Supplement of

Online gas- and particle-phase measurements of organosulfates, organosulfonates and nitrooxy organosulfates in Beijing utilizing a FIGAERO ToF-CIMS

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Figure S1. Time series of mass calibrant error in ppm $I^1$ (green), $I^3$ (grey) PFPA (blue) and PFPA dimer (black) throughout the campaign.
Figure S2. Peak fittings for the SCOs identified in the ambient spectra. The data is taken as the averaged desorption spectra from the entire data set.
Figure S3. Comparison of CIMS SCO data with HPLC and Orbitrap filter measurements. The data represents overlapping measurements of the same species. CIMS desorption counts were averaged during each filter collection period.

Figure S4. NP OS average campaign thermogram and $T_{\text{max}}$ estimation and variation. A correlation is observed between $T_{\text{max}}$ and temperature but not RH (top right window)