



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 W126 黑色天线+剥线 L=15mm

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	2024-9-111

Content

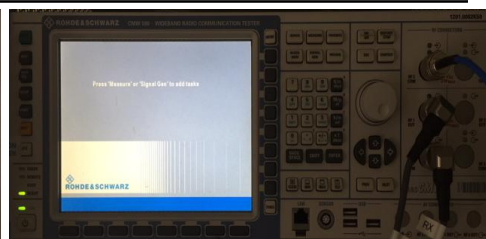
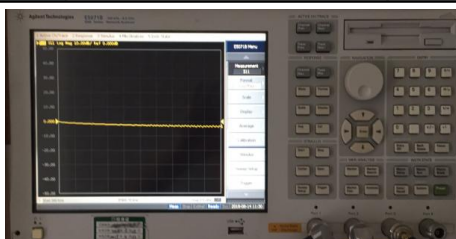
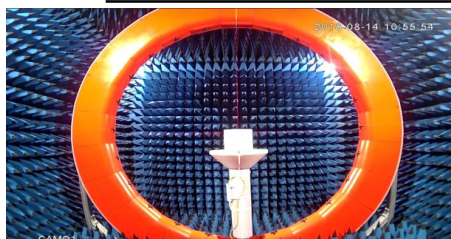
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	Ø11.4x183.5,L15	mm
Frequency	2400-2500/5150-5850MHz	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	4±1	dBi
Efficiency	>60	%
Connector Type	MHF-1-Plug	
Operating temperature	-40℃~+80℃	
Storage Temp	-40℃~+80℃	

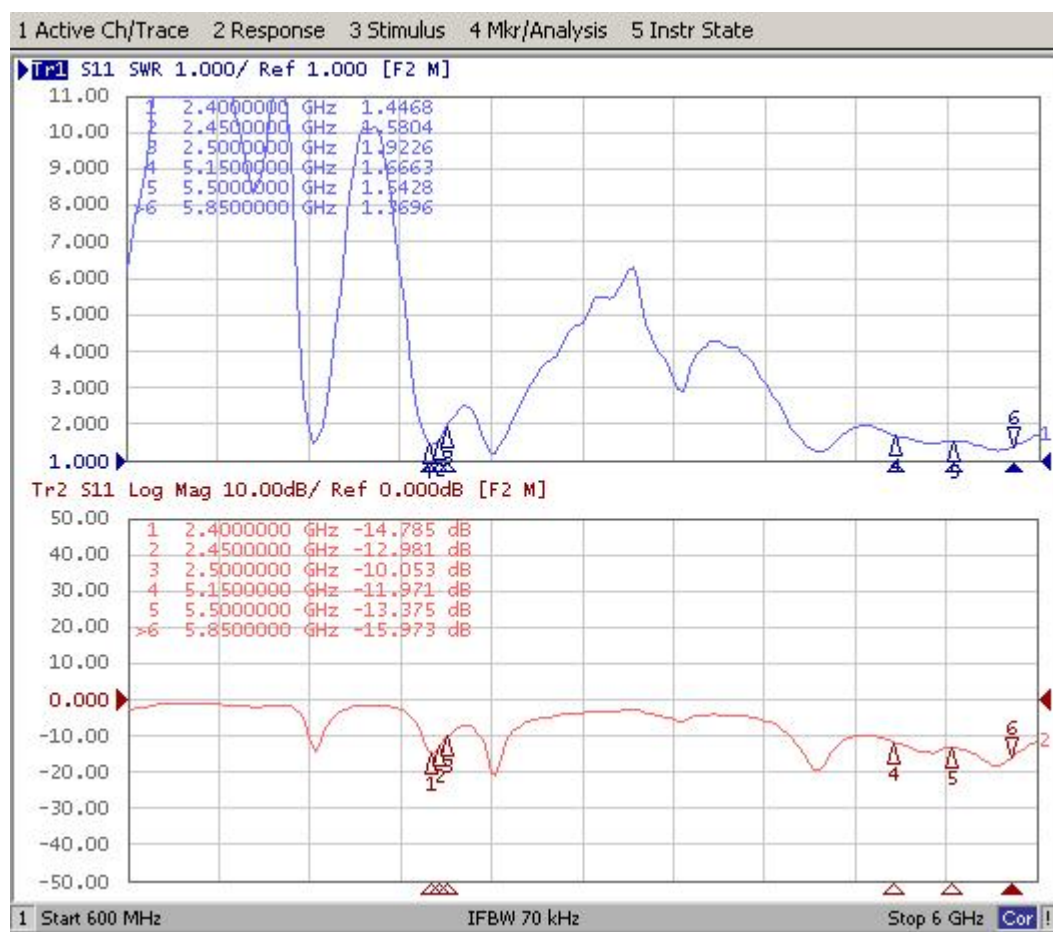
2. Test Items and Equipment

	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)

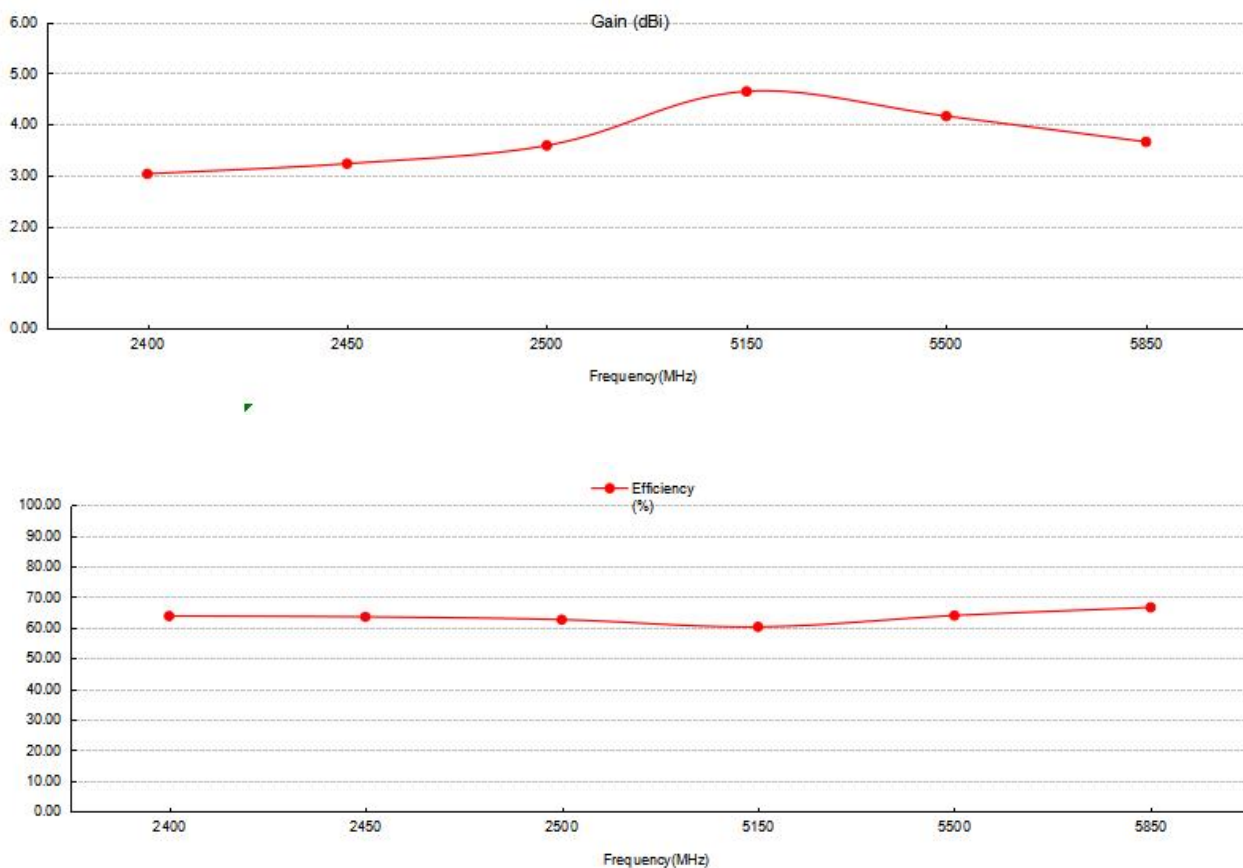


3. S Parameter

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



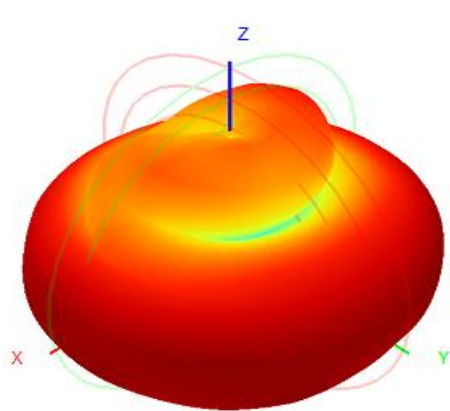
4. Efficiency and Gain



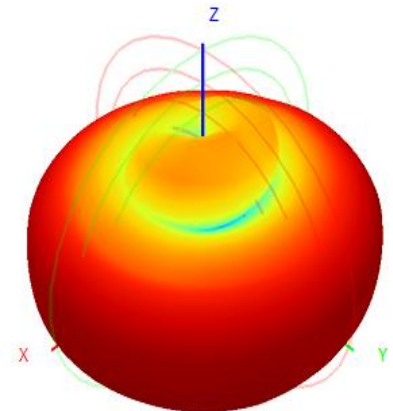
Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	63.78	63.52	62.60	60.25	63.94	66.61
Gain (dBi)	3.03	3.23	3.59	4.65	4.16	3.66

5. Radiation Pattern

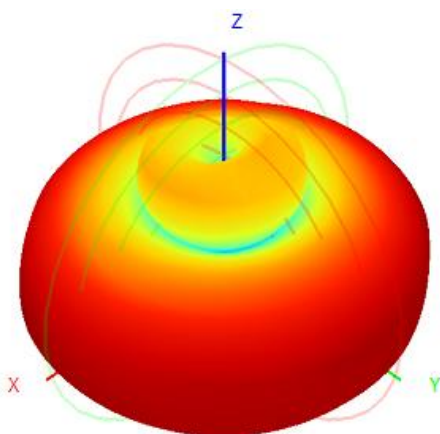
5-1 Antenna 3D Radiation Pattern



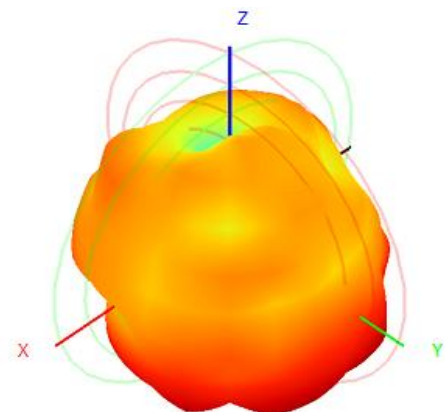
2400MHz



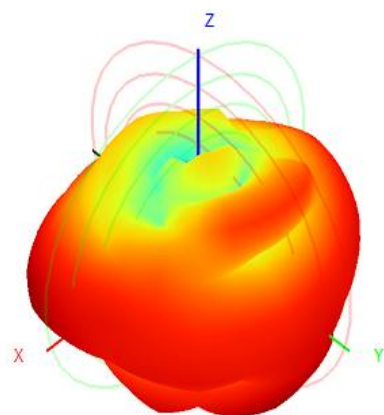
2450MHz



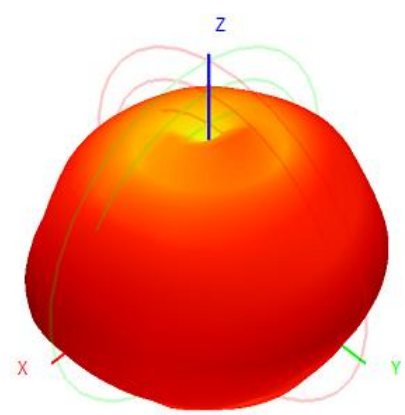
2500MHz



5150MHz

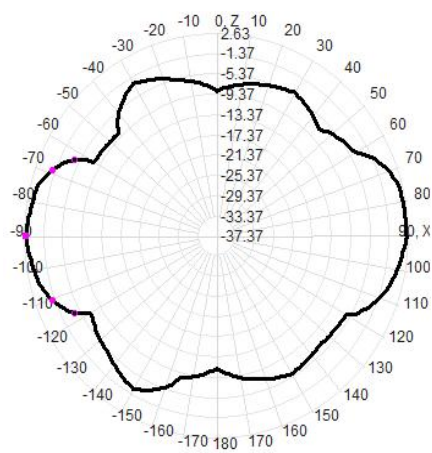


5500MHz

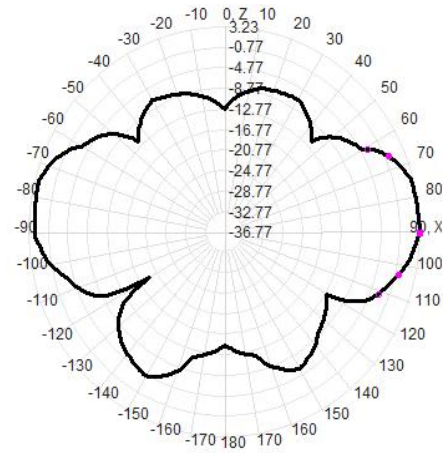


5850MHz

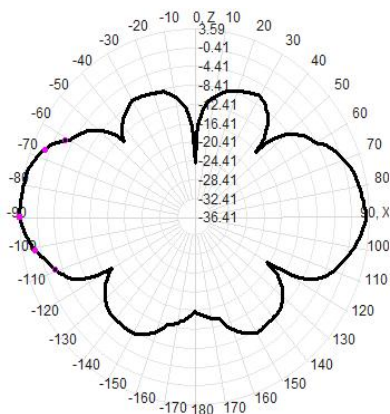
5-2 Antenna 2D Radiation Pattern



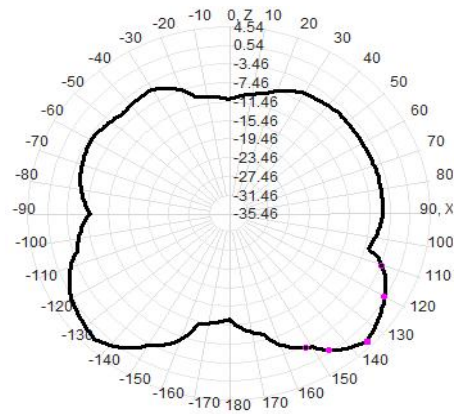
2400MHZ



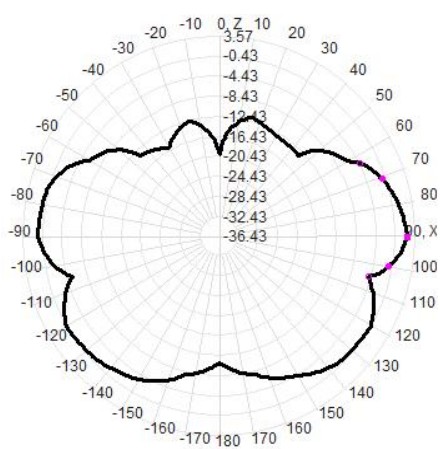
2450MHZ



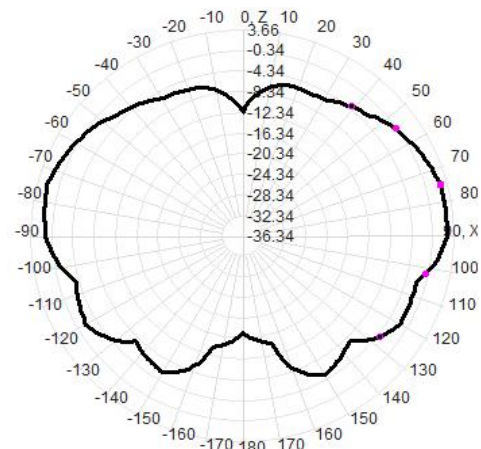
2500MHZ



5150MHZ



5500MHZ



5850MHZ

6. Mechanical Specification

ROHS

COMPLIANT

REV.	DESCRIPTION	ECN NO.	DATE	DRAFTER
A	First Sample	/	2024-8-21	刘中林

The diagram shows a side view of a 5G antenna assembly. Key dimensions include a total length of 183.5 ± 2 mm, a mounting hole diameter of 11.42 mm, and a distance from the mounting hole to the antenna element of 15 ± 2 mm. The antenna element itself has a length of 177 ± 2 mm. A detail view (DETAIL A) shows the antenna element with a 2 mm diameter and a 1 mm diameter hole, both with a tolerance of ± 0.3 mm. The detail view also shows a 19.6 ± 1 mm distance from the mounting hole to the antenna element, and a 2.05 ± 0.3 mm distance from the mounting hole to the antenna element. The detail view is labeled SCALE: 4/1.

7	铆钉	POM,黑色	2
6	泡棉	EVA,黑色	1
5	弹簧	黄铜	1
4	PCB	FR-4	1
3	杆套	ABS, 黑色	1
2	下固定座	PC+PBT, 黑色	1
1	线材	L13线材, 黑色	1

GENERAL TOLERANCE:		CUST. P/N:	
LINEAR:		TITLE:	
X.XX		2. 4/5. 86 W126黑色天线+铜线 L=15mm	
X		±0.25	
XX		±0.3	
XXX		±0.5	
ANGLE:		±2.0	
		±0.5°	
		P/N: UB02C15B5D5464A	
		REV. A	
		UNITS mm	
		SCALE 1 : 1	
		APPR.: 朱月飞	
		CHECK.: 黄锡林	
		DRAW.: 刘中林	

Specification:
Frequency Rang:2400-2500/5150-5850MHz
Return Loss:-9dB Max
VSWR:1.92:1 Max

UANT®

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