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*CHANNEL PROPAGATION EXPERIMENTAL MEASUREMENTS
AND SIMULATIONS AT 52 GHz*

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Abstract—This paper presents a comparison of channel propagation measurements, conducted in an outdoor scenario, with ray-tracing simulations at 52GHz. The simulation and the measurements both show that long range reflections from metallic structures contribute to the received multipath components. However, the diffuse multipath components which originate from rough surfaces are captured by the channel sounder are not reproduced in the simulation. Further calibration of such tools is therefore necessary prior to their application as channel prediction tools.

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