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Supplement of

A broad supersaturation scanning (BS2) approach for rapid measurement of aerosol particle hygroscopicity and cloud condensation nuclei activity

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**Figure S1:** Critical water vapor supersaturation for the activation of aerosol particles with different dry diameter and chemical composition. The color bar indicates the $\kappa$ values. The open circles are references to water droplets.
**Figure S2:** Critical water vapor supersaturation for the activation of aerosol particles with different dry diameter and $\kappa$ of 0.05.