承　认　书

APPROVAL　SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT　NAME:　2.4G W72 白色天线 L=280mm+端子

客 户 料 号

CUSTOMER　P/N:

优比电子料号

Youbi　P/N:　UB02C280W3D2158A　REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Sam	
APPROVED BY:	Changxing.Liu	
DATE:	2022-10-27	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Sam	2022-10-27

Content

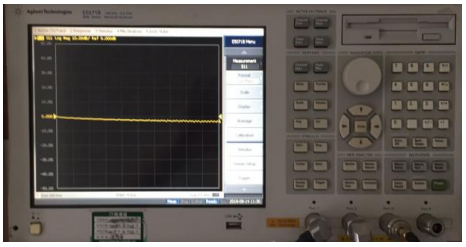
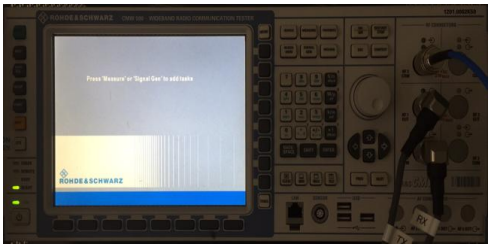
ltem ***Description***

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.92x105,L280	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤2.0	
Polarization	Linear Polarization	
Gain	2.5±0.5	dBi
Efficiency	>60	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+70℃	
Storage Temp	-20℃~+70℃	

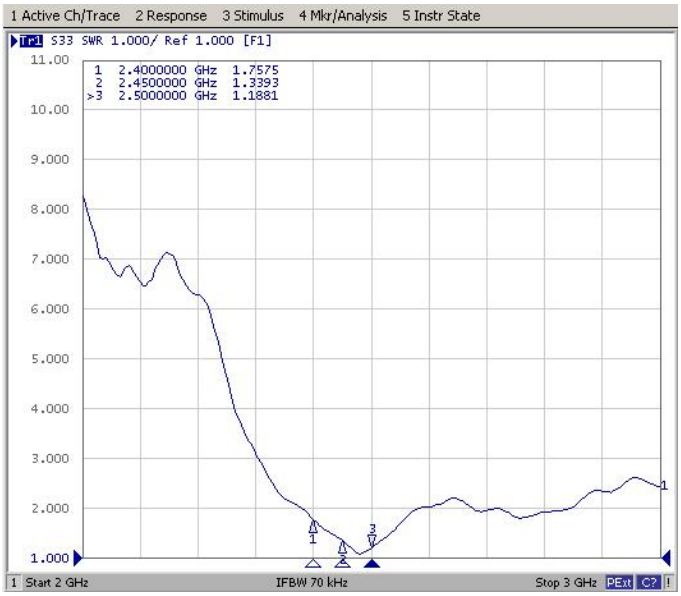
2.Test Items and Equipment

	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

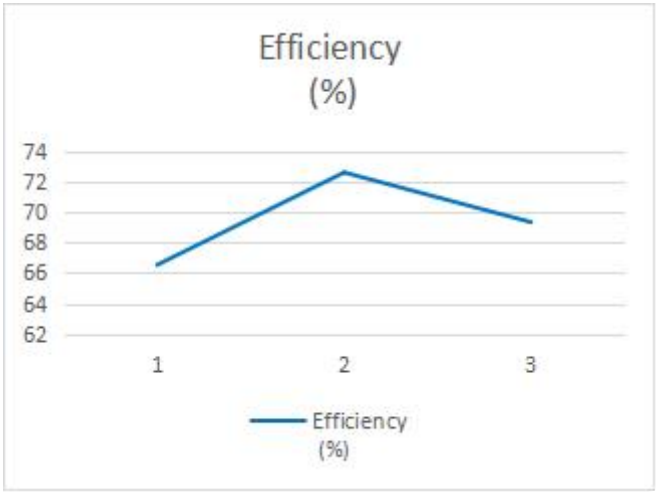
Frequency (MHz)	Return Loss (dB)	VSWR
2400	/	1.75
2450	/	1.33
2500	/	1.18

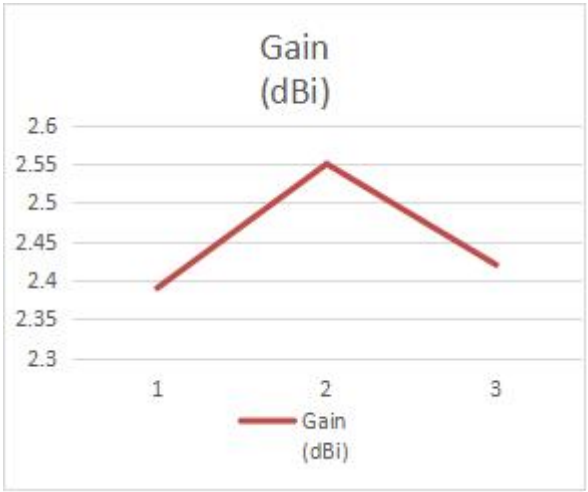


* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
RL=20*log10[(VSWR+1)/(VSWR-1)

4. Efficiency and Gain

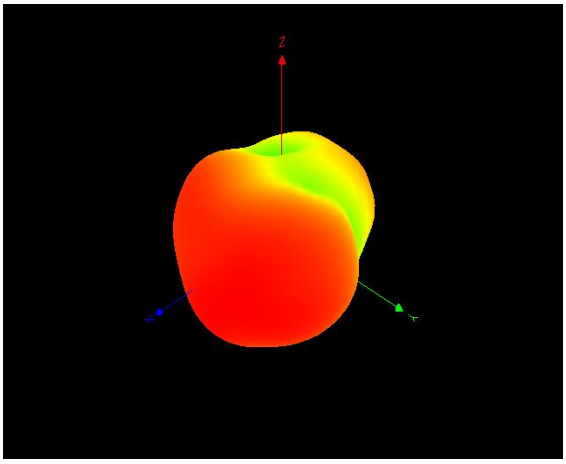
Frequency (MHz)	2400	2450	2500
Efficiency (%)	66.53	72.61	69.34
Gain (dBi)	2.39	2.55	2.42



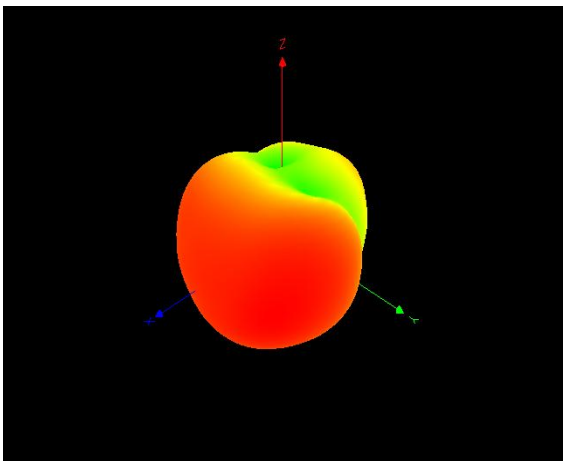


5. Radiation Pattern

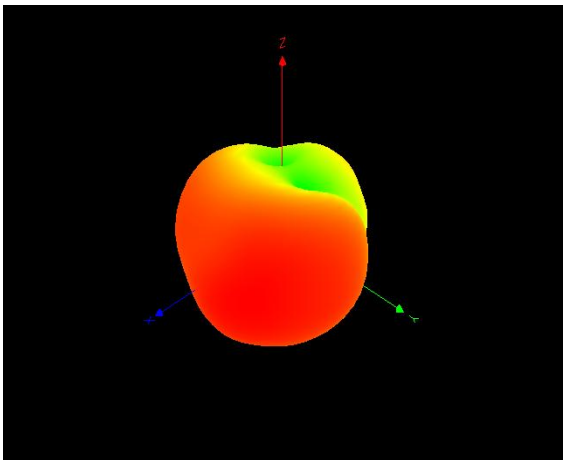
5-1 Antenna 3D Radiation Pattern



2400MHz

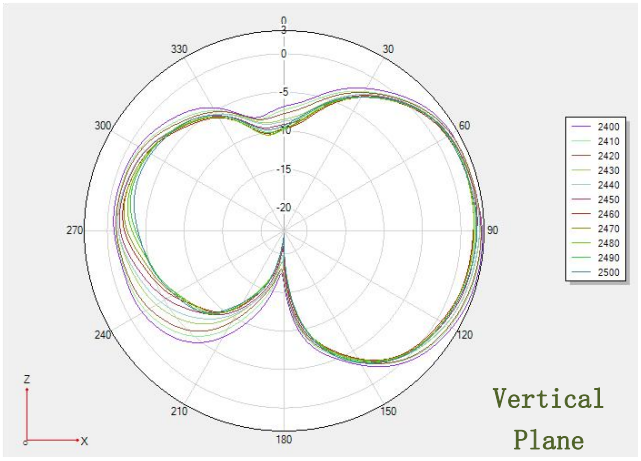


2450MHz

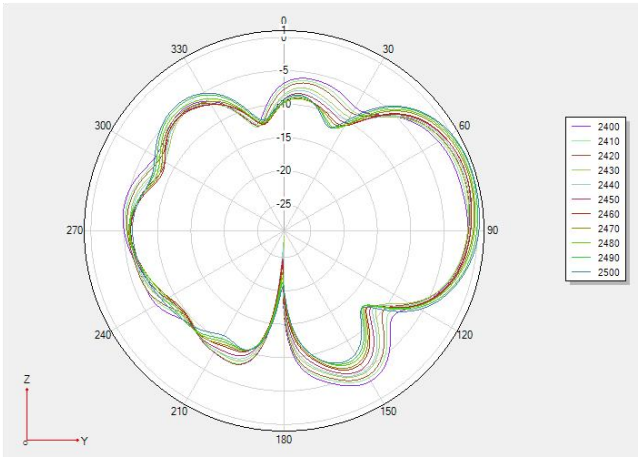


2500MHz

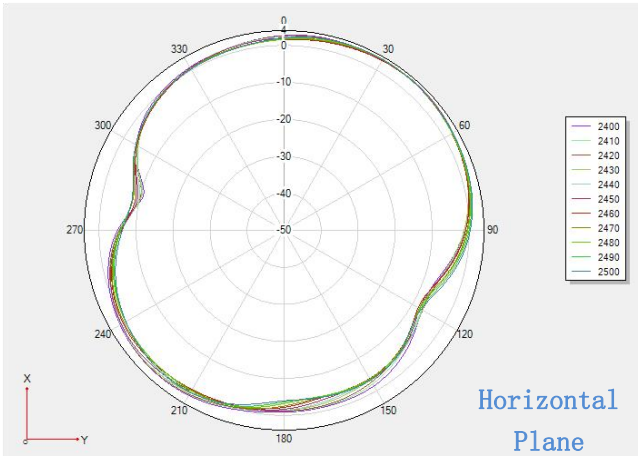
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification: