

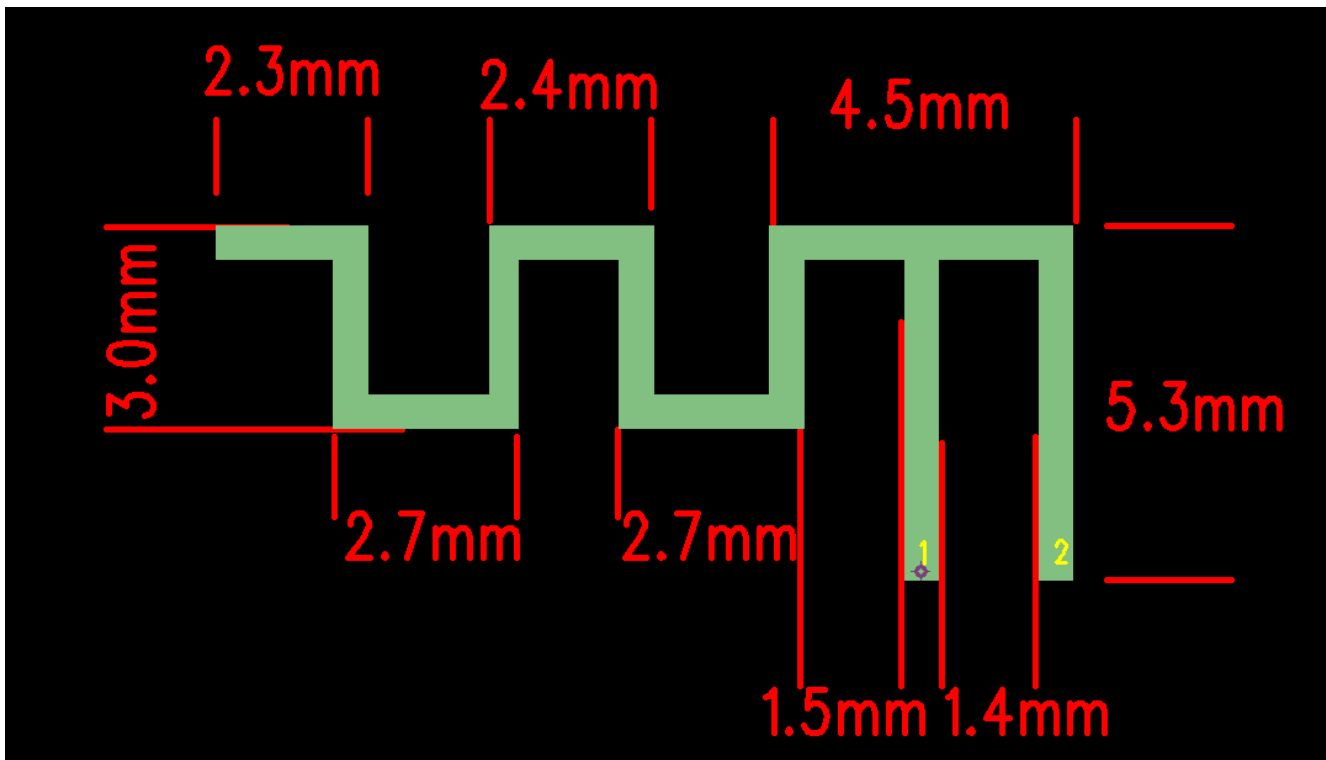
BT Antenna Product Approval

一、 Antenna introduction

PCB printed antenna, suitable for single-sided and multi-layer PCB board.

二、 Antenna size

1、 Dimension Figure: 12.8mm * 5.2mm



三、Antenna Parameter

The Bluetooth operating frequency is 2402-2480MHz, and resonance is generated in this band.

The main parameters of the antenna

Bluetooth built-in antenna	
Frequency (MHz)	2402 ~ 2500 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	-0.347 dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

四、Antenna gain detection report

Spectrum Detector: PK

Test Date : June 8, 2013

Test By: Andy

Temperature : 28°C

Test Result: PASS

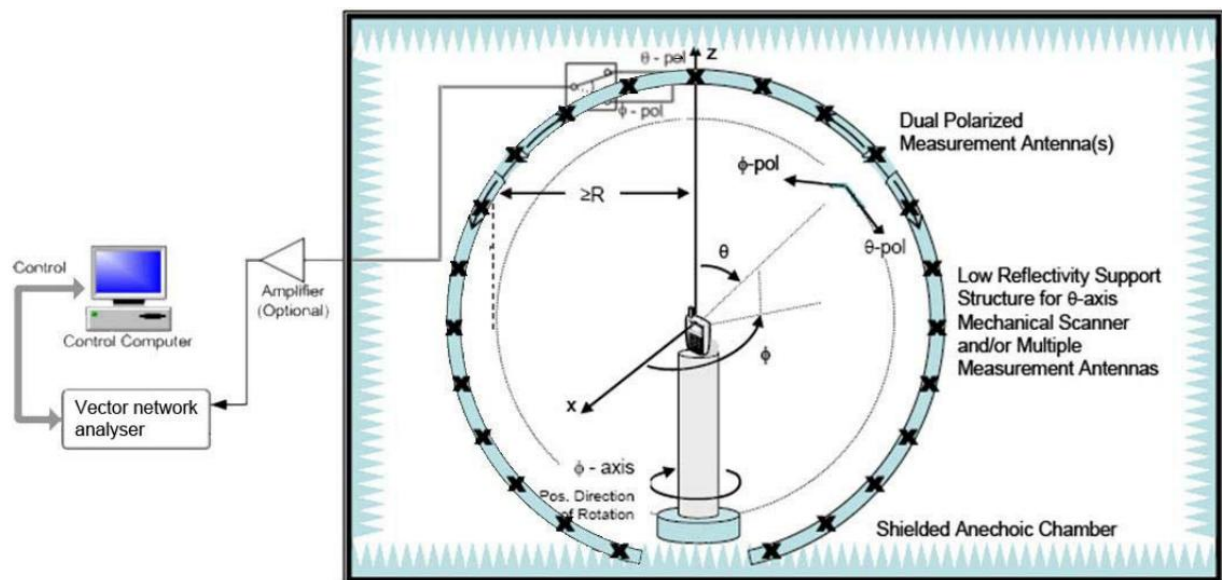
Humidity : 55 %

Modulation: GFSK

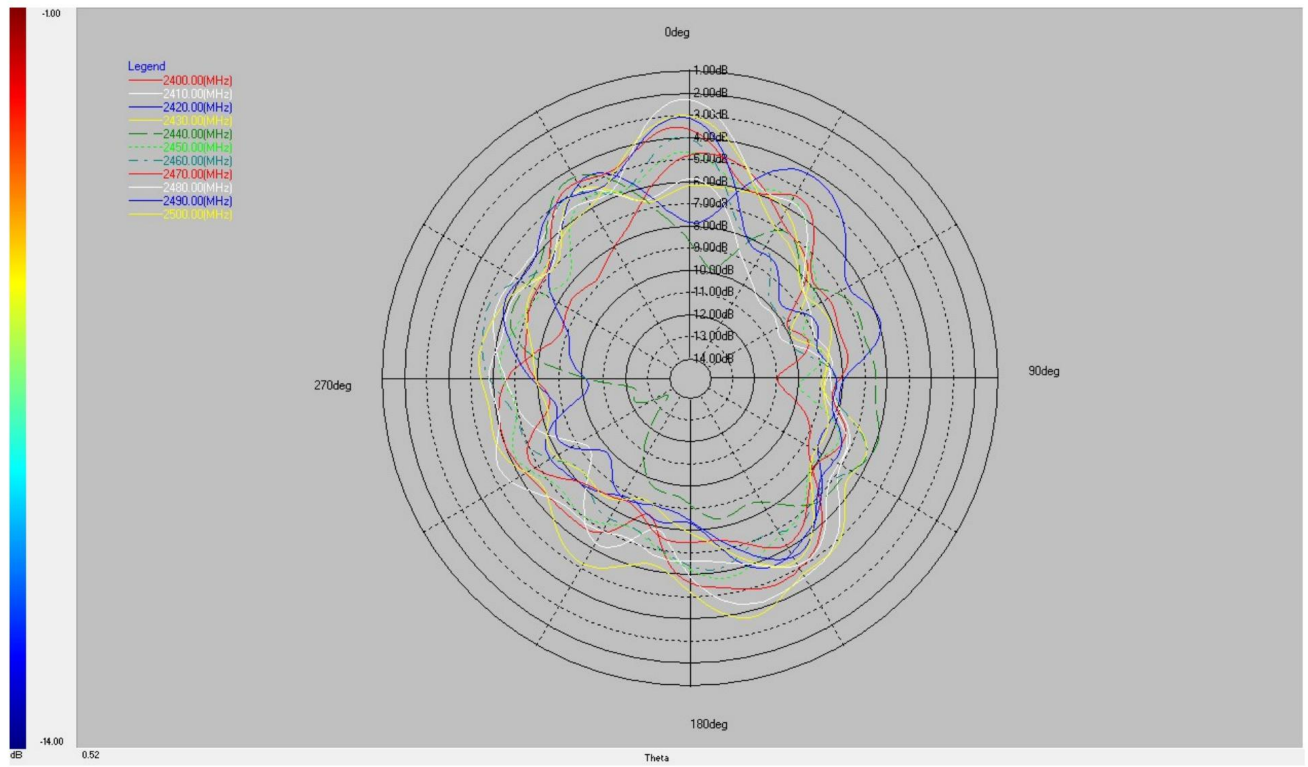
Peak Gain:

Frequency VNA : (MHz)	E Total. dB(dB)
2400MHz	-0.347483
2410MHz	-0.502625
2420MHz	-0.772879
2430MHz	-0.955555
2440MHz	-1.23072
2450MHz	-1.94066
2460MHz	-1.90725
2470MHz	-2.01968
2480MHz	-2.30721
2490MHz	-2.28333
2500MHz	-2.8728

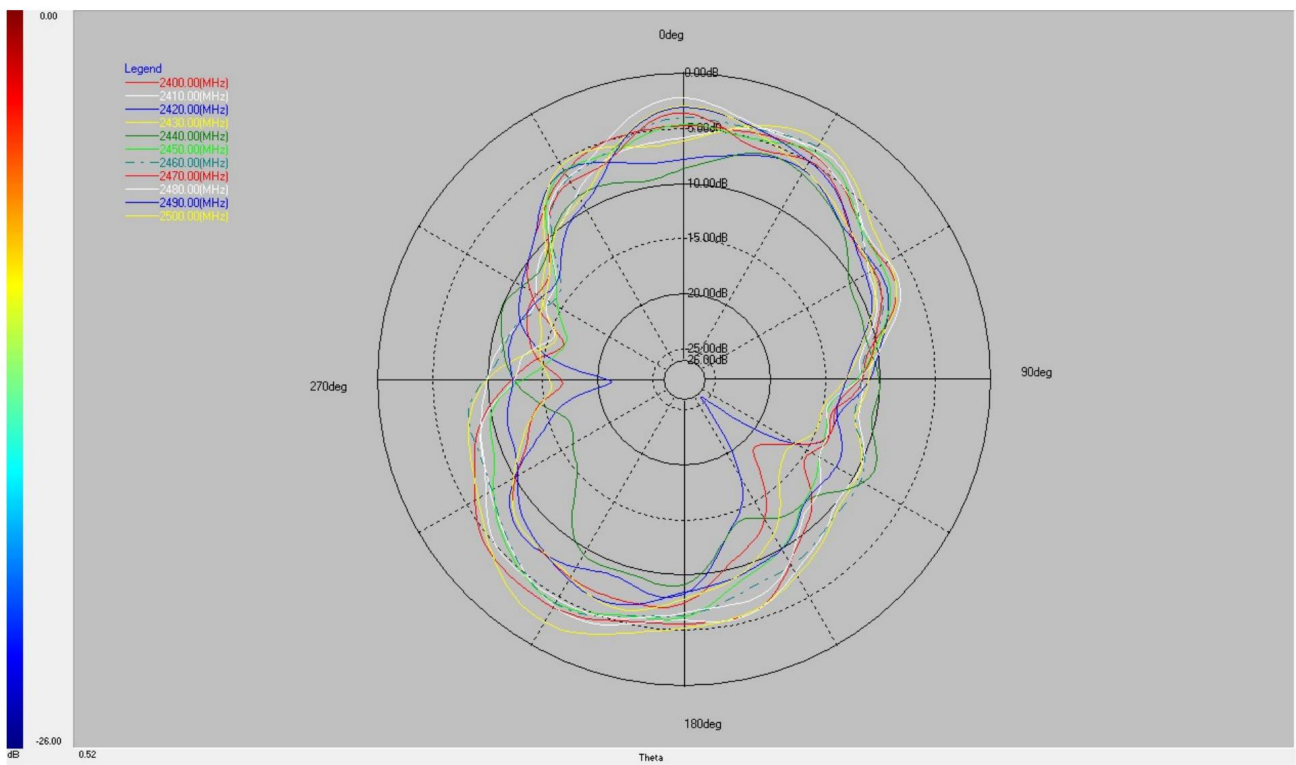
五、Test Setup



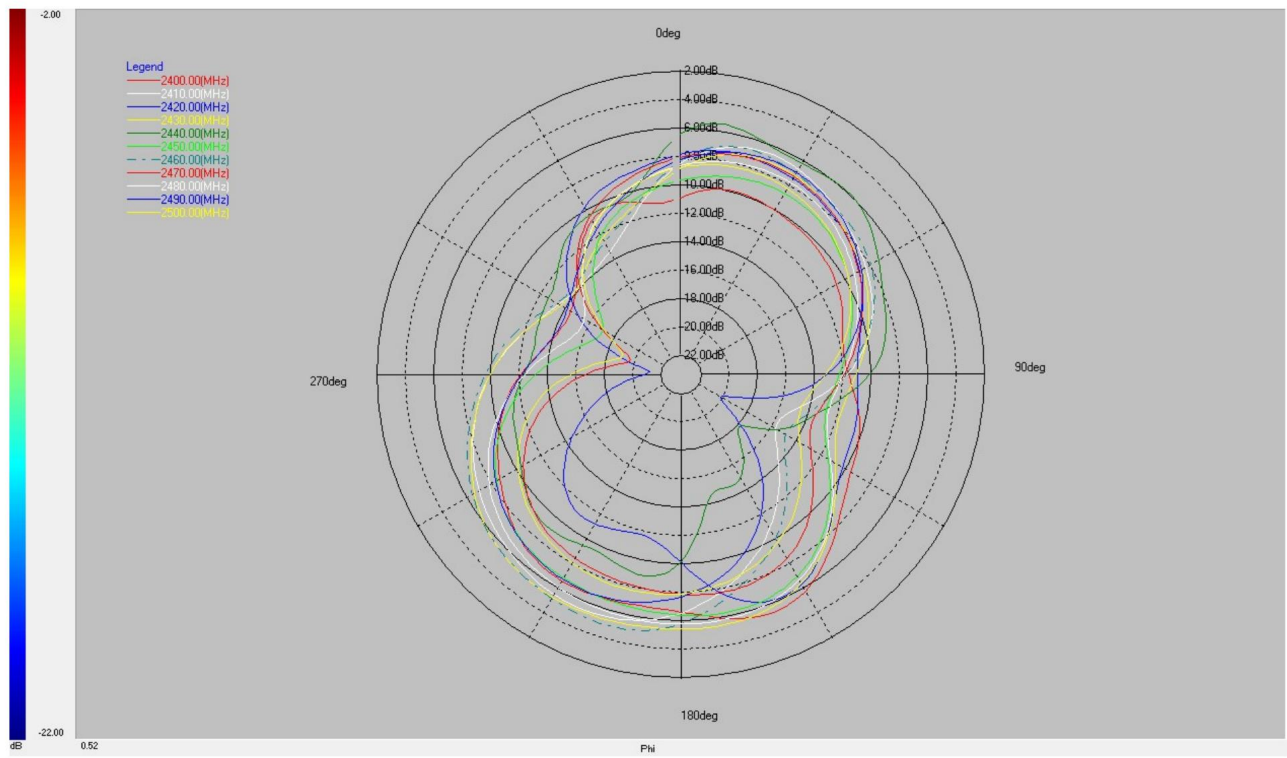
六、2D Radiation Pattern



PHI 0 度

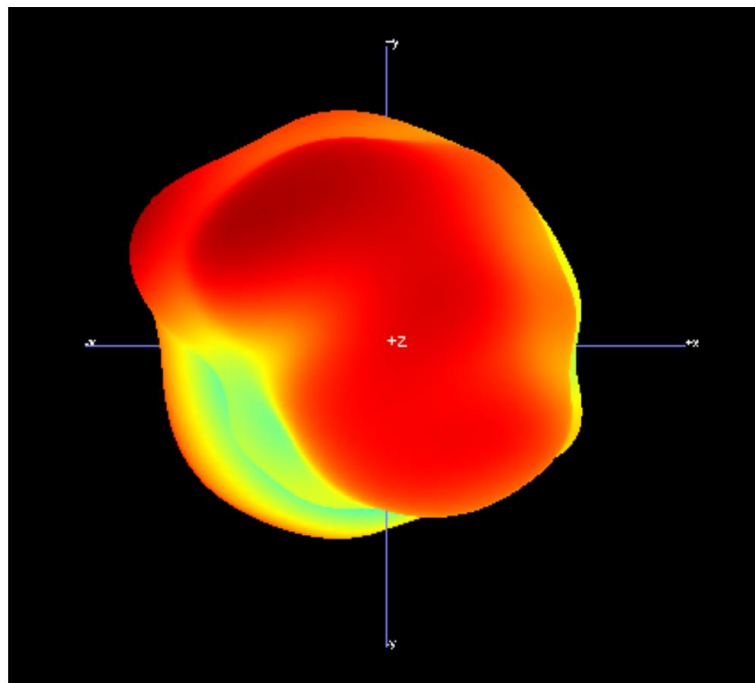


PHI 90 度

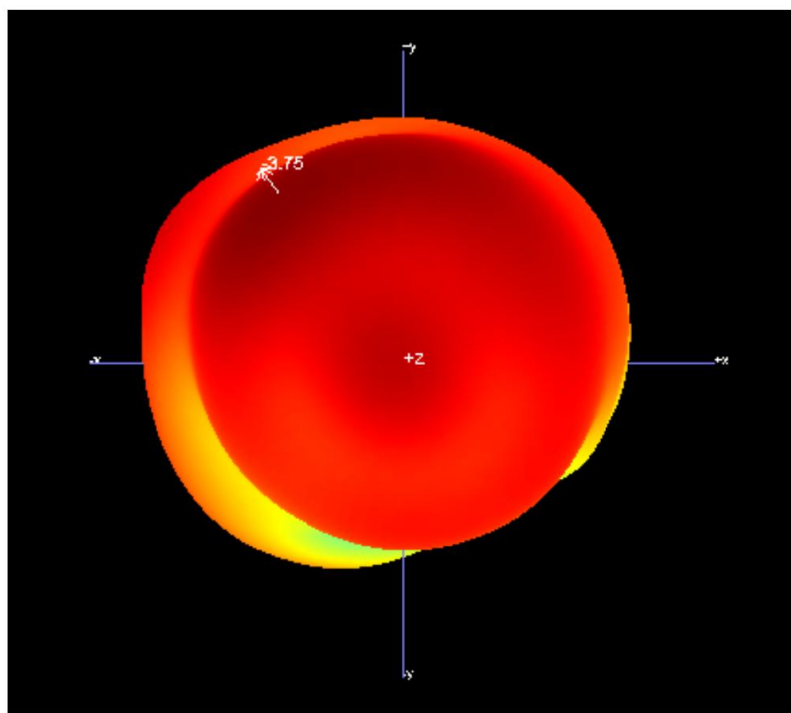


THETA 90 度

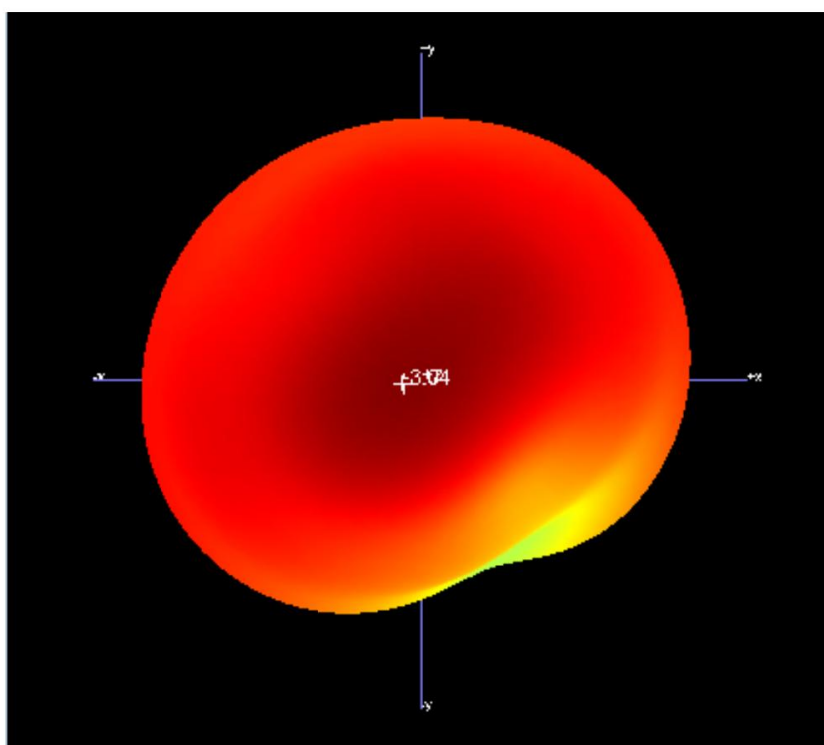
七、3D Radiation Pattern



2400MHz



2450MHz



2500MHz