

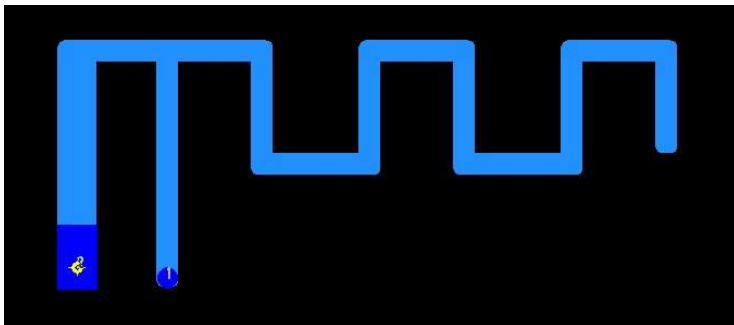
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequency	2.45GHz ^{*1}	
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)	1.0	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1.0 (Peak Gain XY-plane)	
Maximum Power (dBm)	1.0 (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

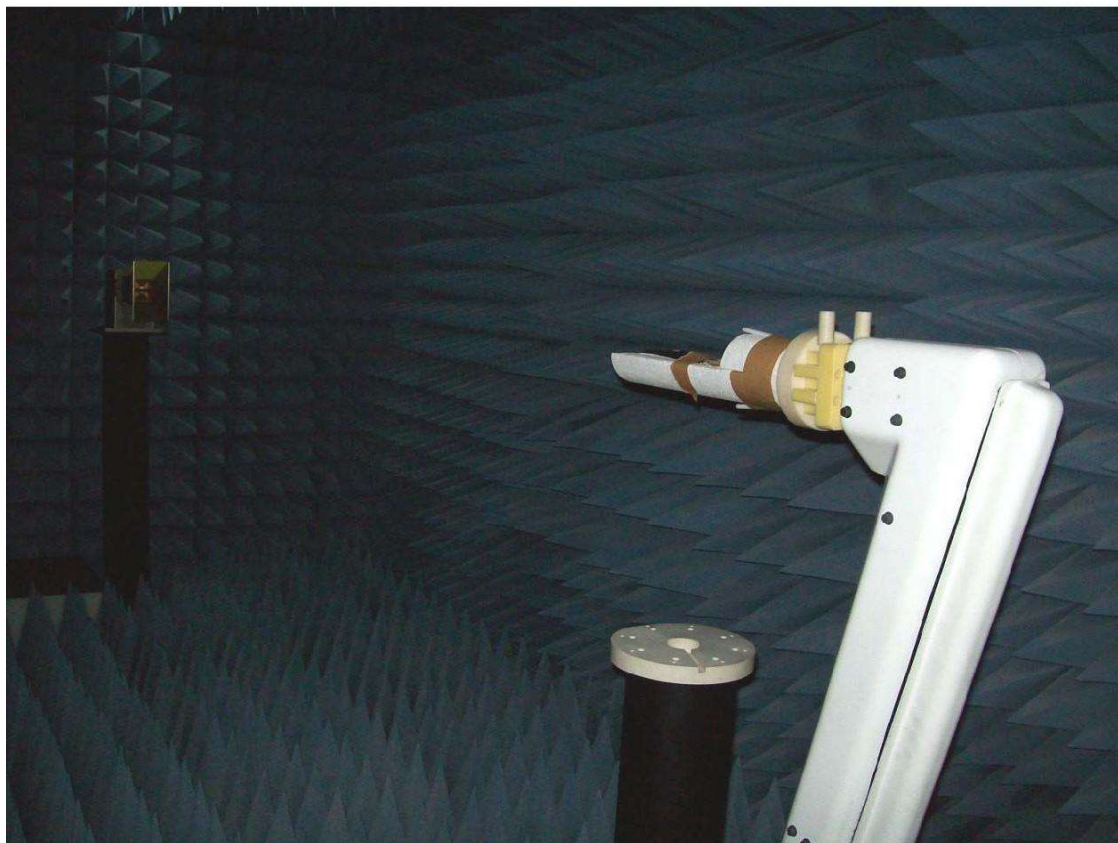
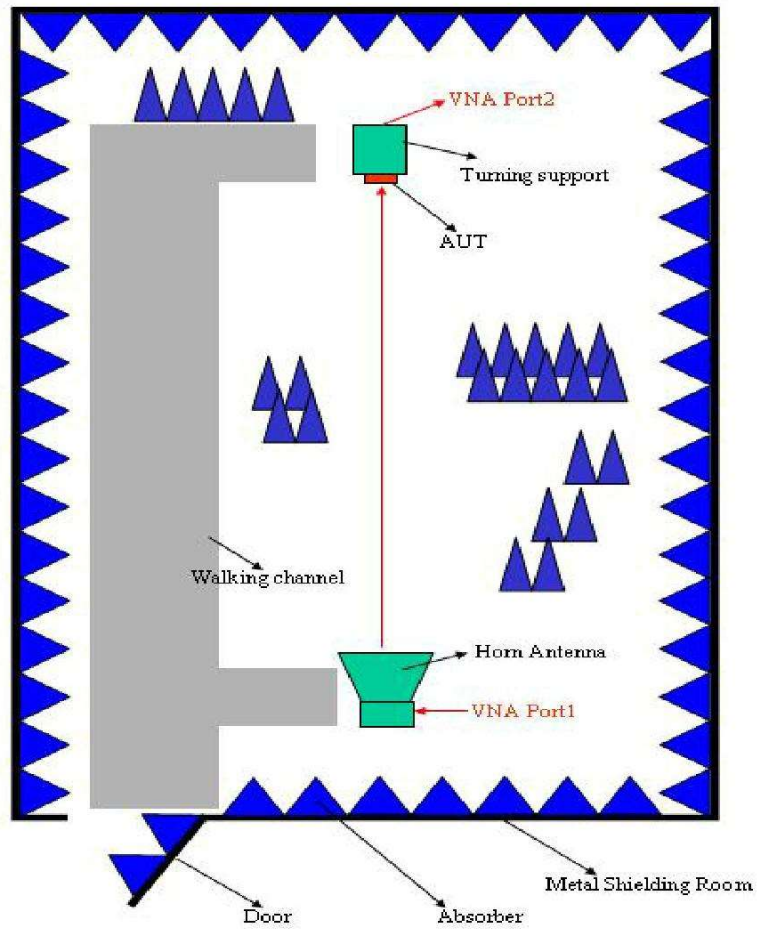
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.0	-0.5	0.7	-3.8	0.5	-3.0	58.5%

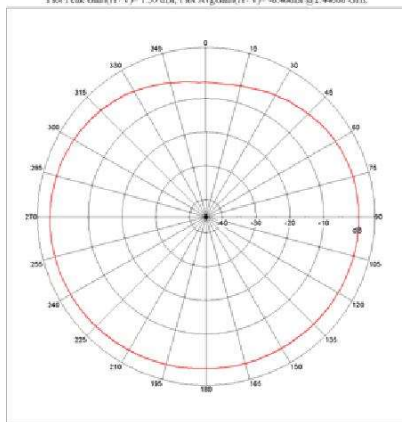
Return Loss



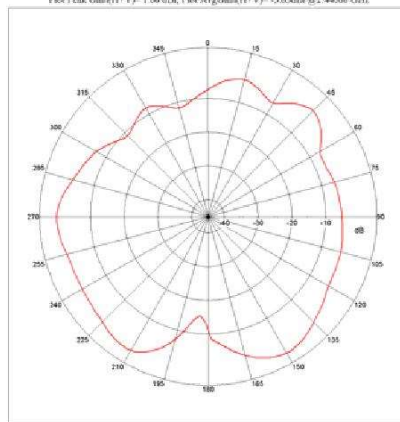
The Environment of Antenna Radiation Pattern



XY-plane



Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.08 dBi; Plot AvgGain(H+V)= -3.83dBi @2.4000 GHz



Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 1.11 dBi, Plot AvgGain(H+V)= -2.95dBi @2.44000 GHz

