

WIFI Antenna Specifica

Antenna Model:300010000W
Antenna Gain: 2.0dBi
Antenna Type: PCB Antenna

WIFI ANT



1. Project information and Electrical Specification

Those specifications were specially defined for WIFI model and all characteristics were measured under the model's handset testing jig .

1-1Project picture

1-2 Frequency Band:

Frequency Band	MHz
WiFi	2400-2500

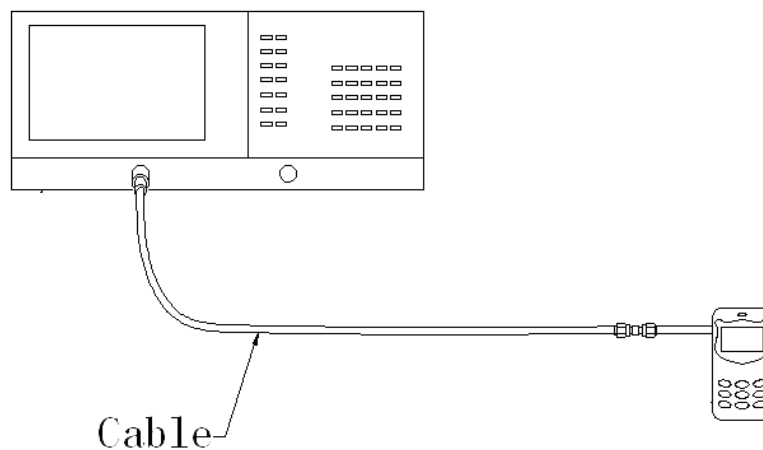
1-3 Impedance matching

Antenna is the original match

2.VSWR

2-1 Measuring Method:

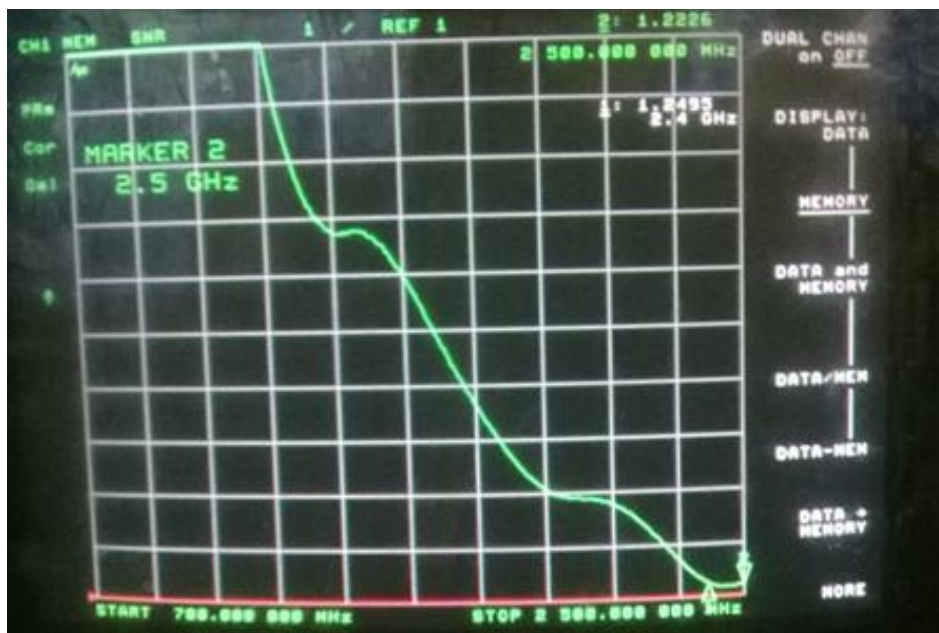
- 1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*



2-2 S11 parameter values

Frequency(MHz)	2400	2500
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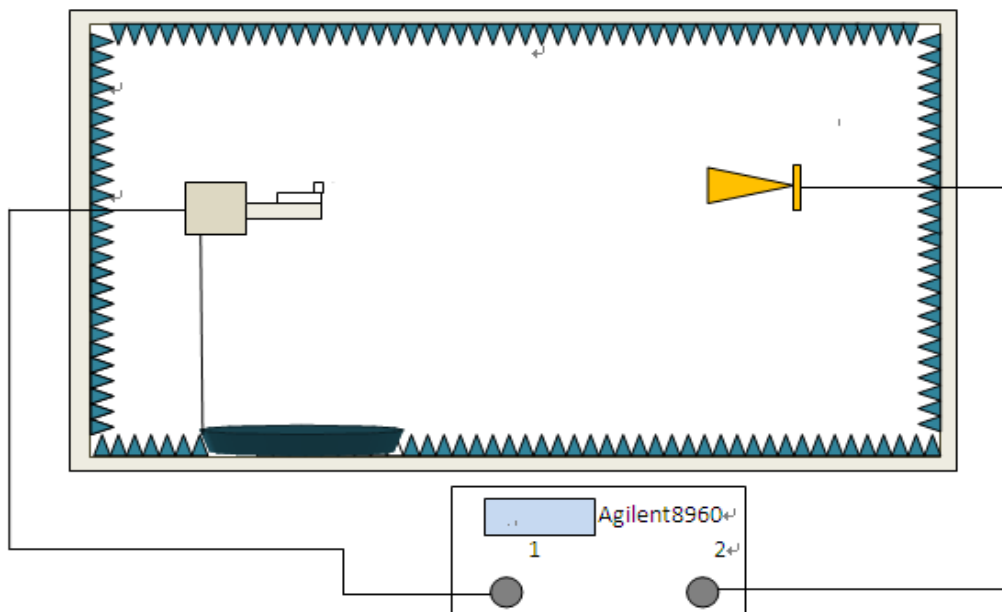
standing wave	1.24	1.22
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3. Efficiency and Gain

*measuring and test instruments:

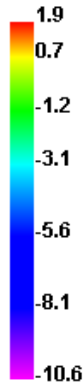
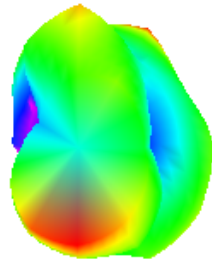
*test method:



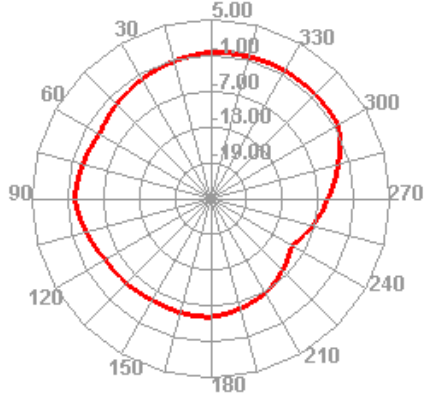
3-1 Efficiency/Gain- WIFI

Passive Test For WIFI_								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	54.64	-2.62	1.94	-0.48	1.94	-10.58	51.03	51.21
2450	56.51	-2.48	2.00	-0.59	2.3	-9.65	51.78	51.74
2500	56.92	-2.45	1.69	-0.83	1.69	-10.48	51.76	51.66

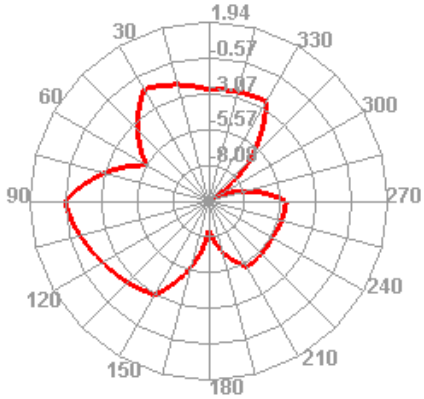
2400.000MHz



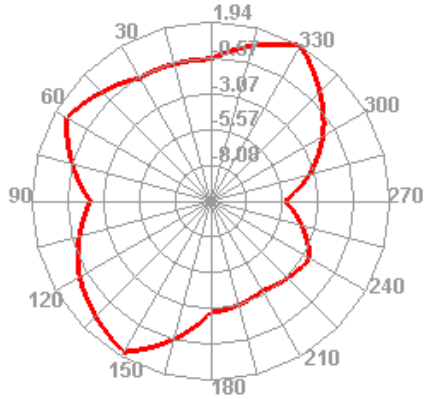
2400.000MHz H



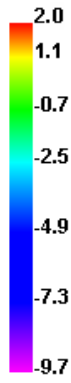
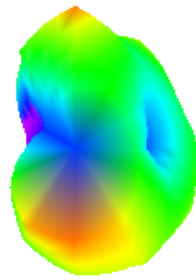
2400.000MHz E1



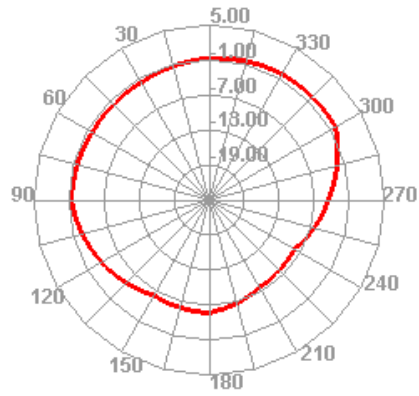
2400.000MHz E2



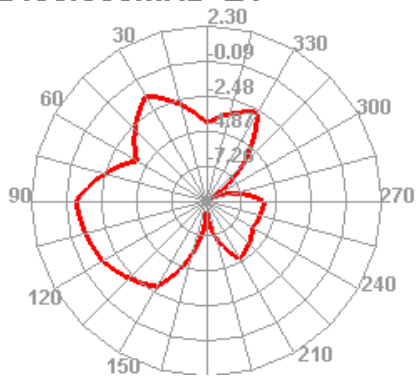
2450.000MHz



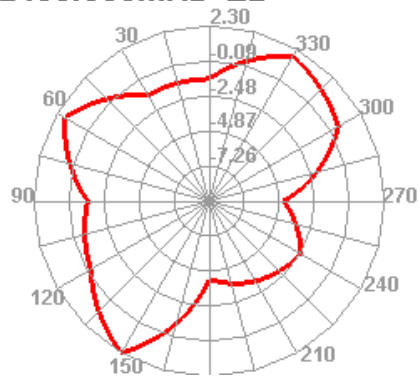
2450.000MHz H



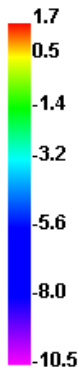
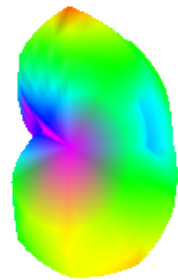
2450.000MHz E1



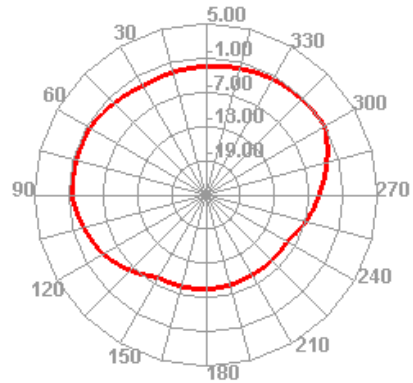
2450.000MHz E2



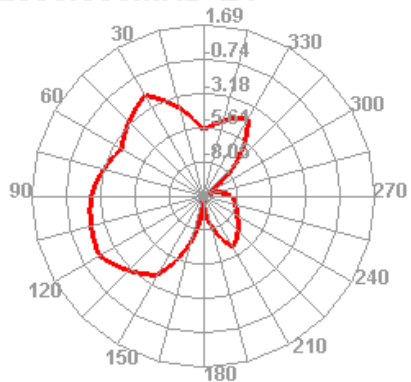
2500.000MHz



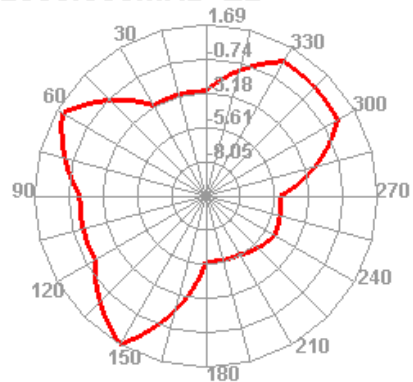
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



4. Antenna structure drawing

