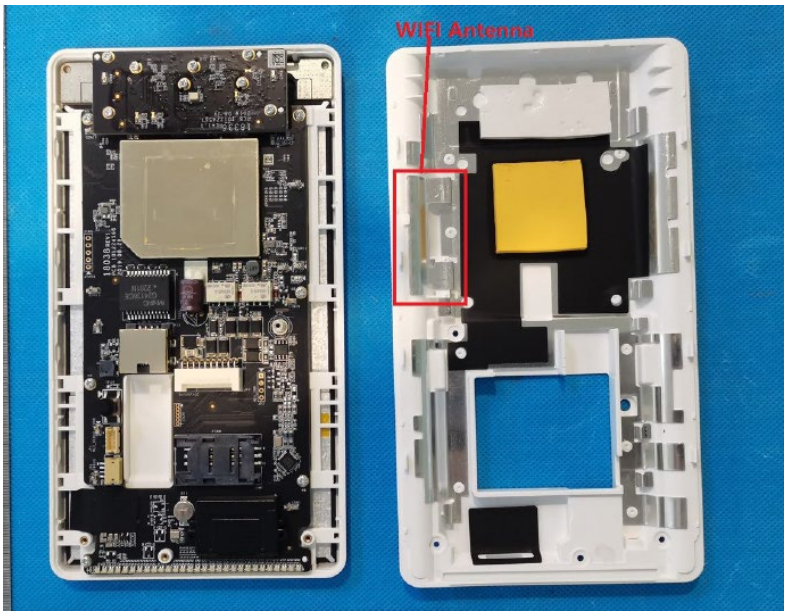
Antenna Specification

1. Antenna Photo



2. Antenna Technical Parameters and Interface

Design Specifications	Typical	Units
Form	Integral Antenna	\
Frequency	2400-2500	MHz
Gain	High channel：-1.7	dBi
	Medium channel：-2.93	dBi
	Low channel：-3.93	dBi
Antenna Efficiency	*13.64*	%
VSWR	< 10	\
Polarization	Linear Polarization	\
Axial Ratio	\	\
Radiation pattern	Omnibearing	\
impedance	50	ohm
Power handling	33	dBm
Interface	\	\
Overall dimensions	23mm*11mm	\
Weight	\	\
Operation Temp.	-30-70	℃
Storing Temp.	-30-70	℃

3. Antenna Test Conditions

3.1 Test Equipment

Antenna Vector Network Analyzer ROHDE&SCHWARZ ZNB 20

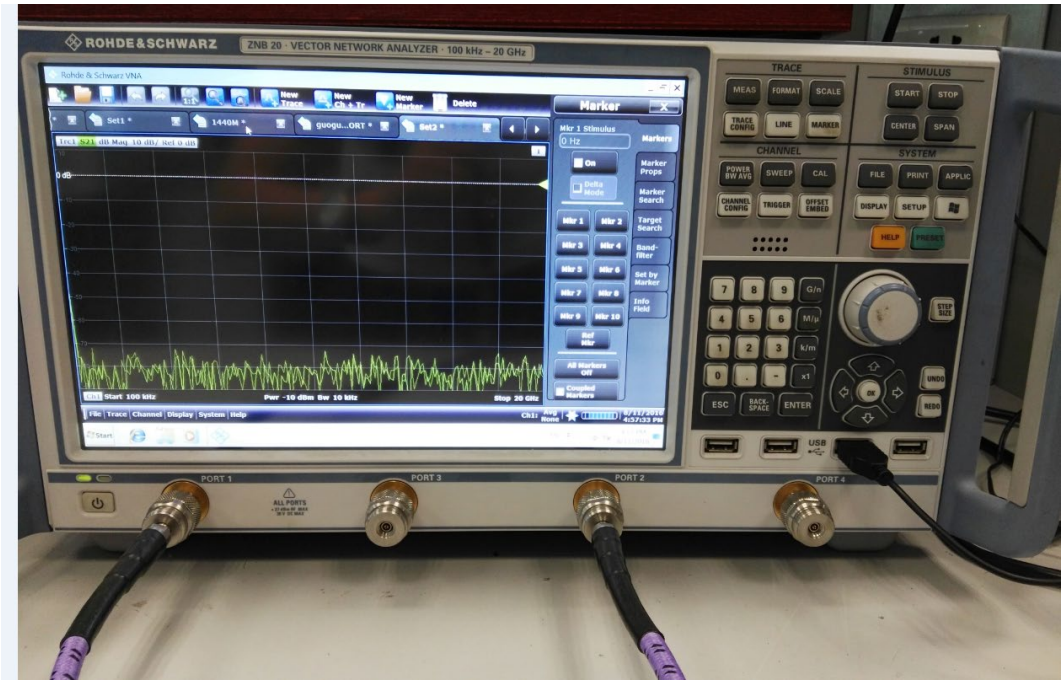


Figure 2.Vector Network Analyzer

3.2 Test Result

Return Loss (S11)

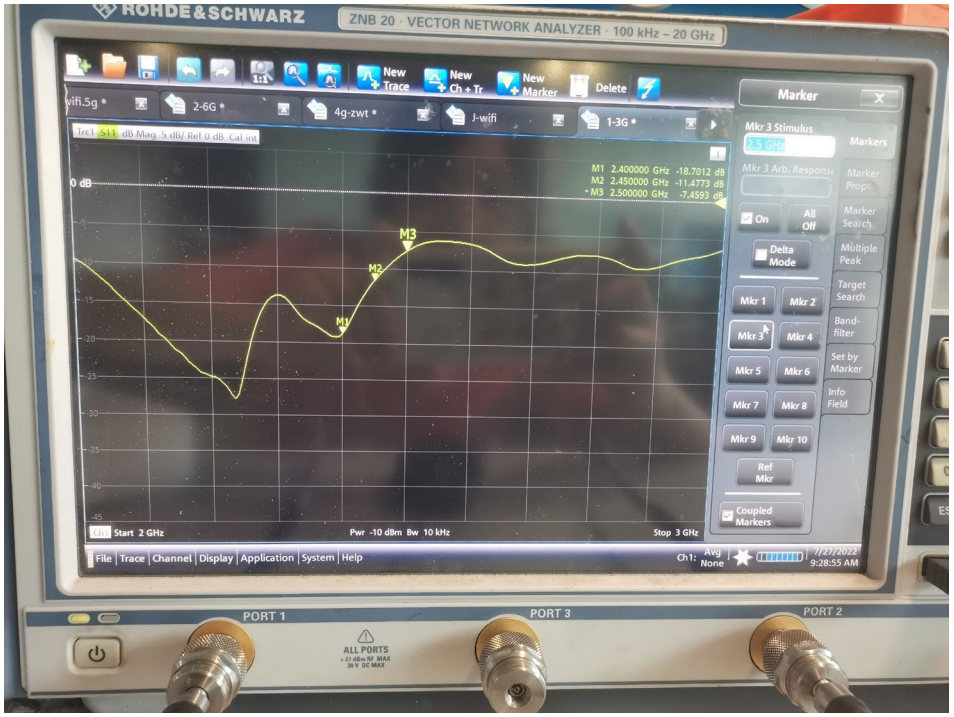


Figure 4.Return Loss

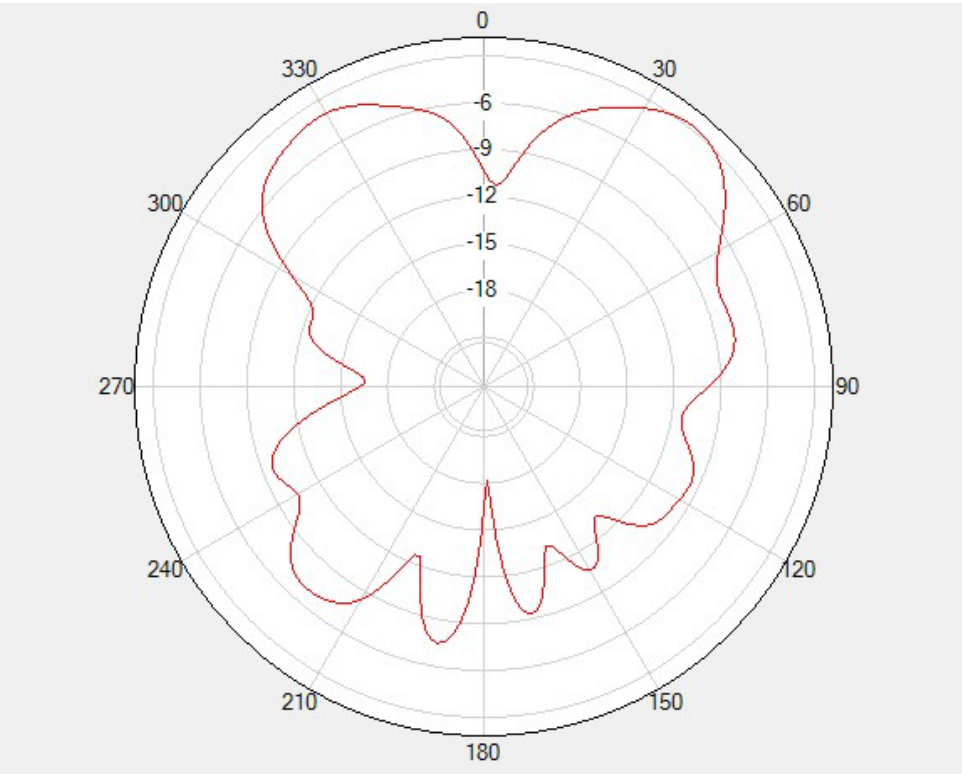
The yellow curve in the figure above shows that the antenna syntony is realized well, and the resistance condition matches well.

Antenna Efficiency

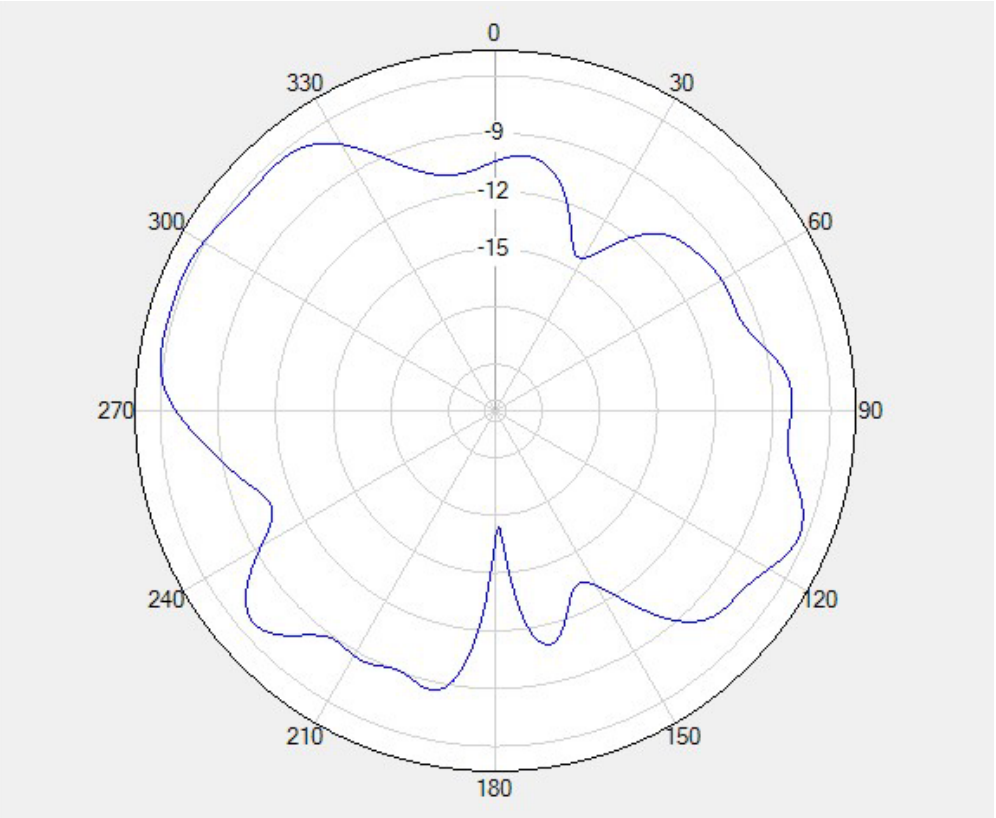
Frequency /MHz	Efficiency /%
2400	16.10
2410	16.19
2420	16.10
2430	15.68
2440	15.05
2450	13.81
2460	12.78
2470	11.99
2480	11.27
2490	10.55
2500	10.50

Antenna 2D Radiation Pattern

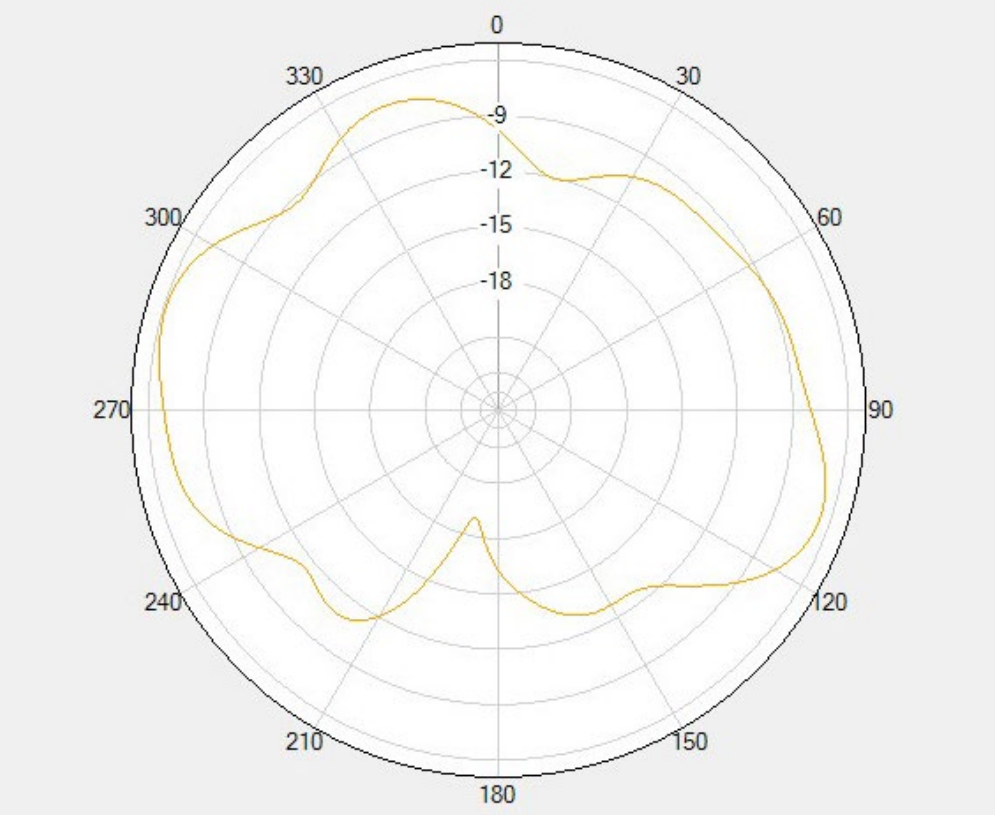
2400MHz:



Phi=0 deg

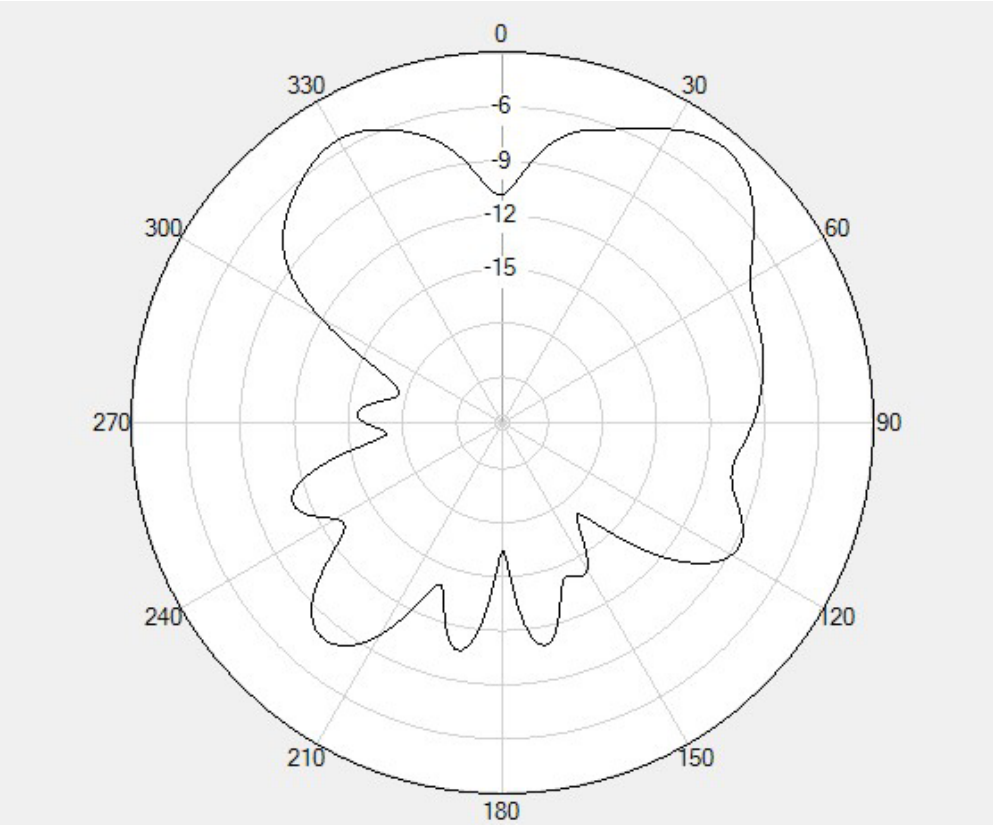


Phi=90 deg

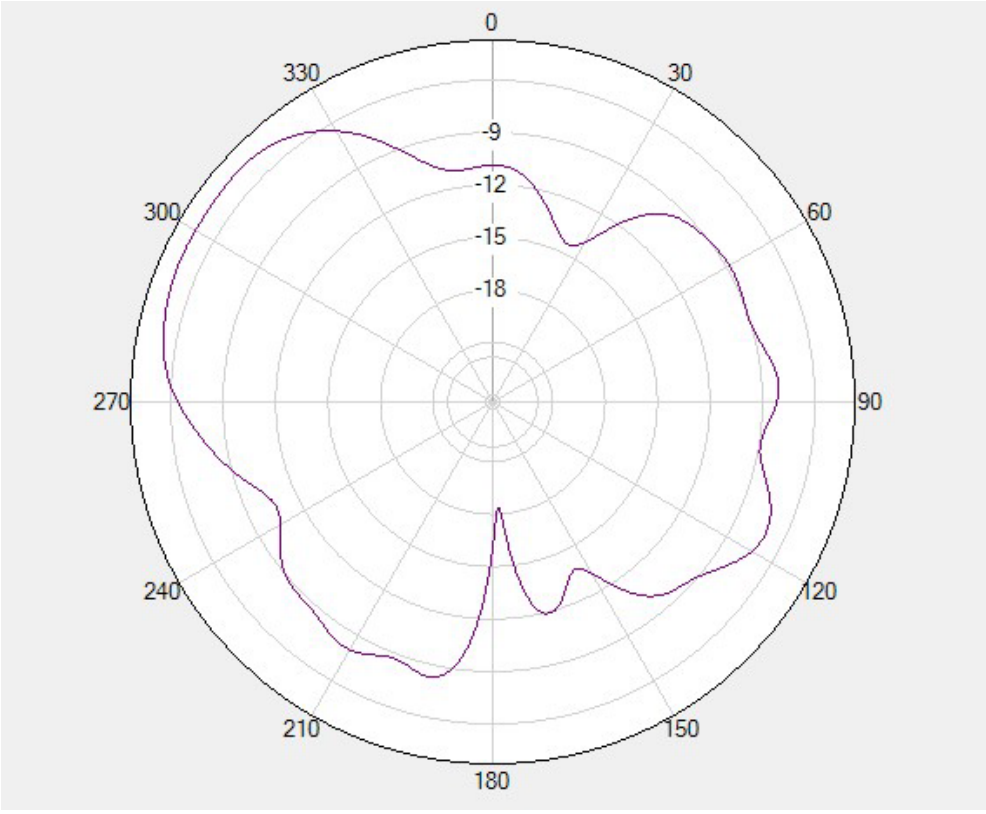


Theta=90 deg

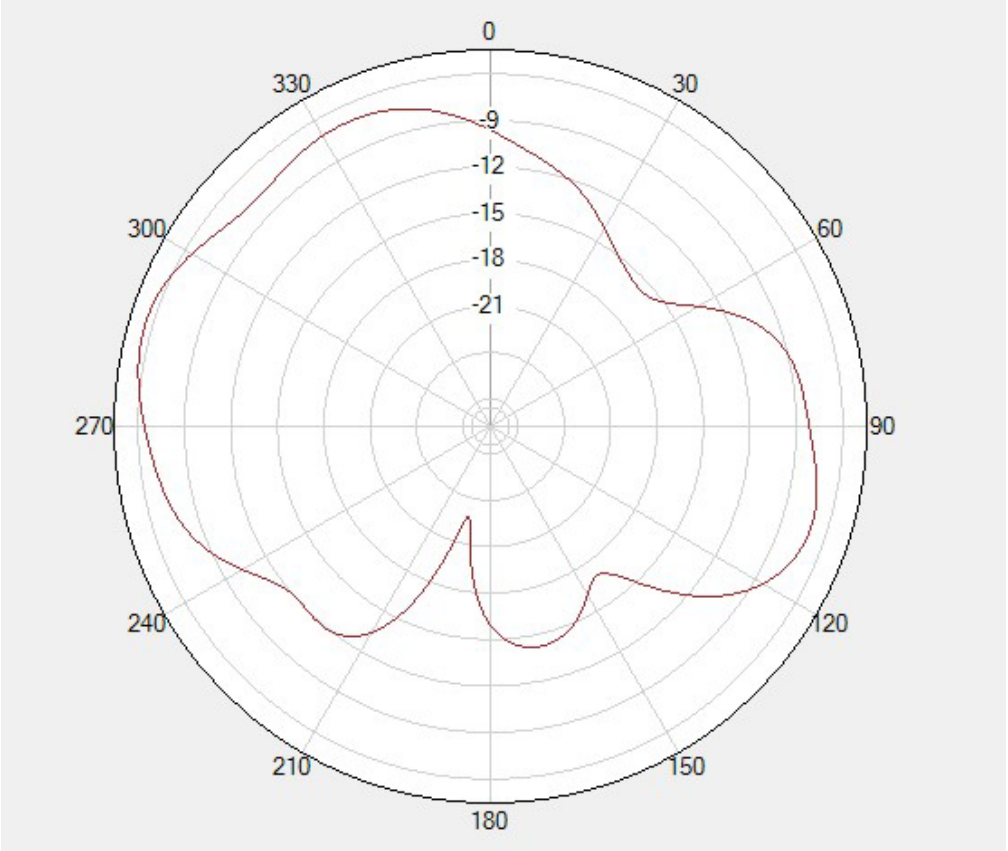
2450MHz:



Phi=0 deg

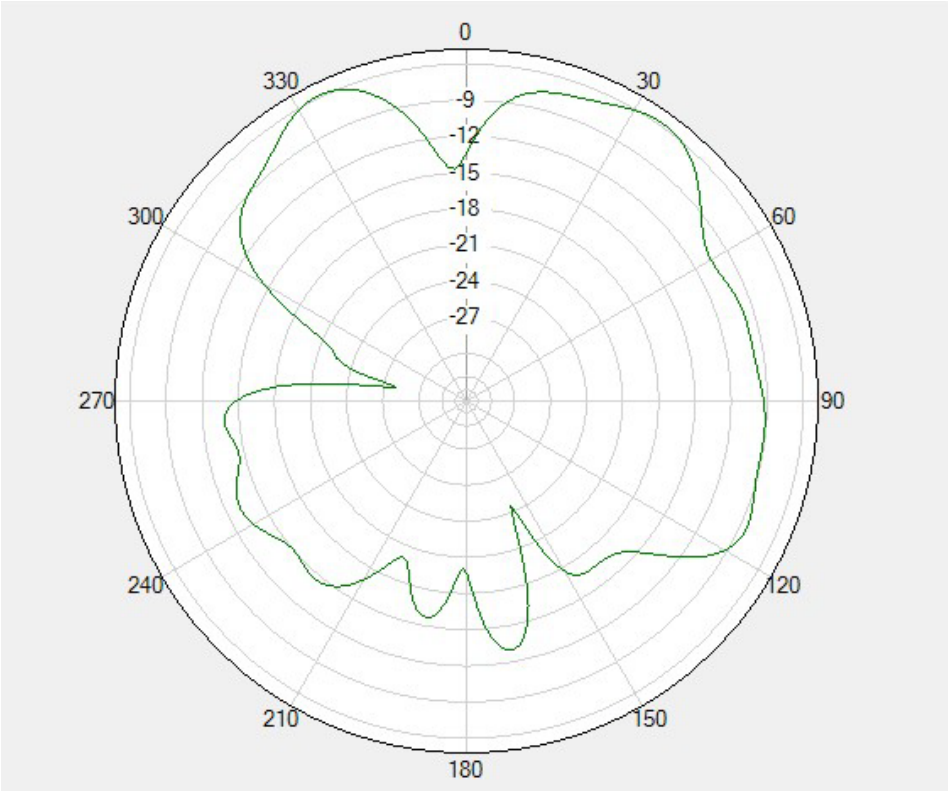


Phi=90 deg

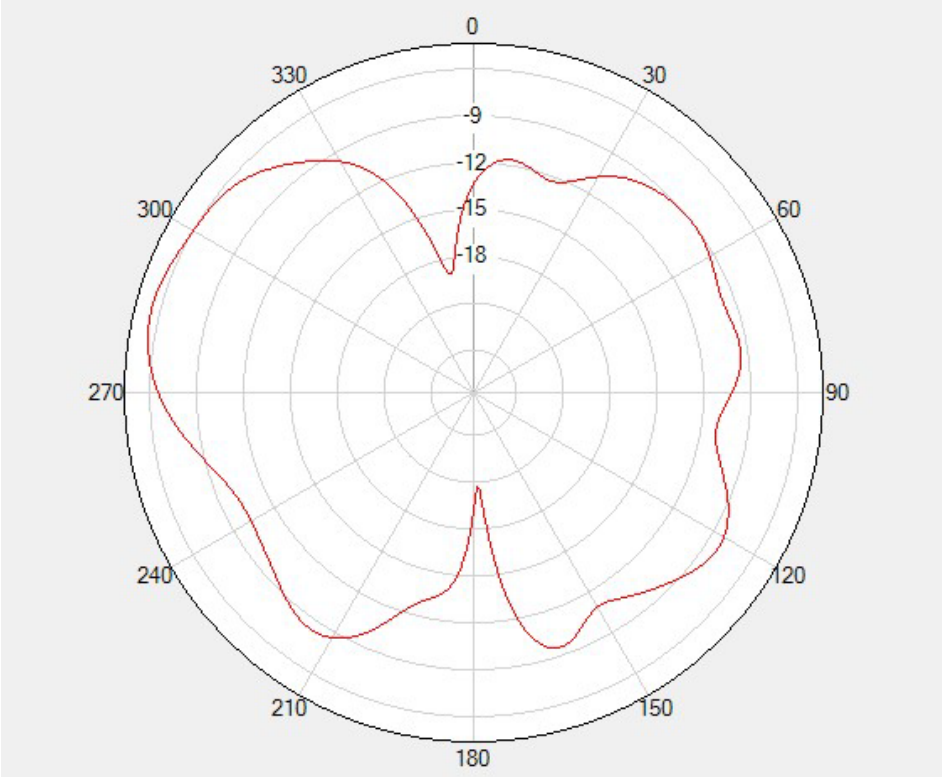


Theta=90 deg

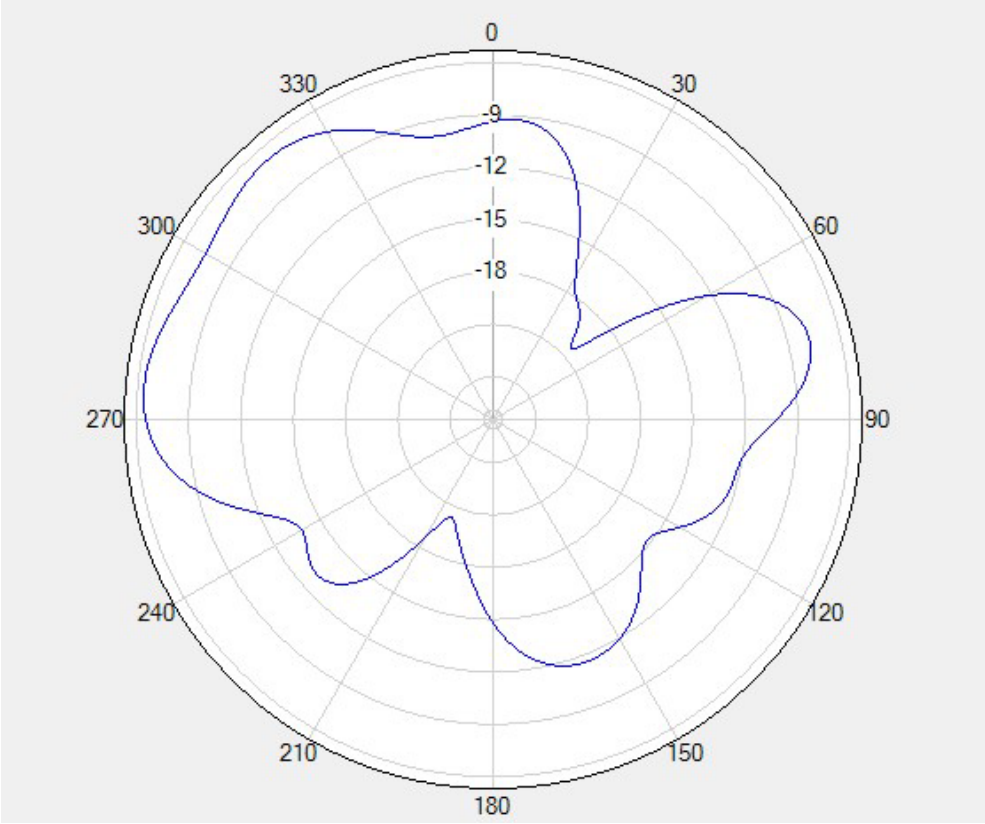
2500MHz:



Phi=0 deg



Phi=90 deg



Theta=90 deg