

A-Core Container

Communication signal base station measurement



Overview

What is base station conformance testing?

The solutions range from high-performance signal generators and signal analyzers to turnkey test systems including shielded chamber environments. Typically, base station conformance testing is performed with a combination of a vector signal generator and a signal and spectrum analyzer.

What is a 5G base station conformance test?

Conformance testing is an essential part of the base station life-cycle, which requires an in-depth understanding of 3rd Generation Partnership Project (3GPP) specifications. Before a 5G new radio (NR) base station or user equipment (UE) can be released onto the market, it must pass all necessary tests.

Why should a base station be able to perform 3GPP conformance testing?

A cost-effective verification that the receiver is able to meet performance requirements under real-world conditions is needed. With the evolution of base stations, it is not only necessary to be able to perform 3GPP conducted conformance testing in a conducted manner, as well as radiated conformance testing over-the-air.

How can a base station be configured?

A base station can be configured in one of four ways, depending on whether the tests are conducted or radiated, and the configuration of the station. Type 1-C refers to NR base stations operating at FR1 with requirements at individual antenna connectors.

Which signal analyzer is best for 5G NR base stations?

The N9032B PXA and N9042B UXA signal analyzers are by far the most advanced signal analysis products to fulfill the latest testing requirements for 5G NR base stations. These solutions perform up to 40% faster with the new

CPU to help you quickly make computation-intensive measurements, such as demodulation and EVM.

Why is base station performance important?

Base station (BS) performance is vital for delivering expected quality of experience to end users. To ensure this, it is important that the base station conformance criteria is met and that they fulfill the requirements in the region in which they operate. These criteria are specified by the mobile communication standardization body 3GPP.

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Contact Us

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