



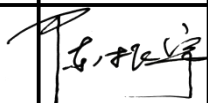
Antenna Sample Confirmation From

Guangdong Jianbotong
Securities Code: 831958

深圳健海通天线技术有限公司

Antenna Specification Sheet

Antenna Sample Confirmation From

Supplier Name Vendor Name	Shenzhen Jianhaitong Antenna Technology Co., Ltd. Shenzhen kenhaitong antenna technology co, ltd				
Customer name Customer Name					
Sample Name Sample Name	Bluetooth antenna				
Product Model Part Number					
Sample Specifications Specification	Red 30.5*0.6 mm				
Inspecting item Inspection Item	Performance Testing Performance	Appearance inspection Total Appearance	Structure structure	Other Others	Inspection Results Result
					
Remark					
Quality Audit QA Audit	Huang Xia	Engineering Review Engineer Audit	Feng Guoqing	Business Confirmation Sales Confirm	Golden Spirit 13823389991
To be completed by the customer. The following are filled by Customer					
Customer Feedback Customer Evaluation					
Customer Signature/Seal Signation/ Chapter by Customer	Date/date:				

Address: 3rd Floor, West Side, Building 1, Hezhou Zhongkenuo Industrial Park, Hangcheng Subdistrict, Bao'an District, Shenzhen

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Antenna Test Report

Testing Entity: Shenzhen Jianhai Tongtian Antenna Technology Co., Ltd. Test by: Shenzhen kenhaitong antenna technology co, ltd			
Material	Electronic wire antenna		
Antenna Type	Internal Antenna	Polarization mode Polarization mode	Linear
Application Scenario			
Operating frequency band	2400-2500MHz	Standing Wave Ratio (VSWR)	≤1.5
Power Power	Max: 2W	Impedance Impedance	50Ω
Gain dBi	≥2dBi		
Testing facility Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description:: 1. Grounding processing and picture description: no 2. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification: test the specified power level, all indicators must conform to the specifications.			



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1、 Antenna and product images

2、 Test Fixture

3、 Matching circuit

4、 S11 Testing

4.0 S11 Testing Methodology Guide

4.1 S11 Specifications

4.2 S11 Specifications & Images

5、 Darkroom testing equipment and data

5.0 testing facility

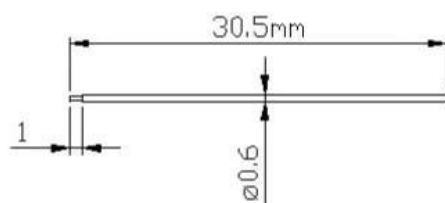
5.1 Antenna passive efficiency and gain

6、 Antenna Environmental Processing

7、 Reliability Test Report

8、 manner of packing

1、 Antenna specifications and product images



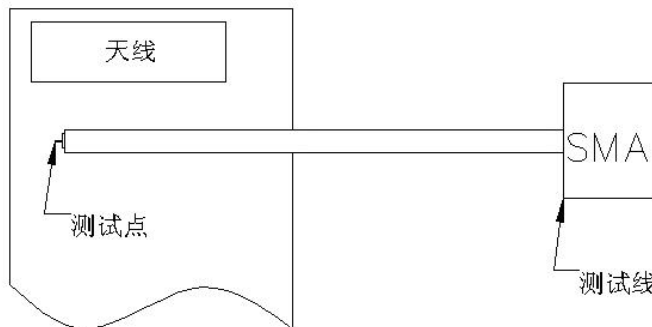
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2、Test Fixture

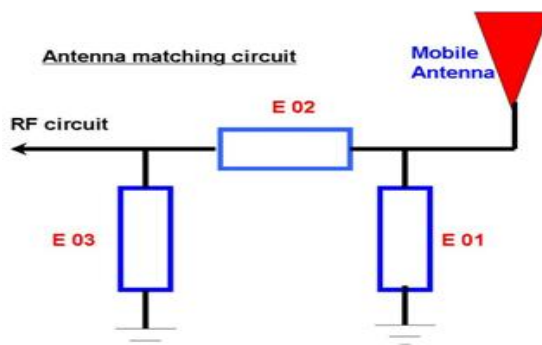
Objective: To measure the passive parameters of an antenna as accurately as possible.

Construction method: The handheld device uses a 50-ohm coaxial cable; one end is connected to a test point at the rear end of the matching circuit on the mobile phone's motherboard (the front end of the RF test port), and the other end is connected to an SMA connector.

The schematic diagram is shown below:



3、Antenna Matching Circuit



Modify

E01	E02	E03
No	No	No

Note: Match without modification.

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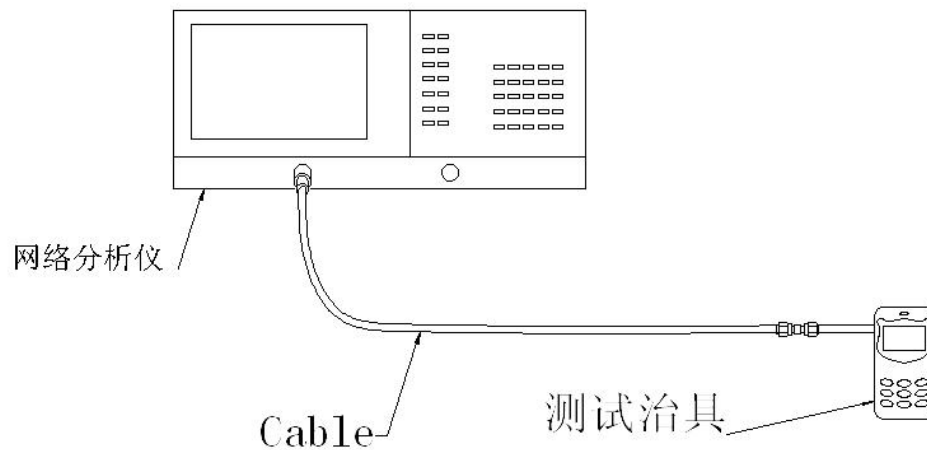
4、 S11 Testing

4.0 S11 Testing Methodology Guide

Test equipment: Network Analyzer (E5071C)

Test method: Use a 50 Ω cable to connect from the instrument's test port; after calibrating with a calibration component, connect it to the SMA connector of the mobile phone fixture, and record the return loss and standing wave ratio corresponding to the relevant frequency points.

The test schematic diagram is shown below:



Test Schematic Diagram

4.1 S11 Specifications

Frequency(MHZ)	2400	2450	2483
Standing wave ratio	1.34	1.55	1.68





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5、Darkroom Testing Equipment and Data

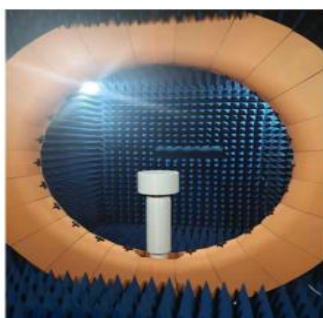
5.0 testing facility

Test System: Shielded Test Chamber

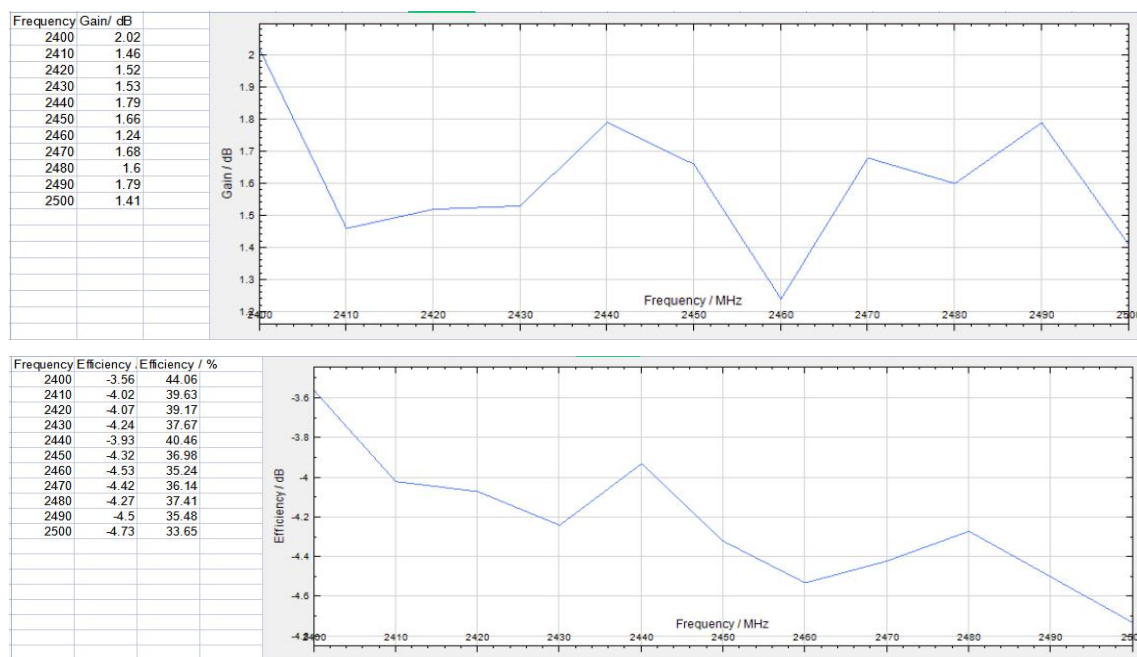
Test environment: Temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$; Humidity $50\% \pm 15\%$

Test equipment: For testing passive data, use an Agilent E5071C network analyzer.

When testing active data, use the CMW500 Comprehensive Test Instrument.



5.1 Antenna Passive Gain and Efficiency



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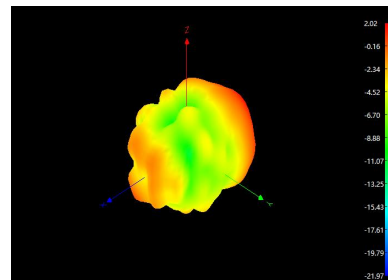
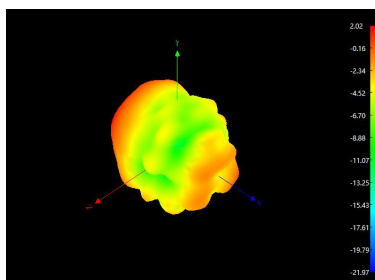
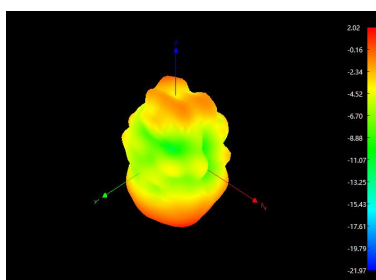
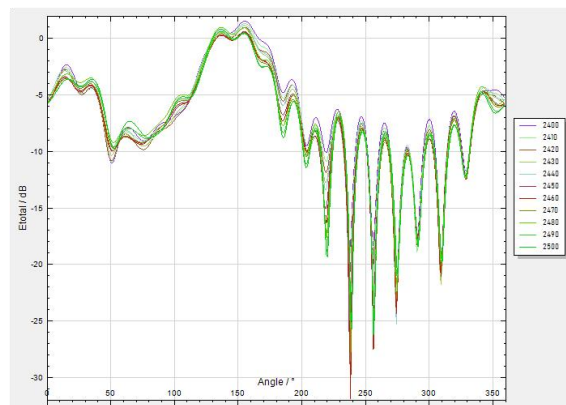
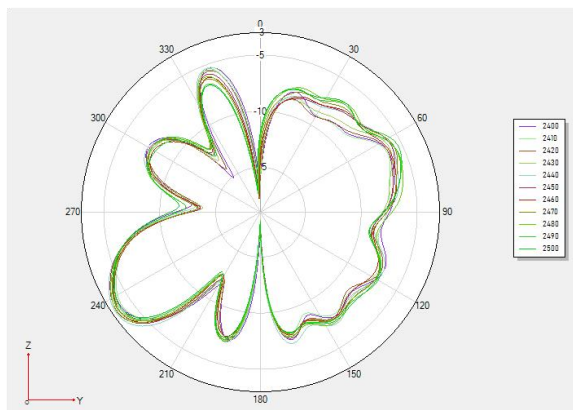


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