WA-P-LB-03-130 Specification

1. Explanation of part number :

WA	_	P	_	LB	_	03	_	130
(1)		(2)		(3)		(4)		(5)

(1) Product Type：Wireless Antenna

(2) Material: PCB+Cable

(3) Frequency : 2400~2500MHz&5100-5900MHz

(4) Coaxial Cable Type : 03

(5) Suffix :130

2. Storage Condition:

Temperature	-40 to +70°C
Humidity	65±20 % RH

3. Operating Condition:

Temperature	-40 to +70°C
Humidity	65±20 % RH

4. Electrical Specification :

*Those specifications were specially defined for 超声 **CA22 WIFI-2** model, and all characteristics were measured under the model's handset testing .*

4-1. Frequency Band:

Frequency Band	MHz
WiFi	2400~2500&5100-5900

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

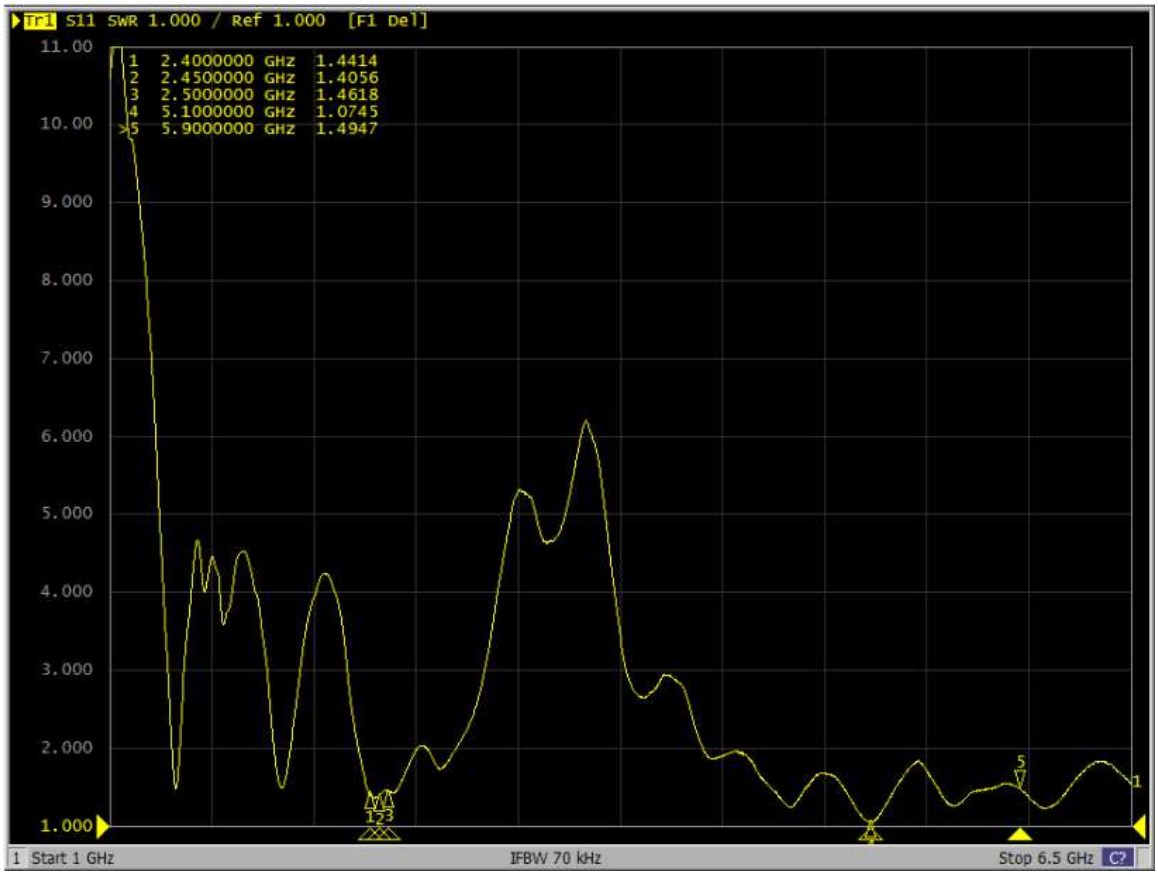
4-4.1 Measuring Method

1.A 50Ω 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

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2450	2500	5100	5900
VSWR	1.44	1.41	1.46	1.07	1.49
Typical Value:	**≦2.5**	**≦2.5**	**≦2.5**	**≦2.5**	**≦2.5**



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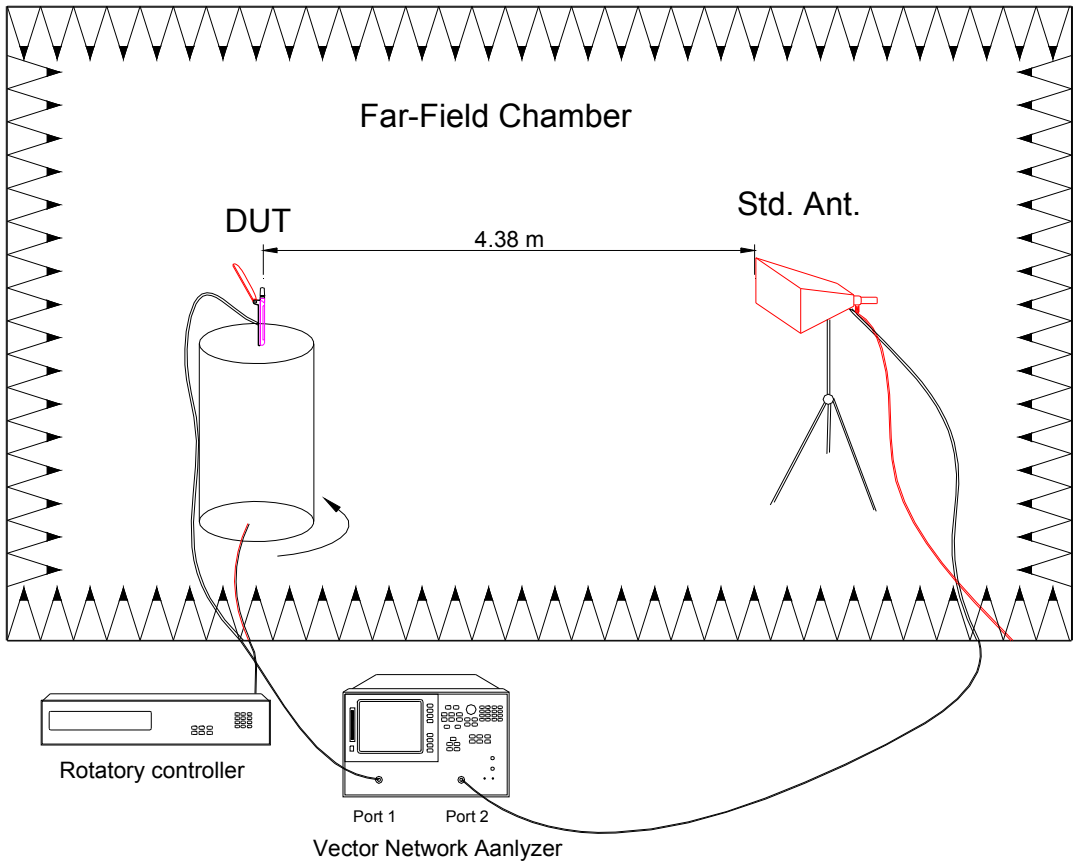
4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



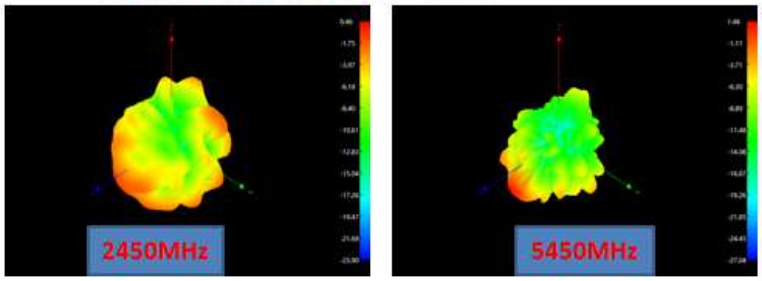
1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

4-5.3 Efficiency and Gain

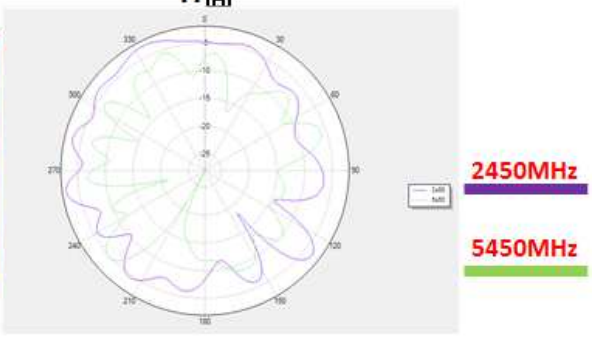
Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

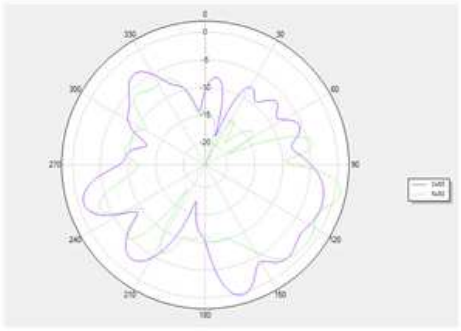
Frequency (MHz)	2400	2450	2500	5150	5450	5850
Efficiency (%)	41.83	43.98	41.56	32.81	34.43	32.06
Gain (dBi)	0.46	0.46	0.11	1.89	1.48	1.98

2450MHz&5450MHz wifi2

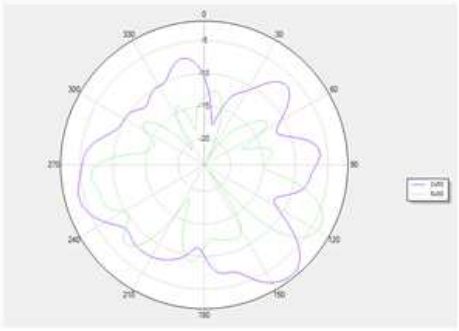


H面





E1面



E2面

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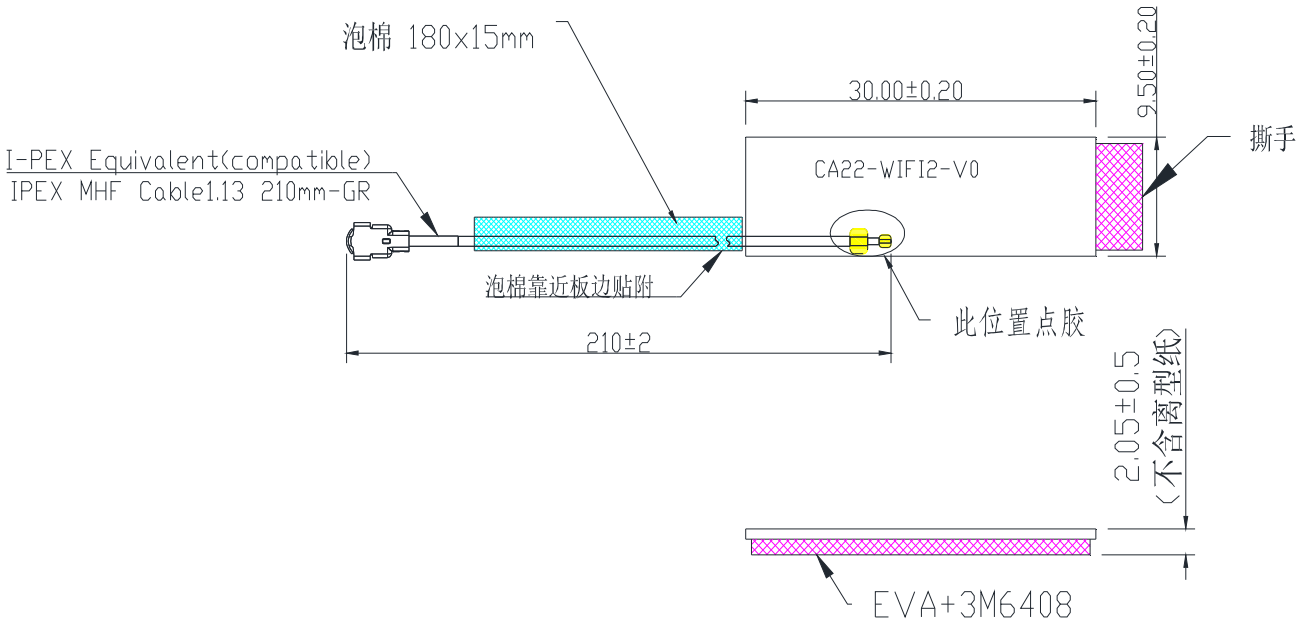
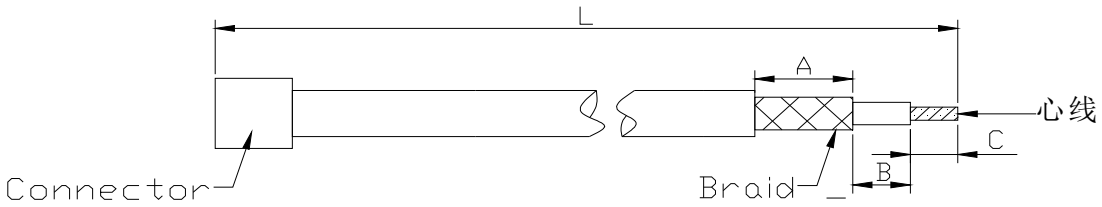
5.Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure **5-1-1**



5-2. Cable Length:



Connector：I-PEX MHF I-PEX Equivalent(compatible)；
Cable：RF Cable 1.13（灰色）
L：210±2mm

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