

Specification

CUSTOMER NAME:

PRODUCT NAME: TPA08-M3 ZIGBEE-ANTENNA L=70mm

CUSTOMER P/N:

UB P/N: UB01C70P2D4686A REV: A

PRODUCER NAME: Youbi

Dongguan Youbi Electronics Co.,LTD, Room 101,Building 2,No.9,
PRODUCER ADDRESS: Xinfu Road,Lin Village,Tangxia Town, Guangdong province

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Wenqiang. Xiong	
APPROVED BY:	Kangjun. Xu	
DATE:	2024/11/13	

1. Specification table:

Electrical Specification	
Design Specifications	Types
Antenna Type	PIFA antenna
Operating Frequency	2400-2500MHz
Peak Gain	0.64
Average Efficiency	37.11%
Return Loss	< -10
Polarization	Linear
Radiation pattern	Omnidirectional
Impedance	50 ohm
Power handling	1W
Interface	Cable+terminal
Overall dimensions	30.8*17.9*0.35mm
Operating Temp.	-20°C~+70°C
Storage Temp.	-20°C~+70°C
Test Standard	ANSI/IEEE Std 149-1979
Test Location	Dongguan Youbi Electronics Co.,LTD Room 101,Building 2,No.9, Xinfu Road,Lin Village,Tangxia Town

2. Test Configurations

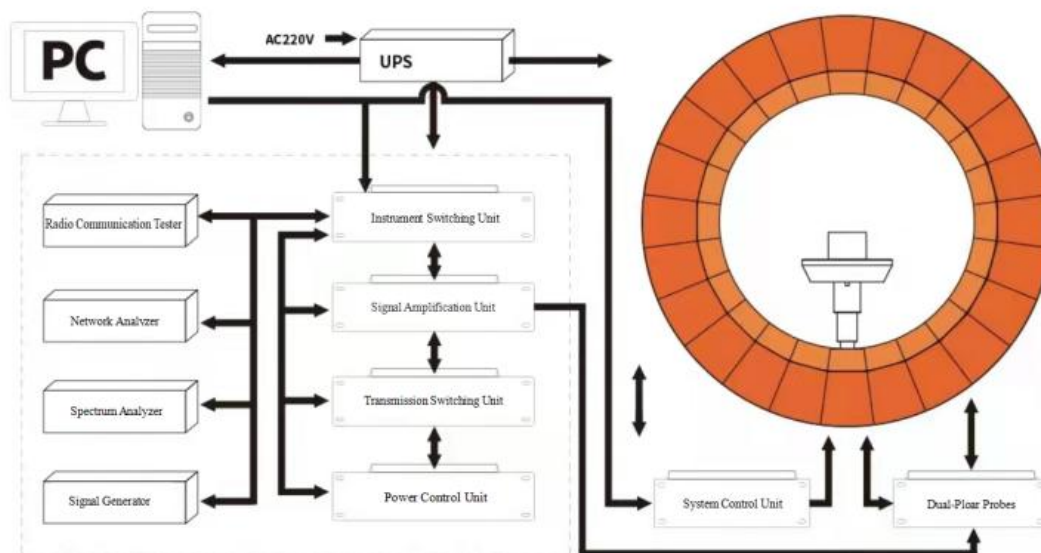
2.1 Test Environment

Temperature (°C)	25.4
Humidity (%RH)	54
Atmospheric Pressure (kPa)	100.3

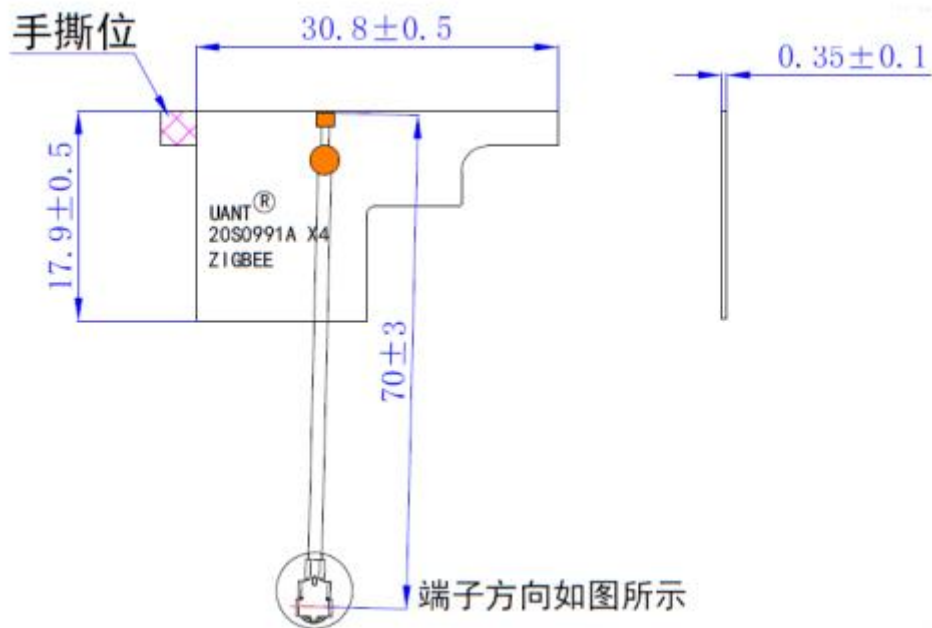
2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B
Calibration Validity	2025-08-19
Test Software	Passive Test 
Software Version	V2.7.0

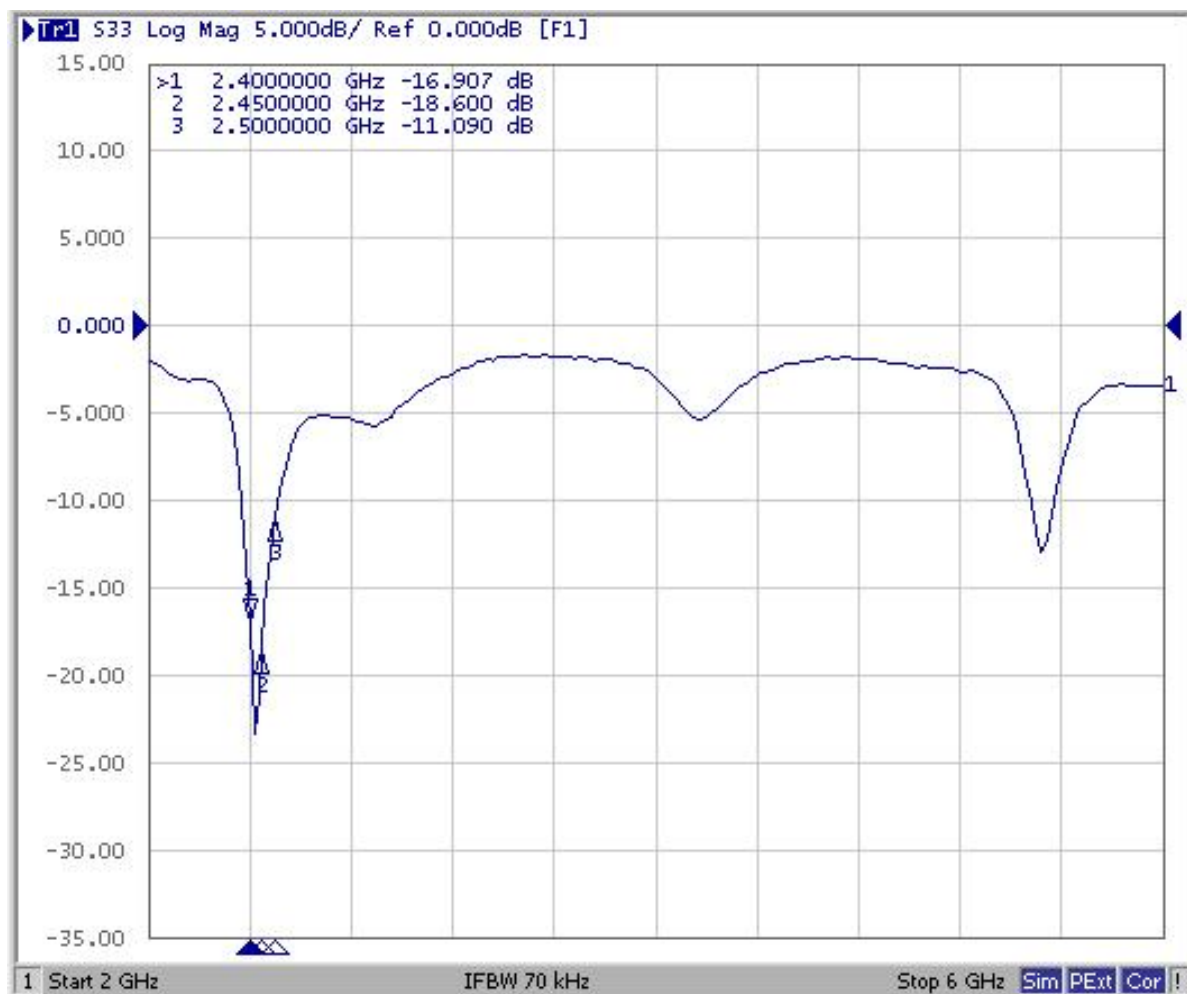
2.3 Test Principle



3. Mechanical Specification



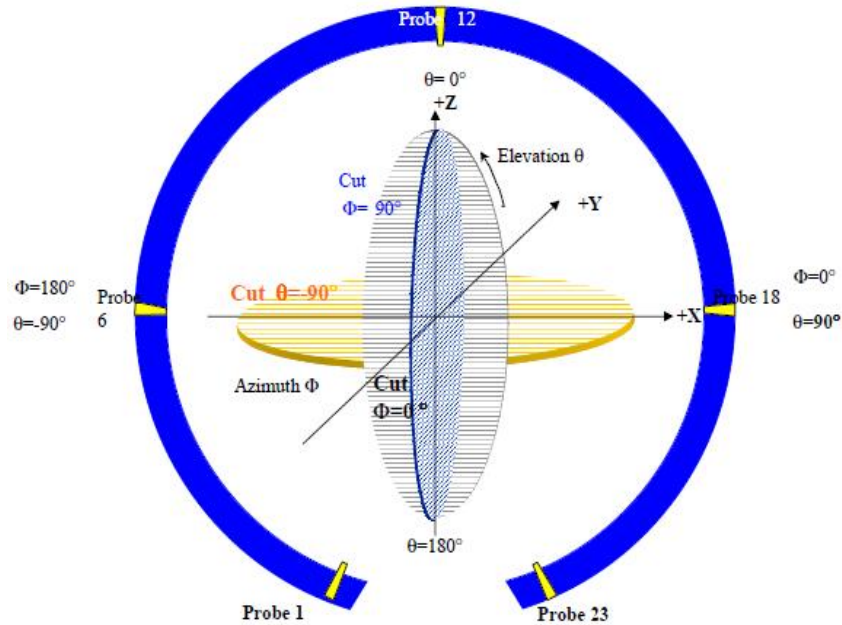
3.2: Darkroom 2D、3DRaditation Pattern

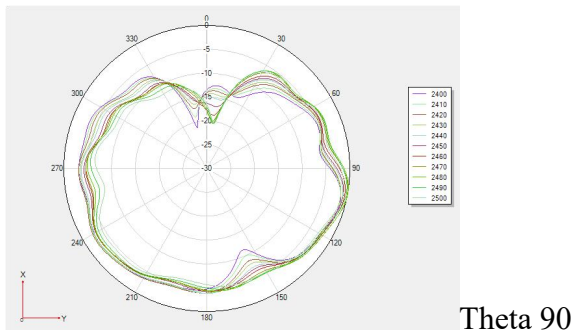
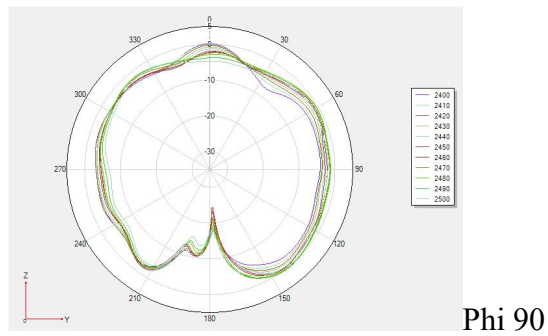
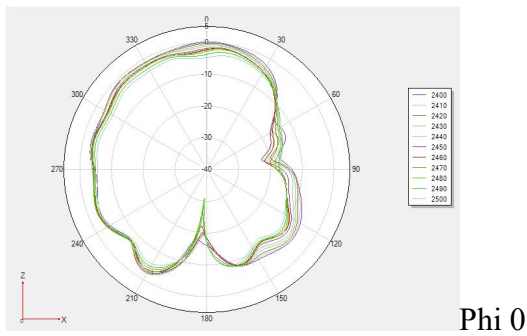
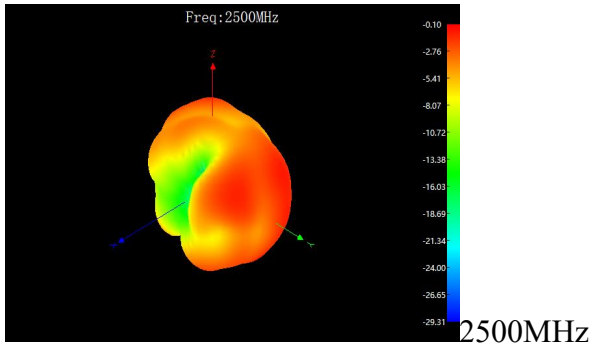
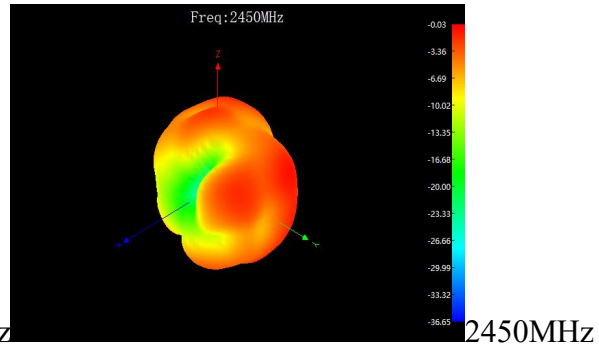
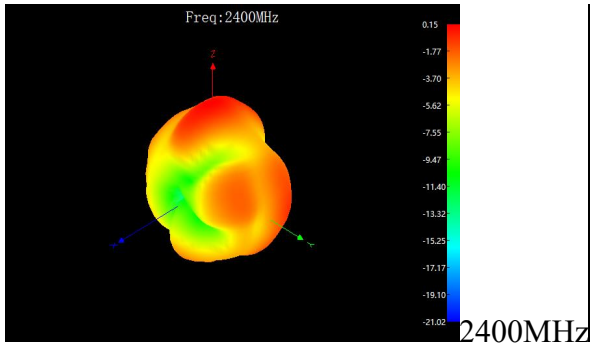


3.2.1 Efficiency and gain

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-4.54	35.16	0.15
2410	-4.4	36.31	-0.02
2420	-4.24	37.67	-0.17
2430	-4.19	38.11	-0.3
2440	-4.21	37.93	-0.15
2450	-4.39	36.39	-0.03
2460	-4.33	36.9	0.09
2470	-4.03	39.54	0.7
2480	-4	39.81	0.64
2490	-4.3	37.15	0.46
2500	-4.79	33.19	-0.1

3.2.2.1 Darkroom 2D、3D Raditation Pattern





4:Antenna position

