

Editor minor revisions request

The authors have successfully addressed the referees' questions and brought relevant contribution into SOA formation processes in North China Plain. For acceptance, I kindly ask the authors to clarify the points below.

- 1) Referee # 2, question 1: Could the authors, please, add to the manuscript the information that those cations were not measured and justify that statement by using the references from previous studies that were mentioned in the reply?

- 2) Referee # 2, question 8: I think the reviewer has a point in here, which is, in Fig 5, it is possible to see a consistent mass concentration of aq-SOA even when ALWC is very low. Could it mean that those fractions (~10-20%) at low ALWC indicate the presence of a background SOA, not necessarily dependent on the ALWC, or ...? I recommend that some brief explanation could be added to the manuscript.

- 3) It is clear that the Ox-initiated-SOA is related to photochemistry, however, could the authors, please, help the reader to properly understand what this terminology actually stands for? For example, if it corresponds to SOA formation initiated due to the presence of Ox, or ...?