



天线承认书

Parts Approval Sheet

Customer	小成	Project	T007
Band	WIFI	Color	BLACK
PN	X2548	Version	V0
Customer material number			

DATE: 2024/01/24

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
伍海沅	蔡章林	项念	文孝群
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

☐ 无

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1.Summary

This report summarizes the electrical results of the our antenna to support the project T007. The test fixture is made for further testing, which is show below:



2.General Description

2.1Antenna Components/Part revisions

The antenna part number is T: A

2.2Definitions

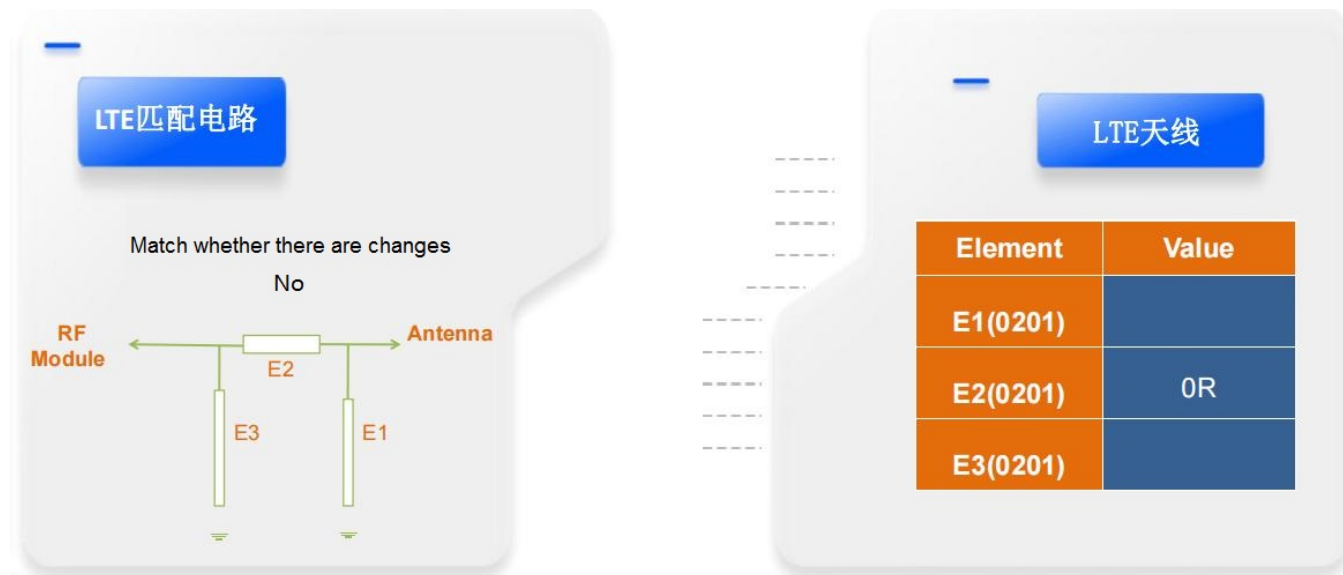
VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

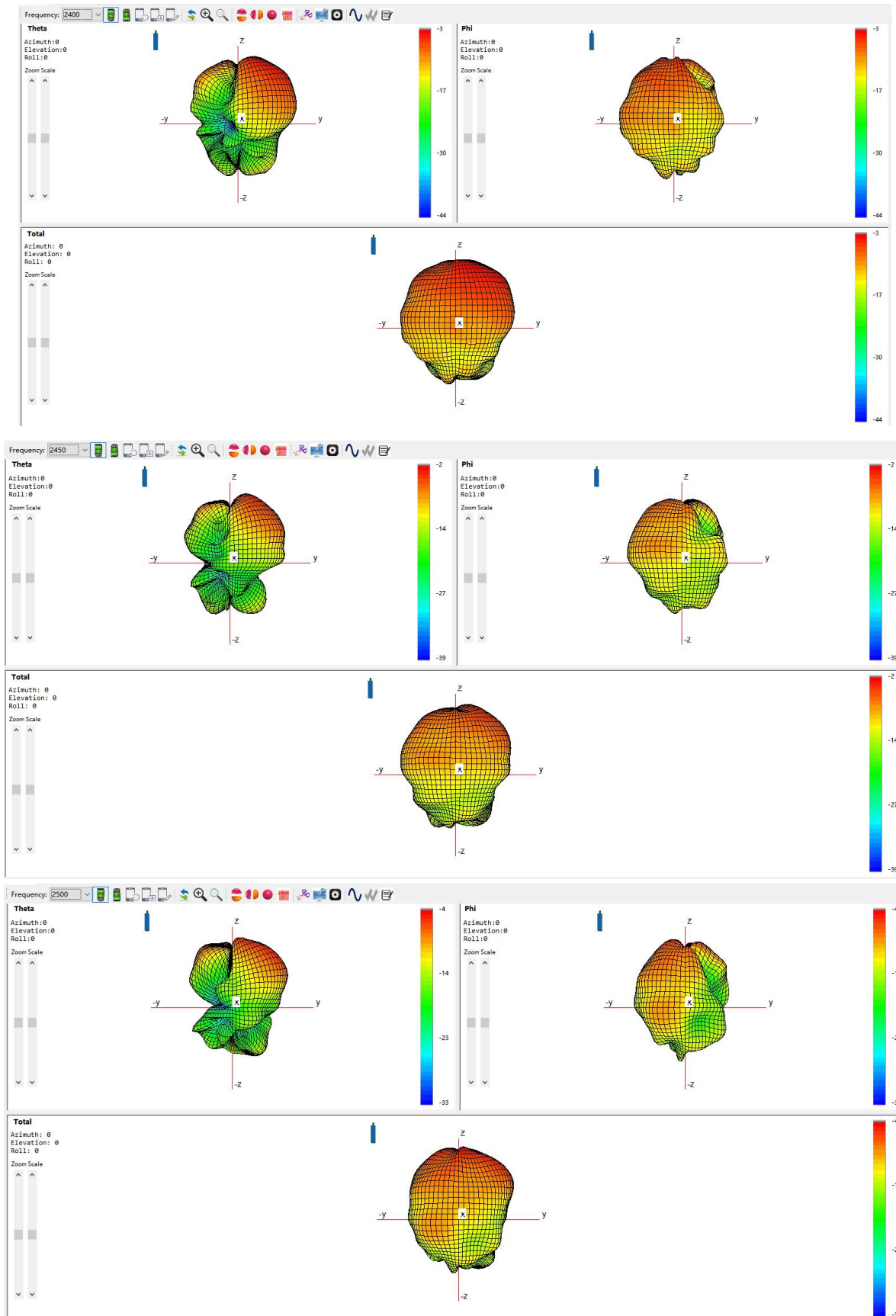
3. Electrical Performance

3.1 Matching Circuit Description



3.2 Gain&Efficiency

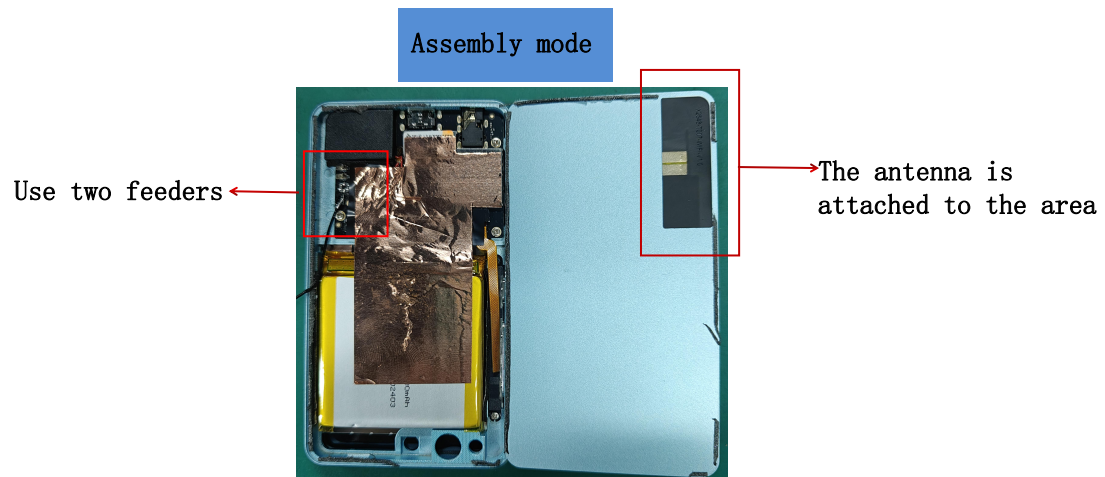
Passive test data		
Frequency	Gain	Effiency (%)
2400	-3.32	9.56
2410	-3.73	9.85
2420	-3.72	9.62
2430	-3.07	10.4
2440	-3.02	10.26
2450	-2.86	10.35
2460	-2.74	10.4
2470	-2.95	10.74
2480	-3.11	10.38
2490	-2.36	9.8
2500	-3.07	9.71



3.3 Antenna TRP&TIS test results

OTA Test data			
Mode	Band	TRP	TIS
802.11b	1	9.81	-79.55
	7	10.39	-79.87
	13	9.54	-78.76

3.4 Antenna mounting method

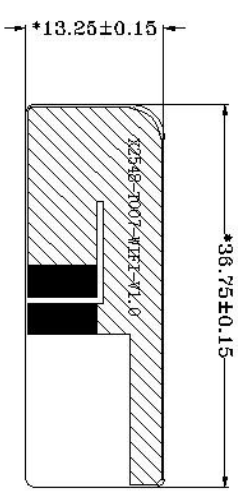
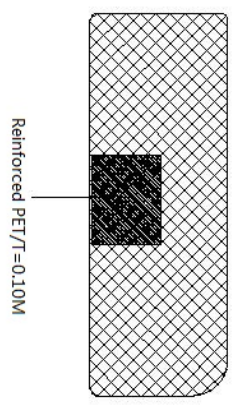


3.5 Bluetooth measurement results

Bluetooth measurement

1. Test time: 2024.01.22
2. Test location: Indoor on the first floor
3. Distance from the ground: 1.2m
4. 360-degree test distance without dead
Angle: 15m
5. Test phone: vivo S16

4. Antenna Engineer drawing

1	2	3	4	5	6								
环保要求: ☒ RoSH ☐ REACH 无													
A 													
B 													
<table border="0"> <tr> <td></td> <td>Copper-platinum line</td> </tr> <tr> <td></td> <td>Goldfinger</td> </tr> <tr> <td></td> <td>Rubber backing</td> </tr> <tr> <td></td> <td>Reinforce</td> </tr> </table>							Copper-platinum line		Goldfinger		Rubber backing		Reinforce
	Copper-platinum line												
	Goldfinger												
	Rubber backing												
	Reinforce												
C Technical requirements: 1, the * is the required size and key size, the copper foil line all dimensional tolerances do not exceed +0.05, the mold out of the shape of the dimensional tolerance does not exceed +0.1, the size of the figure shall prevail. 2, The surface of the wiring surface except the welding disc is the ink surface. 3, reliability test salt spray test (24H) \ rubber friction test \ alcohol resistance test \ constant temperature and humidity test \ hot and cold shock test \ gold hand guide foot flexibility test.													
D <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">深圳市和鸣微科技有限公司</td> </tr> <tr> <td style="width: 50%;"> 备注公差标准 0-10 ±0.05 10-18 ±0.06 18-30 ±0.08 30-40 ±0.09 40- ±0.10 </td> <td style="width: 50%;"> 机种 X2548-T007 品名 WIFI-FPC 料号 X2548-T007-WIFI-A00 材料 PI+Cu 特殊工艺 共 2 页 第 1 页 </td> </tr> <tr> <td style="text-align: center;"> 10-18 ±0.06 18-30 ±0.08 30-40 ±0.09 40- ±0.10 </td> <td style="text-align: center;"> 0.02 0.03 0.02 0.04 0.05 </td> </tr> <tr> <td colspan="2" style="text-align: center;"> 单位 mm 比例 1:1 审核 日期 2024.01.18 </td> </tr> </table>						深圳市和鸣微科技有限公司		备注公差标准 0-10 ±0.05 10-18 ±0.06 18-30 ±0.08 30-40 ±0.09 40- ±0.10	机种 X2548-T007 品名 WIFI-FPC 料号 X2548-T007-WIFI-A00 材料 PI+Cu 特殊工艺 共 2 页 第 1 页	10-18 ±0.06 18-30 ±0.08 30-40 ±0.09 40- ±0.10	0.02 0.03 0.02 0.04 0.05	单位 mm 比例 1:1 审核 日期 2024.01.18	
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E Black ink, black characters, half and half base material, pad gold plated, 3M9471 adhesive backing													
F <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">更改日期</td> <td style="width: 25%;">更改人</td> <td style="width: 25%;">更改内容</td> <td style="width: 25%;">备注</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>						更改日期	更改人	更改内容	备注	1	2	3	4
更改日期	更改人	更改内容	备注										
1	2	3	4										
G 第一视角													

5. Reliability Testing Report

customer		part number	FPC	Work Date	2024.01.20
Test item	Test requirement			Test result	Evaluation
neutral Salt-Fog test	Hydrochloric fog through neutral testing: In the time of 24 hours, no rust corrosion, color fading or solder peel off to the antenna fpc sop in Nacl 5%±1% PH value 6.5-7.2, above 85% humidity. and 35℃±2℃ Seals environment.			Norust corrosion, color fading or solder peel off on the antenna surface after testing	pass
tester: 伍海沅			approval: 伍海沅		