

We greatly appreciate the time and efforts that the Editor spent in guiding the review of our manuscript. The comments are really thoughtful and helpful to improve the quality of our paper. We have addressed each comment below, with the comment in black text, our response and relevant manuscript changes in blue text.

Technical corrections:

Heading, section 2.1: spelling of 'measurement'

Reply: Thanks. We have revised it.

Line 121: 2.1 Overview of the measurement

Line 366. It would be slightly clearer as. "The fitted coefficients are as follows: a is"

Reply: Thanks. We have revised it.

Line 328-329: The fitted coefficients are as follows: a is $0.031 \text{ s}^{-1} \text{ ppb}^{-1}$, b is $0.012 \text{ s}^{-1} \text{ ppb}^{-1}$, c is $1.8 \text{ s}^{-1} \text{ ppb}^{-1}$ and $C_{\text{background}}$ is 1.3 s^{-1} .

With the next file upload request, please include a section "Competing interests" (prior to the Acknowledgements) with the following text: At least one of the (co-)authors is a member of the editorial board of Atmospheric Chemistry and Physics.

Reply: Thanks. We have revised it.

Lines 418-420:

Competing interests

At least one of the (co-)authors is a member of the editorial board of Atmospheric Chemistry and Physics.