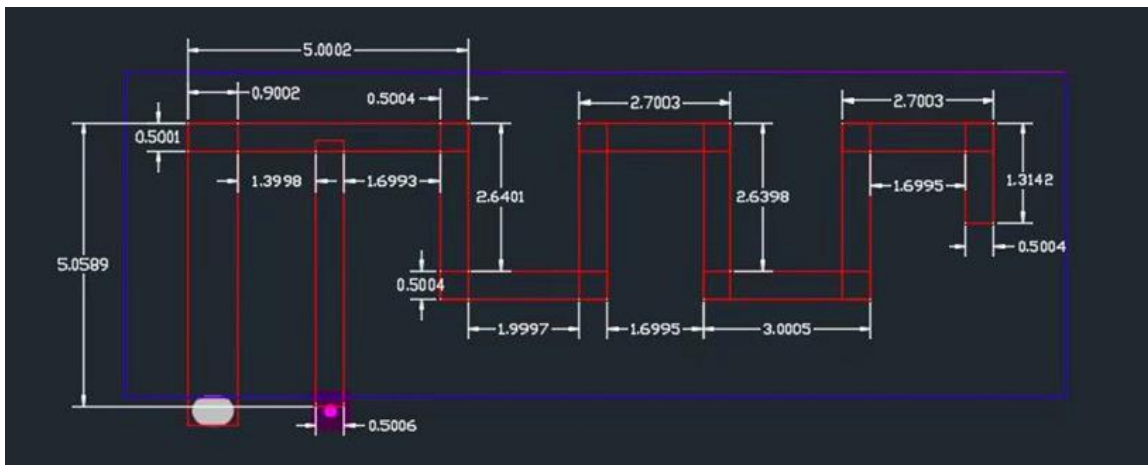

Bluetooth antenna

1. Antenna introduction

The Bluetooth module antenna is directly used on the PCB board.

2. Antenna configuration



3. Antenna Information

The Bluetooth antenna operates at 2402-2480 MHz, and resonates in this band. The following table shows the main parameters of the antenna.

Bluetooth built-in antenna	
Frequency(MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

4. Antenna gain detection

Spectrum Detector:

PK

Test Date :

June 8, 2013

Test By:

Andy

Temperature :

28°C

Test Result:

PASS

Humidity :

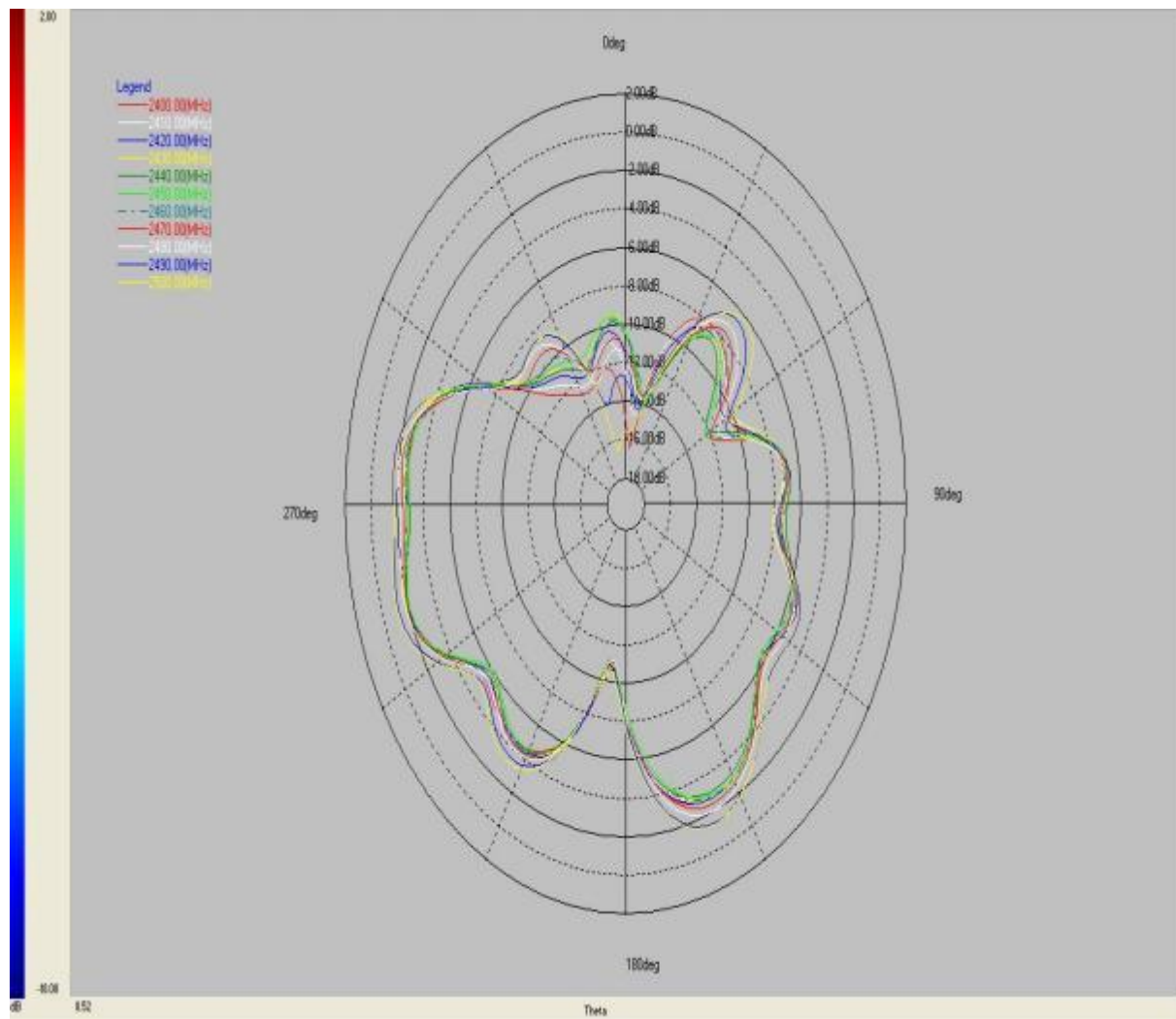
55 %

Modulation:

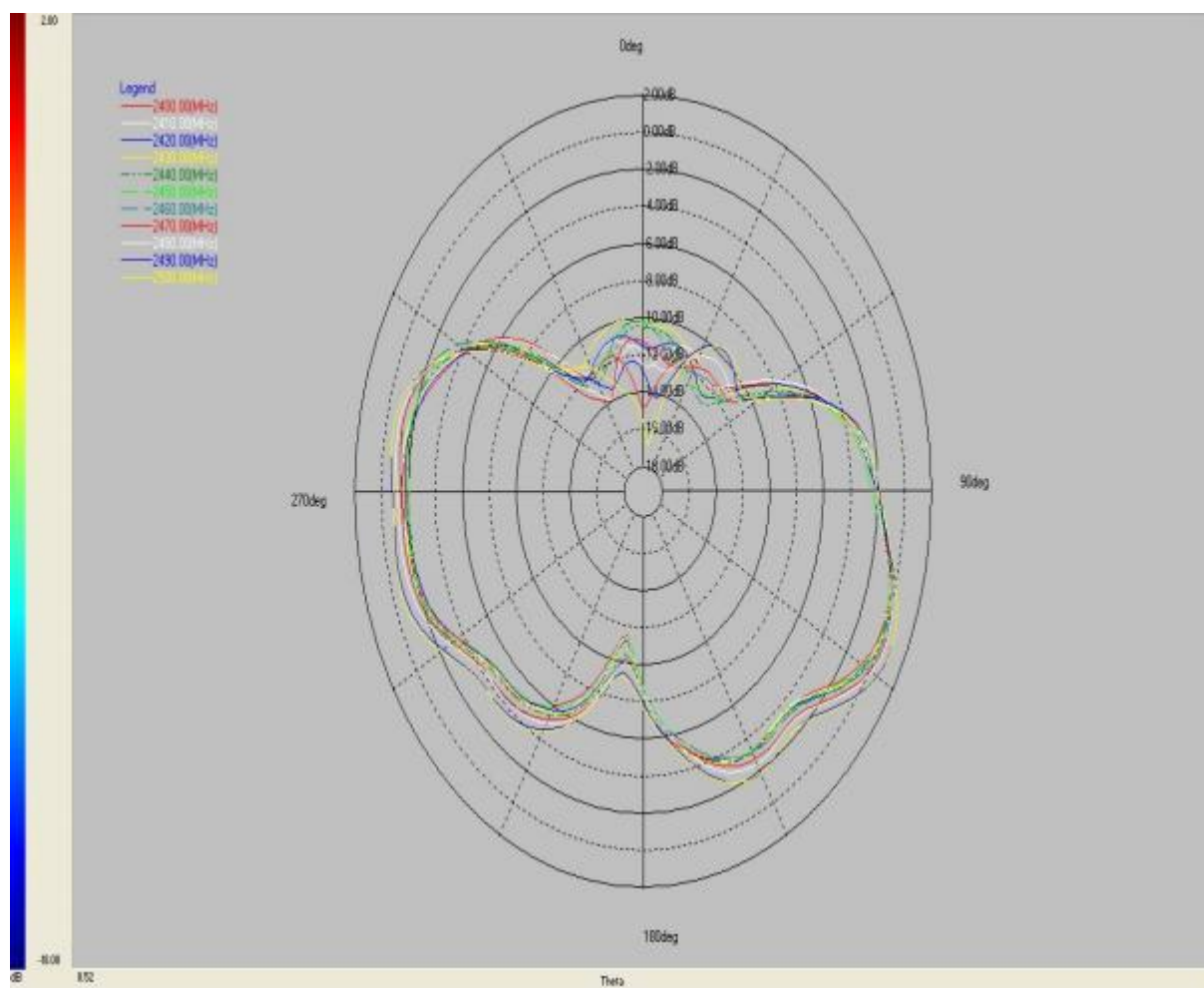
GFSK

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012
2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	1.05232
2500MHz	1.08443

antenna radiation pattern:



PHI 0°



PHI 90°



Standing poppy chart:

