



Shenzhen Yishengbang Technology Co., Ltd

Antenna Test Report

Customer: **Rieger**

Project: K380

WIFI 0: SLK-KJM-2813B6-M-100I-B-1.13

WIFI 1: SLK-KJM-2813B7-M-150I-G-1.13

BT: SLK-KJM-2813B8-M-140I-W-1.13

Product: WIFI Antenna—FPC

Report date: 2025.03.12

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Purpose

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

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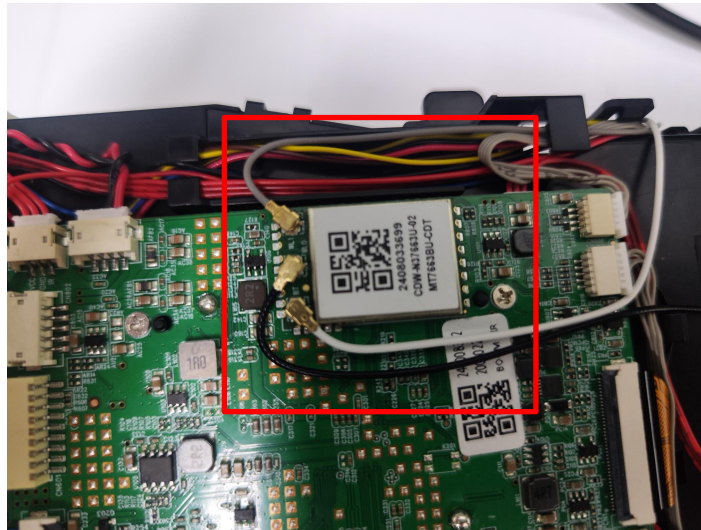
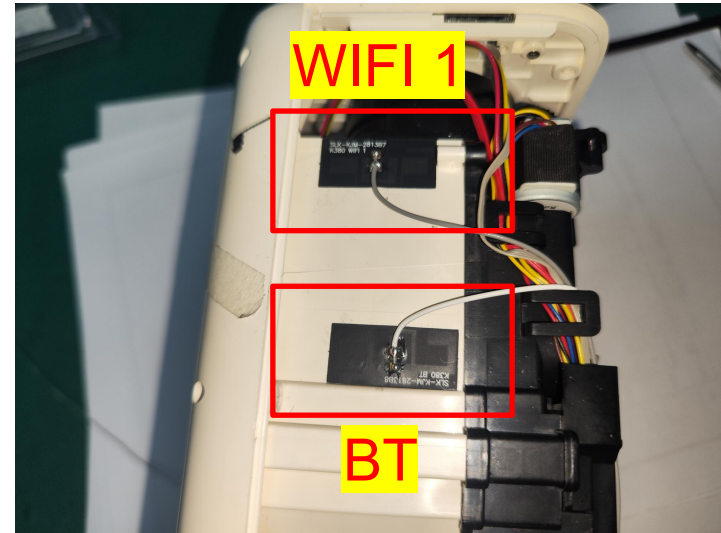
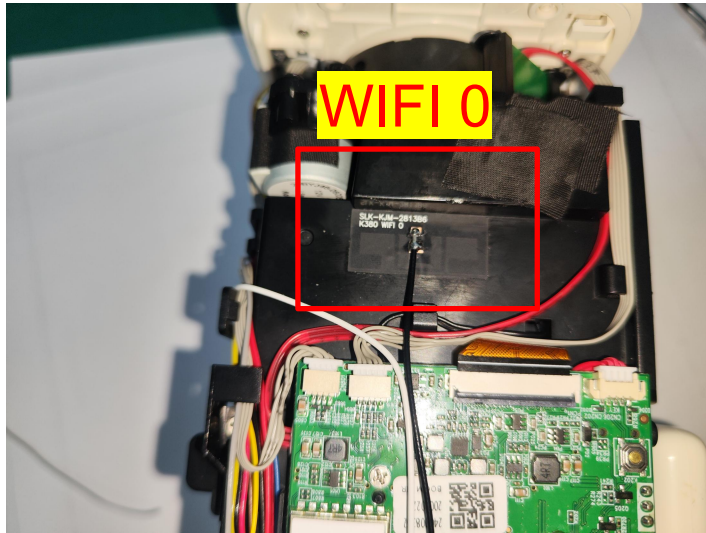
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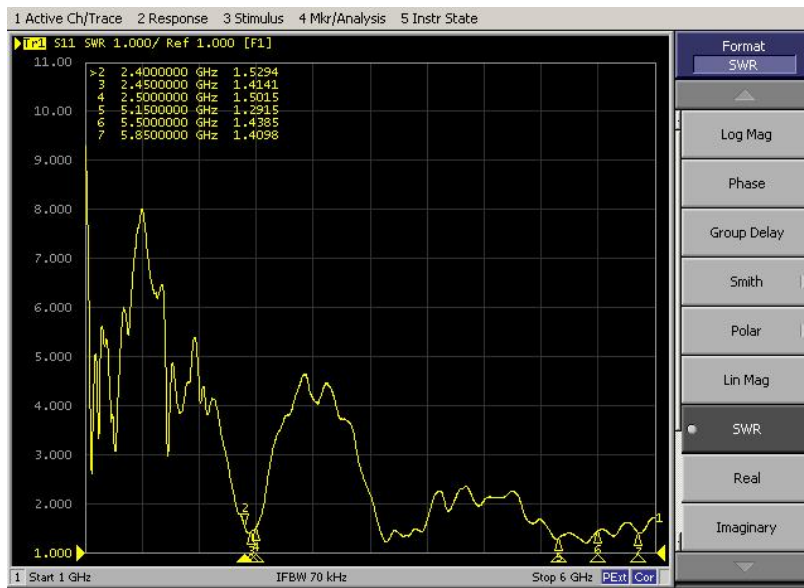
1. Product Overview



2. Test Result

2.1 VSWR/S11

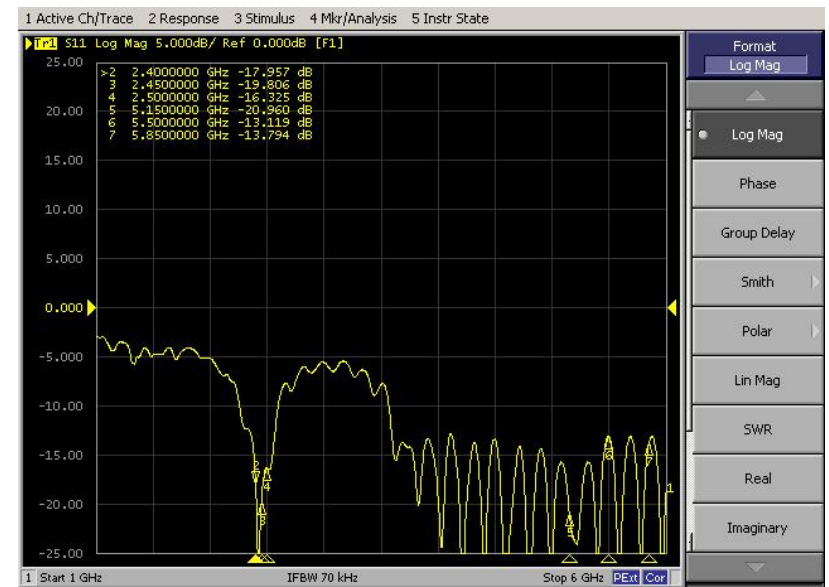
WIFI 0



2. Test Result

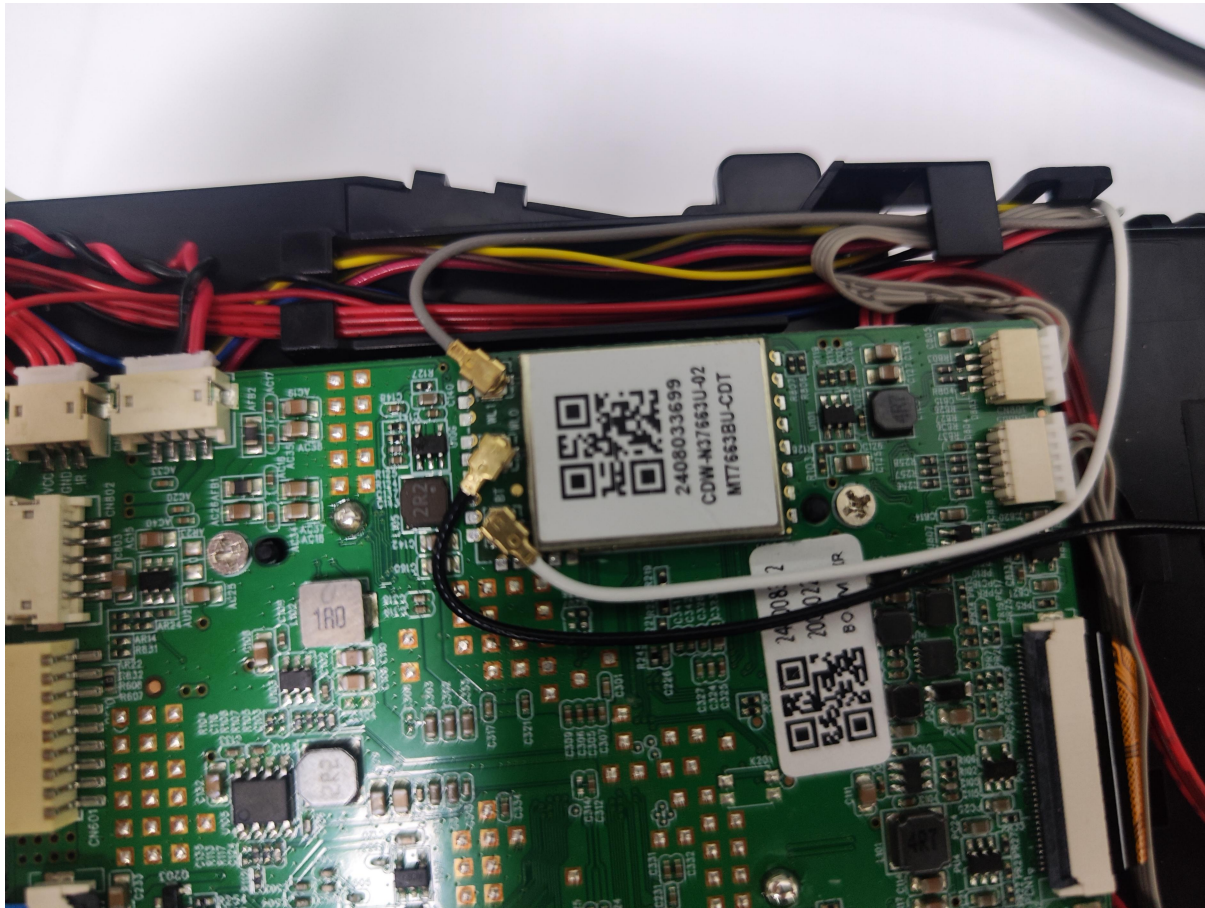
2.1 VSWR/S11

WIFI 1



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Conduction

WIFI	CH	Power(54M)	Sensitivity (54M)	WIFI	CH	Power(54M)	Sensitivity (54M)
802.11a	36	8.1	/	802.11g	1	4.3	/
	149	6.1	/		6	4.5	/
	165	6	/		11	4.5	/
WIFI	CH	Power(11M)	Sensitivity (11M)	WIFI	CH	Power(MCS7)	Sensitivity (MCS7)
802.11b	1	10	/	802.11n	1	4.2	/
	6	10.1	/		6	4.5	/
	11	10	/		11	4.5	/

2. Test Result

2.4 WIFI Antenna TRP/TIS

WIFI	CH	Power(54M)	Sensitivity (54M)	WIFI	CH	Power(54M)	Sensitivity (54M)
802.11a	36	8.51	-71.48	802.11g	1	4.82	-65.71
	149	5.51	-71.81		6	5.02	-66.3
	165	5.24	-72.08		11	5.44	-66.41
WIFI	CH	Power(11M)	Sensitivity (11M)	WIFI	CH	Power(MCS7)	Sensitivity (MCS7)
802.11b	1	9.38	-78.19	802.11n	1	4.94	-60.19
	6	10.23	-78.16		6	5.09	-61.76
	11	9.51	-78.03		11	5.49	-61.25

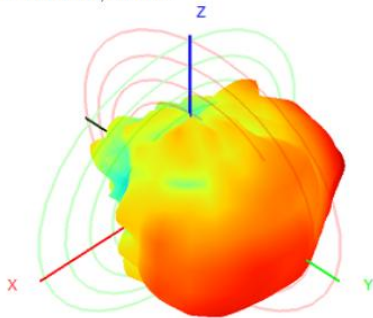
2. Test Result

2.5 WIFI Antenna Gain/Efficiency/3D DATA

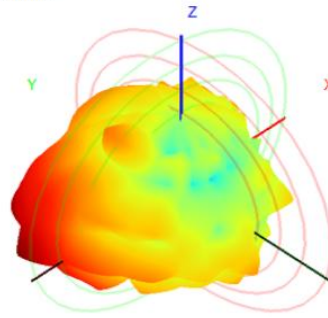
WIFI 0

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)	-2.82	-2.77	-2.89	-2.75	-2.76	-2.86	-2.99	-2.91	-2.88	-2.89	-2.84	-2.88	-2.78	-2.69	-2.61	-2.84
Gain (dBi)	2.61	2.63	2.52	2.69	2.77	2.77	2.63	2.62	2.67	2.68	2.81	2.84	2.17	2.26	2.40	2.04
Efficiency (%)	52.14	52.79	51.35	53.08	52.85	51.71	50.19	51.12	51.42	51.32	51.92	51.44	52.71	53.71	54.82	51.88

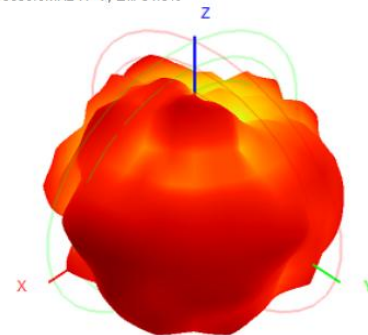
2450.0MHz H+V, Eff 51.7%



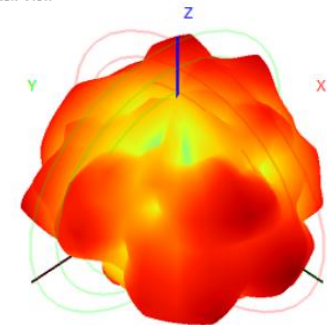
Back View



5850.0MHz H+V, Eff 51.9%



Back View



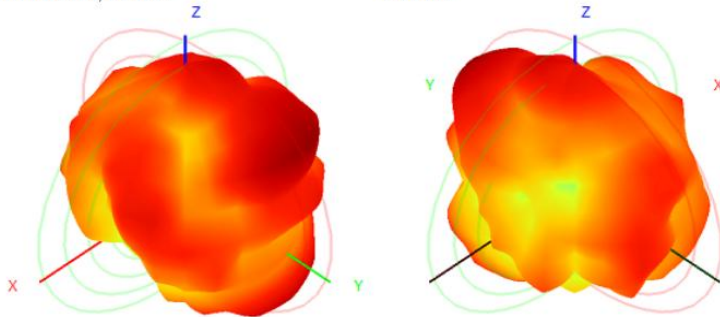
2. Test Result

2.5 WIFI Antenna Gain/Efficiency/3D DATA

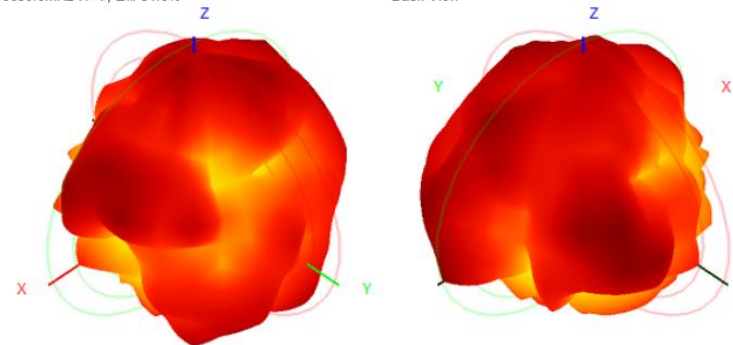
WIFI 1

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)	-2.82	-2.92	-2.94	-2.75	-2.82	-2.90	-2.96	-2.97	-2.96	-2.96	-2.88	-2.70	-3.01	-2.86	-2.70	-2.85
Gain (dBi)	2.77	2.44	2.33	2.77	2.87	2.79	2.83	2.63	2.53	2.32	2.39	2.48	2.62	2.72	2.22	2.30
Efficiency (%)	52.29	51.03	50.82	53.08	52.21	51.34	50.56	50.48	50.55	50.54	51.54	53.74	50.06	51.65	53.71	51.77

2450.0MHz H+V, Eff: 51.3%



5850.0MHz H+V, Eff: 51.8%



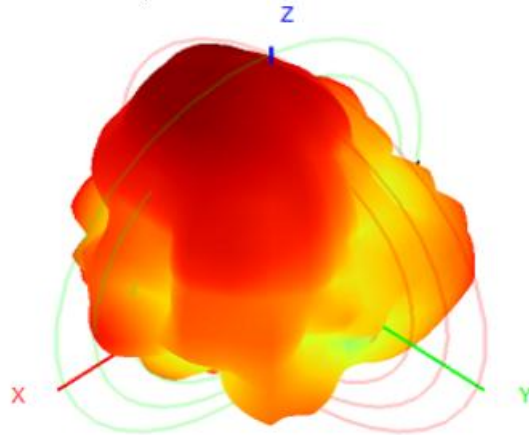
2. Test Result

2.5 WIFI Antenna Gain/Efficiency/3D DATA

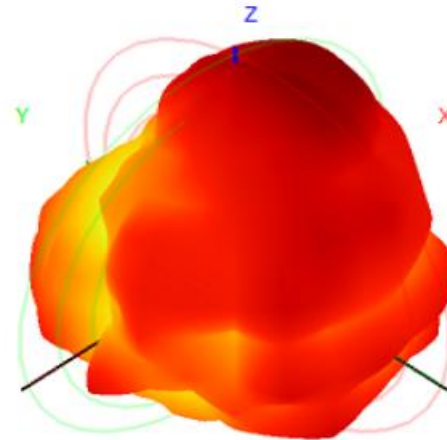
BT

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)	-2.91	-2.96	-2.94	-2.90	-2.79	-2.91	-2.97	-2.90	-2.92	-2.88	-2.95
Gain (dBi)	2.27	2.23	2.30	2.23	2.51	2.64	2.49	2.32	2.32	2.37	2.32
Efficiency (%)	51.07	50.56	50.78	51.25	52.58	51.11	50.44	51.25	50.96	51.50	50.67

2450.0MHz H+V, Eff 51.1%



Back View





3. Conclusions

Thank you