

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=230mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C225W3D2171A REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing. Liu	
DATE:	2022/9/28	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Dillon	2022-09-28

Content

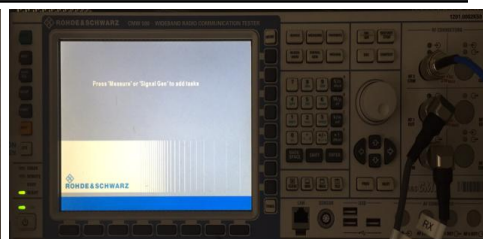
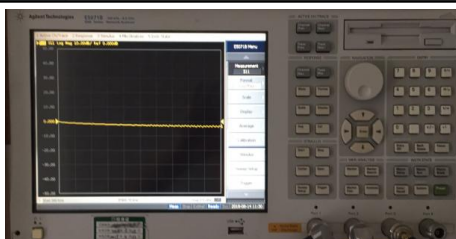
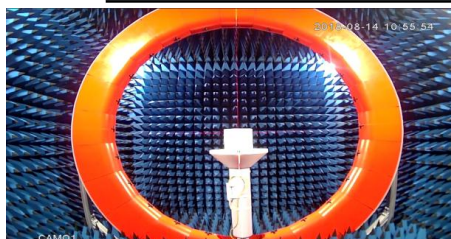
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
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3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
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7.-----	Packaging

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.9x104.9,L230	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	2.43 (max)	dBi
Efficiency	>60	%
Connector Type	1.13 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	-13	1.55
2450	-25	1.11
2500	-17.32	1.31

* Voltage Standing Wave Ratio(VSWR)

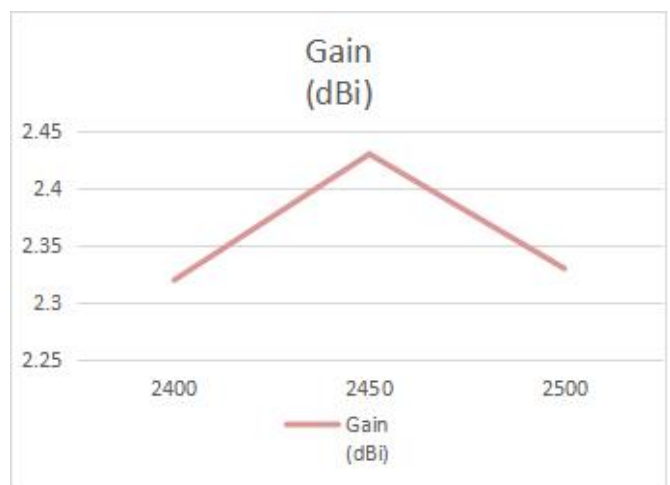
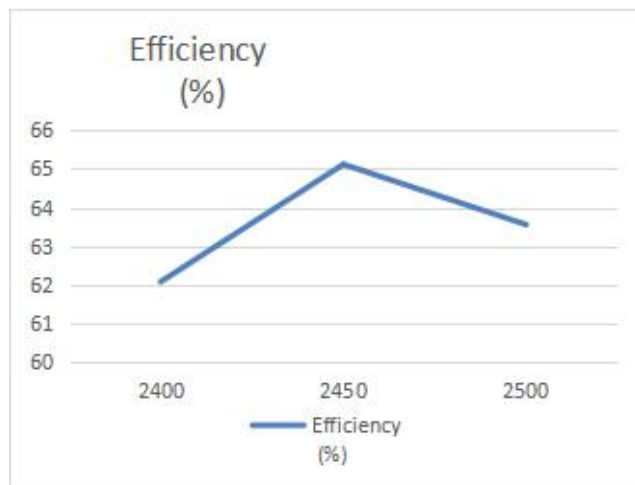
Return Loss(RL)

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



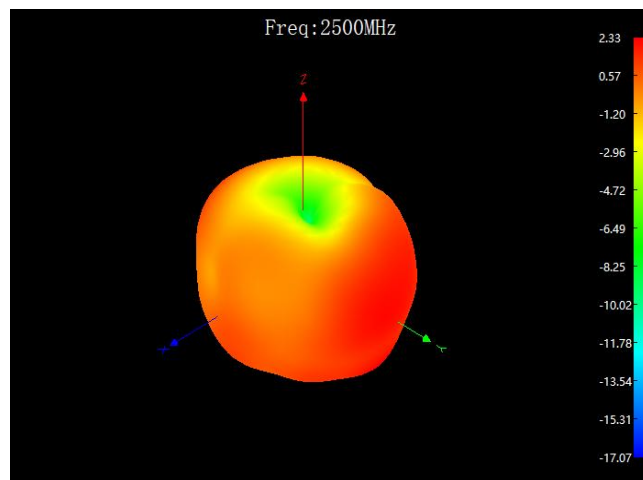
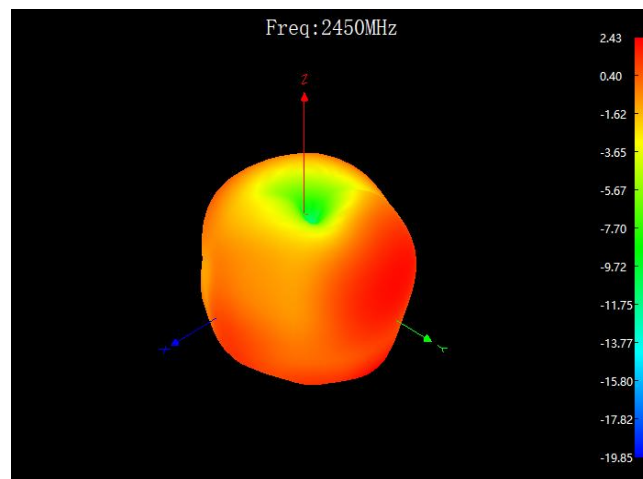
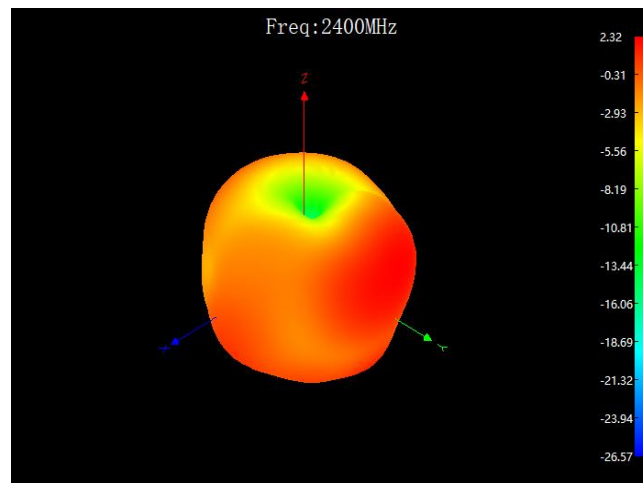
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	62.08	65.12	63.56
Gain (dBi)	2.32	2.43	2.33

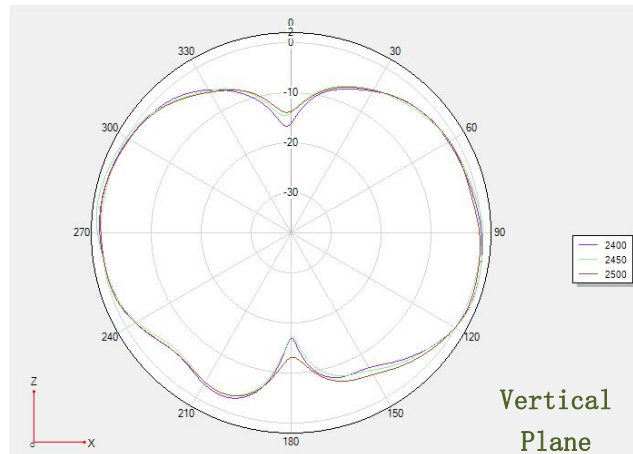


5. Radiation Pattern

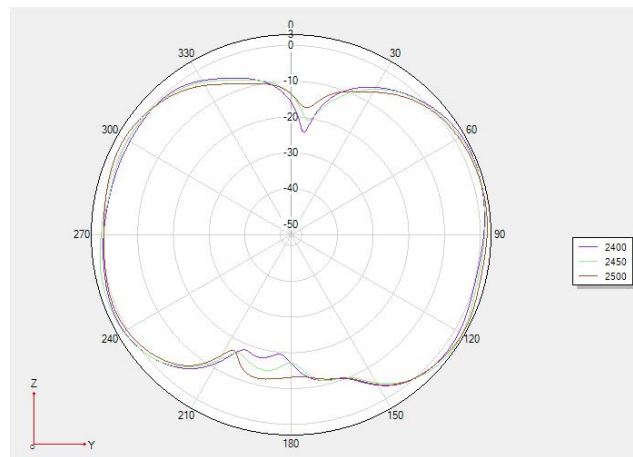
5-1 Antenna 3D Radiation Pattern



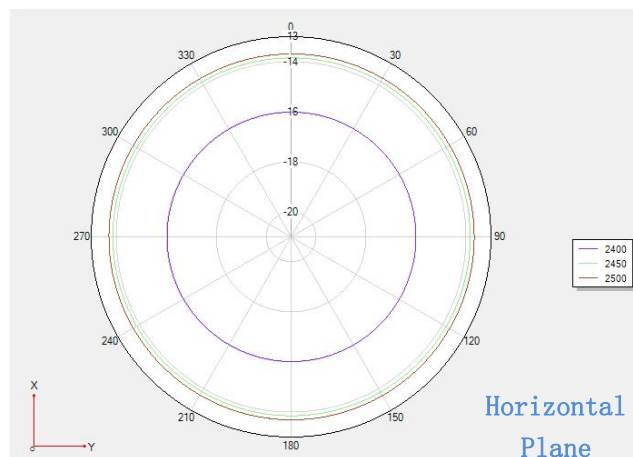
5-2 Antenna 2D Radiation Pattern



Phi 0 2D

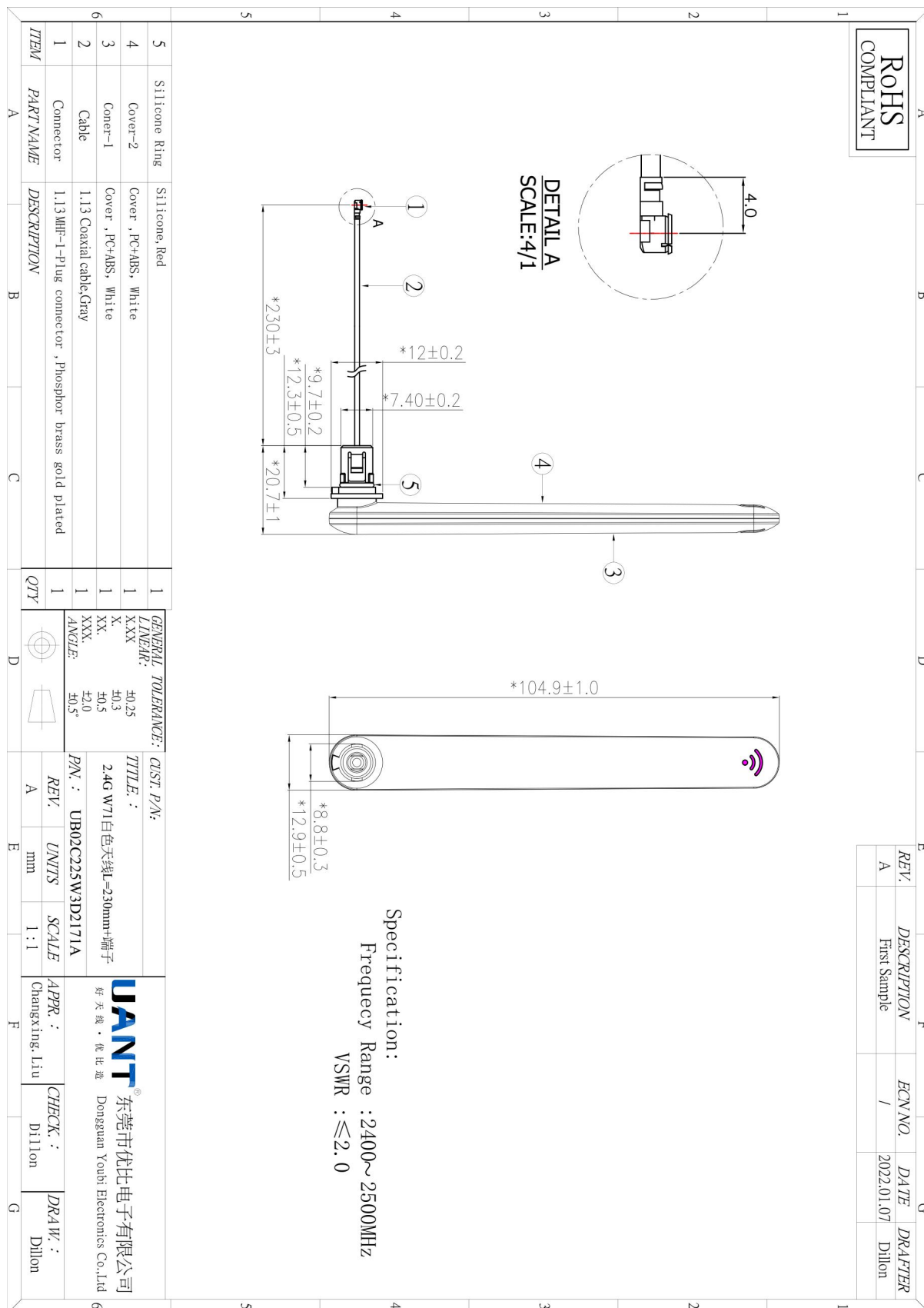


Phi 90 2D

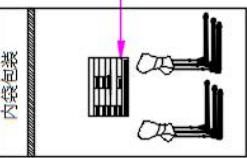
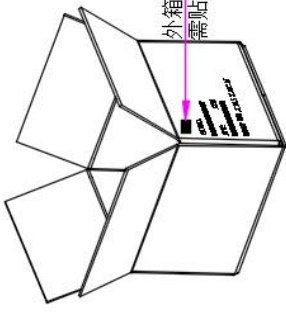


Theta 90 2D

6. Mechanical Specification:



7. Packaging

A		B		C		D		E		F		G			
1		2		3		4		5		6		7			
REV. A		DESCRIPTION First Sample		ECN NO. /		DATE 2021-09-10		DRAFTER Mark							
 单个产品		内袋包装说明: 25pcs 产品包扎成一扎, 每袋装入2扎产品 共计50pcs. - PE袋进行封口. - 每袋需贴1pcs 内袋标签至PE袋正中间位置.		内袋包装  内袋标签		 外箱包装		外箱标签  需贴/ROHS标签		1. 纸箱尺寸: 长320mm*宽320mm*高200mm. 2. 每箱装16袋产品, 共计装800pcs产品每箱.		电话: 0769-81777126 传真: 0769-81777125		电话: 0769-81777126 传真: 0769-81777125	
RoHS COMPLIANT		包装箱封箱标准: 先用胶带封紧, 然后用2条打包带固定.		内袋标签		外箱标签		1. 纸箱尺寸: 长320mm*宽320mm*高200mm. 2. 每箱装16袋产品, 共计装800pcs产品每箱.		电话: 0769-81777126 传真: 0769-81777125		电话: 0769-81777126 传真: 0769-81777125			
GENERAL TOLERANCE: CUST. P/N:		LINEAR: ±0.10		ANGLE: ±0.5°		SCALE 1:1		REV. A		UNITS mm		SCALE 1:1			
2.4G W70 白色天线 L=150mm+端子		P/N: UB02C150W3D2311A		APPR: Changxing, Liu		CHECK: Dillon		DRAW: Mark, Liang		东莞市优比电子有限公司 Dongguan Youbi Electronics Co., Ltd		好天线 · 优比造			