

承 认 书

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ REV _____ XI

SPECIFICATION 2.4-2.5/5.15-7.15GHz
WIFI MIAN Antenna L=285mm(Ø0.81+MHF) weight _____

SUP PART NO SLEingB254380285

DATE 2026.03.03


SUP APPROVED

APPROVED	Structure audit	RF CHECKED	QA CHECKED	DESIGNED
<i>Jongbei</i>	<i>jerry</i>	<i>Jongbei</i>	<i>Shiyen</i>	<i>jerry</i>

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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MODIFICATION RECORD SHEET

REV.	Modification date	Summary of modification content	Signature	Approval
X1	2026.03.03	First Issue	Jerry	Jongrei

Spec Item

NO.	Project	Remark	Page
1	Spec Cover		1
2	MODIFICATION RECORD SHEET		2
3	Spec Item		3
4	Drawing		4
5	Test Reports		5
6	Antenna assembly diagram		6
7	S Parameter Test		7
8	TestEnvironmental treatment		8
9	Test Setup		9
10	Test Efficiency		10
11	Test TRP/ TIS		11
12	Product packaging specification		12

Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

REV.	CONTENT	DATE
X1	First Issue	2026.03.03



SLEing®		CUSTOMER			
GUANGDONG SLEING COMM-TECH CO.,LTD		PART NO			
		TITLE		WIFI MIAN Antenna	
		S L P/NO		SLEingB254380285	
	TOLERANCE UNLESS OTHERWISE SPECIFIED SIZE	DRAWN	CHECKED	APPROVED	
UNIT:mm	ANGLES ±0.5°	A4	jerry	jerry	JongBe
SHEET: 1/1	0.XX ±0.05				
SCALE: 1/1	XXX ±2.0				

Test Reports

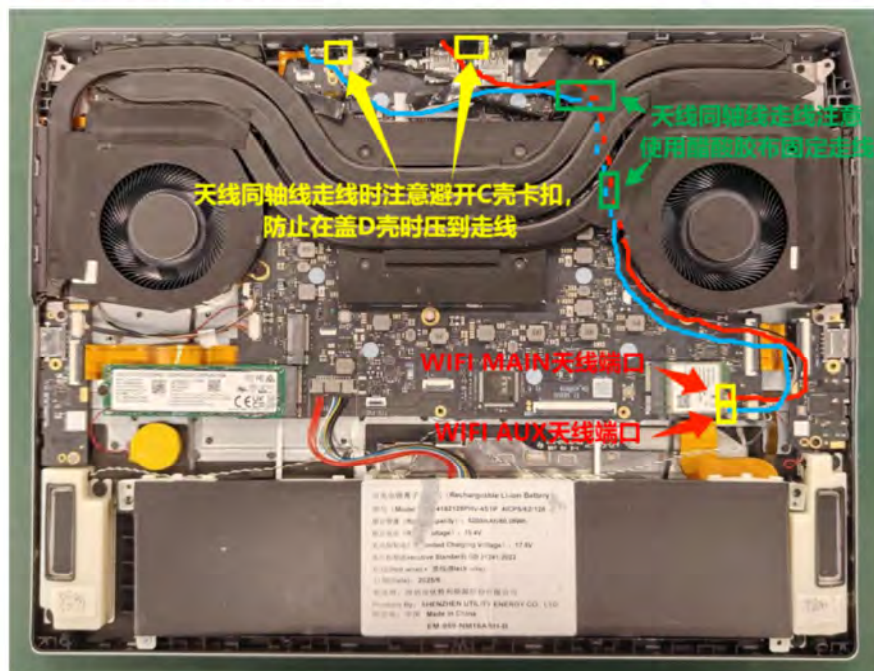
Electrical Properties	
Frequency	2.4-2.5/5.15-7.15 GHz(Whole engine test)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G:-0.13dBi/5.8G:2.18dBi/7.15G:1.04dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPC
Cable Type	$\Phi 0.81\text{mm}$ Grey
Operating Temp	-40°C-85°C
Storage Temp.	-5°C-30°C

Antenna assembly diagram

Device

装好主板，注意理好走线。天线同轴线走线时注意避开 C 壳卡扣，防止在盖 D 壳时压到走线，天线走线走在散热铜管下方。

将 WIFI 天线端子扣在 WiFi 端口（黄色框所标）上。图中
红线为 WIFI MAIN 天线走线，天线线长 285mm，直径 0.81mm，4 代端子（黑色低损同轴线）。
蓝线为 WIFI AUX 天线走线，天线线长 345mm，直径 0.81mm，4 代端子（灰色低损同轴线）。



Antenna

WIFI MAIN 天线粘贴细节如下：天线缺口处对齐定位柱和卡扣骨位粘贴。天线同轴线出线注意避开 C 壳卡扣，防止盖 D 壳时压到同轴线。注意：天线粘贴过程中不能出现偏移、起翘或破损。

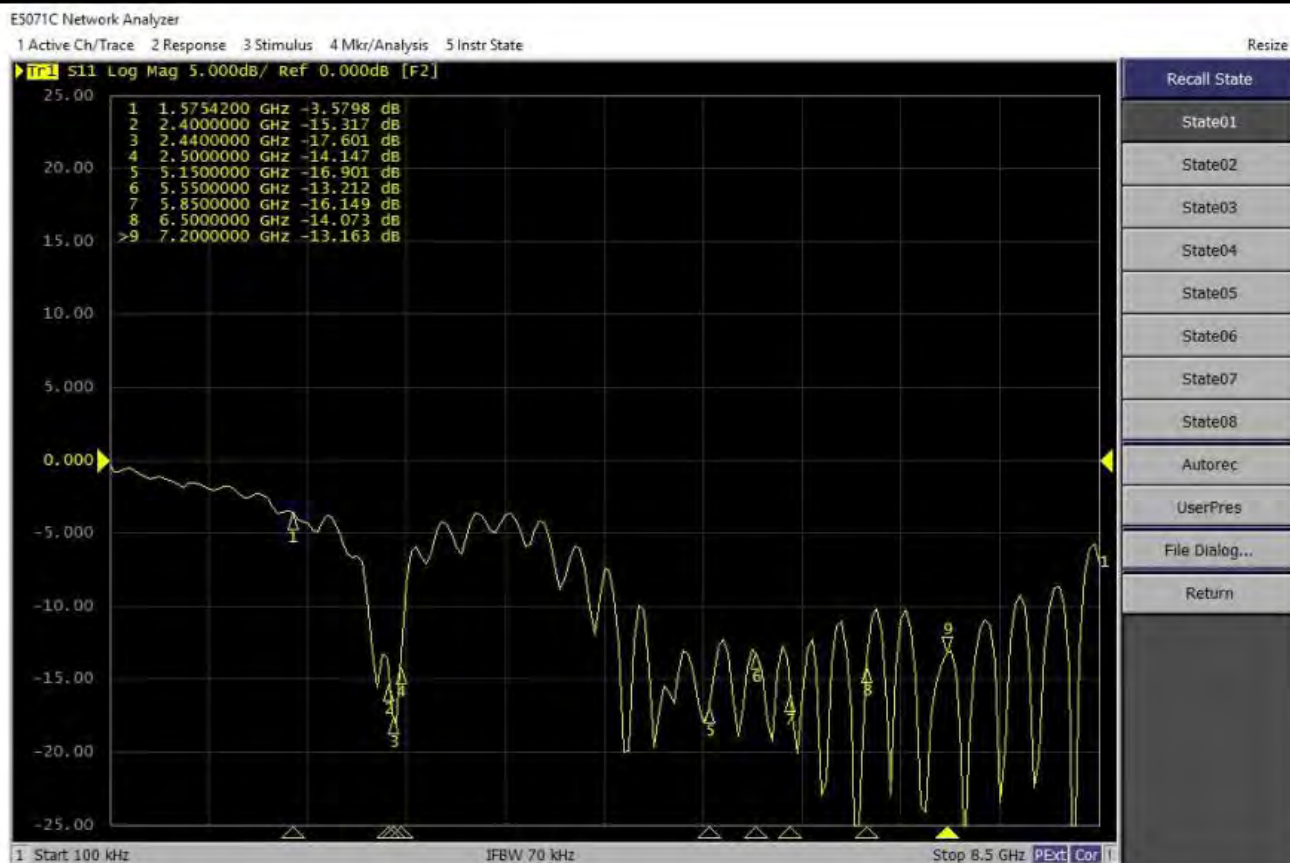


S Parameter Test

Agilent E5071C Network Analyzer



RF Antenna (Return Loss)

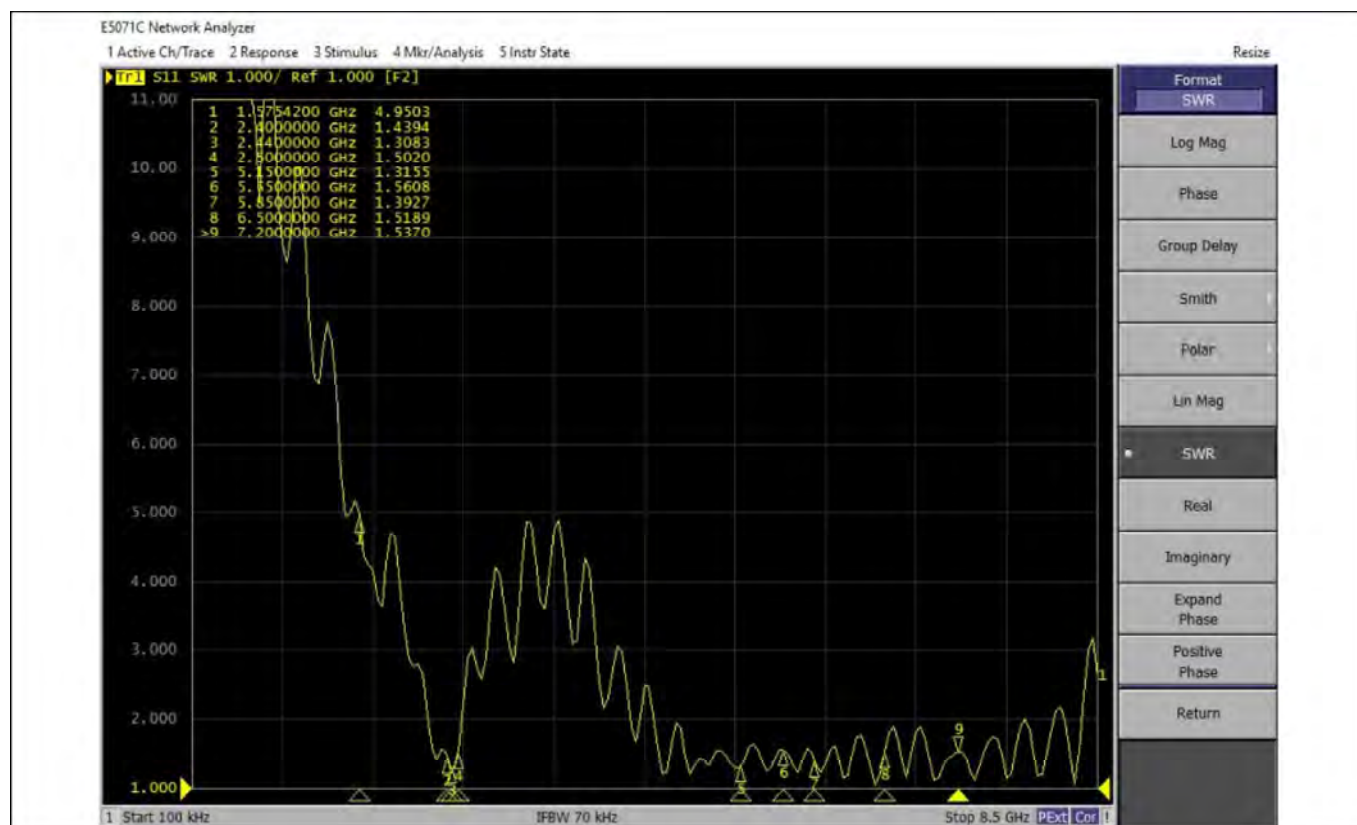


S Parameter Test

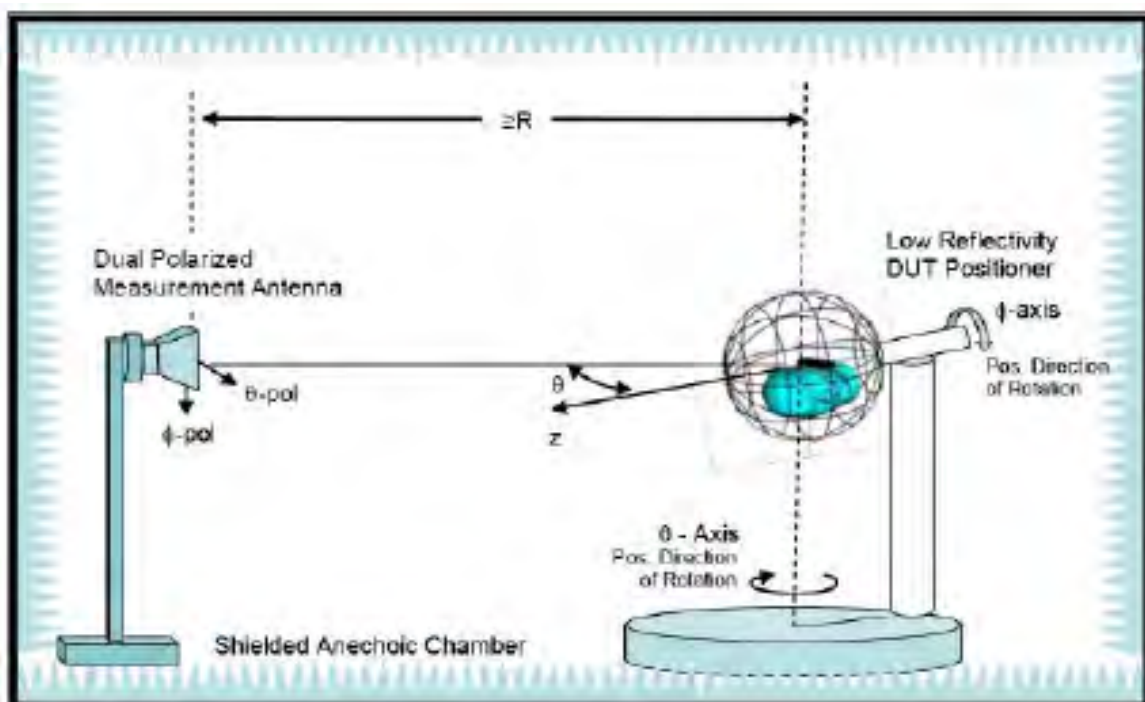
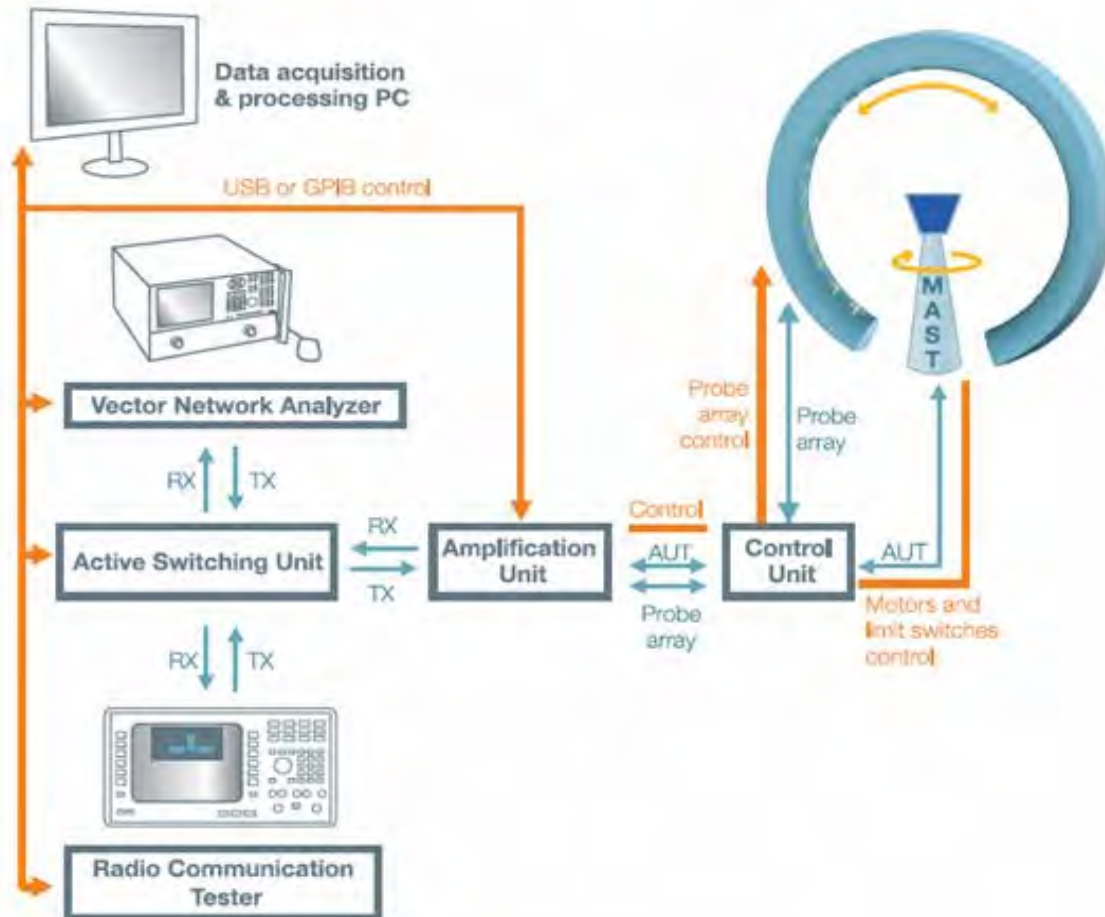
Agilent E5071C Network Analyzer



RF Antenna (VSWR)



Test Setup



Test Efficiency

WiFi 2.4G 天线效率	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
	1	2400	-0.46	22.37
	2	2410	-0.23	22.93
	3	2420	-0.13	23.82
	4	2430	-0.42	24.13
	5	2440	-0.84	24.69
	6	2450	-1.08	25.2
	7	2460	-0.77	24.91
	8	2470	-0.61	24.38
	9	2480	-0.45	24.22
	10	2490	-0.37	23.99
	11	2500	-0.44	23.6
WiFi 5G 天线效率	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
	1	5150	1	28.2
	2	5200	1.05	27.38
	3	5250	1.29	28.04
	4	5300	1.51	29.31
	5	5350	1.7	31.13
	6	5400	1.72	32.15
	7	5450	1.83	33.12
	8	5500	2.12	34.66
	9	5550	2.18	36.68
	10	5600	2.12	37.34
	11	5650	2.15	36.08
	12	5700	2.13	35.05
	13	5750	2.09	34.08
	14	5800	2.02	33
	15	5850	2.11	33.42
WiFi 6G 天线效率	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
	1	5950	0.83	31.61
	2	6000	1.03	32.93
	3	6050	1.04	33.42
	4	6100	0.77	33.03
	5	6150	0.47	32.26
	6	6200	0.3	31.68
	7	6250	0.11	31.43
	8	6300	-0.17	30.65
	9	6350	-0.58	29.01
	10	6400	-0.7	27.15
	11	6450	-0.9	25.51
	12	6500	-0.97	24.41
	13	6550	-0.91	23.63
	14	6600	-0.29	24.2
	15	6650	-0.13	23.94
	16	6700	-0.13	23.51
	17	6750	-0.09	23.98
	18	6800	0.01	25.39
	19	6850	0.05	26.36
	20	6900	0.16	27.7
	21	6950	0.06	28.17
	22	7000	-0.02	27.66
	23	7050	-0.12	26.67
	24	7100	0.08	26.71
	25	7150	0.38	26.91
	26	7200	0.7	27.23

Test TRP/ TIS

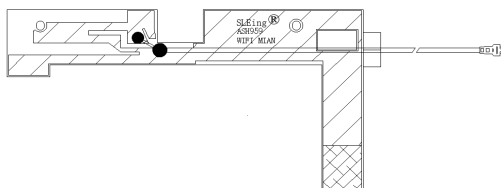
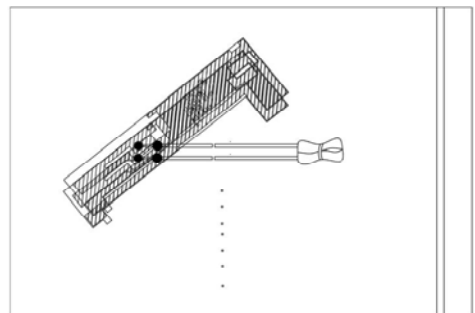
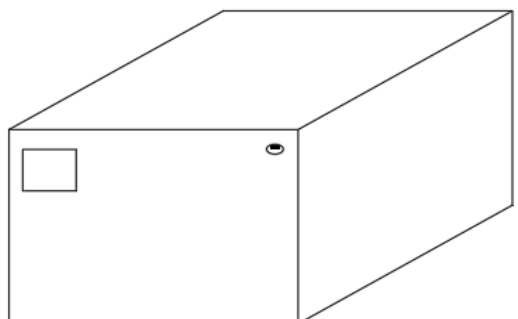
WiFi天线有源OTA测试报告										
测试项				Rate/Mbps		YD spec A		MT7925模块		按级判定
测试频段	Mode	Channel	Frequency (MHz)	TRP	TIS	TRP	TIS	TRP	TIS亮	PASS/FAIL
STA 2.4GHz	11b 11M	1	2412	11	11	≥11	≤-78	7.18	-79.61	PASS
		6	2437					7.7	-80.45	PASS
		11	2462					8.07	-79.48	PASS
		AVG						7.65	-79.85	
STA 5GHz	11a 6M	36	5180	6	6	≥10	≤-84	10.67	-90.01	PASS
		149	5745					15.35	-91.15	PASS
		165	5825					14.78	-91.29	PASS
		AVG						13.60	-90.82	

Product packaging specification

Date: 2026.03.03

page:

1of1

Name of finished product	WIFI MIAN Antanna	customer			
Finished product number	SLEingB254380285	REV.	X1		
 Single PCS antenna		(2) 50PCS in a PE bag, the PE bag should be labeled with product labels to mark the product name, specifications, quantity, date and heat seal processing. 			
(4) Product labels should be affixed to the outer case to indicate the name, specification, quantity and date of the product. (5) Each batch of products should be attached with "factory inspection report". (6) Storage conditions: temperature: -5℃-+30℃, humidity: 20%-70%, The period is one year.		(3) Packing: 10-60 bags per box (total 1000-6000PCS) 			
DESIGNED	Jreey	CHECKED	Jreey	APPROVED	Jongrei