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深圳市亿圣邦科技有限公司

Shenzhen Yi Sheng Bang technology Co., LTD Antenna Test Report

Customer: 本顿

Project: D10A-3670

Product: WIFI/BT Antenna—FPC

Report date: 2026-07-02

Prepared by :陈仕联

Checked by :Eason Huang

Approved by :



Purpose

This report is to measure the performance of SLK for Master Antenna on本顿. All measure data are showed below.

Content

1. Product Overview

2. Test Result

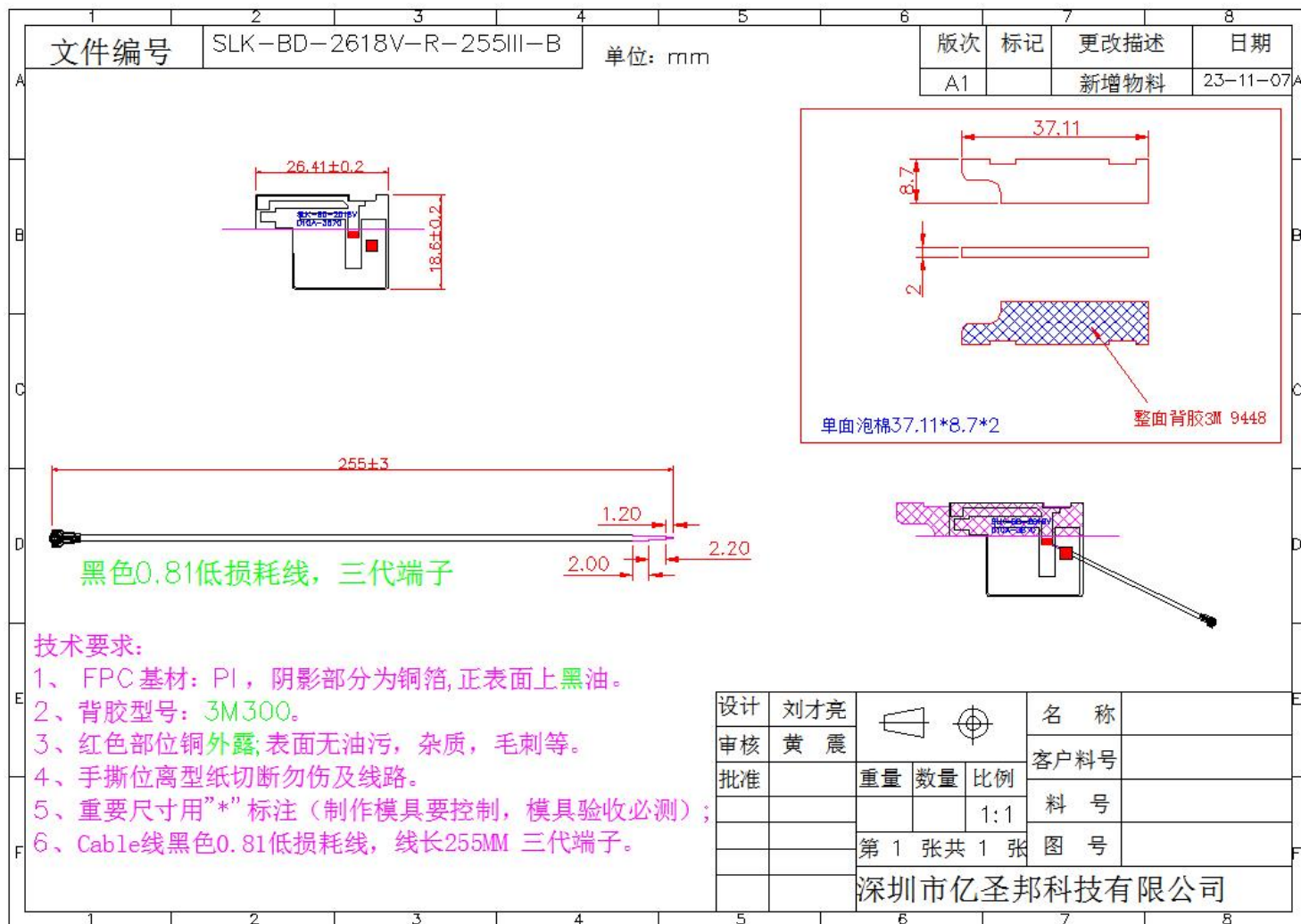
2.1 WIFI/BT Antenna VSWR/S11

2.2 WIFI/BT Antenna Gain/Efficiency/3D DATA

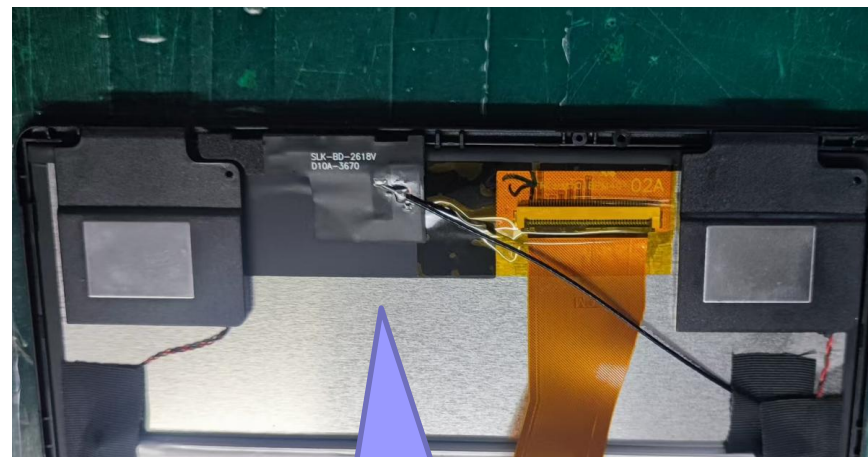
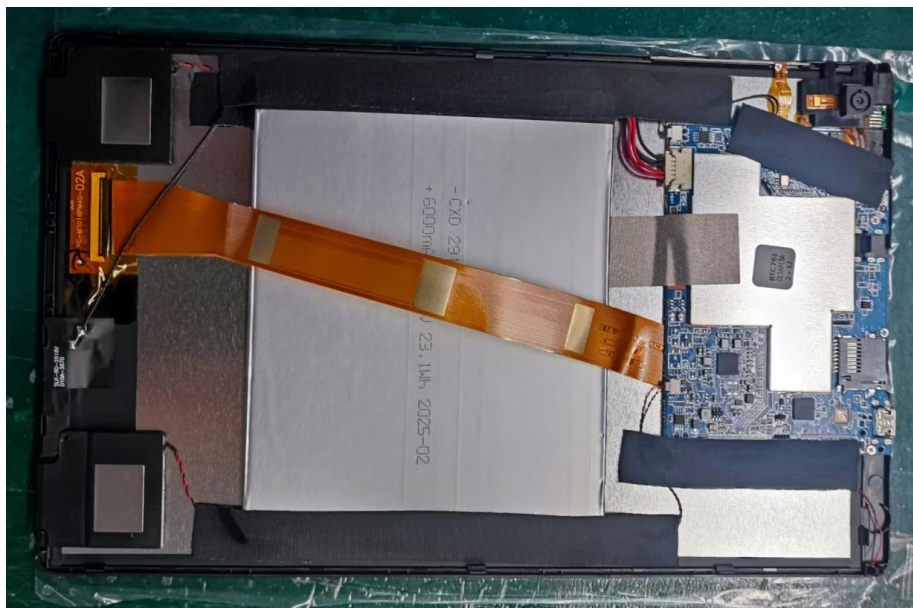
2.3 WIFI throughput test

2.4 GPS test

1. Product Overview & Dimension



1. Product Overview & Dimension



WIFI+GPS天线

2. Test Result

2.1 WIFI/BT Antenna VSWR/S11



2. Test Result

2.2 WIFI/BT Antenna Gain/Efficiency/3D DATA

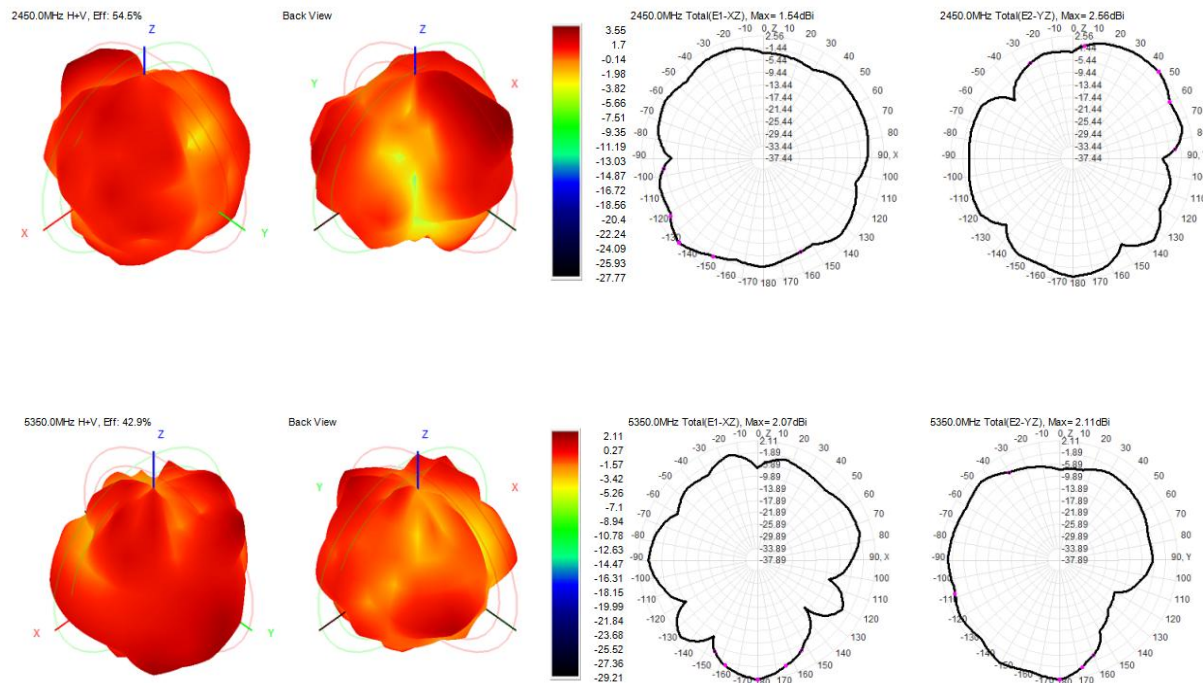
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.37	3.41	57.96
2410.0	-2.40	3.59	57.50
2420.0	-2.40	3.69	57.51
2430.0	-2.54	3.59	55.71
2440.0	-2.56	3.60	55.51
2450.0	-2.63	3.55	54.51
2460.0	-2.66	3.45	54.22
2470.0	-2.76	3.24	52.91
2480.0	-2.90	3.00	51.29
2490.0	-2.83	2.95	52.14
2500.0	-2.78	2.78	52.71
5150.0	-3.88	1.79	40.91
5250.0	-3.91	2.21	40.66
5350.0	-3.68	2.11	42.90
5550.0	-3.98	2.51	40.03
5750.0	-3.94	2.77	40.41
5850.0	-3.96	2.76	40.14

注：蓝牙跟2.4G
同频段，增益一
样

天线增益：
BT:2.95
2.4G:2.95
5G
5150-5250:1.79
5350-5450:2.11
5550-5650:2.51
5725-5750:2.77
5800-5850:2.76

2. Test Result

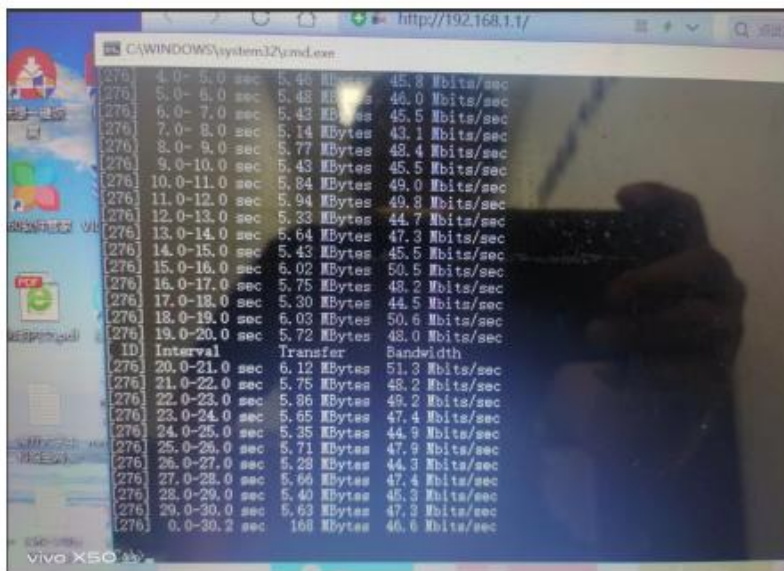
2.2 WIFI/BT Antenna Gain/Efficiency/3D DATA



2. Test Result

2.3 WIFI throughput test (WIFI吞吐量测试)

吞吐量测试



ID	Interval	Transfer	Bandwidth
276	4.0-5.0 sec	5.46 MBytes	45.8 Mbits/sec
276	5.0-6.0 sec	5.48 MBytes	46.0 Mbits/sec
276	6.0-7.0 sec	5.43 MBytes	45.5 Mbits/sec
276	7.0-8.0 sec	5.14 MBytes	43.1 Mbits/sec
276	8.0-9.0 sec	5.77 MBytes	48.4 Mbits/sec
276	9.0-10.0 sec	5.43 MBytes	45.5 Mbits/sec
276	10.0-11.0 sec	5.84 MBytes	49.0 Mbits/sec
276	11.0-12.0 sec	5.94 MBytes	49.8 Mbits/sec
276	12.0-13.0 sec	5.33 MBytes	44.7 Mbits/sec
276	13.0-14.0 sec	5.64 MBytes	47.3 Mbits/sec
276	14.0-15.0 sec	5.43 MBytes	45.5 Mbits/sec
276	15.0-16.0 sec	6.02 MBytes	50.5 Mbits/sec
276	16.0-17.0 sec	5.75 MBytes	48.2 Mbits/sec
276	17.0-18.0 sec	5.30 MBytes	44.5 Mbits/sec
276	18.0-19.0 sec	6.03 MBytes	50.6 Mbits/sec
276	19.0-20.0 sec	5.72 MBytes	48.0 Mbits/sec
276	20.0-21.0 sec	6.12 MBytes	51.3 Mbits/sec
276	21.0-22.0 sec	5.75 MBytes	48.2 Mbits/sec
276	22.0-23.0 sec	5.86 MBytes	49.2 Mbits/sec
276	23.0-24.0 sec	5.65 MBytes	47.4 Mbits/sec
276	24.0-25.0 sec	5.35 MBytes	44.9 Mbits/sec
276	25.0-26.0 sec	5.71 MBytes	47.9 Mbits/sec
276	26.0-27.0 sec	5.28 MBytes	44.3 Mbits/sec
276	27.0-28.0 sec	5.66 MBytes	47.4 Mbits/sec
276	28.0-29.0 sec	5.40 MBytes	45.3 Mbits/sec
276	29.0-30.0 sec	5.63 MBytes	47.3 Mbits/sec
276	0.0-30.2 sec	168 MBytes	46.6 Mbits/sec

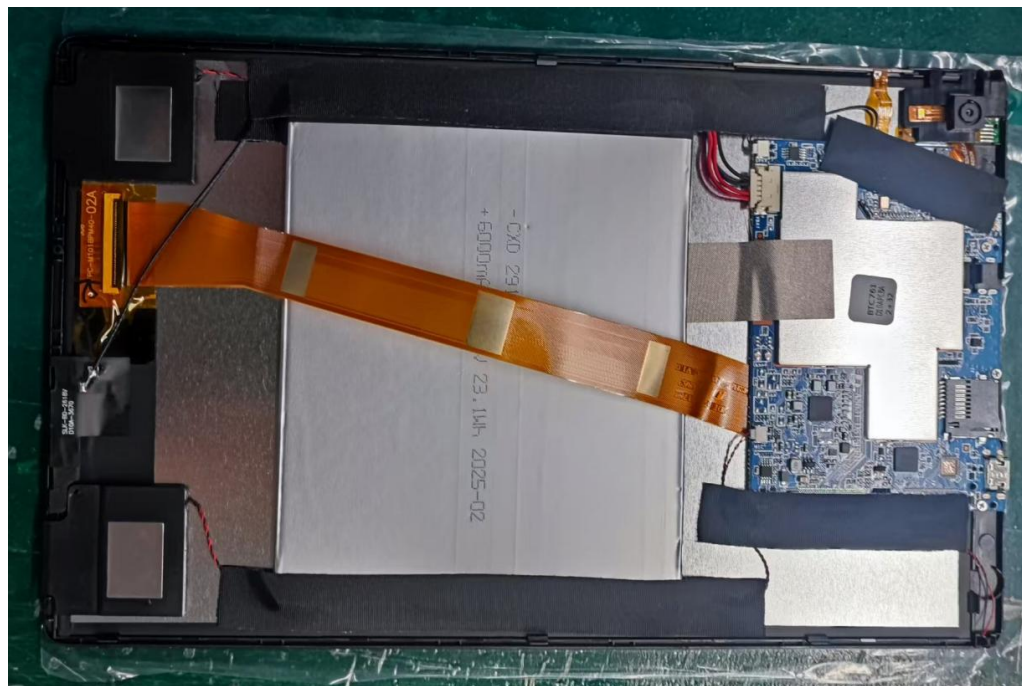
2.4G 十米下载



ID	Interval	Transfer	Bandwidth
276	4.0-5.0 sec	5.46 MBytes	45.8 Mbits/sec
276	5.0-6.0 sec	5.48 MBytes	46.0 Mbits/sec
276	6.0-7.0 sec	5.43 MBytes	45.5 Mbits/sec
276	7.0-8.0 sec	5.14 MBytes	43.1 Mbits/sec
276	8.0-9.0 sec	5.77 MBytes	48.4 Mbits/sec
276	9.0-10.0 sec	5.43 MBytes	45.5 Mbits/sec
276	10.0-11.0 sec	5.84 MBytes	49.0 Mbits/sec
276	11.0-12.0 sec	5.94 MBytes	49.8 Mbits/sec
276	12.0-13.0 sec	5.33 MBytes	44.7 Mbits/sec
276	13.0-14.0 sec	5.64 MBytes	47.3 Mbits/sec
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276	15.0-16.0 sec	6.02 MBytes	50.5 Mbits/sec
276	16.0-17.0 sec	5.75 MBytes	48.2 Mbits/sec
276	17.0-18.0 sec	5.30 MBytes	44.5 Mbits/sec
276	18.0-19.0 sec	6.03 MBytes	50.6 Mbits/sec
276	19.0-20.0 sec	5.72 MBytes	48.0 Mbits/sec
276	20.0-21.0 sec	6.12 MBytes	51.3 Mbits/sec
276	21.0-22.0 sec	5.75 MBytes	48.2 Mbits/sec
276	22.0-23.0 sec	5.86 MBytes	49.2 Mbits/sec
276	23.0-24.0 sec	5.65 MBytes	47.4 Mbits/sec
276	24.0-25.0 sec	5.35 MBytes	44.9 Mbits/sec
276	25.0-26.0 sec	5.71 MBytes	47.9 Mbits/sec
276	26.0-27.0 sec	5.28 MBytes	44.3 Mbits/sec
276	27.0-28.0 sec	5.66 MBytes	47.4 Mbits/sec
276	28.0-29.0 sec	5.40 MBytes	45.3 Mbits/sec
276	29.0-30.0 sec	5.63 MBytes	47.3 Mbits/sec
276	0.0-30.2 sec	168 MBytes	46.6 Mbits/sec

2.4G 十米上传

5. Conclusions



环境处理:

- 1.在主板底部漏铜区贴上导电海绵与屏接触。
- 2.在主板屏蔽罩拉一块导电布与屏接触。
- 3.屏排线拉一块导电布包起来屏蔽。