

Review of: "Investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging"

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Potential competing interests: No potential competing interests to declare.

Comments to the Authors

In this manuscript, the authors demonstrate the "Investigations of Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging". The proposed antenna is fabricated on an FR4-printed circuit board with a rectangular aperture. Major applications of UWB technology are presented.

The manuscript requires major revision as mentioned below to improve the quality of the publication:

- 1. The authors should show the novelty of the work properly.
- 2. Keywords should be in alphabetical order.
- 3. Authors should put a snapshot of the return loss measurement setup.
- 4. Need to modify the introduction, antenna design, conclusion, results, and analysis sections.
- 5. The Introduction section is too lengthy. Please try to reduce it.
- 6. Authors should rewrite the conclusion by removing the figures.
- 7. Include a comparison table of the proposed and reference antennas.
- 8. Please explain the significance of figures 23 and 24.
- 9. Figures (5 to 8) show only the measured radiation pattern. Please include simulated radiation patterns also.
- 10. Figures (20 to 22 and 27 to 30) show only the simulated realised gain. It would be better to please include measured realised gain also.
- 11. The references are very old, and for betterment, the authors should add recent quality papers in the revised manuscript and make a comparison table by adding recent and closely related papers.
- 12. Please explain how the reflector is designed and how the reflector increases the directivity. Also, include a comparison table that can show the increase of directivity.
- 13. The quality of the figures needs to be improved in the revised manuscript.



- 14. Some figures are not cited in the manuscript. (Ex. 4, 9, 22, 23)
- 15. More discussion is required in the results and analysis section.
- 16. The coordinate axes (Y) are missing in many figures. (Ex. 14, 15, 16, 23)

All the corrections should be done in the revised manuscript.