APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME: 2.4G PCB A N T

CUSTOMER P/N:

Youbi P/N: UB01NP3D1A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	Changxing.Liu	
DATE:	2023/8/15	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2023-8-15

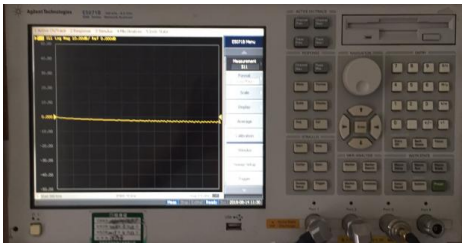
Content

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	13x10.9x0.6	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 3	
Polarization	Linear Polarization	
Gain	1.74	dBi
Efficiency	>40	%
Connector Type	RF 2	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

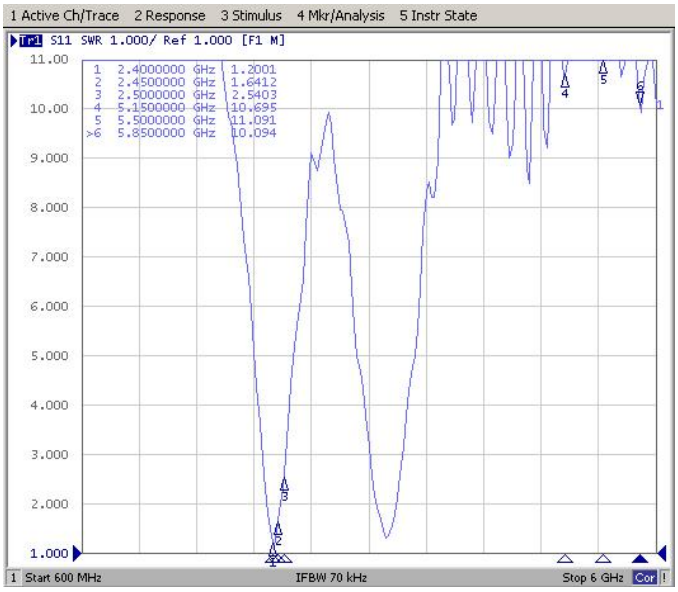
2.Test Items and Equipment

	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

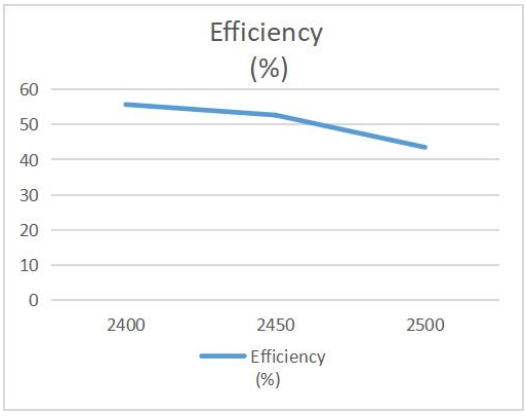
Frequency (MHz)	VSWR
2400	1.20
2450	1.64
2500	2.54

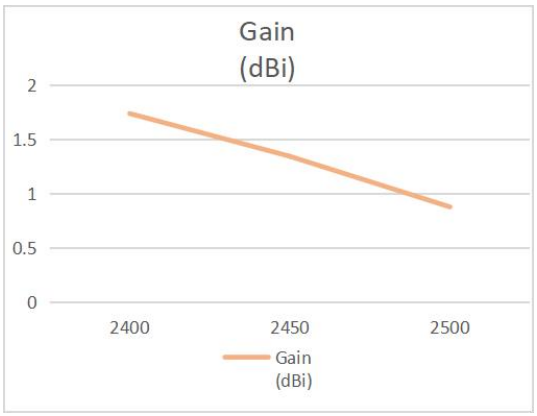


* Voltage Standing Wave Ratio(VSWR)
  Return Loss(RL)
  RL=20*log10[(VSWR+1)/(VSWR-1)

4. Efficiency and Gain

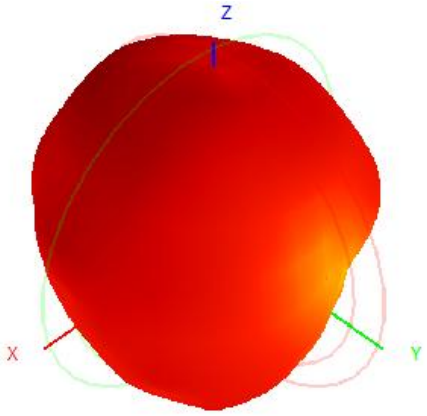
Frequency (MHz)	2400	2450	2500
Efficiency (%)	55.69	52.67	43.48
Gain (dBi)	1.74	1.35	0.88



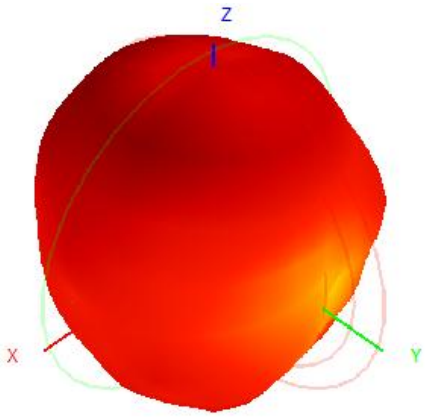


5. Radiation Pattern

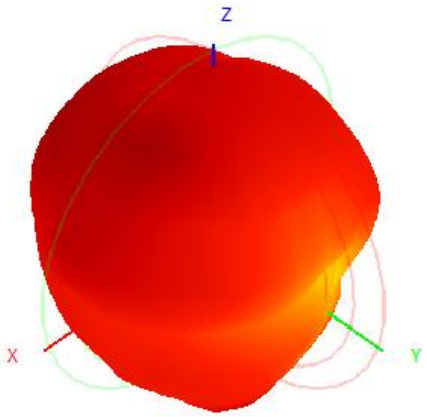
5-1 Antenna 3D Radiation Pattern



2400MHz

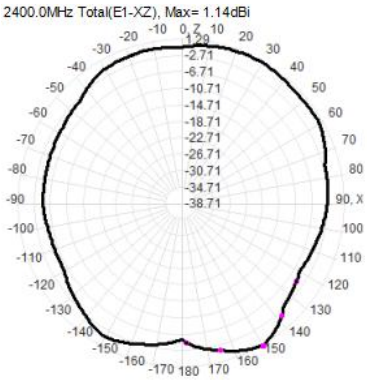


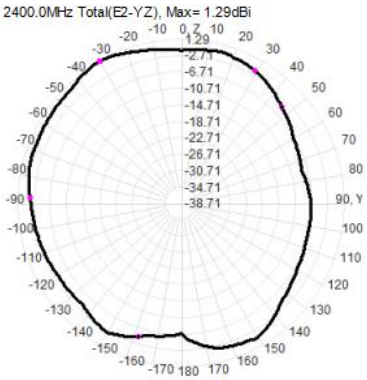
2450MHz

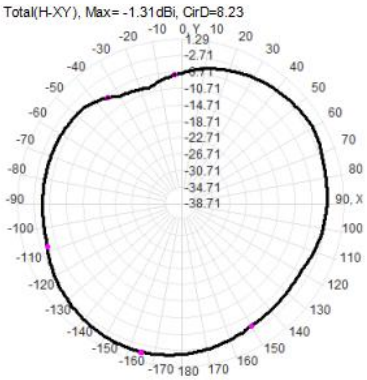


2500MHz

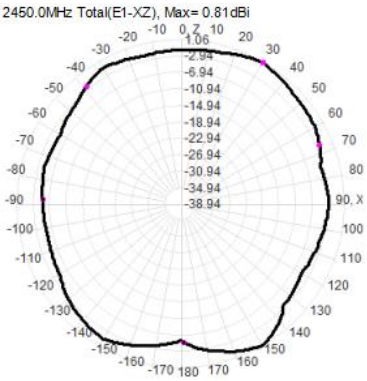
5-2 Antenna 2D Radiation Pattern

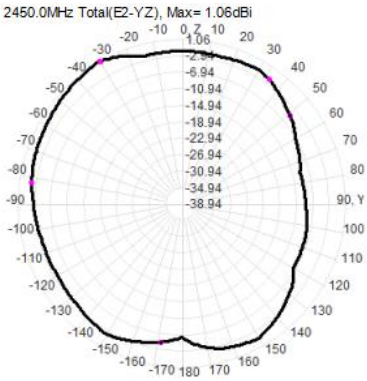


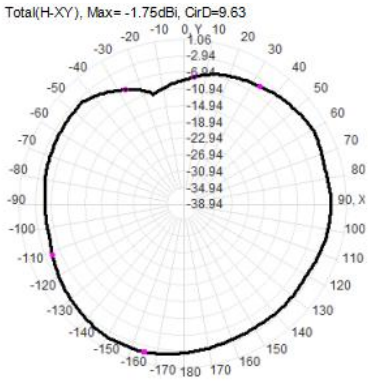




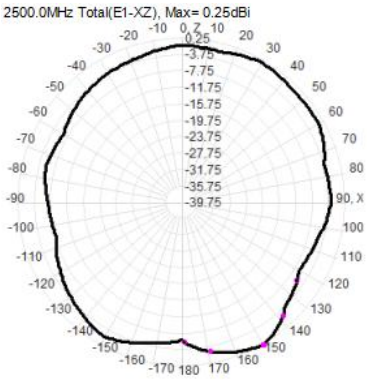
2400MHz

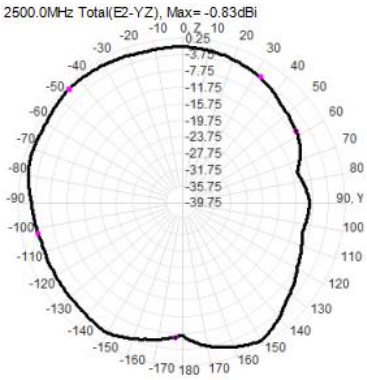


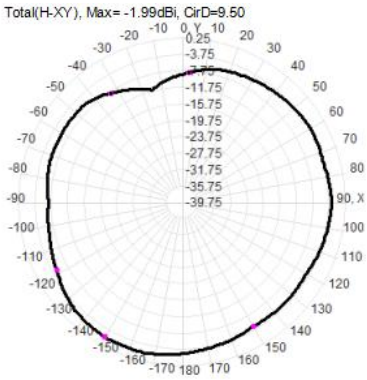




2450MHz

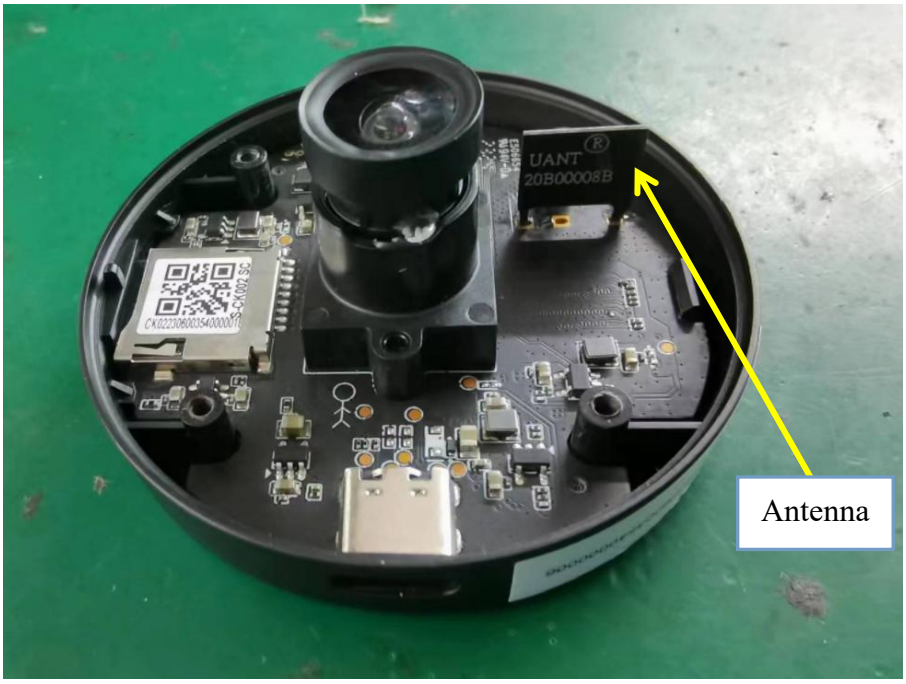






2500MHz

6. Antenna installation diagram



7.Mechanical Specification