Supplement of

Efficient droplet activation of ambient black carbon particles in sub-urban environment

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Figure S1. Time series of Benzene and Toluene mass concentrations, the ratio of Toluene and Benzene, and $t_{age}$ (a). Frequency analysis of $t_{age}$ at three different clusters (b).
Figure S2. Under SS=0.2%, a) and b) four clusters diurnal variations of activation diameter (D50), d), e) mass and number activation fraction ($F_{act}$) for all particle and BCc, respectively. c) D50 and f) $F_{act}$, distributions of all-particles and BCc for four clusters, with solid circle indicating the average; in each box, the solid line and top and bottom boundaries represent the median, 75th and 25th, respectively.
Figure S3. Identical plots with Fig. S2 but for SS=0.3%.
Figure S4. The evolution of volume ratios of coating over rBC with photochemical age ($t_{age}$) under SS at 0.1%, 0.2%, c) 0.3%.