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Atmospheric Measurement Techniques Discussions

Interactive comment on "Characterization of a thermodenuder- particle beam mass spectrometer system for the study of organic aerosol volatility and composition" *by* A. E. Faulhaber et al.

Anonymous Referee #2

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Organic gas particle partitioning is very important to understand the fate of organic material (primary and secondary organic aerosol) in the atmosphere. As recently shown by Robinson, there are still many open questions. The technique described in this manuscript (= combining a thermodenuder with an aerosol mass spectrometer) is an interesting new approach which may help to get information on gas/particle partitioning in a relatively simple way. The authors show that also in mixed systems (for example SOA) an interpretation of the results is possible. Experimental part and evaluation of the data are described clearly. Possibilities but also limitations of the technique are discussed in detail. To my opinion the paper can be published mainly as it is. Some minor remarks are: p5: the used CPC probably is a 3010 (not 310) The flow rate into

the MS should be given An explanation for the 16K difference between Tdes and Tinfl would be interesting Ev. Fig.5 can be removed, as all information is also included in Fig. 6.

Interactive comment on Atmos. Meas. Tech. Discuss., 1, 21, 2008.

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Interactive Comment