

Wireless Testing Market by Offering (Equipment, Services), Technology (5G, Bluetooth, Wi-Fi, 2G/3G, 4G/LTE, GPS/GNSS), Application (Consumer Electronics, IT & telecommunication, Medical Devices, Aerospace & Defense) & Region - Global Forecast to 2029

<https://marketpublishers.com/r/W6170520A33FEN.html>

Date: March 2024

Pages: 253

Price: US\$ 4,950.00 (Single User License)

ID: W6170520A33FEN

Abstracts

The wireless testing market is projected to grow from USD 22.6 billion in 2024 to USD 34.1 billion by 2029, registering a CAGR of 8.6% during the forecast period.

Some of the major factors driving the growth of the wireless testing market include rising global adoption of smartphones and smart gadgets and growing adoption of cloud computing and IoT technologies. However, Lack of standardization in connectivity protocols act as a challenge for the market in the future. The major growth opportunities for the market players are the adoption of autonomous driving and adoption of Wi-Fi 6 (802.11ax) and Wi-Fi 6E with enhanced wireless capabilities.

'Market for consumer electronics expected to have the highest CAGR during the forecast period.'

The consumer electronics segment of the wireless testing market is expected to witness the highest CAGR during the forecast period. With an emphasis on making gadgets compact and smart, wireless testing is crucial to the consumer electronics sector. In addition, before to being on sale, all consumer electronics must undergo testing for functionality, safety, and effectiveness. These goods are therefore put through end-of-line production testing, integration testing, and component testing. Consumer electronics, including tablets and smartphones, primarily make use of LTE, UMTS, and

GSM technologies. Near-field communication (NFC), Bluetooth, cellphone, Wi-Fi, and other wireless technologies that are integrated into consumer gadgets are all tested by the testing service providers.

' Research & Development segment expected to register the highest CAGR during the forecast period.'

The research & development segment is expected to account for the highest CAGR in the forecast period. Wireless testing is a crucial component of the research and development (R&D) process in the field of wireless technologies. In the R&D phase, testing is employed to validate, optimize, and ensure the performance, reliability, and security of new wireless technologies, devices, or features. Along with research and demonstration efforts for constructing 5G networks in private domains, such as private 5G, research and development for 5G use in the automotive area has started. The need to create 5G wireless modules and Wi-Fi 6E has arisen, which is fueling the demand for wireless testing. In addition, development has started on the 6G standard, the next generation of communication.

'North America to account for the second highest market share among other regions in 2023.'

In 2023, North America accounted for the second largest share of the wireless testing market. Most of the leading players in the wireless testing market are based in this region. The increased spending on the research and development (R&D) of the Internet of Things (IoT) is driving the growth of the wireless testing market. The growing R&D at academic and industry levels are broadening IoT/wireless testing application areas in different end-user industries, such as consumer electronics, automotive, and medical devices, especially in North America.

The transition from 4G to 5G networks has generated lucrative growth opportunities for wireless network test equipment providers in the region. North America is a major hub for technological innovations. It is also an early adopter of new and advanced technologies. Major players, such as Keysight and VIAVI Solutions, among others in the region, support the demand for new technologies and help increase awareness regarding these technologies.

In determining and verifying the market size for several segments and subsegments gathered through extensive secondary research, primary interviews have been conducted with key industry experts in the wireless testing market.

The break-up of primary participants for the report has been shown below:

By company type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%

By designation: C-Level Executives - 40%, Managers - 30%, and Others - 30%

By region: North America - 35%, Europe - 20%, Asia Pacific - 35%, and RoW - 10%

The report profiles key players in the wireless testing market with their respective market ranking analyses. Prominent players profiled in this report include SGS Group (Switzerland), Bureau Veritas (France), Intertek (UK), DEKRA SE (Germany), Anritsu (Japan), ALifecom Technology (Taiwan), Keysight Technologies (US), Rohde & Schwarz (Germany), VIAVI Solutions (US), T?V NORD Group (Germany), and among others.

Research Coverage

This research report categorizes the wireless testing market based on technology, end-user industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the wireless testing market and forecasts the same till 2029. The report also consists of leadership mapping and analysis of companies in the wireless testing ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall wireless testing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (advancements in wireless technology, increasing focus

on deployment of 5G network, rising global adoption of smartphones and smart gadgets, and growing adoption of cloud computing and IoT technologies), restraints (high investments involved in establishing electromagnetic compatibility (EMC) testing facilities, high equipment cost and lack of skilled workforce, and lack of standardization in connectivity protocols), opportunities (growing popularity of automated cars and rising adoption of Wi-Fi 6 and Wi-Fi 6E), and challenges (long lead time required for overseas qualification tests and requirement for constant upgrading of equipment and services with technological advancements) influencing the growth of the wireless testing market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the wireless testing market

Market Development: Comprehensive information about lucrative markets – the report analyses the wireless testing market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the wireless testing market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product/service offerings of leading players like SGS Group (Switzerland), Bureau Veritas (France), Intertek (UK), DEKRA SE (Germany), Anritsu (Japan), ALifecom Technology (Taiwan), Keysight Technologies (US), Rohde & Schwarz (Germany), VIAVI Solutions (US), T?V NORD Group (Germany), and among others in the wireless testing market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 WIRELESS TESTING MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.3.4 CURRENCY CONSIDERED

1.3.5 UNITS CONSIDERED

1.4 LIMITATIONS

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.7 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews with experts

2.1.2.2 Key data from primary sources

2.1.2.3 Breakdown of primaries

2.1.3 SECONDARY AND PRIMARY RESEARCH

2.1.3.1 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to derive market size using bottom-up analysis (demand side)

FIGURE 3 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to derive market size using top-down analysis (supply side)

FIGURE 4 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 5 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON WIRELESS TESTING MARKET

2.6 RESEARCH LIMITATIONS

2.7 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 6 SERVICES SEGMENT TO HOLD LARGER MARKET SHARE IN 2024

FIGURE 7 PRODUCTION SEGMENT TO HOLD LARGEST MARKET SHARE IN 2024

FIGURE 8 CONSUMER ELECTRONICS SEGMENT TO HOLD LARGEST MARKET SHARE IN 2029

FIGURE 9 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN WIRELESS TESTING MARKET

FIGURE 10 INCREASING DEMAND FOR WIRELESS TESTING IN IT & TELECOMMUNICATION APPLICATION TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

4.2 WIRELESS TESTING MARKET, BY EQUIPMENT TYPE

FIGURE 11 WIRELESS NETWORK TESTING SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.3 ASIA PACIFIC WIRELESS TESTING MARKET, BY APPLICATION AND COUNTRY

FIGURE 12 IT & TELECOMMUNICATION SEGMENT AND CHINA HELD LARGEST SHARES OF ASIA PACIFIC WIRELESS TESTING MARKET IN 2023

4.4 WIRELESS TESTING MARKET, BY COUNTRY

FIGURE 13 INDIA TO DOMINATE WIRELESS TESTING MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 14 WIRELESS TESTING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

FIGURE 15 WIRELESS TESTING MARKET: IMPACT ANALYSIS OF DRIVERS

5.2.1.1 Advancements in wireless technology

5.2.1.2 Increasing focus on 5G network deployment

5.2.1.3 Rising global adoption of smartphones and smart gadgets

5.2.1.4 Growing adoption of cloud computing and IoT technologies

5.2.2 RESTRAINTS

FIGURE 16 WIRELESS TESTING MARKET: IMPACT ANALYSIS OF RESTRAINTS

5.2.2.1 High investments involved in establishing electromagnetic compatibility (EMC) testing facilities

5.2.2.2 Lack of standardization in connectivity protocols

5.2.2.3 High equipment cost and lack of skilled workforce

5.2.3 OPPORTUNITIES

FIGURE 17 WIRELESS TESTING MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

5.2.3.1 Growing popularity of automated cars

5.2.3.2 Rising adoption of Wi-Fi 6 and Wi-Fi 6E

5.2.4 CHALLENGES

FIGURE 18 WIRELESS TESTING MARKET: IMPACT ANALYSIS OF CHALLENGES

5.2.4.1 Long lead time required for overseas qualification tests

5.2.4.2 Requirement for constant upgrades of equipment and services with technological advancements

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 19 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.4 PRICING ANALYSIS

5.4.1 AVERAGE SELLING PRICE (ASP) OF WIRELESS NETWORK TESTING EQUIPMENT

TABLE 1 AVERAGE SELLING PRICE (ASP) OF WIRELESS NETWORK TESTING EQUIPMENT, 2023 (USD)

FIGURE 20 AVERAGE SELLING PRICE (ASP) OF WIRELESS NETWORK TESTING EQUIPMENT, 2023 (USD)

5.4.2 AVERAGE SELLING PRICE (ASP) OF WIRELESS DEVICE TESTING EQUIPMENT

TABLE 2 AVERAGE SELLING PRICE (ASP) OF WIRELESS DEVICE TESTING EQUIPMENT, 2023 (USD)

FIGURE 21 AVERAGE SELLING PRICE (ASP) OF WIRELESS DEVICE TESTING EQUIPMENT, 2023 (USD)

5.4.3 HISTORICAL AVERAGE SELLING PRICE (ASP) TREND OF WIRELESS NETWORK TESTING EQUIPMENT

FIGURE 22 HISTORICAL AVERAGE SELLING PRICE (ASP) TREND OF WIRELESS NETWORK TESTING EQUIPMENT, 2020–2023 (USD)

5.4.4 HISTORICAL AVERAGE SELLING PRICE (ASP) TREND OF WIRELESS DEVICE TESTING EQUIPMENT

FIGURE 23 HISTORICAL AVERAGE SELLING PRICE (ASP) TREND OF WIRELESS DEVICE TESTING EQUIPMENT, 2020–2023 (USD)

5.4.5 INDICATIVE SELLING PRICE OF OSCILLOSCOPES AND SPECTRUM ANALYZERS, BY KEY PLAYER

FIGURE 24 INDICATIVE SELLING PRICE OF OSCILLOSCOPES AND SPECTRUM ANALYZERS OFFERED BY TWO KEY PLAYERS (USD)

TABLE 3 INDICATIVE SELLING PRICE OF OSCILLOSCOPES AND SPECTRUM ANALYZERS OFFERED BY TWO KEY PLAYERS (USD)

5.4.6 INDICATIVE SELLING PRICE TREND OF OTA TESTERS, BY REGION

FIGURE 25 INDICATIVE SELLING PRICE TREND OF OTA TESTERS, BY REGION, 2020–2029 (USD THOUSAND)

5.5 VALUE CHAIN ANALYSIS

FIGURE 26 WIRELESS TESTING MARKET: VALUE CHAIN ANALYSIS

5.6 ECOSYSTEM ANALYSIS

FIGURE 27 WIRELESS TESTING MARKET: ECOSYSTEM ANALYSIS

TABLE 4 ROLES OF COMPANIES IN WIRELESS TESTING ECOSYSTEM

5.7 INVESTMENT AND FUNDING SCENARIO, 2020–2024

FIGURE 28 FUNDS AUTHORIZED BY SEVERAL KEY PLAYERS IN WIRELESS TESTING MARKET, 2020–2024 (USD MILLION)

5.8 TECHNOLOGY ANALYSIS

5.8.1 KEY TECHNOLOGIES

5.8.1.1 AI-powered testing

5.8.1.2 Over-the-Air (OTA) testing

5.8.2 COMPLEMENTARY TECHNOLOGIES

5.8.2.1 Network security testing

5.8.3 ADJACENT TECHNOLOGIES

5.8.3.1 5G testing

5.9 PATENT ANALYSIS

FIGURE 29 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

TABLE 5 TOP 20 PATENT OWNERS IN LAST 10 YEARS

5.9.1 LIST OF MAJOR PATENTS

TABLE 6 LIST OF MAJOR PATENTS RELATED TO WIRELESS TESTING

CONNECTIONS, 2022–2024

5.10 TRADE ANALYSIS

5.10.1 IMPORT SCENARIO

FIGURE 30 IMPORT DATA FOR HS CODE 851712-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD THOUSAND)

5.10.2 EXPORT SCENARIO

FIGURE 31 EXPORT DATA FOR HS CODE 851712-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD THOUSAND)

5.11 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 7 WIRELESS TESTING MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2024–2025

5.12 CASE STUDY ANALYSIS

5.12.1 EXCIS REBUILT END-TO-END WIRELESS INFRASTRUCTURE AND SECURITY FOR MANUFACTURING PLANT IN FULDA, GERMANY

5.12.2 KEYSIGHT OFFERED IOT0047A SOFTWARE TO ETSI TO PERFORM COMPLEX AND TIME-CONSUMING ADAPTIVITY TESTS

5.12.3 CAPGEMINI CONDUCTED PUBLIC TRIALS OF 41 NEW 5G SERVICES TO ENHANCE TRAFFIC MANAGEMENT, HEALTHCARE, TOURISM, AND EMERGENCY SERVICES IN MILAN

5.13 REGULATORY LANDSCAPE AND STANDARDS

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS RELATED TO WIRELESS TESTING CONNECTIONS

TABLE 8 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 REGULATIONS

5.13.2.1 General Data Protection Regulation (GDPR)

5.13.3 STANDARDS

TABLE 12 SECURITY AND PRIVACY STANDARDS IMPLEMENTED BY EUROPEAN TELECOMMUNICATION STANDARDS INSTITUTE (ETSI)

5.14 PORTER'S FIVE FORCES ANALYSIS

FIGURE 32 WIRELESS TESTING MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 13 WIRELESS TESTING MARKET: PORTER'S FIVE FORCES ANALYSIS

5.14.1 INTENSITY OF COMPETITIVE RIVALRY

5.14.2 THREAT OF SUBSTITUTES

5.14.3 BARGAINING POWER OF BUYERS

5.14.4 BARGAINING POWER OF SUPPLIERS

5.14.5 THREAT OF NEW ENTRANTS

5.15 KEY STAKEHOLDERS AND BUYING CRITERIA

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 WIRELESS TESTING MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY APPLICATION

TABLE 14 WIRELESS TESTING MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY APPLICATION (%)

5.15.2 BUYING CRITERIA

FIGURE 34 WIRELESS TESTING MARKET: KEY BUYING CRITERIA FOR THREE KEY APPLICATIONS

TABLE 15 WIRELESS TESTING MARKET: KEY BUYING CRITERIA FOR THREE KEY APPLICATIONS

6 WIRELESS TESTING MARKET, BY OFFERING

6.1 INTRODUCTION

FIGURE 35 WIRELESS TESTING MARKET, BY OFFERING

FIGURE 36 SERVICES SEGMENT TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

TABLE 16 WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 17 WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 18 WIRELESS TESTING MARKET, BY EQUIPMENT TYPE, 2020–2023 (USD MILLION)

TABLE 19 WIRELESS TESTING MARKET, BY EQUIPMENT TYPE, 2024–2029 (USD MILLION)

6.2 EQUIPMENT

TABLE 20 EQUIPMENT: WIRELESS TESTING MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 21 EQUIPMENT: WIRELESS TESTING MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 22 EQUIPMENT: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 23 EQUIPMENT: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

6.2.1 WIRELESS DEVICE TESTING

TABLE 24 WIRELESS DEVICE TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2020–2023 (USD MILLION)

TABLE 25 WIRELESS DEVICE TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2024–2029 (USD MILLION)

TABLE 26 WIRELESS DEVICE TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2020–2023 (THOUSAND UNITS)

TABLE 27 WIRELESS DEVICE TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2024–2029 (THOUSAND UNITS)

6.2.1.1 Oscilloscopes

6.2.1.1.1 Growing use of digital oscilloscopes to drive market

6.2.1.2 Signal generators

6.2.1.2.1 Rising adoption of signal generators across various sectors for testing applications to drive market

6.2.1.3 Spectrum analyzers

6.2.1.3.1 Ability of spectrum analyzers to connect to wireless devices and analyze electromagnetic signals to drive demand

6.2.1.4 Network analyzers

6.2.1.4.1 Growing use of network analyzers in RF design laboratories to measure network parameters to drive market

6.2.1.5 Over-the-Air (OTA) testers

6.2.1.5.1 Rising use of OTA testers to test IoT devices to drive market

6.2.1.6 Electromagnetic interference (EMI) testers

6.2.1.6.1 Proliferation of electronic devices across various sectors to drive market

6.2.1.7 Other wireless testing equipment

6.2.2 WIRELESS NETWORK TESTING

TABLE 28 WIRELESS NETWORK TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2020–2023 (USD MILLION)

TABLE 29 WIRELESS NETWORK TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2024–2029 (USD MILLION)

TABLE 30 WIRELESS NETWORK TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2020–2023 (THOUSAND UNITS)

TABLE 31 WIRELESS NETWORK TESTING: WIRELESS EQUIPMENT TESTING MARKET, BY SUB-TYPE, 2024–2029 (THOUSAND UNITS)

6.2.2.1 Network testers

6.2.2.1.1 Use of network testers for solving issues of interference and congestion to drive market

6.2.2.2 Network scanners

6.2.2.2.1 Increased adoption of network scanners by network administrators to

verify IP address documentation to drive market

6.2.2.3 Other wireless network testing equipment

6.2.3 WIRELESS MODULE TESTING

6.2.3.1 Presence of several companies offering wireless module testing to drive market

6.2.4 WIRELESS IC TESTING

6.2.4.1 Emergence of 5G, Wi-Fi 6E, and other high-speed wireless technologies to drive market

6.3 SERVICES

TABLE 32 SERVICES: WIRELESS TESTING MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 33 SERVICES: WIRELESS TESTING MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 34 SERVICES: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 35 SERVICES: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

6.3.1 IN-HOUSE

6.3.1.1 Increasing preference for in-house wireless testing services to drive market

6.3.2 OUTSOURCED

6.3.2.1 Small- and medium-sized players to dominate market

7 WIRELESS TESTING MARKET, BY CONNECTIVITY TECHNOLOGY

7.1 INTRODUCTION

FIGURE 37 WIRELESS TESTING MARKET, BY CONNECTIVITY TECHNOLOGY

TABLE 36 WIRELESS DEVICE TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 37 WIRELESS DEVICE TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2024–2029 (USD MILLION)

TABLE 38 WIRELESS NETWORK TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 39 WIRELESS NETWORK TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2024–2029 (USD MILLION)

TABLE 40 WIRELESS IC TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 41 WIRELESS IC TESTING MARKET, BY CONNECTIVITY TECHNOLOGY, 2024–2029 (USD MILLION)

TABLE 42 WIRELESS MODULE TESTING MARKET, BY CONNECTIVITY

TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 43 WIRELESS MODULE TESTING MARKET, BY CONNECTIVITY

TECHNOLOGY, 2024–2029 (USD MILLION)

7.2 5G

7.2.1 CAPABILITY OF 5G TECHNOLOGY TO DELIVER ENHANCED BROADBAND EXPERIENCE AND PROVIDE PLATFORM FOR CLOUD- AND AI-BASED SERVICES TO DRIVE MARKET

7.3 WI-FI

7.3.1 DIGITAL TRANSFORMATION INITIATIVES IN BUSINESSES TO DRIVE DEMAND

7.4 BLUETOOTH

7.4.1 RELIABILITY OF BLUETOOTH CONNECTIVITY IN MULTIPLE APPLICATIONS TO DRIVE DEMAND

7.5 GLOBAL POSITIONING SYSTEM (GPS)/GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) MODULE

7.5.1 RISING USE OF GPS IN MILITARY, CIVIL, AND COMMERCIAL APPLICATIONS TO DRIVE MARKET

7.6 2G/3G

7.6.1 SHIFTING OF CUSTOMER BASE TO 4G AND 5G TECHNOLOGIES TO HAMPER DEMAND

7.7 4G/LTE

7.7.1 DEMAND FOR HIGH-SPEED CONNECTIVITY SERVICES TO FUEL MARKET GROWTH

7.8 OTHER CONNECTIVITY TECHNOLOGIES

8 WIRELESS TESTING MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 38 WIRELESS TESTING MARKET, BY APPLICATION

FIGURE 39 IT & TELECOMMUNICATION SEGMENT TO HOLD LARGEST SHARE OF WIRELESS TESTING MARKET IN 2029

TABLE 44 WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 45 WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

8.2 CONSUMER ELECTRONICS

8.2.1 RISE IN DEMAND FOR WEARABLE DEVICES TO FUEL MARKET GROWTH

TABLE 46 CONSUMER ELECTRONICS: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 47 CONSUMER ELECTRONICS: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 48 CONSUMER ELECTRONICS: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 49 CONSUMER ELECTRONICS: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.2.2 TABLETS

8.2.3 LAPTOPS

8.2.4 SMARTPHONES

8.2.5 WEARABLES

8.2.6 OTHERS

8.3 AUTOMOTIVE

8.3.1 INCREASING DEMAND FOR AUTONOMOUS AND CONNECTED VEHICLES TO DRIVE MARKET

TABLE 50 AUTOMOTIVE: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 51 AUTOMOTIVE: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 52 AUTOMOTIVE: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 53 AUTOMOTIVE: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.3.2 VEHICLE ELECTRONICS

8.3.3 INFOTAINMENT SYSTEMS

8.3.4 BATTERY SYSTEMS

8.4 IT & TELECOMMUNICATION

8.4.1 RISE IN NUMBER OF MOBILE USERS AND INSTALLATION OF ANTENNAS AND TOWERS TO FUEL DEMAND

TABLE 54 IT & TELECOMMUNICATION: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 55 IT & TELECOMMUNICATION: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 56 IT & TELECOMMUNICATION: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 57 IT & TELECOMMUNICATION: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.4.2 ROUTERS, HOTSPOTS, ACCESS POINTS, GATEWAYS, AND MOBILE WI-FI (MIFI)

8.4.3 ANTENNAS AND TOWERS

8.5 ENERGY & POWER

8.5.1 TRANSMISSION OF POWER WITHOUT CABLES USING WIRELESS TECHNOLOGY DURING POWER GENERATION TO DRIVE MARKET

TABLE 58 ENERGY & POWER: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 59 ENERGY & POWER: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 60 ENERGY & POWER: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 61 ENERGY & POWER: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.5.2 POWER GENERATION

8.5.3 POWER DISTRIBUTION

8.5.4 OTHERS

8.6 MEDICAL DEVICES

8.6.1 HIGH NEED TO TEST AND CERTIFY WIRELESS MEDICAL DEVICES BY CONCERNED GOVERNMENT AGENCIES BEFORE COMMERCIAL USE TO DRIVE MARKET

TABLE 62 MEDICAL DEVICES: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 63 MEDICAL DEVICES: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 64 MEDICAL DEVICES: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 65 MEDICAL DEVICES: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.6.2 MEDICAL EQUIPMENT

8.6.3 LABORATORY DEVICES

8.7 AEROSPACE & DEFENSE

8.7.1 RISE IN USE OF WIRELESS TESTING TO CHECK DIFFERENT EQUIPMENT AND SYSTEMS USED IN AEROSPACE & DEFENSE INDUSTRY TO DRIVE MARKET

TABLE 66 AEROSPACE & DEFENSE: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 67 AEROSPACE & DEFENSE: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 68 AEROSPACE & DEFENSE: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 69 AEROSPACE & DEFENSE: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.8 INDUSTRIAL

8.8.1 GROWING ADOPTION OF WIRELESS SENSOR NETWORKS IN INDUSTRIAL SECTOR TO FUEL MARKET GROWTH

TABLE 70 INDUSTRIAL: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 71 INDUSTRIAL: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 72 INDUSTRIAL: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 73 INDUSTRIAL: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

8.9 OTHER APPLICATIONS

TABLE 74 OTHER APPLICATIONS: WIRELESS TESTING MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 75 OTHER APPLICATIONS: WIRELESS TESTING MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 76 OTHER APPLICATIONS: WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 77 OTHER APPLICATIONS: WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

9 WIRELESS TESTING MARKET, BY USE CASE

9.1 INTRODUCTION

FIGURE 40 WIRELESS TESTING MARKET, BY USE CASE

FIGURE 41 RESEARCH AND DEVELOPMENT (R&D) SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 78 WIRELESS TESTING MARKET, BY USE CASE, 2020–2023 (USD MILLION)

TABLE 79 WIRELESS TESTING MARKET, BY USE CASE, 2024–2029 (USD MILLION)

9.2 RESEARCH AND DEVELOPMENT (R&D)

9.2.1 GROWING NEED FOR DEVELOPING 5G WIRELESS MODULES AND WI-FI 6E TO DRIVE MARKET

9.3 PRODUCTION

9.3.1 PRESENCE OF VARIOUS COMPANIES OFFERING TEST SETUP SOLUTIONS TO DRIVE MARKET

9.4 RETURN MERCHANDISE AUTHORIZATION (RMA)

9.4.1 RISING E-COMMERCE TRENDS, CUSTOMER EXPECTATIONS, AND

TECHNOLOGICAL ADVANCEMENTS TO DRIVE MARKET

9.5 OTHER USE CASES

10 WIRELESS TESTING MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 42 INDIA TO REGISTER HIGHEST CAGR IN GLOBAL WIRELESS TESTING MARKET DURING FORECAST PERIOD

FIGURE 43 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 80 WIRELESS TESTING MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 81 WIRELESS TESTING MARKET, BY REGION, 2024–2029 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 44 NORTH AMERICA: WIRELESS TESTING MARKET SNAPSHOT

TABLE 82 NORTH AMERICA: WIRELESS TESTING MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 83 NORTH AMERICA: WIRELESS TESTING MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 84 NORTH AMERICA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 85 NORTH AMERICA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.2.1 US

10.2.1.1 Increased demand for automobile electronics to drive market

TABLE 86 US: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 87 US: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.2.2 CANADA

10.2.2.1 Rise in adoption of wireless services and products to fuel market growth

TABLE 88 CANADA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 89 CANADA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.2.3 MEXICO

10.2.3.1 Increasing smart building and smart home initiatives to drive market

TABLE 90 MEXICO: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 91 MEXICO: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029

(USD MILLION)

10.2.4 IMPACT OF RECESSION ON WIRELESS TESTING MARKET IN NORTH AMERICA

10.3 EUROPE

FIGURE 45 EUROPE: WIRELESS TESTING MARKET SNAPSHOT

TABLE 92 EUROPE: WIRELESS TESTING MARKET, BY COUNTRY, 2020–2023
(USD MILLION)

TABLE 93 EUROPE: WIRELESS TESTING MARKET, BY COUNTRY, 2024–2029
(USD MILLION)

TABLE 94 EUROPE: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023
(USD MILLION)

TABLE 95 EUROPE: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029
(USD MILLION)

10.3.1 UK

10.3.1.1 Development of smart cities to drive demand

TABLE 96 UK: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 97 UK: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.3.2 GERMANY

10.3.2.1 Smart utility and smart city projects to increase demand

TABLE 98 GERMANY: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 99 GERMANY: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.3.3 SPAIN

10.3.3.1 Adoption of EU directives to develop certification and testing standards to drive market

TABLE 100 SPAIN: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 101 SPAIN: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.3.4 FRANCE

10.3.4.1 Presence of renowned car manufacturers to drive demand

TABLE 102 FRANCE: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 103 FRANCE: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.3.5 ITALY

10.3.5.1 Development of new wireless network for IoT to fuel demand

TABLE 104 ITALY: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023
(USD MILLION)

TABLE 105 ITALY: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029
(USD MILLION)

10.3.6 SWITZERLAND

10.3.6.1 Large presence of companies providing testing, inspecting, and certifying services to drive market

TABLE 106 SWITZERLAND: WIRELESS TESTING MARKET, BY APPLICATION,
2020–2023 (USD MILLION)

TABLE 107 SWITZERLAND: WIRELESS TESTING MARKET, BY APPLICATION,
2024–2029 (USD MILLION)

10.3.7 REST OF EUROPE

TABLE 108 REST OF EUROPE: WIRELESS TESTING MARKET, BY APPLICATION,
2020–2023 (USD MILLION)

TABLE 109 REST OF EUROPE: WIRELESS TESTING MARKET, BY APPLICATION,
2024–2029 (USD MILLION)

10.3.8 IMPACT OF RECESSION ON WIRELESS TESTING MARKET IN EUROPE

10.4 ASIA PACIFIC

FIGURE 46 ASIA PACIFIC: WIRELESS TESTING MARKET SNAPSHOT

TABLE 110 ASIA PACIFIC: WIRELESS TESTING MARKET, BY COUNTRY,
2020–2023 (USD MILLION)

TABLE 111 ASIA PACIFIC: WIRELESS TESTING MARKET, BY COUNTRY,
2024–2029 (USD MILLION)

TABLE 112 ASIA PACIFIC: WIRELESS TESTING MARKET, BY APPLICATION,
2020–2023 (USD MILLION)

TABLE 113 ASIA PACIFIC: WIRELESS TESTING MARKET, BY APPLICATION,
2024–2029 (USD MILLION)

10.4.1 JAPAN

10.4.1.1 Significant deployment of advanced wireless infrastructures to drive market

TABLE 114 JAPAN: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023
(USD MILLION)

TABLE 115 JAPAN: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029
(USD MILLION)

10.4.2 CHINA

10.4.2.1 Deployment of 5G services to fuel market

TABLE 116 CHINA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023
(USD MILLION)

TABLE 117 CHINA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029

(USD MILLION)

10.4.3 INDIA

10.4.3.1 Launch of 4G and 5G networks to fuel market growth

TABLE 118 INDIA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023

(USD MILLION)

TABLE 119 INDIA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029

(USD MILLION)

10.4.4 SOUTH KOREA

10.4.4.1 Increasing R&D and field trials for 5G technology to fuel market growth

TABLE 120 SOUTH KOREA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 121 SOUTH KOREA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.4.5 TAIWAN

10.4.5.1 Growing adoption of IoT, smart machinery, and biochemical and medical care technologies to drive market

TABLE 122 TAIWAN: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 123 TAIWAN: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.4.6 AUSTRALIA

10.4.6.1 Development of mature regulatory framework for ICT products to fuel demand

TABLE 124 AUSTRALIA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 125 AUSTRALIA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.4.7 SINGAPORE

10.4.7.1 Government-led frequency band fee waivers for 5G trials to drive demand

TABLE 126 SINGAPORE: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 127 SINGAPORE: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.4.8 REST OF ASIA PACIFIC

TABLE 128 REST OF ASIA PACIFIC: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 129 REST OF ASIA PACIFIC: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.4.9 IMPACT OF RECESSION ON WIRELESS TESTING MARKET IN ASIA

PACIFIC

10.5 ROW

TABLE 130 ROW: WIRELESS TESTING MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 131 ROW: WIRELESS TESTING MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 132 ROW: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 133 ROW: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.5.1 SOUTH AMERICA

10.5.1.1 Increased demand for improved data transfer speed to drive market

TABLE 134 SOUTH AMERICA: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 135 SOUTH AMERICA: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.5.2 GCC

10.5.2.1 Increasing implementation of smart grids and smart city projects to drive market

TABLE 136 GCC: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 137 GCC: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

10.5.3 REST OF MIDDLE EAST & AFRICA

TABLE 138 REST OF MIDDLE EAST: WIRELESS TESTING MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 139 REST OF MIDDLE EAST: WIRELESS TESTING MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 KEY STRATEGIES ADOPTED BY MAJOR PLAYERS

TABLE 140 WIRELESS TESTING MARKET: OVERVIEW OF STRATEGIES DEPLOYED BY KEY PLAYERS, 2020–2024

11.2.1 PRODUCT PORTFOLIO

11.2.2 REGIONAL FOCUS

11.2.3 ORGANIC/INORGANIC GROWTH STRATEGIES

11.3 MARKET SHARE ANALYSIS, 2023

FIGURE 47 WIRELESS TESTING SERVICE MARKET: REVENUE ANALYSIS OF TOP FIVE PLAYERS, 2023

TABLE 141 WIRELESS TESTING SERVICE MARKET SHARE ANALYSIS, 2023

FIGURE 48 WIRELESS TESTING EQUIPMENT MARKET: REVENUE ANALYSIS OF TOP THREE PLAYERS, 2023

TABLE 142 WIRELESS TESTING EQUIPMENT MARKET SHARE ANALYSIS, 2023

11.4 REVENUE ANALYSIS, 2018–2022

FIGURE 49 WIRELESS TESTING MARKET: REVENUE ANALYSIS OF KEY PLAYERS, 2018–2022

11.5 COMPANY VALUATION AND FINANCIAL METRICS, 2022

FIGURE 50 COMPANY VALUATION, 2022 (USD BILLION)

FIGURE 51 FINANCIAL METRICS (EV/EBITDA), 2022

11.6 BRAND/PRODUCT COMPARISON

FIGURE 52 BRAND/PRODUCT COMPARISON

11.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

11.7.1 STARS

11.7.2 EMERGING LEADERS

11.7.3 PERVASIVE PLAYERS

11.7.4 PARTICIPANTS

FIGURE 53 WIRELESS TESTING MARKET: COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

11.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

11.7.5.1 Overall footprint

FIGURE 54 COMPANY OVERALL FOOTPRINT

11.7.5.2 Application footprint

TABLE 143 COMPANY APPLICATION FOOTPRINT

11.7.5.3 Offering footprint

TABLE 144 COMPANY OFFERING FOOTPRINT

11.7.5.4 Connectivity technology footprint

TABLE 145 COMPANY CONNECTIVITY TECHNOLOGY FOOTPRINT

11.7.5.5 Region footprint

TABLE 146 COMPANY REGION FOOTPRINT

11.8 COMPANY EVALUATION MATRIX: START-UPS/SMES, 2023

11.8.1 PROGRESSIVE COMPANIES

11.8.2 RESPONSIVE COMPANIES

11.8.3 DYNAMIC COMPANIES

11.8.4 STARTING BLOCKS

FIGURE 55 WIRELESS TESTING MARKET: COMPANY EVALUATION MATRIX: START-UPS/SMES, 2023

11.8.5 COMPETITIVE BENCHMARKING: START-UPS/SMES, 2023

11.8.5.1 Competitive benchmarking of key start-ups/SMEs

TABLE 147 WIRELESS TESTING MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

11.8.5.2 List of key start-ups/SMEs

TABLE 148 WIRELESS TESTING MARKET: LIST OF KEY START-UPS/SMES

11.9 COMPETITIVE SCENARIOS AND TRENDS

11.9.1 PRODUCT LAUNCHES

TABLE 149 WIRELESS TESTING MARKET: PRODUCT LAUNCHES, NOVEMBER 2021–JANUARY 2024

11.9.2 DEALS

TABLE 150 WIRELESS TESTING MARKET: DEALS, JANUARY 2022–JANUARY 2024

11.9.3 EXPANSIONS

TABLE 151 WIRELESS TESTING MARKET: EXPANSIONS, MAY 2022–APRIL 2023

12 COMPANY PROFILES

(Business overview, Products/Services/Solutions offered, Recent Developments, MNM view)*

12.1 KEY PLAYERS

12.1.1 SGS S.A.

TABLE 152 SGS S.A.: COMPANY OVERVIEW

FIGURE 56 SGS S.A.: COMPANY SNAPSHOT

TABLE 153 SGS S.A.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 154 SGS S.A.: DEALS

12.1.2 BUREAU VERITAS

TABLE 155 BUREAU VERITAS: COMPANY OVERVIEW

FIGURE 57 BUREAU VERITAS: COMPANY SNAPSHOT

TABLE 156 BUREAU VERITAS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 157 BUREAU VERITAS: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 158 BUREAU VERITAS: DEALS

TABLE 159 BUREAU VERITAS: EXPANSIONS

12.1.3 INTERTEK

TABLE 160 INTERTEK: COMPANY OVERVIEW

FIGURE 58 INTERTEK: COMPANY SNAPSHOT

TABLE 161 INTERTEK: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 162 INTERTEK: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 163 INTERTEK: DEALS

TABLE 164 INTERTEK: EXPANSIONS

12.1.4 DEKRA SE

TABLE 165 DEKRA SE: COMPANY OVERVIEW

TABLE 166 DEKRA SE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 167 DEKRA SE: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 168 DEKRA SE: DEALS

12.1.5 ANRITSU

TABLE 169 ANRITSU: COMPANY OVERVIEW

FIGURE 59 ANRITSU: COMPANY SNAPSHOT

TABLE 170 ANRITSU: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 171 ANRITSU: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 172 ANRITSU: DEALS

12.1.6 ALIFECOM TECHNOLOGY

TABLE 173 ALIFECOM TECHNOLOGY: COMPANY OVERVIEW

TABLE 174 ALIFECOM TECHNOLOGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 175 ALIFECOM TECHNOLOGY: PRODUCT LAUNCHES/DEVELOPMENTS

12.1.7 KEYSIGHT TECHNOLOGIES

TABLE 176 KEYSIGHT TECHNOLOGIES: COMPANY OVERVIEW

FIGURE 60 KEYSIGHT TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 177 NXP SEMICONDUCTORS NV: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 178 KEYSIGHT TECHNOLOGIES: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 179 KEYSIGHT TECHNOLOGIES: DEALS

12.1.8 ROHDE & SCHWARZ

TABLE 180 ROHDE & SCHWARZ: COMPANY OVERVIEW

TABLE 181 ROHDE & SCHWARZ: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 182 ROHDE & SCHWARZ: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 183 ROHDE & SCHWARZ: DEALS

12.1.9 VIAVI SOLUTIONS INC.

TABLE 184 VIAVI SOLUTIONS INC.: COMPANY OVERVIEW

FIGURE 61 VIAVI SOLUTIONS INC.: COMPANY SNAPSHOT

TABLE 185 VIAVI SOLUTIONS INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 186 VIAVI SOLUTIONS INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 187 VIAVI SOLUTIONS INC.: DEALS

12.1.10 T?V NORD GROUP

TABLE 188 T?V NORD GROUP: COMPANY OVERVIEW

FIGURE 62 T?V NORD GROUP: COMPANY SNAPSHOT

TABLE 189 T?V NORD GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.2 OTHER PLAYERS

- 12.2.1 EXFO INC.
- 12.2.2 T?V RHEINLAND
- 12.2.3 T?V S?D
- 12.2.4 SPIRENT COMMUNICATIONS
- 12.2.5 EUROFINS SCIENTIFIC
- 12.2.6 APPLUS+
- 12.2.7 VERKOTAN
- 12.2.8 TESTILABS OY
- 12.2.9 ELEMENT MATERIALS TECHNOLOGY
- 12.2.10 EVTL INDIA
- 12.2.11 QUADSAT
- 12.2.12 IOTAS LTD
- 12.2.13 ELECTRO MAGNETIC TEST, INC
- 12.2.14 TESSOLVE
- 12.2.15 TIMCO ENGINEERING, INC.

*Details on Business overview, Products/Services/Solutions offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

13 APPENDIX

- 13.1 DISCUSSION GUIDE
- 13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 13.3 CUSTOMIZATION OPTIONS
- 13.4 RELATED REPORTS
- 13.5 AUTHOR DETAILS

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