Supplementary Information for

Photo-oxidation of aromatic hydrocarbons produces low volatility organic compounds

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This PDF file includes:

Figs. S1 to S3

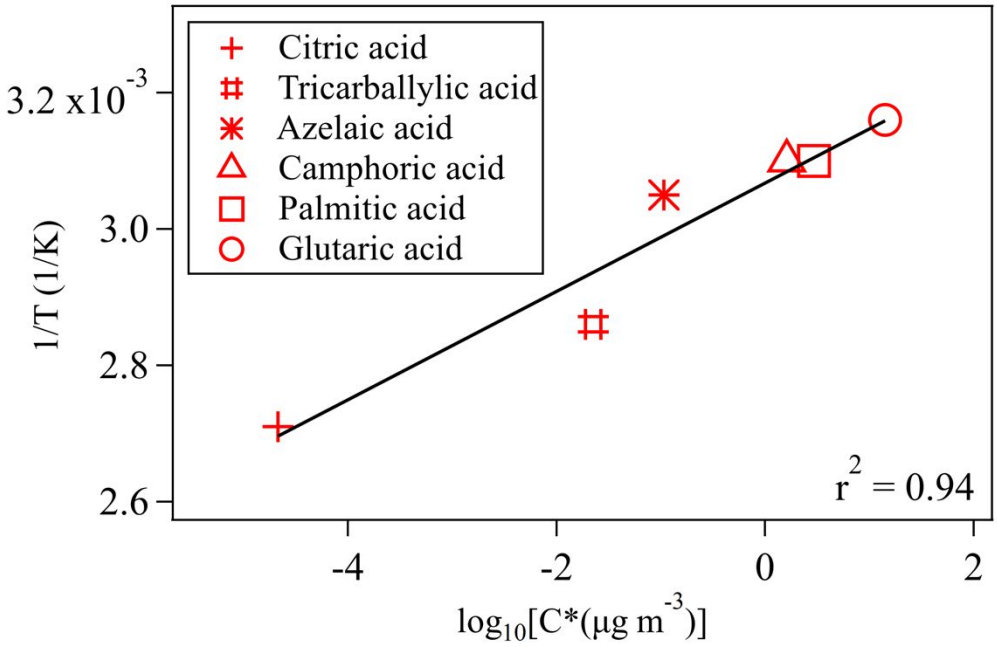

Figure S1. Correlation of inverse maximum desorption temperature ($1/T_{max}$) and the saturation concentration (log C^*) of a set of carboxylic acids used to calibrate volatility measurements in the FIGAERO. Great correlation between these two parameters is presented by a linear fitting (black line).

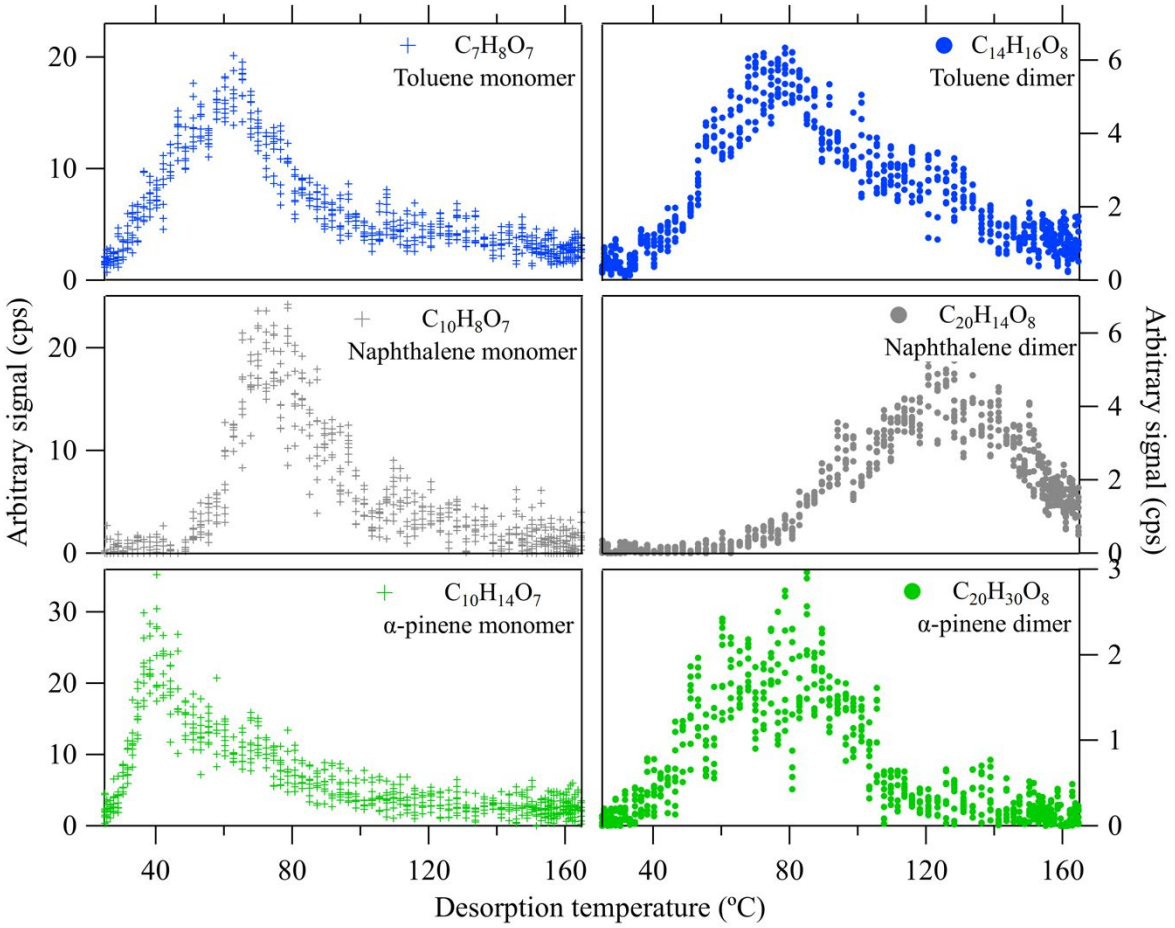

Figure S2. Example of thermograms of representative particle-phase products. Monomers (crosses) and dimers (dots) of toluene-, naphthalene- and α-pinene-derived oxidation products are colored in blue, gray and green, respectively.

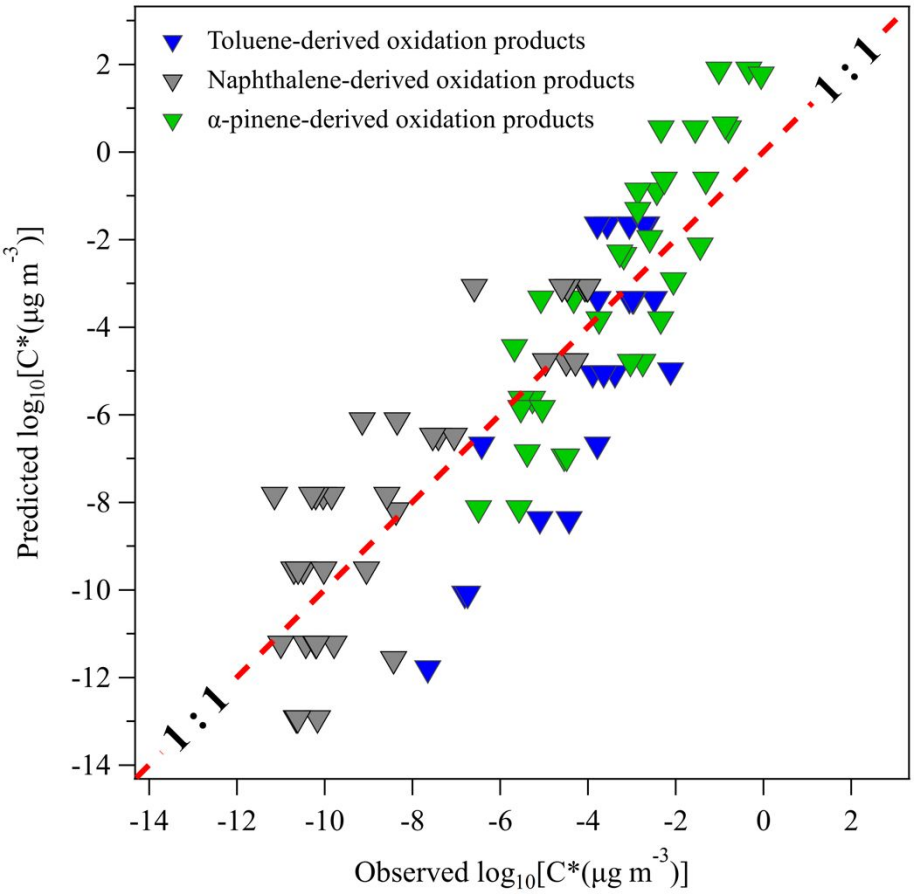

Figure S3. Volatility of oxidation products measured with FIGAERO vs predicted by the VBS parameterizations. Toluene-, naphthalene- and α-pinene-derived oxidation products are colored in blue, gray and green, respectively. The good correlation (r^2 of 0.77) verifies the consistency between direct FIGAERO volatility measurements and VBS parameterizations.