

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

Kamlesh Patel¹

¹ University of Delhi

Potential competing interests: No potential competing interests to declare.

Authors presented investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging, which is a slot-based antenna with a reflector. The simulation results confirmed the operating band from 4 GHz to 10 GHz, and the radiation patterns were studied. However, the clarity in the present work is not maintained, and the text is written in vague. I don't recommend it in the present form.

Few suggestions to improve the work:

1. The title contained only "UWB antenna"; a specific name should be given to the antenna.
2. The abstract should also contain gain and size information of the antenna.
3. Fig. 1 should show the design of the antenna and then its results.
4. In Figs., authors used VSWR, reflection coefficient, and S_{11} shown with respect to frequency. Any one parameter will be ok.
5. The introduction is poor, and the purpose of such antenna design for microwave imaging is not clear.
6. The measured S_{11} and radiation patterns are presented; however, no application of the antenna for microwave imaging is studied.
7. A comparison with previously reported UWB antennas is required to show the novelty of the proposed antenna design.