Supplement of Atmos. Chem. Phys., 19, 2701–2712, 2019 https://doi.org/10.5194/acp-19-2701-2019-supplement © Author(s) 2019. This work is distributed under the Creative Commons Attribution 4.0 License.





## 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.

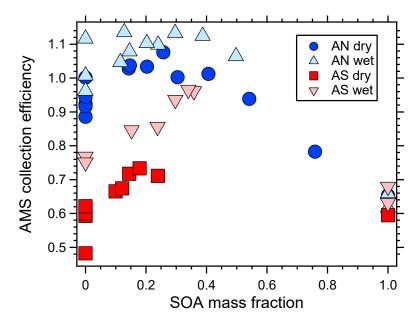


Figure S1. Collection efficiency (CE) of the AMS as a function of SOA mass fraction, calculated using the mixture density and SMPS volume concentration. The collection efficiency of ammonium sulphate increases up to a mass fraction of ~0.4. Above 0.4 the CE of ammonium nitrate seems to decrease. This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

5

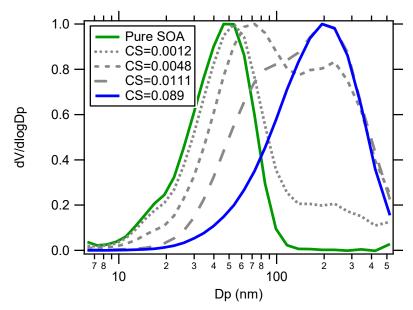


Figure S2. Example of how the volume size distribution changed during and experiment, from purely nucleated particles consisting of only SOA, through a mixture of nucleated and seed particles, to purely seed particles with condensed organics. Y axis is normalized so the differences in Dp are more clear.