Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	-2	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	60.2 %	
Gain (dBi)	1.3 (Peak Gain XZ-plane)	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	Vertical & Horizontal	
V . S .W . R	< 1.4	

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

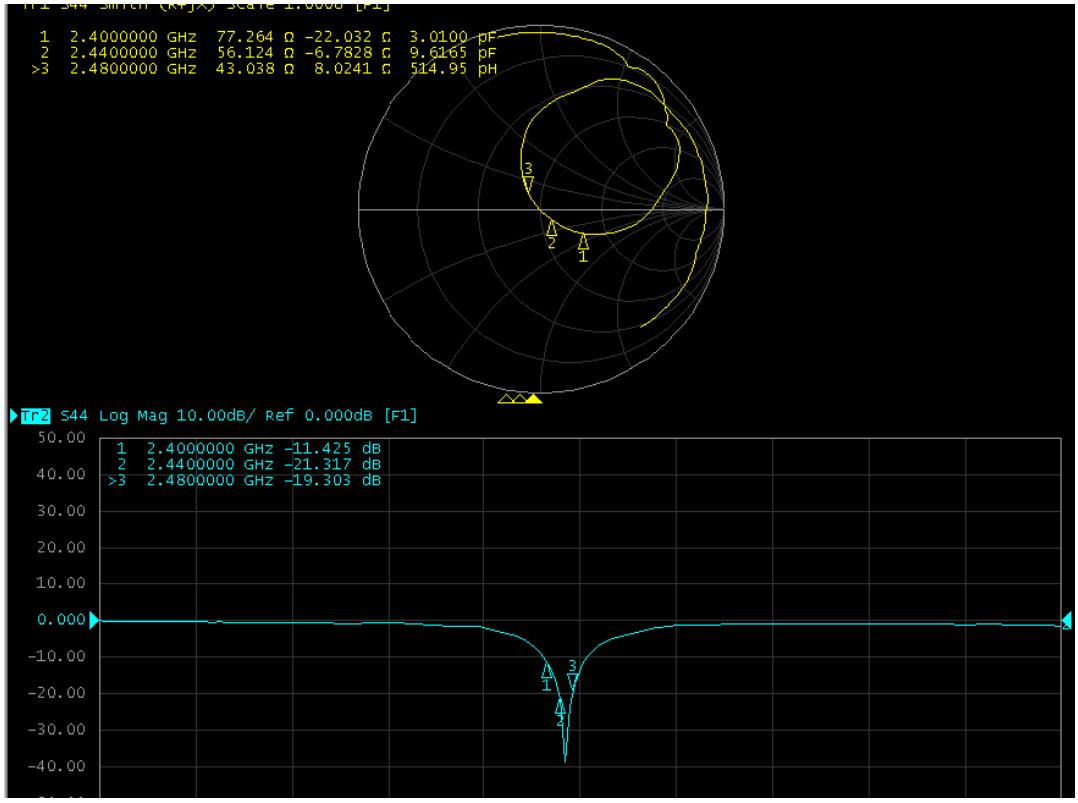
Antenna Layout & module on the system board

Antenna Gain

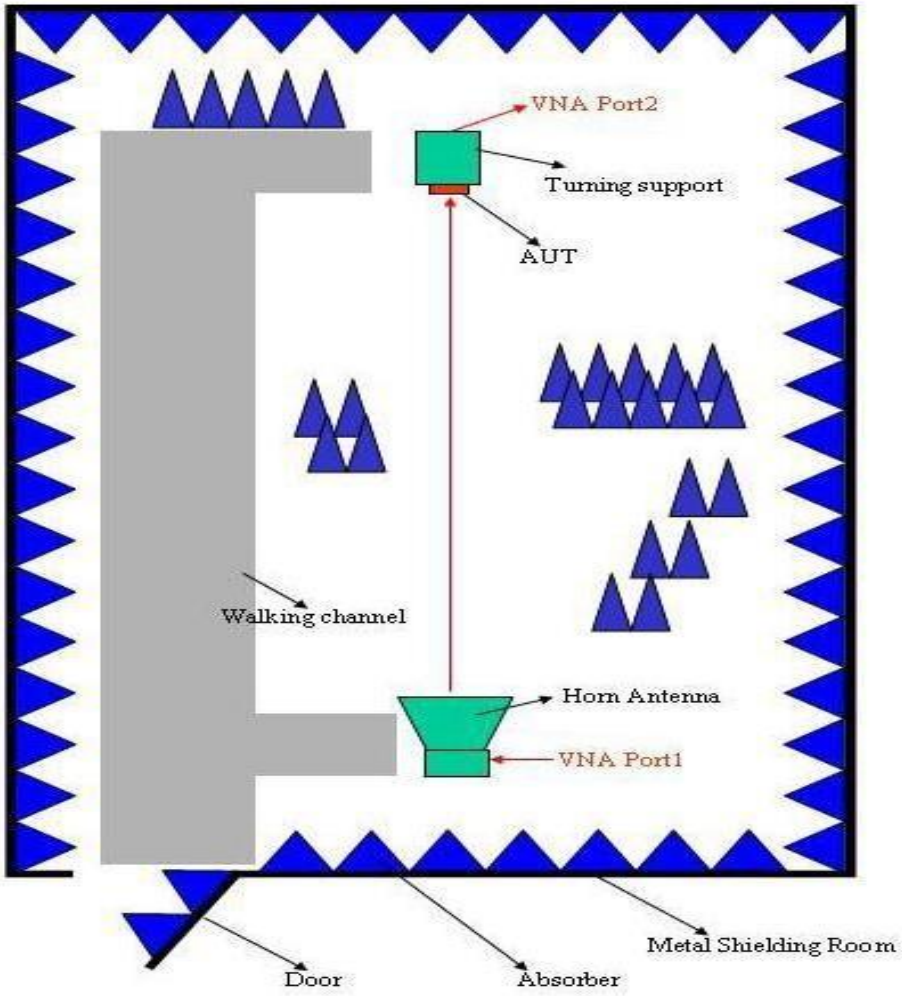
Gain Table

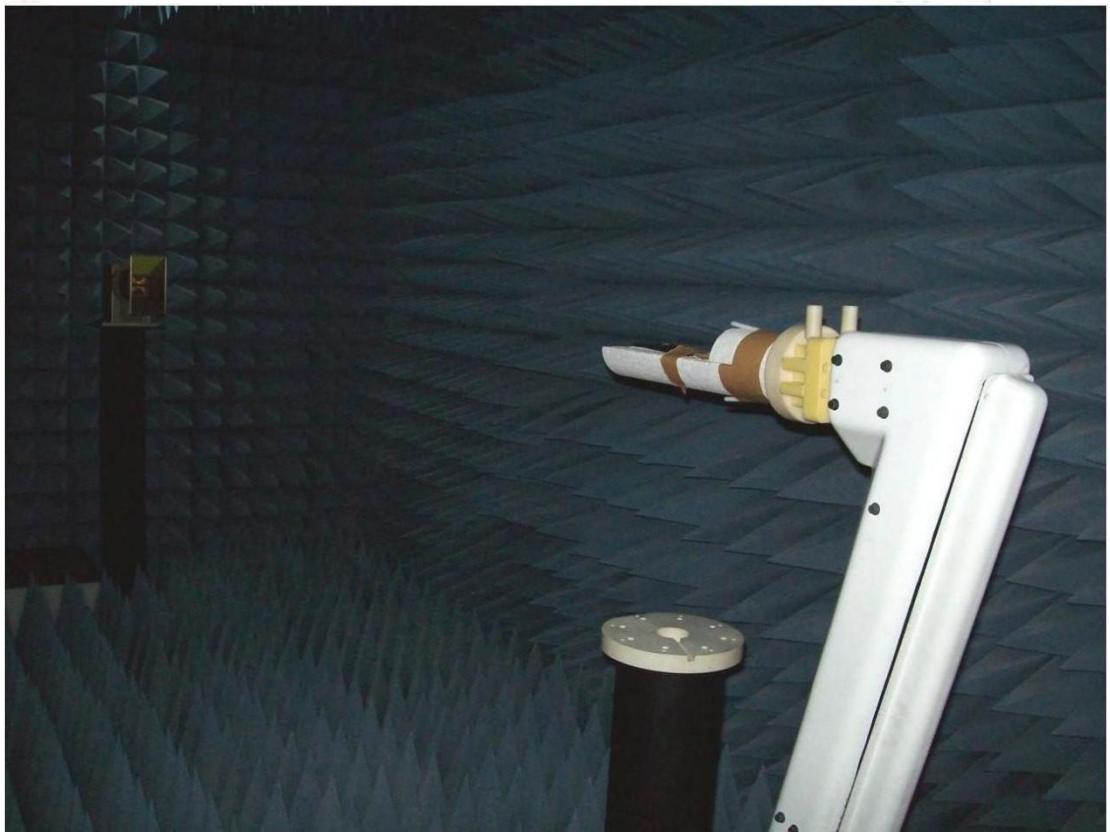
Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.3	-0.5	1.1	-3.8	1.1	-3.0	4.2 %

Retum Loss

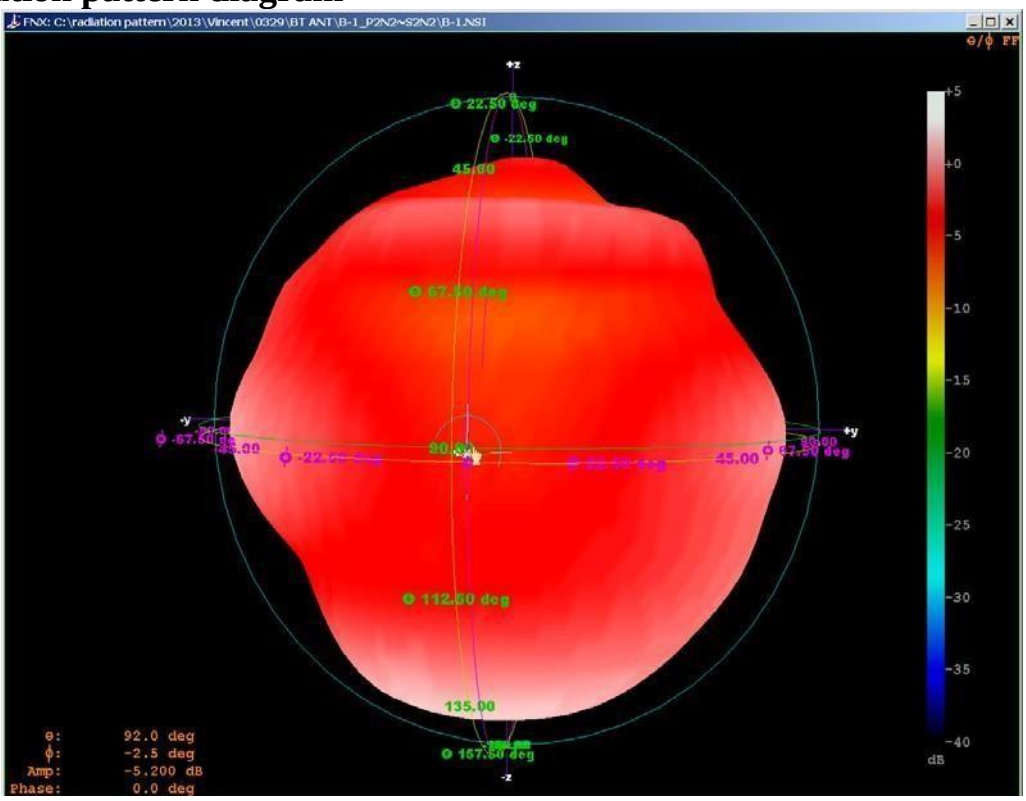
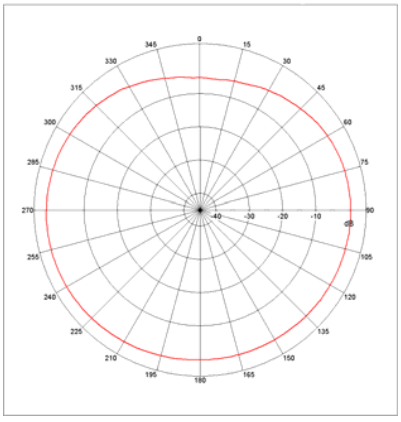
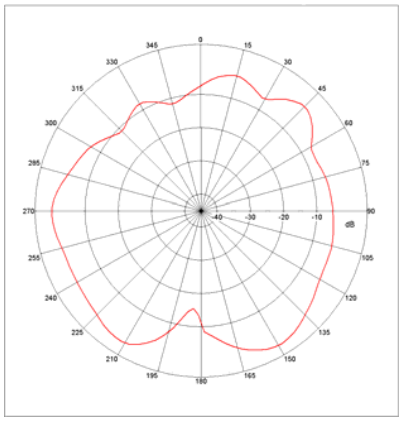
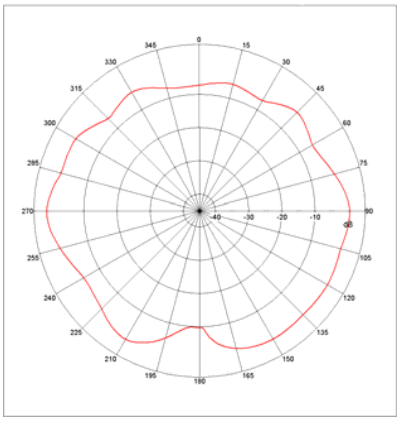

1 2.4000000 GHz 77.264 Ω -22.032 Ω 3.0100 pF
2 2.4400000 GHz 56.124 Ω -6.7828 Ω 9.6165 pF
>3 2.4800000 GHz 43.038 Ω 8.0241 Ω 514.95 pH
Tr2 S44 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 2.4000000 GHz -11.425 dB
2 2.4400000 GHz -21.317 dB
>3 2.4800000 GHz -19.303 dB
50.00
40.00
30.00
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00

The Environment of Antenna Radiation Pattem





3D radiation pattern diagram



XY-plane	XZ-plane	YZ-plane
Far-field Power Distribution(H+V) on X-Y Plane Plot Peak Gain(H+V)= 1.3dBi; Plot Avg Gain(H+V)= -0.5dBi@2.4GHz	Far-field Power Distribution(H+V) on X-Z Plane Plot Peak Gain(H+V)= 1.1dBi; Plot Avg Gain(H+V)= -3.8dBi@2.4GHz	Far-field Power Distribution(H+V) on Y-Z Plane Plot Peak Gain(H+V)= 1.1dBi; Plot Avg Gain(H+V)= -3.0dBi@2.4GHz