

Interactive comment on “Isoprene oxidation products are a significant atmospheric aerosol component” by S. N. Matsunaga et al.

S. N. Matsunaga et al.

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Thank you for your comments.

As mentioned in response to the reviewer #3, the collection efficiency has been double checked in the experiment at Duke Forest during the CELTIC campaign. We will add more detailed information about the measurement technique. Uncertainty caused the break through of the compounds (around 10% or less of gas phase) is considered in the error estimation. The collection efficiency of the denuder tube has been found not to be changed by relative humidity. We agree with the reviewer #2 at the point that the scatter in Figure 3 is quite large and can make a large uncertainty; however, this is not the largest uncertain factor. We believe uncertainty caused by the estimate of aerosol partition ratio should be reduced, however, we also think this is one of the best

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estimates at this time. This uncertainty is included in the results presented in Table 1.

For other specific comments, we will add descriptions which can provide all information requested by the reviewer #2 in the revised version.

Sou Matsunaga

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11143, 2005.

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