

Responses to the Comments of the Editor

(1) Page 4. The monitors that are used for NO_x actually measure NO_y, because their catalytic convertors are not specific.

This is a good point. We added a sentence explaining the potential interferences to the measurements of such monitors using molybdenum oxide catalysts by other NO_y components together with a reference to the work of Dunlea et al. (2007) for additional information.

Dunlea, E. J., Herndon, S. C., Nelson, D. D., Volkamer, R. M., San Martini, F., Sheehy, P. M., Zahniser, M. S., Shorter, J. H., Wormhoudt, J. C., Lamb, B. K., Allwine, E. J., Gaffney, J. S., Marley, N. A., Grutter, M., Marquez, C., Blanco, S., Cardenas, B., Retama, A., Ramos Villegas, C. R., Kolb, C. E., Molina, L. T., and Molina, M. J.: Evaluation of nitrogen dioxide chemiluminescence monitors in a polluted urban environment. *Atmos. Chem. Phys.*, 7, 2691–2704, 2007.

(2) Page 6. The authors give numbers for sensitivities in ncps, that is not a sensitivity. Sensitivities are in units of ncps per concentration (or mixing ratio). In this case I assume those are ncps/ppbv? Please change that in the several places those appear.

These are indeed in ncps/ppb. We have made the corresponding correction.

(3) Page 6. I think you mean that your calibrator does not substantially change the RH of the air, not "does not make adjustments for the relative humidity".

We have rephrased this rather confusing statement following the editor's suggestion.

(4) Also page 6, you changed the sentence that describes formaldehyde and it looks like you inverted the meaning. I think you mean to say you did exclude formaldehyde, is that correct?

That is correct, the formaldehyde measurements were excluded. We have rewritten this sentence.