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Title: Base station communication equipment testing specifications

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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.

Why do base stations need a conformance test?

Base stations must now pass new conformance tests to ensure they deliver on their promises. Performing conformance testing is an important part of the base station lifecycle, which requires a thorough understanding of 3rd generation partnership project (3GPP) specifications.

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.

What are the performance and evaluation requirements for new radio base station?

This specification sets out the performance and evaluation requirements for New Radio (NR) Base Station (BS) for mobile communications services (hereafter referred to as "the equipment"). 2. 3. For equipment operating in the 3400 - 3600 MHz and 4800 - 4960 MHz bands, any unwanted emissions in the 3700 - 4200 MHz band shall not exceed -52 dBm/MHz.

These criteria are specified by the mobile communication standardization body 3GPP. Based on the 3GPP base station conformance specifications, regional standardization bodies, local ...

Apr 21, 2022 · A free remote-operation software program is additionally provided. With

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this software, users can remotely control and demo tests on base stations quickly and easily. It ...

Jan 27, 2025 · This specification sets out the performance and evaluation requirements for New Radio (NR) Base Station (BS) for mobile communications services (hereafter referred to as ...

Explore 5G measurements for User Equipment (UE) and Base Stations (BS), covering transmitter and receiver test scenarios, conformance, and network stability.

Apr 21, 2022 · 1 Introduction Technical specifications that describe RF characteristics and minimum performance requirements of, for example E-UTRA, base stations (TS36.104 [1]) ...

Jun 20, 2023 · What is Base Station Testing? In wireless communication networks, base stations or cell towers are evaluated and assessed for ...

Dec 8, 2023 · This paper discusses 5G NR Release 16 base station transmitter conformance testing requirements and the specific challenges that arise in millimeter wave (mmWave) ...

Jul 18, 2025 · The present document specifies the Radio Frequency (RF) test methods and conformance requirements for NR and NB-IoT operation in NR in-band Base Station (BS) ...

Dec 15, 2020 · Introduction 5G New Radio (NR) introduces wider bandwidths, millimeter-wave (mmWave) frequencies, massive multiple input / multiple output (mMIMO), beamforming, and ...

Jun 26, 2023 · Technical Specifications for Mobile Broadband Base Station Radio Frequency Equipment (Unofficial Translation*) National Communications Commission (NCC) April 26 ...

Jun 20, 2023 · What is Base Station Testing? In wireless communication networks, base stations or cell towers are evaluated and assessed for their functionality, performance, and ...

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