

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: Yunlian Youke

产 品 名 称 5.8G W98 white short bottom fixed antenna

PRODUCT NAME: L=145mm stripped wire 1.0 * 1.5 * 2.5

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C170W5D2203A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2022/06/17	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Sam	2022-06-17

Content

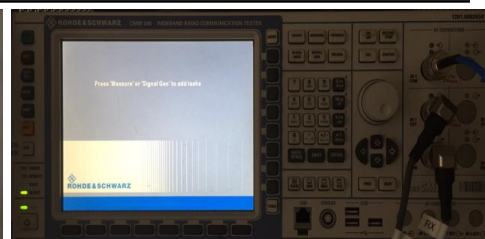
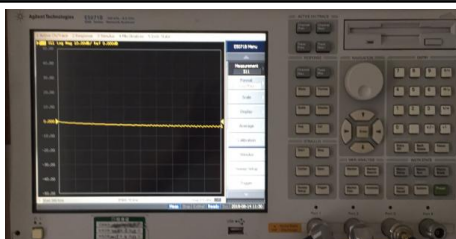
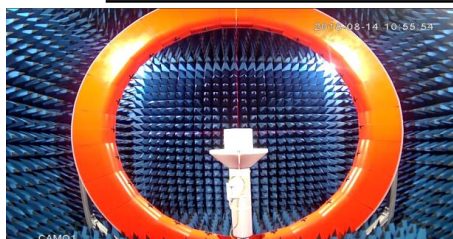
<i>Item</i>	<i>Description</i>
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3.-----	S Parameter
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6.-----	Mechanical Specification
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1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.57x191,L145	mm
Frequency	5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	5.0 ± 1	dBi
Efficiency	>70	%
Connector Type	OPEN 1/1.5/2.5	
Operating temperature	$-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
Storage Temp	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$	

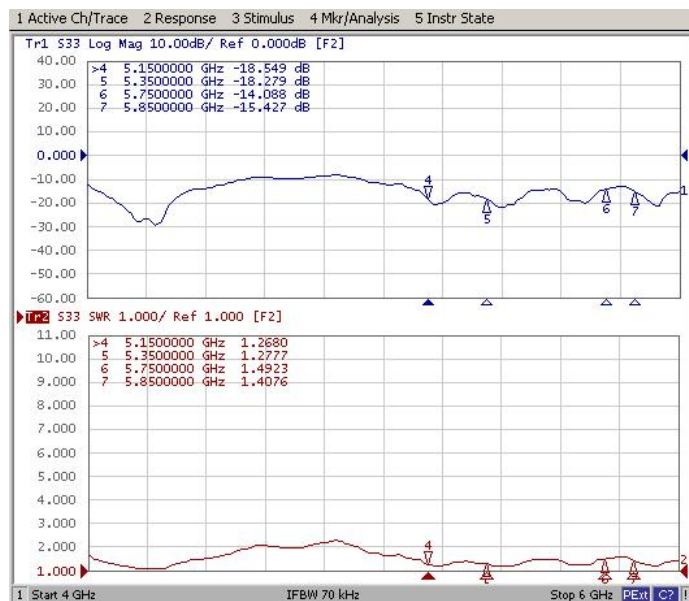
2. Test Items and Equipment

	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
5150	-18.54	1.26
5350	-18.27	1.27
5750	-14.08	1.49
5850	-15.42	1.40



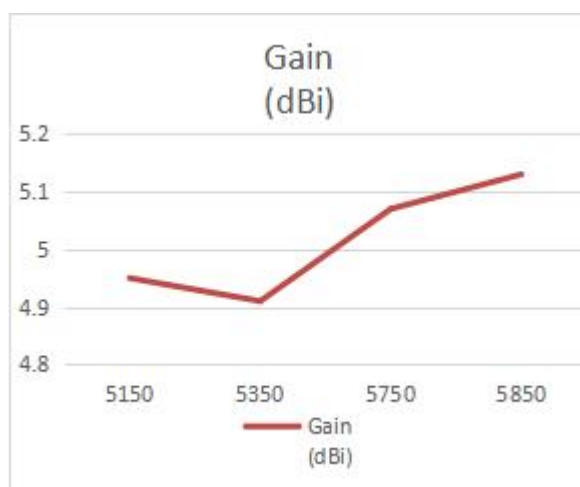
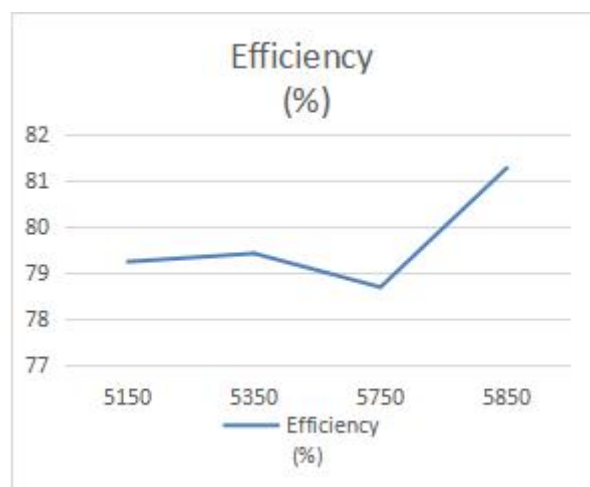
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

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

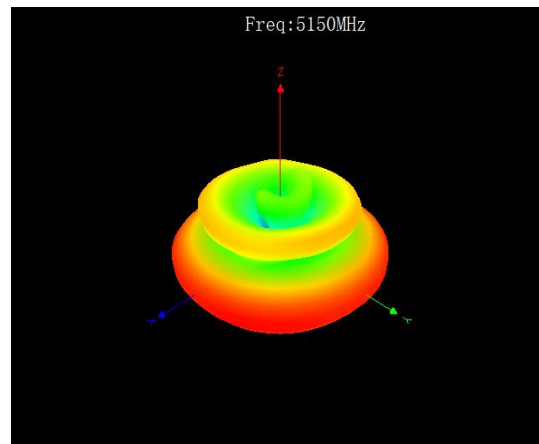
4. Efficiency and Gain

Frequency (MHz)	5150	5350	5750	5850
Efficiency (%)	79.25	79.43	78.7	81.28
Gain (dBi)	4.95	4.91	5.07	5.13

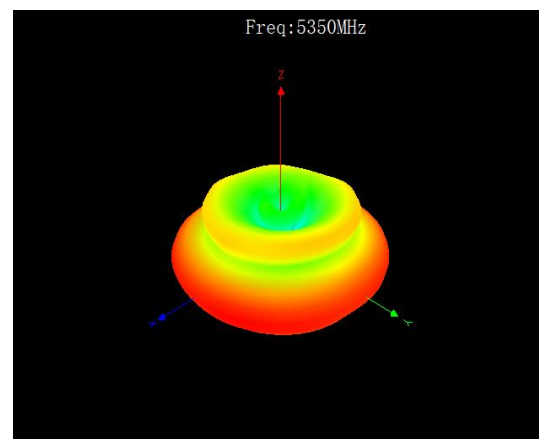


5. Radiation Pattern

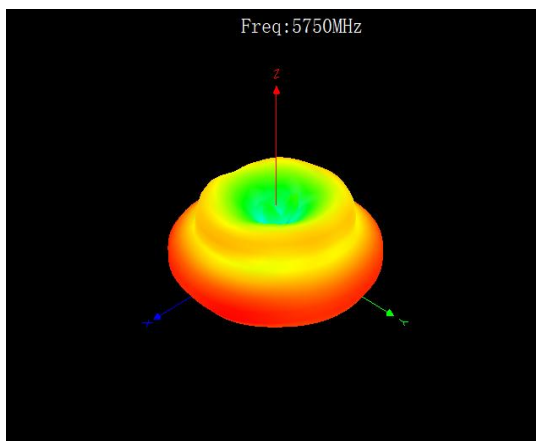
5-1 Antenna 3D Radiation Pattern



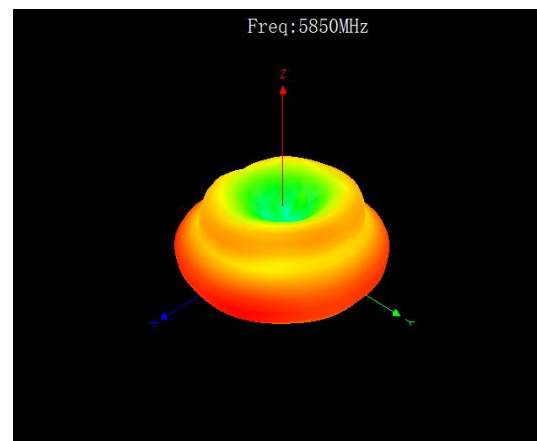
5150MHz



5350MHz

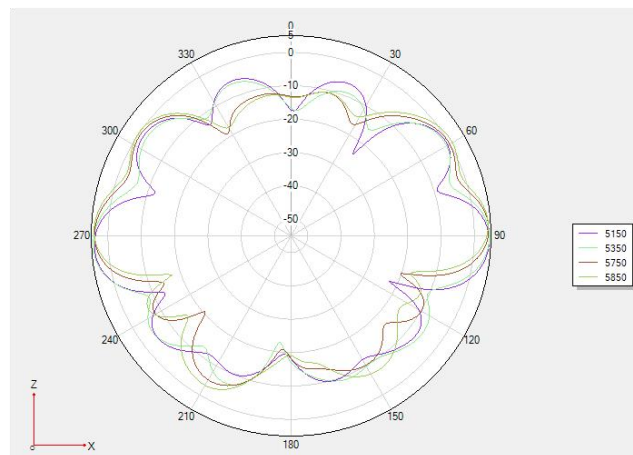


5750MHz

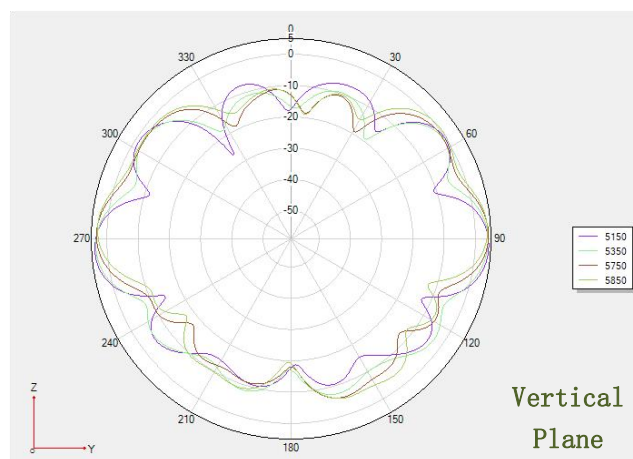


5850MHz

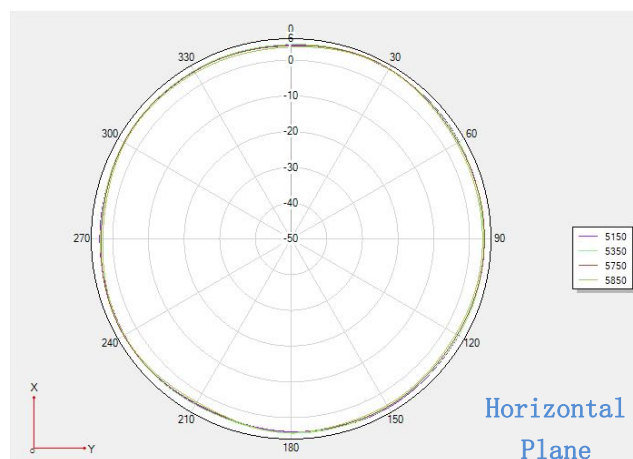
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

