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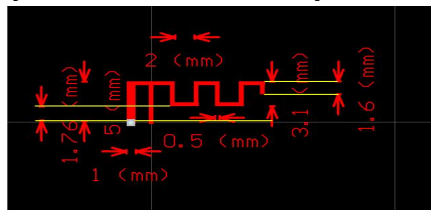
Product specification

Quick Reference Date

Model	Antenna module on the system board	
Frequency	2.45GHz*	
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)	1.7(Peak Gain XZ-plane)	
Maximum Power(dBm)	1.3(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

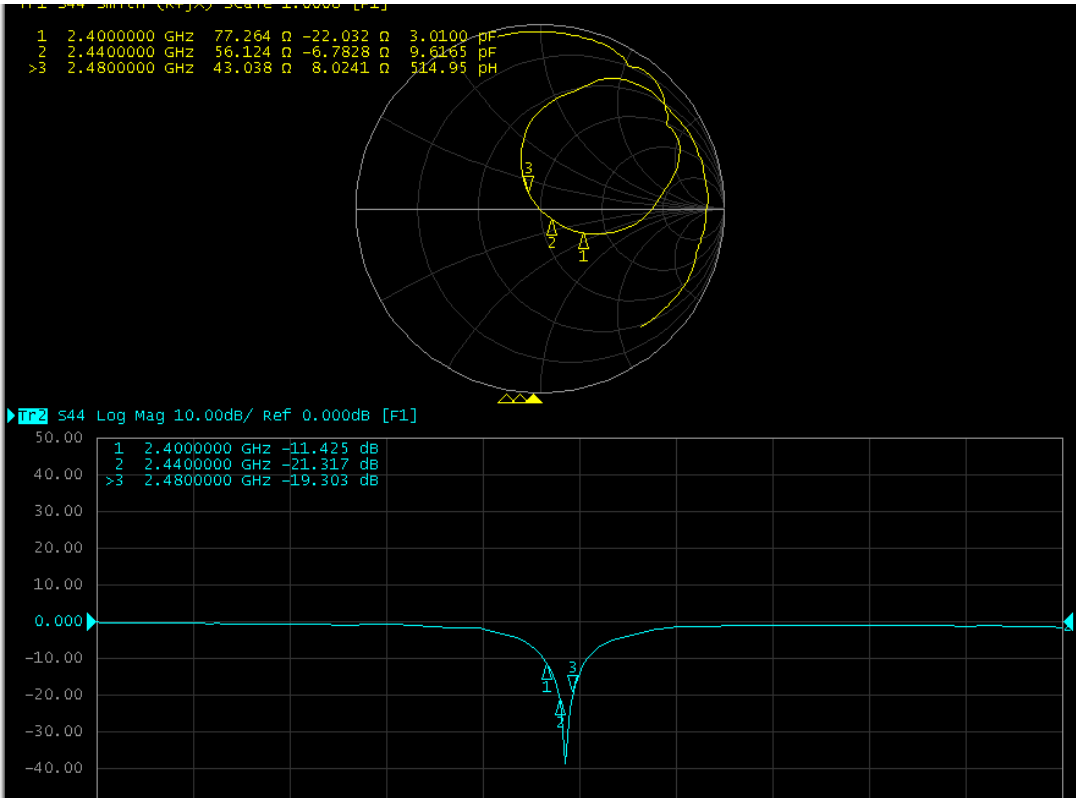


Antenna Gain

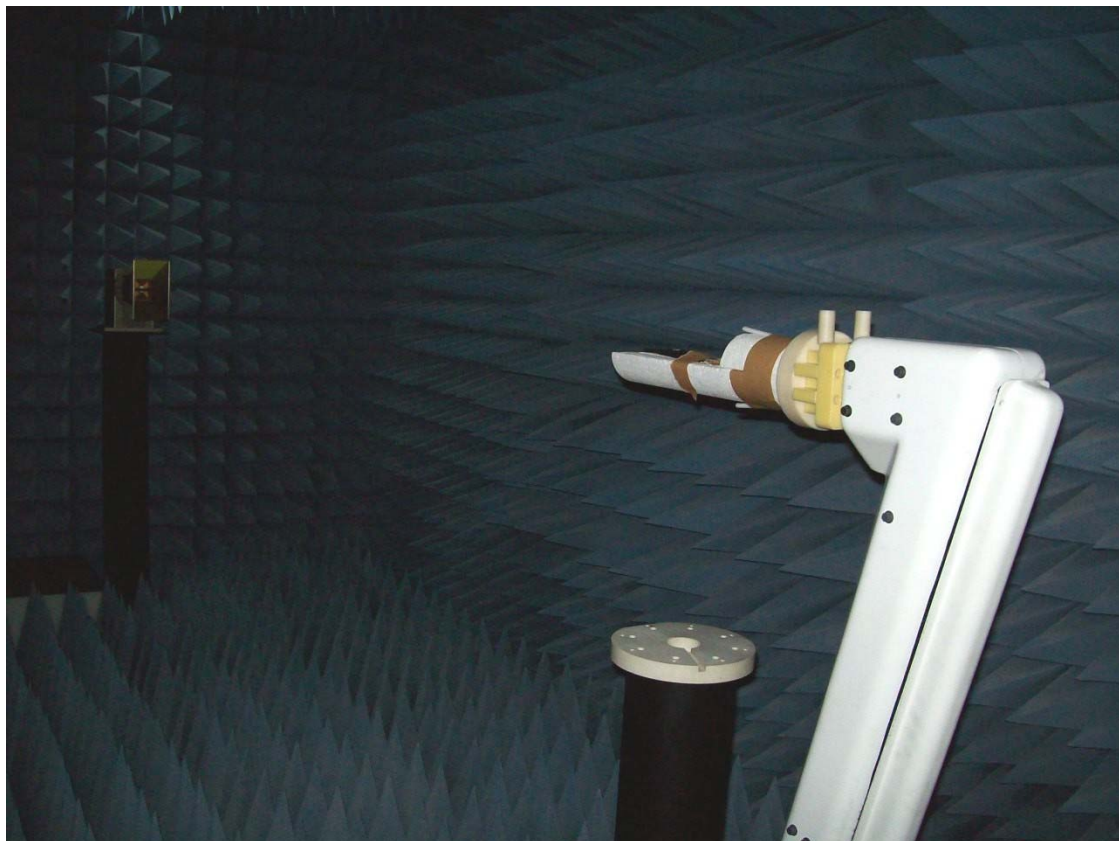
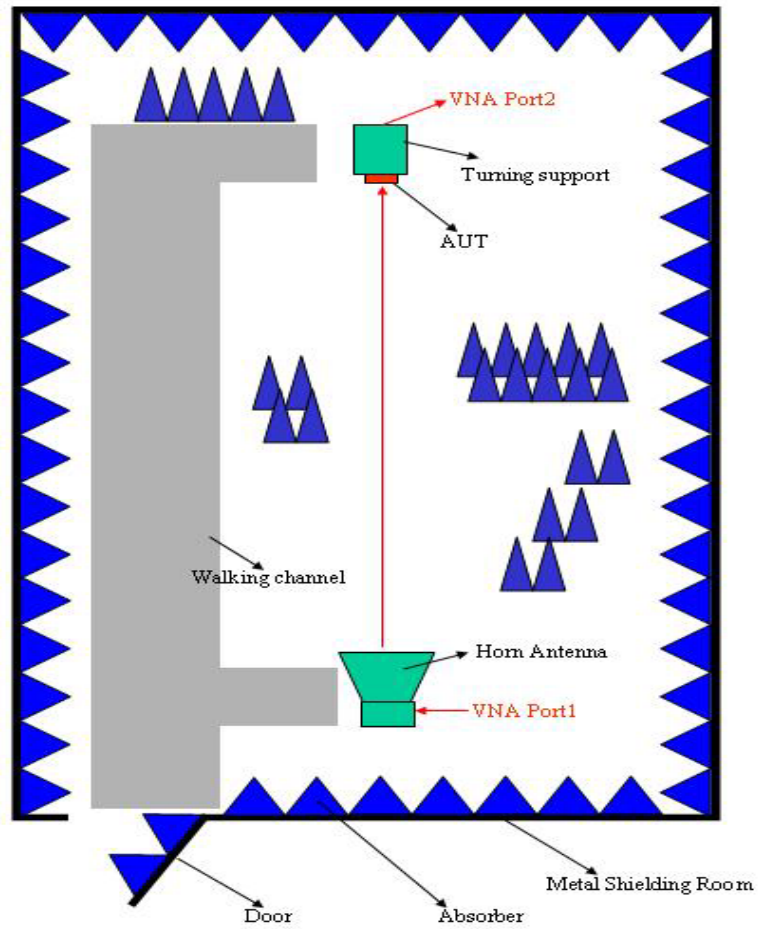
Gain Table

Unit in dBi @ 2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg	Peak	Avg	
Module Board	1.3	-0.5	1.7	-3.8	1.1	-3.0	58.5%

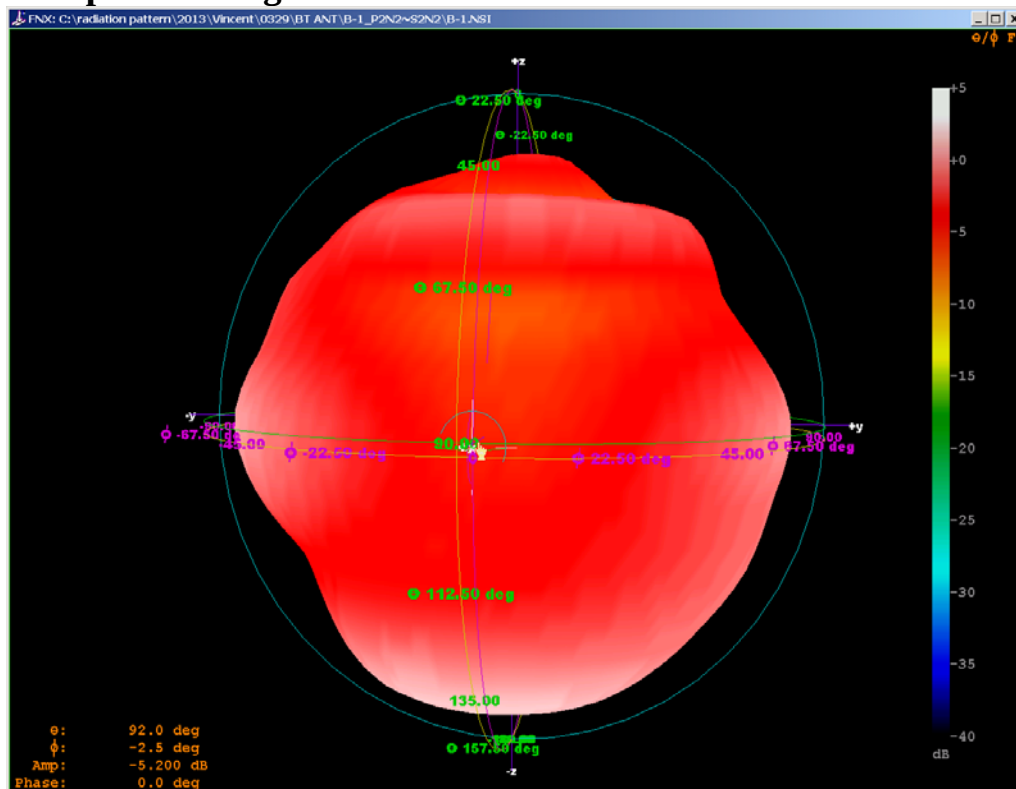
Return Loss



The Environment of Antenna Radiation Pattern

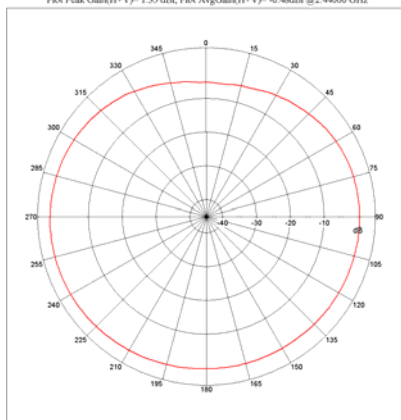


3D radiation pattern diagram



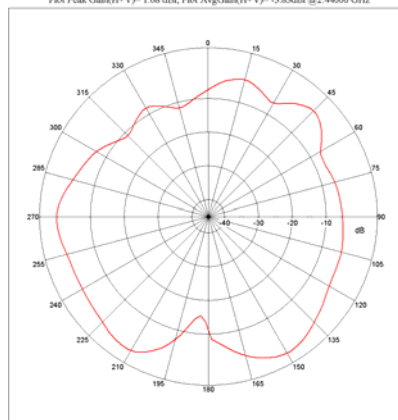
XY-plane

Far-field Power Distribution(H+V) on X-Y Plane



XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane



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

