

Interactive comment on “Detection of HO₂ by laser-induced fluorescence: calibration and interferences from RO₂ radicals” by H. Fuchs et al.

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We thank Terry Dillon for his comment. Results from the LIF instrument of the MPIC in Mainz demonstrate a similar behavior as the LIF instrument of the Forschungszentrum Jülich (FZJ). The relative detection sensitivities for various RO₂ species tested for the MPIC LIF instrument show larger values than measured for the FZJ LIF instrument, indicating that the strength of the interference of RO₂ radicals on the HO₂ concentration measurements needs to be determined individually for each instrument making use of this technique.

As suggested by T. J. Dillon we will change L13 of the abstract and the second bullet of the conclusion to the specific “small” alkane species tested here (methane and ethane). We agree that there are more extensive studies needed regarding the prob-

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lem of interferences from different RO₂ species. As mentioned in our response to the comments of reviewer 1 we will include a statement about the findings reported by T. J. Dillon on page 1282, line 7.

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