SLEing® DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ 版次: REV X2

SPECIFICATION RF Antenna(Black)2.4-2.5GHz (SMA) 单重: weight _____

SUP PART NO SLEingA100800028-C01

DATE 2024.02.18

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED
Jongrei	Jerry	LSY	Jerry

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

DONGGUAN SLEing INTEL-TECH CO.,LTD

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DONGGUAN SLEing INTEL-TECH CO.,LTD

MODIFICATION RECORD SHEET

(REV.)	(Modification date)	Summary of modification content	Signature	Approval
X1	2024.02.18	First Issue	Jerry	Jongrei

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Spec Item

NO.	Project	Remark	Page
1	Spec Cover		1
2	MODIFICATION RECORD SHEET		2
3	Spec Item		3
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7	Test Setup		8
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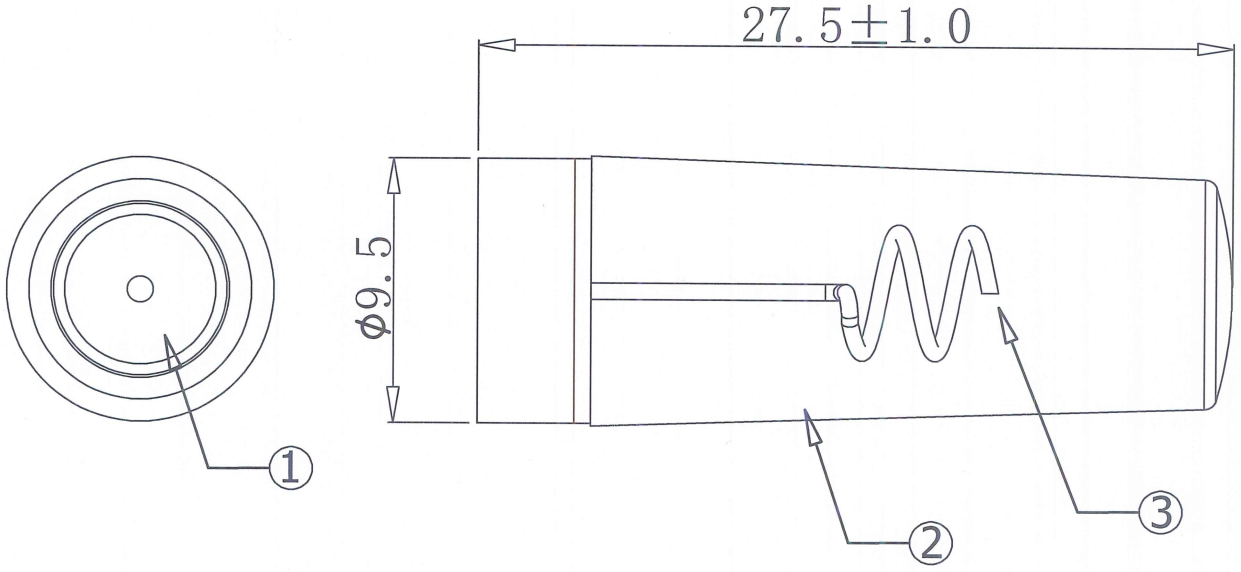
Give clear indication of:
1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
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	2024.01.08
X2	Update the antenna internal spring	2024.01.20



Specification:
Frequency Rang:2.4~2.5GHz
Return Loss:-8dB or less
VSWR:2.3 Max

NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Spring	OD05.0*00.6*L14.8mm		1
2	Antenna Cap	TPE,Color:Black		1
1	Connector	SMA Straight Plug(Male head male needle)		1

SLEing®
DONGGUAN SLEing INTEL-TECH CO.,LTD

UNIT:mm
SHEET: 1/1
SCALE: 1/1

TOLERANCE UNLESS OTHERWISE SPECIFIED
ANGLES ±0.5°
.XX ±0.05
X. ±0.3
XX. ±0.5
XXX. ±2.0

CUSTOMER	
PART NO	
TITLE	WIFI Antenna
S.L P/N	SLEingAT00800028-C01

SIZE	DRAWED	CHECKED	APPROVED
A4	Jerry	Jerry	

2024.02.18

DONGGUAN SLEing INTEL-TECH CO.,LTD

Test Reports

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.3Max
Return Loss	-8dB Max
Radiation	Omni-directional
Gain(Peak)	3.64dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	SMA
Physical Properties	
Antenna Material	TPE
Antenna Color	Black
Operating Temp	-25℃-+75℃
Storage Temp.	-25℃-+75℃

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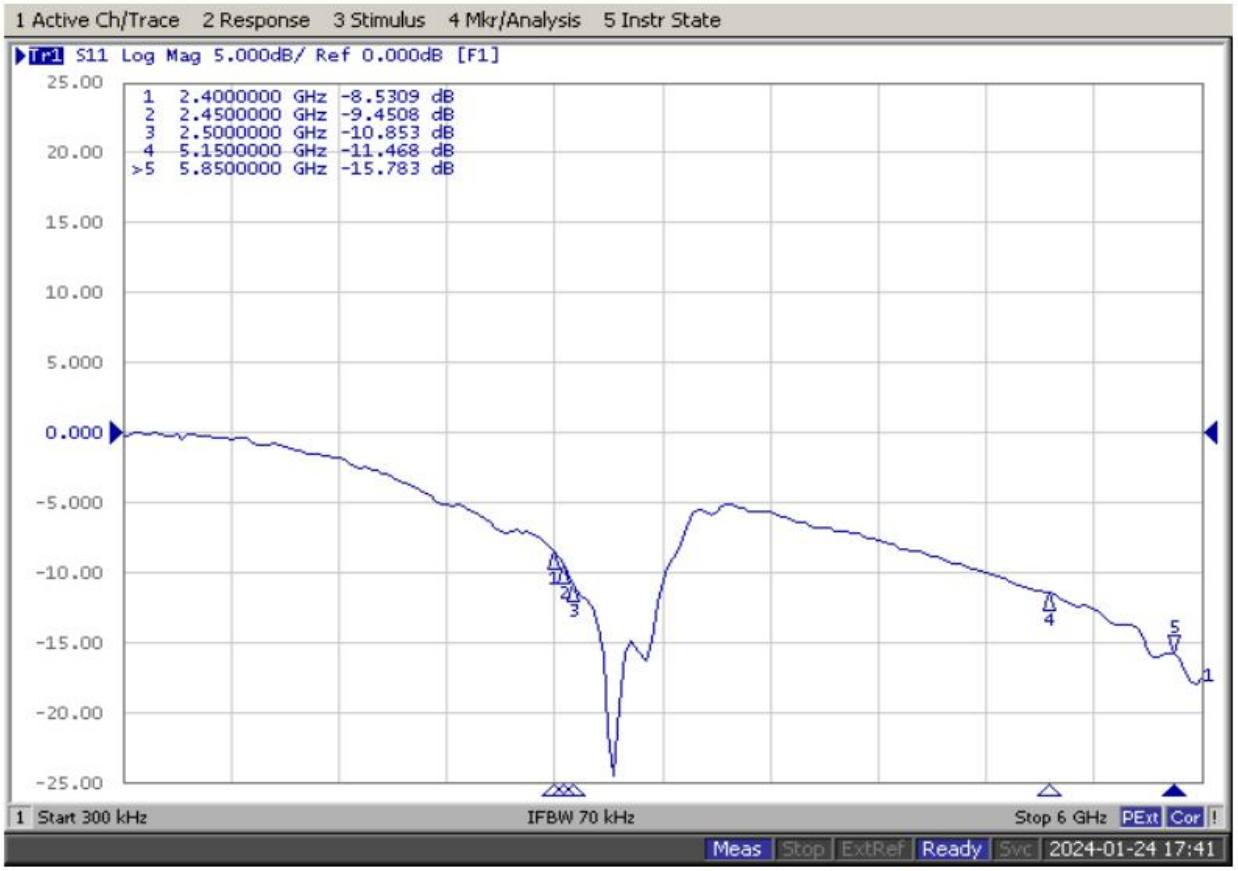
S Parameter Test

Agilent E5071C Network Analyzer	
RF Antenna(Return Loss)	



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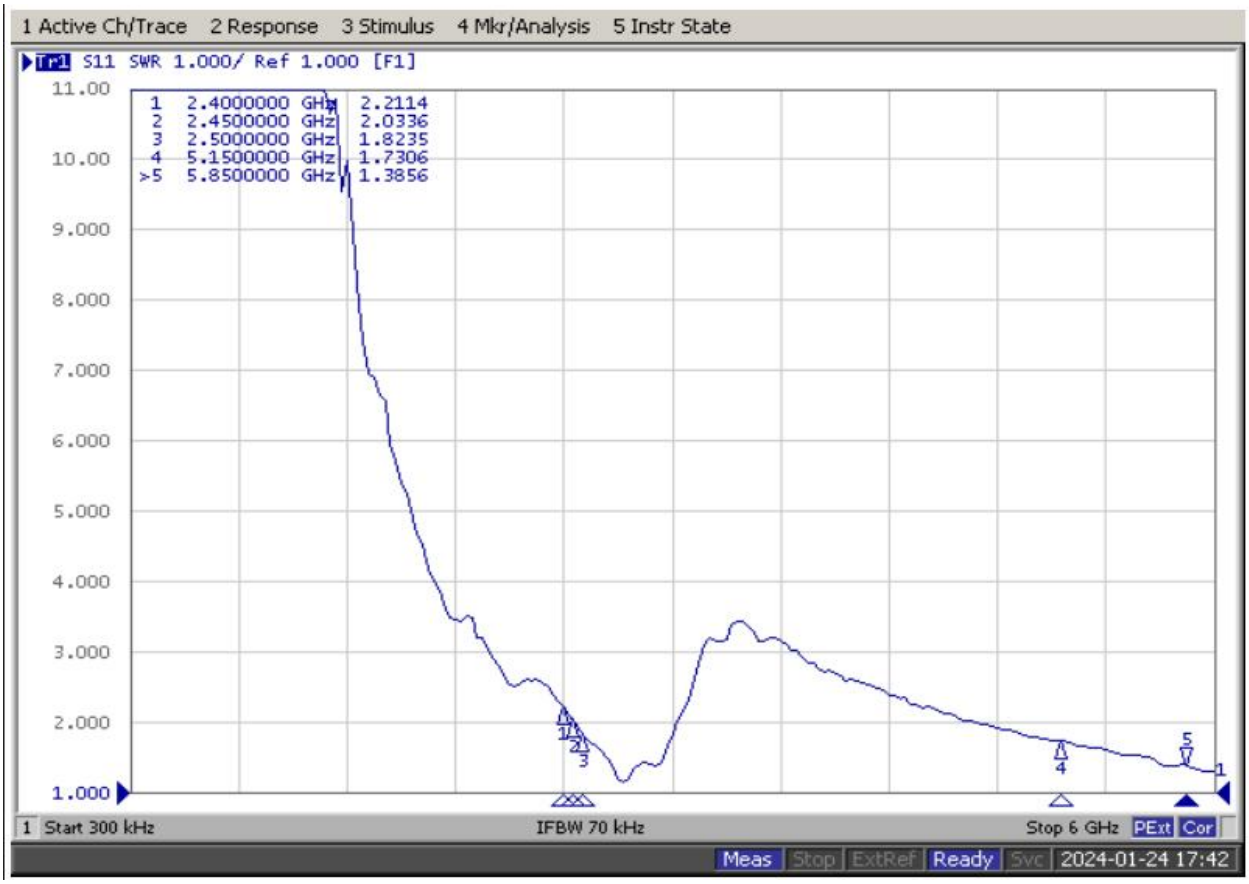
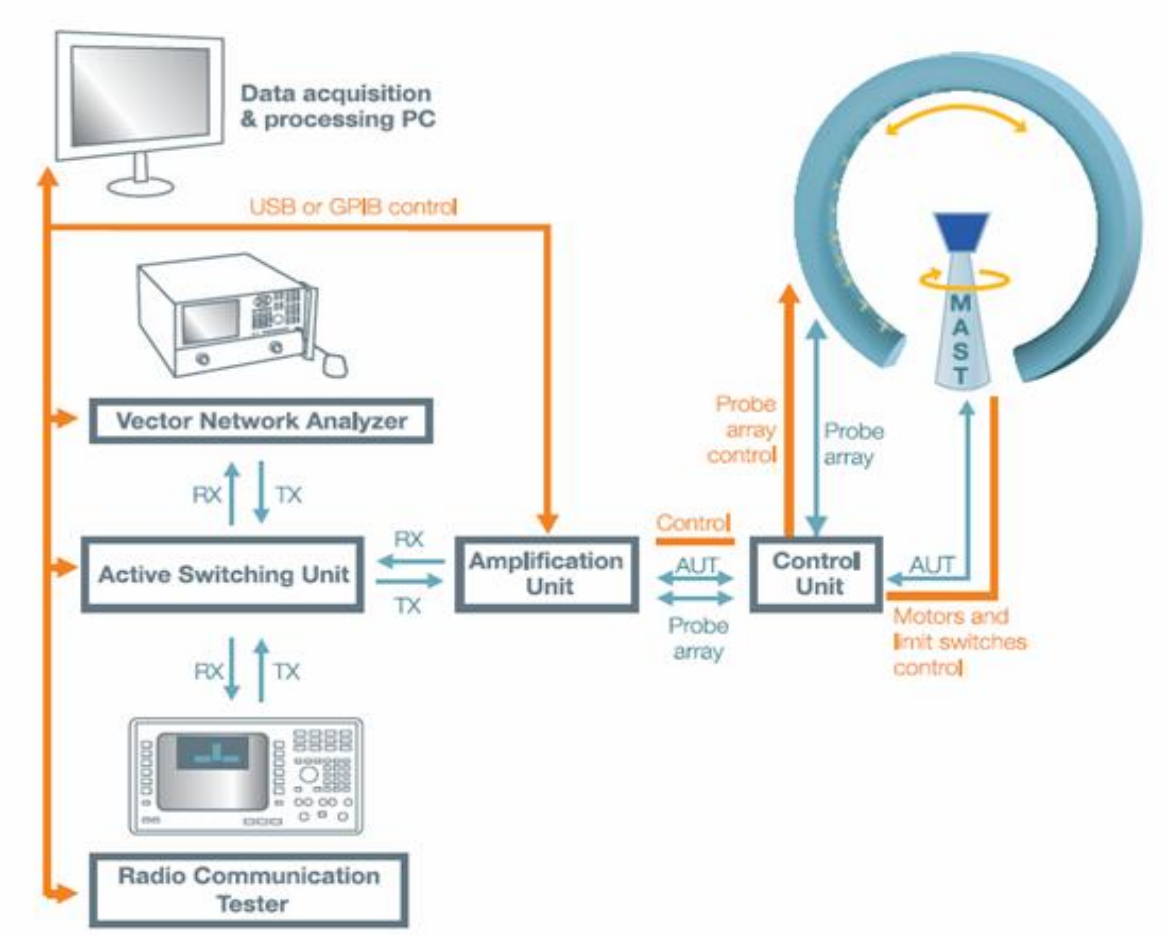
S Parameter Test

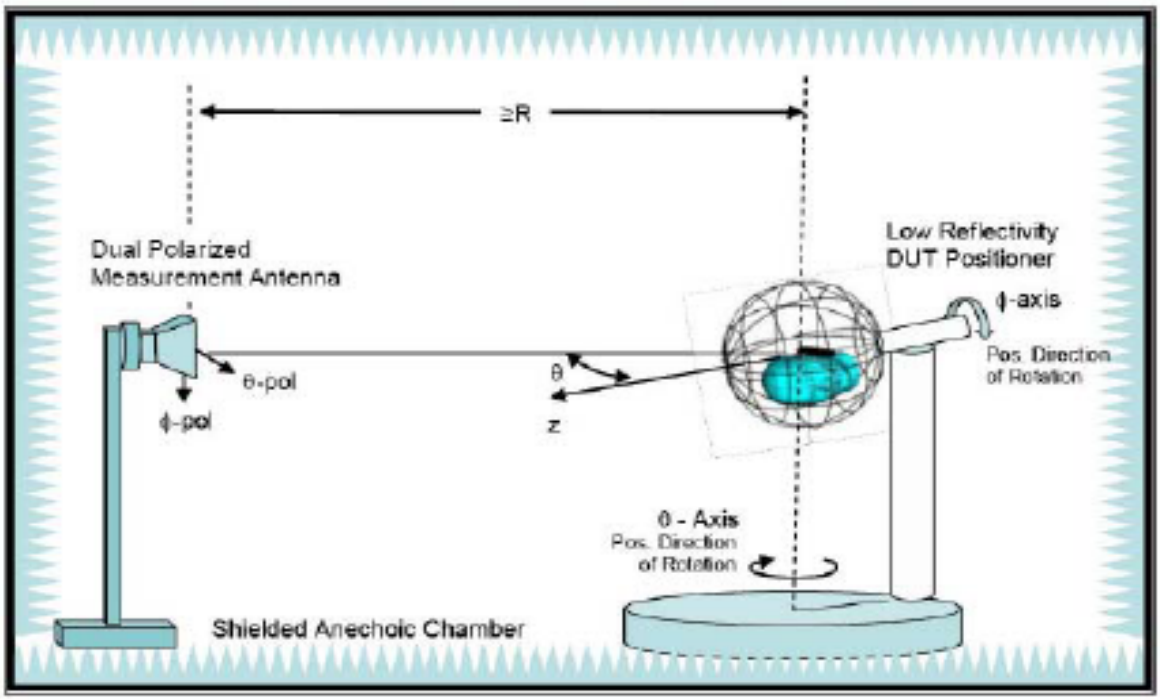
Agilent E5071C Network Analyzer	

RF Antenna(VSWR)



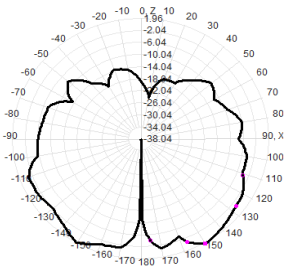
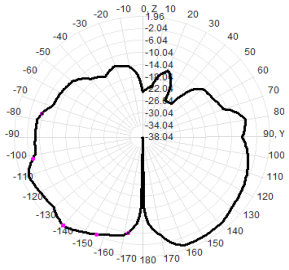
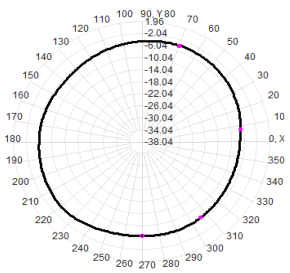
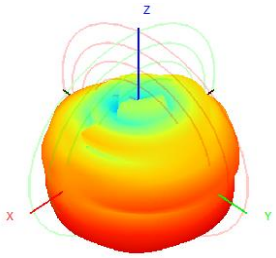
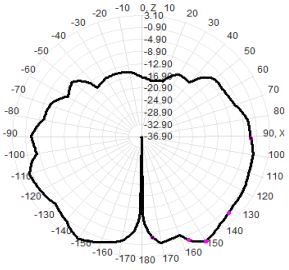
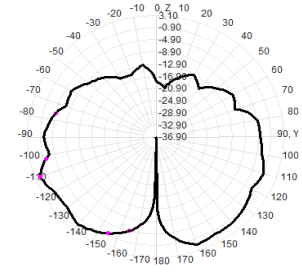
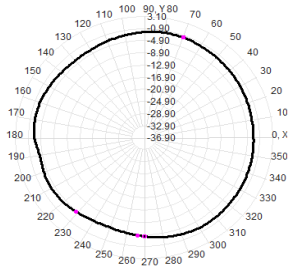
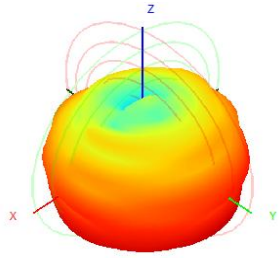
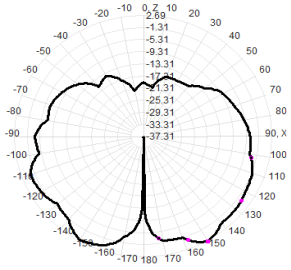
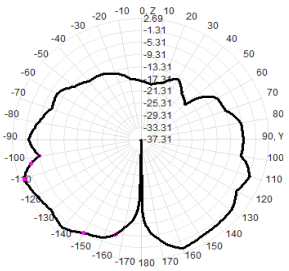
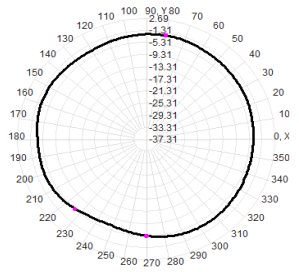
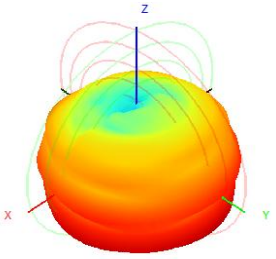
Test Setup


Data acquisition & processing PC
USB or GPIB control
Vector Network Analyzer
RX
TX
Active Switching Unit
RX
TX
Amplification Unit
Control
AUT
Probe array
Control Unit
AUT
Probe array control
Probe array
MAST
Motors and limit switches control
RX
TX
Radio Communication Tester


≥R
Dual Polarized Measurement Antenna
θ-pol
ϕ-pol
θ
z
Low Reflectivity DUT Positioner
ϕ-axis
Pos. Direction of Rotation
θ - Axis
Pos. Direction of Rotation
Shielded Anechoic Chamber

DONGGUAN SLEing INTEL-TECH CO.,LTD

Patten

	XoY	XoZ	YoZ	3D
2400				
2450				
2500				

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)	2.60	3.28	3.14	3.25	3.40	3.38	3.64	3.34	3.39	2.81	3.02
Efficiency (%)	39.01	42.77	45.28	47.08	49.97	49.69	48.70	47.59	46.71	44.41	46.00