

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G W71 白色天线 L=120mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C120W3D4916A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing.Liu	
DATE:	2024/1/29	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-1-29

Content

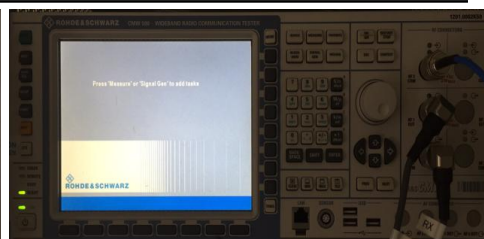
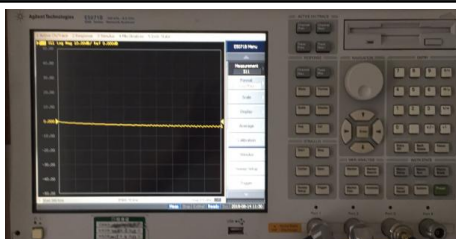
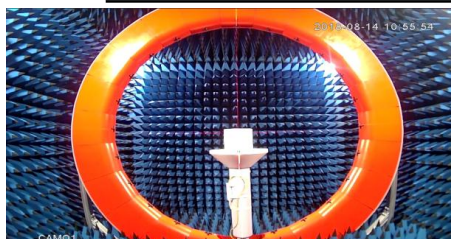
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification
7.-----	Packaging

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.9x104.9,L120	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	3.0 $\pm$ 0.5	dBi
Efficiency	>50	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-40 $^{\circ}$ C~+65 $^{\circ}$ 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



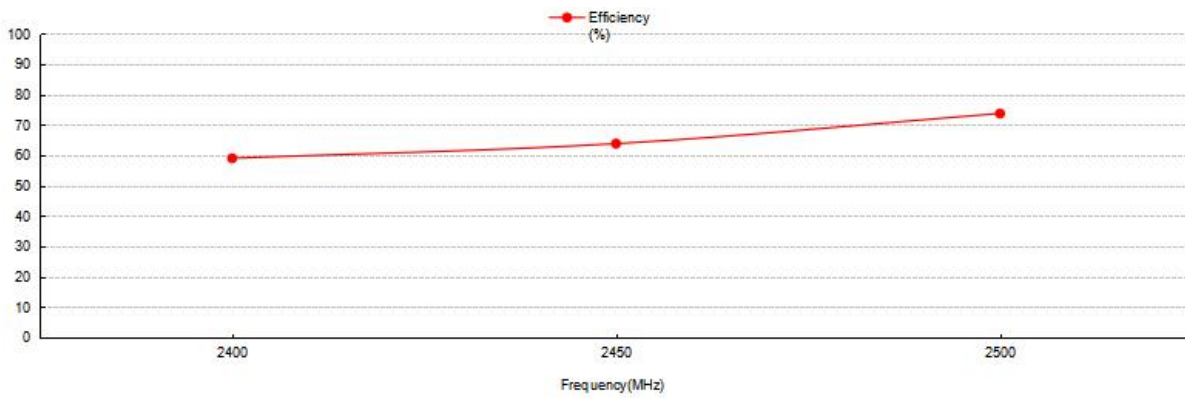
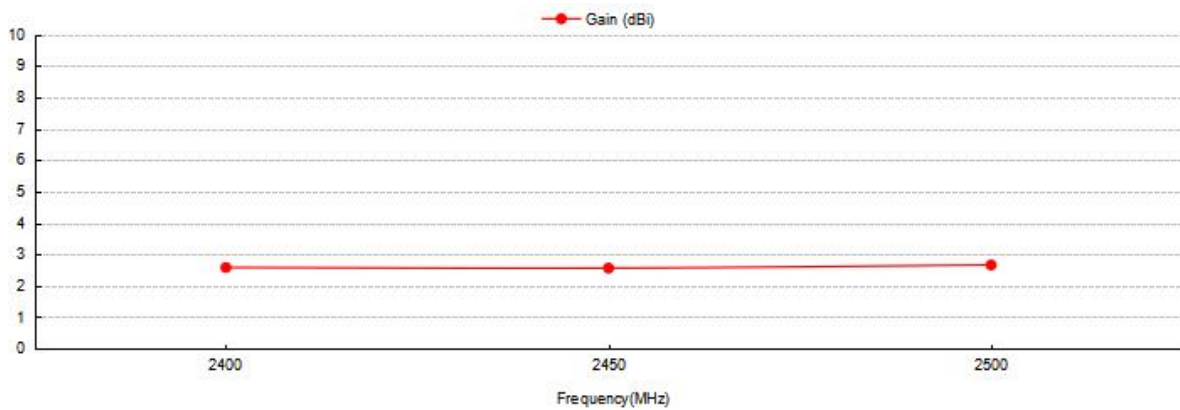
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-12	1.67
2450	-16.57	1.34
2500	-34.03	1.04

* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

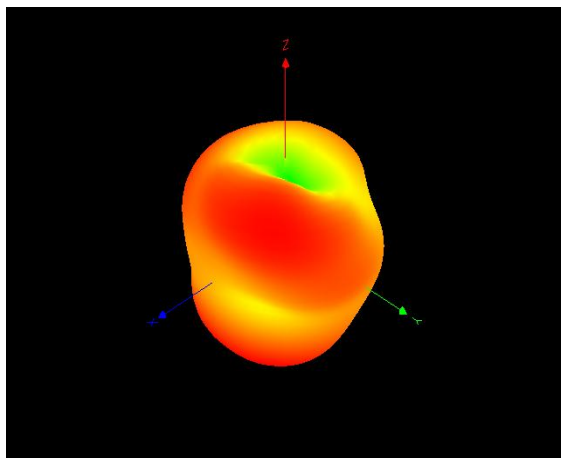
4. Efficiency and Gain



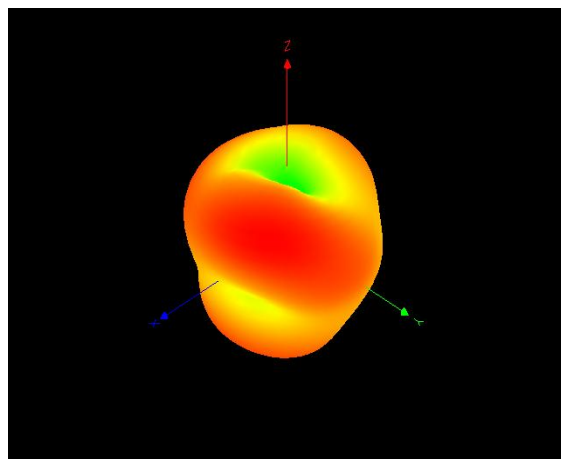
Frequency (MHz)	2400	2450	2500
Efficiency (%)	59.08	63.9	73.81
Gain (dBi)	2.58	2.56	2.66

5. Radiation Pattern

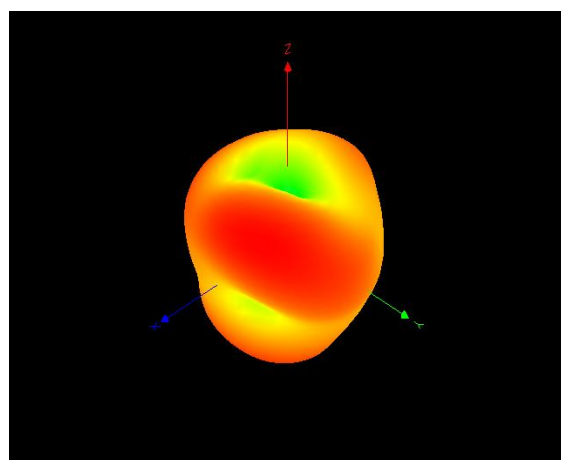
5-1 Antenna 3D Radiation Pattern



2400MHz

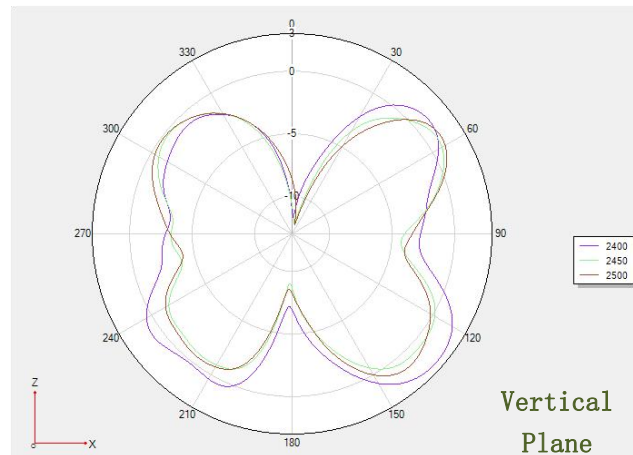


2450MHz

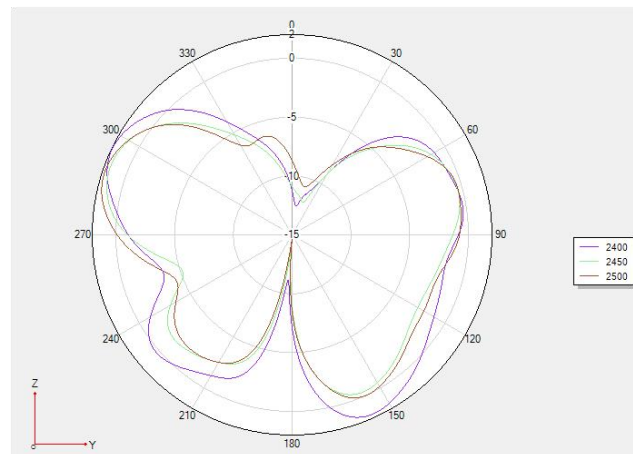


2500MHz

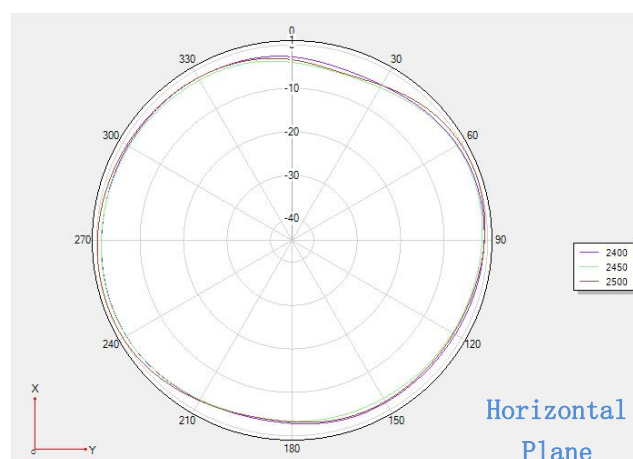
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

[illegible]

7. Packaging

