Faculty of Physical Chemistry Belgrade, 24th. 8. 2016.

University of Belgrade

Serbia

Dear Prof. Juranić,

Thank you very much for facilitating the review of our manuscript entitled “Unrevealing mechanism of avobenzone’s thermal tautomerization by means of quantum chemical computations”, which we have now revised based on the reviewers’ comments. We would like to express our sincere gratitude to the referees, whose comments are very valuable. We believe the quality of the manuscript has improved substantially and provide a point-by-point response below. We hope that you’ll find the manuscript acceptable for publication in *The Journal of Serbian Chemical Society.*

Sincerely,

Mihajlo Etinski

Assistant Professor

Faculty of Physical Chemistry

University of Belgrade

Serbia

**Reviewer A:**  There are few typing errors, which can be easily corrected. The italic font for part of chemical names is not systematically used. Majority of previous objections are now corrected. There is a minor question about the most stable tautomers. The rotation of enol OH group is checked and was proved important. Another posible conformer can arise from the rotation of methoxy group. It will be good to know what is the effect (most likely small) of this conformational change.

**Authors’ response**: We added the following sentence on the page 2: “Similarly, we find that the free energy difference between two enol conformers in which the methoxy group is rotated is 1.2 kJ/mol and thus we will not examine tautomers with the rotated methoxy group.”

**Reviewer A:**    On page 8: The phrase 'electronic structure method', should be 'electronic structure calculation method' The manuscript will be publishable after minor revision.

**Authors’ response**: This is corrected.