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*Supplement of*

## **Volatility of organic aerosol and its components in the megacity of Paris**

**Andrea Paciga et al.**

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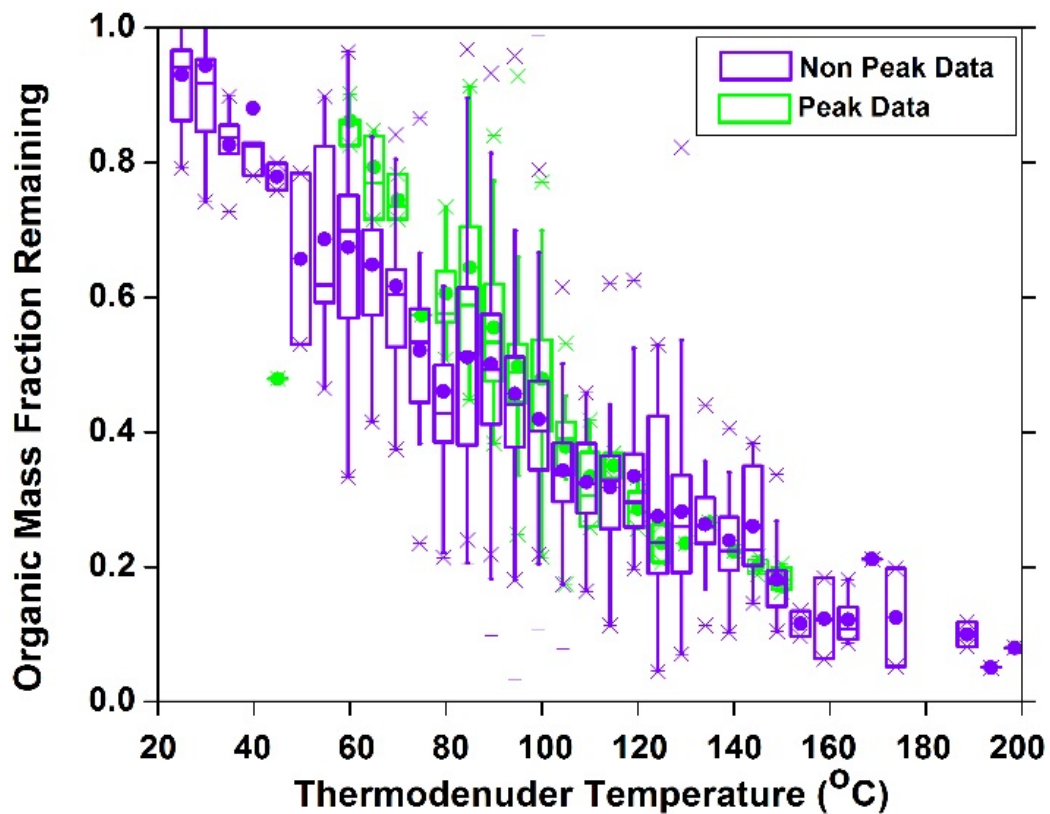
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**Table S1.** Estimated volatility distributions for the OA and the PMF factors.<sup>a</sup>

<i>C</i> *									
OA Type	10 <sup>-7</sup>	10 <sup>-6</sup>	10 <sup>-5</sup>	10 <sup>-4</sup>	10 <sup>-3</sup>	10 <sup>-2</sup>	10 <sup>-1</sup>	1	10
<b>Summer 2009</b>									
HOA	-	-	-	0.13	0.14	0.08	0.02	0.06	0.57
COA	-	-	0.13	0.15	0.07	0.2	0.08	0.37	-
MOA	-	-	-	0.03	0.03	0.05	0.28	0.42	0.19
SV-OOA	-	-	-	0.06	0.14	0.15	0.13	0.18	0.34
LV-OOA	0.2	0.24	0.28	0.25	0.03	-	-	-	-
<b>Winter 2010</b>									
HOA	-	-	-	0.11	0.09	0.07	0.12	0.11	0.5
COA	-	0.12	0.11	0.14	0.42	0.11	0.1	-	-
BBOA	-	-	-	0.2	0.09	0.08	0.13	0.09	0.41
OOA	-	-	-	0.3	0.09	0.07	0.09	0.1	0.35

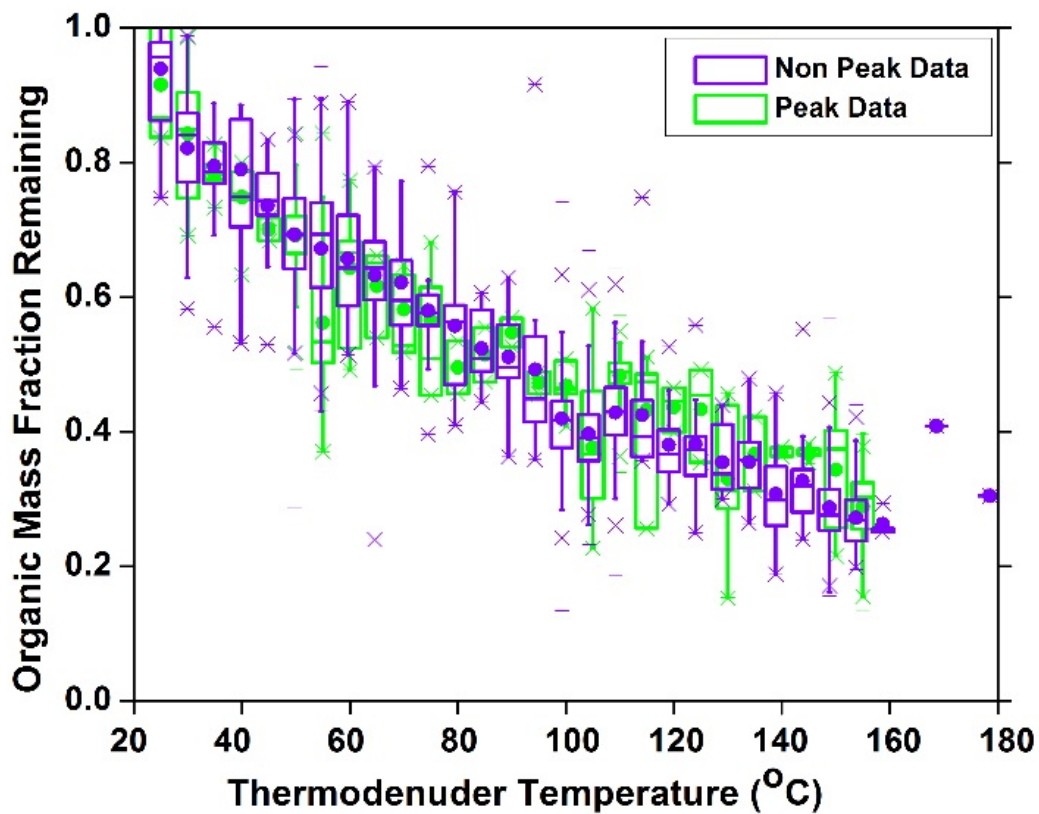
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<sup>a</sup> Expressed as fractions of the OA with  $C^* \leq 10 \mu\text{g m}^{-3}$ .



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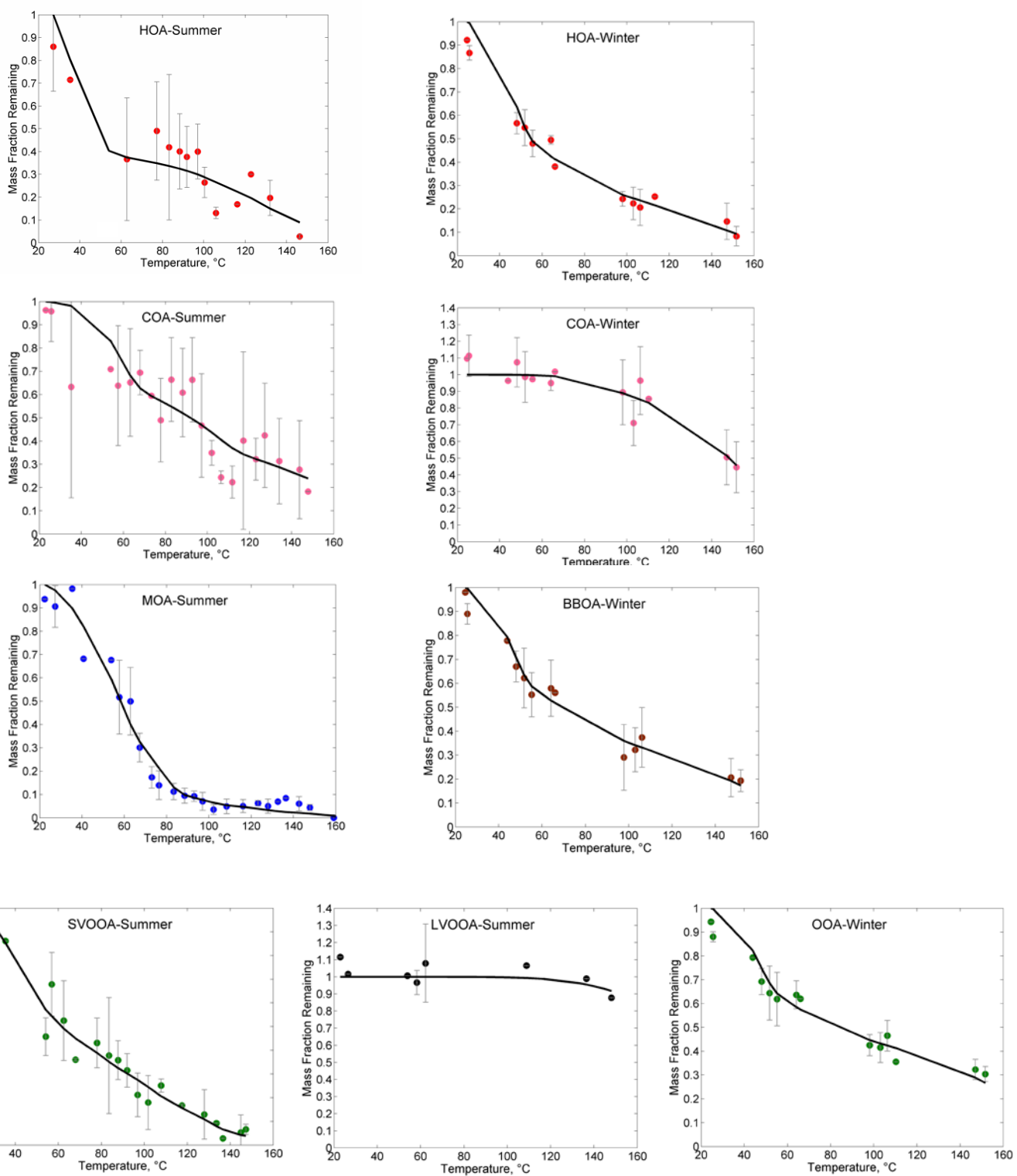
**Figure S1.** Organic mass fraction remaining (MFR) as a function of TD temperature for ambient concentration greater than  $1.5 \mu\text{g m}^{-3}$  (peak data – green) and concentrations lower than  $1.5 \mu\text{g m}^{-3}$  (non peak data – purple) for the summer 2009 campaign.



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**Figure S2.** Organic mass fraction remaining as a function of TD temperature for ambient concentration greater than  $4.5 \mu\text{g m}^{-3}$  (peak data – green squares) and concentrations lower than  $4.5 \mu\text{g m}^{-3}$  (non peak data – purple circles) for the winter 2010 campaign.

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**Figure S3.** Corrected thermograms along with the error bars representing the standard deviation of the data, with best-fit volatility distributions (solid line) for PMF factors. A few points in the LV-OOA summer graph with very high uncertainties are not shown.

