

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd.

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Xixiang Street, Bao'an District, Shenzhen, China

Antenna Test Report

Customer: 亿莱顿

Project: WF3289

WIFI : SLK-YLD-3028B-R-350I-B

Product: WIFI Antenna—FPC

Report date: 2024.09.24

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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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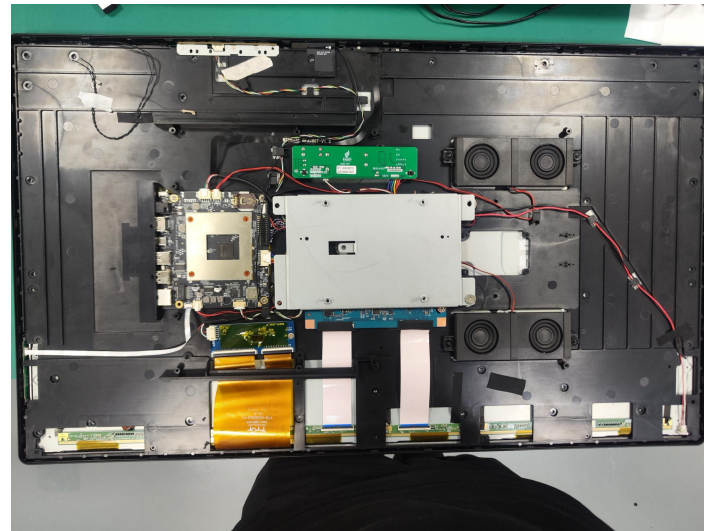
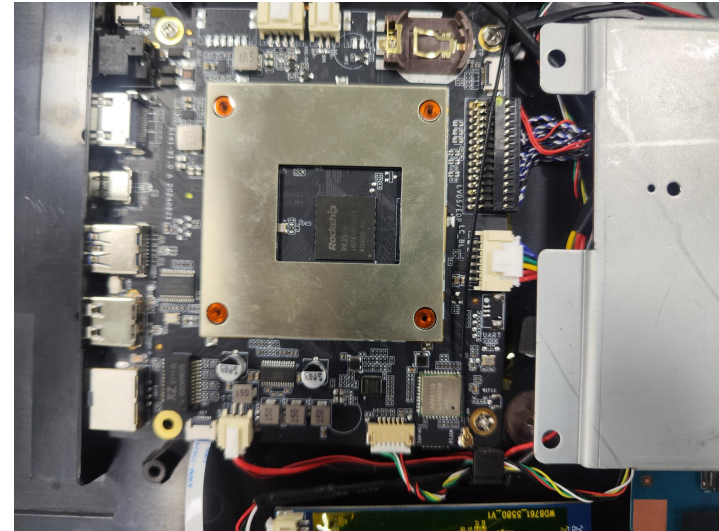
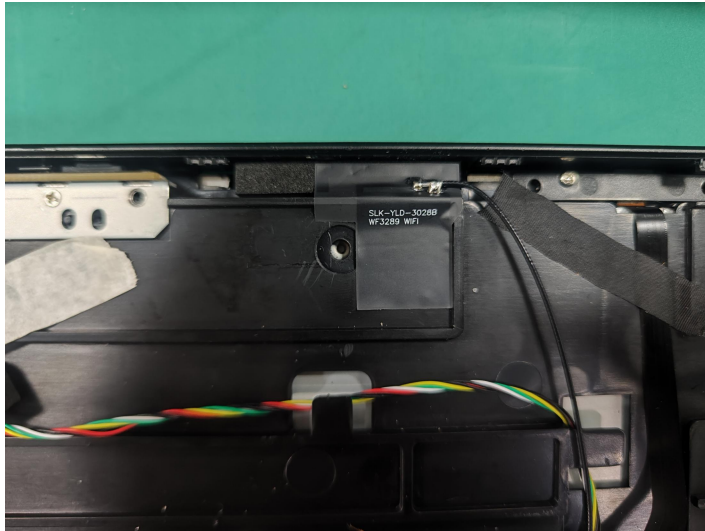
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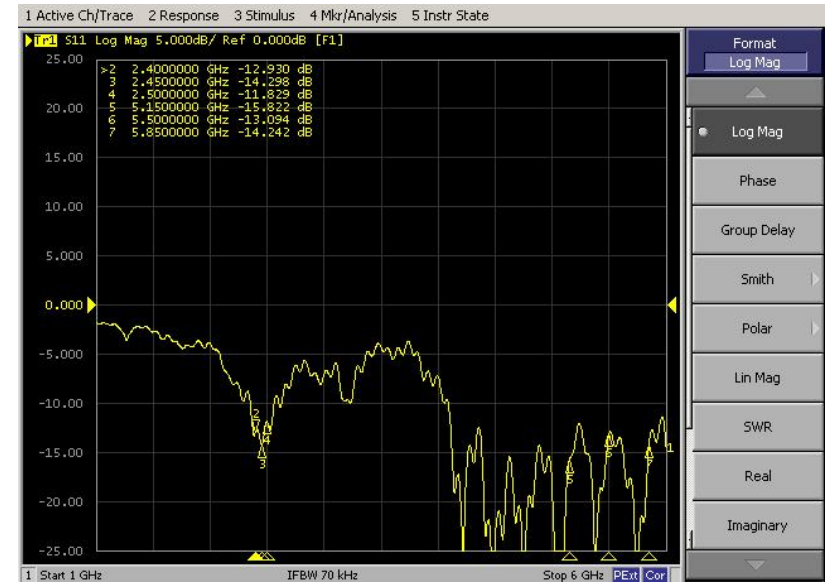
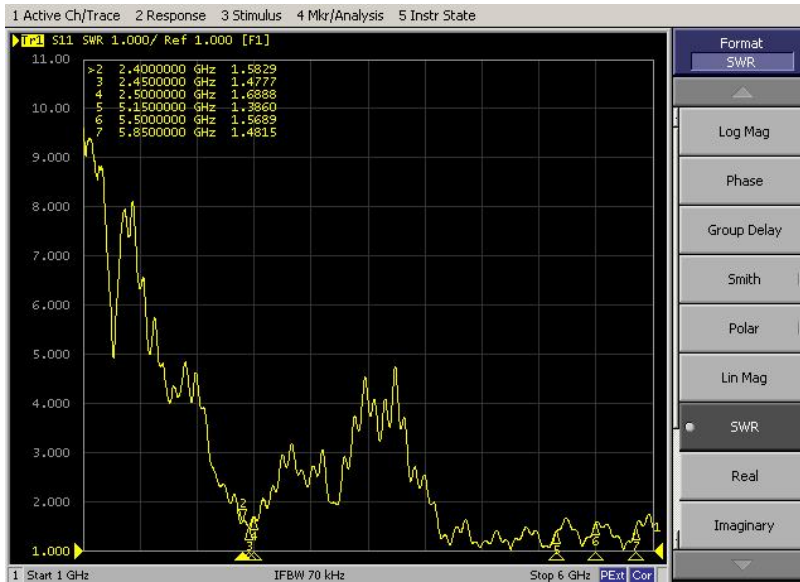
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1. Product Overview



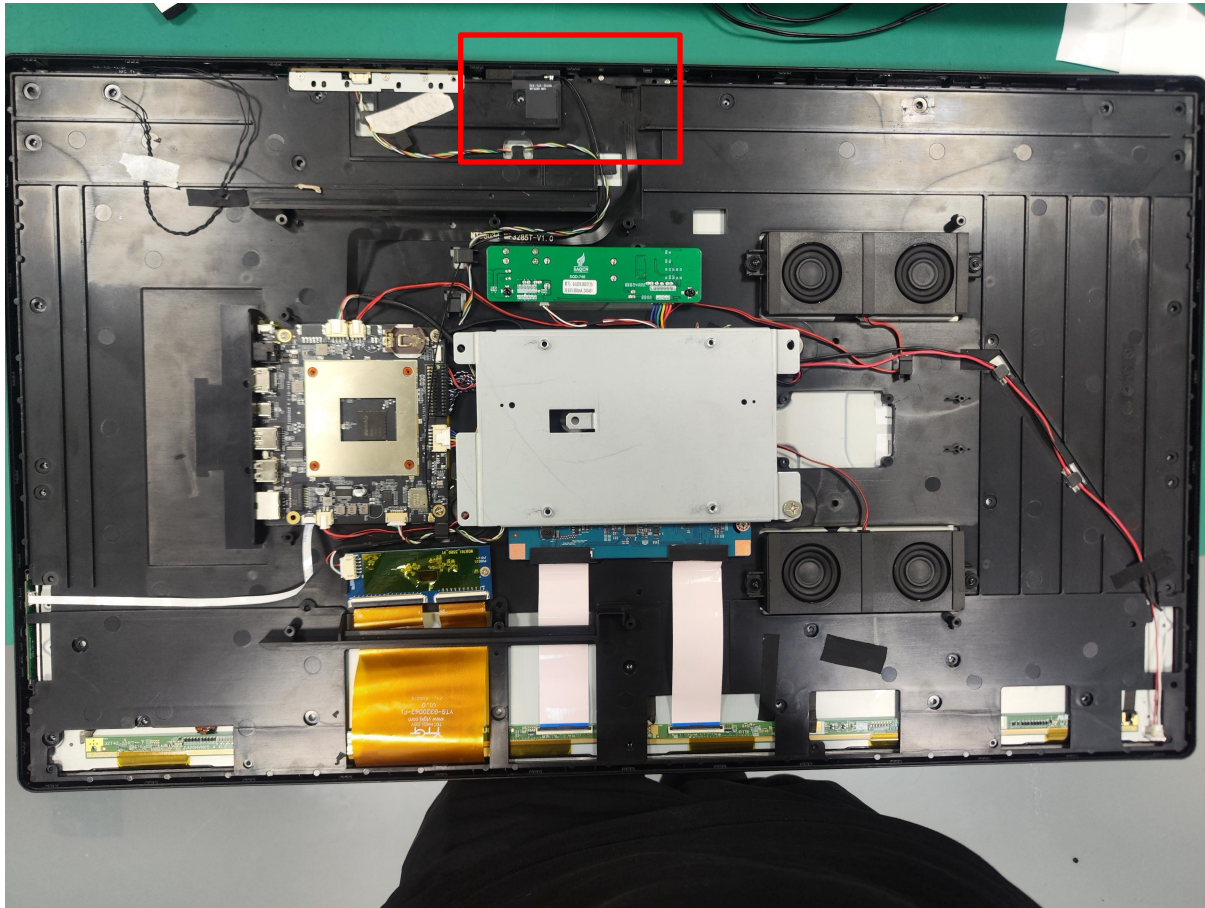
2. Test Result

2.1 VSWR/S11



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

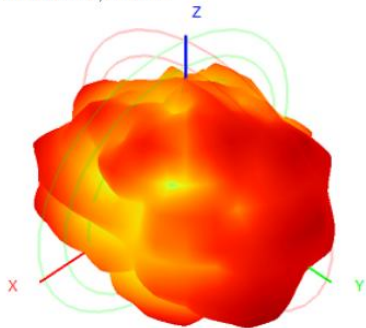
WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准 值	WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准 值
802.11a	36	9.25	-71.4	≥10 ≤-63	802.11g	1	12.78	-67.79	≥11 ≤-63
	149	9.57	-72.03			6	13.15	-69.1	
	165	9.15	-71.86			11	12.56	-67.96	
WIFI	CH	功率 (11M)	灵敏度 (11M)	A级标准 值	WIFI	CH	功率 (MCS7)	灵敏度 (MCS7)	A级标准 值
802.11b	1	13.19	-79.1	≥12 ≤-78	802.11n	1	12.03	-65.33	≥10 ≤-63
	6	13.79	-79.92			6	12.71	-66.95	
	11	13.2	-81.1			11	12.7	-65.5	

2. Test Result

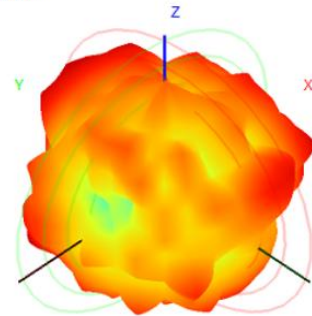
2.4 WIFI Antenna Gain/Efficiency/3D DATA

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	6010.0	6550.0	6890.0	7200.0
Efficiency (dBi)	-3.34	-3.05	-2.98	-2.92	-2.88	-2.98	-2.99	-2.95	-2.92	-2.96	-2.89	-3.34	-3.39	-3.58	-3.28	-3.40	-4.09	-4.51	-4.68	-5.01
Gain (dBi)	1.57	2.16	2.24	2.17	2.23	2.24	2.31	2.33	2.29	2.38	2.73	1.44	2.26	2.35	2.59	2.56	1.83	1.87	1.35	1.04
Efficiency (%)	46.34	49.48	50.25	50.99	51.50	50.25	50.22	50.69	50.96	50.56	51.39	46.27	45.74	43.77	46.95	45.68	38.93	35.32	34.04	31.51

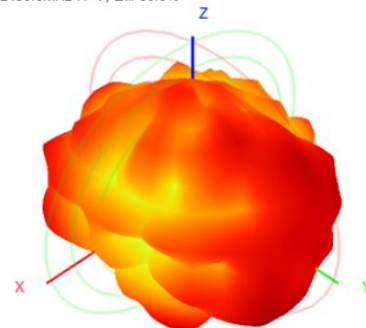
2400.0MHz H+V, Eff. 46.3%



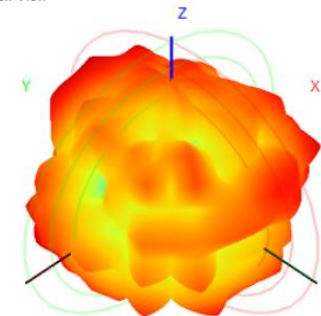
Back View



2450.0MHz H+V, Eff. 50.3%



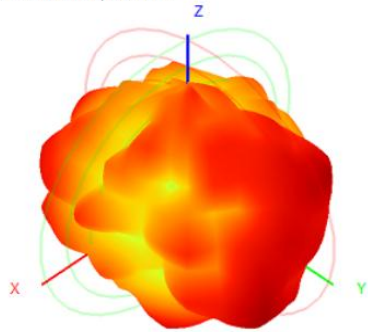
Back View



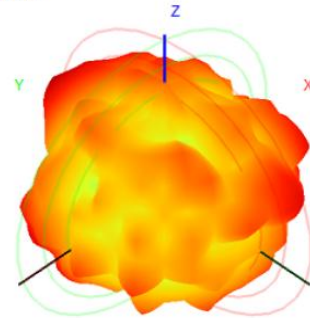
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

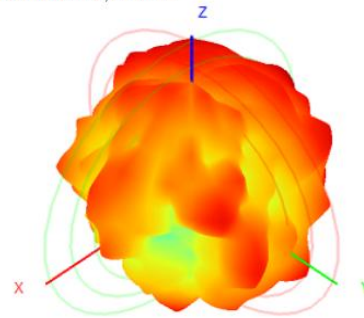
2500.0MHz H+V, Eff. 51.4%



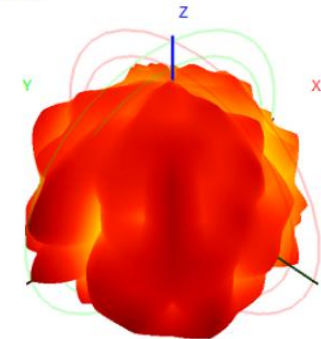
Back View



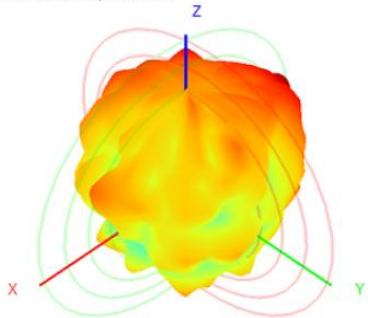
5150.0MHz H+V, Eff. 46.3%



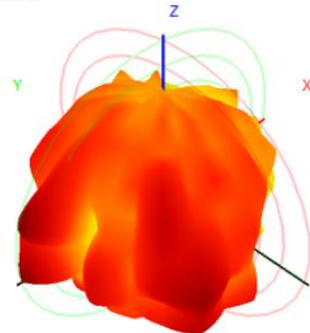
Back View



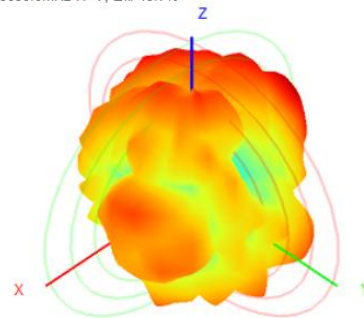
5500.0MHz H+V, Eff. 43.8%



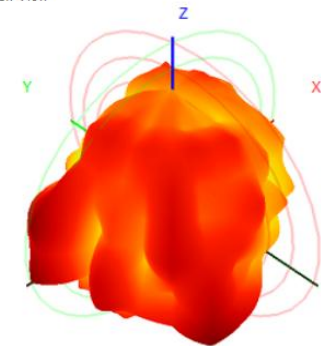
Back View



5850.0MHz H+V, Eff. 45.7%



Back View

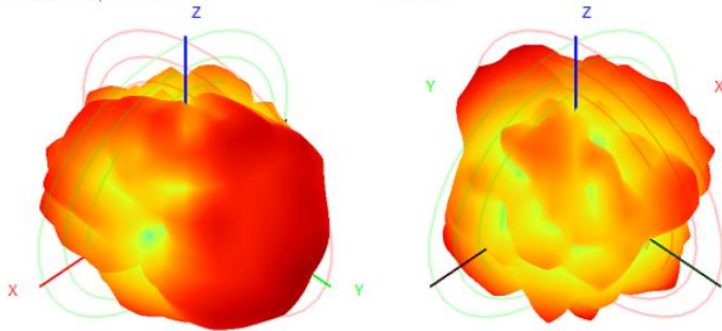


2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

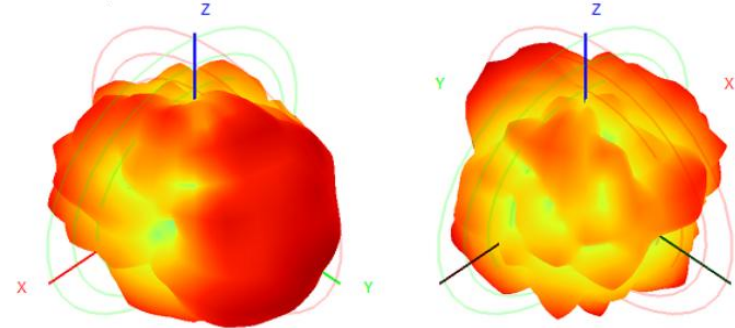
6010.0MHz H+V, Eff. 38.9%

Back View



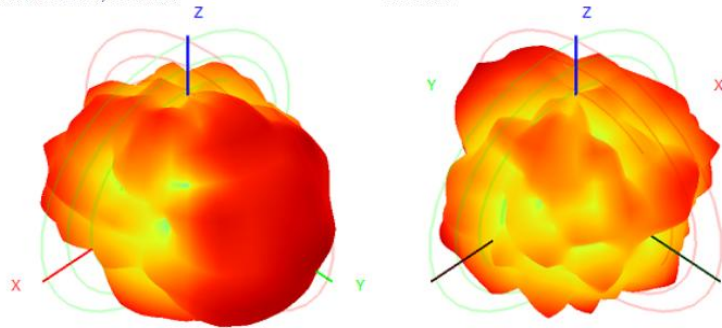
6550.0MHz H+V, Eff. 35.3%

Back View



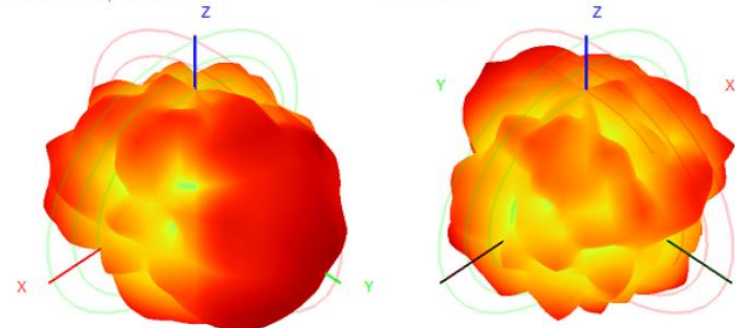
6890.0MHz H+V, Eff. 34.0%

Back View



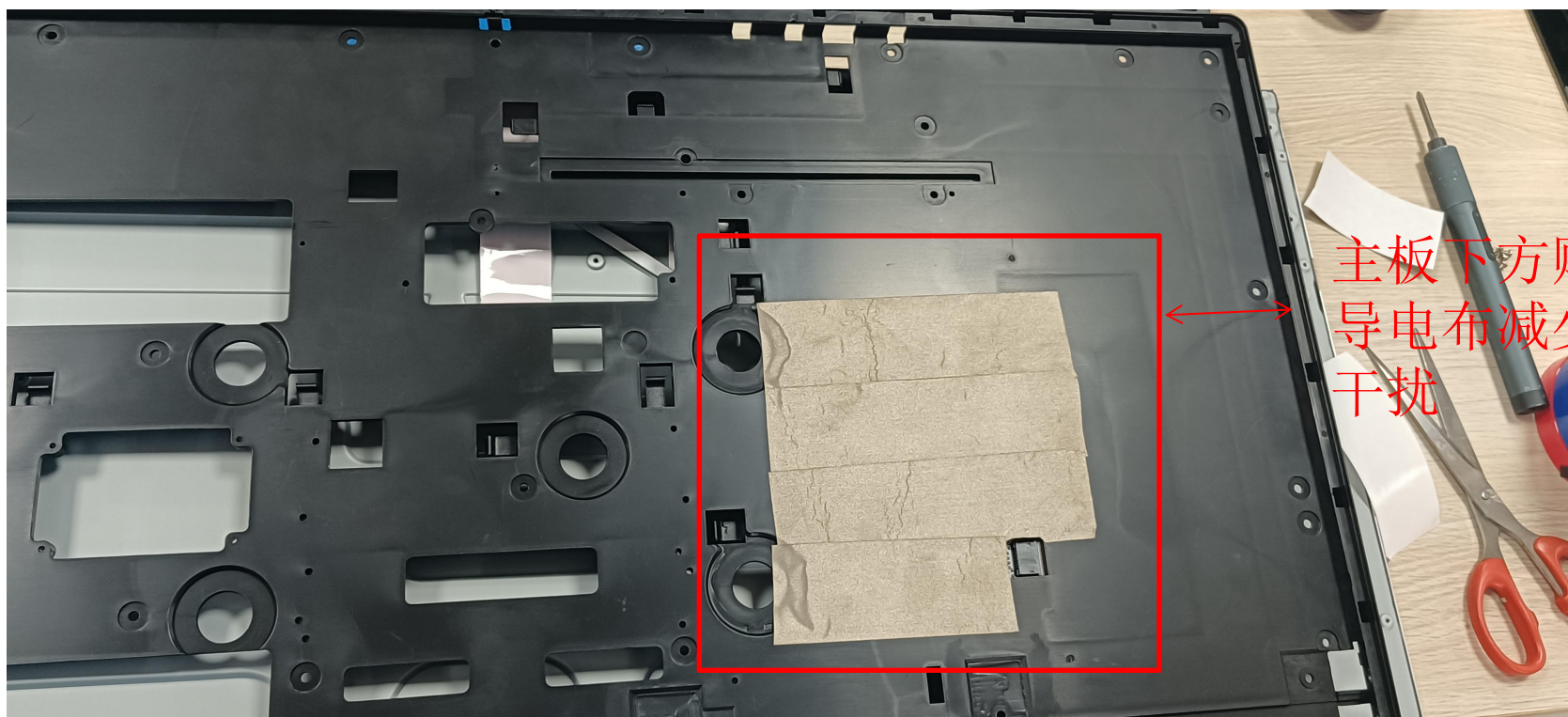
7200.0MHz H+V, Eff. 31.5%

Back View



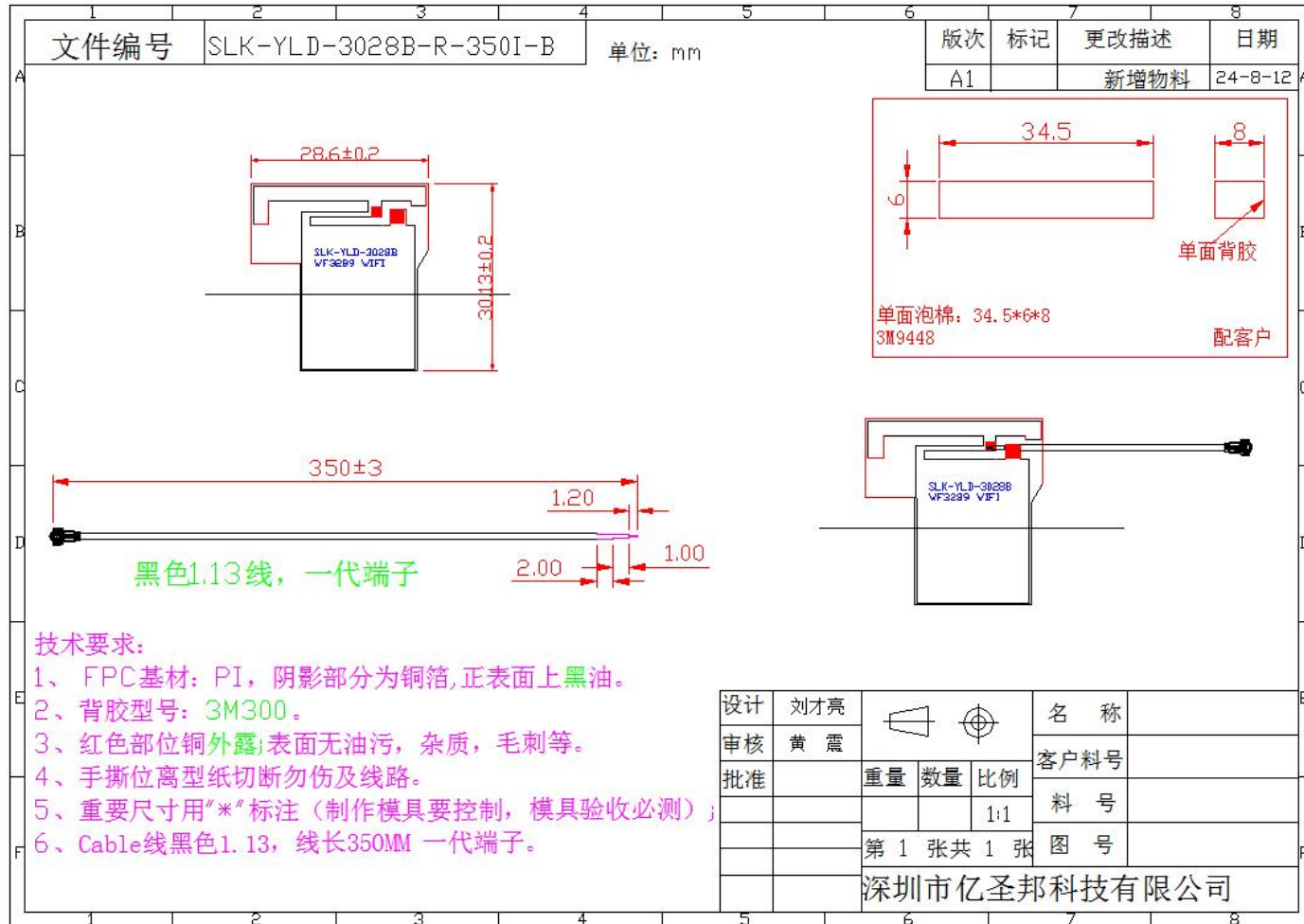
2. Test Result

2.5 Environmental Treatment



2. Test Result

2.6 Antenna size



3. Conclusions

Thank you