DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ REV X1

SPECIFICATION 2.4~2.5/5.15~5.85GHz WIFI Antenna L=190mm(Ø1.13 +MHF) weight _____

SUP PART NO SLEingB243310190-C01

DATE 2024.01.19

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

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DONGGUAN SLEing INTEL-TECH CO.,LTD

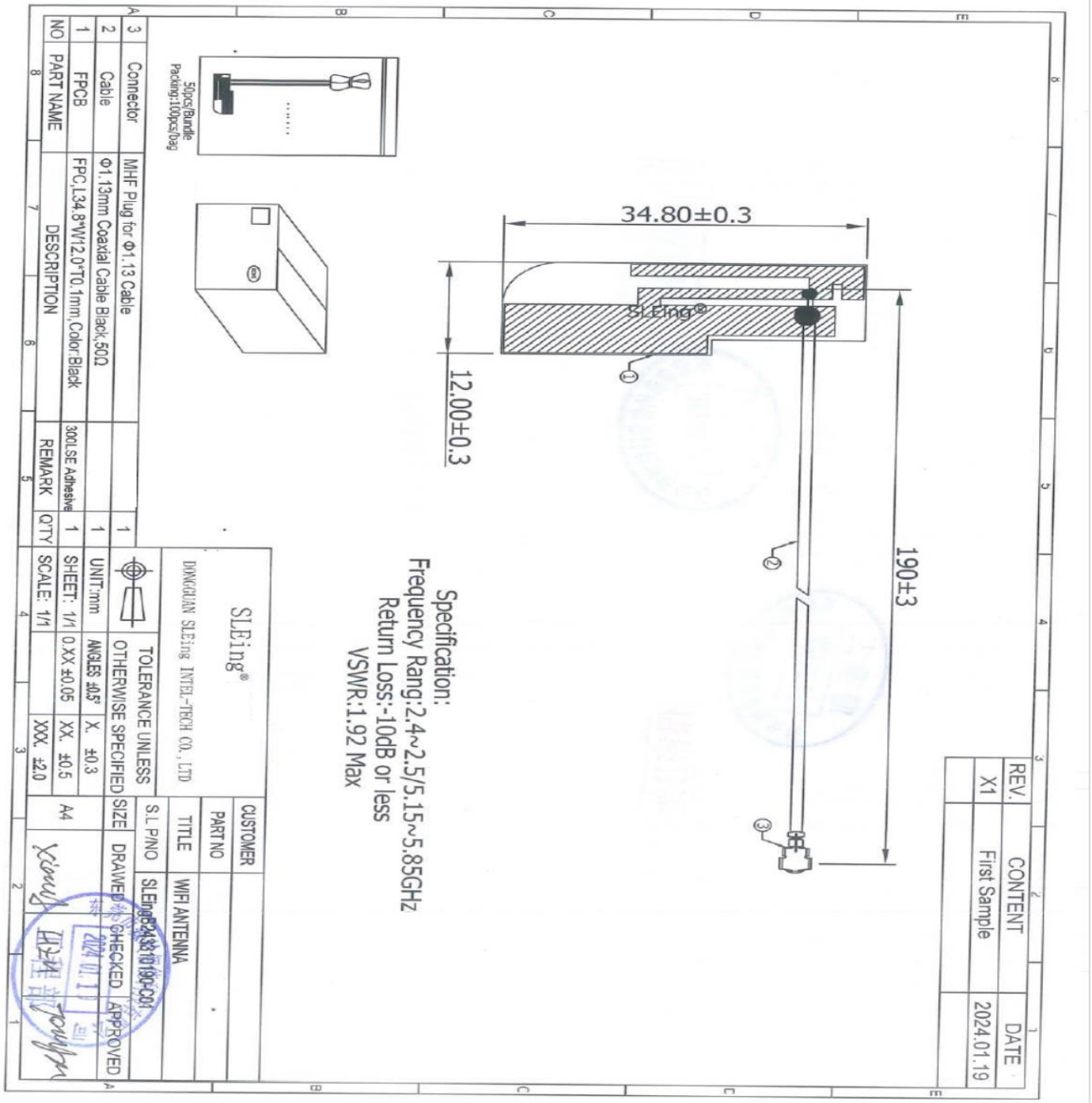
MODIFICATION

RECORD SHEET

REV.	Modification date	Summary of modification content	Signature	Approval
X1	2024.01.19	First Issue	Jerry	Jongrei

Spec Item

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.

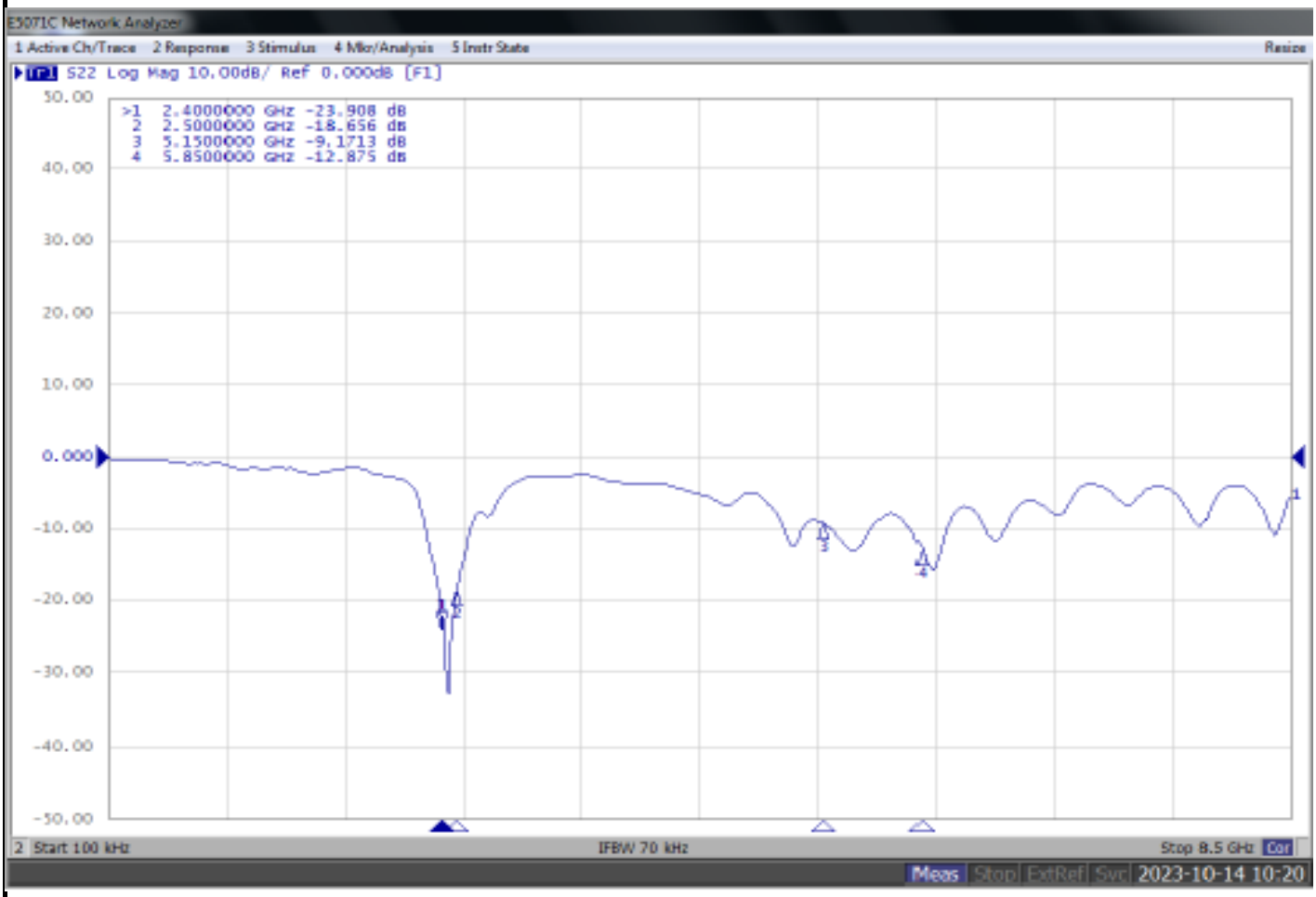

34.80±0.3
12.00±0.3
190±3
SLEing®
Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max
50pcs/Bundle
Packing:100pcs/bag
REV.
CONTENT
DATE
X1
First Sample
2024.01.19
NO
PART NAME
DESCRIPTION
REMARK
QTY
3
Connector
MHF Plug for Φ1.13 Cable
1
2
Cable
Φ1.13mm Coaxial Cable Black,50Ω
1
1
FPCB
FPC:L34.8*W12.0*T0.1mm,Color:Black
300LSE Adhesive
1
SCALE: 1/1
SHEET: 1/1
UNIT:mm
TOLERANCE UNLESS
OTHERWISE SPECIFIED
ANGLES ±0.5°
X. ±0.3
0.XX ±0.05
XX. ±0.5
XXX. ±2.0
SLEing®
DONGGUAN SLEing INTEL-TECH CO., LTD
CUSTOMER
PART NO
TITLE
WIFI ANTENNA
S.L P/NO
SLEing
SIZE
A4
DRAWED
CHECKED
APPROVED

Test Reports

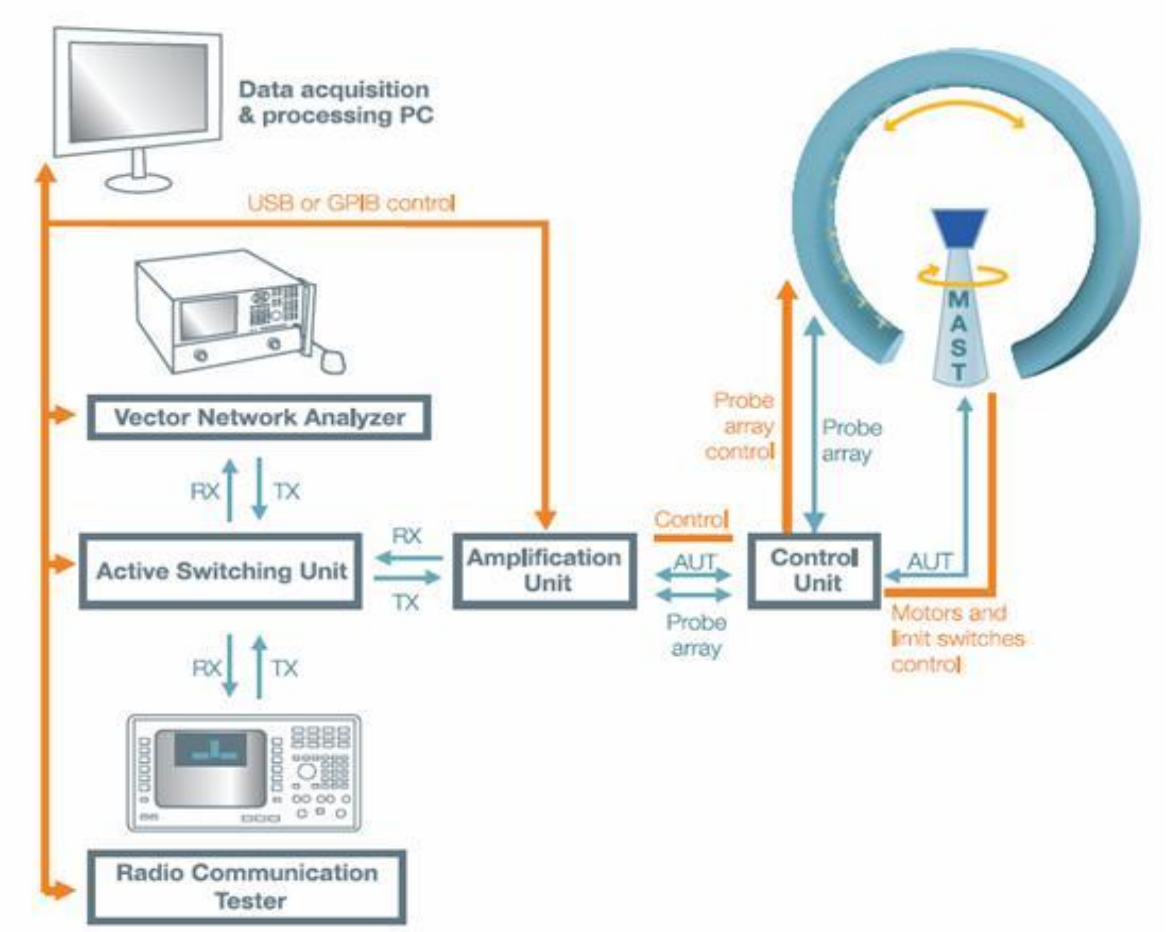
Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤1.92
Return Loss	-10dB Max
Radiation	Omni-directional
2.4G Gain (Peak)	2.43 dBi
5G Gain (Peak)	4.91 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	Φ1.13mm Black
Operating Temp	-40℃~+85℃
Storage Temp.	-5℃~+30℃

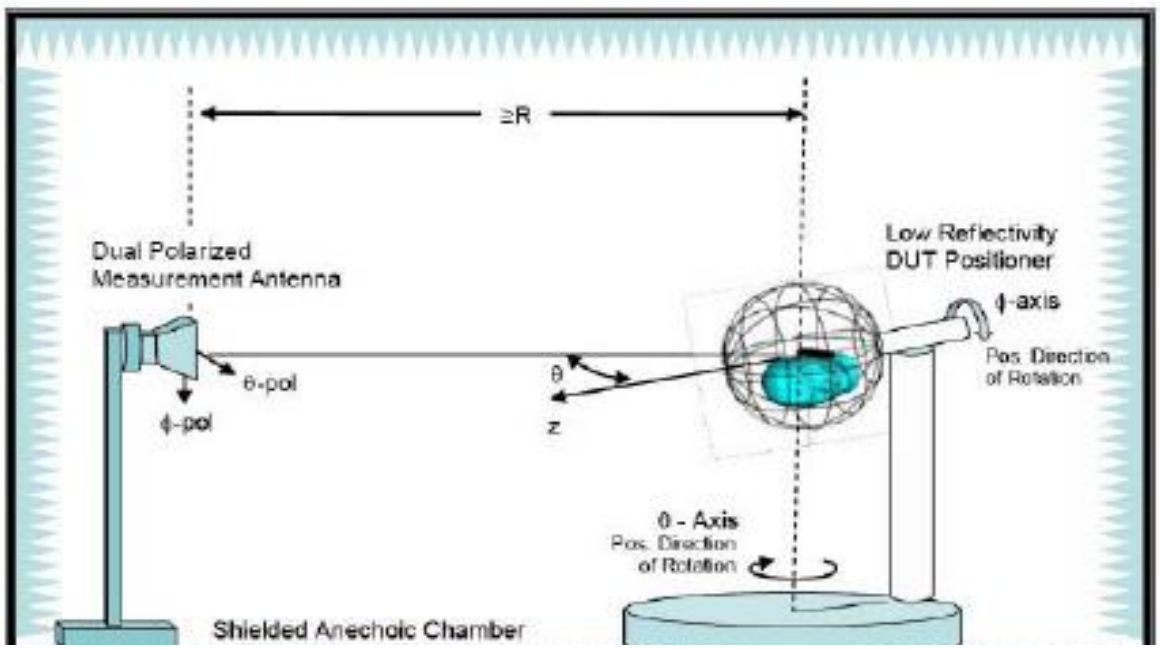
S Parameter Test

Agilent E5071C Network Analyzer	
RF Antenna(Return Loss)	

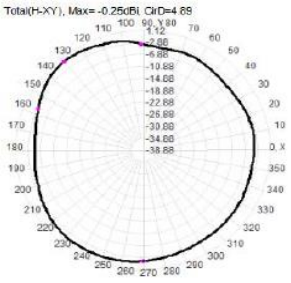
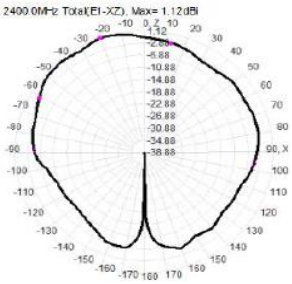
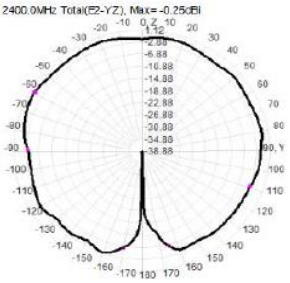
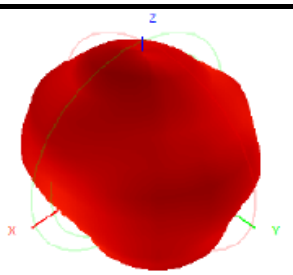
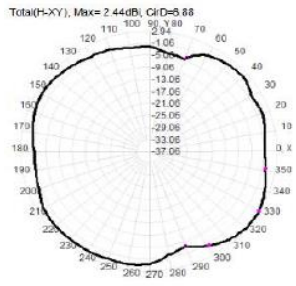
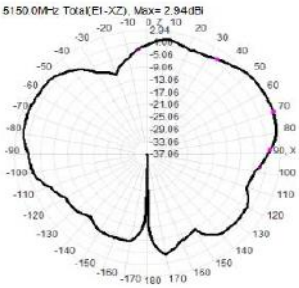
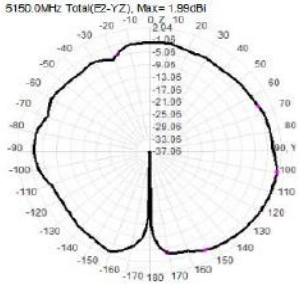
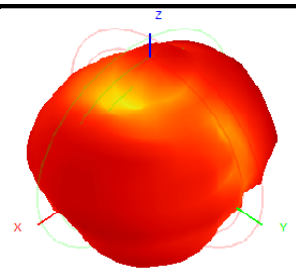


Test Setup


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
Probe array control
Probe array
AUT
Motors and limit switches control
MAST
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

Patten

	XoY	XoZ	YoZ	3D
2400				
5150				

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)	1.12	1.35	1.44	1.31	1.68	1.99	2.43	2.40	2.33	2.21	2.43				
Efficiency (%)	52.08	54.05	56.00	57.16	60.65	62.19	61.73	63.95	63.66	62.19	63.95				
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	2.94	4.16	4.28	4.48	4.26	4.66	4.91	4.85	4.64	4.33	4.54	4.55	4.48	4.75	4.60
Efficiency (%)	70.87	73.02	86.40	78.31	79.12	73.45	73.02	72.96	72.91	75.12	74.57	72.96	73.50	73.28	63.50