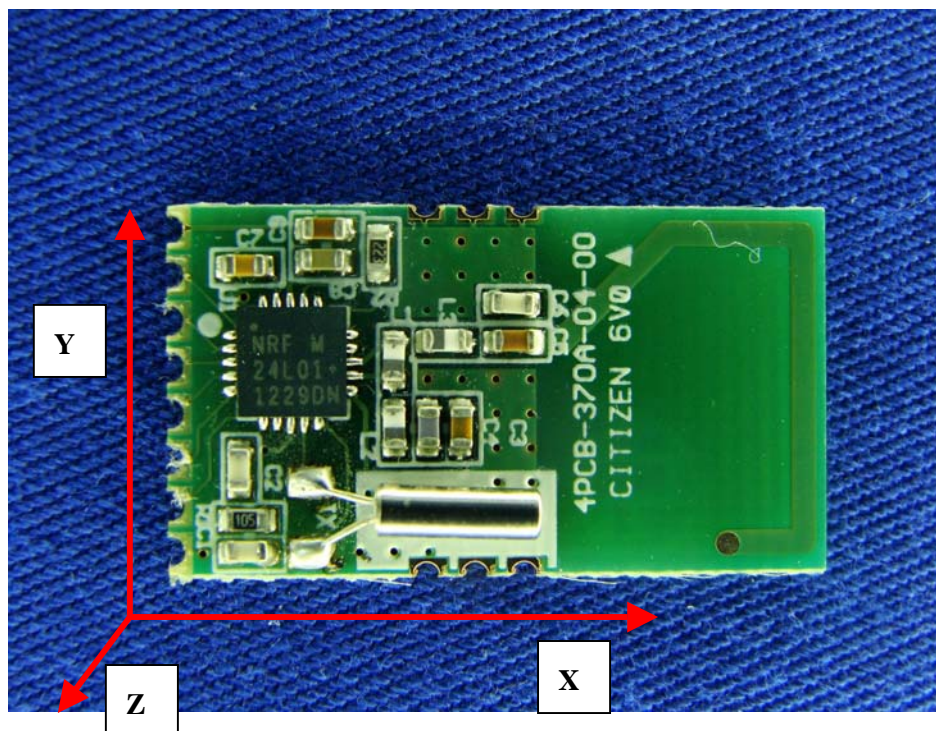


Antenna Test Report

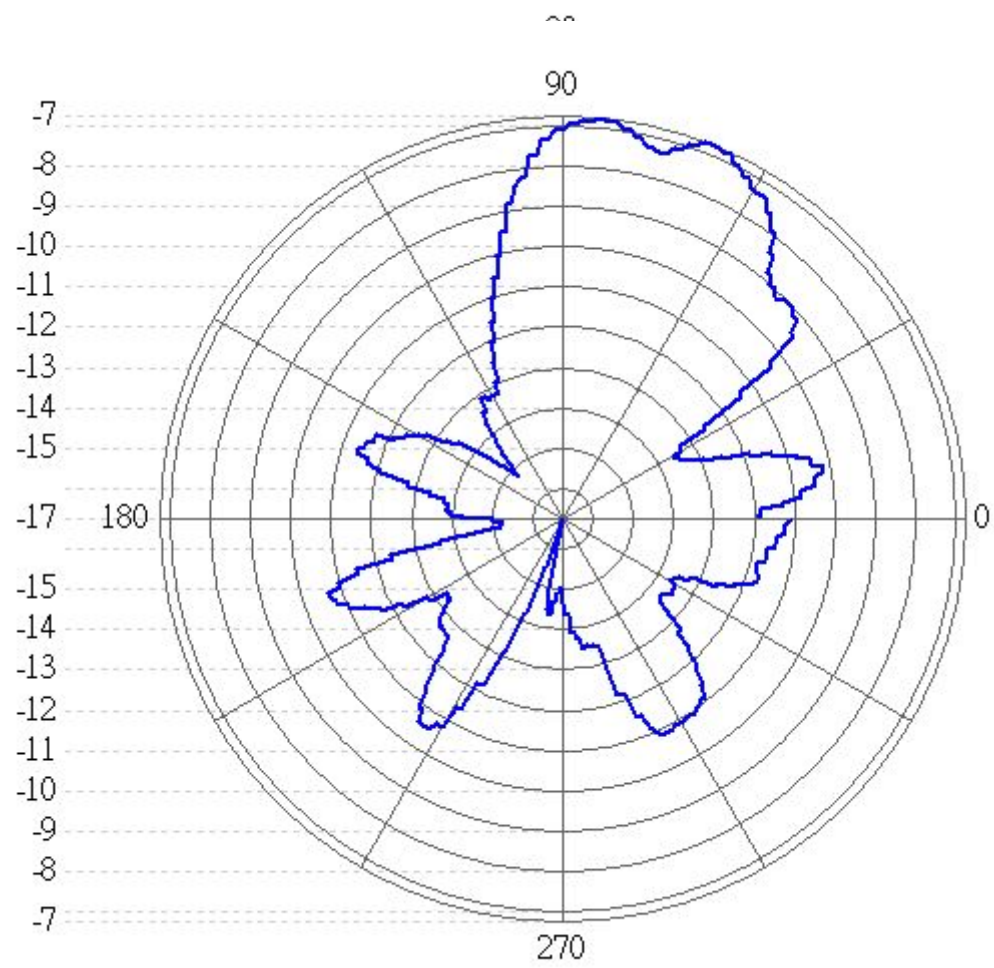
Information:

Platform Model Name	D319-NRM001
Platform Manufacturer	NUMA Electronics Inc.
Antenna Type	Printed on PCB
Frequency Range	2400~2500MHz
Antenna Gain	-2.7dBi
Measurement Date	2012 / 11 / 23

Antenna Photo:

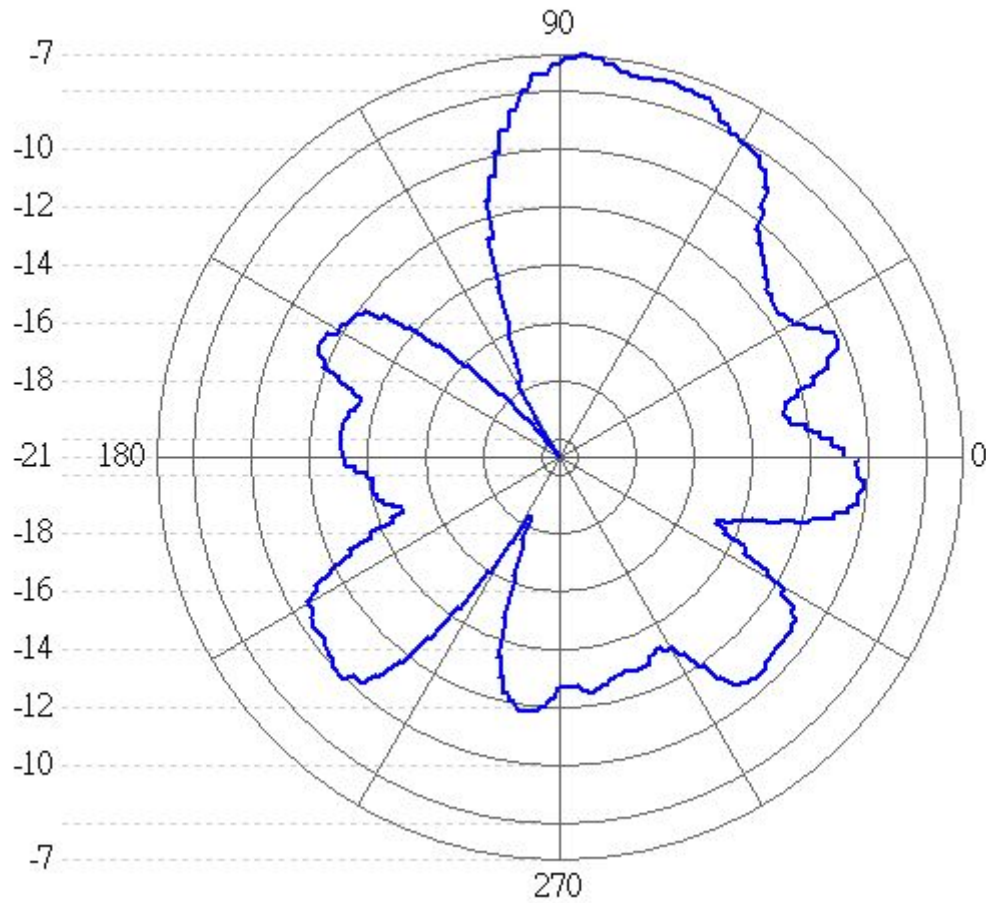


X-Y Plane Radiation Pattern

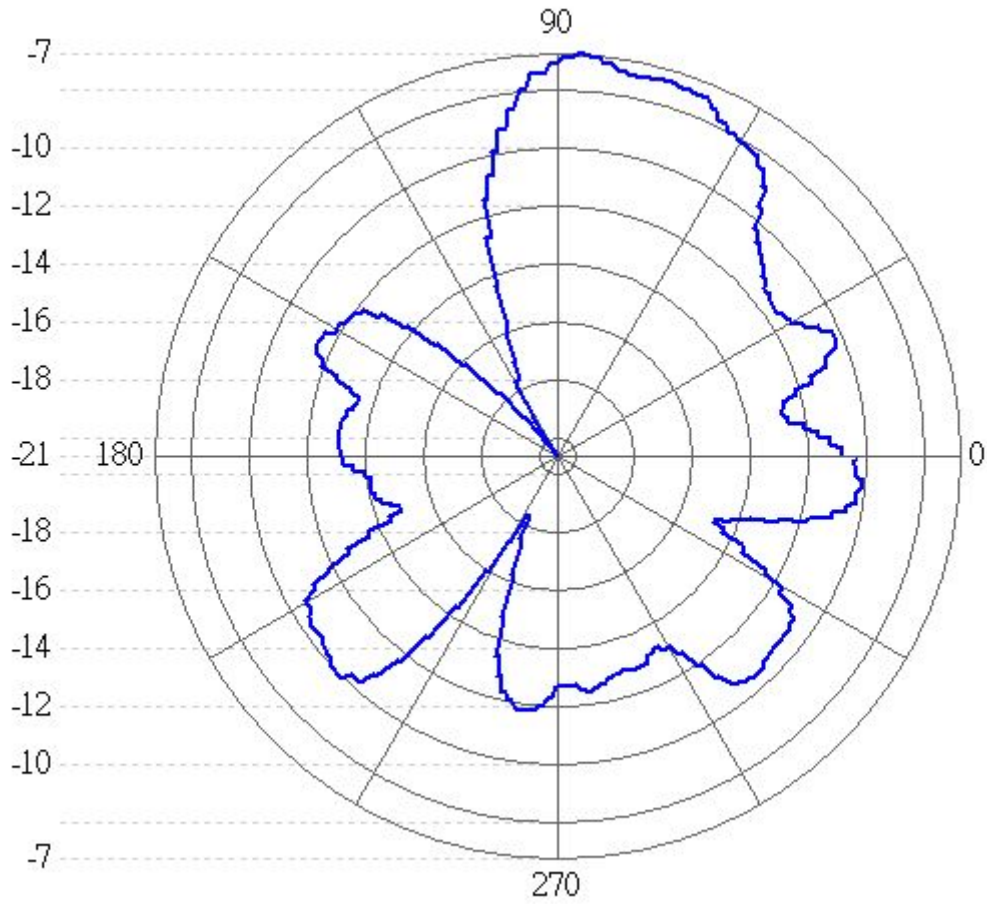
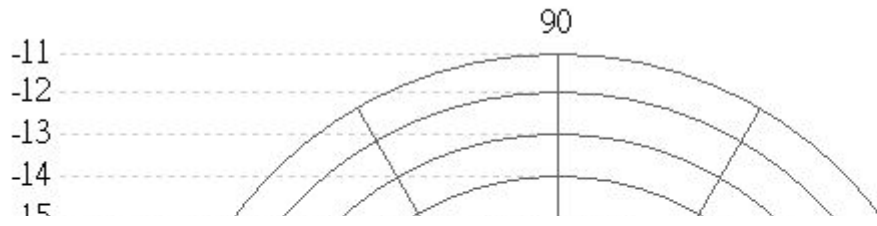


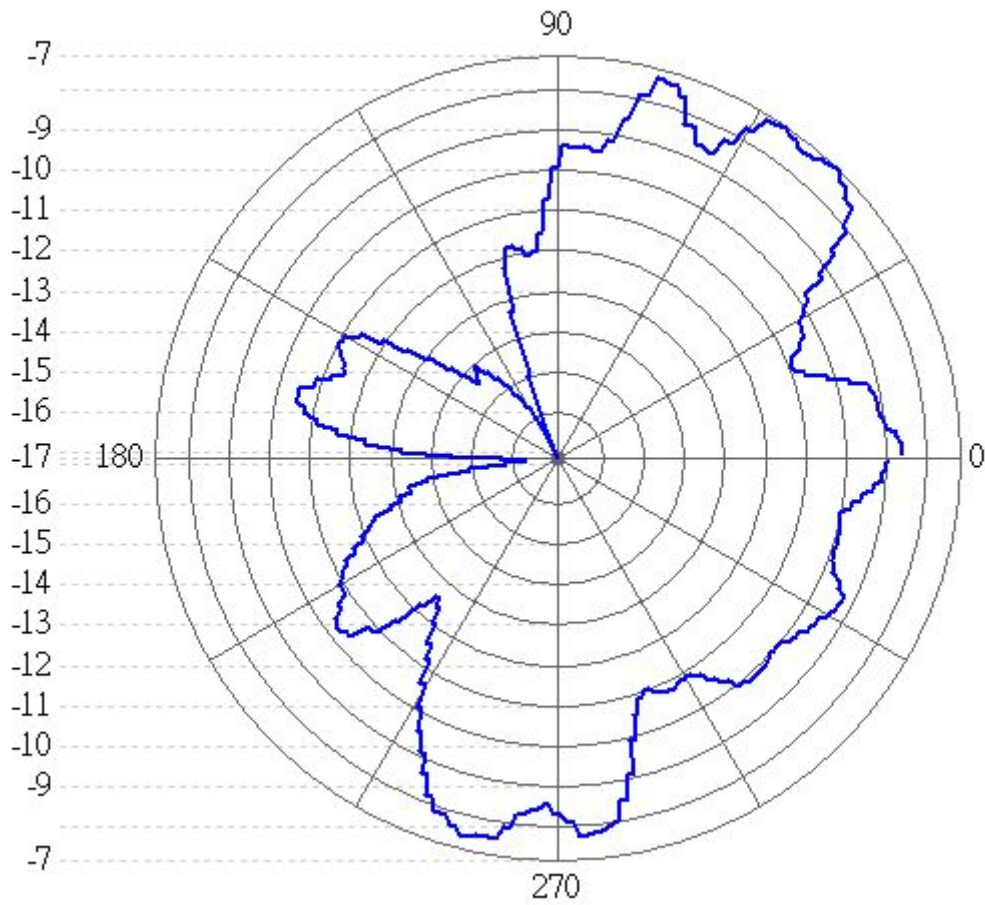
Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2405	67.3	-6.7692	-11.7938



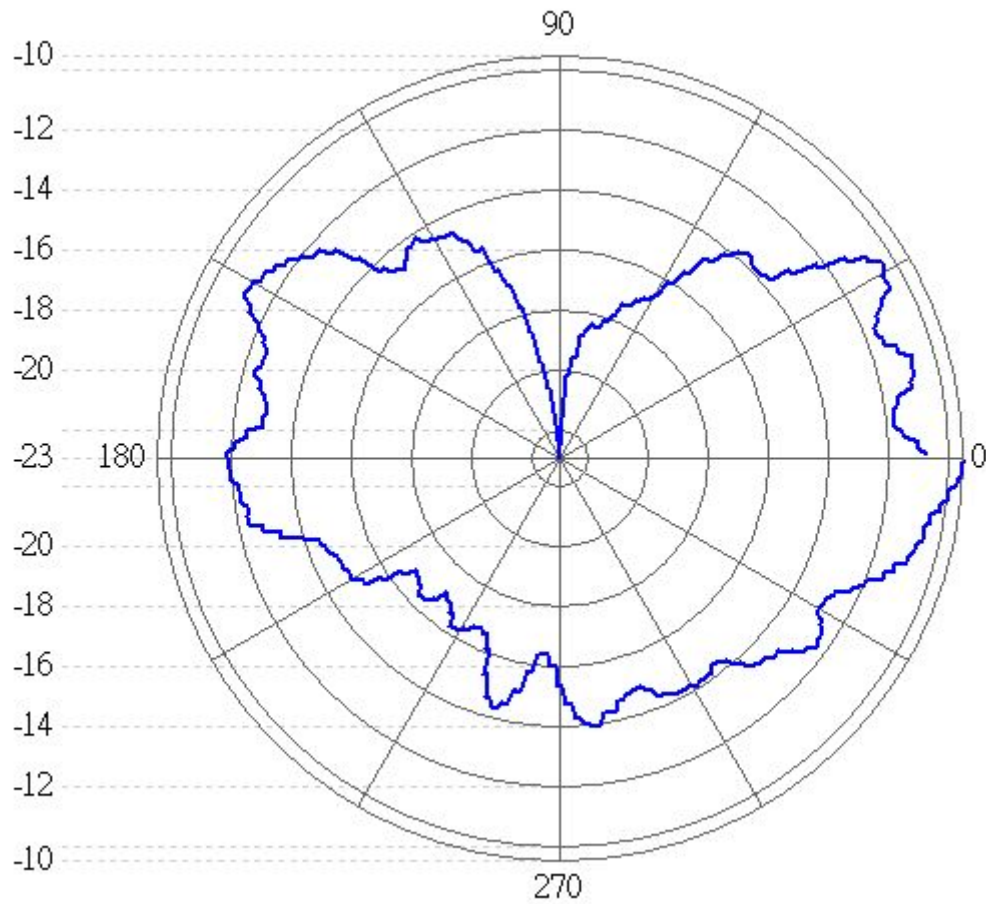


Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2441	86.3	-6.7625	-12.0825



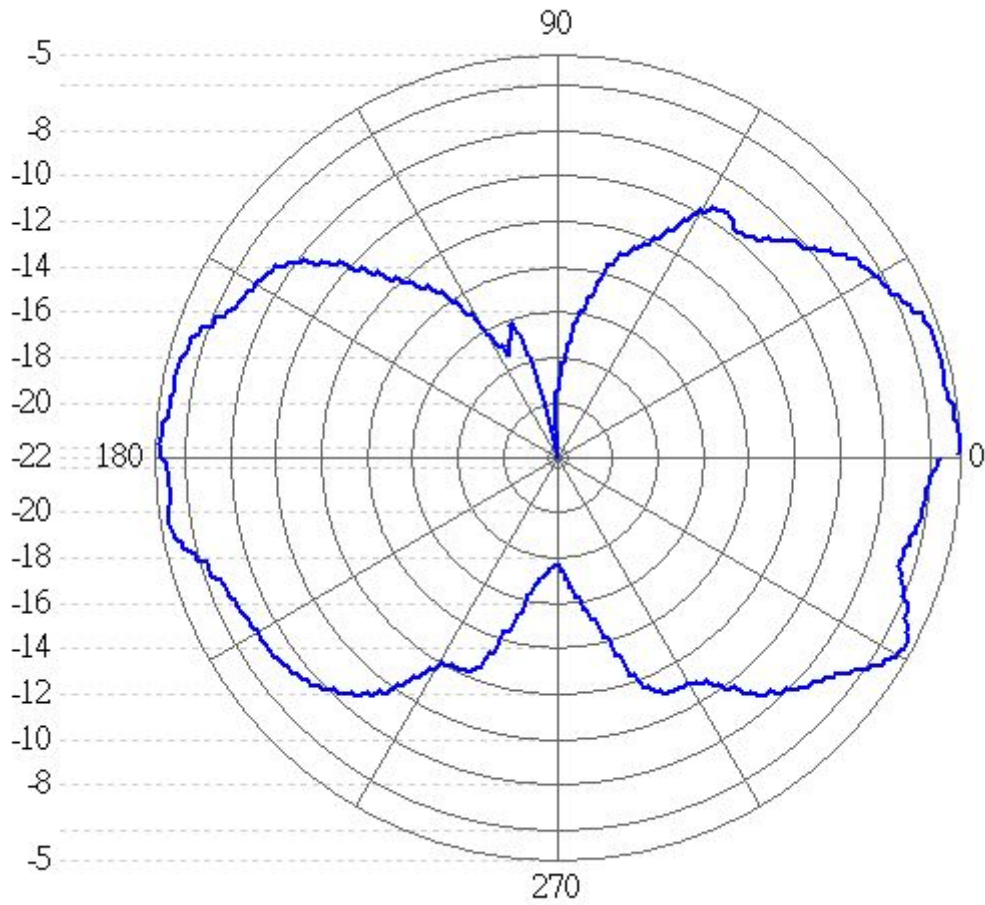


Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2470	45.3	-7.1647	-10.5808

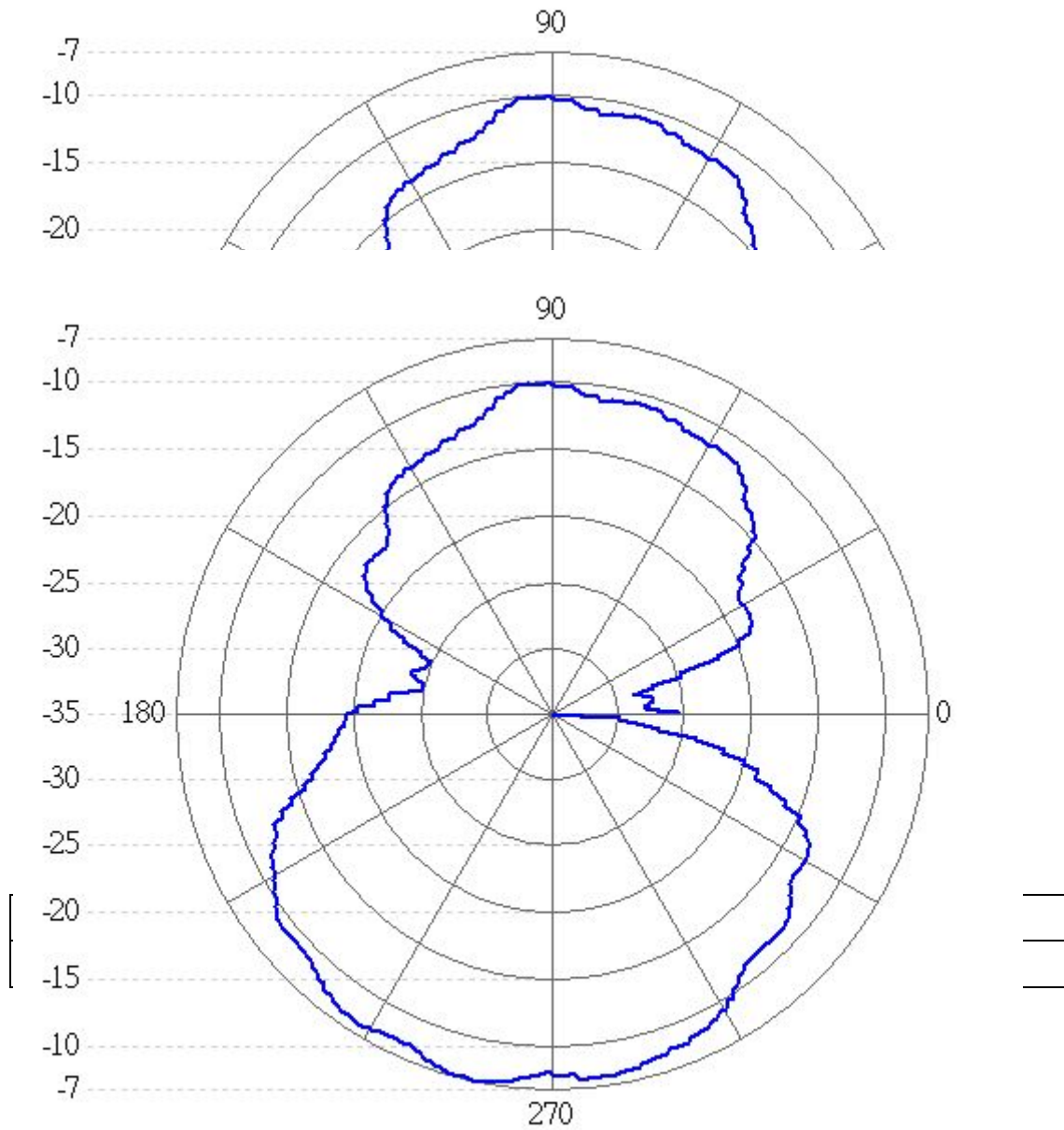


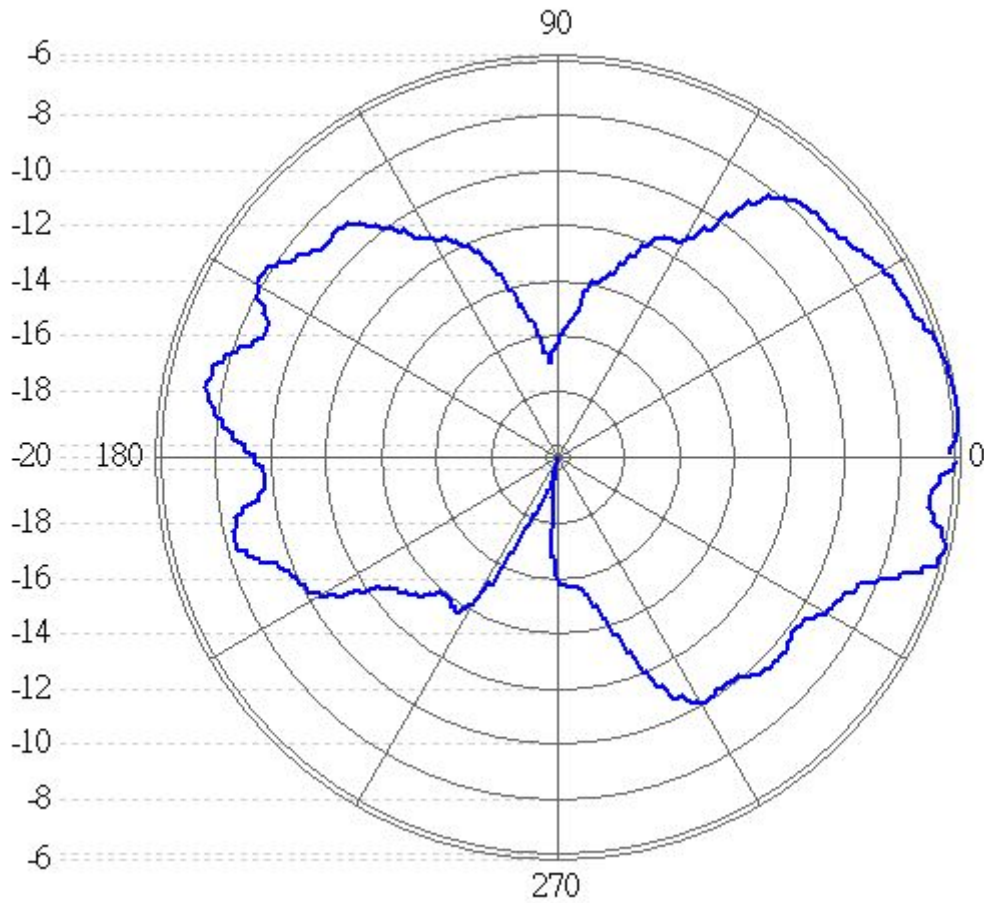
Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Vertical	2470	358.1	-9.5213	-14.3072

Y-Z Plane Radiation Pattern

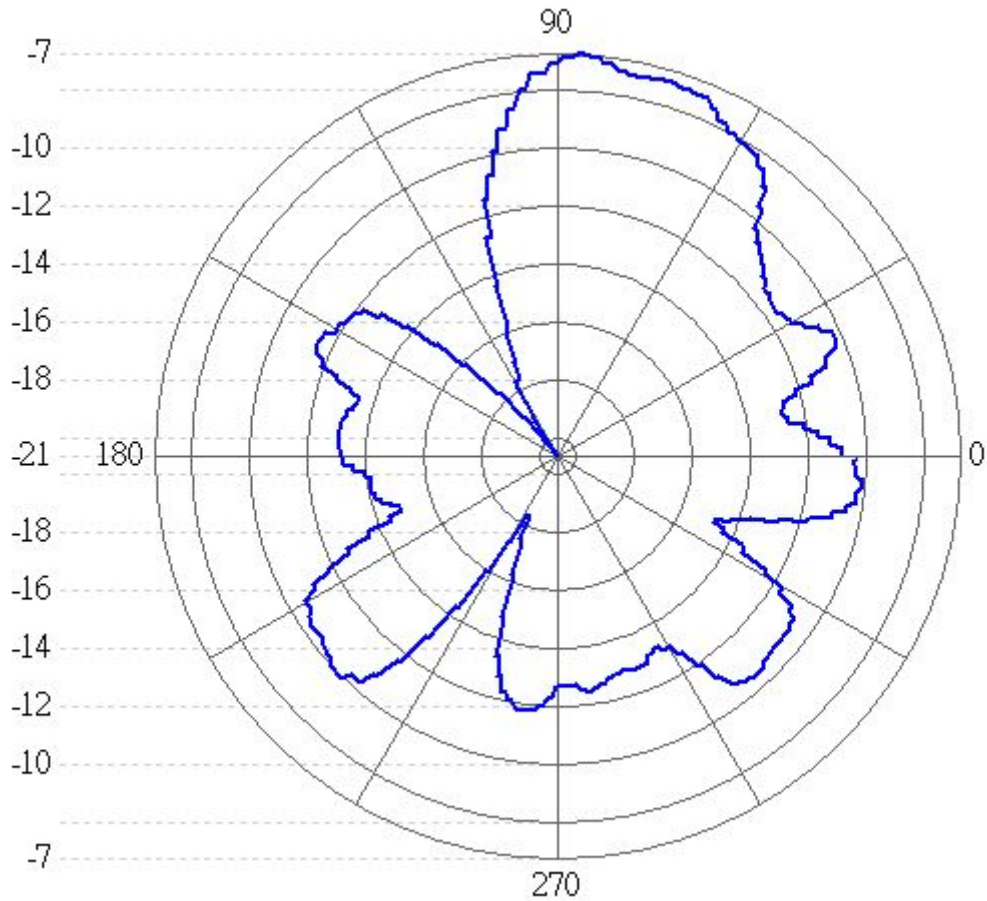
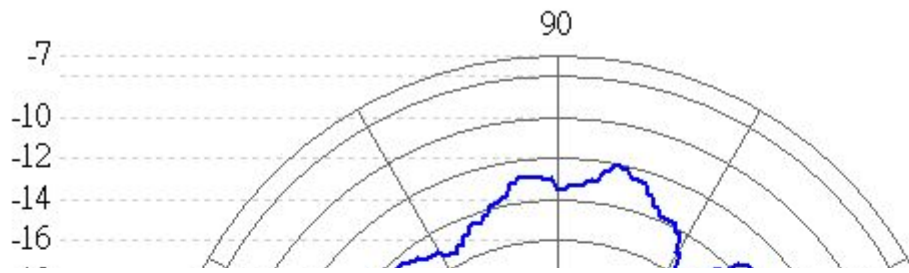


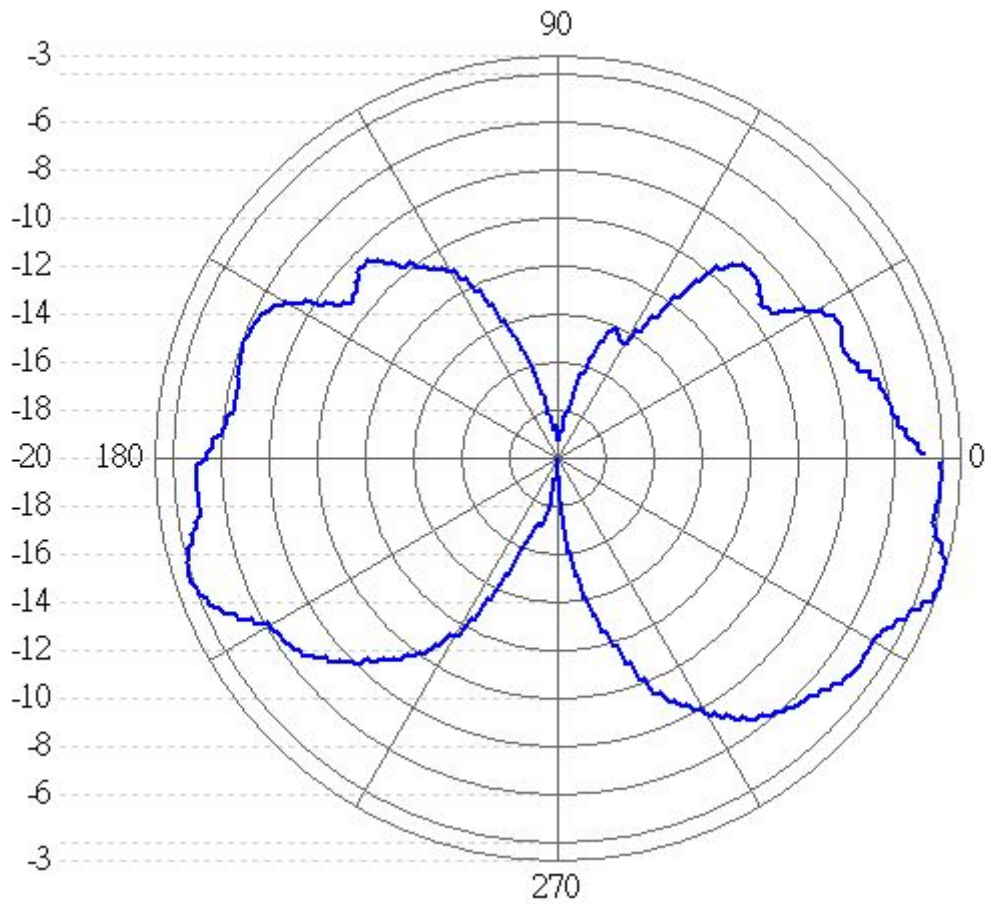
Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2405	1.5	-4.6867	-10.0746



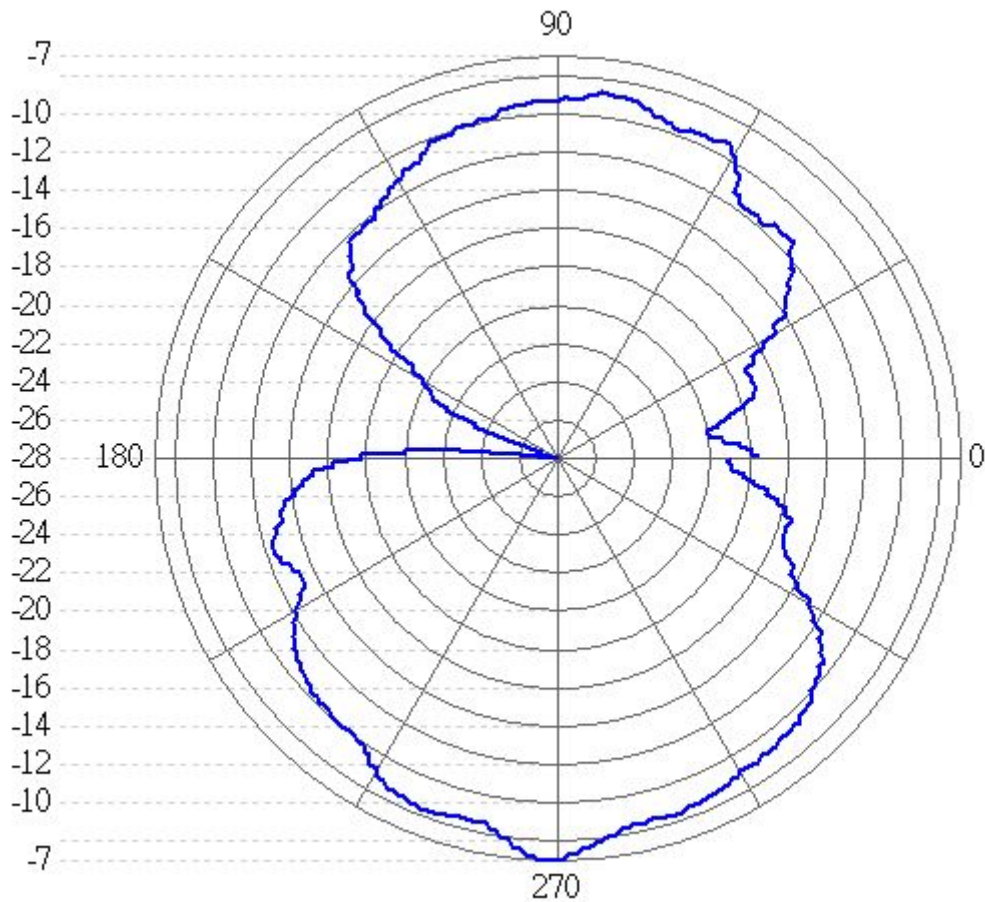


Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2441	8.4	-5.7937	-10.9016



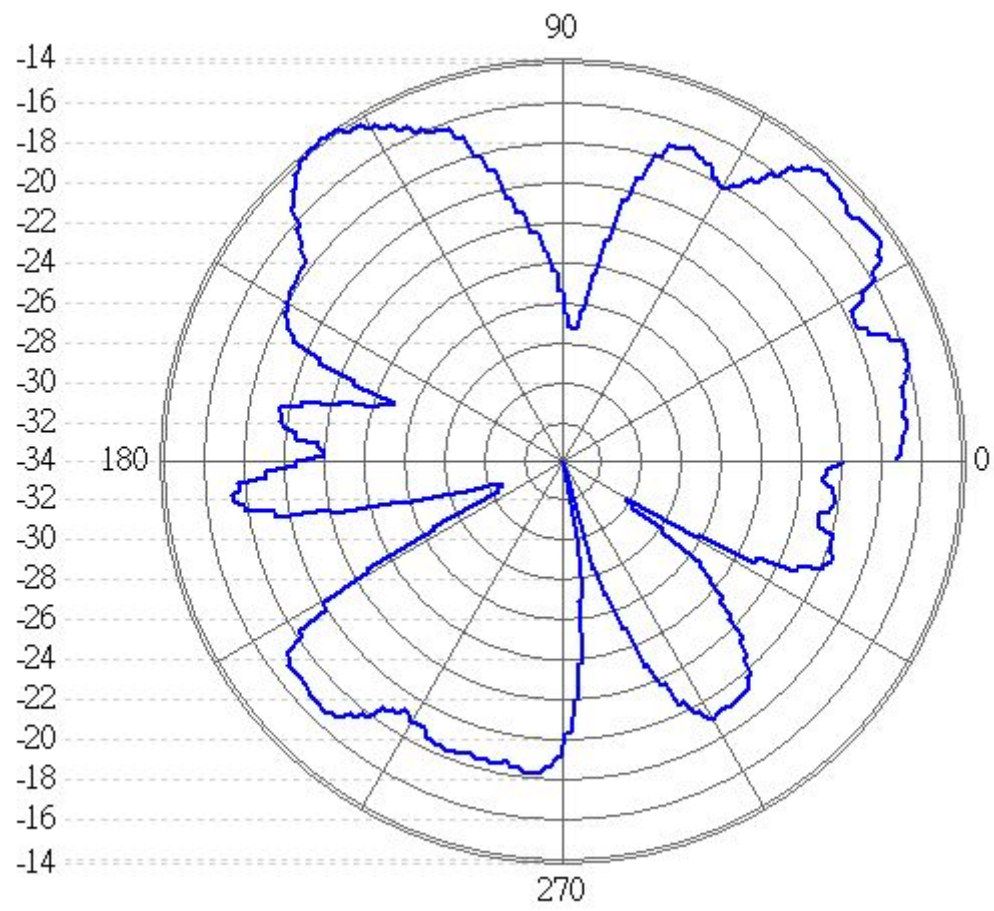


Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2470	341.4	-3.2708	-9.7454

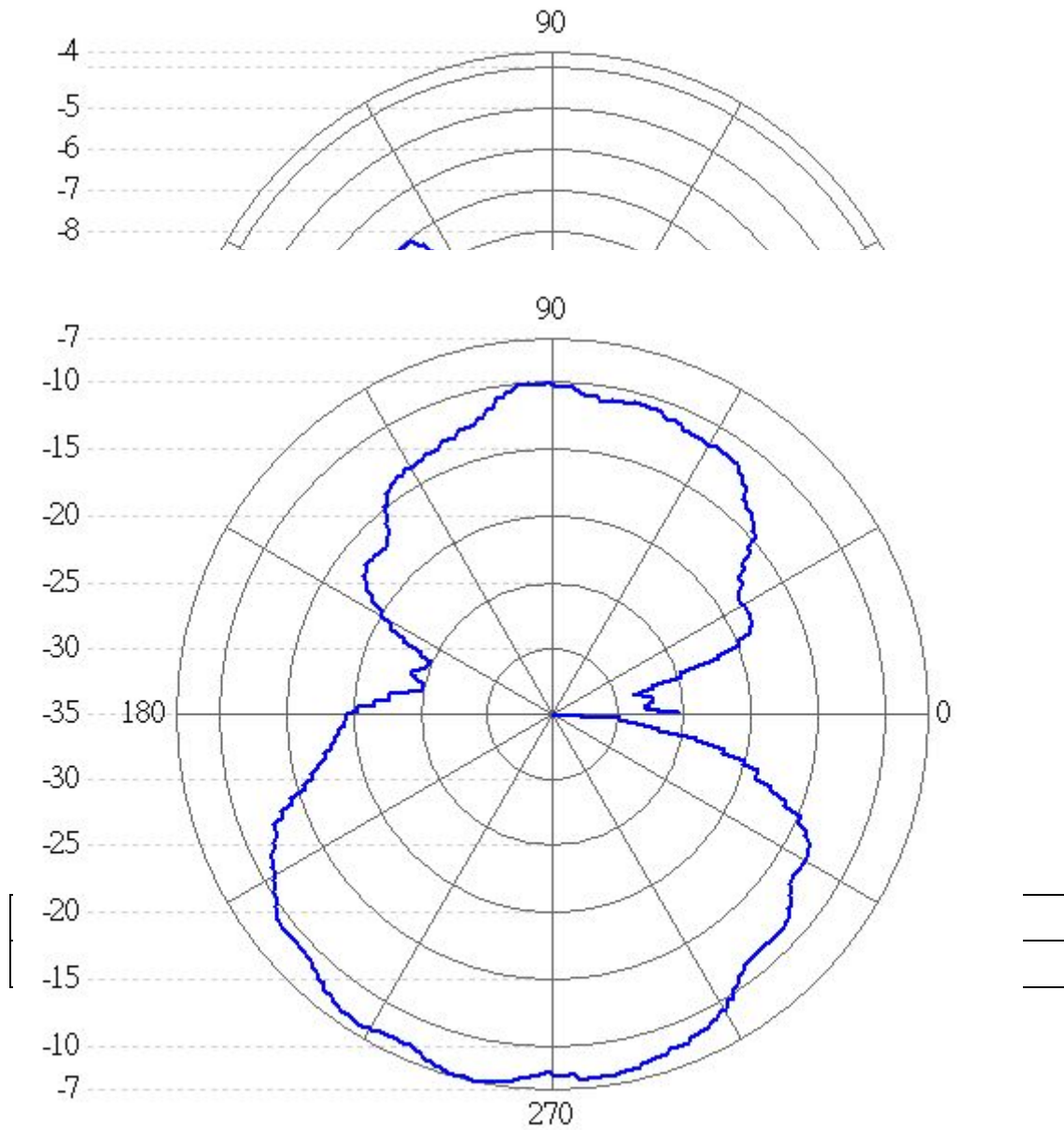


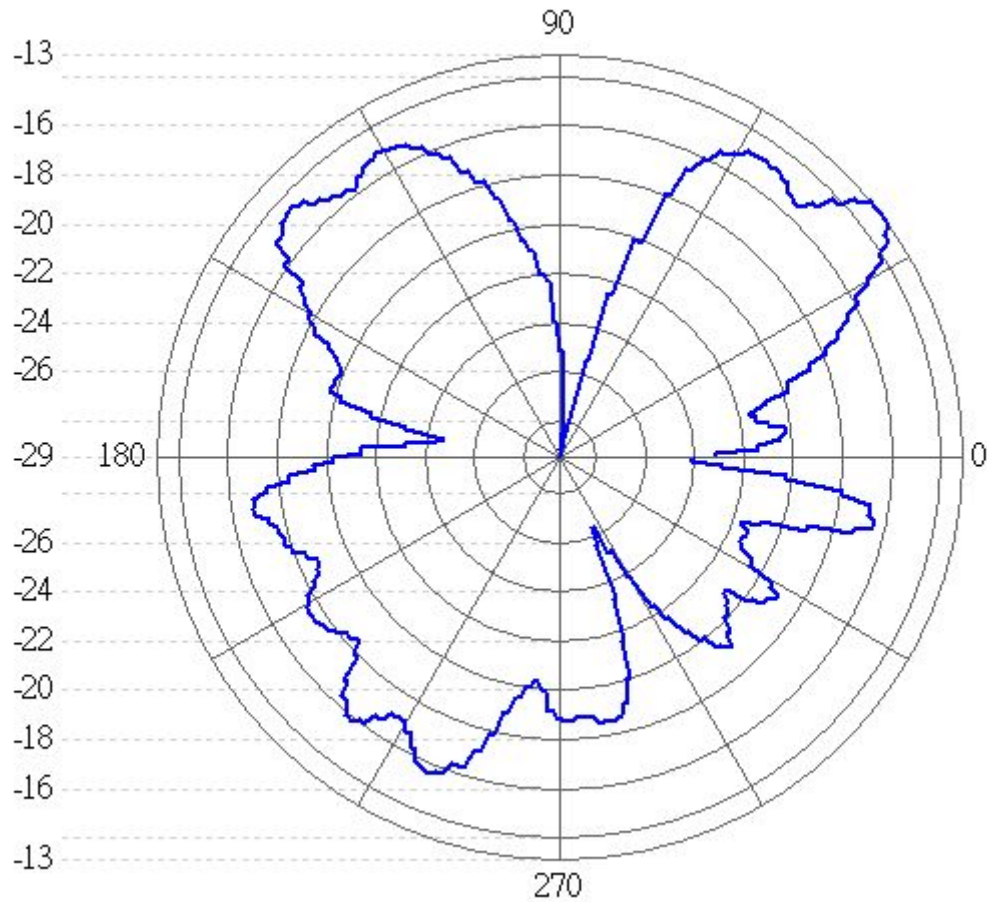
Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Vertical	2470	269.6	-6.9656	-12.8127

X-Z Plane Radiation Pattern

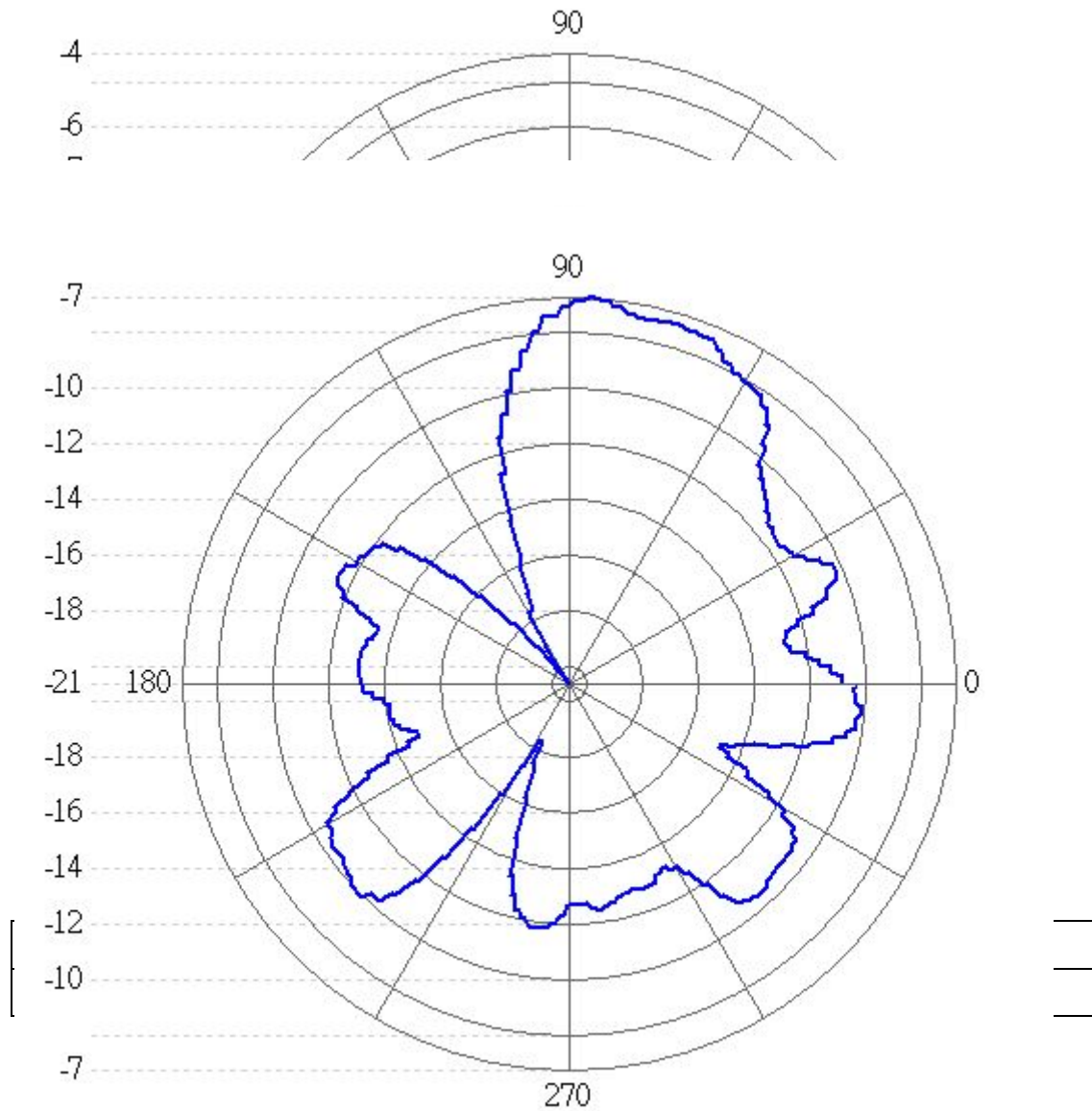


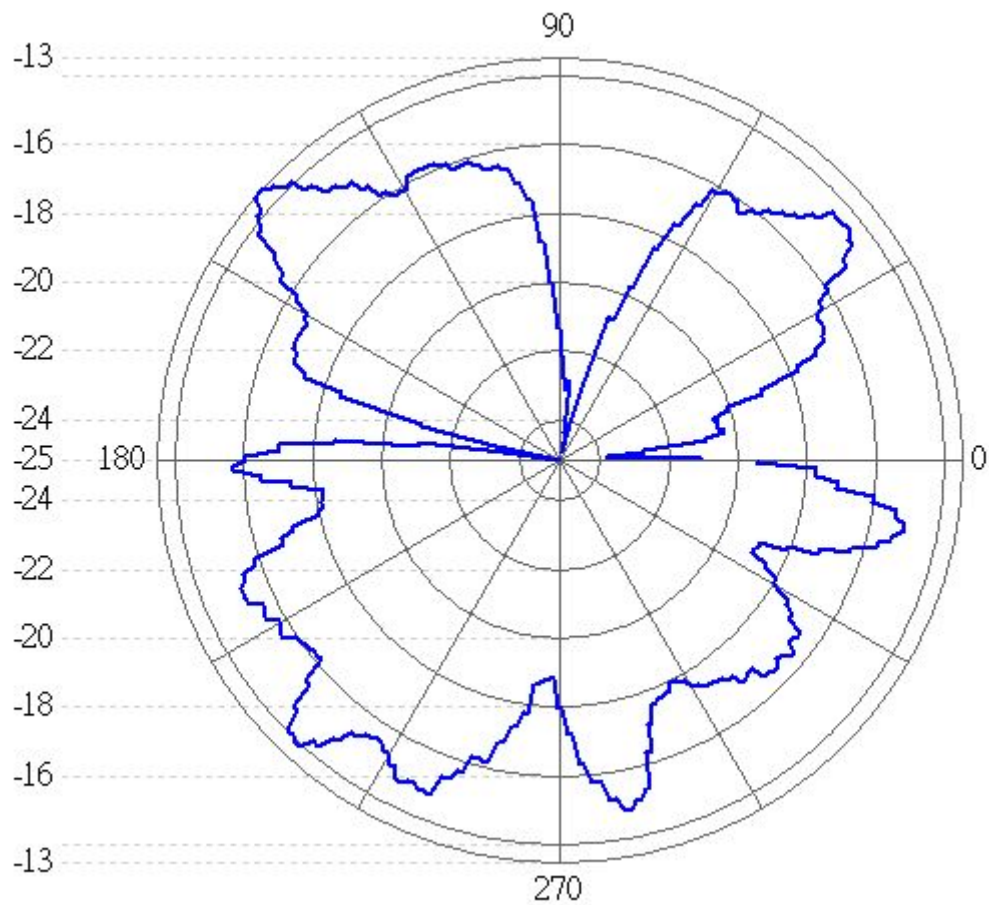
Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2405	126.1	-13.8461	-19.903

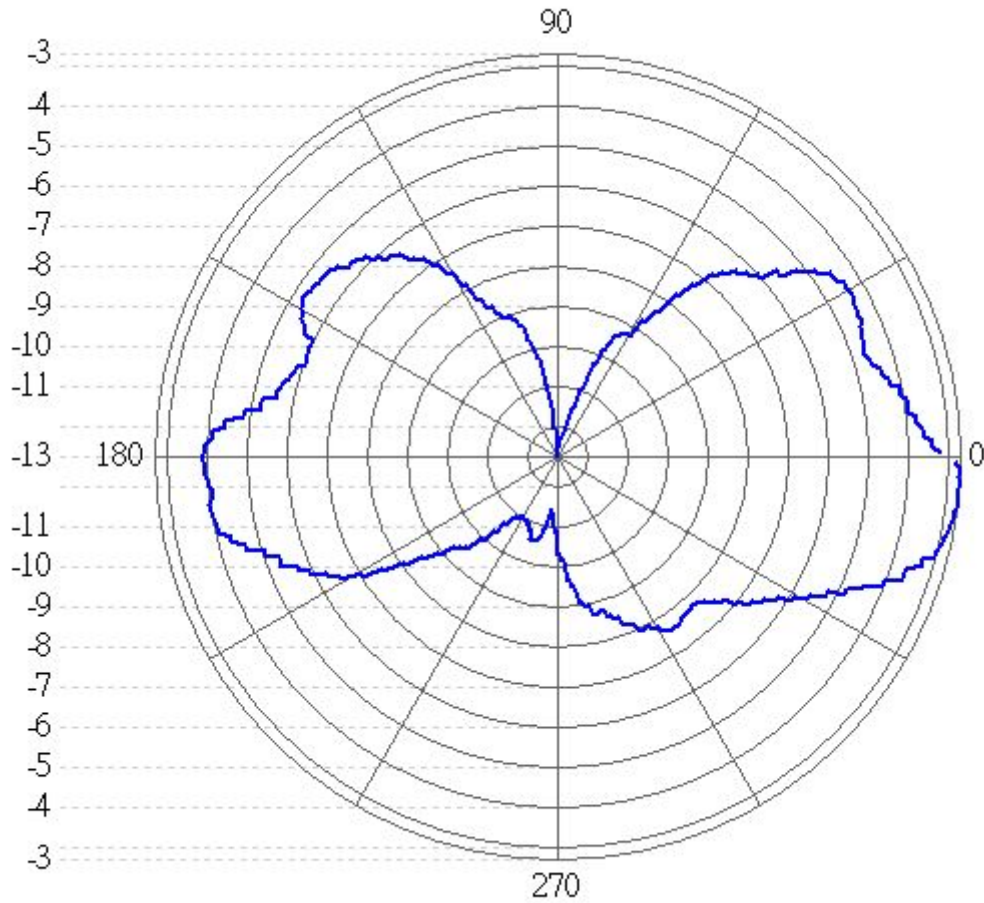




Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Horizontal	2441	38.2	-13.1149	-18.8955







Polarization	Freq(MHz)	Peak Angle(°)	Peak Value(dBi)	Average(dBi)
Vertical	2470	353.1	-2.702	-7.3313