Authors' Response to Editor's Comments Manuscript: egusphere-2023-1616

We greatly appreciate the editor's comments on our manuscript.

Editor: I propose to undo the revisions in the abstract made to only show acronyms for FTIR, PLP-LIF and SOA. What is common to some people is uncommon to other. I would suggest using the full unabbreviated expressions.

Authors' reply: In the final manuscript, we have reverted the changes made on the acronyms in the abstract to comply with the journal guidelines.

Editor: In figure 1, words in the title of the right vertical axis do not all fall on one line. The same issue is in the title of the horizontal axis in Figure 5, as well as the formula of the molecule shown in Figure 2(b)

Authors' reply: The misalignment of some characters in the graphs was due to a problem when converting our MS Word to a pdf file. We have solved it by changing the format of our figures in the final manuscript.

Editor: I presume the absorbance in Figure 2 is calculated using log (base 10), not In (base). It maybe worth specifying this.

Authors' reply: We have added to Figure 2 the fact that absorbance is reported as base 10.

Editor: The paper refers to particle diameters. It is customary to specify the type of diameter. I presume it is a mobility-equivalent diameter since the authors used an FMPS. I would explicitly state this.

Authors' reply: We have included in the text that D_p corresponds to mobility diameters.