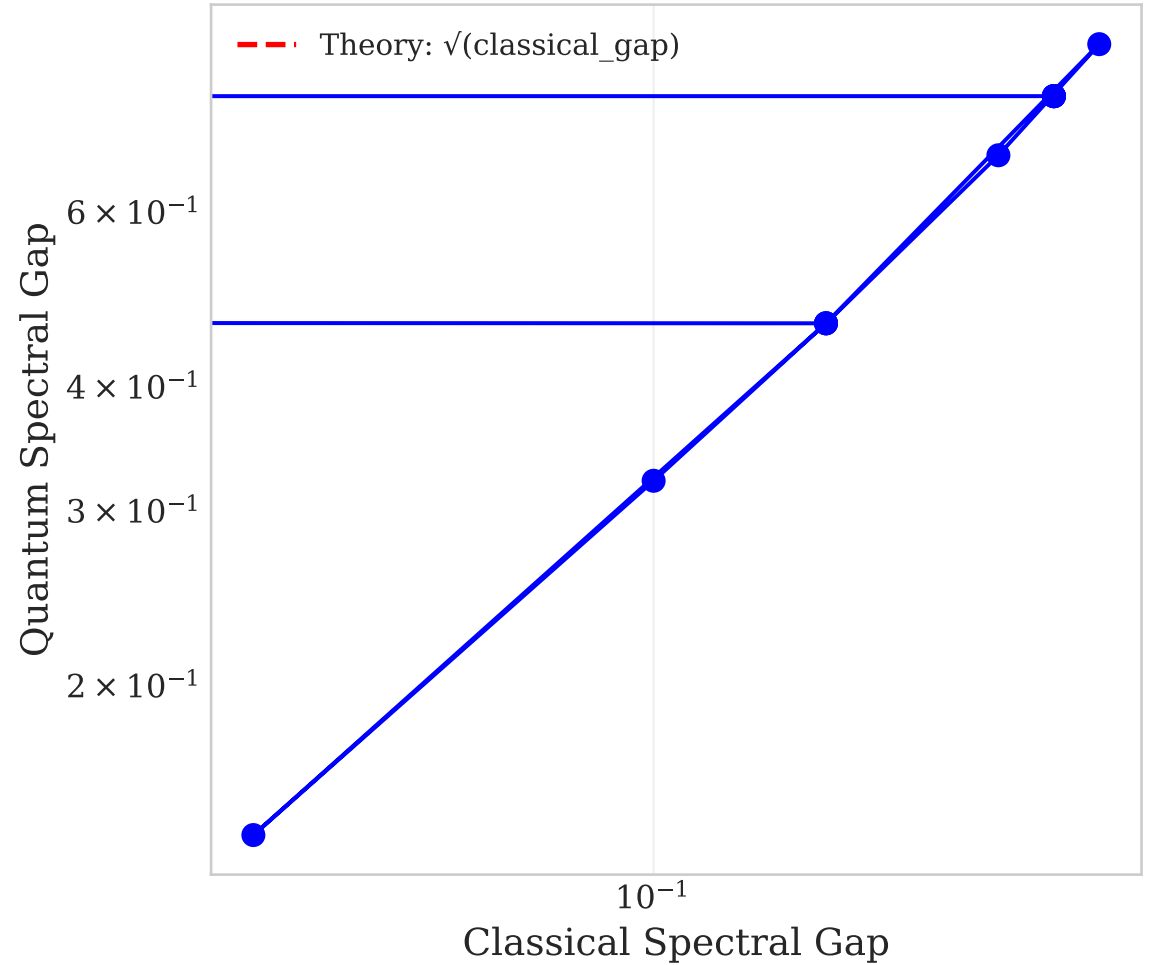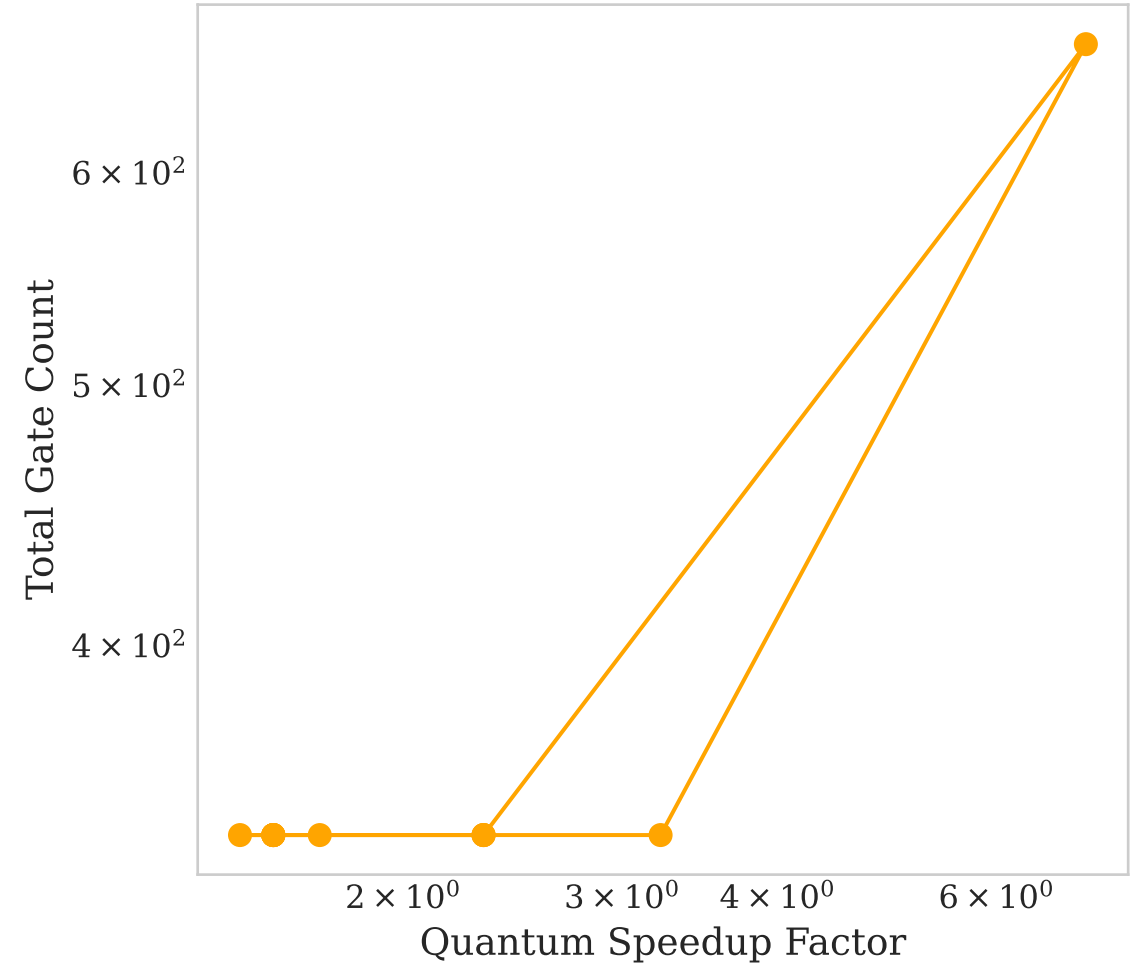Scaling Laws for Quantum MCMC Speedup

(a) Spectral Gap Scaling

(b) Resource Requirements vs Speedup

(c) Success Probability vs Speedup