

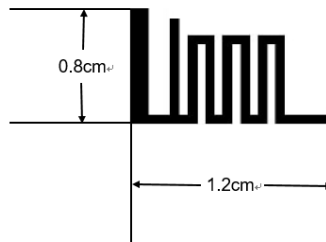
Product specification

Quick Reference Data

	Antenna module on the system board	
Frequency	2.45GHz*1	
Ant. Port Input Pwr. (dBm)	0	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1.68 (Peak Gain XZ-plane)	
Maximum Power (dBm)	1.3 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Max/Min Ratio (dB)	5.3(XY-plane)	
Max/Avg Ratio (dB)	1.8(XY-plane)	
Min/Avg Ratio (dB)	-3.5(XY-plane)	
Average Gain (dB)	-0.5 (Avg Gain XY-plane)	

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board



Antenna Gain

Gain Table

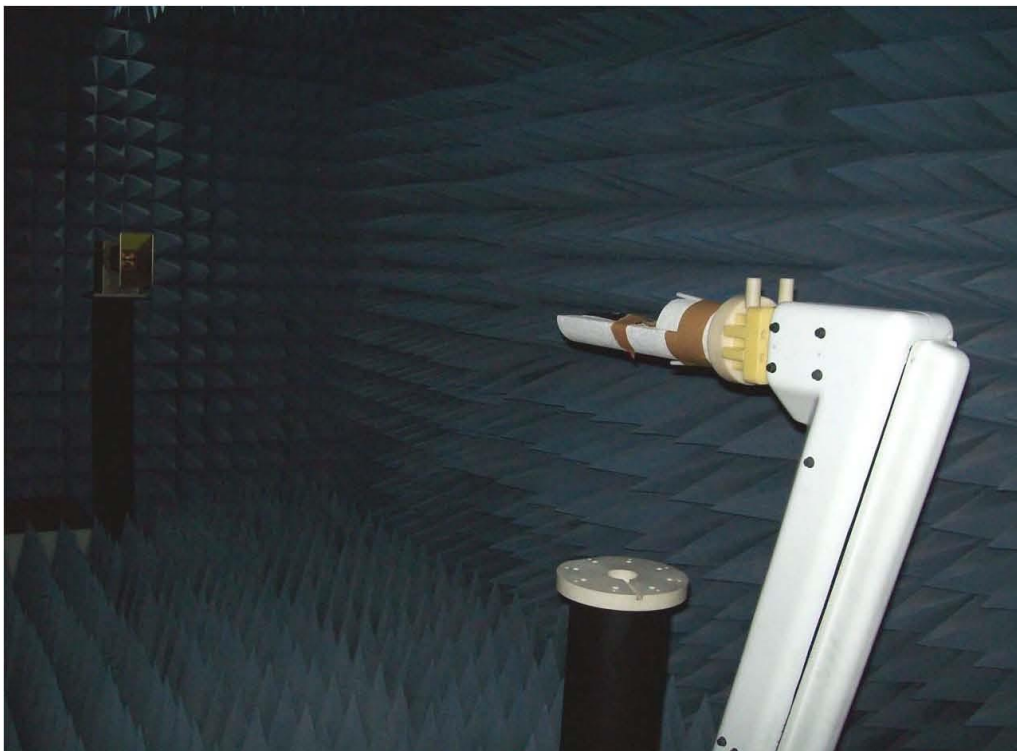
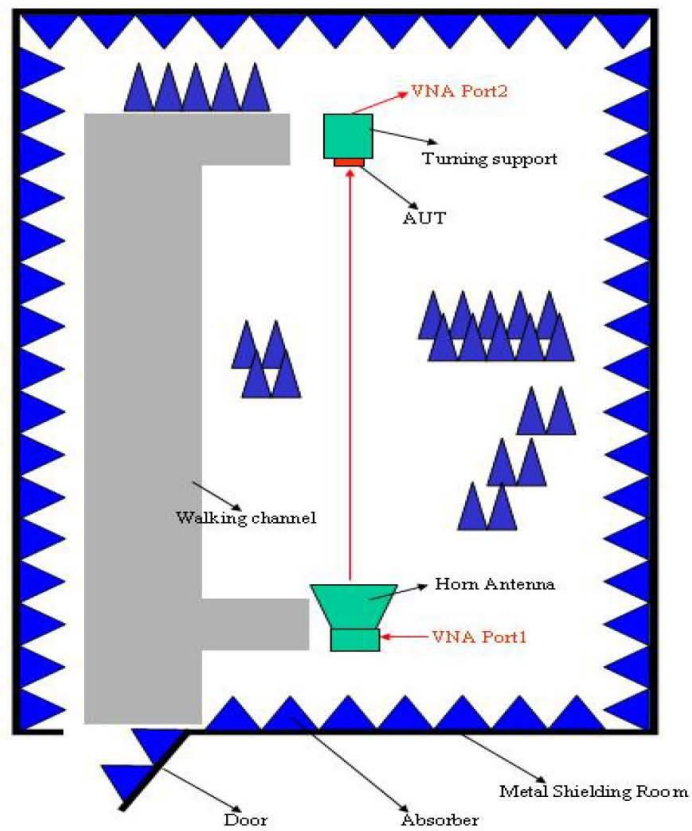
	Antenna module on the system board	
Frequency	2.45GHz*1	
Ant. Port Input Pwr. (dBm)	0	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1.68 (Peak Gain XZ-plane)	
Maximum Power (dBm)	1.3 (XY-plane)	

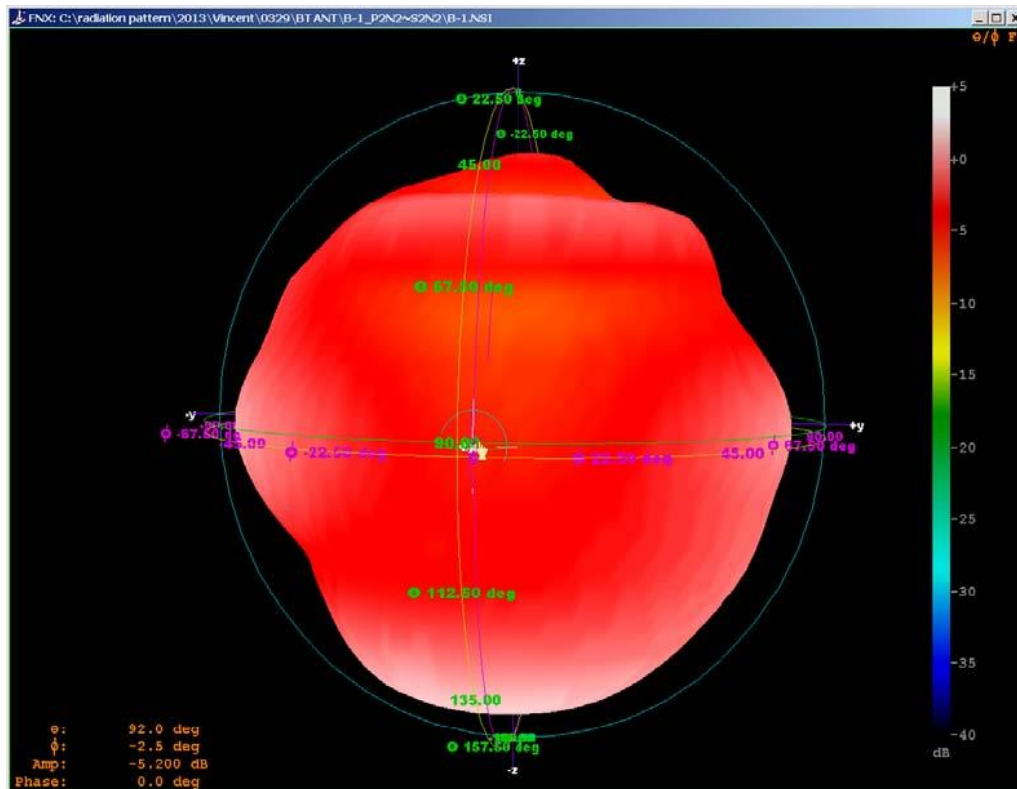
Antenna manufacturer: Shenzhen Xinsilu Smart Home Co., Ltd.



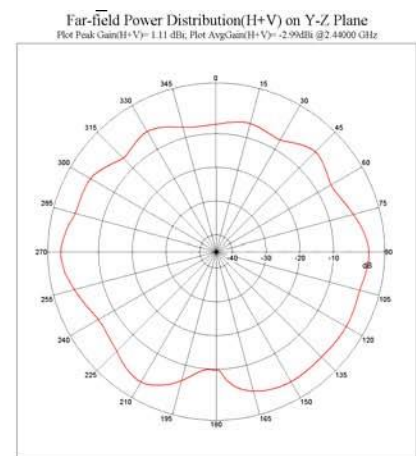
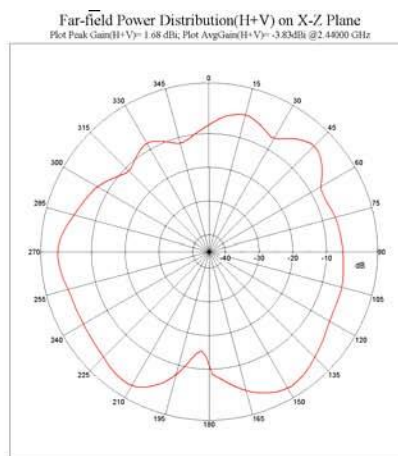
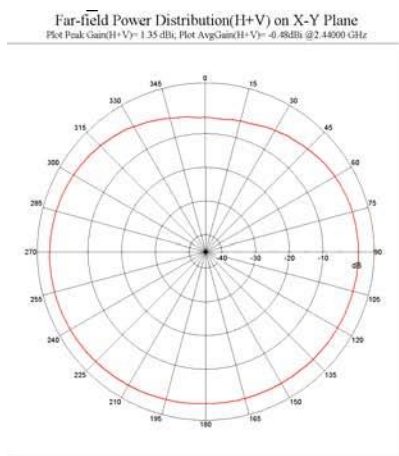
Return Loss

The Environment of Antenna Radiation Pattern





3D radiation pattern diagram



XY-plane XZ-plane YZ-plane

2.4GWIFI		
Frequency/MHz	Efficiency/dB	Efficiency/%
2400	-2.0	50.9
2410	-2.1	53.4
2420	-2.1	53.44
2430	-2.2	56.0
2440	-2.1	53.4
2445	-2.3	58.5
2450	-2.2	56.0
2460	-2.0	50.9
2470	-2.2	56.0
2480	-2.1	53.4
2490	-2.1	53.4
2500	-2.2	56.0