

Supplementary Figures

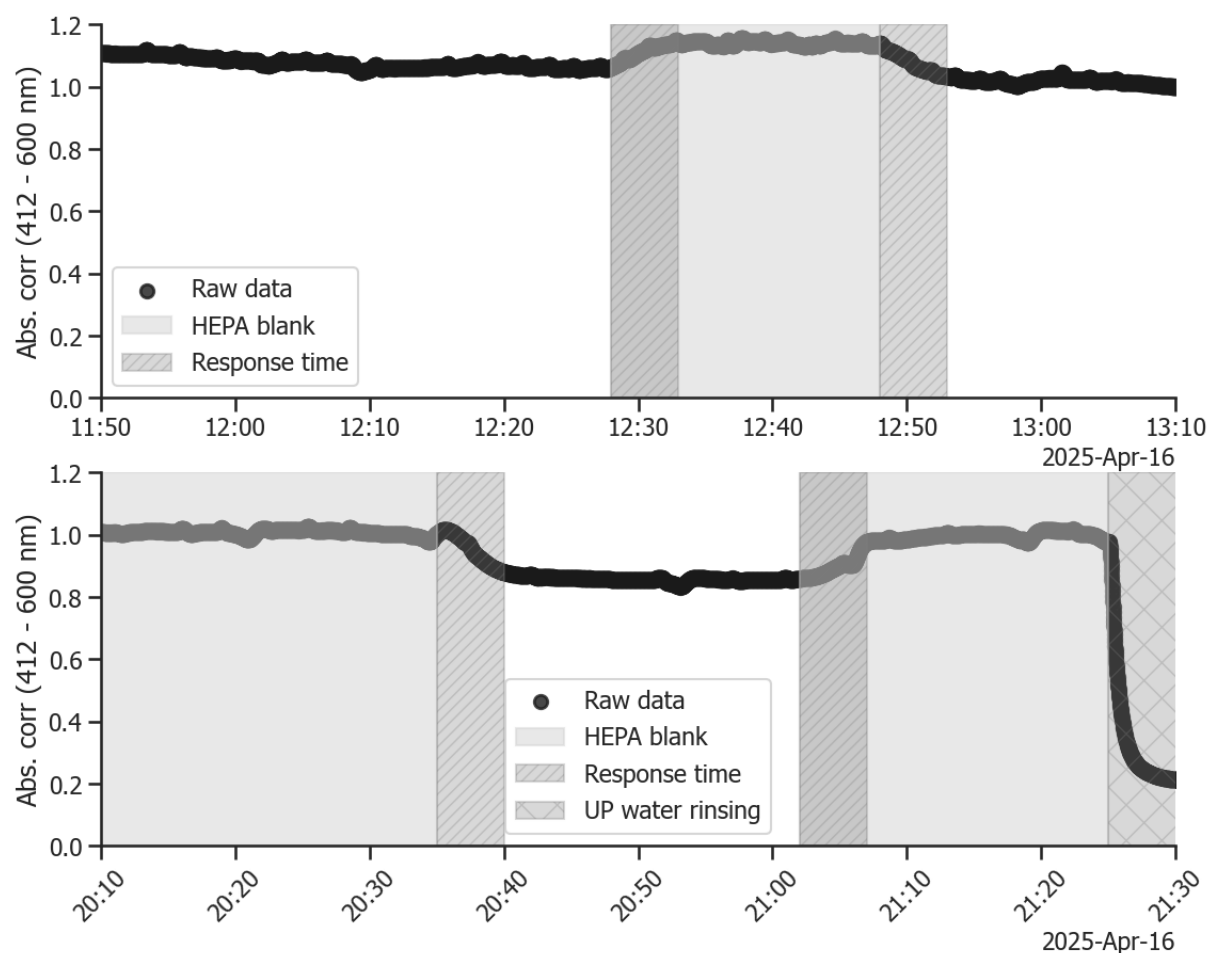


Figure S1. Time-resolved raw absorbance data for two measurements sequences, as an illustration. The points represent 1 Hz measurements at 412 nm, corrected using the 600 nm baseline. Grey shaded areas indicate blank measurements (HEPA-filtered air sampling). Grey hatched areas correspond to the system response time (5 min), and grey cross-hatched area indicate the start of ultrapure (UP) water rinsing at the end of the experiment. Absorbance does not return to zero during the water rinsing phase shown because DTNB is still being injected into the system.

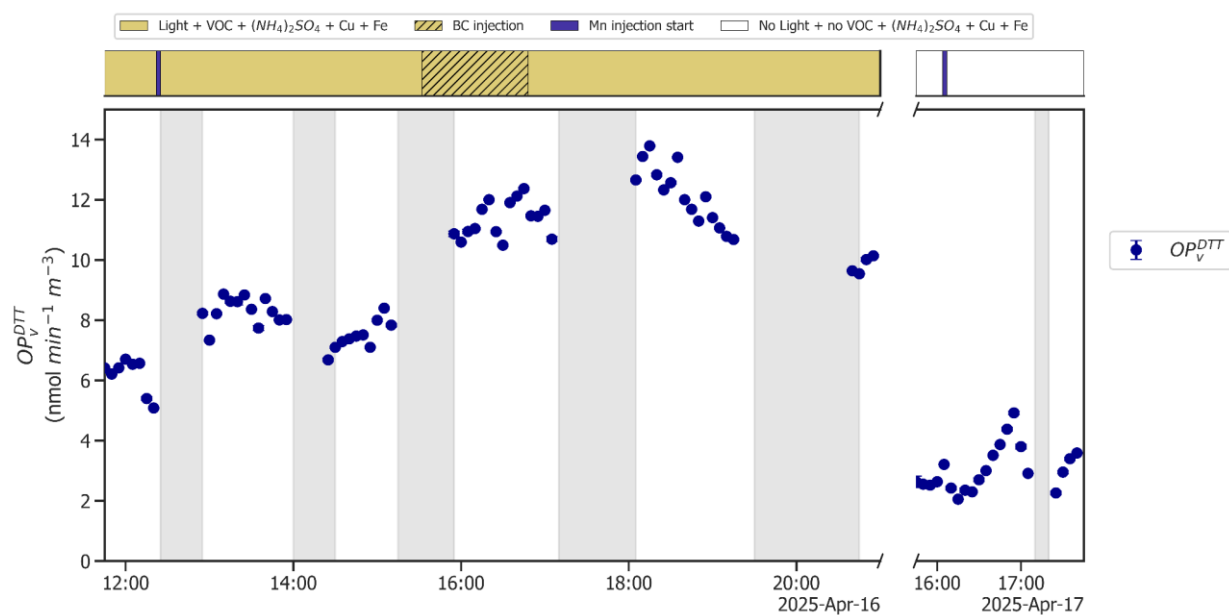


Figure S2. Time-resolved OP_v^{DTT} of simulated atmospheres in the CESAM chamber over two consecutive days: photochemical experiment (left) and non-photochemical experiment (right), separated by slashes. Grey shaded areas indicate OP_v^{DTT} blank measurements (HEPA-filtered air sampling). Data points represent 5-min averages with error bars. Error bars represent the 95% confidence interval of 5-min averaged value, computed from 1 Hz measurements using the t-student test.