

## Product specification

### Quick Reference Data

	Antenna module on the system board	
Frequency	2400-2480MHz	
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)	0.5	
Directivity(dBi)	1 (all direction antenna)	
Efficiency(dB)	-2.3(58.5%)	
Gain(dBi)	0(Peak Gain XY-plane)	
Maximum Power(dBm)	-0.8 (XY- plane)	
Maximum 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

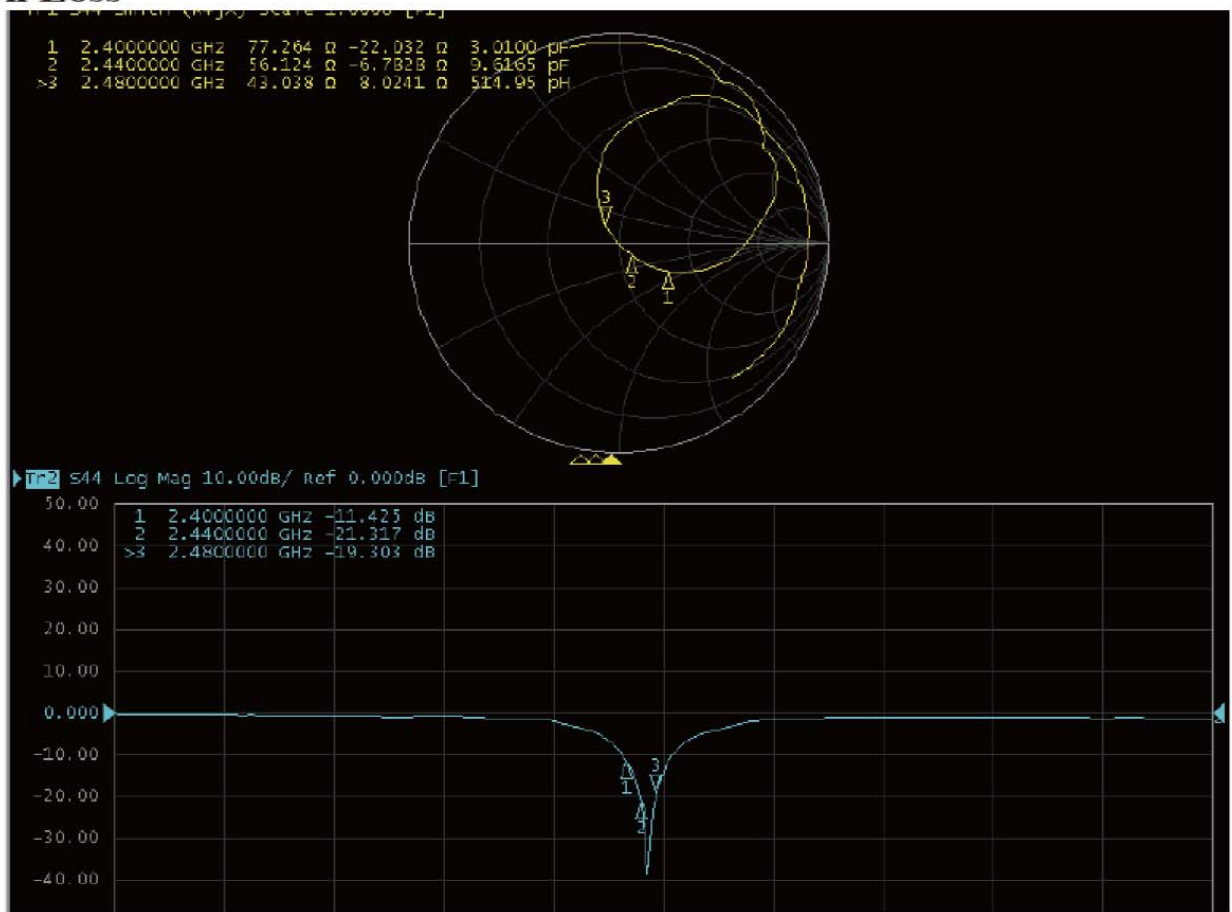


### Antenna Gain

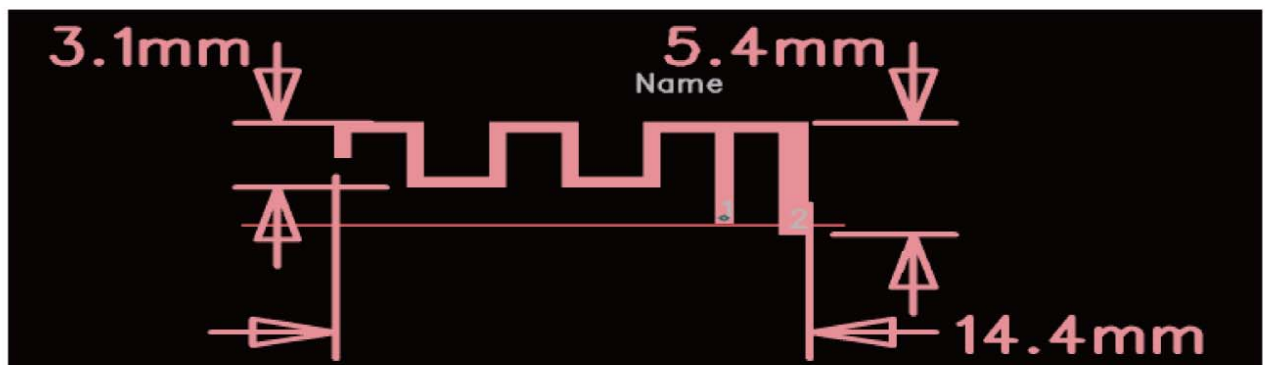
Gain Table

Unit in dBi @ 2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg	Peak	Avg	
Module Board	-0.8	-0.5	0	-3.8	0	-3.0	58.5%

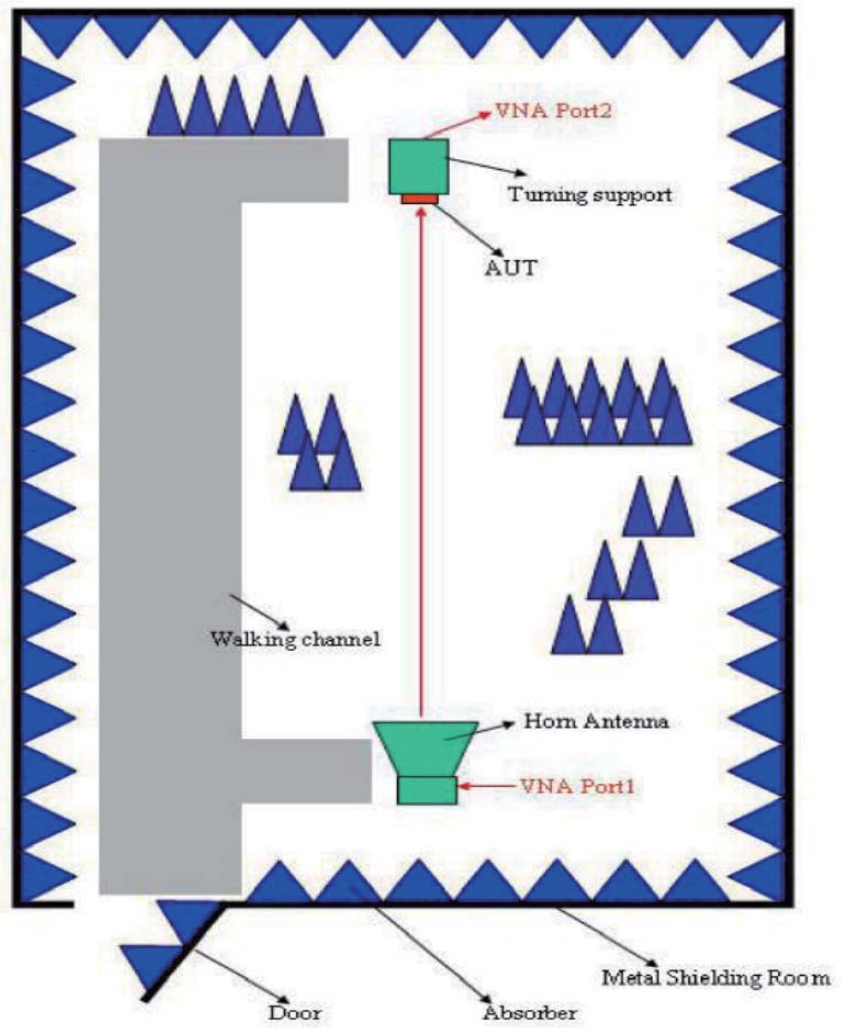
## Return Loss



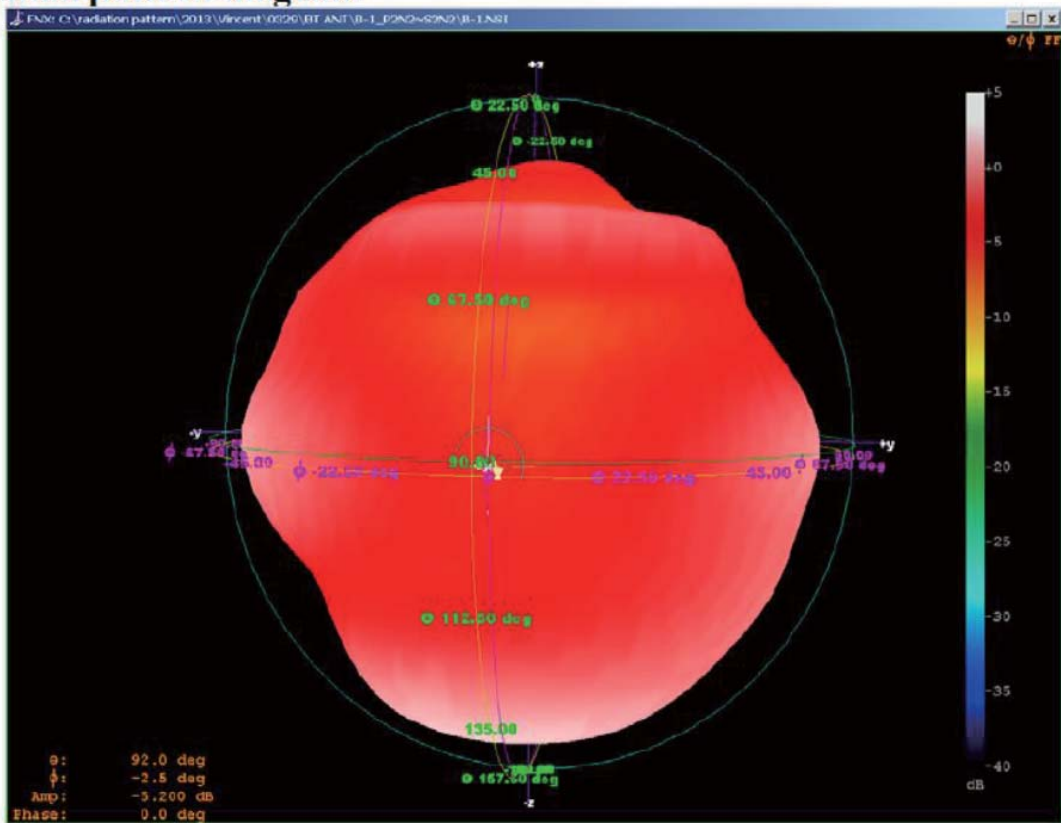
## Antenna Size



# The Environment of Antenna Radiation Pattern

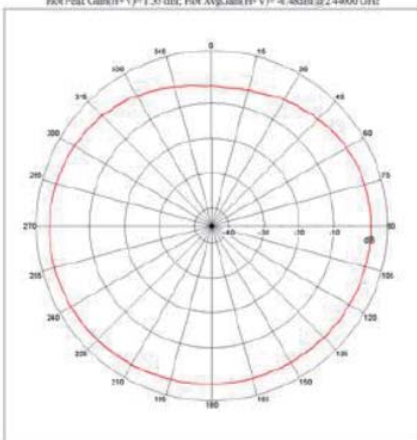


# 3D radiation pattern diagram



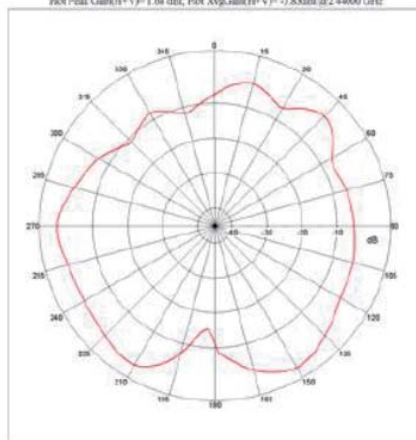
## XY-plane

Far-field Power Distribution(H+V) on X-Y Plane  
 Plot Peak Gain(H+V)= 1.35 dB; Plot Avg.Gain(H+V)= -4.48dB @2.4800 GHz



## XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane  
 Plot Peak Gain(H+V)= 1.68 dB; Plot Avg.Gain(H+V)= -3.83dB @2.4800 GHz



## YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane  
 Plot Peak Gain(H+V)= 1.11 dB; Plot Avg.Gain(H+V)= -3.99dB @2.4800 GHz

