

Measured Radio Channel Characteristics at 14 – 23 GHz

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Abstract:

This TD presents the summary of preliminary measurements done at four different bands with bandwidths 500 MHz, 1400 MHz, 1800 MHz and 400 MHz between 14 GHz and 23 GHz. The measurements are indoor measurements with the help of vector network analyser (VNA) using direct cable connections to the antennae. The transmitting horn antenna is rotated in the azimuthal plane. The path loss results are very close to the free space path loss calculation indicating the frequency dependent behaviour. The channel impulse responses would have been achieved better with an antenna array and this is indeed the intent for the further measurements. The delay and directional spreads are also shown.