(a)

400
200
0
-200
-400
ΔE (Hz)

B_{ac} = 0.32 mG
B_{ac} = 0.16 mG
B_{ac} = 0 mG
B_{ac} = -0.08 mG
B_{ac} = -0.32 mG

(b)

150
100
50
0
Period (ms)

0.8
1.2
1.6
2.0
2.4
Magnetic field (G)