

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER NAME:

Alcidae

产品名称

PRODUCT NAME:

2.4G ANT

客户料号

CUSTOMER P/N:

Item: HQ5C/HQ5C 2K/HQ8C/HQ8C 2K

优比电子料号

Youbi

P/N:

UB06000613A

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:		

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Mark	2022-2-21
B	Thickness change	Mark	2022-5-21



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

Content

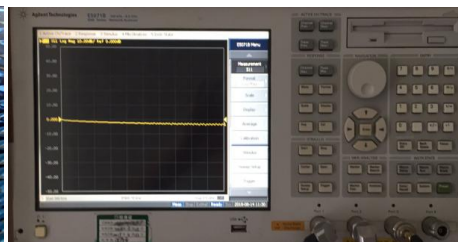
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Active test data
7.-----	Antenna installation diagram
8.-----	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	17.0x10.7x3.2xT0.4	mm
Frequency	2400~ 2500	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	2.65	dBi
Efficiency	>50	%
Connector Type	DIP	
Operating temperature	-20 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-20 $^{\circ}$ C~+50 $^{\circ}$ C	

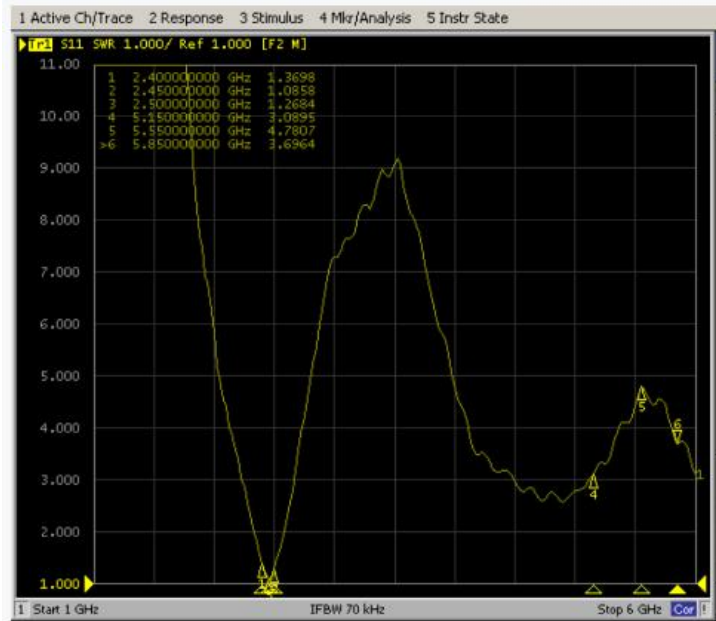
2. Test Items and Equipment

	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

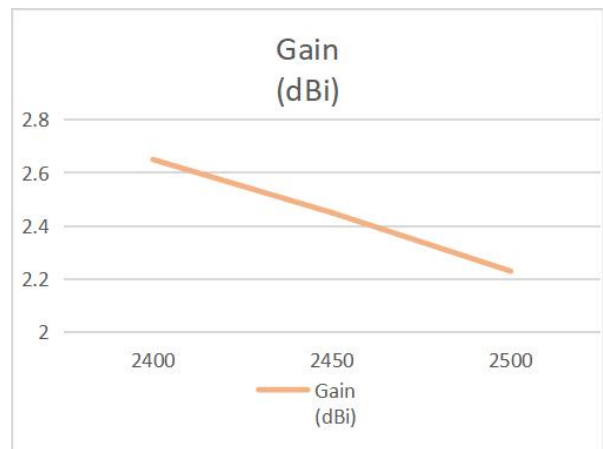
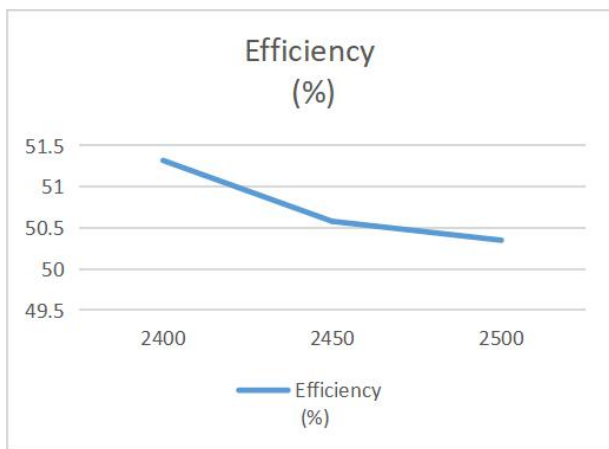
Frequency (MHz)	R L (dB)	VSWR
2400	-16.13	1.36
2450	-27.71	1.08
2500	-18.53	1.26



* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

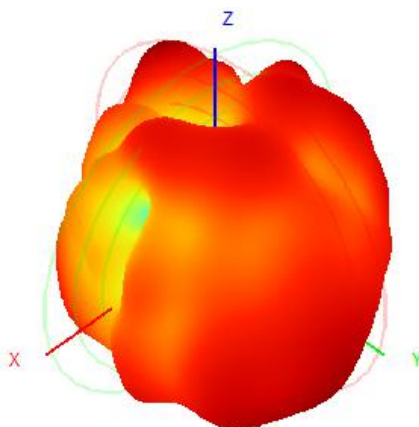
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	51.32	50.58	50.35
Gain (dBi)	2.65	2.45	2.23

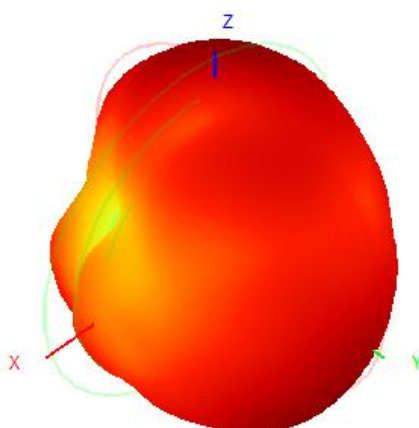


5. Radiation Pattern

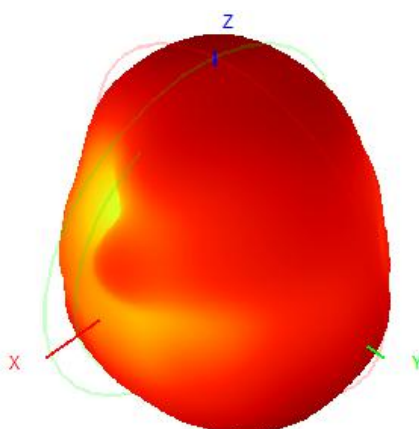
5-1 Antenna 3D Radiation Pattern



2400MHz

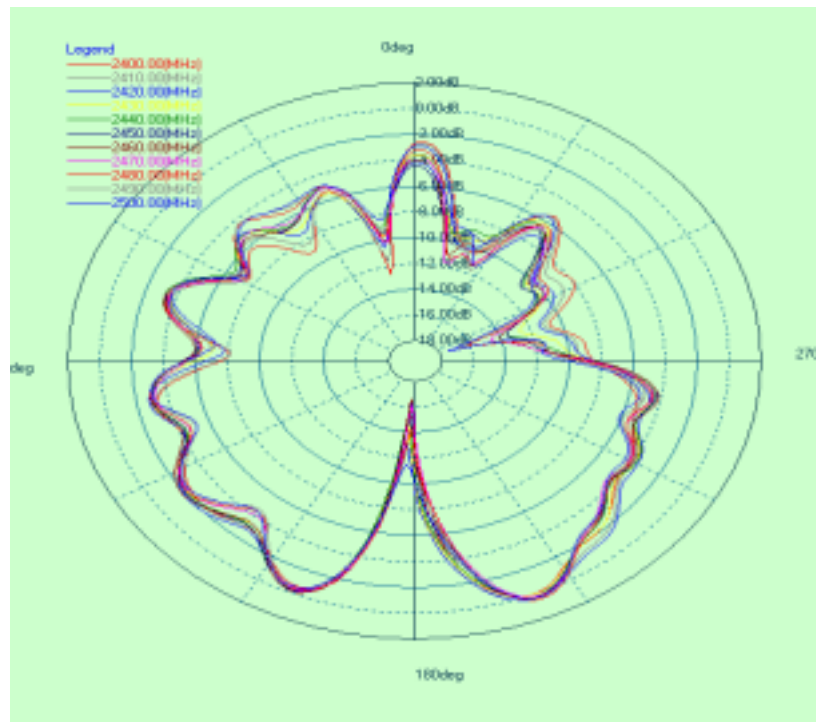


2450MHz

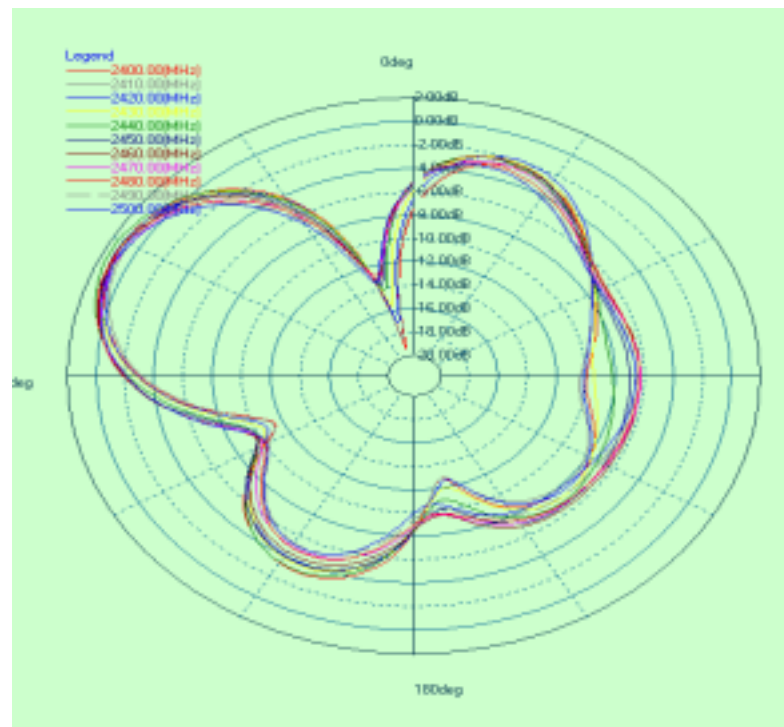


2500MHz

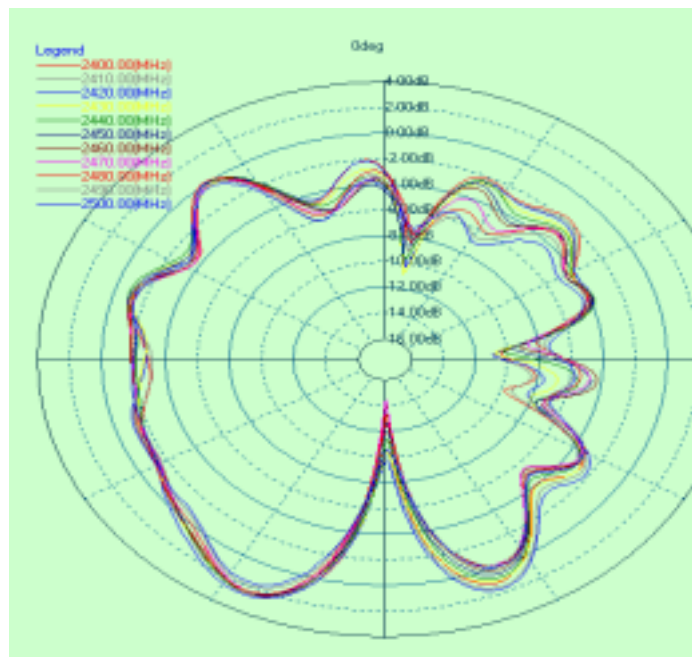
5-2 Antenna 2D Radiation Pattern



2400MHz



2500MHz



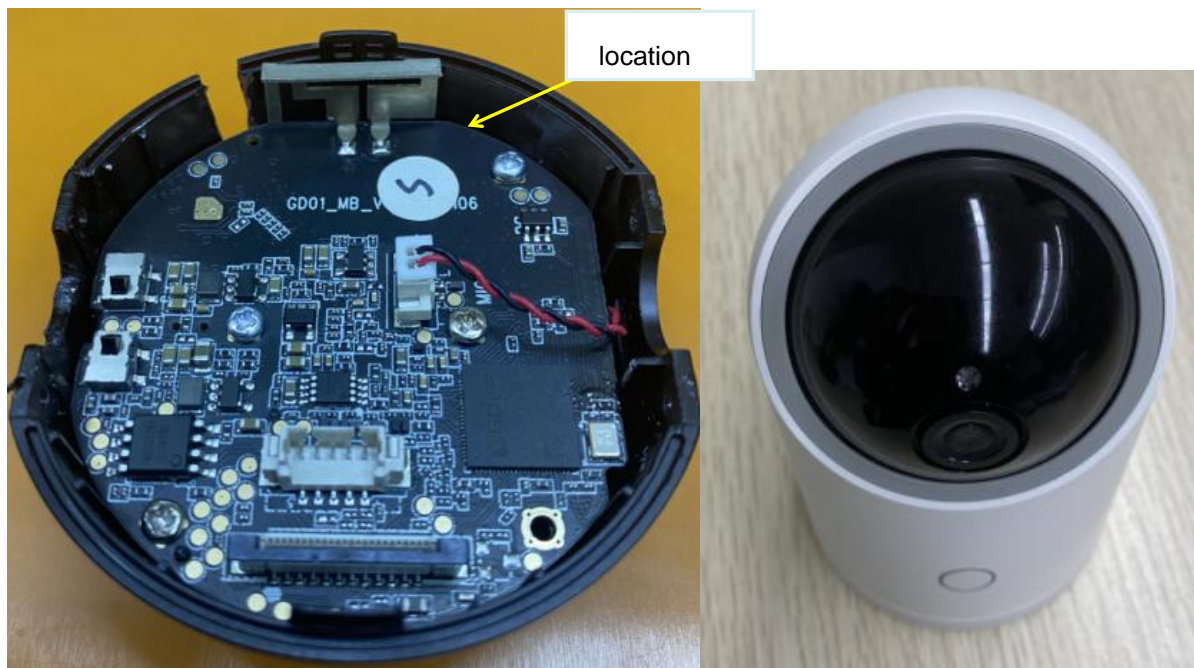
2500MHz

6.Active test data

Antenna complete machine test

Item	Measurement	Total
1	TRP	12.85
2	TRP	13.23
3	TRP	14.19
4	TIS(EIRP)	-71.17
5	TIS(EIRP)	-70.56
6	TIS(EIRP)	-70.35

7. Antenna installation diagram:



8. Mechanical Specification:

