

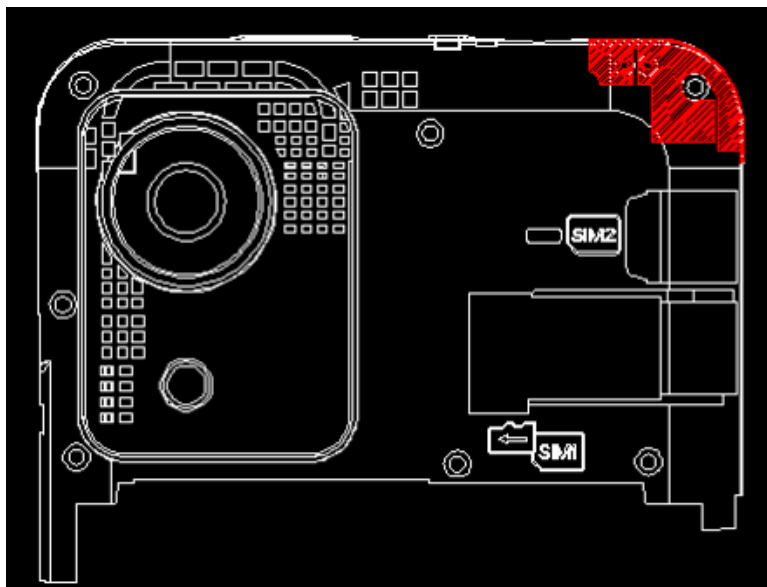
Shenzhen Anwei Wireless Technology Co., Ltd

Specification of ROVER CHIPPY antenna

Customer	Shenzhen Teleone Technology Co.,Ltd	Specs	ROVER CHIPPY
Part Number	AW006-SP136G-021-A0 AW006-SP136G-022-A0	Frequency Band	2400-2500MHz
Color	Black	Edition	REV:A0
Salesperson		Design	
Structure		Confirm	
Date	2024/03/07	Signing Date	
Customer confirmation:			
Join hands to create the future			

一、Product specification

The report mainly provides the parameter test of R10 antenna performance.



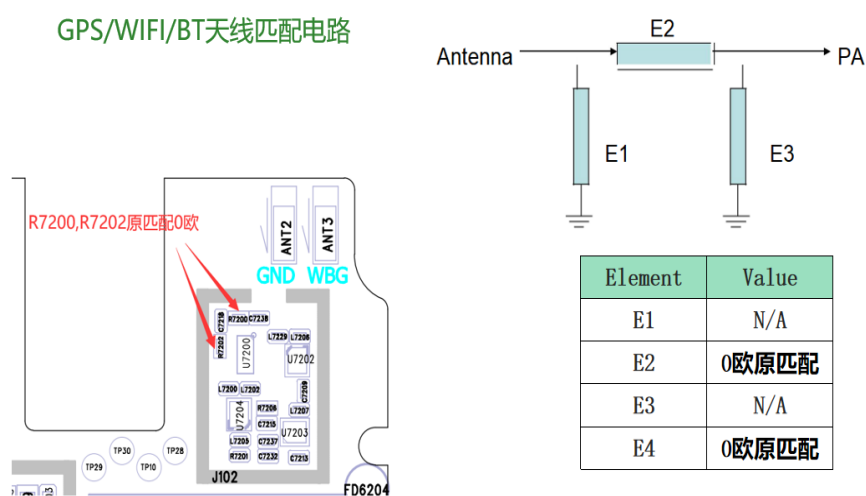
1 天线

二、Electrical performance

1. specification standards

The working frequency band of CHIPPY antenna is 2400-2500MHZ the resonance occurs in this frequency band.

2. The matching circuit of the antenna

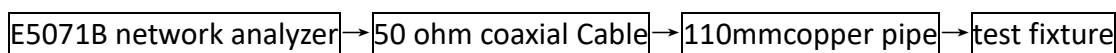


The structure of the antenna: LDS

三、Parameter testing

1. Test setup

The VSWR test device is connected in turn:



Treatment of test fixtures

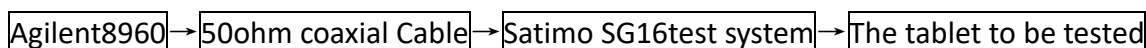
A hard cable is used to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, which is connected with the copper tube with a choke, and then connected to other devices in turn

2. Test result

all going well

四、Setup for active testing

The active test device is connected in turn



1. Test site

AW Microwave anechoic chamber: The test frequency range is 400MHz—6GHz, The range of static zone is 40cm circle, The reflectivity is less than -90 dB

2. Test result

The maximum radiated power and the maximum receiving sensitivity reflect the maximum radiated power and the best receiving performance of the antenna in the whole radiated space. TRP and TIS reflect the average radiated power and average receiving sensitivity of the antenna, that is, the overall receiving performance of the antenna.

Following is the test result of the BT/WIFI three in one antenna of ROVER CHIPPY:

WIFI天线实际测试效果:

1. 2. 4G WIFI测试距离中间隔一道玻璃门约为15米，信号强度-42DB.
2. BT 用AirPods Pro 耳机在室内9.5米听音乐测试清晰。

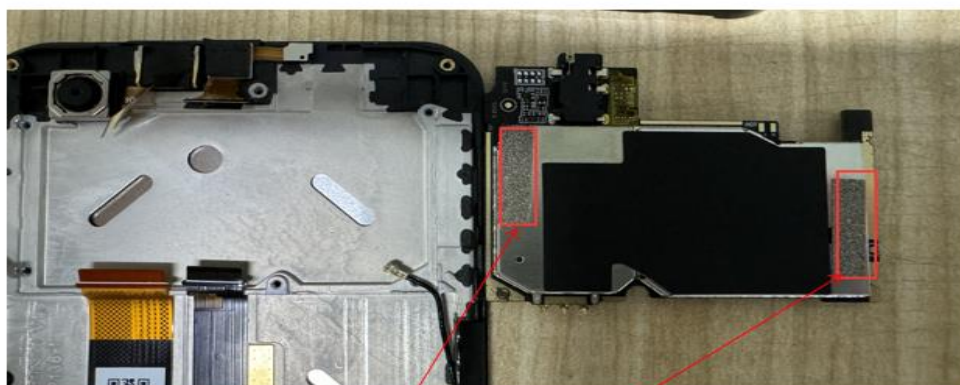
测试结论:性能OK。



3. Environmental enrichment:

如图所示：屏FPC排线贴上导电布屏蔽接地处理，未拆屏（原处理）。

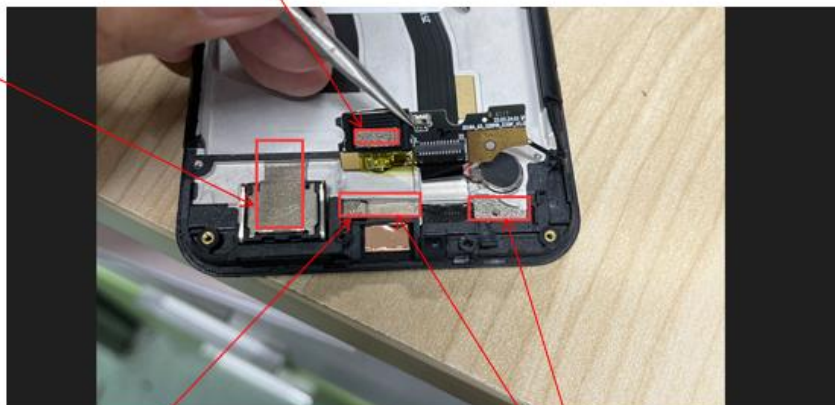




如图所示：此2处贴上导电海绵与主板良好接地处理（整机原处理状态）。

如图所示：USB处贴上导电海绵良好接地处理。

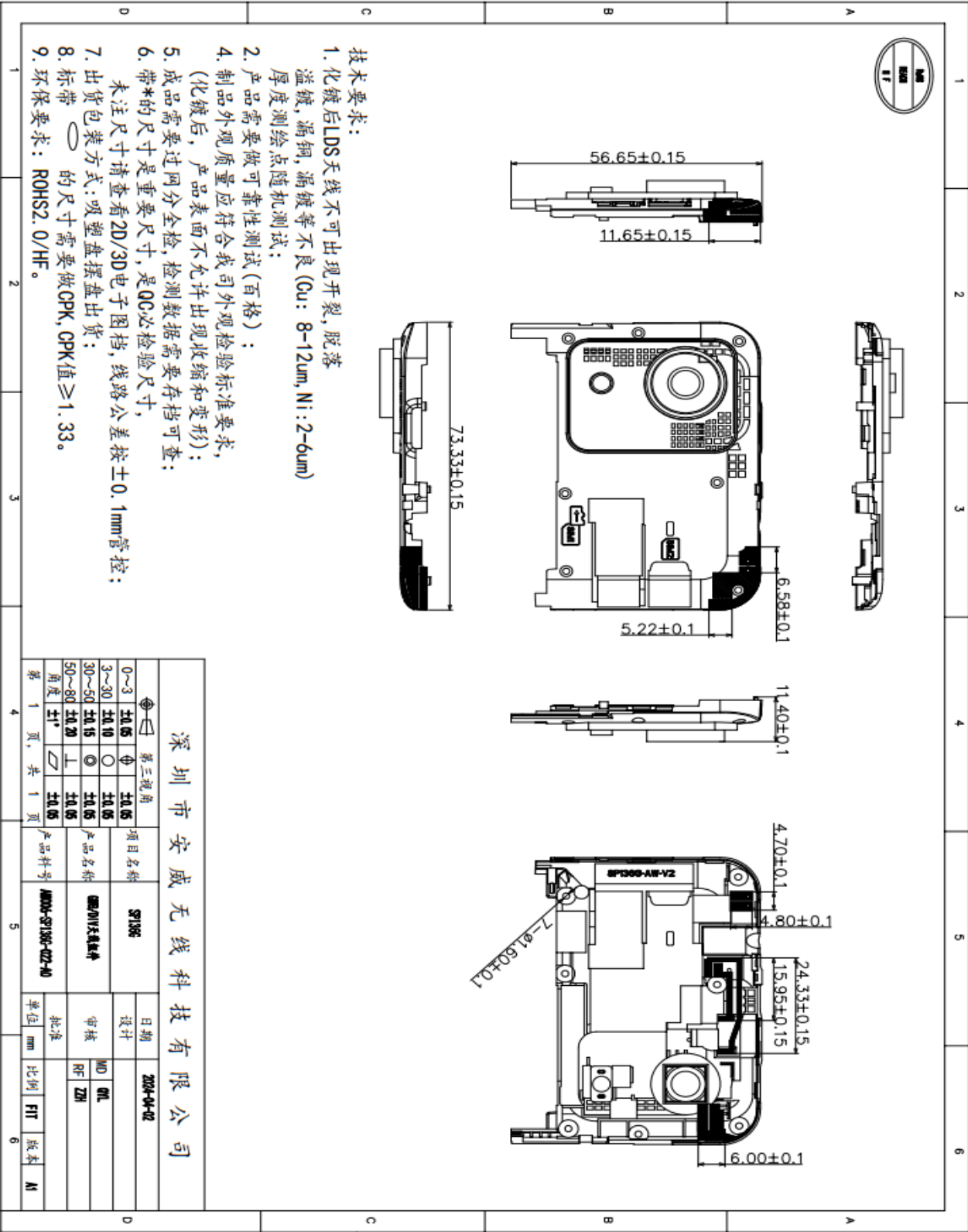
如图所示：喇叭贴上导电布接地处理。



如图所示：此处贴上导海绵与小板良好接地处理。

如图所示：此2处贴上导电海绵与小板良好接地处理。

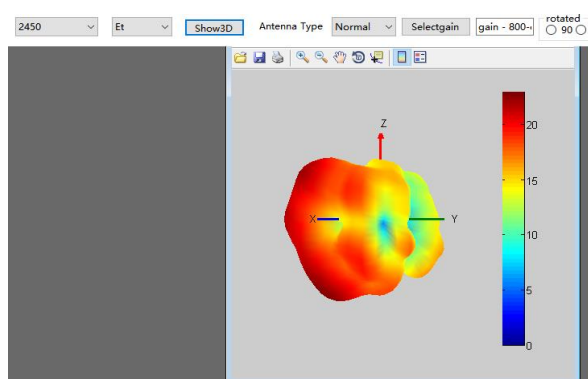
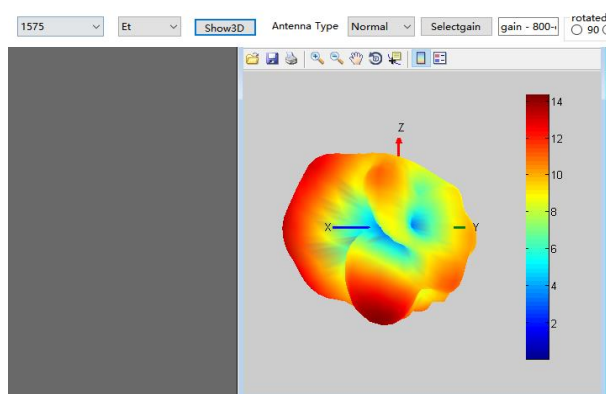
五、Structural drawings



Project name: SP136G
Antenna manufacturer: AN WEI Communication Equipment Co., Ltd

2.4G WIFI	2.81
BT	2.81
Unit	dbi

(2.4G WIFI/BT antenna) apple Map



(2.4G WIFI/BT antenna) PolarGraphs/EtotalGraphs

