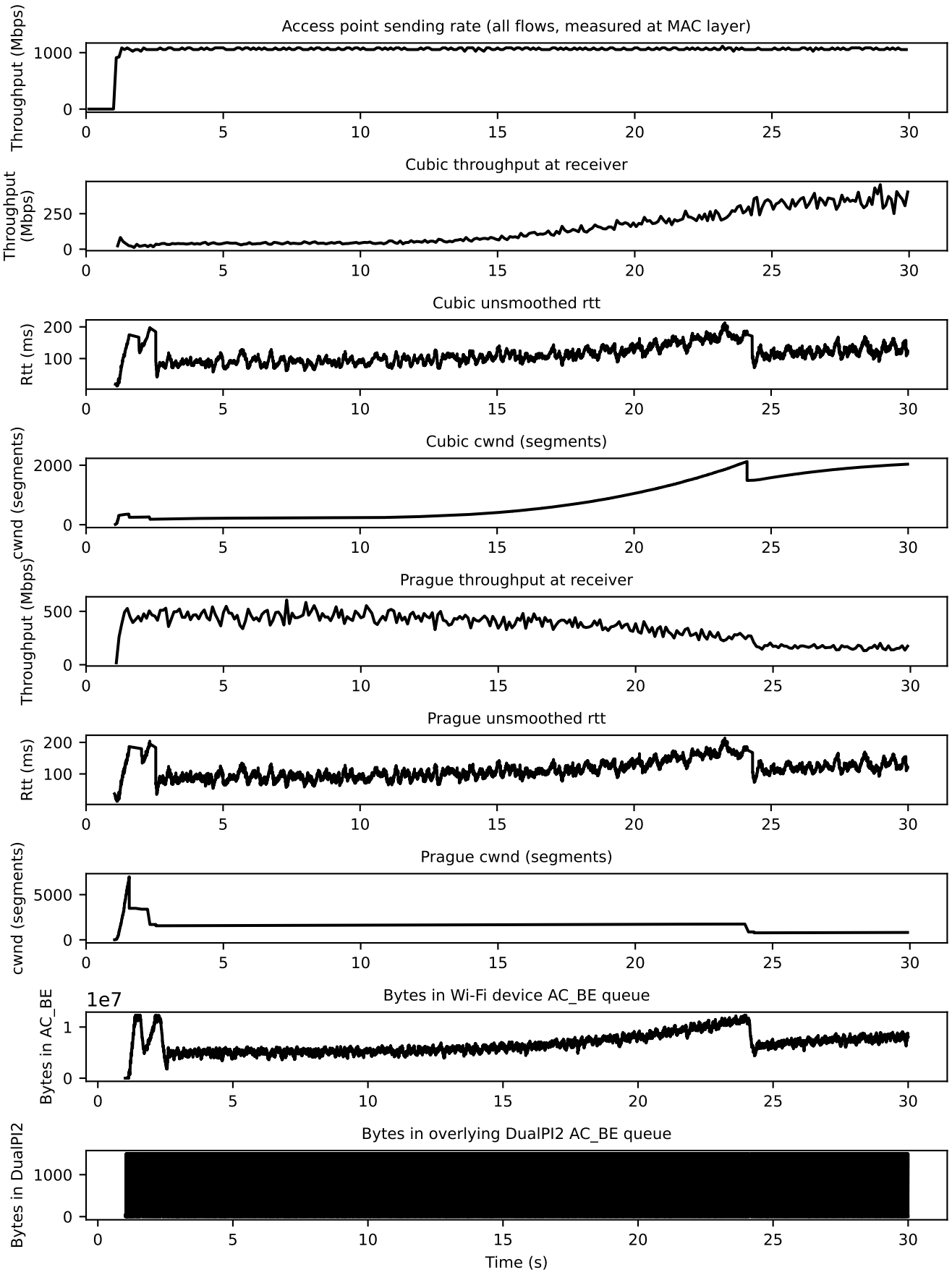Simulation ED3-MS1-AP0-LS3-TC4-TS2