



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

2.4/5.8G 双频 5 dBi 黑色真铆钉天线-1.13 黑色 L=11mm+剥线 1/1/2

PRODUCT

NAME:

客 户 料 号

CUSTOMER

P/N:

优比电子料号

Youbi

P/N:

UB02C15B5D5464A

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Lina	
APPROVED BY:	Yuefei.zhu	
DATE:	2024/9/11	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-9-11

Content

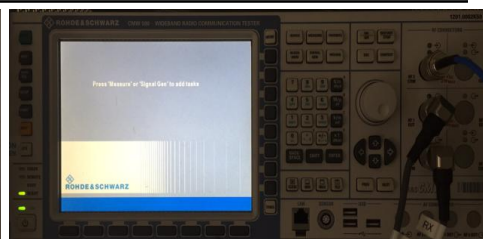
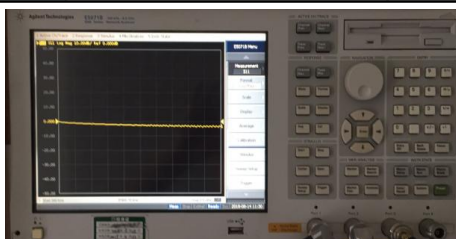
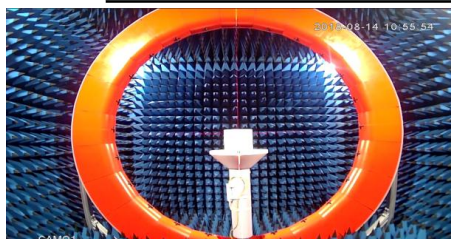
<i>Item</i>	<i>Description</i>
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2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	Ø11.4x183.5,L11	mm
Frequency	2400-2500/5150-5850MHz	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	5±1	dBi
Efficiency	>60	%
Connector Type	MHF-1-Plug	
Operating temperature	-40℃~+80℃	
Storage Temp	-40℃~+80℃	

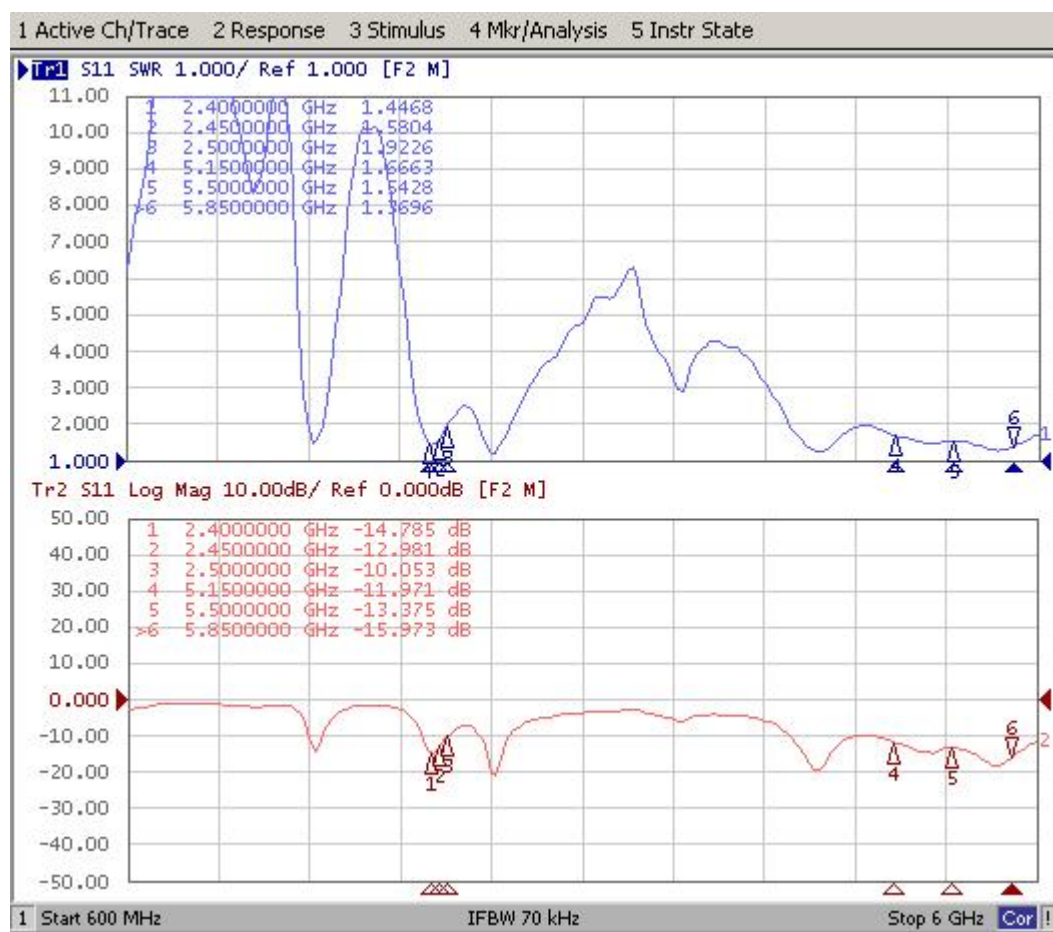
2. Test Items and Equipment

	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)

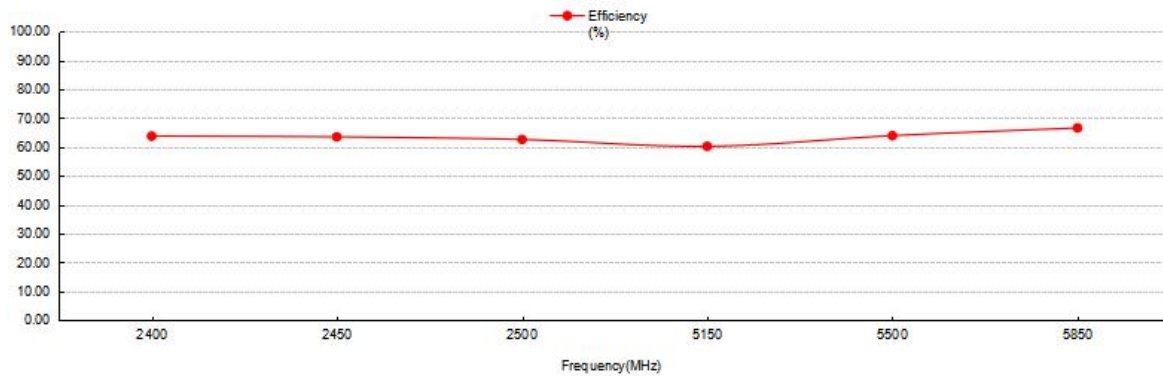
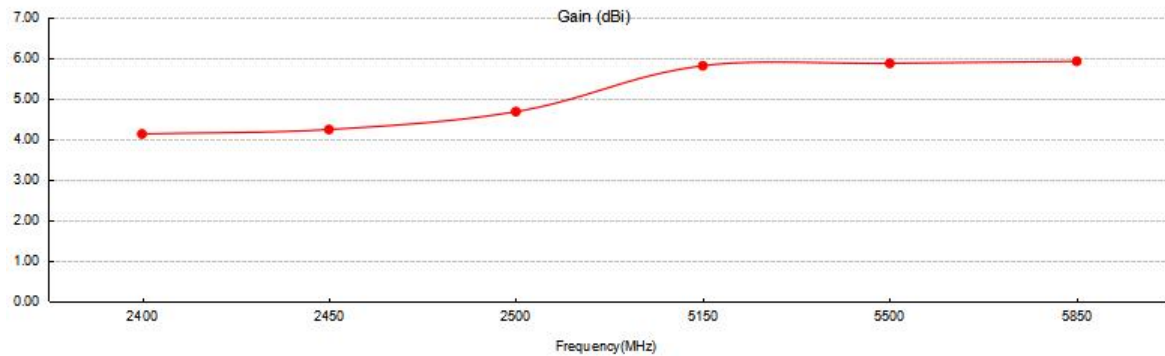


3. S Parameter

Frequency (MHz)	VSWR	Return Loss (dB)
2400	1.44	-14.78
2450	1.58	-12.98
2500	1.92	-10.05
5150	1.66	-11.97
5500	1.54	-13.37
5850	1.36	-15.97



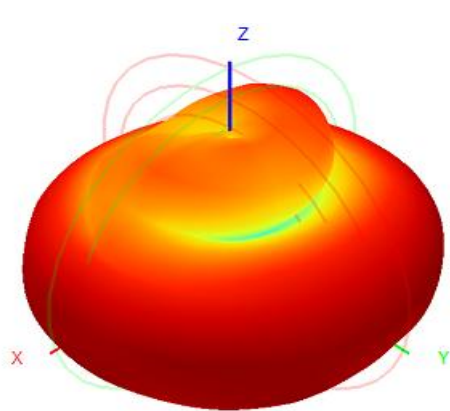
4. Efficiency and Gain



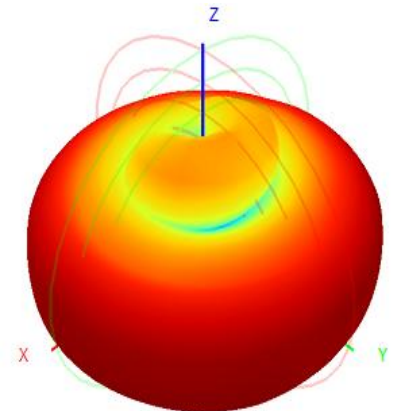
Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	63.78	63.52	62.60	60.25	63.94	66.61
Gain (dBi)	4.12	4.23	4.67	5.80	5.76	5.71

5. Radiation Pattern

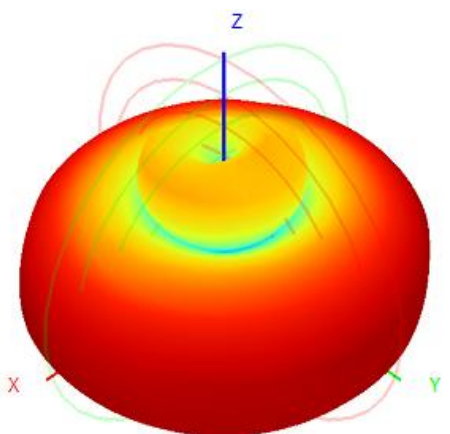
5-1 Antenna 3D Radiation Pattern



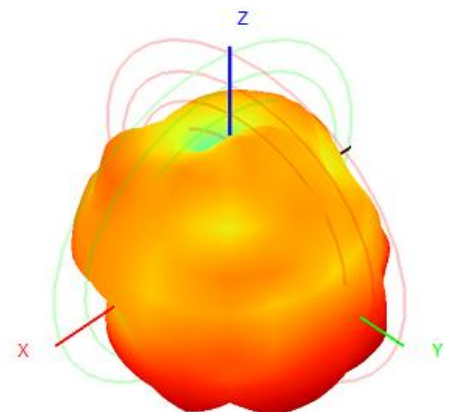
2400MHz



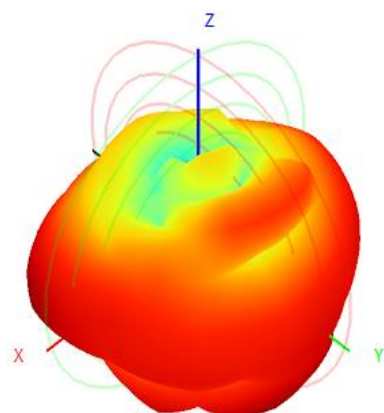
2450MHz



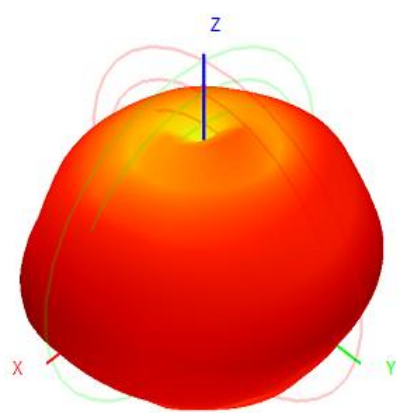
2500MHz



5150MHz

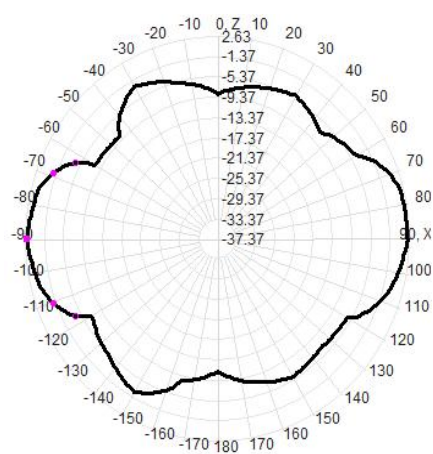


5500MHz

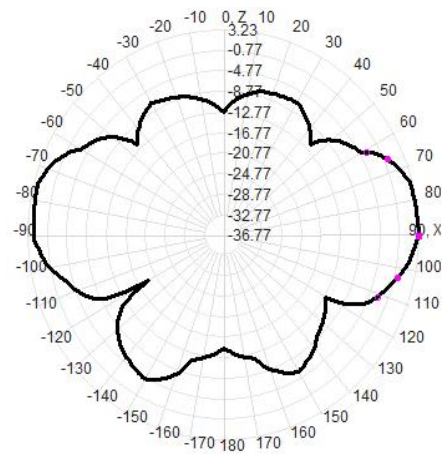


5850MHz

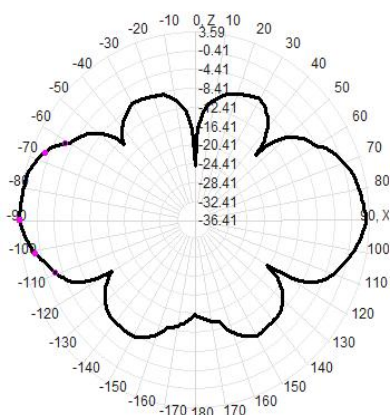
5-2 Antenna 2D Radiation Pattern



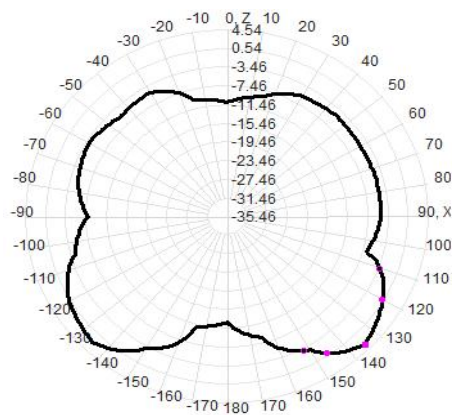
2400MHZ



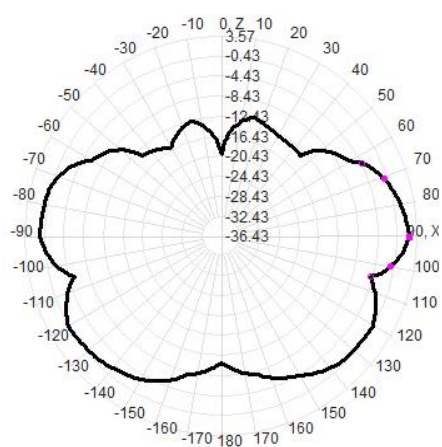
2450MHZ



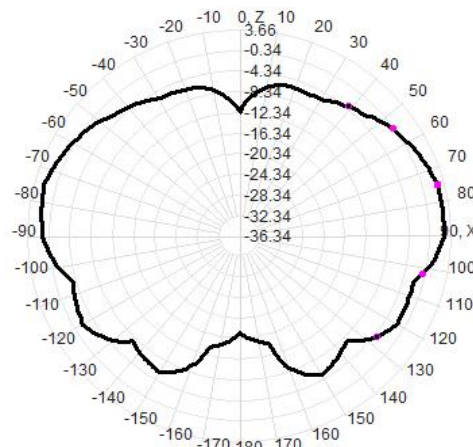
2500MHZ



5150MHZ



5500MHZ



5850MHZ

6. Mechanical Specification

