

Product Specifications for Approval

Customer Name: Sales Coordinator

Antenna band: 2400–2500MHz

Edition: A0

Production date: 2023-3-22

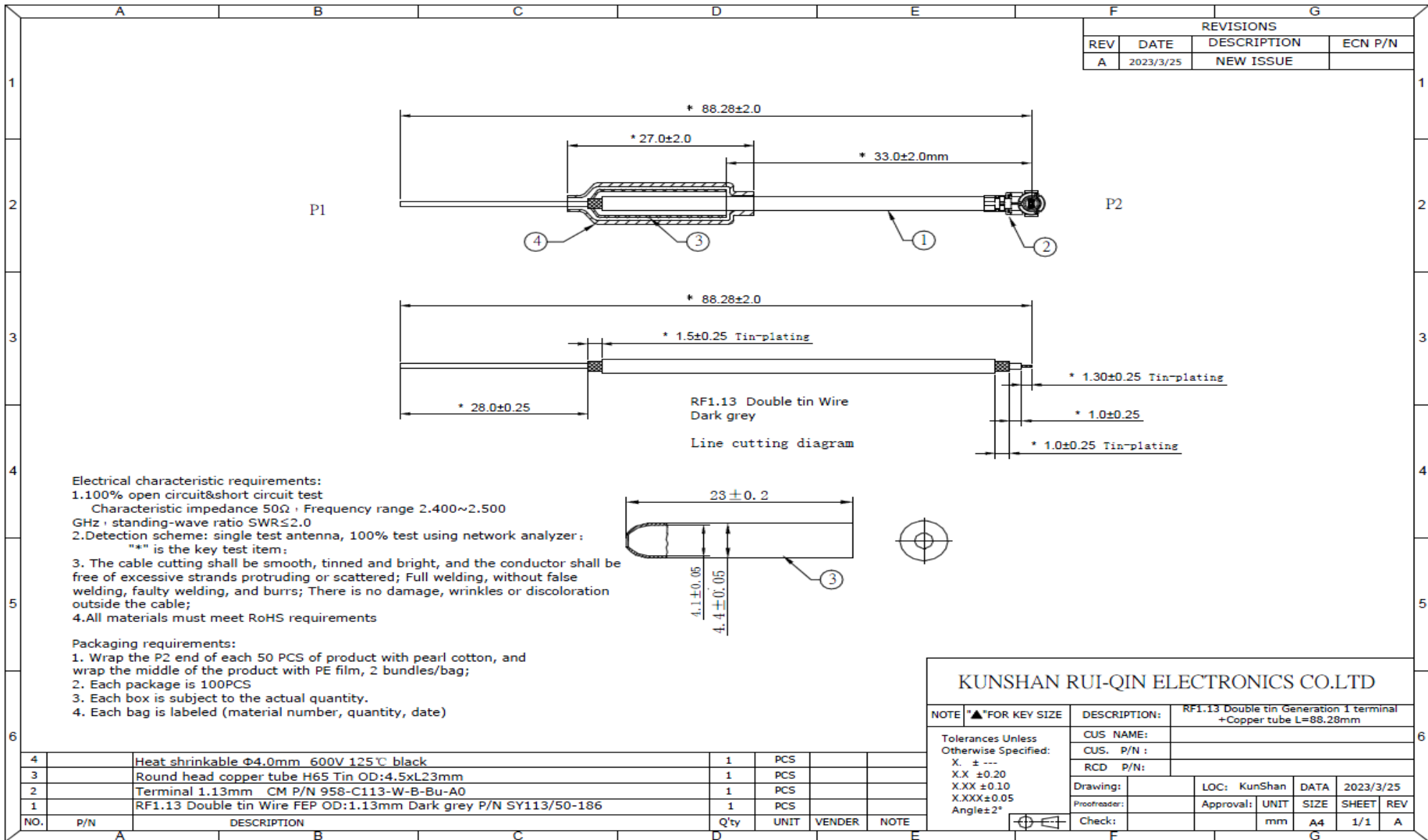
Number: 1.0236.88

Structure:	<u>Jack.Peng</u>	Radio frequency:	<u>Mike.Li</u>
Examine and verify:	<u>Tom.Qin</u>	Ratify:	<u>Tom.Qin</u>
Customer confirmation			
Customer review:		Customer Approval:	

Address: No. 39, Taoyuan Road, Zhangpu Town, Kunshan City, Jiangsu
Province

INDEX.

1)	Cover.....	1
2)	Contents.....	2
3)	2D Drawings.....	3
4)	Product specification parameters.....	4
5)	Active and passive waveform matching test report.....	5-9



Product characteristic specification table

1、 Basic product characteristics:

Product Type : Copper tube -WIFI-1.13IPEX -1.13wire-grey-L=90MM	
DESCRIPTION	VALUE
Frequency range	2400-2500MHz
Impedance	50Ω
V.S.W.R	Comparison sample waveform
Gain	2.84DBi
Radiation	Omni-directional
Polarization	linear Vertical
Admitted power	1W
Connector	IPEX CONN
Operating temp	-45℃~+85℃
Storage temp	-45℃~+85℃

1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement S :

A. Reflection coefficient:

(a) Instrument: Network Analyzer.

(b) Setup:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

(4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

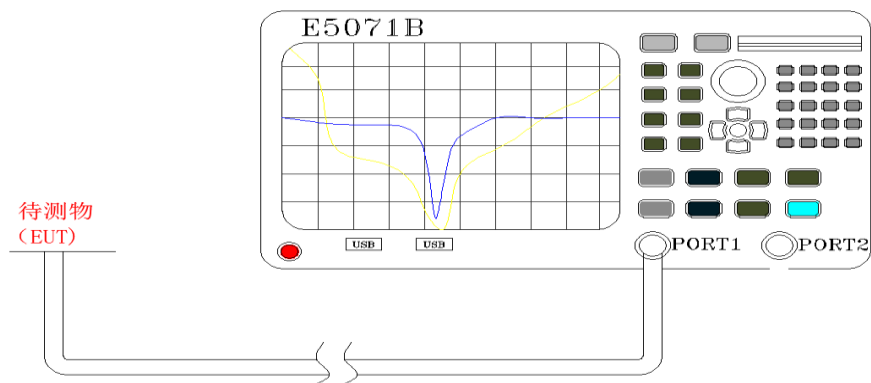


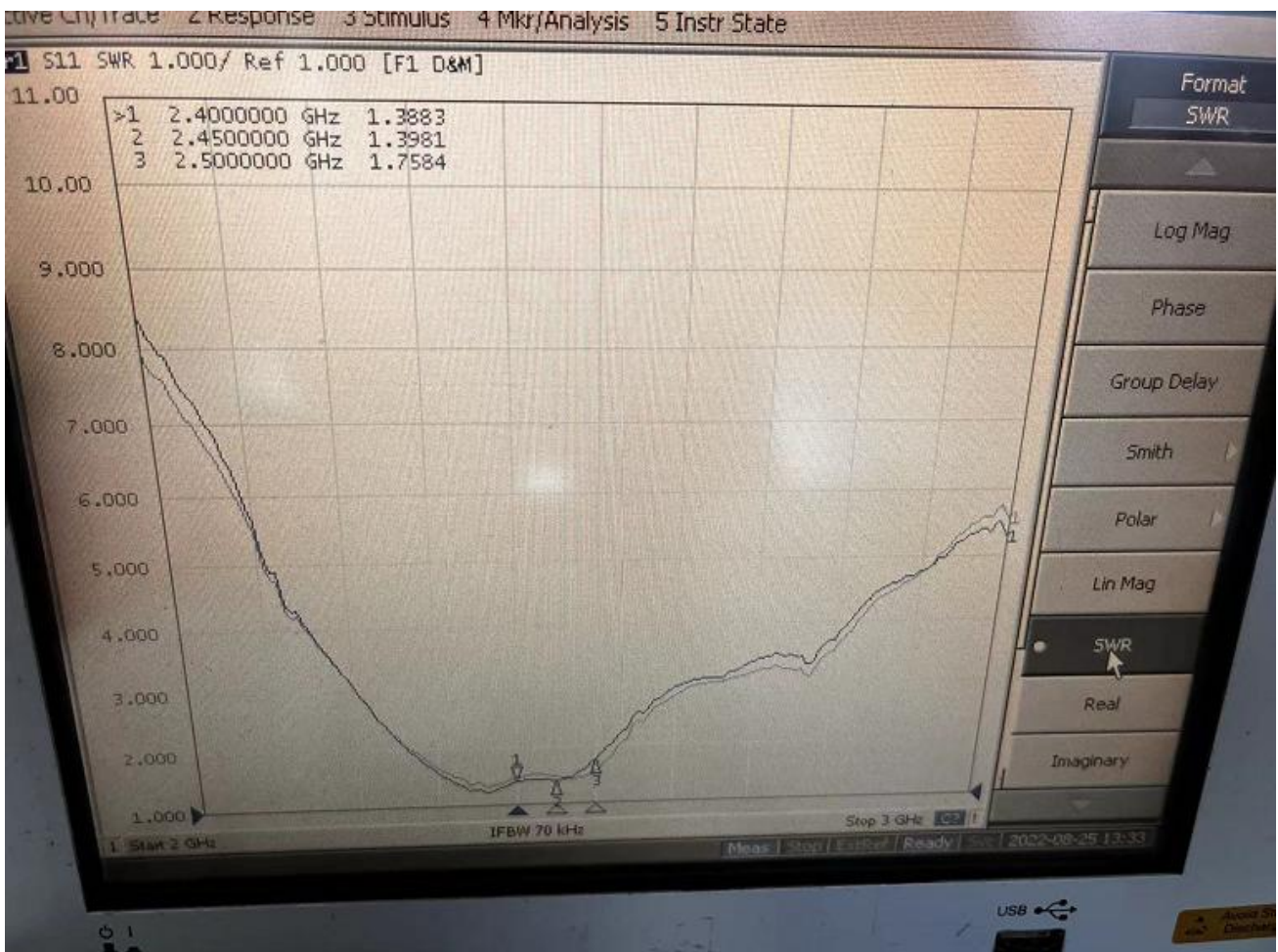
Fig.1 Antenna measured in Network Analyzer

3. S-Parameter Measurement Result S:

S-Parameter test data S:

Frequency MHz	2400	2450	2500
V.S.W.R	1.38	1.39	1.75

S-Parameter test image :

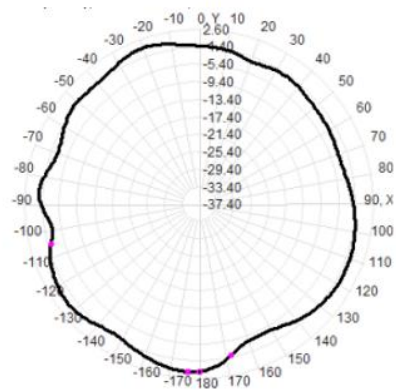
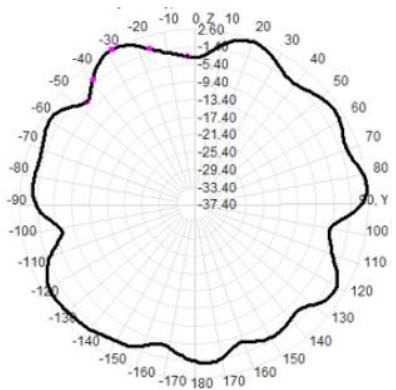
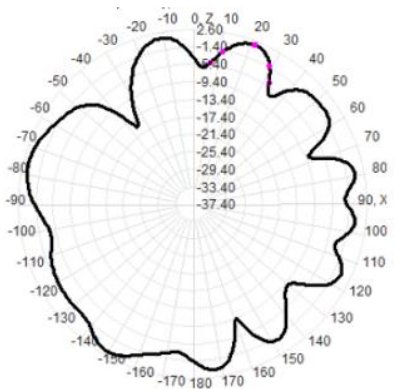
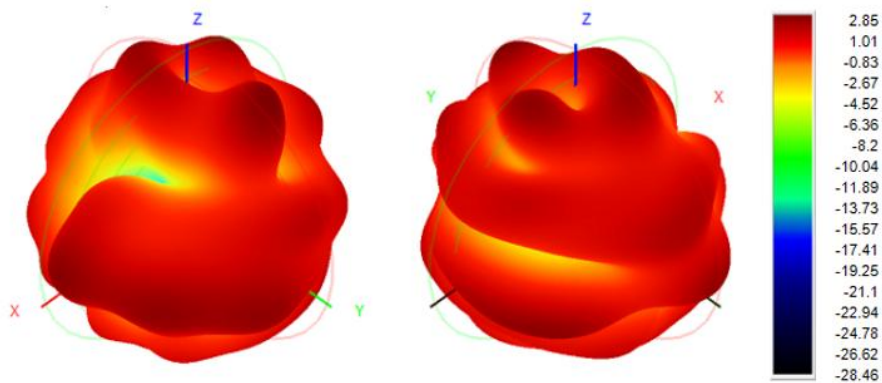


Passive value:

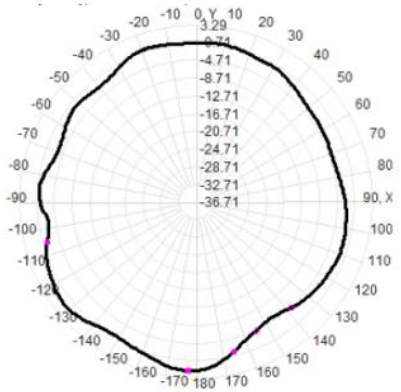
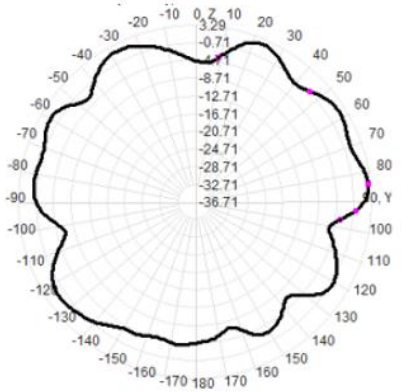
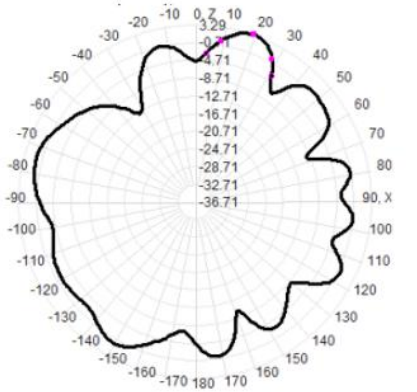
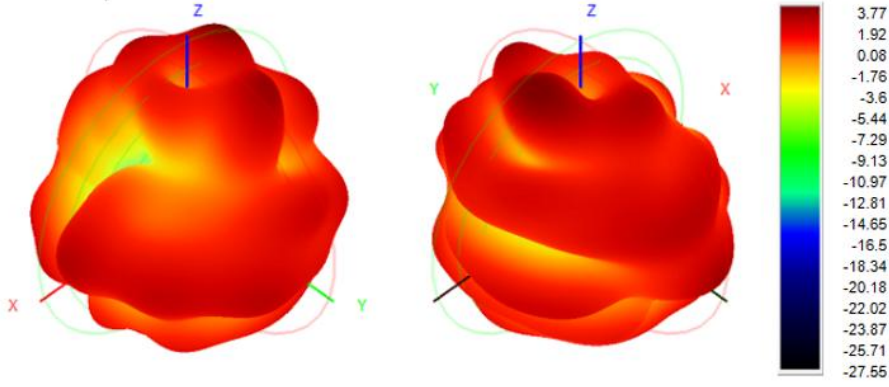
Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	70.73	2.45
2450	65.28	2.84
2500	64.23	2.71

2D、3D

2400MHz



2450MHz



2500MHz

