

Onboard BT F-type Antenna Product specification

Manufacturer: ShenZhen RoyQueen Audio Technology Co.,Ltd

Address: The 2nd Floor, Shenhui Industrial Park, No.1010 Bulong Road, Longhua New District, Shenzhen

Product Name: Onboard BT F-type Antenna

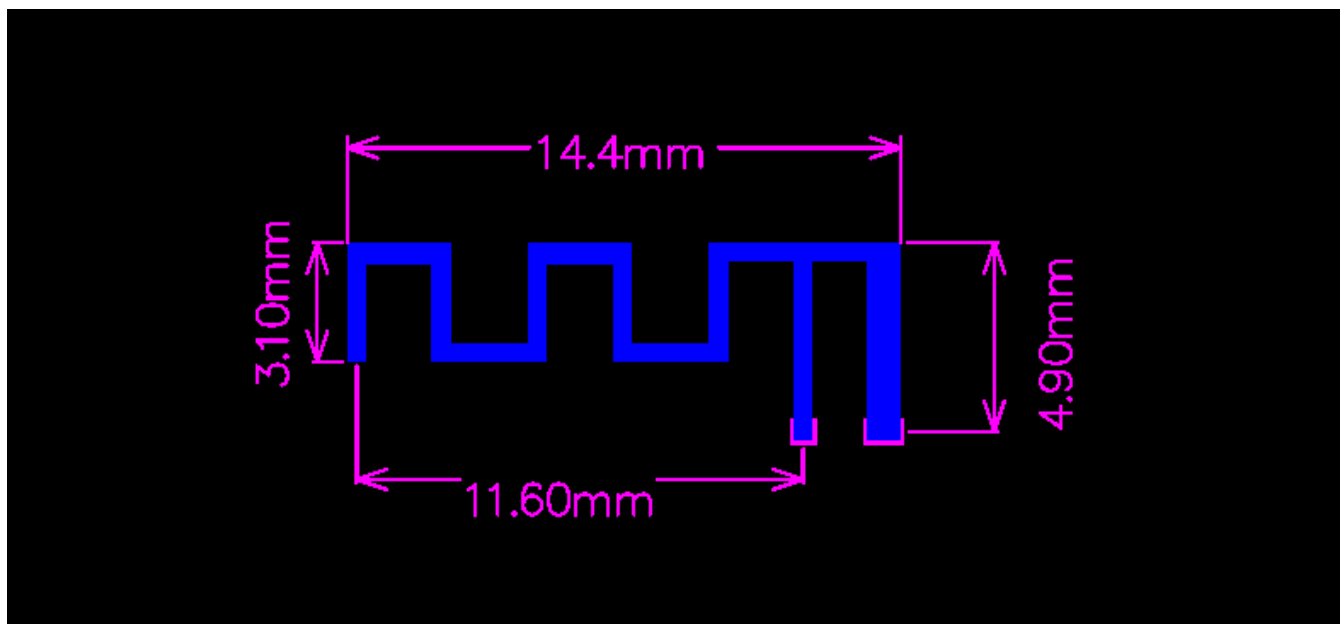
Quick Reference Data

	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)	1.2	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	1.9 (Avg Gain XY-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	V ertical & H orizontal	
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 type: PCB Antenna:

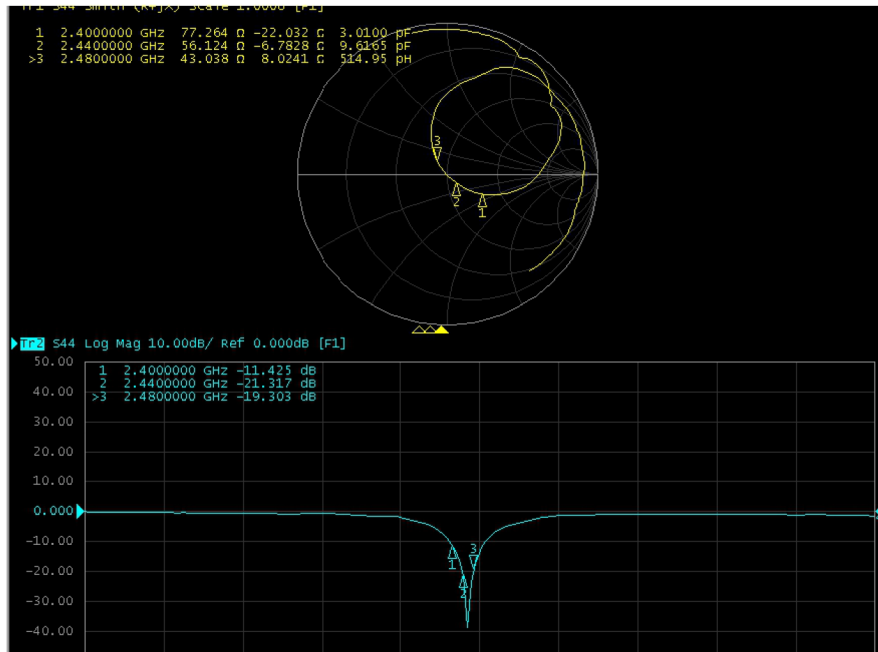


Antenna Gain:

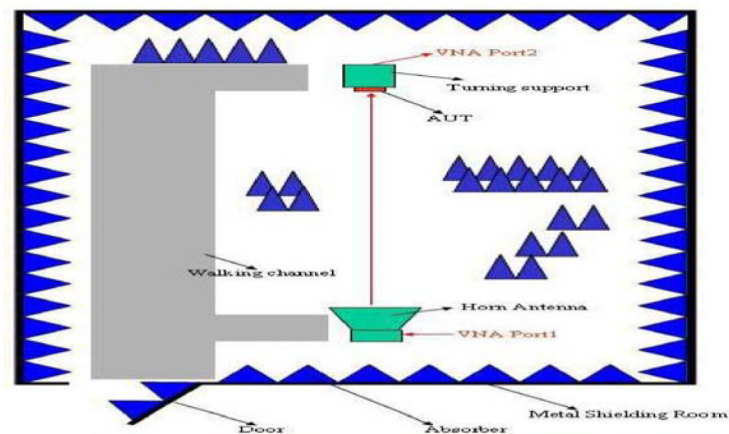
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.7	-0.48	1.9	-3.83	1.1	-2.99	60.2 %

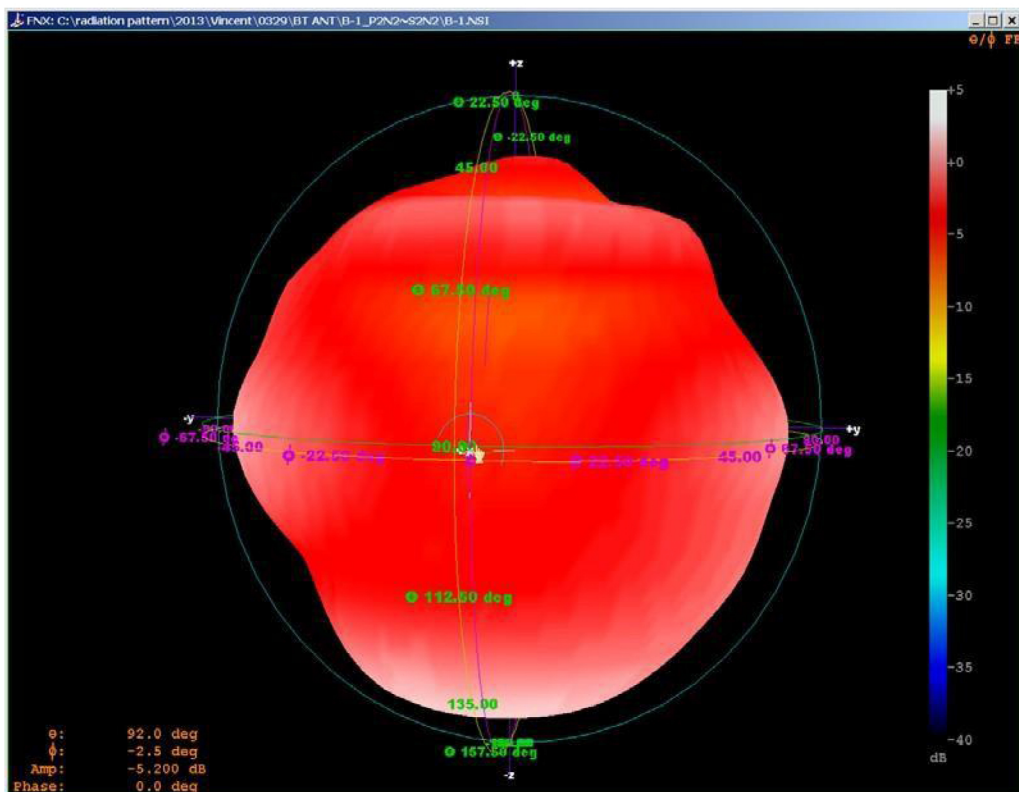
Return Loss:



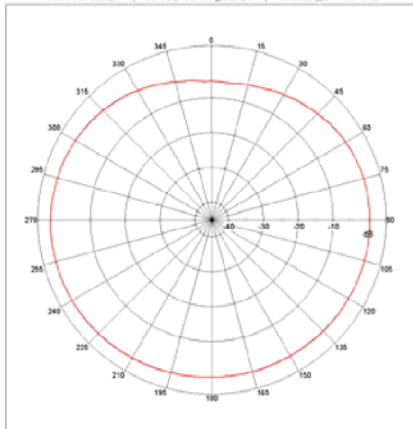
The Environment of Antenna Radiation Pattern:



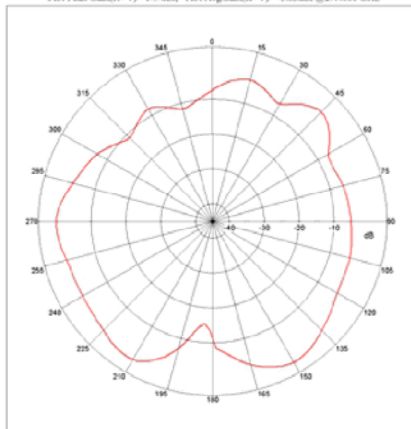
3D radiation pattern diagram:



Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain(H+V)= 1.7 dB; Plot AvgGain(H+V)= -0.45dB @2.44000 GHz



Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.9 dB; Plot AvgGain(H+V)= -3.83dB @2.44000 GHz



Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 1.1 dB; Plot AvgGain(H+V)= -2.99dB @2.44000 GHz

