

acknowledgement

APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME:

External antenna/UB02C130W2Da55aA/2.4G/2dB/ generation IPEX
buckle/81.99*12*6mm/exposed wire length 130mm

CUSTOMER P/N: 1420300089

Youbi P/N: UB02C130W2Da55aA REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Lina	
APPROVED BY:	Yuefei. Zhu	
DATE:	2025-4-30	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2025-4-30

Content

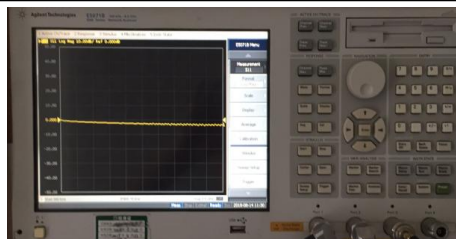
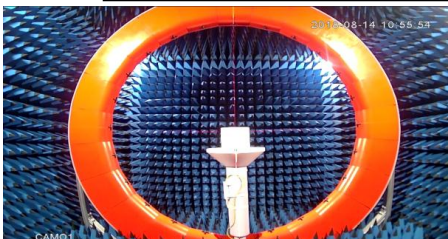
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	Ø7*81.99 L120	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	2.44	dBi
Efficiency	>60	%
Connector Type	MHF-1-Plug	
Operating temperature	-40°C~+80°C	
Storage Temp	-40°C~+80°C	

2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



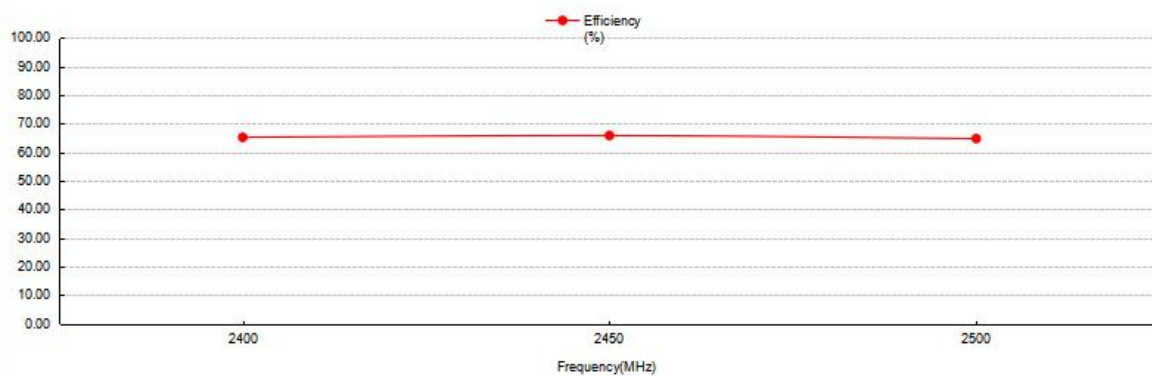
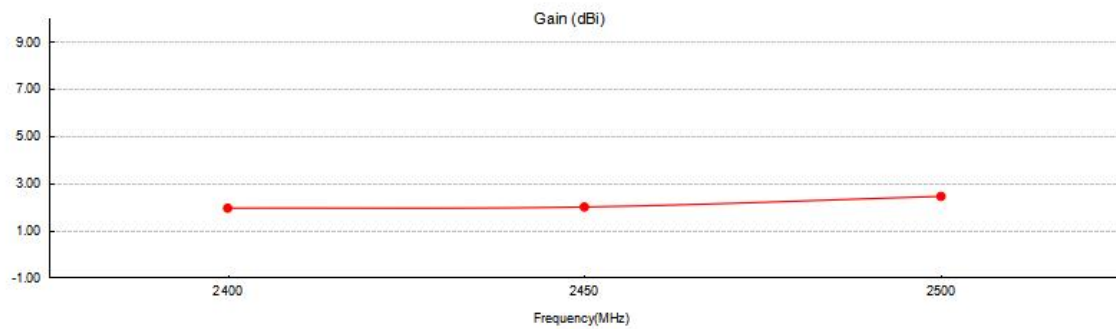
3.S Parameter

Frequency(MHz)	Return Loss(dB)
2400	-16.04
2500	-11.91



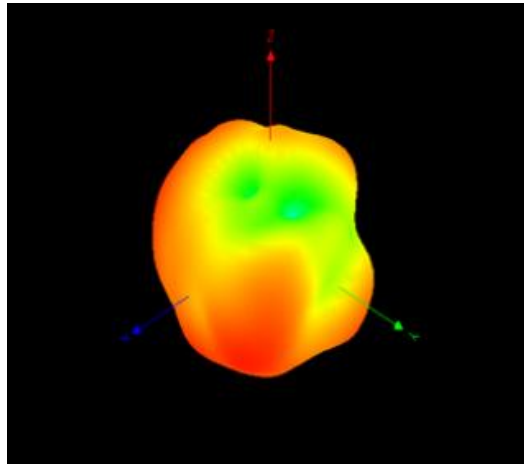
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	65.16	65.77	64.71
Gain (dBi)	1.94	1.99	2.44

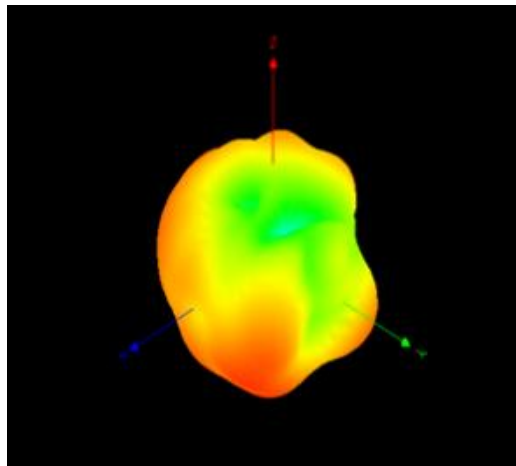


5. Radiation Pattern

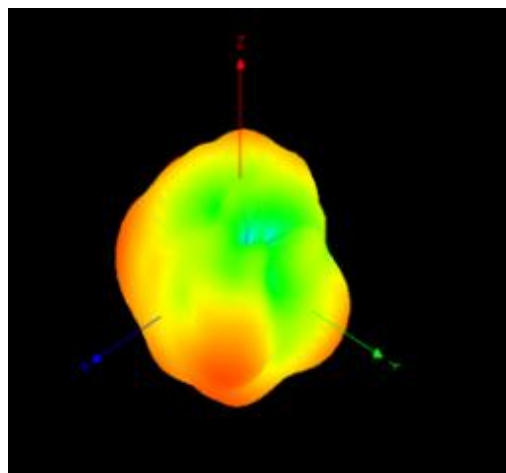
5-1 Antenna 3D Radiation Pattern



2400 MHz

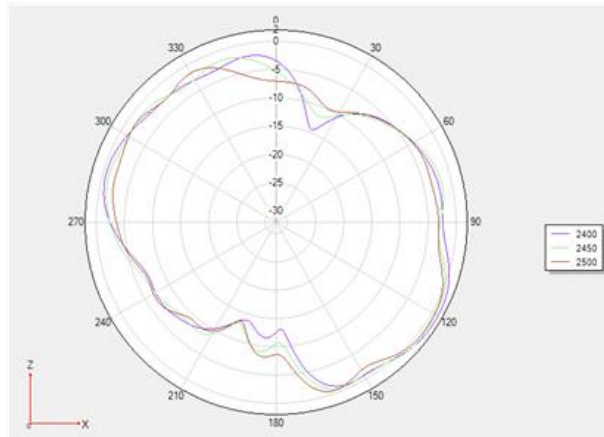


2450 MHz

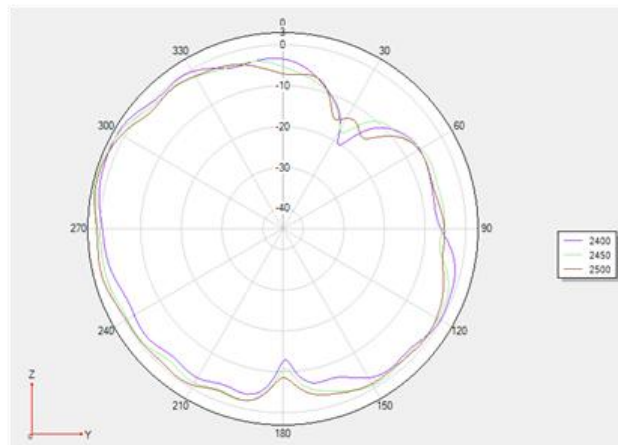


2500 MHz

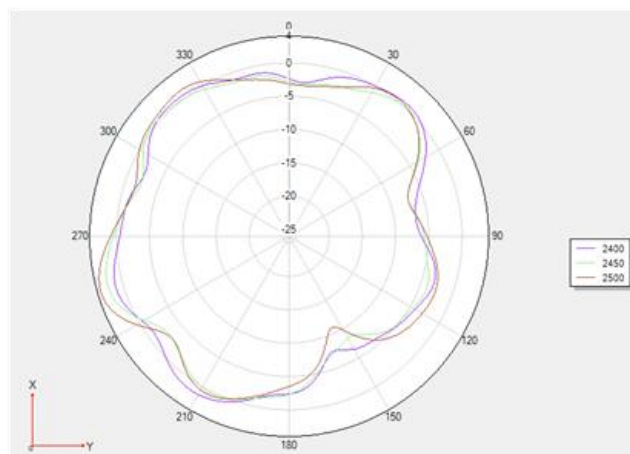
5-2 Antenna 2D Radiation Pattern



Phi 0



Phi 90



Theta 90

6. Mechanical Specification:

