

APPROVAL SHEET

CUSTOMER NAME: PUWELL

PRODUCT NAME: 2.4G Antenna / Small Wine Pot (小酒壶)

CUSTOMER P/N: 6.11.01.0065

UB P/N: UB01C40F3D2020A REV: B

PRODUCER NAME: Youbi

Dongguan Youbi Electronics Co.,LTD, Room 101,Building 2,No.9,
PRODUCER ADDRESS: Xinfu Road,Lin Village,Tangxia Town, Guangdong province

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2023/04/04	

1. Specification table:

Electrical Specification	
Design Specifications	Types
Antenna Type	External antenna connector
Operating Frequency	2400-2500MHz
Peak Gain	3.68dBi
Average Efficiency	44.76%
VSWR	<1.92
Polarization	Linear
Axial Ratio	\
Radiation pattern	Omnidirectional
Impedance	50 ohm
Power handling	1W
Interface	Cable+Terminal
Overall dimensions	42.1*20.9mm
Weight	/
Operating Temp.	-20℃~+70℃
Storage Temp.	-20℃~+70℃

DETAIL A
SCALE:2.5/1

4.0

20.90±0.5

42.10±0.5

40±3

1

2

3

0.20±0.1

UANT®
20B02253A

The terminal direction is shown in the figure

ITEM	PART NAME	DESCRIPTION	QTY
1	Connector	0.81 MHF-II-Plug connector, Phosphor brass gold plated	1
2	Cable	0.81Coaxial cable,Gray	1
3	FPC	FPC Antenna radiator, P/L Black	1

REV.	DESCRIPTION	ECN NO.	DATE	DRAWER
X1	First Sample	/	2023.03.21	Kangjun Xu

GENERAL TOLERANCE:		CUST. P/N:	
LINEAR:			
XXX	±0.25		
XX	±0.3		
X	±0.5		
XXX	±2.0		
ANGLE:	±0.5°		

TITLE:		CUST. P/N:	
2.4G FPC External antenna L=40mm+terminal			
UB P/N: UB01C40F3D2020A			

REV.	UNITS	SCALE	APPR.	CHECK.	DRAW.
A	mm	1:1	Changxing Liu	Yunfei Zhang	Kangjun Xu

UANT® 东莞市优比电子有限公司
Dongguan Yubi Electronic Co., Ltd

3.2: Darkroom 2D、3DRaditation Pattern

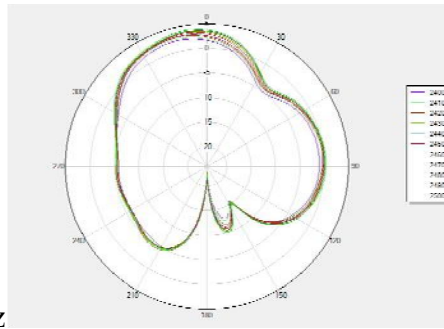
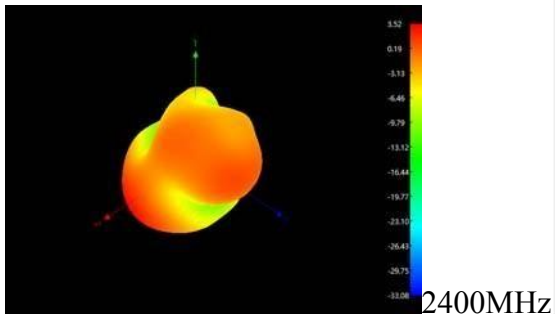
3.2.1 Efficiency and gain

Frequency (MHz)	Efficiency (%)	Peak Gain / dBi
2400	43.23	3.58
2410	44.03	3.57
2420	45.06	3.45
2430	45.46	3.40
2440	45.61	3.33
2450	45.57	3.46
2460	45.61	3.53
2470	43.13	3.68
2480	44.63	3.56
2490	44.95	3.48
2500	45.08	3.47

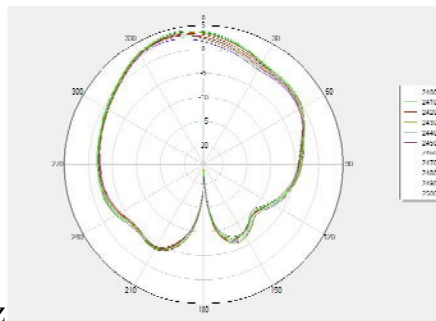
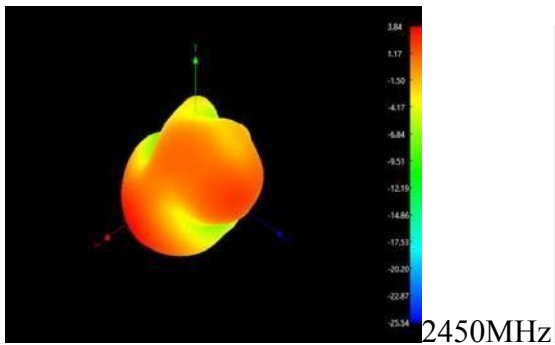
3.2.2 OTA

Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	21.35	-4.24	17.18
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	24.38	-3.99	18.41
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	25.62	-0.91	18.21
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	79.94	53.76	75.7
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	84.53	56.7	80.18
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	82.63	56.02	78.22

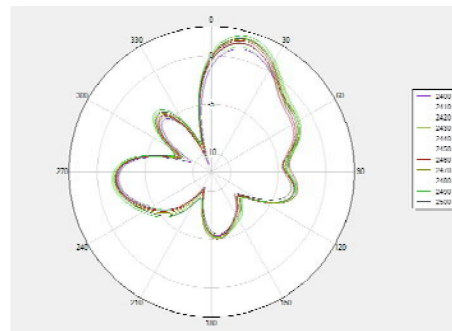
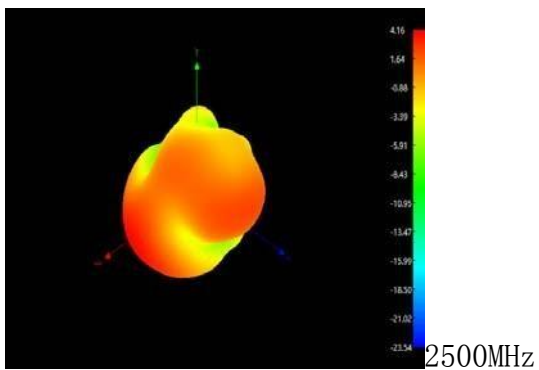
3.2.2.1 Darkroom 2D、3D Raditation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

4:Antenna position

