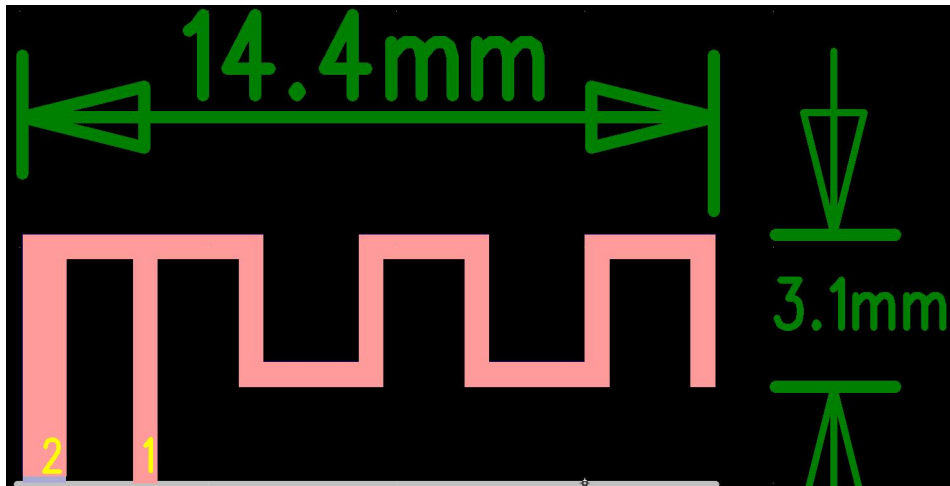


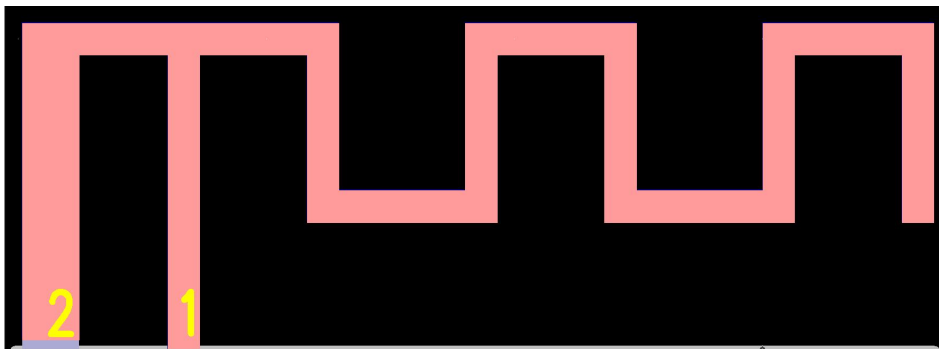
1. Antenna Type: PCB Antenna

2. mechanical dimension

a, antenna dimension

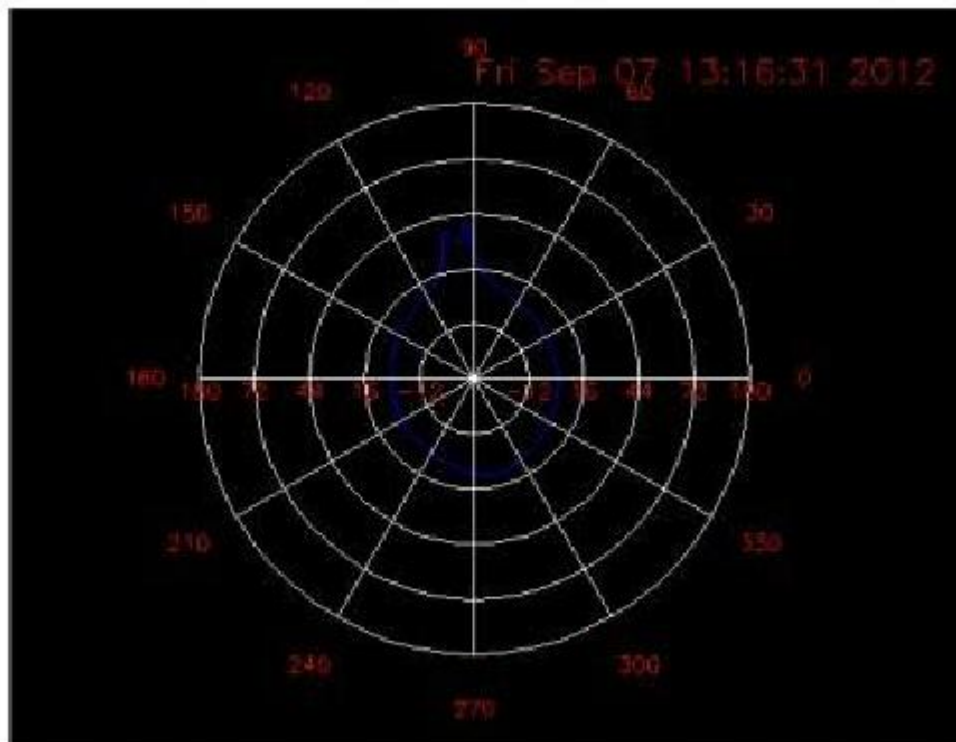


b. antenna final figure



c, antenna direction

2.445GHZ radiation pattern



3. antenna specification

Bluetooth mechanical specifiction

2400-2500MHZ

Electrical specifications	
Frequency range (MHz)	2400-2500
Polarization	Linear
Gain (dBi)	-2.41dBi
Impedance (Ω)	50
Directivity	Omni-directional
VSWR	≤ 2.0 (Center frequency)

Mechanical specifications

Operation Temperature (°C)	-30~60
Humidity (%)	5~95

4. Gain

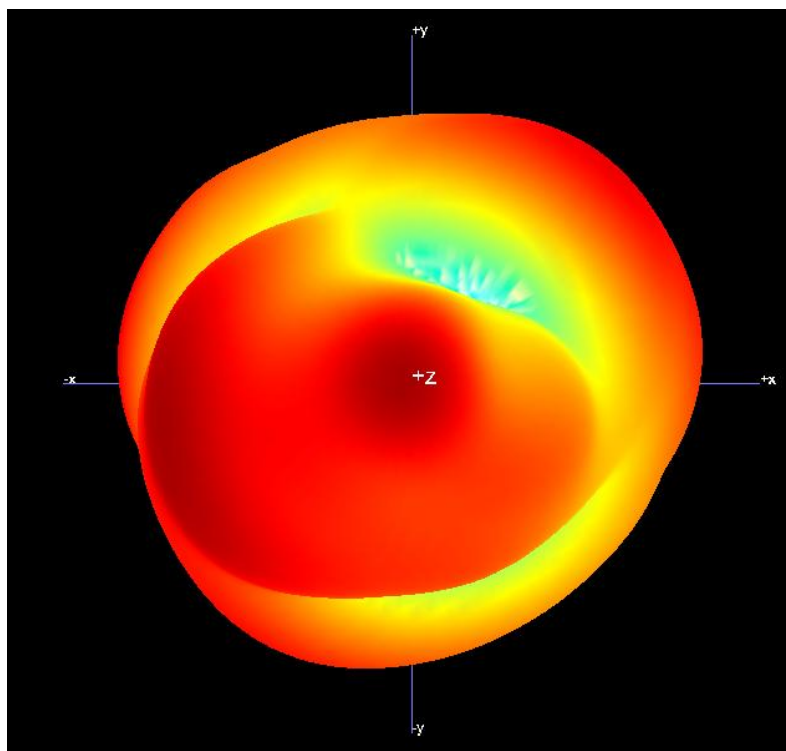
Frequency	E Total. dB(dB)	Efficiency()
2400MHz	-3.86886	16.23%
2410MHz	-3.80462	17.25%
2420MHz	-3.58124	17.64%
2430MHz	-3.50624	18.48%
2440MHz	-3.41955	17.65%
2450MHz	-3.26336	17.72%
2460MHz	-2.9754	17.49%
2470MHz	-2.67499	17.49%
2480MHz	-2.41254	17.15%

5. INSERTION LOSS/RETURN LOSS/VSWR

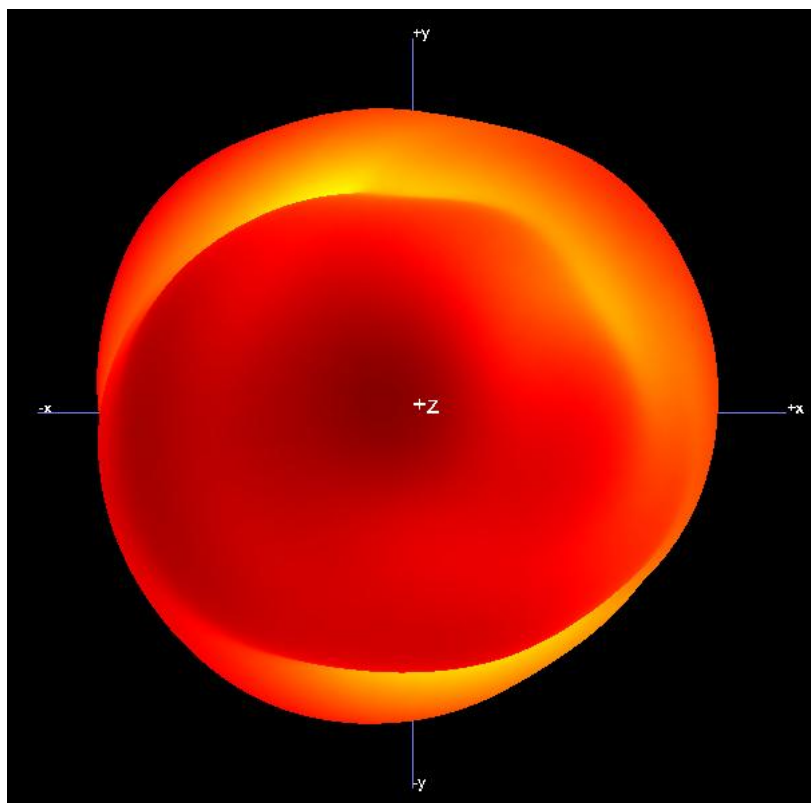
Frequency	Input impedance(Ω)	Return loss(dB)	VSWR
2400MHz	38.886	-6.354	2.512
2402MHz	37.336	-6.412	2.543
2440MHz	22.254	-6.753	2.501
2480MHz	18.320	-6.613	2.522
2500MHz	18.715	-6.702	2.518

6. 3D Pattern

2400MHZ



2440MHZ



2480MHZ

