

# **RF Test Equipment Market Size, Share & Trends Analysis Report By Type Of Equipment (Oscilloscopes, Signal Generators), By Frequency Range, By Form Factor, By End-use, By Region, And Segment Forecasts, 2024 - 2030**

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## **Abstracts**

**This report can be delivered to the clients within 5 Business Days**

### **RF Test Equipment Market Growth & Trends**

The global RF test equipment market size is anticipated to reach USD 4.88 billion by 2030 and is anticipated to grow at a CAGR of 8.6% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market is experiencing significant growth, driven by several key factors and presenting numerous opportunities. One of the primary drivers is the global rollout of 5G networks, which necessitates specialized RF test solutions due to the advanced features and higher frequencies associated with 5G technology. In addition, the proliferation of IoT devices across various industries boosts the demand for RF test equipment to ensure the reliability and performance of wireless communication modules and networks.

The automotive industry's shift towards electric vehicles, connected cars, and autonomous driving technologies further fuels the market growth. This sector requires extensive testing of RF components such as radar sensors and V2X communication systems to ensure safety and reliability. Furthermore, the adoption of Industry 4.0 practices and smart manufacturing initiatives increases the need for RF test equipment in factory automation and industrial IoT applications.

Emerging technologies like mmWave communication, satellite constellations, and

quantum computing also create new opportunities for RF test equipment providers. These technologies require specialized testing solutions tailored to their unique requirements. In response to these trends, there is a growing demand for automated testing solutions and software-defined instruments that offer flexibility, scalability, and ease of use, helping to reduce testing costs and speed up time-to-market for customers.

## RF Test Equipment Market Report Highlights

The oscilloscopes segment dominated the target market in 2023 with the largest revenue share of more than 27.0%. Oscilloscopes dominate the market due to their unparalleled precision and versatility in signal analysis. These devices are essential for visualizing and diagnosing the behavior of electrical signals in various applications.

The 1 GHz–6 GHz segment dominated the market with a revenue share of more than 29% in 2023. Primarily, the widespread adoption of wireless communication technologies, including 5G, Wi-Fi, and Bluetooth, drives demand for RF test equipment operating within this frequency range.

The benchtop segment dominated the market, with a revenue share of more than 47% in 2023. The dominance of the benchtop segment is due to its superior performance, versatility, and reliability. These benchtop instruments offer high accuracy and multifunctionality, integrating signal generation, analysis, and power measurements in a single unit. Their ease of use, seamless integration with other equipment, and durable construction make them ideal for demanding applications in industries like telecommunications and aerospace.

The telecommunication segment dominated the target market, accounting for a revenue share of more than 31.0% in 2023. The rapid expansion of telecommunication networks, including the deployment of 5G technology, fuels demand for RF test equipment to ensure network reliability and performance.

Asia Pacific asserted its dominance globally in 2023, capturing the largest revenue share at 36.7%. Rapid growth in telecommunications infrastructure, driven by increasing mobile phone penetration and 5G network deployment, fuels demand for RF testing solutions. The region's prominence in electronics manufacturing, particularly in countries like China, Japan, South Korea, and Taiwan, further boosts demand for RF test equipment to ensure quality control in

production processes.

In February 2024, Anritsu Corporation introduced the latest NR Licensed 6GHz Band Measurement MX800010A-014 software for its MT8000A Radio Communication Test Station. This system now provides support for RF tests<sup>1</sup> in the 6 GHz band (5.925 GHz to 7.125 GHz) intended for 5G FR12 devices. This enhancement comes in response to the extension announced in December 2023, which raised the upper-frequency limit for licensed bands operating on 5G Frequency Range 1 (FR1).

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