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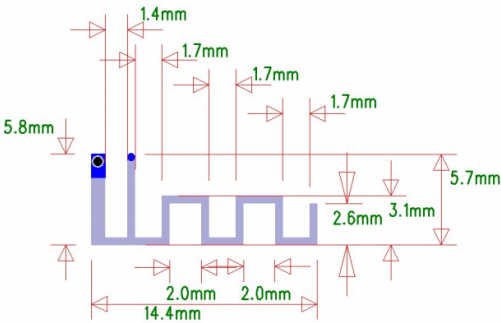
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequency Range	2.4GHz -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)	1.7(Peak Gain XZ-plane)	
Maximum Power (dBm)	1.3 (XZ-plane)	
Minimum Power (dBm)	-4(XZ-plane))	
Avg. Power (dBm)	-0.5(XZ-plane)	
Max/Min Ratio (dB)	5.3(XZ-plane)	
Max/Avg Ratio (dB)	1.8(XZ-plane)	
Min/Avg Ratio (dB)	-3.5(XZ-plane)	
Average Gain (dB)	-3.8(Avg Gain XZ-plane)	

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

Antenna Layout & module on the system board

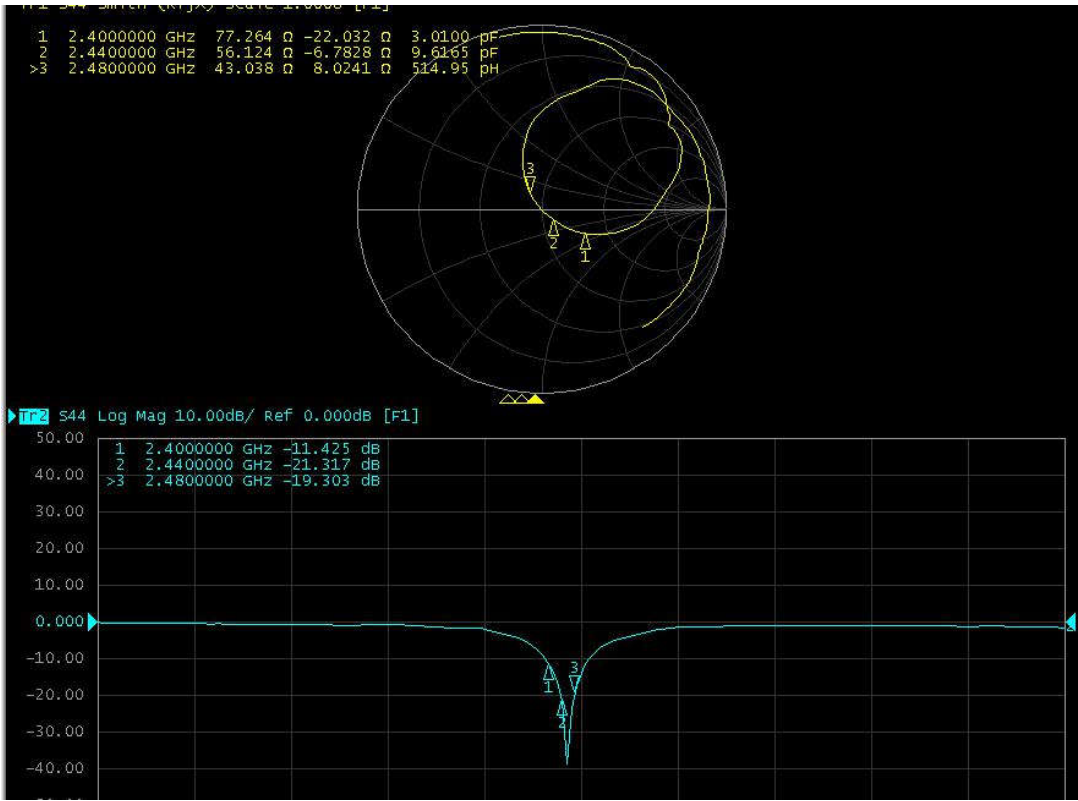


Antenna Gain

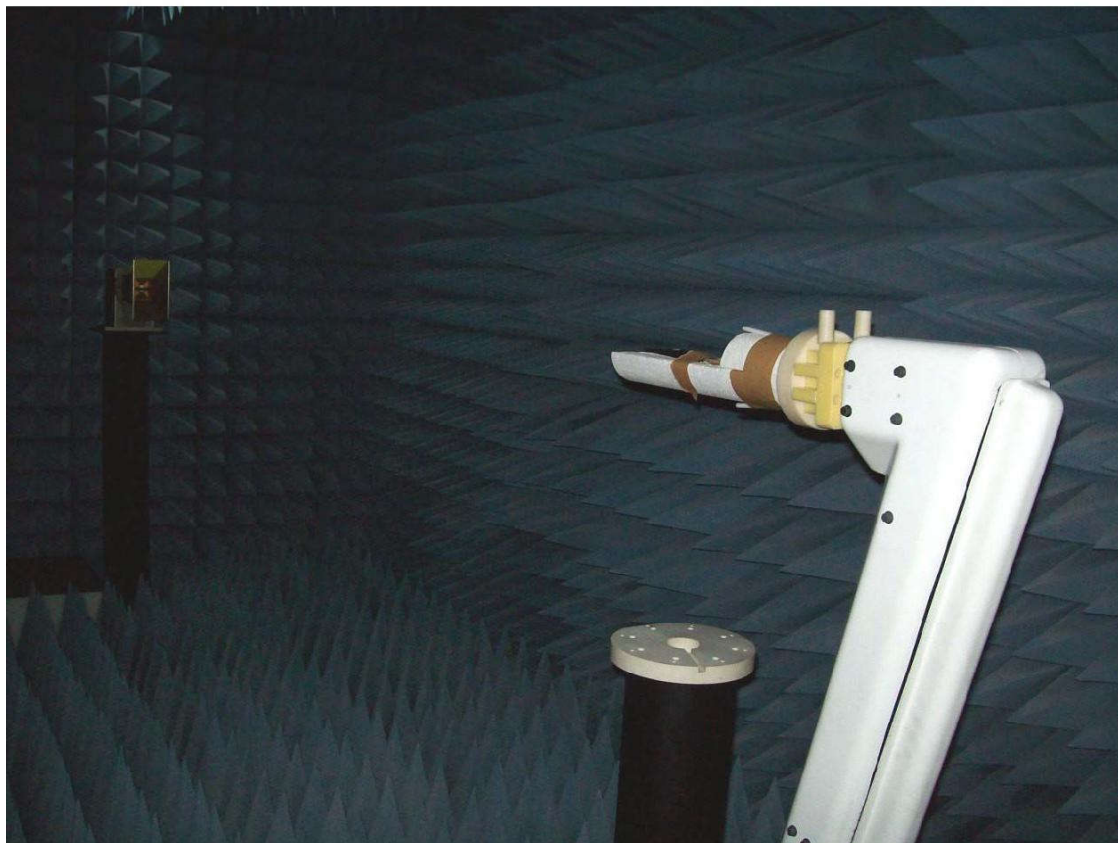
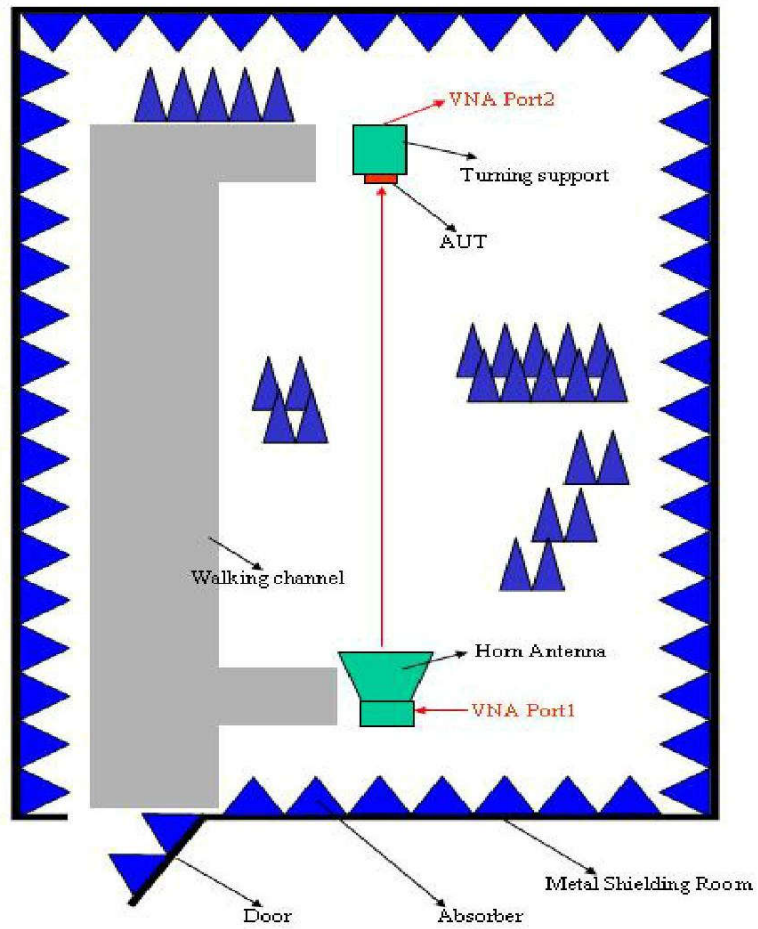
Gain Table

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%

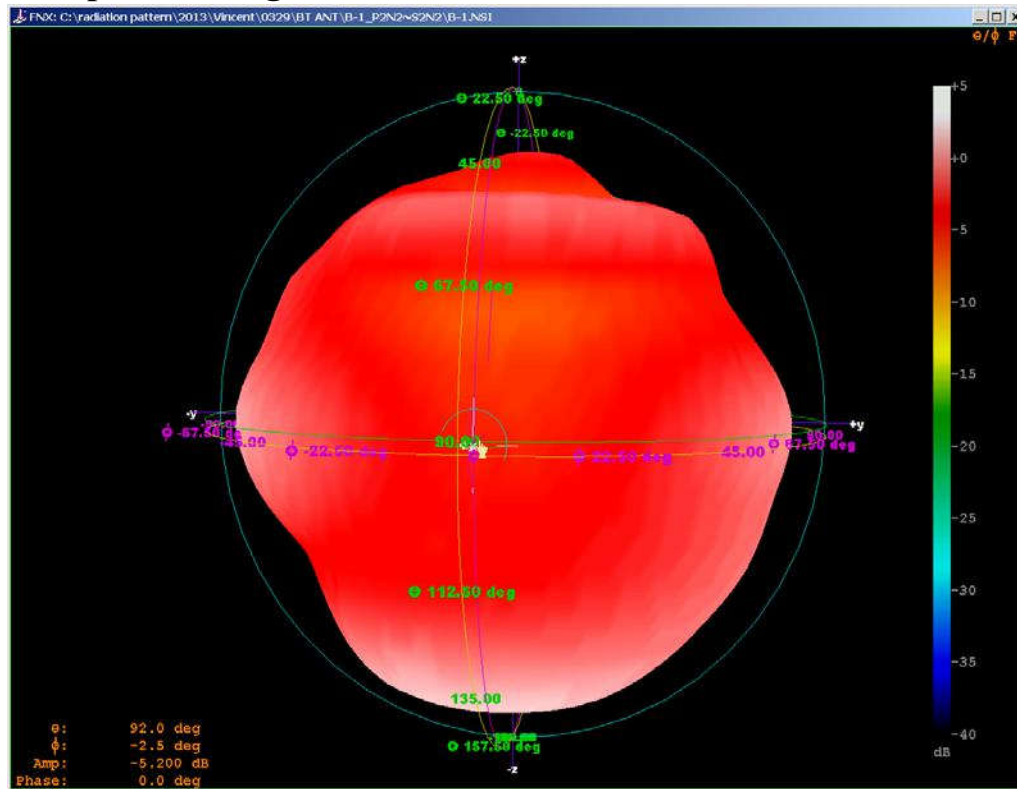
Return Loss



The Environment of Antenna Radiation Pattern



3D radiation pattern diagram



XY-plane

XZ-plane

YZ-plane