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Abstract

In this paper, a rectangular microstrip patch antenna on two-layer substrate materials has been analyzed and simulated at the terahertz frequency regime for the surveillance system. The proposed antenna has been simulated at 600 and 800 GHz frequencies by using CST Microwave Studio a commercially available simulator based on finite integral technique. This antenna structure is also simulated by using finite element method based simulator Ansoft HFSS and the results are compared with former.