

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: 龙之源

产 品 名 称

PRODUCT NAME: 2.4G 铜管内置天线 L=280mm 1.37 黑色双锡线+ 一代端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C280J3D5065A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang 	
APPROVED BY:	Changxing Liu	
DATE:	2025/06/05	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Huang	2025-06-05

Content

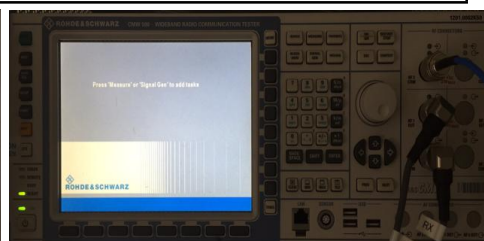
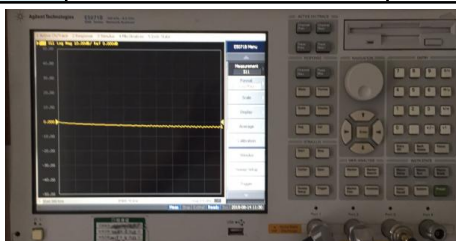
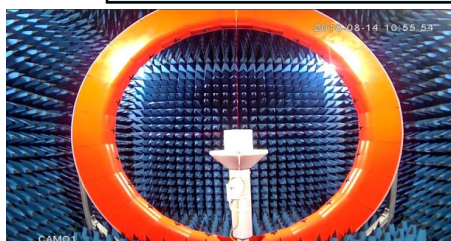
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	301.8	mm
Frequency	2400/2500	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	3.79	dBi
Efficiency	>60	%
Connector Type	RF 2	
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



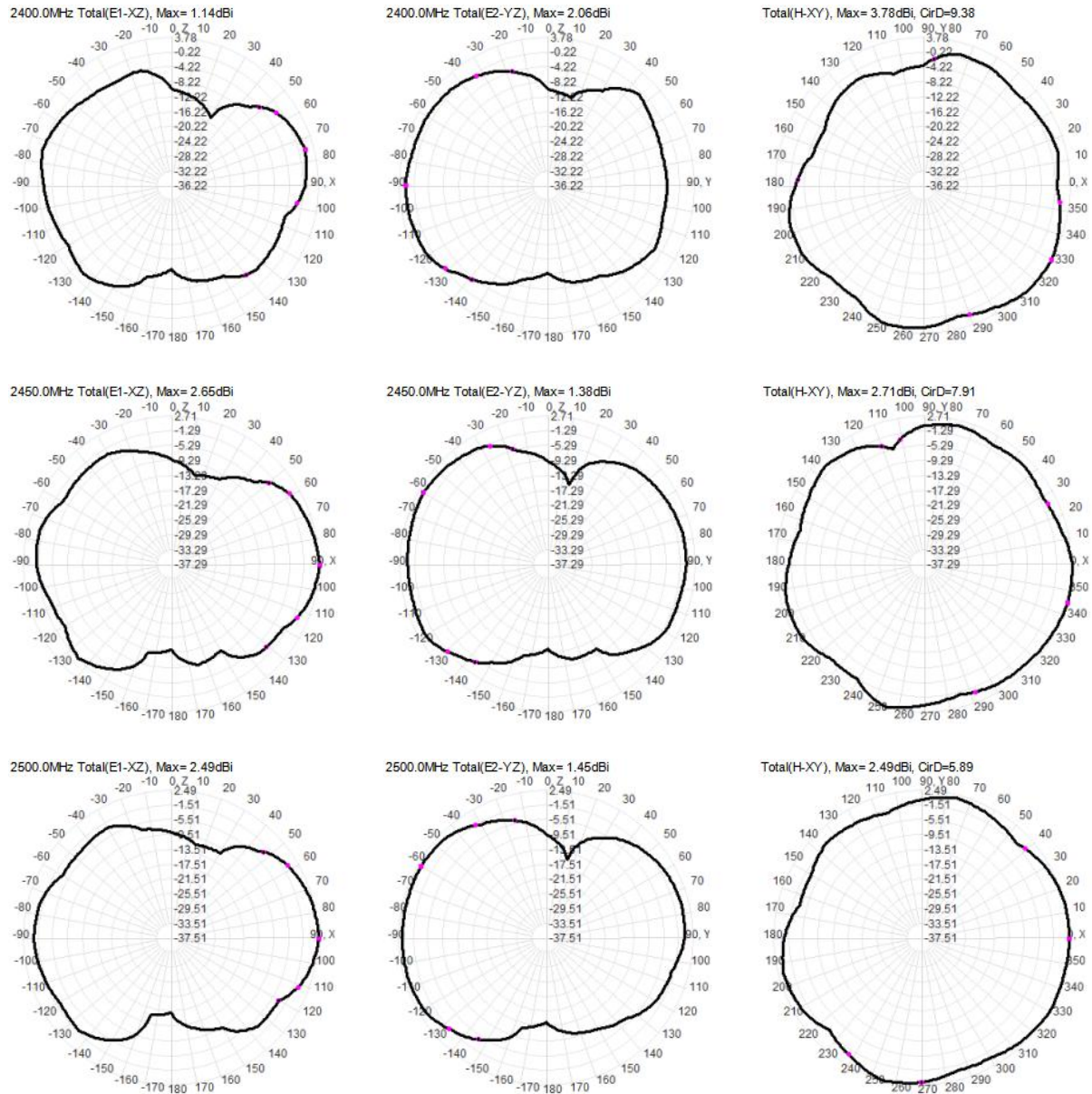
4. Efficiency and Gain

Frequency / MHz	Efficiency / %	Gain/ dB
2400	70.75	3.78
2410	70.83	3.79
2420	73.72	3.78
2430	72.93	3.28
2440	72.80	3.01
2450	70.37	2.87
2460	70.63	2.88
2470	69.13	2.86
2480	70.76	2.78
2490	71.68	2.71
2500	71.92	2.49

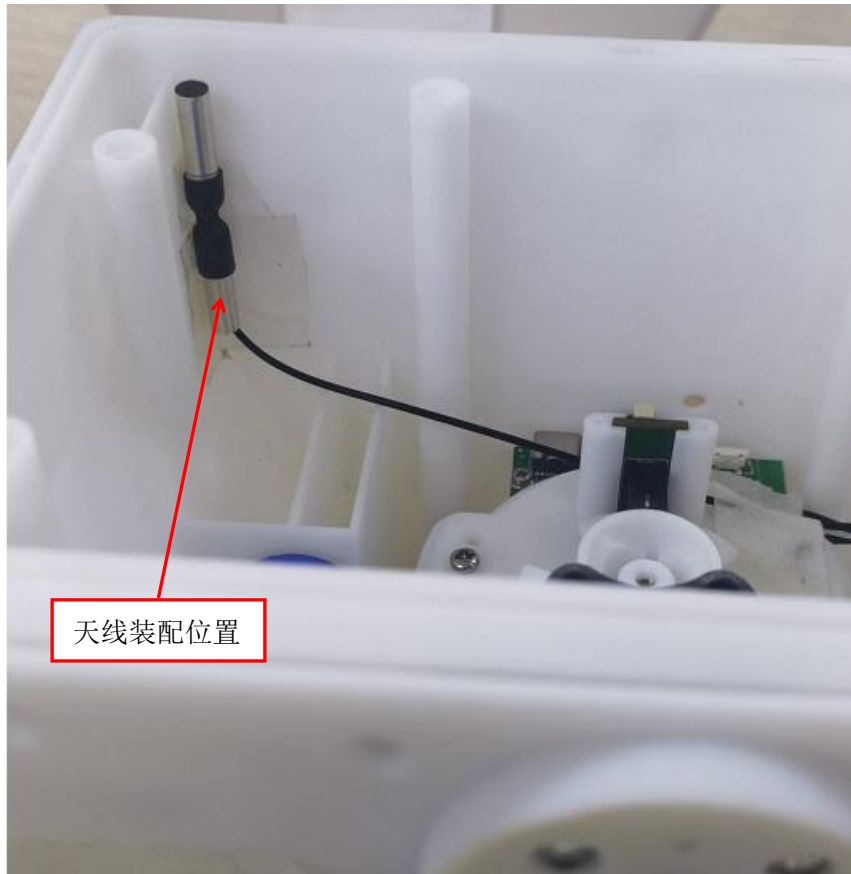
5. Main Antenna(3D Free Space)

	信道	TRP	TIS
11B 11M	1	18.33	-88.51
	7	18.88	-89.42
	13	17.10	-84.17
11G 54M	1	15.91	-73.37
	7	16.14	-75.07
	13	14.24	-71.53
G/N MCS7	1	16.05	-68.81
	7	16.13	-72.83
	13	14.29	-66.46

6. RadiationPattern



7. Antenna installation diagram



8. Mechanical Specification

