

APPROVAL SHEET

supplier:	XinNuo mountain
CUSTOMER::	Antenna
DISCRIPTION::	WIFI/BT
MODEL NO::	WBP700-1B80B-D
CUSTOMER P/N::	D115A
CUSTOMER MODEL:	

con

1. Project information and Electrical Specification

Those specifications were specially defined for D115A model, and all characteristics were measured under the model's handset testing jig.

1-1 Project picture



1-2 Frequency Band:

Frequency Band	MHz
GPS/Wi-Fi/BT	1575/2400-2500/5050-5850

1-3 Impedance matching

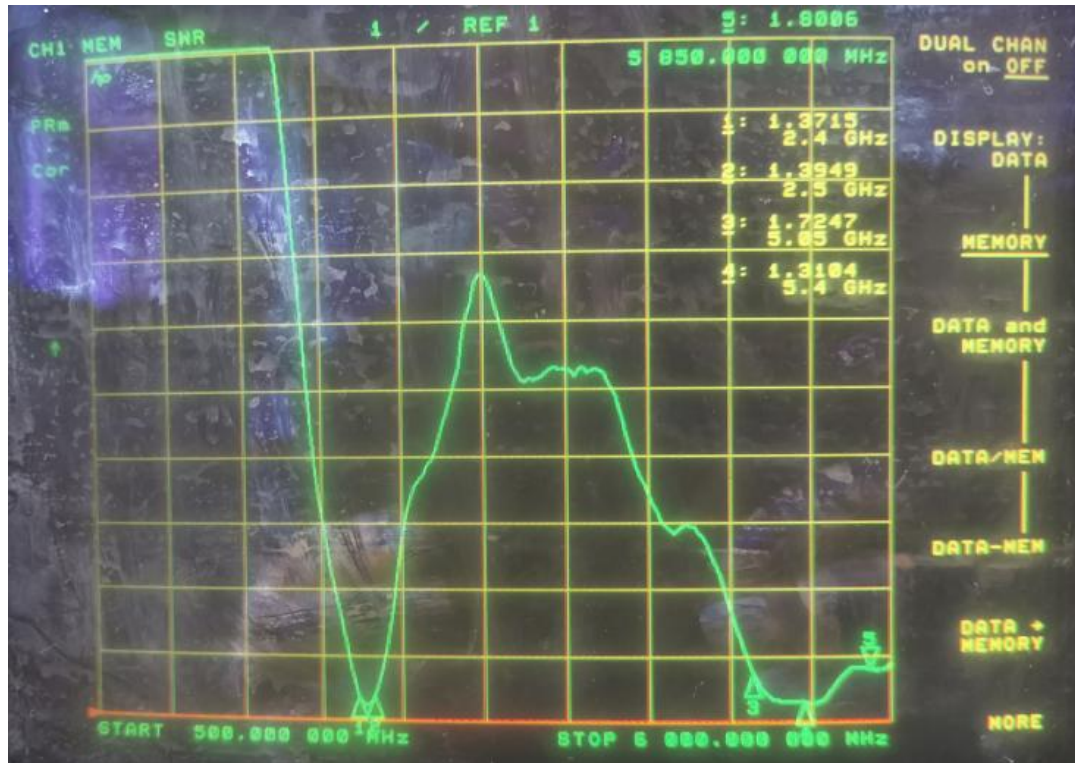
2. VSWR

2-1 Measuring Method:

- 1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*

2-2 S11 parameter values

(MHZ)	2400	2500	5050	5400	5850
standing wave	1.37	1.39	1.72	1.31	1.80

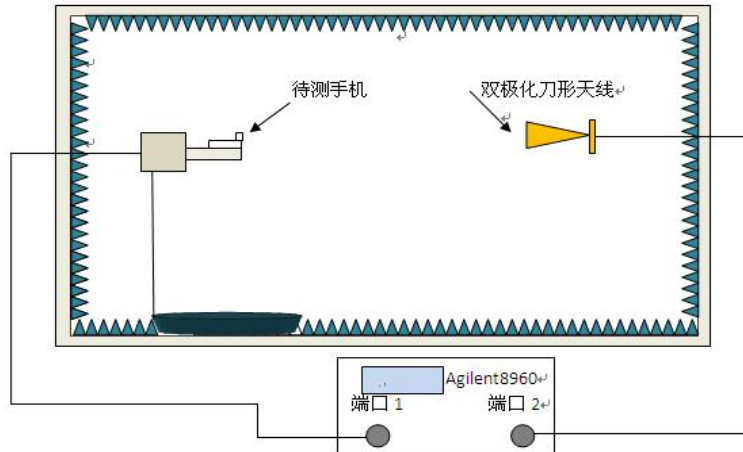


Efficiency and Gain

***measuring and test instruments:**

***test method:**

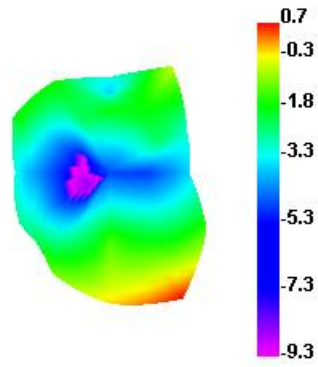
equipment Place the H side at the center on the same horizontal line as the center of the horn antenna.



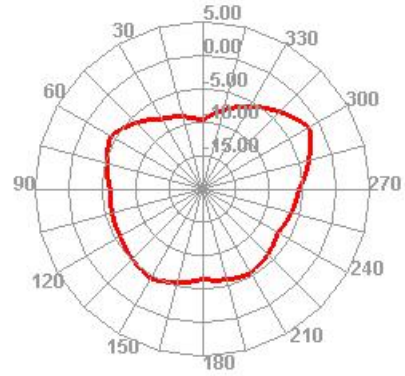
3-1 Efficiency/Gain- WIFI/BT

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.25	-3.64	0.69
2450	41.22	-3.85	0.4
2500	42.18	-3.75	0.55

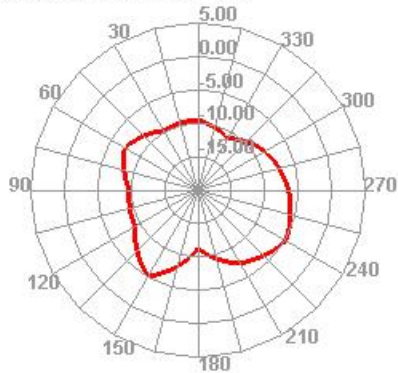
2400.000MHz



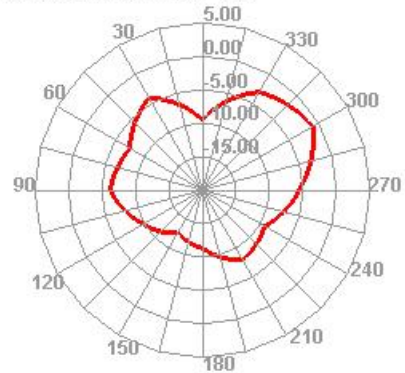
2400.000MHz H



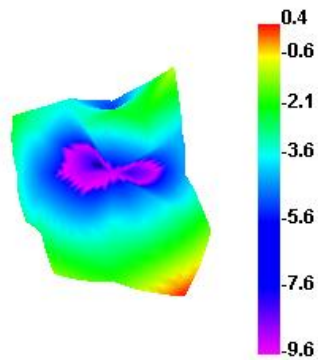
2400.000MHz E1



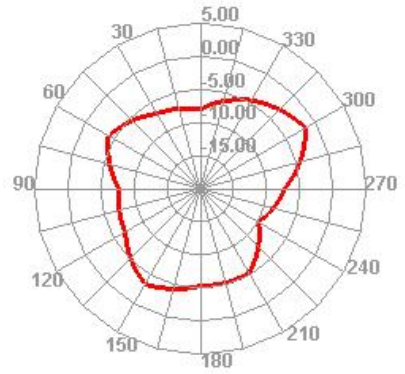
2400.000MHz E2



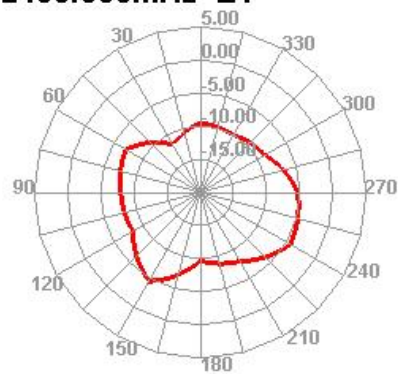
2450.000MHz



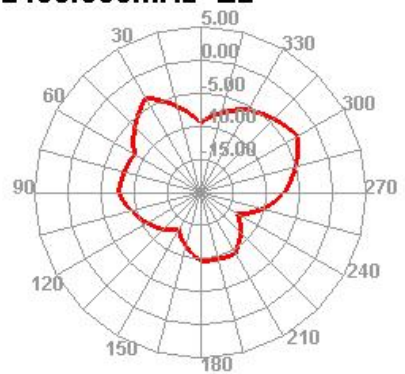
2450.000MHz H



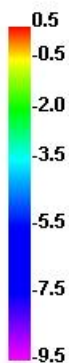
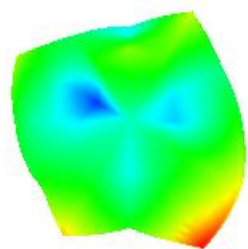
2450.000MHz E1



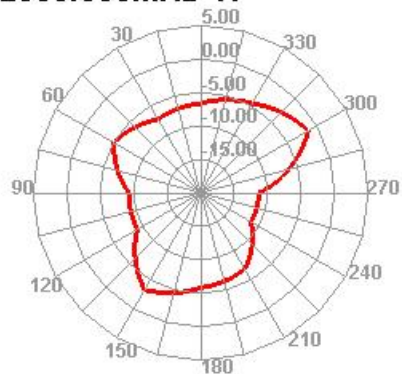
2450.000MHz E2



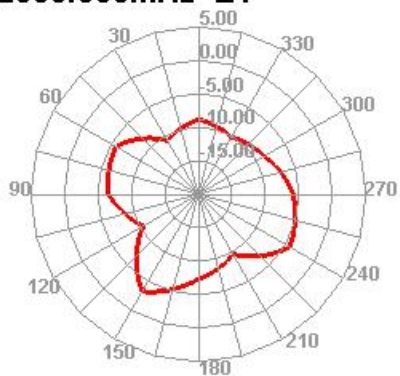
2500.000MHz



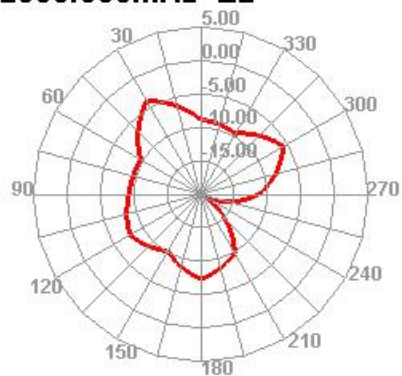
2500.000MHz H



2500.000MHz E1

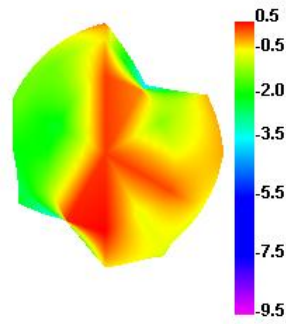


2500.000MHz E2

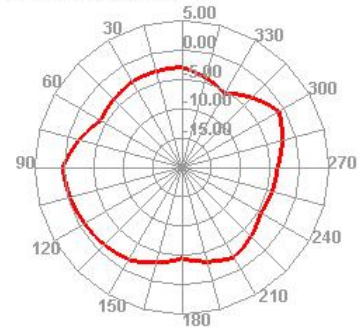


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5050	43.12	-3.65	0.5
5450	42.18	-3.75	0.41
5850	46.02	-3.37	0.72

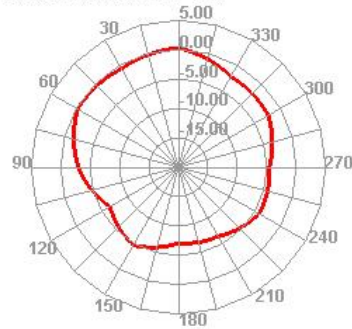
5050.000MHz



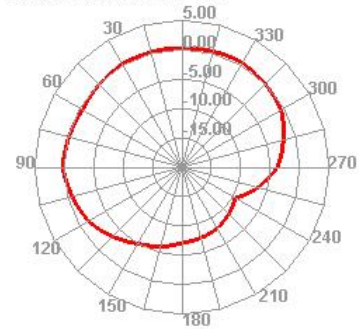
5050.000MHz H



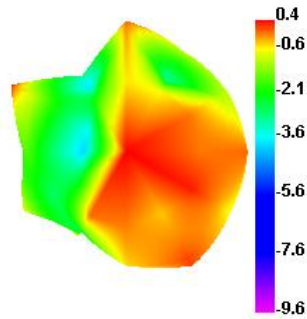
5050.000MHz E1



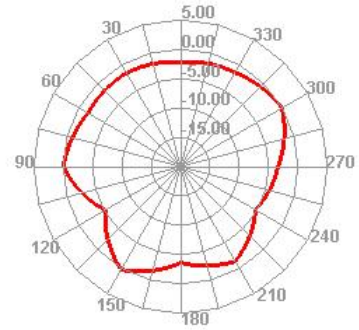
5050.000MHz E2



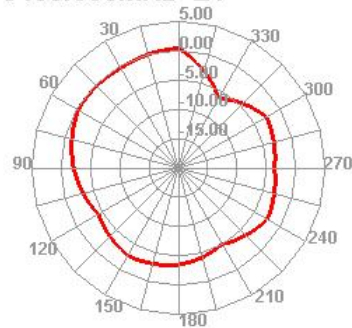
5450.000MHz



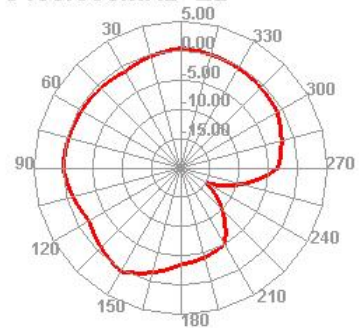
5450.000MHz H

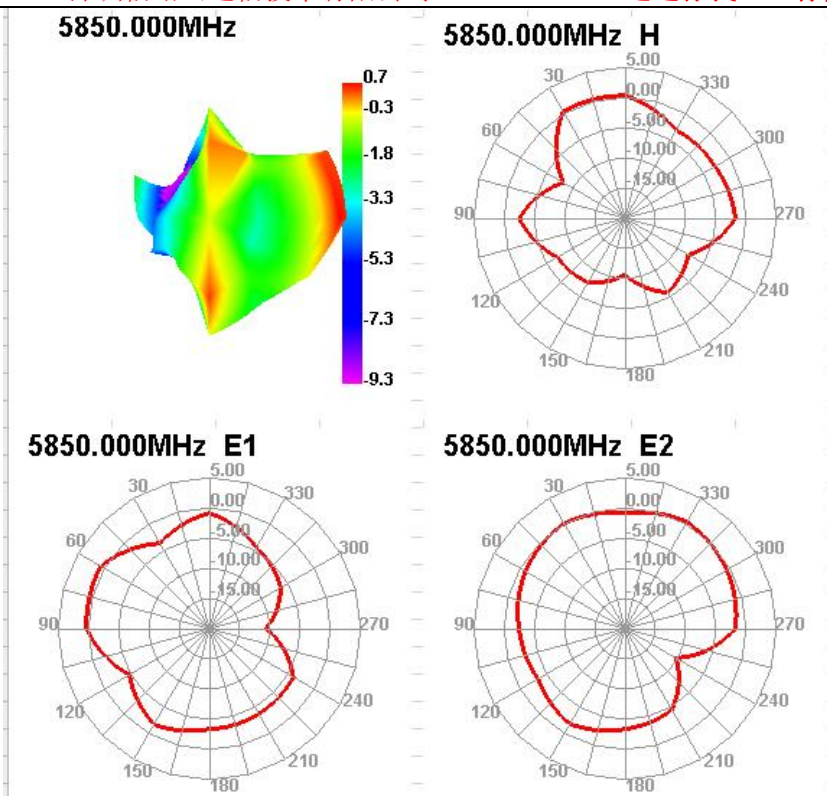


5450.000MHz E1



5450.000MHz E2





5. The production index

