



GUANGDONG SLEING COMM-TECH CO., LTD

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

CUS PART NO

REV

X3

SPECIFICATION

2.4~2.5/5.15~7.15GHz

WIFI AUX Antenna L=290mm(Ø0.81+MHF)

weight

SUP PART NO

SLEingB247870175

DATE

2025.01.07

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED
JONGREI	HZH	LSY	XIANG

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

GUANGDONG SLEING COMM-TECH CO., LTD

Room 402, Building 6, No. 24, Industrial East Road, Songshan Lake Park,
Dongguan City, Guangdong Province

Tel: +86-076989208968

Fax: +86-0769-89208969

www.sleing.com



RECORD SHEET

[illegible]



GUANGDONG SLEING COMM-TECH CO., LTD

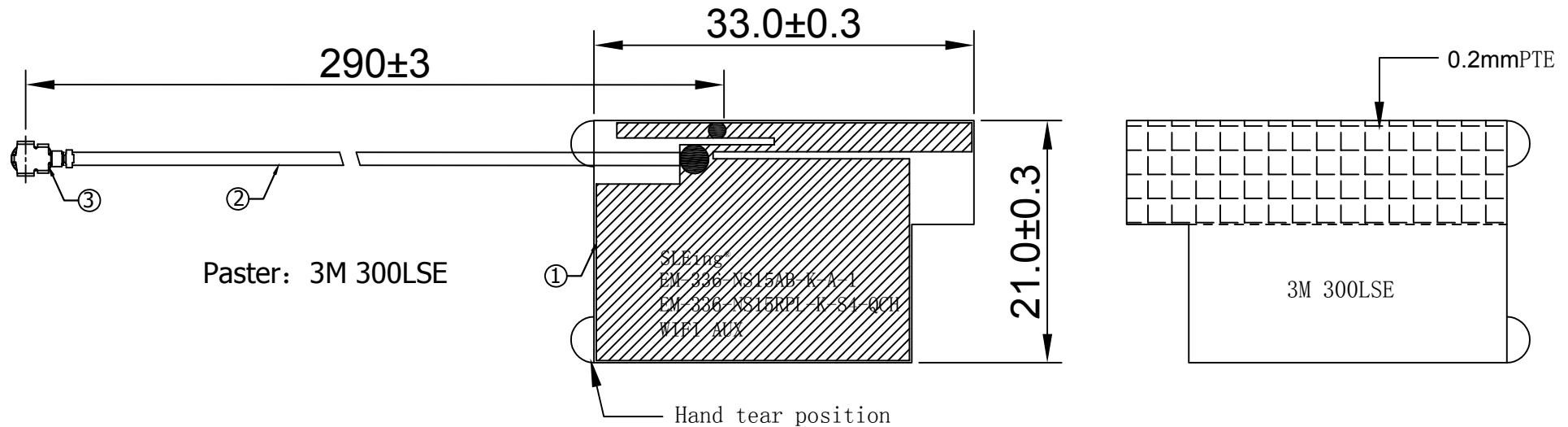
承认书项目表 (Spec Item)

N0.	Project	Remark	Page
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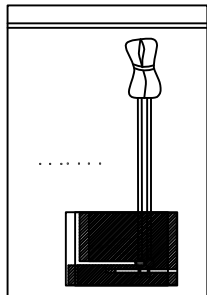
Give clear indication of:

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.

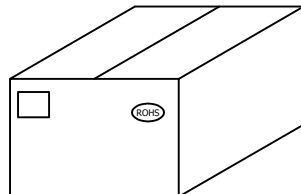
REV.	CONTENT	DATE
X1	First Sample	2024.08.01
X2	Modify FPC	2024.10.22
X3	Add printing	2025.01.07



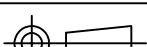
Specification:
Frequency Rang:2.4~2.5/5.15~7.15GHz
Return Loss:-10dB or less
VSWR:1.92 Max



50pcs/Bundle
Packing:100pcs/bag



The outer box must be attached with 1
ROHS label and 1 material label

 50pcs/Bundle Packing:100pcs/bag  The outer box must be attached with 1 ROHS label and 1 material label					SLEing® GUANGDONG SLEING COMM-TECH CO.,LTD  TOLERANCE UNLESS OTHERWISE SPECIFIED			CUSTOMER			
								PART NO			
								TITLE		WIFI AUX ANTENNA	
								S.L P/NO		SLEingB247870175	
3	Connector	MHF Plug for Φ0.81 Cable		1	A4	SIZE	DRAWED	CHECKED	APPROVED		
2	Cable	Φ0.81mm Coaxial Cable Black,50Ω		1		UNIT:mm	ANGLES ±0.5°	X. ±0.3			
1	FPCB	FPC,L33.0*W21.0*T0.4mm,Color:Black	300LSE Adhesive	1		SHEET: 1/1	.XX ±0.05	XX. ±0.5			
NO	PART NAME	DESCRIPTION	REMARK	Q'TY		SCALE: 1/1		XXX. ±2.0			

8 7 6 5 4 3 2 1



Test Reports

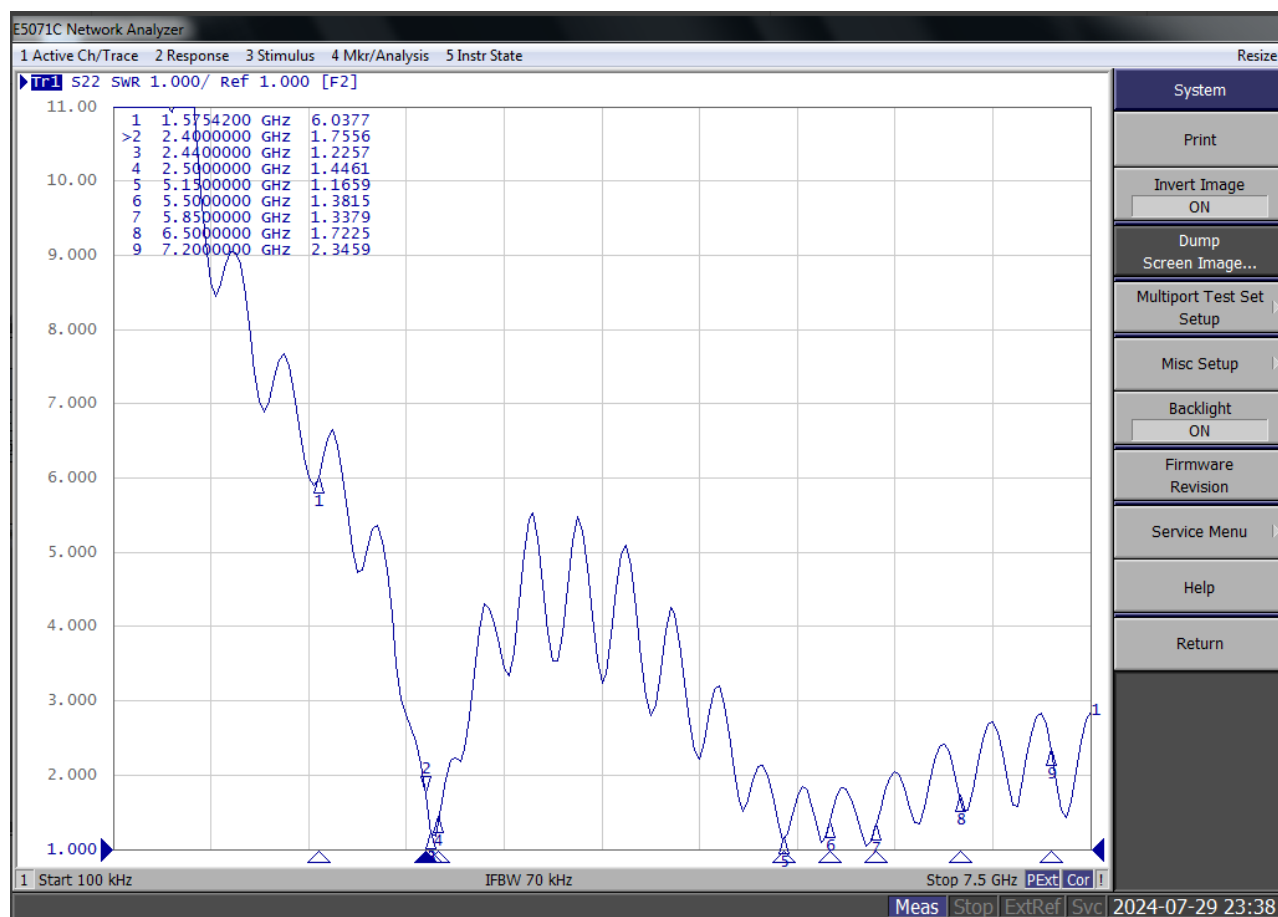
Electrical Properties	
Frequency	2.4~2.5 5.15~7.15GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2 $\pm$ 0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 0.81$ mm Black
Operating Temp	-40 $^{\circ}$ C -+85 $^{\circ}$ C
Storage Temp.	-5-+30 $^{\circ}$ C

S Parameter Test

Agilent E5071C Network Analyzer



WIFI Antenna

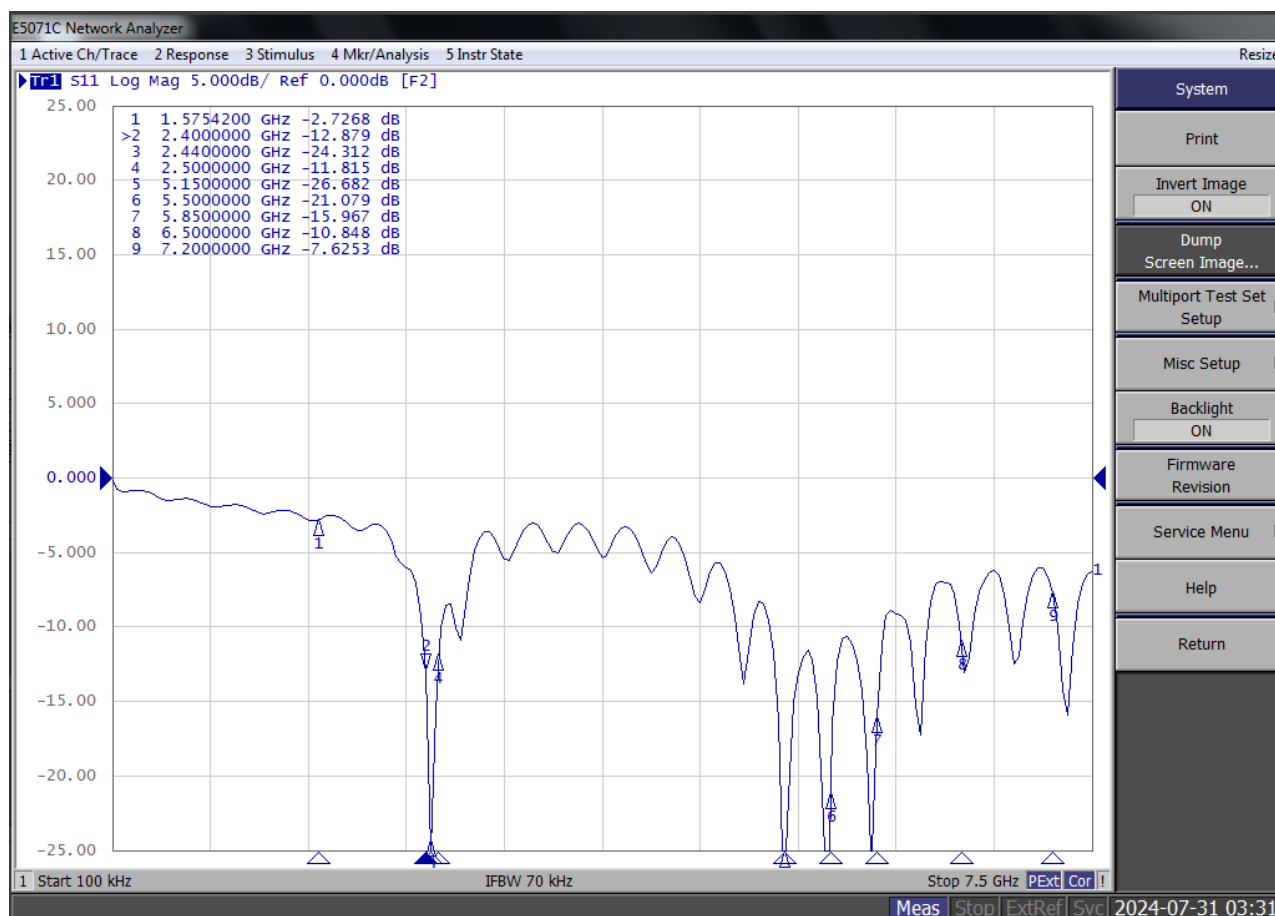


S Parameter Test

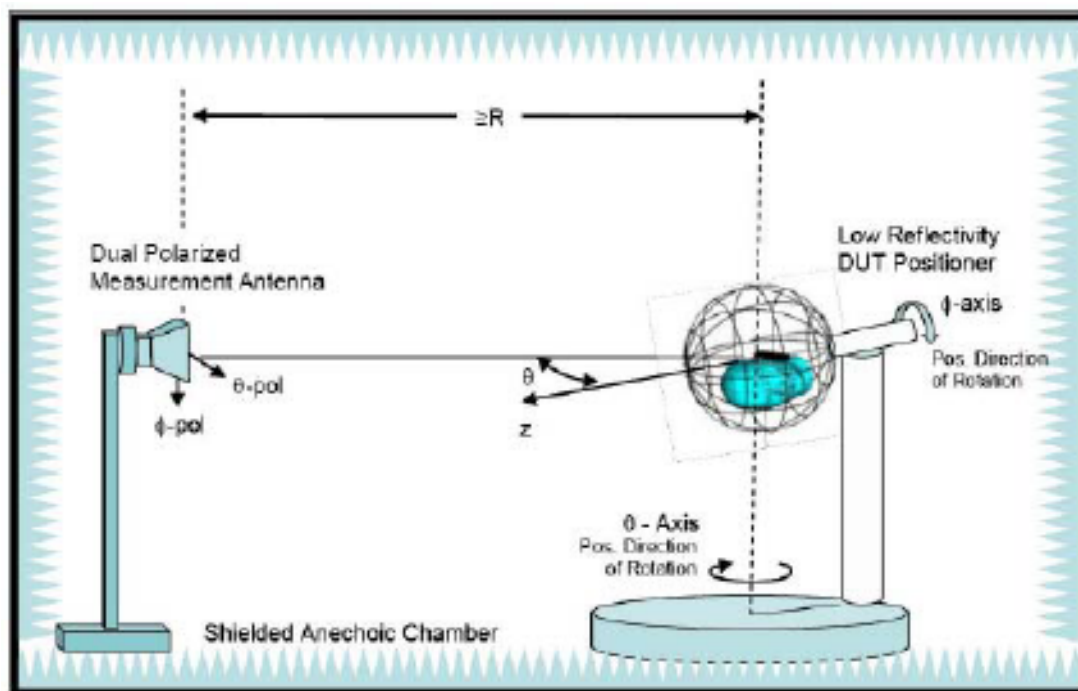
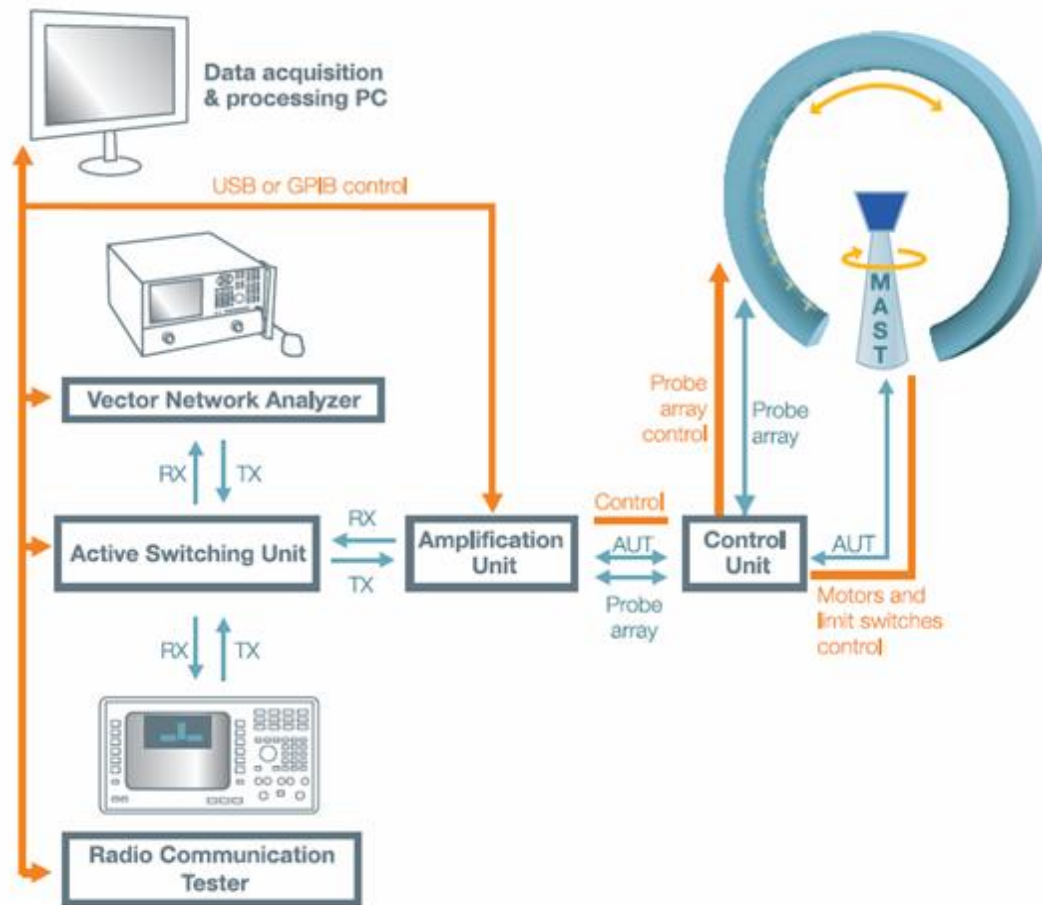
Agilent E5071C Network Analyzer



WIFI Antenna



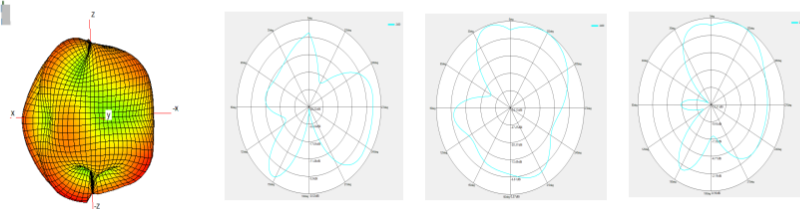
Test Setup



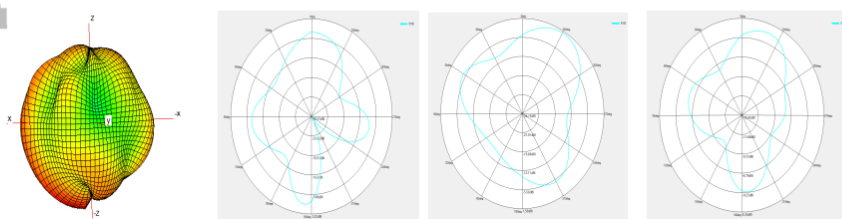
Test Efficiency

WIFI-AUX天线无源效率测试报告

2.4G WiFi	Frequency ID	1	2	3	4	5	6	7	8	9	10	11
	Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
	Gain (dBi)	0.32	0.38	0.26	0.21	-0.11	-0.16	-0.24	-0.28	-0.08	0.09	0.23
	Efficiency (%)	35.00	35.18	34.75	34.08	33.08	34.05	33.96	33.87	33.45	33.25	33.40



5G WiFi	Frequency ID	1	2	3	4	5	6	7	8	9	10	11
	Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0
	Gain (dBi)	1.32	1.09	1.77	1.70	1.32	1.21	1.16	1.85	0.98	1.48	1.53
	Efficiency (%)	33.06	31.34	30.31	30.75	30.79	31.75	31.20	33.70	33.28	35.32	33.18
	Frequency ID	12	13	14	15	16	17	18	19	20	21	22
	Frequency (MHz)	5700.0	5750.0	5800.0	5850.0							
	Gain (dBi)	1.45	1.81	1.92	1.04							
	Efficiency (%)	31.06	32.54	31.13	30.85							





OTA

Bandwidth	Free Space Requirements		Channal	Testing Results		Gap	
	TRP	TIS		TRP	TIS (LCD ON)	TRP	TIS (LCD ON)
11b 11Mbps	10	-72	1	11.0	-78.6	1.0	6.6
	10	-72	6	12.9	-78.6	2.9	6.6
	10	-72	11	12.1	-79.1	2.1	7.1
	10.0	-72	Avg	12.0	-78.8	2.0	6.8
11a 6Mbps	9	-82	36	11.0	-82.6	2.0	0.6
	9	-82	100	11.1	-84.3	2.1	2.3
	9	-82	157	11.6	-82.5	2.6	0.5
	9.0	-82.0	Avg	11.2	-83.1	2.2	1.1