

Interference Analysis from LPR into BSDS Using Geographical Model

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Abstract— In this paper, we evaluate the interference effect of LPR on BSDS in 24.05-24.25 GHz band. The geographical model for the analysis is used and the dynamic simulation is performed, taking into account real environment. The results show that the received interfered power from LPR depends on the separate distance along the road and relative position. It is, also, realized that an appropriate location and pattern of the LPR's antenna may mitigate the interference to BSDS. This result could be used for planning LPR installation and also find out a suitable radiation pattern.

Keyword— BSDS, LPR, Interference, Geographical model



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