

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd

Address: Room 101, Building C, Qianwan Hard Technology Industrial Park, Baoan District, Shenzhen

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

Customer: 科金明

Project: NPX950

Product: WIFI Antenna—FPC

Report date: 2025.07.21

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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

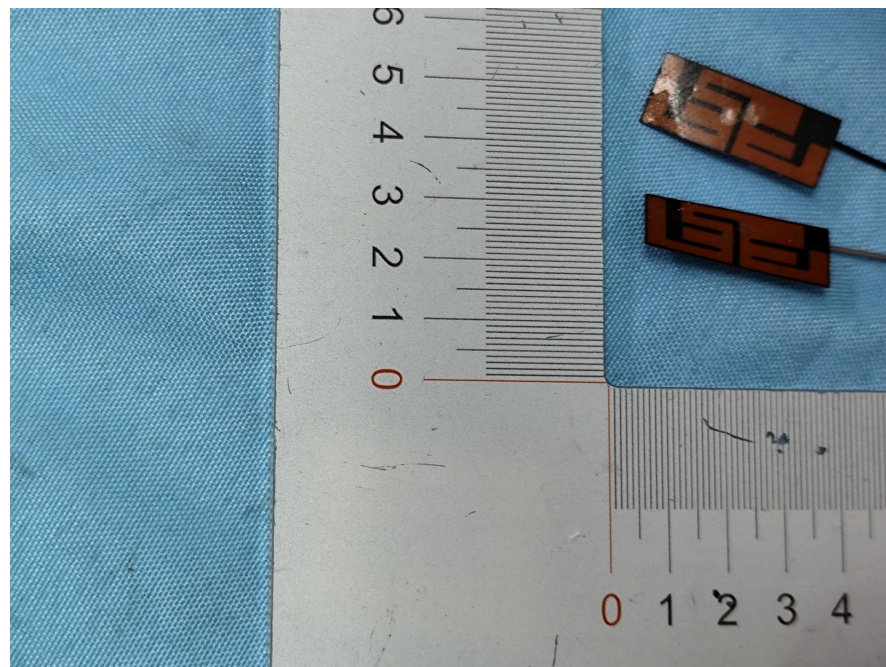
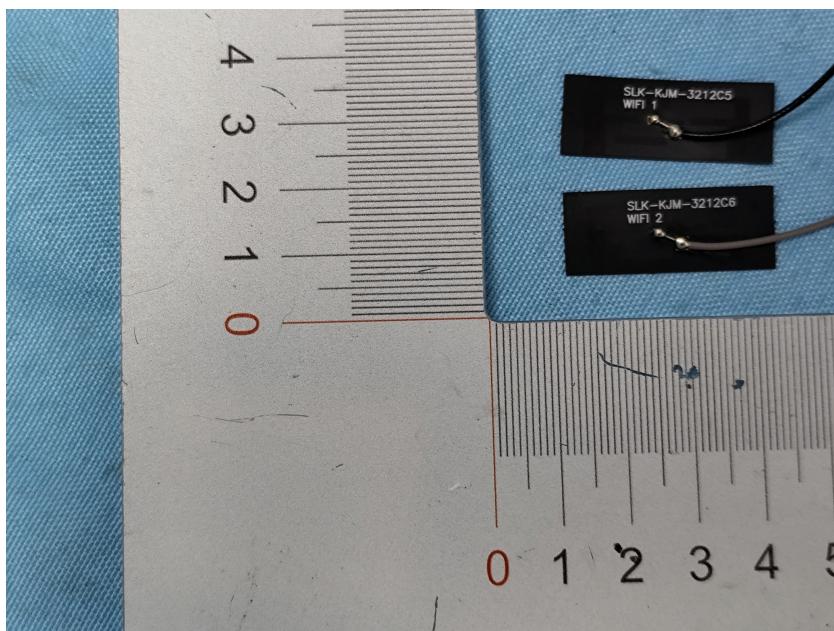
2.2 Antenna Parameters

2.3 WIFI Antenna TRP/TIS

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3. Conclusions

1. Product Overview



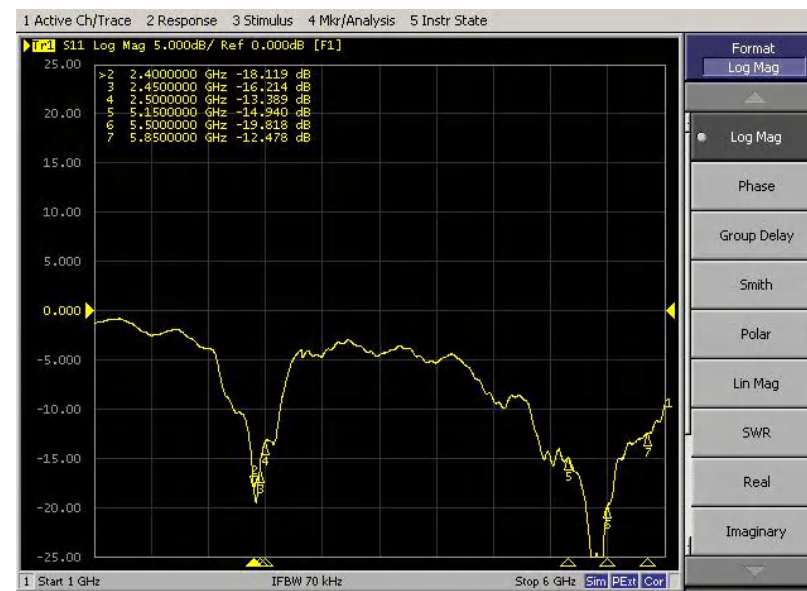
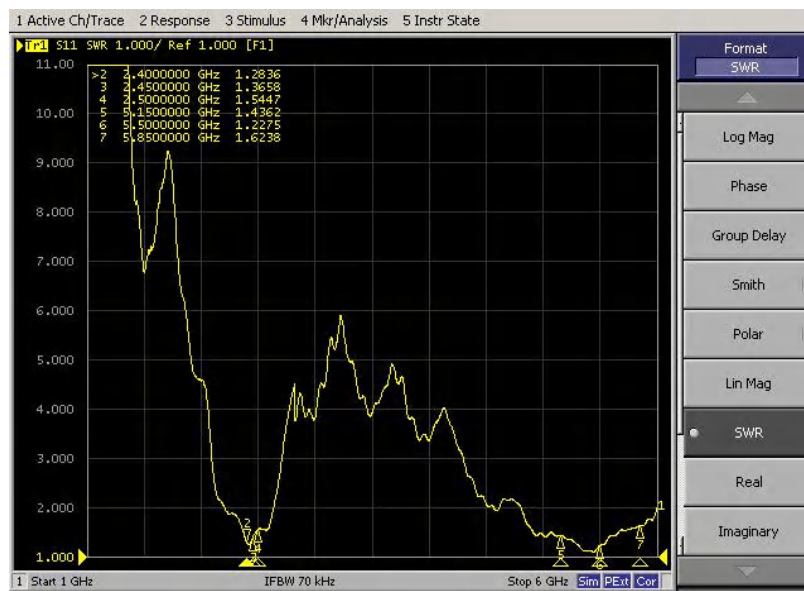
1. Product Overview



2. Test Result

2.1 VSWR/S11

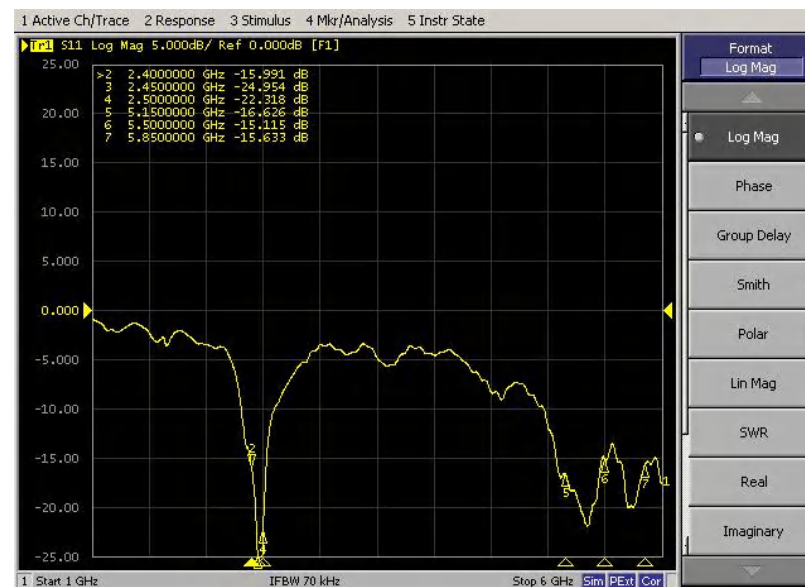
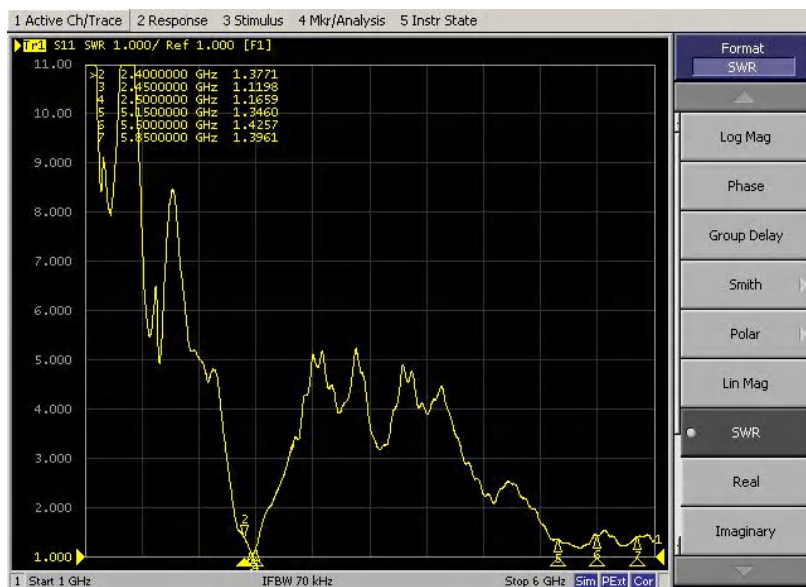
WIFI



2. Test Result

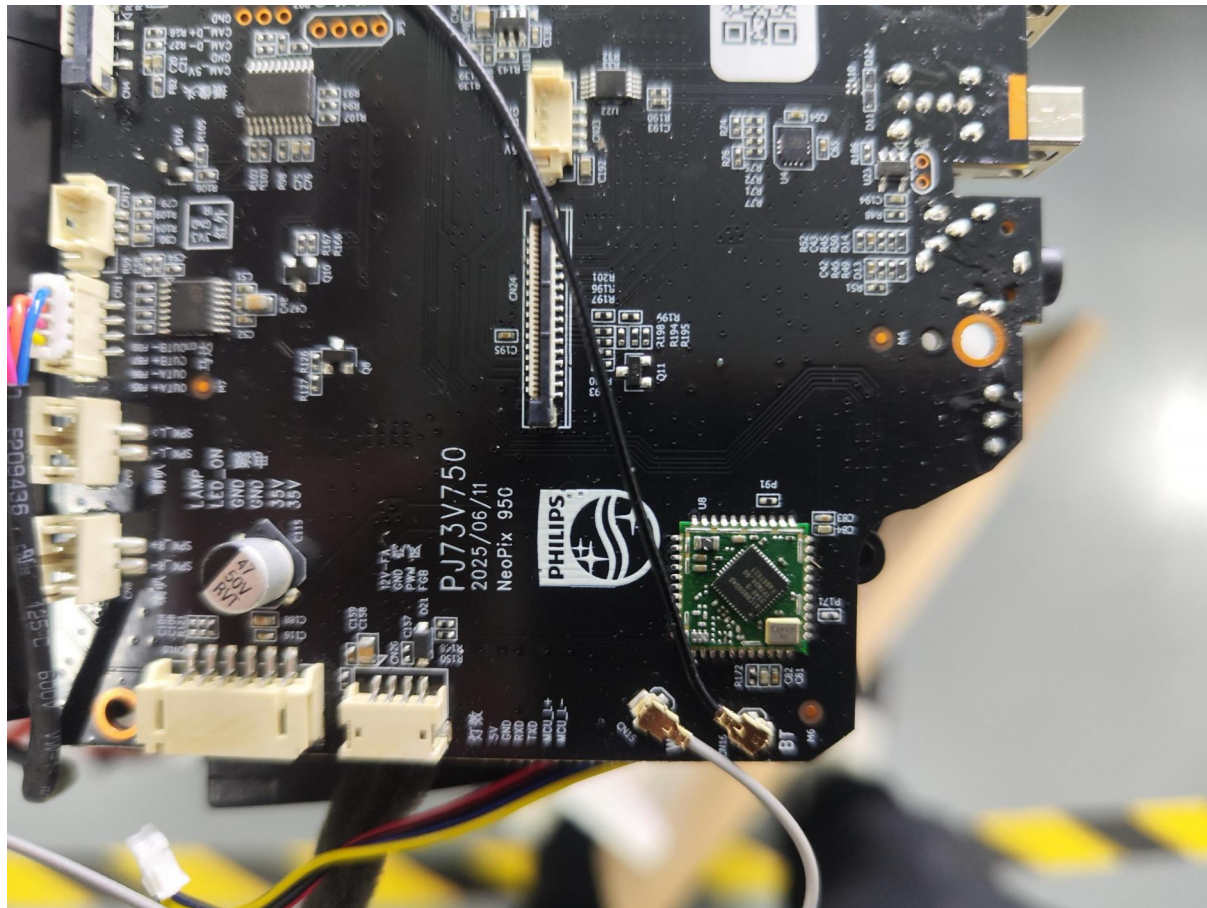
2.1 VSWR/S11

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	8.13	-71.75	802.11g	1	14.08	-65.82
	149	8.35	-71.72		6	13.97	-65.88
	165	10.39	-72.19		11	12.21	-63.17
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	15.43	-78.32	802.11n	1	14.3	-63.15
	6	14.65	-78.32		6	13.64	-62.45
	11	14.53	-76.5		11	12.21	-60.14

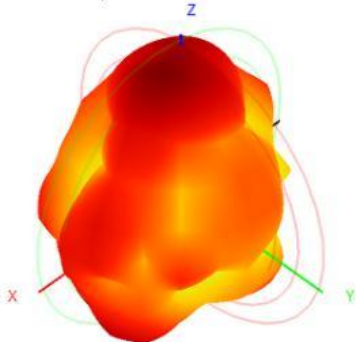
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

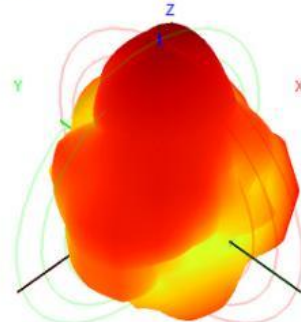
WIFI

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.38	-3.06	-2.87	-2.77	-2.82	-2.84	-2.86	-2.89	-2.77	-2.88	-3.06	-4.11	-3.38	-3.25	-3.31	-2.94
Gain (dBi)	1.24	1.56	1.62	2.00	2.42	2.83	2.92	3.14	3.13	2.88	2.87	2.31	2.32	2.51	2.25	2.45
Efficiency (%)	45.96	49.43	51.62	52.88	52.20	52.05	51.72	51.35	52.90	51.58	49.41	38.81	45.95	47.29	46.64	50.77

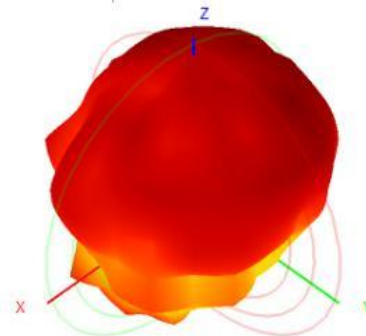
2450.0MHz H+V, Eff: 52.0%



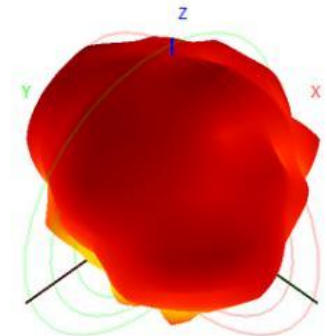
Back View



5850.0MHz H+V, Eff: 50.8%



Back View



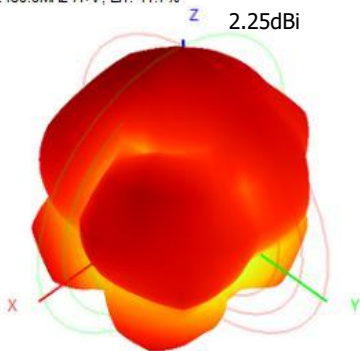
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

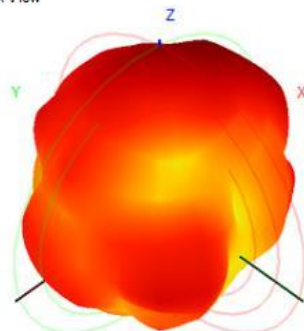
BT

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.95	-3.76	-3.71	-3.68	-3.84	-3.80	-3.67	-3.73	-3.76	-3.83	-3.94	-4.31	-4.12	-3.49	-3.46	-3.11
Gain (dBi)	1.93	2.11	2.07	1.97	1.97	2.25	2.46	2.63	2.52	2.41	2.38	2.60	2.58	2.81	2.47	2.49
Efficiency (%)	40.31	42.10	42.60	42.87	41.32	41.69	42.98	42.37	42.07	41.44	40.36	37.09	38.75	44.74	45.06	48.81

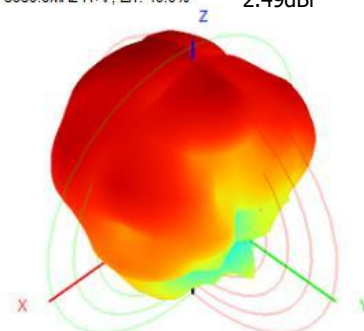
2450.0MHz H+V, Eff: 41.7%
2.25dBi



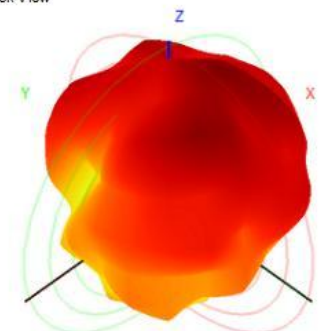
Back View



5850.0MHz H+V, Eff: 48.8%
2.49dBi



Back View





3. Conclusions

Thank you