



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

PRODUCT NAME: Antenna_Black WiFi Halow_2dBi_Omnidirection
50 Ω _SMA _915MHz _NA_200mm

客 户 料 号

CUSTOMER P/N: 1015020043

优比电子料号

Youbi P/N: UB02S186B3D1293A REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2024/7/16	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-5-22
B	Extra plug	Sam	2024-7-16

Content

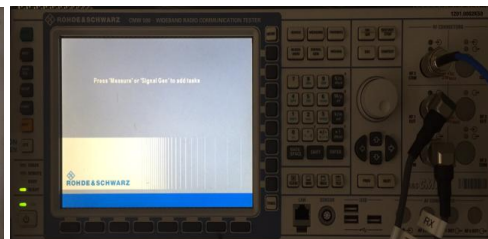
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1.Electrical Specification:

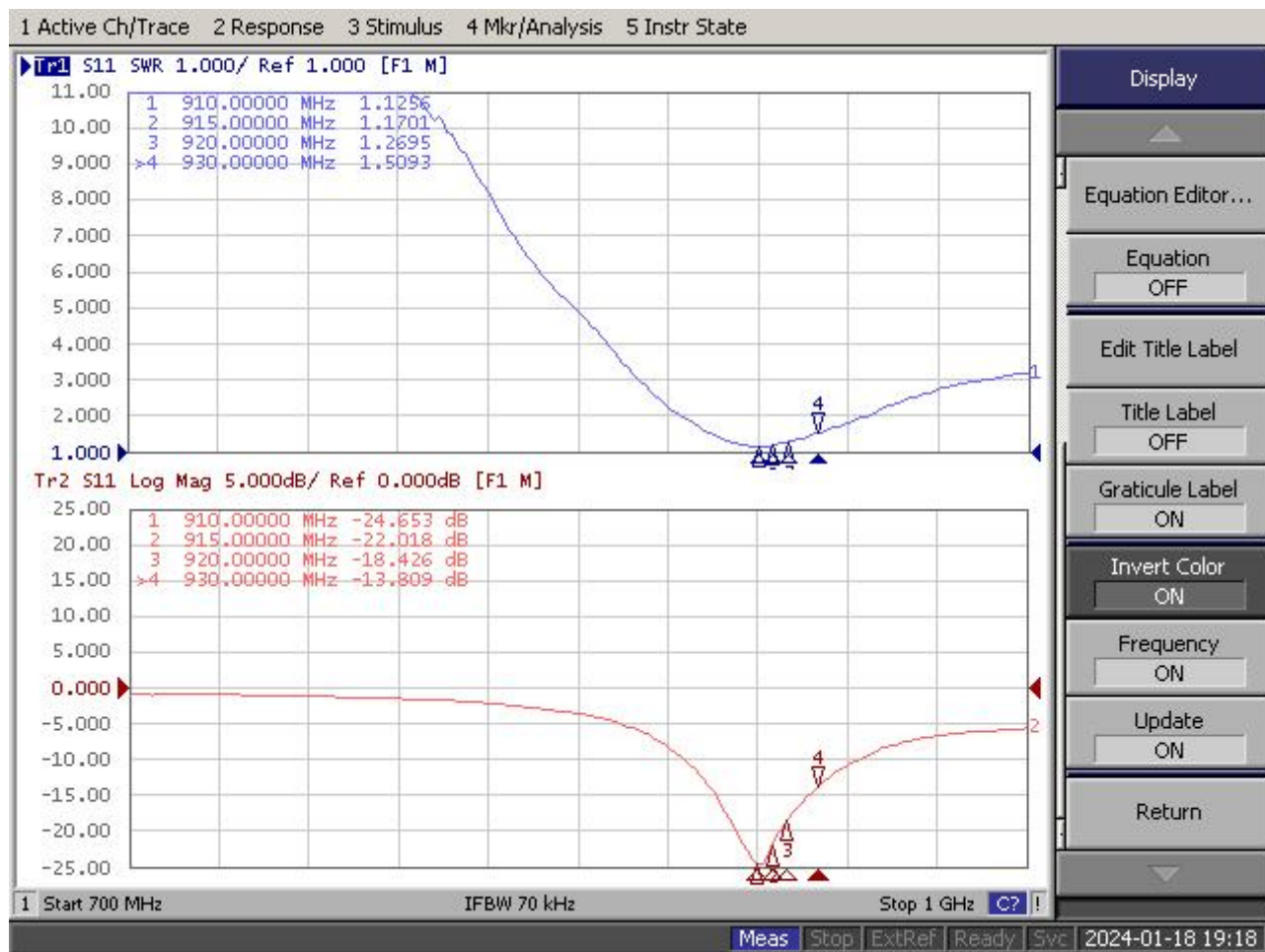
Characteristics	Specifications	Unit
Outline Dimensions	200 x Ø 13mm	mm
Frequency	900-930	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	2±0.5	dBi
Efficiency	> 70	%
Connector Type	SMA	
Operating temperature	-40℃~+85℃	
Storage Temp	10℃~40℃	
Apparent salt spray	48/H	H

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)

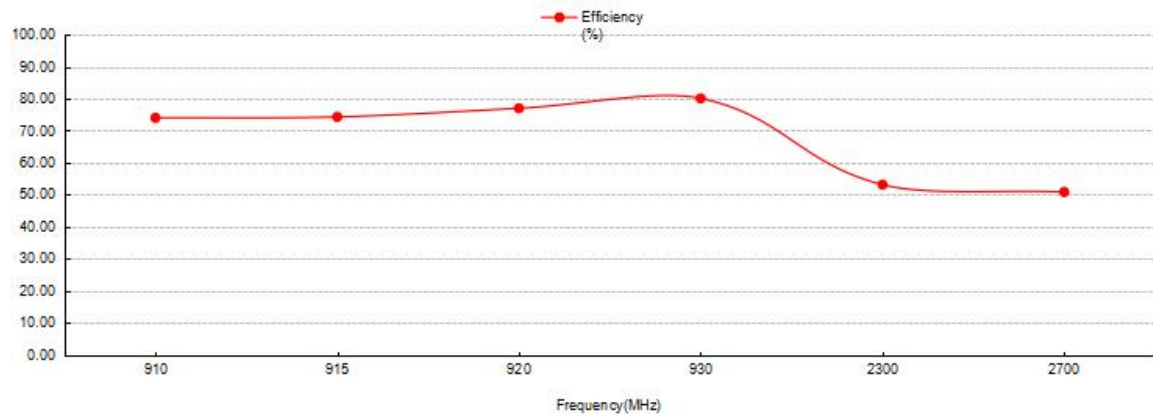
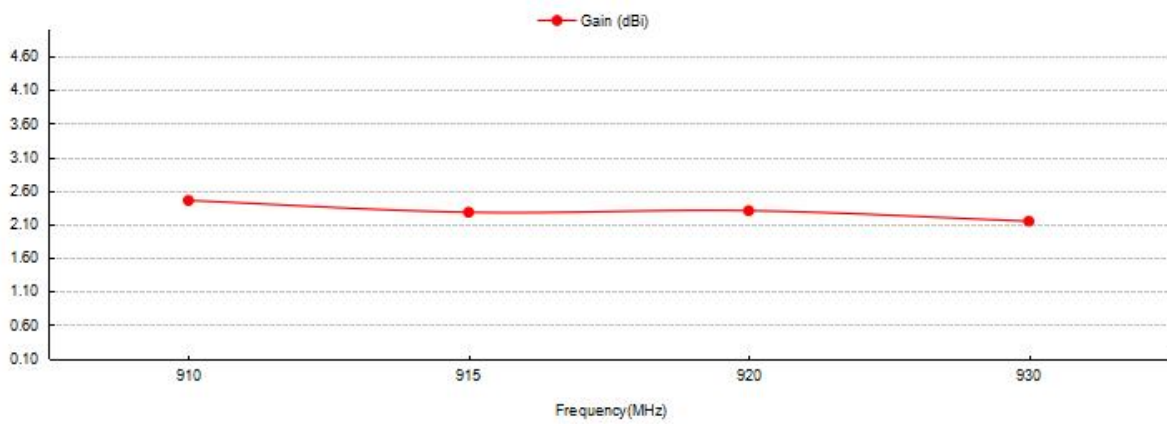


3. S Parameter



Frequency (MHz)	910	915	920	930
Return Loss (dB)	-24.65	-22.01	-18.42	-13.80
VSWR	1.12	1.17	1.26	1.50

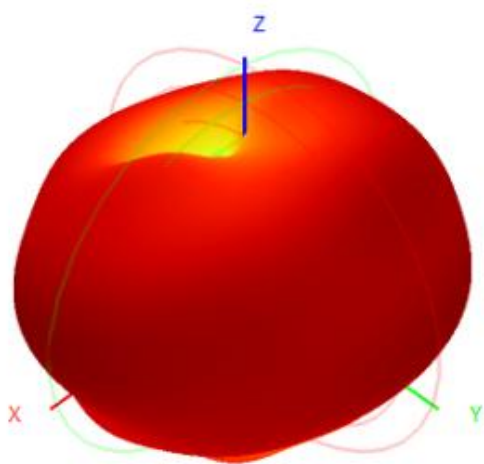
4. Efficiency and Gain



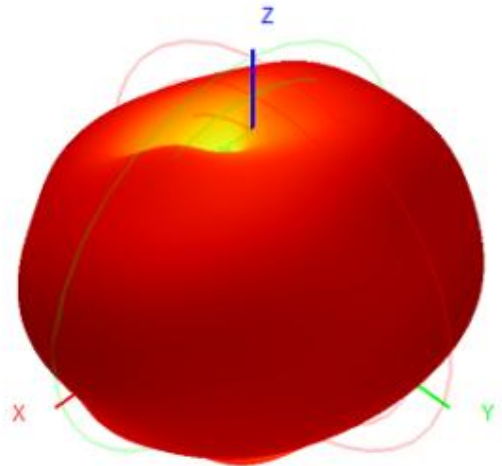
Frequency (MHz)	910	915	920	930
Efficiency (%)	73.98	74.28	76.96	80.06
Gain (dBi)	2.45	2.28	2.30	2.14

5. Radiation Pattern

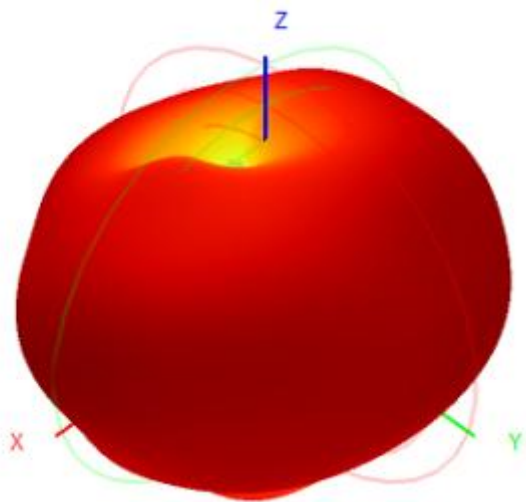
5-1 Antenna 3D Radiation Pattern



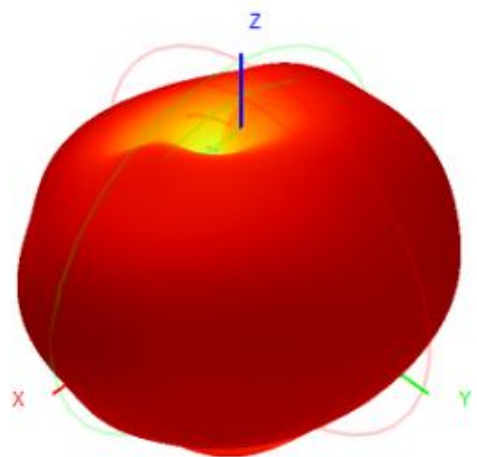
910MHz



915MHz

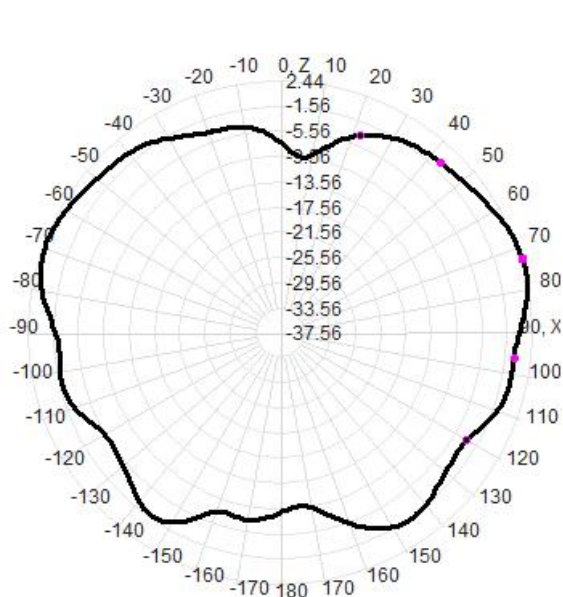


920MHz

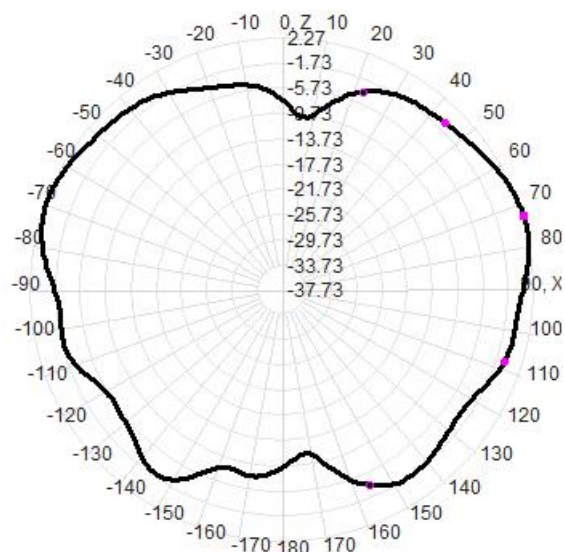


930MHz

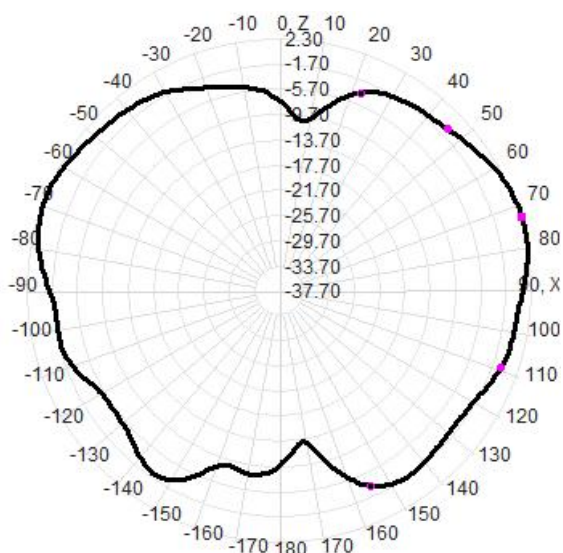
5-2 Antenna 2D Radiation Pattern



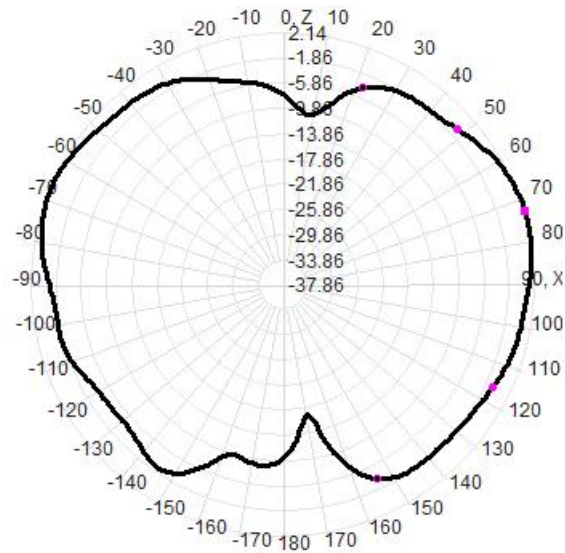
910MHz



915MHz



920MHz



930MHz

6. Mechanical Specification:

