**Interactive comment on** “Recipe for continuous monitoring of total ozone with a precision of around 1 DU applying mid-infrared solar absorption spectra” *by M. Schneider and F. Hase*

**Anonymous Referee #1**

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**General comments**

This manuscript presents a new method for improving the accuracy of total ozone retrieval from FTIR absorption spectra, by simultaneously recovering temperature and ozone. I recommend publishing it in ACP after minor revisions. My major comment concerns the lack of experimental tests of the proposed method.

**Specific comments**

Page 9096, line 16: "As a-priori of O₃". I suppose you mean $^{48}$O₃?

Page 9096, line 21-22: "The spectral signatures of the minor isotopologues of $^{49}$O₃ are
only considered by scaling a climatological profile." What about $^{50}\text{O}_3$ ?

Page 9096, line 27: "The applied temperature data". Do you mean "The a priori temperature data"?

Page 9097, line 2 and 3: why do you use spectroscopic line parameters from 2 different HITRAN databases?

Technical corrections

Page 9095, line 21: remove coma after "x and xa"

Page 9096, line 13: remove coma after "asymmetric"

Page 9103, line 26: add coma after "error small"