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Photooxidation of cyclohexene in the presence of SO_2: SOA yield and chemical composition

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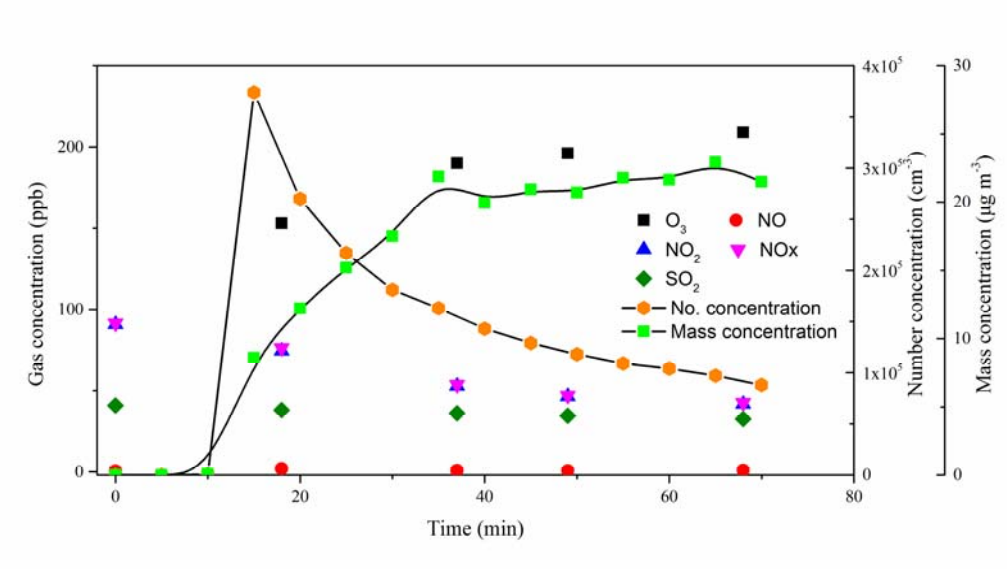

Figure S1: Typical profiles of the gas and particle phases (SOA) in the experiments.

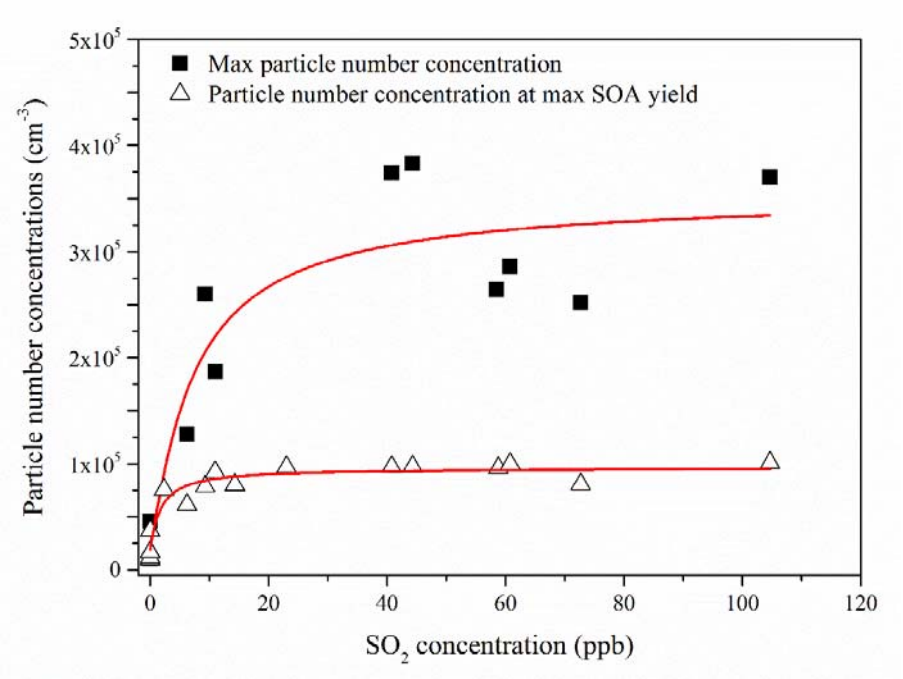

Figure S2: The maximum particle number concentrations and the particle number concentrations at the maximum SOA yield particle number concentrations for cyclohexene/NOx/SO_2 system at different initial SO_2 concentrations.

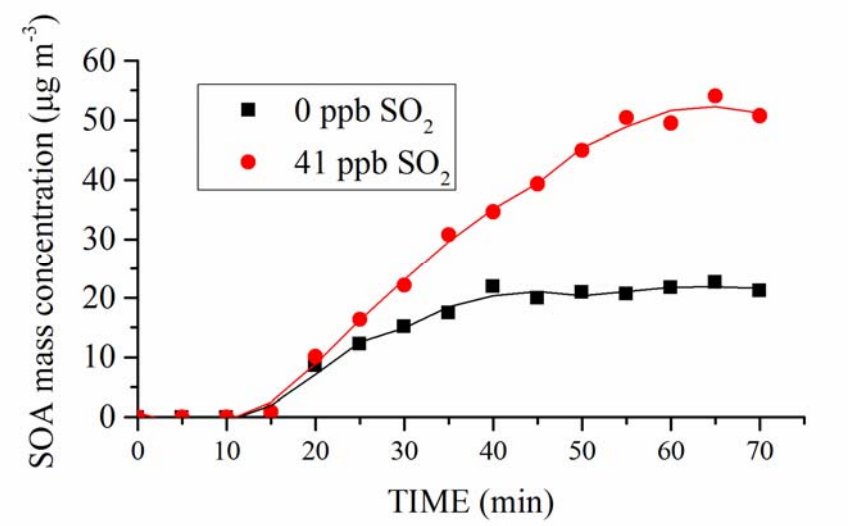

Figure S3: Changes of SOA mass concentrations with time for two different initial SO_2 concentration, 0 and 41 ppb.

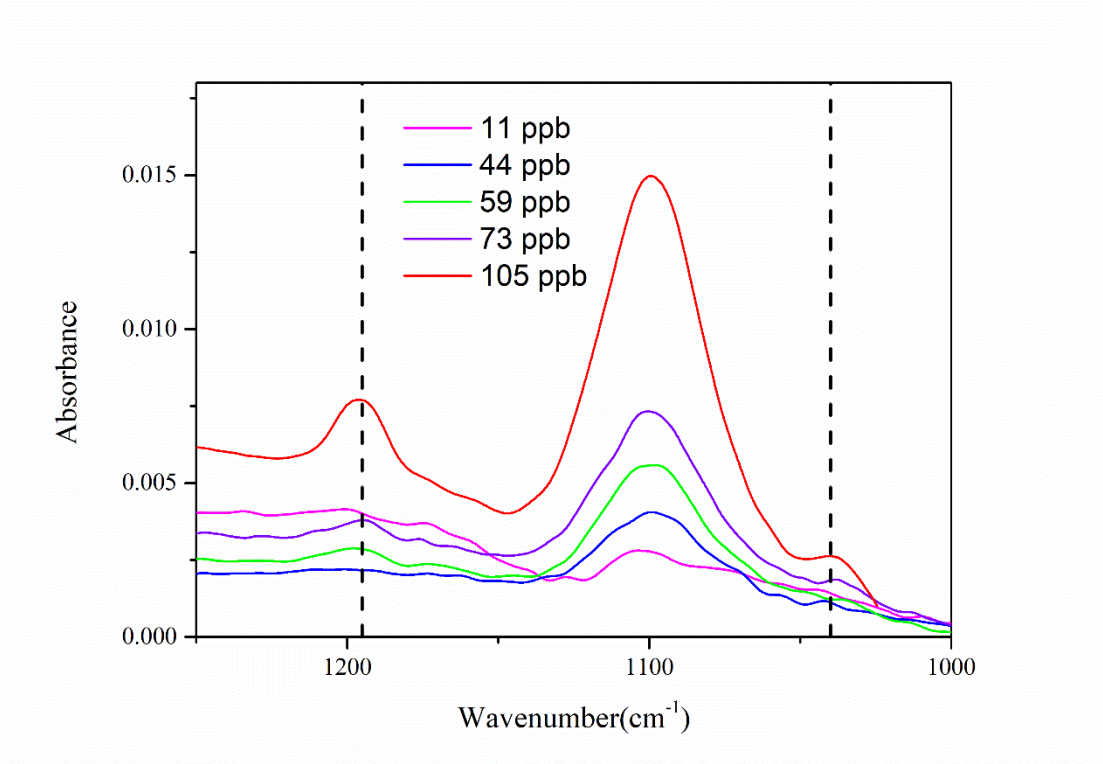

Figure S4: The change of the two peaks at 1195 and 1040 cm^{-1} at different initial SO_2 concentrations.

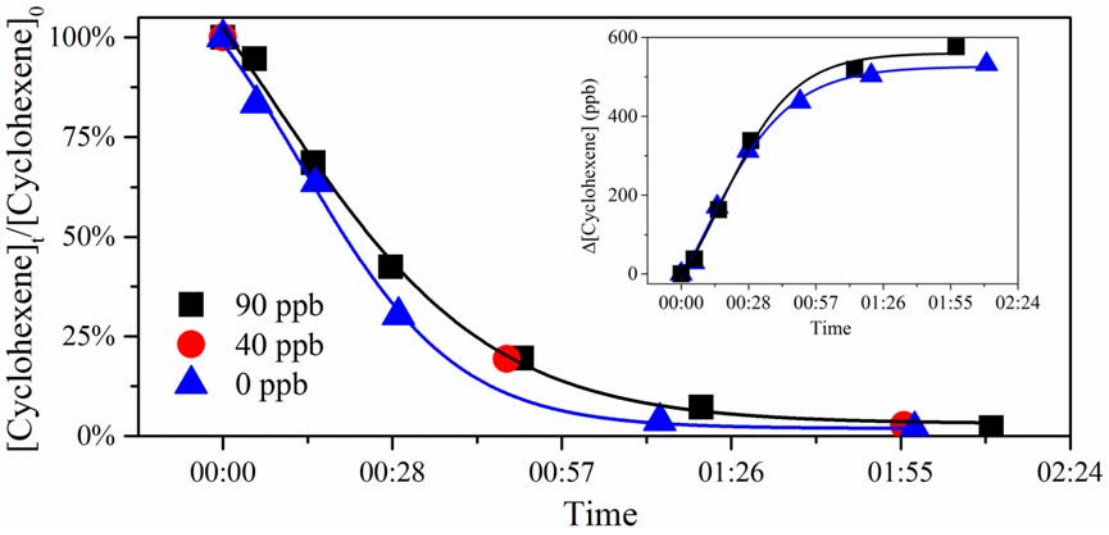

Figure S5: Change of cyclohexene concentration with time at different initial SO_2 concentrations. The inner plot shows the amount of consumed cyclohexene with time.

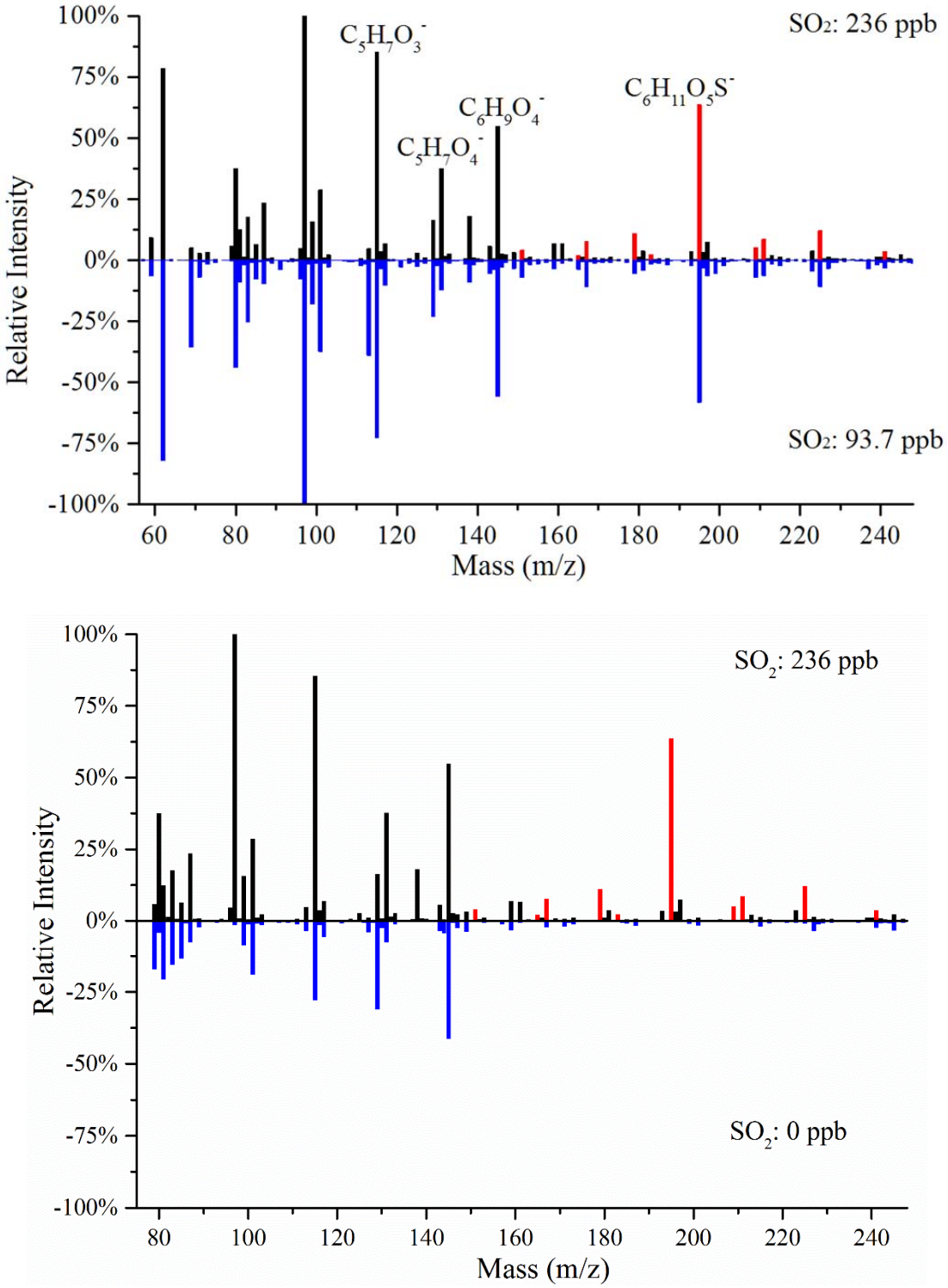

Figure S6: Comparison of SOA Exactive-Orbitrap MS spectra with different initial SO_2 concentrations.