General.

We would like to appreciate the editor for providing the important comments. We have

taken full account of the comments and revised the manuscript. All the changes made and

appeared in the revised text are shown in red. All detailed answers to comments are

displayed in blue.

Comments of Editor

1) please update the solubility of DEA in line 235.

Response: We have updated this content.

Lines 239: ...DEAH+ with relatively low solubility (solubility of 20.52 mol kg-1 for

aminium chloride form (Ge et al., 2011b)) showed...

2) please remove the reference to BJ in line 446 since TA/ammonium ratios in BJ are not

significantly different between clean and polluted days.

Response: The revision has been made.

Line 447: ...in XA...

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3) please remove 'impact' in line 496

Response: The revision has been made.

Line 497: ...the mechanisms...

Once again, we deeply appreciate the time and effort you've spent in reviewing our manuscript.