
S5 WIFI. Aerial Specification

Customer: Lingyun Pioneer			Project Name : S5	
Frequency band: 2.4G		Date : 20 24 .09. 22		Version: R: A
Research and development	Structure:	Check :		Ratify :
	Radio frequency:	Check :		
Customer review:			Customer's approval:	

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1. Project. Information And Electrical specification

Those specifications were specially defined for 2.4G/5G Model , And All characteristics were measured under the model ' Small size Handset testing jig .

1-1 Antenna picture.





1-2 Frequency Band. :

Frequency Band.	Megahertz
2.4 G	2400-2500 /

1-3 Impedance matching.

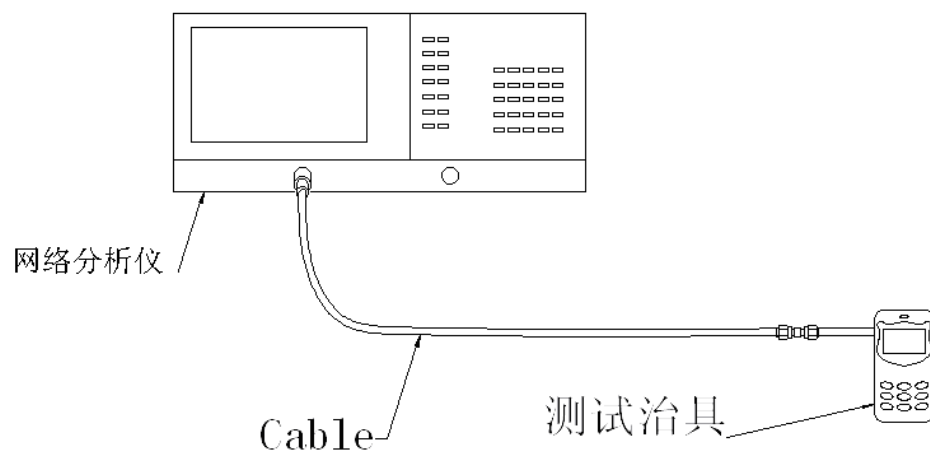
Antenna original matching

Two. VSWR.

2-1 Measuring Method. :

1. To 50 Ω Coaxial cable is connected to the Antenna . Then this cable .I Small size Connected to a network Analyzer to measure the VSWR ,
- Two. Keeping This jig away from metal at least 20cm.

The test diagram is as follows:



2-2 .S11. Parameter values

Frequency (MHZ)	2400	2500	Antenna gain: 1.6db
Stationary wave	1.43	1.35	

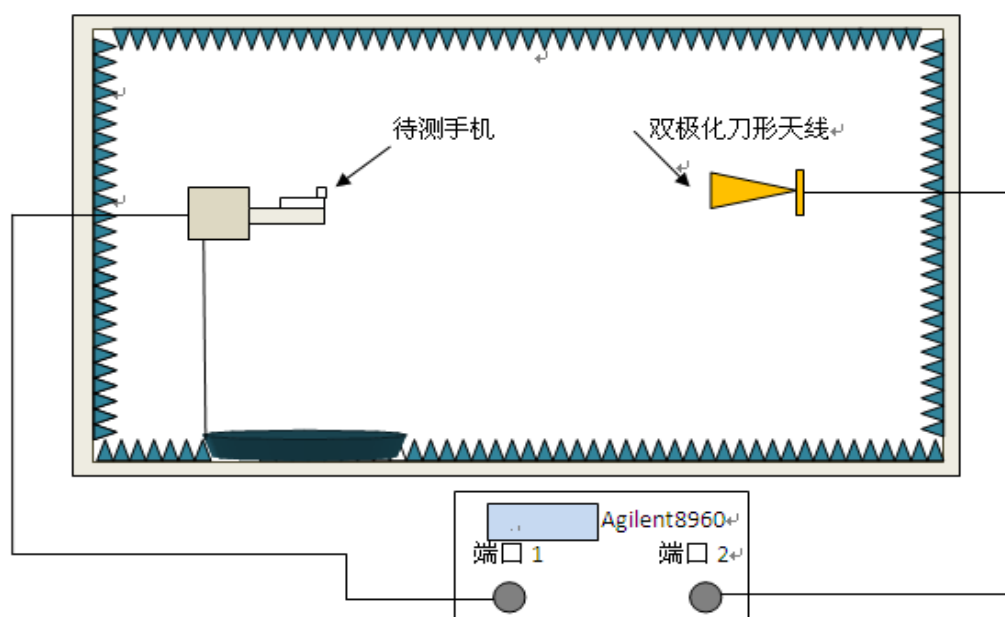
3. Efficiency and Gain

* Measuring and test instruments:

Microwave darkroom, Agilent Network analyzer , Agilent spectrum analyzer, 8960 comprehensive tester, Standard antenna

*Test method:

Equipment By means of H. The surface is fixed in the central position of the turntable. , It is on the same horizontal line as the center of the speaker antenna.



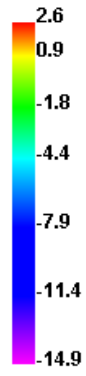
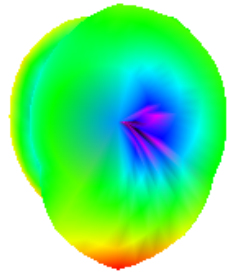
3 to 1 Efficiency/Gain- WIFI

WiFi. 2.4 G

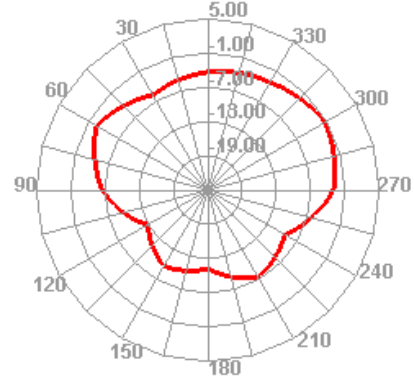
Passive Test For WIFI2.4g					
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)
2350	51.18	-2.91	0.74	-1.41	28.651
2380	52.87	-2.61	1.59	-0.56	32.079
2420	52.95	-2.54	2.25	0.1	33.491
2450	53.79	-2.53	1.2	-0.95	31.871
2480	52.69	-2.46	1.41	-0.74	31.783

	信道	TRP	TIS
11g 54m	1	13.19	-56.43
	6	13.67	-58.29
	11	13.62	-58.15

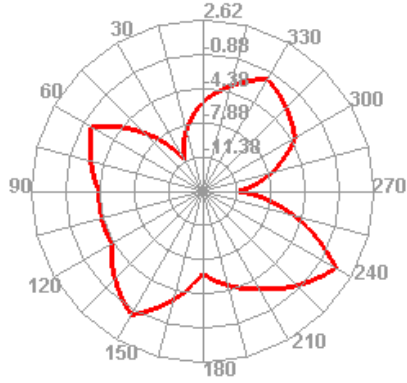
2400.000MHz



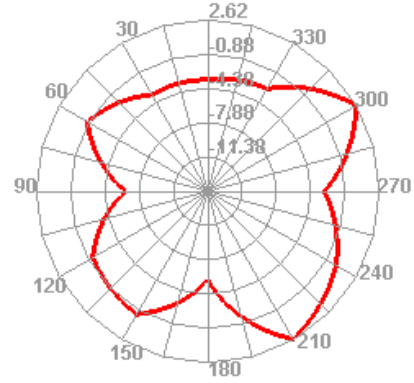
2400.000MHz H



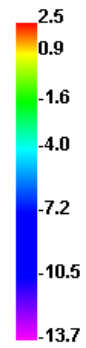
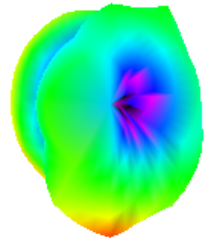
2400.000MHz E1



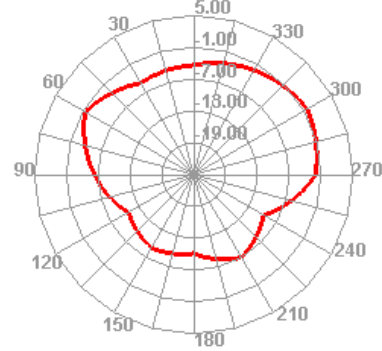
2400.000MHz E2



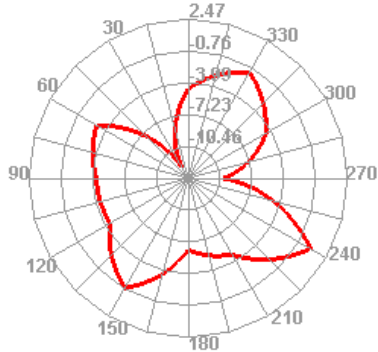
2450.000MHz



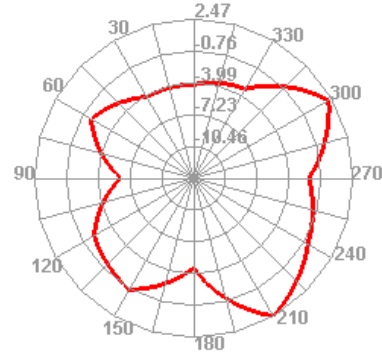
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



Four. Antenna

