

## Supplemental information for:

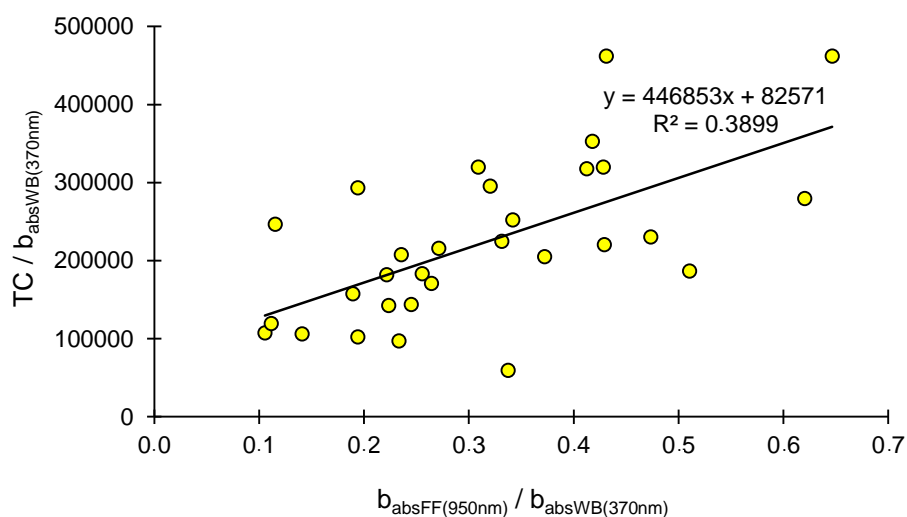
### On the relationship of biogenic primary and secondary organic aerosol tracer compounds on the aethalometer model parameters

Johan Martinsson<sup>1\*</sup>, Moa K. Sporre<sup>2</sup>, Guillaume Pédehontaa-Hiaa<sup>1</sup>, Hafiz Abdul Azeem<sup>3</sup>

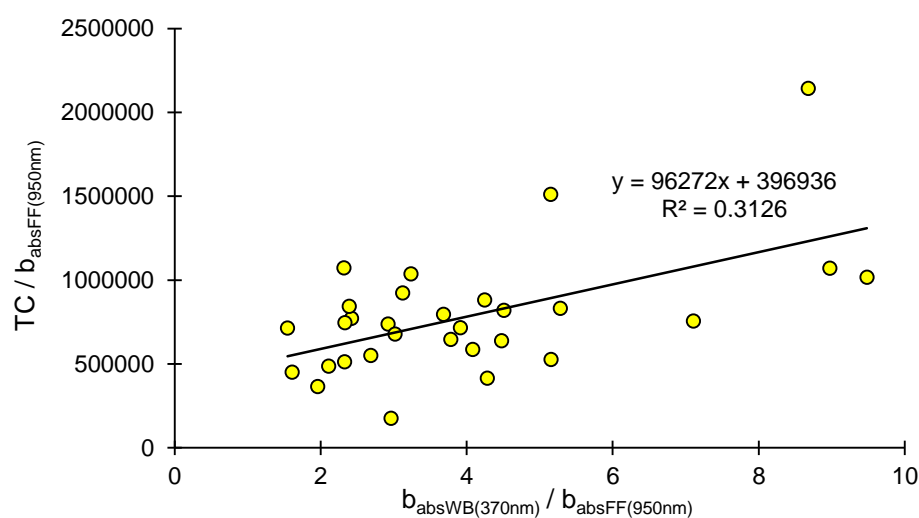
<sup>1</sup>Medical Radiation Physics, Department of Translational Medicine, Lund University, Box 118, SE-22100, Malmö Sweden

<sup>2</sup>Division of Nuclear Physics, Lund University, Box 118, SE-22100, Lund Sweden

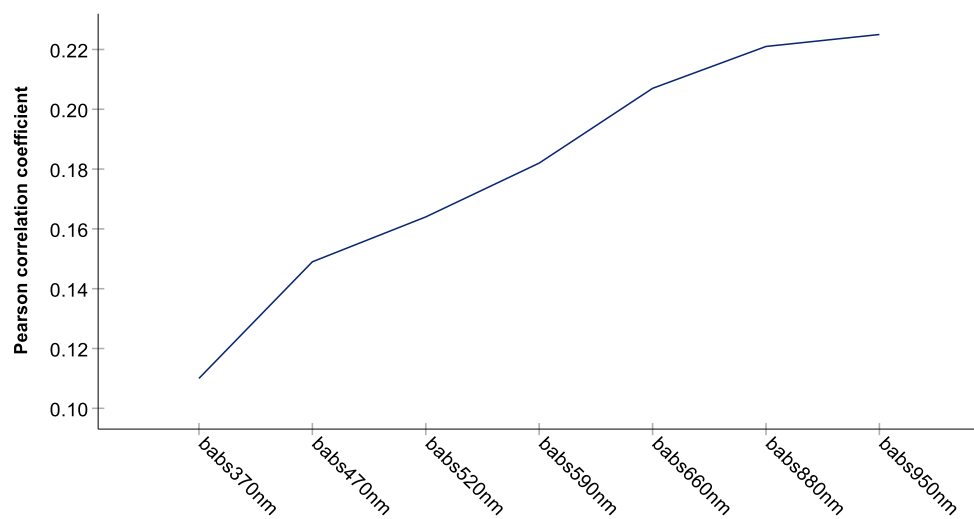
<sup>3</sup>Centre for Analysis and Synthesis, Department of Chemistry, Lund University, Box 118, SE-22100, Lund Sweden



**Figure S1.** Linear regression model fit derived from Eq. 5. The slope corresponds to the  $C_1$  parameter.



**Figure S2.** Linear regression model fit derived from Eq. 6. The slope corresponds to the  $C_2$  parameter.



**Figure S3.** Variation of the Pearson correlation coefficient for MBTCA and the absorption coefficients ( $b_{\text{abs}}$ ) from the seven wavelengths of the aethalometer.