

## ***Interactive comment on “Characterization of urban amine-containing particles in Southwestern China: seasonal variation, source, and processing” by Yang Chen et al.***

**Anonymous Referee #2**

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Chen et al. investigated amine-containing particles in southwestern China, including the chemical composition, mixing state, source, and processing. The authors described the processing of DEA-containing particles, suggesting that high relative humidity conditions were favorable for the enrichment of DEA in the particle phase. This finding is of novelty, and the characterization of amine-containing particles in southwestern China is useful for improving the scientific understanding of the atmospheric processing of amine-containing particles in this area. The manuscript is well structured and drafted, but still with some grammar and syntax issues. The referee would recommend publishing when some minor issues are addressed. Major issue Section 3.4, please compare your results with the studies worldwide and describe the

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differences in various locations. Conclusion: the effect of relative humidity on DEA-containing particles should be mentioned. Specific issues, Line 68-69, how these amine-containing particles varied? Please briefly describe them. Section 2.1 A map of sampling site would be helpful. Line 108-109, the sentence is unclear, please reword it. Line 118, “impression” or “expression?” Line 172, the effect of air stagnant should be addressed, which will be helpful to understand the atmospheric processing of amine-containing particles. Line 220-225, according to Figure 4, what the possible source for DPA-containing particle from the northeast? Line 264 and 282, “easy” is an informal term, please change it into a formal one. Line 267, please put the comma after (Yao et al. 2011) Line 306, “was” should be “were.”

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