



Figure S1 (a-d) Downstream aerosols concentrations, cm^{-3} , for DMA Cases 1-4, with sheath and excess air flow 3 L min^{-1} , and aerosol and sample flow of $0.06\text{-}0.90 \text{ L min}^{-1}$. (e-h) Downstream concentrations for DMA Cases 1 and 5-7, with sheath air flow 3.0 L min^{-1} , sample flow 0.30 L min^{-1} , and excess air flow $2.94\text{-}3.06 \text{ L/min}$.