ABSTRACT

The development of wireless industry has a good progress recently. 3G Technology which is established by ITU will take an important role and it will dominate the development of communication technology. The increase of the amount of WCDMA customer will need a scope of network in an area which can be indoor or outdoor. This research is in the form of case study about the analysis of signal scope of WCDMA system in an area. The significant parameters being used in this research were Effective Isotropic Radiated Power (EIRP) dan Received Signal Code Power (RSCP). The result showed that for data calculation the EIRP 58 dBm and RSCP -117.73 dBm. Furthermore, the drive test results showed on the first floor outdoor value of -90 dBm, while for the indoor nya is -99 dBm. For the outdoor second floors value of -95 dBm and the indoor is -100 dBm.

Keywords: wireless, 3G, ITU, Effective Isotropic Radiated Power (EIRP), Received Signal Code Power (RSCP)