



深圳信诺山通信技术有限公司

Shenzhen Signalsen Telecom Technology Co , .Ltd

WIFI 天线规格书

物料编号：W693-1B50B-A

客户：瑞扩		项目名：R10	
频段：2.4G		日期：2022.08.26	版本：R:A
研发	结构：	审核：	批准：
	射频：	审核：	
客户审核：		客户批准：	

1. Project information and Electrical Specification

Those specifications were specially defined for 2.4G model, and all characteristics were measured under the model's handset testing jig .

1-1 Project picture

1-2 Frequency Band:

Frequency Band	MHz
WiFi/BT	2400-2500

1-3 Impedance matching

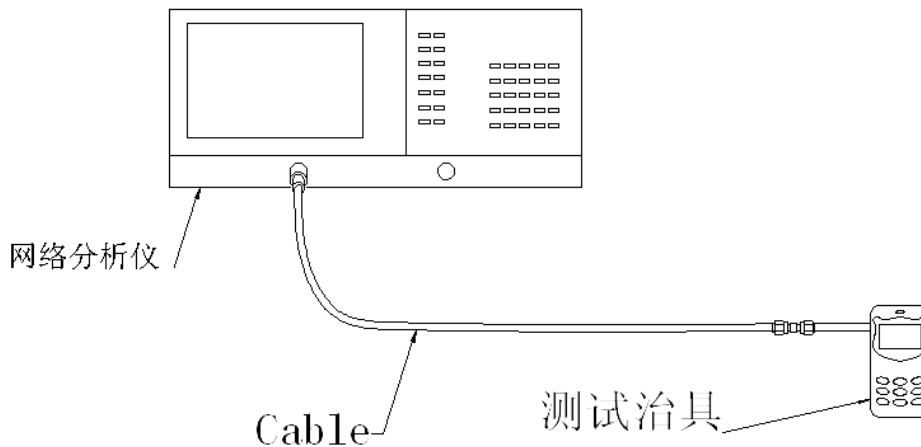
天线原匹配

2.VSWR

2-1 Measuring Method:

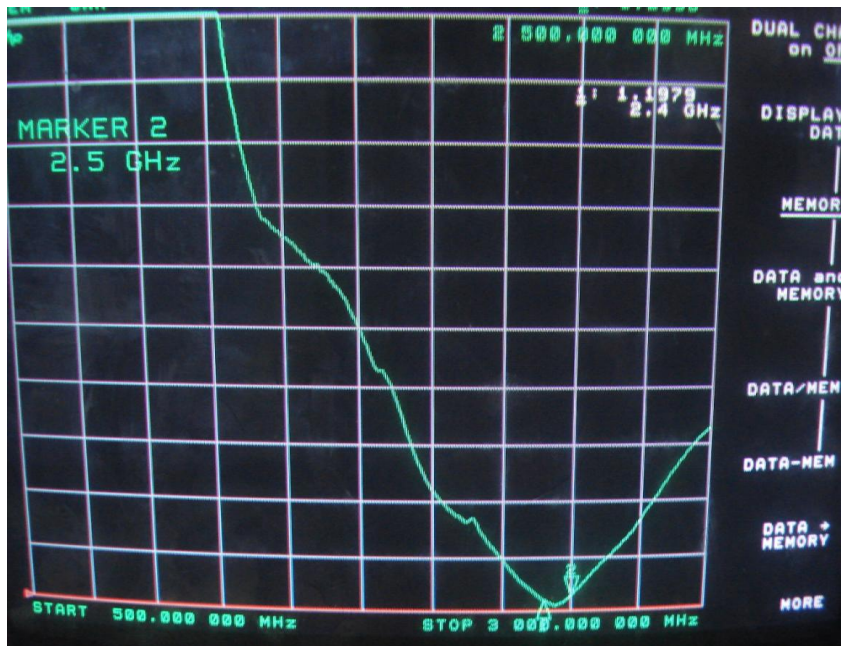
- 1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*

测试示意图如下:



2-2 S11 parameter values

频率 (MHZ)	2400	2500
驻波	1.19	1.42



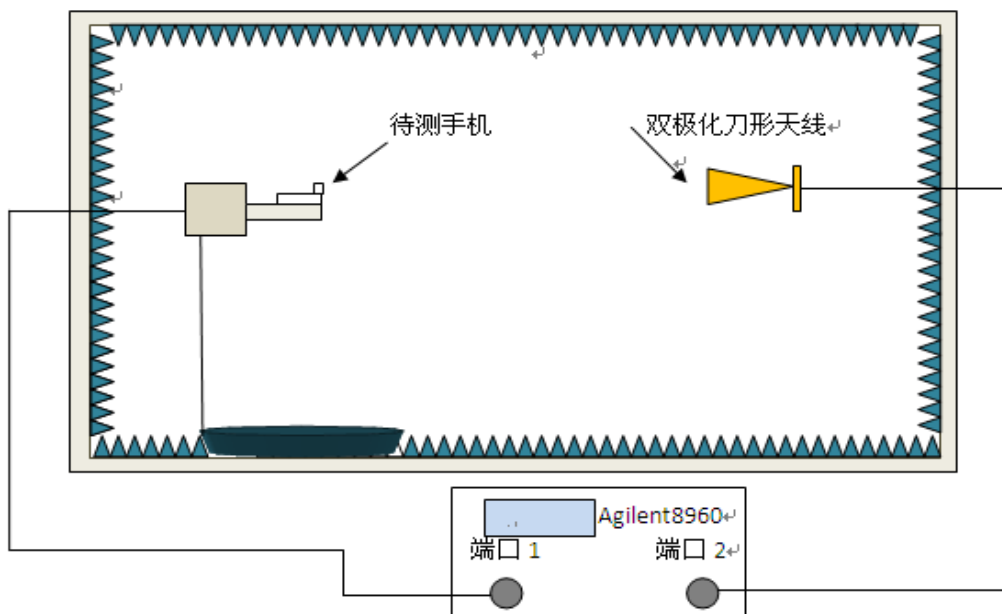
3. Efficiency and Gain

***measuring and test instruments:**

微波暗室, Agilent 网络分析仪, Agilent 频谱分析仪, 8960 综合测试仪, 标准天线

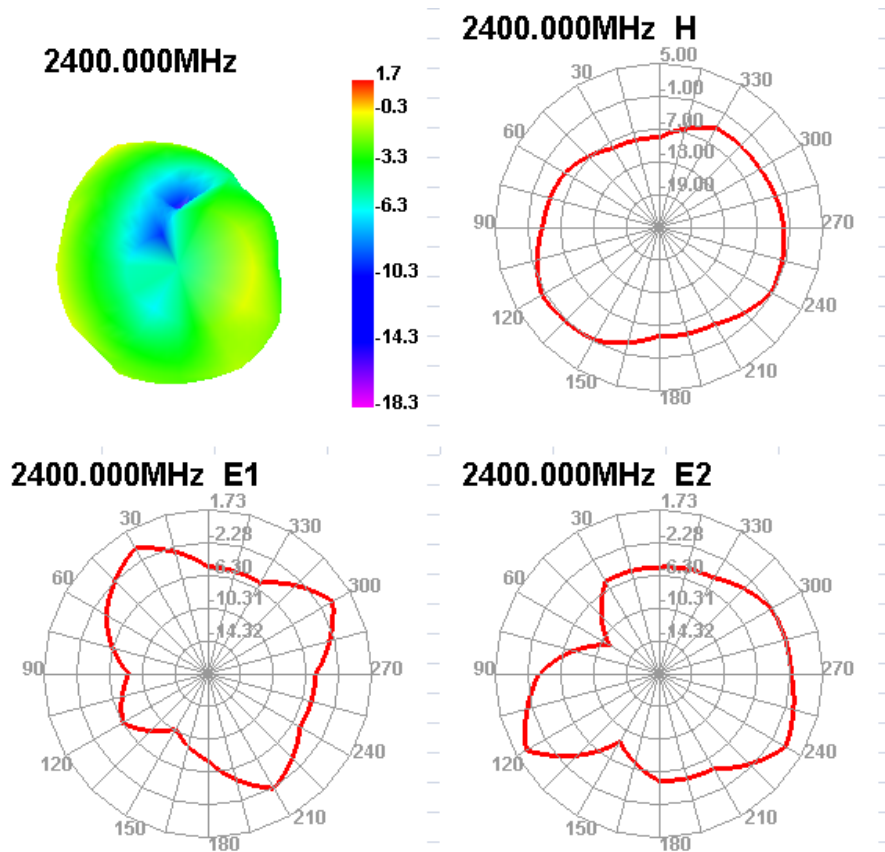
***test method:**

equipment 以 H 面放于转台中心位置固定, 与喇叭天线中心位置在同一个水平线上。

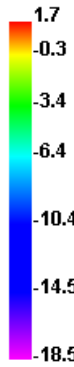
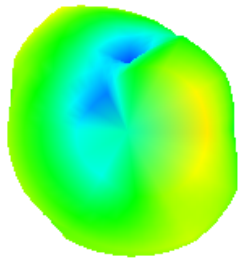


3-1 Efficiency/Peak Gain- WIFI/BT

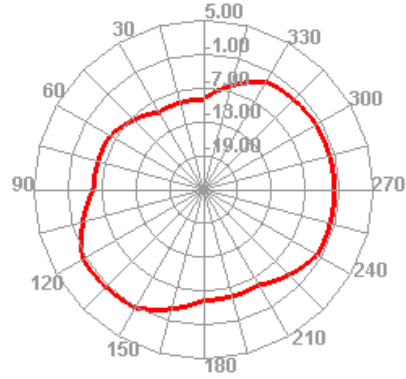
Passive Test For WIFI_BT								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	50.67	-2.95	1.73	-0.42	1.73	-18.33	51.53	51.61
2450	50.75	-2.95	1.69	-0.46	1.69	-18.53	51.67	51.63
2500	51.75	-2.86	1.9	-0.25	1.9	-12.83	51.56	51.46



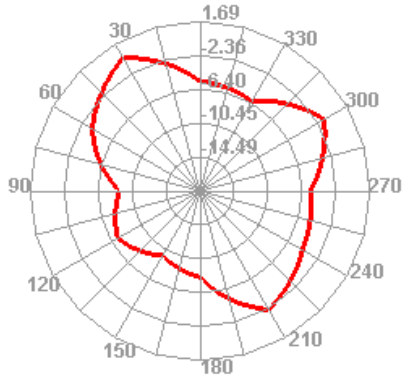
2450.000MHz



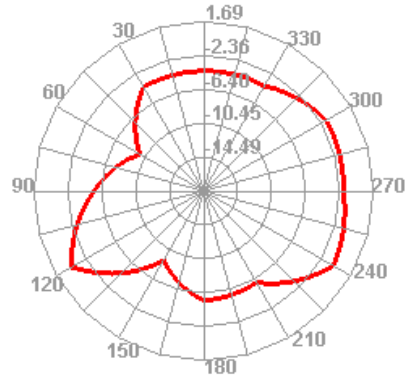
2450.000MHz H



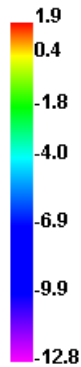
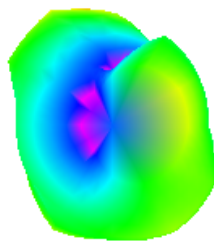
2450.000MHz E1



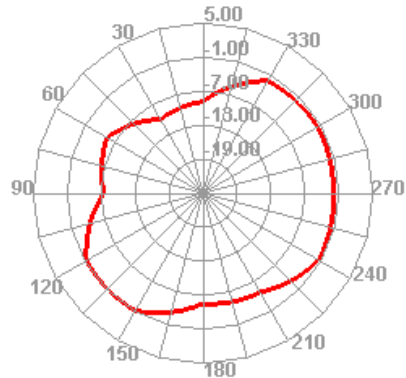
2450.000MHz E2



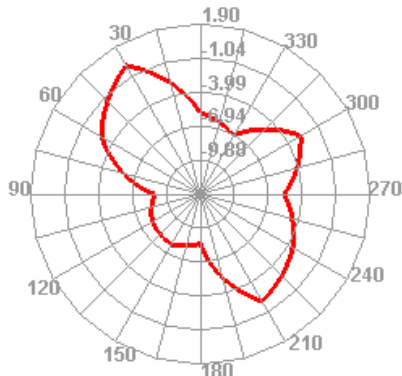
2500.000MHz



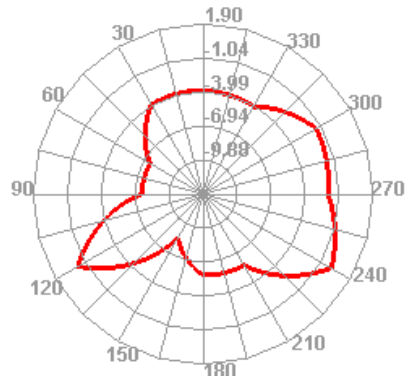
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



天线量产时，以驻波比作为量产测试标准。

根据项目本身的差异,给出如下标准:

频率	量产标准
WIFI/BT (2400-2500MHZ)	$VSWR(\text{量产产品}) < VSWR(\text{设计样品}) + 0.5$

5. Structural drawings

