SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

WIFI antenna

Product design and manufacturing specifications

- Customer:
- Projec: V701
- Name: 2.4G WIFI Antenna
- Antenna materials: FPC+Cable+EVA
- Part no:
- Designer:
- Check:
- Approved:

Rm505, 8th building, Yungu 2nd period, pingshan No.1 Road, Xili Town,Nanshan District, ShenZhen , China
Tel: 86-755-83763273/13927478525
Fax: 86-755-83763348
Email: dbt1668@163.com

List:

1.Antenna 2D diagram

2.Technical target

3. S11 SWR/ Impedance test results

4.Dynamic test instruction

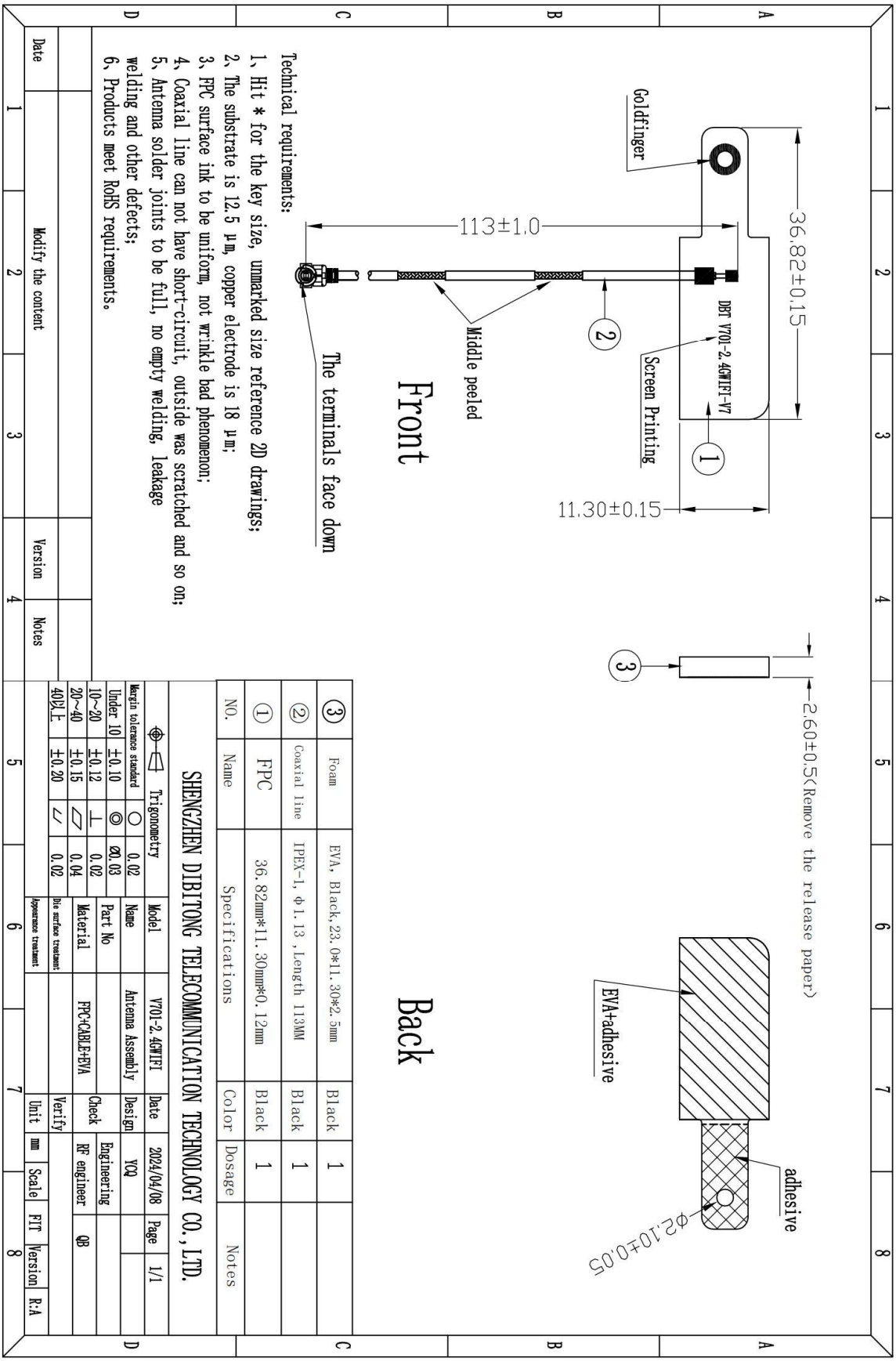
5.Matching Circuit

6.Antenna test report

7.Environmental treatment

8.Packing method

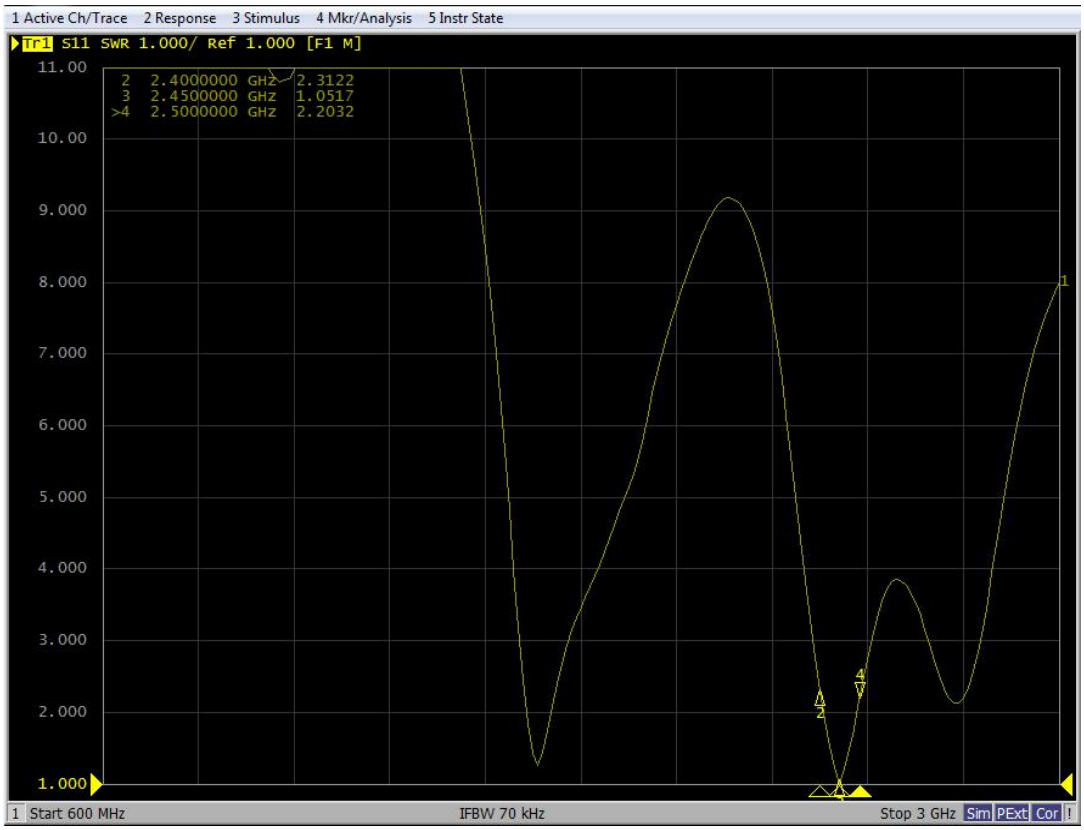
1. Antenna 2D diagram



2.Technical target

A. Electrical Parameter	
Frequency Range	**2400~2500 MHz**
VSWR	**2400~2500 MHz：≤2.5**
Gain（Max）	**2400~2500 MHz: 2.47 dBi**
Average radiation efficiency	**2400~2500 MHz : 44%**
Input Impedance	**50 ohm**
B. Material	
FPC+Cable+EVA	
C. Environmental Science	
Working Temperature	**- 30˚C ~ + 85 ˚C**
Storage temperature	**- 30˚C ~ + 85 ˚C**

3.S11 SWR/ Impedance test results

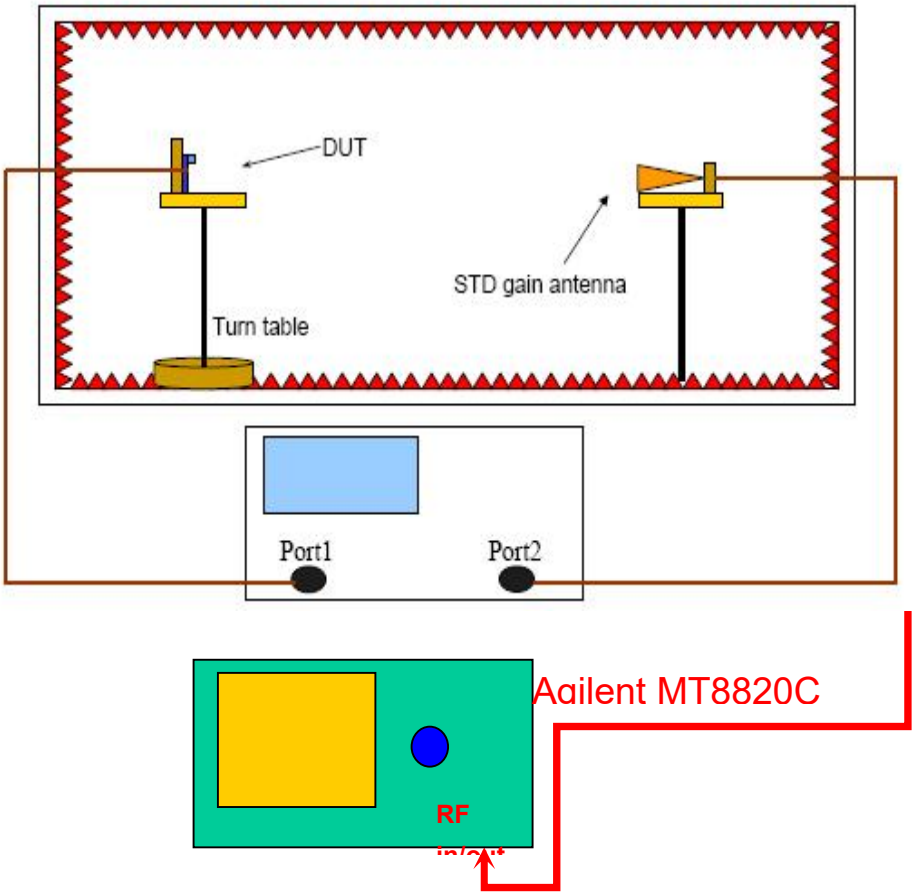


VSWR: 2400-2500MHz ≤ 2.5

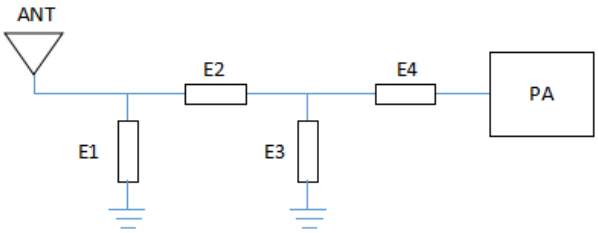
Input Impedance: 50 Ohm

4.Dynamic test instructions - Antennas are placed in electronic scales

Testing instrument：**Anrits CMW500+ Anechoic Chamber 6X4X3m(3D-OTA)**



5.Matching Circuit



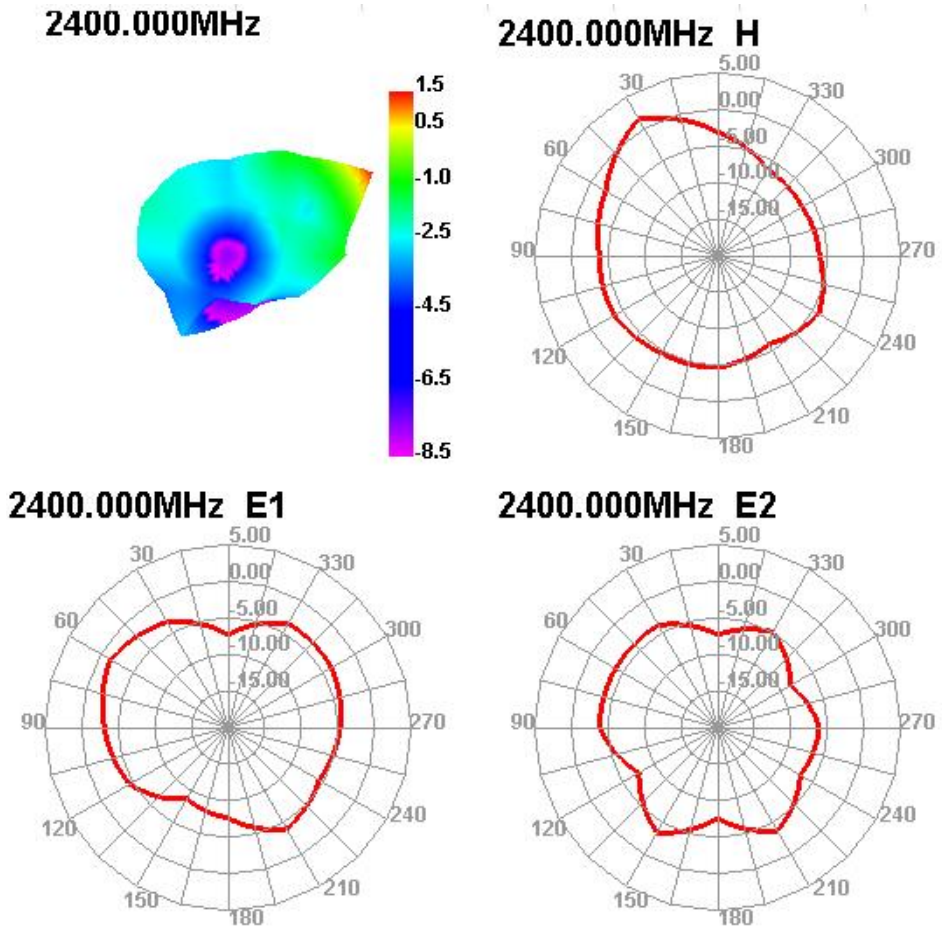
Element	2. 4G	5.8G		
E1	N/C	N/C		
E2	0Ω	0Ω		
E3	N/C	N/C		
E4		0Ω		

（The match has not changed）

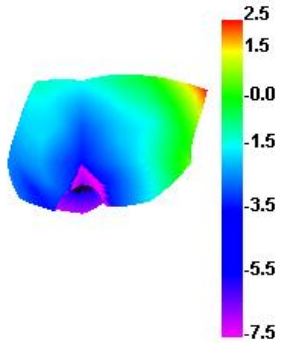
6.Antenna test report

Passive Efficiency/Gain/Pattern

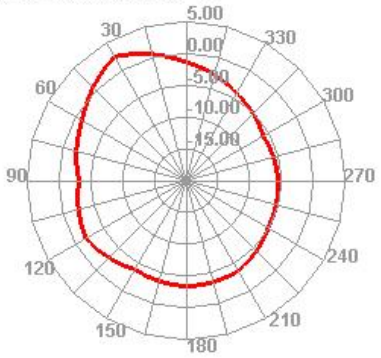
Freq (MHz)	Effi (%)	Gain (dBi)
2400	41.66	1.52
2410	39.02	1.27
2420	43.6	1.96
2430	45.08	2.07
2440	48.22	2.38
2450	49.29	2.47
2460	44.11	1.82
2470	46.25	1.97
2480	44.82	1.95
2490	41.43	1.58
2500	40.61	1.73



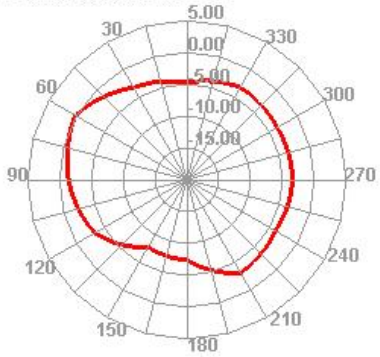
2450.000MHz



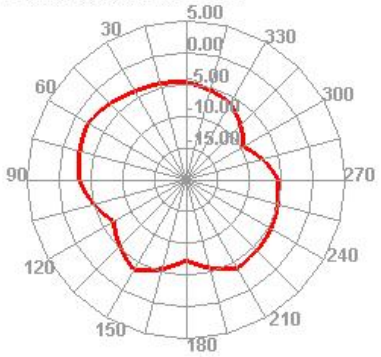
2450.000MHz H



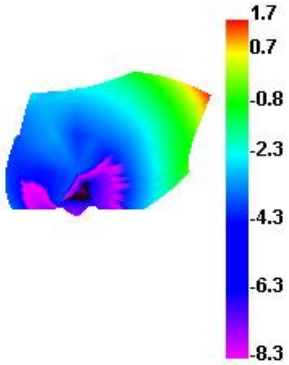
2450.000MHz E1



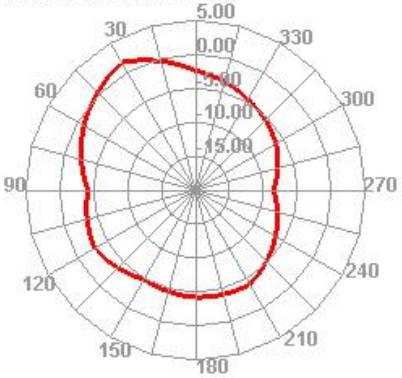
2450.000MHz E2



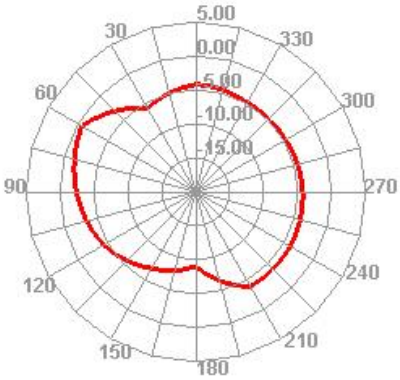
2500.000MHz



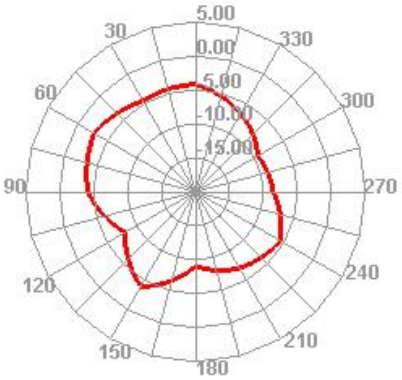
2500.000MHz H



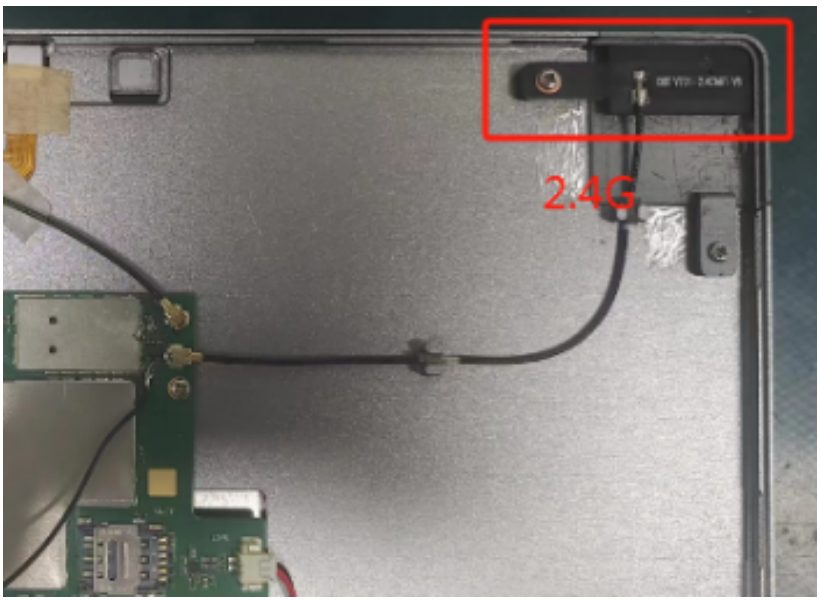
2500.000MHz E1



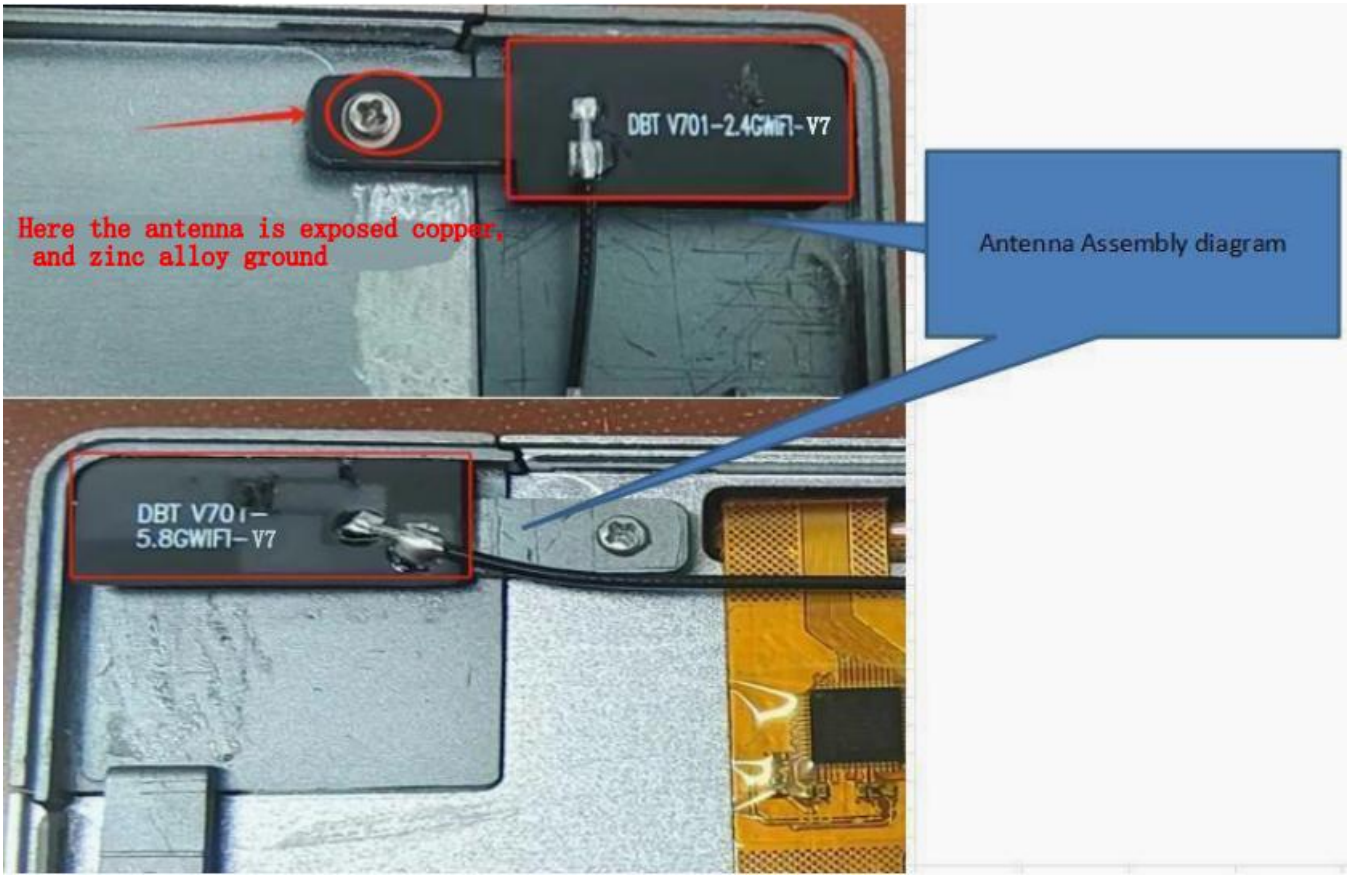
2500.000MHz E2



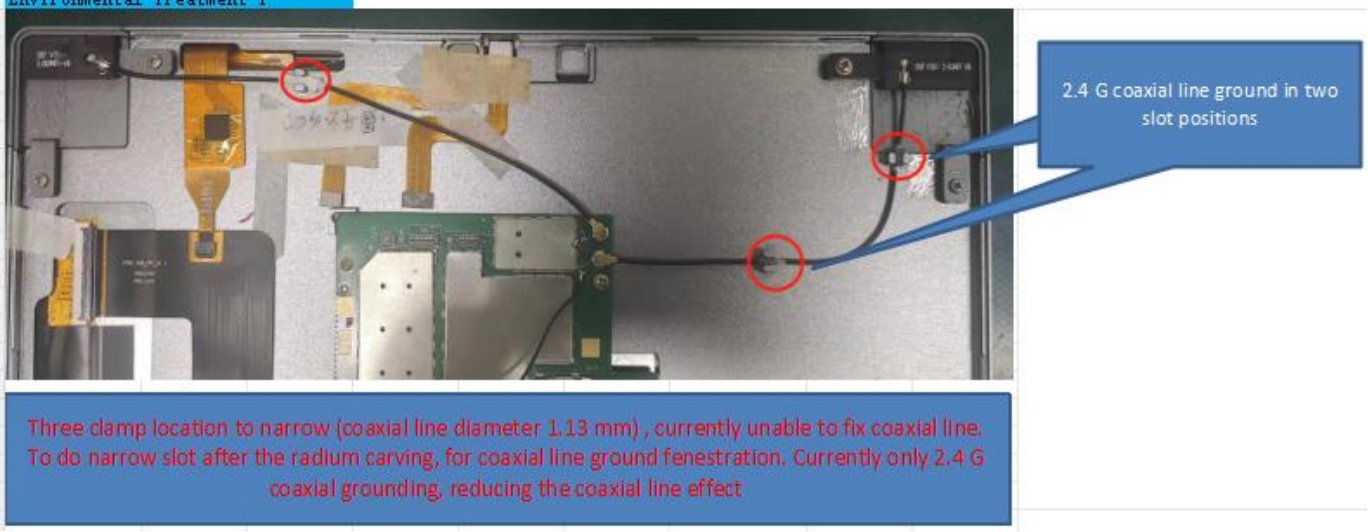
7.Environmental treatment



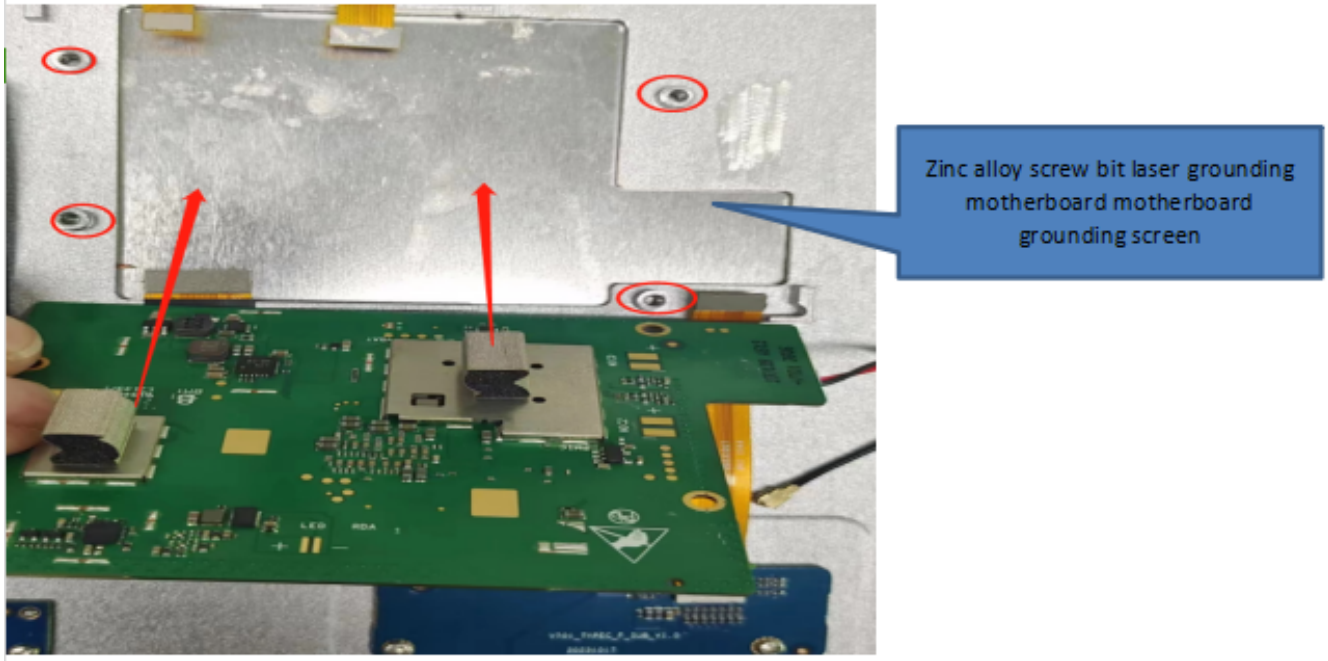
(Antenna position)



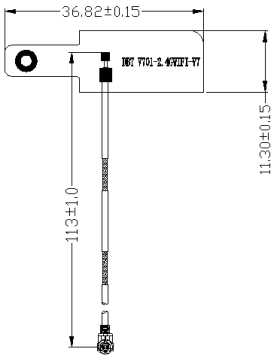
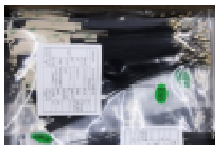
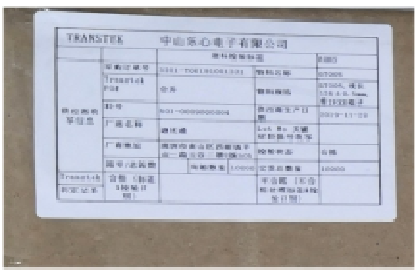
Environmental Treatment 1



Environmental Treatment 2



8.Packing method

<table>
<tr><td colspan="2">1.2D drawing of the product</td><td rowspan="3">The product material number</td><td rowspan="3"></td></tr>
<tr><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Product name</td><td>V701_2.4GWIFI</td></tr>
<tr><td colspan="2"></td><td>Product version</td><td>V7</td></tr>
<tr><td>2.Photos of all stacked layers in the box</td><td>3. Photo of the whole case after sealing</td><td></td><td></td></tr>
<tr><td> </td><td> </td><td>Number of full pages</td><td>200PCS</td></tr>
<tr><td colspan="2"></td><td colspan="2">Remarks: the quantity of each box shall be actual, the picture on the left side shall be for reference, and the actual goods shall be regarded as standard.</td></tr>
<tr><td>4. A whole pack of photos</td><td>5.A photograph of the label on the surface of the entire case</td><td colspan="2" rowspan="2">Storage conditions:between -10 ° to 30 ° , humidity 70% Rh below the indoor.</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td colspan="4">Note: the picture in the picture above is only used for packing standard demonstration, not for final data audit.</td></tr>
</table>

Confirmer	Yang Xiaoping		Date	2024-4-8		