



GUANGDONG SLEING COMM-TECH CO., LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ REV _____ X1

SPECIFICATION 2.4-2.5GHz
BT Antenna L=43mm(Ø0.81+MHF) weight _____

SUP PART NO SLEingA248970045

DATE 2025.03.31

SUP APPROVED

APPROVED	Structure audit	RF CHECKED	QA CHECKED	DESIGNED

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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MODIFICATION RECORD SHEET

REV.	Modification date	Summary of modification content	Signature	Approval
X1	2025.03.31	First Issue	Jerry	Jongrei

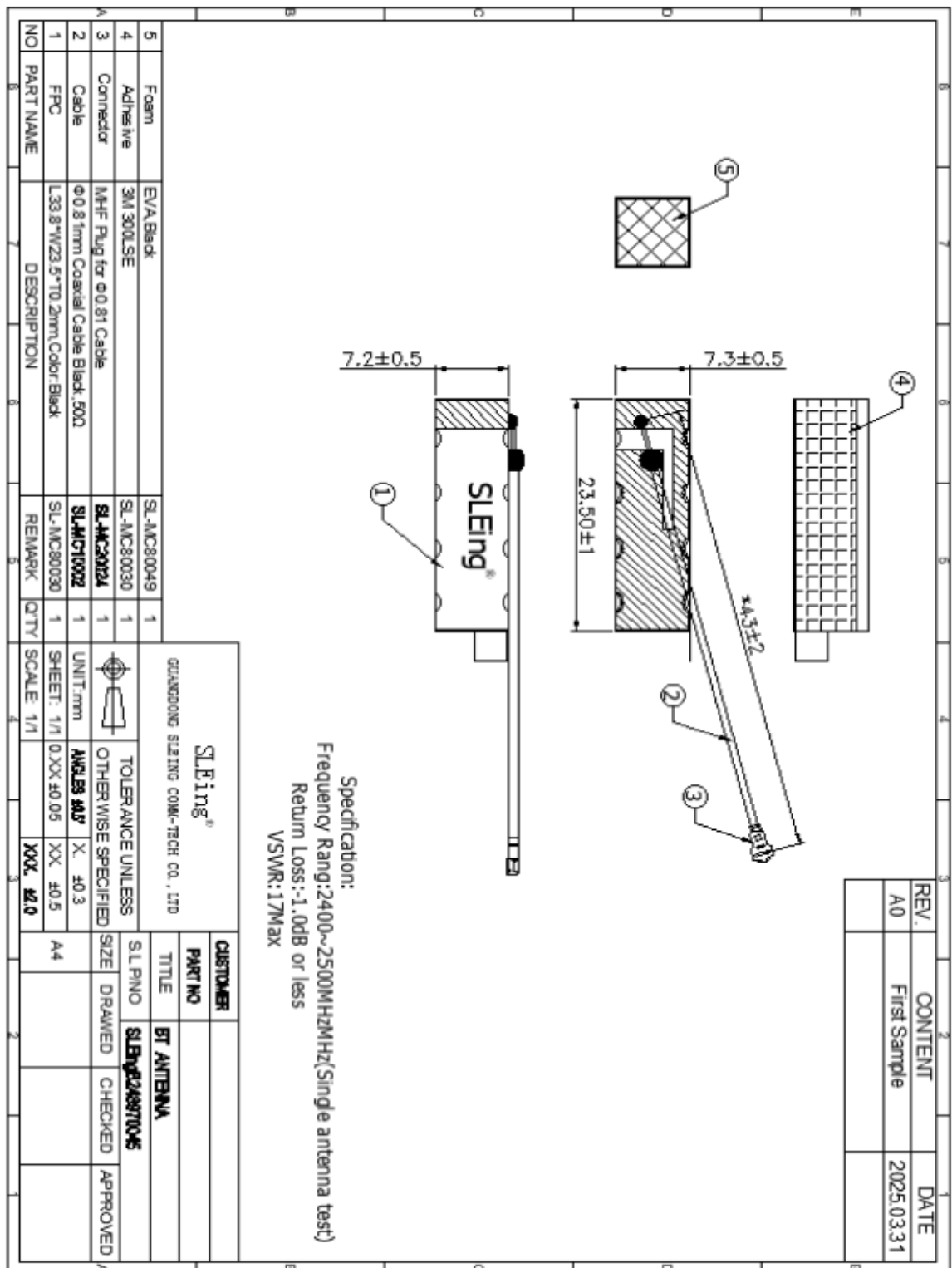
Spec Item

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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.

Drawing:



Test Reports

Electrical Properties	
Frequency	2400-2500 MHz (Single antenna test)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.7
Return Loss	-1.0dB Max
Radiation	Omni-directional
Gain (Peak)	-1 $\pm$ 1 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPC
Cable Type	$\Phi 0.81$ mm Black
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

Antenna assembly diagram

Device



Antenna

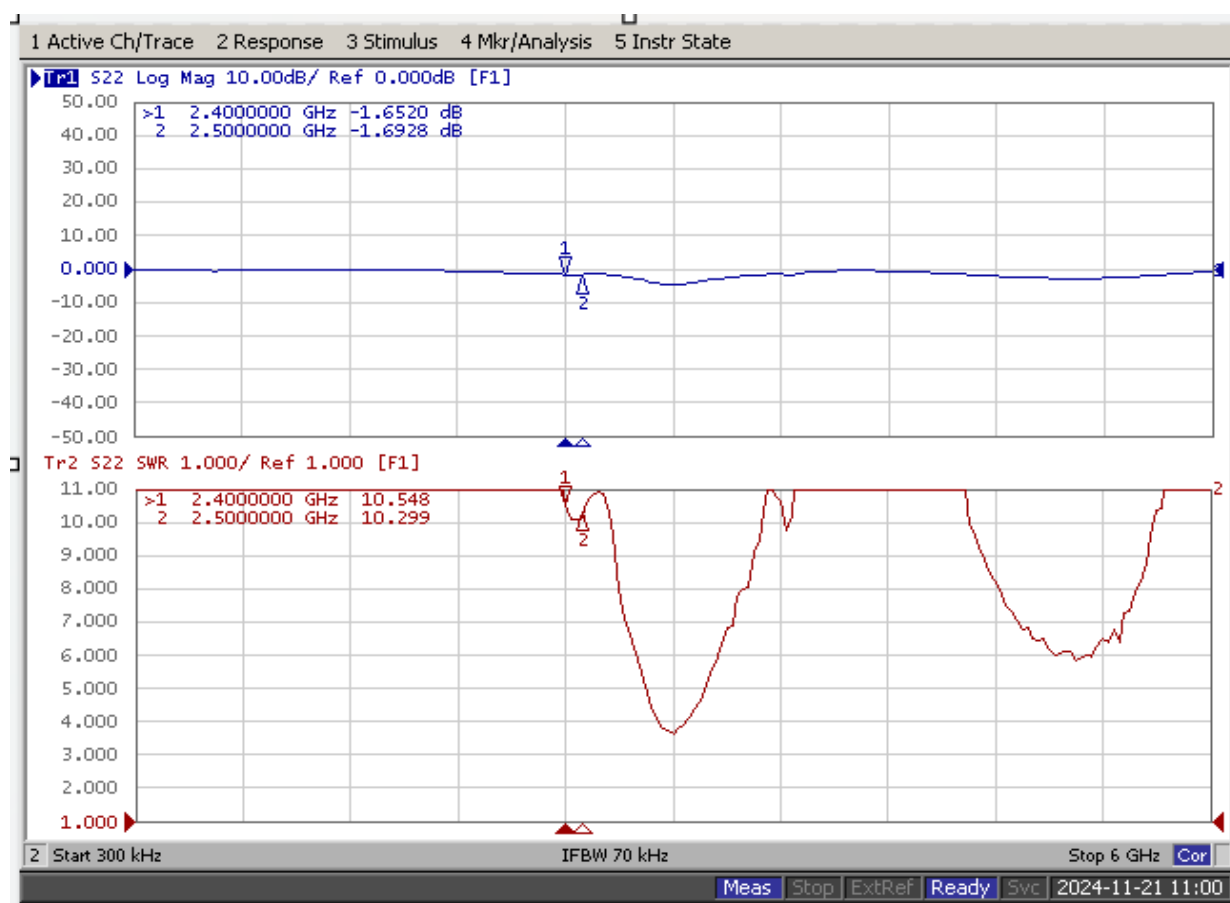


S Parameter Test

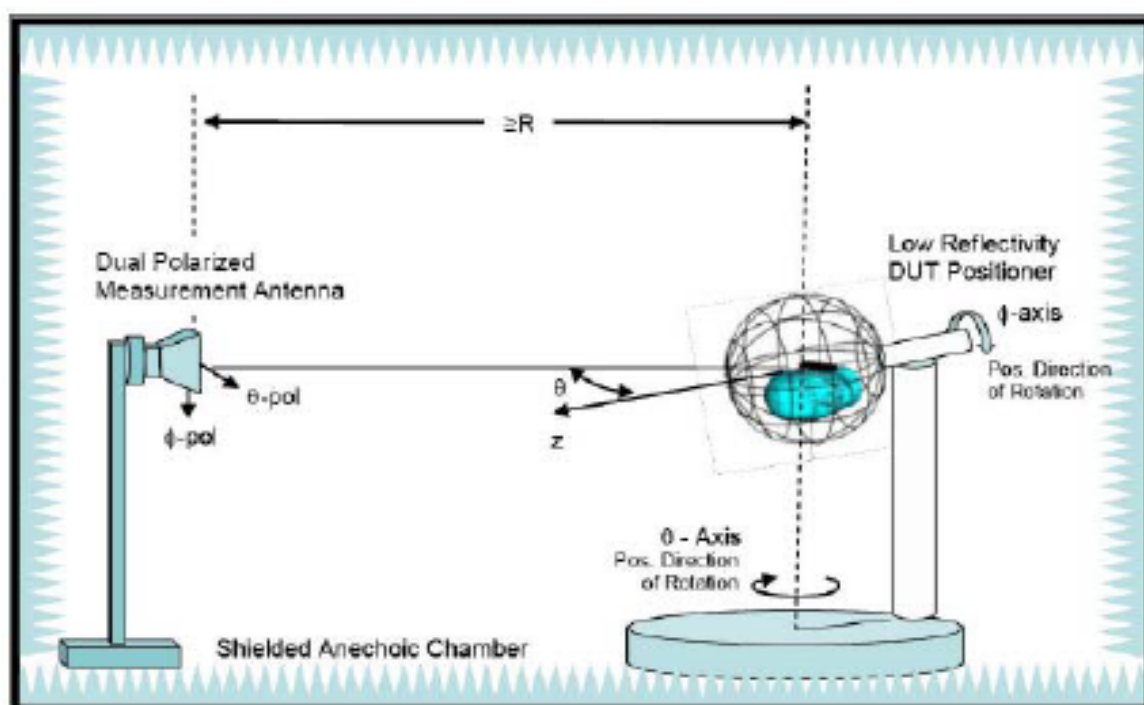
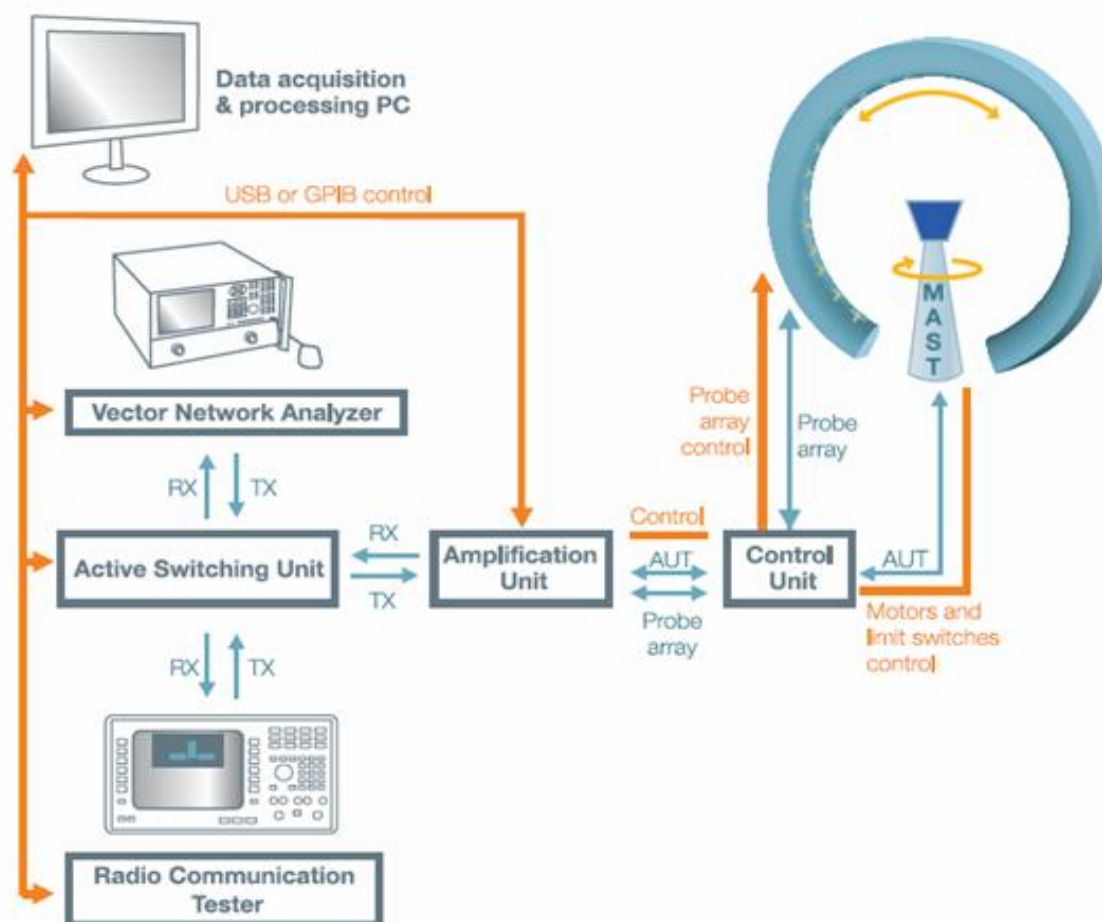
Agilent E5071C Network Analyzer



RF Antenna (VSWR/Return Loss)



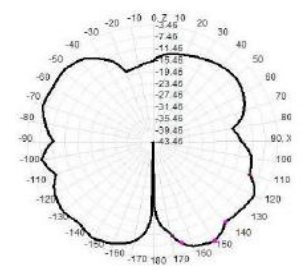
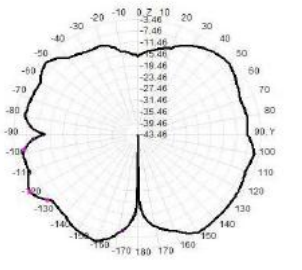
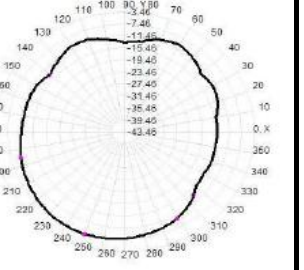
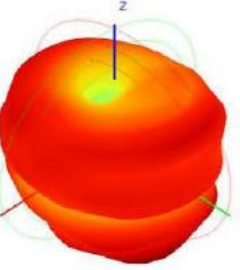
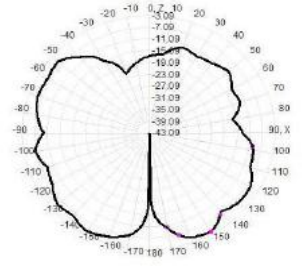
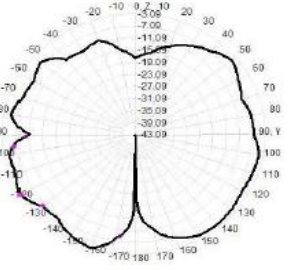
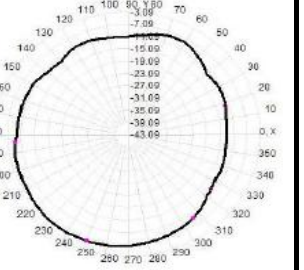
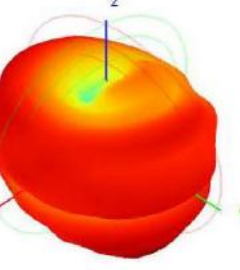
Test Setup



Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-1.67	-1.89	-1.75	-1.48	-1.61	-1.70	-1.85	-1.56	-1.27	-0.83	-0.52
Efficiency (%)	18.71	18.09	18.57	19.52	19.60	20.14	21.02	21.68	21.93	22.96	23.06

Pattern

	XoZ	YoZ	XoY	3D
2400				
2450				
2500	