

Shenzhen Anwei Wireless Technology Co., Ltd

SPECIFICATION

Customer	weipai	Specs	BW4-B
Part Number	AW006-BW4-B-021-A0	Frequency Band	2.4G-WIFI
Color	Balck	Edition	REV:A
Salesperson	Huang he	Design	Huang he
Structure	Qin yun lin	Confirm	Song
Date	2023/02/02	Signing Date	
Customer confirmation:			
Join hands to create the future			

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1、Product specification

The report mainly provides parameter test of BW4-B antenna performance.

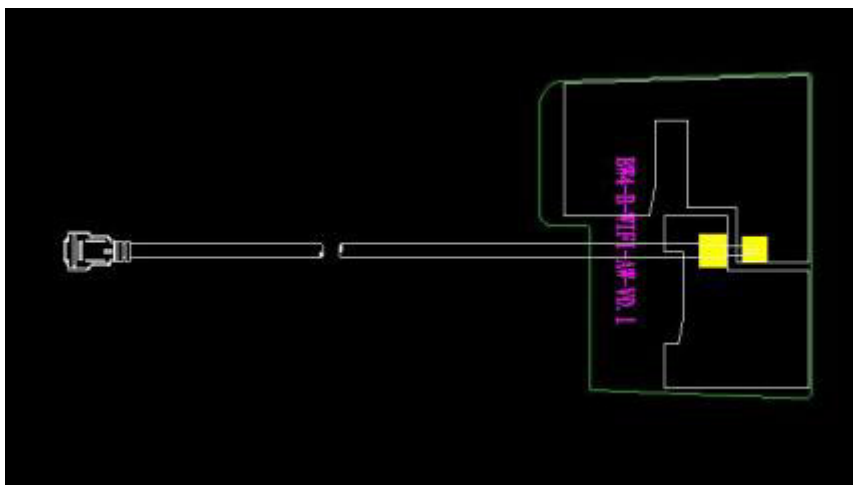
Silk screen model	Frequency+Range	Impedence	Antenna Gain	V. S. W. R
BW4-B	2400~2500MHz	50 Ω	4.21dBi	1.6

2、Electrical performance

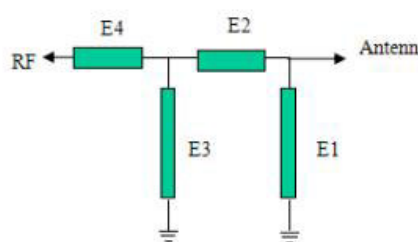
2.1 Specifications and standards

BW4-B antenna operates at 2400~2500MHZ, and resonance occurs at this frequency band.

2.2Product Photograph



2.3 Antenna matching circuit



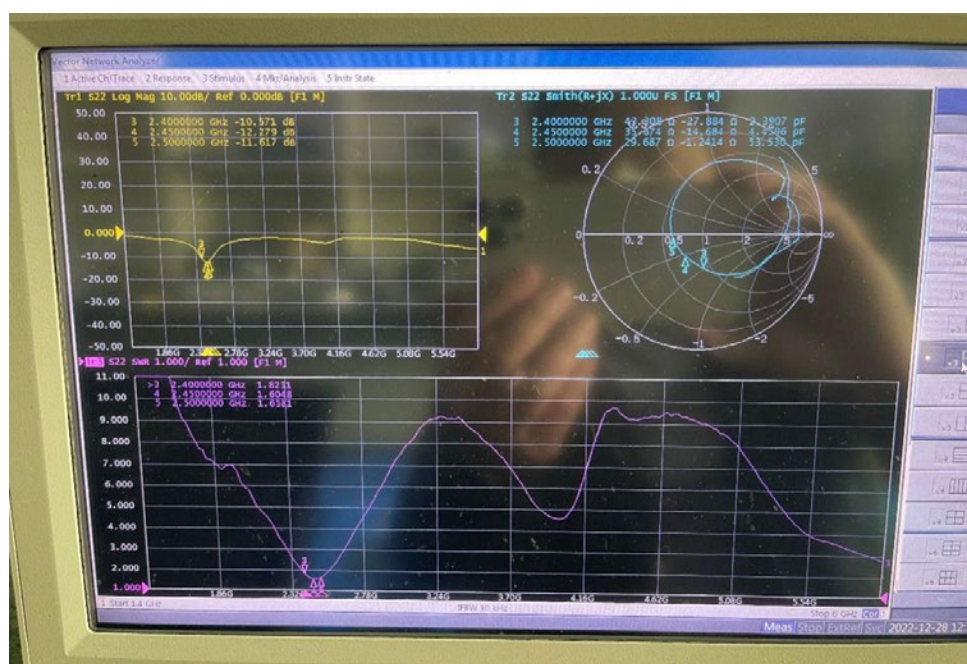
	Main Antenna
Element	Value
E1 (0201)	N/A
E2 (0201)	0Ω
E3 (0201)	N/A
E4 (0201)	N/A

Antenna structure: FPC+2 generation terminal 60mm copper axis

3、Test of passive parameters

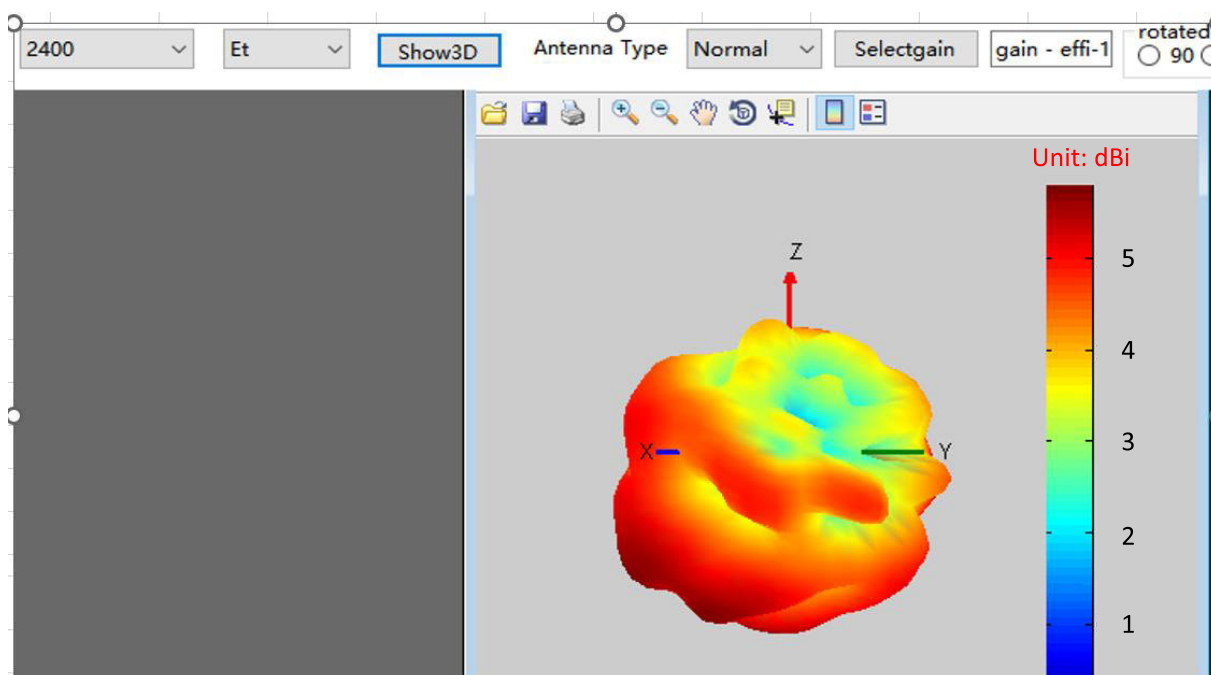
3.1 Test result

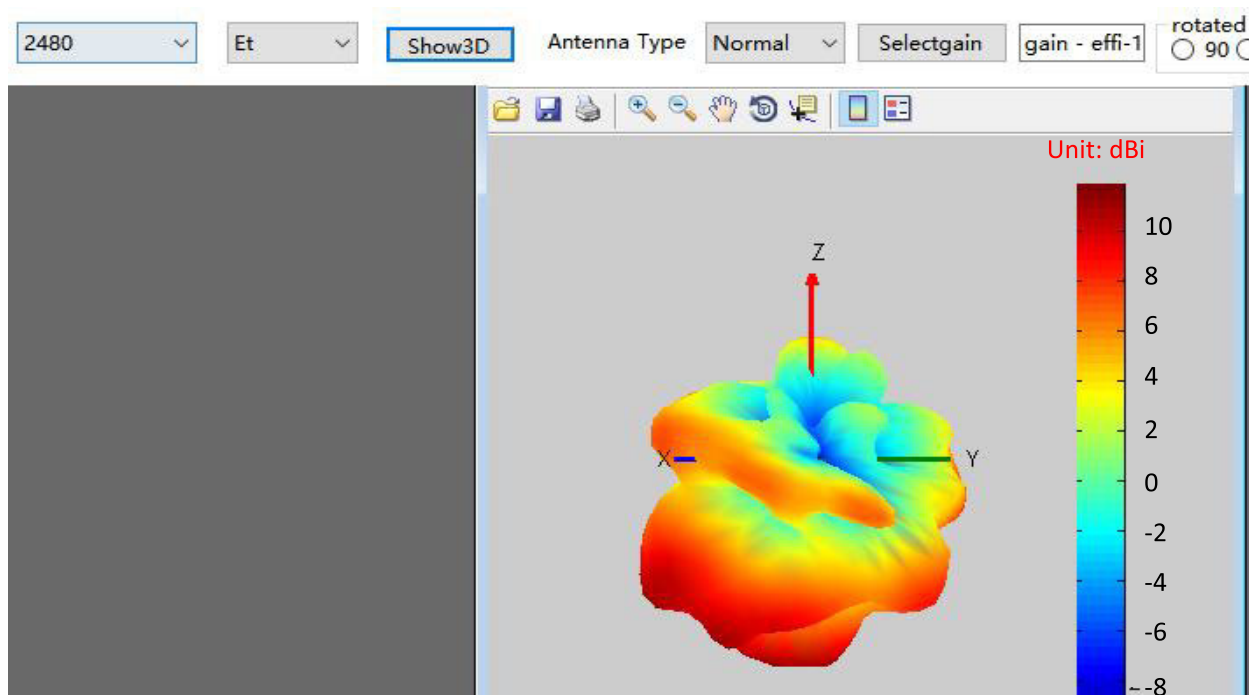
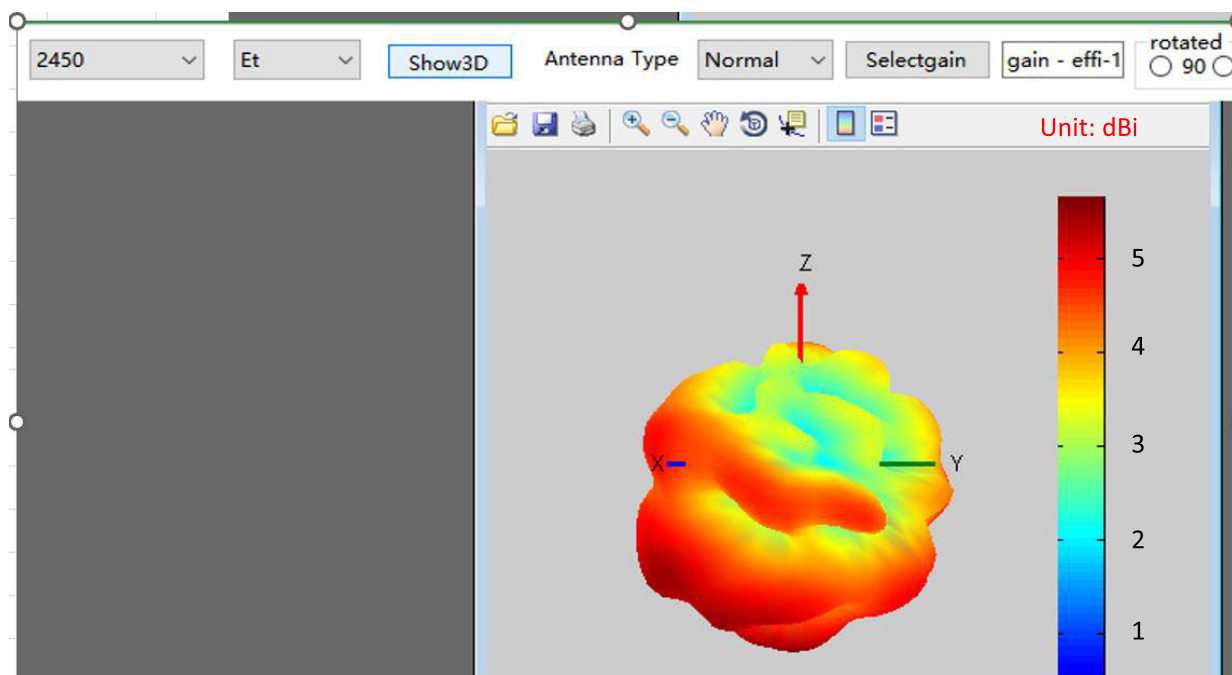
The following are antenna passive parameter data:



Efficiency and gain

Gain&Efficiency 增益和效率			
frequency 频率 (MHz)	gain 增益 (dBi)	mingain 最小增益 (dBi)	efficiency 效率 (%)
2400	3.72	-21.08	55.27
2410	3.48	-22.75	54.33
2420	3.67	-24.11	56.50
2430	3.77	-26.48	55.35
2440	3.6	-26.91	53.83
2450	3.58	-24.5	54.44
2460	3.91	-22.26	57.58
2470	3.47	-23.44	50.58
2480	4.09	-23.14	56.04
2490	4.21	-26.01	56.31
2500	4.06	-28.07	55.73





4、 Setting of OTA active test

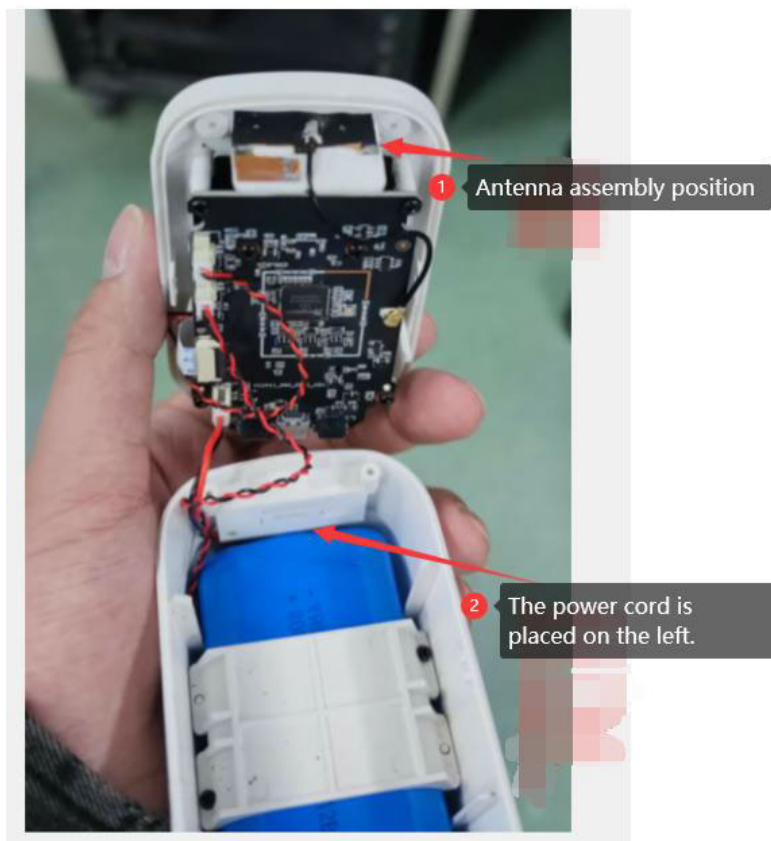
4.1 Test result

The maximum radiation power and maximum reception sensitivity reflect the maximum power radiation value and the best reception performance of the antenna in the whole radiation space. TRP and TIS reflect the average radiation power and average reception sensitivity of the antenna, that is, the overall reception performance of the antenna.

The following is the active test results of the bright screen of BW4-B 2.4G dual-band WIFI antenna:

	Channel	TRP (dEm)	TIS (dEm)
WIFI-B	L	18.92	-80.28
	M	18.67	-80.79
	H	18.43	-80.21
WIFI-G	L	17.57	-68.96
	M	16.43	-69.87
	H	16.12	-69.76
WIFI-N	L	16.46	-64.53
	M	16.63	-65.42
	H	16.45	-65.65

4.2 Environmental treatment



5.Recommendations and conclusions

This report is based on the antenna electrical performance measured by the product provided by the customer. Please check it carefully.

6. Antenna structure drawing

