

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: 艾科

Project: P2-H713-V1.1

WIFI : SLK-AK-3110B-L-140I-B

Product: WIFI Antenna—FPC

Report date: 2024.02.01

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Approved by :

Purpose

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

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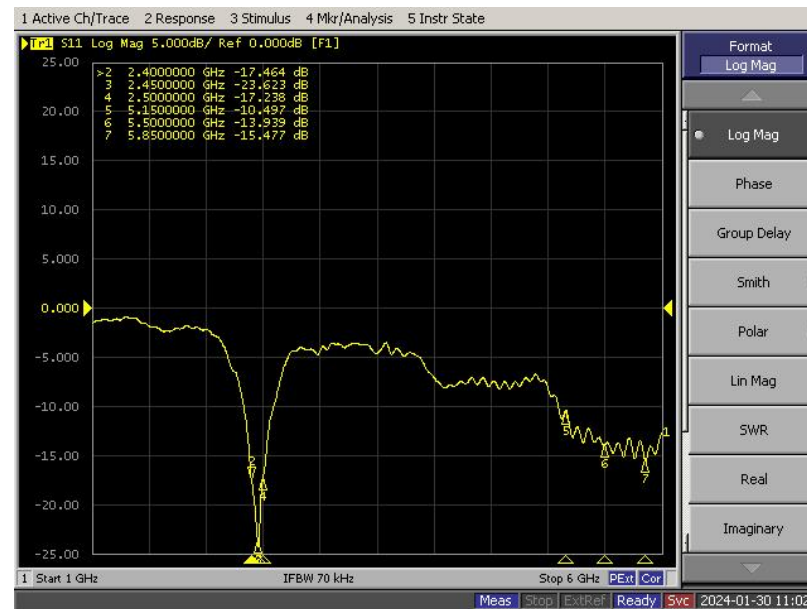
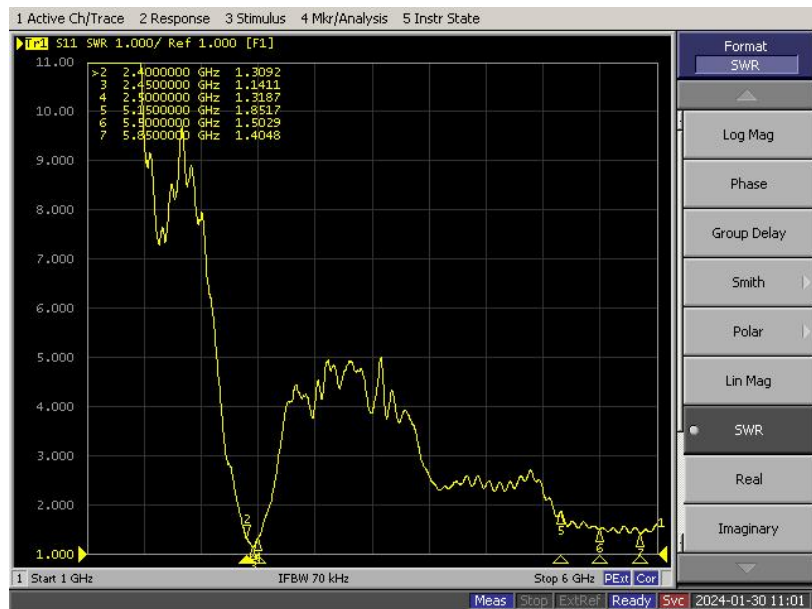
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1. Product Overview



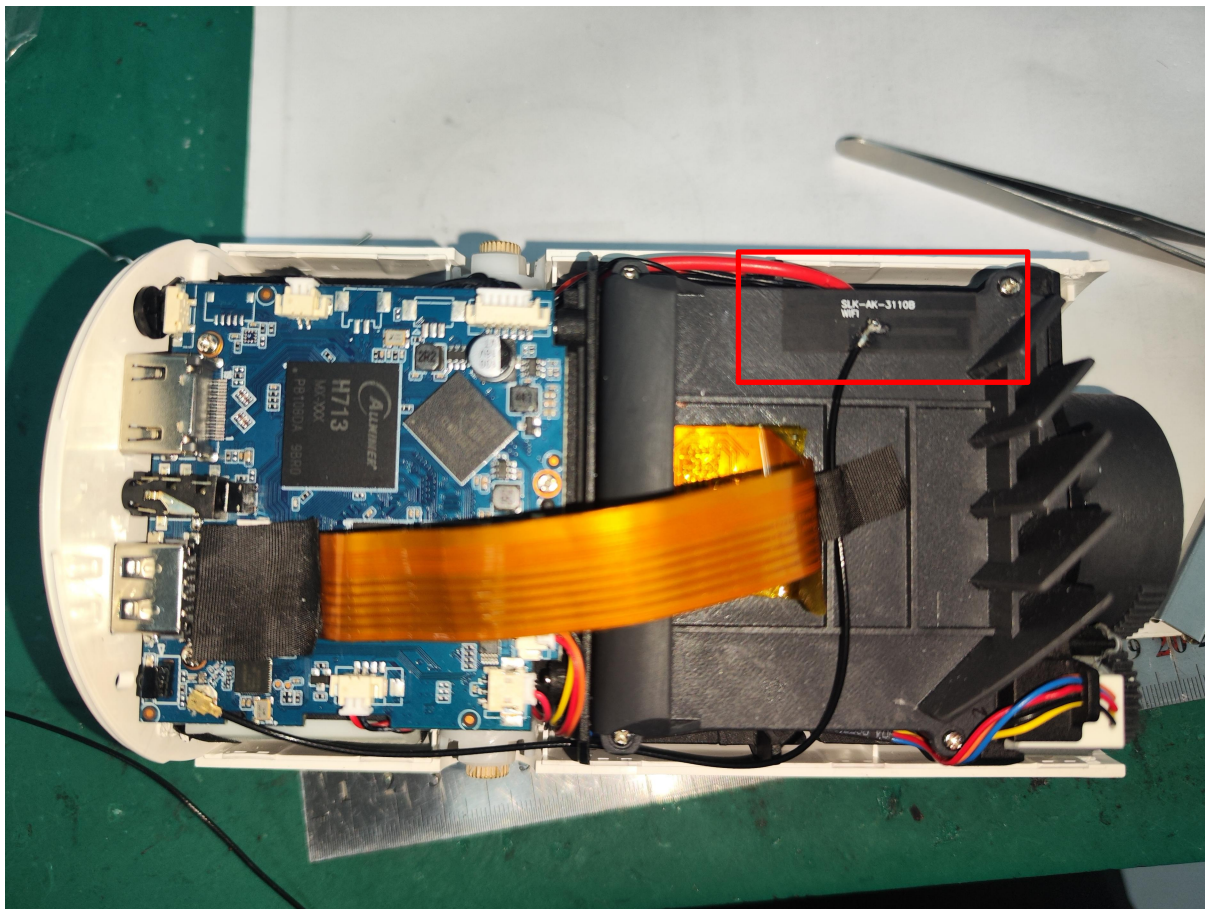
2. Test Result

2.1 VSWR/S11



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Conduction

WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	13.8	/	802.11g	1	12.4	/
	149	13	/		6	12.1	/
	165	13.4	/		11	11.8	/
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	11.1	/	802.11n	1	12.5	/
	6	10.8	/		6	12.1	/
	11	10.8	/		11	12	/

2. Test Result

2.4 WIFI Antenna TRP/TIS

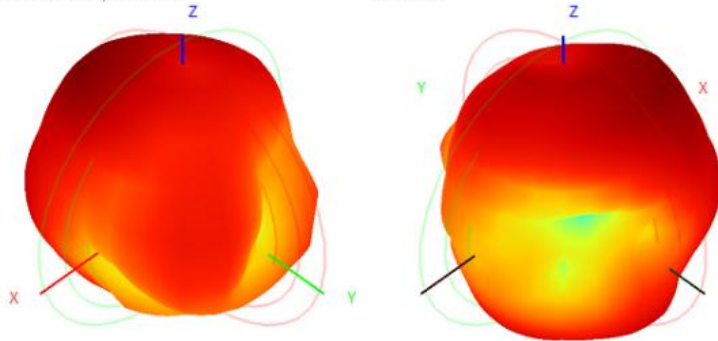
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	10.04	-71.39	802.11g	1	10.47	-70.03
	149	12.8	-71.27		6	10.56	-71.95
	165	12.85	-71.43		11	10.76	-69.44
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	8.85	-80.46	802.11n	1	10.16	-65.34
	6	8.85	-81.19		6	10.66	-67.73
	11	9.42	-82.01		11	10.92	-66.73

2. Test Result

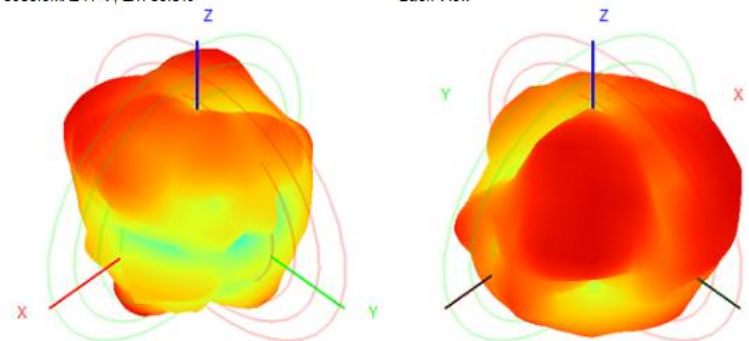
2.5 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-2.73	-2.64	-2.71	-2.73	-2.95	-3.05	-2.97	-3.08	-2.94	-2.87	-2.89	-3.83	-3.50	-3.02	-3.25	-2.97
Gain (dBi)	2.48	2.59	2.64	2.60	2.43	2.35	2.32	2.46	2.50	2.49	2.38	2.39	2.21	2.08	2.10	2.89
Efficiency (%)	53.38	54.42	53.58	53.37	50.74	49.57	50.42	49.26	50.84	51.69	51.40	41.41	44.69	49.89	47.32	50.46

2450.0MHz H+V, Eff: 49.6%



5850.0MHz H+V, Eff: 50.5%



2. Test Result

2.6 WIFI Antenna Throughput

2.4上传	2.4下载	5.8上传	5.8下载
101M	100M	166M	161M

测试环境：室内无障碍环境下，距离路由器1M；蓝牙10米播放音乐无卡顿；



3. Conclusions

Thank you