Supplement of

Effect of salt seed particle surface area, composition and phase on secondary organic aerosol mass yields in oxidation flow reactors

Erik Ahlberg et al.

Correspondence to: Erik Ahlberg (erik.ahlberg@nuclear.lu.se)

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.
Figure S1. Collection efficiency (CE) of the AMS as a function of SOA mass fraction, calculated using the mixture density and SMPS volume concentration. The collection efficiency of ammonium sulphate increases up to a mass fraction of ~0.4. Above 0.4 the CE of ammonium nitrate seems to decrease. This is most likely due to the formation of pure SOA particles. Nucleated SOA particles are smaller and have a lower CE.

Figure S2. Example of how the volume size distribution changed during an experiment, from purely nucleated particles consisting of only SOA, through a mixture of nucleated and seed particles, to purely seed particles with condensed organics. Y axis is normalized so the differences in Dp are more clear.