

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: 科金明

Project: K240

WIFI : SLK-KJM-2813P2-M-90I-B-1.13

BT: SLK-KJM-2813P1-M-90I-G-1.13

Product: WIFI Antenna—FPC

Report date: 2025.05.14

Prepared by : 范新竹

Checked by : Eason Huang

Approved by :

Purpose

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

Content

1. Product Overview

2. Test Result

2.1 VSWR/S11

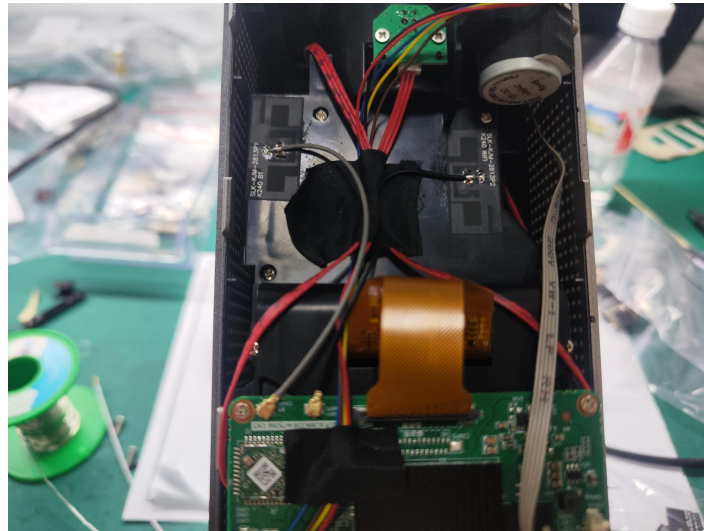
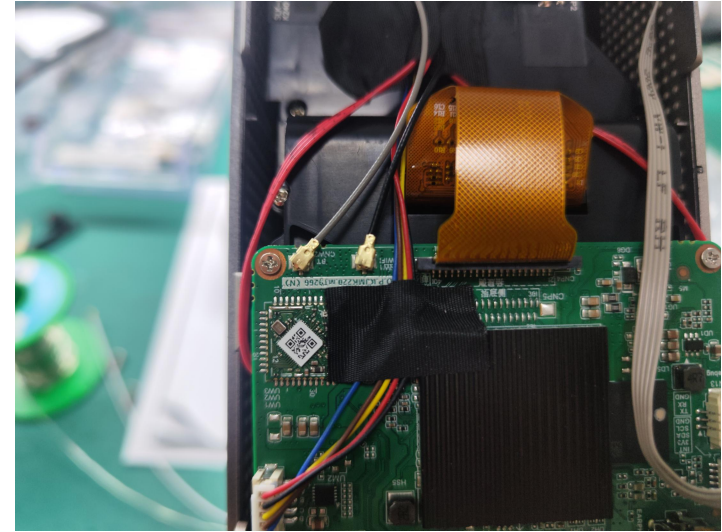
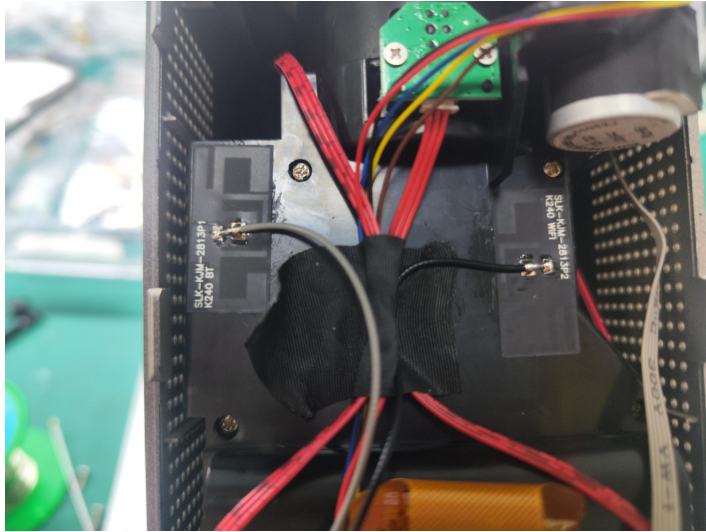
2.2 Antenna Parameters

2.3 WIFI Antenna TRP/TIS

2.4 WIFI Antenna Gain/Efficiency/3D DATA

3. Conclusions

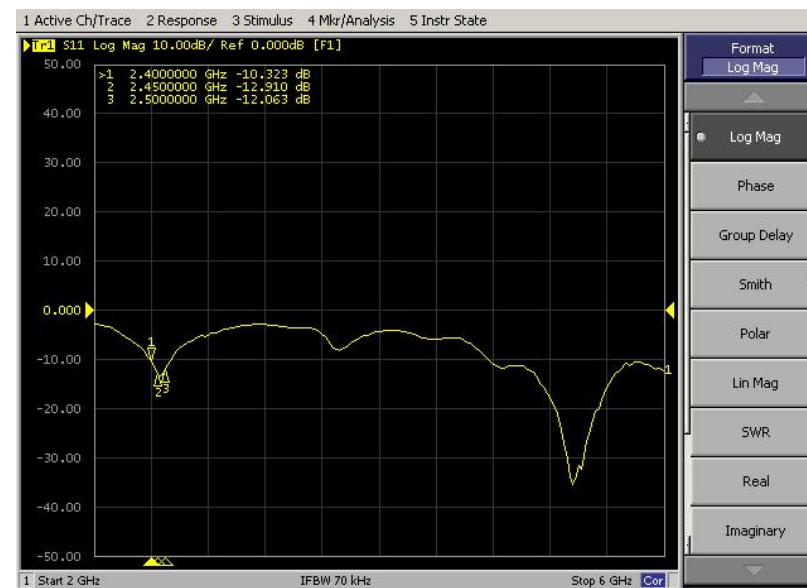
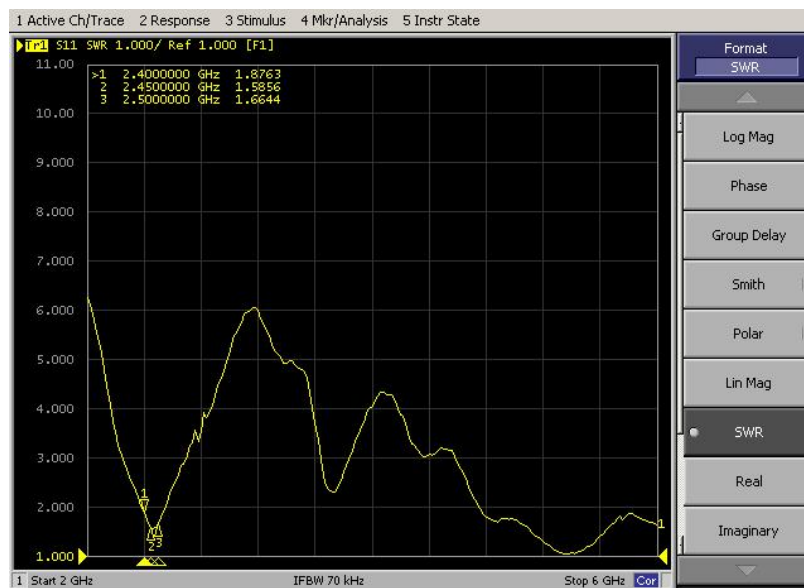
1. Product Overview



2. Test Result

2.1 VSWR/S11

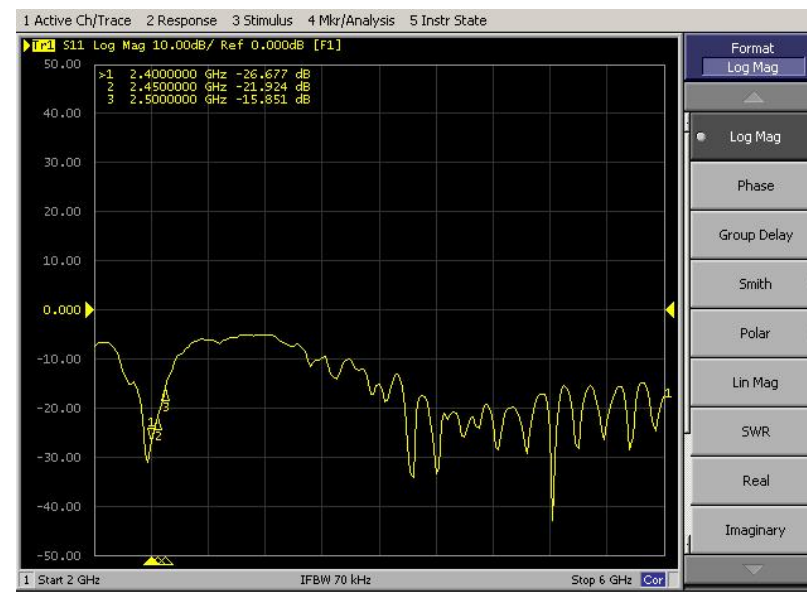
WIFI



2. Test Result

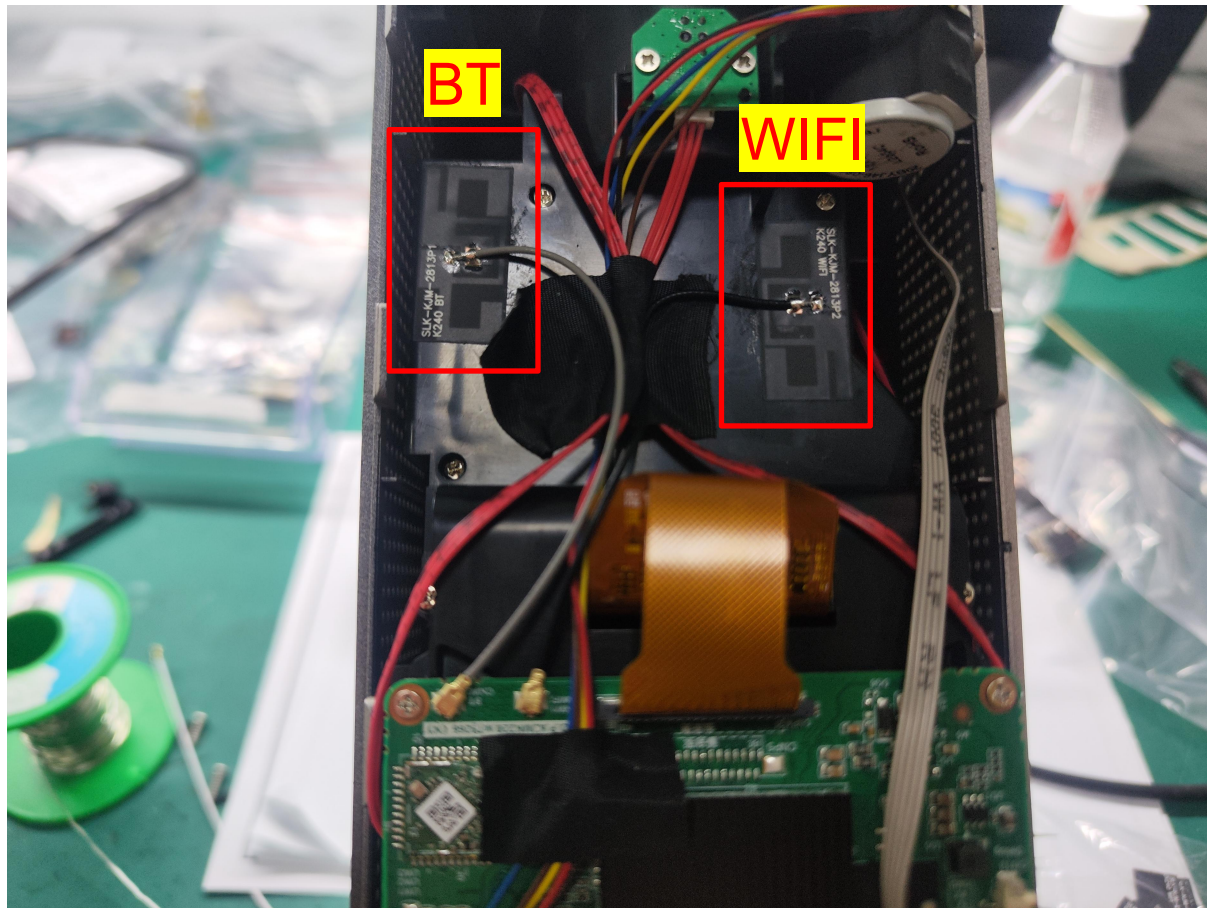
2.1 VSWR/S11

BT



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	12.55	-70.5	802.11g	1	11.42	-64.32
	149	13.85	-70.9		6	11.35	-65.14
	165	13.36	-70.64		11	11.99	-65.87
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	13.52	-77.43	802.11n	1	10.51	-60.58
	6	13.69	-78.23		6	10.2	-61.82
	11	13.49	-78.94		11	10.78	-61.51

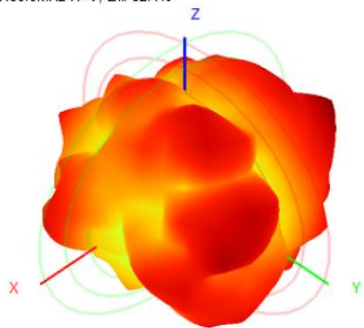
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

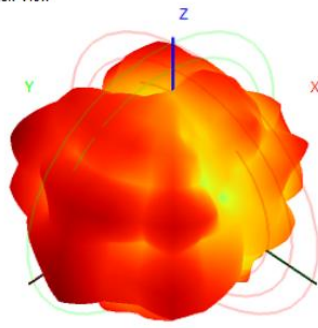
WIFI

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-2.91	-2.99	-2.86	-2.84	-2.80	-2.80	-2.84	-2.78	-2.76	-2.84	-2.89	-2.64	-2.86	-2.92	-2.83	-2.80
Gain (dBi)	2.12	2.04	2.10	2.19	2.30	2.25	2.16	2.26	2.24	2.33	2.39	2.63	2.29	2.67	2.14	2.94
Efficiency (%)	51.08	50.13	51.66	51.96	52.42	52.43	51.97	52.69	52.94	51.91	51.35	54.33	51.70	51.04	52.05	52.48

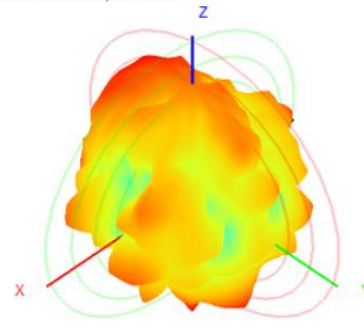
2450.0MHz H+V, Eff 52.4%



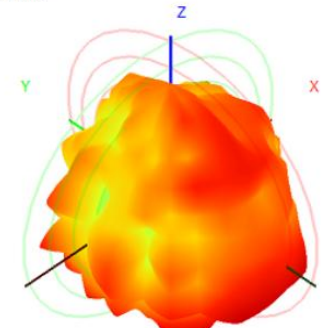
Back View



5850.0MHz H+V, Eff 52.5%



Back View



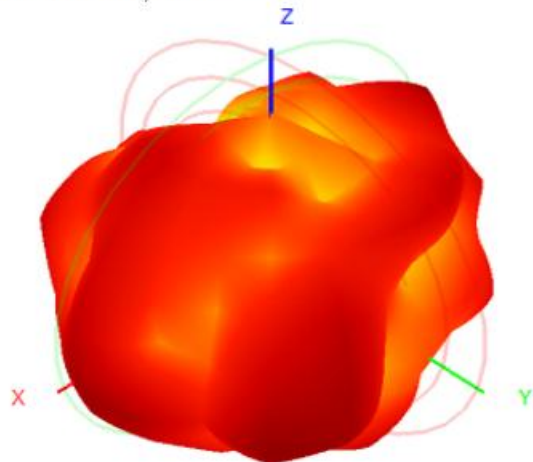
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

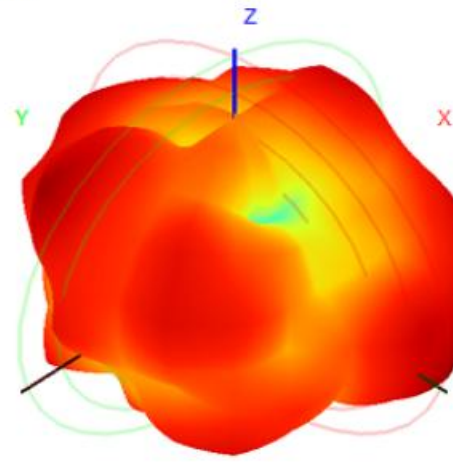
BT

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-2.95	-2.77	-2.68	-2.62	-2.77	-2.82	-2.74	-2.88	-2.83	-2.79	-3.00
Gain (dBi)	2.10	2.46	2.67	3.02	2.71	2.66	2.64	2.64	2.52	2.80	2.63
Efficiency (%)	50.70	52.83	53.92	54.69	52.83	52.30	53.23	51.47	52.07	52.66	50.16

2450.0MHz H+V, Eff: 52.3%



Back View





3. Conclusions

Thank you