

深圳市亿圣邦科技有限公司

The Holy bond Electronics Co., Ltd. Antenna Test Report

Customer: 科金明

Project: 350D

WIFI : SLK-KJM-2813E-M-140I-B-1.13DS

BT: SLK-KJM-2813J-M-150I-W-1.13DS

Product: WIFI Antenna—FPC

Report date: 2025.04.19

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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

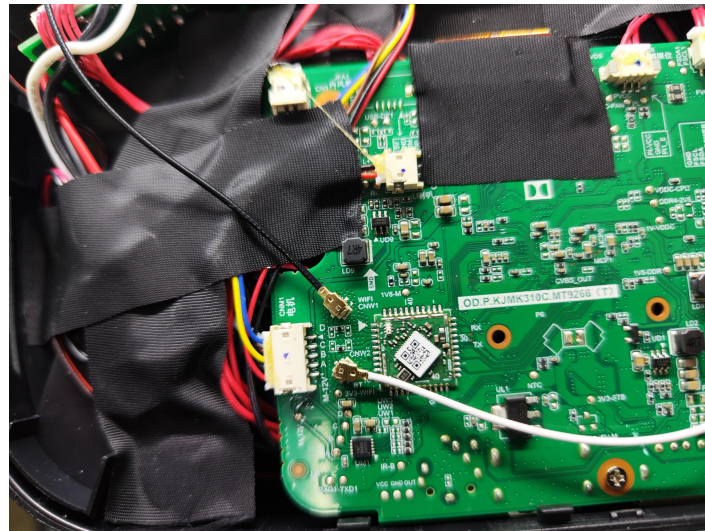
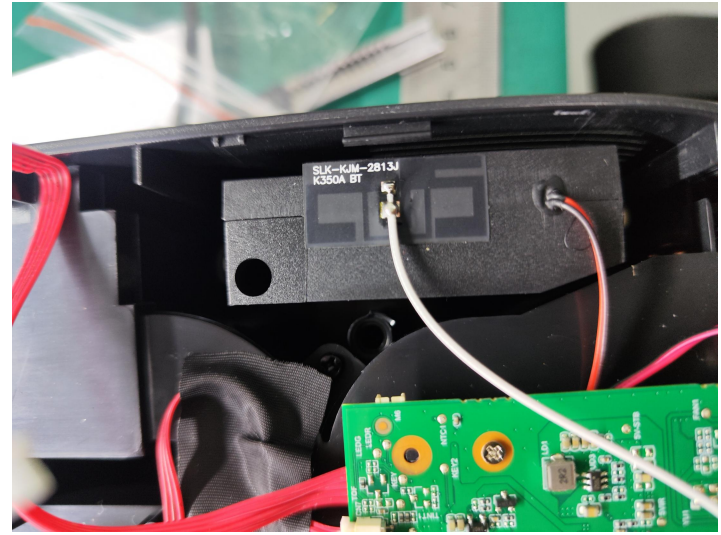
2.2 Antenna Parameters

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3. Conclusions

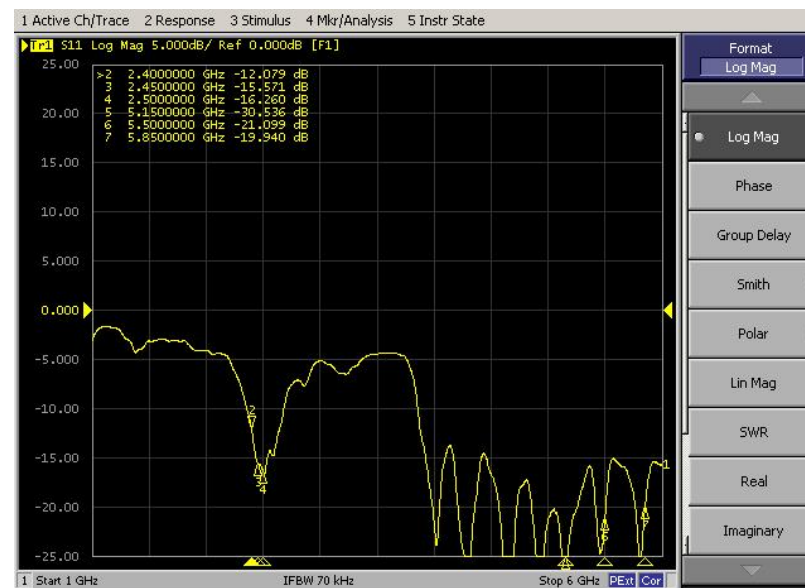
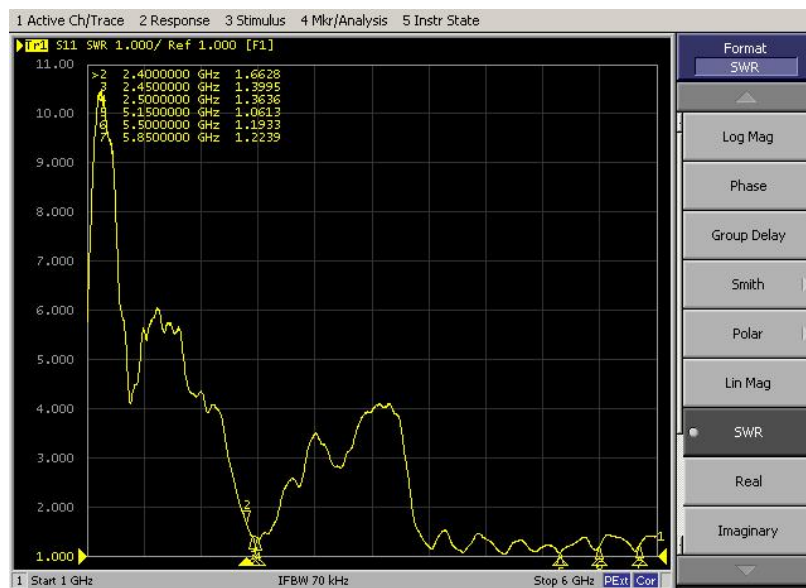
1. Product Overview



2. Test Result

2.1 VSWR/S11

WIFI



2. Test Result

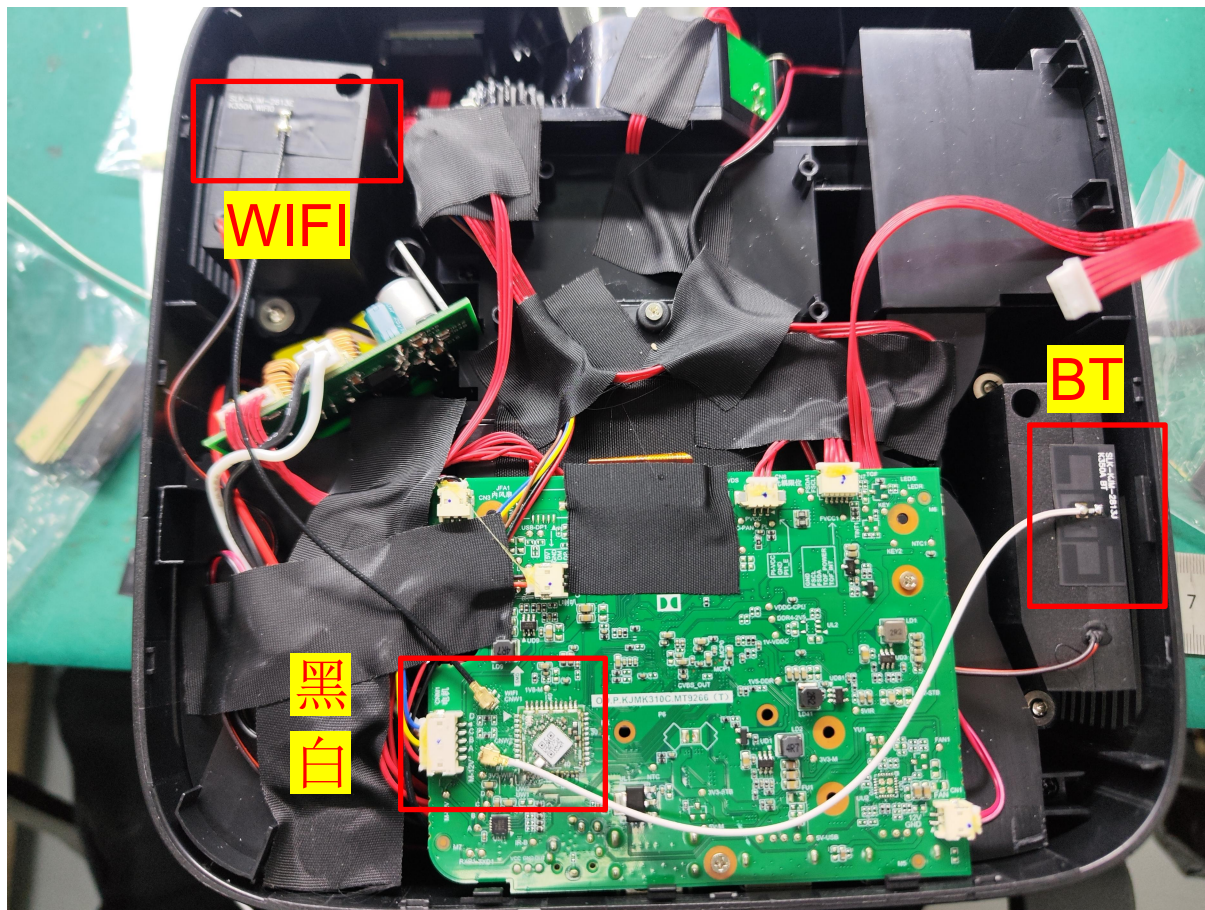
2.1 VSWR/S11

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	14.19	-68.7	802.11g	1	13.56	-65.34
	149	14.65	-68.43		6	13.92	-66.93
	165	14.87	-68.89		11	13.95	-66.12
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	14.96	-78.03	802.11n	1	14.22	-63.84
	6	14.33	-78.61		6	14.4	-63.76
	11	14.63	-78.87		11	14.18	-62.32

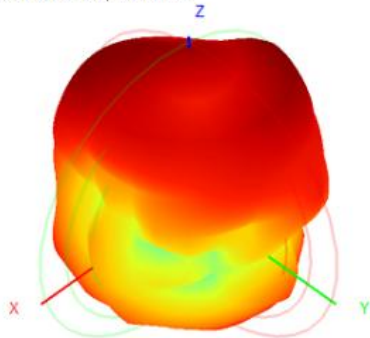
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

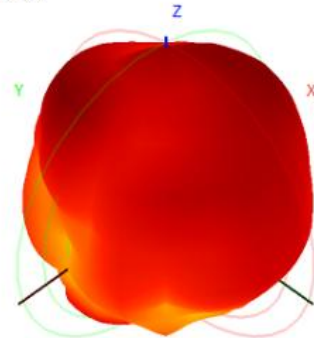
WIFI

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.00	-2.98	-2.78	-2.84	-2.89	-2.99	-2.76	-2.99	-2.95	-2.87	-2.81	-3.98	-3.71	-3.48	-3.50	-3.04
Gain (dBi)	2.24	1.95	1.87	1.60	1.28	0.88	0.90	1.19	1.59	1.90	2.18	2.03	2.26	2.24	2.19	2.72
Efficiency (%)	50.11	50.32	52.73	52.01	51.36	50.26	53.01	50.23	50.67	51.67	52.32	40.00	42.56	44.86	44.66	49.71

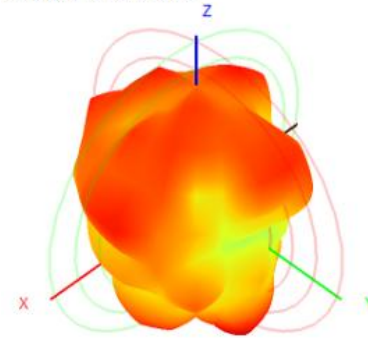
2450.0MHz H+V, Eff: 50.3%



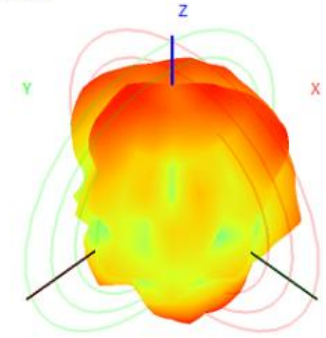
Back View



5850.0MHz H+V, Eff: 49.7%



Back View



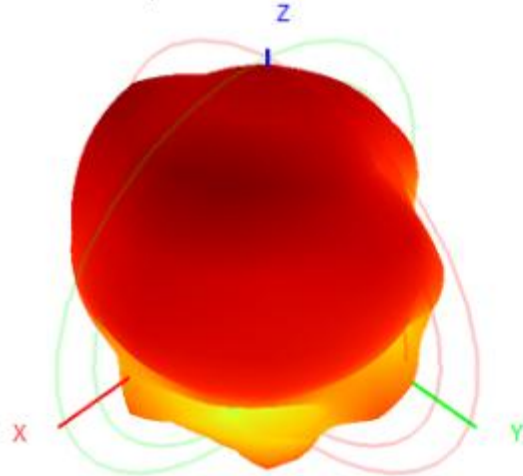
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

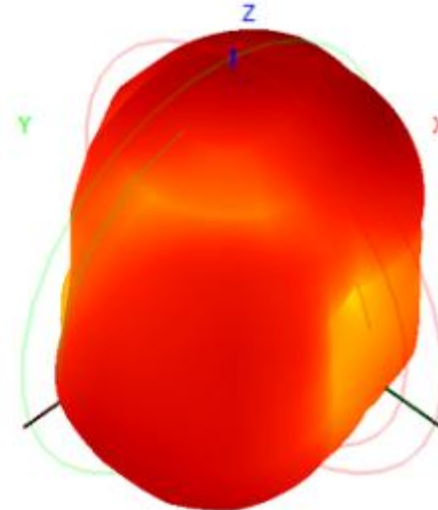
BT

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-3.51	-3.53	-3.43	-3.34	-3.43	-3.42	-3.23	-3.34	-3.26	-3.27	-3.19
Gain (dBi)	2.23	2.18	2.32	2.57	2.60	2.55	2.65	2.62	2.93	2.81	2.77
Efficiency (%)	44.52	44.34	45.32	46.28	45.39	45.47	47.46	46.27	47.14	47.04	47.90

2450.0MHz H+V, Eff: 45.5%



Back View





3. Conclusions

Thank you