|  |  |
| --- | --- |
| Journal Name: | [**Physical Science International Journal**](https://journalpsij.com/index.php/PSIJ) |
| Manuscript Number: | **Ms\_PSIJ\_132844** |
| Title of the Manuscript: | **Effect of Defected Ground Structures on Microstrip Patch Antenna Performance for ISM Band Applications** |
| Type of the Article | **Original Research Article** |

|  |
| --- |
| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **That is good. The terms I, We, or they cannot be inscribed on paper; these terms are present within the aforementioned paper.**1. Please mention the literature review and Research Methodology in your manuscript. **The recently cited literature is absent from this work.**
2. **Mathematical designing section, please mention the citation.**
3. **Kindly elucidate on Return Loss, Voltage Standing Wave Ratio, Radiation Pattern and surface current.**
4. **Kindly compare the previously published works with your own and demonstrate that your work surpasses those earlier publications.**
5. **Did not discuss the challenge and future works.**
6. **Also, add the recent paper in your manuscript, especially 2024 and 2025.**
 |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes.** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **Please rewrite the abstract. Please mention the simulation results. Also, mention the novelty of your proposed work and operating frequency.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **No. Minimum of 30 papers needs to be added to the reference sections.****The recent paper is missing in literature review. If possible added these papers to your manuscript. It’s very helpful for manuscript.**1. Rana, M.S. et al. (2024). A Patch Antenna Design of S-Band for WLAN Applications. In: Ranganathan, G., Papakostas, G.A., Shi, Y. (eds) Inventive Communication and Computational Technologies. ICICCT 2024. Lecture Notes in Networks and Systems, vol 23. Springer, Singapore. [https://doi.org/10.1007/978-](https://doi.org/10.1007/978-981-97-7710-5_30) [981-97-7710-5\_30](https://doi.org/10.1007/978-981-97-7710-5_30)
2. An S-Band Microstrip Patch Antenna Design and Simulation for Wireless Communication Systems
3. M. S. Rana and M. M. Rahman, "Study of Microstrip Patch Antenna for Wireless Communication System," 2022 International Conference for Advancement in Technology (ICONAT), Goa, India, 2022,

pp. 1-4, doi: 10.1109/ICONAT53423.2022.9726110.1. S. Hossain, T. Alam, F. Rawshan, M. R. Nahid, S. Alam and M. S. Rana, "Design and Analysis of Microstrip Patch Antenna for Breast Tumor Detection," 2024 International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS), Dhaka, Bangladesh, 2024,

pp. 01-04, doi: 10.1109/iCACCESS61735.2024.10499589. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | No, There are some grammatical problems in the introduction and conclusion. |  |
| **Optional/General** comments |  |  |

|  |
| --- |
| **PART 2:** |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |

**Reviewer Details:**

**Md. Sohel Rana, Northern University of Business and Technology Khulna, Bangladesh**