

Antenna Specification

Shenzhen Yishengbang Technology Co., Ltd.

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Fengmi

Project: Laser TV

Product: WIFI Antenna—FPC

Report date: 2023.06.16

Prepared by : Fan Xinzhu

Checked by: Huang Zhen

Approved by : Lin Meicai

18666299104

18025305599

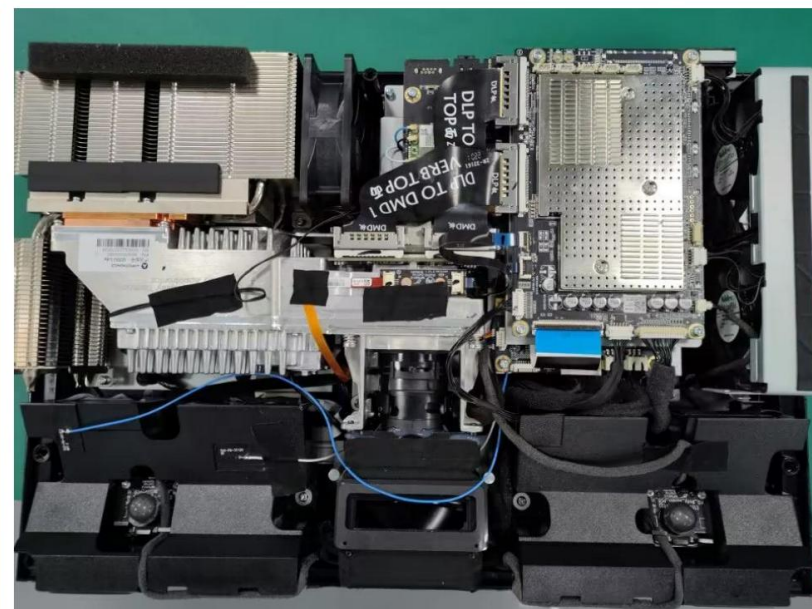
Purpose

This report is to measure the performance of SLK for Master Antenna on \ddot{y} . 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

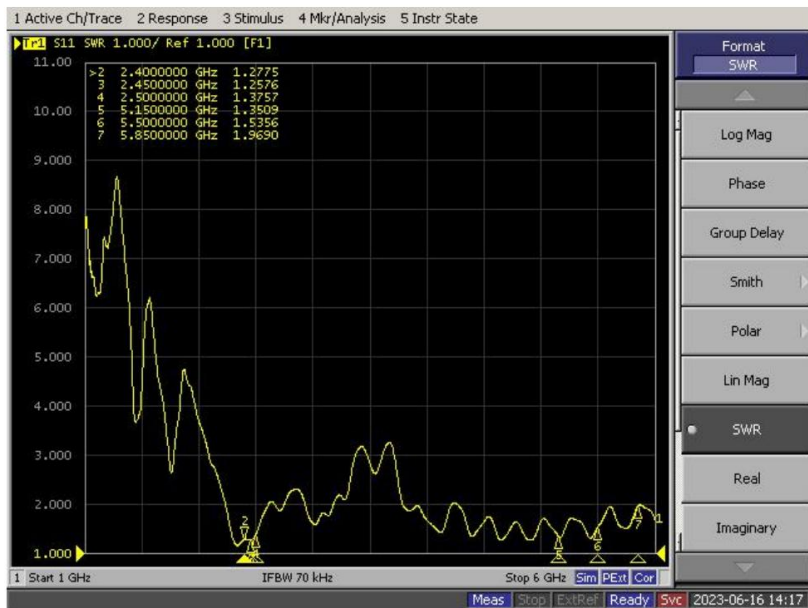
1. Product Overview



2. Test Result

2.1 VSWR/S11

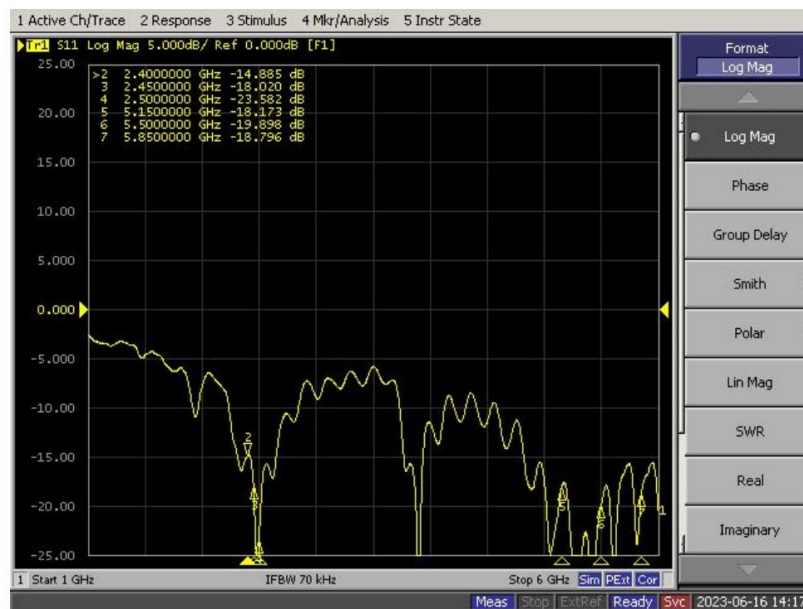
Black line-WIFI 1



2. Test Result

2.1 VSWR/S11

Blue line-WIFI 2



2. Test Result

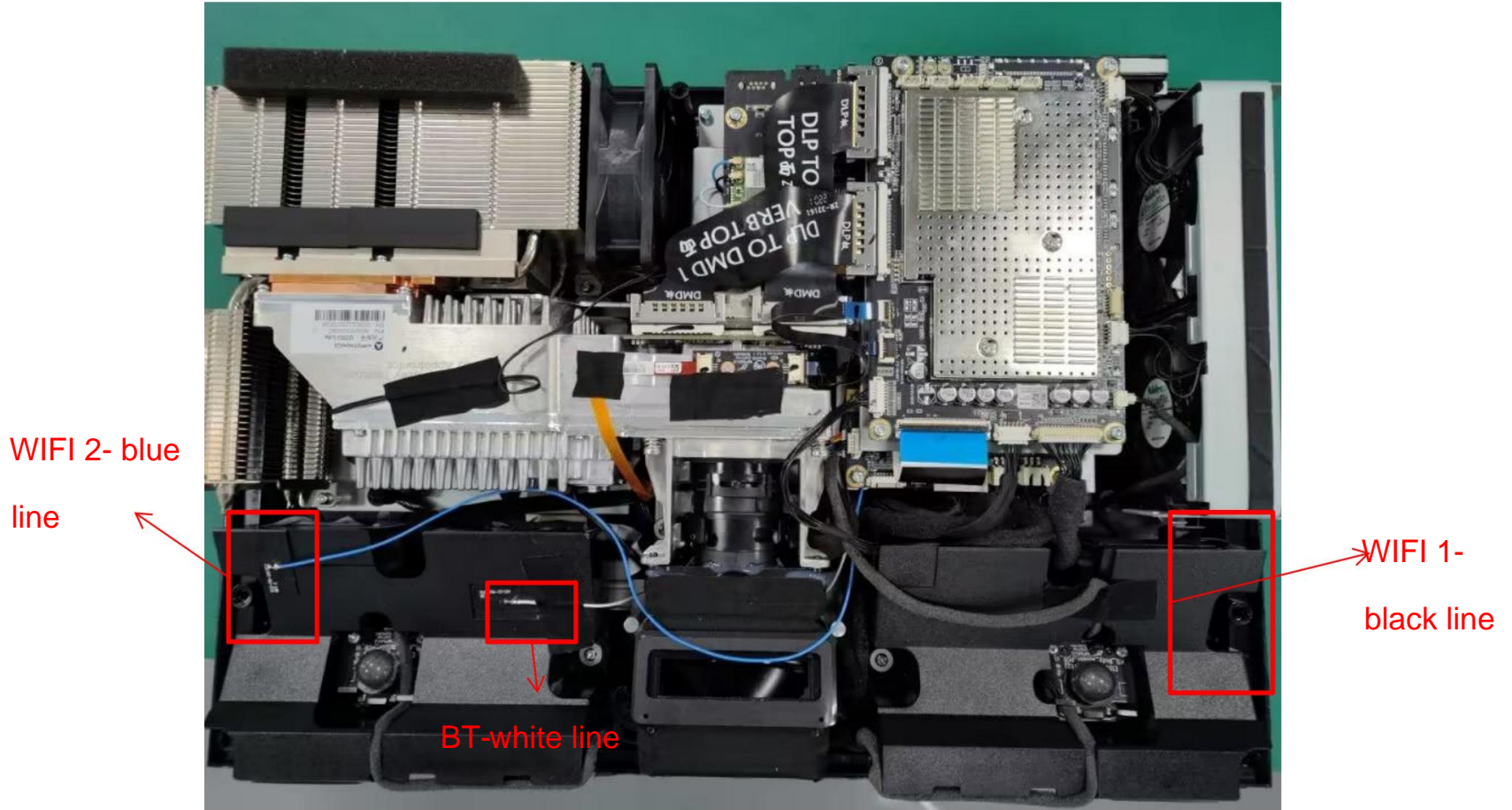
2.1 VSWR/S11

White wire-BT



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

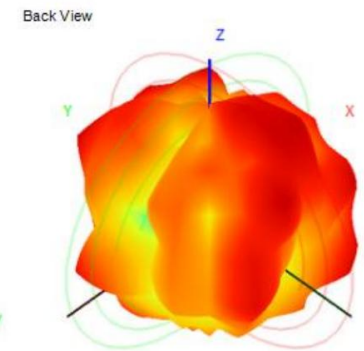
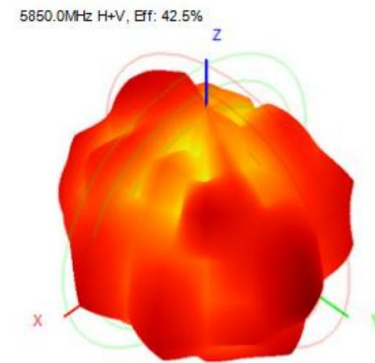
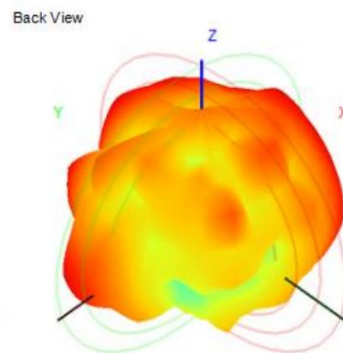
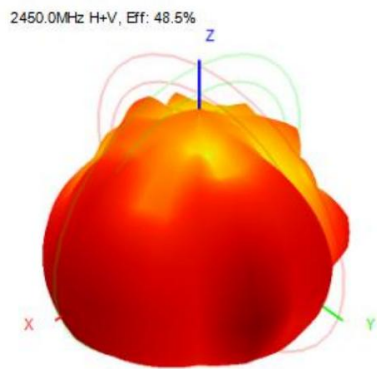
WIFI	CH	Power(54M)	Sensitivity (54M)	WIFI	CH	Power(54M)	Sensitivity (54M)
802.11a	36	11.24	-70.04	802.11g	1	14.09	-71.07
	149	11.19	-72.13		6	13.83	-72.04
	165	11.34	-71.17		11	13.89	-71.08
WIFI	CH	Power(11M)	Sensitivity (11M)	WIFI	CH power(MCS7)	Sensitivity (MCS7)	
802.11b	1	14.13	-82.3	802.11n	1	14.16	-69.09
	6	14.05	-82.71		6	13.57	-68.83
	11	14.08	-82.92		11	13.87	-68.92

2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

Black line-WIFI 1

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)	-3.22	-3.04	-2.90	-2.82	-3.03	-3.14	-3.03	-3.46	-3.60	-3.55	-3.67	-3.99	-3.74	-3.45	-4.20	-3.71
Gain (dBi)	3.32	3.45	3.69	3.89	3.86	3.69	3.64	3.00	2.64	2.76	2.75	3.94	5.15	4.22	2.14	3.30
Efficiency (%)	47.62	49.63	51.30	52.27	49.81	48.53	49.77	45.09	43.61	44.14	42.91	39.92	42.30	45.18	38.05	42.55



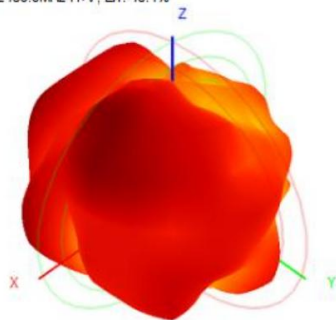
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

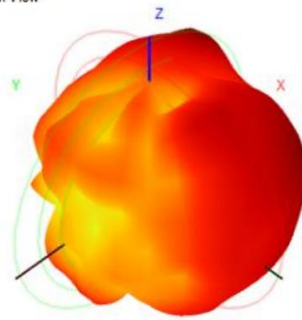
Blue line-WIFI 2

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)	-3.83	-3.65	-3.69	-3.44	-3.70	-3.62	-3.40	-3.51	-3.35	-3.40	-3.45	-3.70	-3.66	-3.44	-3.83	-3.36
Gain (dBi)	2.00	2.19	2.22	2.58	2.29	2.22	2.48	2.49	2.38	2.04	2.08	2.93	2.53	3.80	3.99	5.37
Efficiency (%)	41.44	43.17	42.72	45.31	42.63	43.44	45.68	44.57	46.29	45.68	45.17	42.67	43.01	45.32	41.37	46.13

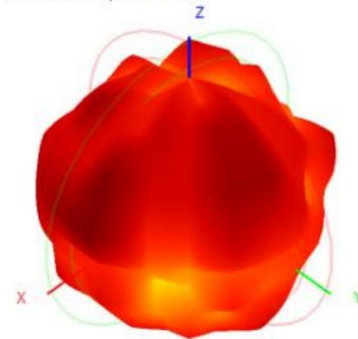
2450.0MHz H+V, Eff: 43.4%



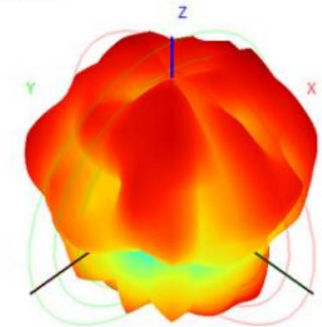
Back View



5850.0MHz H+V, Eff: 42.6%



Back View



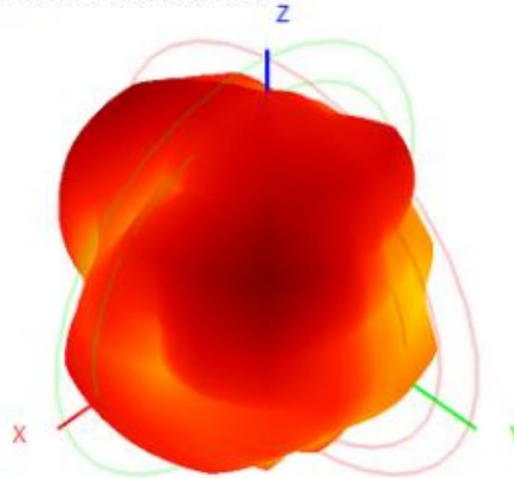
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

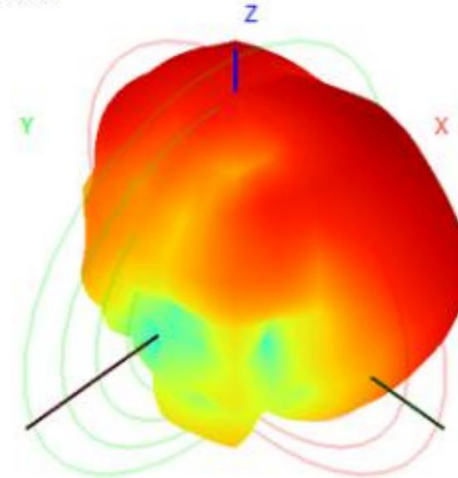
White wire-BT

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.95	-3.79	-3.58	-3.68	-3.74	-3.87	-3.75	-4.10	-4.23	-4.15	-4.17
Gain (dBi)	3.16	3.76	4.21	4.14	4.19	4.21	4.30	4.14	4.42	4.86	5.15
Efficiency (%)	40.26	41.76	43.89	42.85	42.29	41.06	42.13	38.86	37.72	38.43	38.28

2450.0MHz H+V, Eff: 41.1%



Back View



3. Conclusions

THANK YOU!

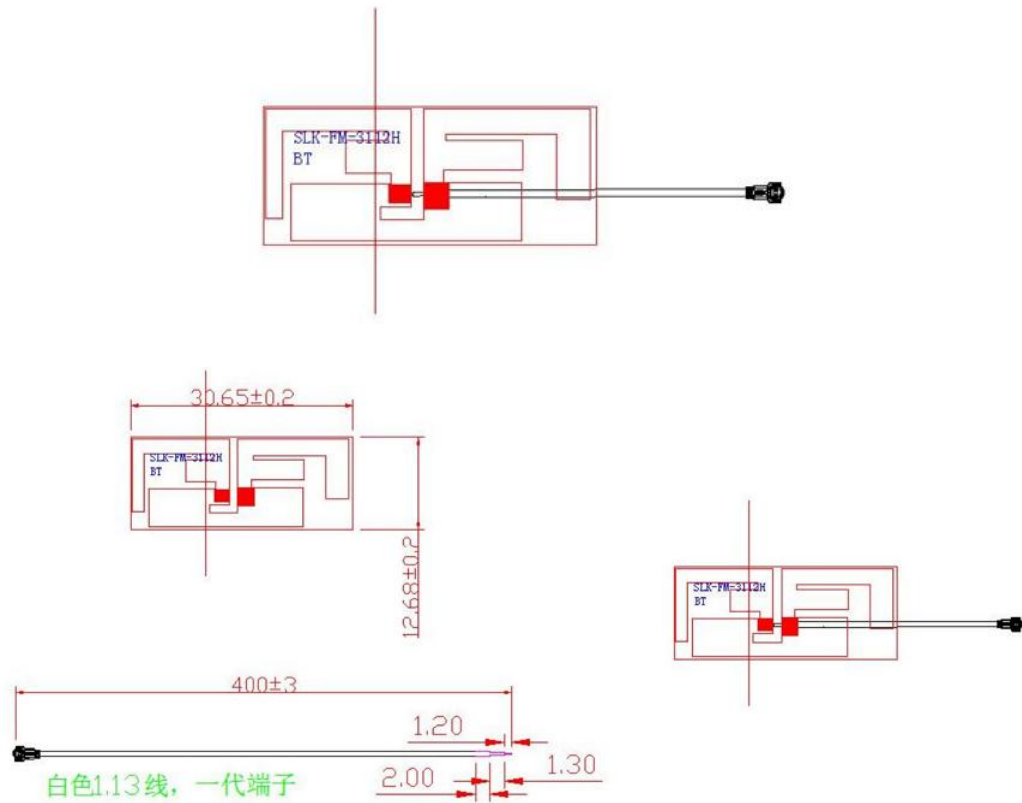
1. Product specifications

BT Antenna (3112H)

Explanation of Product number :

S L K - F M - 3 1 1 2 H - R - 4 0 0 I - W

1 2 3 4 5



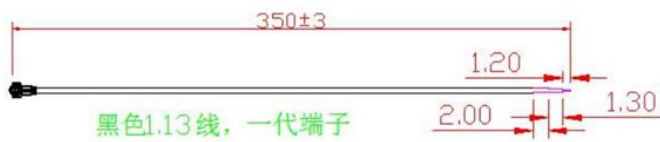
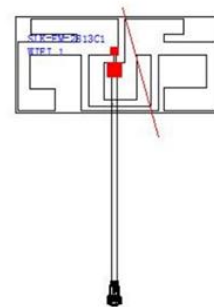
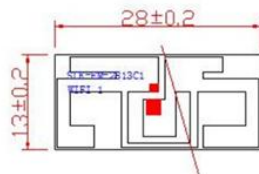
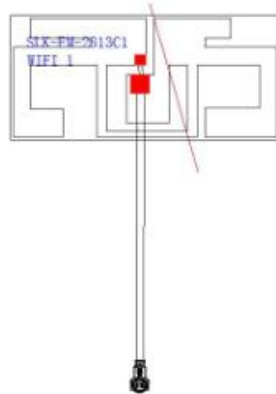
1. Product specifications

WIFI 1 Antenna (2813C1)

Explanation of Product number :

SLK-FM-2813C1-M-350I-B

1 2 3 4 5



1. Product specifications

WiFi 2 Antenna (2813C2)

Explanation of Product number :

SLK-FM-2813C2-M-4901-BL

1 2 3 4 5

