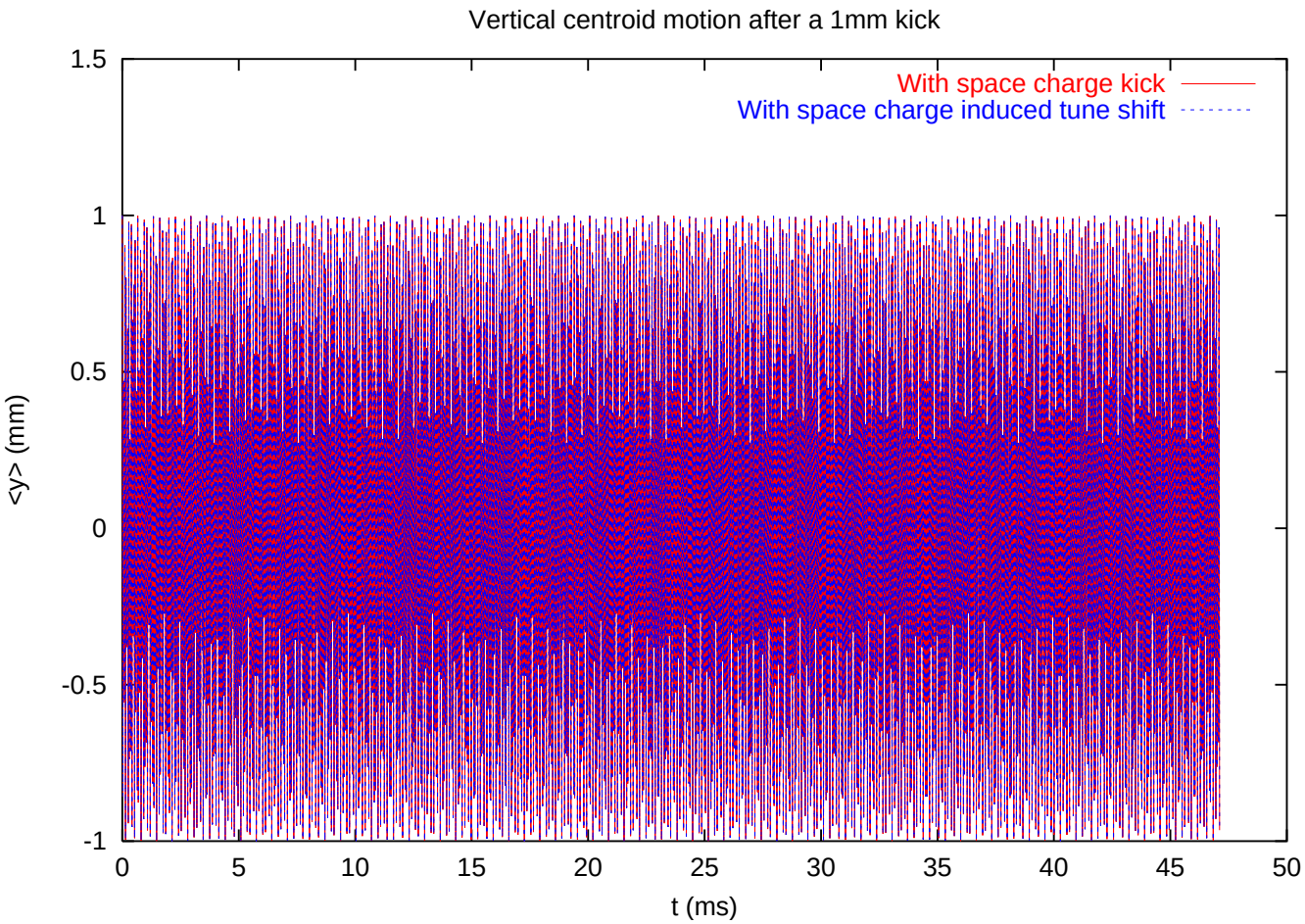
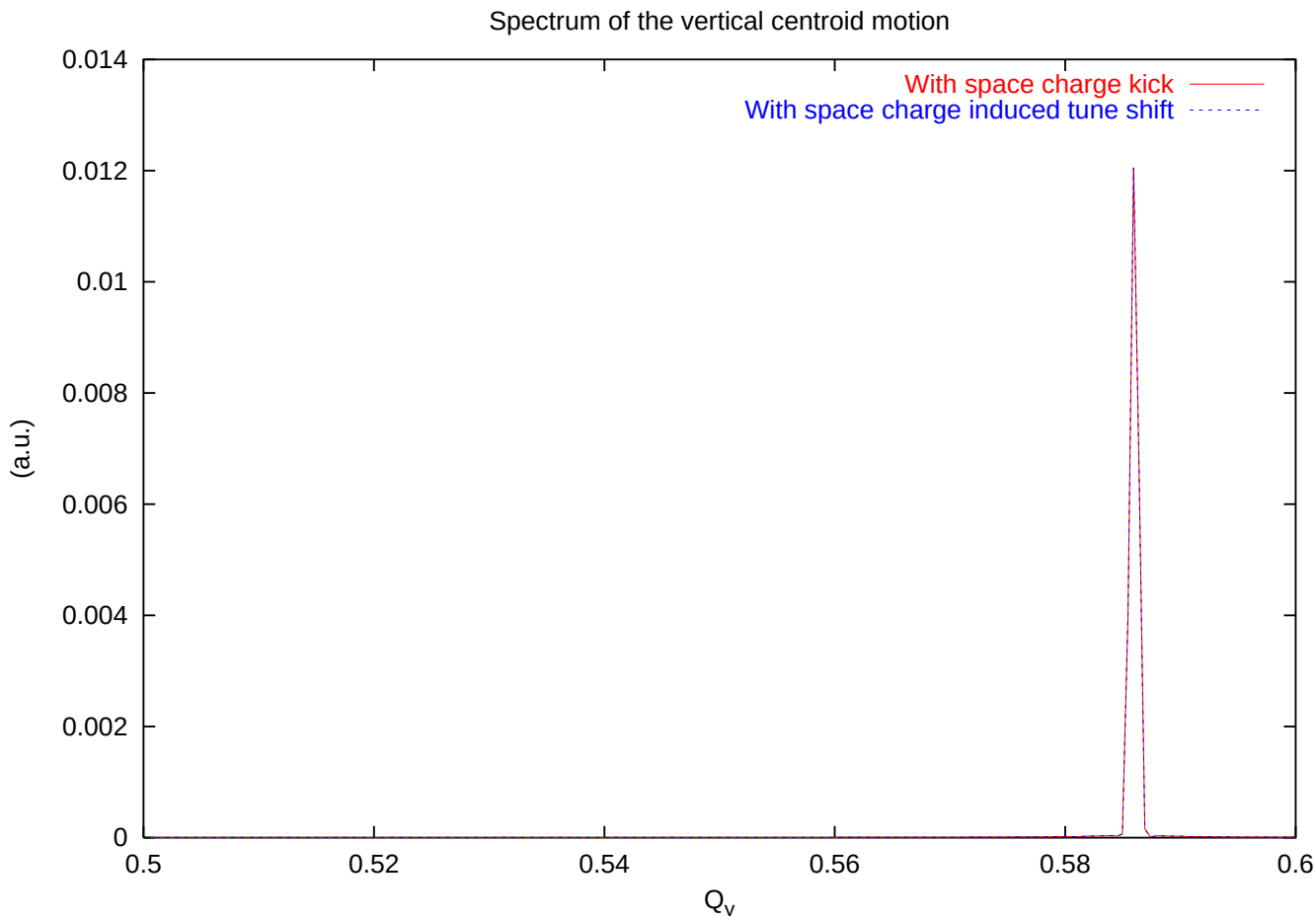

Vertical centroid motion after a 1mm kick
With space charge kick
With space charge induced tune shift
<y> (mm)
t (ms)
1.5
1
0.5
0
-0.5
-1
0
5
10
15
20
25
30
35
40
45
50


Spectrum of the vertical centroid motion
With space charge kick
With space charge induced tune shift
(a.u.)
Q_v
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
0.5
0.52
0.54
0.56
0.58
0.6