



Supplement of

Secondary organic aerosol formation from the oxidation of decamethylcyclopentasiloxane at atmospherically relevant OH concentrations

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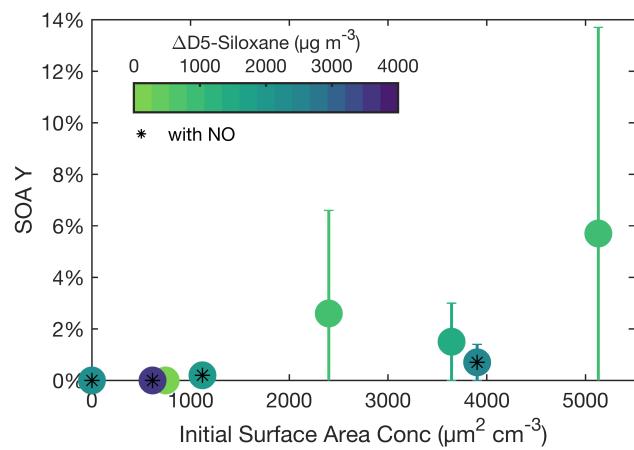


Figure S1. SOA yield at the end of experiments C1–8 with the associated uncertainty is shown as a function of the initial seed surface area concentration. The color of each point represents the amount of D5 that reacted throughout the entire experiment. Experiments with NO_x present include a black asterisk in their center.

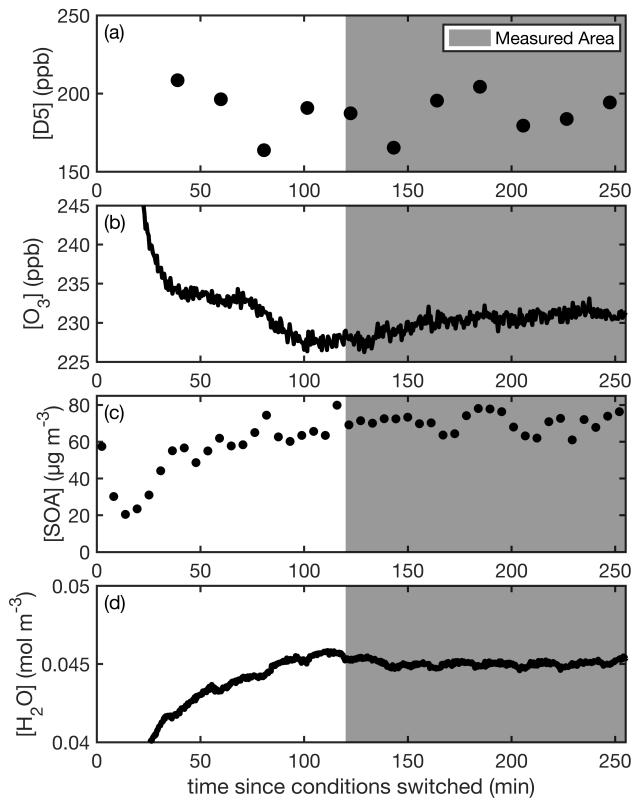


Figure S2. For experiment F11, the stability of the CPOT reactor as shown by measurements at the output of the CPOT of the (a) concentration of D5, (b) concentration of ozone, (c) concentration of SOA, and (d) absolute humidity in the reactor. Data were collected beginning 2 h after conditions were switched. Data prior to 30 min are outside the chosen y-axis limits for panels a, b, and d.

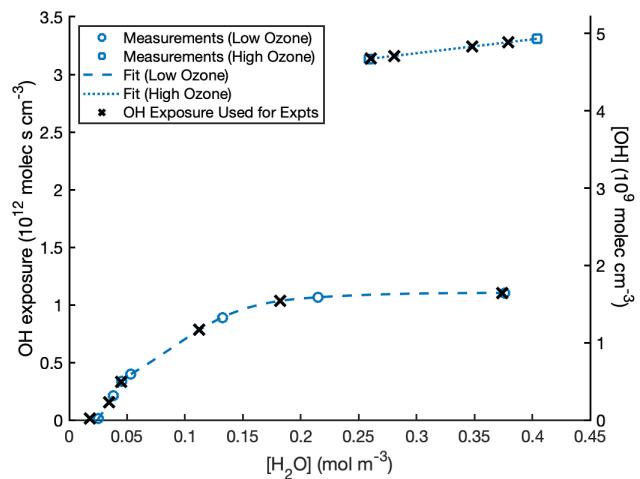


Figure S3. Determination of the OH exposure and, correspondingly, of the OH concentration of experiments F9–19. Blue circles and squares are the measurements of the OH exposure using the reaction of SO_2 for the low and high O_3 cases, respectively. The dashed and dotted lines are the fits to these measurements and the black Xs are the corresponding OH exposure values used for F9–19.