Supporting Information

High-Resolution Mass Spectrometry and Molecular Characterization of Aqueous Photochemistry Products of Common Types of Secondary Organic Aerosols

Dian E. Romonosky, Alexander Laskin, Julia Laskin, and Sergey A. Nizkorodov^{1,*}

- 1. Department of Chemistry, University of California, Irvine, California 92697, USA.
- 2. Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, Washington 99352, USA.
- 3. Physical Sciences Division, Pacific Northwest National Laboratory, Richland, Washington 99352, USA.

^{*} Corresponding author phone and e-mail: 949-824-1262, nizkorod@uci.edu

Figure S1: Reconstructed mass spectra for all the unphotolyzed O₃ SOA samples (before photolysis) recorded in this work. The x-axis corresponds to the molecular weight of the neutral SOA compounds.

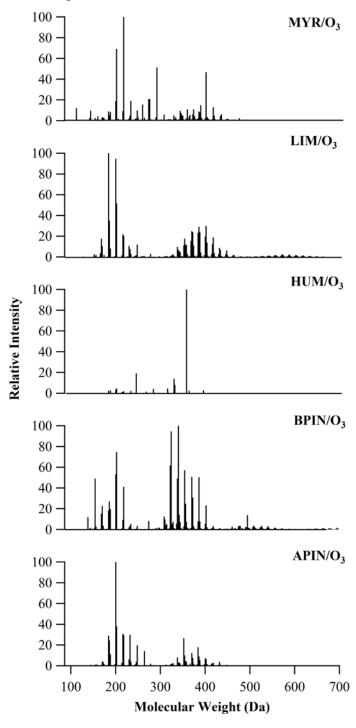
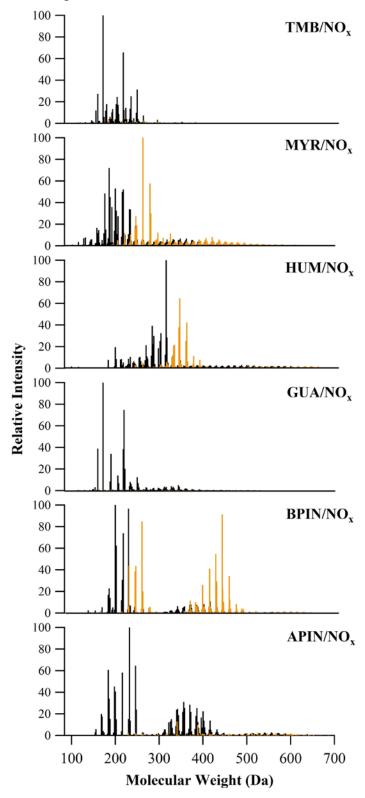


Figure S2. Reconstructed mass spectra for all the unphotolyzed NO_x SOA samples (before photolysis) recorded in this work. The x-axis corresponds to the molecular weight of the neutral SOA compounds.



Figures S3. Multiple panels below show the mass spectra of all the SOA solutions before (black) and after (green) 1 h of photolysis. The difference (red, after - before) is representative of the change that occurred during photolysis the time.

