



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.

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