
Antenna specification

1、Antenna introduction

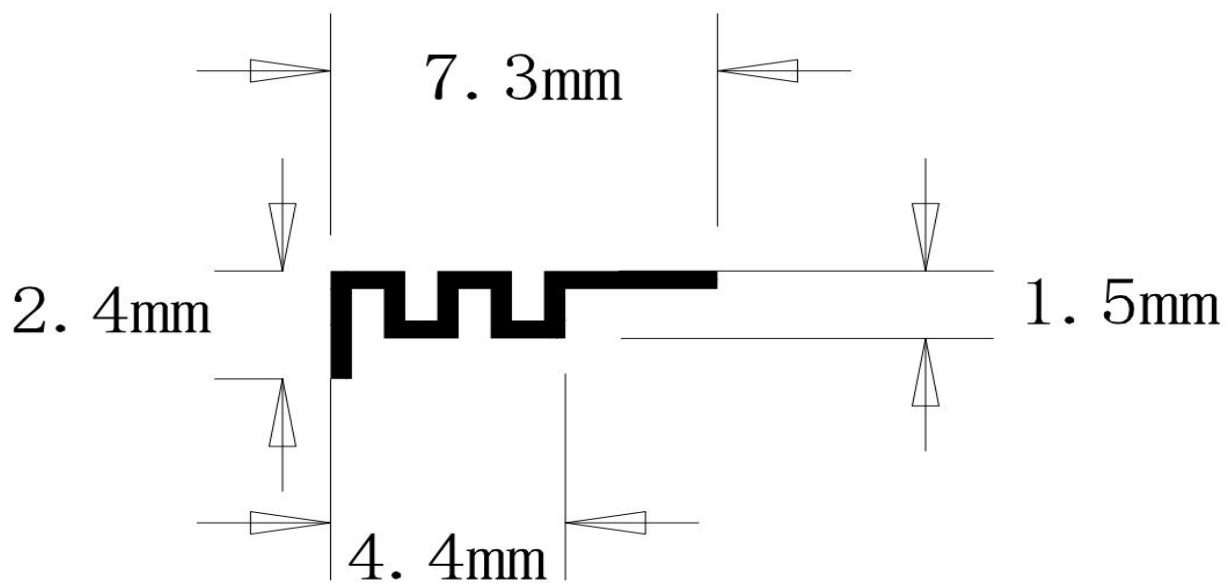
The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Shenzhen Yishe Technology Co., Ltd.

Address: Room 601, Building A, Xitou Dongyuan, Longsheng Road, Longhua District, Shenzhen City, Guangdong Province, China

Model/Type reference: J6

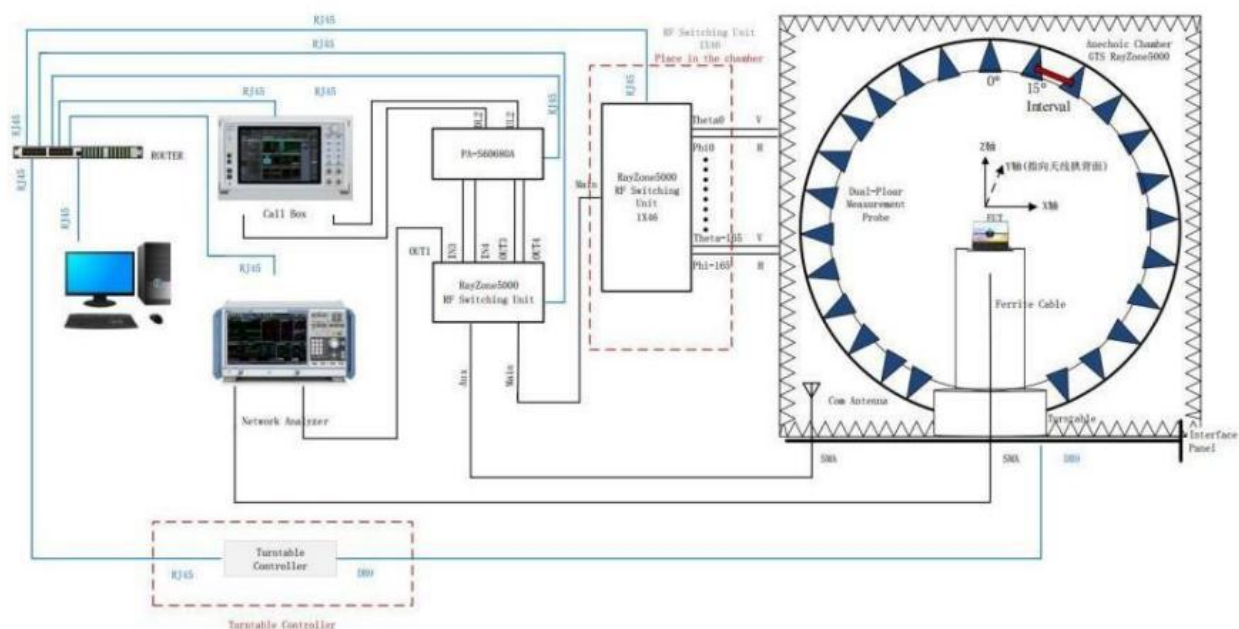
2、Antenna shape

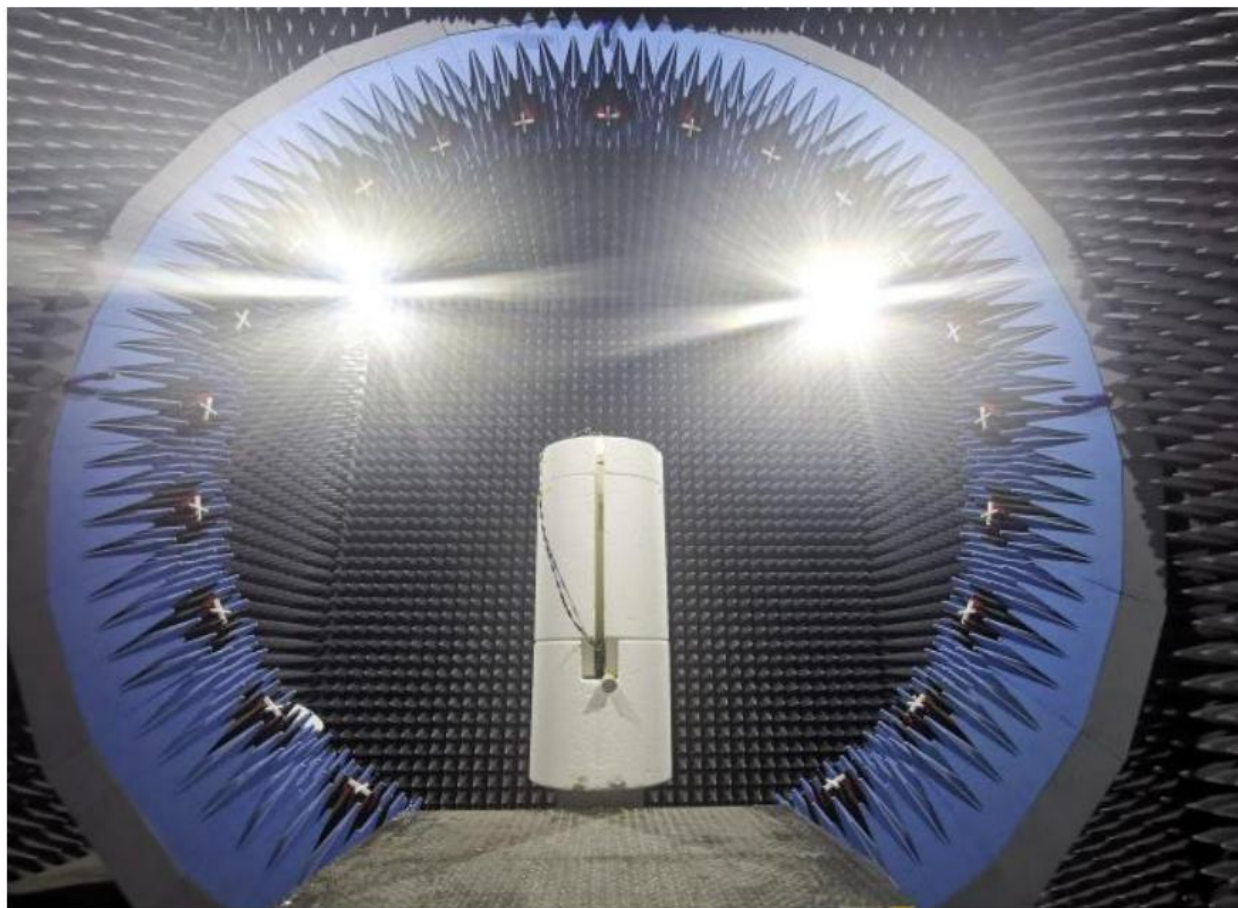


Test equipment list

name	Manufacturer	Model
Network analyzer	KEYSIGHT	E5071C
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Comprehensive Measuring Instrument	R&S	CWM500
OTA test system	GTS	RayZone-5000

Test setup





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)	0.64dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

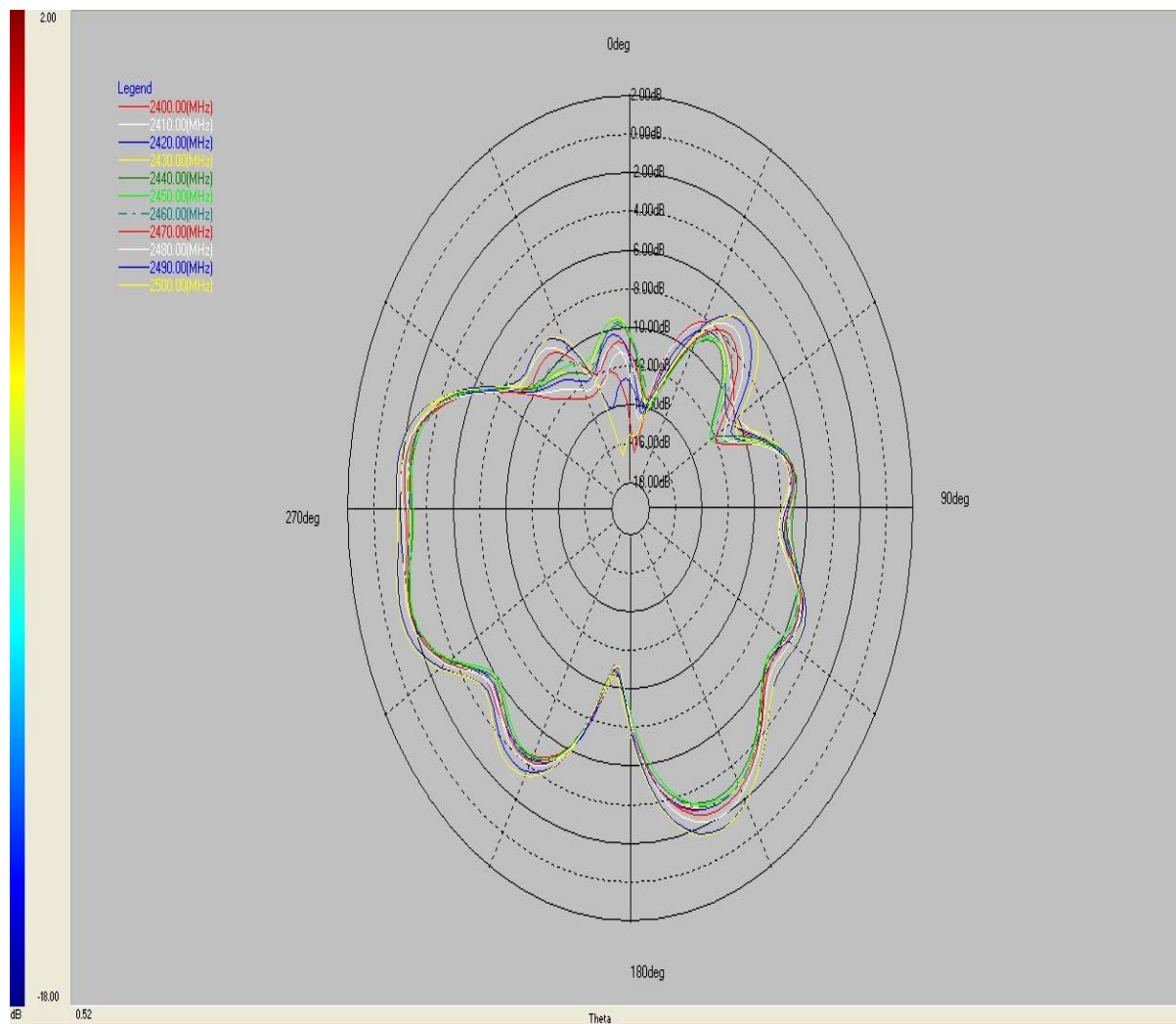
4、Antenna gain report

Spectrum Detector:	PK	Test Date :	Feb 18, 2022
Test By:	Mark	Temperature :	25℃
Test Result:	PASS	Humidity :	52 %
Modulation:	GFSK		

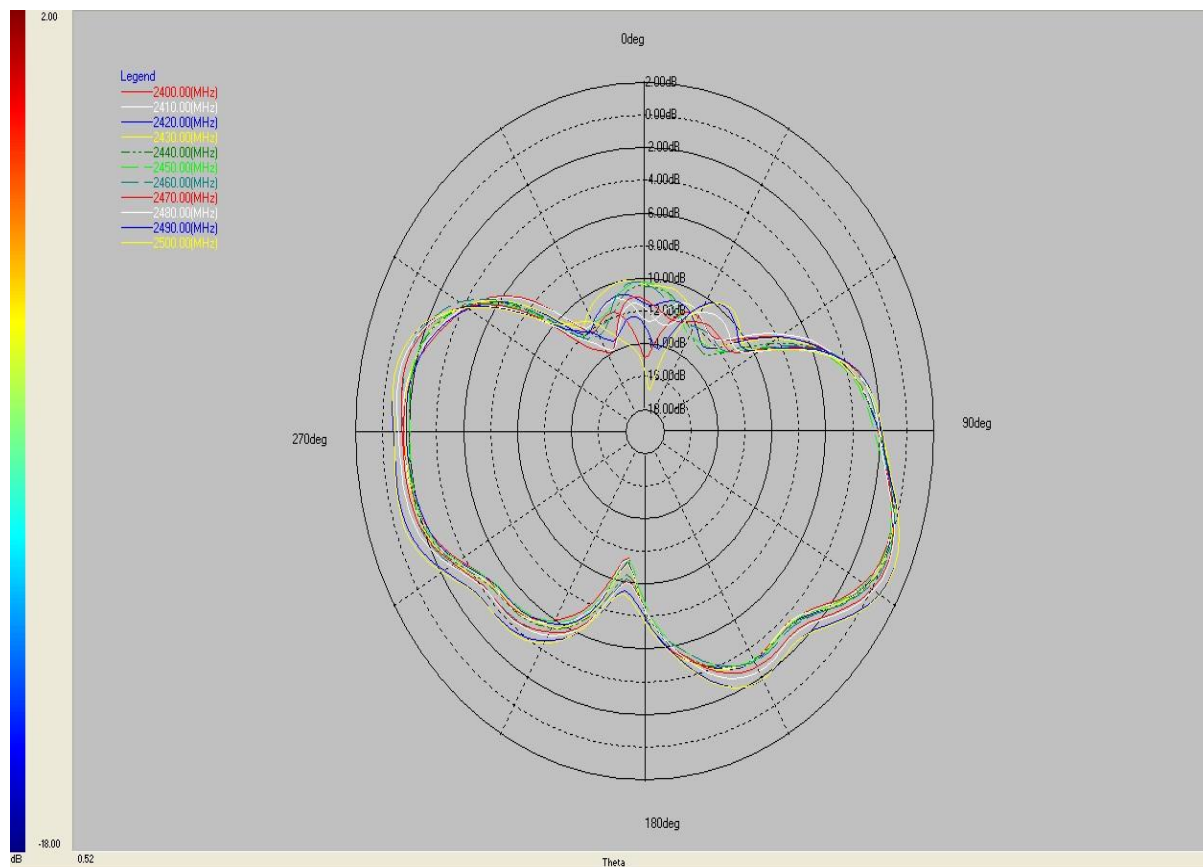
Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012

2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	0.05232
2500MHz	0.08443

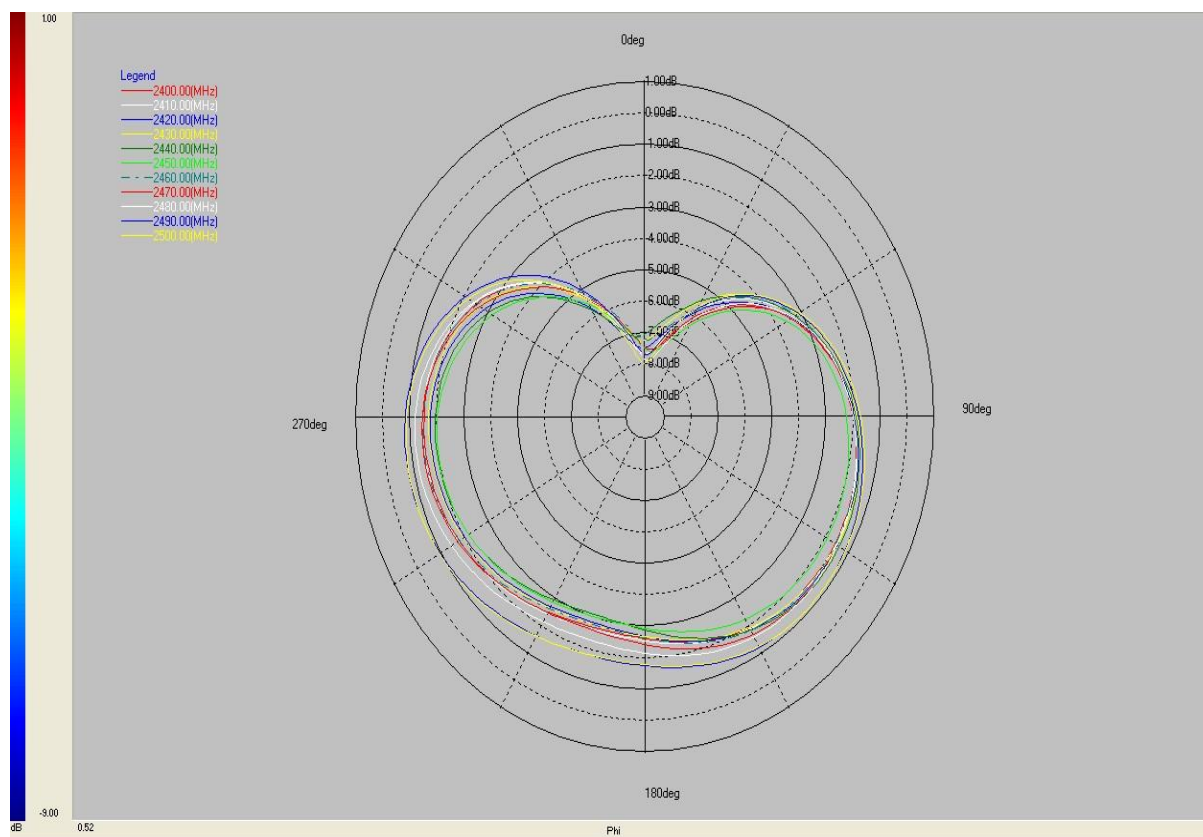
Direction map:



$\text{PHI } 0^\circ$



PHI 90°



THETA 90°