Simulations with rate=0.01 and low rate variation
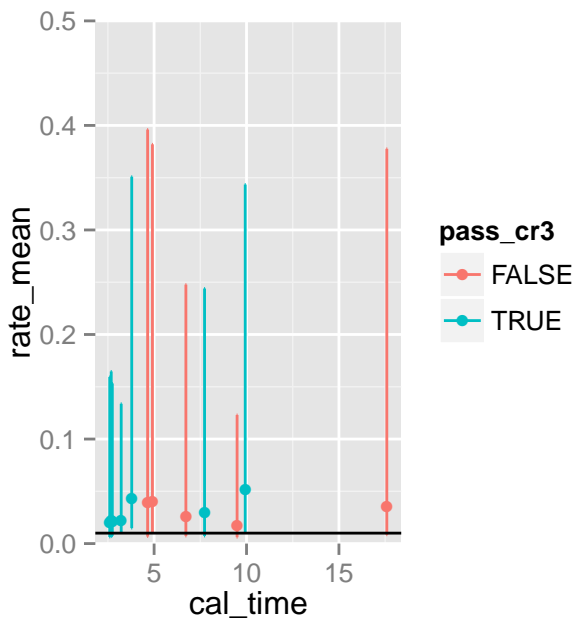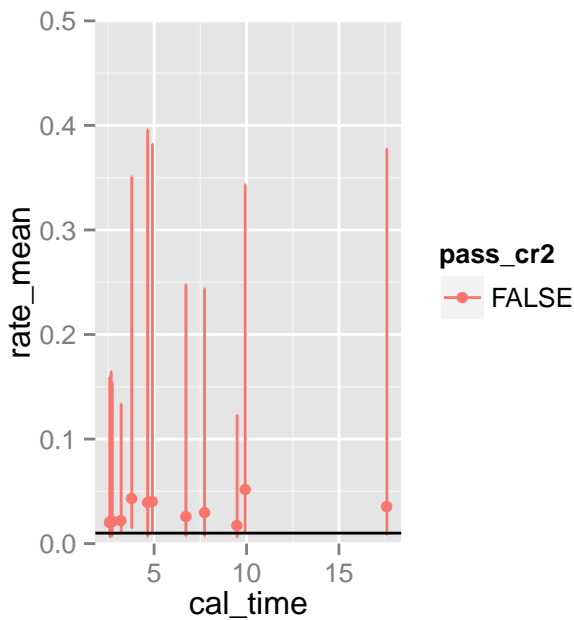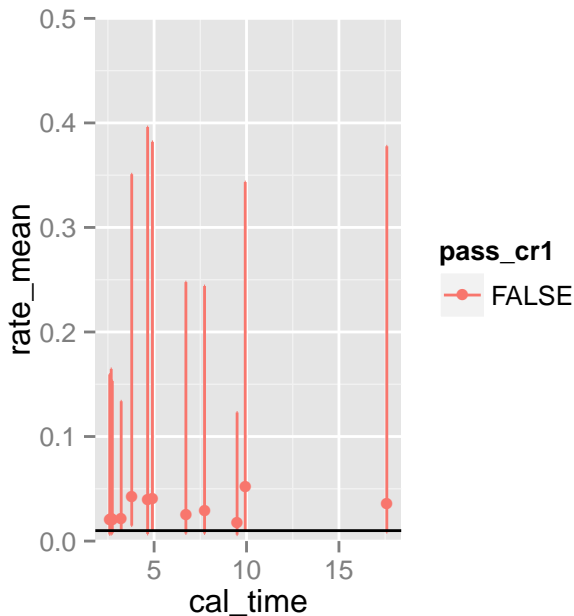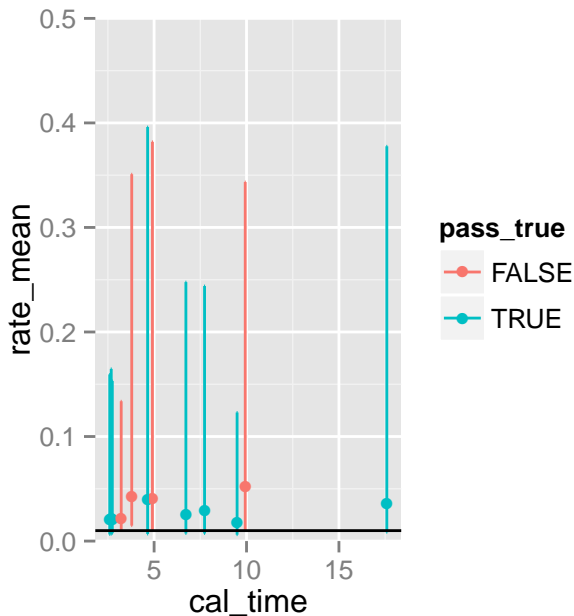
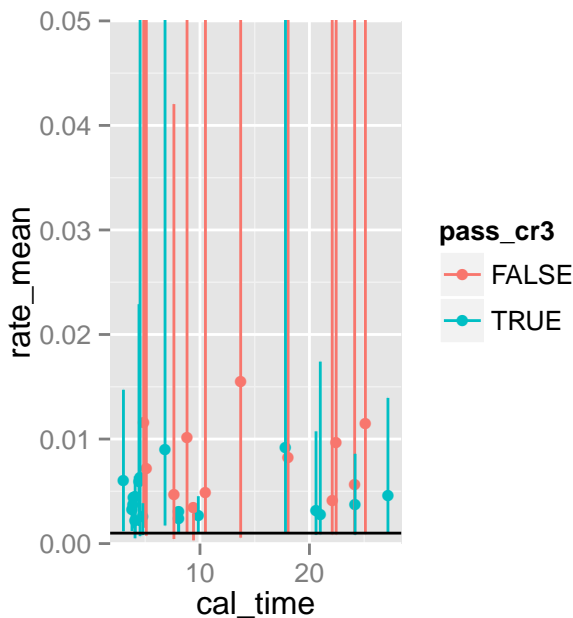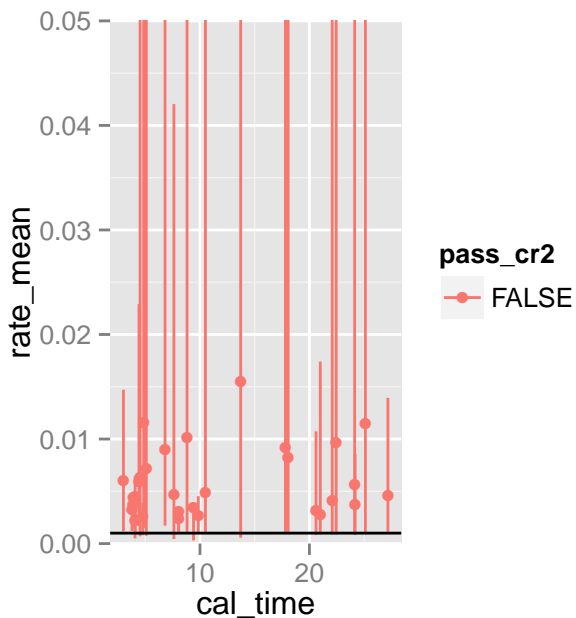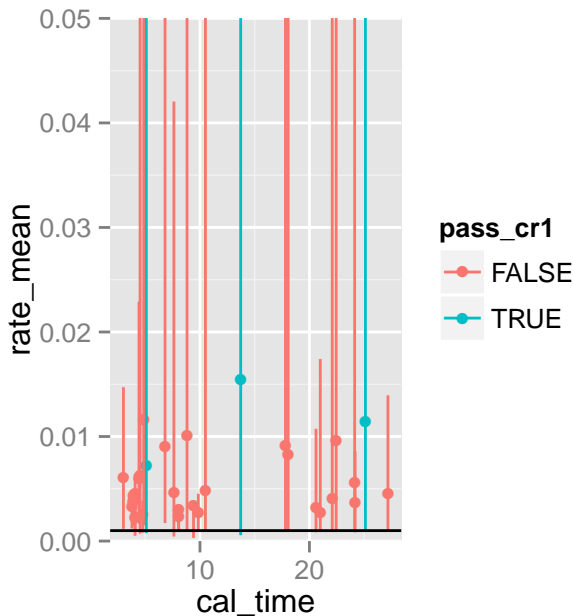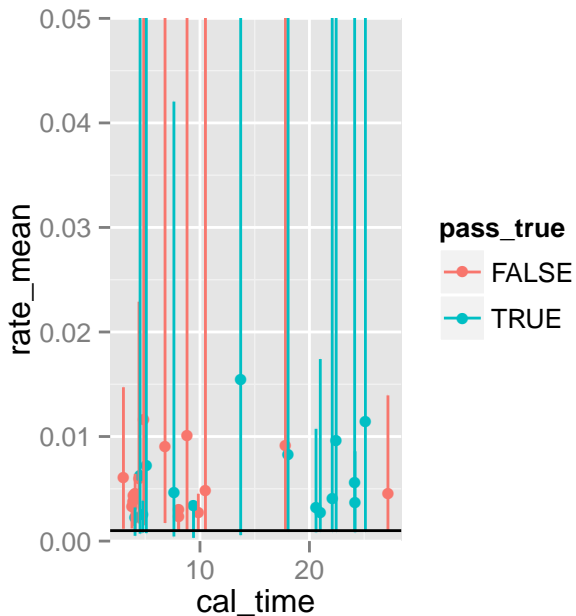Simulations with rate=0.001 and low rate variation

Simulations with rate=0.0001 and low rate variation