



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:

产 品 名 称

PRODUCT NAME: 2.4G 2DB FPC built-in antenna L=160MM+terminal

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C220F2D4755A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing. Liu	
DATE:	2024/9/27	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-9-27

Content

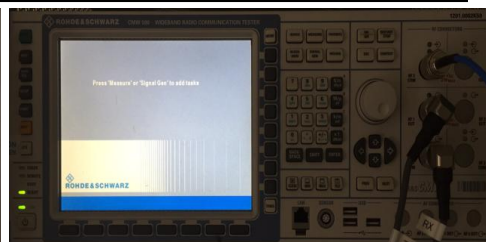
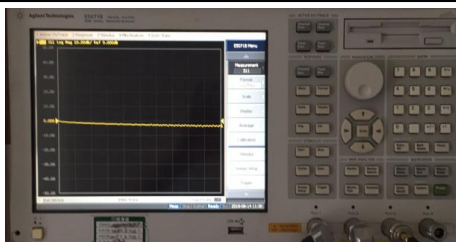
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Antenna installation diagram
7.-----	Mechanical Specification

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	28.5x11.7,L160	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	4.35	dBi
Efficiency	>60	%
Connector Type	RF 1	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

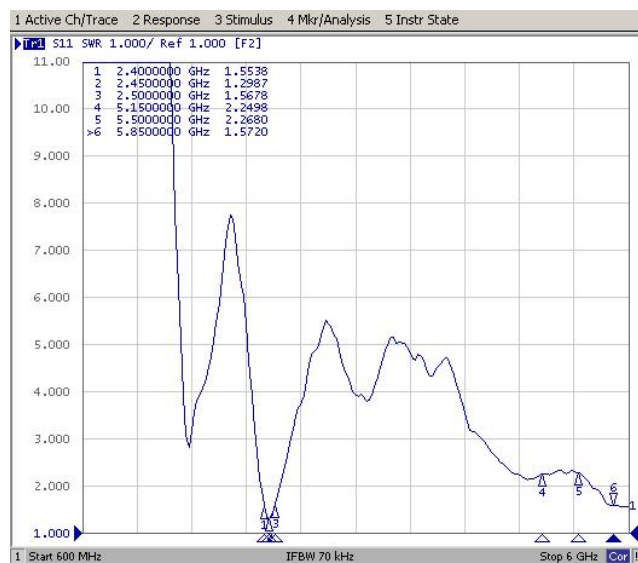
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter

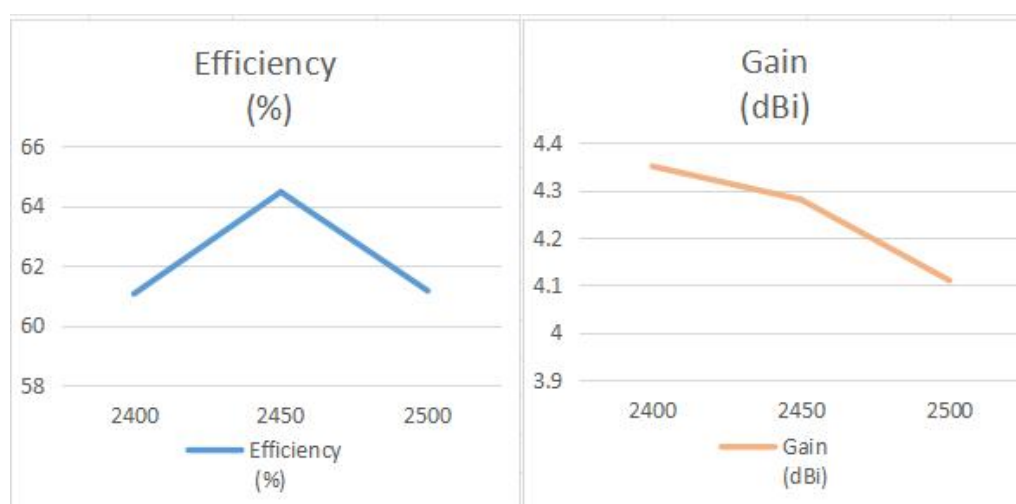
Frequency (MHz)	VSWR
2400	1.55
2450	1.29
2500	1.57

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

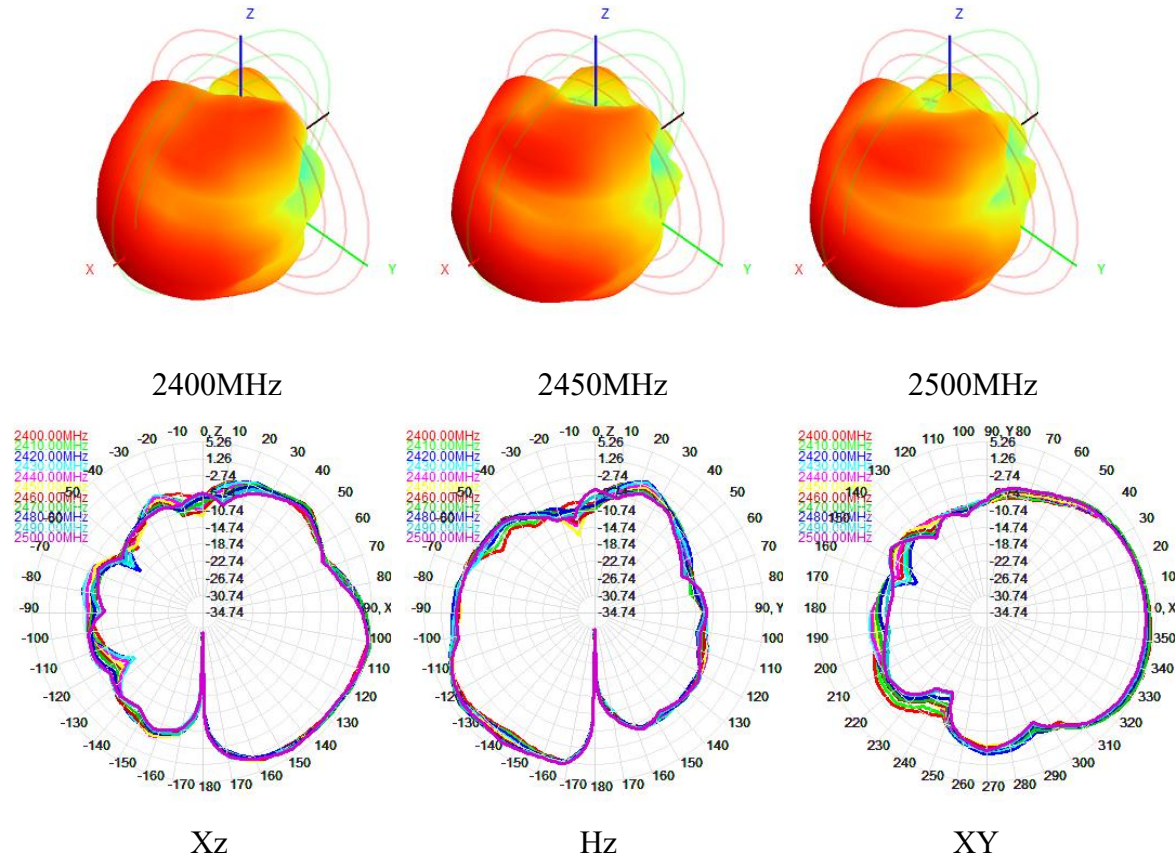


4. Efficiency and Gain

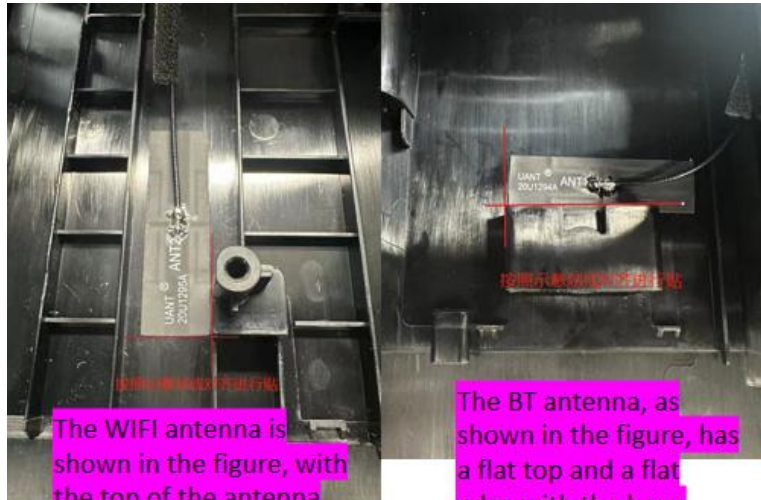
Frequency (MHz)	2400	2450	2500
Efficiency (%)	61.06	64.46	61.16
Gain (dBi)	4.35	4.28	4.11



5. Radiation Pattern

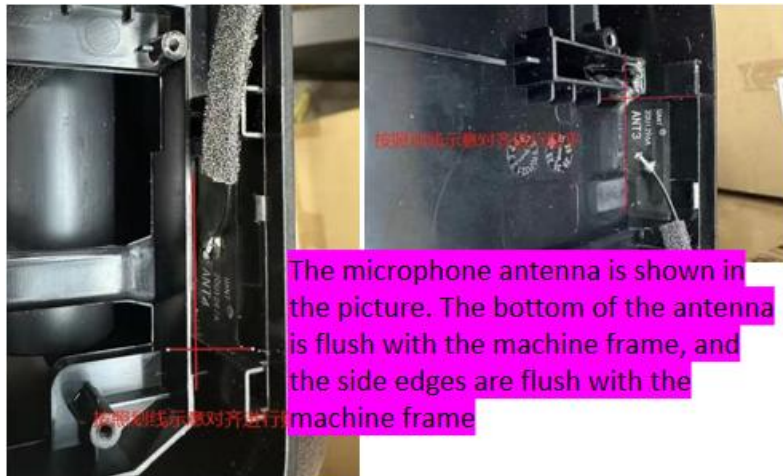


6. Mechanical Specification



The WIFI antenna is shown in the figure, with the top of the antenna level and the edge of the bone flat

The BT antenna, as shown in the figure, has a flat top and a flat edge with the bone position attached



The microphone antenna is shown in the picture. The bottom of the antenna is flush with the machine frame, and the side edges are flush with the machine frame

7.Mechanical Specification

