

Interactive comment on “The impact of bath gas composition on the calibration of photoacoustic spectrometers with ozone at discrete visible wavelengths spanning the Chappuis band” by Michael I. Cotterell et al.

Anonymous Referee #1

Received and published: 28 January 2019

This manuscript focuses on the improvement of the calibration methodology of photoacoustic spectrometers (PAS). The paper settled some issues demonstrated by some previous studies when O₃ is used as a calibrant, e.g., the uncertainty on the validity at a wavelength of 405 nm, and developed a model to describe the variation in PAS sensitivity with both wavelength and bath gas composition. The data presented in the manuscript is in general of good quality. The conclusions are sound and very useful for the researchers to better calibrate their PAS. The manuscript is very well written and organized and certainly meets the criteria of AMT. There is no more suggestions that I

C1

can provide.

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-409, 2018.

C2