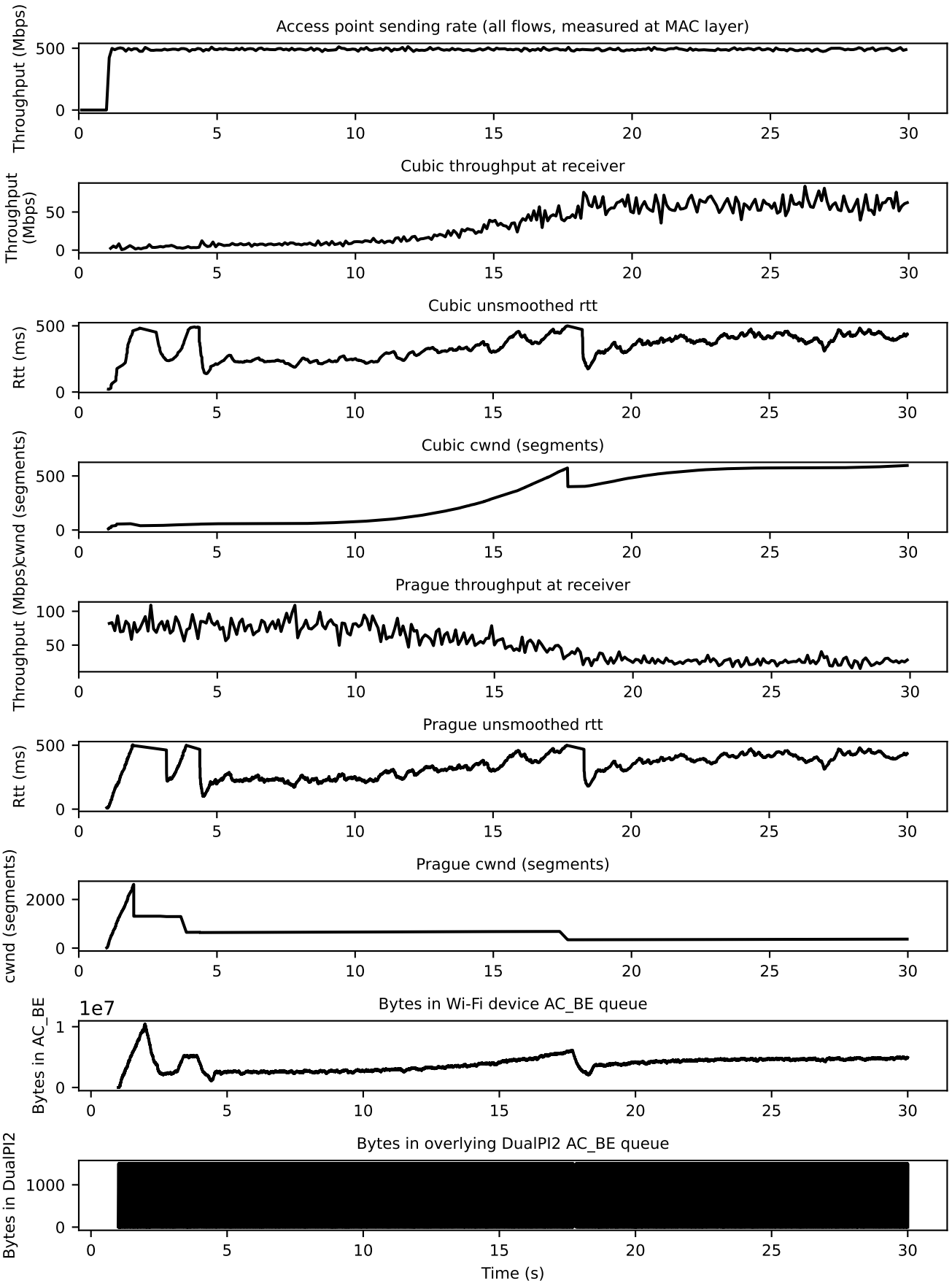Simulation ED4-MS2-AP0-LS2-TC5-TS1