



DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ REV _____ X3

SPECIFICATION 2.4-2.5 GHz
WIFI Antenna L=160mm(Ø1.13+MHF) weight _____

SUP PART NO SLEingB224480160

DATE 2023.03.17



SUP APPROVED

APPROVED	Structure audit	RF CHECKED	QA CHECKED	DESIGNED
Jackey 2023.3.17	Jerry	Tom	LSY	Jerry

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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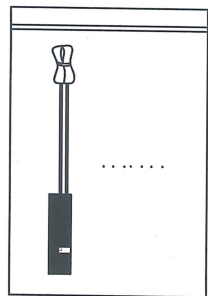
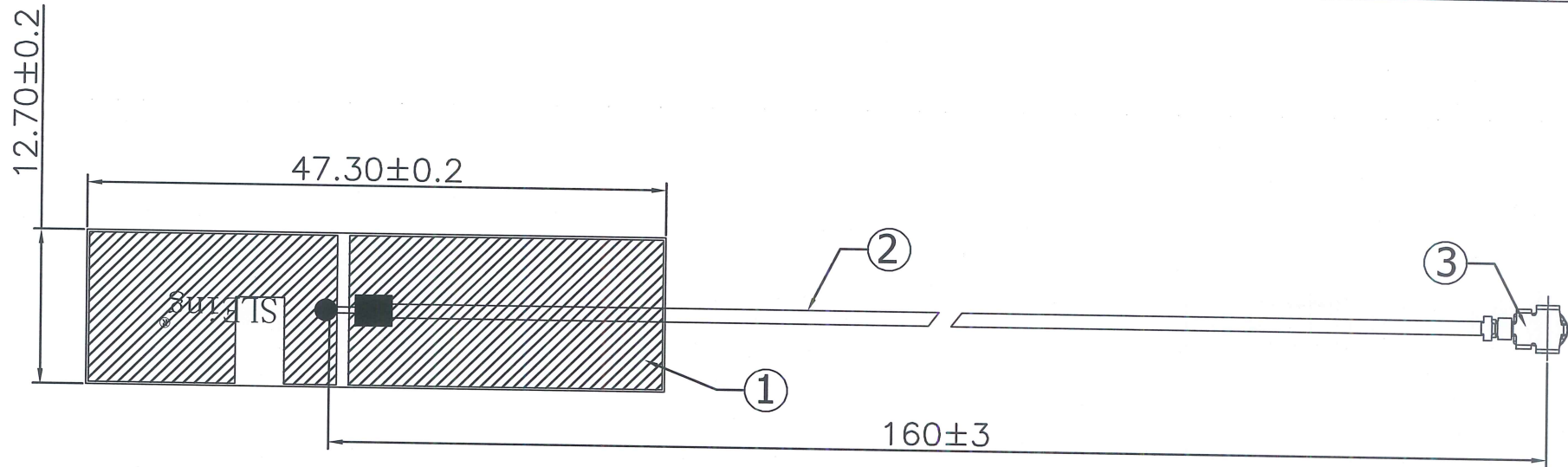
Spec Item

序号 (NO.)	项目 (Project)	备注 (Remark)	页码 (Page)
1	Spec Cover		1
2	Spec Item		2
3	Drawing		3
4	Test Reports		4
5	S Parameter Test		5
6	Test Setup		6
7	Patten		7-9
8	Test Efficiency		10

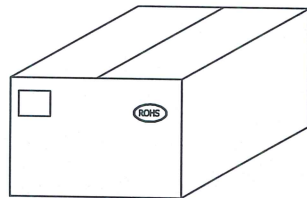
Give clear indication of:

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	2023.02.21
X2	The pad is enlarged and the release paper disconnection position is changed	2023.03.17
X3	Change the pad shape and change the substrate to one to one	2023.03.17



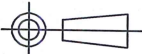
50pcs/Bundle
Packing:100pcs/bag
Packing:16 bags/Carton 1600pcs



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

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



SLEing® DONGGUAN SLEing INTEL-TECH CO.,LTD				CUSTOMER		工程部		
				PART NO				
				TITLE		WIFI ANTENNA		
				S.L P/NO		SLEingB224480160		
		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN	CHECKED	APPROVED	
UNIT:mm		ANGLES ±0.5°		X. ±0.3	A4	Jerry	Long	Jackey 2023-3-31
SHEET: 1/1		0.XX ±0.05		XX. ±0.5				
SCALE: 1/1				XXX. ±2.0				
4		3		2		1		

NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Connector	MHF Plug for Φ1.13 Cable	Fourth generation terminal	1
2	Cable	Φ1.13mm Coaxial Cable Dark Grey,50Ω		1
1	FPCB	FPC,L47.3*W12.7*T0.1mm,Color:Black		1

Test Reports

Electrical Properties	
Frequency	2.4-2.5 GHz(Installation test)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 3.0
Return Loss	-6dB Max
Radiation	Omni-directional
Gain (Peak)	2.99 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 1.13\text{mm}$ Dark Grey
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

S Parameter Test

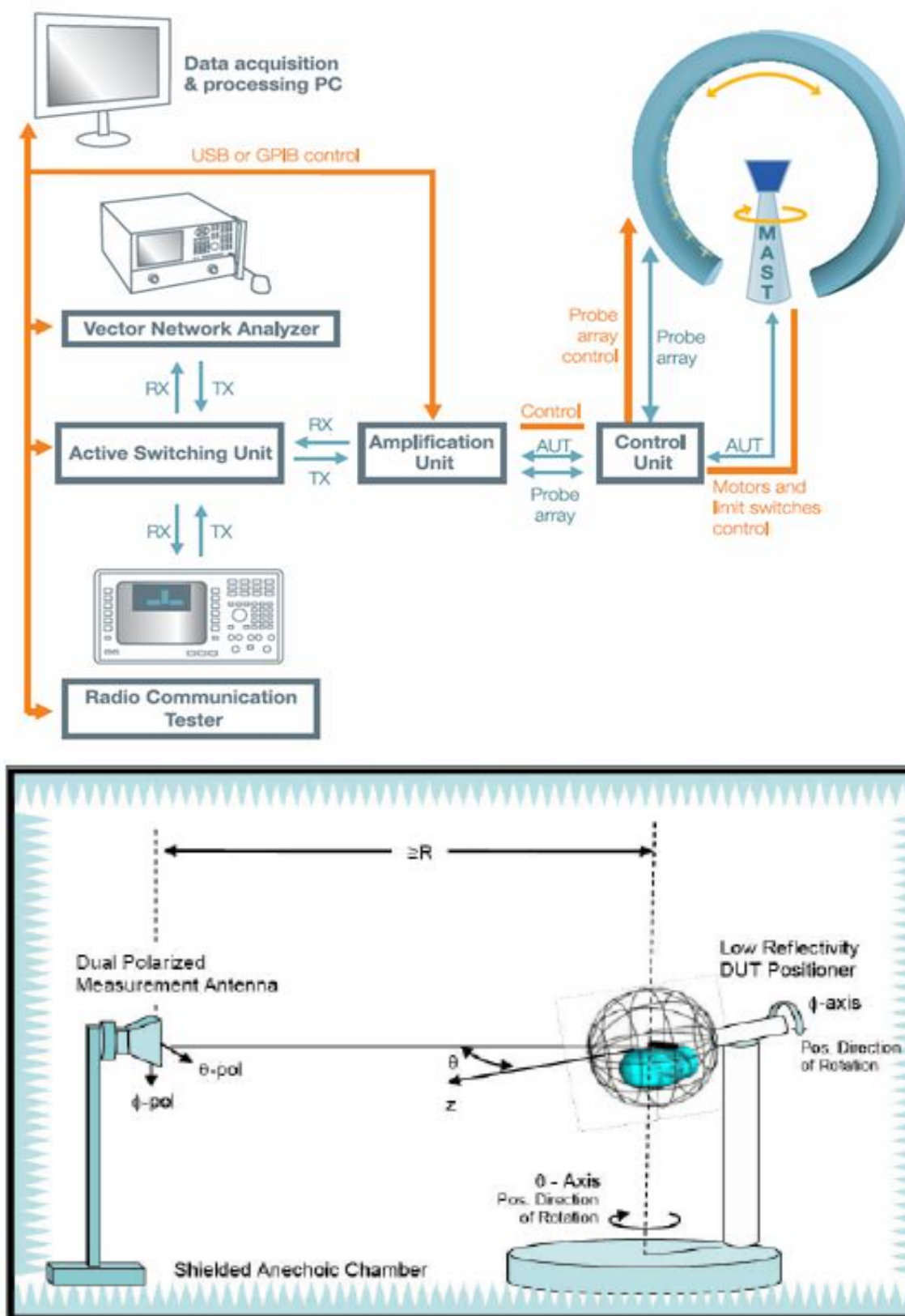
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



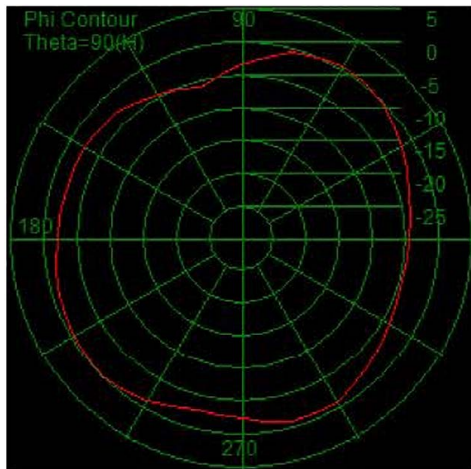
Test Setup



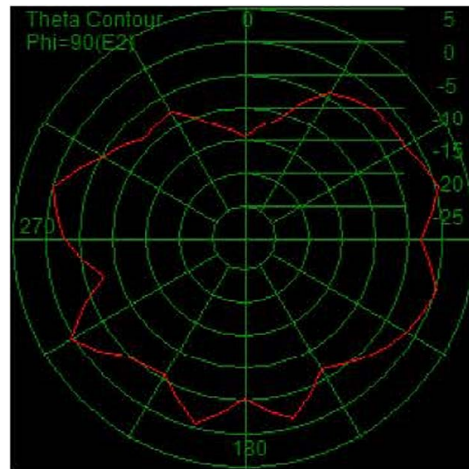
Patten

1.3 2D Radiation patterns test results (Passive Antenna)

XZ Plane

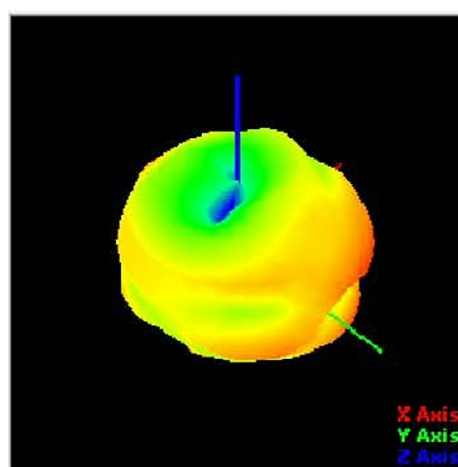


YZ Plane



1.5 3D Radiation patterns test results (Passive Antenna)

3D

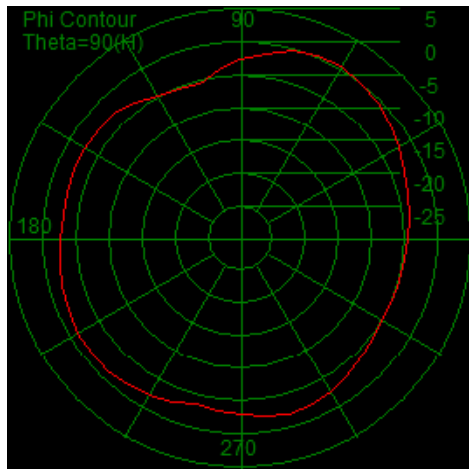


2400MHz

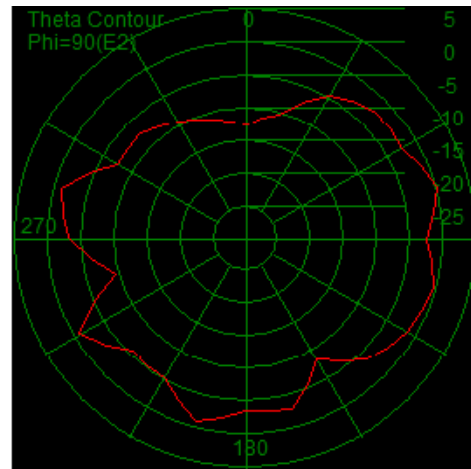
Patten

1.3 2D Radiation patterns test results (Passive Antenna)

XZ Plane

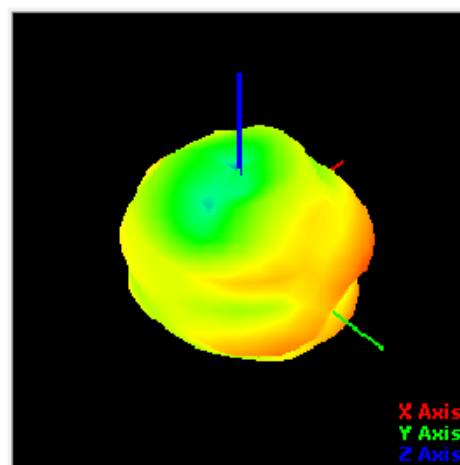


YZ Plane



1.5 3D Radiation patterns test results (Passive Antenna)

3D



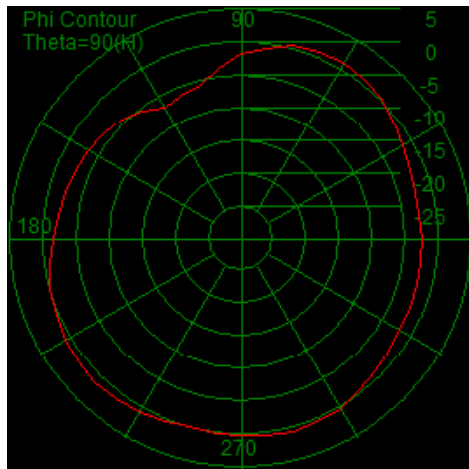
2450MHz



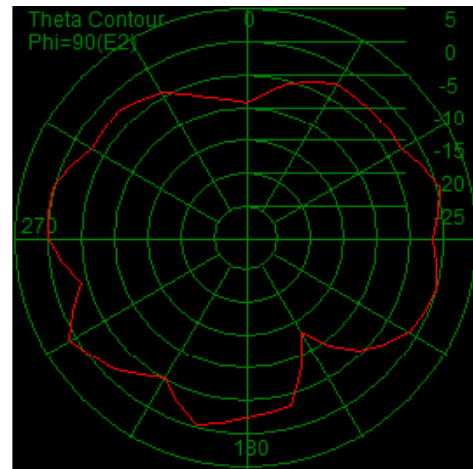
Patten

1.3 2D Radiation patterns test results (Passive Antenna)

XZ Plane

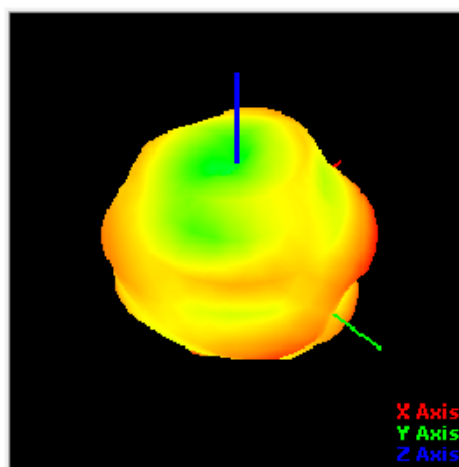


YZ Plane



1.5 3D Radiation patterns test results (Passive Antenna)

3D



2500MHz



Test Efficiency

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	2.22	68.2%
<u>2</u>	2410.0	2.52	70.7%
<u>3</u>	2420.0	2.12	72.9%
<u>4</u>	2430.0	2.53	71.8%
<u>5</u>	2440.0	2.99	73.9%
<u>6</u>	2450.0	2.94	72.8%
<u>7</u>	2460.0	2.55	71.0%
<u>8</u>	2470.0	2.64	72.3%
<u>9</u>	2480.0	2.74	73.9%
<u>10</u>	2490.0	2.63	70.9%
<u>11</u>	2500.0	2.74	67.2%