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Supplement of

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

Michael Le Breton et al.

Correspondence to: Michael Le Breton (michael.le.breton@gu.se) and Song Guo (guosong@pku.edu.cn)

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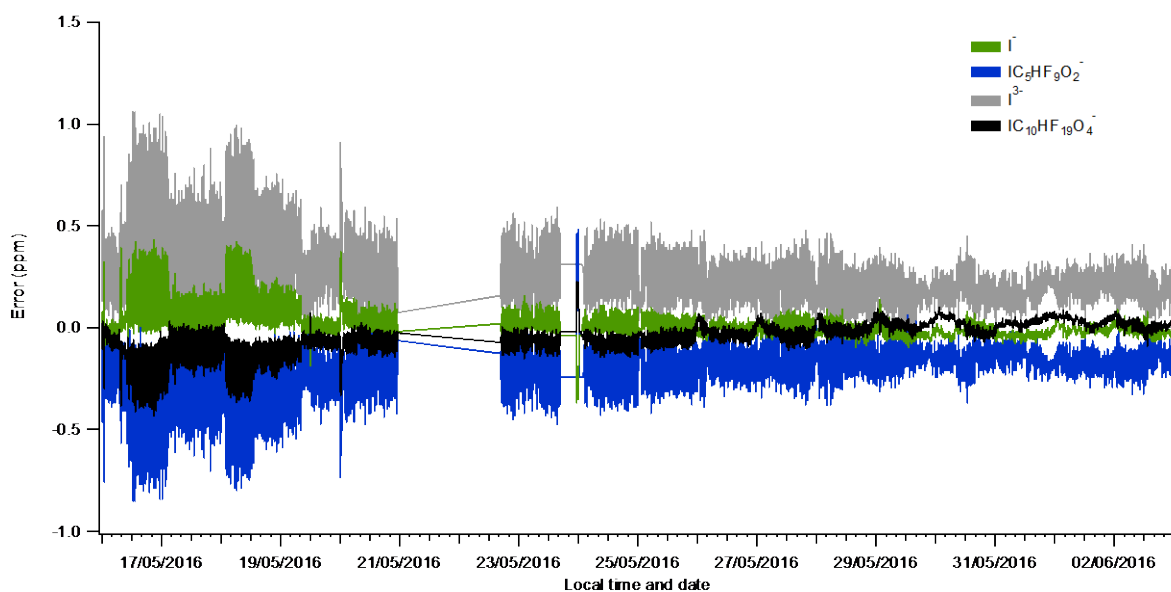
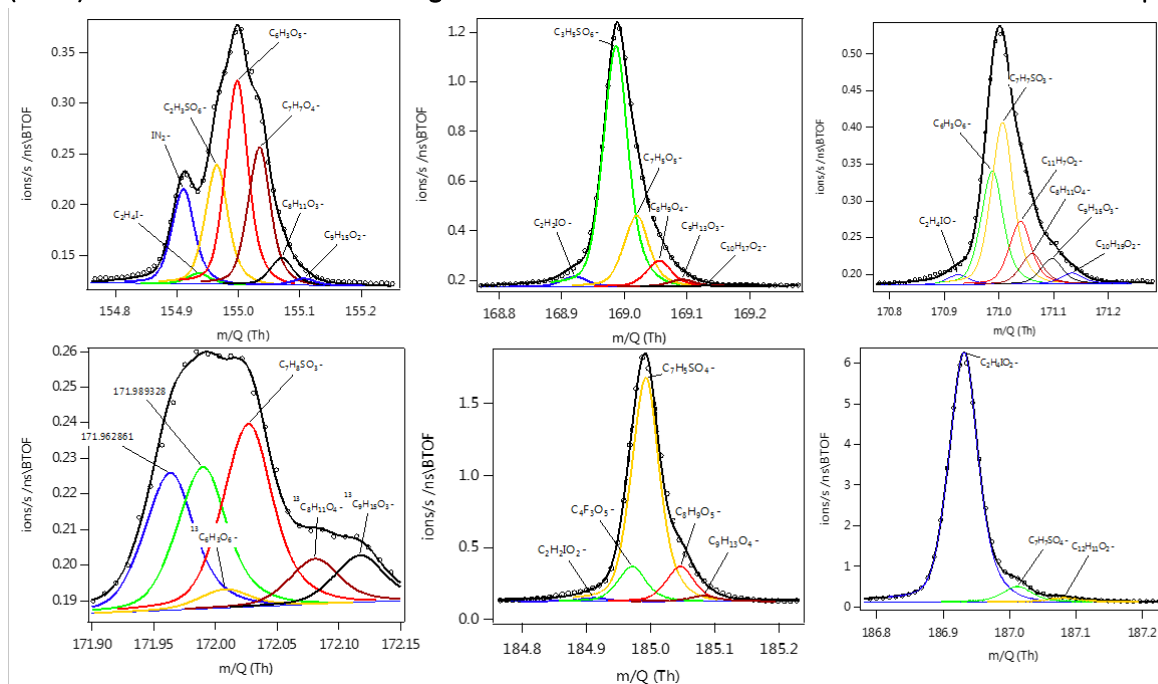


Figure S1. Time series of mass calibrant error in ppm I^- (green), I^{3-} (grey) PFPA (blue) and PFPA dimer (black) throughout the campaign.



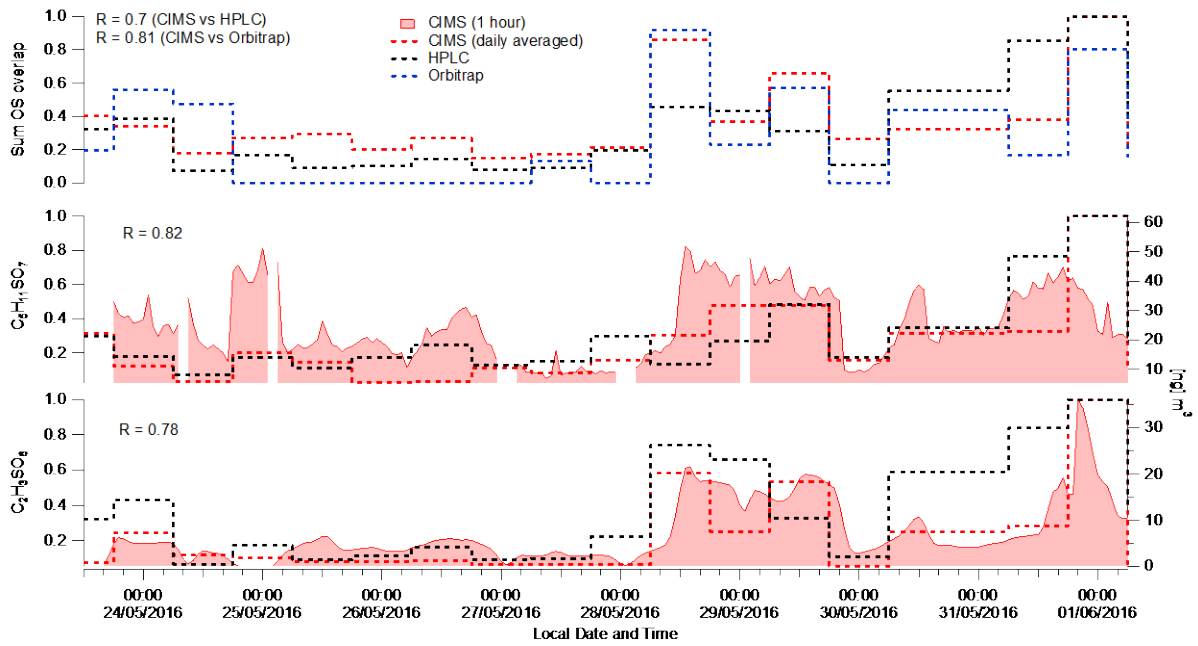


Figure S3. Comparison of CIMS SCO data with HPLC and Orbitrap filter measurements. The data represents overlapping measurements of the same species. CIMS desorption counts were averaged during each filter collection period.

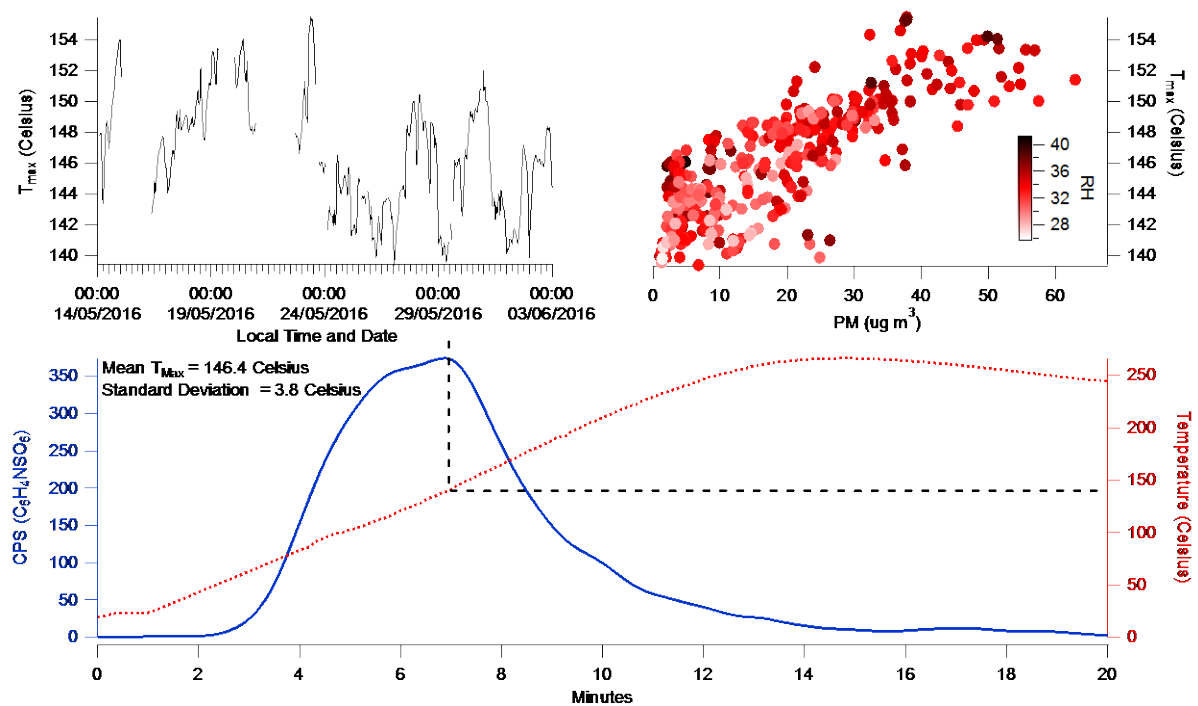


Figure S4. NP OS average campaign thermogram and T_{max} estimation and variation. A correlation is observed between T_{max} and temperature but not RH (top right window)