

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.

The authors have presented a UWB slot antenna for microwave imaging applications. Extensive investigation was conducted to evaluate the performance of the proposed antenna. The paper is well written; nevertheless, there are a few shortcomings that need to be addressed.

- 1- The optimized dimensions of $34 \times 30 \text{ mm}^2$ are chosen for the proposed antenna, and a size of $10.8 \times 4 \text{ mm}^2$ is chosen for the stub. In this work, the ground slot is a rectangle with a dimension of $23 \times 13 \text{ mm}^2$. I am curious about the chosen dimensions. What are the criteria behind using these dimensions?
- 2- The authors claim that this work's novelty is improving the proposed antenna's directivity. However, the antenna structure is a standard and commonly used method. It should be clarified.
- 3- The crossed-pol patterns should be included and investigated in the manuscript.
- 4- Why is the presented design in this work suitable for microwave imaging applications?
- 5- The difference between the measured and simulated results is significant. It should be explained.
- 6- The gain versus frequency for the proposed antenna should be plotted.