

Normal range of communication base station level value

What are the technical specifications for mobile broadband base station Radio Frequency equipment?

Technical Specifications for Mobile Broadband Base Station Radio Frequency Equipment 1. Legal Basis The Specifications are established on Paragraph 2, Article 66 of the Telecommunications Management Act. 2. Definitions and Abbreviations: 2.1 Definitions: NTXU, counted per cell: Number of active transmission units in a single cell.

How much exposure can a radio base station have?

On the ground, in houses, and other places where people reside, the exposure levels from radio base stations are normally below 1 percent of the limits. Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded.

What is the maximum rated power output for a base station?

Wide area base station (note 1) Medium range base station ≤ 38 dBm (note 2) Local area base station ≤ 24 dBm (note 2) Note 1: no upper limit for the rated power output, Prated, c, AC, for wide area base station. Note 2: the limits may be relaxed according to Table 41.

How high should a base station antenna be?

Per ITU-R P.1410 recommendations, base station antenna heights typically range between 15-60 meters. Urban deployments favor 25-35m, rural coverage requires 40-55m, while 5G mmWave systems operate efficiently at 15-25m. Critical factors include propagation models, terrain, and frequency bands.

What are 3GPP base station conformance testing requirements?

We start with a quick overview of 3GPP base station conformance testing requirements. 3GPP defines the radio frequency (RF) conformance test methods and requirements for NR base stations in the technical specification TS 38.141, which covers transmitter (Tx), receiver (Rx), and performance (Px) testing.

Which NR test configurations should be used for other NR base stations?

For other NR base stations, the test configurations in table 4.5-1 and table 4.5-2 shall be used. The NR test configurations (NRTCx) are defined in TS 38.141-1, subclause 4.7 for BS type 1-C and BS type 1-H and in TS 38.141-2, subclause 4.7 for BS type 1-O and BS type 2-O.

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