

## Supporting Information

### Light Intensity and Light Source Influence on Secondary Organic Aerosol Formation for the *m*-Xylene/NO<sub>x</sub> Photooxidation System

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This document consists three pages with two additional figures from SAPR07 modeled results. Figure S1 contains additional formation results for select species. Figure S2 compares SAPRC07 modeled results to actual experimental results for several gas phase species.

Figure S1. SAPRC07 results for HO<sub>2</sub>, RO<sub>2</sub> and OH for the four light conditions; argon arc lamp (ARC) at k<sub>1</sub> of 0.26 min<sup>-1</sup> and 0.09 min<sup>-1</sup>, black lights (BL) at a k<sub>1</sub> of 0.13 min<sup>-1</sup> and 0.09 min<sup>-1</sup>.

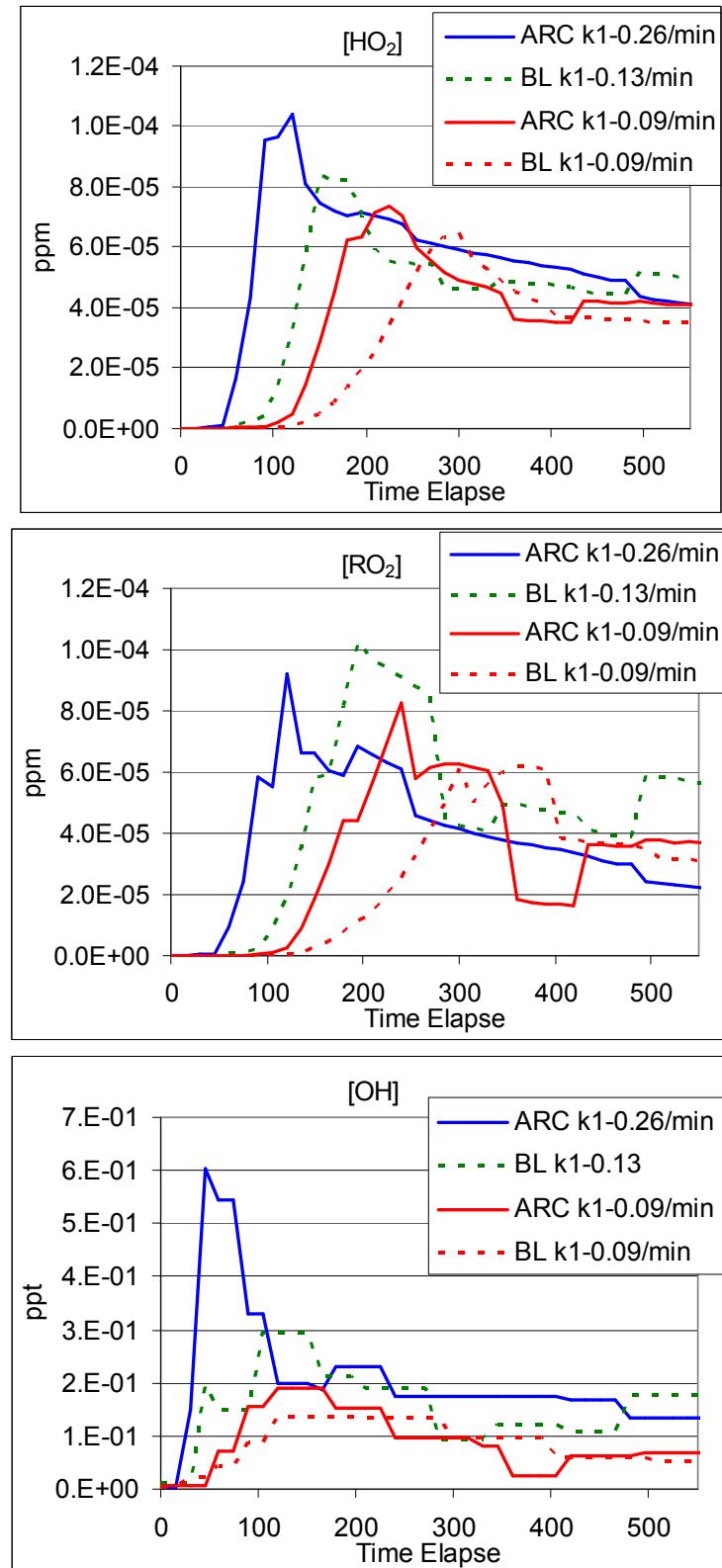


Figure S2. SAPRC07 gas species results compared to experimental results for the four light conditions; argon arc lamp (ARC) at  $k_1$  of  $0.26 \text{ min}^{-1}$  and  $0.09 \text{ min}^{-1}$ , black lights (BL) at a  $k_1$  of  $0.13 \text{ min}^{-1}$  and  $0.09 \text{ min}^{-1}$ .

