

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X4

品 名 / 规格 :

2.4~2.5/5.15~5.85GHz

单重:

SPECIFICATION

WIFI AUX Antenna L=65mm(Ø1.13+MHF)

weight

供 方 料 号 :

SUP PART NO

SLEingB242550065

日 期 :

DATE

2023.11.30

厂 商 核 准 :

SUP APPROVED

核准 APPROVED	结构审核 Structure audit	RF审核 RF CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>Jangfan</i>	H24	JDM	<i>LSY</i>	<i>Xiaomeng</i>

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO., LTD

中国广东省东莞市松山湖工业东路24号现代企业加速器6栋402

Room 402, No.6 Plant, Accelerator of Modern Enterprise, No, 24 Industry
East Road Songshanlake District, Dongguan City, Guangdong

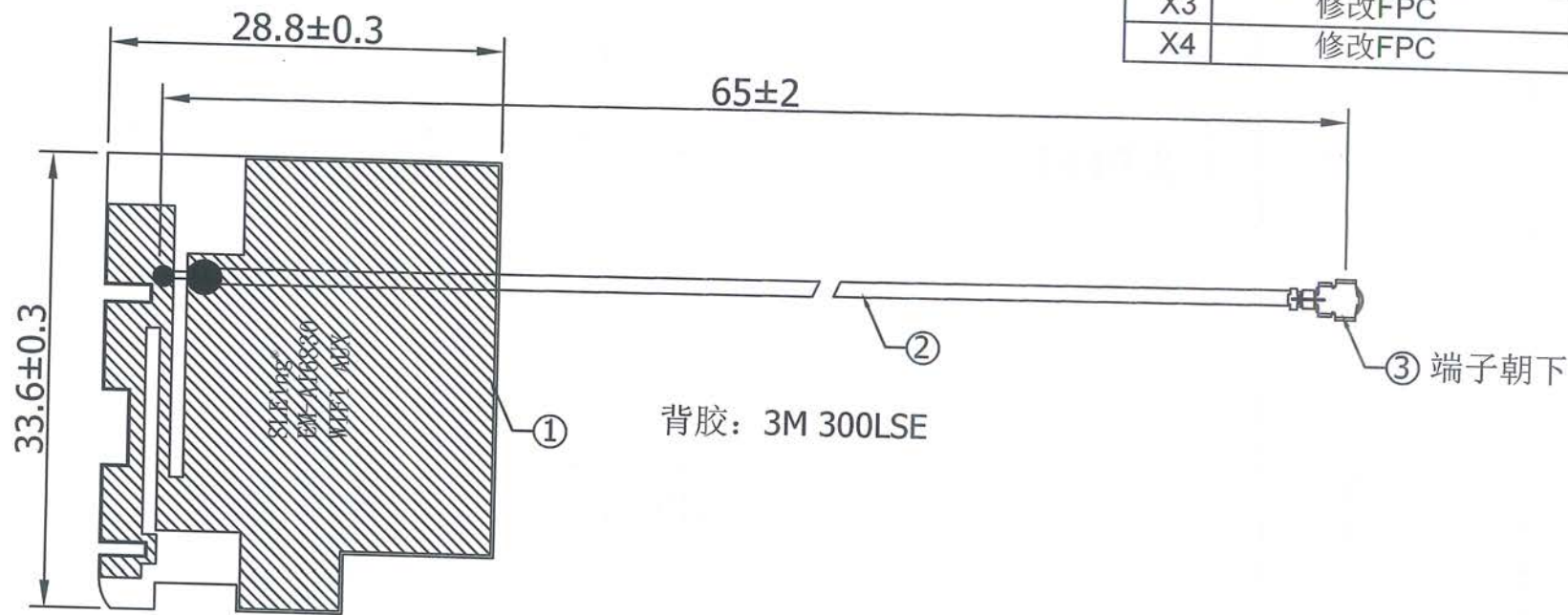
Tel: +86-076989208968

Fax: +86-0769-89208969

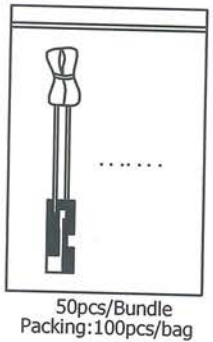
www.sleing.com

正本由承办单位保存

REV.	CONTENT	DATE
X1	First Sample	2023.08.24
X2	修改FPC	2023.09.11
X3	修改FPC	2023.10.17
X4	修改FPC	2023.11.30



Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz(带机测试)
Return Loss:-10dB or less
VSWR:1.92 Max



3	Connector	MHF Plug for $\Phi 1.13$ Cable	第一代端子	1
2	Cable	$\Phi 1.13\text{mm}$ Coaxial Cable Black,50 Ω		1
1	FPCB	FPC,L33.6*W28.8*T0.3mm,Color:Black	300LSE Adhesive	1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY

SLEing® 森岭
东莞市森岭智能科技有限公司
DONGGUAN SLEing INTEL-TECH CO.,LTD

CUSTOMER		
PART NO		
TITLE		WIFI AUX ANTENNA
S.L P/NO		SLEingB242550065
SIZE	DRAWN	CHECKED
A4		

TOLERANCE UNLESS OTHERWISE SPECIFIED
UNIT:mm
SHEET: 1/1
SCALE: 1/1
ANGLES $\pm 0.5^\circ$
0.XX ± 0.05
XXX. ± 2.0
X. ± 0.3
XX. ± 0.5

2023.11.30
工程部



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO.,LTD

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.34 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 1.13\text{mm}$ Black
Operating Temp.	-40~+85 °C
Storage Temp.	-5~+30 °C
Model Number	X4-AUX

Manufacturer: DONGGUAN CITY SLEing INTEL-TECH CO.,LTD.

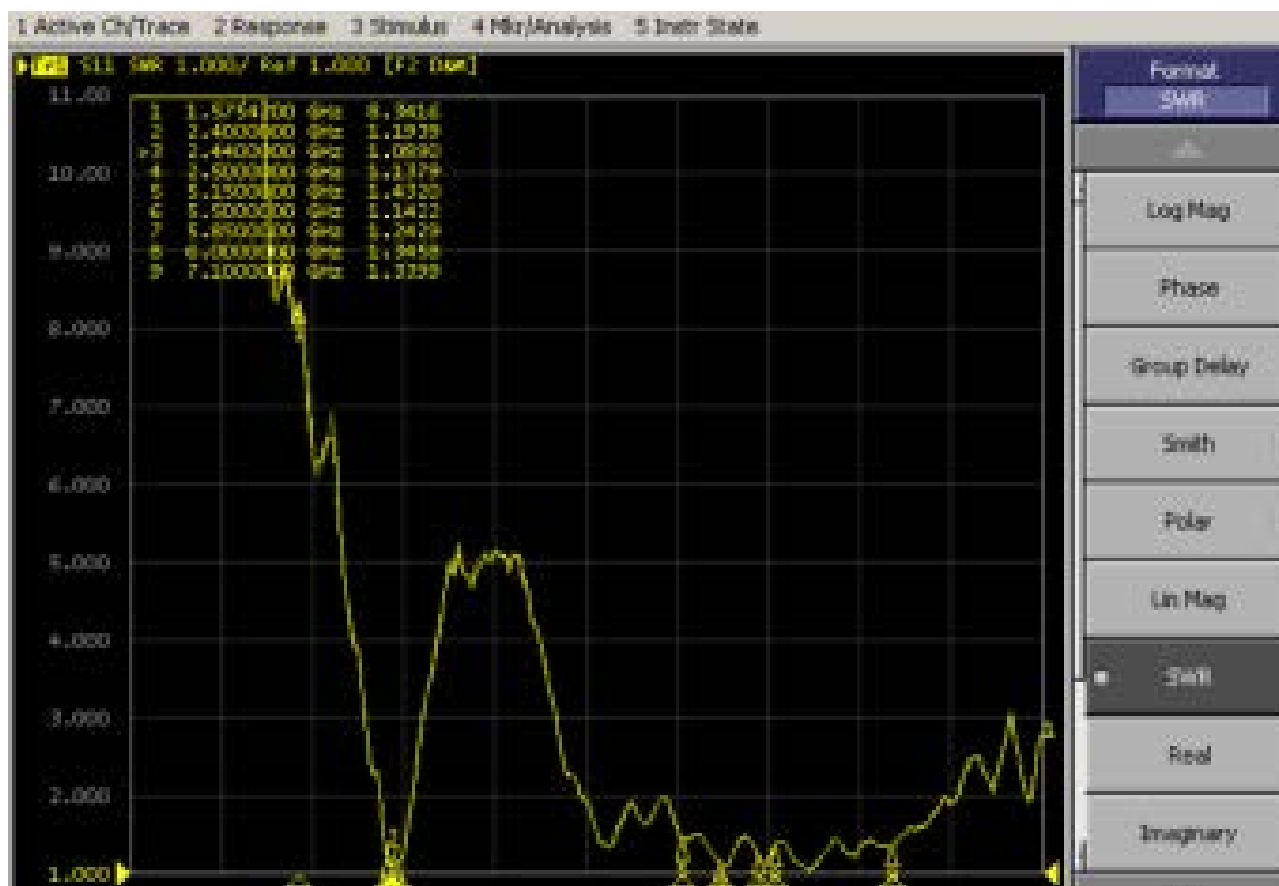
Address: Room 402, No.6 Plant, Accelerator of Modern Enterprise,
No.24 Industry East Road Songshanlake District, Donguan City,
Guangdong, China

S Parameter Test

Agilent E5071C Network Analyzer



WiFi 驻波 Antenna (NO.1)

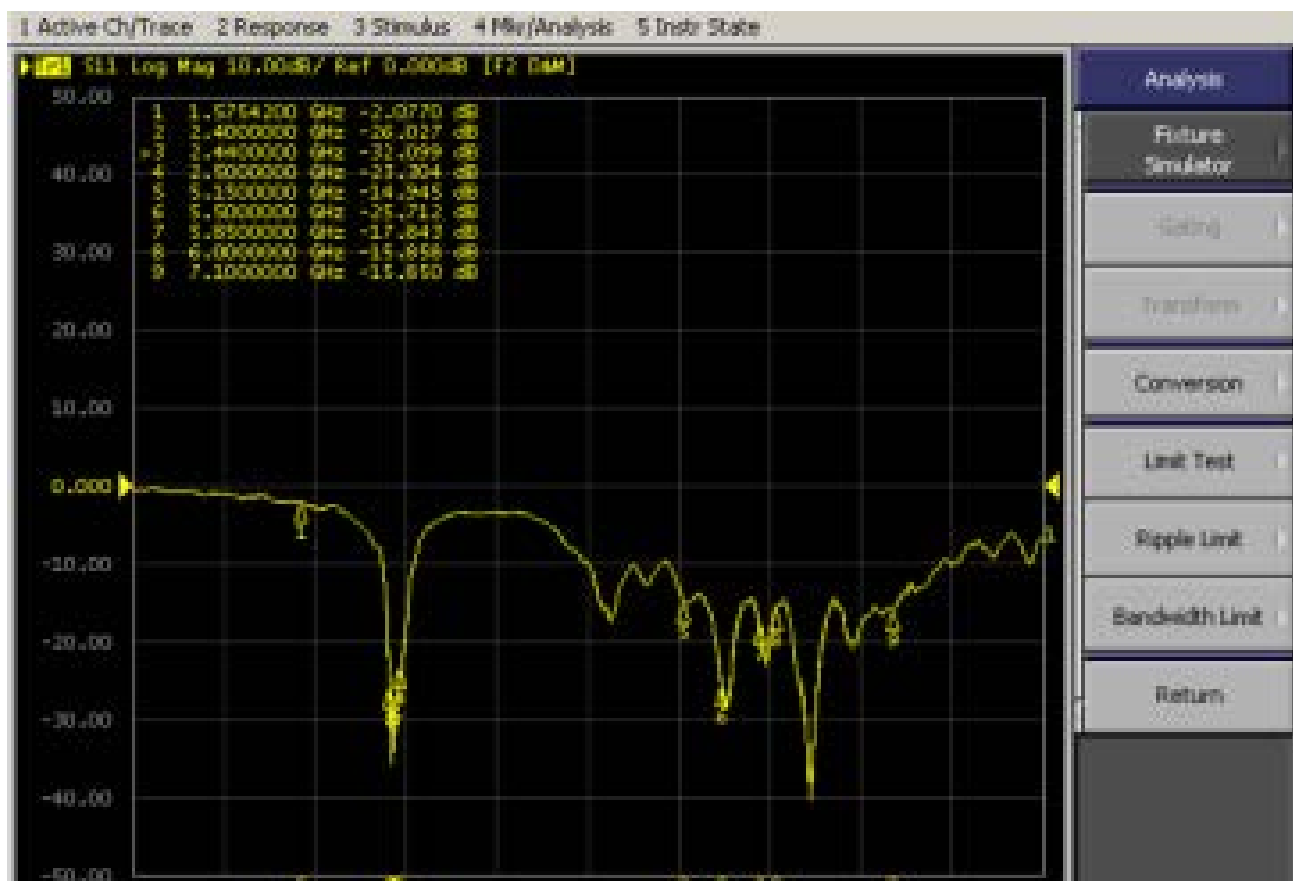


S Parameter Test

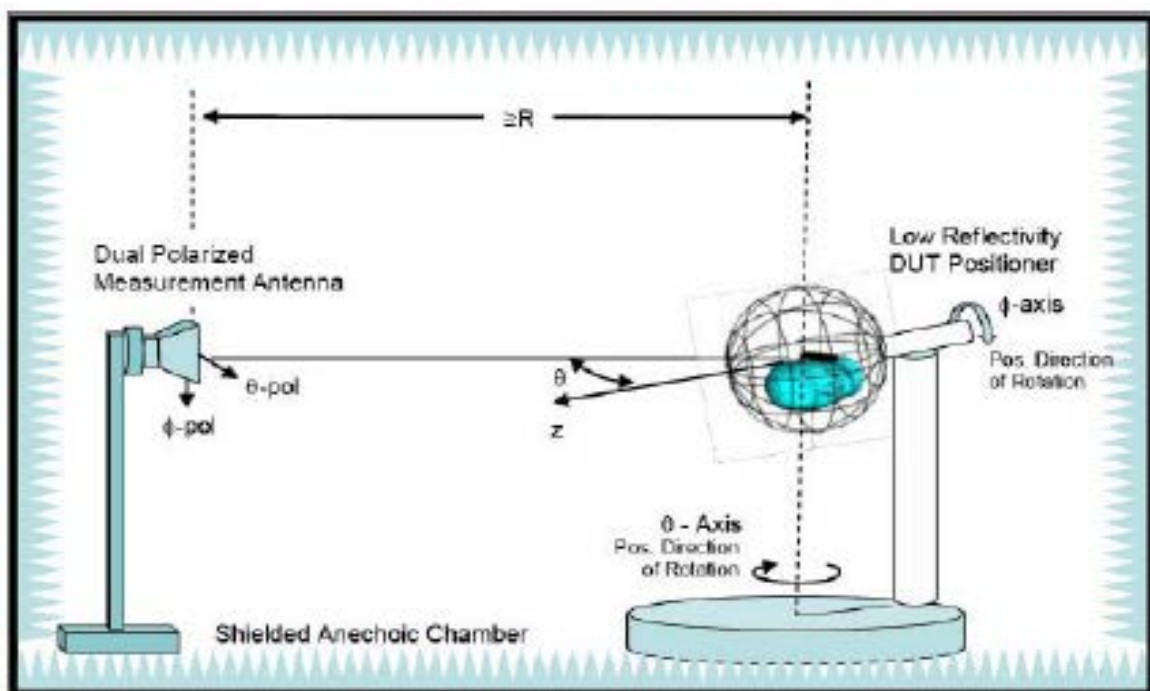
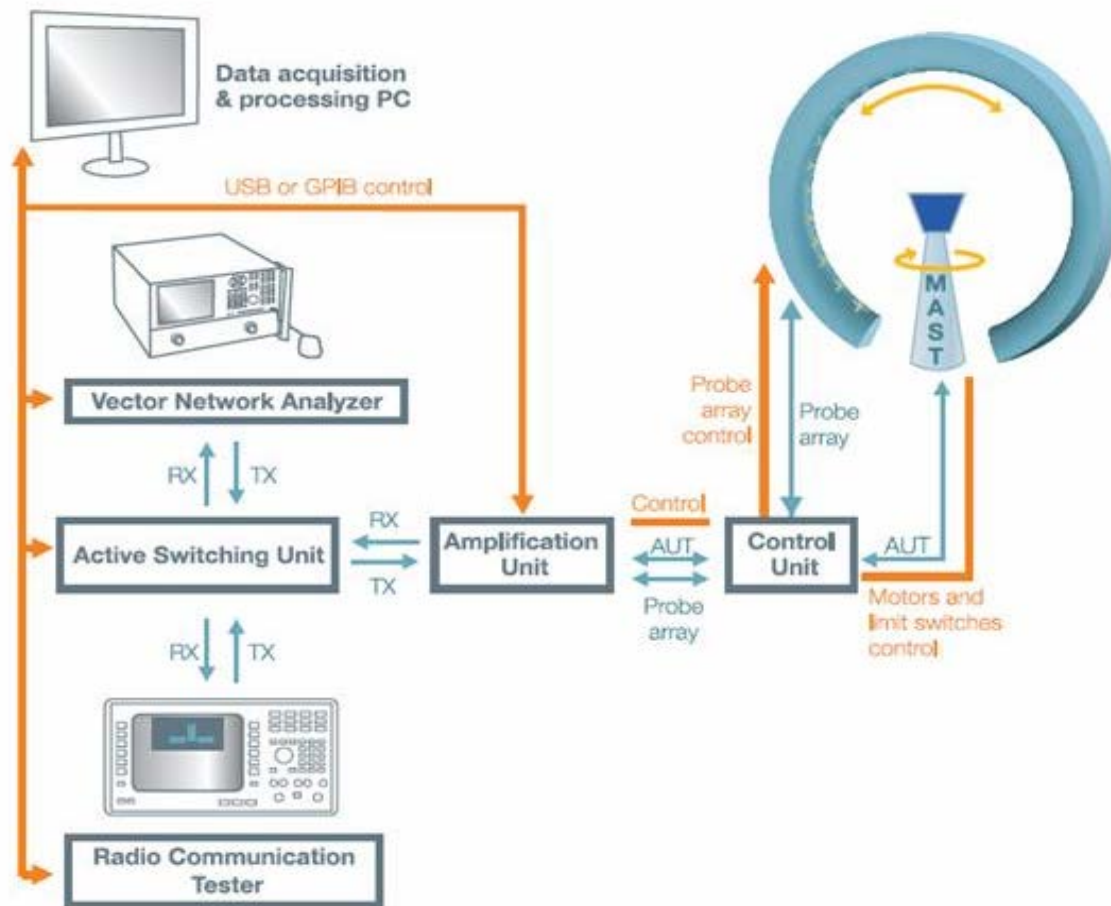
Agilent E5071C Network Analyzer



WiFi 回波损耗 Antenna (NO.1)

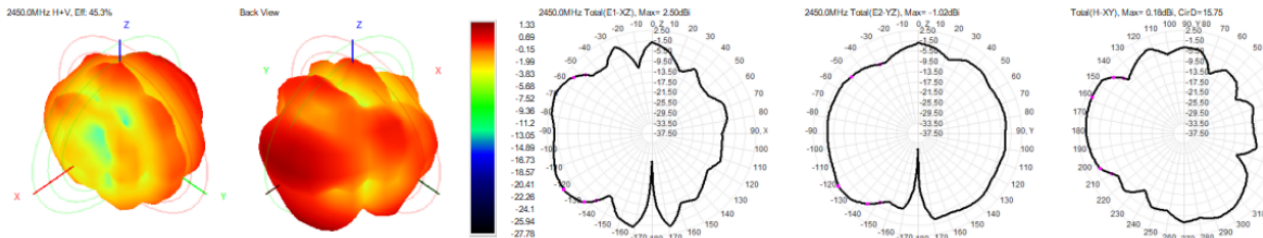


Test Setup

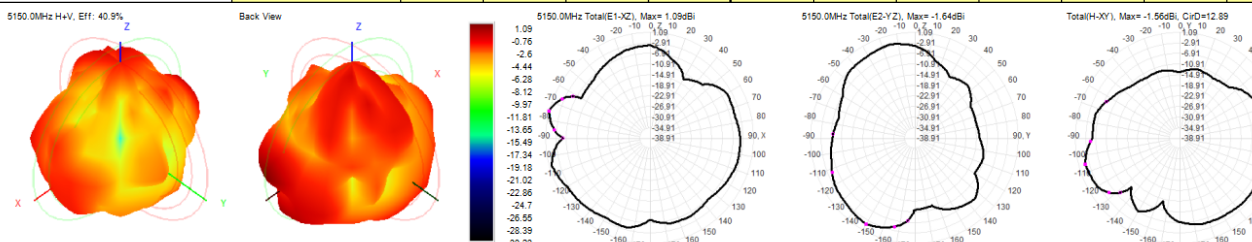


Test Efficiency

项目名称 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
	Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0
	Gain (dBi)	1.33	1.32	1.12	1.01	1.14	1.34	1.16	1.27	1.08
	Efficiency (%)	46.7	46.3	45.8	45.1	44.7	45.3	46.2	46.1	44.3



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)	1.09	0.74	0.86	0.97	0.92	0.93	0.96	0.94	0.44	0.38	0.58
	Efficiency (%)	40.9	40.0	40.8	41.4	41.5	41.5	39.9	40.7	39.8	39.2	39.2
	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)	0.75	0.48	0.53	-0.08							
	Efficiency (%)	39.97	38.33	38.51	39.93							
	Frequency ID	23	24	25	26	27	28	29	30	31	32	33
	Frequency (MHz)	5900.0	5950.0	6000.0	6050.0	6100.0	6150.0	6200.0	6250.0	6300.0	6350.0	6400.0





OTA

WIFI-AUX 2.4G	11b 11Mbps	12.2	-83.4
		12.5	-82.8
		12.2	-81.3
		12.3	-82.5
WIFI-AUX 5G	11a 6Mbps	13.2	-90.5
		14.0	-90.2
		13.5	-90.3
		13.6	-90.3