Reviewer Comments:

Reviewer #1:
The authors documented spontaneous and non-specific chemical reaction of iodinated contrast media with ammonium persulfate used in As3+-Ce4+ catalytic spectrophotometry for urine iodine concentration detection. The paper is correctly designed and written. But, the authors must widen the discussion chapter, to elucidate the clinical importance of such reaction, i.e. to explain chemical and biochemical significance of such reaction for clinical practice.
Response: Thank you for your kindly comment. The relevant contents have been added to “Discussion” in the revised manuscript.
Reviewer #2:
I read this article with great interest. My understanding is this article highlighting the analytical variation of UIC measurement in PTC patient post iodinated contrast media. Several suggestion is provided here to give better reader understanding.

Abstract: 1. Line 35, Pre and post operation (what is mean by post operation here?) It's post CT?
Response: Thank you for your kindly comment. We have revised the sentence in the revised manuscript.

Introduction: Suggest to expand the introduction so that it is look more clearer the reason why this article is written.
Response: Thank you for the thoughtful comment. The relevant contents have been added to “Introduction” in the revised manuscript.

1. Line 63; suggest to replace the word detection with measurement
2. Line 65..important for prevention of acute thyroid stress caused by excess iodinated contrast media (ICM) injection and for evaluation of ICM renal clearance followed by radioactive iodine treatment. Suggest to revise this statement for better describe the reason why measurement of UIC important. (Following vs followed by)
3. Line 77, what is B-ultrasound?
4. Line 79; suggest to define this short form TI-RADS 4C.
5. Line 94; what is sUICs?
Response: Thank you for the valuable suggestions. We have revised the relevant content in the revised manuscript.

Conclusion: My suggestion is to include the highlighted issues at the end of discussion part.
Response: Thank you for the kindly comment. The relevant contents have been added to “Conclusion” in the revised manuscript.