

Study of Conducted Electromagnetic Emissions of a Wireless Power System

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Abstract—This paper presents a study regarding the conducted electromagnetic emissions of a wireless power system. Due to the fact that in the last few years there have appeared a lot of devices with wireless systems, it must be in accordance to the EMC norms. In this context, were performed tests to ensure that analyzed wireless power system meet the EN 55032 standard limits. Based on the test results, was designed a filter to reduce conducted electromagnetic emissions and improve the performance of the wireless power system.

Keywords—wireless system; induced voltage; emitter; electromagnetic conducted emissions; standard limits; LISN.

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