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

Customer: Ke Jinming

Product: PCB Antenna
Report date: 2025.04.21

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Checked by : Eason Huang
Approved by :



Purpose

This report aims to evaluate the performance of the SLK for the Master Antenna on the Kojinming platform. All measurement data are presented below.

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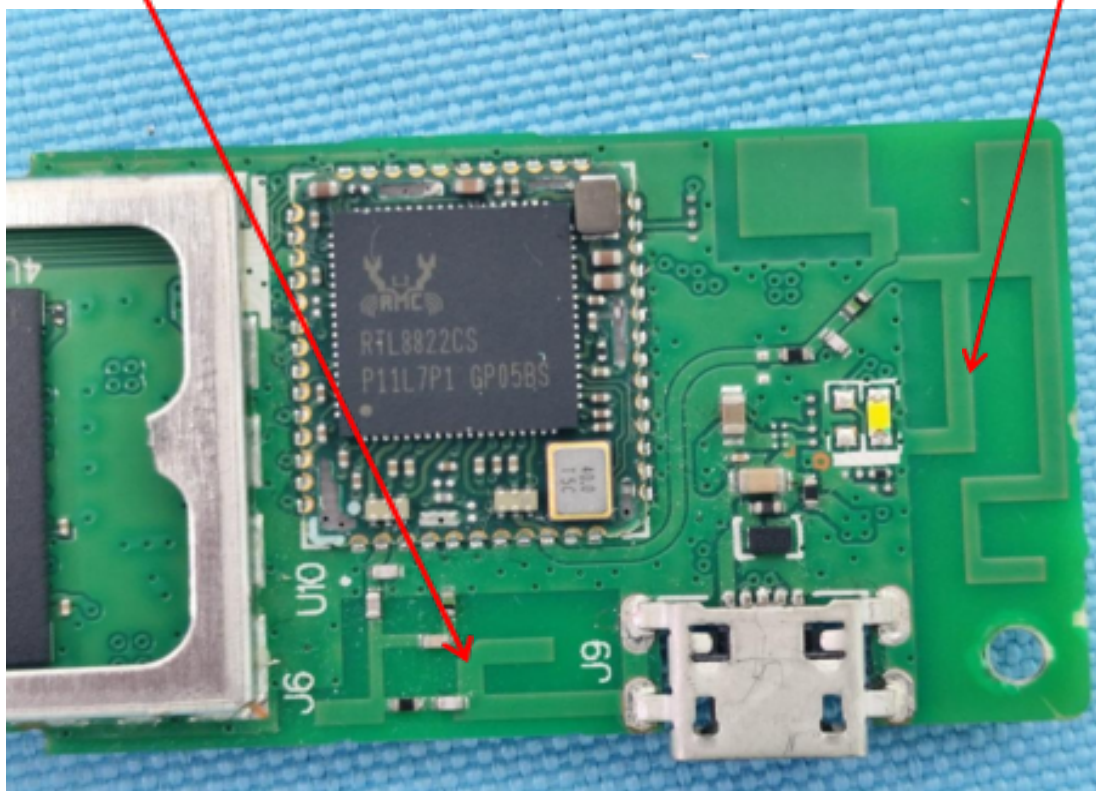
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1. Product Overview

BT&WLAN ANT 1

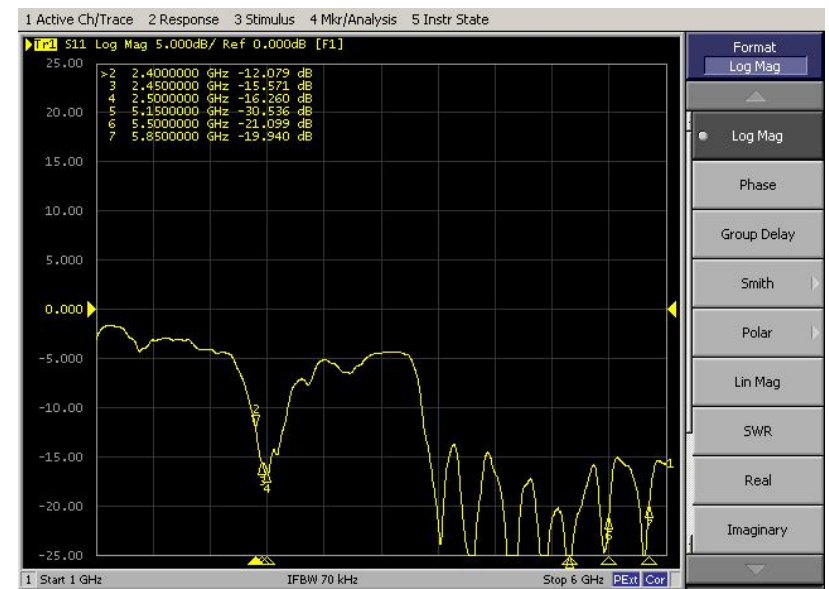
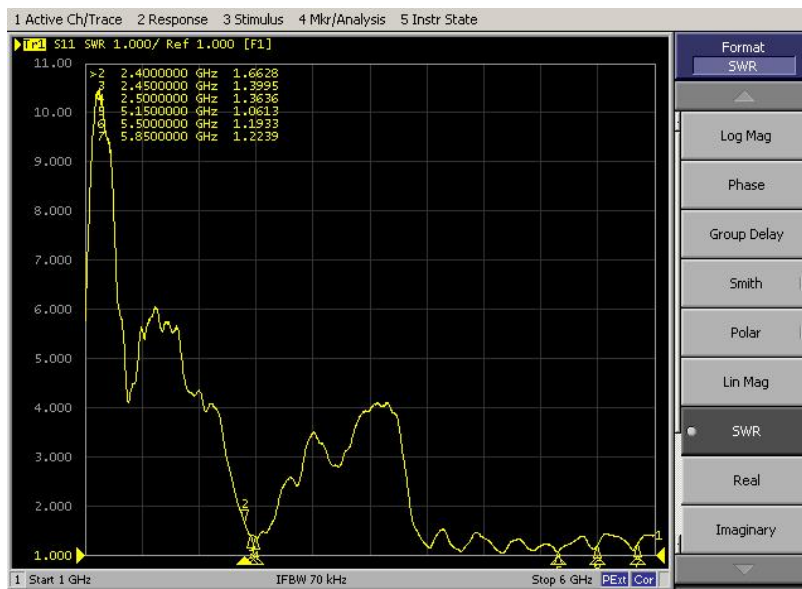
WLAN ANT 2



2. Test Result

2.1 VSWR/S11

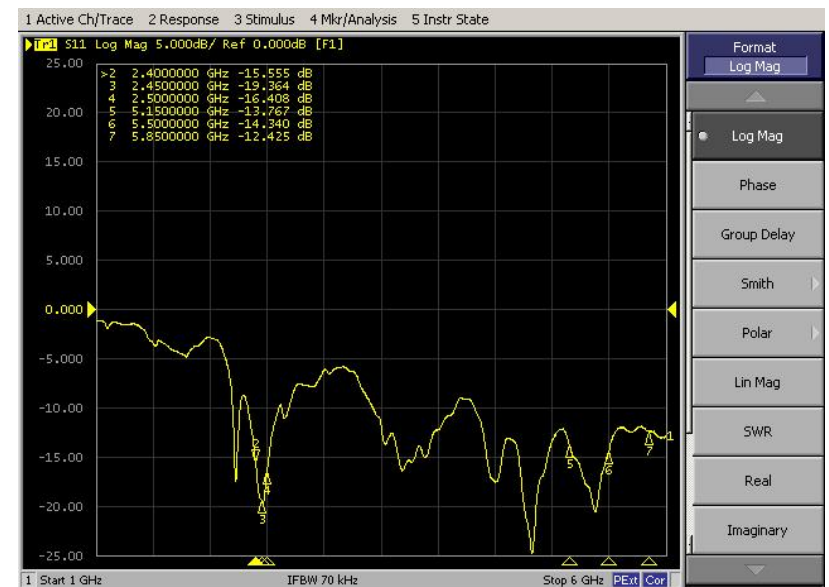
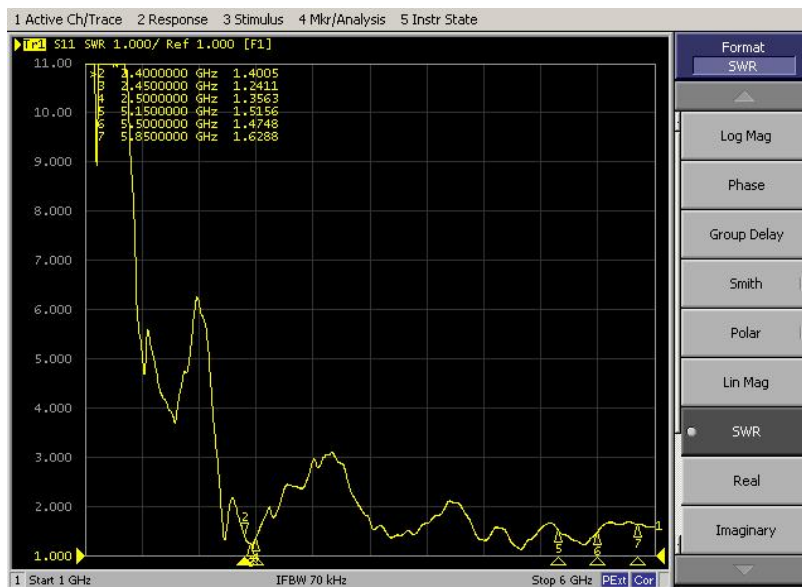
WIFI 1



2. Test Result

2.1 VSWR/S11

WIFI 2



2. Test Result

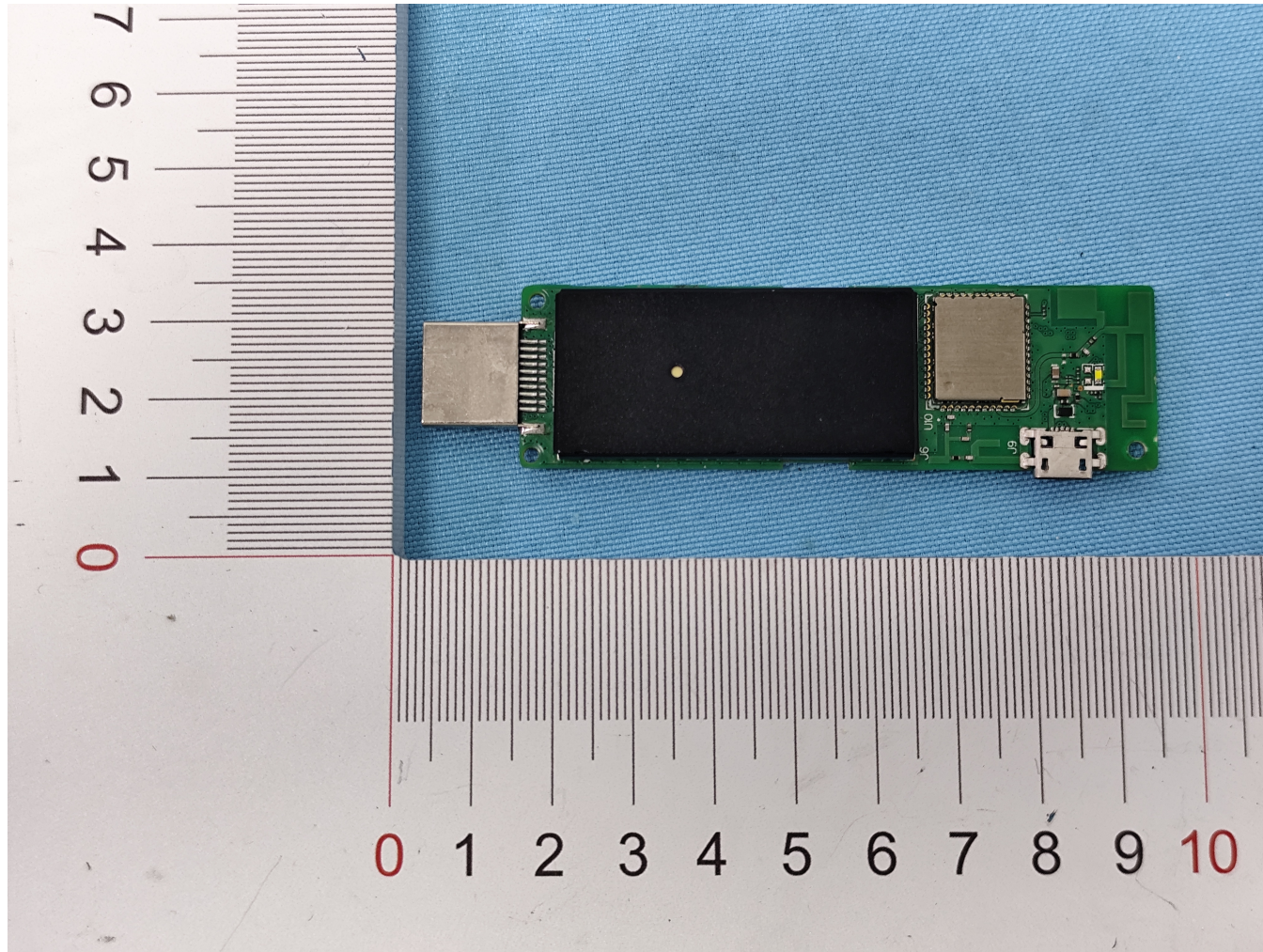
2.1 VSWR/S11

BT



2. Test Result

2.2 Antenna Size



2. Test Result

2.3 WIFI Antenna TRP/TIS

WIFI	CH	Power (54M)	Sensitivity (54M)	WIFI	CH	Power (54M)	Sensitivity (54M)
802.11a	36	6.38	-71.56	802.11g	1	3.43	-58.82
	149	5.34	-71.96		6	3.83	-58.6
	165	5.36	-71.66		11	4.06	-58.63
WIFI	CH	Power (11M)	Sensitivity (11M)	WIFI	CH	Power (MCS7)	Sensitivity (MCS7)
802.11b	1	8.25	-70.44	802.11n	1	3.45	-55.5
	6	8.68	-70.68		6	3.83	-55.08
	11	9.26	-70.9		11	4.05	-55.87

2. Test Result

2.3 WIFI Antenna TRP/TIS

External Antenna Testing

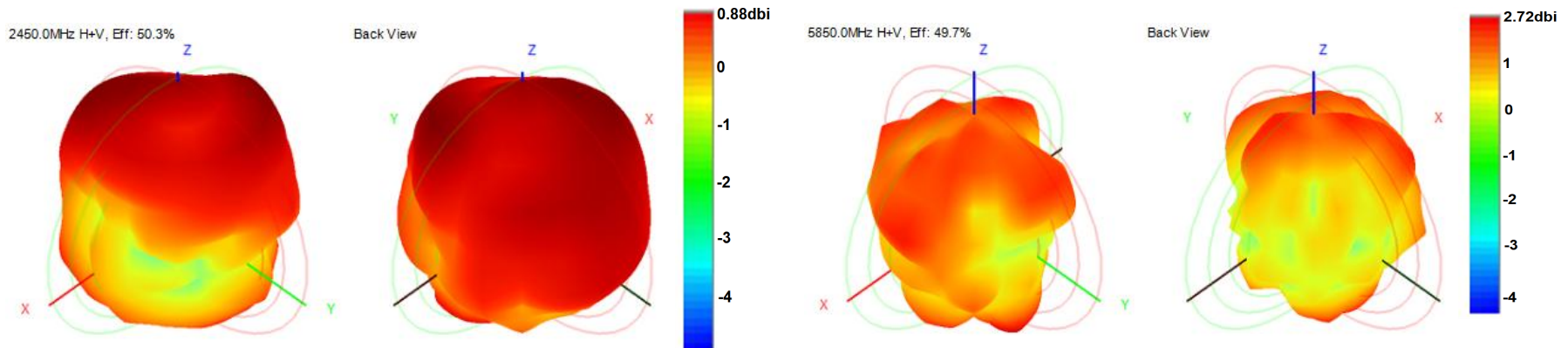
WIFI	CH	Power (11M)	Sensitivity (11M)	WIFI	CH	Power (54M)	Sensitivity (54M)
802.11b	1	9.48	-74.39	802.11a	36	7.59	-73.75
	6	9.56	-74.61		149	6.4	-73.85
	11	10.15	-74.4		165	6.48	-73.14

2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

BT&WIFI 1

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.00	-2.98	-2.78	-2.84	-2.89	-2.99	-2.76	-2.99	-2.95	-2.87	-2.81	-3.98	-3.71	-3.48	-3.50	-3.04
Gain (dBi)	2.24	1.95	1.87	1.60	1.28	0.88	0.90	1.19	1.59	1.90	2.18	2.03	2.26	2.24	2.19	2.72
Efficiency (%)	50.11	50.32	52.73	52.01	51.36	50.26	53.01	50.23	50.67	51.67	52.32	40.00	42.56	44.86	44.66	49.71



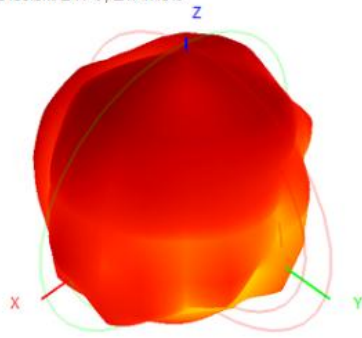
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

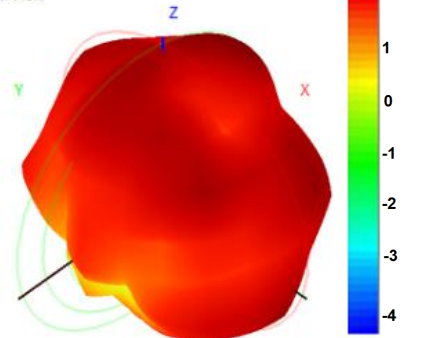
WIFI 2

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.48	-3.45	-3.06	-3.18	-3.08	-3.22	-3.00	-3.38	-3.48	-3.29	-3.27	-3.81	-3.73	-3.69	-3.83	-3.49
Gain (dBi)	0.77	0.70	1.06	1.07	1.46	1.52	1.84	1.51	1.08	1.38	1.75	1.84	2.07	2.21	2.26	2.52
Efficiency (%)	44.79	45.09	49.35	48.07	49.17	47.61	50.11	45.89	44.86	46.85	47.05	41.51	42.29	42.66	41.31	44.69

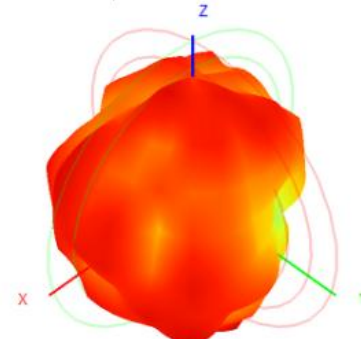
2450.0MHz H+V, Eff: 47.6%



Back View



5850.0MHz H+V, Eff: 44.7%



Back View

