

深圳市艾汇科技有限公司
ShenZhen Aihui Technology Co., Ltd

Antenna Sample Confirmation From

Vendor Name	ShenZhen Aihui Technology Co., Ltd				
Customer Name	Ke Jinming				
Sample Name	K201-AA				
Part Number	projector				
Specification	Product Code;E.026.00096.00 WIFIwire length: 90mm 1Terminal substitute blackness Terminal facing downward silk-screen : K201-AA-WIFI-AH Product Code;E.026.00097.00 BTwire length: 55mm 1Terminal substitute grayness Terminal facing downward silk-screen : K201-AA-BT-AH				
Inspection Item	Performance	Total Appearance	structure	Others	Inspection Result
Remark					
QA Audit		Engineer Audit	曹恩典	Sales Confirm	
The following are filled by Customer					
Customer Evaluation					
Signation/ Chapter by Customer	date:2026.09.14				

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TEL: 0755-23203435 FAX: 0755-23203435

Antenna Specifications

Test by: ShenZhen Aihui Technology Co. , Ltd			
Material	FPC		
Antenna Type	MonopoleType	Polarization mode	Linear
Application			
Band	2.4G/5.8GWIFI/BT	VSWR	≤2
Power	Max: 2W	Impedance	50Ω
dBi	≥1dBi		
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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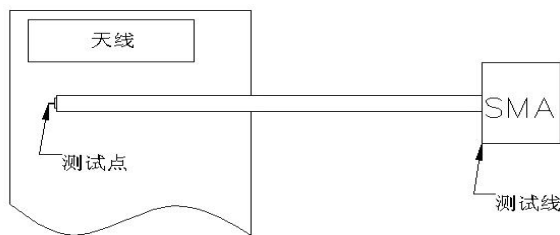
1、Project Images

None

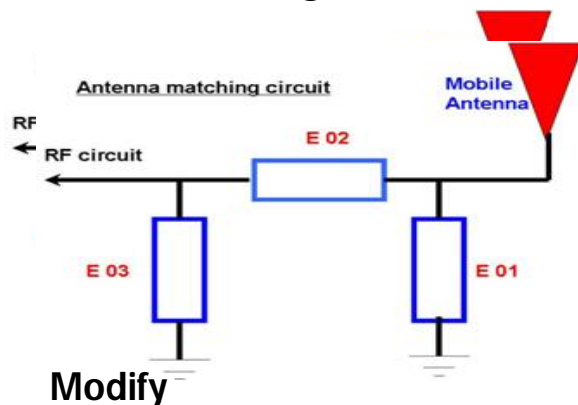
Note: The customer shall retain the antenna performance prototype for at least one year at our company to facilitate analysis and resolution of any anomalies encountered during mass production, thereby ensuring the quality of the final antenna shipments.

2、 Purpose of the test fixture: To measure the antenna's passive parameters as accurately as possible.

Construction method: The mobile phone test fixture utilizes a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit (front end of the RF test port) on the mobile phone's motherboard, and the other end connected to an SMA connector. The schematic diagram is shown below.:



3、 Antenna Matching Circuit



E01	E02	E03
No	No	No

Note: No matching modifications required.

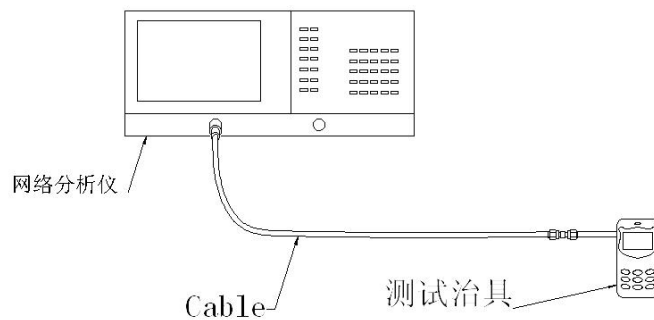
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4. S11test

4.0 S11Test Method Description: Test Equipment: Network Analyzer (E5071C).
Test Procedure: Use a 50-ohm cable to connect from the instrument's test port; after calibrating with a calibration standard, connect it to the SMA connector of the mobile device adapter, and record the echo loss and standing wave ratio at the corresponding frequencies.

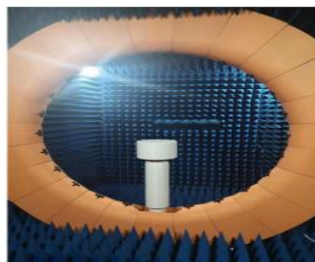
The test schematic is shown below:



Test schematic diagram

5、Darkroom testing equipment and data

5.0Test equipment and test system: Shielded darkroom test environment:
Temperature: $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$; Humidity: $50\% \pm 15\%$; Test equipment: For passive data testing, use an oscilloscope (Agilent E5071C); for active data testing, use a comprehensive measurement instrument (CMW500).



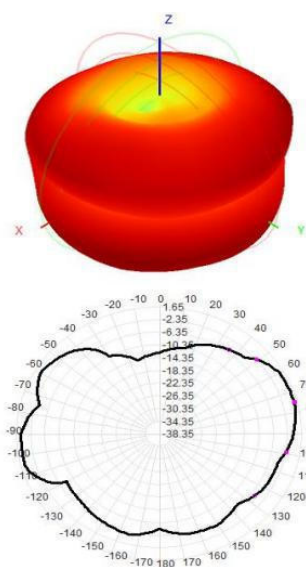
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5.1Antenna Active Test Data

Frequency Band	2.4GWIFI-B模			2.4WIFI-G模		
channel	L	M	H	L	M	H
TRP	13.52	12.55	12.71	12.11	12.32	11.85
TIS	-80.25	-79.88	-78.55	-69.55	-69.74	-68.55
Frequency Band	2.4WIFI-N模			5.8WIFI-A模		
channel	L	M	H	L	M	H
TRP	11.52	12.05	11.54	15.55	15.41	14.25
TIS	-67.55	-67.14	-66.95	-71.55	-72.65	-71.48

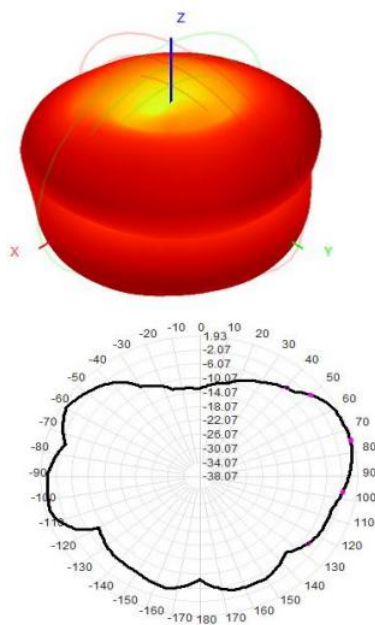
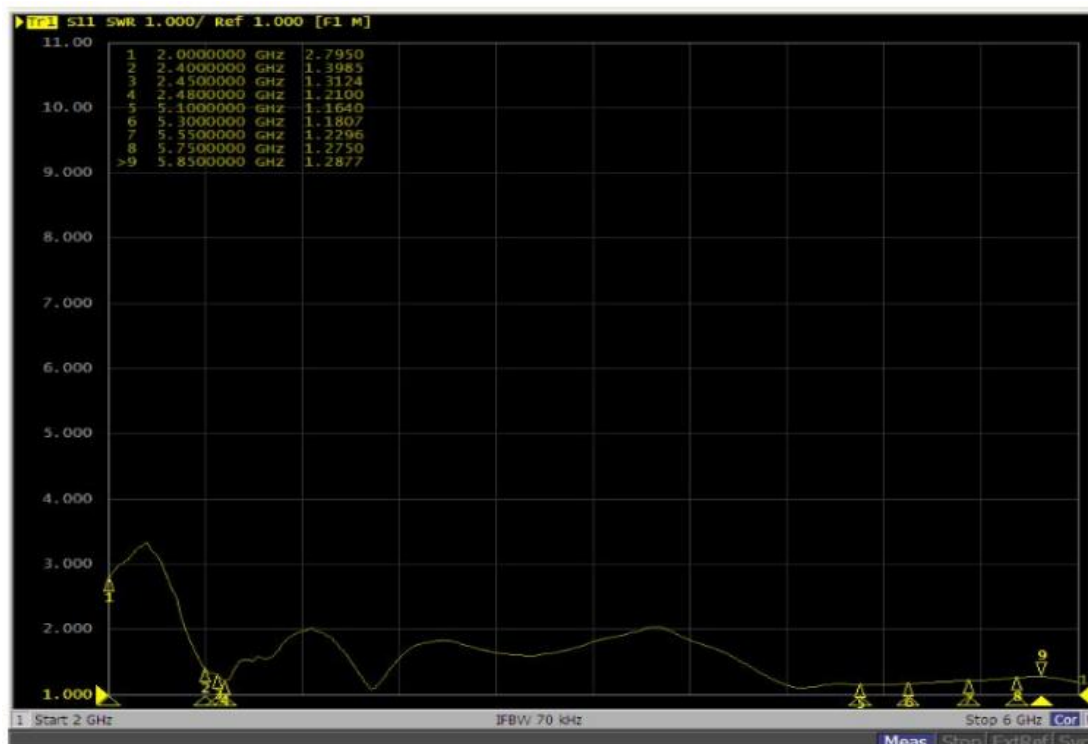
5.2Antenna passive test data



测试数据:		
BT		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	55.25	1.25
2410	55.41	1.47
2420	57.65	1.35
2430	59.65	1.44
2440	61.41	1.93
2450	60.54	1.52
2460	62.63	1.44
2470	64.15	1.65
2480	59.64	1.23

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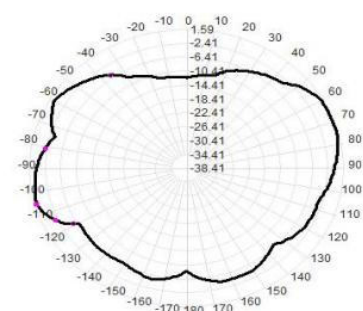
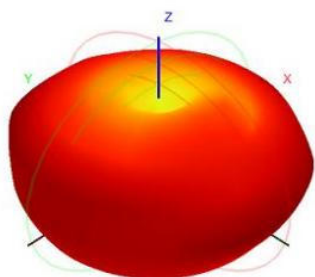
测试数据:

WIFI 2.4G

Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	52.33	1.71
2410	54.14	1.63
2420	58.63	1.49
2430	57.16	1.93
2440	54.30	1.55
2450	53.22	1.16
2460	54.16	1.25
2470	55.90	1.30
2480	53.31	1.41

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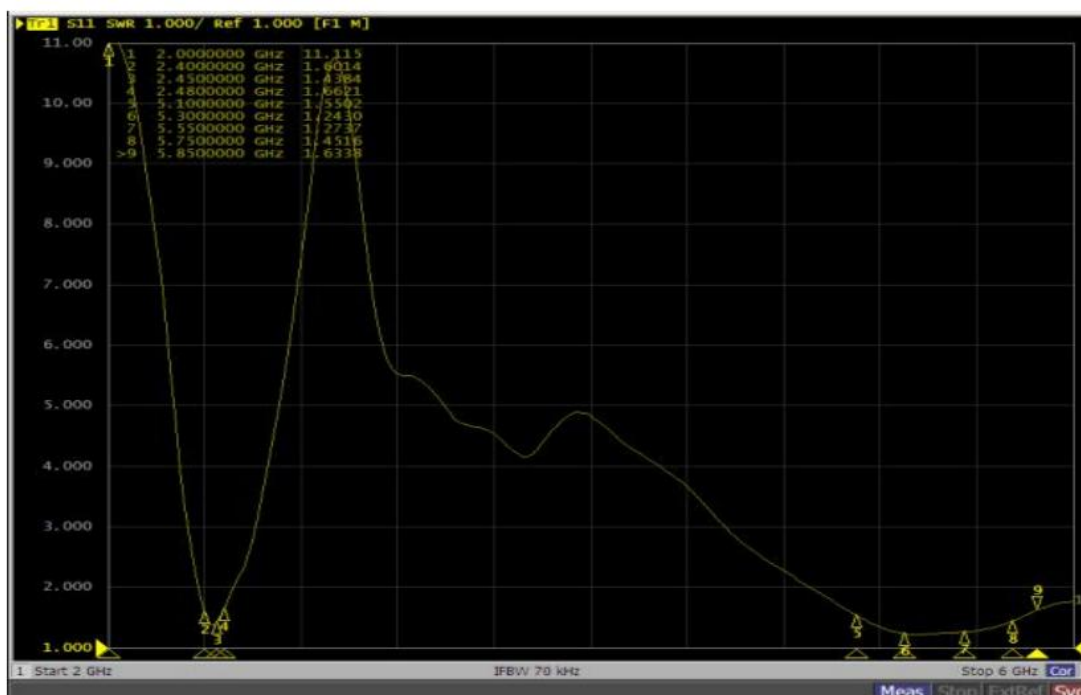
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测试数据:

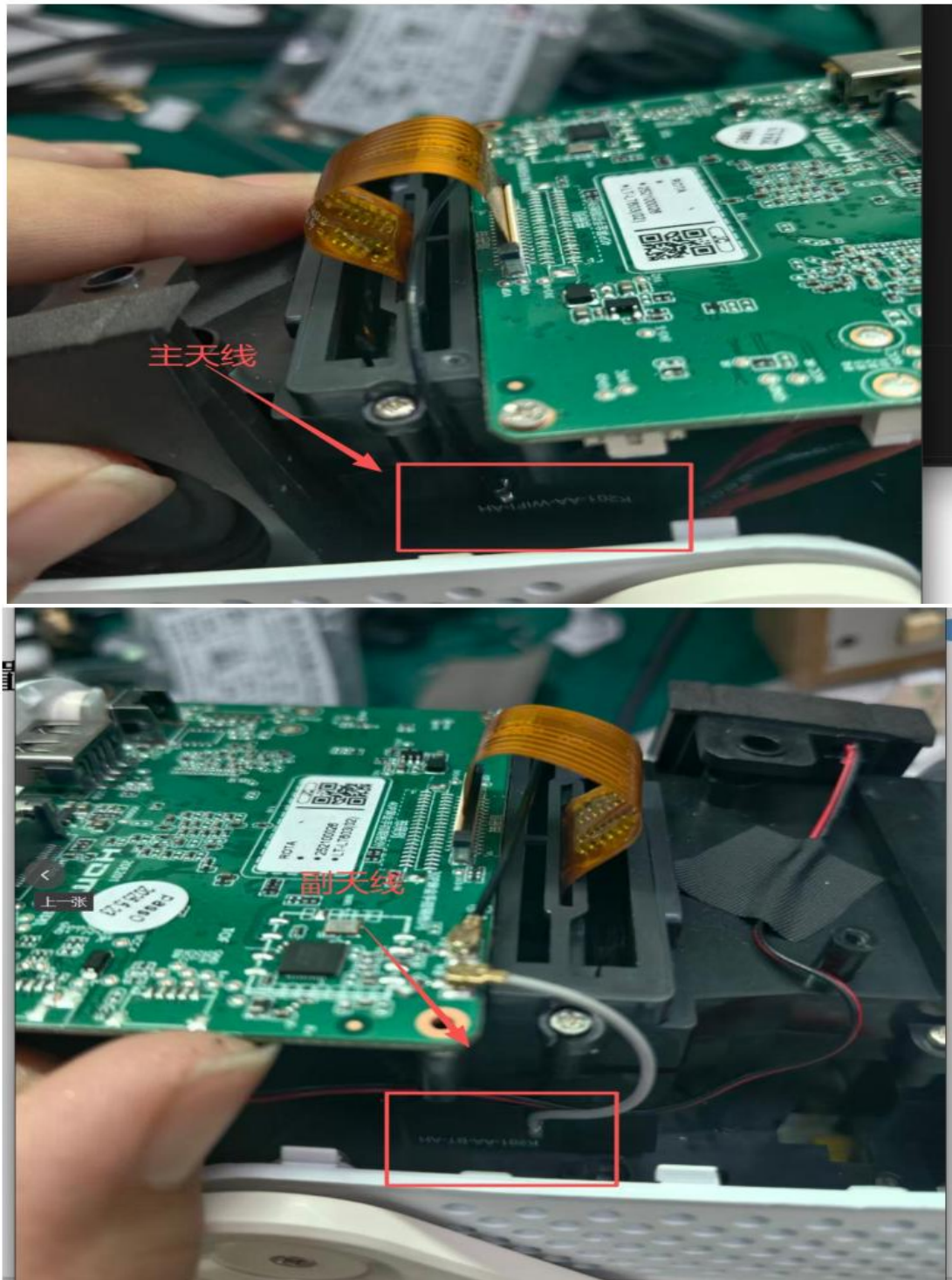
WIFI 5.8G

Freq(MHz)	Efficiency (%)	Gain (dBi)
5000	59.11	1.42
5100	57.11	1.30
5200	58.33	1.16
5300	54.25	1.32
5400	52.30	1.44
5500	53.66	1.30
5600	54.62	1.42
5700	54.15	1.25
5800	52.36	1.59
5850	54.16	1.15



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6. Antenna Assembly Schematic Diagram



8.Environmental treatment

Original prototype environmental conditioning - No changes

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9.ANTENNA MASS PRODUCTION METRICS

During mass production of antennas, the Standing Wave Ratio (SWR) is used as the mass-production testing criterion. Depending on the specific project requirements, the following standards are applied:

频率	量产标准
2400MHZ-2500MHZ	VSWR（量产性能）<VSWR(承认性能)+0.5
5100MHZ-5850MHZ	VSWR（量产性能）<VSWR(承认性能)+0.5

10.structural drawings

