

## ***Interactive comment on “Ambient Nitro-Aromatic Compounds – Biomass Burning versus Secondary Formation in rural China” by Christian Mark Garcia Salvador et al.***

**Anonymous Referee #2**

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General. This is an interesting study on the occurrence of nitroaromatic compounds (NAC) in particles which differentiates between biomass burning (BB) and secondary formation (SF) in the city of Dezhou, Shandong province in China in the winter of 2017. The paper combines NAC measurements in the gas- and particle phase with box modelling. Main measurement instrumentation was a Figaero inlet coupled to a Api-ToF-CiIMS operated in iodide cluster ion mode.

Overall, this is a very interesting study extending our knowledge on NACs significantly by state-of-the-art measurements. It is fully in the focus of ACD and, in my view, could be accepted after minor revision.

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### Details

Section 3.1 If BB periods are to be identified, was there the possibility to use levoglucosan measurements ?

P 12, line 19: Aqueous chemistry could be important involving BB compounds - what about this possibility ? Do days with the high RH give indications for contributions fm such pathways ? Maybe such consideration can be included here.

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