



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co.,Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: 卓翼

产 品 名 称 2.4G 圆形黑色转折短下固天线

PRODUCT NAME: L=30mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C30B5Da867A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Liu	
APPROVED BY:	Changxing.Liu	
DATE:	2023-7-4	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2023-7-4

Content

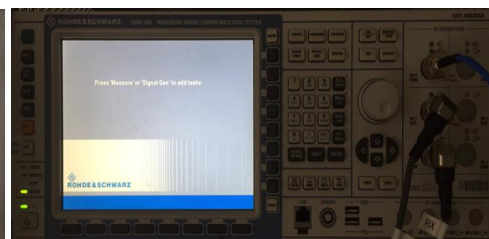
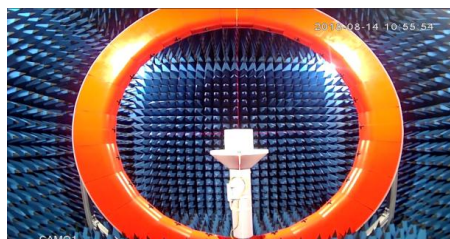
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1.Electrical Specification

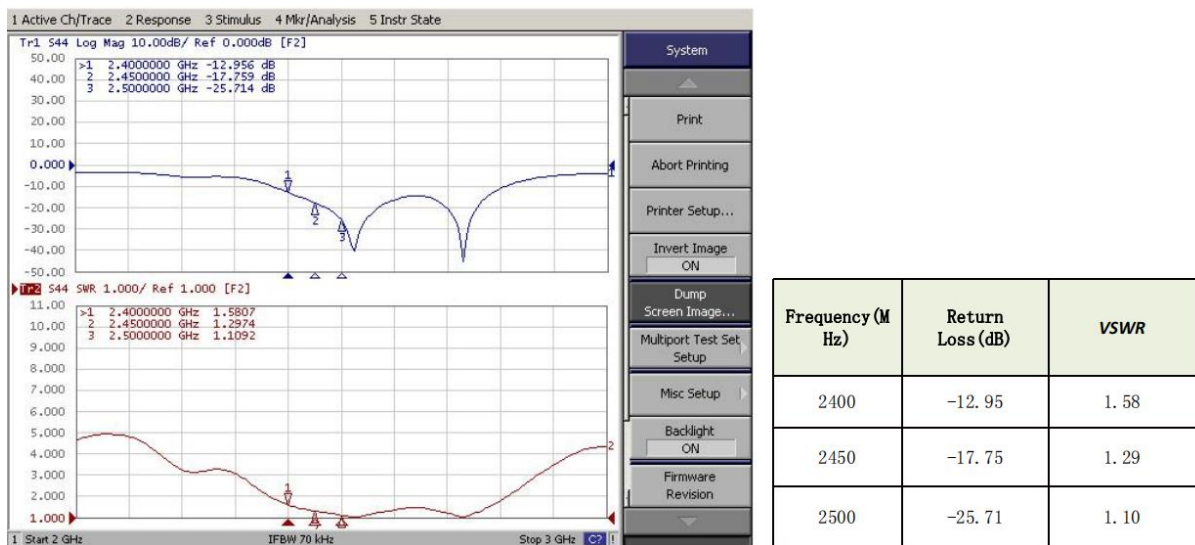
Characteristics	Specifications	Unit
Outline Dimensions	Ø13*210 L=30	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	3.42	dBi
Efficiency	>70	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

2.Test Items and Equipment

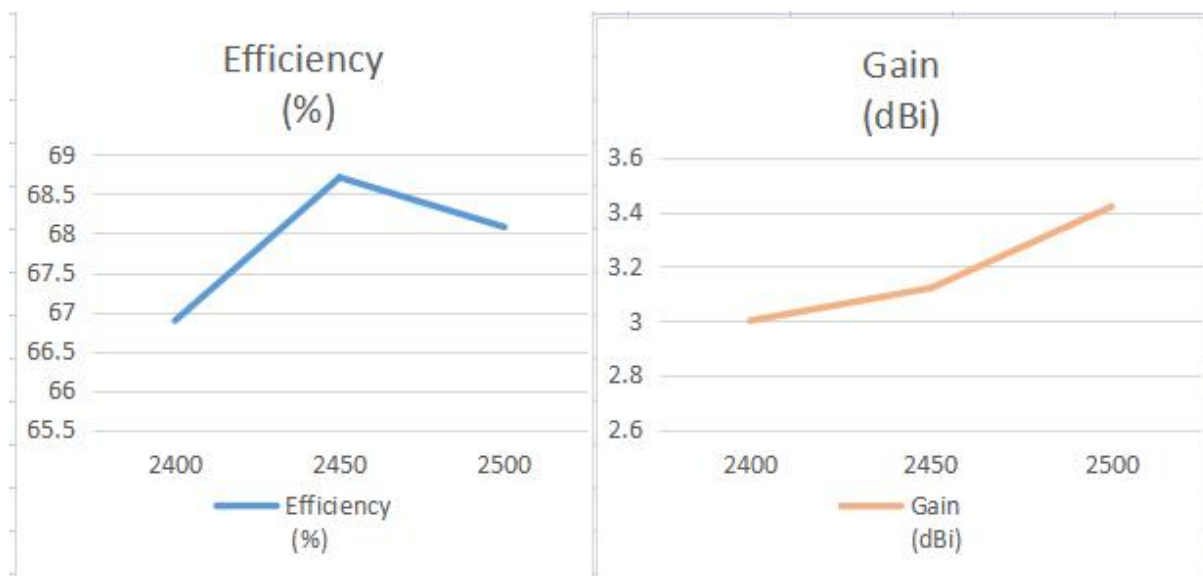
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter



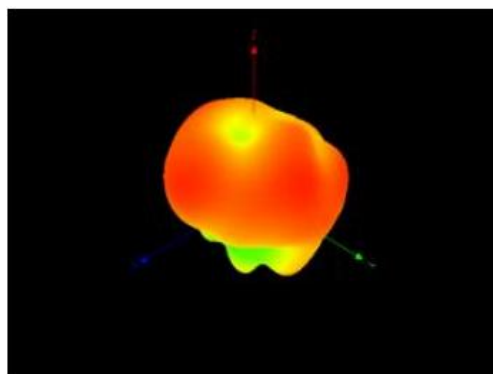
4. Efficiency and Gain



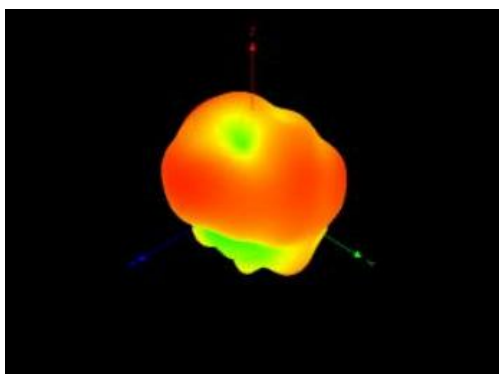
Frequency (MHz)	2400	2450	2500
Efficiency (%)	66.89	68.71	68.08
Gain (dBi)	3	3.12	3.42

5. Radiation Pattern

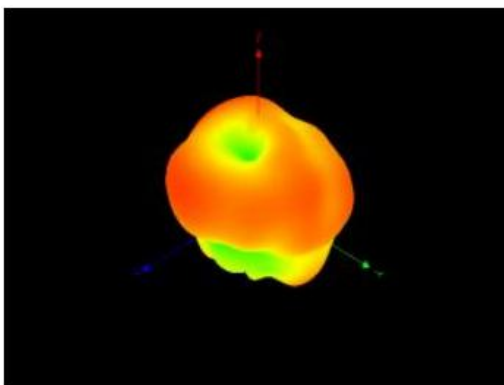
5-1 Antenna 3D Radiation Pattern



2400

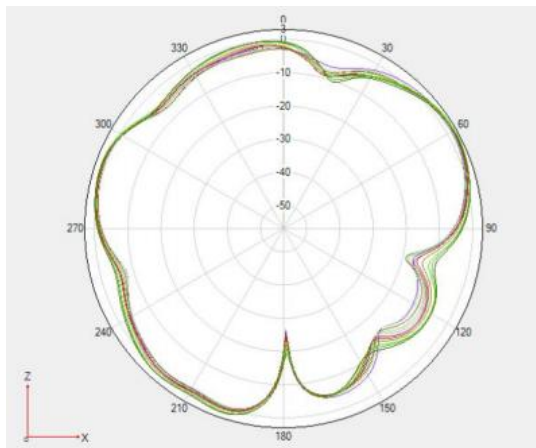


2450

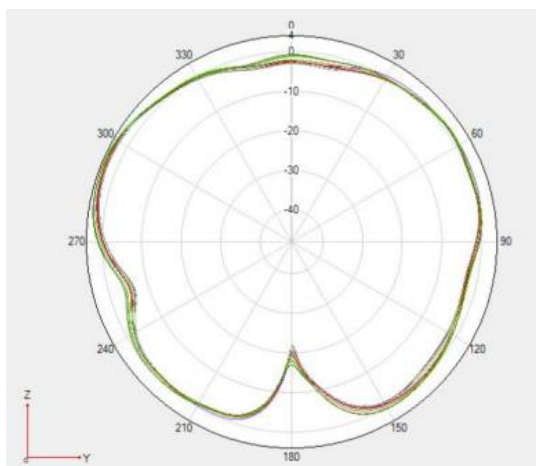


2500

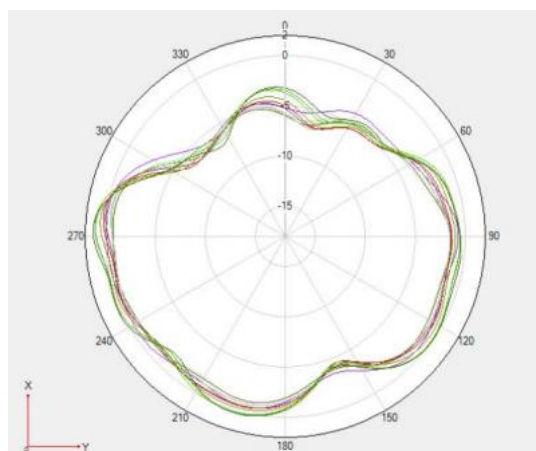
5-2 Antenna 2D Radiation Pattern



Phi 0 2D 图



Phi 90 2D 图



Theta 90 2D 图

5. Antenna active data

Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	17.95	-1.46	14.52
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	7	2442	17.67	1.33	14.55
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	13	2472	17.87	1.7	14.13
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	-56.6	-75.88	-72.06
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	7	2442	-59.4	-75.73	-72.42
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	13	2472	-58.03	-75.87	-72.5

