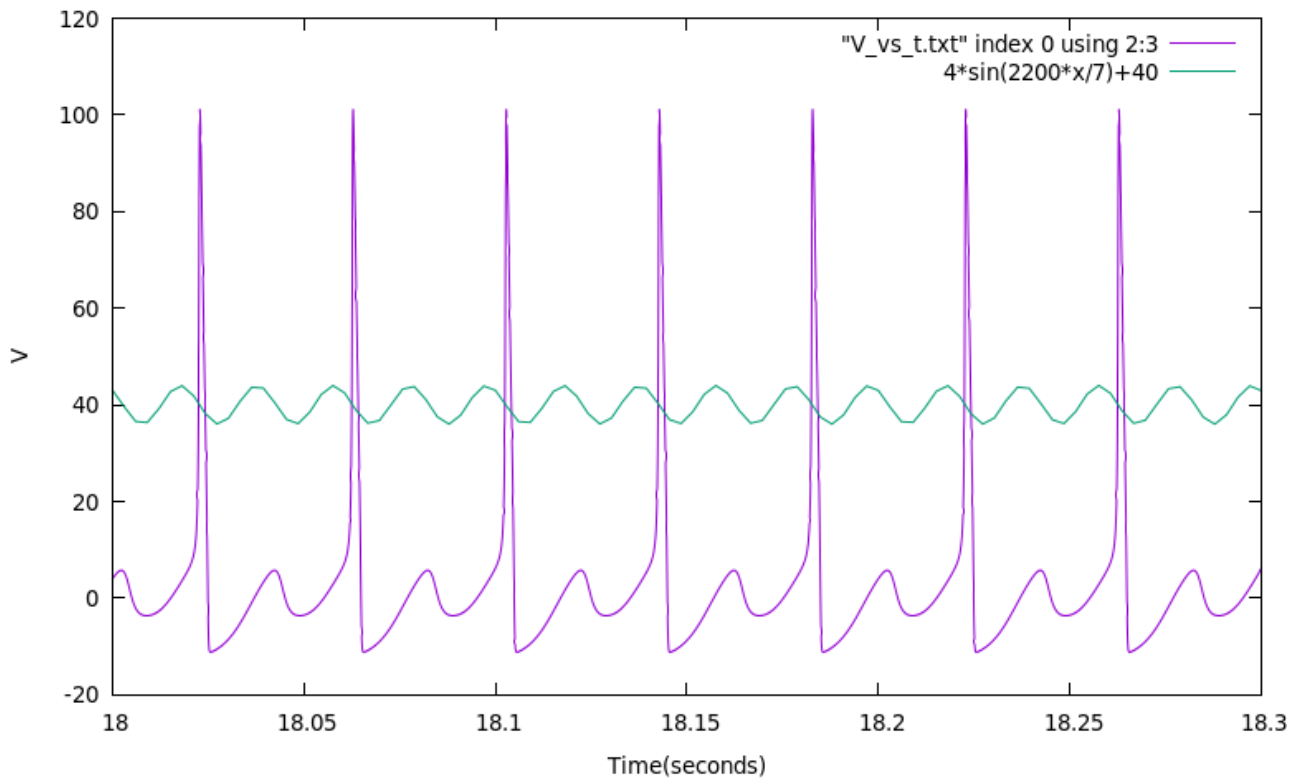


Trial

Iext= 1.6



Gnu plot code:

```
gnuplot> set xlabel "Time(seconds)"
```

```
gnuplot> set ylabel "V"
```

```
gnuplot> set xrange[18:18.3]
```

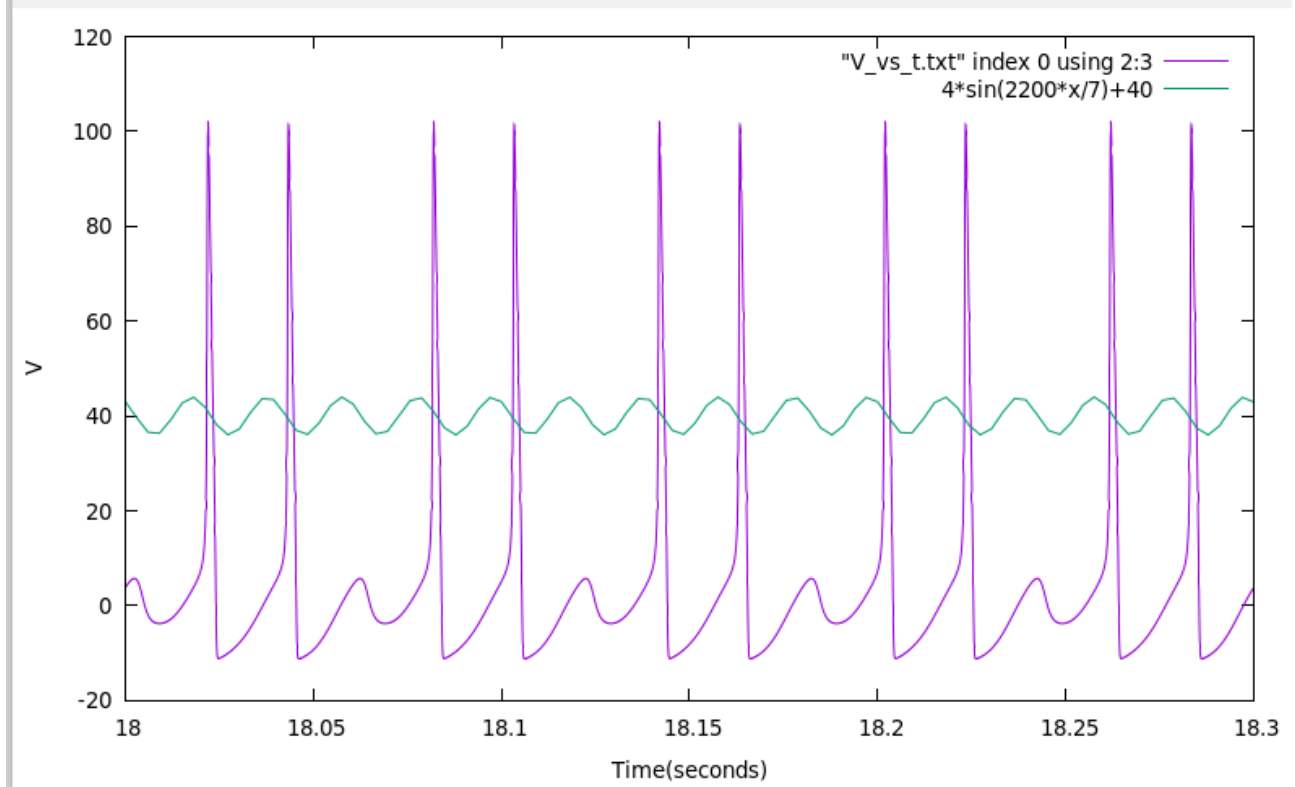
```
gnuplot> plot "V_vs_t.txt" index 0 using 2:3 w lines,4*sin(2200*x/7)+40
```

Step: 0.001

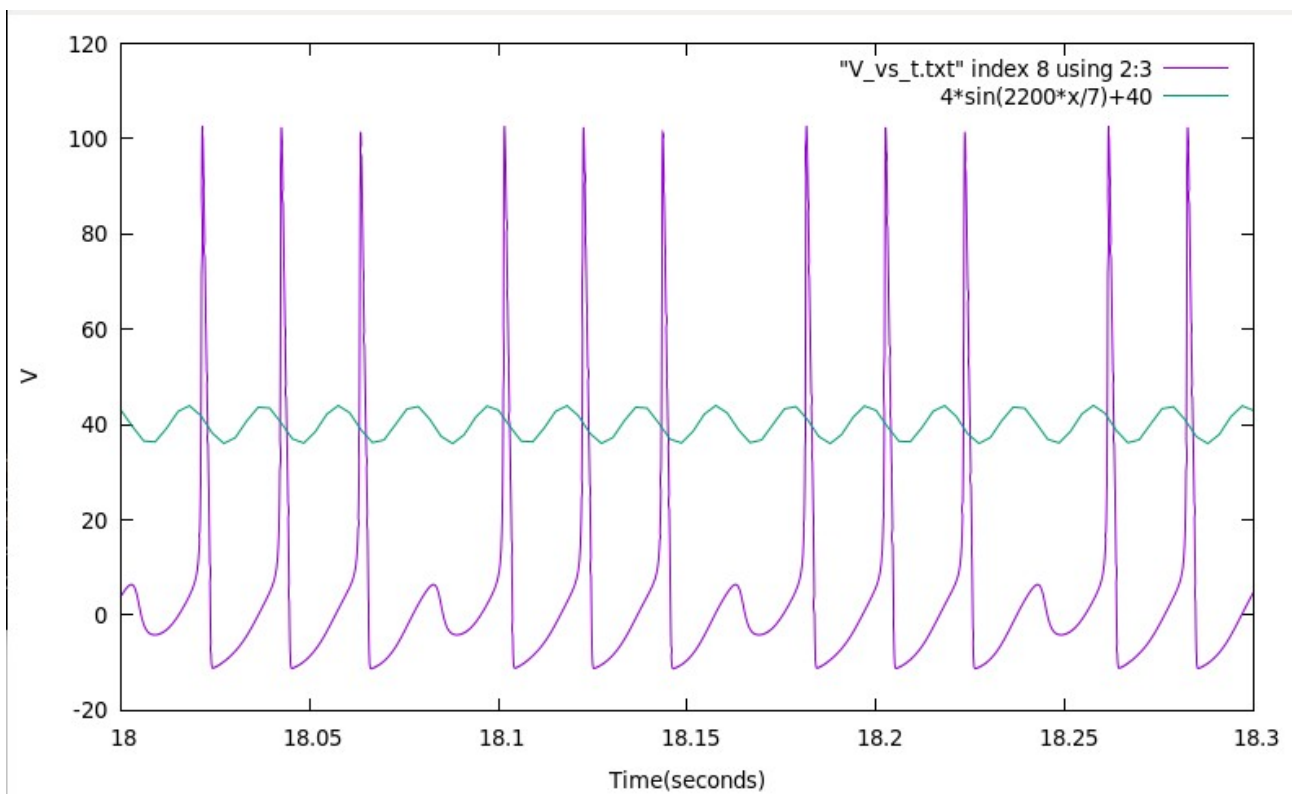
Iextmin:1.600

Iextmax: 1.650

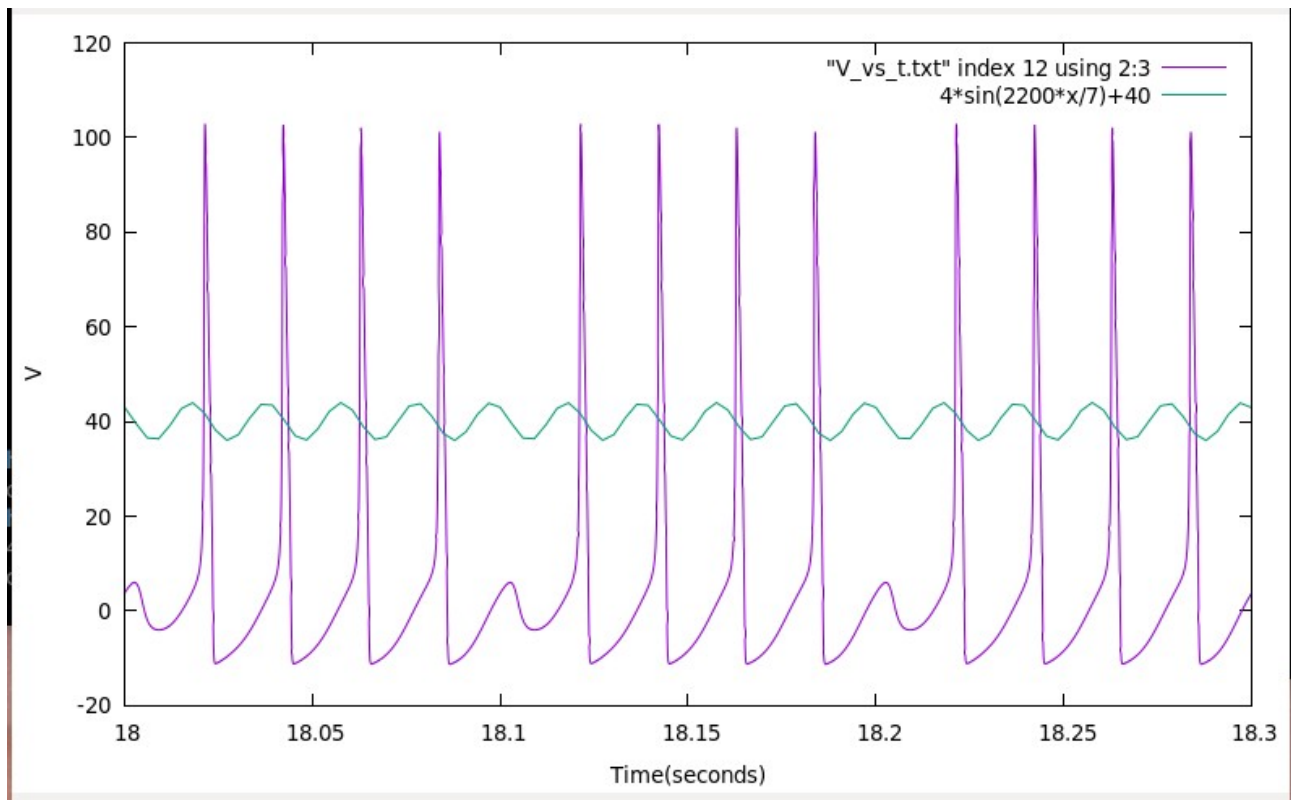
Trial 2



Iext = 1.7



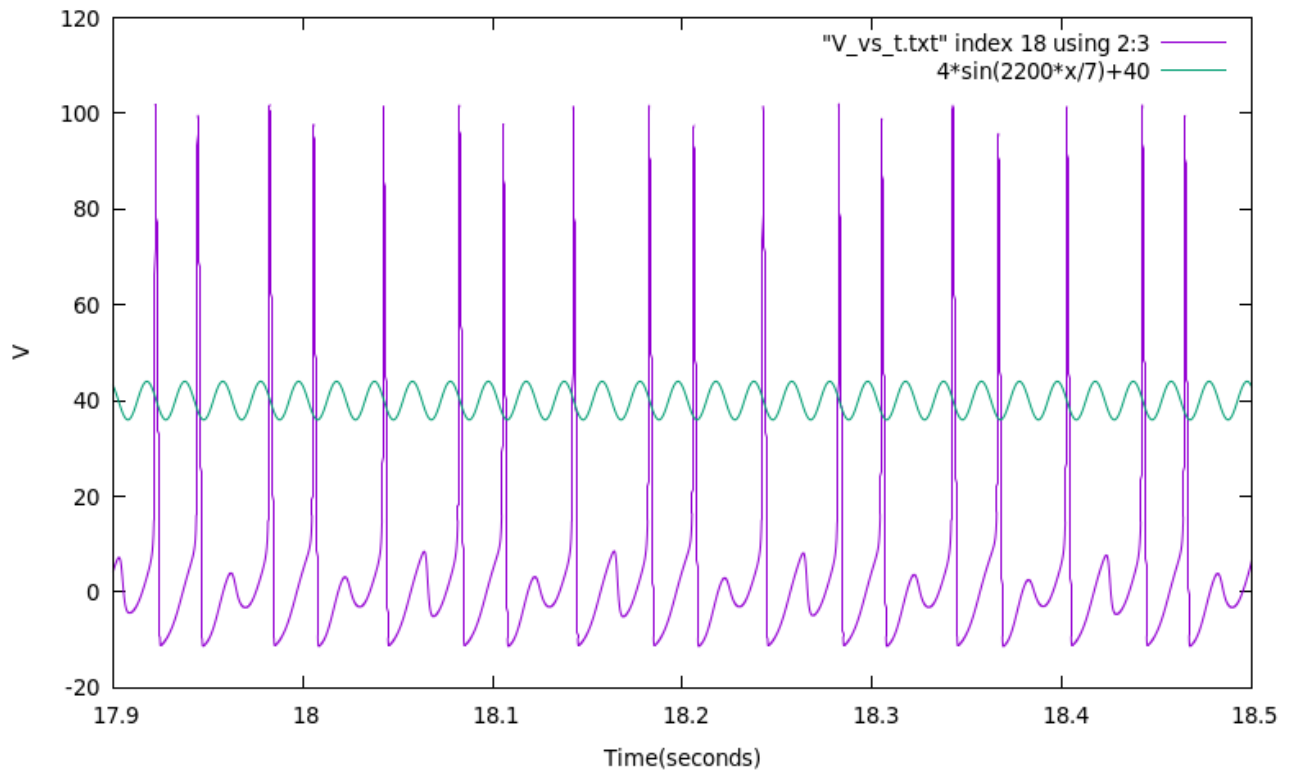
Iext = 1.78



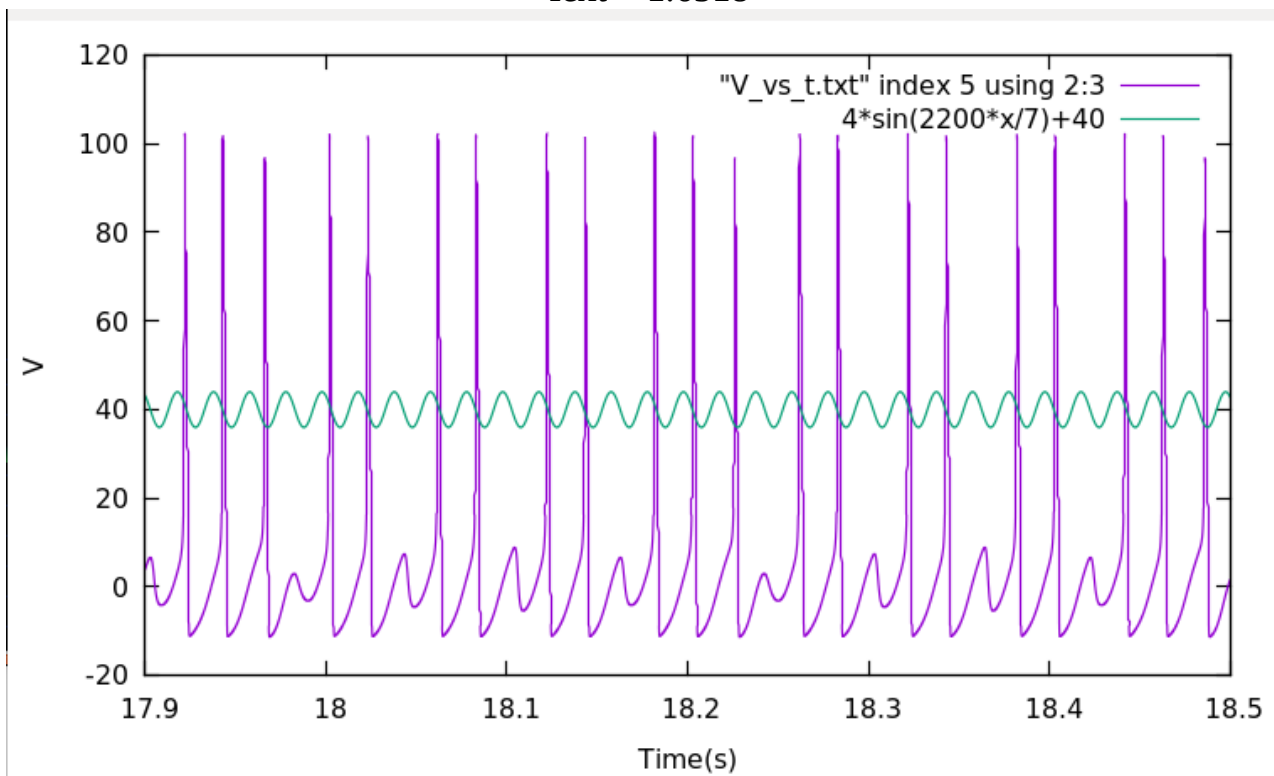
Iext = 1.82

Step: 0.01
Iextmin:1.7
Iextmax:1.83

Trial 3



ltext = 1.6518



ltext=1.7345

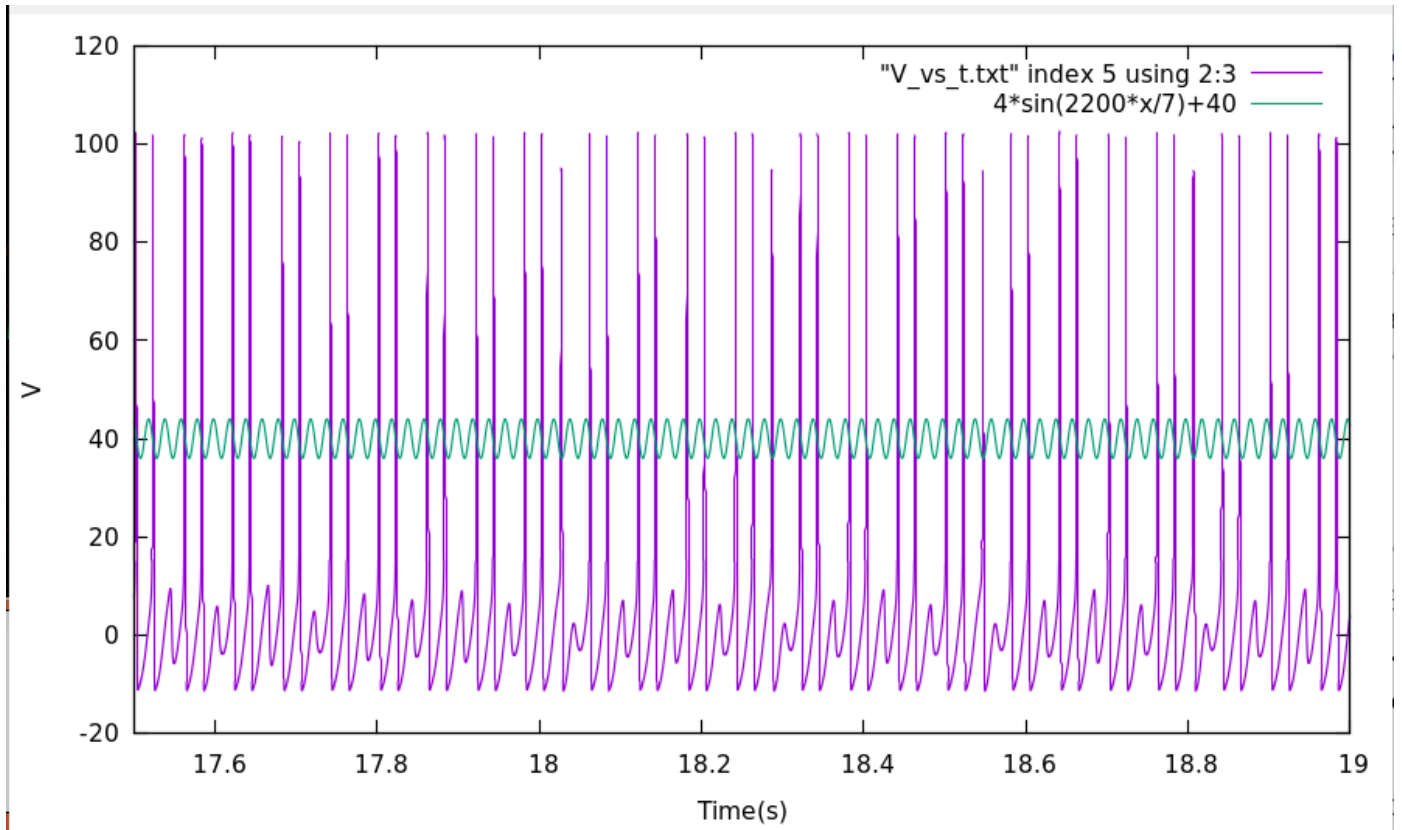
Gnuplot code:

```
gnuplot> set xrange[17.9:18.5]
```

```
gnuplot> set samples 10000
```

```
gnuplot> plot "V_vs_t.txt" index 18 using 2:3 w lines,4*sin(2200*x/7)+40
```

Trial 3

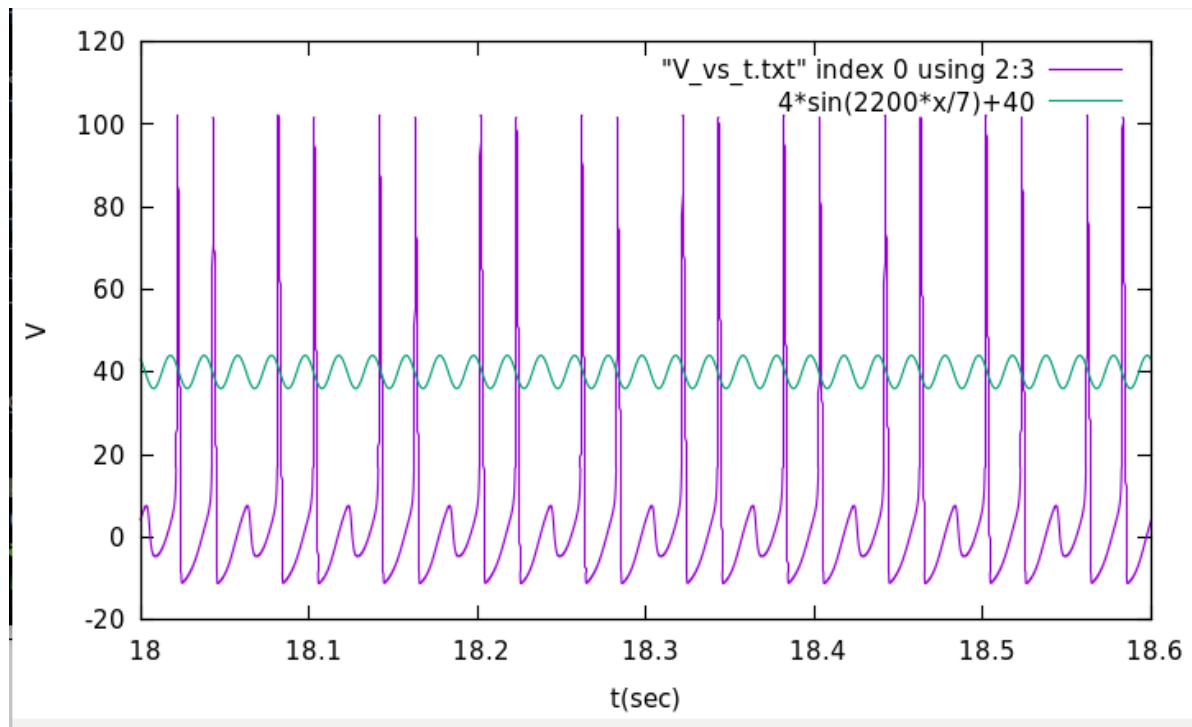


ltext=1.73365

```
gnuplot> set xrange[17.5:19]
```

```
gnuplot> plot "V_vs_t.txt" index 5 using 2:3 w lines,4*sin(2200*x/7)+40
```

Trial 3

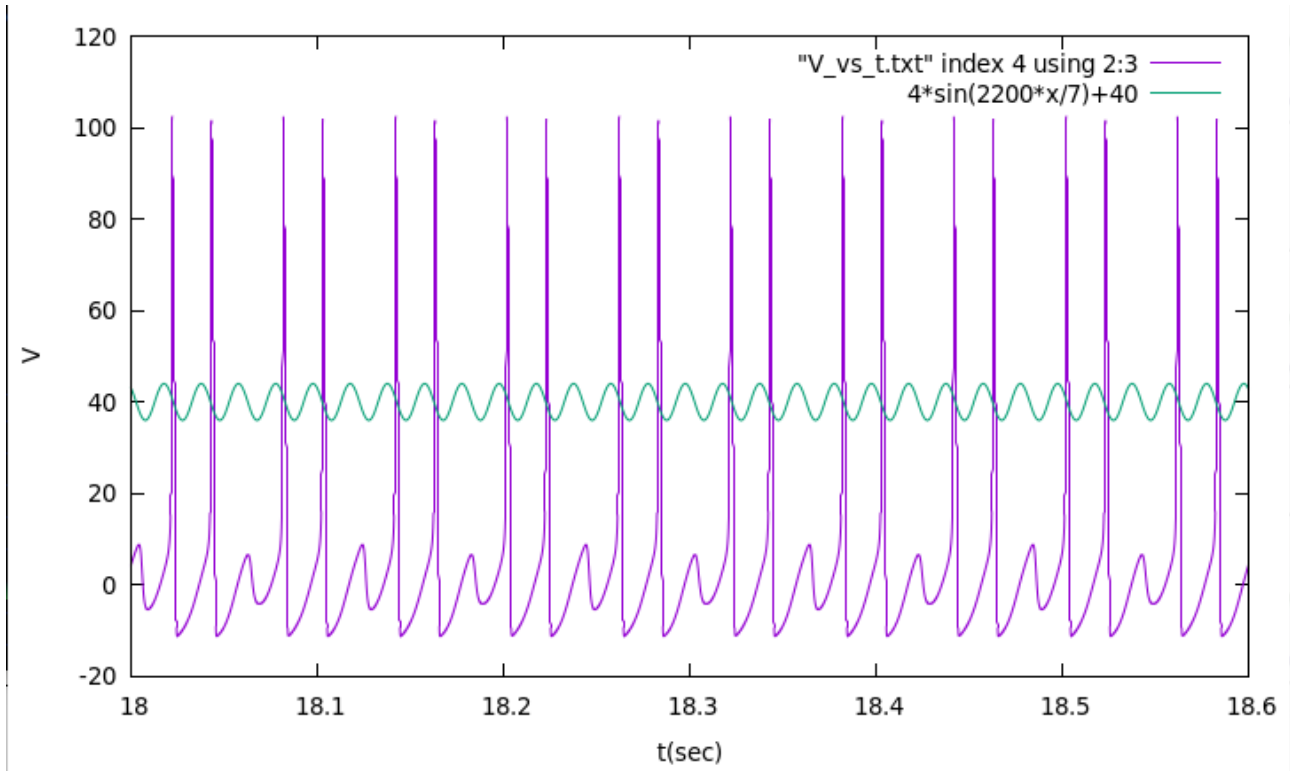


ltext=1.731

```
gnuplot> set xrange[18:18.6]
```

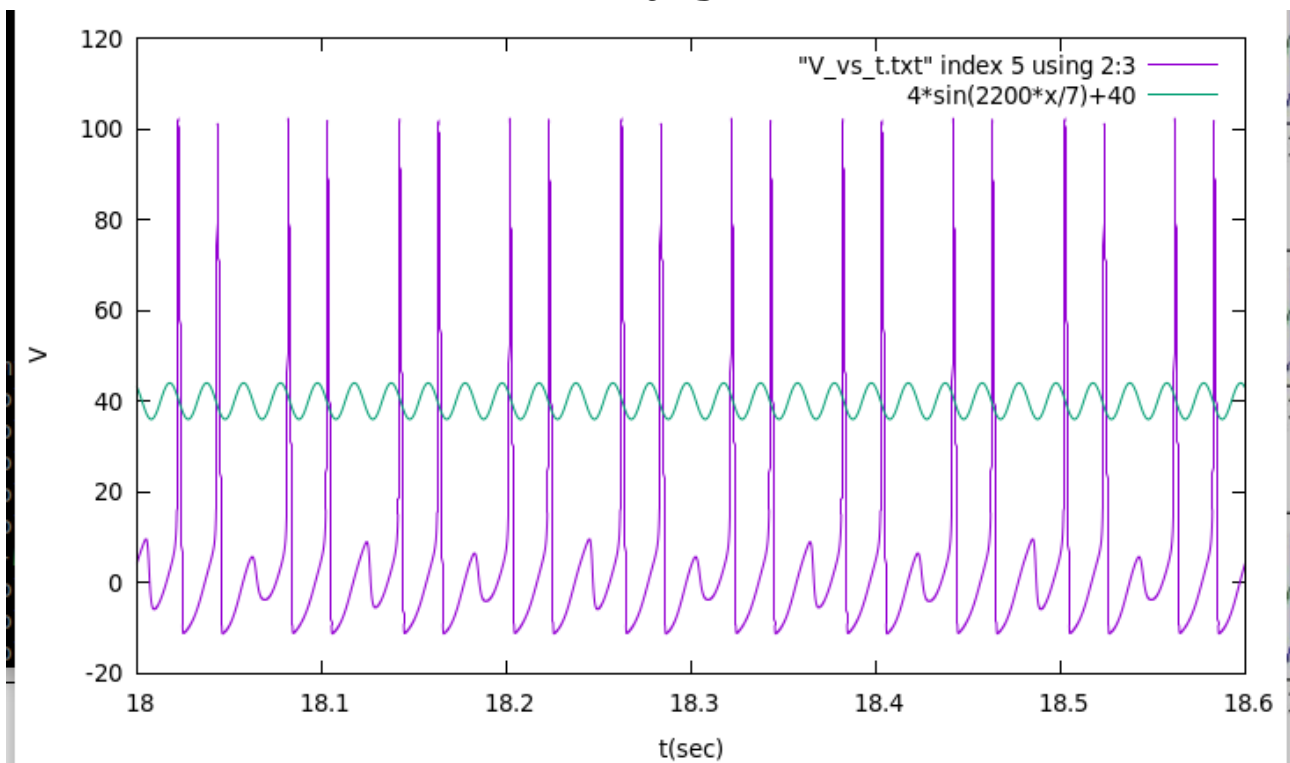
```
gnuplot> plot "V_vs_t.txt" index 0 using 2:3 w lines,4*sin(2200*x/7)+40
```

Trial 4



Iext=1.7324

Trial 5



Iext=1.73315