

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称 2.4G FPC 内置天线 L=45mm

PRODUCT NAME: 1.13 双锡黑色线+一代端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: **UB01C45F1D5006A** REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025/5/15	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2025-5-15

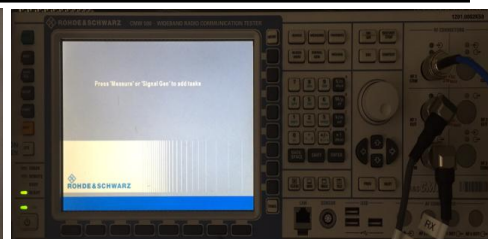
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Source-injection testing
7.-----	Antenna assembly area
8.-----	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions		mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	4 ± 1	dBi
Efficiency	>70	%
Connector Type	1.13 RF1	
Operating temperature	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
Storage Temp	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	

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)



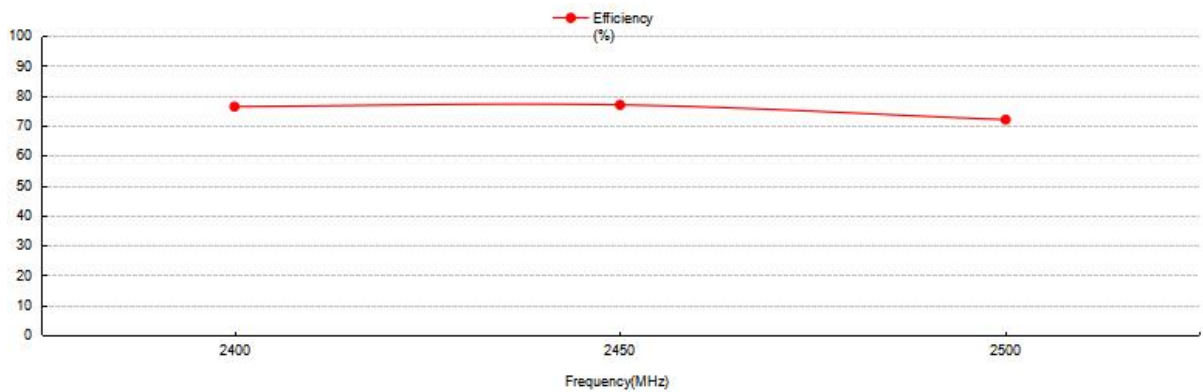
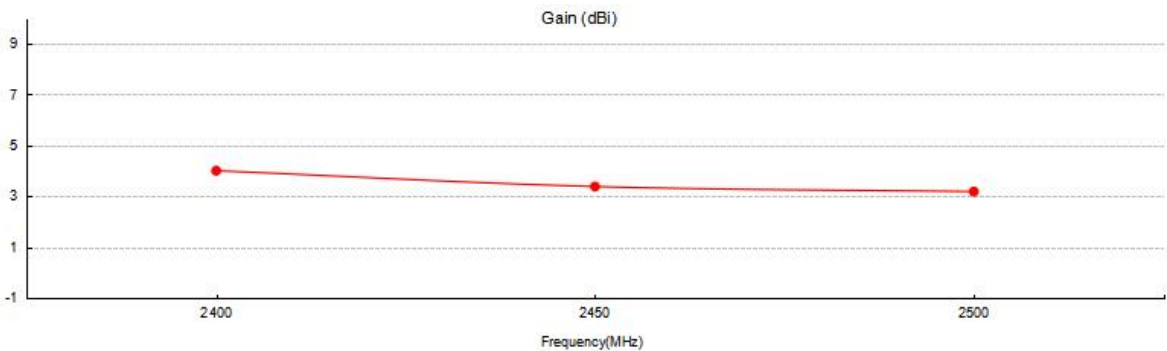
3. S Parameter

Frequency (MHz)	VSWR	Return Loss(dB)
2400	1.46	-14.63
2450	1.40	-15.86
2500	1.68	-11.79

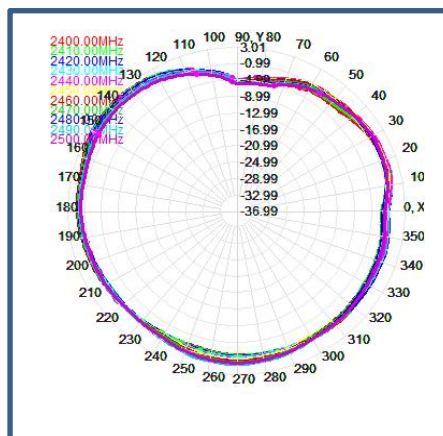
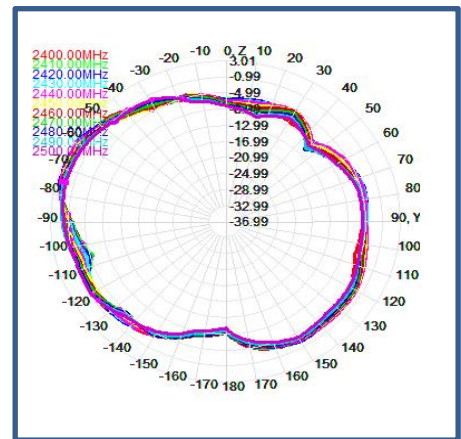
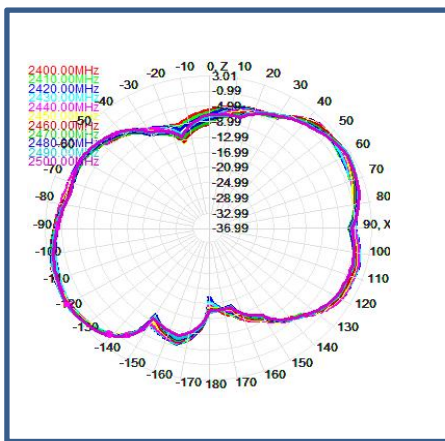
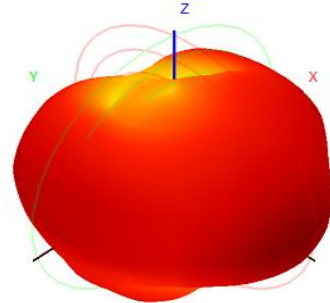
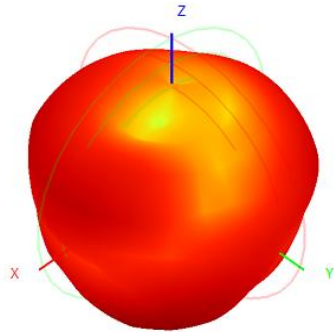


4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	76.36	76.93	71.98
Gain (dBi)	4.0	3.38	3.18



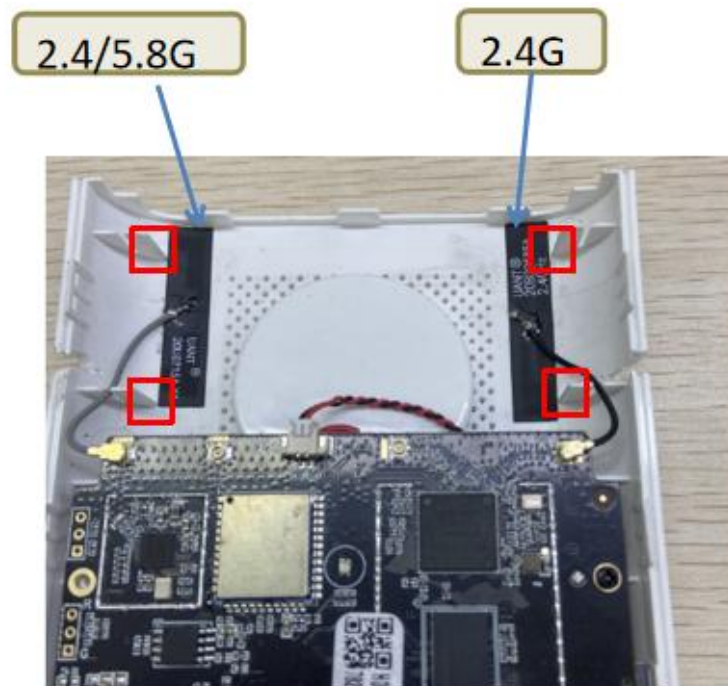
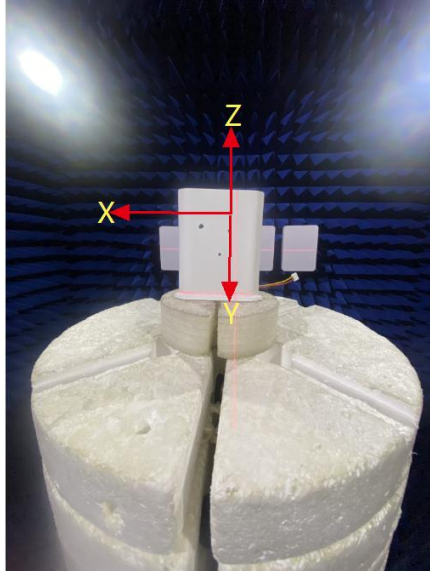
5. Antenna 2D&3DRadiation Pattern



6. Source-injection testing

Mode	TestCase	Channel	DataRate (Mbps)	(1#) TestResults (dBm)	(2#)	DataRate (Mbps)	(1#) TestResults (dBm)	(2#) TestResults (dBm)
					TestResults (dBm)			
IEEE802.11b	TRP	1	11	/	16.35	1	/	15.33
		6		16.1	15.82		/	15.61
		11		16.22	16.65		16.7	16.35
	TIS	1	11	/	-89.06	1	/	-94.5
		6		-88.11	-69.38		/	-69.56
		11		-88.43	-68.24		-92.92	-89.06
IEEE802.11g	TRP	1	54	14.98	16.92	6	/	16.7
		6		17.13	17.06		/	17.04
		11		16.83	17.16		/	16.82
	TIS	1	54	-75.74	-75.95	6	/	-92.94
		6		-75.13	-67.74		/	-65.93
		11		-76.72	-71.69		/	-74.72

7. Antenna assembly area



两根WIFI天线顶部齐平壳料，
侧面紧贴两根筋位装配

8.Mechanical Specification

