



好天线 · 优比造

Dongguan Youbi Electronics Co., Ltd

APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME: 2.4G FPC Antenna L=180mm+ terminal

CUSTOMER P/N:

Youbi P/N: UB01C80F2D4206A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	 Changxing. Liu	
DATE:	2023/2/13	



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Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2023-2-13



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Content

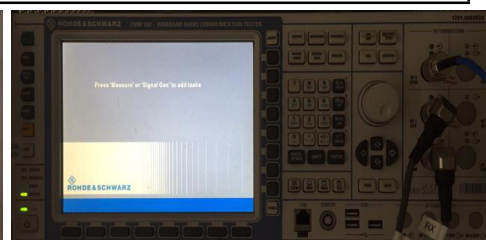
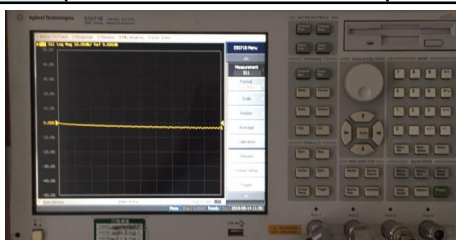
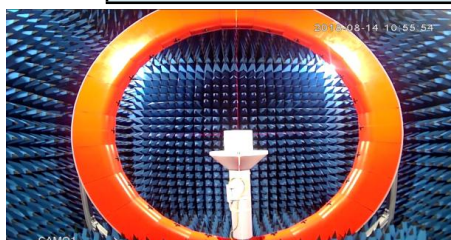
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Active test data
6.-----	Antenna installation diagram
7.-----	Mechanical Specification
8.-----	Packaging

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	35.2x8,L80	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	$3.0 \pm 0.5 @ 2.4G$	dBi
Efficiency	>50	%
Connector Type	RF 1	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

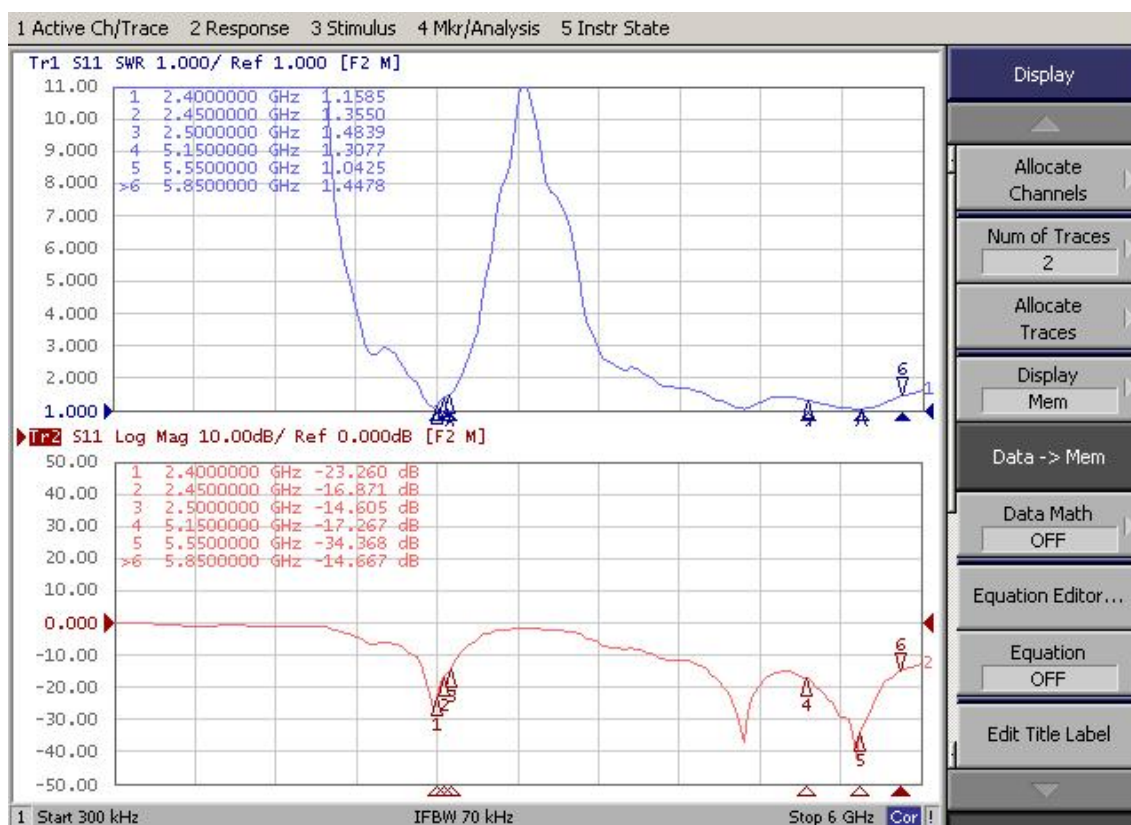
2. Test Items and Equipment

	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)



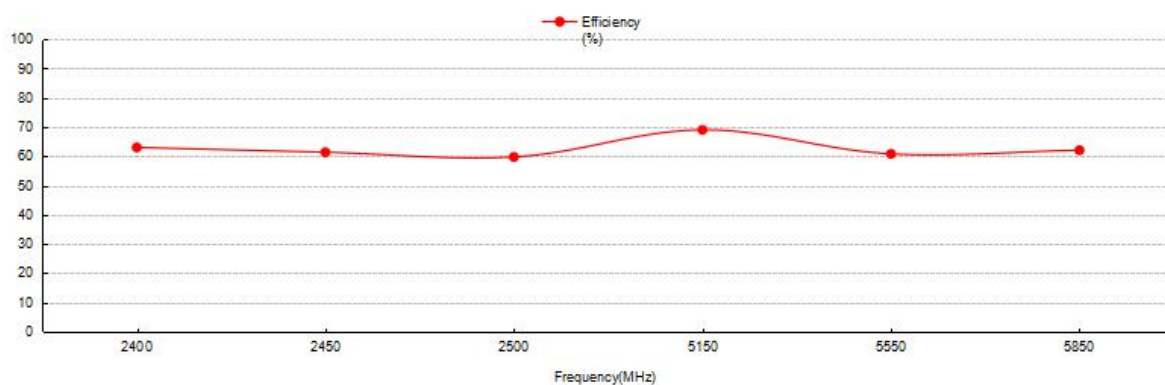
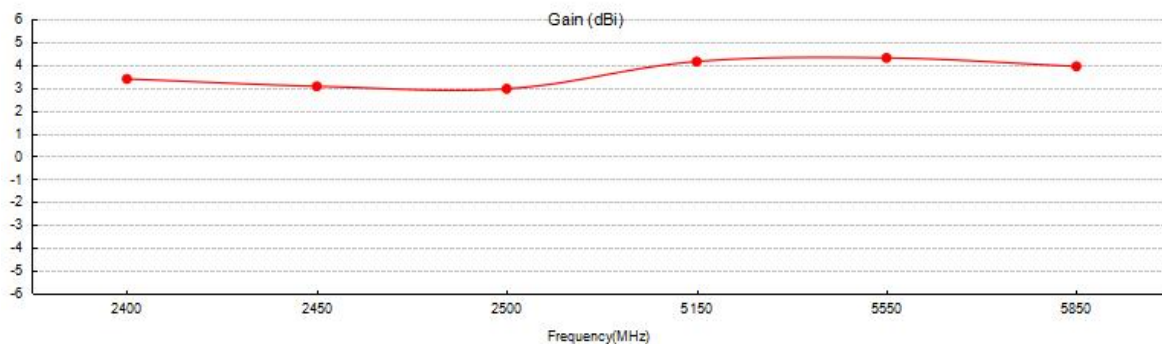
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-23.26	1.15
2450	-16.87	1.35
2500	-14.60	1.48



4. Efficiency and Gain

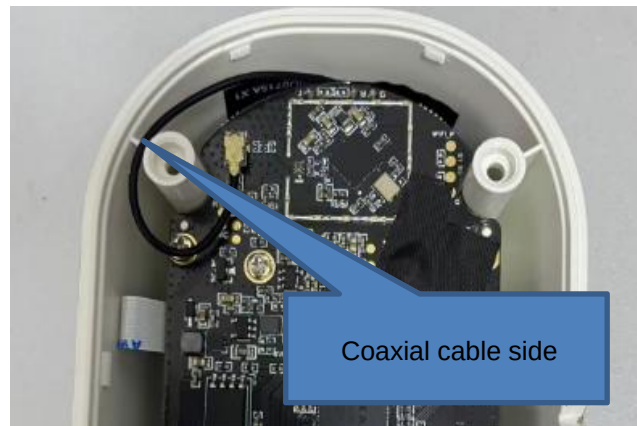
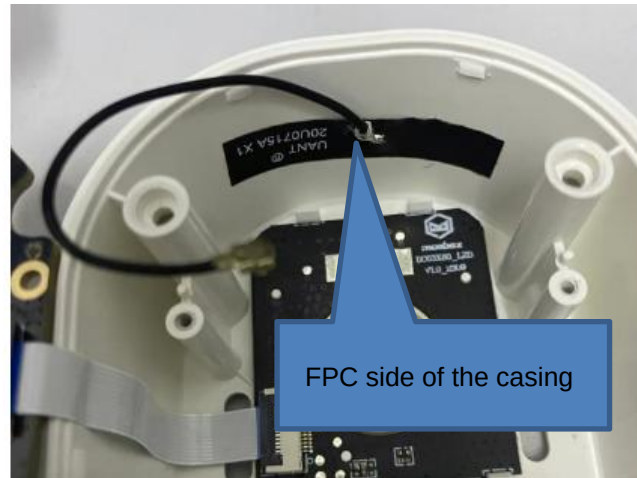
Frequency (MHz)	2400	2450	2500
Efficiency (%)	62.99	61.36	59.75
Gain (dBi)	3.38	3.06	2.95



5. Active test data

WIFI	信道	TRP	TIS
A (54M)	CH36	14.22	-73.36
	CH149	14.19	-73.73
	CH165	14.45	-73.54
B (11M)	CH1	18.62	-87.60
	CH7	18.54	-85.46
	CH13	18.61	-86.52
G (54M)	CH1	18.88	-74.19
	CH7	18.53	-72.87
	CH13	18.55	-73.75
N (MCS7)	CH1	18.87	-71.33

6. Antenna installation diagram



7. Mechanical Specification

