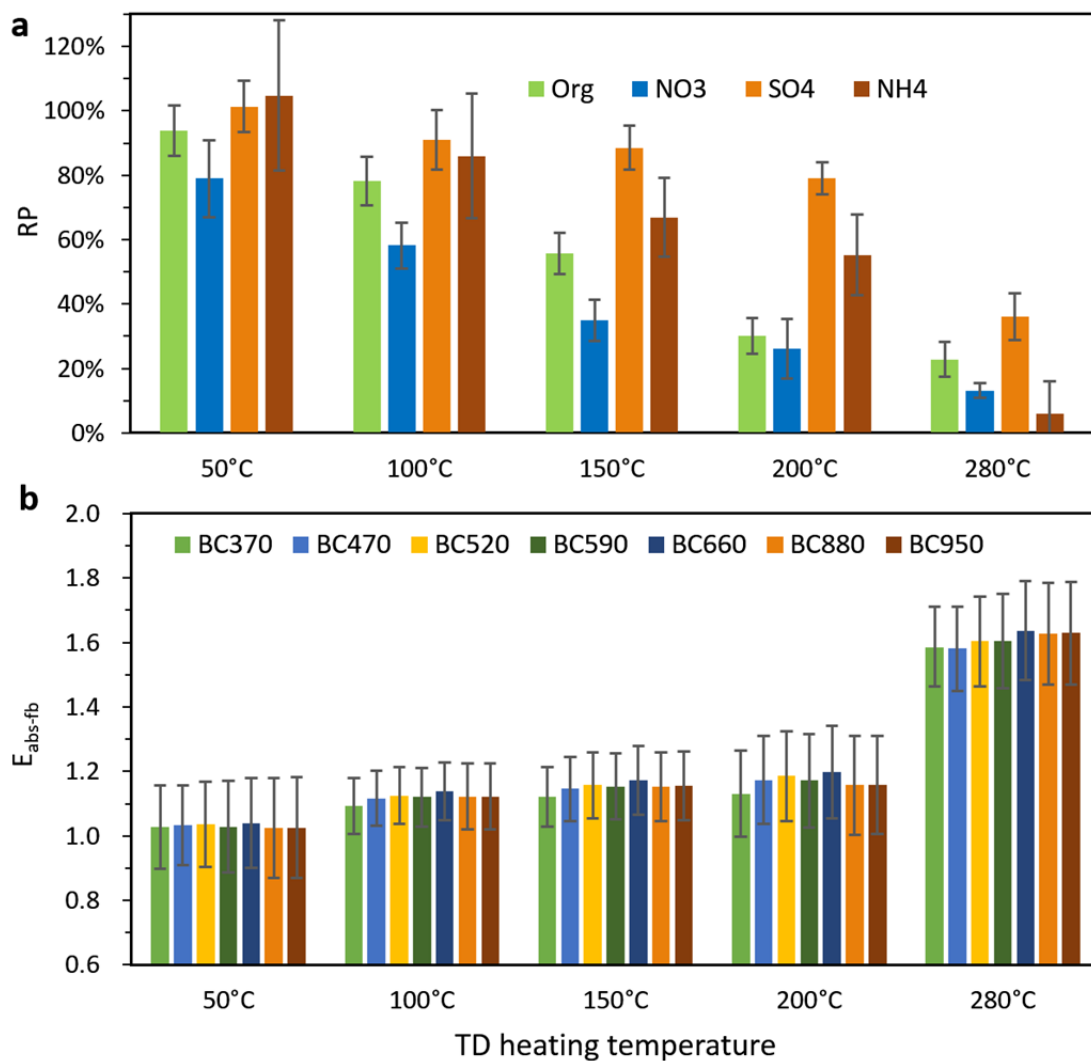


Fig. 3 Temporal variation of mass concentration for a) non-refractory PM1 species (organics (Org), nitrate (NO₃), sulfate (SO₄), ammonium (NH₄) and chloride (Chl)); b) equivalent BC (EBC) at seven wavelengths (370nm, 470nm, 520nm, 590nm, 660nm, 880nm, 950nm)

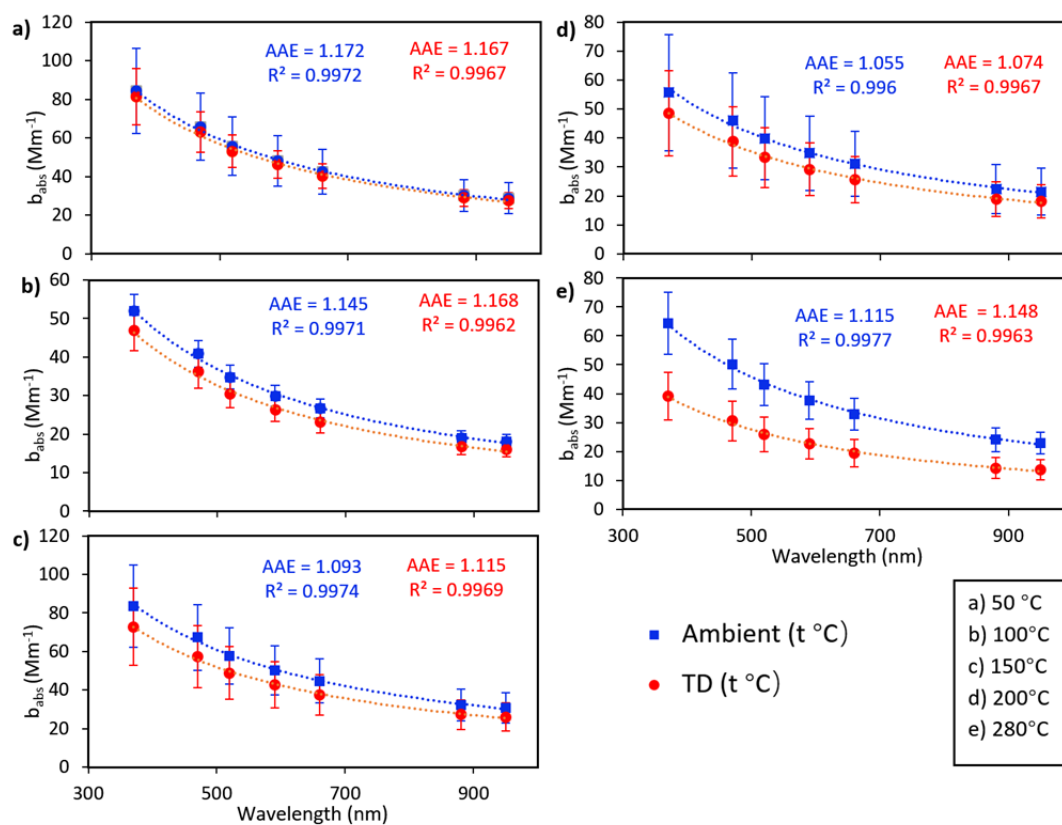


Fig. 4 a) Remaining percentage (*RP*) of four aerosol fractions (i.e., organics, nitrate, sulfate and ammonium), and b) E_{abs-fb} at seven wavelengths under different TD heating temperature; Error bar represent the standard error (SE).



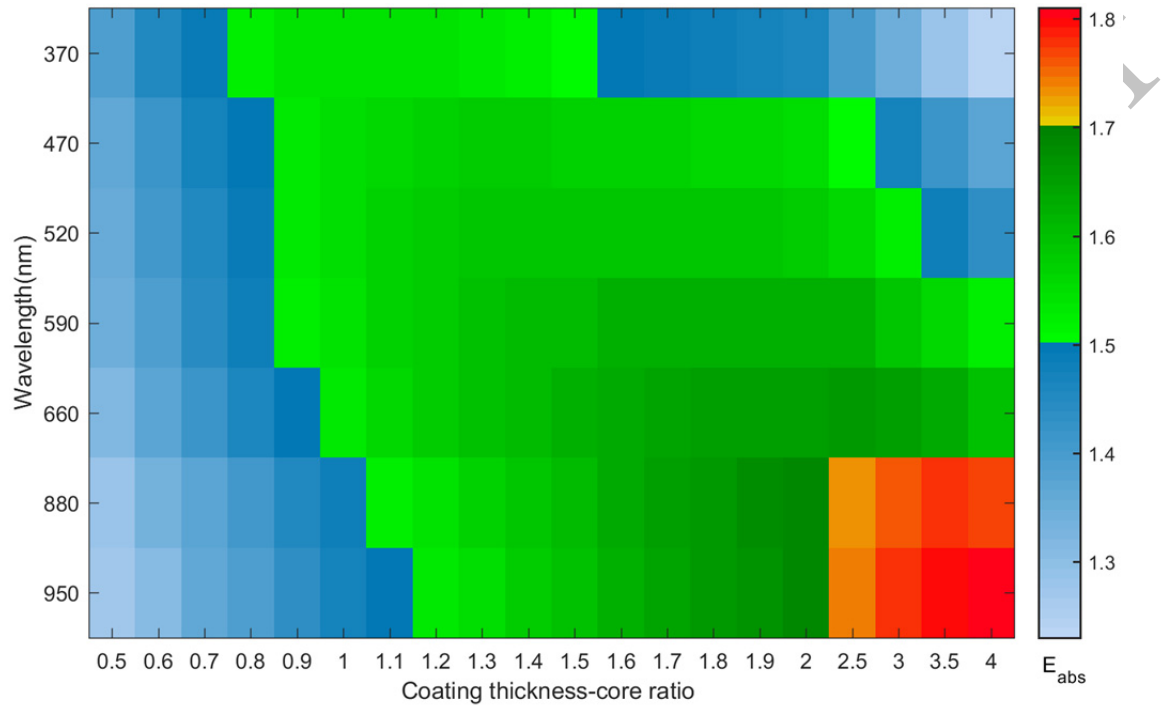
ACC

Fig. 5 Light absorption coefficient (b_{abs}) and fitted AAE of heated (T temperature) and corresponding ambient aerosol



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Fig. 6 Assuming 20% coatings remained, a) E_{abs} calculated by Mie theory based on different coating fraction. Green zone was targeted area for Mie calculation in well agreement with field measurement.



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