

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: WIFI Internal Antenna

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C180F2D5835A REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Tufang. huang	
DATE:	2026-04-21	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2026-04-21

Content

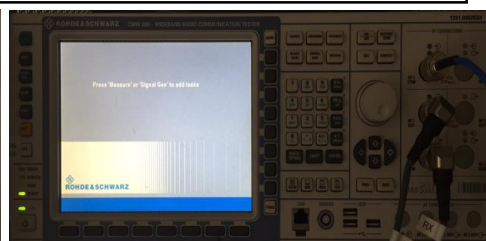
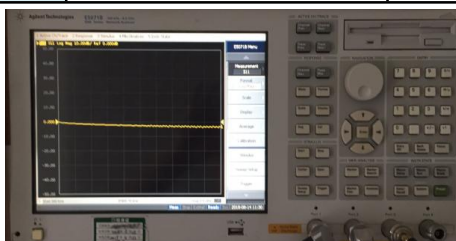
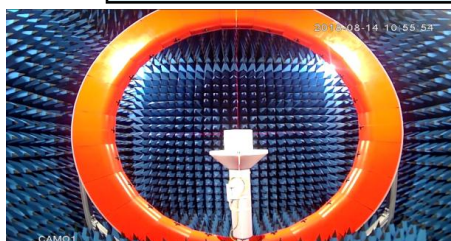
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	8*35.2 L=180	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 1.92	
Polarization	Linear Polarization	
Gain	4 ± 1	dBi
Efficiency	>60	%
Connector Type	1.13 RF1	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

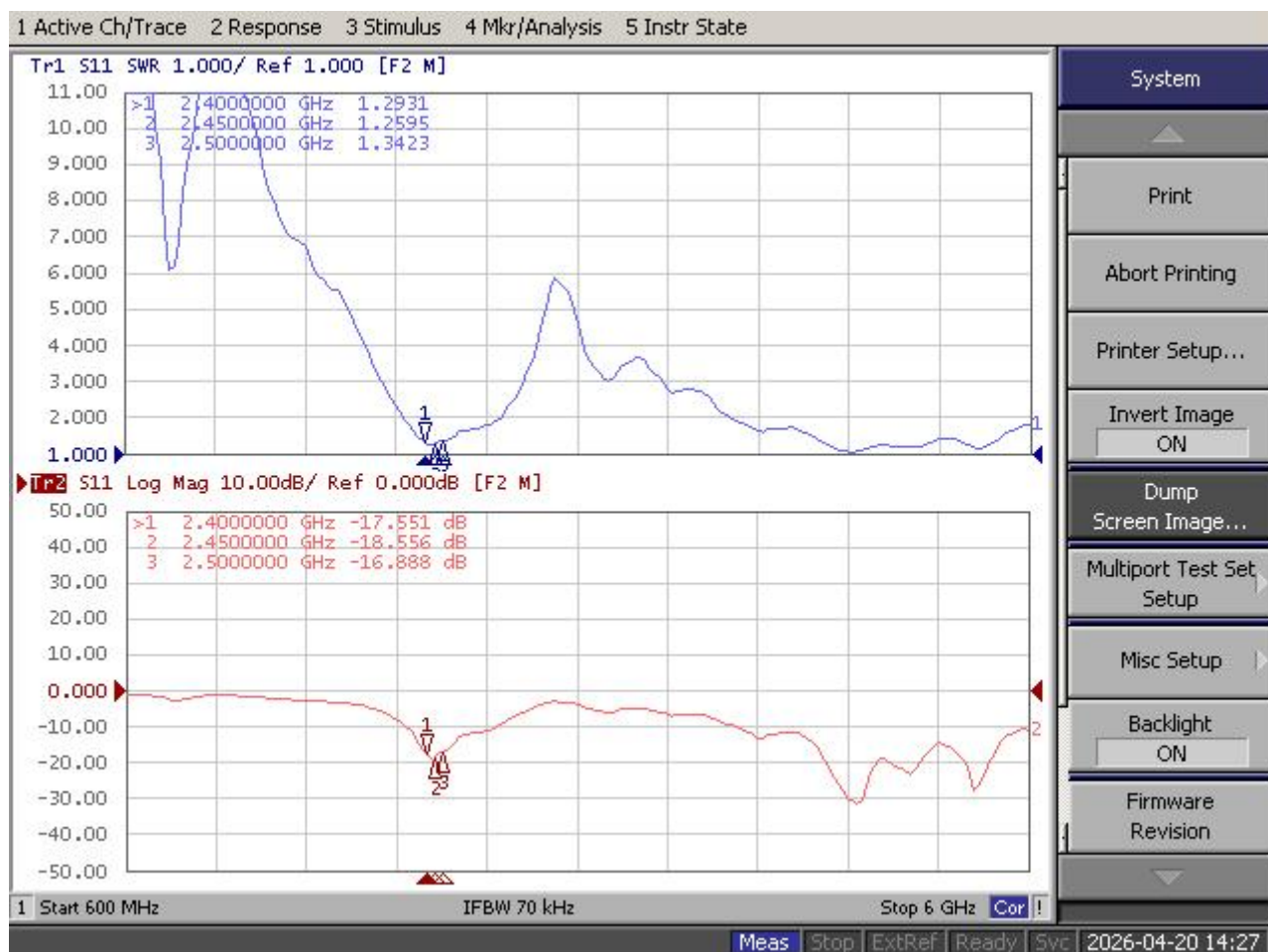
2. Test Items and Equipment

	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	-17.55	1.29
2450	-18.55	1.25
2500	-16.88	1.34



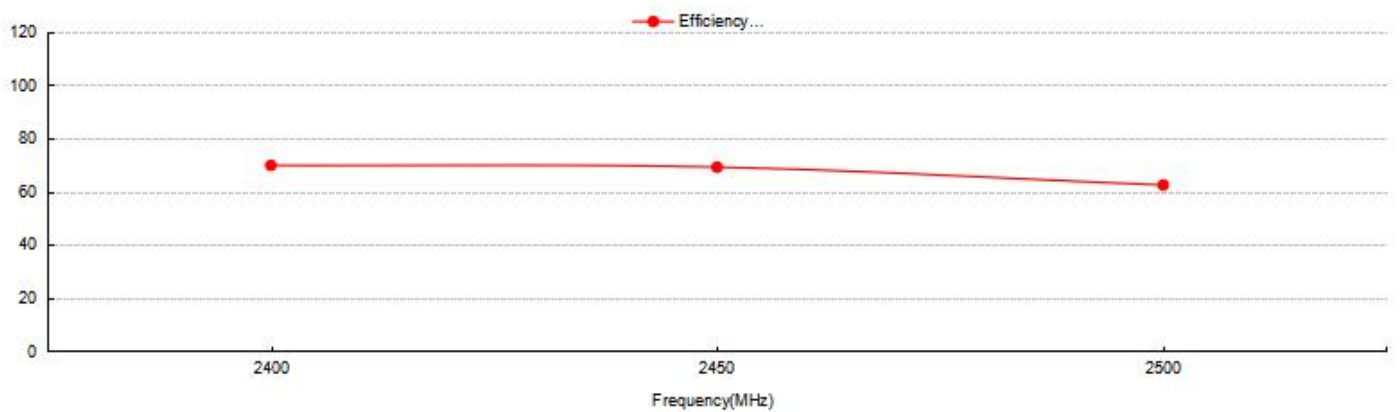
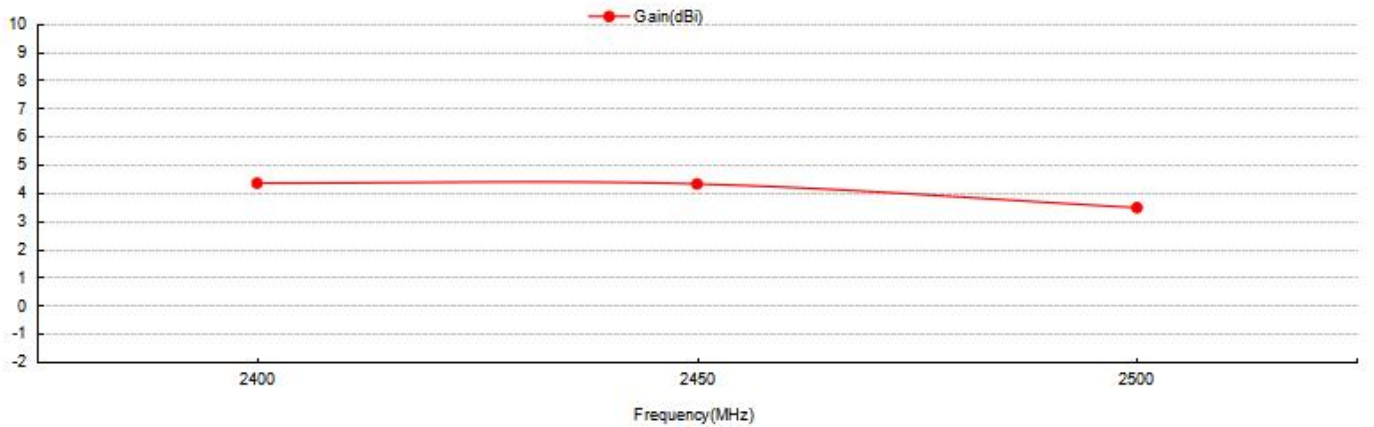
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

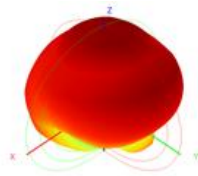
$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

4. Efficiency and Gain

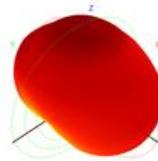
Frequency (MHz)	2400	2450	2500
Efficiency (%)	69.81	69.14	62.41
Gain(dBi)	4.34	4.31	3.47



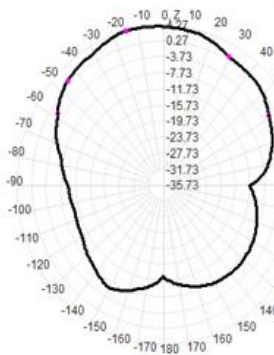
5. Antenna2D& 3D Radiation Pattern



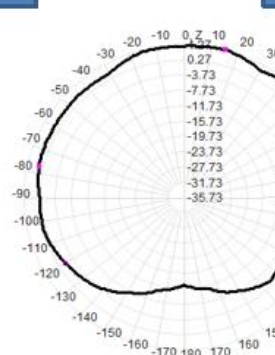
H+V



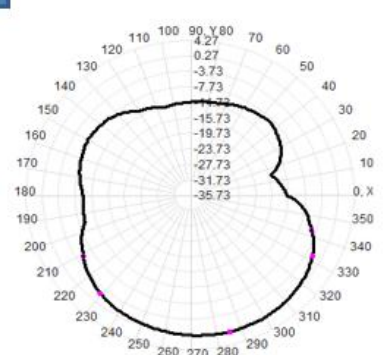
Back View



E1-XZ



E2-YZ



H-XY

2400MHz

6. Antenna active data

WIFI	Channel Number	TRP	TIS
B (11M)	CH1	17.86	-87.91
	CH6	17.89	-87.27
	CH11	17.98	-87.45
G (54M)	CH1	17.57	-74.35
	CH6	17.49	-73.03
	CH11	17.33	-73.49
N (MCS7)	CH1	17.48	-70.89
	CH6	17.31	-69.85
	CH11	17.12	-69.87

WIFI	Channel Number	TRP	TIS
B (11M)	CH1	18.49	-87.21
	CH6	18.55	-86.59
	CH11	18.52	-86.33
G (54M)	CH1	17.57	-73.54
	CH6	17.41	-73.08
	CH11	17.11	-72.55
N (MCS7)	CH1	17.59	-70.12
	CH6	17.52	-69.64
	CH11	17.28	-68.44

7. Antenna installation diagram



8. Mechanical Specification

