ON-BOARD WIFI ANTENNA Specification

1. Product description

- (1) Supplier Name: Shanghai Sunmi Technology Co.,Ltd.
- (2) Material Name: 80 printer WiFi antenna

2. Electrical Specification :

2-1. Frequency Band:

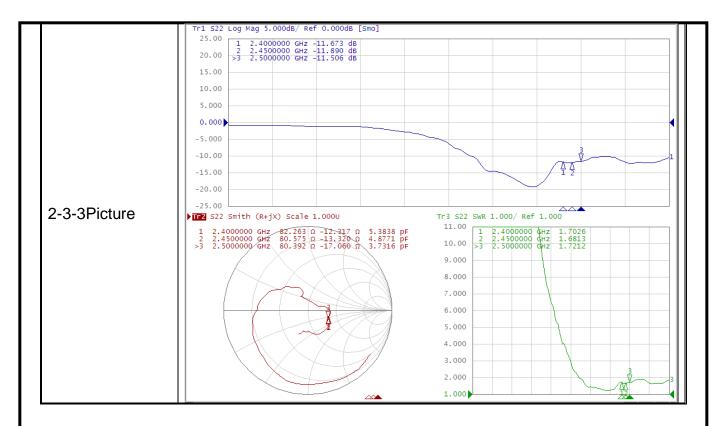
Frequency Band	MHz
WIFI	2400-2500MHz

2-2. Impedance

50 ohm nominal

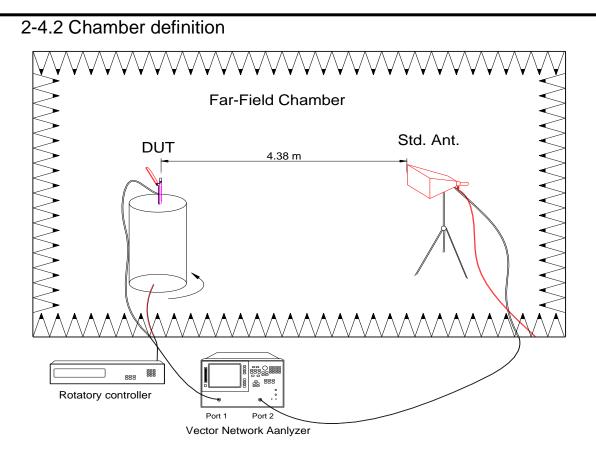
2-3. VSWR:

Frequency Band	2400	2450	2500				
2-3-1. Typical Value:	≦3	≦3	≦3				
2-3-2Measuring							



2-4. Gain and Efficiency

- 2-4.1 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

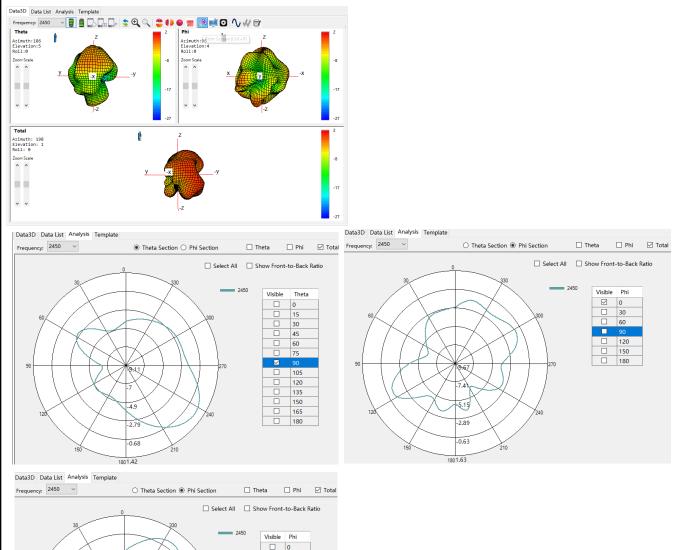


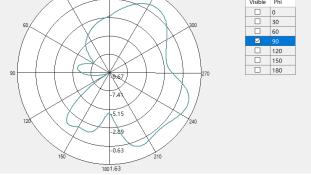
- 1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

2-4.3 Gain and Efficiency

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Efficiency_Pcent	Gain
54.92	1.37
55.56	1.36
56.45	1.2
58.14	1.11
58.15	1.01
57.37	1.17
58.15	1.47
61.69	1.93
64.76	2.3
66.59	2.45
67.89	2.42
	Efficiency_Pcent 54.92 55.56 56.45 58.14 58.15 57.37 58.15 61.69 64.76 66.59

2-4.4 Antenna 2D and 3D





2-4.5 Antenna OTA

		TRP	TIS
WiFi	802.11b	11.22	-85.55
		11.83	
		12.69	-85.35
	802.11g	9.55	-71.78
		10.64	
		10.82	-71.96
	802.11n	9.43	-69
		10.04	
		11	-69.45

3. Antenna Dimensions:(unit:mm)

