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| **Author(s) Name:** | Tamim Hossain, Reazuddin Mahmud, Hajmina Khanom Juhi, Mohammad Rakin Imtiaz, Rashedul Hoque | | |
| **Contact Email(s):** | tamim@aiub.edu | | |
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| **Abstract:** |  |
| Implantable Medical Devices (IMDs) consist of miniature implantable antenna that is embodied inside and its bidirectional communication is monitored through external monitoring device. This paper presents an implantable miniaturized antenna working in the Medical Implant Communication Service (MICS) band and being carried out in human body phantom models representing implantation inside the arm which helped to design the proposed antenna. Furthermore, different characteristics of the antenna such as S parameter, return loss and directivity were contemplated using FR4 substrate material in the same band. | |