

# 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 an investigation into the determination of the input impedance and radiation pattern of a UWB antenna. Following observations are made:

1. How can the authors claim the antenna to be UWB when the operating bandwidth itself starts from 4 GHz, much beyond the FCC specified limit? Further, since one of the objectives of this paper is to achieve improved impedance matching, why are the authors not attempting to improve the same in the 3-4 GHz frequency range? It seems like the objective of this design is met partially only. Justify.
2. The reference antennas that the authors have considered—in comparison to them, their proposed antenna is showing better impedance matching; however, in the open literature, numerous UWB antennas are available with comparable impedance matching characteristics, if not better. So, the novelty from this aspect is not clear.
3. Can the authors shed some more light on why the antenna is positioned on one side of the reflector and not in the centre?