

Shenzhen Kuruijie Communication Technology Co., LTD
Antenna Test Report

1. Explanation of part number:

Supplier: Shenzhen Kuruijie Communication Technology Co., LTD

Frequency: 2400-2500MHz, 5150-5850MHz

Antenna Material: FPC (Built-in / Embedded Antenna)

Antenna model: 416KR0100050

2. Electrical Specification:

2-1. Frequency Band:

Frequency	MHz
WiFi2.4G、WiFi5.8G、BT	2400-2500MHz, 5150-5850MHz

Frequency Band: WiFi2.4G、WiFi5.8G

Bluetooth: 2.4GHZ

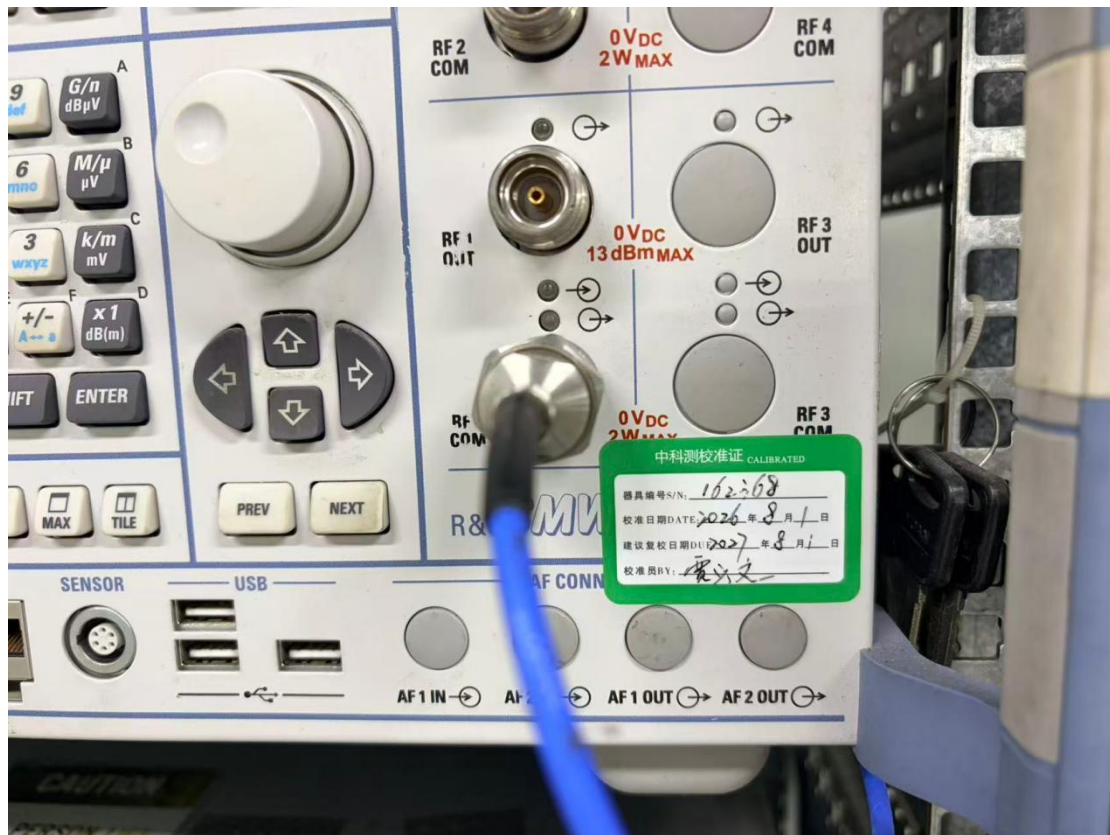
Date: 2026.8.13

**ADD : 5C Building, Units 407-409, Huaqiang
Creative Industry Park, Biyan Community,
Guangming Street, Guangming District,
Shenzhen, China.**

1. Test Project

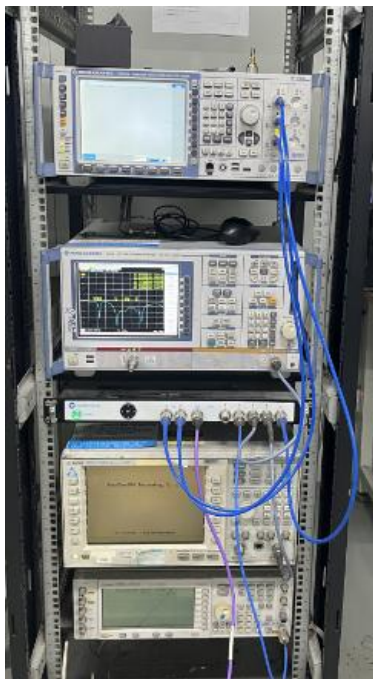
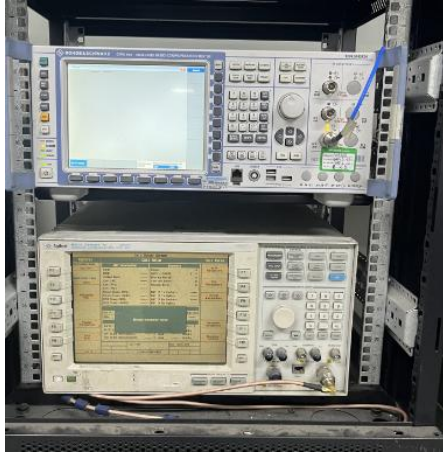
	Test Project	Equipment
1. S Parameter	1. Return Loss(RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (WiFi+BT)	1. power 2. level 3. TRP/TIS	Comprehensive Test: CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment

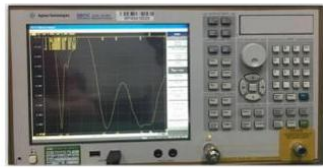


CMW 500 (WIFI Test Equipment)

3. TestEnvironment



Antenna debugging equipment



E5071C



HP8753D



ROHDE&SCHWARZ-ZVL



ROHDE&SCHWARZ



HP885046A



CMU200

Our company has a number of OTA test darkrooms, ranging from 400MHz to

8.5ghz, which can provide passive test and active test (including OTA overall

2G,3G,4G,5GFR test, WiFi multi-mode test, GPS active test, Bluetooth active test,

which can provide antenna gain and efficiency. 2D orientation and apple chart

analysis and upper and lower hemisphere efficiency values, mutual disturbance

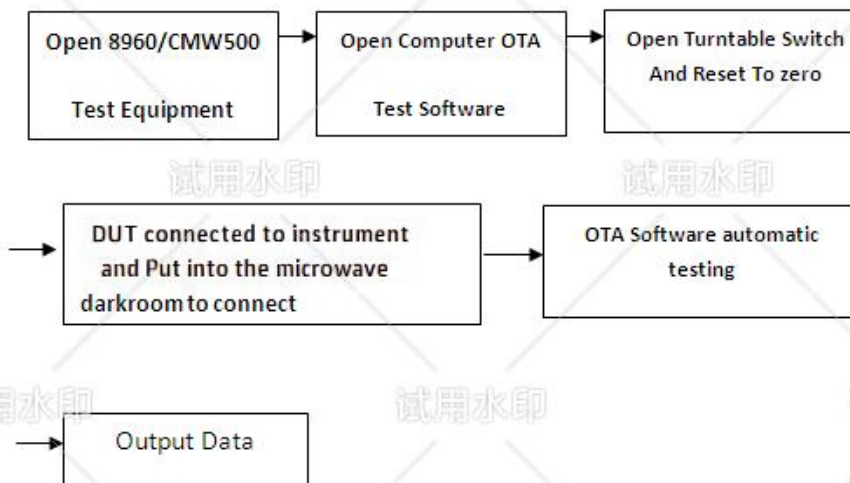
correlation coefficient test items

4. Test Steps

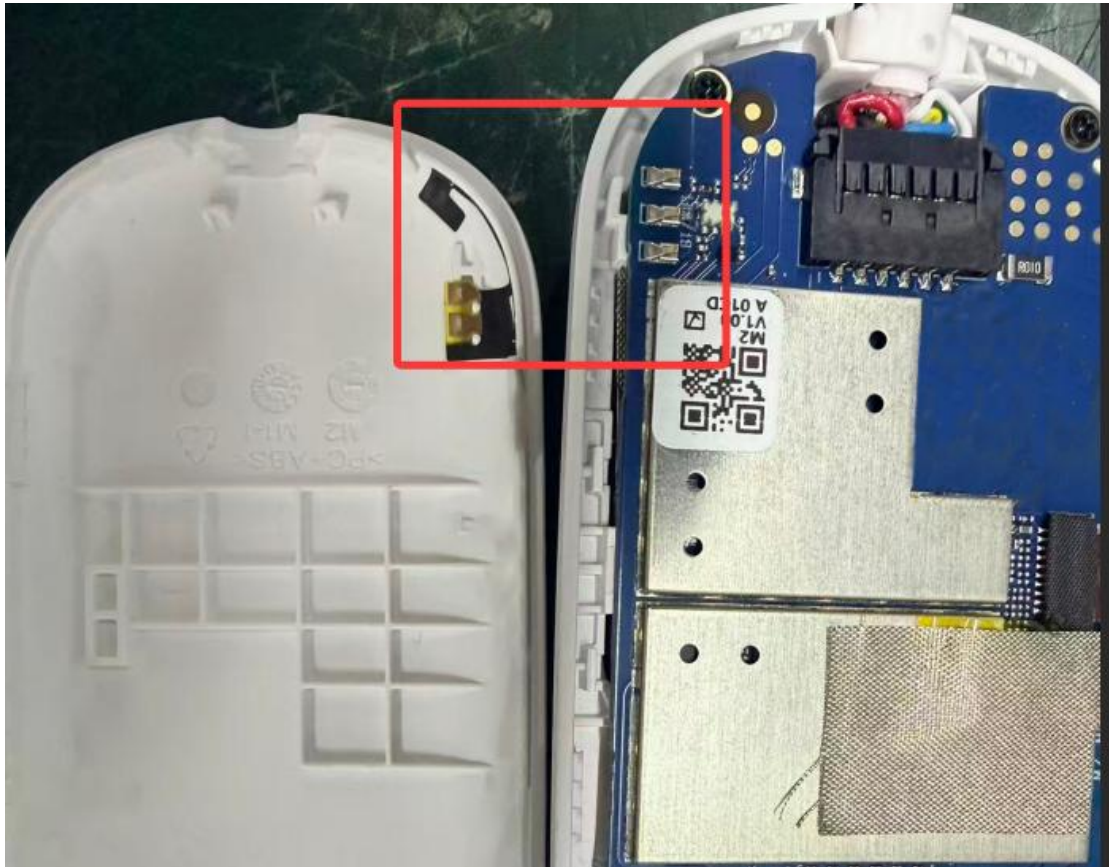
Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



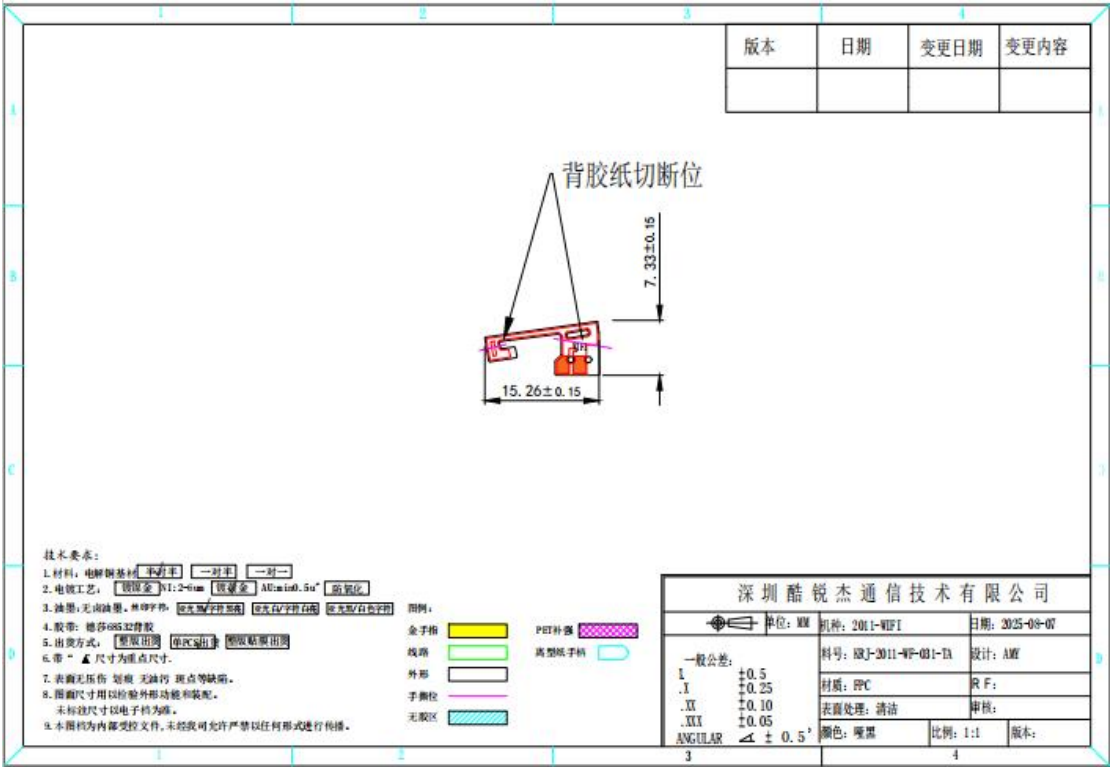
5. Antenna Placement



WiFi2.4G、WiFi5.8G

BT: 2.4GHZ

6. Antenna Dimensions



7. Antenna Gain

Frequency	Maximum Gain(dBi)
WiFi 2.4G (2400-2500MHz)	1.0
WiFi 5.8G (5150-5850MHz)	1.1
BT (2400-2500MHz)	1.0

8. 3D Radiation Pattern of the Wi-Fi Antenna

