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Interactive comment on “Aqueous-phase ozonolysis of methacrolein and methyl vinyl ketone: a potentially important source of atmospheric aqueous oxidants” by Z. M. Chen et al.

Z. M. Chen et al.

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Thanks for the constructive comments and your effort. Here are our responses to the comments:

(1) Compare the ozonolysis with typical aqueous phase ozone concentrations to the oxidation by radical such as OH and NO₃ in aqueous solution.

This is a valid point. The comparison is very useful to better access the aqueous-phase chemistry of isoprene and its oxidation products. However, there are not enough studies about the oxidation of isoprene and its oxidation products by OH and NO₃ in

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aqueous solution. This is something we are also interested in and intend to study further. Unfortunately, we have not carried out such experiments so far.

(2) Abstract, line 18: The last sentence of the abstract is difficult to understand, please clarify.

This sentence is modified to: The formation of oxidants in the aqueous-phase ozonolysis of MAC and MVK can lead to substantial aerosol formation from the aqueous-phase acid-catalyzed reaction of H₂O₂ with isoprene and its oxidation products, even though there are no other sources of oxidants.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 17599, 2007.

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