

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY042320\  
 Data File : VY002455.D  
 Acq On : 23 Apr 2020 11:43  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 23 12:53:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 12:46:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 315876   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 471546   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 424344   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 224884   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 28705    | 10.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.74% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 27356    | 10.25 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.50% |          |
| 50) Toluene-d8              | 10.19 | 98   | 111752   | 10.39 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.78% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 37467    | 10.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.80% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.92 | 85   | 22130    | 9.473  | ug/l   | 98     |
| 3) Chloromethane              | 2.13 | 50   | 27891    | 9.345  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.27 | 62   | 18577    | 8.911  | ug/l   | 95     |
| 5) Bromomethane               | 2.67 | 94   | 11417    | 10.142 | ug/l   | 94     |
| 6) Chloroethane               | 2.81 | 64   | 10622    | 9.702  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.15 | 101  | 41596    | 11.000 | ug/l   | 98     |
| 8) Diethyl Ether              | 3.55 | 74   | 16318    | 10.550 | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.94 | 101  | 26822    | 10.267 | ug/l   | 98     |
| 10) Methyl Iodide             | 4.12 | 142  | 39752    | 9.820  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.99 | 59   | 12770    | 49.638 | ug/l   | 95     |
| 12) 1,1-Dichloroethene        | 3.90 | 96   | 27633    | 10.338 | ug/l   | 99     |
| 13) Acrolein                  | 3.76 | 56   | 10832    | 54.695 | ug/l   | 97     |
| 14) Allyl chloride            | 4.52 | 41   | 39306    | 9.883  | ug/l   | 96     |
| 15) Acrylonitrile             | 5.21 | 53   | 36817    | 49.299 | ug/l   | 99     |
| 16) Acetone                   | 3.98 | 43   | 29654    | 53.380 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.22 | 76   | 82082    | 9.748  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.52 | 43   | 18069    | 9.775  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.27 | 73   | 71497    | 9.889  | ug/l   | 92     |
| 20) Methylene Chloride        | 4.75 | 84   | 35934    | 10.587 | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.26 | 96   | 30880    | 10.092 | ug/l # | 86     |
| 22) Diisopropyl ether         | 6.16 | 45   | 81134    | 10.267 | ug/l   | 94     |
| 23) Vinyl Acetate             | 6.10 | 43   | 252042   | 50.851 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 6.06 | 63   | 48145    | 10.049 | ug/l   | 98     |
| 25) 2-Butanone                | 7.02 | 43   | 44844    | 51.658 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.02 | 77   | 46235    | 10.144 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.02 | 96   | 33439    | 10.053 | ug/l   | 99     |
| 28) Bromochloromethane        | 7.36 | 49   | 19057    | 10.119 | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.38 | 42   | 29112    | 50.357 | ug/l   | 99     |
| 30) Chloroform                | 7.53 | 83   | 50661    | 9.952  | ug/l   | 96     |
| 31) Cyclohexane               | 7.82 | 56   | 48469    | 9.988  | ug/l # | 91     |
| 32) 1,1,1-Trichloroethane     | 7.73 | 97   | 45837    | 9.591  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.94 | 75   | 40237    | 9.942  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.10 | 43   | 18696    | 9.367  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.93 | 117  | 44592    | 9.639  | ug/l   | 96     |

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 ClientSampleId :

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 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 12:46:18 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.21  | 83   | 49640    | 9.440   | ug/l   | 98       |
| 40) Benzene                    | 8.19  | 78   | 115107   | 9.856   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.38  | 41   | 27556    | 11.468  | ug/l # | 25       |
| 42) 1,2-Dichloroethane         | 8.27  | 62   | 32719    | 9.679   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.30  | 43   | 37837    | 10.160  | ug/l   | 98       |
| 44) Trichloroethene            | 8.96  | 130  | 35940    | 9.818   | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 26582    | 9.864   | ug/l   | 96       |
| 46) Dibromomethane             | 9.33  | 93   | 15510    | 9.918   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.52  | 83   | 39677    | 10.122  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.31  | 41   | 17083    | 10.068  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.32  | 88   | 3624     | 184.200 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 96156    | 49.822  | ug/l   | 99       |
| 52) Toluene                    | 10.26 | 92   | 73939    | 9.874   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.48 | 75   | 40012    | 9.814   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.95  | 75   | 46579    | 9.903   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 23529    | 10.159  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 30819    | 9.842   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 39485    | 10.105  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 75600    | 49.427  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.85 | 43   | 66589    | 49.868  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.00 | 129  | 29432    | 9.752   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 22718    | 9.914   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.74 | 164  | 38344    | 9.826   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.53 | 112  | 81361    | 9.951   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 30618    | 10.038  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 144688   | 9.975   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.71 | 106  | 110590   | 19.791  | ug/l   | 99       |
| 69) o-Xylene                   | 12.04 | 106  | 51991    | 9.934   | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 88946    | 9.795   | ug/l   | 99       |
| 71) Bromoform                  | 12.22 | 173  | 18862    | 9.877   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.34 | 105  | 144617   | 9.921   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 34210    | 10.065  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 22663    | 10.203  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 35443    | 11.415  | ug/l # | 100      |
| 77) Bromobenzene               | 12.62 | 156  | 36448    | 9.964   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.68 | 91   | 167690   | 9.882   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 91574    | 9.890   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 122295   | 9.851   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 9975     | 10.093  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 96917    | 9.920   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 107163   | 9.806   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 122223   | 9.878   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.26 | 105  | 146833   | 9.840   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 136987   | 9.699   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 69556    | 9.959   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 68569    | 9.914   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.70 | 91   | 126580   | 9.797   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.97 | 117  | 24565    | 9.733   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 62709    | 10.031  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 4143     | 9.407   | ug/l   | 97       |

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Sample : VSTDICC010  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

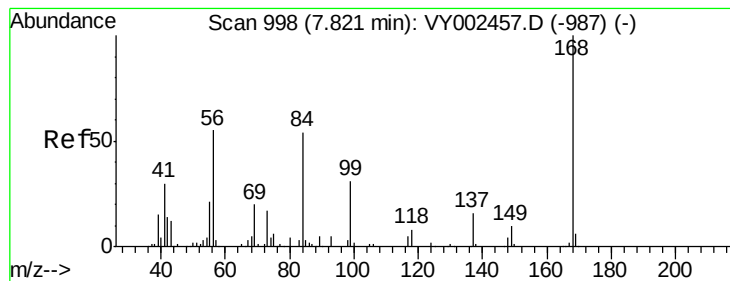
Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Apr 23 12:53:11 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042320S.M  
Quant Title : SW846 8260  
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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 45753    | 9.885  | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.13 | 225  | 28118    | 9.993  | ug/l  | 98       |
| 95) Naphthalene            | 15.25 | 128  | 83753    | 9.956  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.44 | 180  | 38995    | 10.000 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

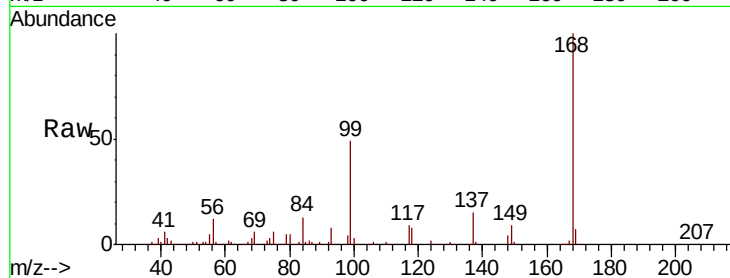
ClientSampleId :

Tot Ion:168 Resp: 315876

Ion Ratio Lower Upper

168 100

99 48.9 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY002457.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY002457.D (-987) (-)

7.82

150000

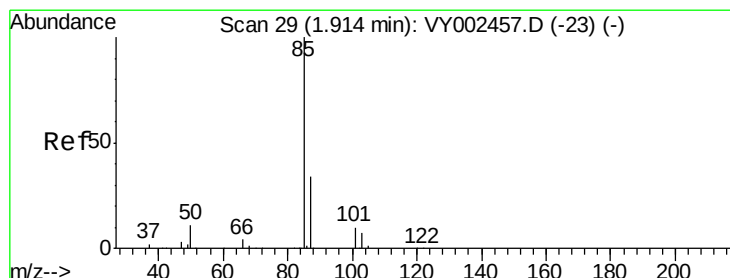
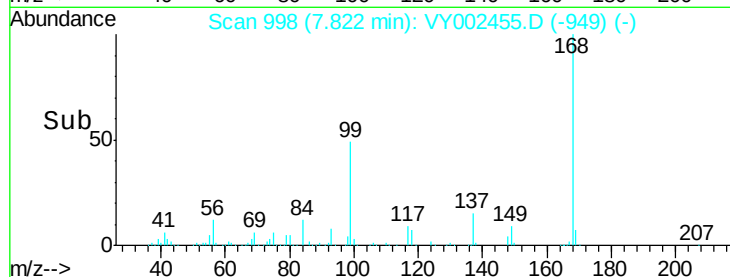
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 9.473 ug/l

RT: 1.92 min Scan# 30

Delta R.T. 0.01 min

Lab File: VY002455.D

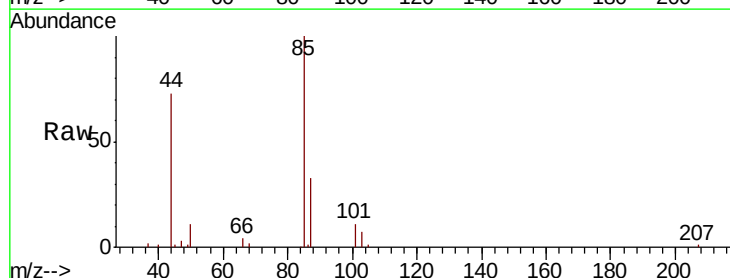
Acq: 23 Apr 2020 11:43

Tgt Ion: 85 Resp: 22130

Ion Ratio Lower Upper

85 100

87 33.1 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VY002457.D (-23) (-)

Ion 86.90 (86.60 to 87.60): VY002457.D (-23) (-)

1.92

15000

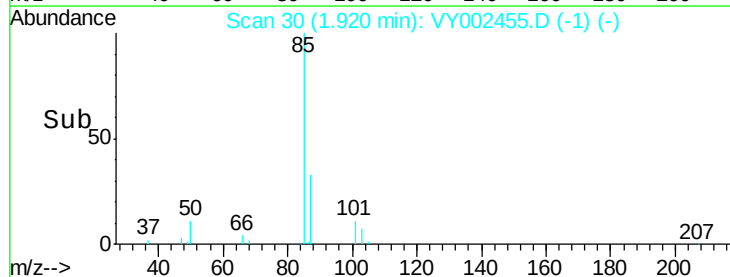
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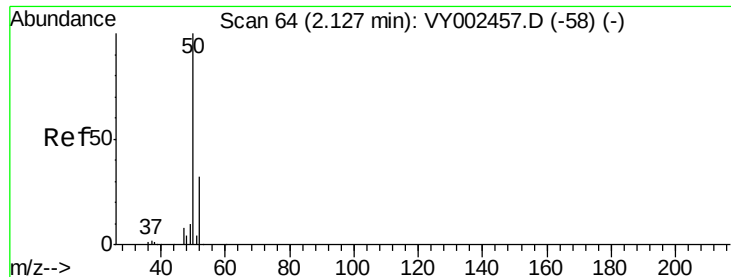
5000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 9.345 ug/l

RT: 2.13 min Scan# 65

Delta R.T. 0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

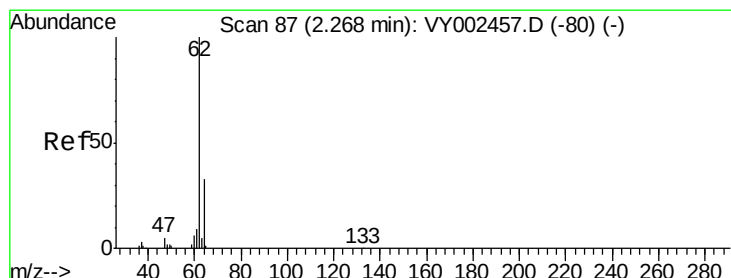
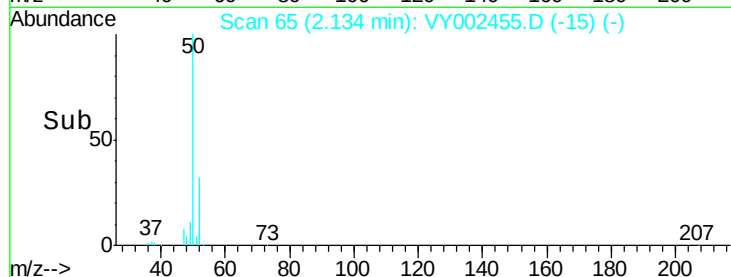
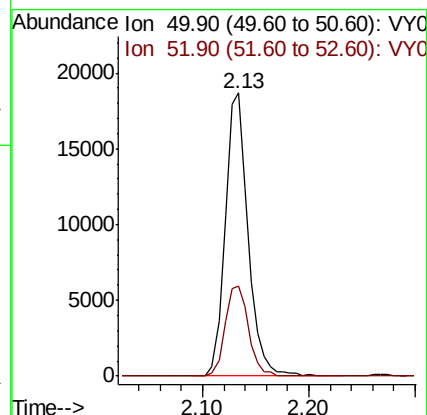
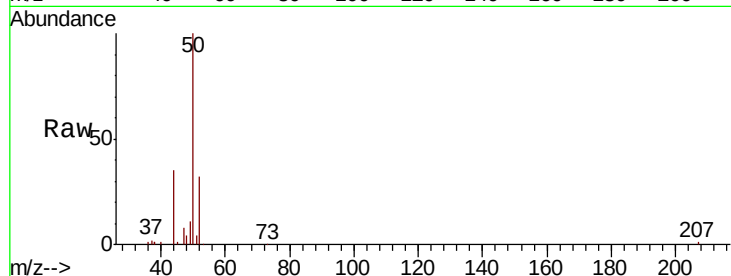
ClientSampleId :

Tot Ion: 50 Resp: 27891

Ion Ratio Lower Upper

50 100

52 31.9 25.2 37.8



#4

Vinyl Chloride

Concen: 8.911 ug/l

RT: 2.27 min Scan# 87

Delta R.T. 0.00 min

Lab File: VY002455.D

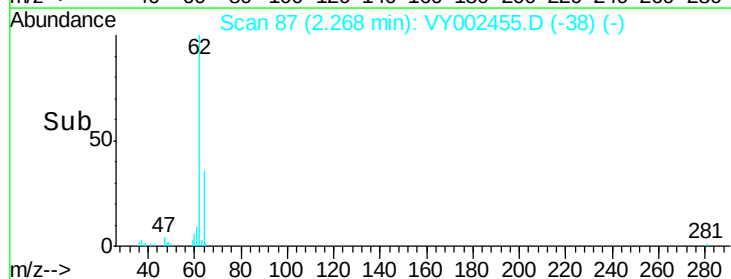
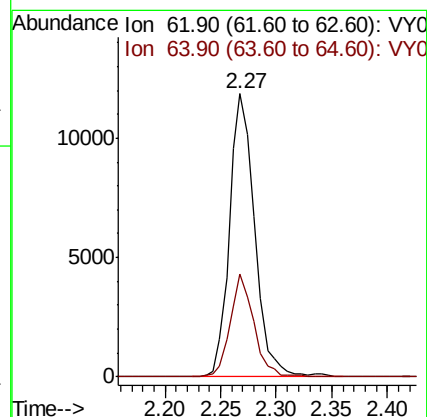
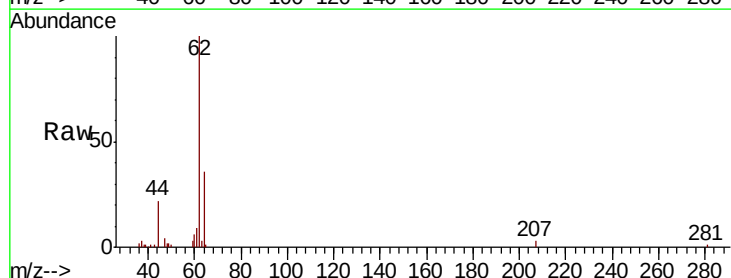
Acq: 23 Apr 2020 11:43

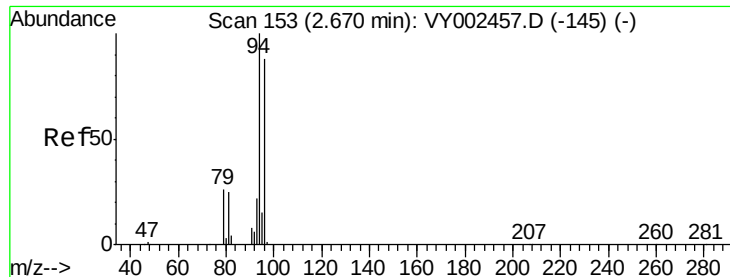
Tgt Ion: 62 Resp: 18577

Ion Ratio Lower Upper

62 100

64 36.1 26.6 39.8





#5

Bromomethane

Concen: 10.142 ug/l

RT: 2.67 min Scan# 153

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

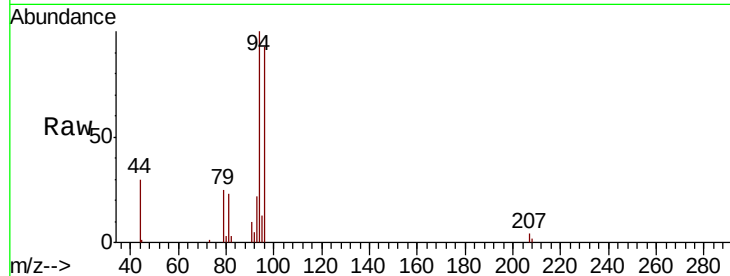
ClientSampleId :

Tot Ion: 94 Resp: 11417

Ion Ratio Lower Upper

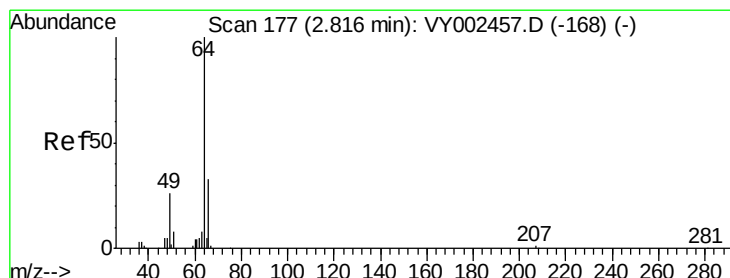
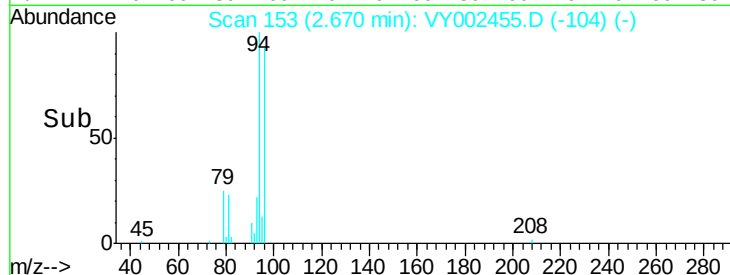
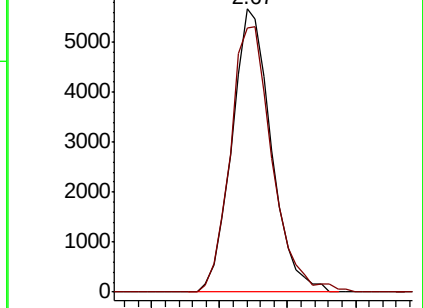
94 100

96 93.1 70.2 105.4



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 9.702 ug/l

RT: 2.81 min Scan# 176

Delta R.T. -0.01 min

Lab File: VY002455.D

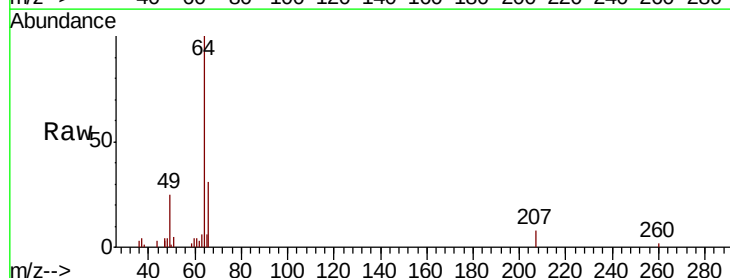
Acq: 23 Apr 2020 11:43

Tgt Ion: 64 Resp: 10622

Ion Ratio Lower Upper

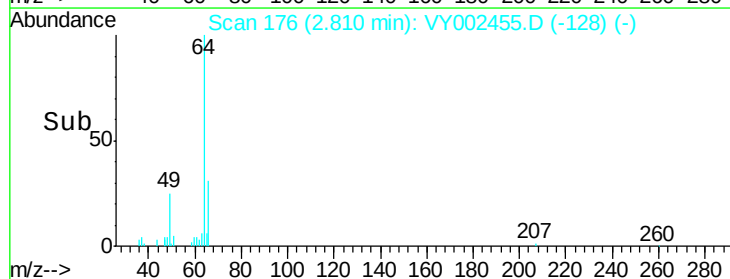
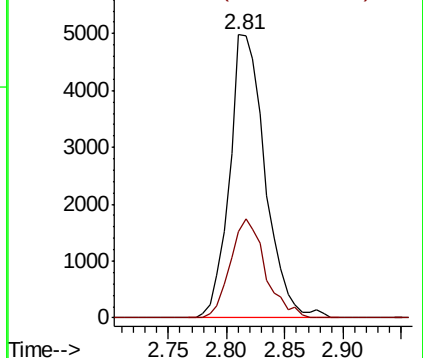
64 100

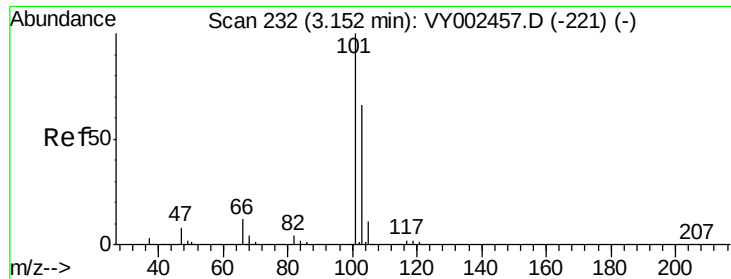
66 30.6 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0



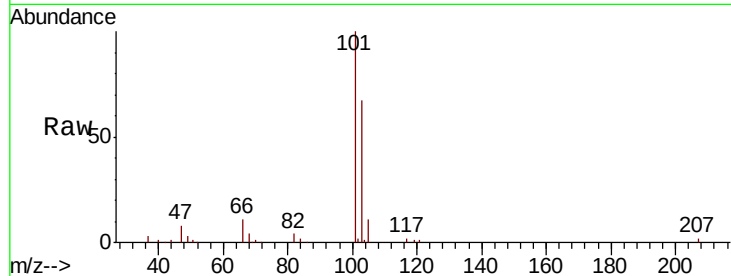


#7

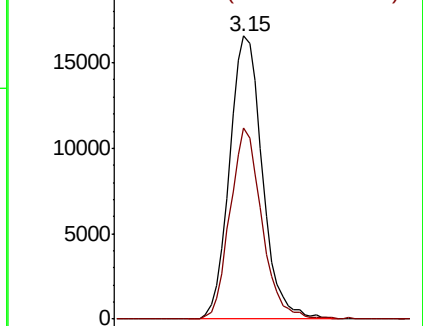
Trichlorofluoromethane  
Concen: 11.000 ug/l  
RT: 3.15 min Scan# 232  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Instrument :  
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ClientSampleId :

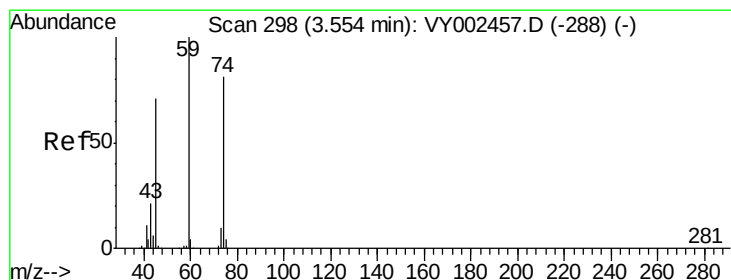
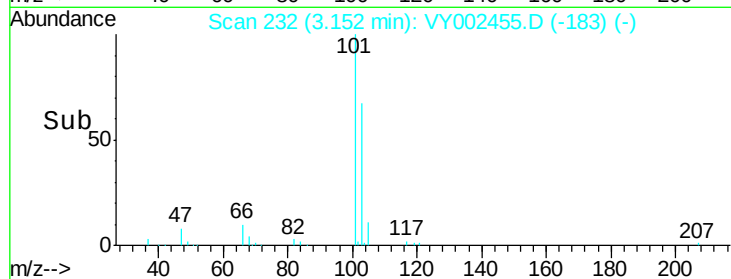
Tot Ion:101 Resp: 41596  
Ion Ratio Lower Upper  
101 100  
103 67.5 52.5 78.7



Abundance Ion 100.90 (100.60 to 101.60): VY002455.D (-183) (-)  
Ion 102.80 (102.50 to 103.50): VY002455.D (-183) (-)



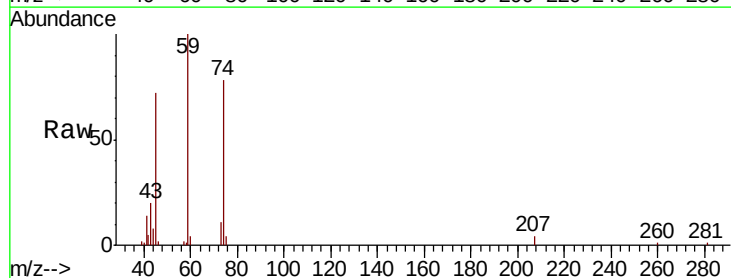
Time-->



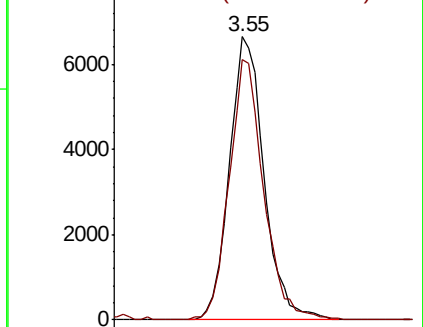
#8

Diethyl Ether  
Concen: 10.550 ug/l  
RT: 3.55 min Scan# 298  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

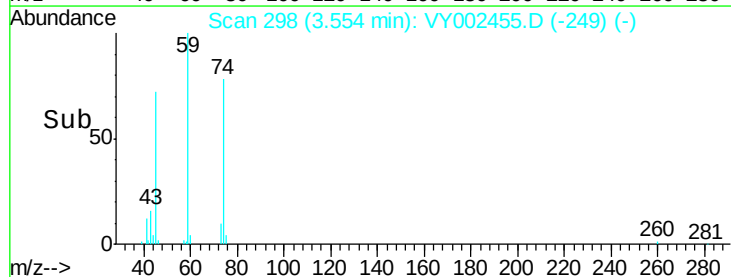
Tgt Ion: 74 Resp: 16318  
Ion Ratio Lower Upper  
74 100  
45 91.5 44.0 132.0



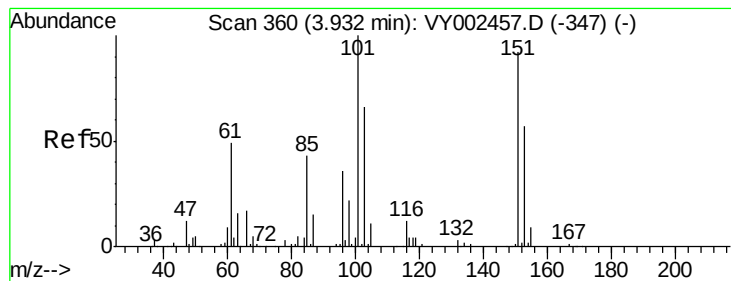
Abundance Ion 74.00 (73.70 to 74.70): VY002455.D (-249) (-)  
Ion 45.00 (44.70 to 45.70): VY002455.D (-249) (-)



Time-->







#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.267 ug/l

RT: 3.94 min Scan# 361

Delta R.T. 0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampled :

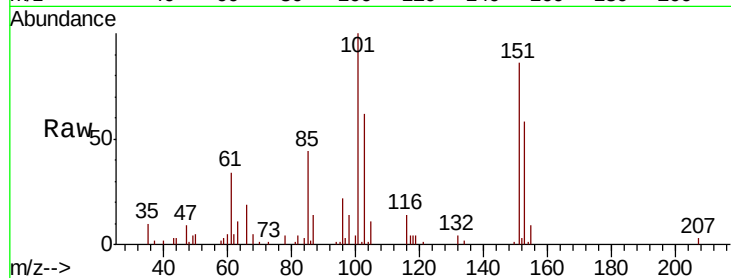
Tot Ion:101 Resp: 26822

Ion Ratio Lower Upper

101 100

85 44.1 34.1 51.1

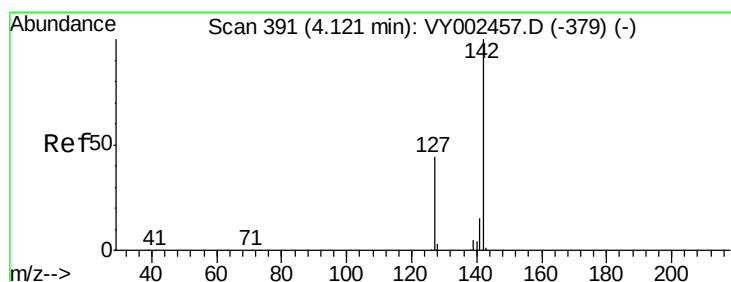
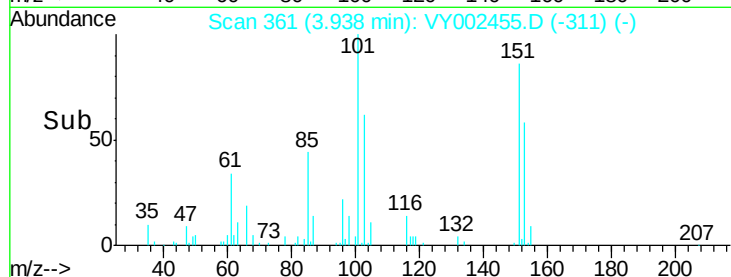
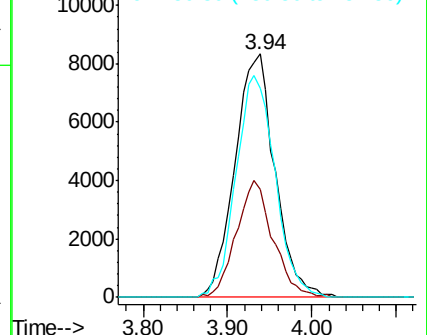
151 89.2 70.3 105.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 9.820 ug/l

RT: 4.12 min Scan# 391

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

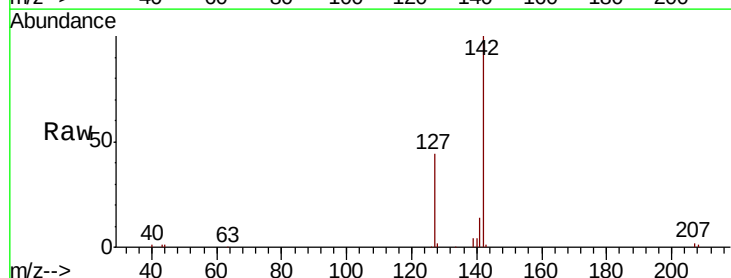
Tgt Ion:142 Resp: 39752

Ion Ratio Lower Upper

142 100

127 43.4 35.8 53.8

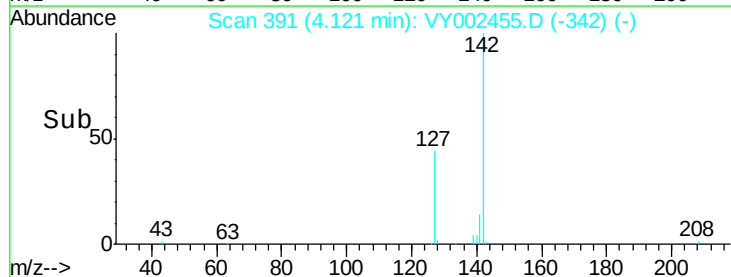
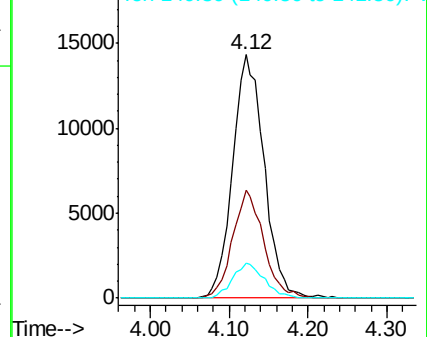
141 14.5 11.6 17.4

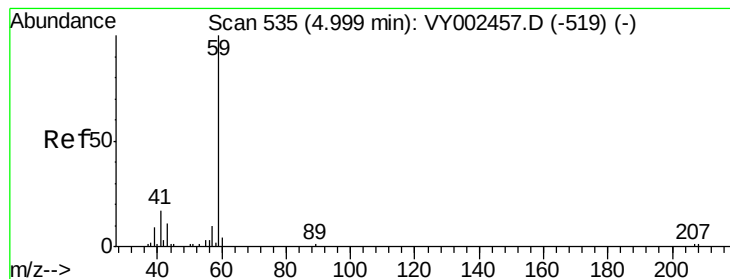


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 49.638 ug/l

RT: 4.99 min Scan# 534

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

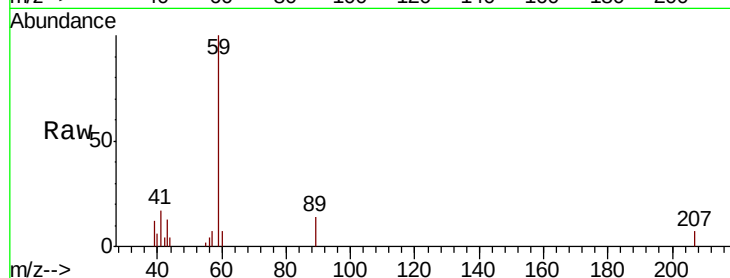
ClientSampleId :

Tot Ion: 59 Resp: 12770

Ion Ratio Lower Upper

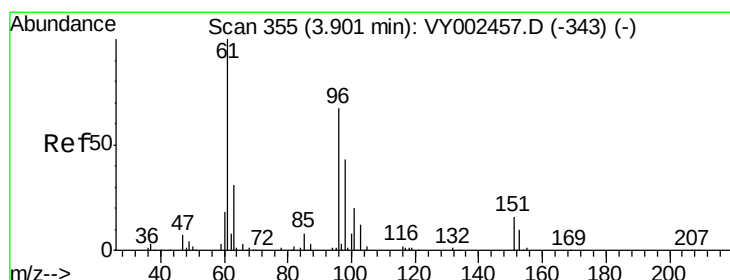
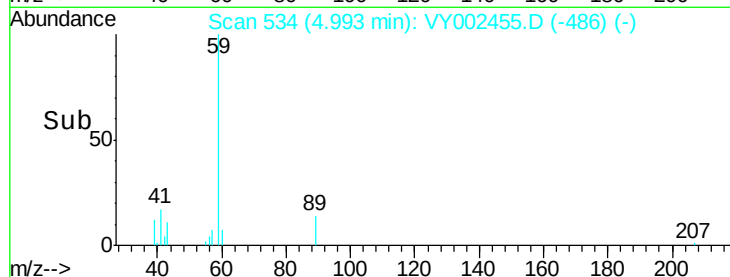
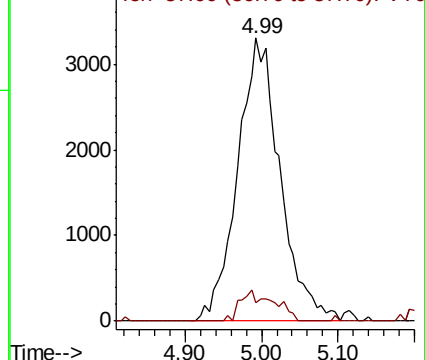
59 100

57 8.6 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#12

1,1-Dichloroethene

Concen: 10.338 ug/l

RT: 3.90 min Scan# 355

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

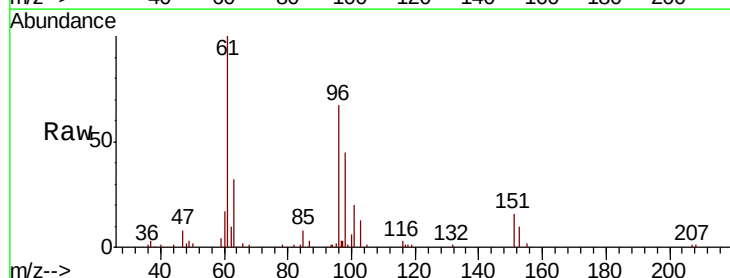
Tgt Ion: 96 Resp: 27633

Ion Ratio Lower Upper

96 100

61 148.2 119.0 178.6

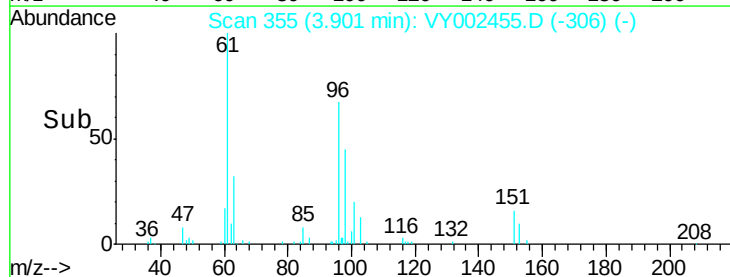
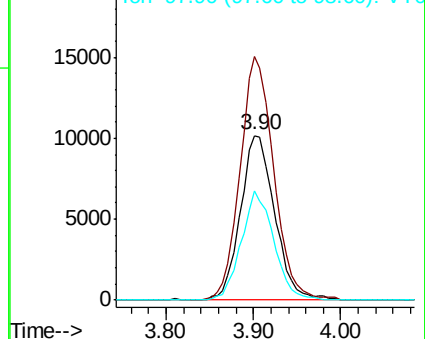
98 66.6 51.4 77.2

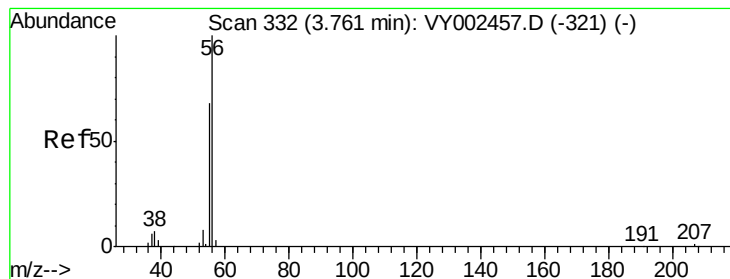


Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0





#13

Acrolein

Concen: 54.695 ug/l

RT: 3.76 min Scan# 331

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

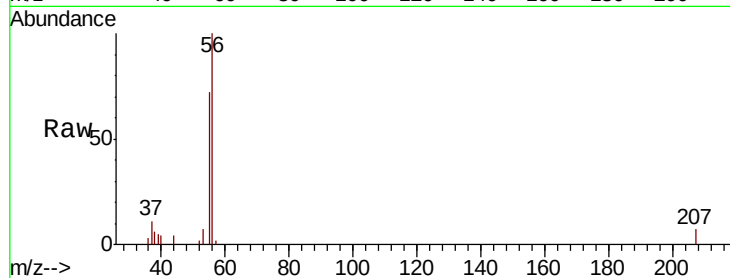
ClientSampleId :

Tot Ion: 56 Resp: 10832

Ion Ratio Lower Upper

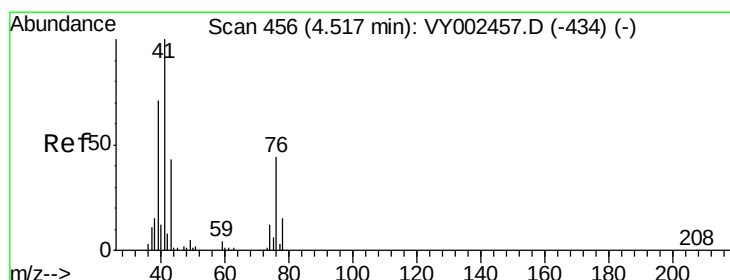
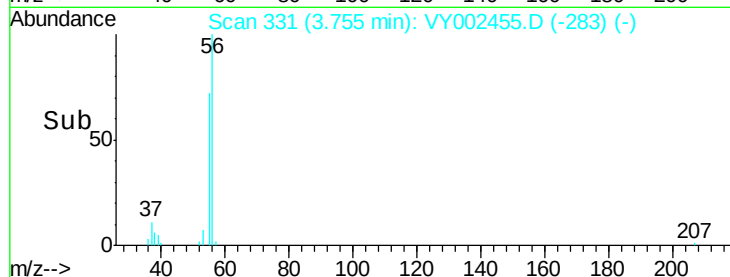
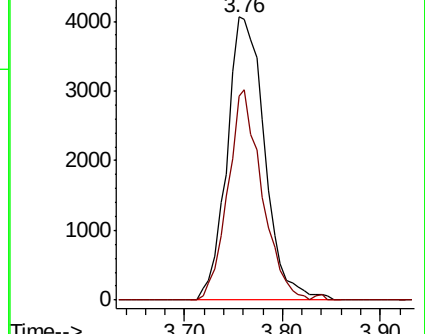
56 100

55 67.3 55.8 83.6



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 9.883 ug/l

RT: 4.52 min Scan# 456

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

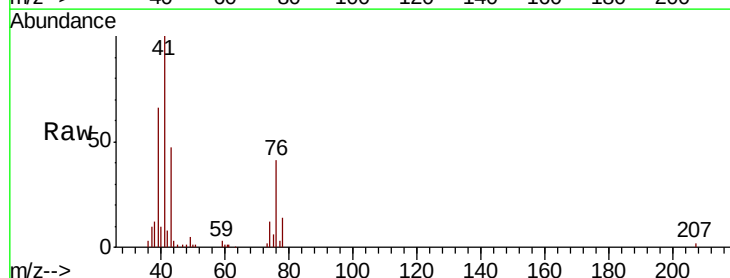
Tgt Ion: 41 Resp: 39306

Ion Ratio Lower Upper

41 100

39 65.8 55.1 82.7

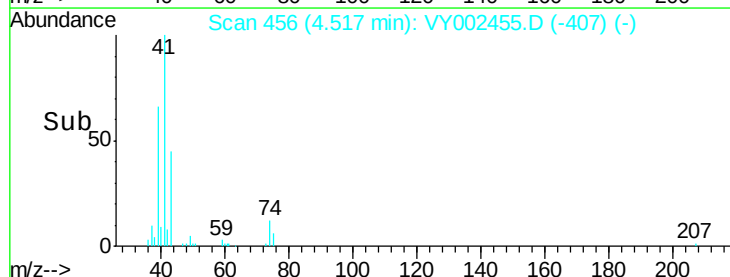
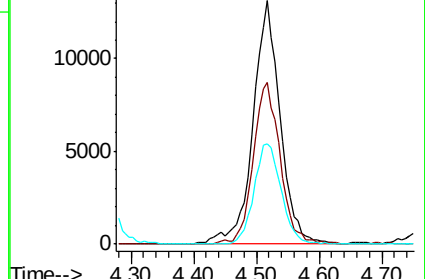
76 41.0 34.3 51.5

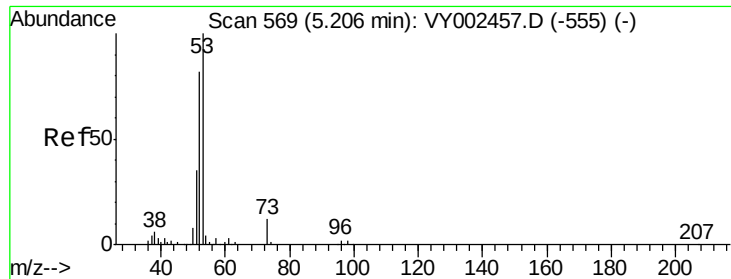


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 49.299 ug/l

RT: 5.21 min Scan# 569

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

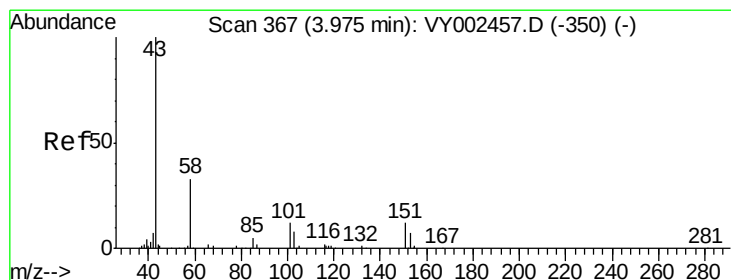
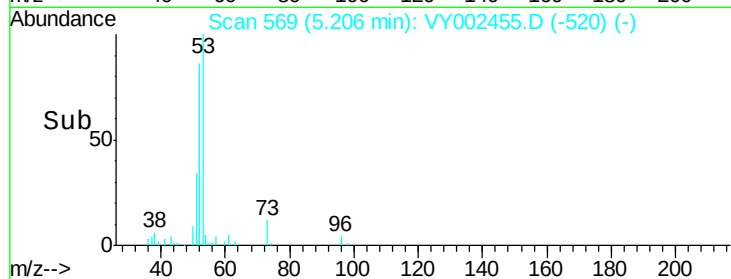
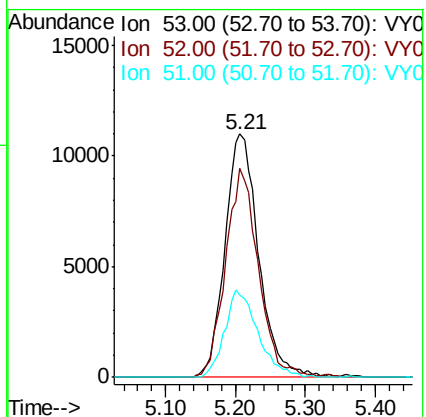
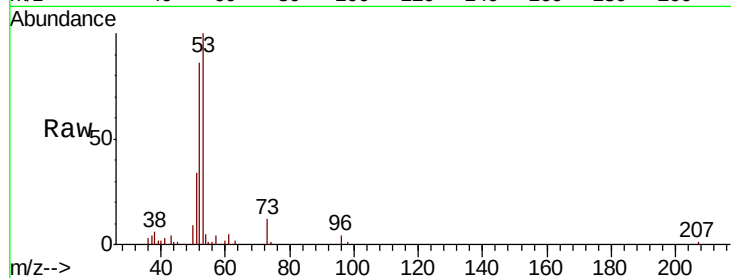
Tot Ion: 53 Resp: 36817

Ion Ratio Lower Upper

53 100

52 83.3 65.4 98.2

51 35.3 28.3 42.5



#16

Acetone

Concen: 53.380 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY002455.D

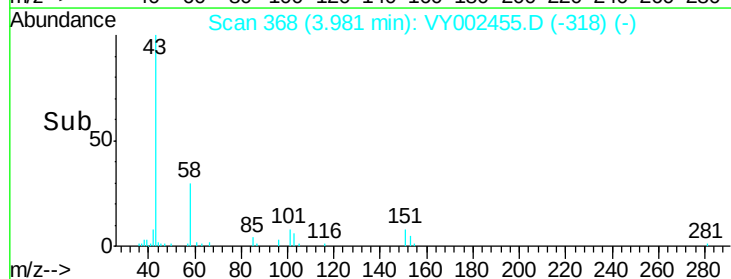
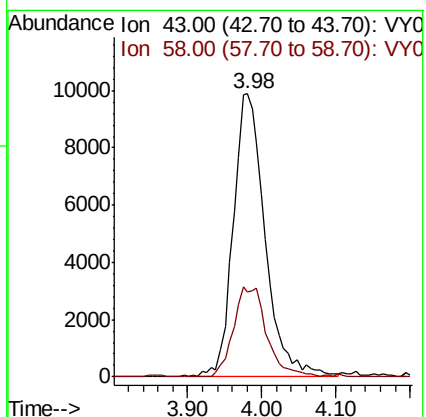
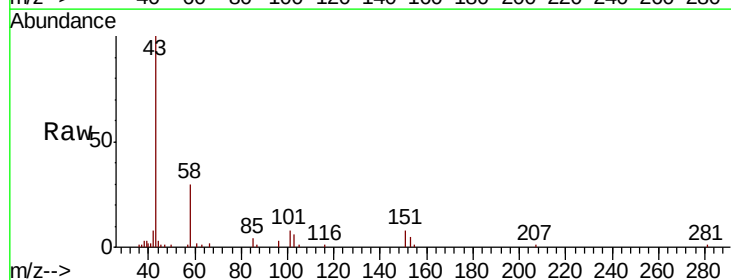
Acq: 23 Apr 2020 11:43

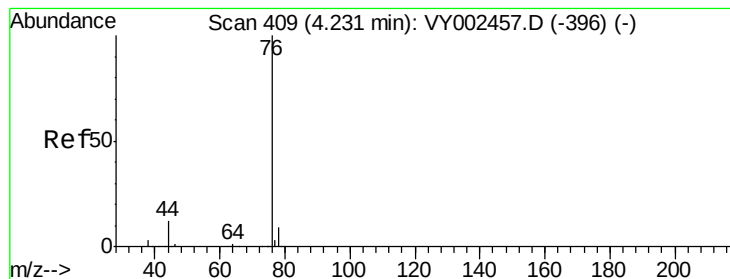
Tgt Ion: 43 Resp: 29654

Ion Ratio Lower Upper

43 100

58 30.0 26.4 39.6





#17

Carbon Disulfide

Concen: 9.748 ug/l

RT: 4.22 min Scan# 408

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

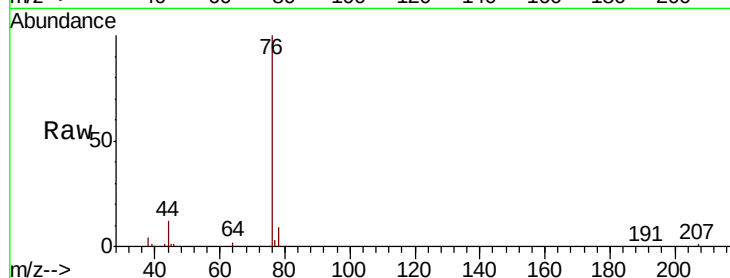
ClientSampleId :

Tot Ion: 76 Resp: 82082

Ion Ratio Lower Upper

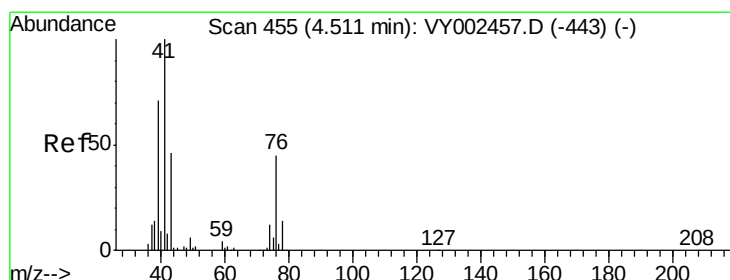
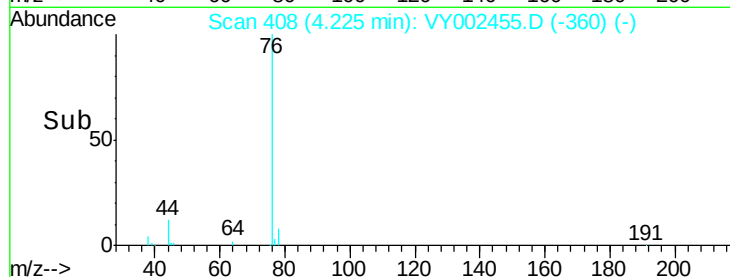
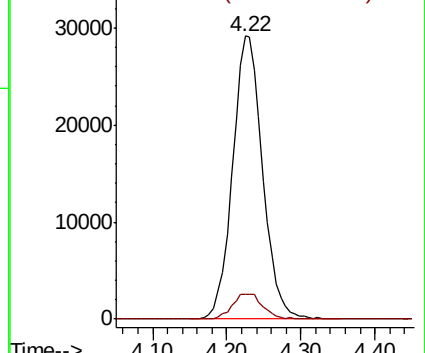
76 100

78 8.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#18

Methyl Acetate

Concen: 9.775 ug/l

RT: 4.52 min Scan# 456

Delta R.T. 0.01 min

Lab File: VY002455.D

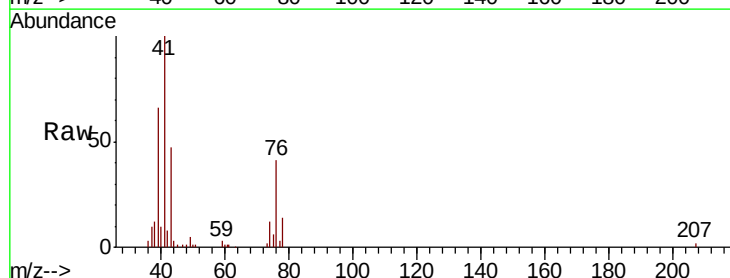
Acq: 23 Apr 2020 11:43

Tgt Ion: 43 Resp: 18069

Ion Ratio Lower Upper

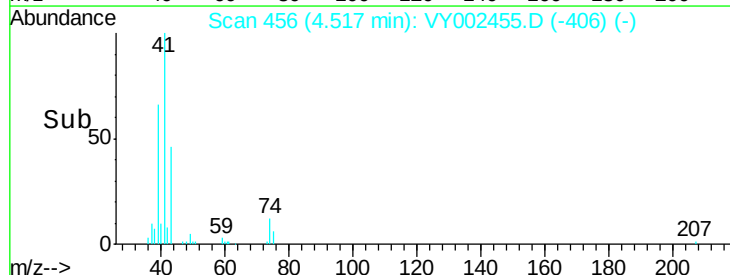
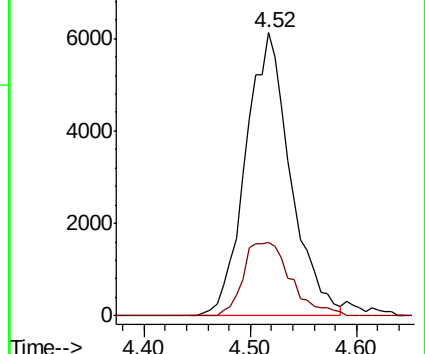
43 100

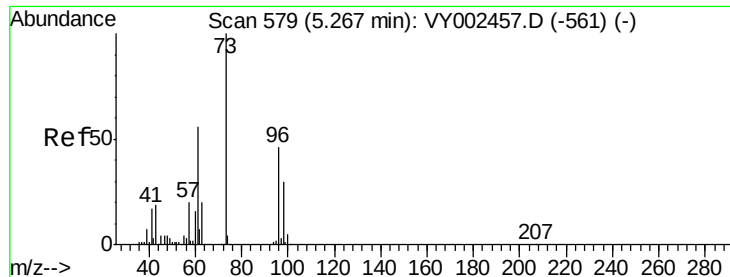
74 27.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

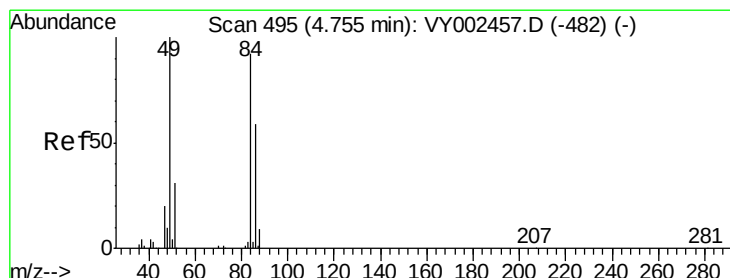
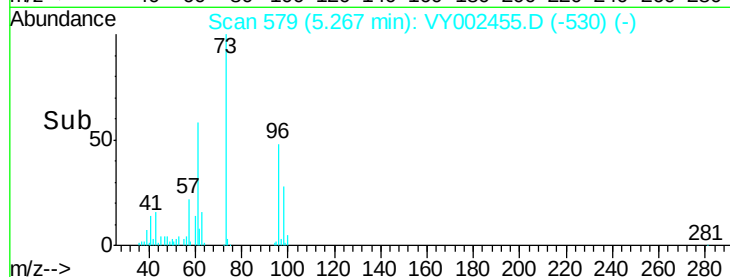
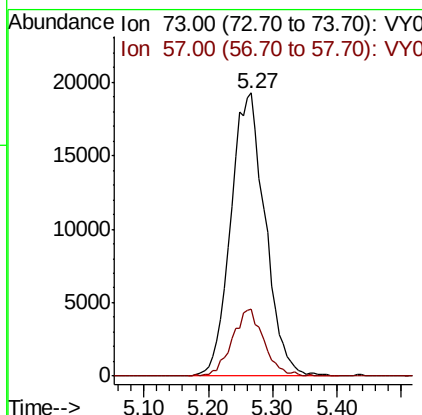
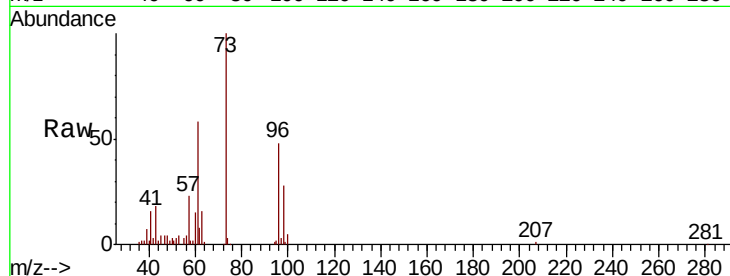




#19  
Methyl tert-butyl Ether  
Concen: 9.889 ug/l  
RT: 5.27 min Scan# 579  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

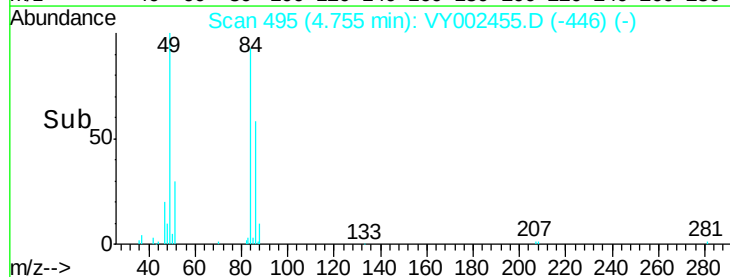
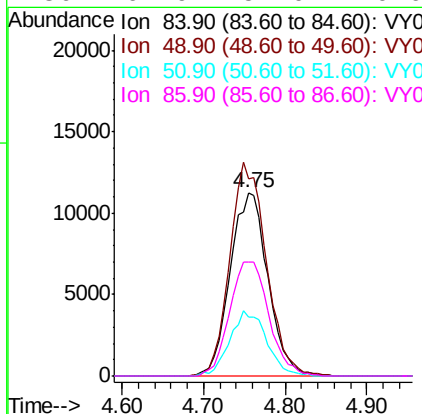
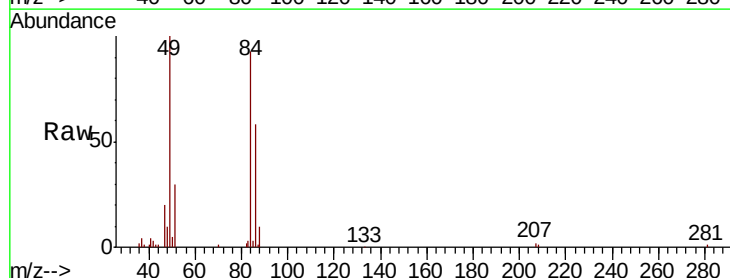
Instrument :  
MSVOA\_Y  
ClientSampleId :

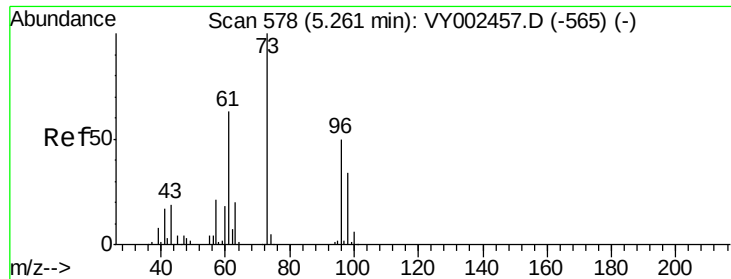
Tot Ion: 73 Resp: 71497  
Ion Ratio Lower Upper  
73 100  
57 23.5 16.0 24.0



#20  
Methylene Chloride  
Concen: 10.587 ug/l  
RT: 4.75 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 84 Resp: 35934  
Ion Ratio Lower Upper  
84 100  
49 107.6 86.9 130.3  
51 32.4 27.3 40.9  
86 61.9 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 10.092 ug/l

RT: 5.26 min Scan# 578

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

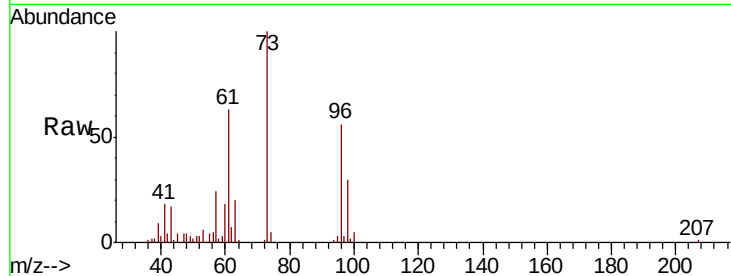
Tot Ion: 96 Resp: 30880

Ion Ratio Lower Upper

96 100

61 112.1 101.4 152.0

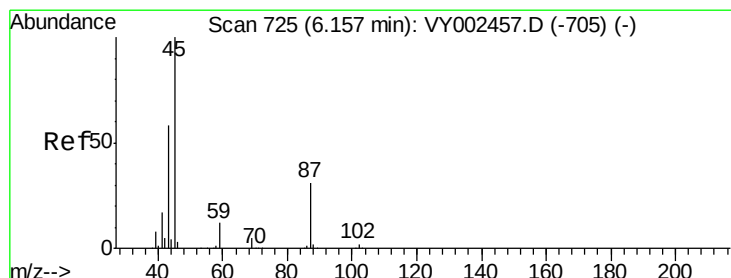
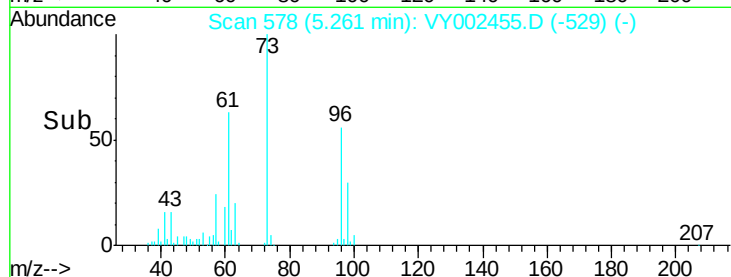
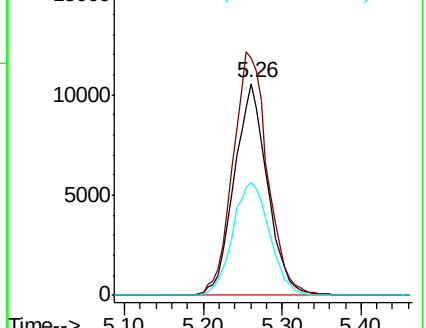
98 53.3 53.6 80.4#



Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0



#22

Diisopropyl ether

Concen: 10.267 ug/l

RT: 6.16 min Scan# 725

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Tgt Ion: 45 Resp: 81134

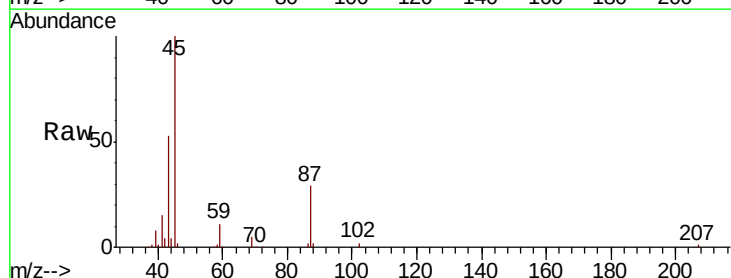
Ion Ratio Lower Upper

45 100

43 52.7 47.1 70.7

87 28.9 25.0 37.6

59 11.0 9.7 14.5

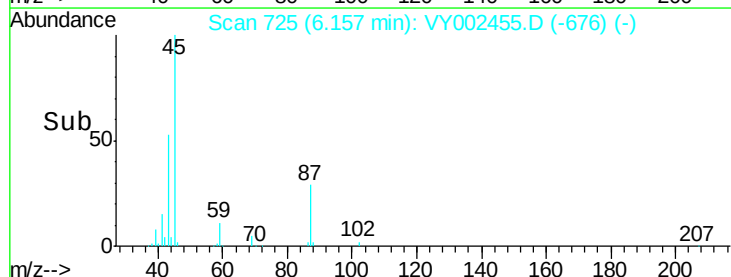
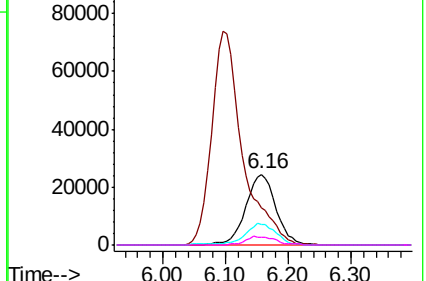


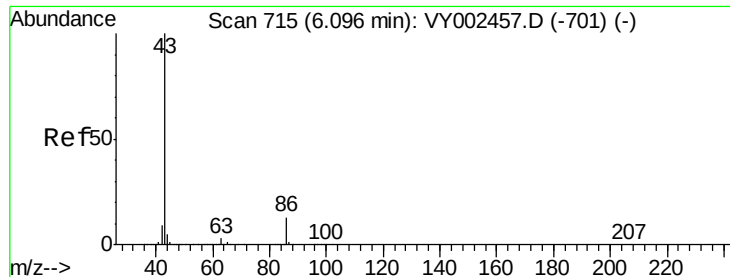
Abundance Ion 45.00 (44.70 to 45.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

Ion 59.00 (58.70 to 59.70): VY0





#23

Vinyl Acetate

Concen: 50.851 ug/l

RT: 6.10 min Scan# 715

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

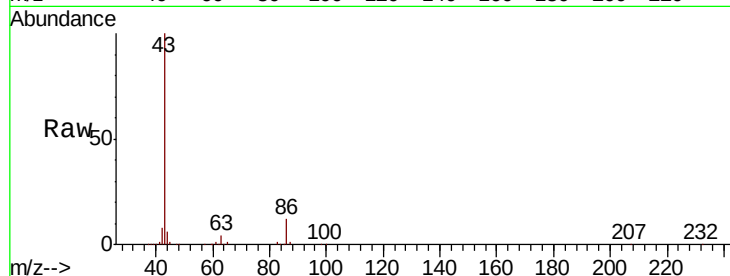
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 252042

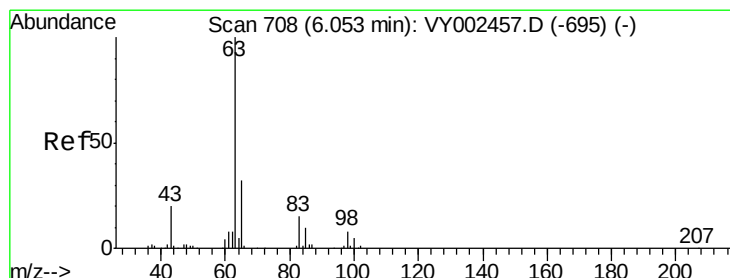
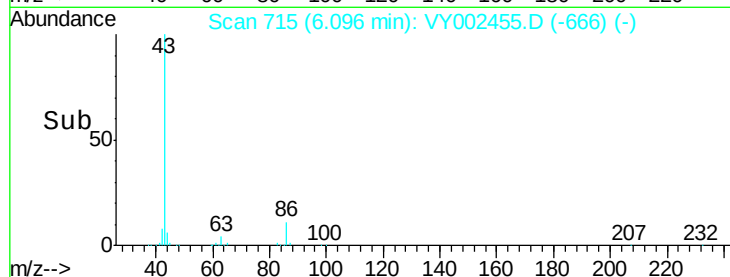
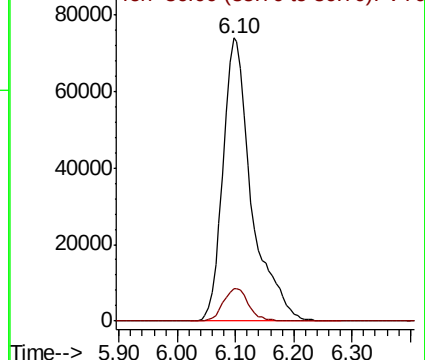
Ion Ratio Lower Upper

43 100

86 11.6 10.2 15.4



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 10.049 ug/l

RT: 6.06 min Scan# 709

Delta R.T. 0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

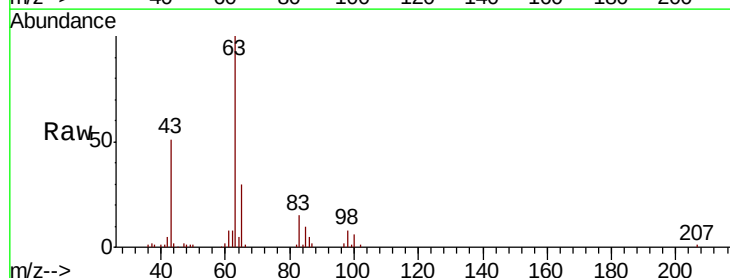
Tgt Ion: 63 Resp: 48145

Ion Ratio Lower Upper

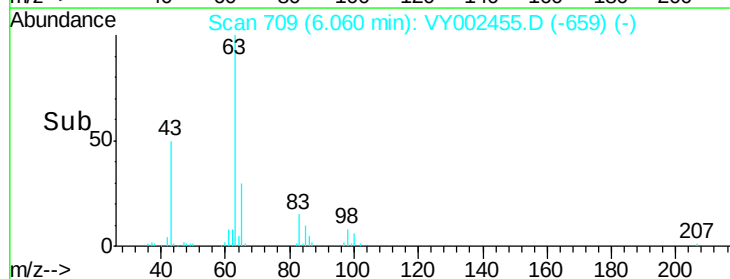
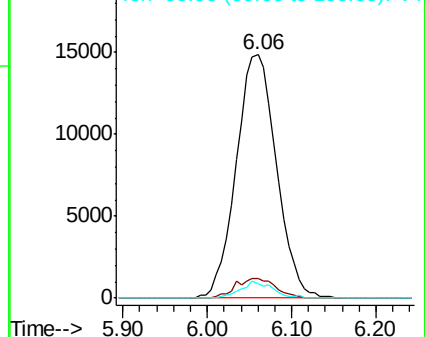
63 100

98 7.8 4.1 12.3

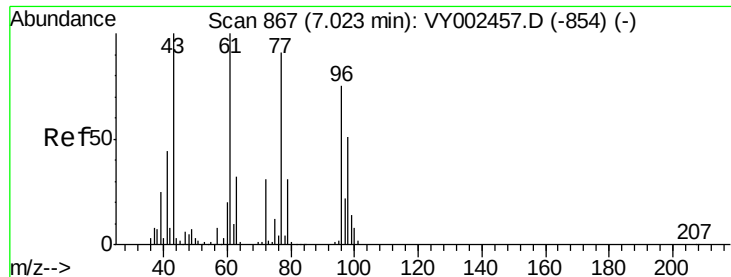
100 6.1 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0  
Ion 99.90 (99.60 to 100.60): VY0







#25

2-Butanone

Concen: 51.658 ug/l

RT: 7.02 min Scan# 867

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

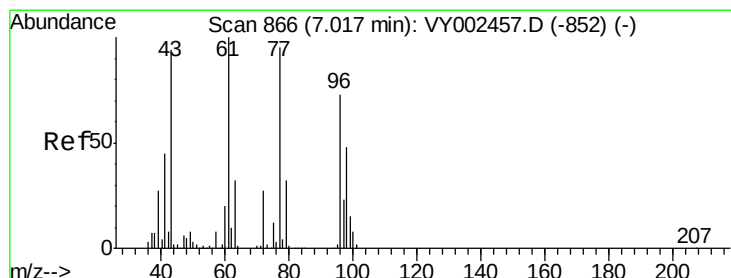
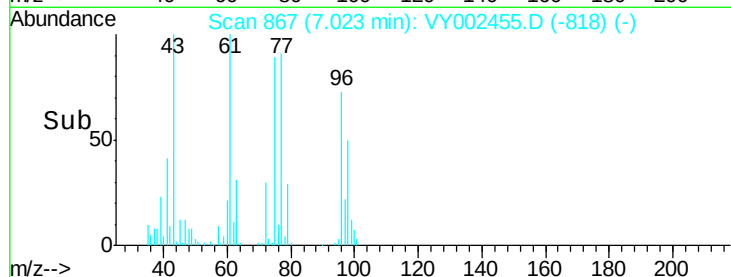
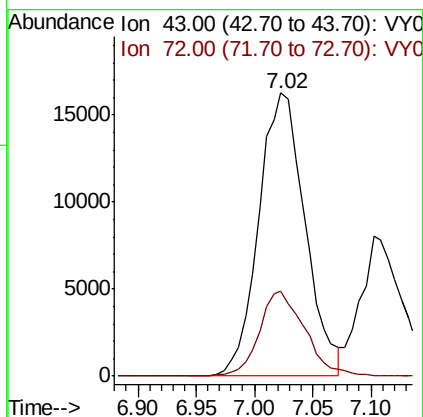
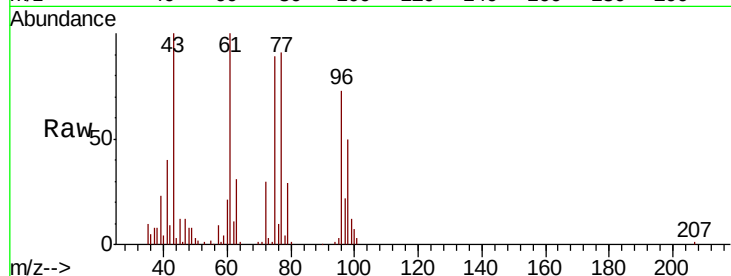
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 43 Resp: 44844

Ion Ratio Lower Upper

43 100

72 30.2 24.8 37.2



#26

2,2-Dichloropropane

Concen: 10.144 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.00 min

Lab File: VY002455.D

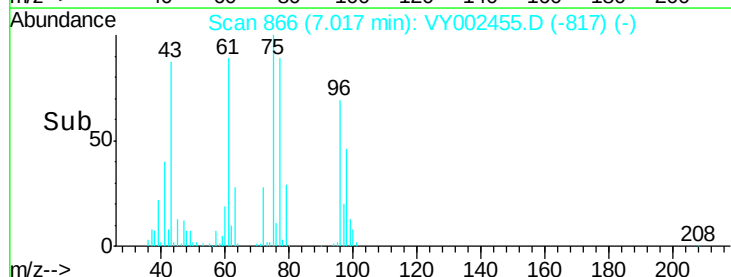
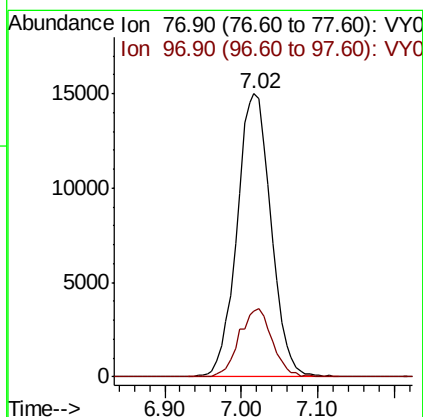
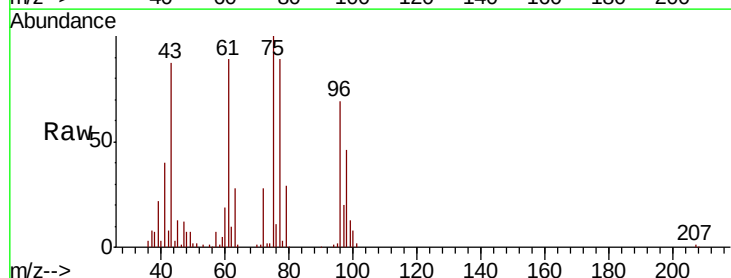
Acq: 23 Apr 2020 11:43

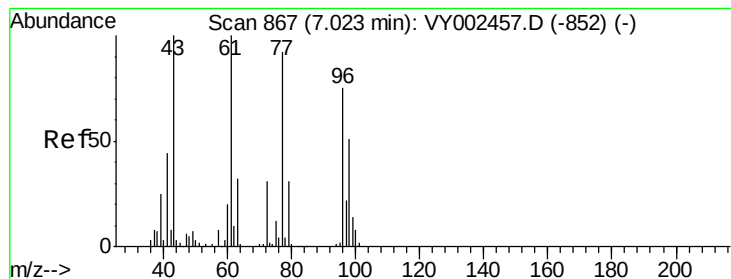
Tgt Ion: 77 Resp: 46235

Ion Ratio Lower Upper

77 100

97 23.2 12.0 36.0



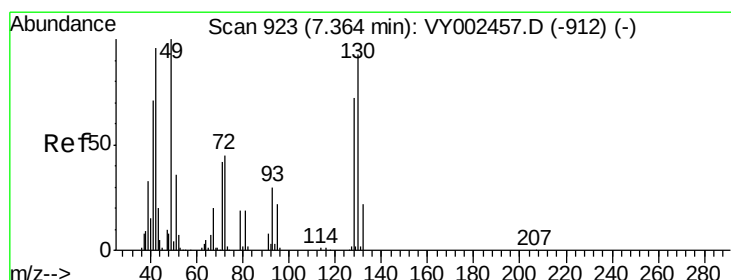
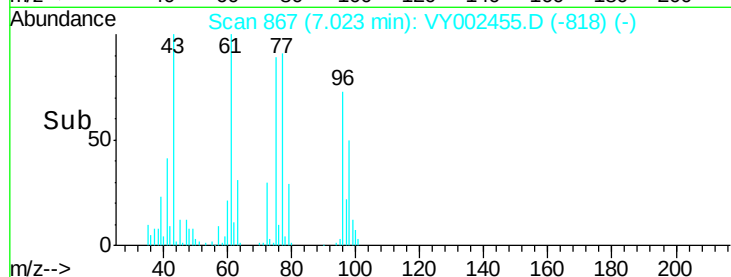
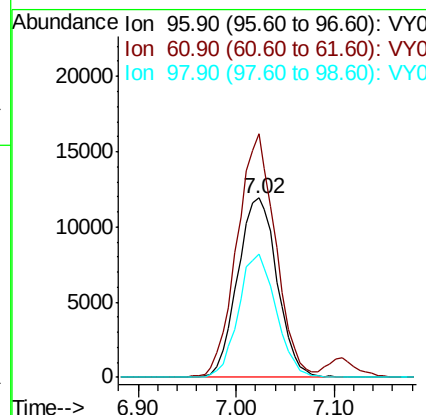
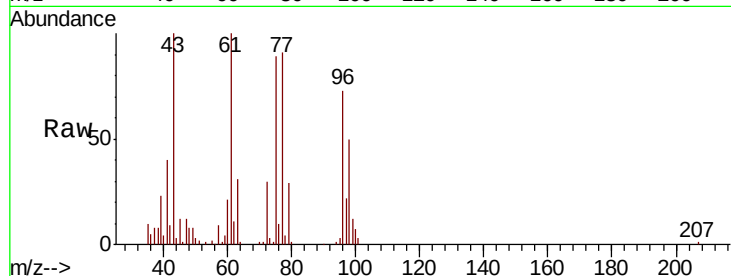


#27

cis-1,2-Dichloroethene  
Concen: 10.053 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Instrument :  
MSVOA\_Y  
ClientSampleId :

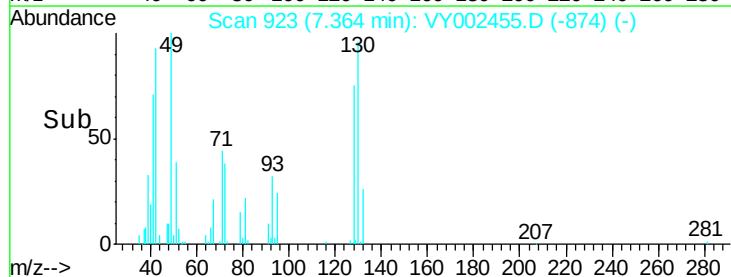
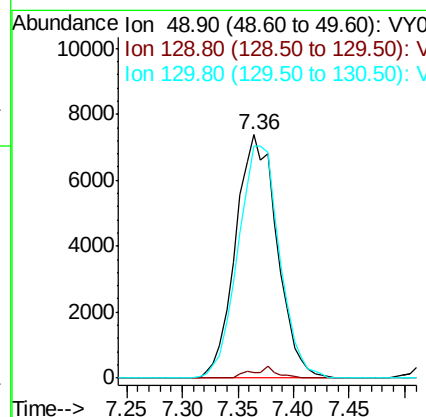
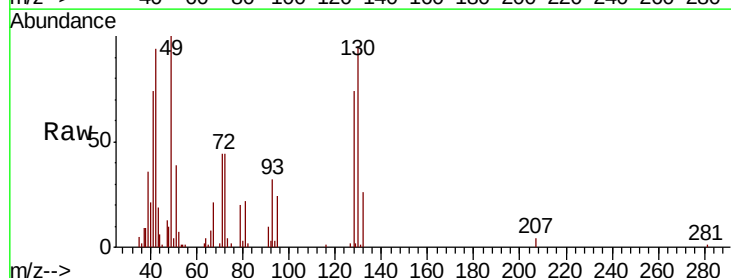
Tot Ion: 96 Resp: 33439  
Ion Ratio Lower Upper  
96 100  
61 132.4 0.0 262.6  
98 65.2 0.0 131.0

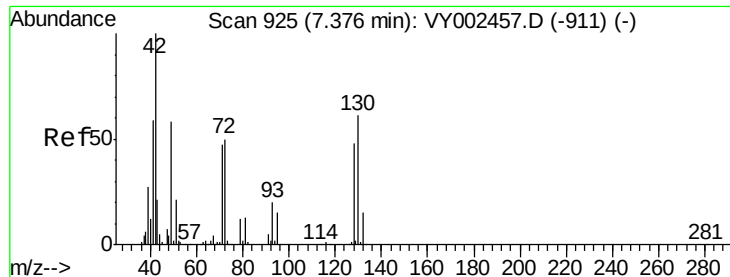


#28

Bromochloromethane  
Concen: 10.119 ug/l  
RT: 7.36 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 49 Resp: 19057  
Ion Ratio Lower Upper  
49 100  
129 2.7 0.0 5.6  
130 96.2 76.3 114.5

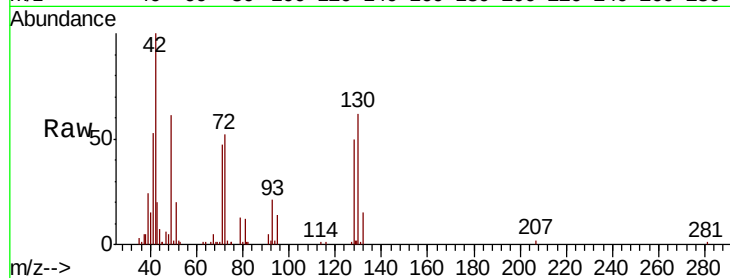




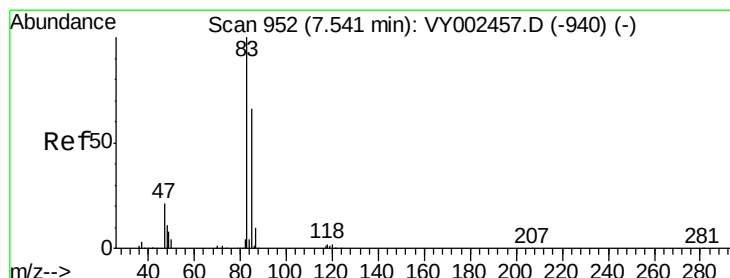
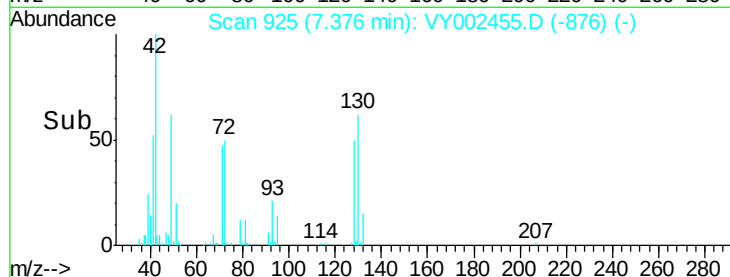
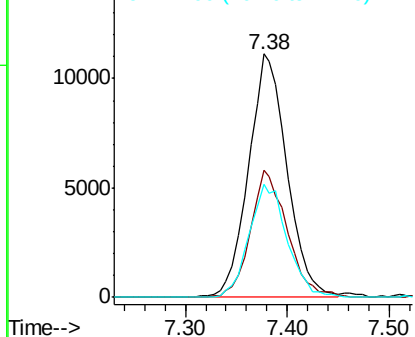
#29  
Tetrahydrofuran  
Concen: 50.357 ug/l  
RT: 7.38 min Scan# 925  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Instrument :  
MSVOA\_Y  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 50.0  | 39.5  | 59.3  |
| 71      | 45.8  | 37.6  | 56.4  |

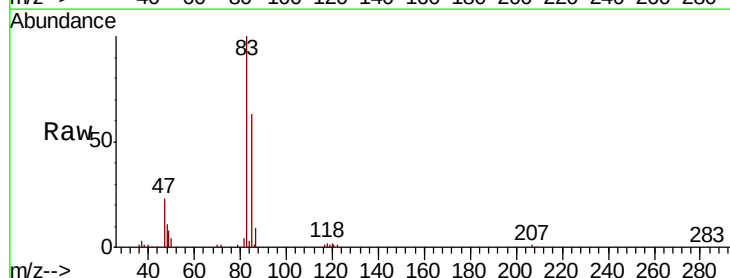


Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0

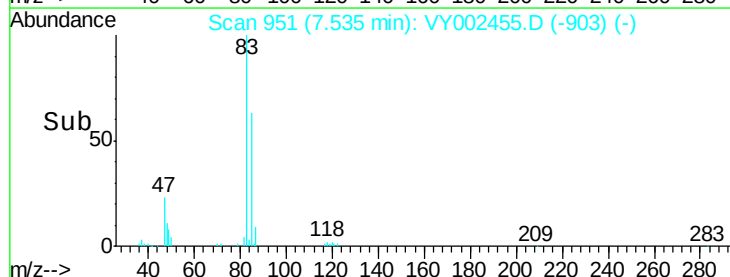
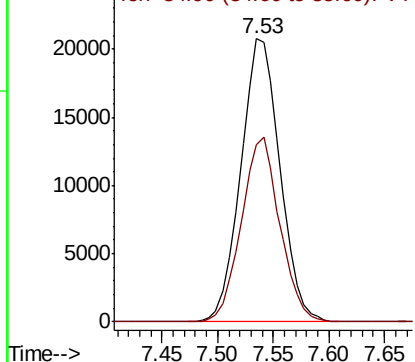


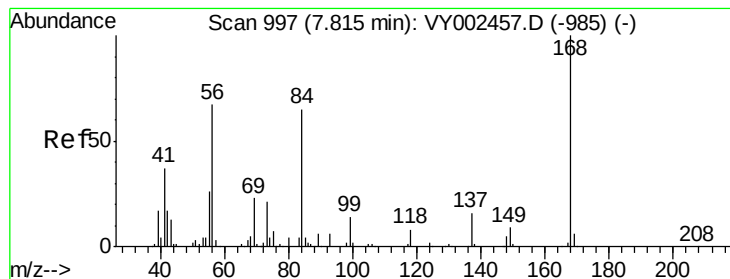
#30  
Chloroform  
Concen: 9.952 ug/l  
RT: 7.53 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 62.5  | 52.4  | 78.6  |



Abundance Ion 82.90 (82.60 to 83.60): VY0  
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 9.988 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

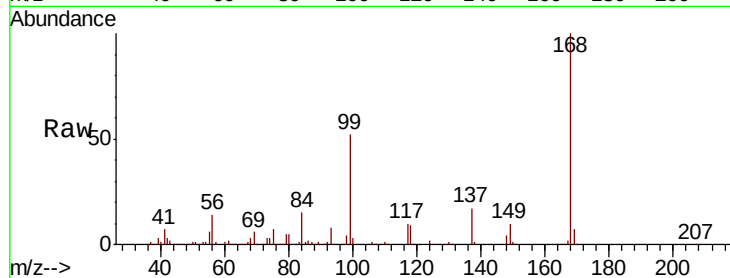
Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

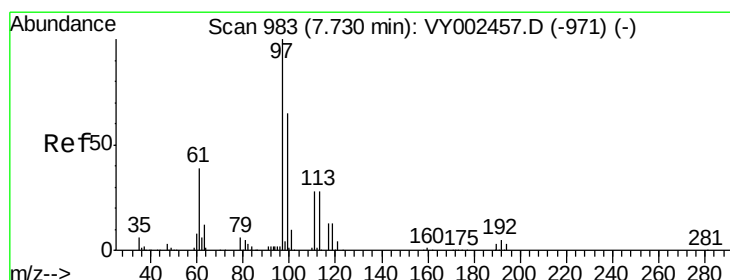
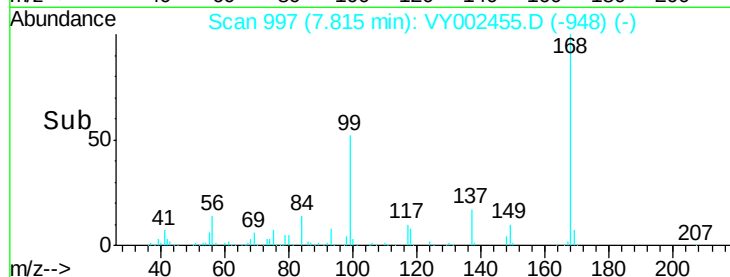
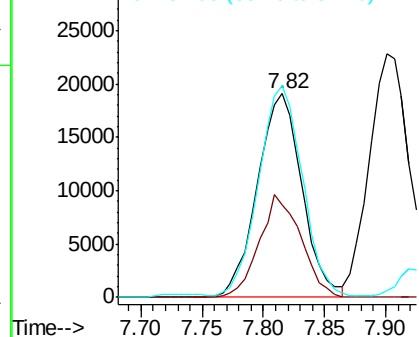
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 56 Resp: 48469

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 45.3  | 27.0  | 40.6# |
| 84  | 102.3 | 77.4  | 116.2 |



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 9.591 ug/l

RT: 7.73 min Scan# 983

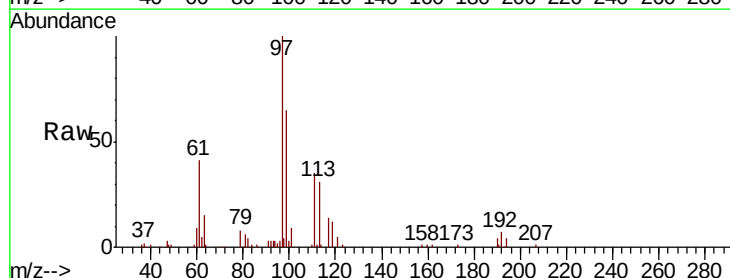
Delta R.T. 0.00 min

Lab File: VY002455.D

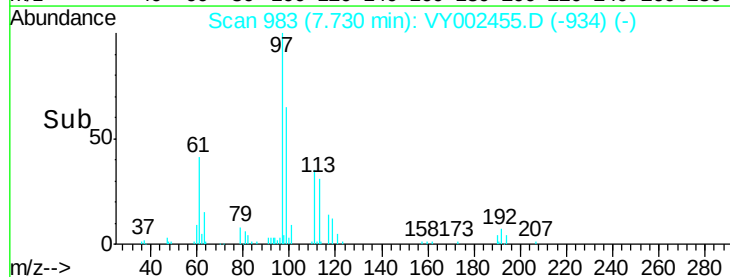
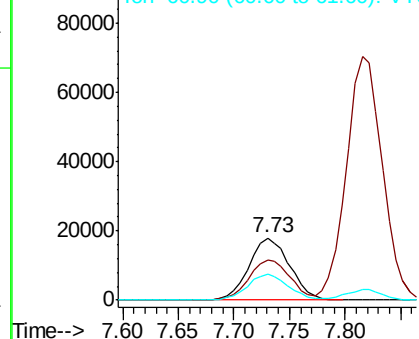
Acq: 23 Apr 2020 11:43

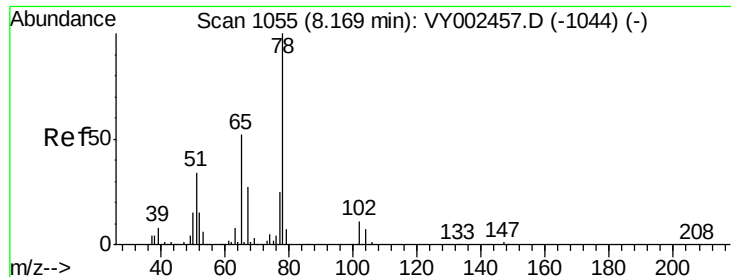
Tgt Ion: 97 Resp: 45837

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 65.6  | 51.6  | 77.4  |
| 61  | 41.0  | 30.6  | 45.8  |



Abundance Ion 96.90 (96.60 to 97.60): VY0  
Ion 98.90 (98.60 to 99.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0

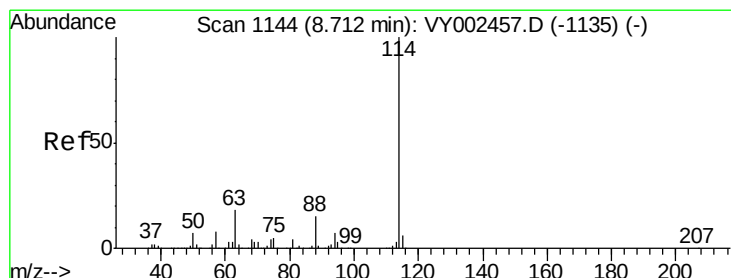
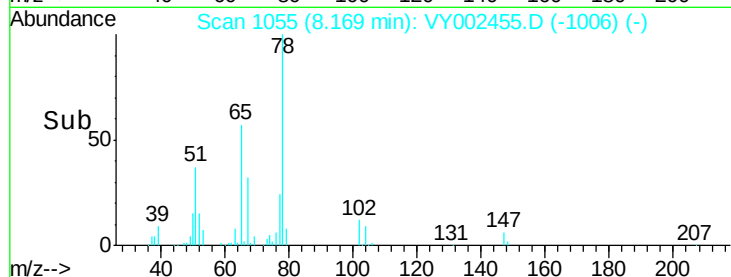
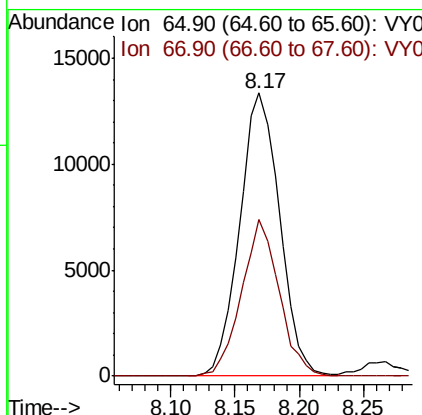
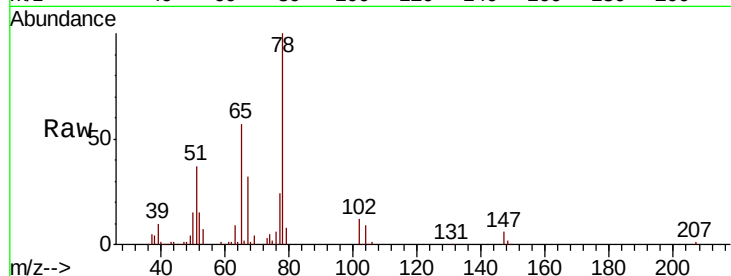




#33  
 1,2-Dichloroethane-d4  
 Concen: 10.374 ug/l  
 RT: 8.17 min Scan# 1055  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

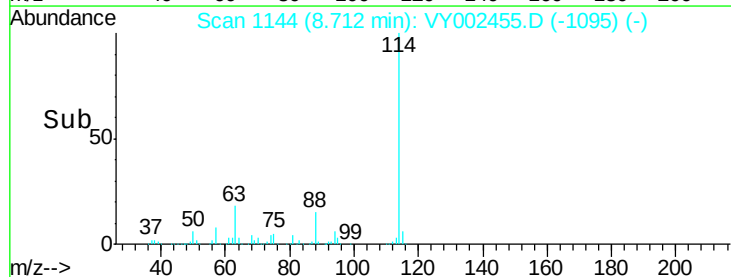
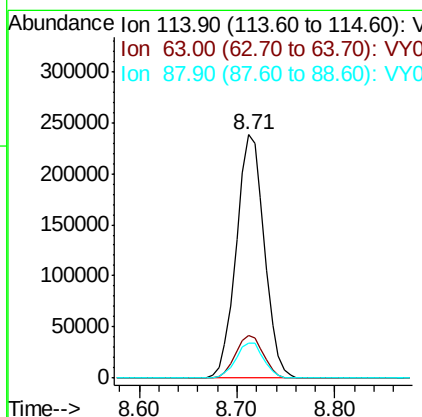
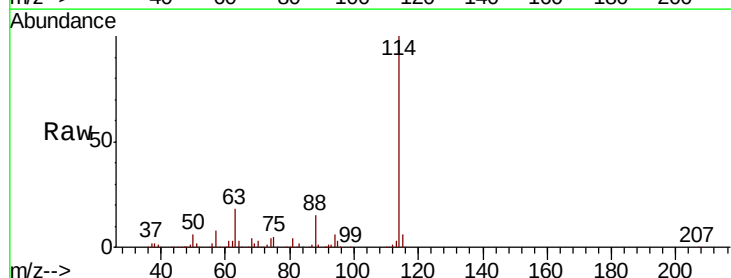
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

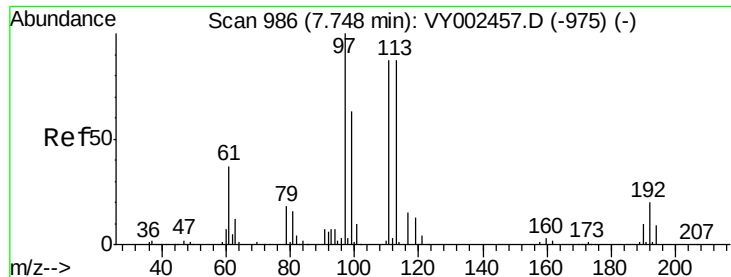
Tot Ion: 65 Resp: 28705  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Tgt Ion: 114 Resp: 471546  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 35.6  
 88 14.6 0.0 29.4

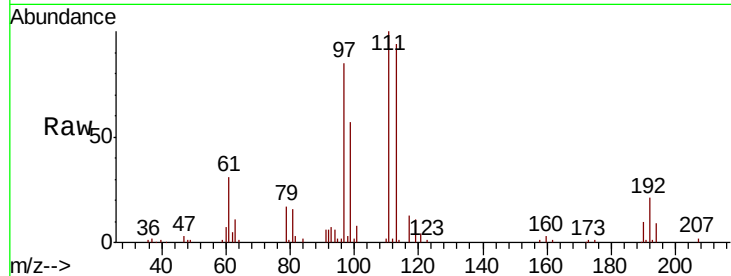




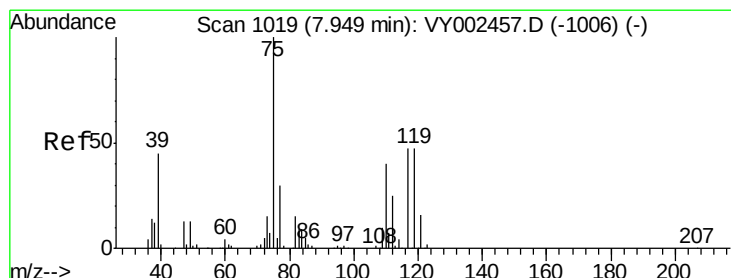
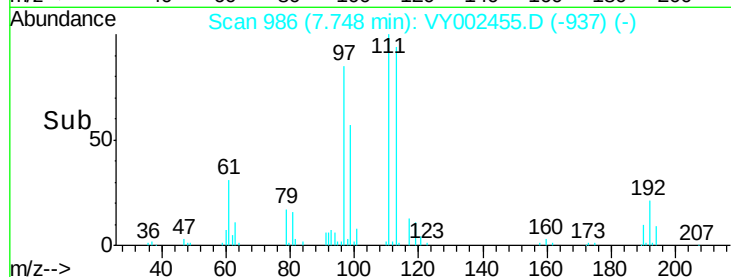
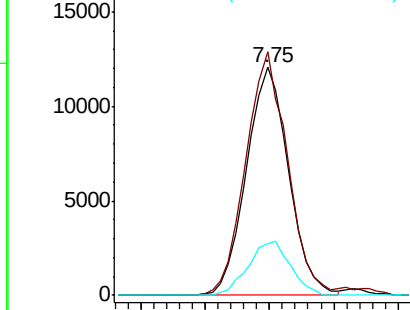
#35  
 Dibromofluoromethane  
 Concen: 10.250 ug/l  
 RT: 7.75 min Scan# 986  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:113 Resp: 27356  
 Ion Ratio Lower Upper  
 113 100  
 111 105.9 81.0 121.4  
 192 23.7 18.6 27.8

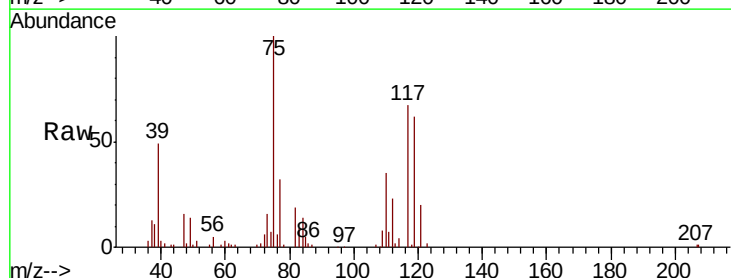


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

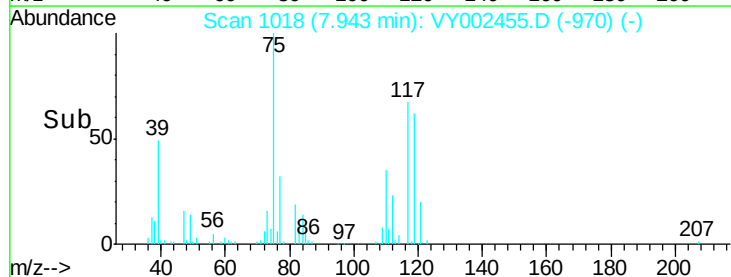
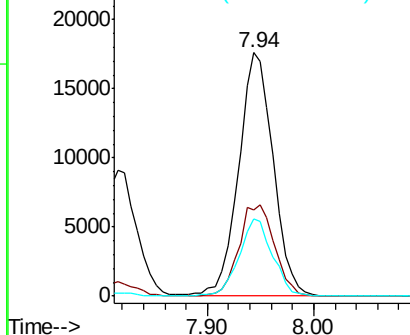


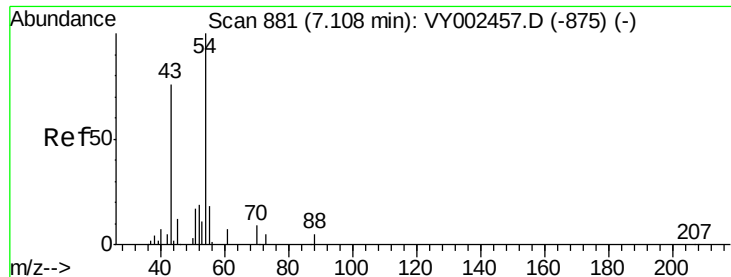
#36  
 1,1-Dichloropropene  
 Concen: 9.942 ug/l  
 RT: 7.94 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Tgt Ion: 75 Resp: 40237  
 Ion Ratio Lower Upper  
 75 100  
 110 38.5 19.4 58.4  
 77 30.5 24.7 37.1



Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VY0

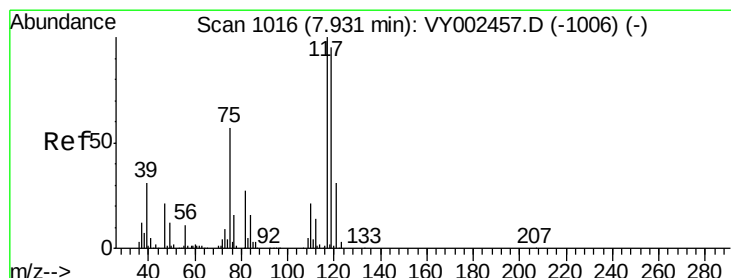
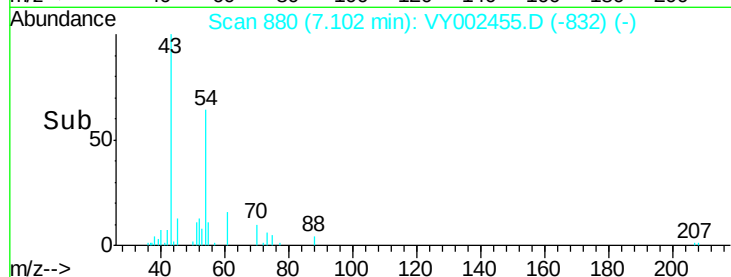
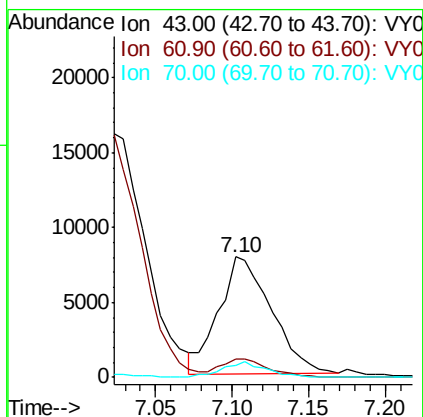
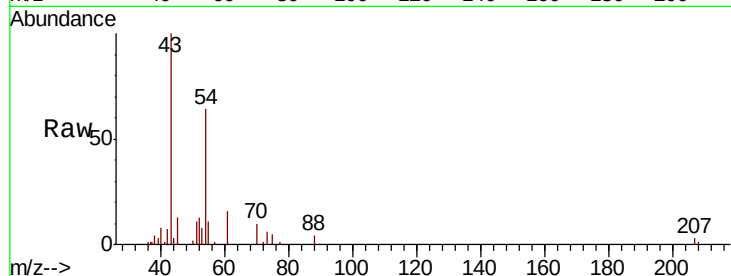




#37  
Ethyl Acetate  
Concen: 9.367 ug/l  
RT: 7.10 min Scan# 880  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

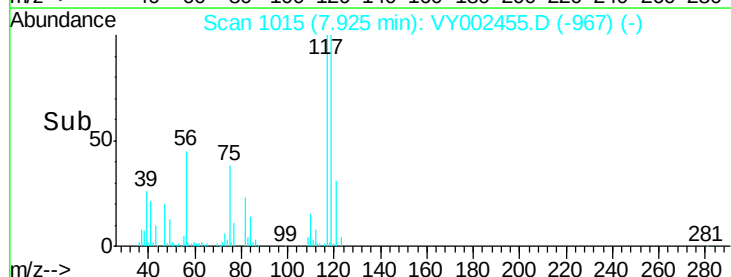
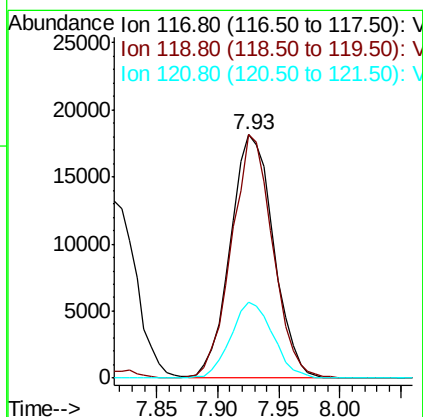
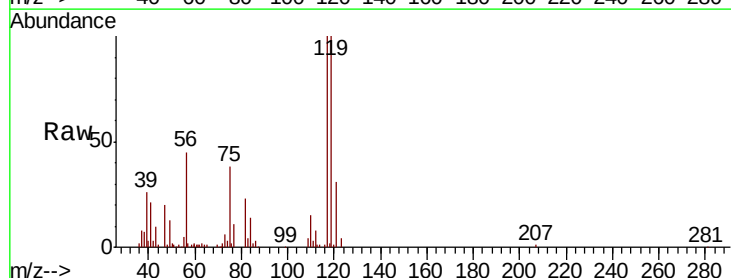
Instrument :  
MSVOA\_Y  
ClientSampleId :

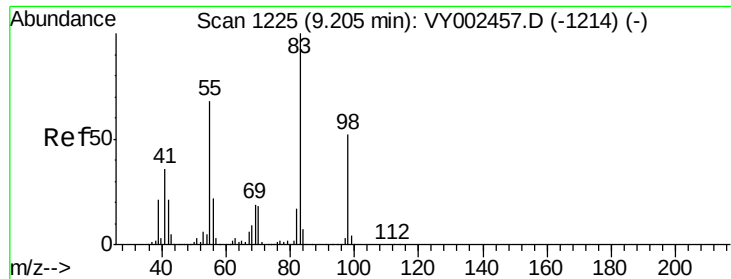
Tot Ion: 43 Resp: 18696  
Ion Ratio Lower Upper  
43 100  
61 14.1 11.8 17.8  
70 11.5 9.3 13.9



#38  
Carbon Tetrachloride  
Concen: 9.639 ug/l  
RT: 7.93 min Scan# 1015  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 117 Resp: 44592  
Ion Ratio Lower Upper  
117 100  
119 100.0 75.9 113.9  
121 31.4 24.5 36.7

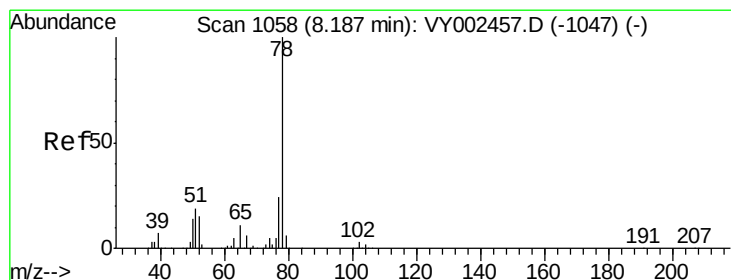
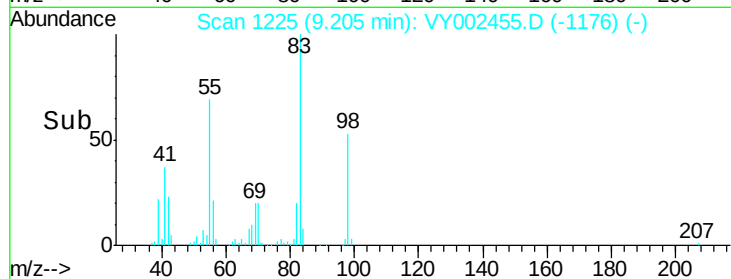
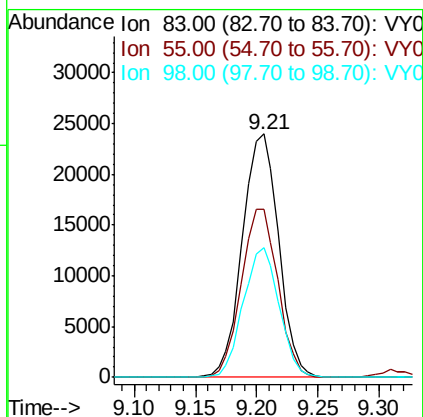
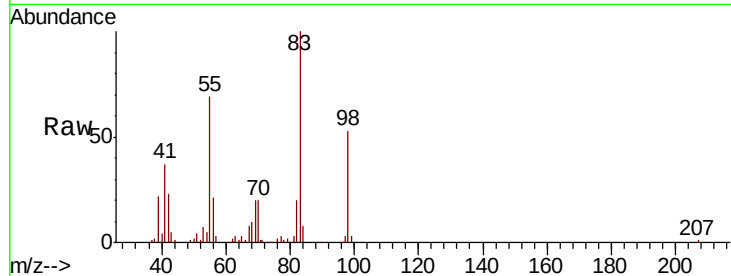




#39  
Methylvlcyclohexane  
Concen: 9.440 ug/l  
RT: 9.21 min Scan# 1225  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

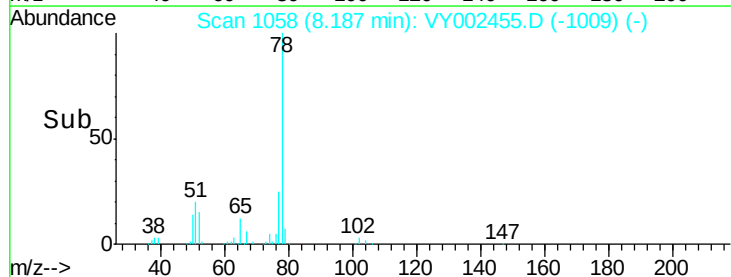
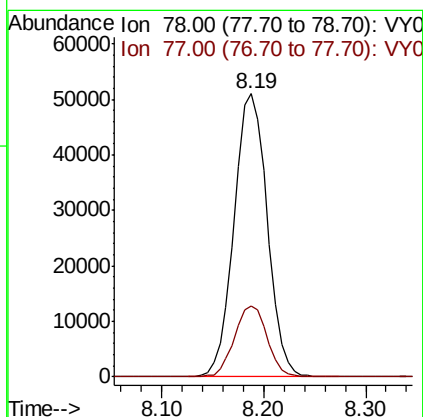
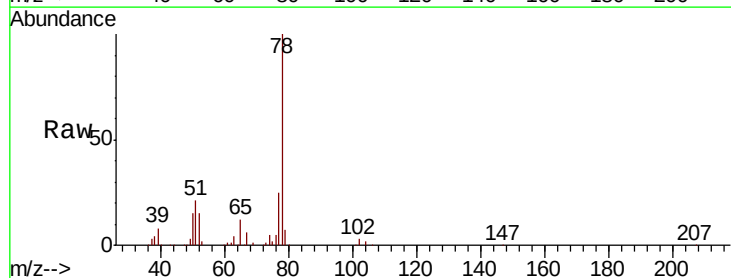
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 83 Resp: 49640  
Ion Ratio Lower Upper  
83 100  
55 69.1 54.2 81.2  
98 53.3 41.9 62.9

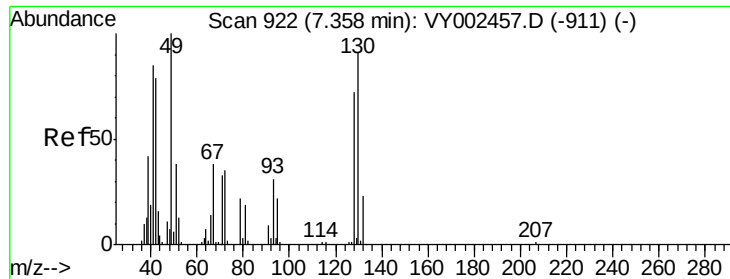


#40  
Benzene  
Concen: 9.856 ug/l  
RT: 8.19 min Scan# 1058  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 78 Resp: 115107  
Ion Ratio Lower Upper  
78 100  
77 25.0 19.4 29.0



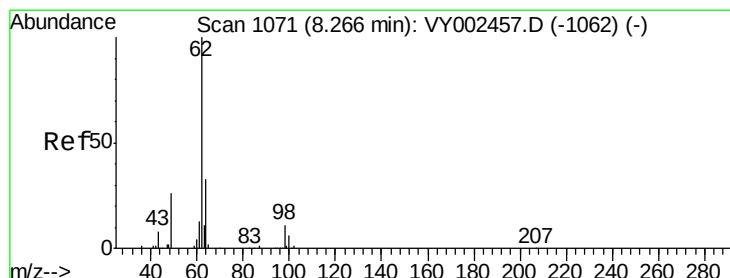
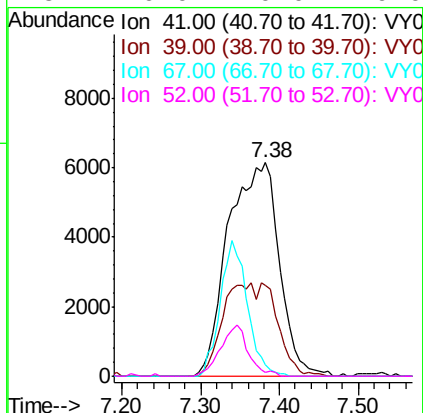
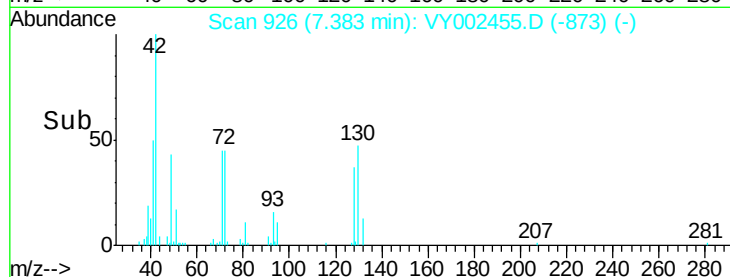
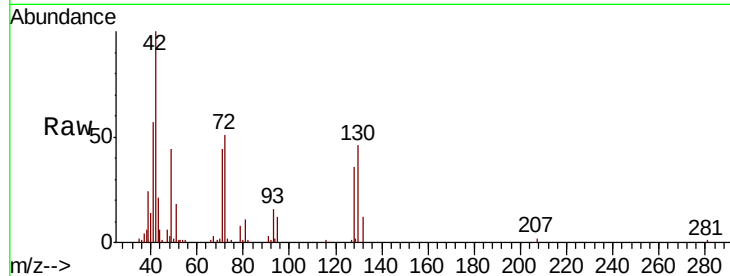




#41  
Methacrylonitrile  
Concen: 11.468 ug/l  
RT: 7.38 min Scan# 926  
Delta R.T. 0.02 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

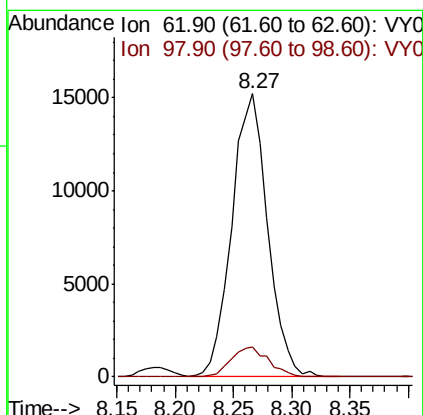
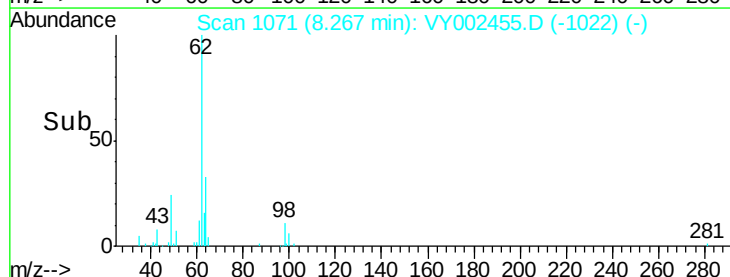
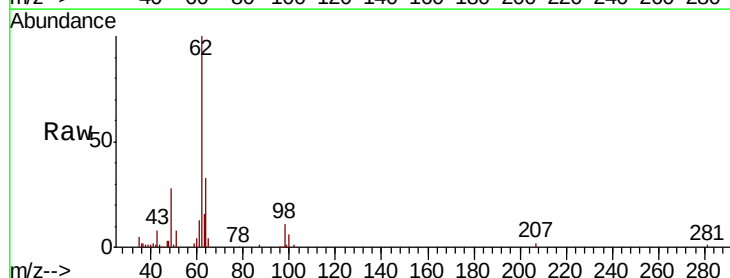
Instrument :  
MSVOA\_Y  
ClientSampleId :

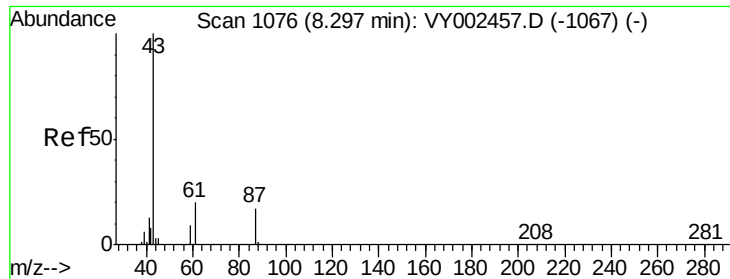
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 27556  |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 28.6  | 85.7  | 128.5# |
| 67       | 0.0   | 0.0   | 0.0    |
| 52       | 0.0   | 0.0   | 0.0    |



#42  
1,2-Dichloroethane  
Concen: 9.679 ug/l  
RT: 8.27 min Scan# 1071  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 32719 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 11.0  | 0.0   | 20.6  |





#43

Isopropyl Acetate

Concen: 10.160 ug/l

RT: 8.30 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

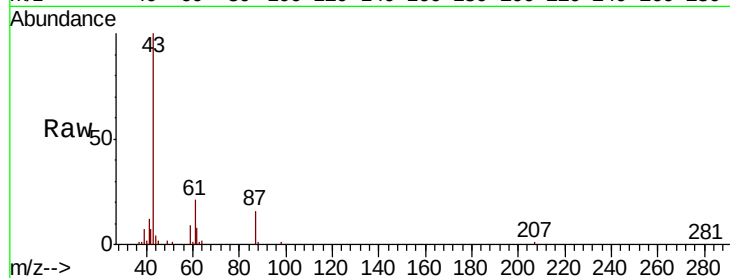
Tot Ion: 43 Resp: 37837

Ion Ratio Lower Upper

43 100

61 30.1 25.0 37.4

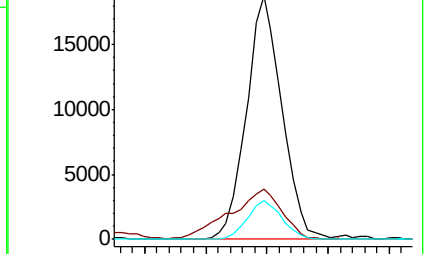
87 15.5 13.0 19.4



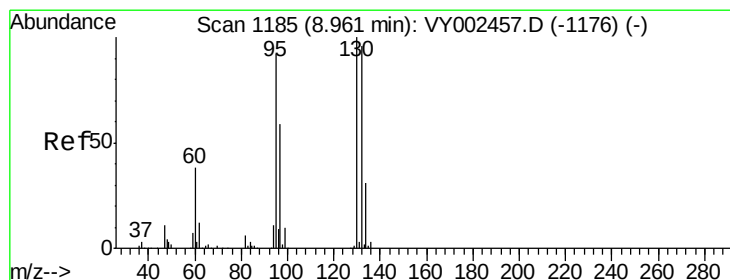
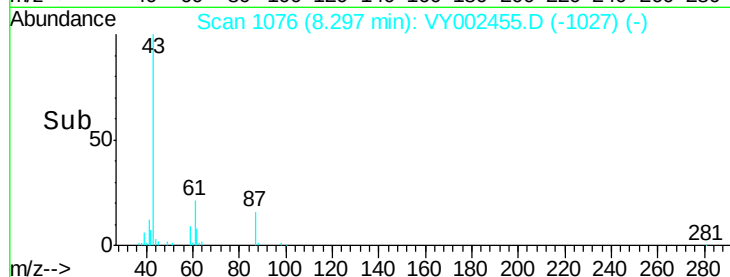
Abundance Ion 43.00 (42.70 to 43.70): VY002455.D (-1027) (-)

Ion 61.00 (60.70 to 61.70): VY002455.D (-1027) (-)

Ion 87.00 (86.70 to 87.70): VY002455.D (-1027) (-)



Time-->



#44

Trichloroethene

Concen: 9.818 ug/l

RT: 8.96 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VY002455.D

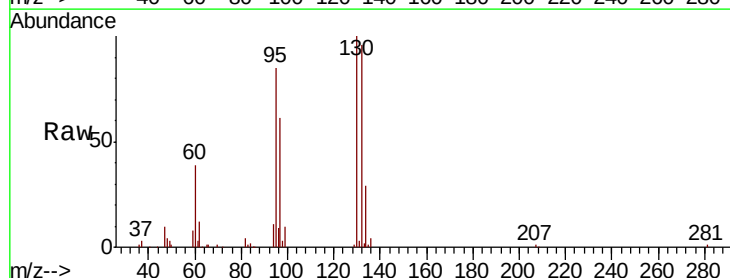
Acq: 23 Apr 2020 11:43

Tgt Ion:130 Resp: 35940

Ion Ratio Lower Upper

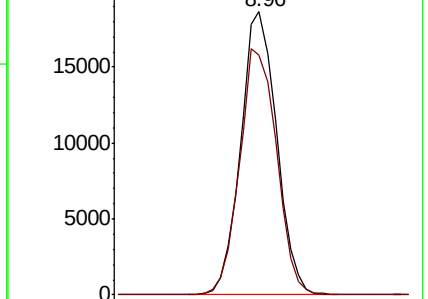
130 100

95 84.9 0.0 184.2

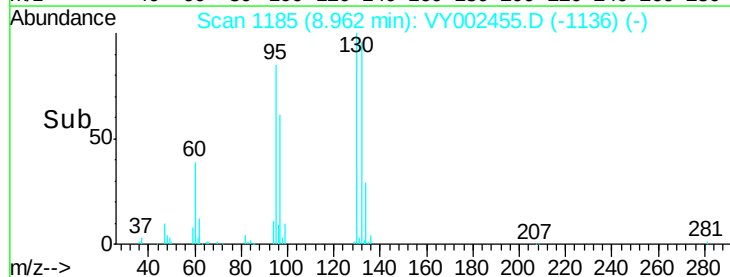


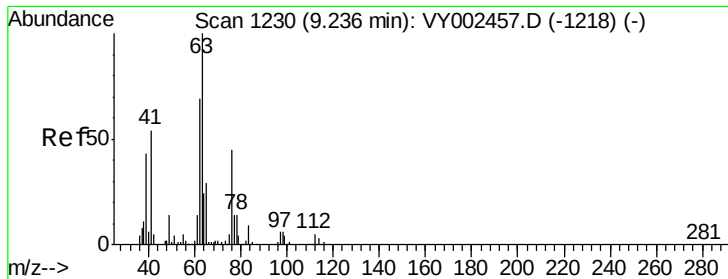
Abundance Ion 129.80 (129.50 to 130.50): VY002455.D (-1136) (-)

Ion 94.90 (94.60 to 95.60): VY002455.D (-1136) (-)



Time-->

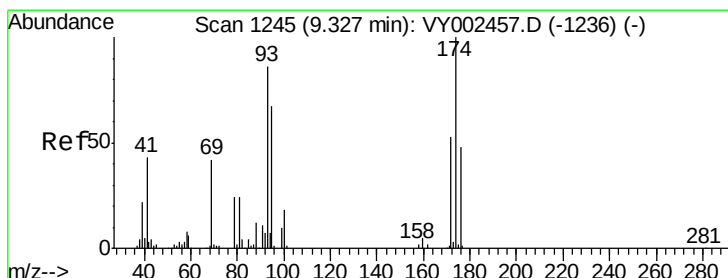
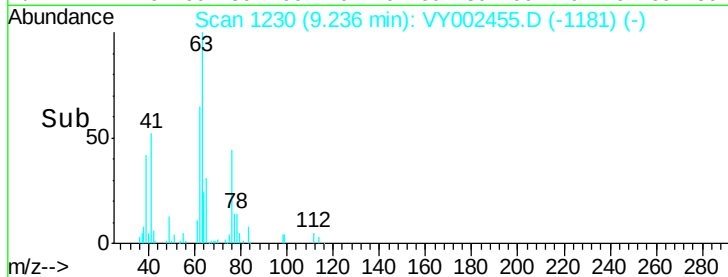
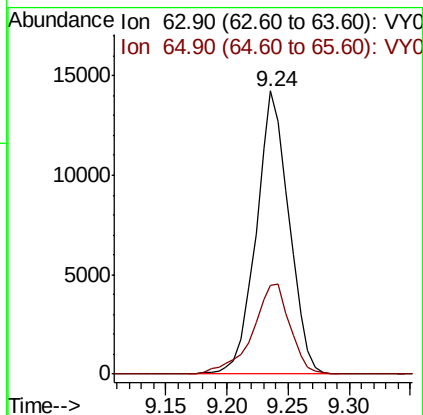
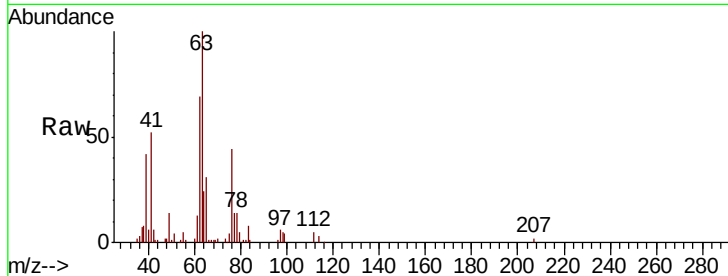




#45  
 1,2-Dichloropropane  
 Concen: 9.864 ug/l  
 RT: 9.24 min Scan# 1230  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

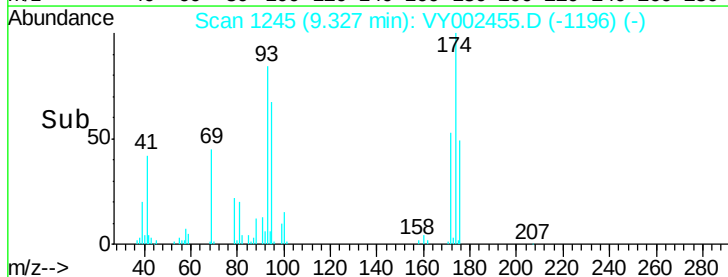
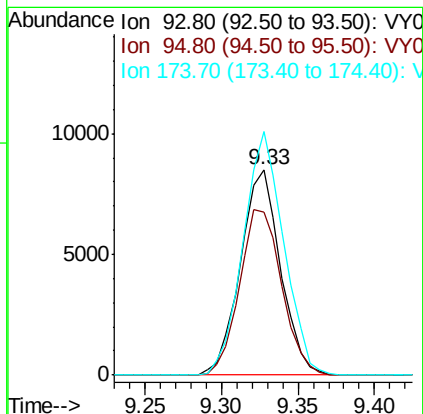
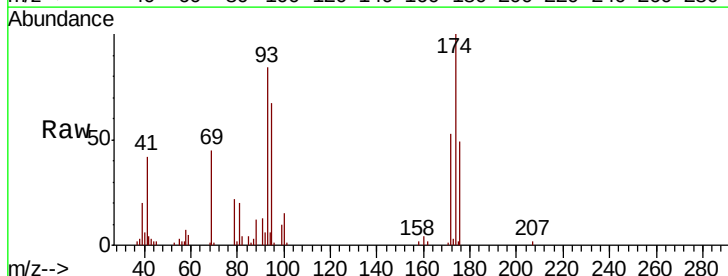
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

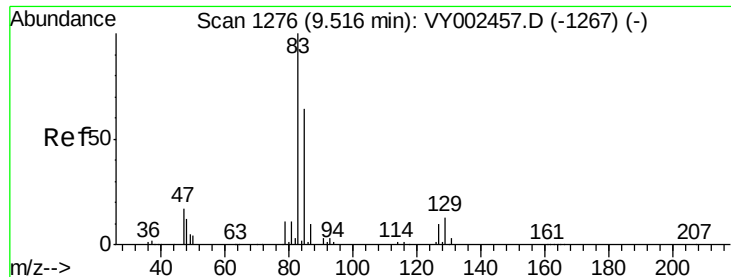
Tot Ion: 63 Resp: 26582  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 23.4 35.0



#46  
 Dibromomethane  
 Concen: 9.918 ug/l  
 RT: 9.33 min Scan# 1245  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Tgt Ion: 93 Resp: 15510  
 Ion Ratio Lower Upper  
 93 100  
 95 84.5 65.4 98.0  
 174 119.6 94.8 142.2





#47

Bromodichloromethane

Concen: 10.122 ug/l

RT: 9.52 min Scan# 1276

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

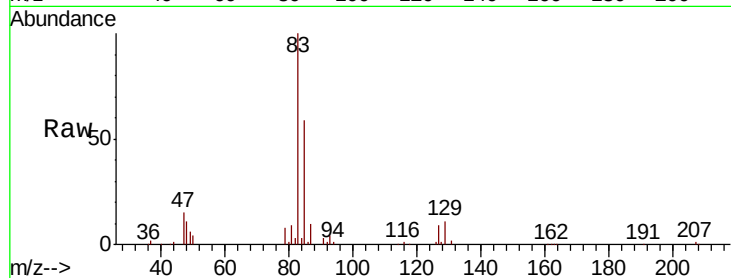
Tot Ion: 83 Resp: 39677

Ion Ratio Lower Upper

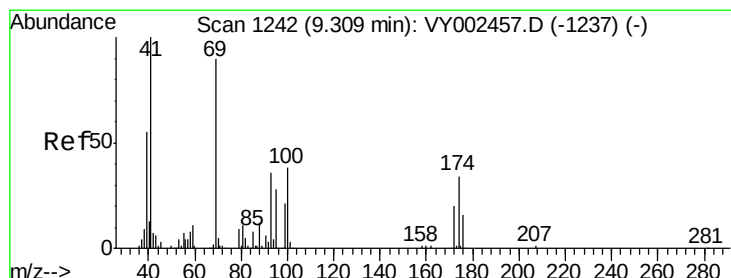
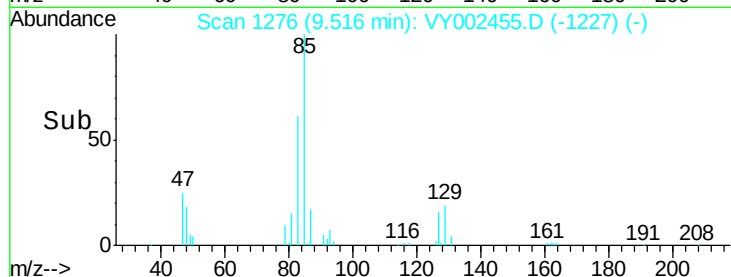
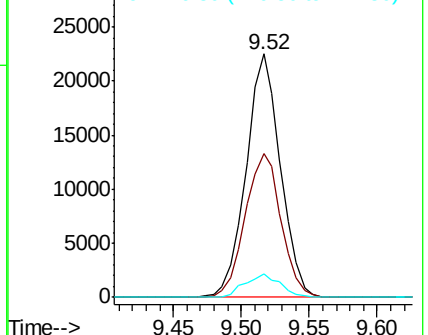
83 100

85 59.0 51.2 76.8

127 9.5 7.7 11.5



Abundance Ion 82.90 (82.60 to 83.60): VY0  
Ion 84.90 (84.60 to 85.60): VY0  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 10.068 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

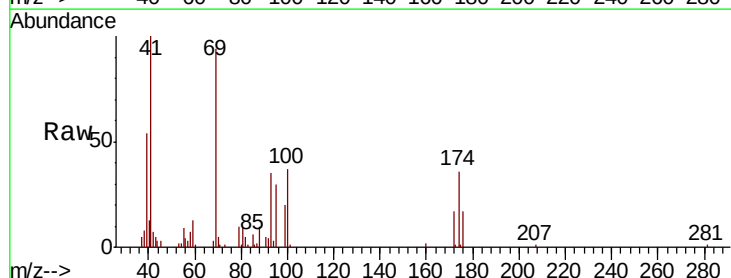
Tgt Ion: 41 Resp: 17083

Ion Ratio Lower Upper

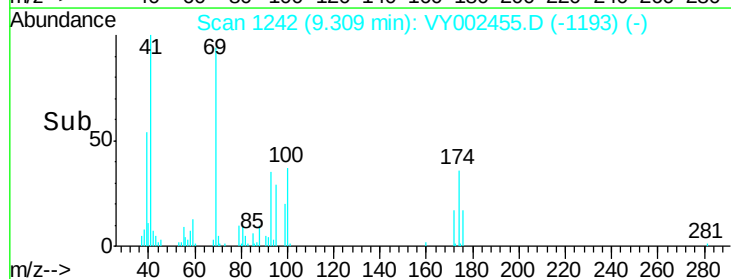
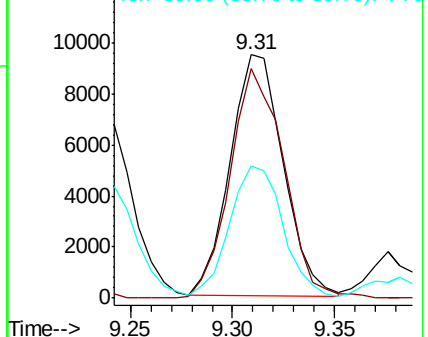
41 100

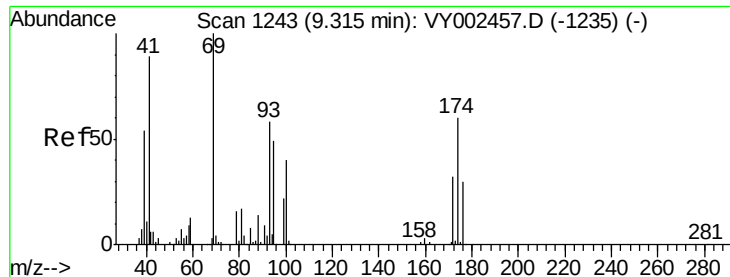
69 96.5 77.9 116.9

39 55.7 47.9 71.9



Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0





#49

1,4-Dioxane

Concen: 184.200 ug/l

RT: 9.32 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :  
MSVOA\_Y  
ClientSampleId :

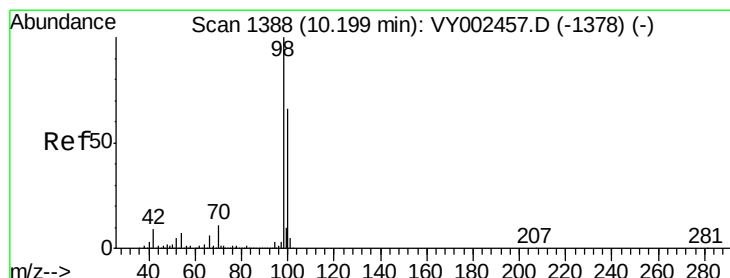
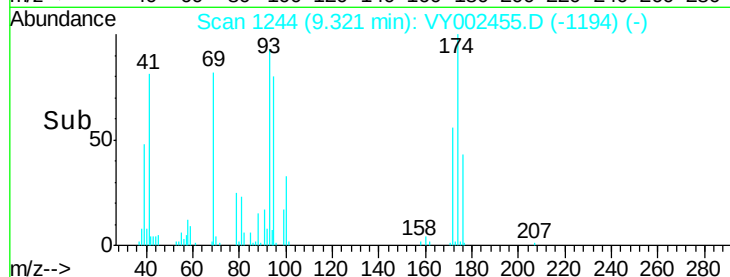
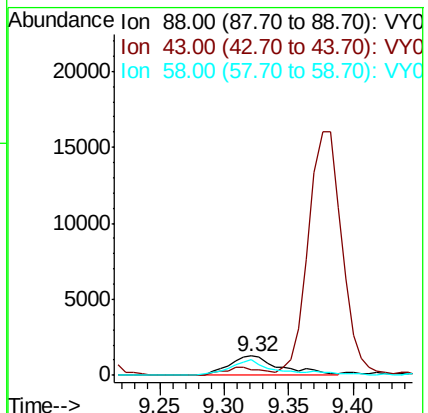
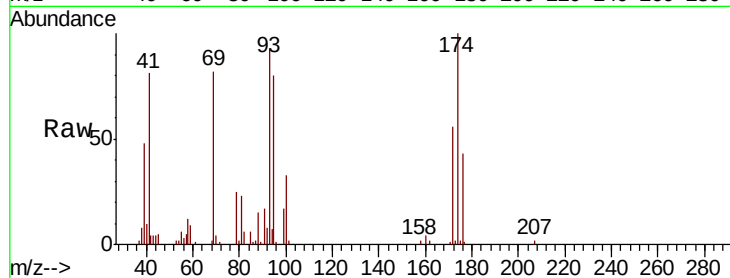
Tot Ion: 88 Resp: 3624

Ion Ratio Lower Upper

88 100

43 29.6 22.9 34.3

58 60.0 49.5 74.3



#50

Toluene-d8

Concen: 10.391 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VY002455.D

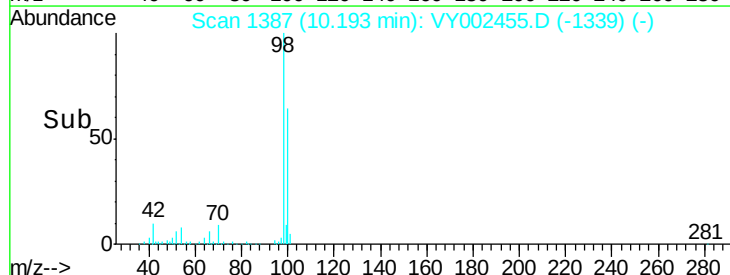
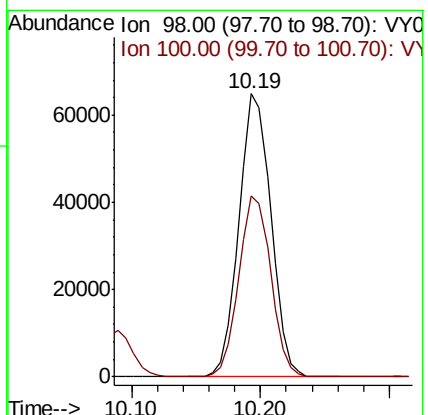
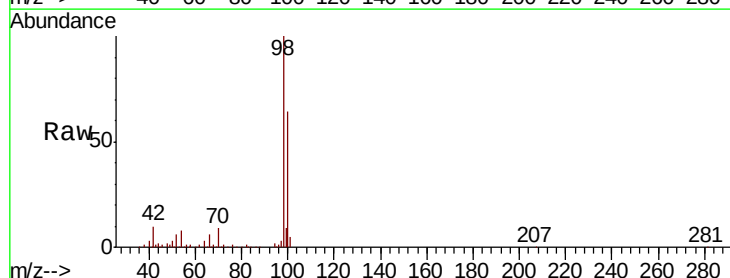
Acq: 23 Apr 2020 11:43

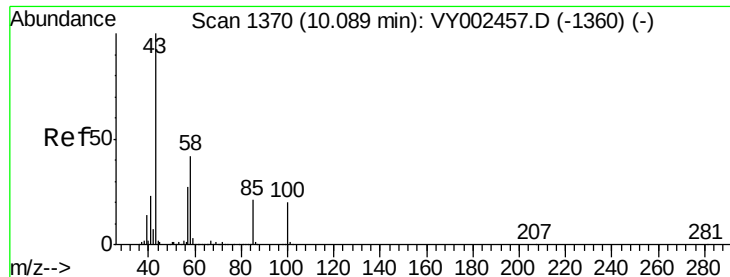
Tgt Ion: 98 Resp: 111752

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7

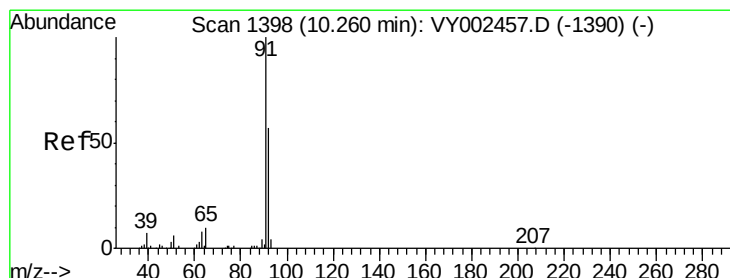
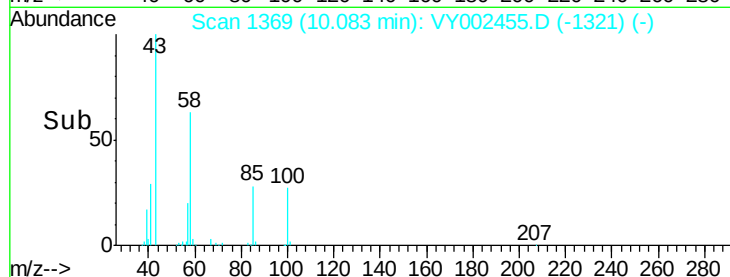
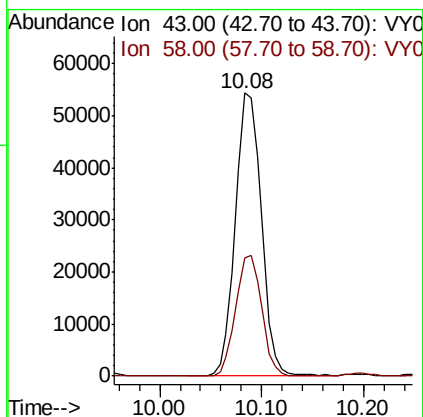
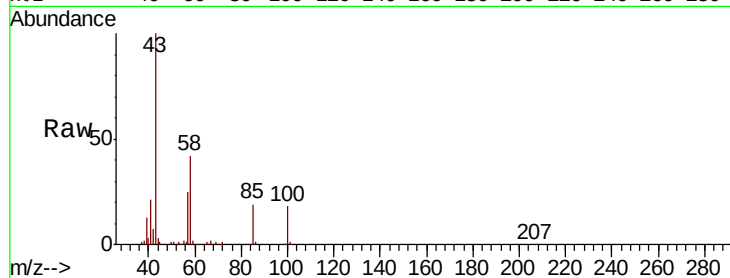




#51  
4-Methyl-2-Pentanone  
Concen: 49.822 ug/l  
RT: 10.08 min Scan# 1369  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

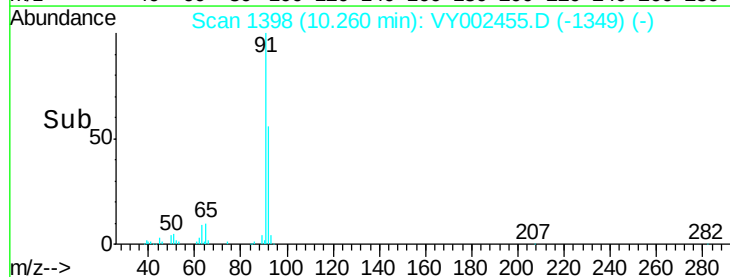
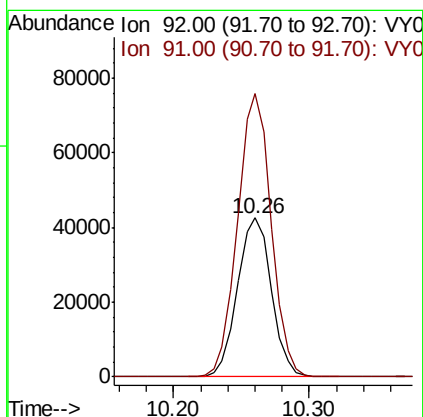
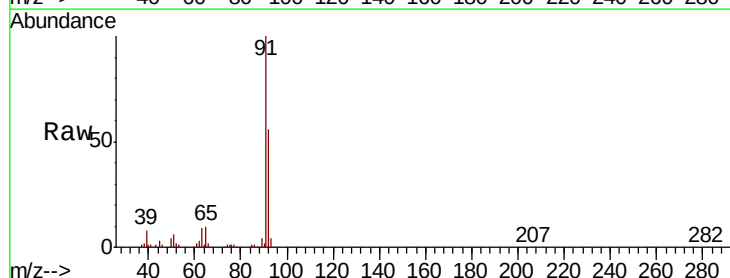
Instrument :  
MSVOA\_Y  
ClientSampled :

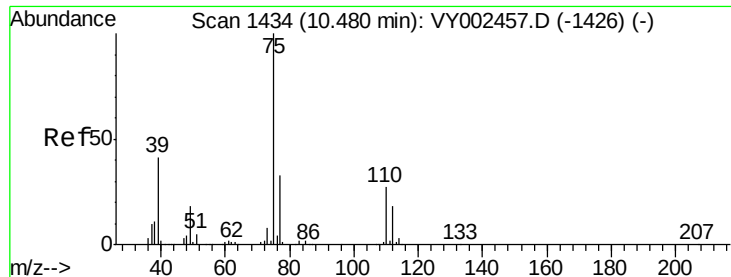
Tot Ion: 43 Resp: 96156  
Ion Ratio Lower Upper  
43 100  
58 42.4 33.2 49.8



#52  
Toluene  
Concen: 9.874 ug/l  
RT: 10.26 min Scan# 1398  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 92 Resp: 73939  
Ion Ratio Lower Upper  
92 100  
91 176.3 140.2 210.2





#53

t-1,3-Dichloropropene

Concen: 9.814 ug/l

RT: 10.48 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

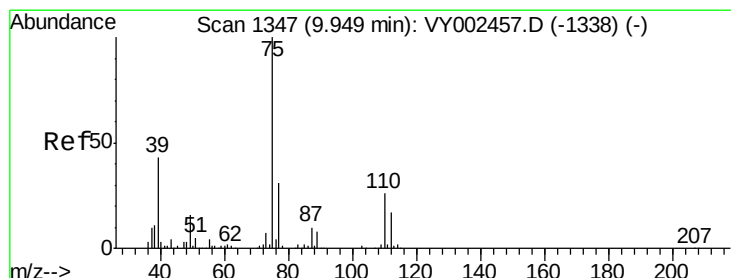
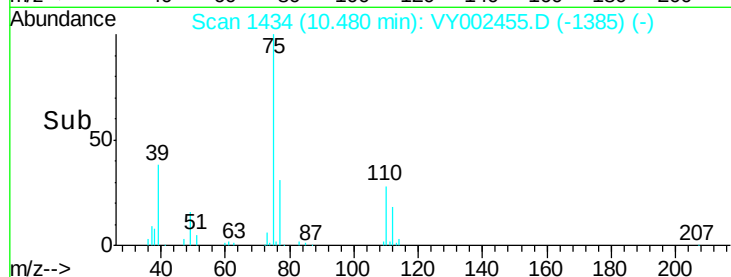
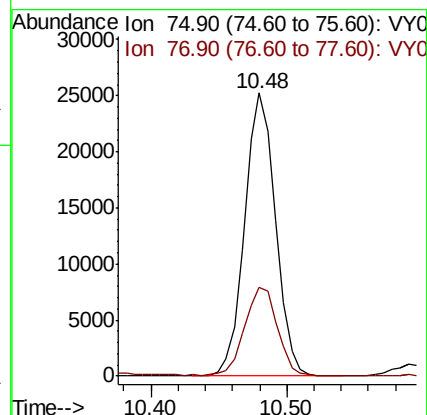
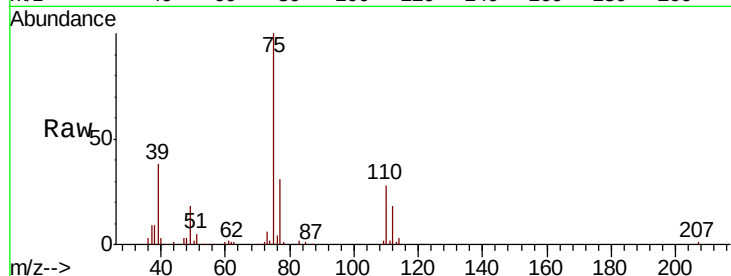
ClientSampled :

Tot Ion: 75 Resp: 40012

Ion Ratio Lower Upper

75 100

77 31.2 26.4 39.6



#54

cis-1,3-Dichloropropene

Concen: 9.903 ug/l

RT: 9.95 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

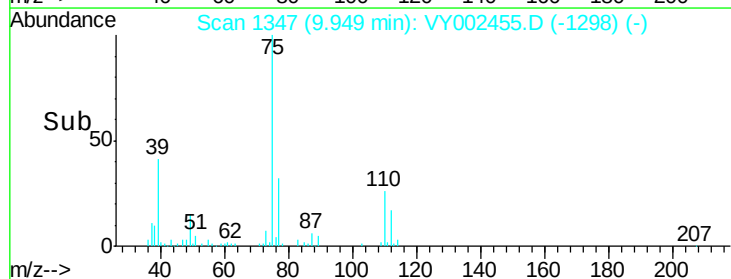
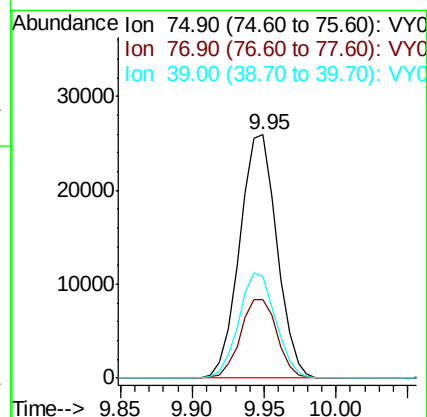
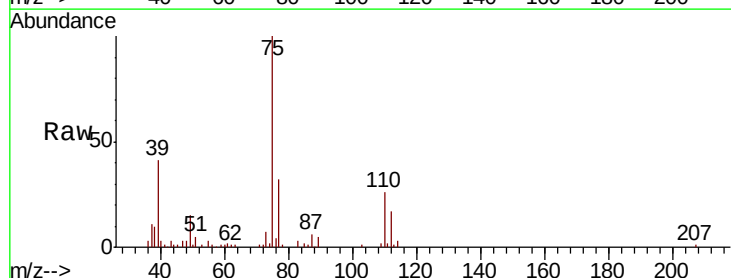
Tgt Ion: 75 Resp: 46579

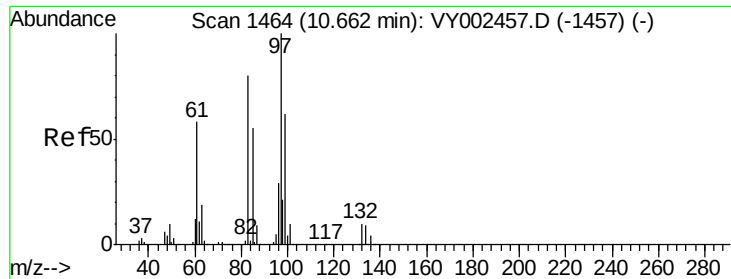
Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8

39 41.5 34.2 51.2

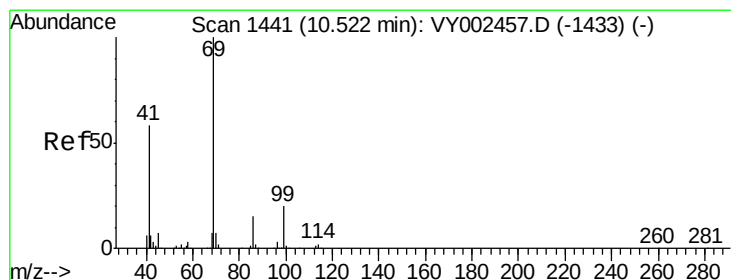
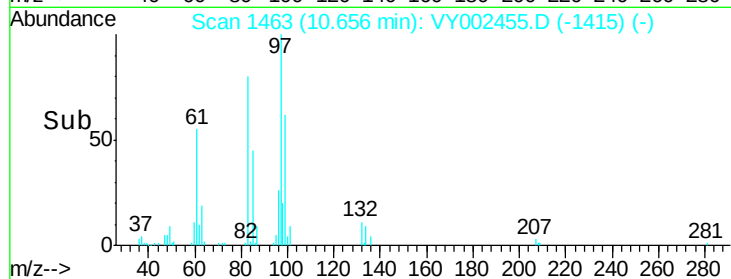
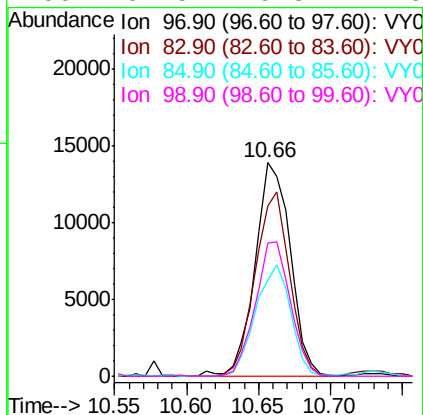
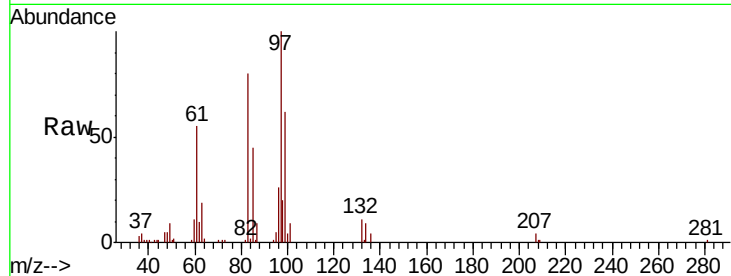




#55  
 1,1,2-Trichloroethane  
 Concen: 10.159 ug/l  
 RT: 10.66 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

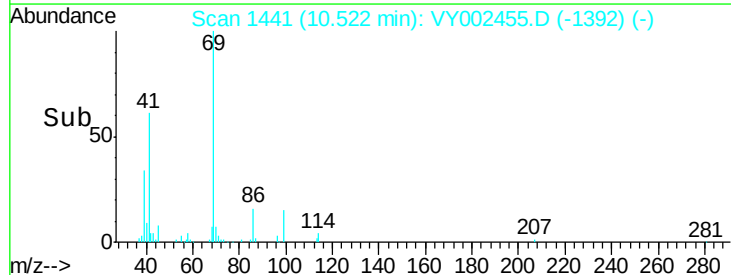
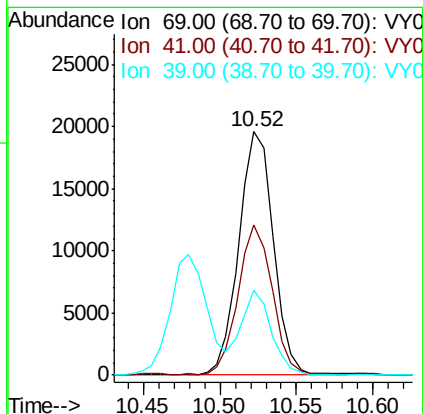
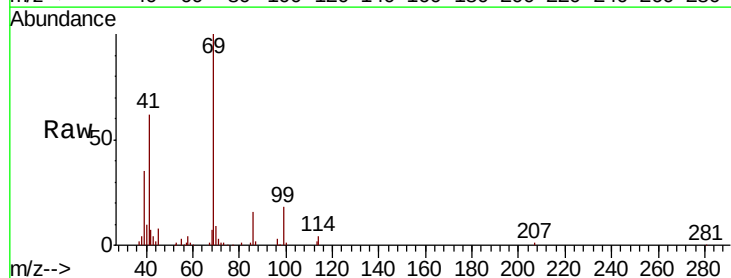
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion: 97 Resp: 23529  
 Ion Ratio Lower Upper  
 97 100  
 83 79.8 63.8 95.8  
 85 44.8 43.9 65.9  
 99 62.5 49.8 74.6

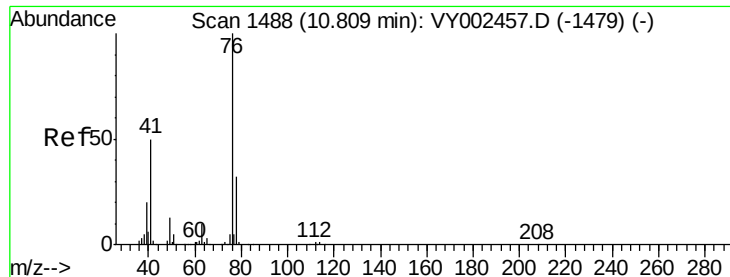


#56  
 Ethyl methacrylate  
 Concen: 9.842 ug/l  
 RT: 10.52 min Scan# 1441  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Tgt Ion: 69 Resp: 30819  
 Ion Ratio Lower Upper  
 69 100  
 41 61.2 47.5 71.3  
 39 30.7 25.7 38.5







#57

1,3-Dichloropropane

Concen: 10.105 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

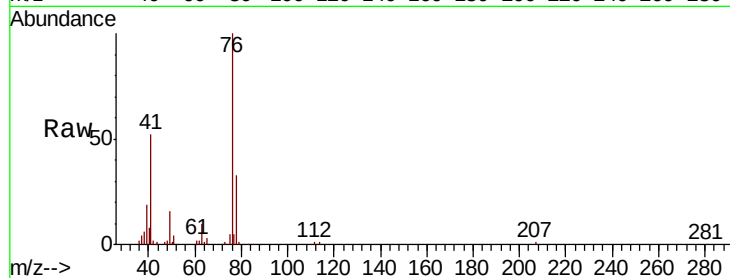
ClientSampleId :

Tot Ion: 76 Resp: 39485

Ion Ratio Lower Upper

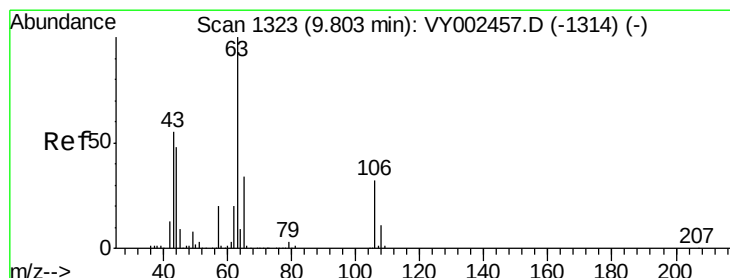
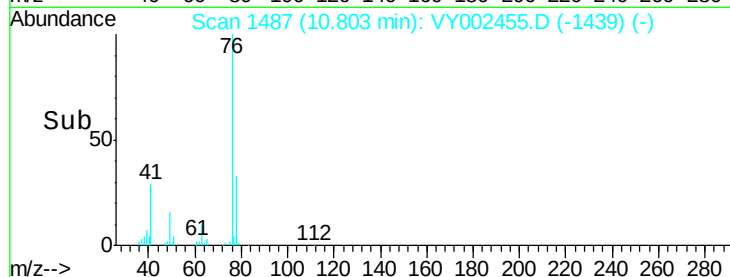
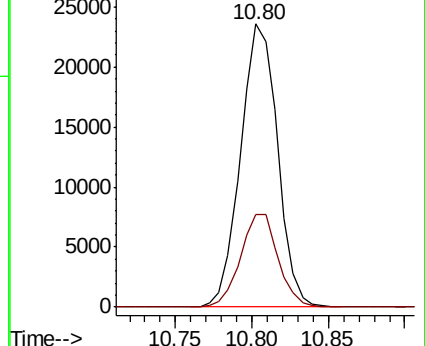
76 100

78 33.2 26.2 39.4



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 49.427 ug/l

RT: 9.80 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VY002455.D

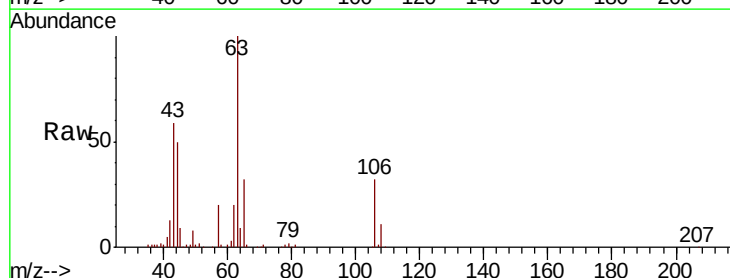
Acq: 23 Apr 2020 11:43

Tgt Ion: 63 Resp: 75600

Ion Ratio Lower Upper

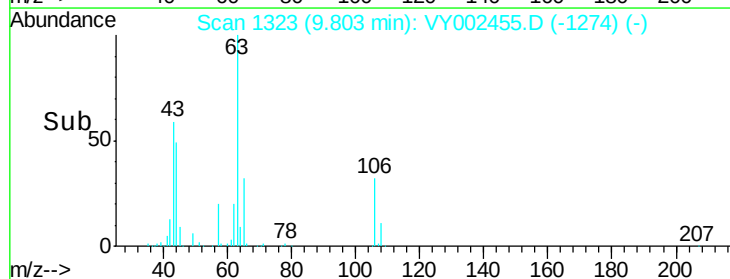
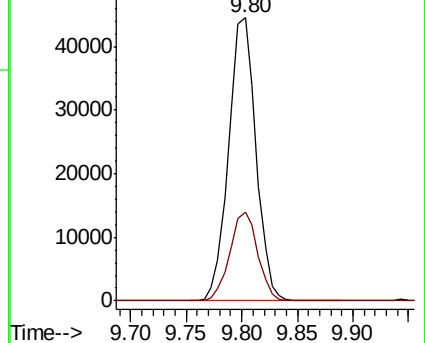
63 100

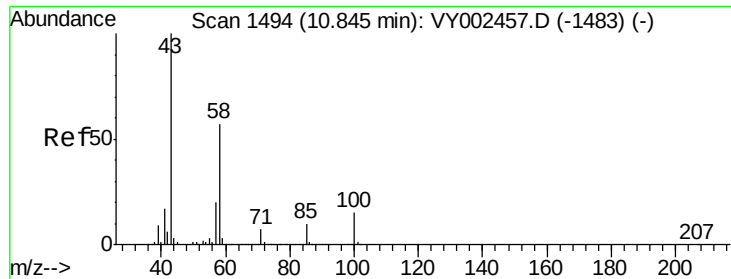
106 32.1 26.0 39.0



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

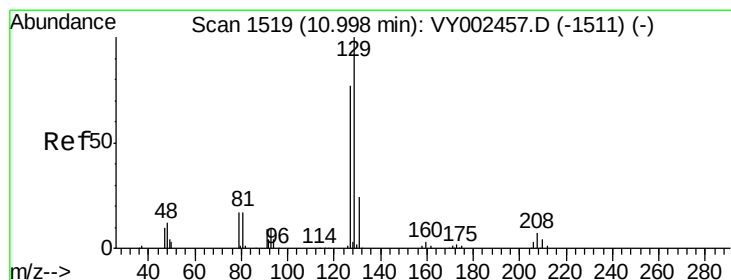
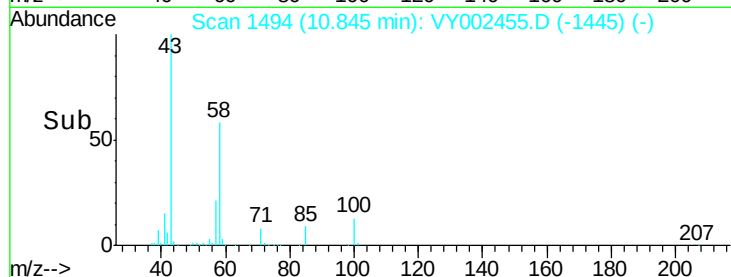
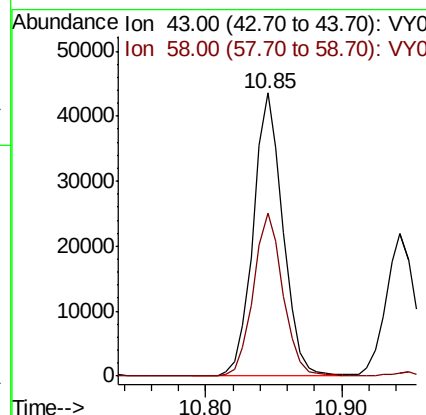
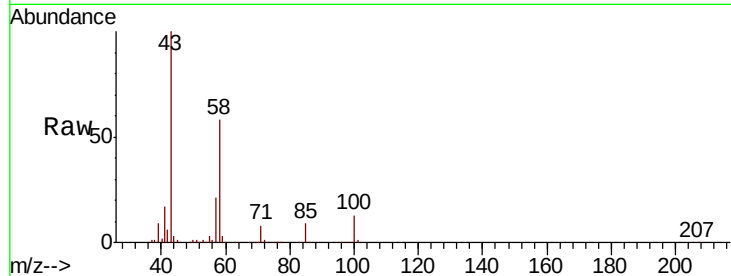




#59  
2-Hexanone  
Concen: 49.868 ug/l  
RT: 10.85 min Scan# 1494  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

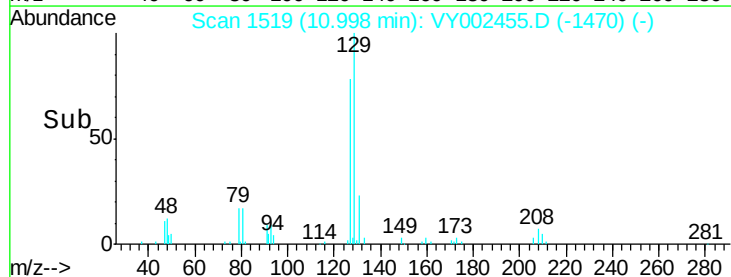
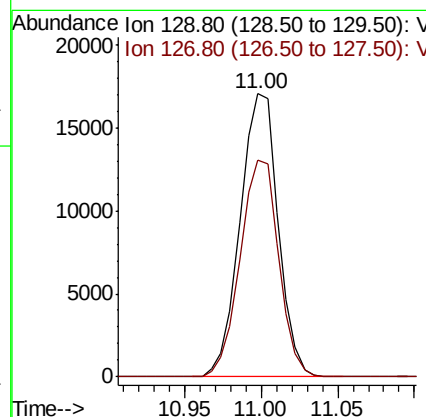
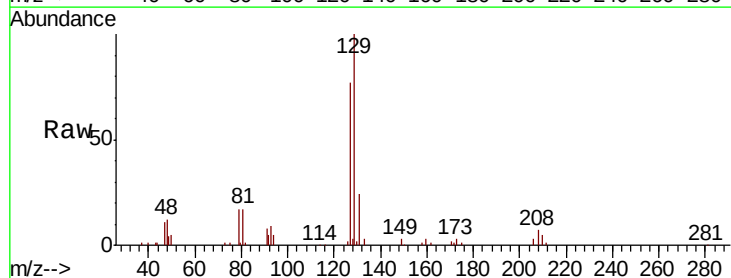
Instrument :  
MSVOA\_Y  
ClientSampleId :

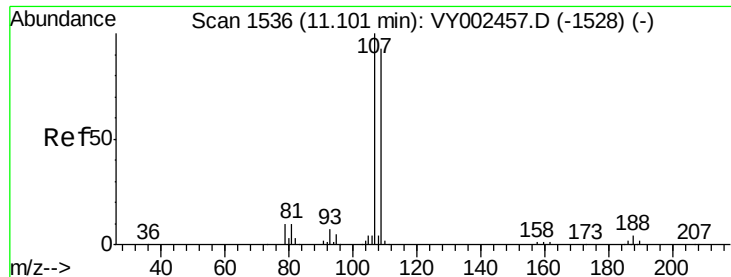
Tot Ion: 43 Resp: 66589  
Ion Ratio Lower Upper  
43 100  
58 57.6 28.8 86.4



#60  
Dibromochloromethane  
Concen: 9.752 ug/l  
RT: 11.00 min Scan# 1519  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 129 Resp: 29432  
Ion Ratio Lower Upper  
129 100  
127 77.6 38.3 114.9

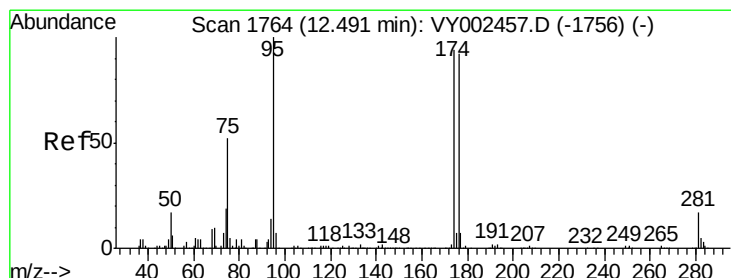
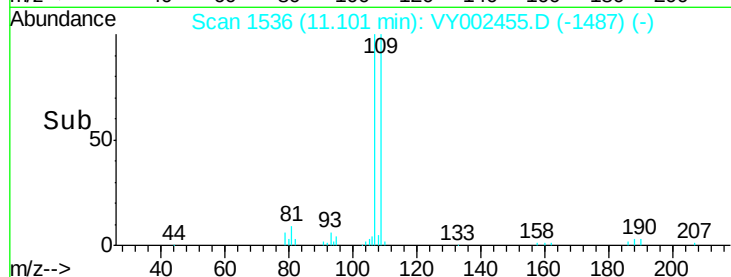
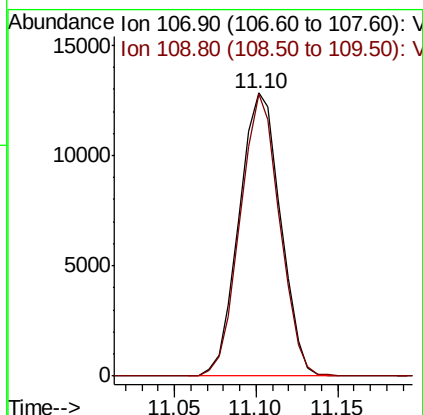
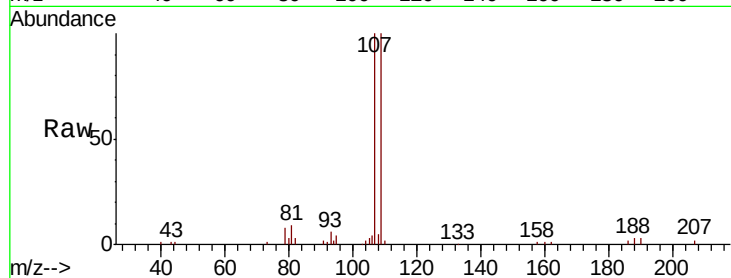




#61  
 1,2-Dibromoethane  
 Concen: 9.914 ug/l  
 RT: 11.10 min Scan# 1536  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

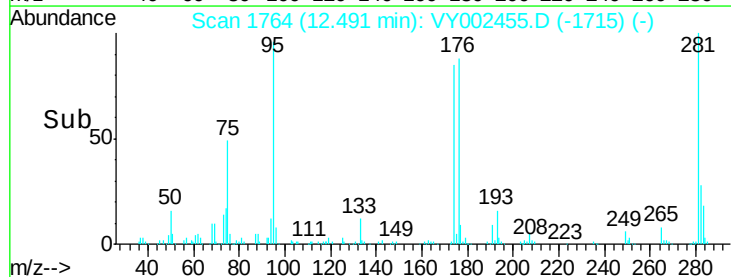
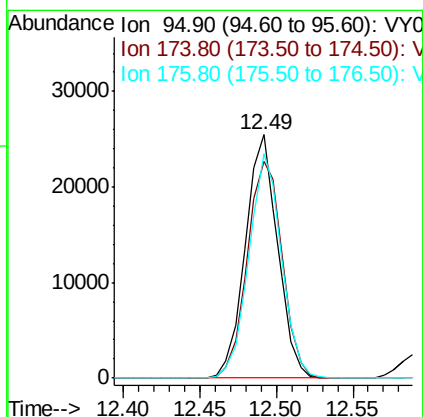
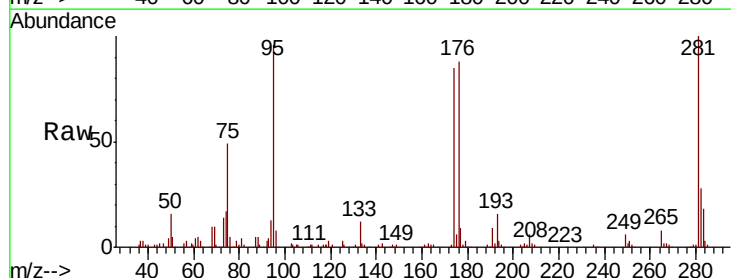
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

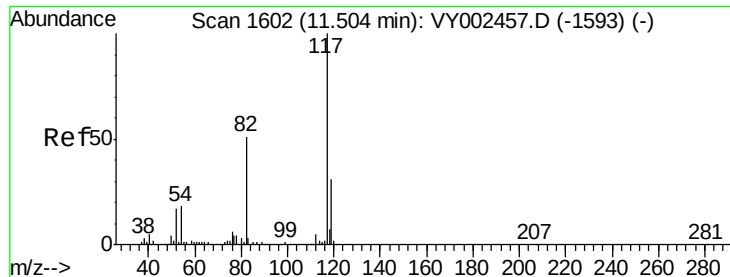
Tot Ion:107 Resp: 22718  
 Ion Ratio Lower Upper  
 107 100  
 109 94.8 74.9 112.3



#62  
 4-Bromofluorobenzene  
 Concen: 10.399 ug/l  
 RT: 12.49 min Scan# 1764  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

Tgt Ion: 95 Resp: 37467  
 Ion Ratio Lower Upper  
 95 100  
 174 96.1 0.0 193.0  
 176 92.6 0.0 190.4

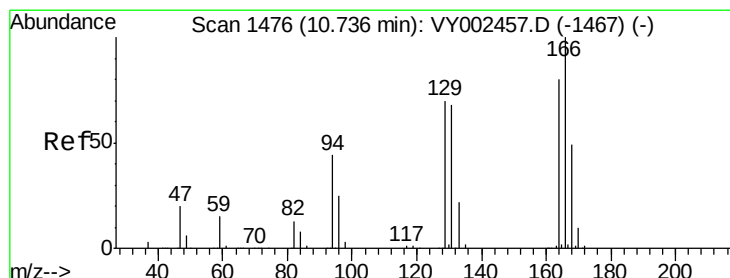
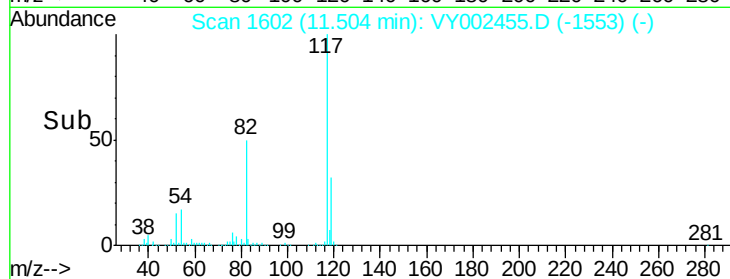
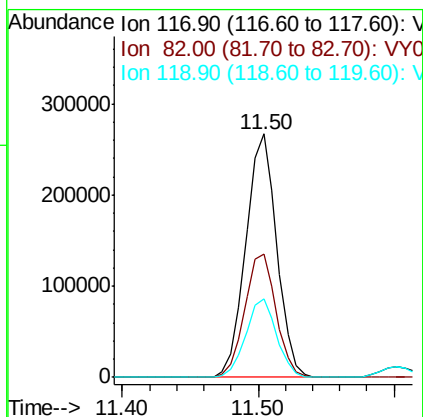
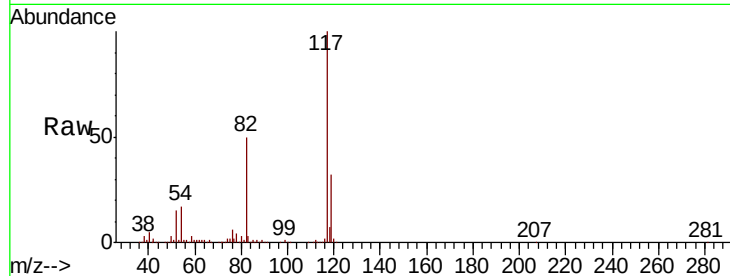




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

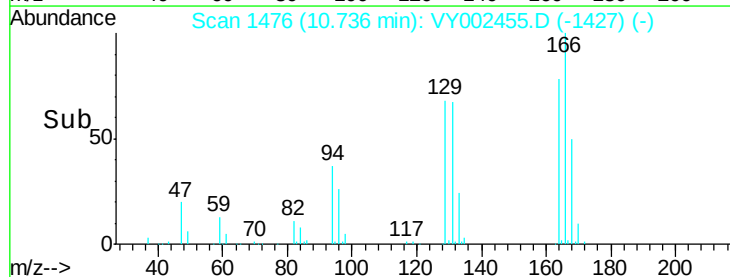
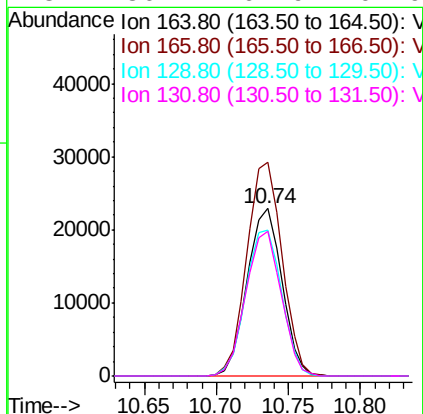
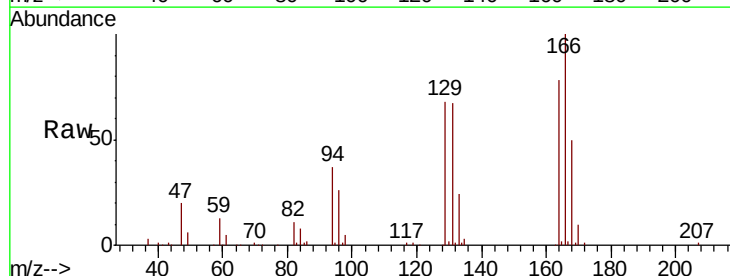
Instrument :  
MSVOA\_Y  
ClientSampleId :

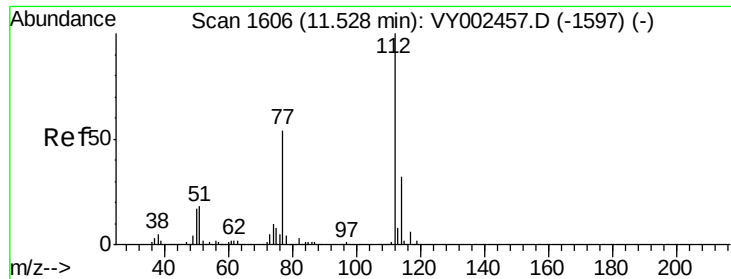
Tot Ion:117 Resp: 424344  
Ion Ratio Lower Upper  
117 100  
82 50.4 40.8 61.2  
119 32.2 25.2 37.8



#64  
Tetrachloroethene  
Concen: 9.826 ug/l  
RT: 10.74 min Scan# 1476  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion:164 Resp: 38344  
Ion Ratio Lower Upper  
164 100  
166 127.7 100.0 150.0  
129 87.4 69.8 104.8  
131 86.1 67.9 101.9

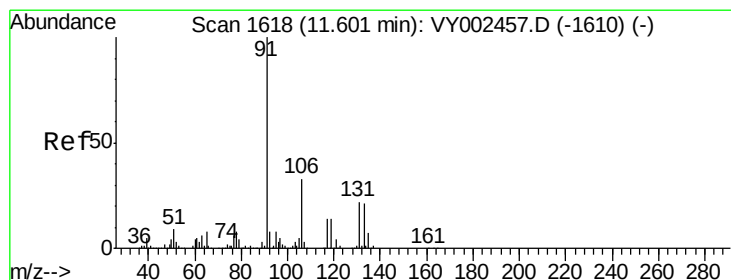
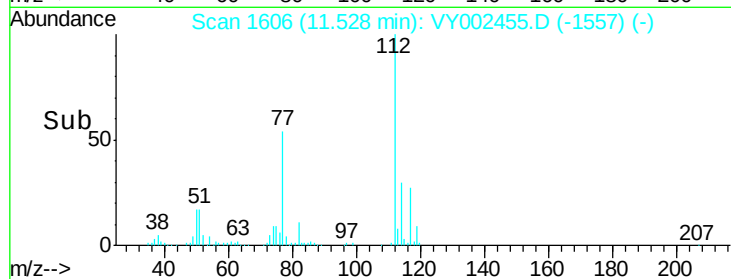
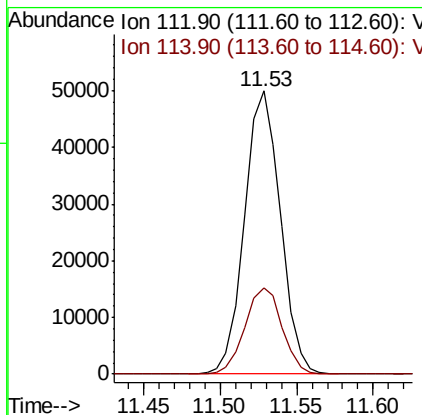
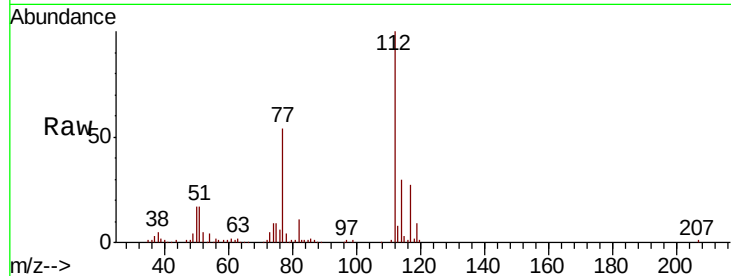




#65  
Chlorobenzene  
Concen: 9.951 ug/l  
RT: 11.53 min Scan# 1606  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

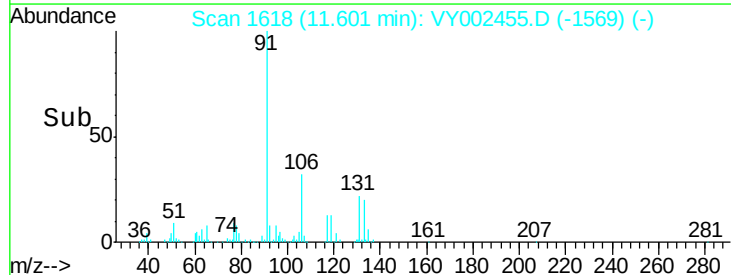
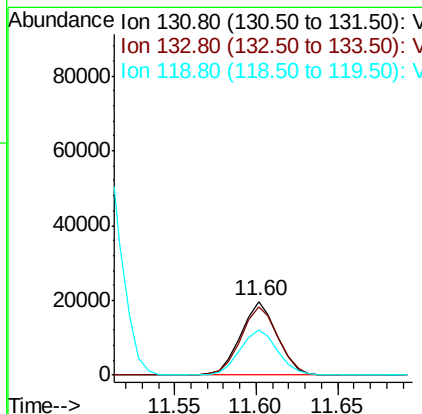
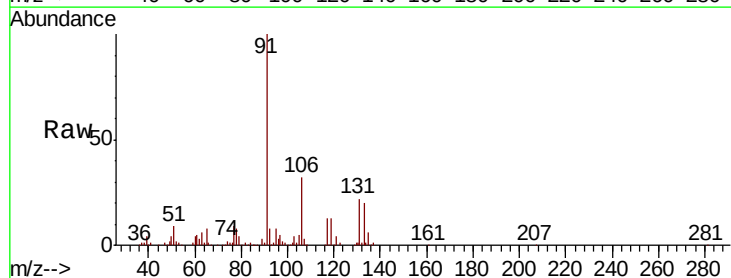
Instrument :  
MSVOA\_Y  
ClientSampled :

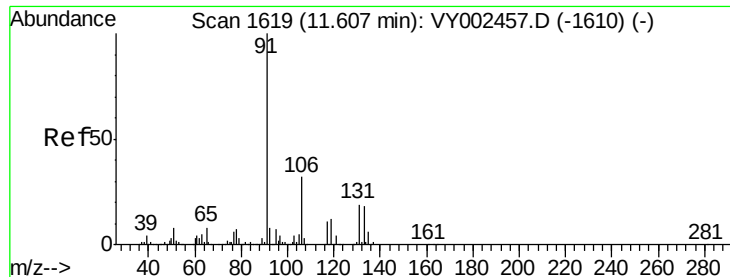
Tot Ion:112 Resp: 81361  
Ion Ratio Lower Upper  
112 100  
114 30.5 25.7 38.5



#66  
1,1,1,2-Tetrachloroethane  
Concen: 10.038 ug/l  
RT: 11.60 min Scan# 1618  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion:131 Resp: 30618  
Ion Ratio Lower Upper  
131 100  
133 96.2 47.8 143.4  
119 64.1 31.1 93.3

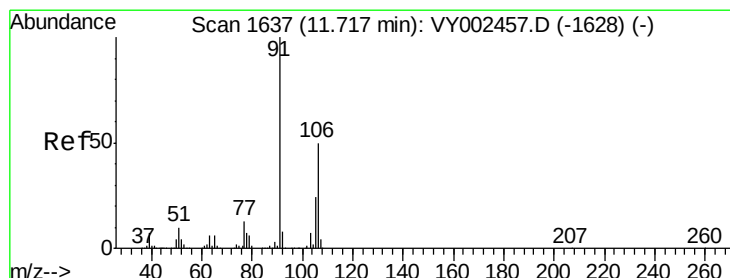
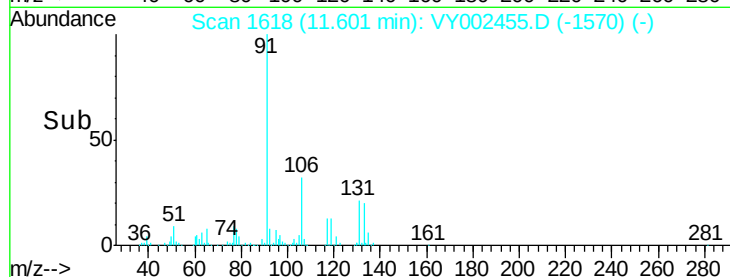
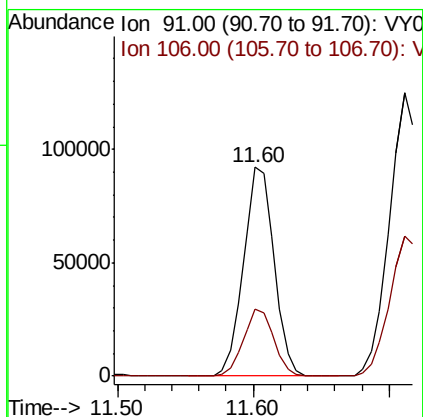
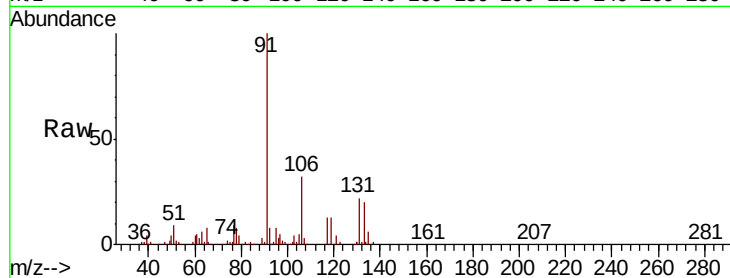




#67  
Ethyl Benzene  
Concen: 9.975 ug/l  
RT: 11.60 min Scan# 1618  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

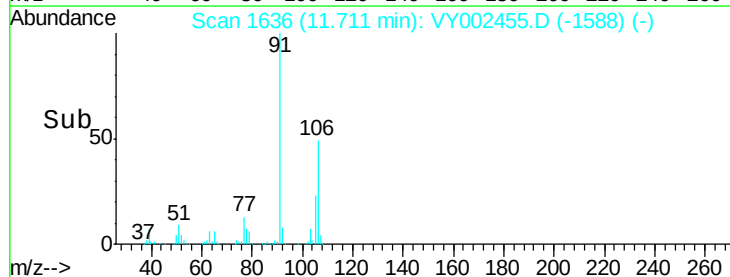
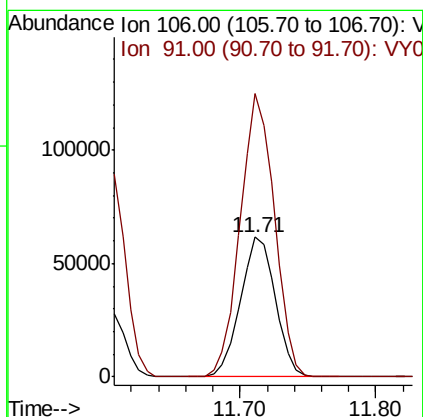
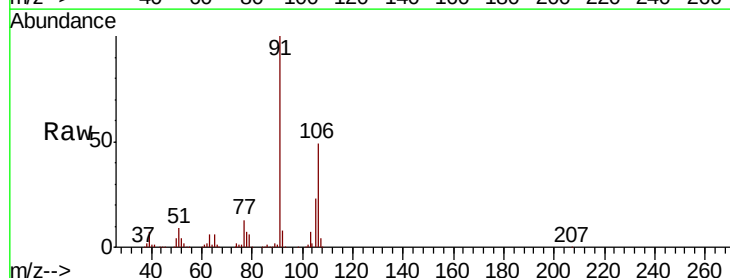
Instrument :  
MSVOA\_Y  
ClientSampleId :

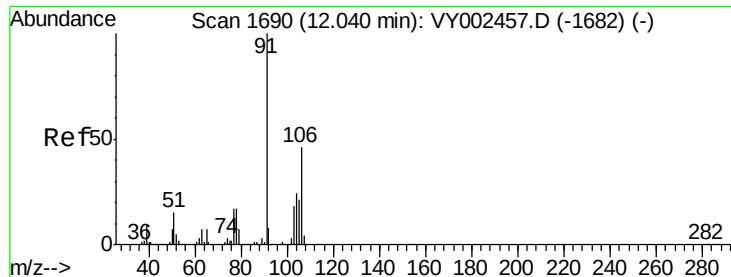
Tot Ion: 91 Resp: 144688  
Ion Ratio Lower Upper  
91 100  
106 32.4 25.8 38.6



#68  
m/p-Xylenes  
Concen: 19.791 ug/l  
RT: 11.71 min Scan# 1636  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion:106 Resp: 110590  
Ion Ratio Lower Upper  
106 100  
91 198.8 159.8 239.6

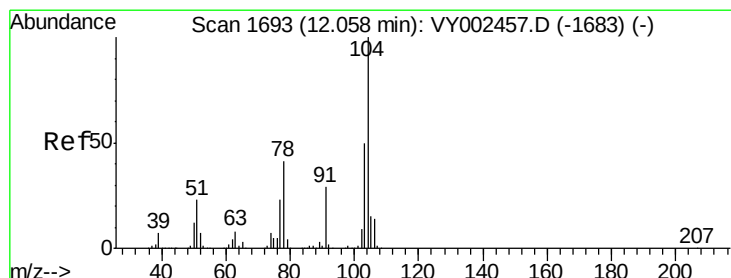
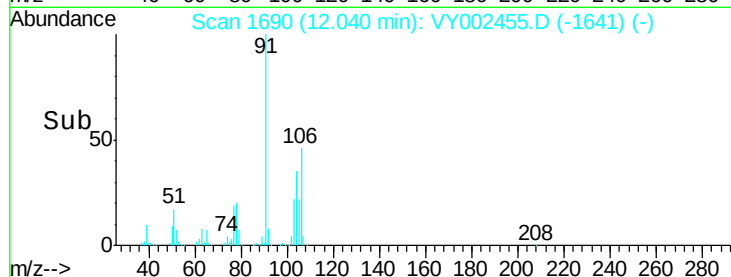
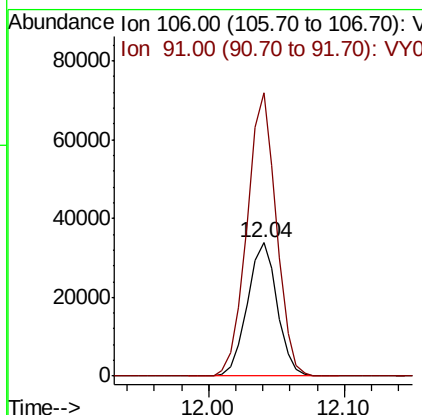
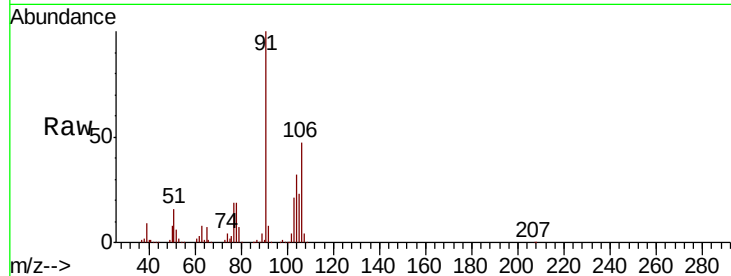




#69  
o-Xylene  
Concen: 9.934 ug/l  
RT: 12.04 min Scan# 1690  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

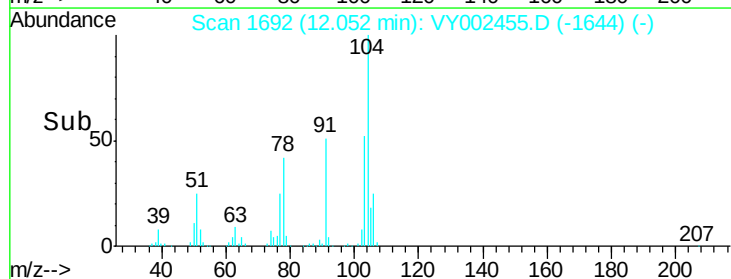
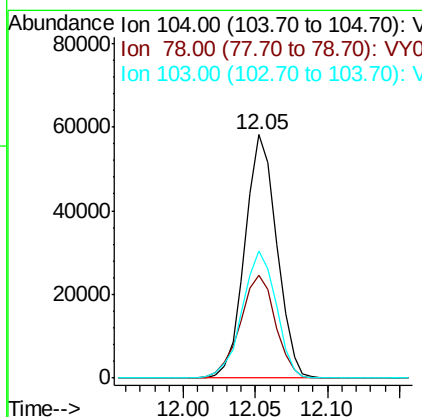
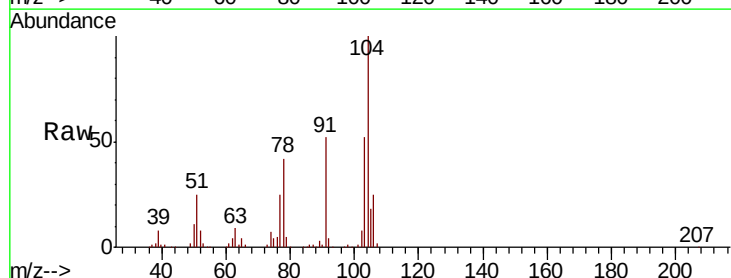
Instrument :  
MSVOA\_Y  
ClientSampled :

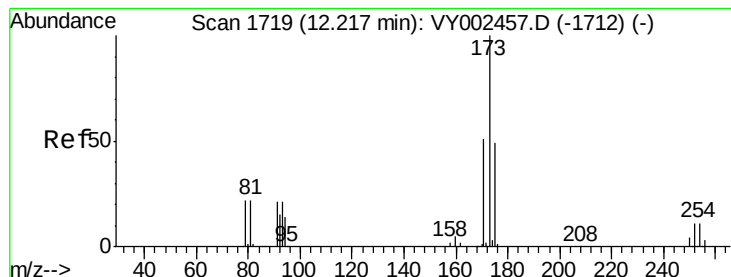
Tot Ion:106 Resp: 51991  
Ion Ratio Lower Upper  
106 100  
91 209.0 104.5 313.3



#70  
Styrene  
Concen: 9.795 ug/l  
RT: 12.05 min Scan# 1692  
Delta R.T. -0.01 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion:104 Resp: 88946  
Ion Ratio Lower Upper  
104 100  
78 46.9 38.0 57.0  
103 55.6 44.4 66.6





#71

Bromoform

Concen: 9.877 ug/l

RT: 12.22 min Scan# 1719

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

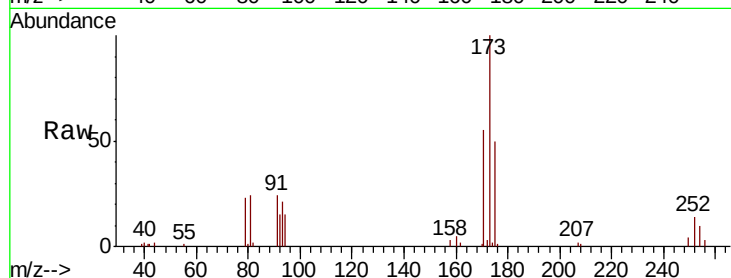
Tot Ion:173 Resp: 18862

Ion Ratio Lower Upper

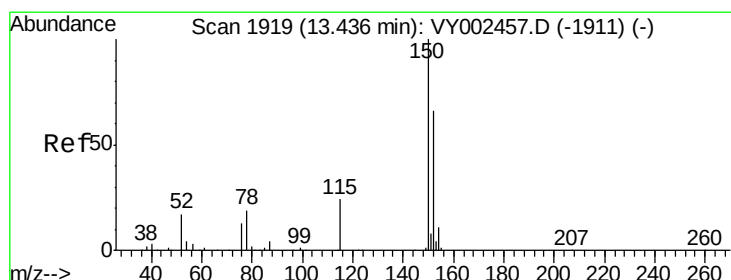
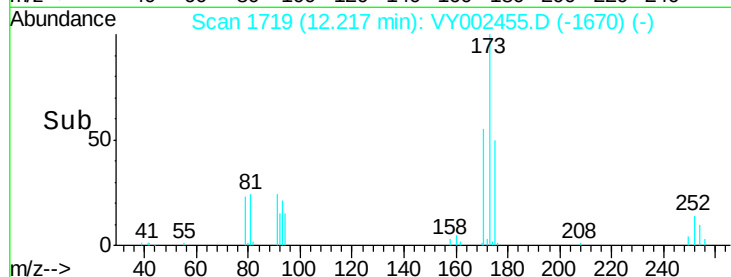
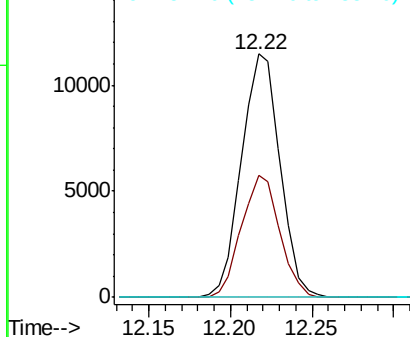
173 100

175 49.6 24.3 73.0

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

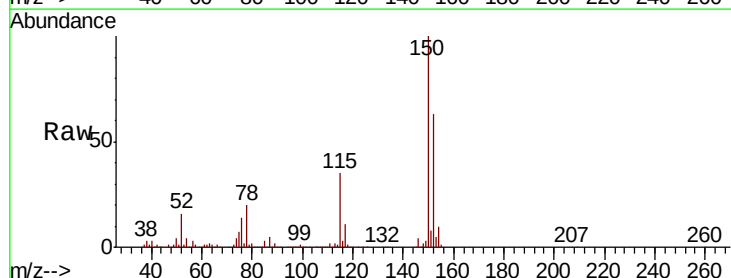
Tgt Ion:152 Resp: 224884

Ion Ratio Lower Upper

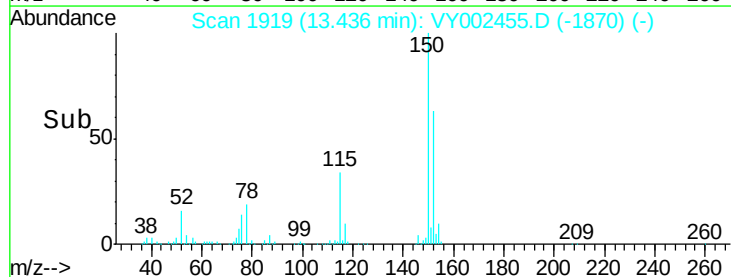
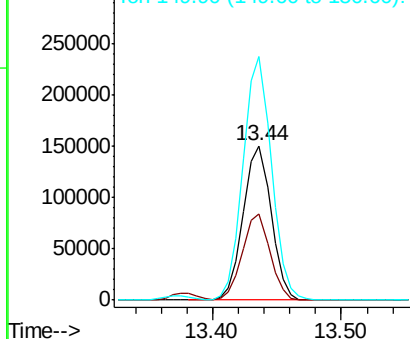
152 100

115 55.1 27.3 81.8

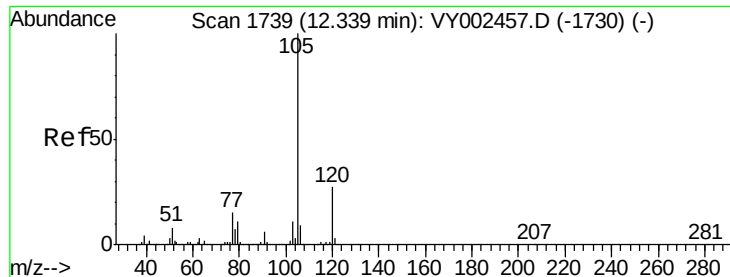
150 160.1 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V







#73

Isopropylbenzene

Concen: 9.921 ug/l

RT: 12.34 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

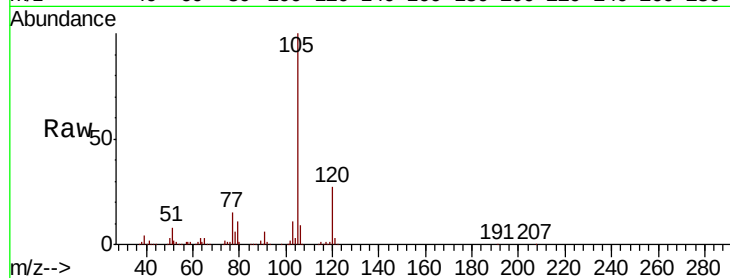
ClientSampled :

Tot Ion:105 Resp: 144617

Ion Ratio Lower Upper

105 100

120 27.3 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.34

100000

80000

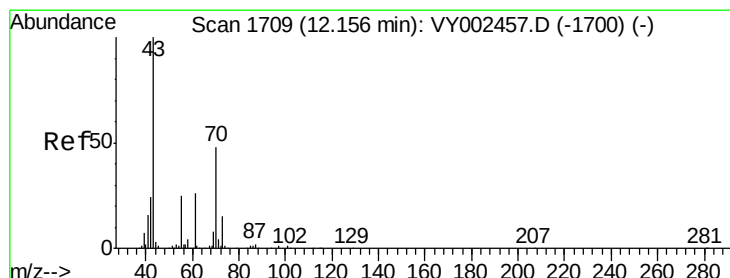
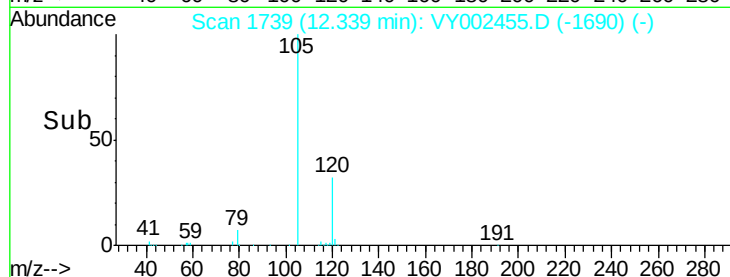
60000

40000

20000

0

Time--> 12.25 12.30 12.35 12.40



#74

N-ethyl acetate

Concen: 10.065 ug/l

RT: 12.15 min Scan# 1708

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Tgt Ion: 43 Resp: 34210

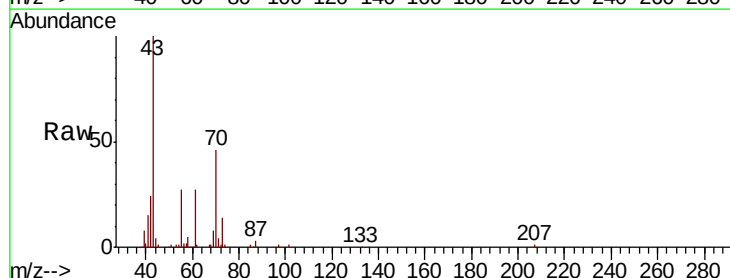
Ion Ratio Lower Upper

43 100

70 47.2 37.2 55.8

55 25.6 19.6 29.4

61 25.9 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

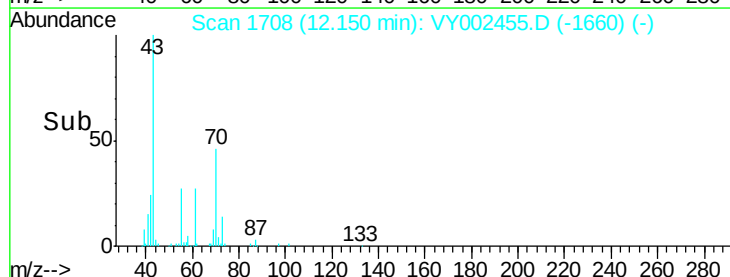
30000

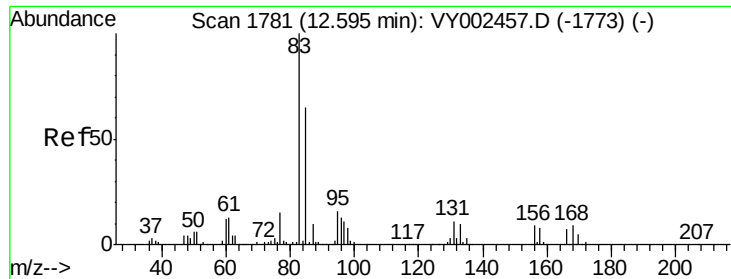
20000

10000

0

Time--> 12.10 12.20





#75

1,1,2,2-Tetrachloroethane

Concen: 10.203 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

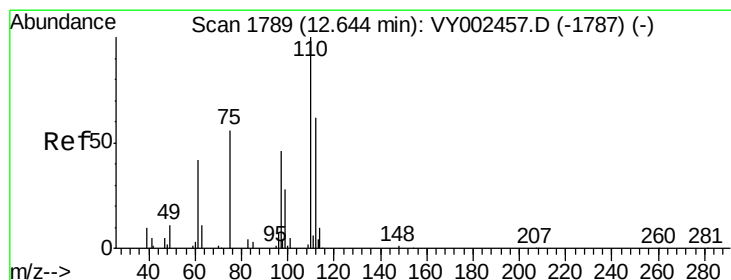
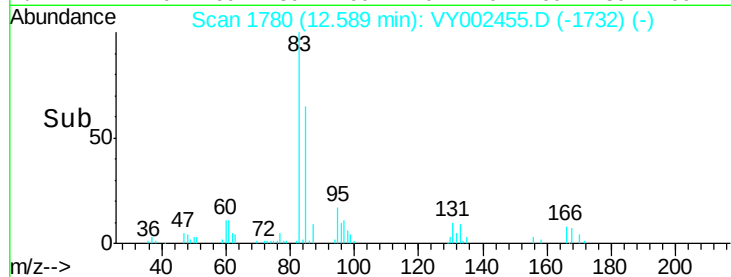
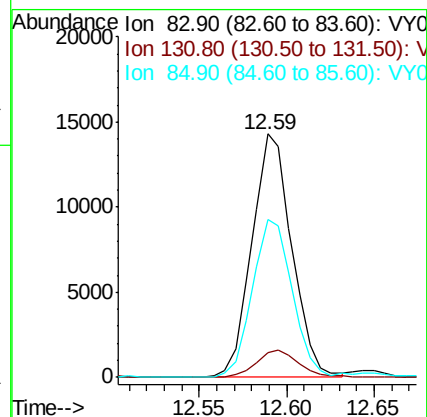
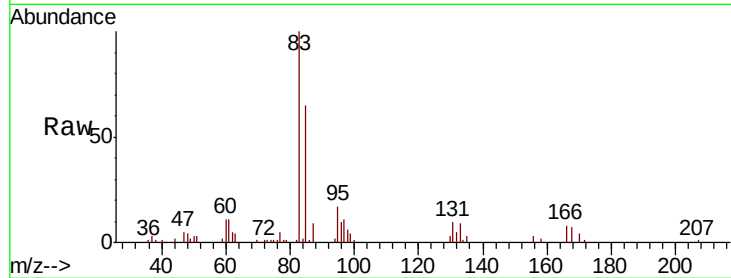
Tot Ion: 83 Resp: 22663

Ion Ratio Lower Upper

83 100

131 11.9 6.2 18.6

85 65.6 32.5 97.5



#76

1,2,3-Trichloropropane

Concen: 11.415 ug/l

RT: 12.64 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VY002455.D

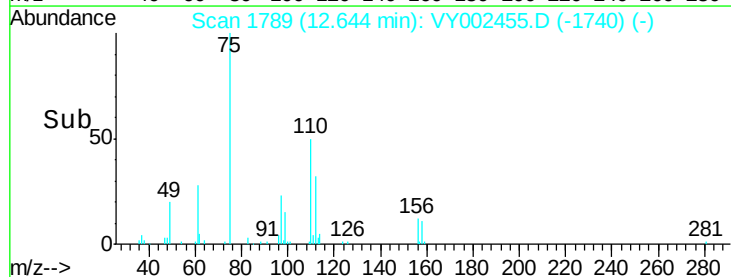
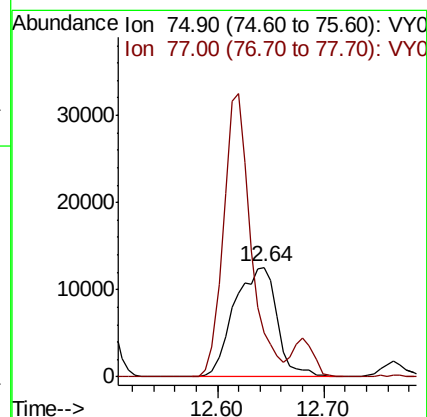
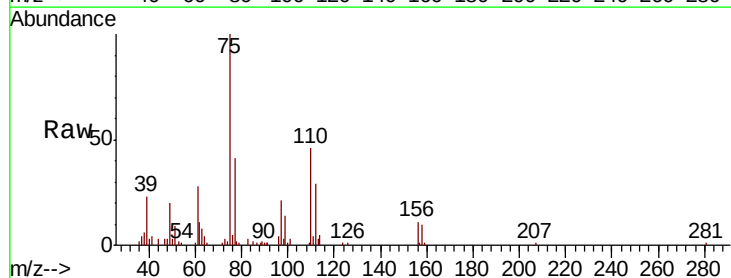
Acq: 23 Apr 2020 11:43

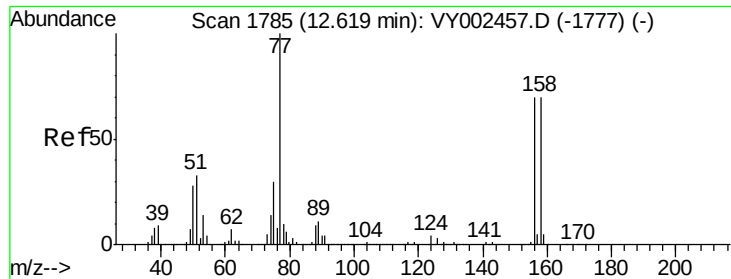
Tgt Ion: 75 Resp: 35443

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 9.964 ug/l

RT: 12.62 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampleId :

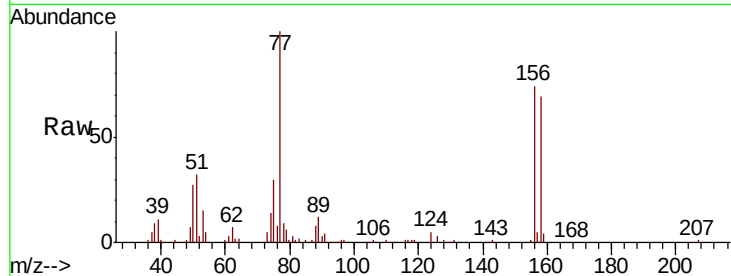
Tot Ion:156 Resp: 36448

Ion Ratio Lower Upper

156 100

77 160.6 78.5 235.7

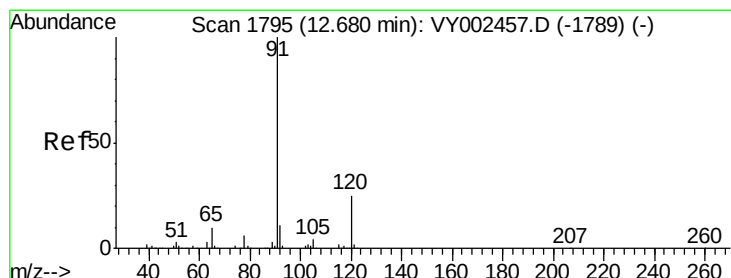
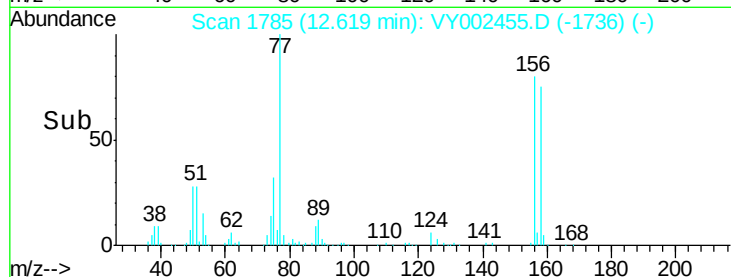
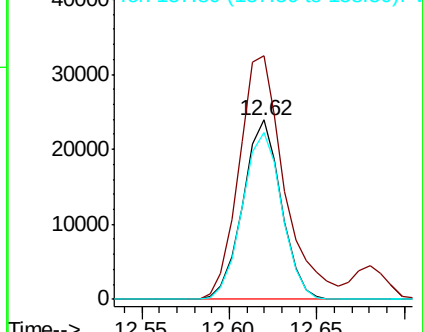
158 96.0 48.4 145.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 9.882 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VY002455.D

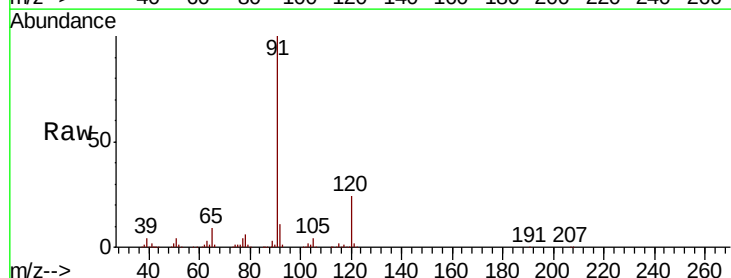
Acq: 23 Apr 2020 11:43

Tgt Ion: 91 Resp: 167690

Ion Ratio Lower Upper

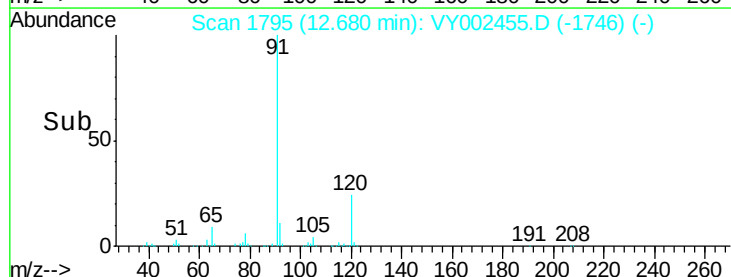
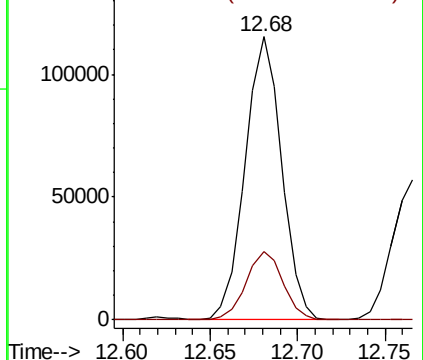
91 100

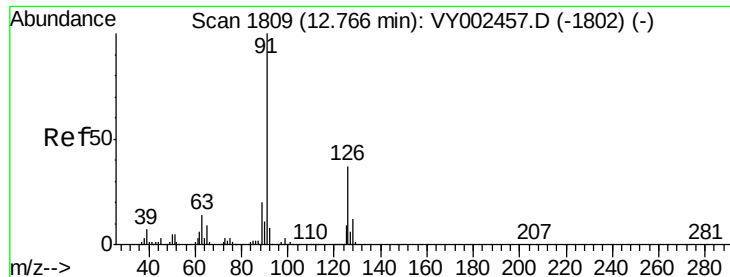
120 24.4 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 9.890 ug/l

RT: 12.77 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

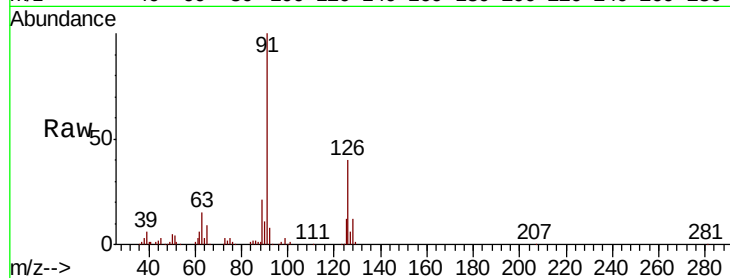
ClientSampleId :

Tot Ion: 91 Resp: 91574

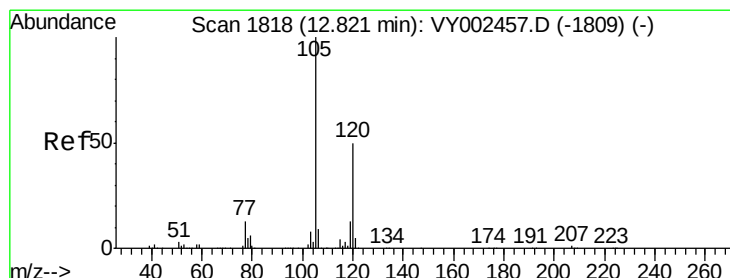
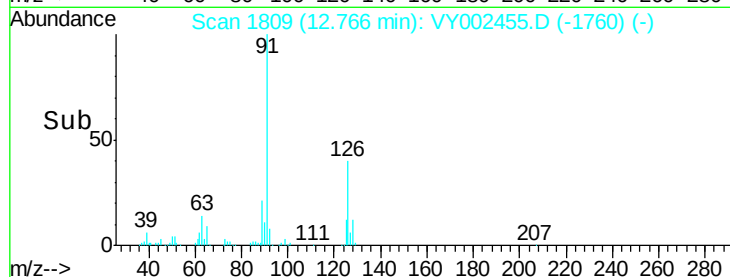
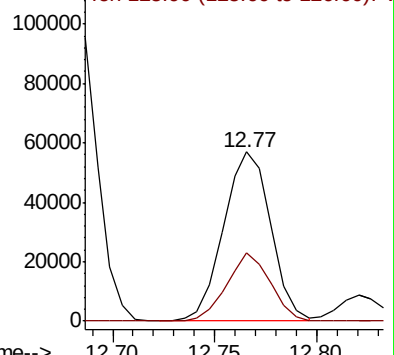
Ion Ratio Lower Upper

91 100

126 37.4 18.5 55.5



Abundance Ion 91.00 (90.70 to 91.70): VY002457.D (-1802) (-)



#80

1,3,5-Trimethylbenzene

Concen: 9.851 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VY002455.D

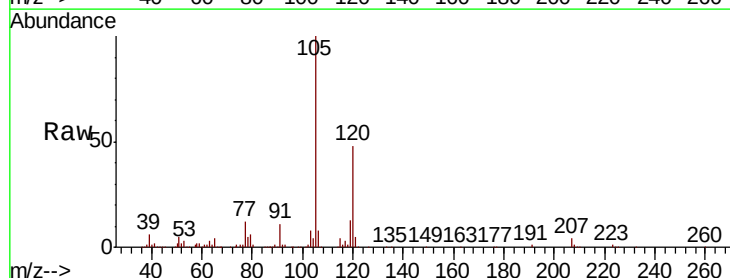
Acq: 23 Apr 2020 11:43

Tgt Ion:105 Resp: 122295

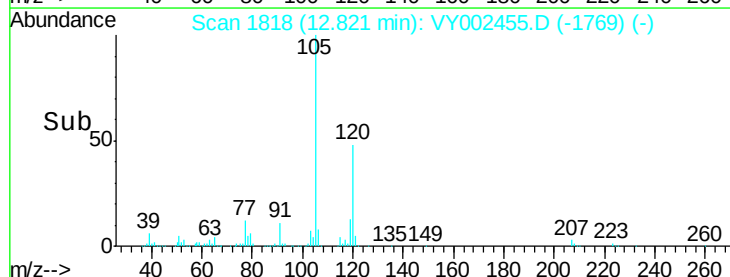
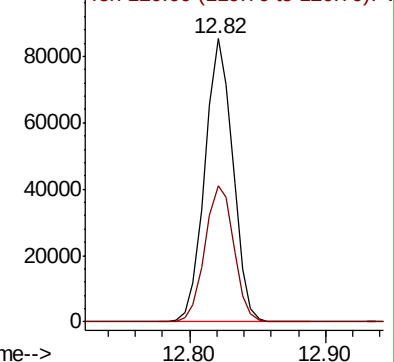
Ion Ratio Lower Upper

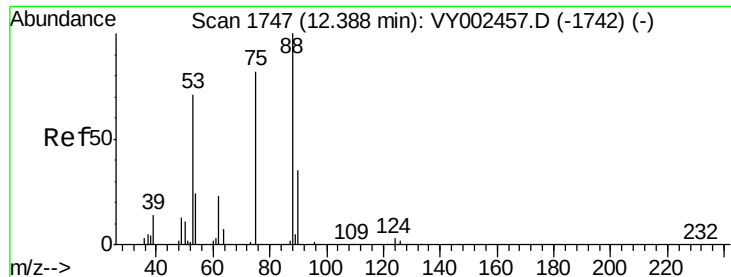
105 100

120 49.7 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VY002457.D (-1809) (-)

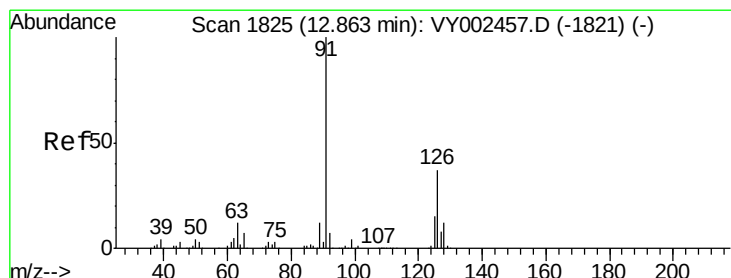
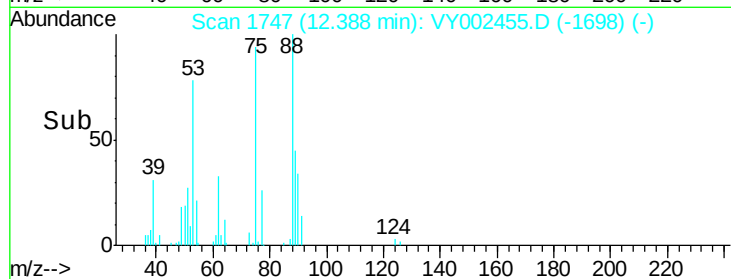
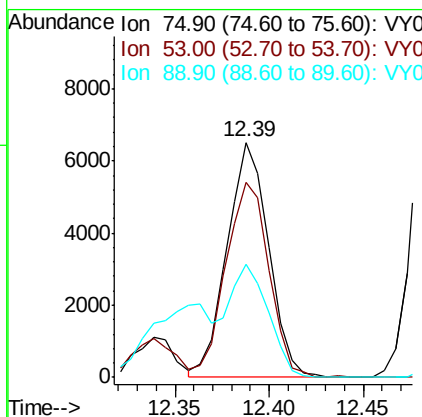
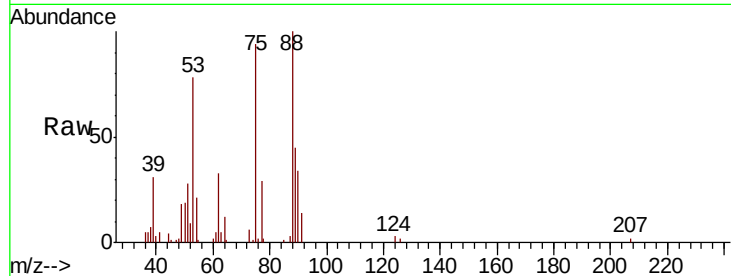




#81  
trans-1,4-Dichloro-2-butene  
Concen: 10.093 ug/l  
RT: 12.39 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

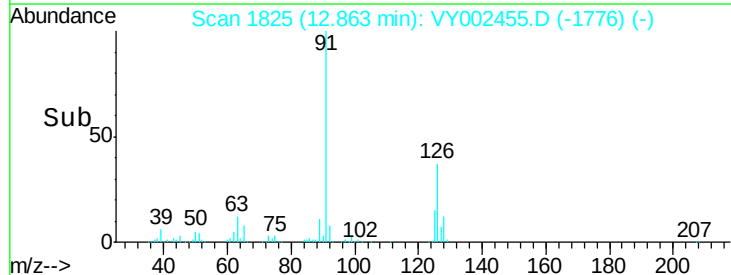
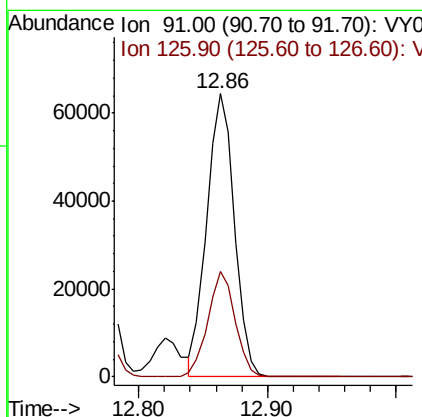
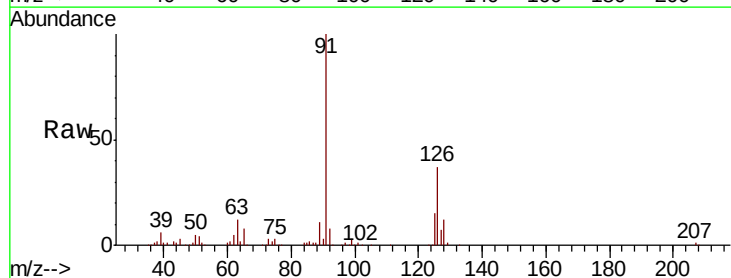
Instrument :  
MSVOA\_Y  
ClientSampleId :

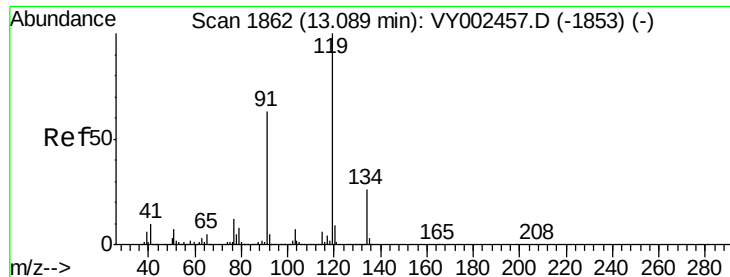
Tot Ion: 75 Resp: 9975  
Ion Ratio Lower Upper  
75 100  
53 85.8 70.0 105.0  
89 46.8 34.9 52.3



#82  
4-Chlorotoluene  
Concen: 9.920 ug/l  
RT: 12.86 min Scan# 1825  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion: 91 Resp: 96917  
Ion Ratio Lower Upper  
91 100  
126 36.9 18.5 55.5





#83

tert-Butylbenzene

Concen: 9.806 ug/l

RT: 13.08 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampled :

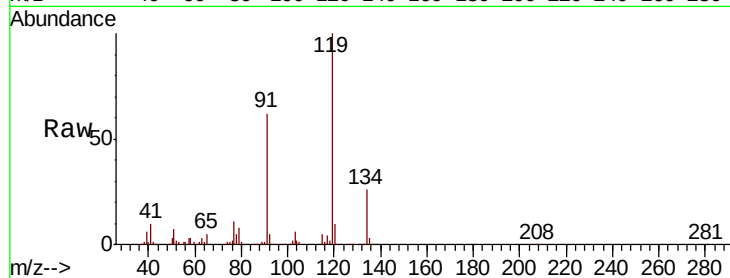
Tot Ion:119 Resp: 107163

Ion Ratio Lower Upper

119 100

91 61.1 30.8 92.3

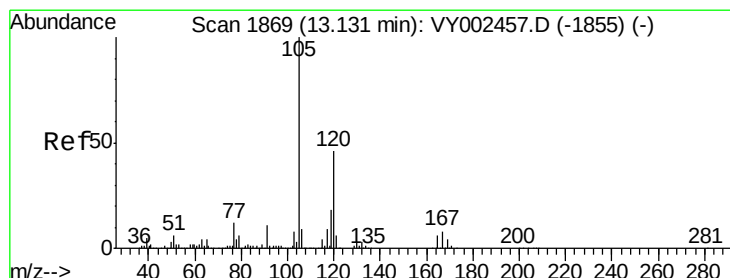
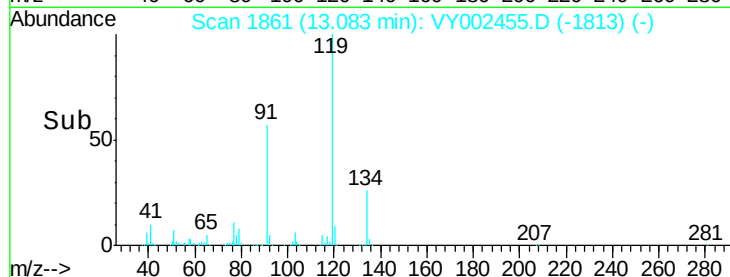
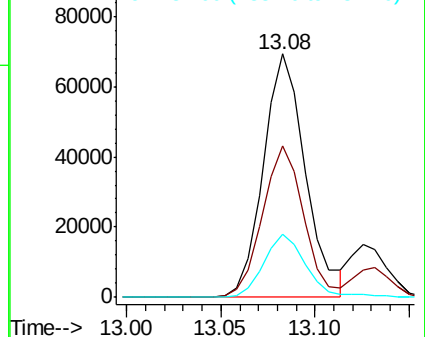
134 26.3 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 9.878 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VY002455.D

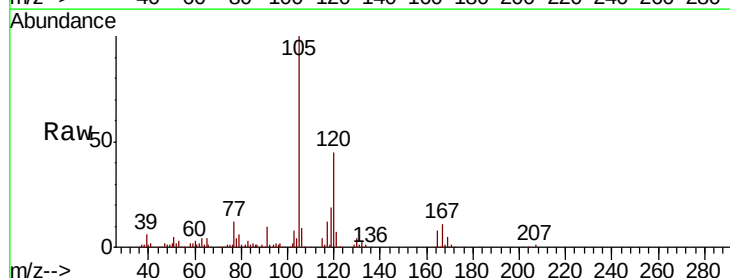
Acq: 23 Apr 2020 11:43

Tgt Ion:105 Resp: 122223

Ion Ratio Lower Upper

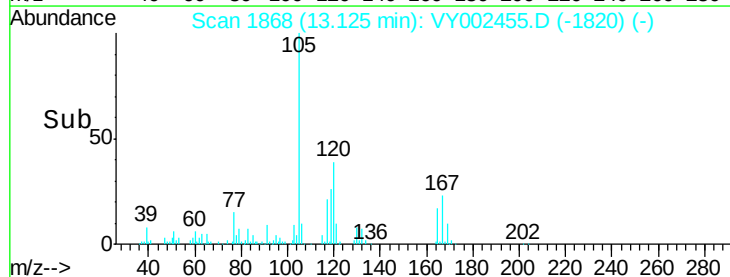
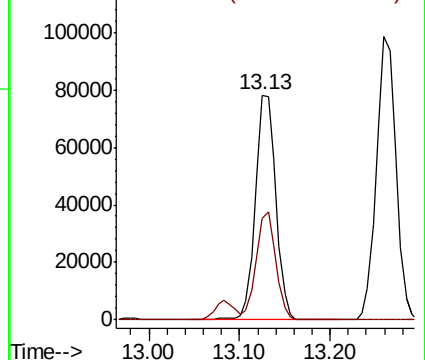
105 100

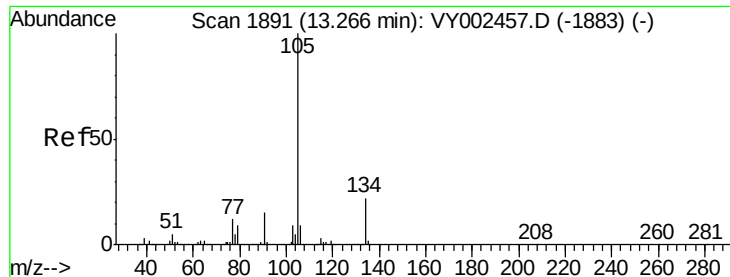
120 46.0 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 9.840 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

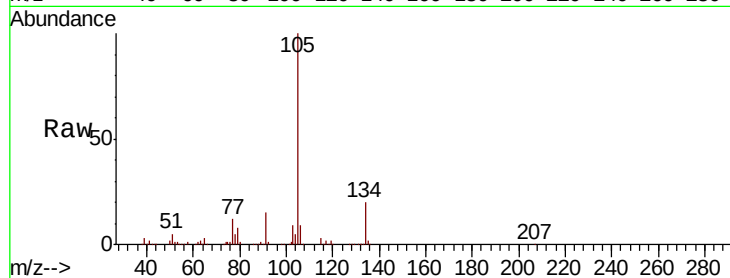
ClientSampled :

Tot Ion:105 Resp: 146833

Ion Ratio Lower Upper

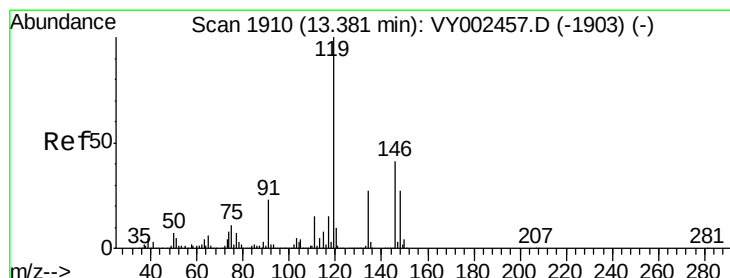
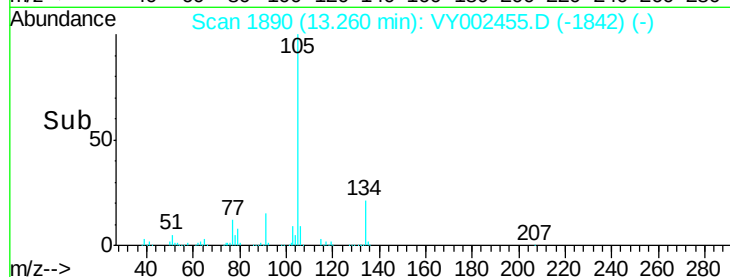
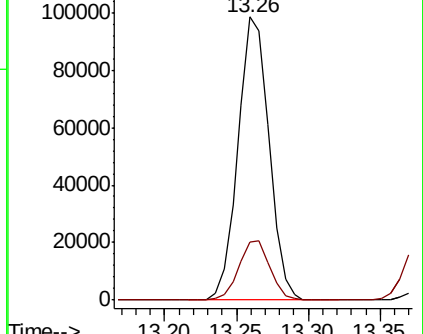
105 100

134 21.1 10.8 32.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 9.699 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.01 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

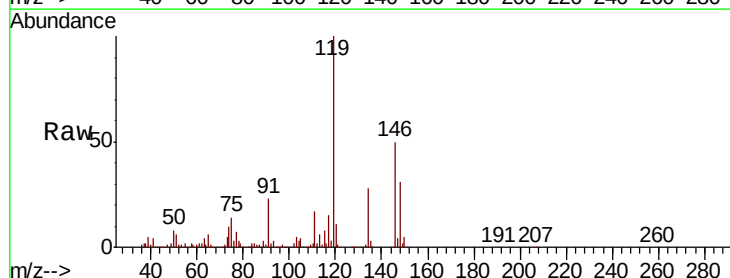
Tgt Ion:119 Resp: 136987

Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

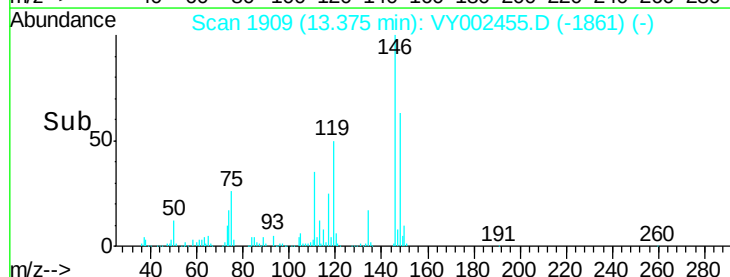
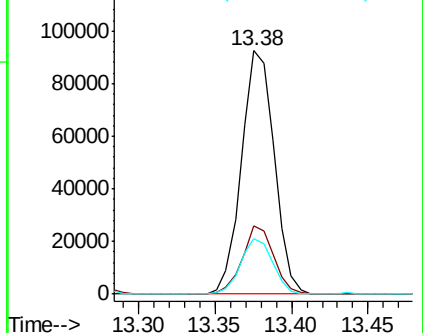
91 22.4 11.5 34.4

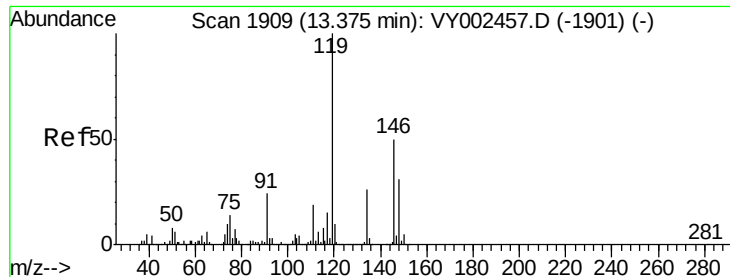


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#87

1,3-Dichlorobenzene

Concen: 9.959 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. 0.00 min

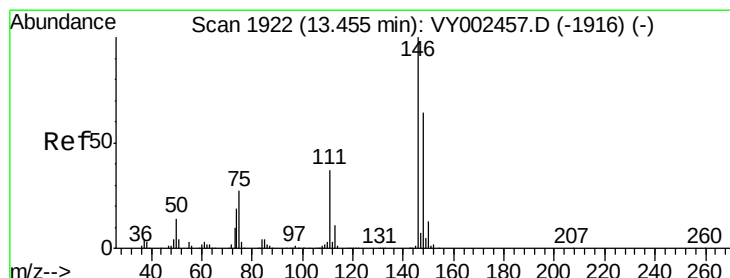
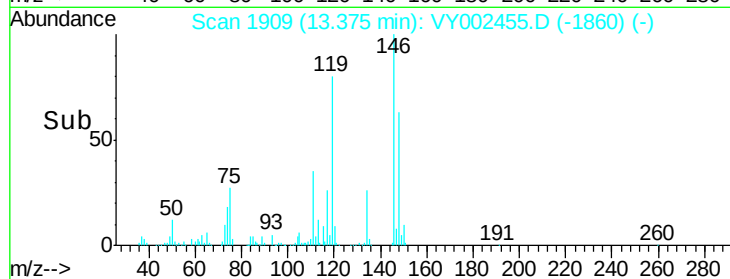
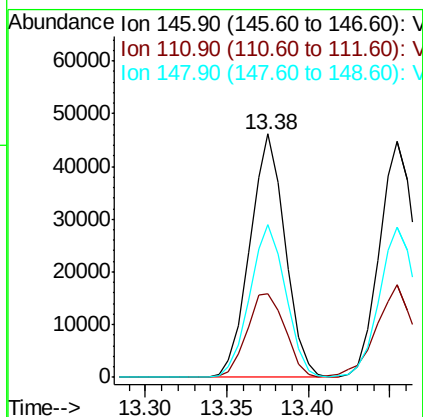
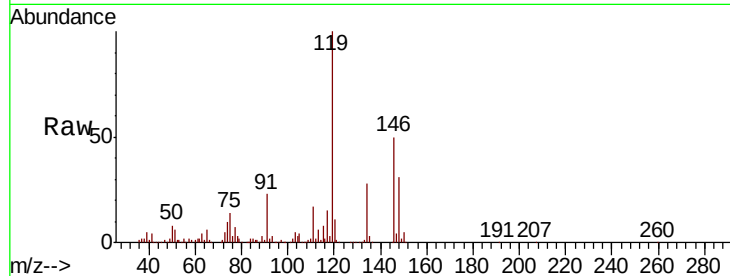
Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:146 Resp: 69556

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 37.2  | 18.8  | 56.3  |
| 148 | 63.5  | 32.0  | 96.0  |



#88

1,4-Dichlorobenzene

Concen: 9.914 ug/l

RT: 13.45 min Scan# 1922

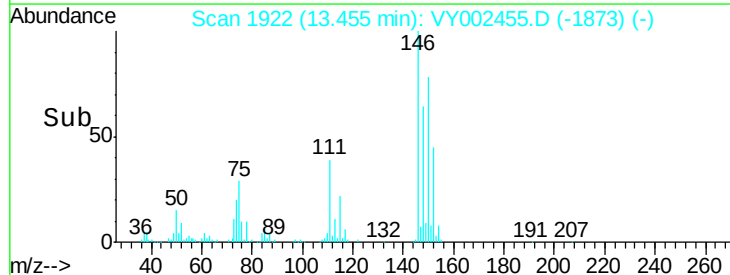
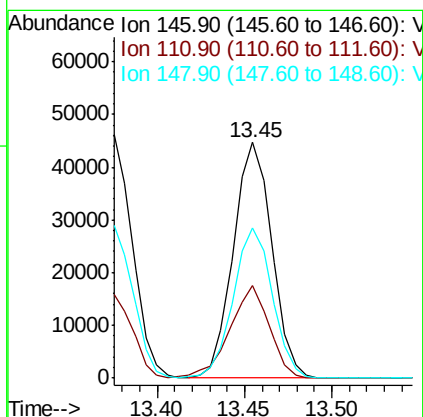
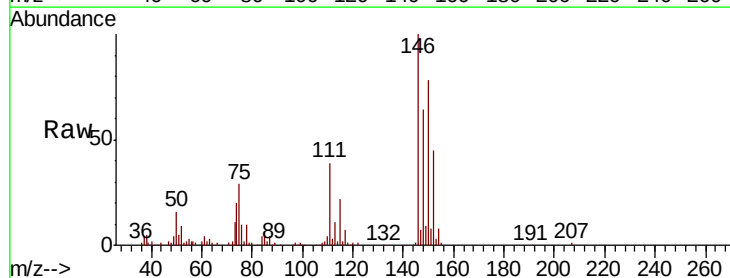
Delta R.T. 0.00 min

Lab File: VY002455.D

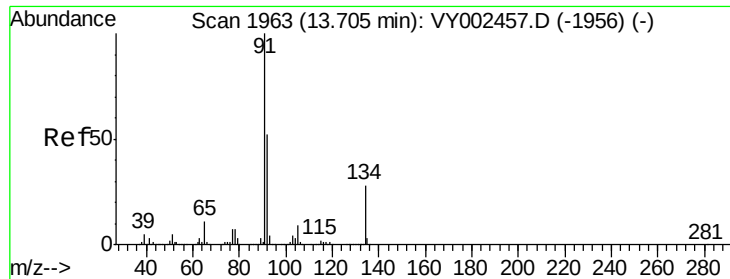
Acq: 23 Apr 2020 11:43

Tgt Ion:146 Resp: 68569

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 40.0  | 18.1  | 54.1  |
| 148 | 64.6  | 32.1  | 96.5  |







#89

n-Butylbenzene

Concen: 9.797 ug/l

RT: 13.70 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VY002455.D

Acq: 23 Apr 2020 11:43

Instrument :

MSVOA\_Y

ClientSampled :

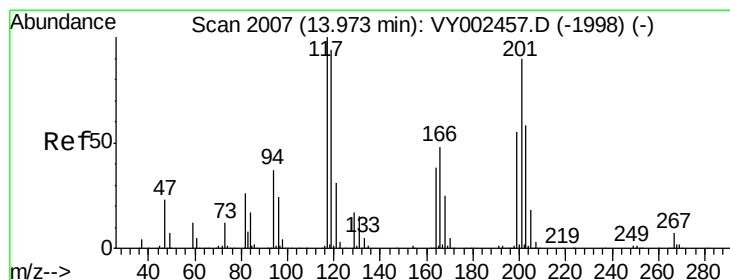
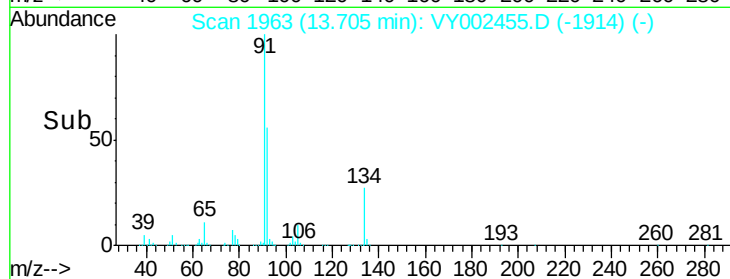
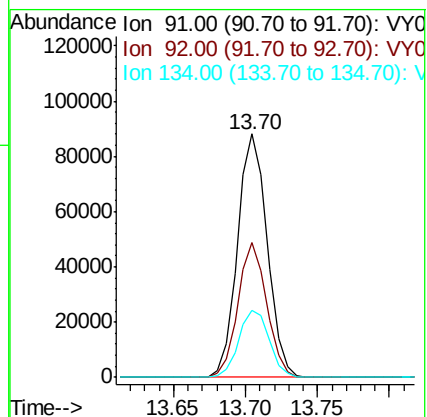
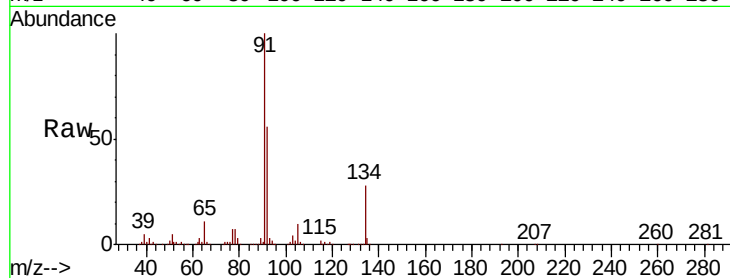
Tot Ion: 91 Resp: 126580

Ion Ratio Lower Upper

91 100

92 53.8 26.5 79.4

134 28.2 14.3 42.9



#90

Hexachloroethane

Concen: 9.733 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VY002455.D

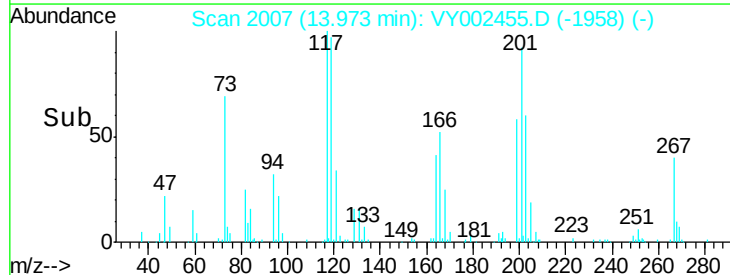
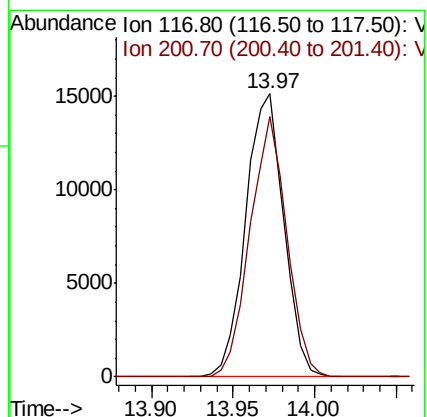
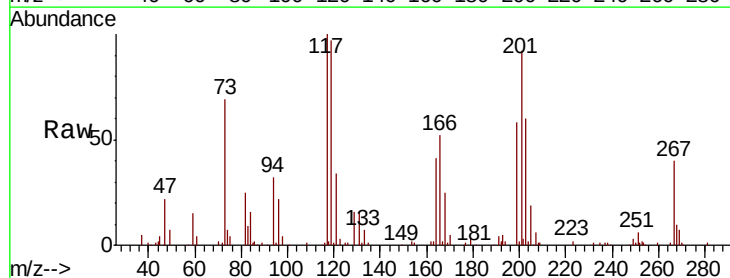
Acq: 23 Apr 2020 11:43

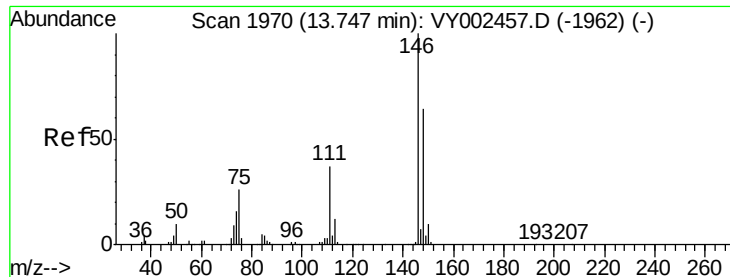
Tgt Ion: 117 Resp: 24565

Ion Ratio Lower Upper

117 100

201 88.4 44.4 133.1

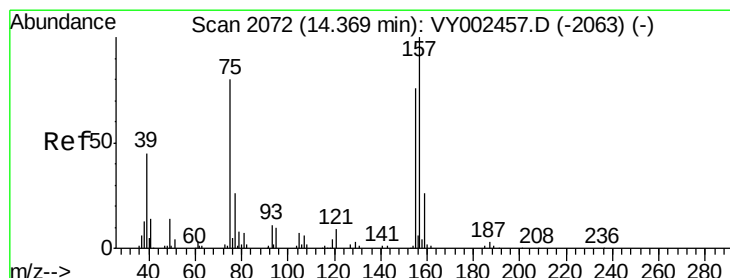
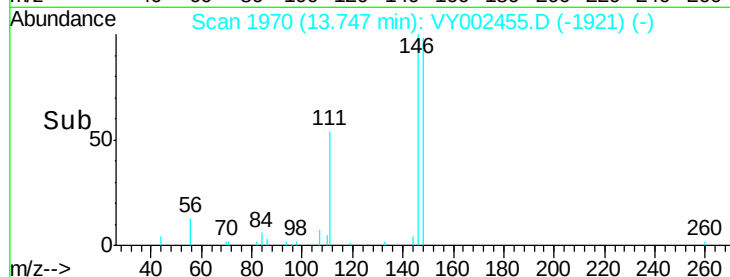
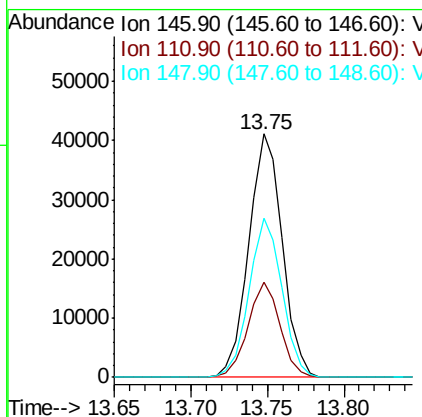
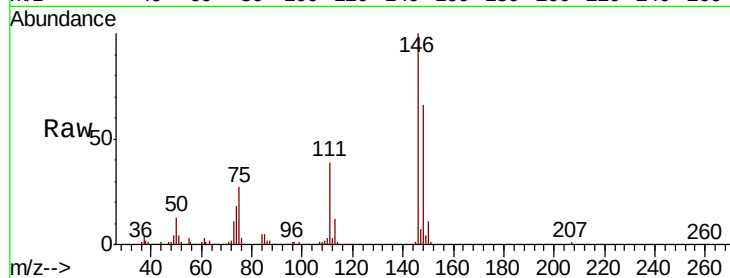




#91  
 1,2-Dichlorobenzene  
 Concen: 10.031 ug/l  
 RT: 13.75 min Scan# 1970  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

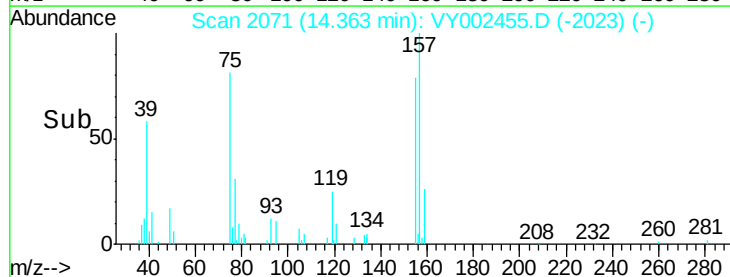
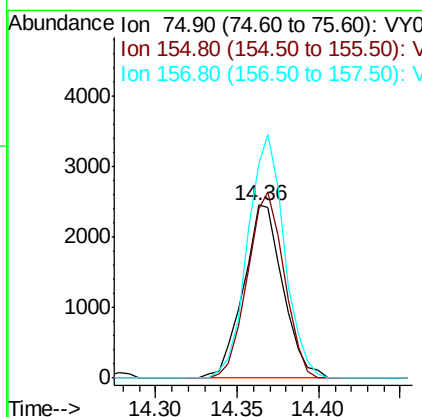
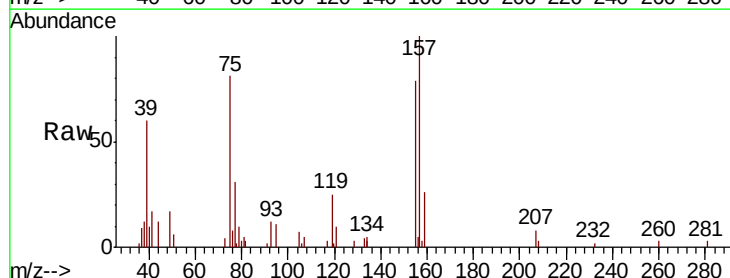
Instrument :  
 MSVOA\_Y  
 ClientSampled :

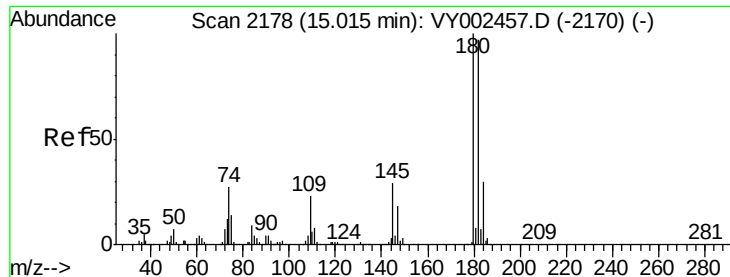
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.4  | 18.9  | 56.9  |
| 148     | 64.1  | 31.6  | 94.7  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 9.407 ug/l  
 RT: 14.36 min Scan# 2071  
 Delta R.T. -0.01 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 99.6  | 49.6  | 149.0 |
| 157     | 130.6 | 62.6  | 187.9 |

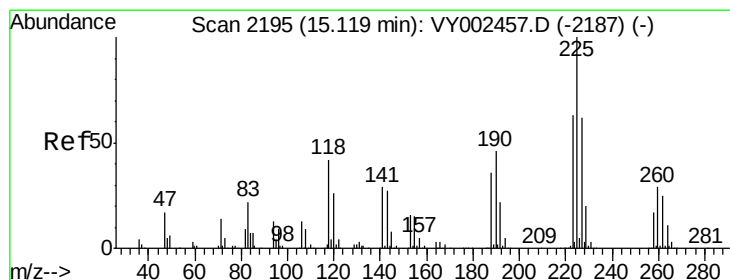
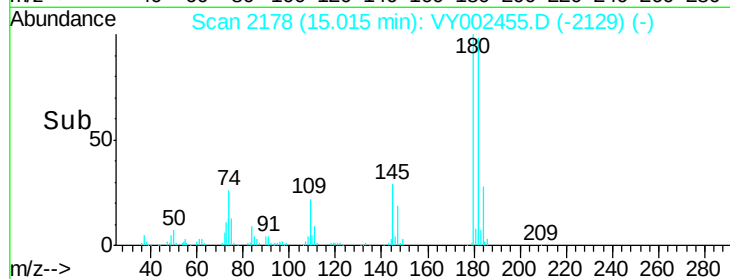
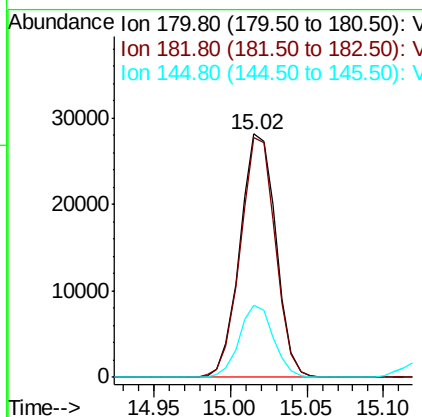
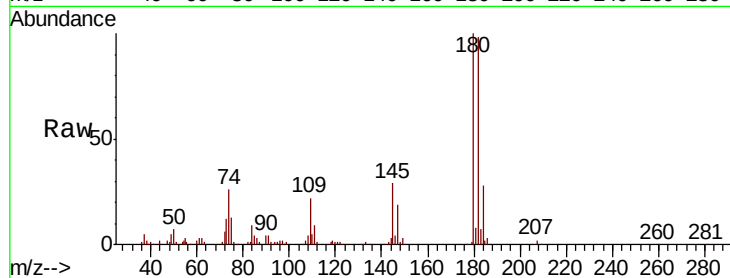




#93  
 1,2,4-Trichlorobenzene  
 Concen: 9.885 ug/l  
 RT: 15.02 min Scan# 2178  
 Delta R.T. 0.00 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

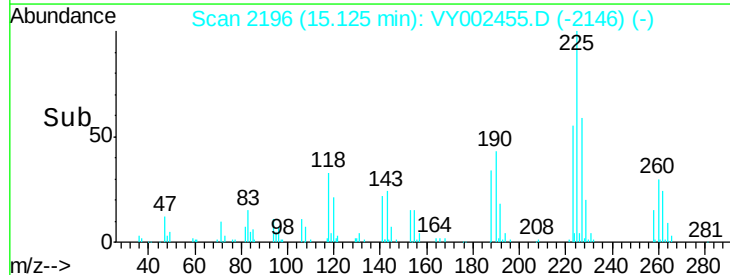
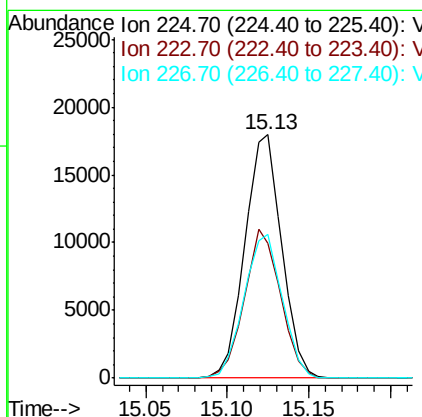
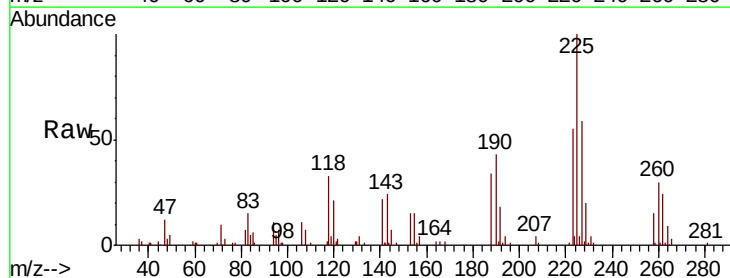
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

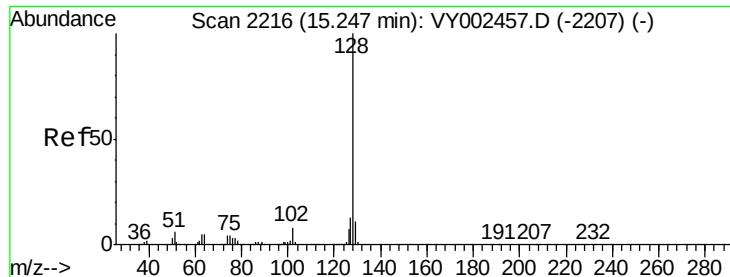
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.4  | 47.9  | 143.7 |
| 145     | 28.3  | 14.2  | 42.6  |



#94  
 Hexachlorobutadiene  
 Concen: 9.993 ug/l  
 RT: 15.13 min Scan# 2196  
 Delta R.T. 0.01 min  
 Lab File: VY002455.D  
 Acq: 23 Apr 2020 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 60.4  | 31.1  | 93.3  |
| 227     | 61.8  | 31.5  | 94.5  |

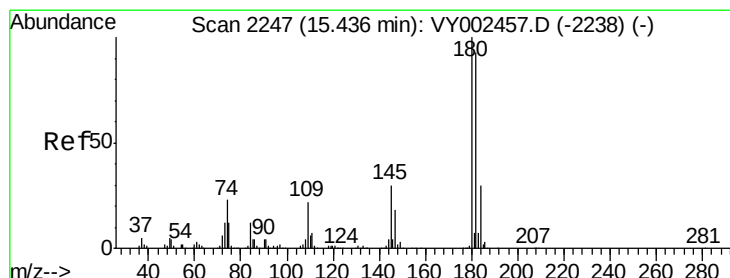
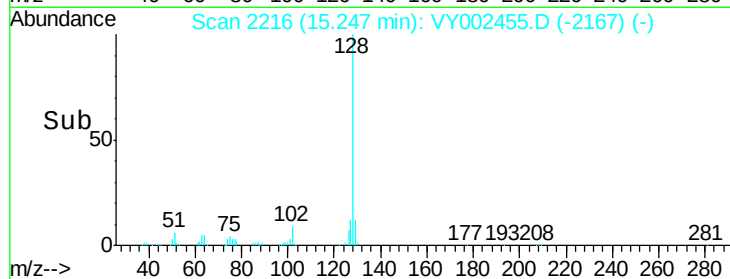
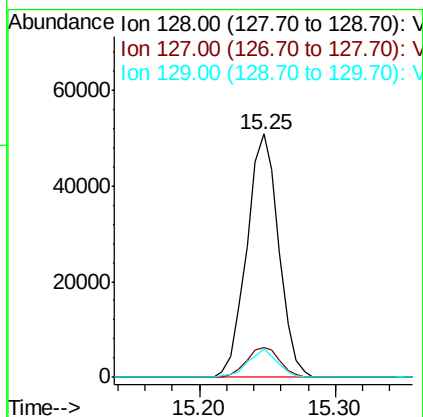
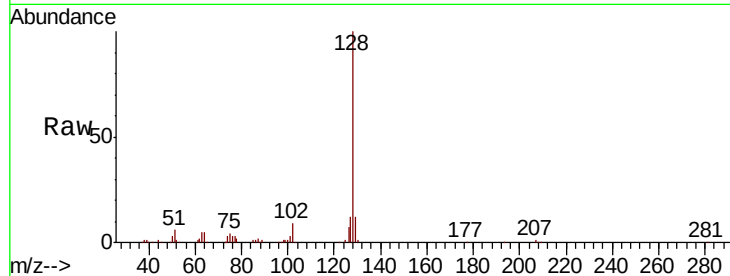




#95  
Naphthalene  
Concen: 9.956 ug/l  
RT: 15.25 min Scan# 2216  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:128 Resp: 83753  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.5 15.7  
129 10.7 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 10.000 ug/l  
RT: 15.44 min Scan# 2247  
Delta R.T. 0.00 min  
Lab File: VY002455.D  
Acq: 23 Apr 2020 11:43

Tgt Ion:180 Resp: 38995  
Ion Ratio Lower Upper  
180 100  
182 95.3 47.5 142.6  
145 31.5 15.3 45.9

