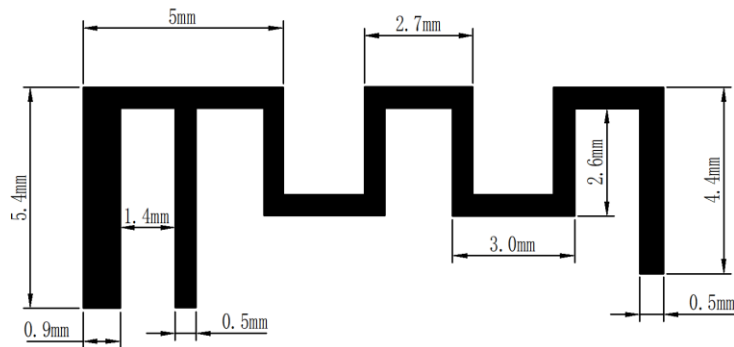


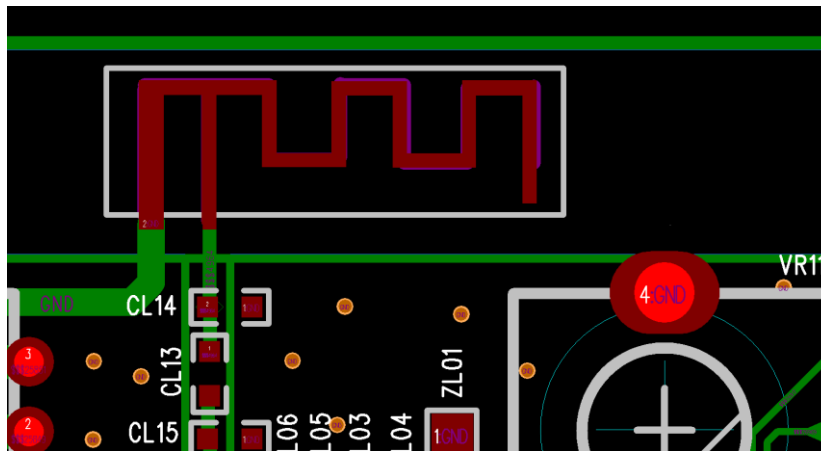
Antenna Specification

Dimension

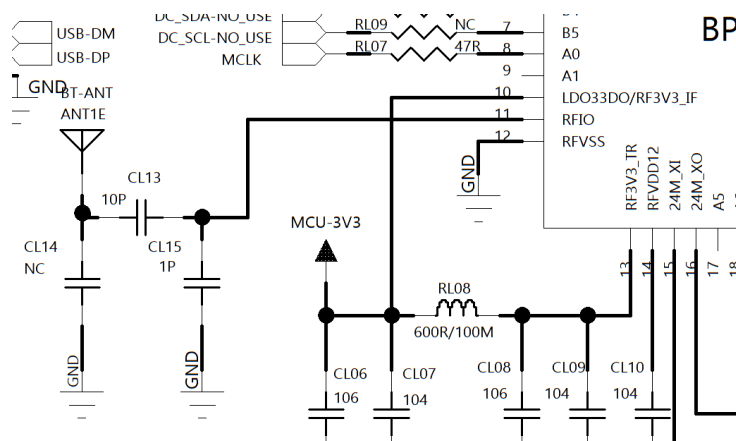


Note :

1. The pins with a width of 0.9mm for the BT antenna are connected to GND.
2. The wire diameter of the BT antenna is 0.5mm, as shown in the following diagram:
3. Bluetooth antenna copper plating gap 2.3mm as shown in the figure:



4. The attached file is the antenna matching reference circuit network. The matching components should be placed as close as possible to the chip pin positions.



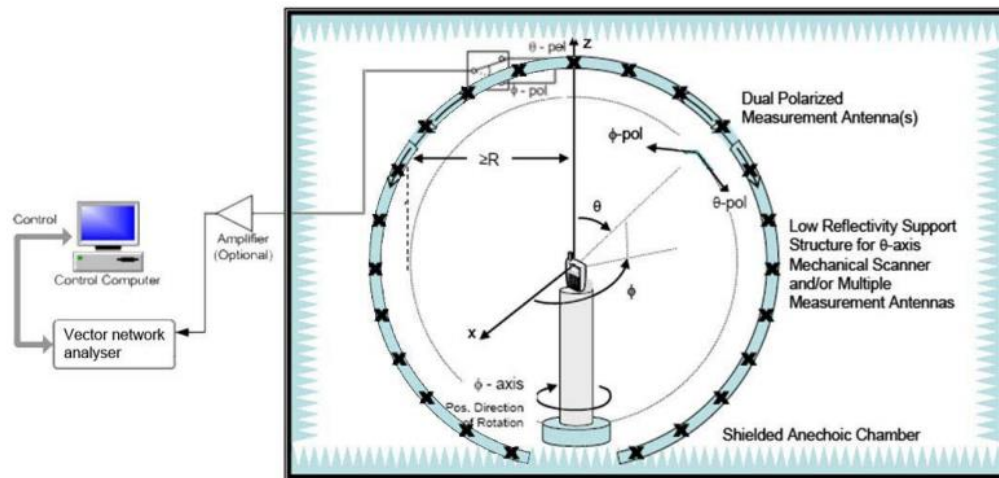
Gain

Frequency	Gain(dBi)
2400MHz	2.81
2410MHz	2.74
2420MHz	3.38
2430MHz	2.73
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

Return Loss/VSWR/Input Impedance

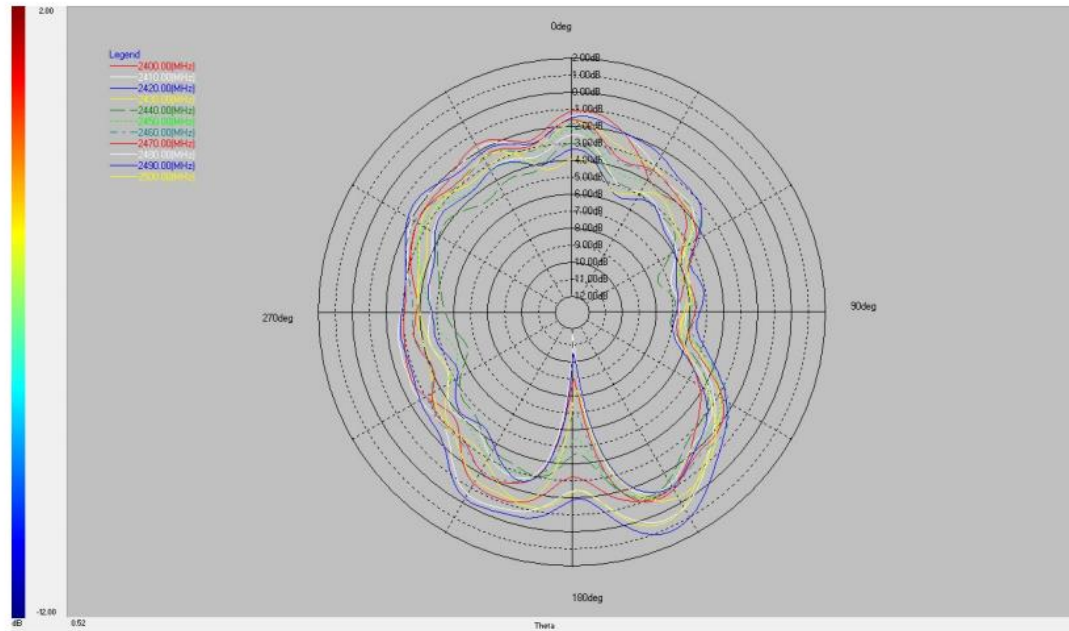
Frequency	Return Loss (dB)	VSWR	Input Impedance(Ω)
2400MHz	-7.23	2.53	25.37
2440MHz	-6.47	2.80	17.99
2450MHz	-6.22	2.90	17.18
2480MHz	-5.18	3.44	15.55
2500MHz	-4.56	3.89	15.48

Test Setup

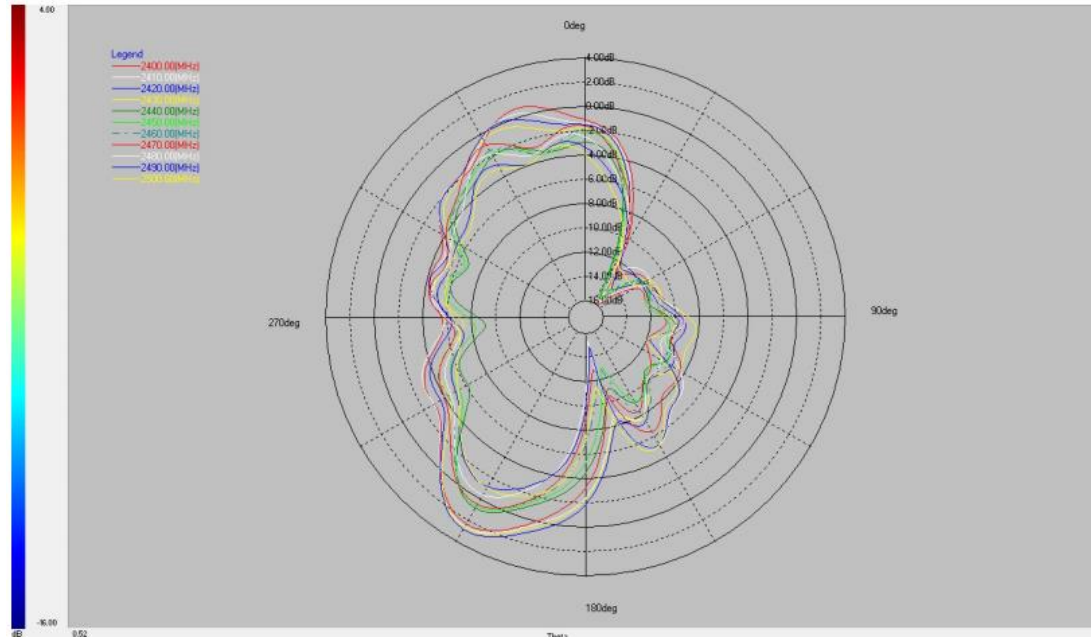


2D Radiation Pattern

Phi=0°



Phi=90



Theta=90

