
Antenna specification

1、Antenna introduction

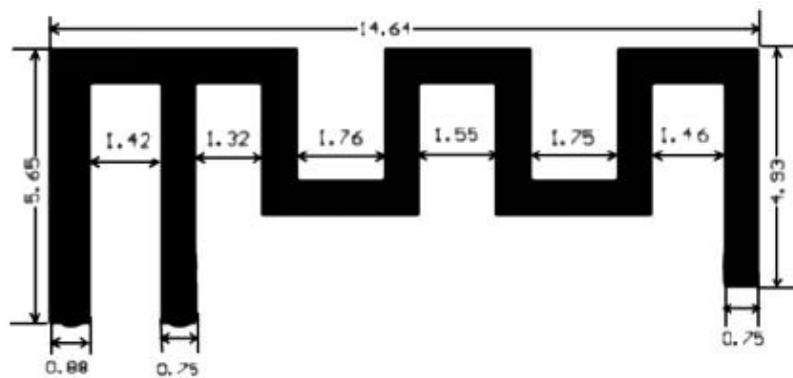
The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Lenze Design Inc

Address : 7th Floor,Ching Po Building,Shenzhen Special Zone Press Group,Futian District,Shenzhen

2、Antenna shape

Unit: mm



3、Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	-3.00 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、 Antenna gain report

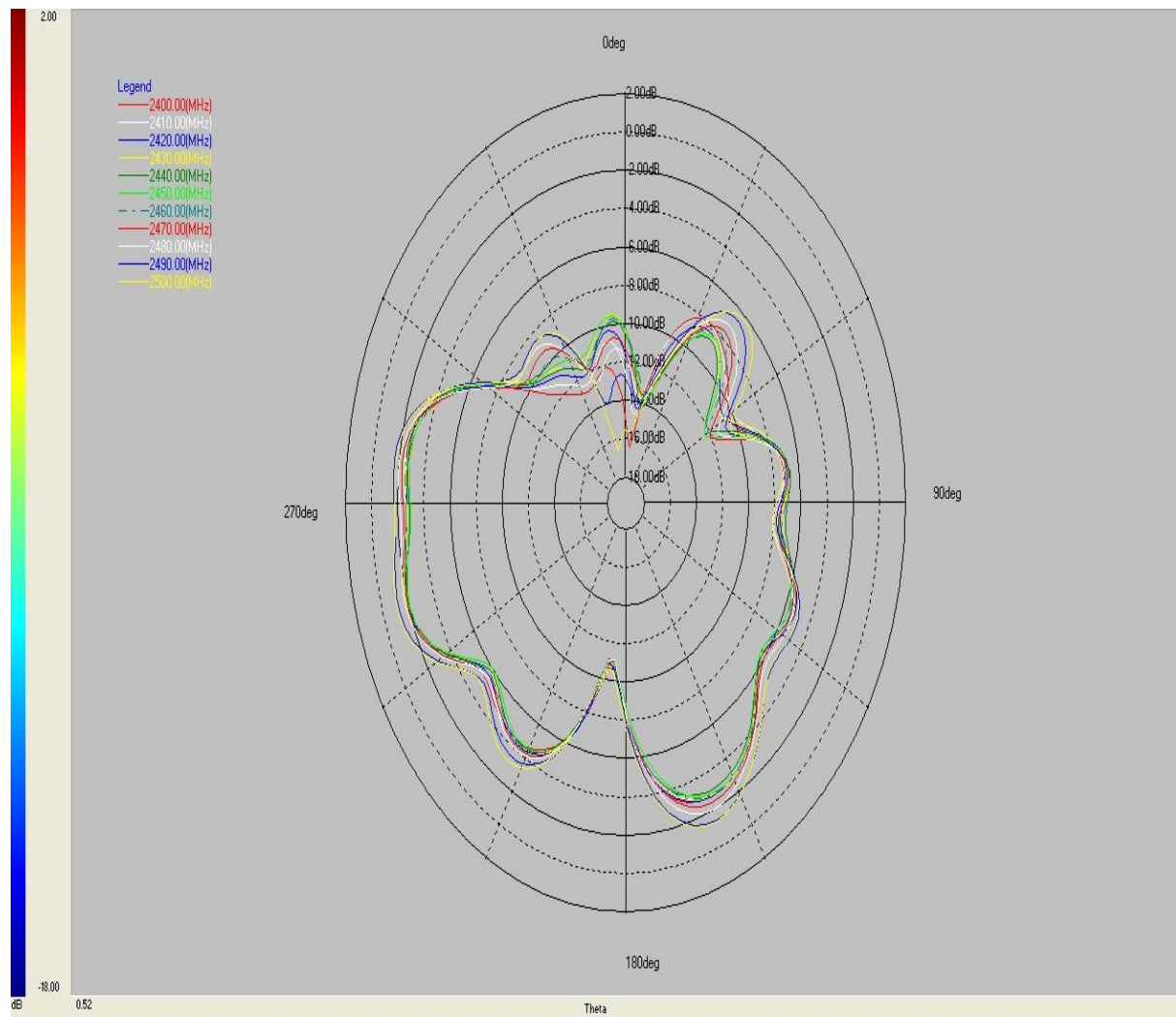
Spectrum Detector:
Test By:
Test Result:
Modulation:

PK
Mark
PASS
GFSK

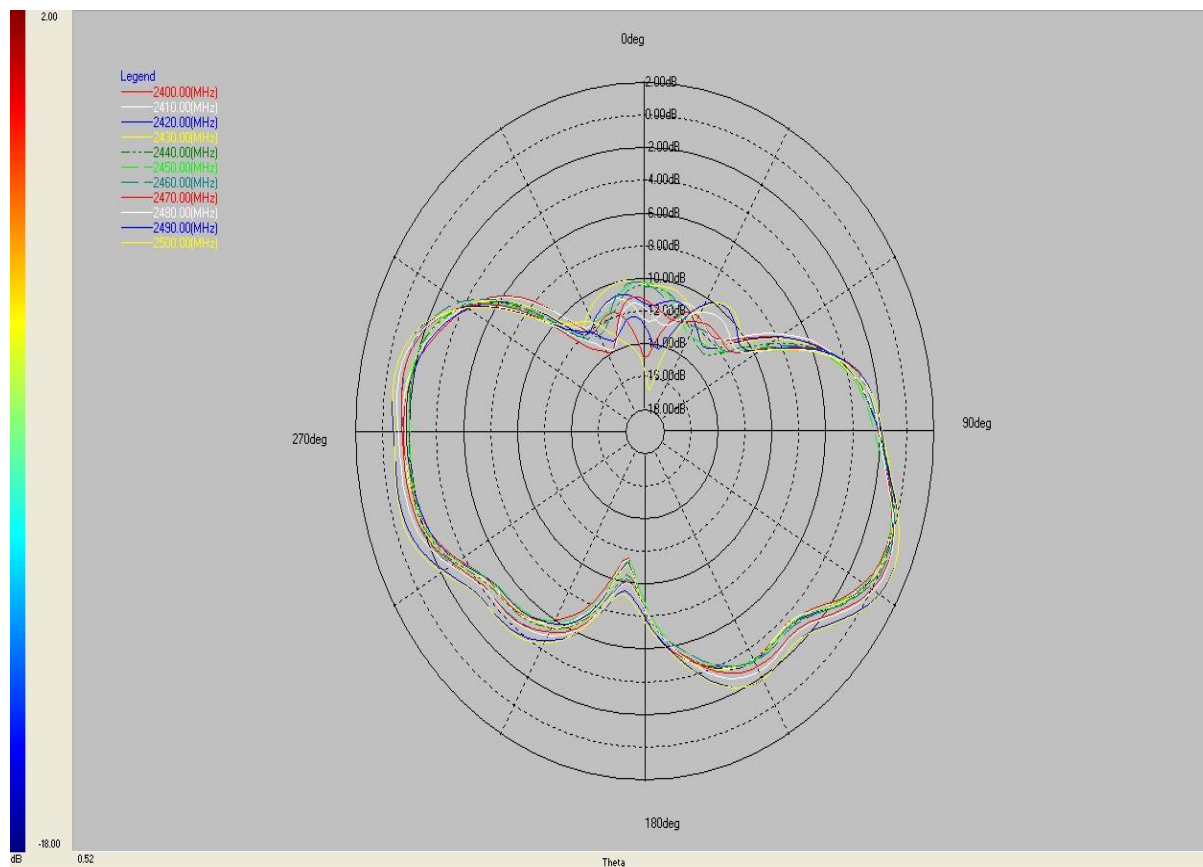
Test Date : Feb 18, 2022
Temperature : 25°C
Humidity : 52 %

Frequency VNA (MHz)	E Total. dB(dBi)
2400MHz	-2.0403503
2410MHz	-2.0886264
2420MHz	-2.267381
2430MHz	-2.193012
2440MHz	-2.26366
2450MHz	-3.0023139
2460MHz	-2.36895
2470MHz	-2.551525
2480MHz	-2.640702
2490MHz	-1.05232
2500MHz	-1.08443

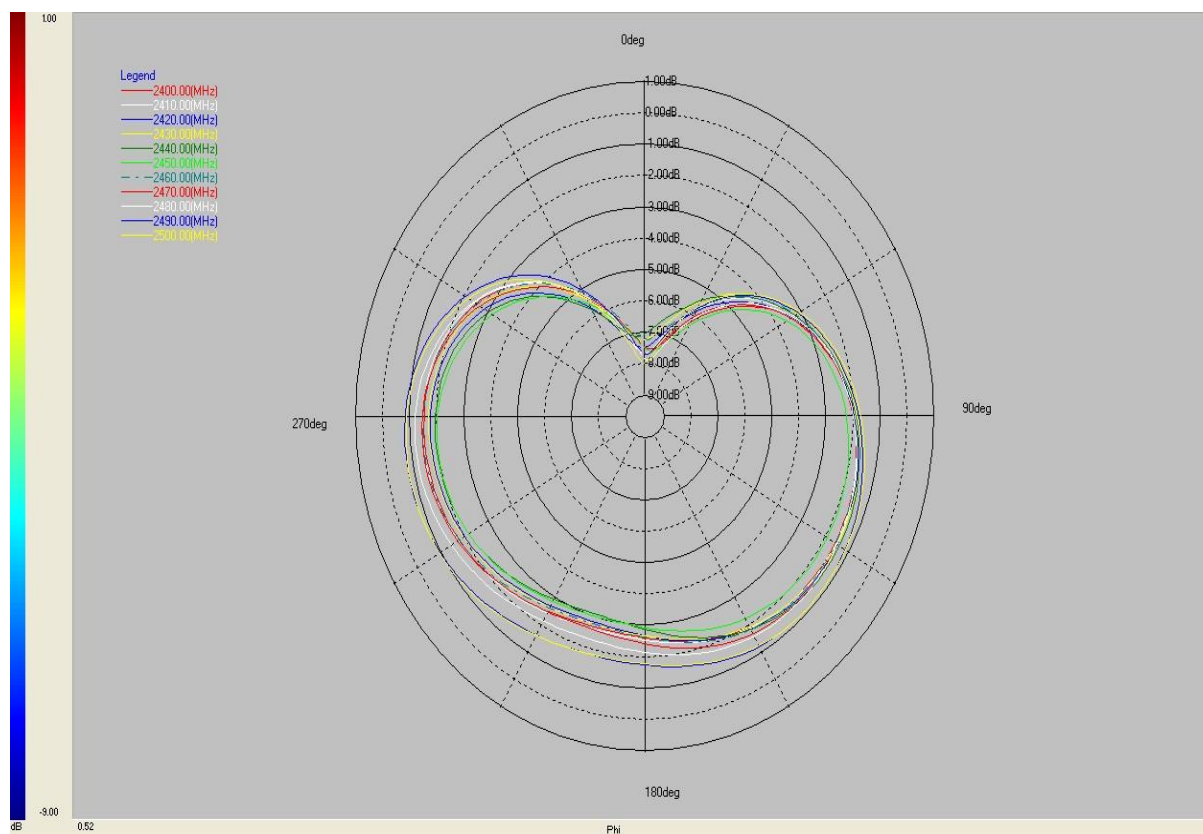
Direction map:



PHI 0°



$\Phi = 90^\circ$



$\Theta = 90^\circ$