

Antenna data sheet

1. Basic information

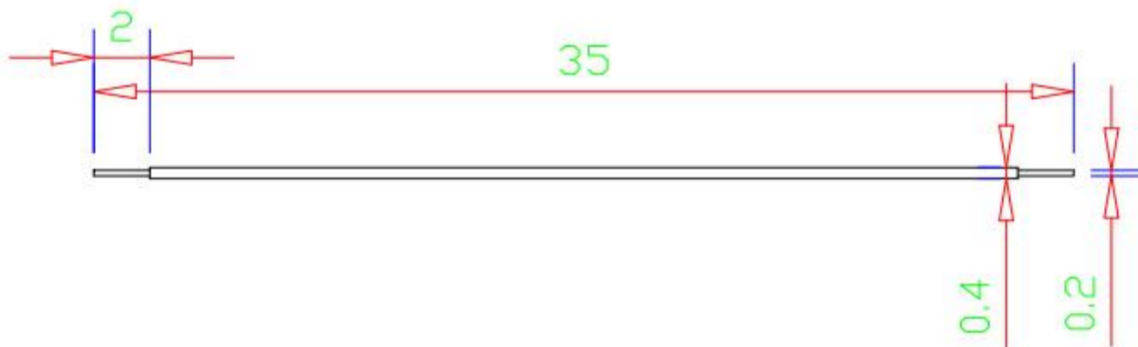
	Antenna module on the system board	
Frequency	2.4-2.5GHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1.68 Peak Gain	
Maximum Power (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)	

Manufacturer:ZHUHAI JIELI TECHNOLOGY CO.,LTD

Add:No. 333 Kexing Road, Xiangzhou District, Zhuhai City

Model:Metal antenna

2. Antenna size



S5 Antenna specification:

1: Blackness PVC line, length 35mm, external diameter 0.4mm, inner diameter 0.2mm

Tin-impregnated at bothends 2mm

3. Test Data

3.1 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	-0.6	1.68	-3.6	1.11	-3.1	58.4%

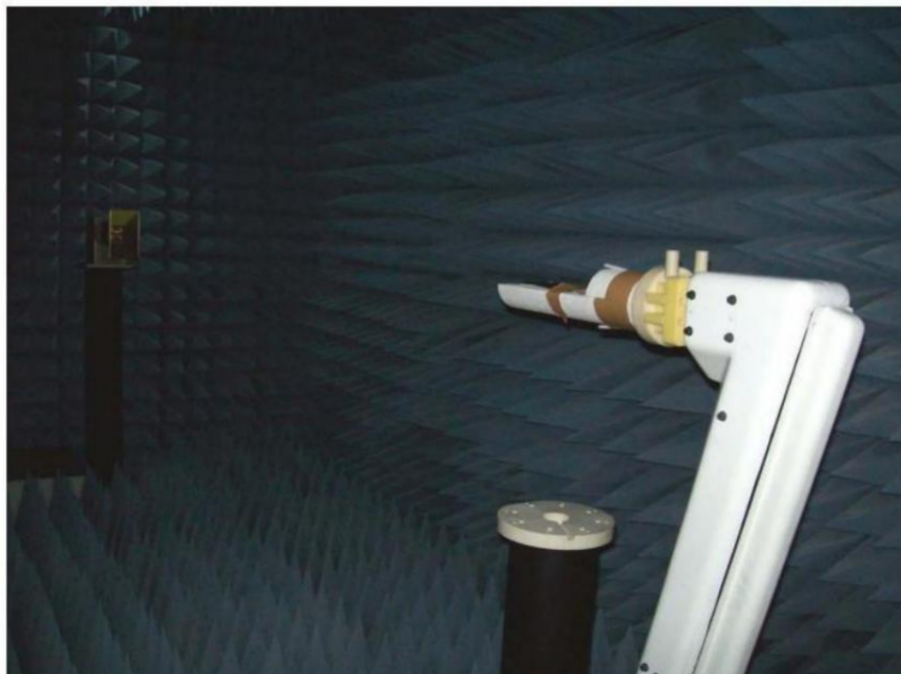
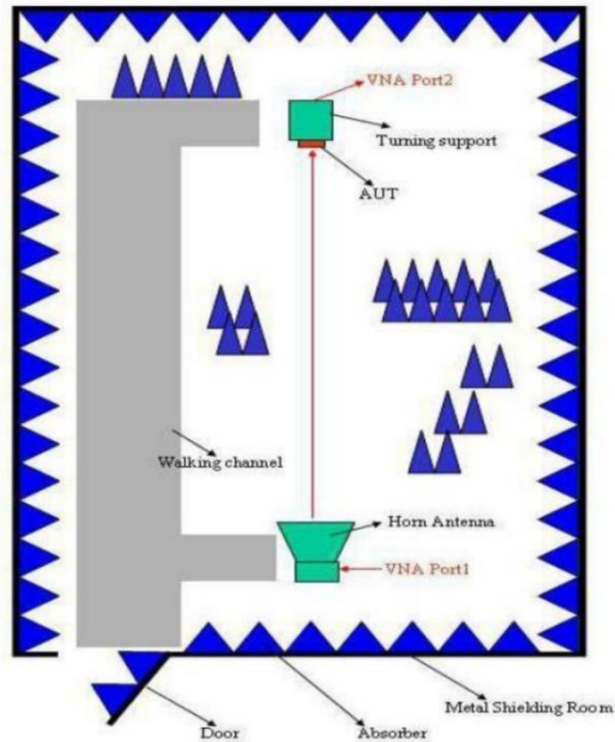
3.2 Return Loss



4. Test setup

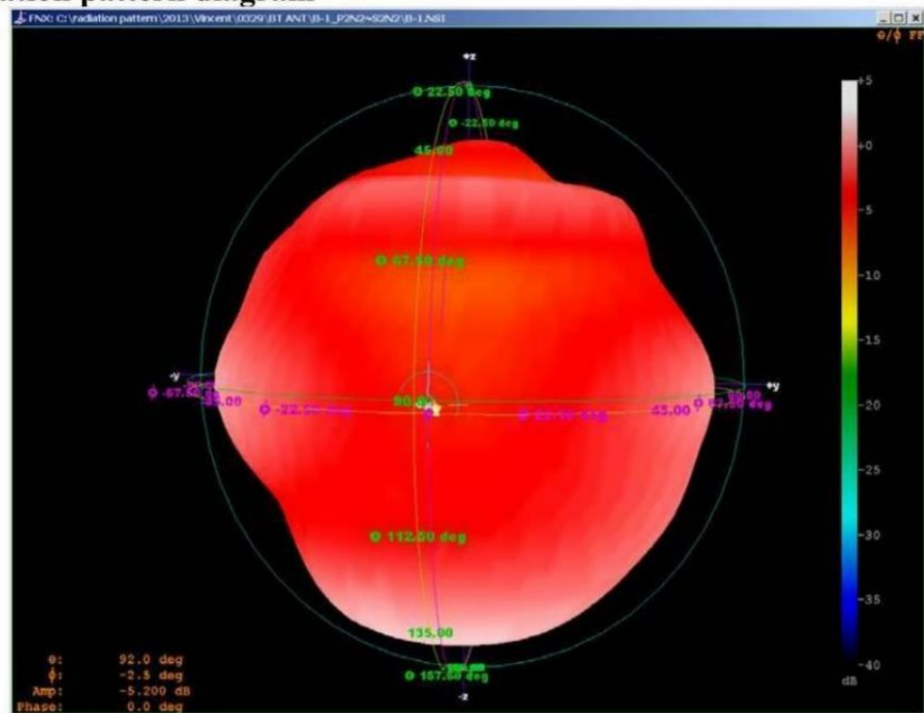
Antenna measurements such as VSWR were measured with an HP 8753D vector network analyzer. Radiation patterns were measured with a A388/A333 vector network analyzer in a ETS-3D chamber equivalent. Phase center is nine inches above the Phi positioner. Flat surface measurements were done with the antenna centered on a 1.5 mm-thick plate of polycarbonate. Curved surface measurements were taken by placing the antenna on the inside and outside of different diameter PVC tubing.

The Environment of Antenna Radiation Pattern

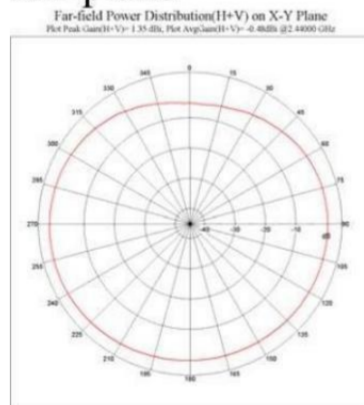


5. 3D Test Chart

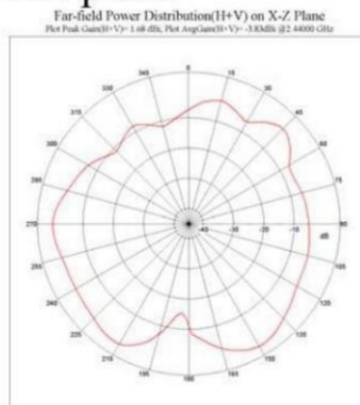
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

