

天线规格书

Antenna Sample Confirmation From

Vendor Name	ShenZhen Aihui Technology Co. , Ltd				
Customer Name	Shenzhen Kejinming Electronic Co. ,Ltd				
Sample Name	2218				
Part Number	FPC				
Specification	/				
Inspection Item	Performance	Total Appearance	structure	Others	Inspection Result
Remark					
QA Audit		Engineer Audit		Sales Confirm	
The following are filled by Customer					
Customer Evaluation					
Signation/ Chapter by Customer	date:				

Antenna Test Report

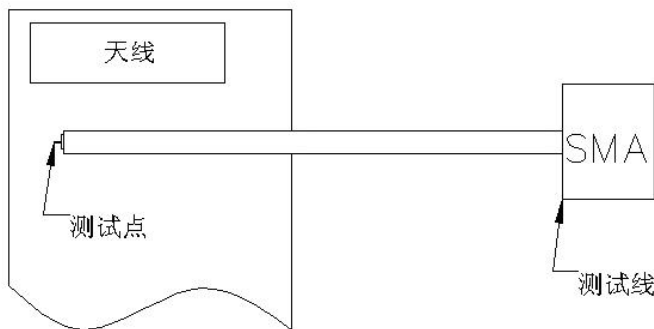
henZhen Ai hui Technology Co. , Ltd

Test by: ShenZhen Aihui Technology Co. , Ltd			
Material	FPC+Line		
Antenna Type	FPC	Polarization mode	Linear
Application			
Band	2400Mhz-2500Mhz	VSWR	≤2
Power	Max: 2W	Impedance	50Ω
dBi	1.31dBi Max		
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
<p>Antenna Description::</p> <p>1. Grounding processing and picture description: no</p> <p>2. Need to change the motherboard to match: no</p> <ul style="list-style-type: none">● 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. <p>Specification:test the specified power level, all indicators must conform to the specifications.</p>			

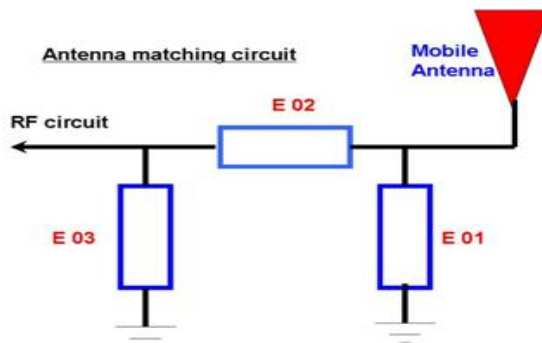
1、Tool of test

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

How to make it: A 50 ohm coaxial cable is used to connect one end to the test point at the back end of the matching circuit (front end of the RF test hole) of the mobile phone motherboard, and the other end is connected to the SMA connector. The diagram is as follows:



2、Antenna matching circuit



Point of modification/Modify

E01	E02	E03
No	No	No

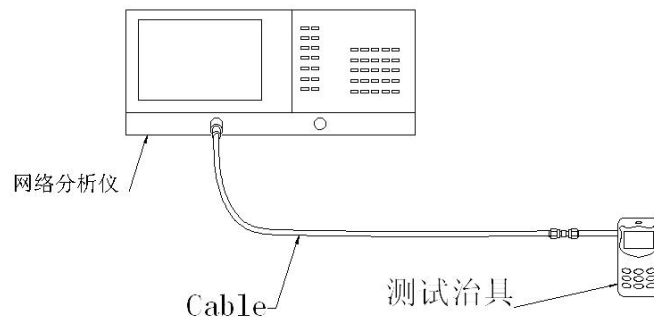
3. S11 Test

3.0 S11 Description of Test method

Test equipment: Network analyzer (E5071C)

Test method: A 50 ohm CABLE is exported from the instrument test port. After calibration, the SMA connector of the hand mechanism is connected with the calibration piece. The return loss and standing wave ratio corresponding to the relevant frequency points are recorded.

test diagram is as follows:



4、 Darkroom test equipment and data

est equipment

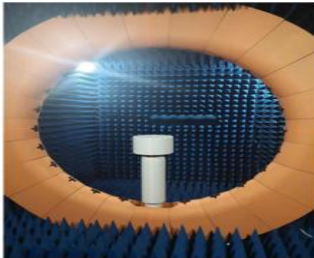
Test system: Shielded dark room

Test Environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$,
humidity $50\% \pm 15\%$

Test equipment: When testing passive data, use a network analyzer

AgilentE5071C

When testing active data, use the synthesizer CMW500



5. Antenna active test data

Frequency Band	WIFI 2.4G/B			WIFI 2.4G/G		
channel	L	M	H	L	M	H
TRP	11.4	12.9	11.2	10.5	10.6	10.8
TIS			-78.2			-66.3

Frequency Band	WIFI 2.4G/N					
channel	L	M	H			
TRP	10.5	10.5	10.3			
TIS			-62.5			

Test data:		
WIFI 2.4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	58.4	1.12
2410	59.5	1.05
2420	60.2	1.31
2430	51.5	0.98
2440	53.5	0.88
2450	51.5	0.74
2460	59.6	0.95
2470	58.7	1.04
2480	59.3	1.21
2490	60.2	1.30
2500	61.4	1.25

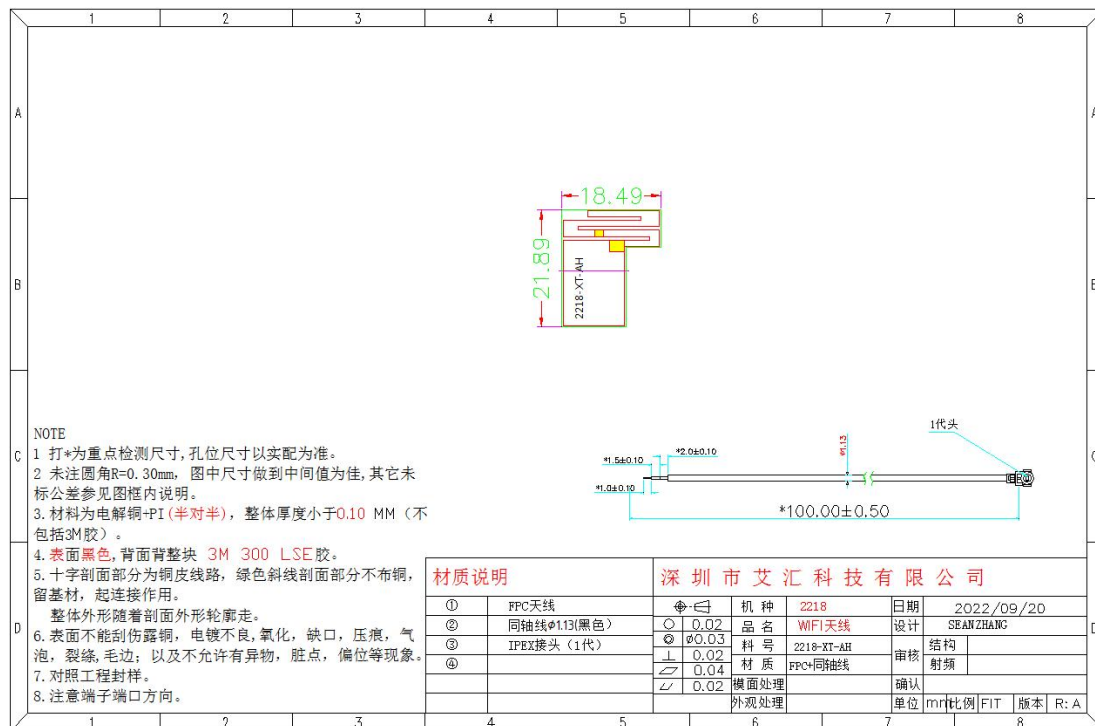
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6. Antenna environment treatment

7. Antenna mass production index

Frequency	Mass production standard
2400 MHZ -2500MHZ	VSWR<VSWR+0.5

8. Size



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