



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

WiFi Antenna specification

我司料号 Our material No: W701-1B135B-B

Antenna type:PIFA

|                            |                                    |                         |
|----------------------------|------------------------------------|-------------------------|
| 客户:<br>Customer:           |                                    | 项目名<br>Project:         |
| 频段: WiFi/BT<br>FB: WiFi/BT | 日期: 2024/10/12<br>Data: 10/12/2024 | 版本: R:A<br>Version: R:A |
|                            |                                    |                         |

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## 1. Project information and Electrical Specification

*Those specifications were specially defined for WIFI /BT 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

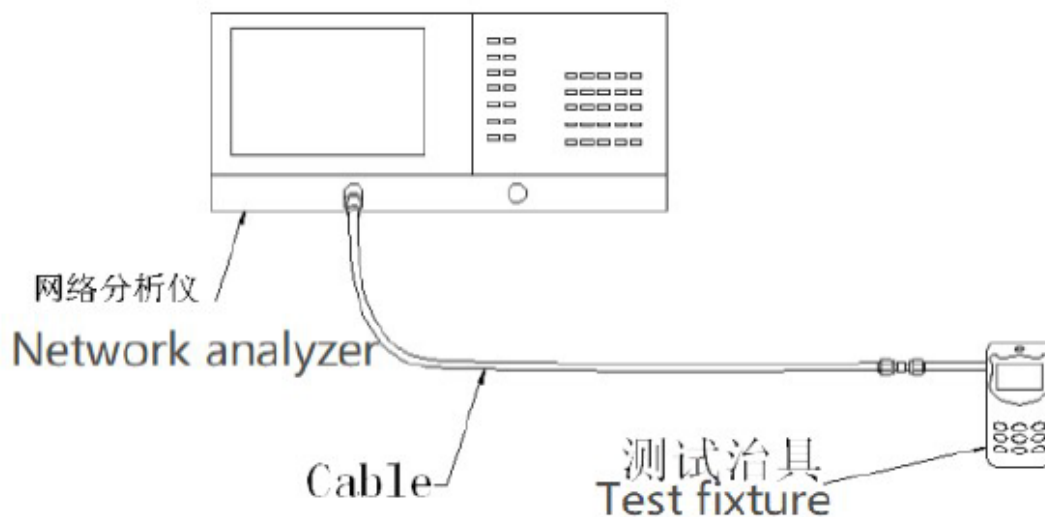
DUT 的 RF 线路上的所有匹配器件都保持不变 All matching devices on the RF circuit of DUT remain unchanged

## 2.VSWR

### 2-1 Measuring Method:

- 1. A 50 $\Omega$  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 The test diagram is as follows:



## 2-2 S11 parameter values

|          |      |      |
|----------|------|------|
| 频率 (MHZ) | 2400 | 2500 |
| 驻波       | 1.04 | 1.32 |



## 3. Efficiency and Gain

### \*measuring and test instruments:

微波暗室 Microwave anechoic chamber

Agilent 网络分析仪 Microwave anechoic chamber

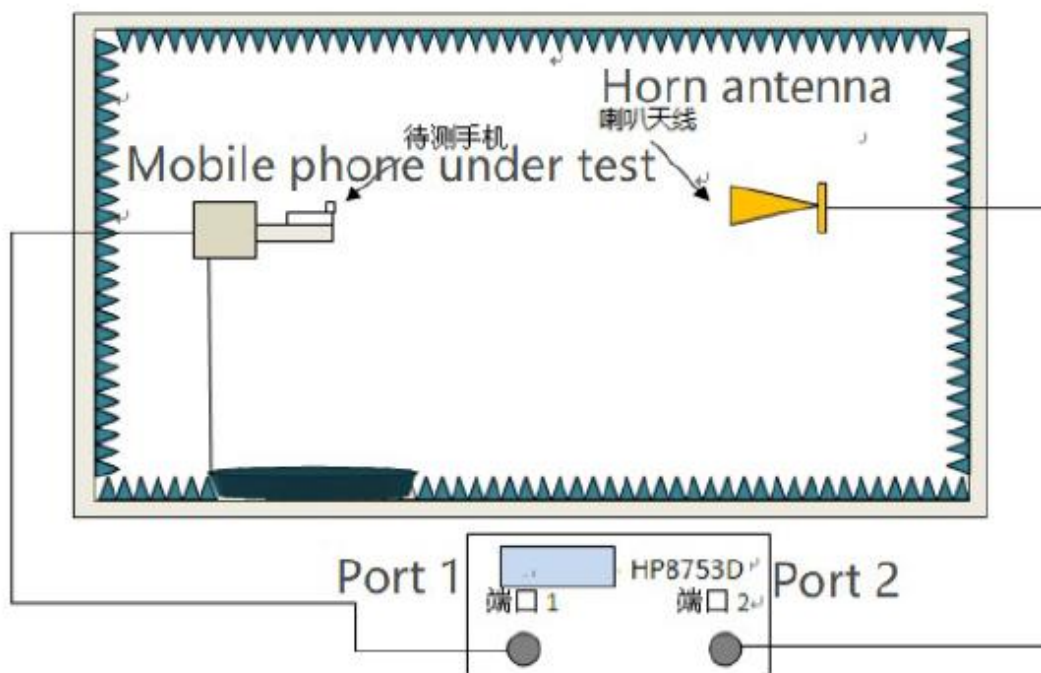
Agilent 频谱分析仪 Spectrum analyzer

8960 综合测试仪 Network analyzer

标准天线 Standard antenna

**\*test method:**

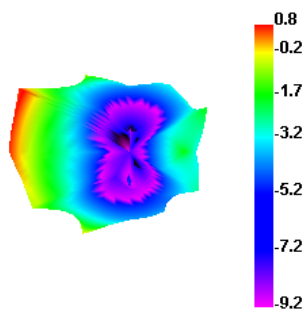
equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。



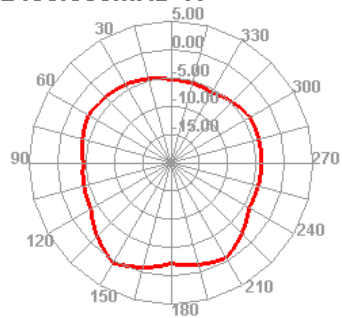
3-1 Efficiency/Gain- WIFI/BT

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 44.21       | -3.54        | 0.79          |
| 2450          | 44.09       | -3.56        | 1.32          |
| 2500          | 47.63       | -3.22        | 1.9           |

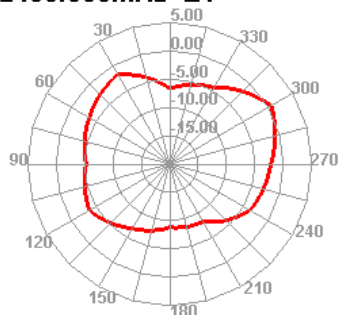
2400.000MHz



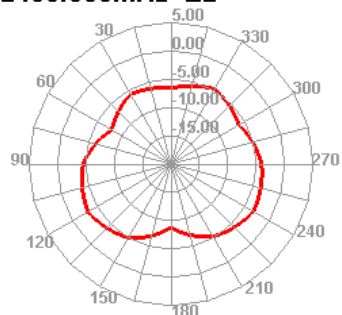
2400.000MHz H



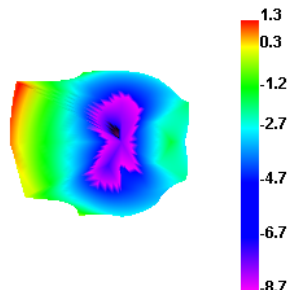
2400.000MHz E1



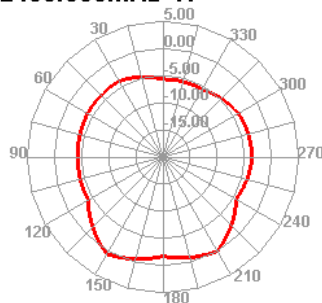
2400.000MHz E2



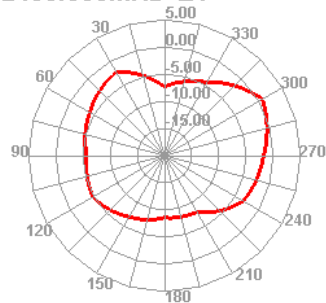
2450.000MHz



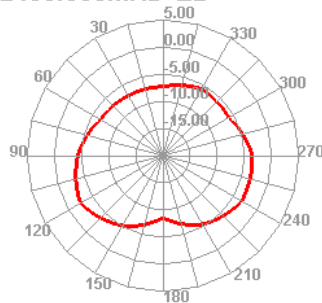
2450.000MHz H

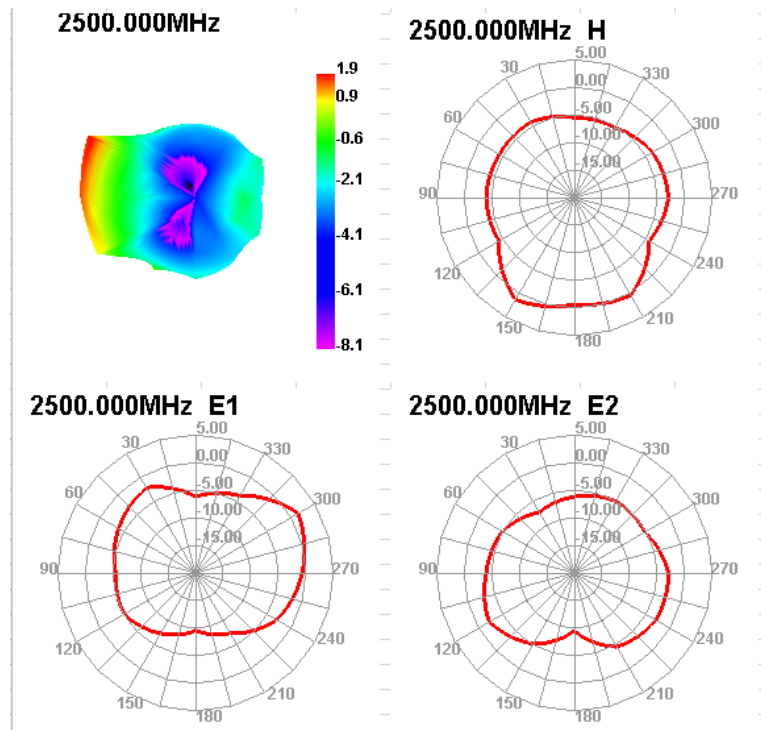


2450.000MHz E1



2450.000MHz E2





#### 4. structural drawings

