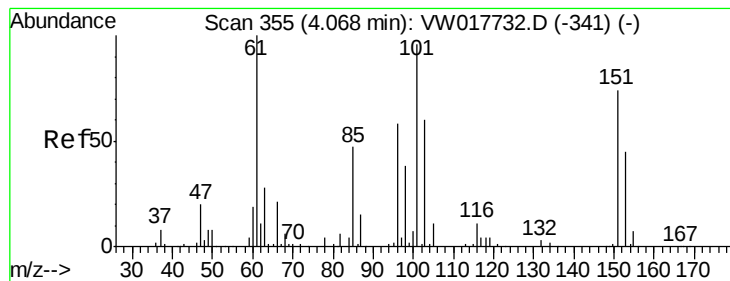
Tgt Ion: 101 Resp: 85375

Ion Ratio Lower Upper

101 100

103 64.9 46.0 85.4





#11

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

Concen: 26.216 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

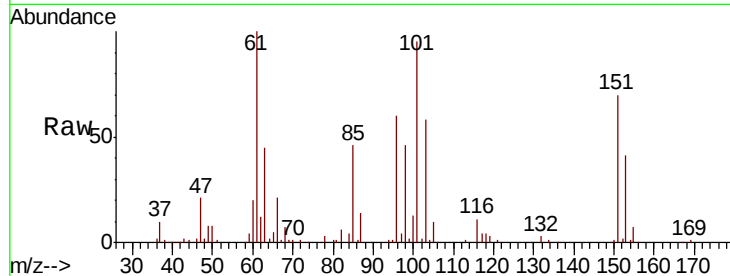
Tot Ion:101 Resp: 110632

Ion Ratio Lower Upper

101 100

85 47.6 36.7 55.1

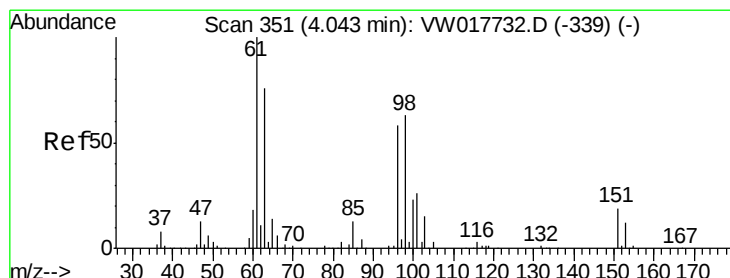
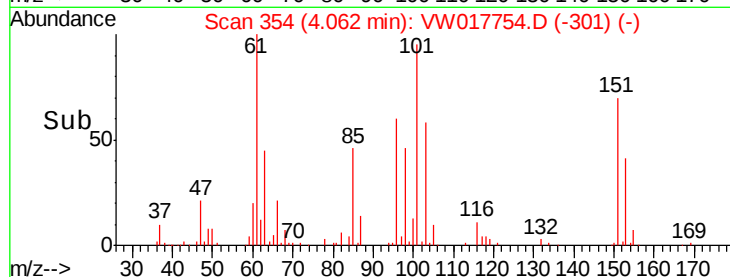
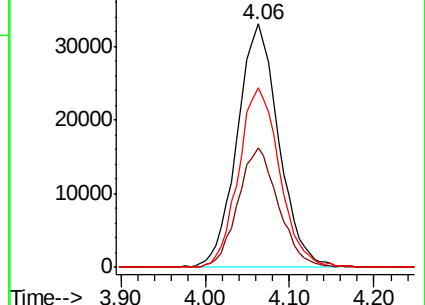
151 72.9 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.301 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

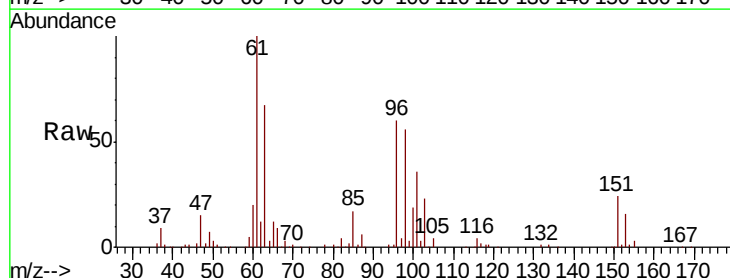
Tgt Ion: 96 Resp: 107600

Ion Ratio Lower Upper

96 100

61 166.5 126.1 234.1

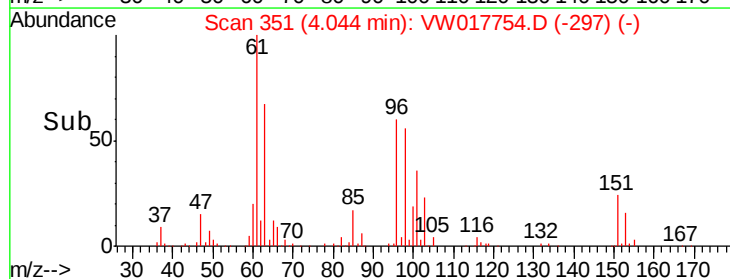
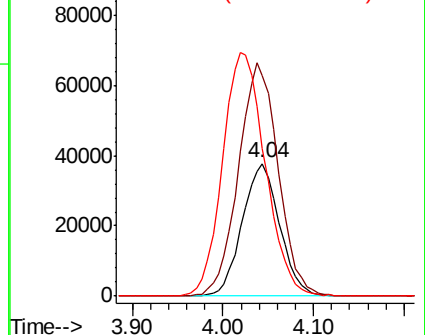
63 111.5 90.0 167.2

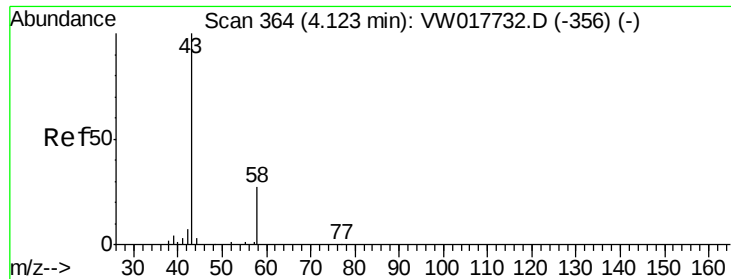


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

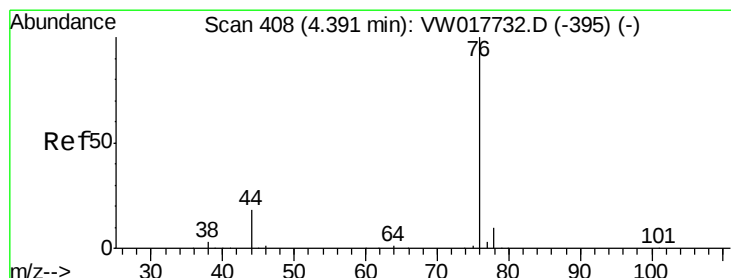
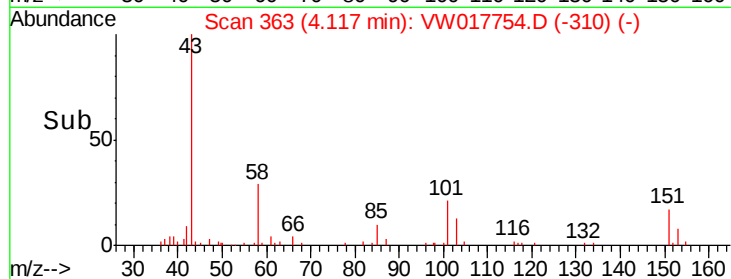
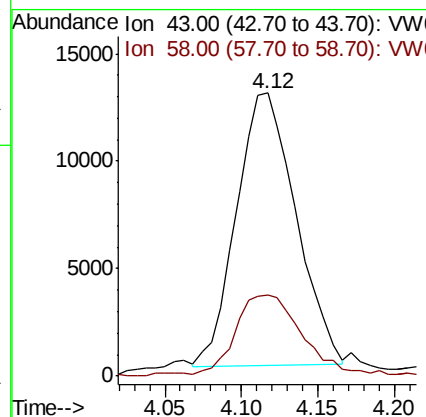
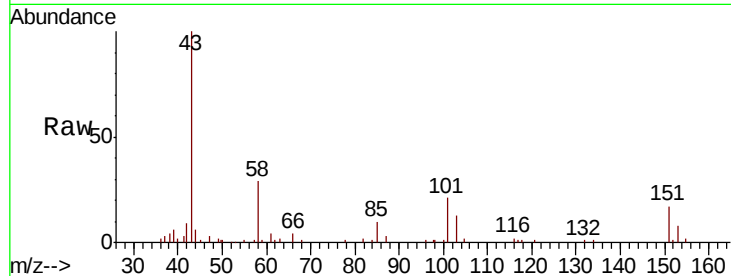




#13  
Acetone  
Concen: 47.575 ug/L  
RT: 4.12 min Scan# 363  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

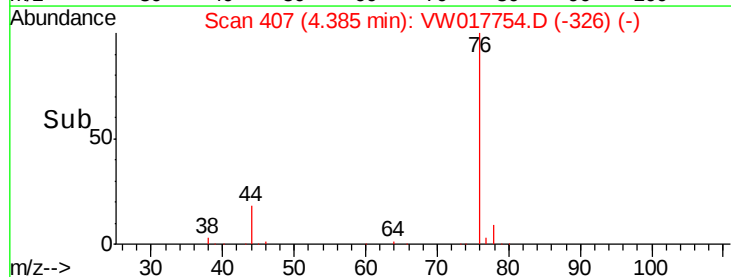
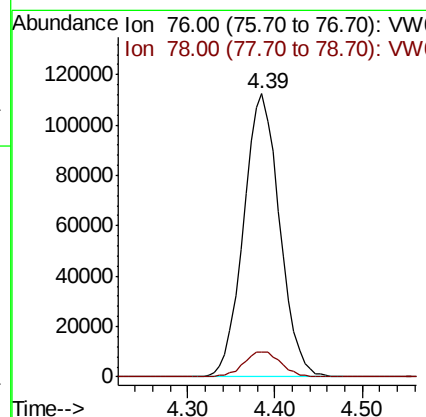
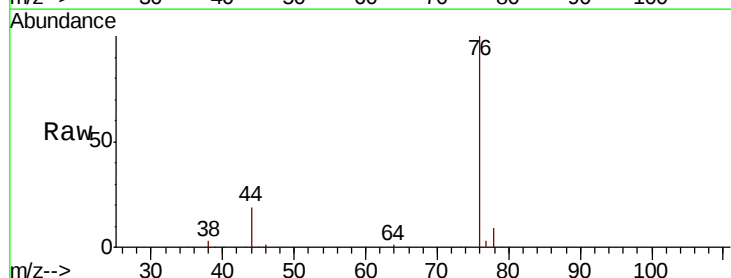
Instrument :  
MSVOA\_W  
ClientSampled :

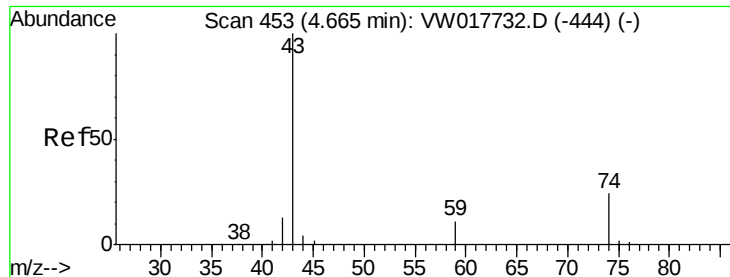
Tot Ion: 43 Resp: 34199  
Ion Ratio Lower Upper  
43 100  
58 32.9 0.0 60.8



#14  
Carbon disulfide  
Concen: 26.308 ug/L  
RT: 4.39 min Scan# 407  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion: 76 Resp: 321386  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.1 10.7





#15

Methvl Acetate

Concen: 32.309 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

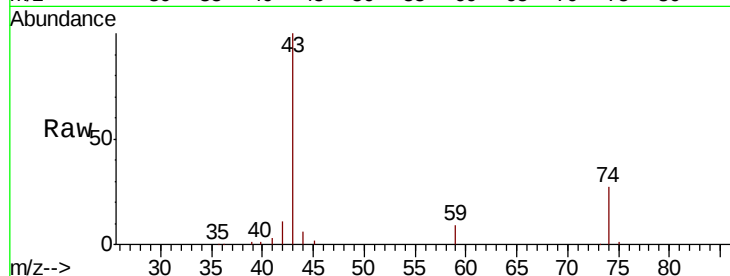
ClientSampleId :

Tot Ion: 43 Resp: 45014

Ion Ratio Lower Upper

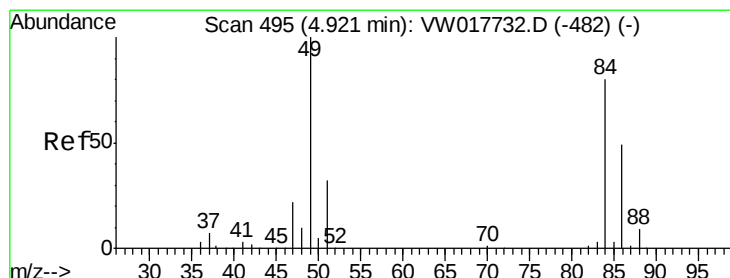
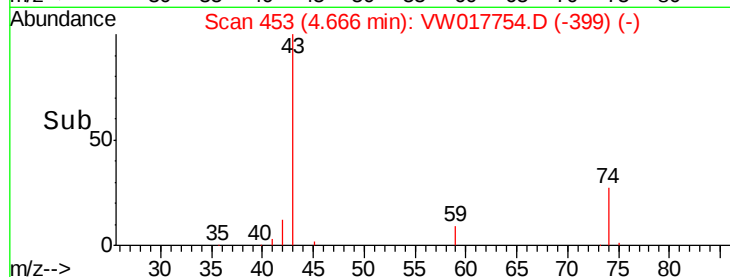
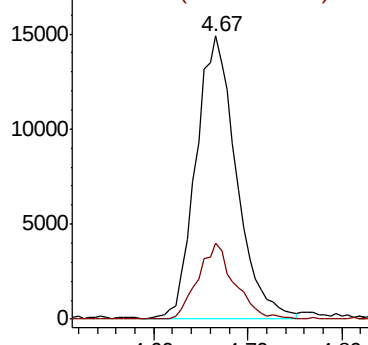
43 100

74 23.5 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 23.922 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

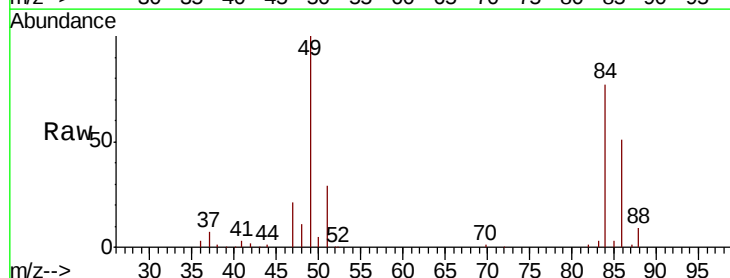
Tgt Ion: 84 Resp: 113556

Ion Ratio Lower Upper

84 100

49 129.5 90.5 168.1

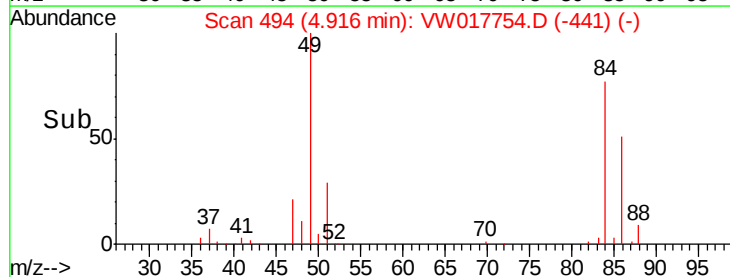
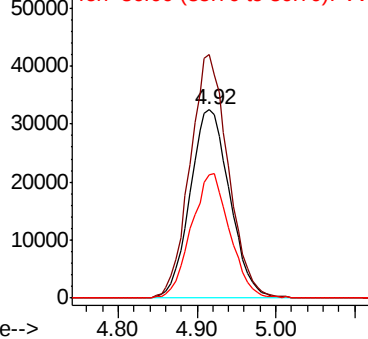
86 65.5 44.8 83.2

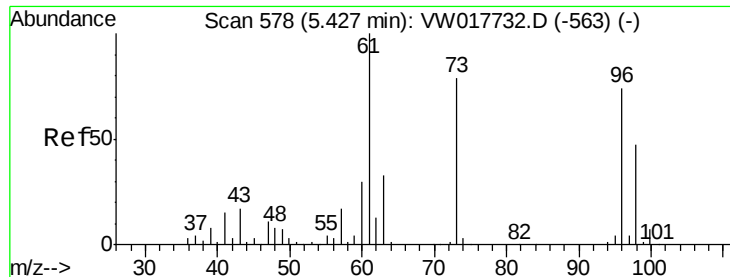


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

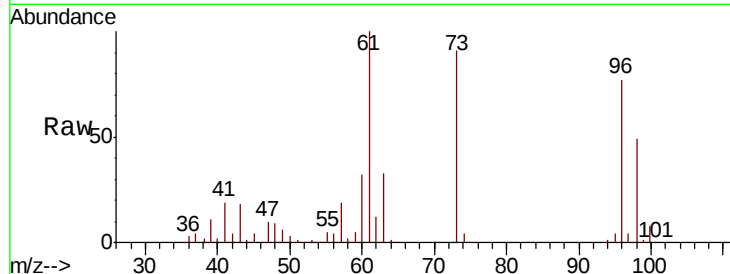




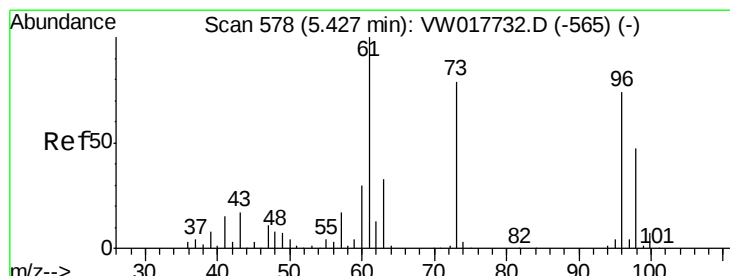
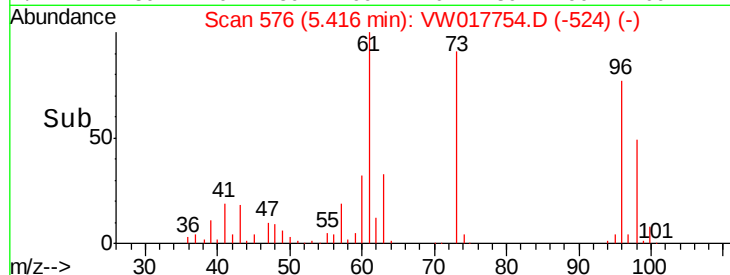
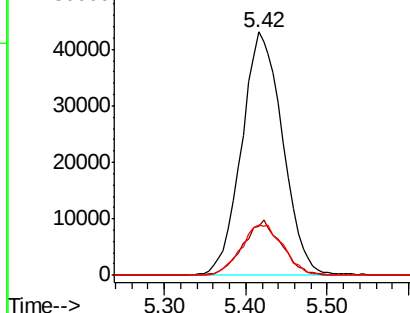
#17  
Methvl tert-butvl Ether  
Concen: 29.055 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 73 Resp: 150642  
Ion Ratio Lower Upper  
73 100  
43 21.5 17.1 25.7  
57 21.4 16.6 25.0

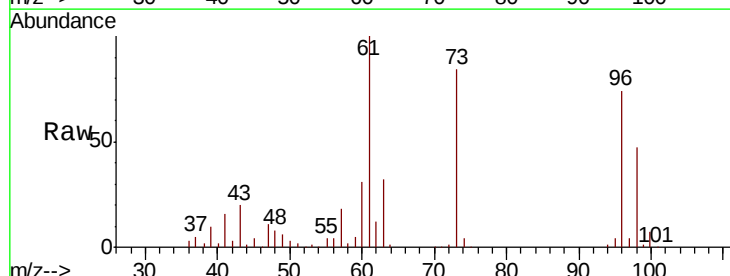


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

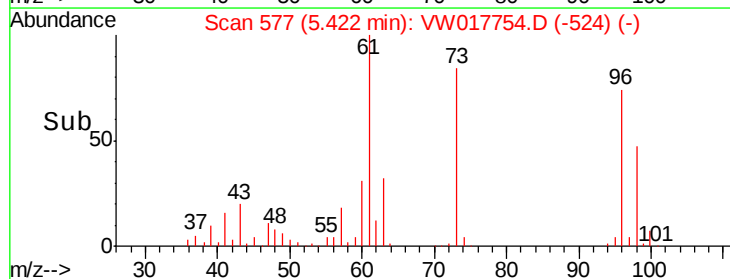
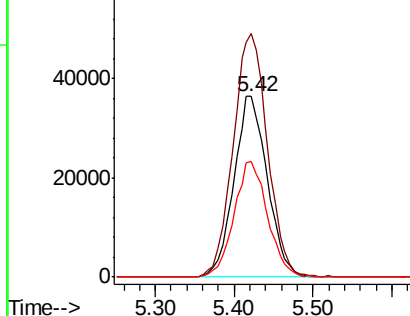


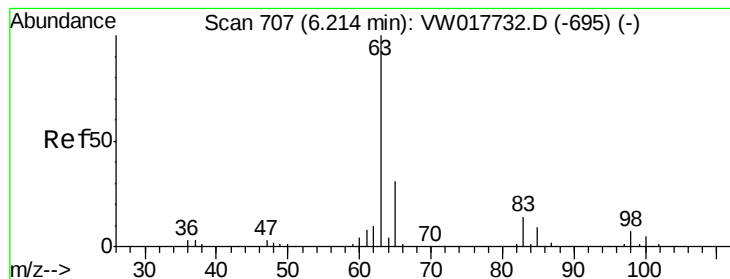
#18  
trans-1,2-Dichloroethene  
Concen: 24.321 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion: 96 Resp: 107322  
Ion Ratio Lower Upper  
96 100  
61 134.7 99.5 184.9  
98 63.9 45.8 85.2



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: 25.450 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

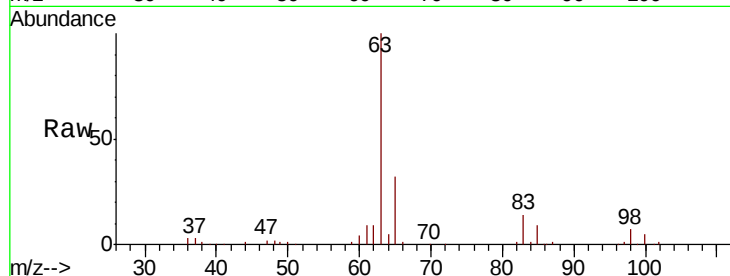
Tot Ion: 63 Resp: 191865

Ion Ratio Lower Upper

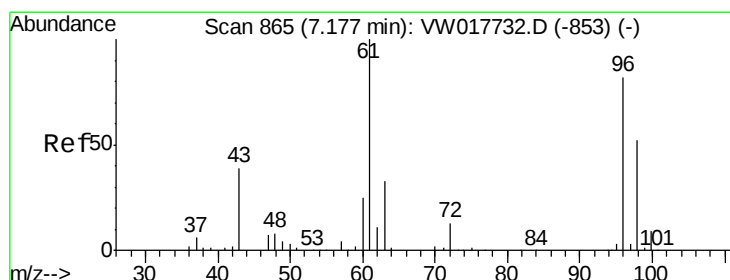
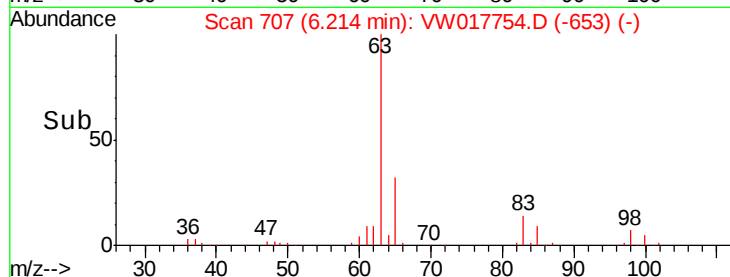
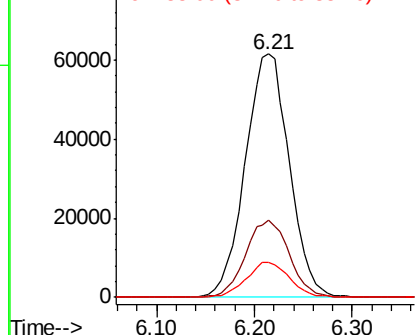
63 100

65 31.9 21.9 40.7

83 14.5 10.0 18.6



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: 64.853 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW017754.D

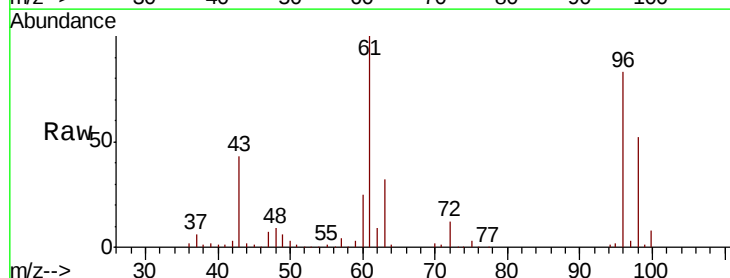
Acq: 24 Dec 2020 22:41

Tgt Ion: 43 Resp: 62707

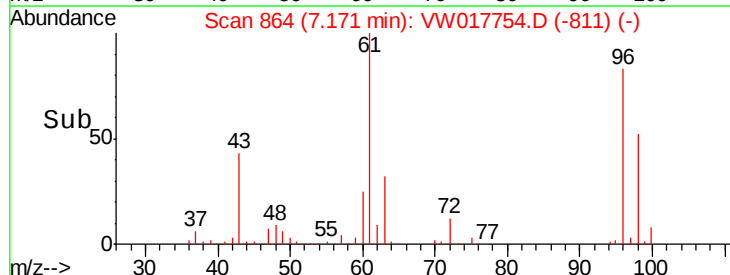
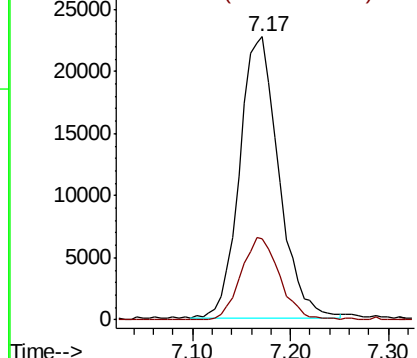
Ion Ratio Lower Upper

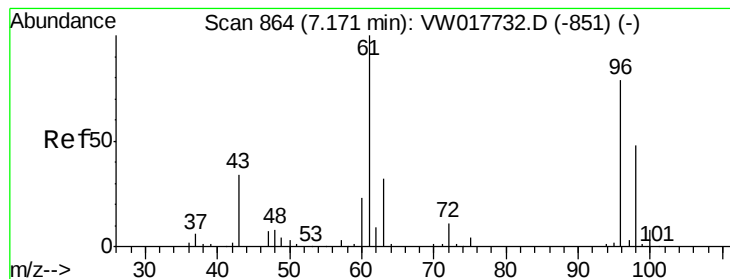
43 100

72 29.2 15.4 46.2



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



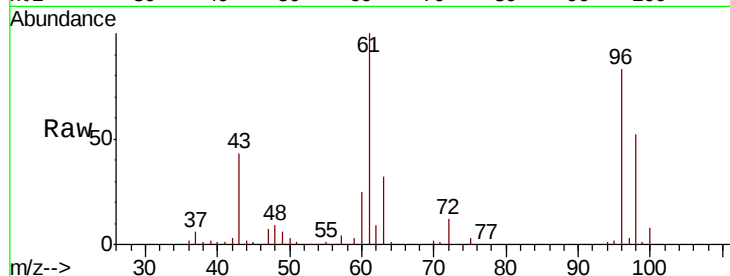


#22

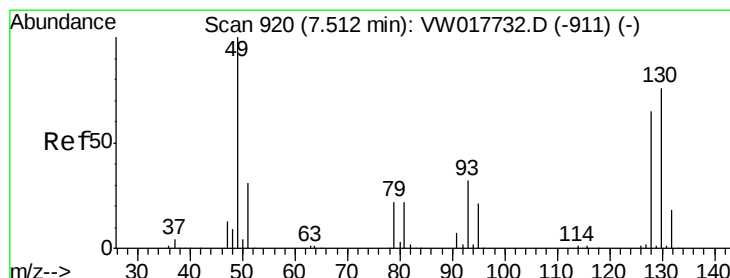
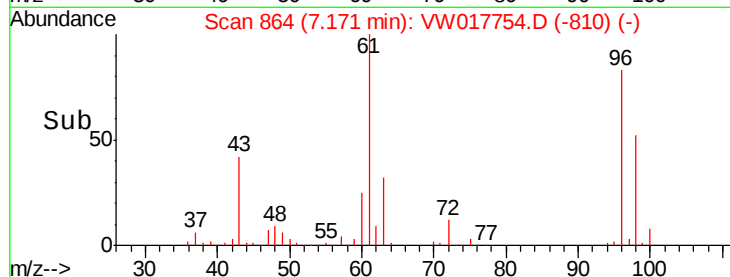
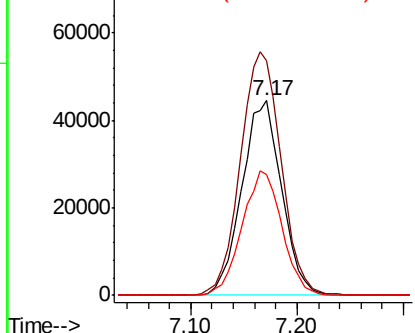
cis-1,2-Dichloroethene  
 Concen: 25.163 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 96 Resp: 116676  
 Ion Ratio Lower Upper  
 96 100  
 61 120.3 88.2 163.8  
 98 62.2 43.7 81.1



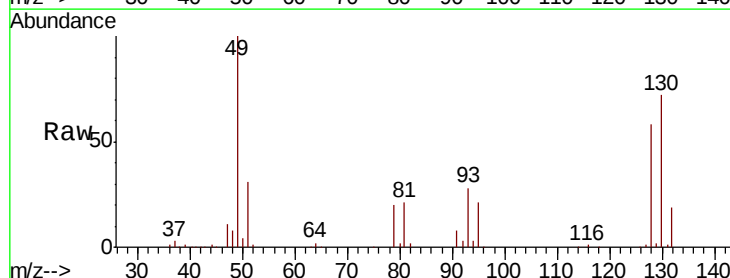
Abundance Ion 96.00 (95.70 to 96.70): VW  
 Ion 61.00 (60.70 to 61.70): VW  
 Ion 98.00 (97.70 to 98.70): VW



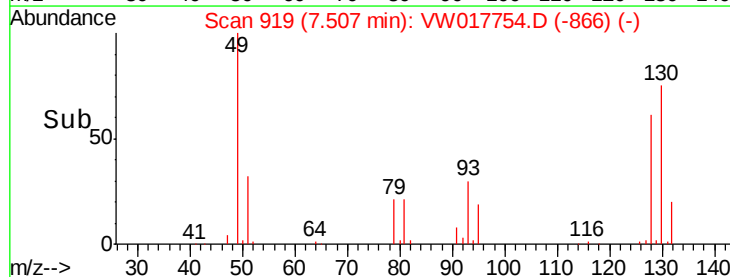
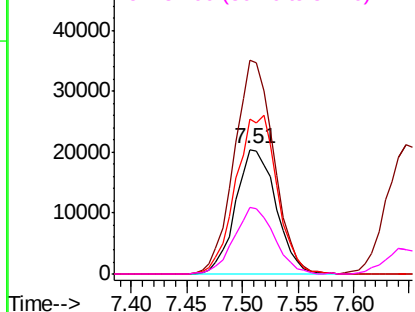
#23

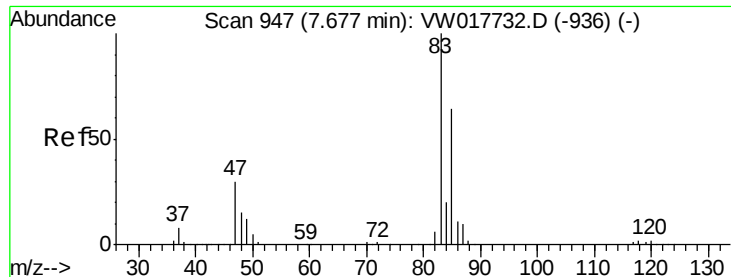
Bromochloromethane  
 Concen: 26.362 ug/L  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.01 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

Tgt Ion: 128 Resp: 51781  
 Ion Ratio Lower Upper  
 128 100  
 49 171.3 98.3 182.5  
 130 124.2 84.4 156.7  
 51 53.7 35.0 52.4#



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

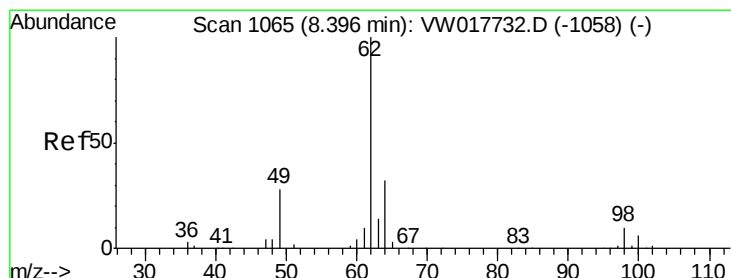
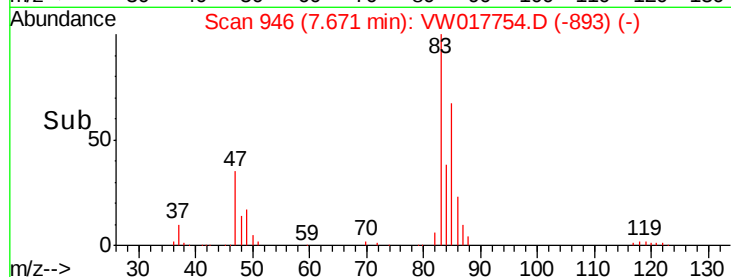
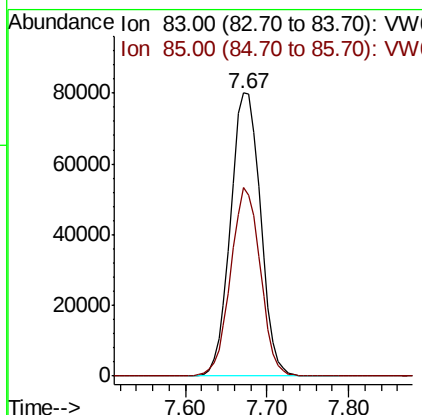
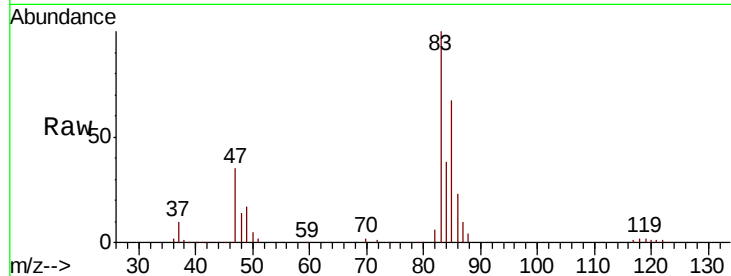




#25  
Chloroform  
Concen: 25.598 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

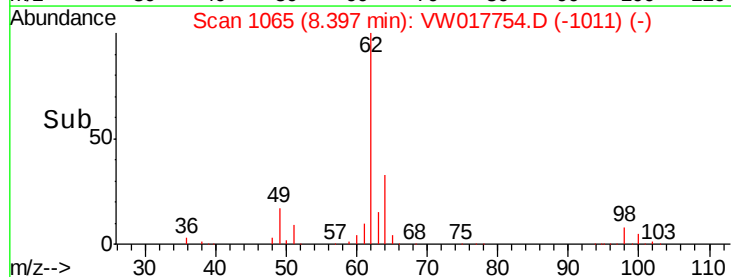
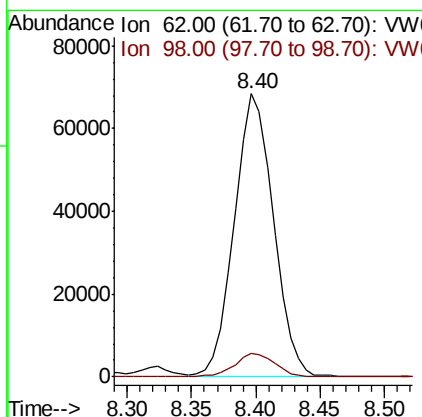
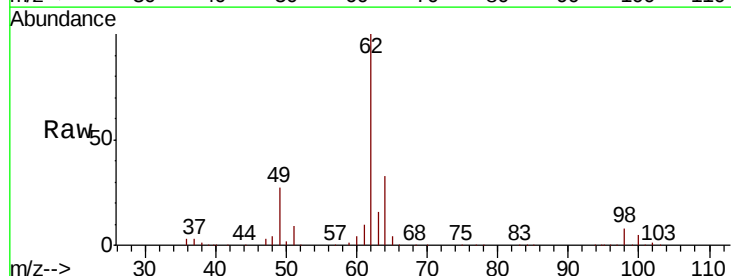
Instrument :  
MSVOA\_W  
ClientSampleId :

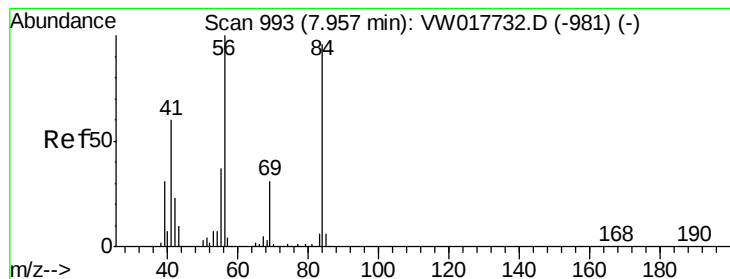
Tot Ion: 83 Resp: 203061  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.7 84.9



#27  
1,2-Dichloroethane  
Concen: 28.140 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion: 62 Resp: 144397  
Ion Ratio Lower Upper  
62 100  
98 8.4 6.3 9.5





#30

Cyclohexane

Concen: 22.321 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :  
MSVOA\_W  
ClientSampled :

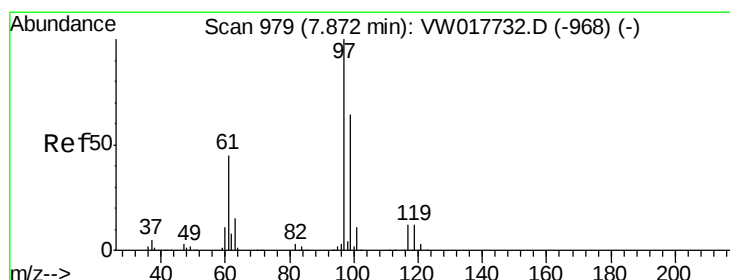
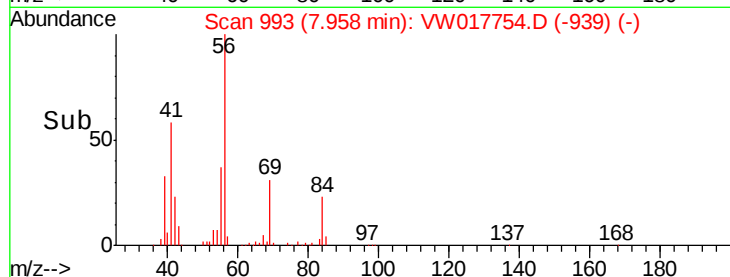
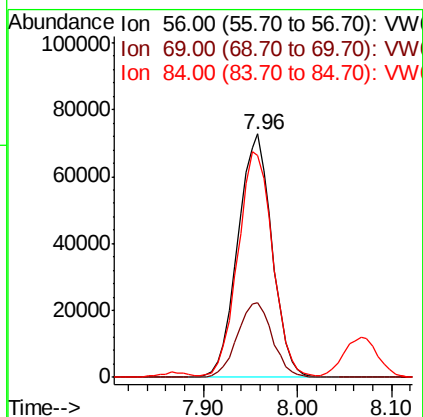
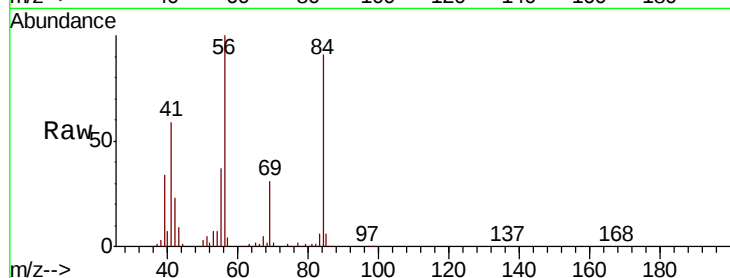
Tot Ion: 56 Resp: 184671

Ion Ratio Lower Upper

56 100

69 31.6 25.0 37.4

84 94.7 76.6 115.0



#31

1,1,1-Trichloroethane

Concen: 22.468 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

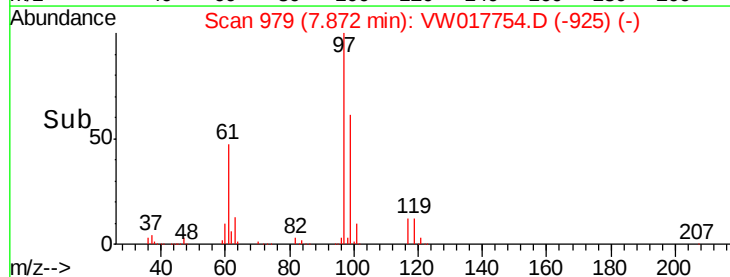
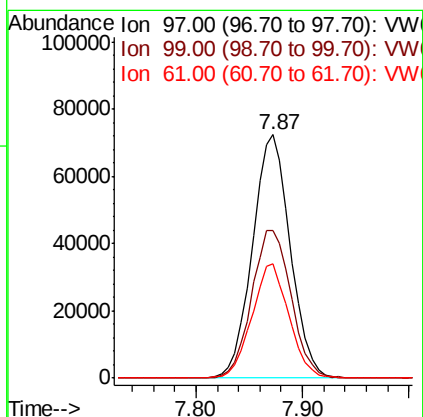
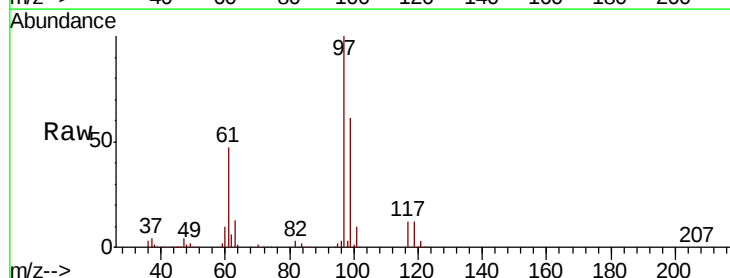
Tgt Ion: 97 Resp: 179640

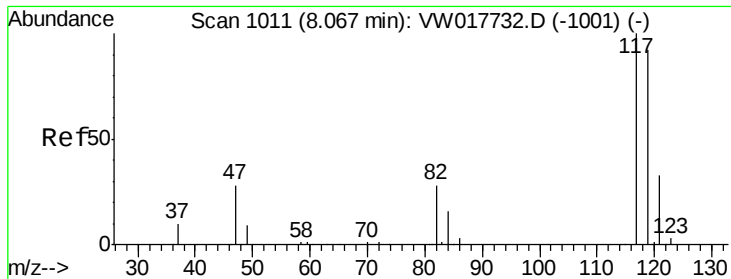
Ion Ratio Lower Upper

97 100

99 63.4 51.1 76.7

61 46.1 35.8 53.8





#32

Carbon tetrachloride

Concen: 21.991 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

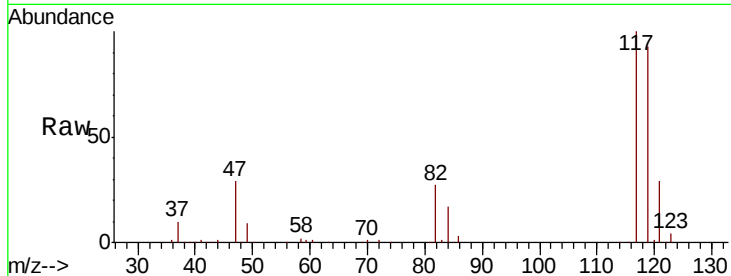
ClientSampleId :

Tot Ion:117 Resp: 165885

Ion Ratio Lower Upper

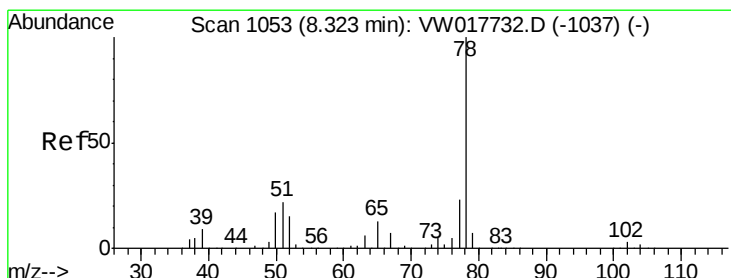
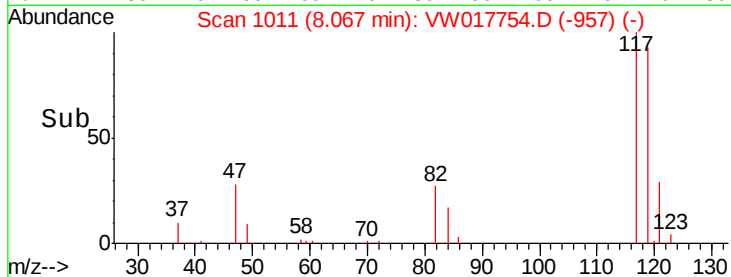
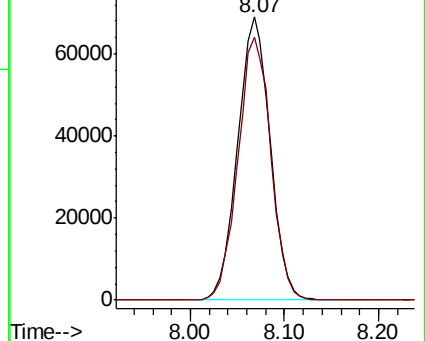
117 100

119 94.0 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.075 ug/L

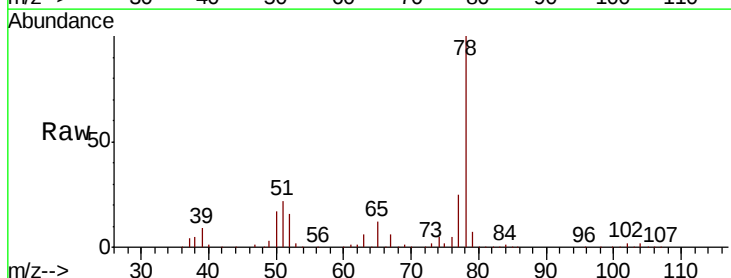
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

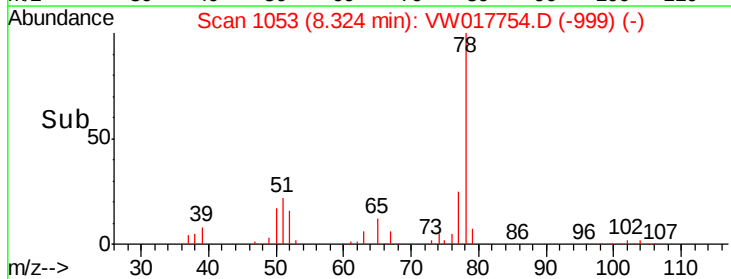
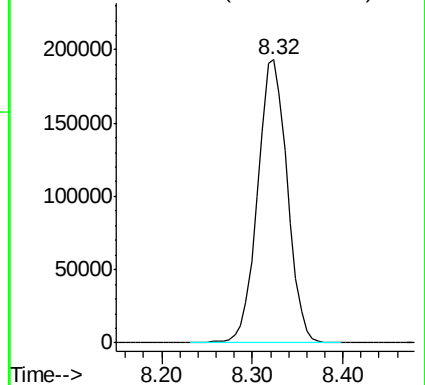
Lab File: VW017754.D

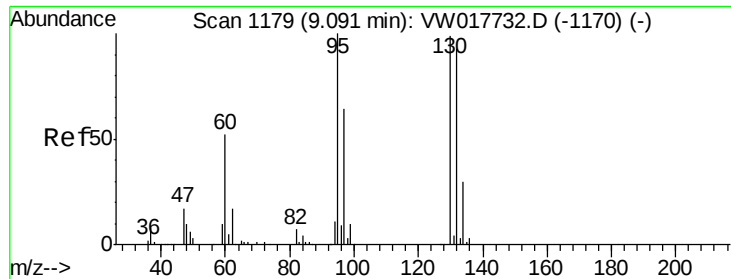
Acq: 24 Dec 2020 22:41

Tgt Ion: 78 Resp: 438715



Abundance Ion 78.00 (77.70 to 78.70): VW

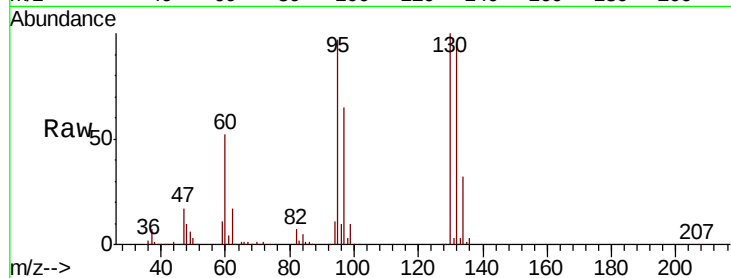




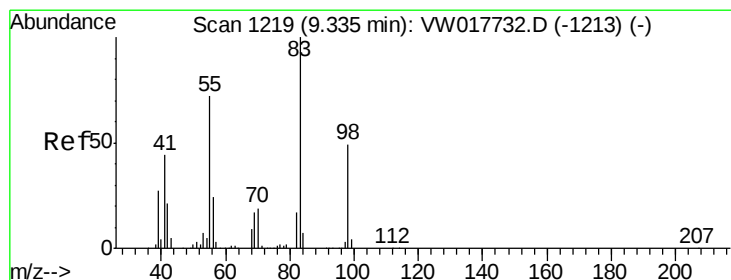
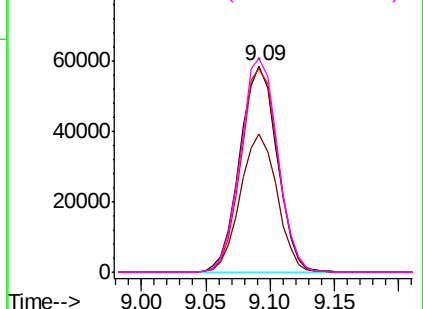
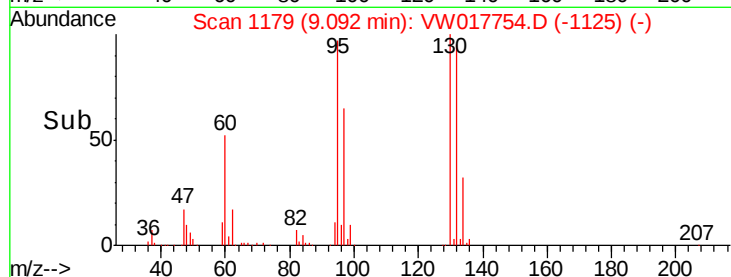
#35  
 Trichloroethene  
 Concen: 21.342 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 117400 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 66.2  | 46.8  | 87.0   |
| 132      | 97.9  | 68.3  | 126.9  |
| 130      | 103.3 | 71.8  | 133.4  |

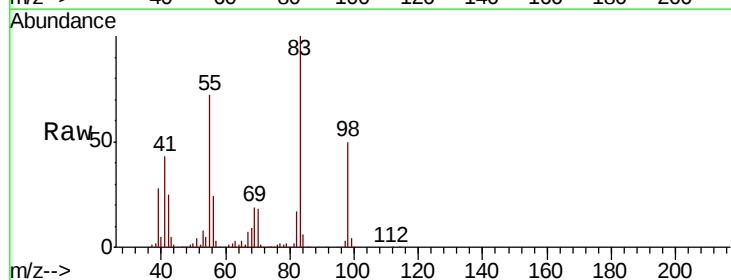


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

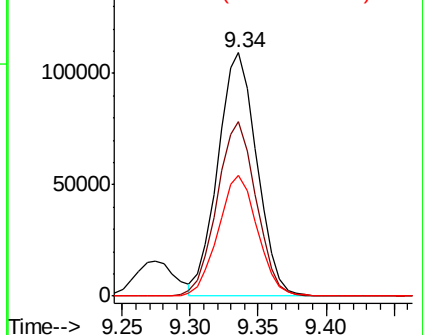
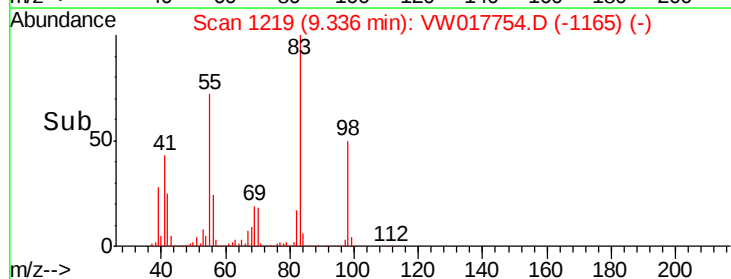


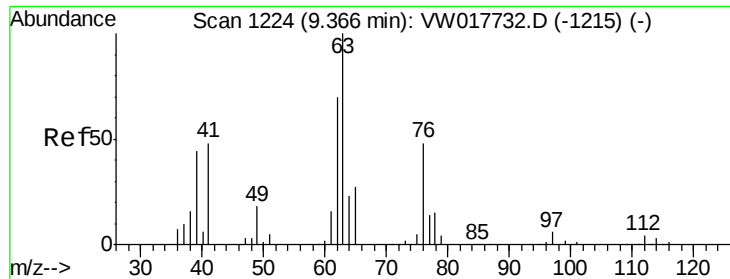
#36  
 Methylcyclohexane  
 Concen: 22.695 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 218244 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 72.0  | 57.6  | 86.4   |
| 98       | 50.1  | 39.7  | 59.5   |



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

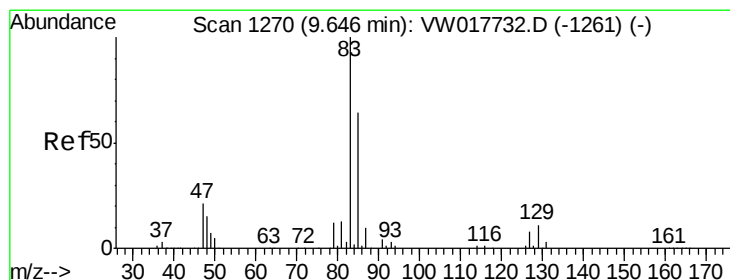
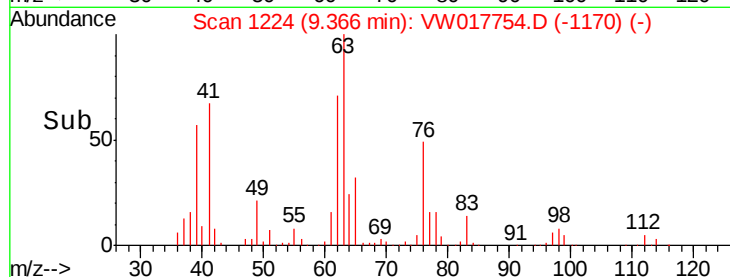
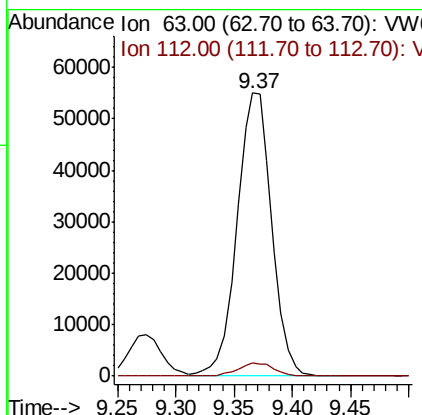
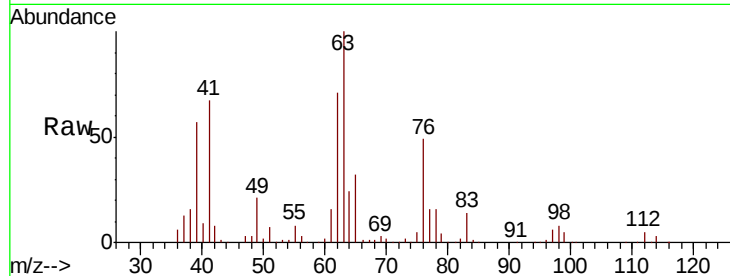




#40  
 1,2-Dichloropropane  
 Concen: 24.260 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

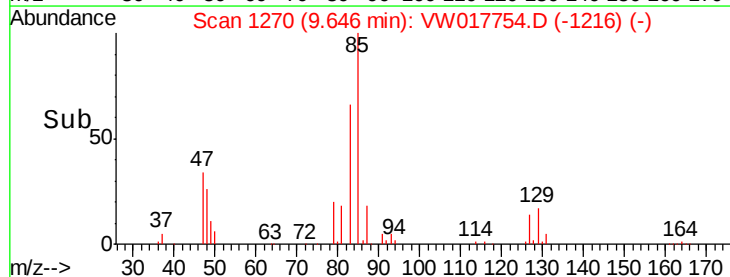
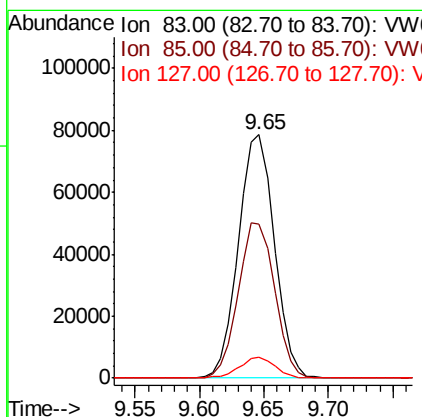
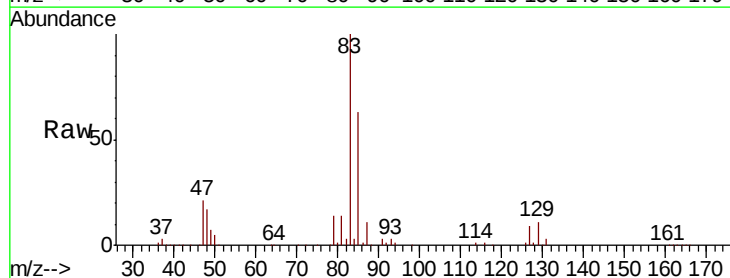
Instrument :  
 MSVOA\_W  
 ClientSampleId :

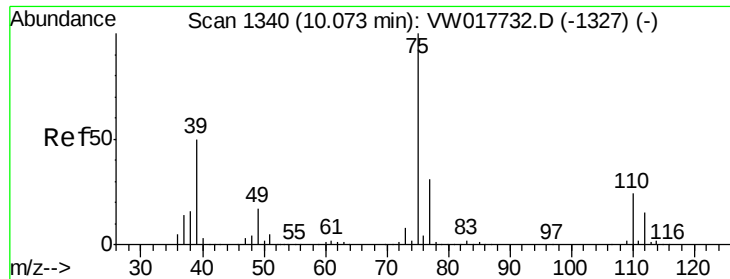
Tot Ion: 63 Resp: 113818  
 Ion Ratio Lower Upper  
 63 100  
 112 4.8 3.6 5.4



#41  
 Bromodichloromethane  
 Concen: 23.661 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

Tgt Ion: 83 Resp: 151954  
 Ion Ratio Lower Upper  
 83 100  
 85 63.1 44.5 82.7  
 127 8.8 6.9 10.3





#42

cis-1,3-Dichloropropene

Concen: 24.240 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

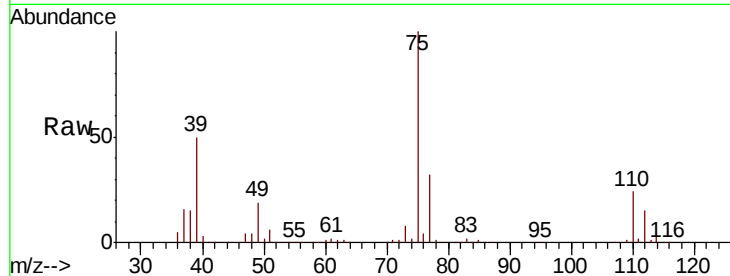
ClientSampled :

Tot Ion: 75 Resp: 181480

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

80000

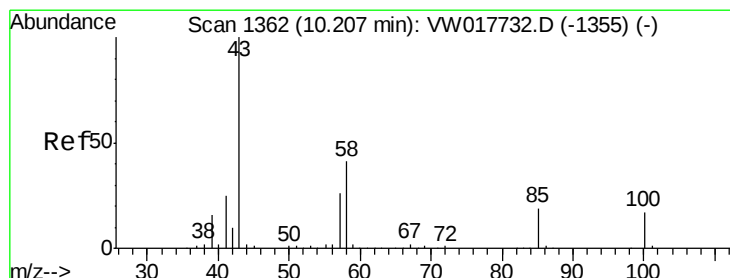
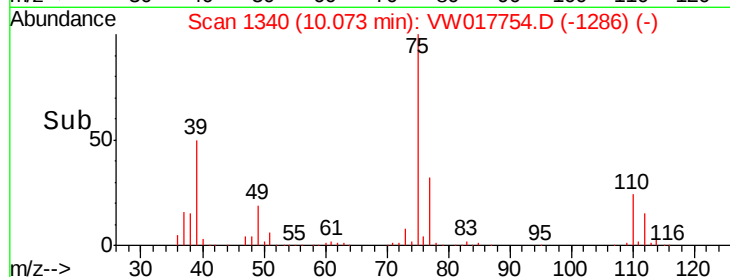
60000

40000

20000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 66.347 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

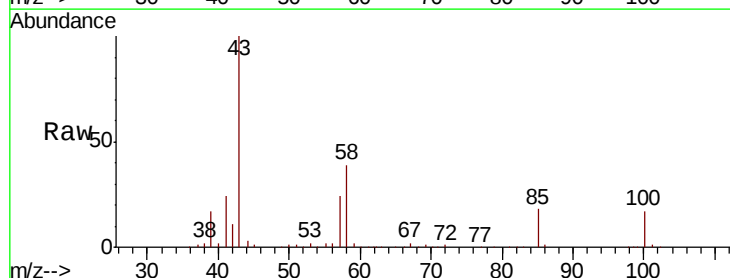
Tgt Ion: 43 Resp: 151228

Ion Ratio Lower Upper

43 100

58 38.8 31.0 46.4

100 16.7 13.5 20.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

200000

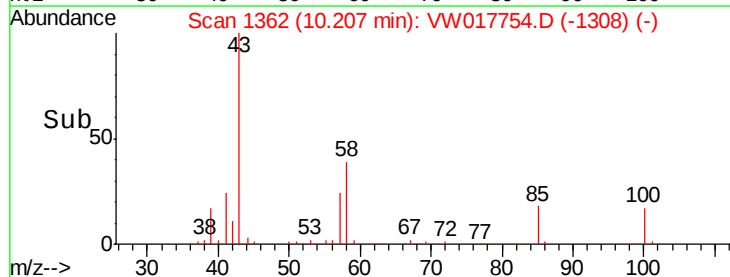
150000

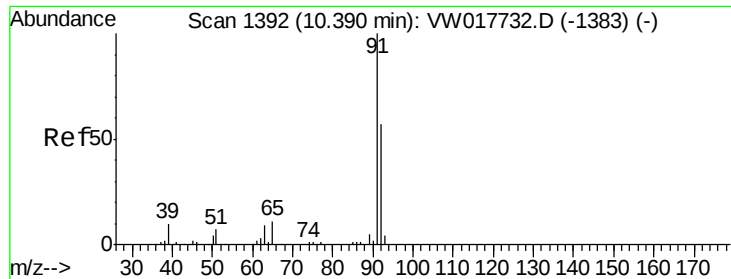
100000

50000

0

Time-->





#44

Toluene

Concen: 23.756 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

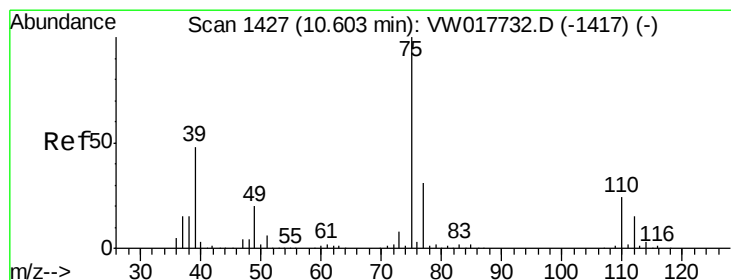
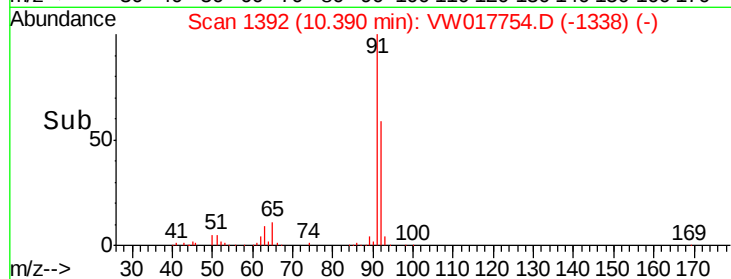
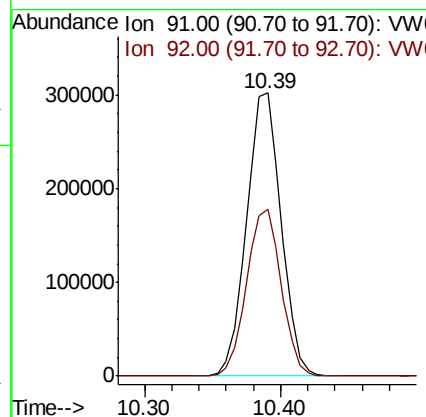
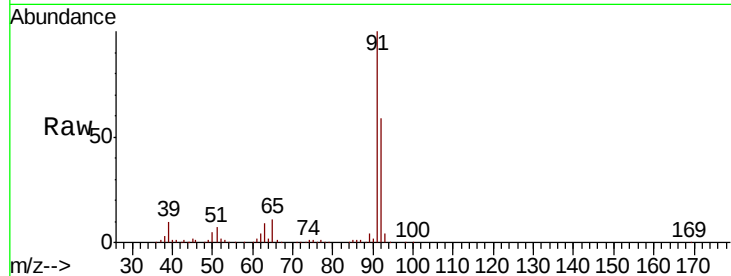
ClientSampleId :

Tot Ion: 91 Resp: 538369

Ion Ratio Lower Upper

91 100

92 58.9 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 25.891 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW017754.D

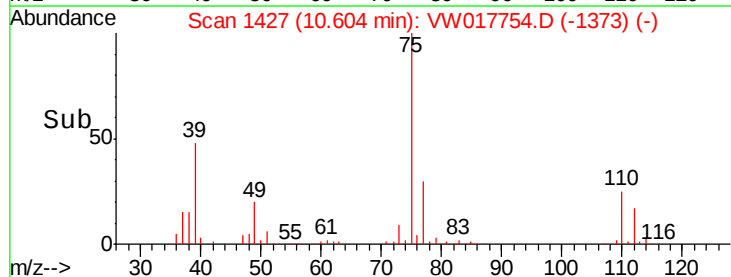
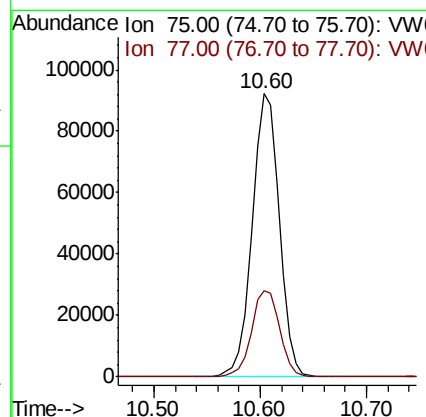
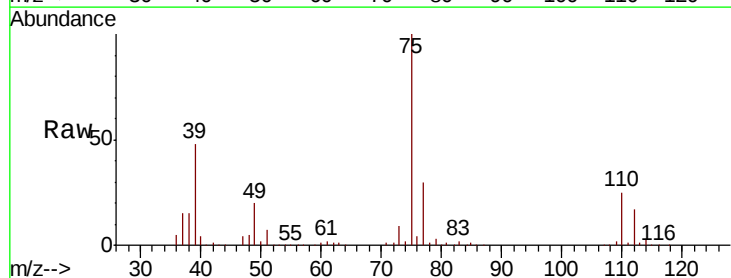
Acq: 24 Dec 2020 22:41

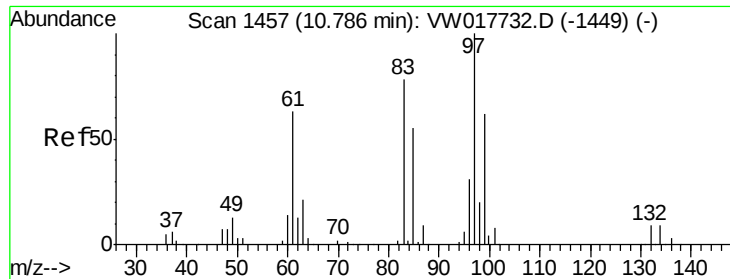
Tgt Ion: 75 Resp: 165067

Ion Ratio Lower Upper

75 100

77 30.4 21.6 40.0





#46

1,1,2-Trichloroethane

Concen: 26.326 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 91806

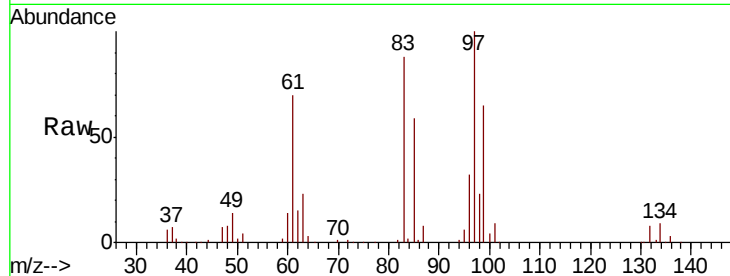
Ion Ratio Lower Upper

97 100

83 88.2 58.9 109.5

85 59.0 37.1 68.9

99 65.3 42.7 79.3



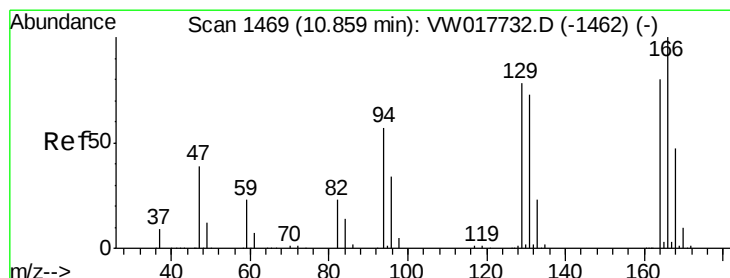
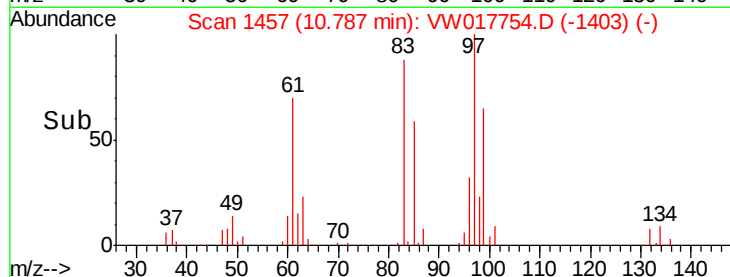
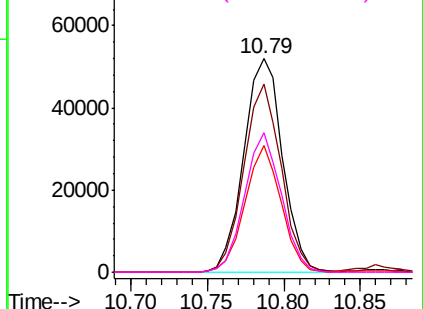
Abundance

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: 22.475 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Tgt Ion: 164 Resp: 96662

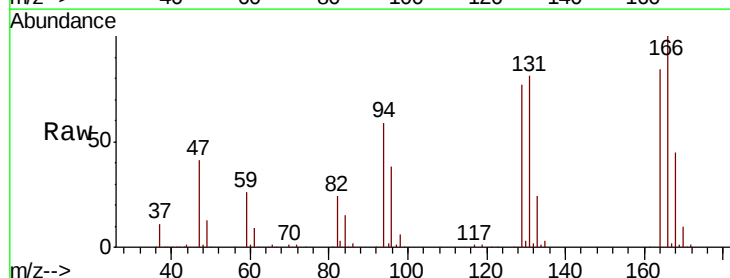
Ion Ratio Lower Upper

164 100

129 91.3 62.9 116.9

131 96.4 63.8 118.6

166 118.5 87.4 162.2



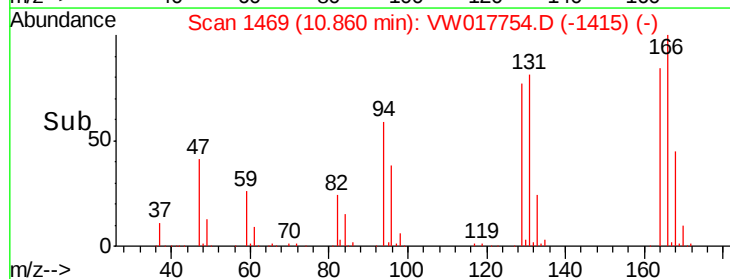
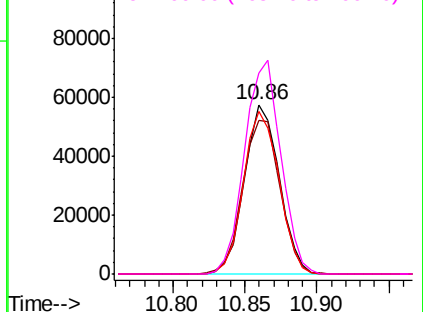
Abundance

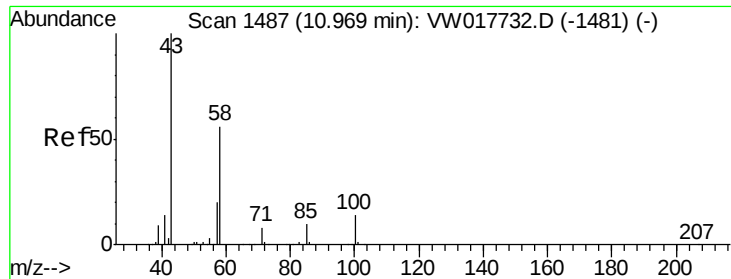
Ion 164.00 (163.70 to 164.70): V

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: 67.756 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 109573

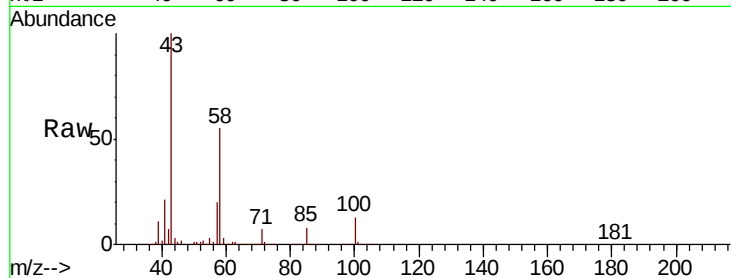
Ion Ratio Lower Upper

43 100

58 53.1 44.2 66.4

57 19.7 16.1 24.1

100 13.2 11.0 16.4



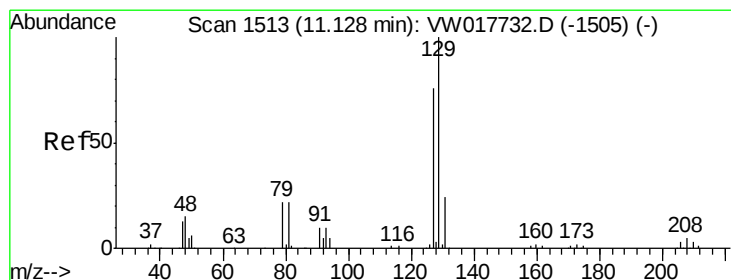
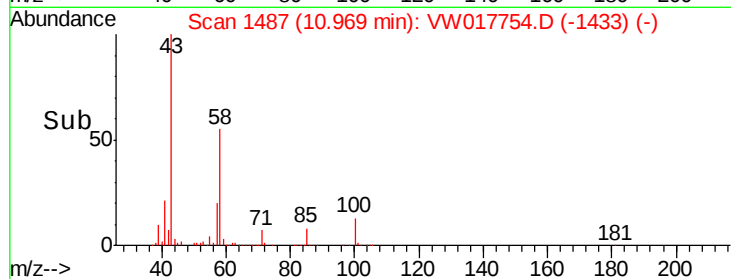
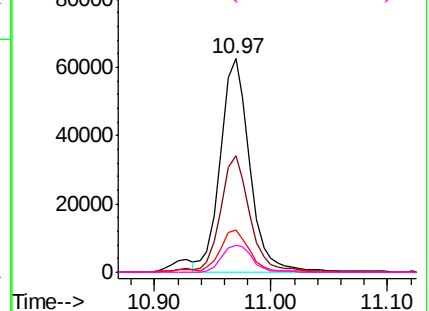
Abundance

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: 26.429 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW017754.D

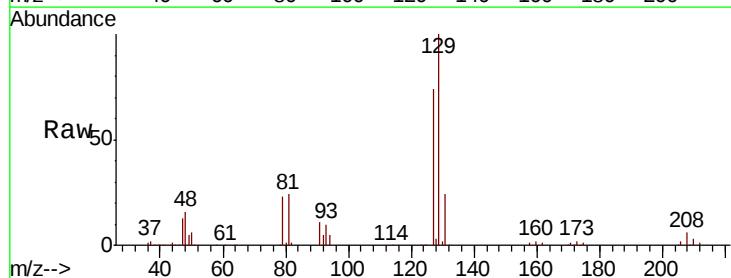
Acq: 24 Dec 2020 22:41

Tgt Ion: 129 Resp: 109421

Ion Ratio Lower Upper

129 100

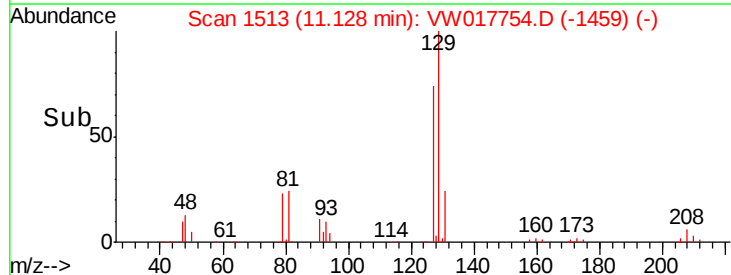
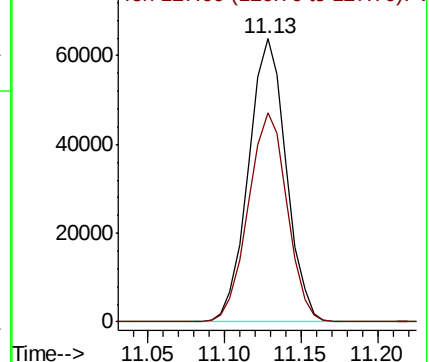
127 74.1 56.1 104.3

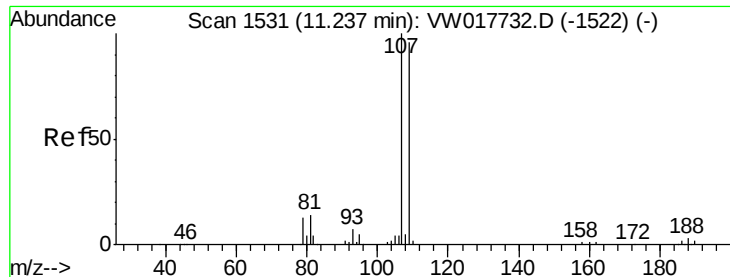


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

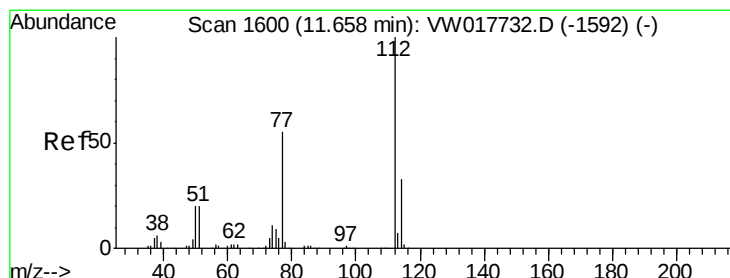
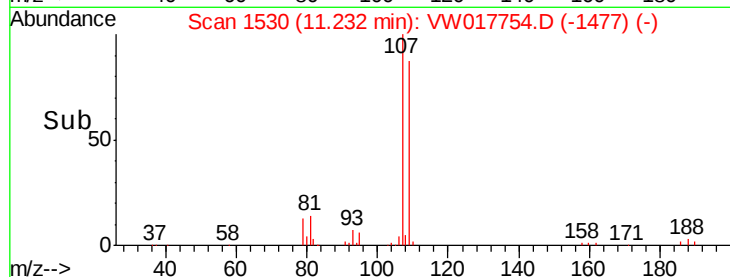
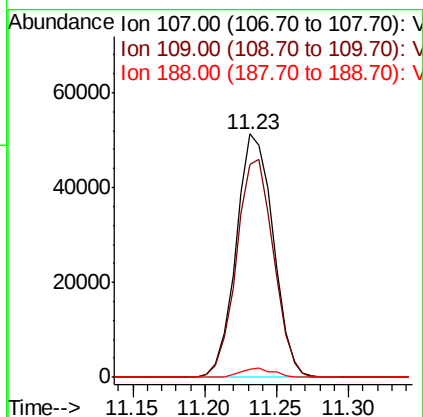
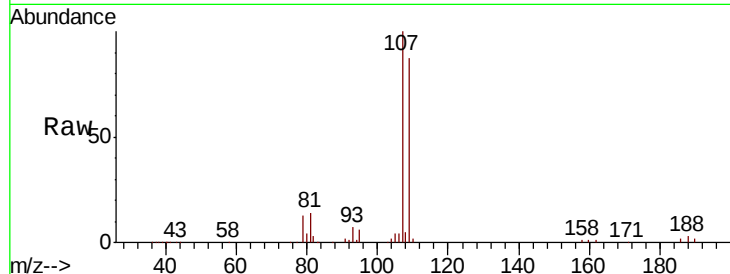




#51  
1,2-Dibromoethane  
Concen: 27.770 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

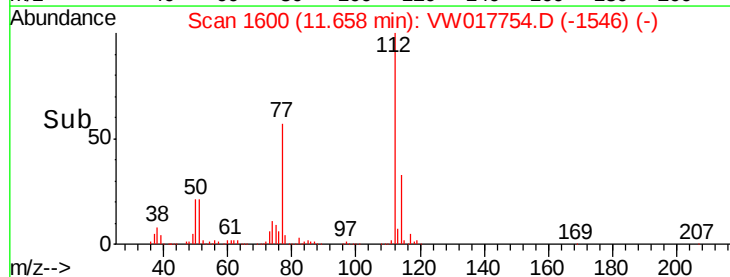
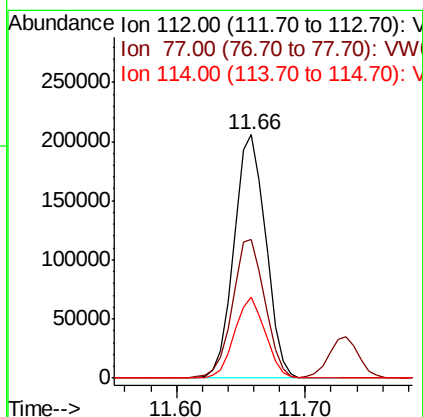
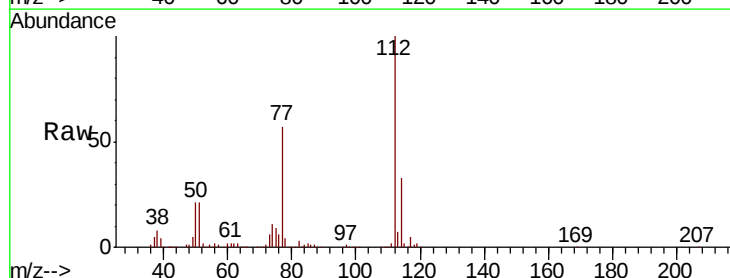
Instrument :  
MSVOA\_W  
ClientSampleId :

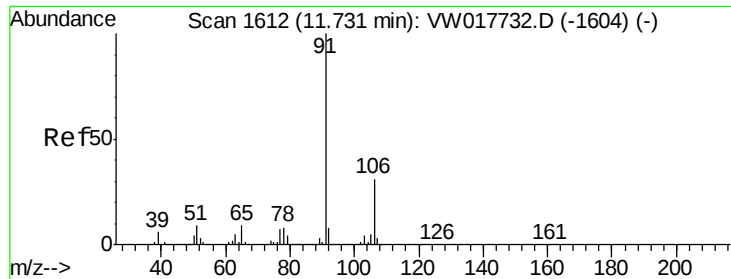
Tot Ion:107 Resp: 91683  
Ion Ratio Lower Upper  
107 100  
109 87.3 68.5 127.1  
188 3.1 2.7 4.1



#52  
Chlorobenzene  
Concen: 24.840 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion:112 Resp: 351407  
Ion Ratio Lower Upper  
112 100  
77 57.2 43.4 65.2  
114 33.4 21.6 40.2

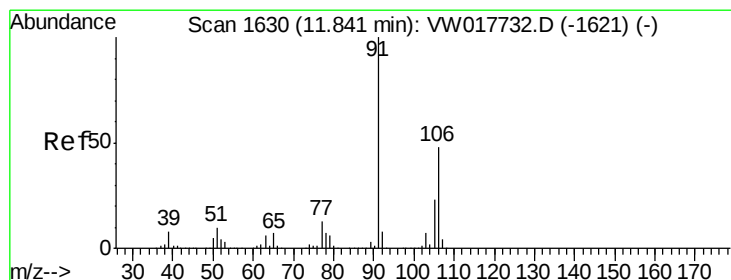
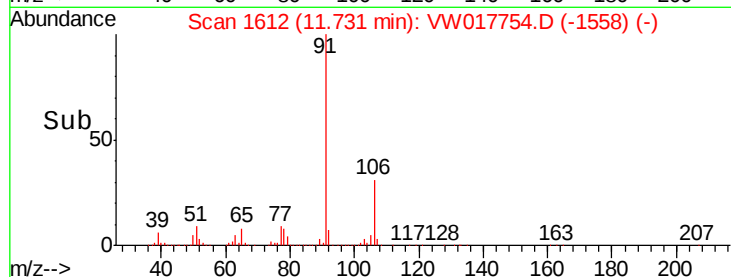
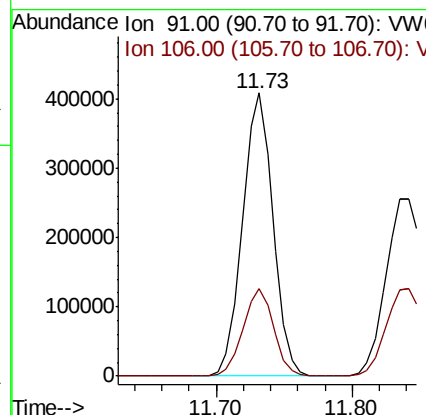
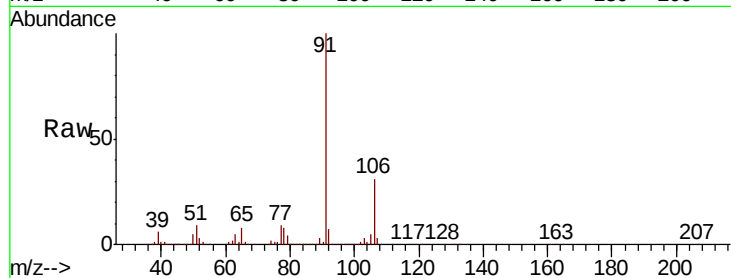




#53  
Ethylbenzene  
Concen: 24.768 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

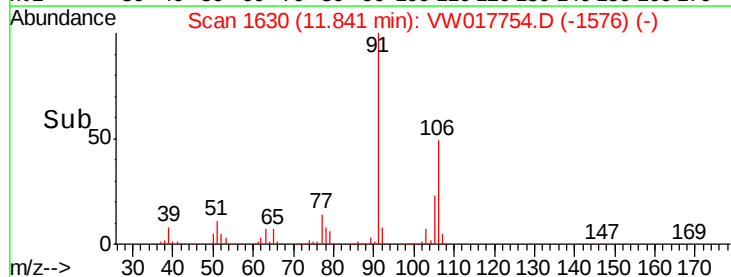
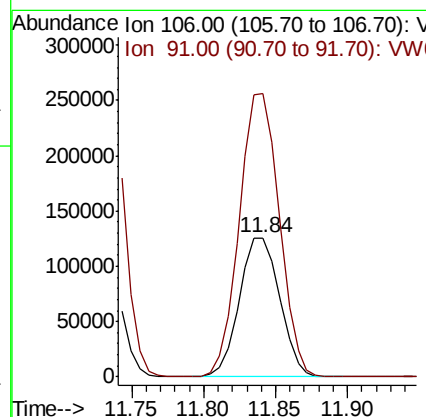
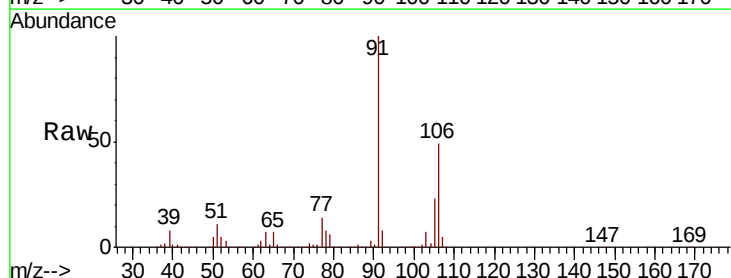
Instrument :  
MSVOA\_W  
ClientSampleId :

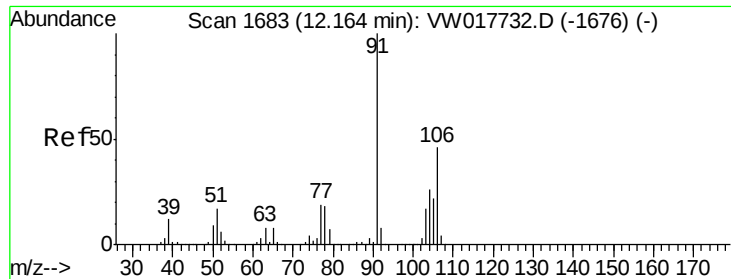
Tot Ion: 91 Resp: 636862  
Ion Ratio Lower Upper  
91 100  
106 30.9 22.0 41.0



#54  
m,p-Xylene  
Concen: 24.363 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion: 106 Resp: 245056  
Ion Ratio Lower Upper  
106 100  
91 203.9 141.6 263.0

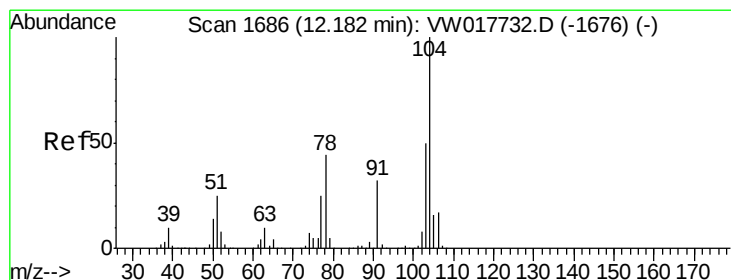
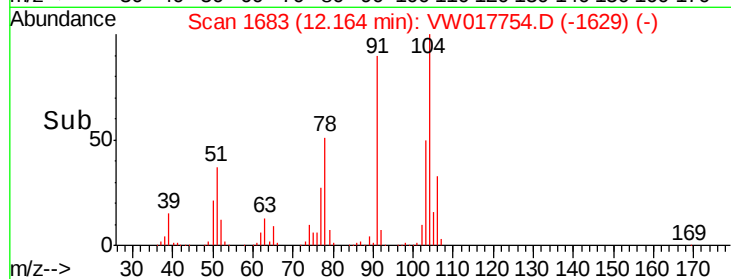
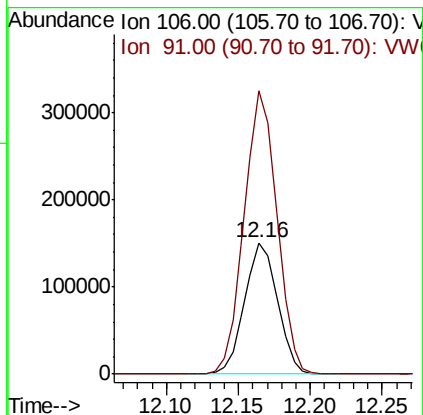
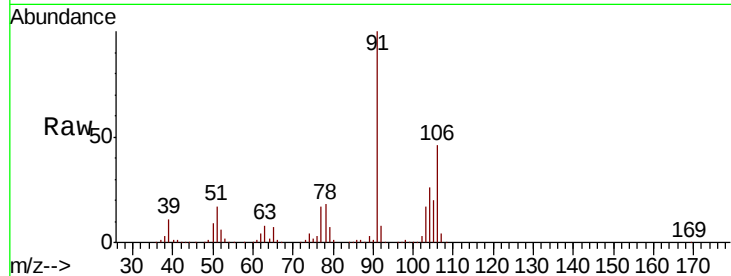




#55  
o-xylene  
Concen: 25.153 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

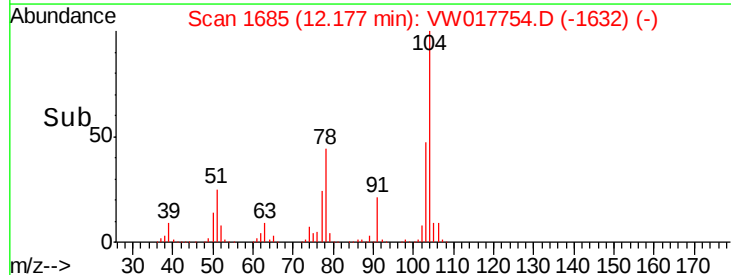
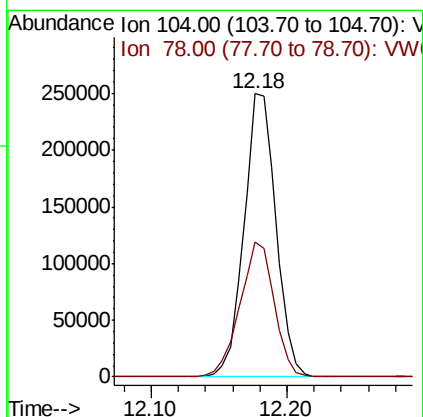
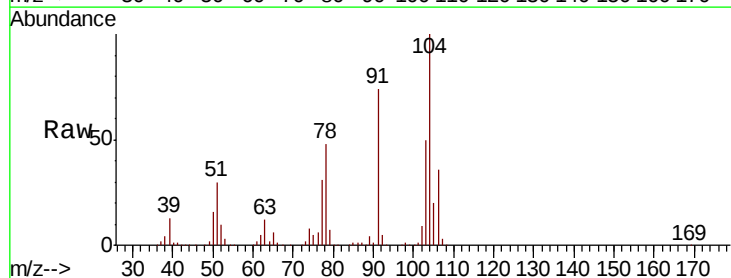
Instrument :  
MSVOA\_W  
ClientSampled :

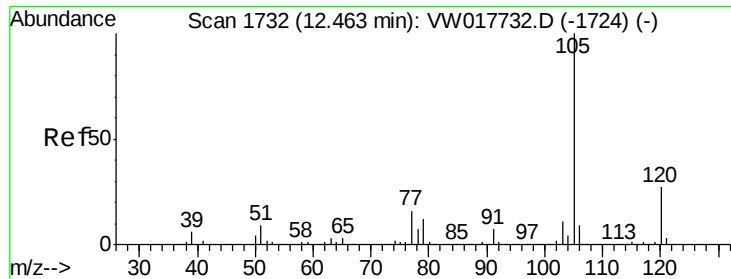
Tot Ion:106 Resp: 237933  
Ion Ratio Lower Upper  
106 100  
91 216.0 145.7 270.7



#56  
Styrene  
Concen: 26.048 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.01 min  
Lab File: VW017754.D  
Acq: 24 Dec 2020 22:41

Tgt Ion:104 Resp: 409858  
Ion Ratio Lower Upper  
104 100  
78 47.6 31.6 58.8





#57

Isopropylbenzene

Concen: 24.819 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampled :

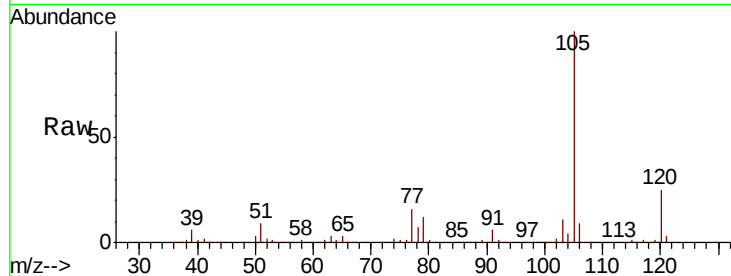
Tot Ion:105 Resp: 649997

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

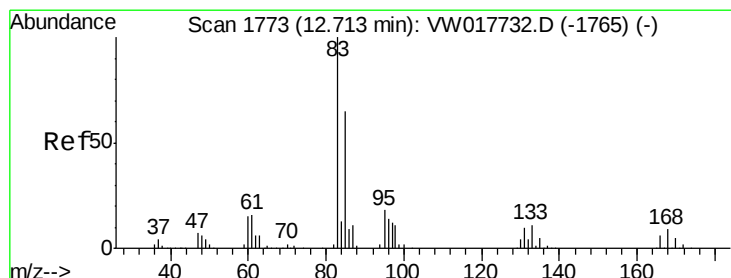
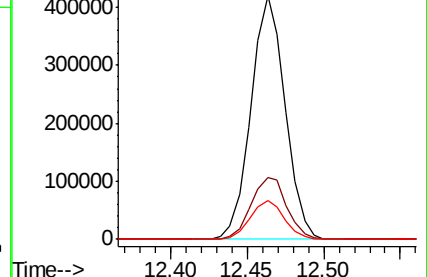
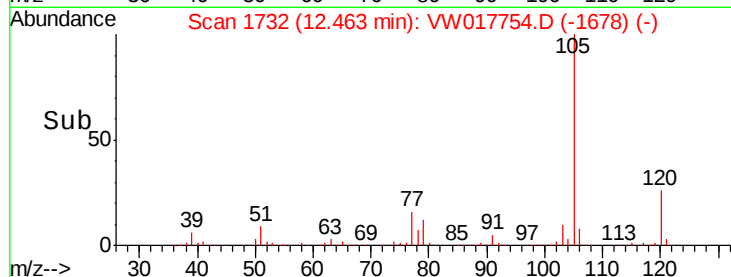
77 16.2 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 30.974 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

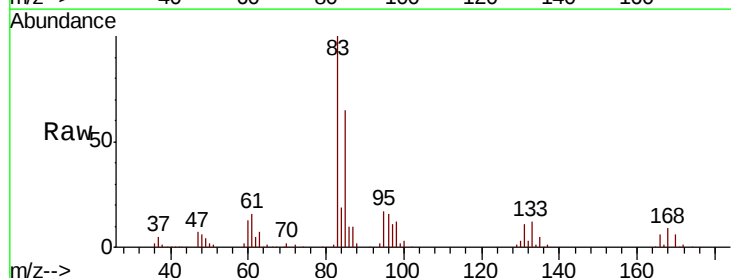
Tgt Ion: 83 Resp: 120562

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.8

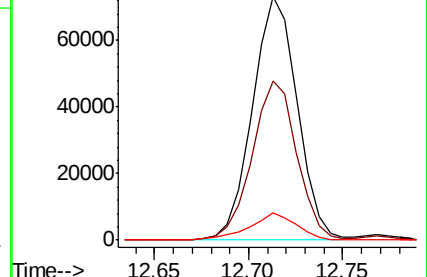
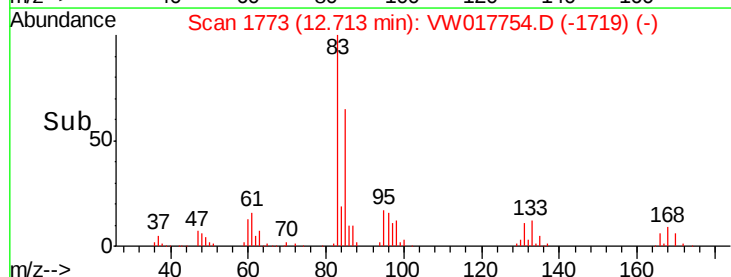
131 11.0 7.8 11.8

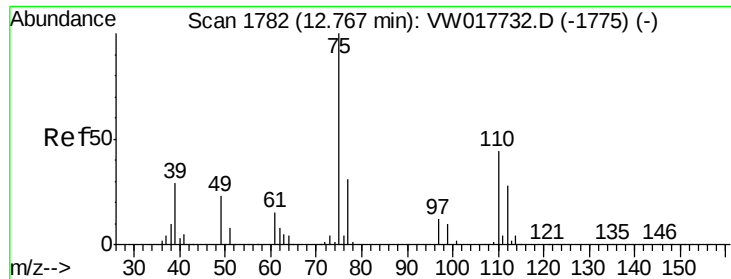


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 30.948 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

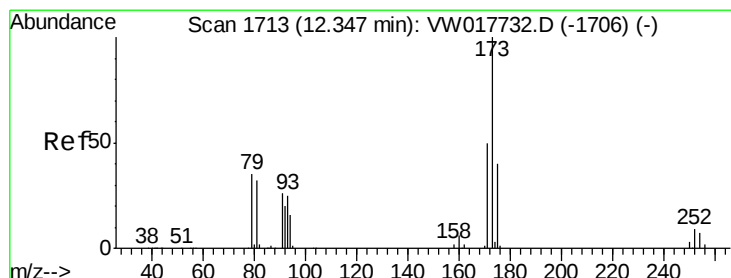
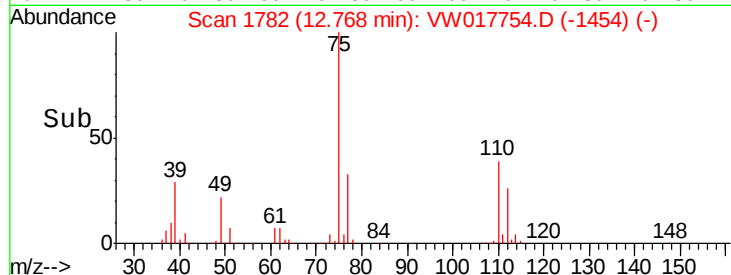
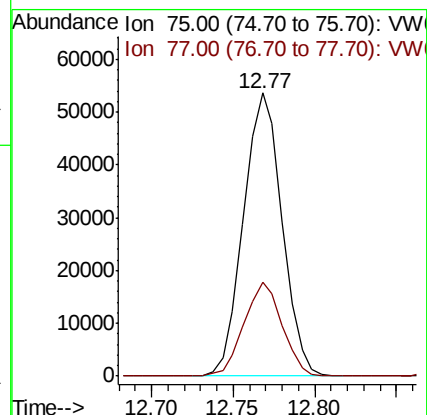
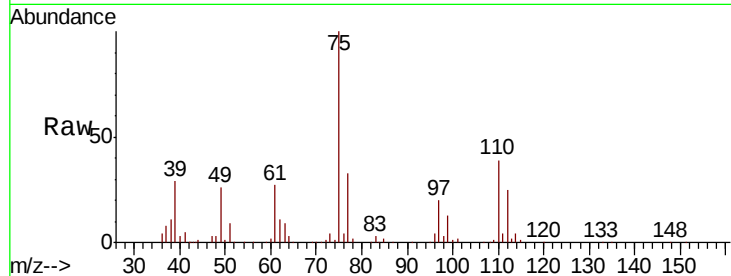
ClientSampled :

Tot Ion: 75 Resp: 88549

Ion Ratio Lower Upper

75 100

77 32.7 25.4 38.0



#62

Bromoform

Concen: 27.320 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

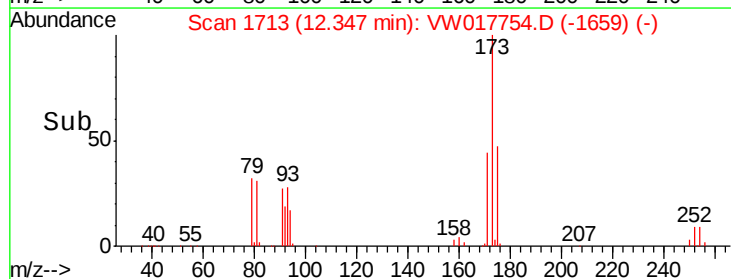
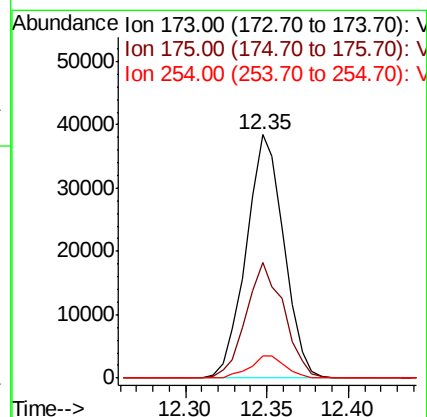
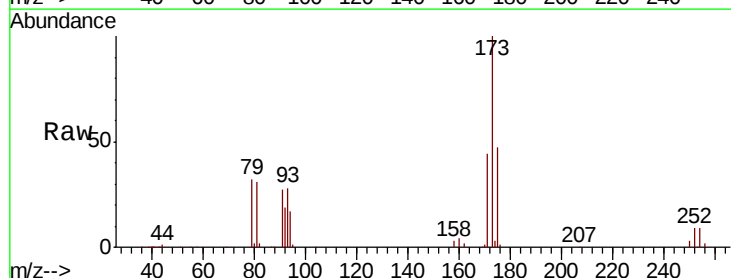
Tgt Ion: 173 Resp: 61926

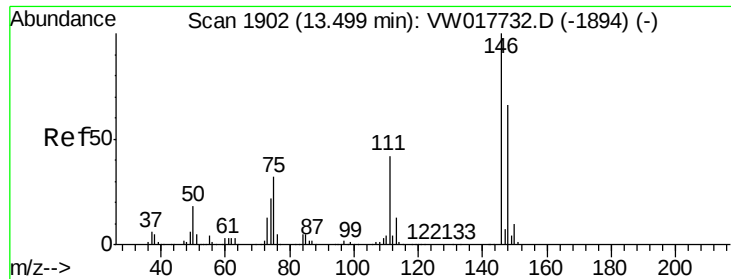
Ion Ratio Lower Upper

173 100

175 47.6 38.1 57.1

254 8.7 6.7 10.1





#63

1,3-Dichlorobenzene

Concen: 24.472 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

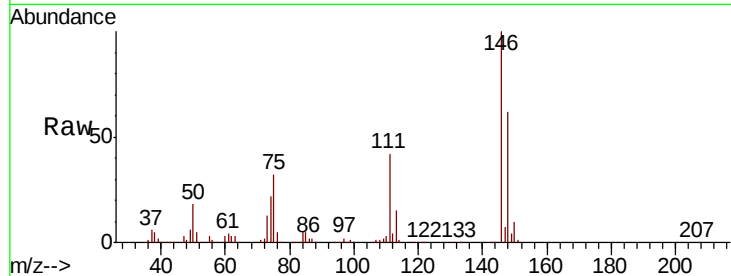
Tot Ion:146 Resp: 279814

Ion Ratio Lower Upper

146 100

111 42.3 29.5 54.7

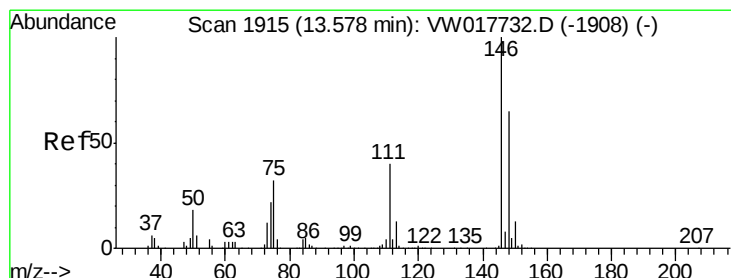
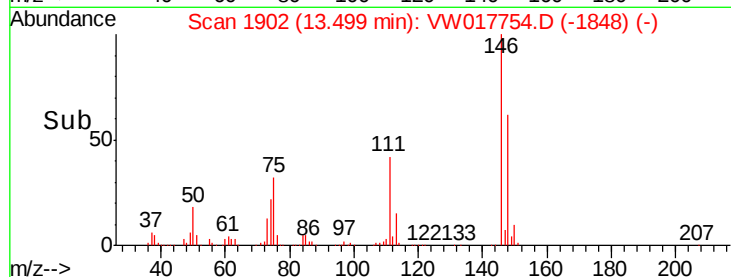
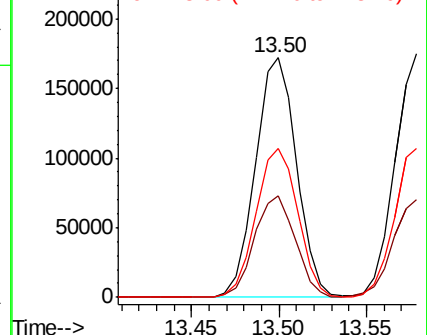
148 62.5 47.7 88.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 24.205 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

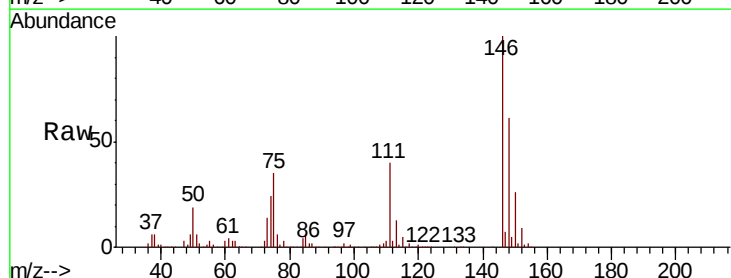
Tgt Ion:146 Resp: 278126

Ion Ratio Lower Upper

146 100

111 40.0 27.7 51.5

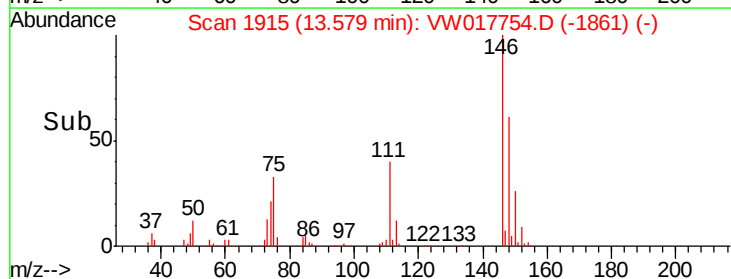
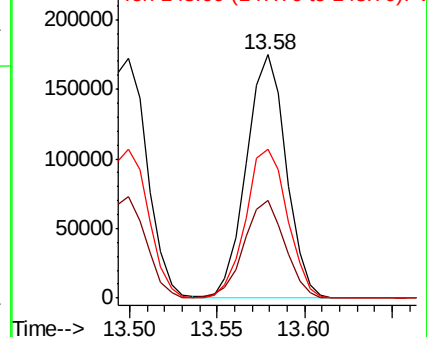
148 61.2 44.2 82.2

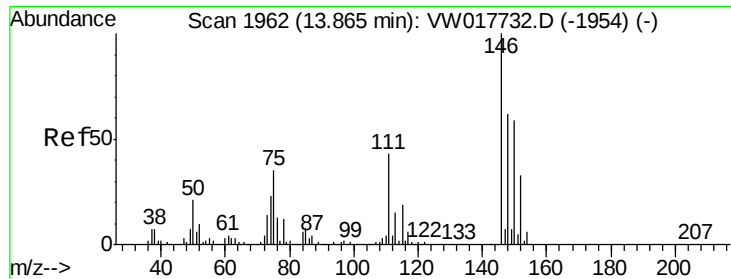


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 25.909 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampleId :

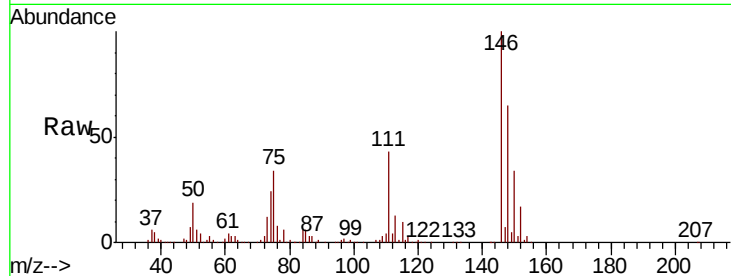
Tot Ion:146 Resp: 260308

Ion Ratio Lower Upper

146 100

111 42.5 34.4 51.6

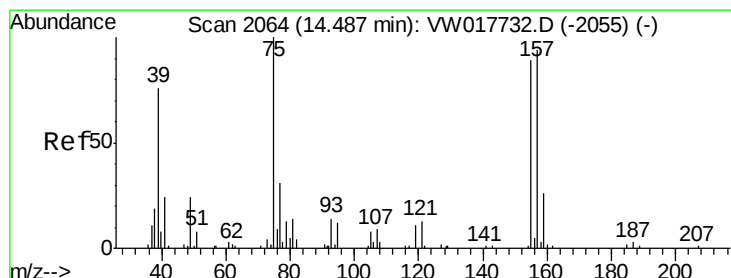
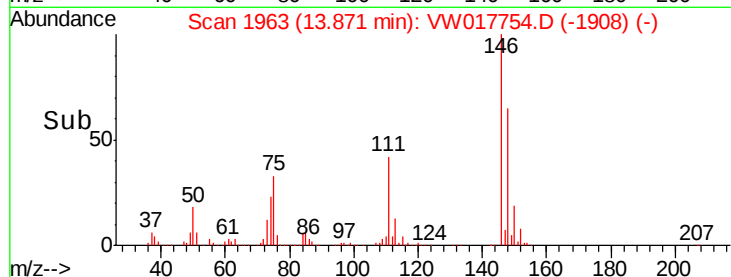
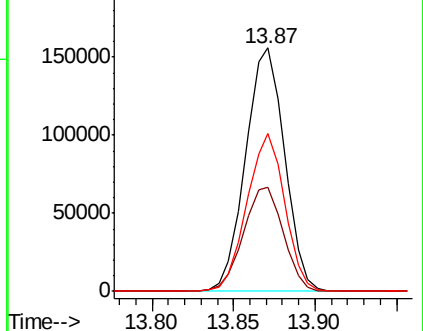
148 64.6 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 29.506 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

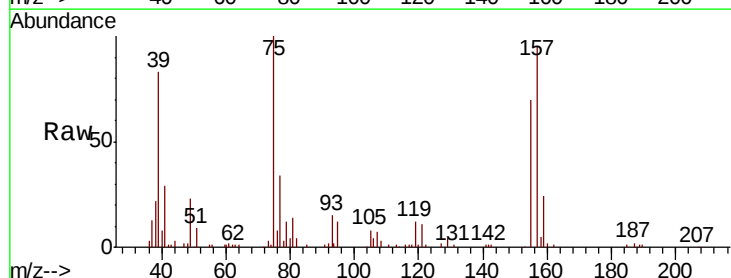
Tgt Ion: 75 Resp: 19525

Ion Ratio Lower Upper

75 100

157 94.5 70.2 105.4

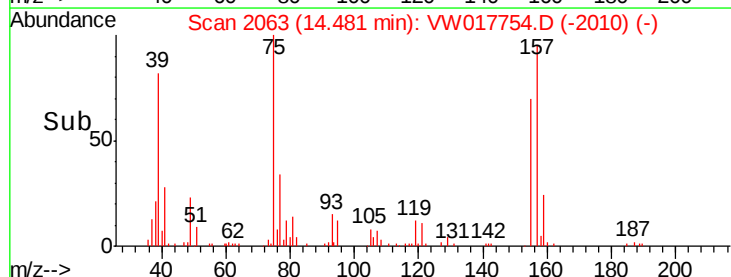
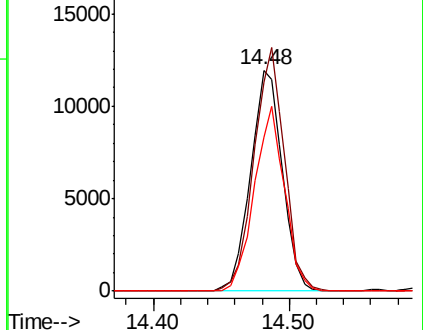
155 69.9 59.8 89.6

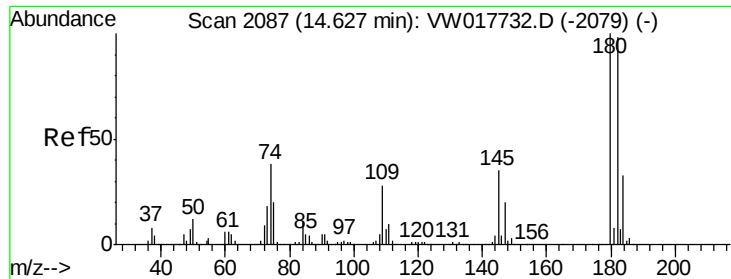


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

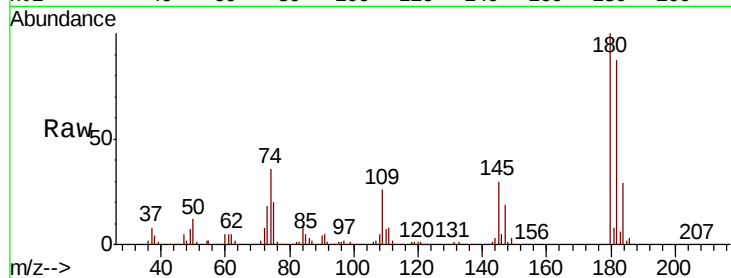




#67  
 1,3,5-Trichlorobenzene  
 Concen: 23.001 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.2  | 76.2  | 114.2 |
| 184     | 30.1  | 23.6  | 35.4  |
| 145     | 31.6  | 25.2  | 37.8  |



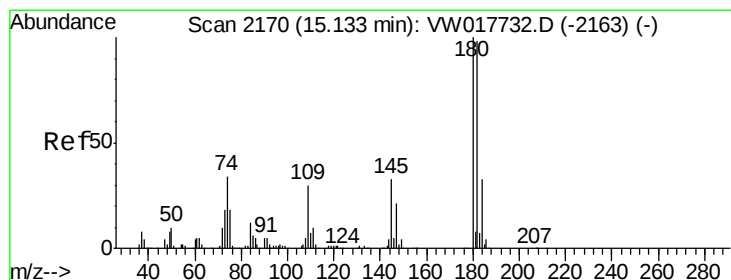
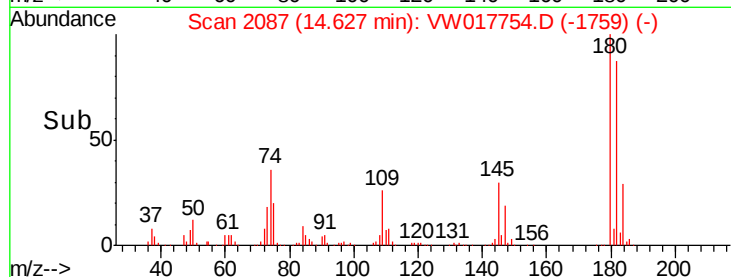
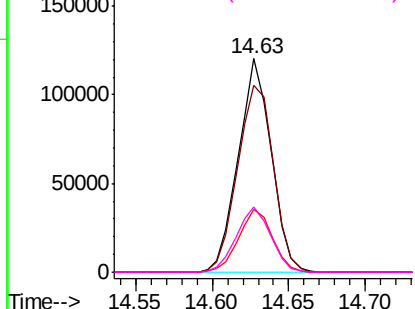
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

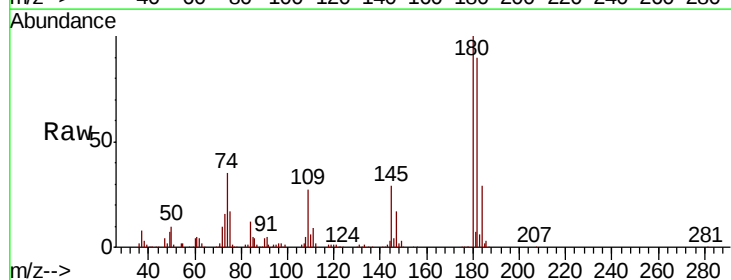
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 23.437 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW017754.D  
 Acq: 24 Dec 2020 22:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.4  | 73.0  | 109.6 |
| 145     | 33.6  | 25.8  | 38.6  |

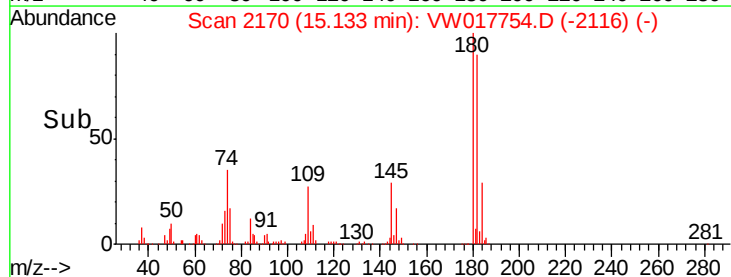
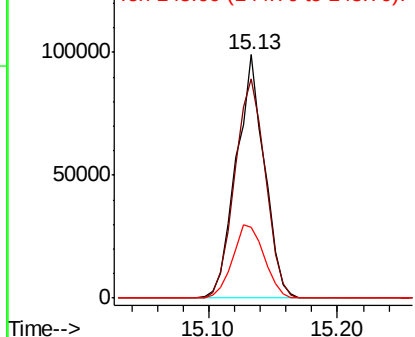


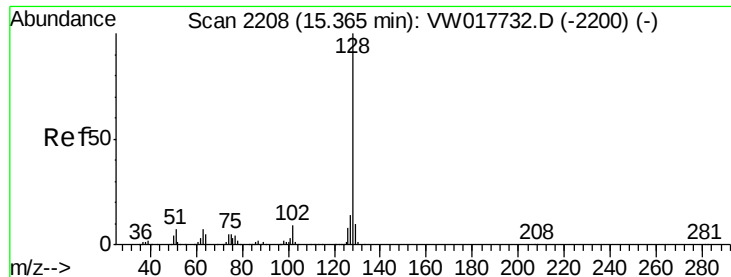
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.432 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

Instrument :

MSVOA\_W

ClientSampled :

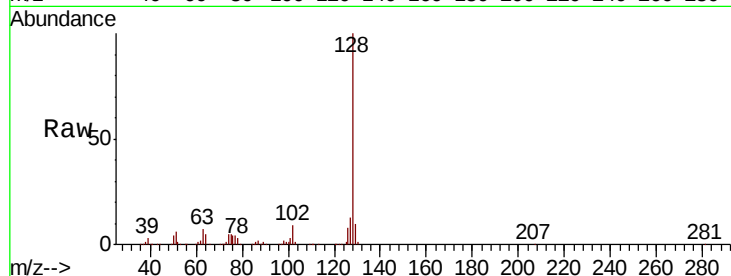
Tot Ion:128 Resp: 349344

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

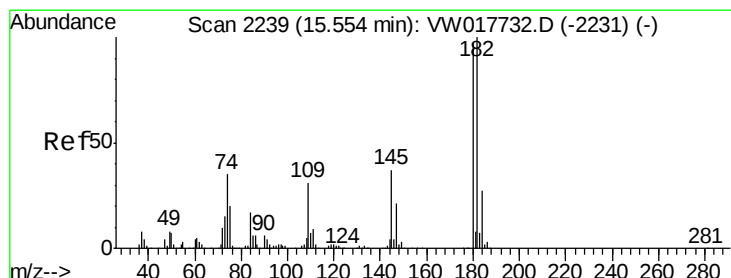
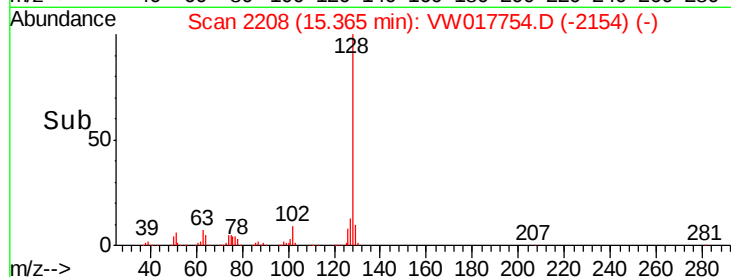
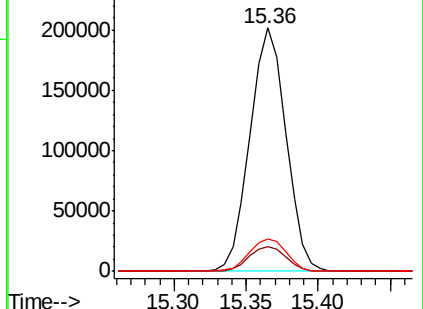
127 13.8 10.6 15.8



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: 25.375 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW017754.D

Acq: 24 Dec 2020 22:41

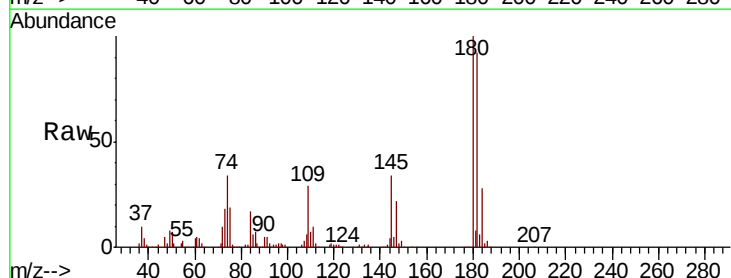
Tgt Ion:180 Resp: 138254

Ion Ratio Lower Upper

180 100

182 92.7 74.8 112.2

145 33.1 28.6 43.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

