

深圳市亿圣邦科技有限公司

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

Customer: 亿莱顿

Project: SW2193(R137主板)

WIFI 1: SLK-YLD-T3010C-L-260I-B

Product: WIFI Antenna

Report date: 2024.05.18

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Checked by : Eason Huang

Approved by :



Purpose

This report is to measure the performance of SLK for Master Antenna on 亿莱顿. All measure data are showed below.

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1. Product Overview

2. Test Result

2.1 VSWR/S11

2.2 Antenna Parameters

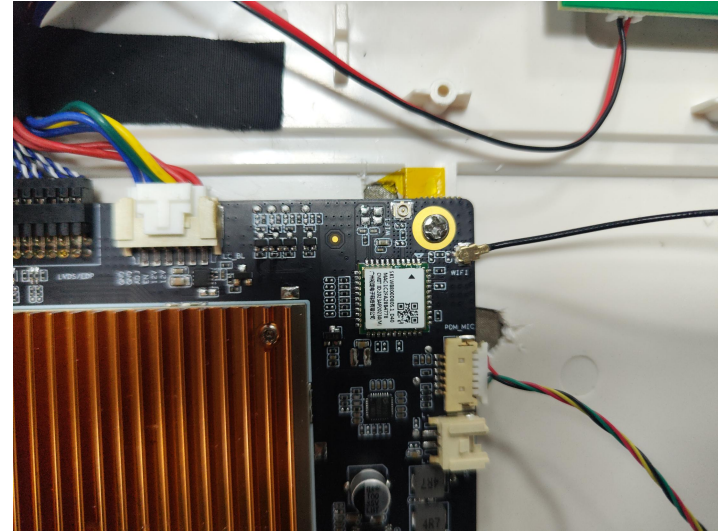
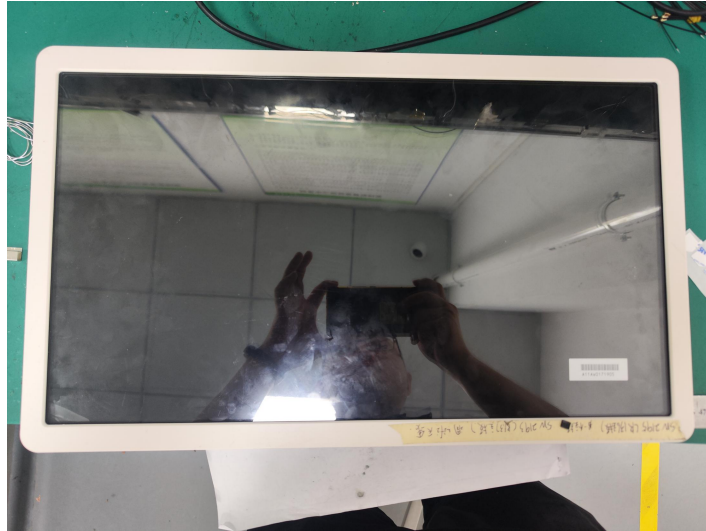
2.3 WIFI Antenna TRP/TIS

2.4 WIFI Antenna Gain/Efficiency/3D DATA

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3. Conclusions

1. Product Overview



2. Test Result

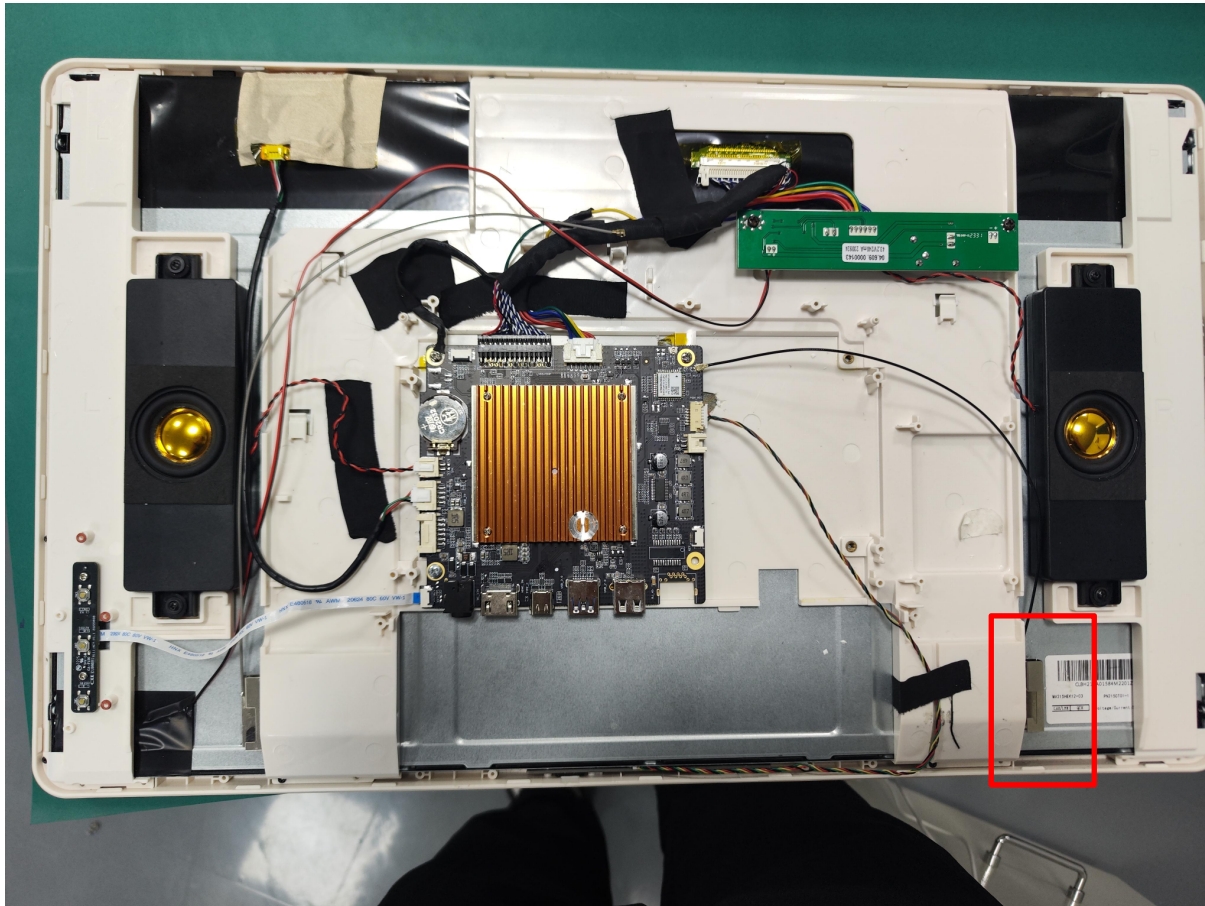
2.1 VSWR/S11

WIFI 1



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)	A级标准 值	WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准 值
802.11a	36	8.75	-71.67	≥10 ≤-63	802.11g	1	9.77	-65.62	≥11 ≤-63
	149	8.81	-71.16			6	10.72	-68.67	
	165	8.45	-71.08			11	11.24	-68.59	
WIFI	CH	功率 (11M)	灵敏度 (11M)	A级标准 值	WIFI	CH	功率 (MCS7)	灵敏度 (MCS7)	A级标准 值
802.11b	1	12.14	-78.98	≥12 ≤-78	802.11n	1	9.57	-63.77	≥10 ≤-63
	6	13.1	-81.76			6	10.69	-66.27	
	11	14.35	-80.84			11	10.99	-65.16	

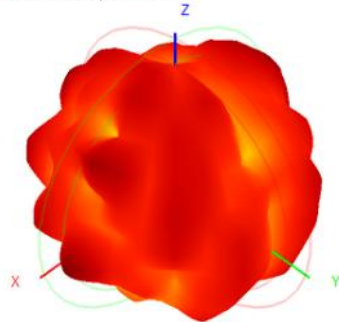
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

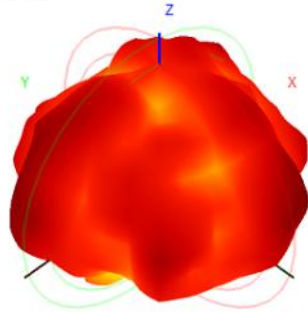
WIFI 1

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)	-3.82	-3.54	-3.39	-3.15	-3.16	-3.25	-3.27	-3.15	-3.16	-3.44	-3.54	-3.69	-3.56	-3.60	-3.69	-3.47
Gain (dBi)	1.16	1.55	1.59	1.61	1.59	1.67	1.77	2.05	2.08	1.57	1.17	2.67	2.31	2.40	2.13	2.65
Efficiency (%)	41.45	44.24	45.80	48.31	48.26	47.26	47.02	48.33	48.28	45.22	44.20	42.74	44.04	43.57	42.70	44.92

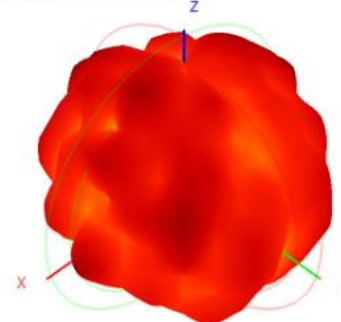
2400.0MHz H+V, Eff: 41.4%



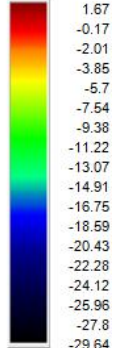
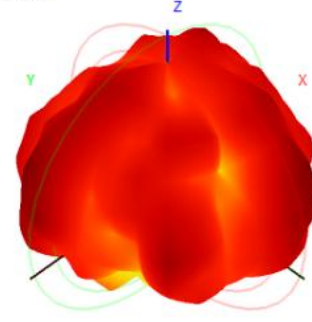
Back View



2450.0MHz H+V, Eff: 47.3%



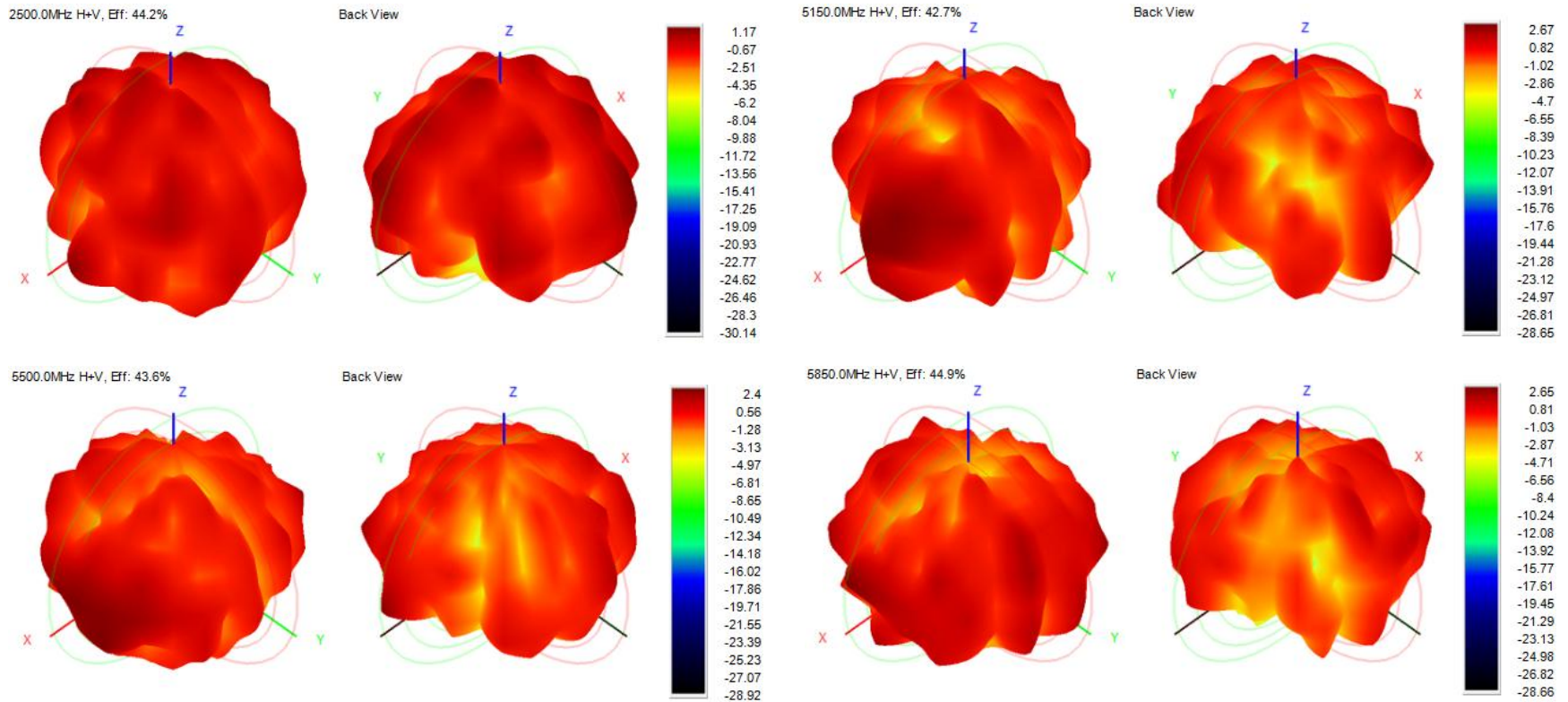
Back View



2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

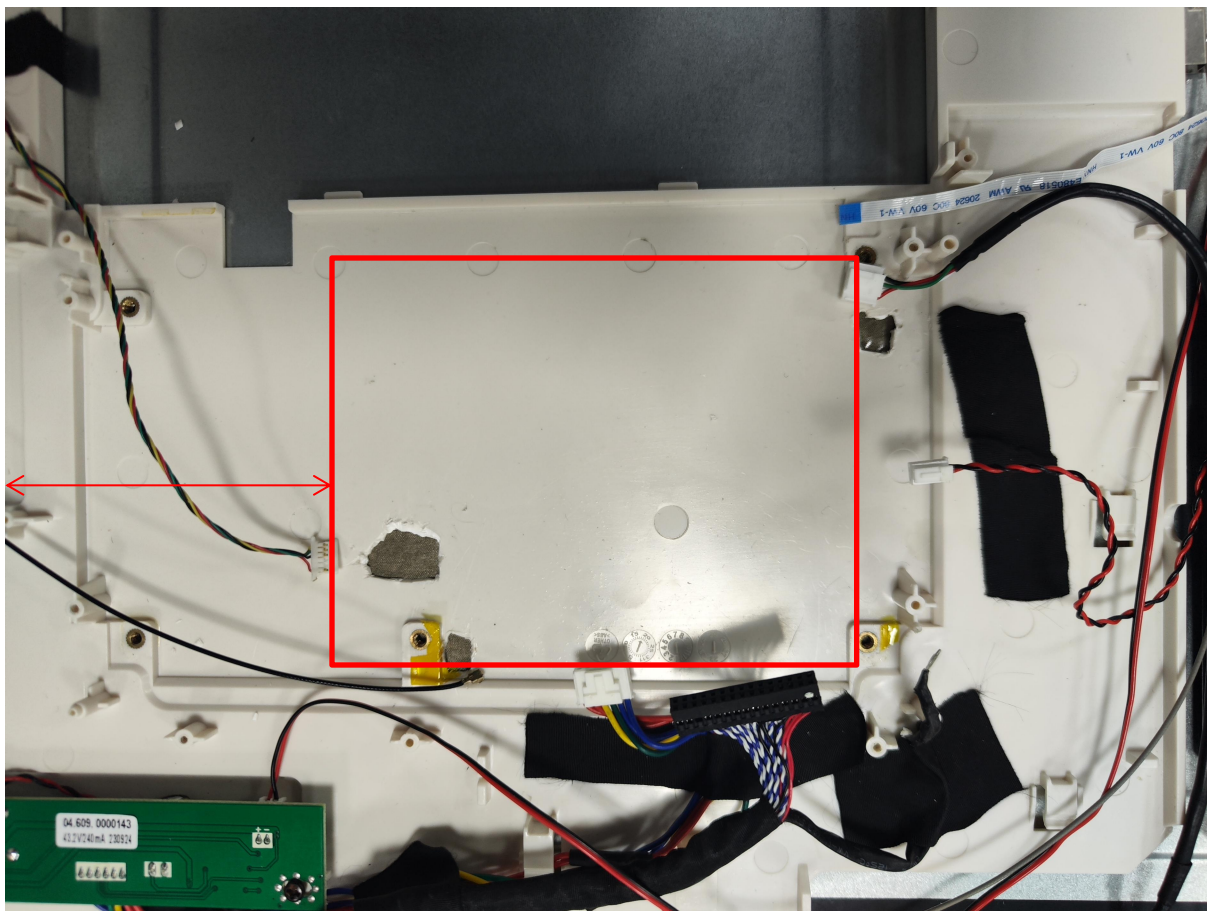
WIFI 1



2. Test Result

2.5 Environmental Treatment

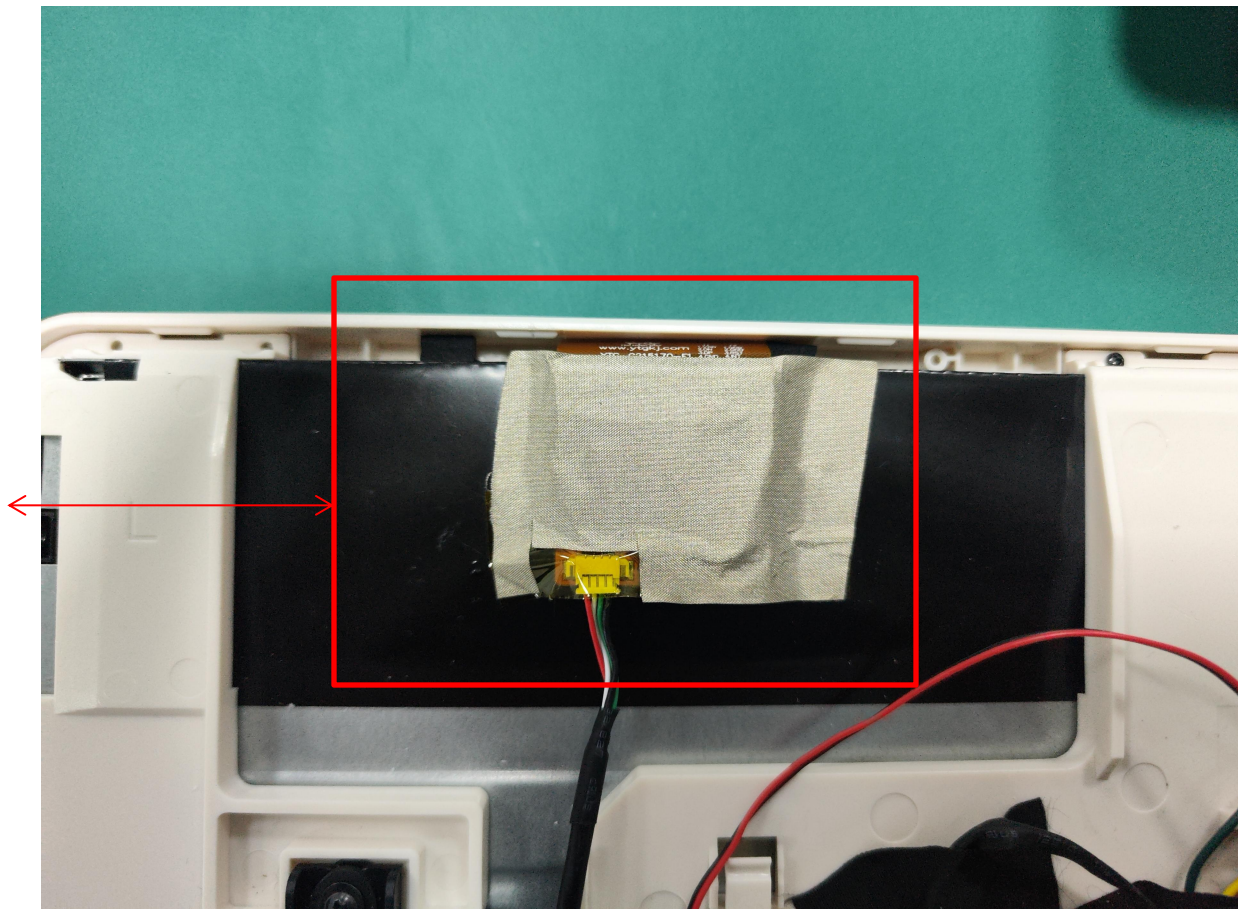
主板塑胶
下方贴导
电布做
EMI屏蔽
处理



2. Test Result

2.5 Environmental Treatment

TP排线
贴导电
布减少
干扰





3. Conclusions

Thank you