

# Reply on Report #1

In the updated manuscript, it is stated in L25 that “dependence on the interferogram size has important implications for NDACC and TCCON retrieval algorithms when applied to low spectral resolution measurements.” Does this imply that this dependence is not relevant for specific low-resolution spectrometers, such as those in the COCCON network? I believe this is not correct based on the findings and I suggest expanding on this dependency and clarify its implications for different measurement setups.

We have rephrased this sentence and mentioned that the COCCON network uses a Norton-Beer apodisation by default (making the findings presented in the paper less relevant for COCCON retrieval strategies).

L37, Would it be relevant to specify the OPD or whether a high-resolution or low-resolution spectrometer was used?. The description states that Figure 1 shows the difference between two measured spectra.

The sentence was rephrased to indicate that Fig1 is about high vs low-resolution spectra obtained from two different instruments. This includes a sentence saying the details on resolutions and OPD can be found in the figure.

On the other hand, if I understand correctly, Figure 2 is simulated, correct?

Correct

## List of changes

- Rephrased L25
- Rephrased L37
- Added “simulated” to the Fig2 caption (similar to the caption of Fig3)