

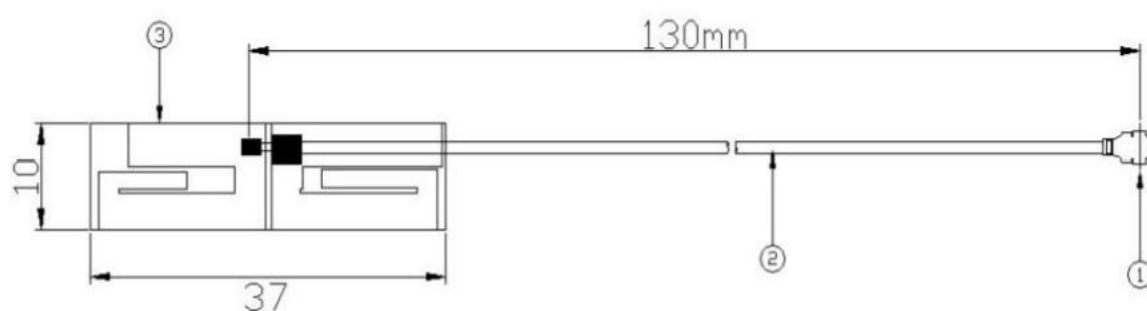
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400~ 2500MHz	
Ant.Port Input Pwr. (dBm)	0(Typ.BT class 2 output power)	
Tot.Rad.Pwr. (dBm)	-1.2(Input pwr-loss pwr)	
Peak EIRP(dBm)	1.2	
Directivity(dBi)	1(all direction antenna)	
Efficiency(dB)	60.2%	
Gain (dBi)	1.68dBi (Peak)	
Maximum Power(dBm)	1.35(XY-plane)	
Minimum Power(dBm)	-4(XY-plane)	
Avg. Power(dBm)	-0.48(XY-plane)	
Input Impedence(ohm)	50	
Polarization Type	V ertical &Horizontal	
V . S . W . R	<1.4	
Manufacturer	SPRESSIF SYSTEMS (SHANGHAI)CO.,LTD.	
Address	Room 204, Building 2, No.690, Bibo Road, China (Shanghai) Pilot Free Trade Zone	

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

Antenna Layout &module on the system board



Antenna Gain

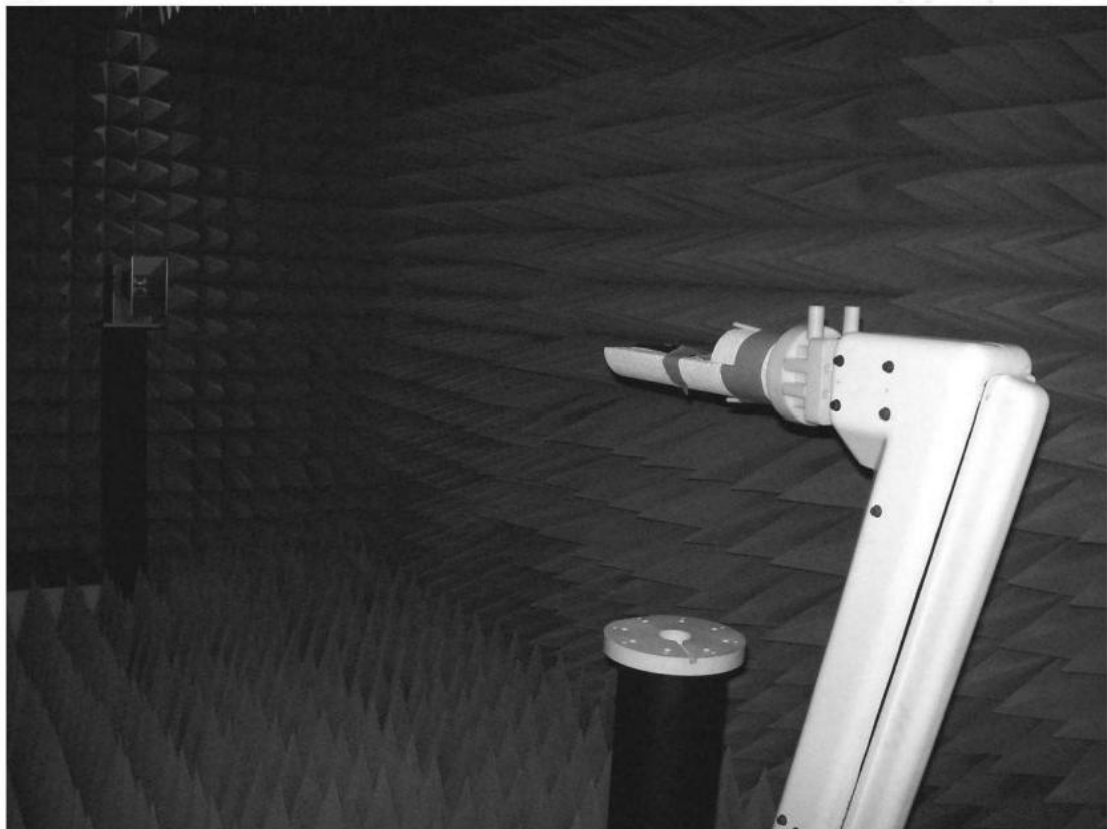
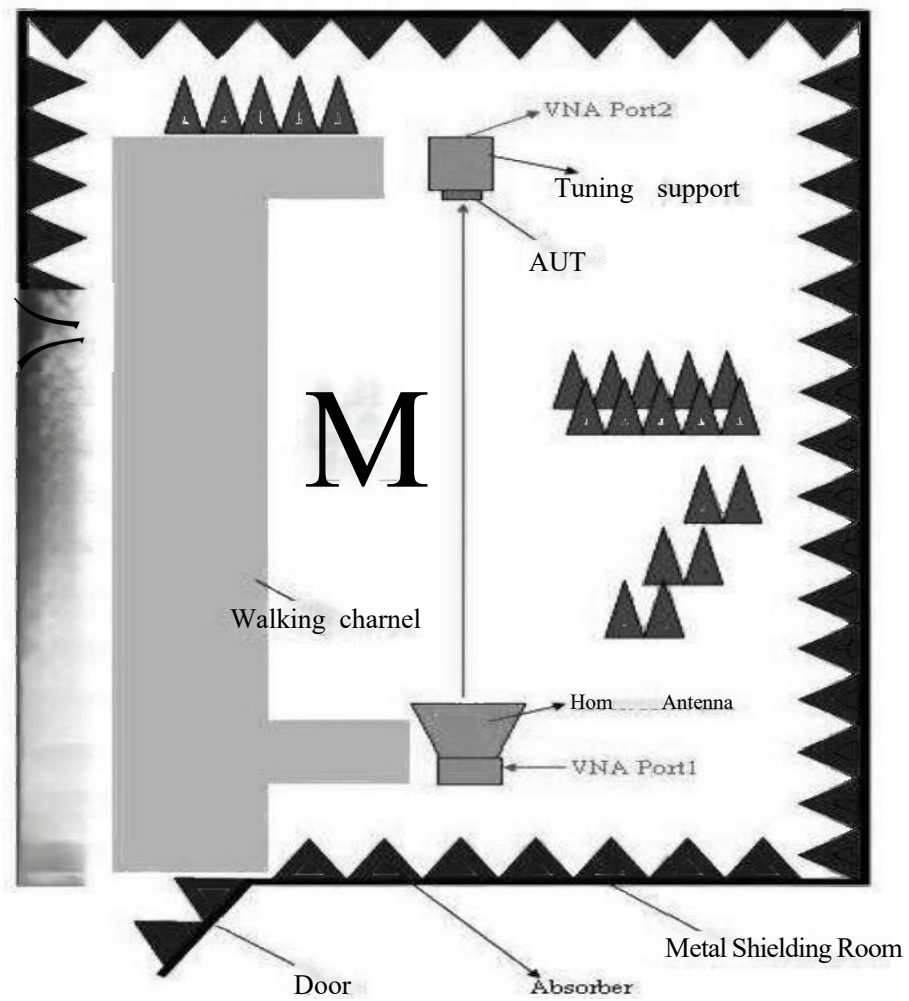
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.35	-0.48	1.68	-3.83	1.11	-2.99	60.2%

Return Loss



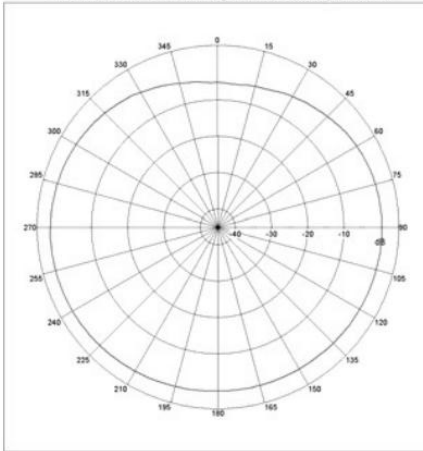
The Environment of Antenna Radiation Pattern



2D radiation pattern diagram

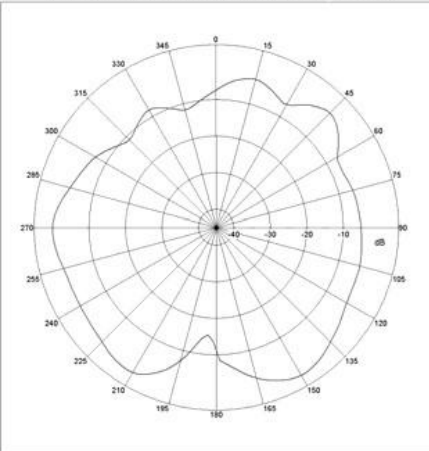
XY-plane

Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain(H+V)= 1.35 dBi; Plot AvgGain(H+V)= -0.48dBi @2.44000 GHz



XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.68 dBi; Plot AvgGain(H+V)= -3.83dBi @2.44000 GHz



YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 1.11 dBi; Plot AvgGain(H+V)= -2.99dBi @2.44000 GHz

