

1 Jason Surratt,
2 Co-Editor of ACP

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5 Dear Jason Surratt,

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7 We thank the reviewer for carefully reading our manuscript and for their very helpful
8 suggestions. Listed below are our responses to the two comments from the reviewer. For clarity
9 and visual distinction, the referee comments are listed here in black and are preceded by
10 bracketed, italicized numbers (e.g. *[1]*). Authors' responses are in red below each referee
11 statement with matching numbers (e.g. *[A1]*).

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13 Sincerely,

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15 Mijung Song
16 Assistant Professor of Earth and Environmental Sciences
17 Chonbuk National University

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21 **Referee #1:**

22 Two comments have not been addressed from reviewer 1:

23 *[1]* The result from Zhang et al. 2007 and Jimenez et al. 2009 are misstated here. These studies
24 show that 20 – 80% of the mass of non-refractory aerosol particles are organic compounds.
25 This is an average assessment over all particles. So the question about the relative importance
26 of systems that are purely organic compounds is not addressed.

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28 *[A1]* Thank you for your comment. To address the reviewer's comment, we have revised the
29 sentence in the revised manuscript (pg 2, line 3-4).

30
31 *[2]* A7: This still seems like a random list of studies about LLPS. These are not all of the studies
32 that show core-shell or phase separated morphologies. Are they simply examples of the type
33 of particles you observe rather than an exhaustive list? If so, that should be noted.

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35 *[A2]* We agree the Referee's comment. To avoid confusion we have deleted the sentences since
36 they are not all of the studies that showed a core-shell morphology in organic particles free of
37 inorganic salt.