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

Seyed Jalil Hosseini[1]

1 Iran University of Science and Technology Tehran

Potential competing interests: No potential competing interests to declare.

Dear Editor,

It was a pleasure to have been selected as a manuscript reviewer. I hope that my suggestions will help improve the quality of the manuscript.

In my opinion, the concept presented in the manuscript is efficient and valuable. However, there are several issues that, if addressed, will make it even more efficient. These issues are listed below:

1. It is important to note that FR-4 has a large loss tangent. Therefore, the authors should provide a detailed explanation for its use as a substrate.
2. English is good, but it is suggested to be reviewed by a native speaker.
3. Some references are old. The articles published in the last four years were expected to be used. I suggest that you review these new papers that are related to your work:[1][2][3]
4. The quality of the figures is extremely poor and not suitable for publication at all.
5. The figures should be arranged using MATLAB and inserted in the manuscript in ***".emf"*** format. Direct inclusion of CST output is discouraged.
6. Please create a table to compare your current work with any previous similar works.

Although the proposed antenna is exciting and valuable, I suggest a **major revision**.

Best Regards,

Seyed Jalil Hosseini

Iran University of Science and Technology

References

1. ^ *Seyed Jalil Hosseini, Homayoon Oraizi. (2021). Wide-band conversion of donut-shaped pattern to directive one by square-shaped pattern director antenna. Int. J. Microw. Wireless Technol., vol. 14 (9), 1099-1106. doi:10.1017/s1759078721001422.*

2. ^*Sun Shuai, Huafeng Su, Yang Jiao, Jun-Hui Ou, et al. (2024).Ultra-Wideband Omnidirectional Antenna With Stable Radiation Patterns Using CMA. IEEE Trans. Veh. Technol.. doi:10.1109/tvt.2024.3368222.*
3. ^*Seyed Jalil Hosseini, Masoud Dahmardeh, Mohsen Yousefian. (2020). A high power TEM to TE₁₀ mode converter with 70% bandwidth. Journal of Electromagnetic Waves and Applications, vol. 35 (3), 389-399. doi:10.1080/09205071.2020.1842255.*