

Declaration

APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME: 2.4/5.8G Dragon Sword black antenna
L=200mm terminal

CUSTOMER P/N:

Youbi P/N: UB02C200B5D5628A REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Lina	
APPROVED BY:	Yuefei. zhu	
DATE:	2025-5-22	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2025-5-22

Content

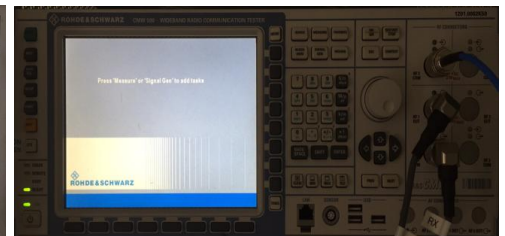
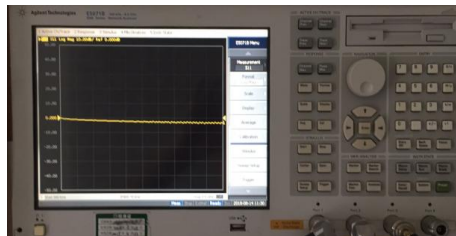
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

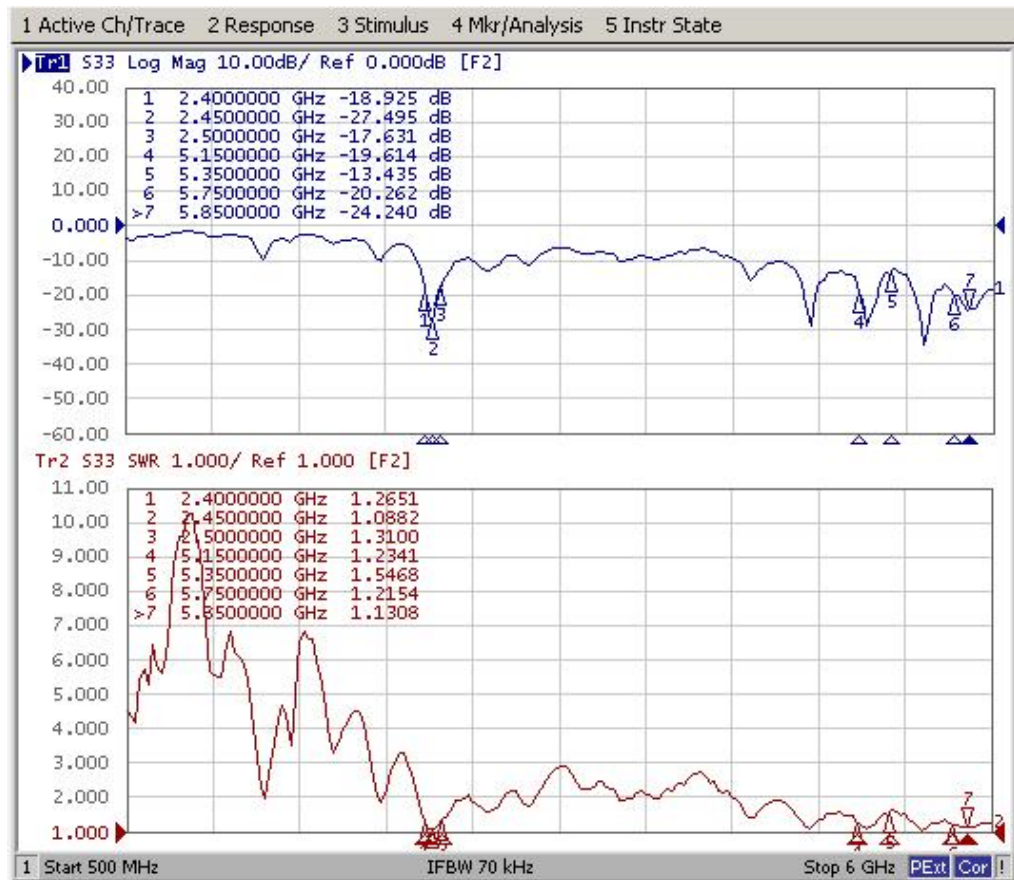
Characteristics	Specifications	Unit
Outline Dimensions	9.35x196.5,L=200	mm
Frequency	2400-2500/5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	5.0	dBi
Efficiency	>50	%
Connector Type	1.13MHF-1-Plug	
Operating temperature	-40℃~+80℃	
Storage Temp	-40℃~+80℃	

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)



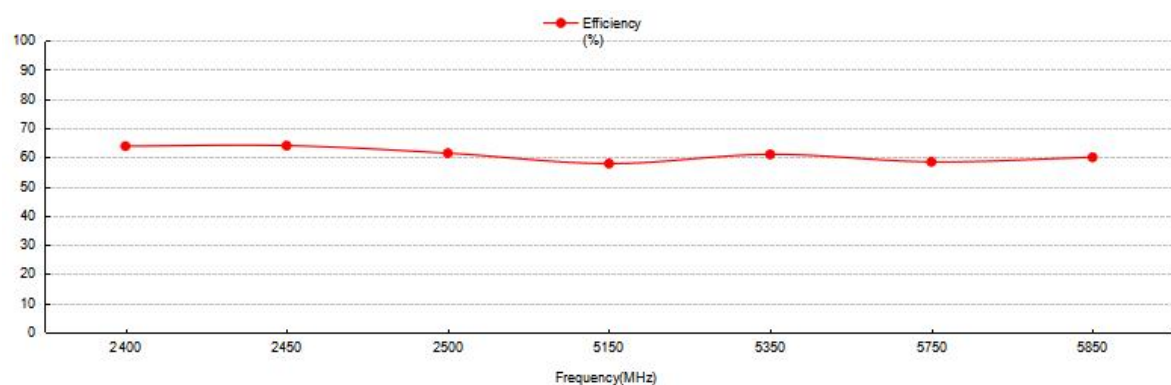
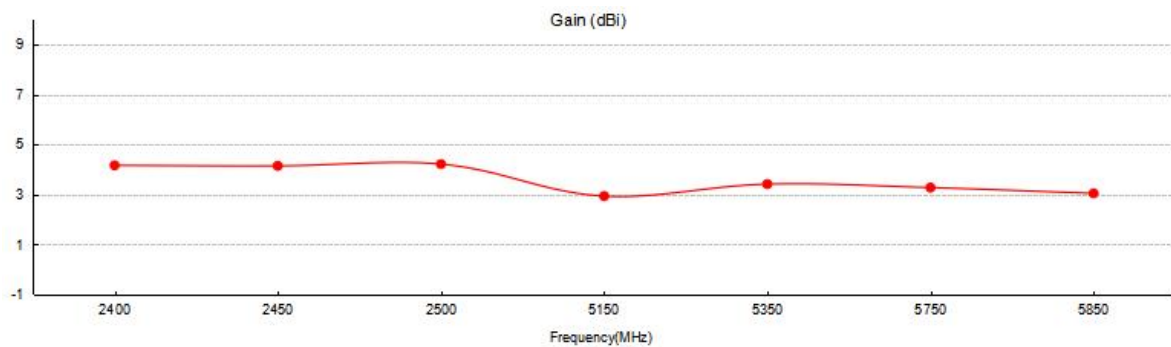
3. S Parameter



Frequency (MHz)	Return Loss (dB)	VSWR
2400	-18.92	1.26
2450	-27.49	1.08
2500	-17.63	1.31
5150	-19.61	1.23
5350	-13.43	1.24
5750	-20.26	1.21
5850	-24.24	1.13

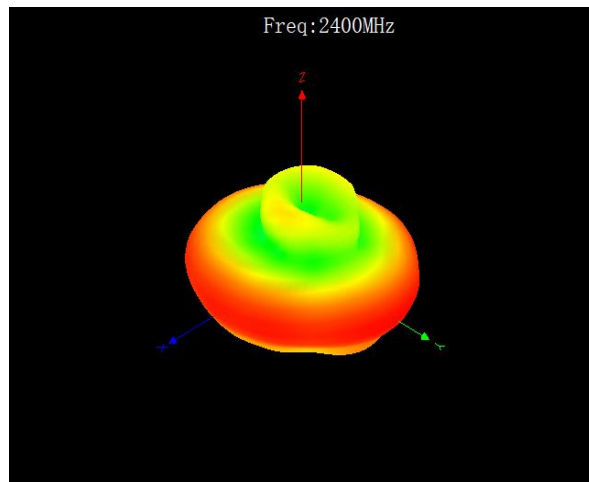
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	63.8	63.98	61.39	57.83	60.97	58.41	59.97
Gain (dBi)	4.17	4.15	5.00	2.94	3.42	3.28	3.05

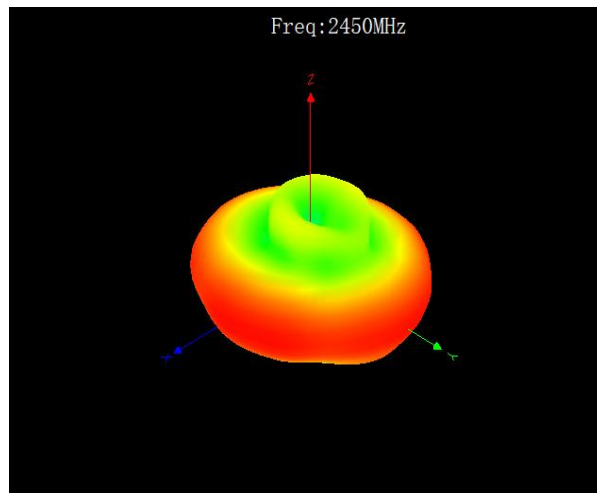


5. Radiation Pattern

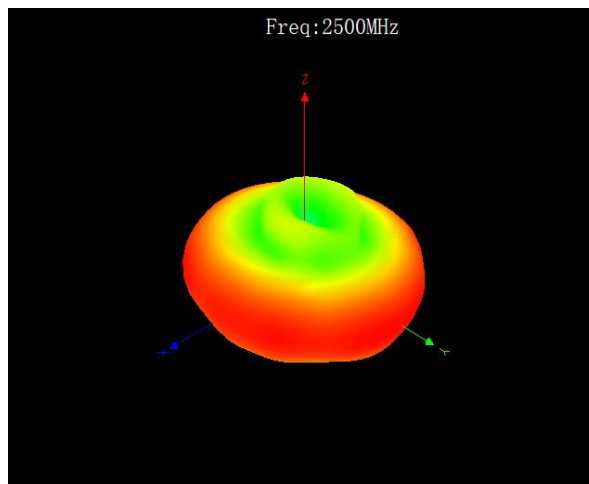
5-1 Antenna 3D Radiation Pattern



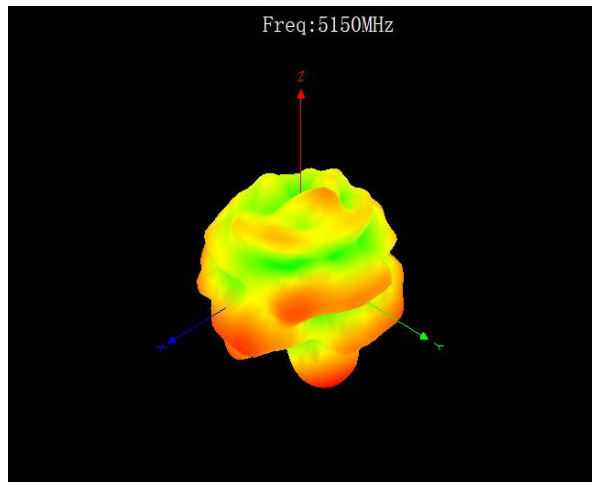
2400MHz



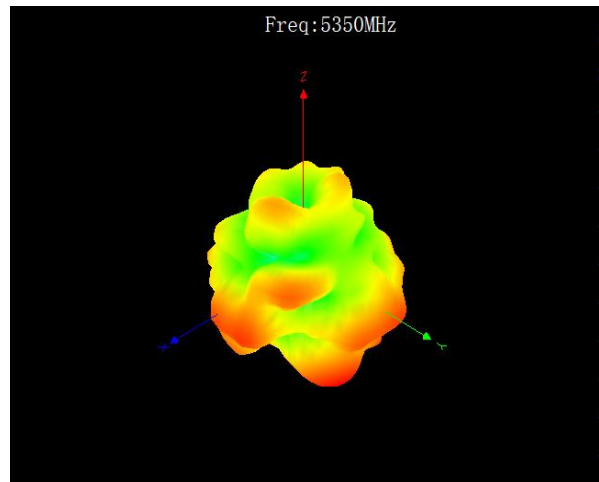
2450MHz



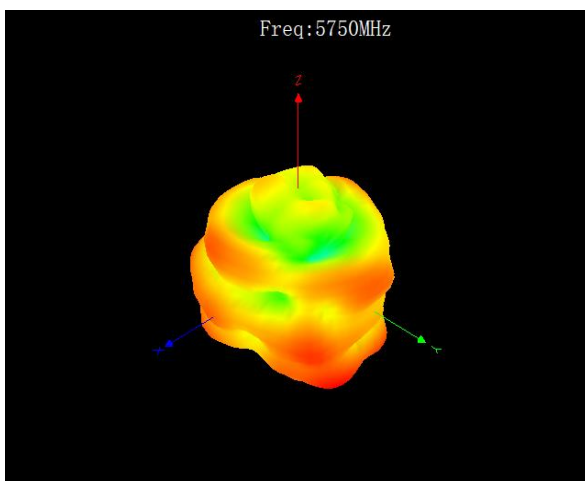
2500MHz



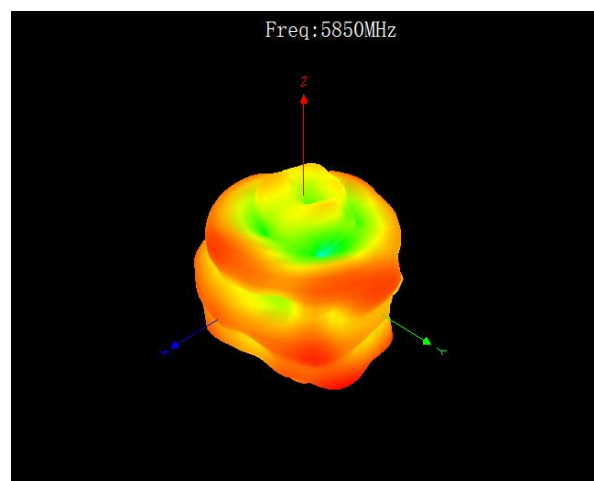
5150MHz



5350MHz

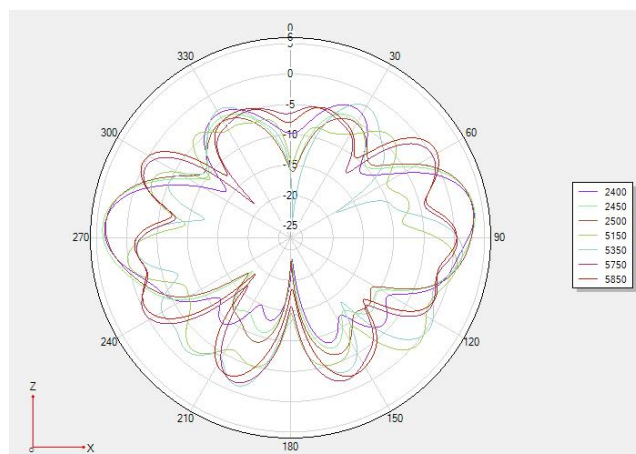


5750MHz

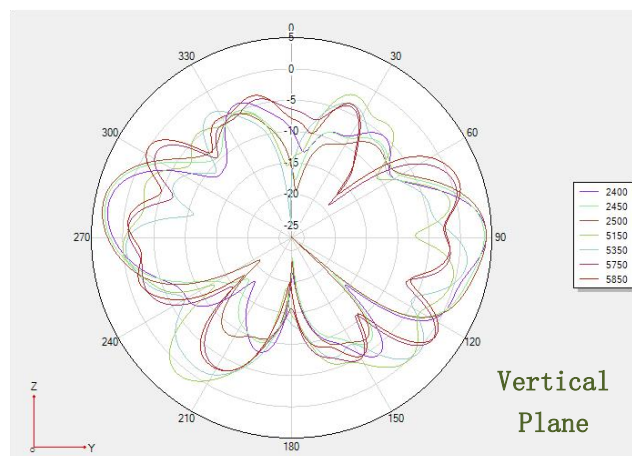


5850MHz

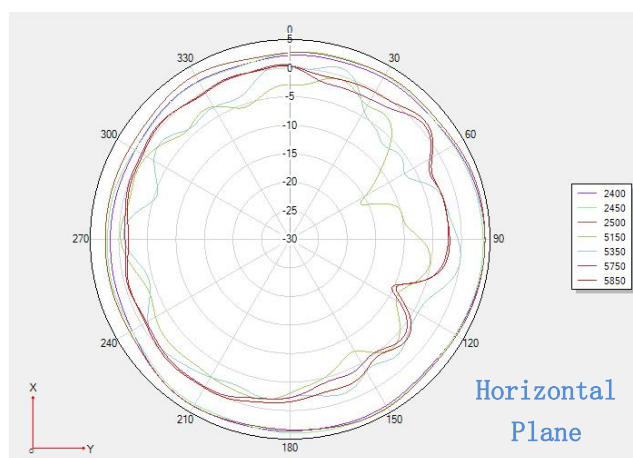
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

