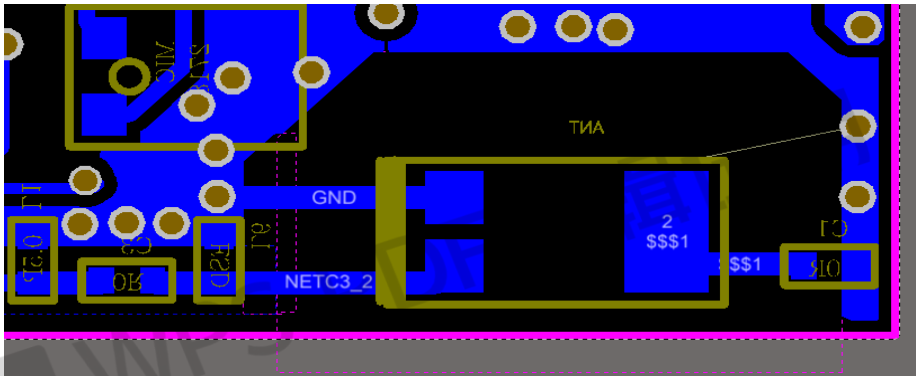


HCG5-1.7.1

一、Antenna Introduction

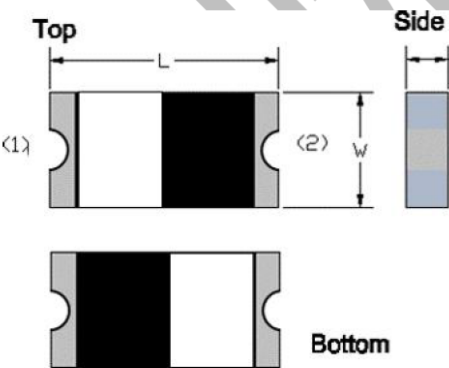
Bluetooth antenna directly using ceramic antenna

二、Antenna Configuration



2.1

Dimension and Terminal Configuration



Dimension (mm)	
L	3.20 ± 0.20
W	1.60 ± 0.20
T	0.45 ± 0.20

No.	Terminal Name
1	Feeding/GNG
2	GND/Feeding

三、Antenna Parameter

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

Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08443dBi
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

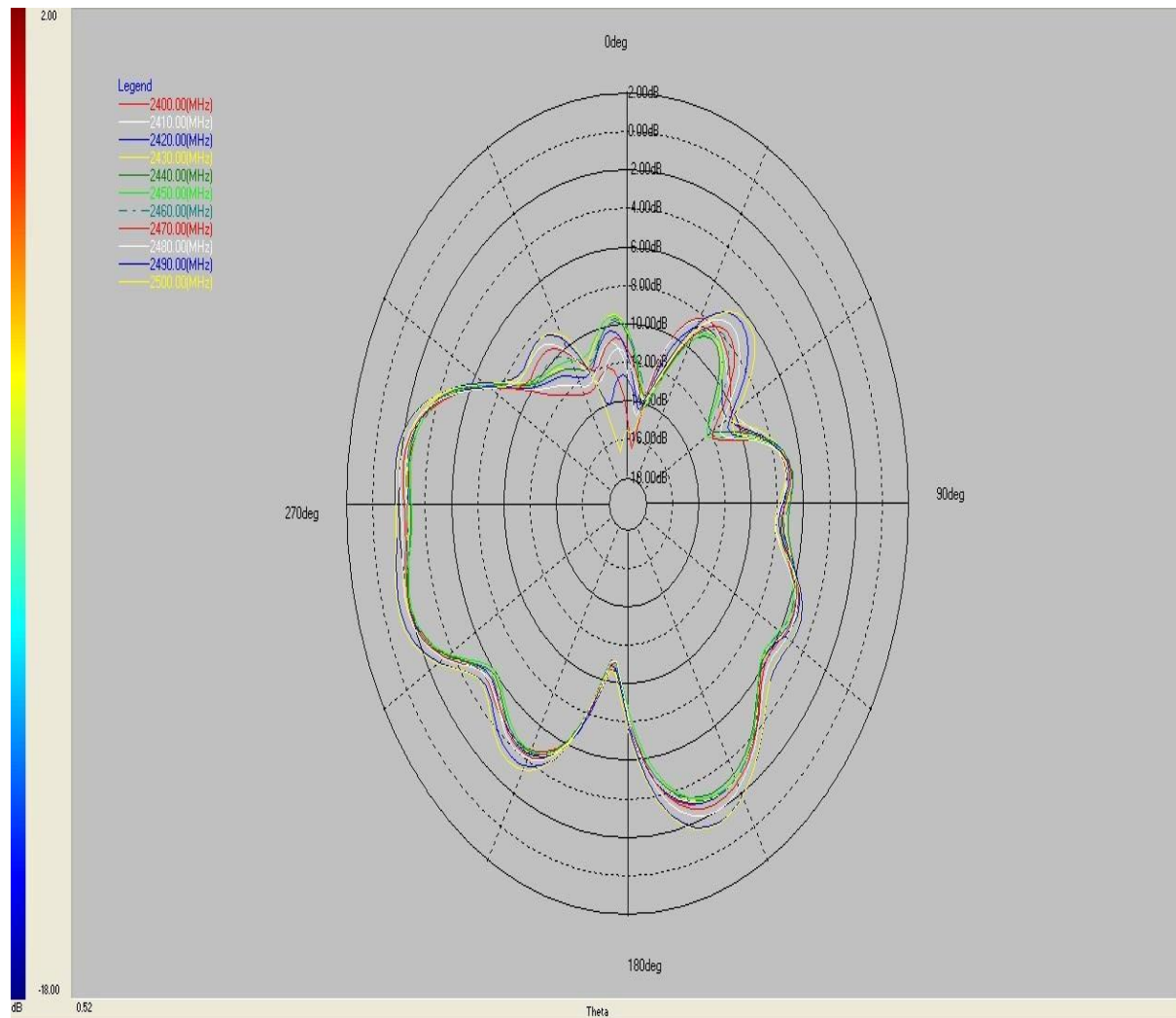
Test Result: PASS

Humidity : 55 %

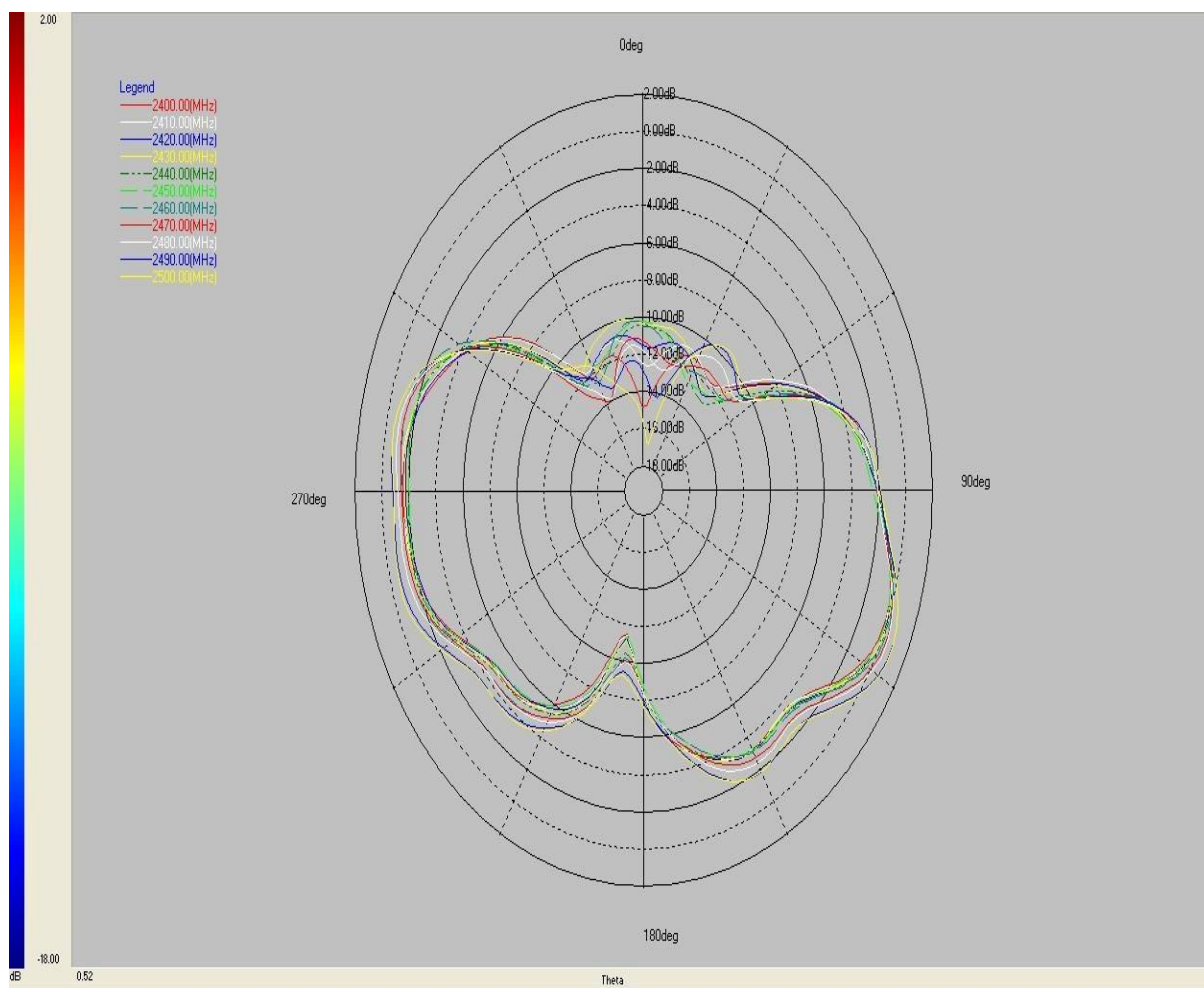
Modulation: GFSK

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

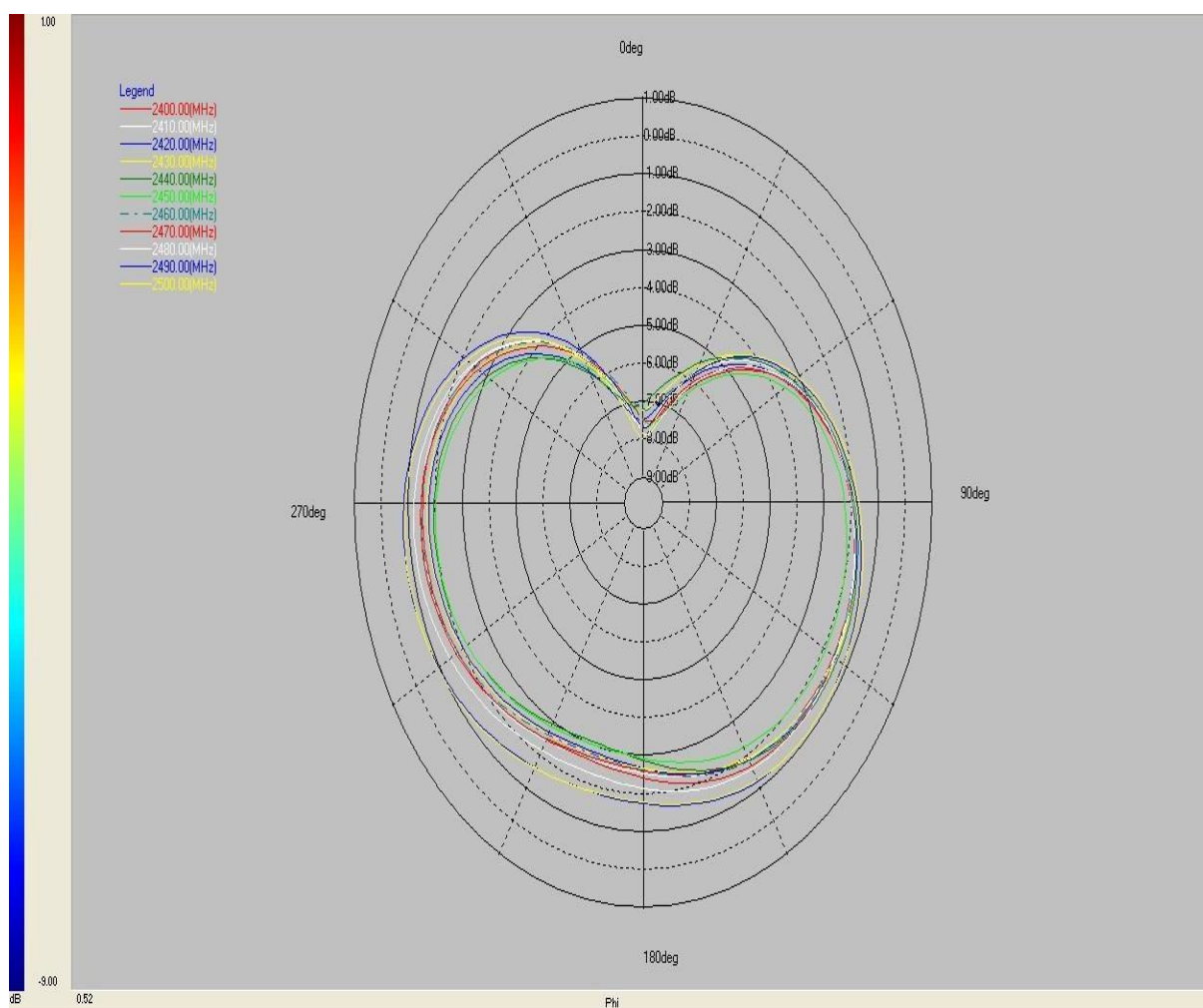
方向图：



PHI 0 度



PHI 90 度



THETA 90 度

驻波比图：



GSOU TECHNOLOGY(SHENZHEN)Co.,LTD.

The EUT is a short range, lower power, Splash designed as a Device. It is designed by way of utilizing the GFSK, 1/4Π-DQPSK and 8DPSK modulation achieves the system operating.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402-2480MHz
- B). Modulation: GFSK, 1/4Π-DQPSK, 8DPSK
- C). Number of Channel: 79
- D). Channel space: 1MHz
- E). BIT Rate of Transmission: 1Mbps, 2Mbps, 3Mbps
- F). Antenna Type: ceramic antenna