

Experiments on Vehicle to Roadside Microwave Communication

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Experiments on microwave communication (2.45 GHz, semi-passive transponders) between vehicle and roadside for road pricing are described. The experiments showed that the uplink was 1.5 dB short, the downlink 1 dB. From the experiments it was concluded that microwave communication is suitable, although the equipment used was not. Recent developments in Europe are shortly described, among which the CEPT decision to use the 5.8 GHz band with 3 dBW EIRP for vehicle to roadside communication in Europe. It is explained that the 'pseudo-multilane' solution provides a simple solution for vehicle to roadside communication without physical lane separation.

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