深圳信诺山通信技术有限公司
Shenzhen Signalsen Telecom Technology Co, .Ltd

BT 天线规格书

BT Antenna specification

我司料号 Our material No：W183-1B2000B-A

客户： Customer：			项目名: Project：
频段： BT FB： BT		日期：2023/11/16 Data：11/16/2023	版本：R:A Version：R:A
研发	结构：	审核：	批准：
	射频：	审核：	
天线型号:2.4G BT 天线,黑色,一代端子同轴线 L=200mm Antenna model :2.4G BT antenna, black, first generation terminal coaxial line L=200mm			

Address:

Room 211, Hengbo science and technology Industrial Park, Qingning road, Longhua District, Shenzhen

contents

1. Project information and Electrical Specification

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

1-1Project picture

1-2 Frequency Band:

Frequency Band	MHz
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

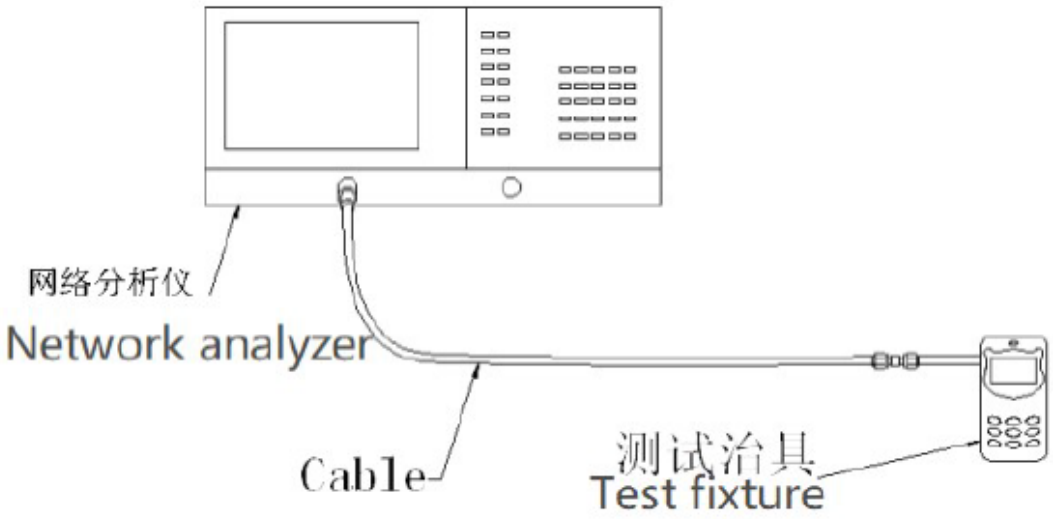
2.VSWR

2-1 Measuring Method:

1. A 50 Ωcoaxial 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

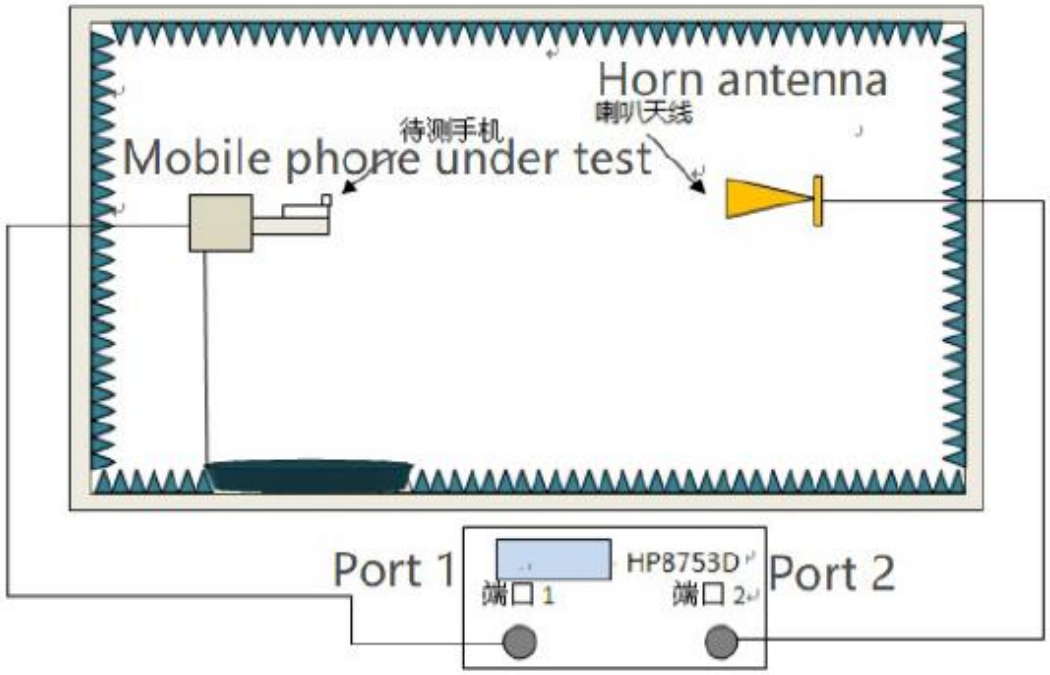
Agilent 频谱分析仪 Spectrum analyzer

8960 综合测试仪 Network analyzer

标准天线 Standard antenna

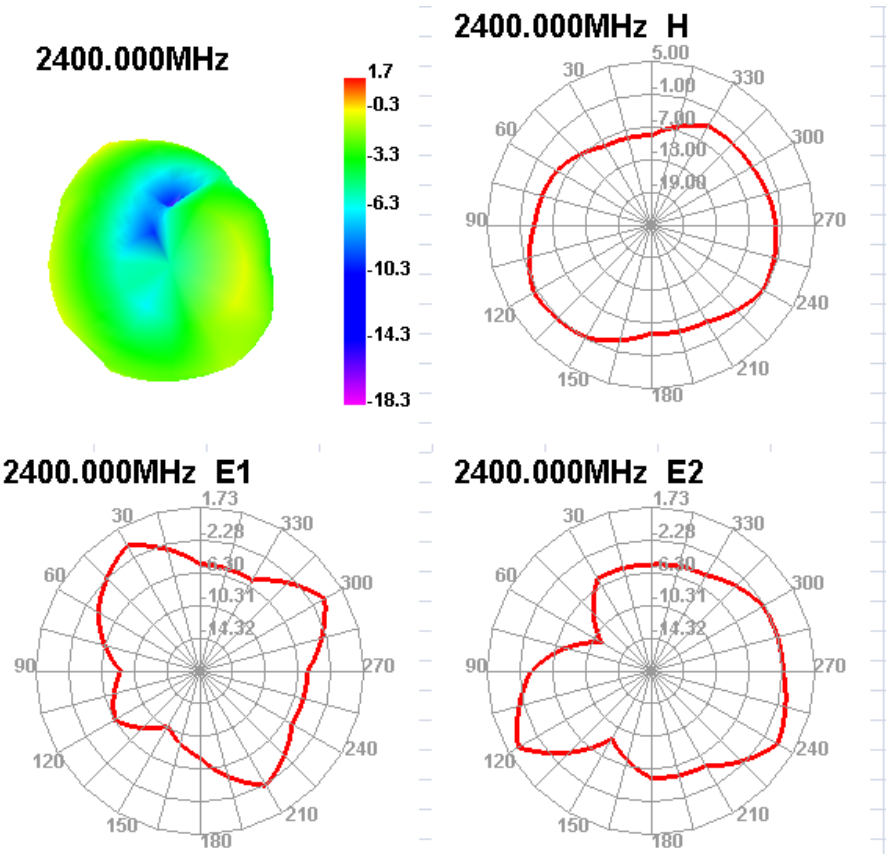
***test method:**

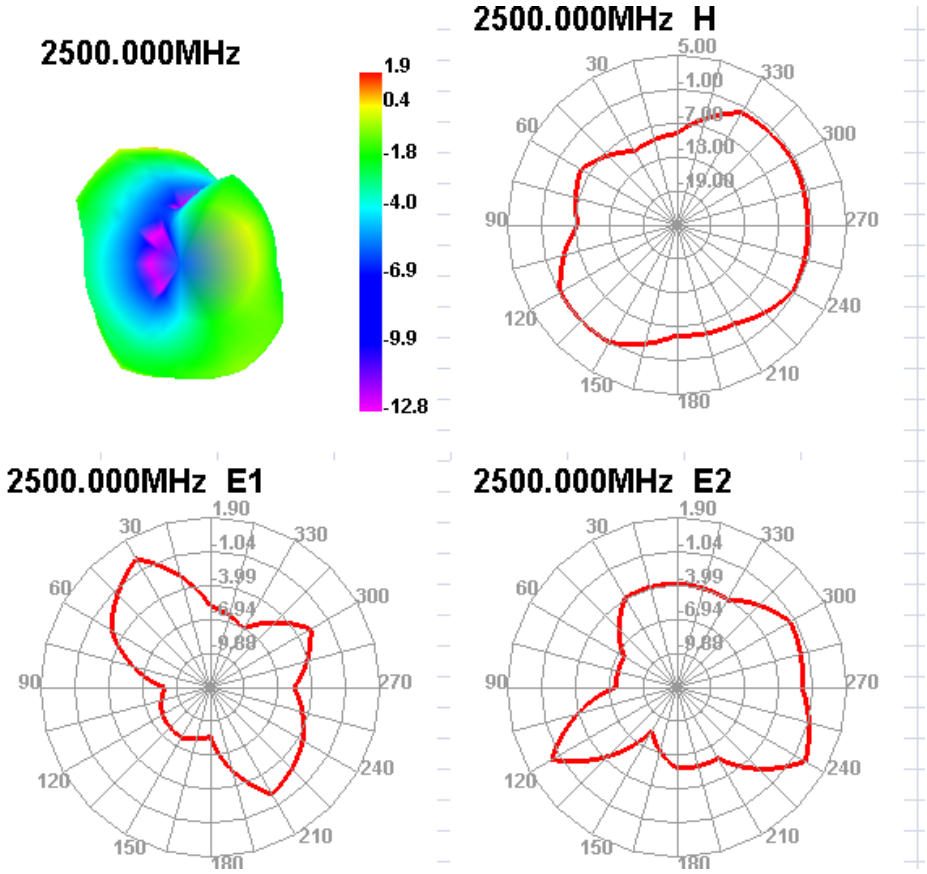
equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。



3-1 Efficiency/Gain- 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


2400.000MHz
1.7
-0.3
-3.3
-6.3
-10.3
-14.3
-18.3
2400.000MHz H
5.00
1.00
-7.00
-13.00
-19.00
2400.000MHz E1
1.73
-2.28
-6.30
-10.31
-14.32
2400.000MHz E2
1.73
-2.28
-6.30
-10.31
-14.32
2450.000MHz
1.7
-0.3
-3.4
-6.4
-10.4
-14.5
-18.5
2450.000MHz H
5.00
1.00
-7.00
-13.00
-19.00
2450.000MHz E1
1.69
-2.36
-6.40
-10.45
-14.49
2450.000MHz E2
1.69
-2.36
-6.40
-10.45
-14.49
30
60
90
120
150
180
210
240
270
300
330



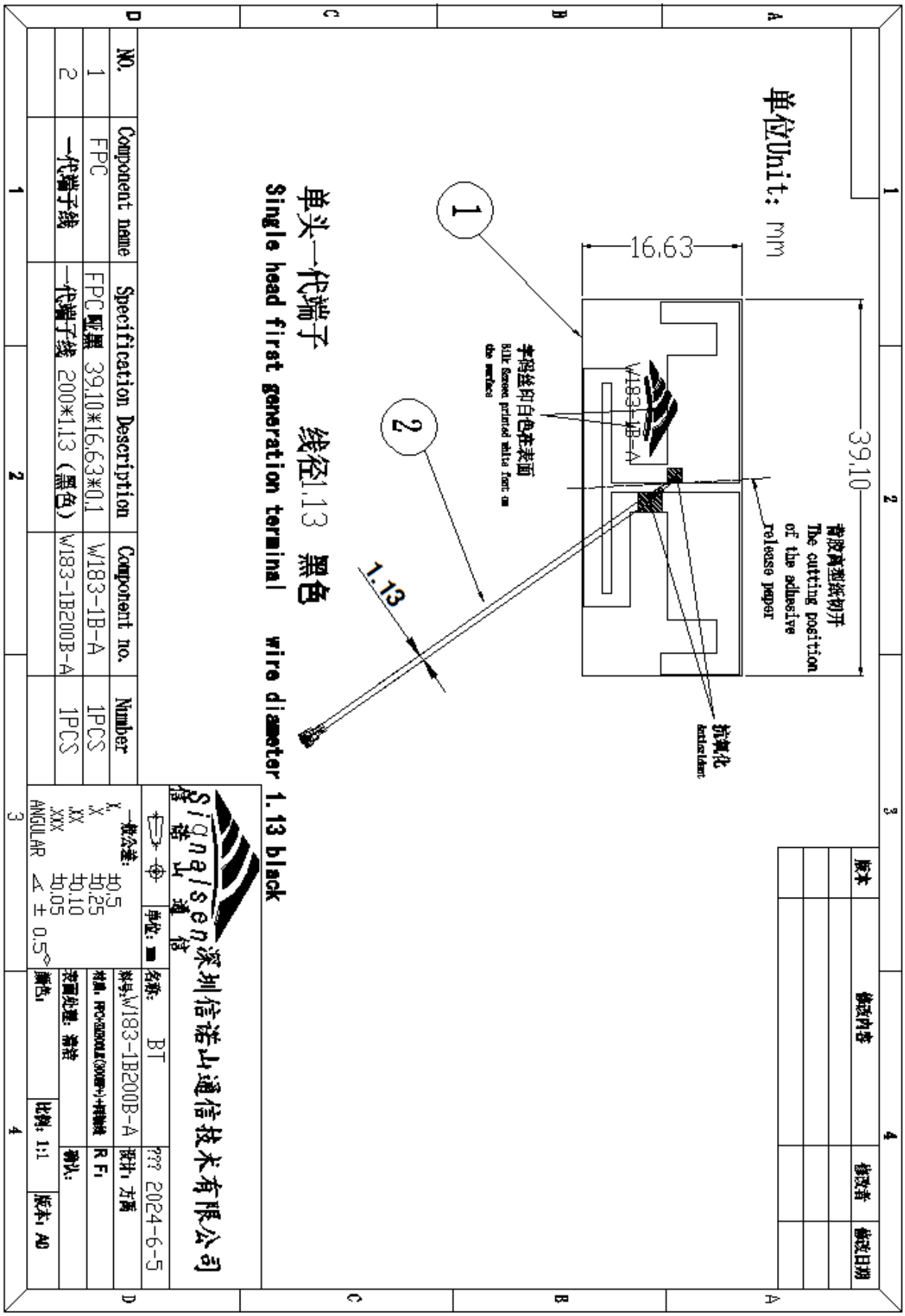
4. The production index

天线量产时，以驻波比作为量产测试标准 In the mass production of antenna, the standing-wave ratio is used as the test standard.

根据项目本身的差异,给出如下标准 According to the differences of the project itself, the following standards are given：

频率 Frequency（MHZ）	量产标准 Mass production standard
BT(2400-2500)	VSWR（量产产品 Mass production products）<）<VSWR(设计样品 Design sample)+)+0.5

5. structural drawings



备注：增益测试设备及环境如图：

Note: The gain test equipment and environment are shown as follows: