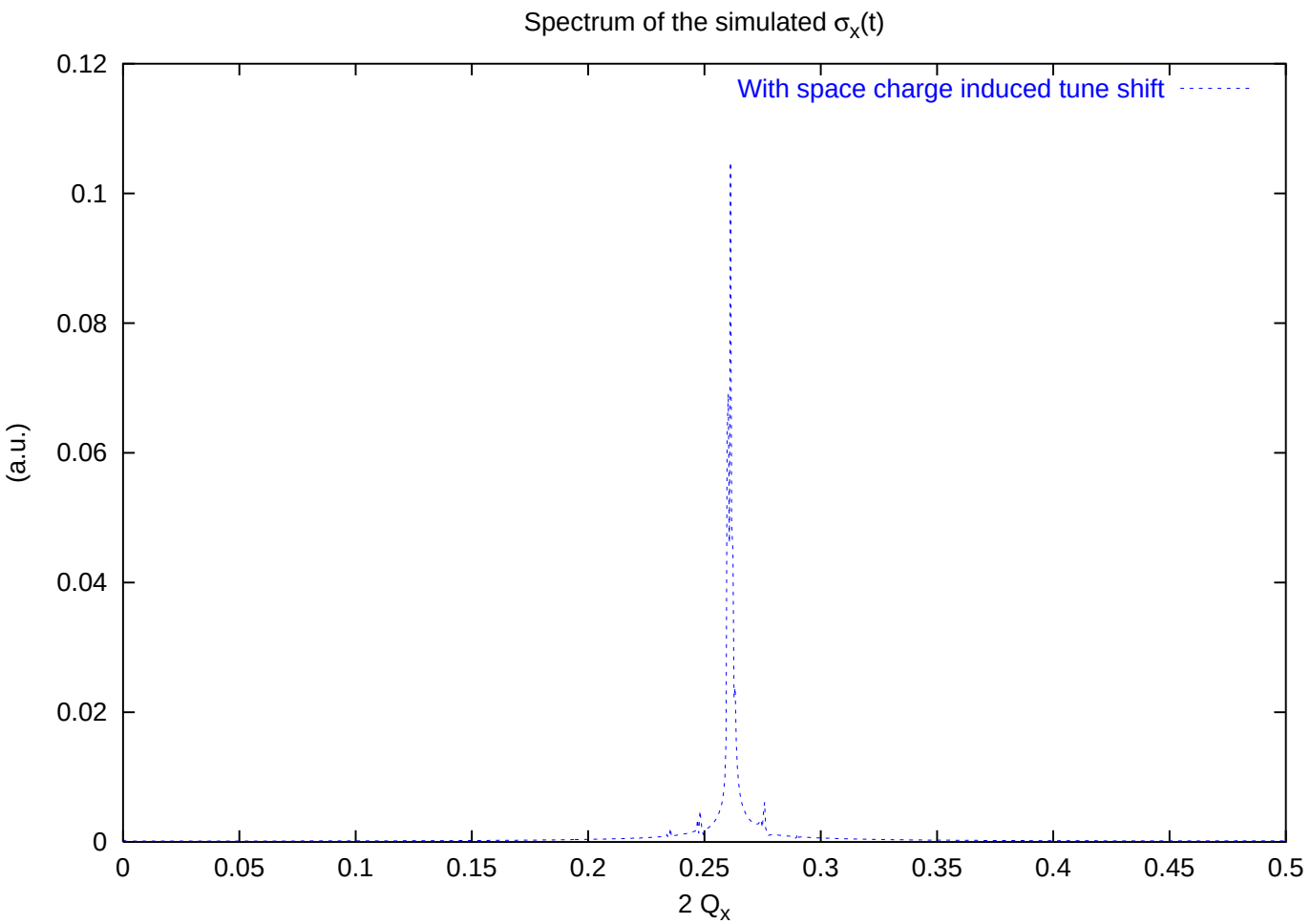
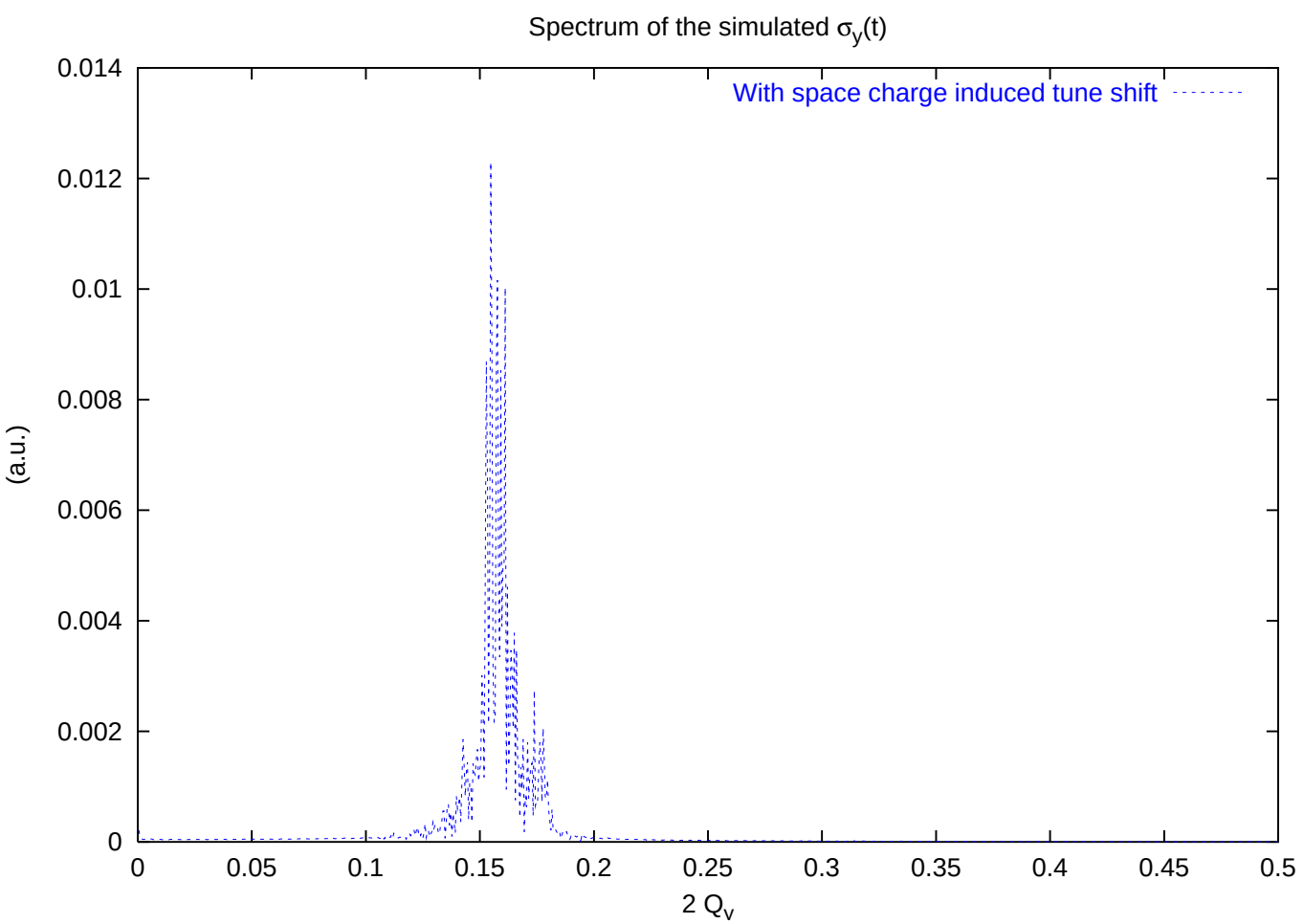

Spectrum of the simulated σx(t)
With space charge induced tune shift
(a.u.)
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
2 Qx


Spectrum of the simulated σy(t)
With space charge induced tune shift
(a.u.)
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
2 Qy