

## WPANT30093-R1A

### Wi-Fi Dual-band Directional Panel Antenna



### Description / Application

This is a 2.4 GHz and 5 GHz Wi-Fi / WLAN Directional Panel antenna. It comes with Type-N female connectors and mounting brackets for installation. The antenna is at DC ground to ensure protection against lightning.

We can assist your engineers to optimize mounting positions for these antennas in your applications and can further customize the antennas for your specific needs. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	2.4 – 2.5 GHz	4.9 – 5.9 GHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR – Typical</b>	< 2:1	< 2:1
<b>Peak Gain [dBi] (Typical)</b>	10 dBi	13 dBi
<b>Polarization</b>	Vertical or Horizontal	Vertical or Horizontal
<b>Pattern</b>	Directional	Directional
<b>Accepted Power [W] (Max)</b>	100 Watts	
<b>Lightning Protection</b>	DC ground	

### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	8.94" X 8.94" X 1.38" (227mm X 227mm X 35mm)	
<b>Antenna Color</b>	Grey	
<b>Connector</b>	Type-N Female	
<b>Antenna Radome</b>	Polycarbonate	
<b>Operating / Storage Temperature</b>	-40°C to +90°C	
<b>Environmental</b>	Meets standards for UL 94V-0	
<b>Hazardous Materials</b>	RoHS Compliant	

Pictures of the Antenna

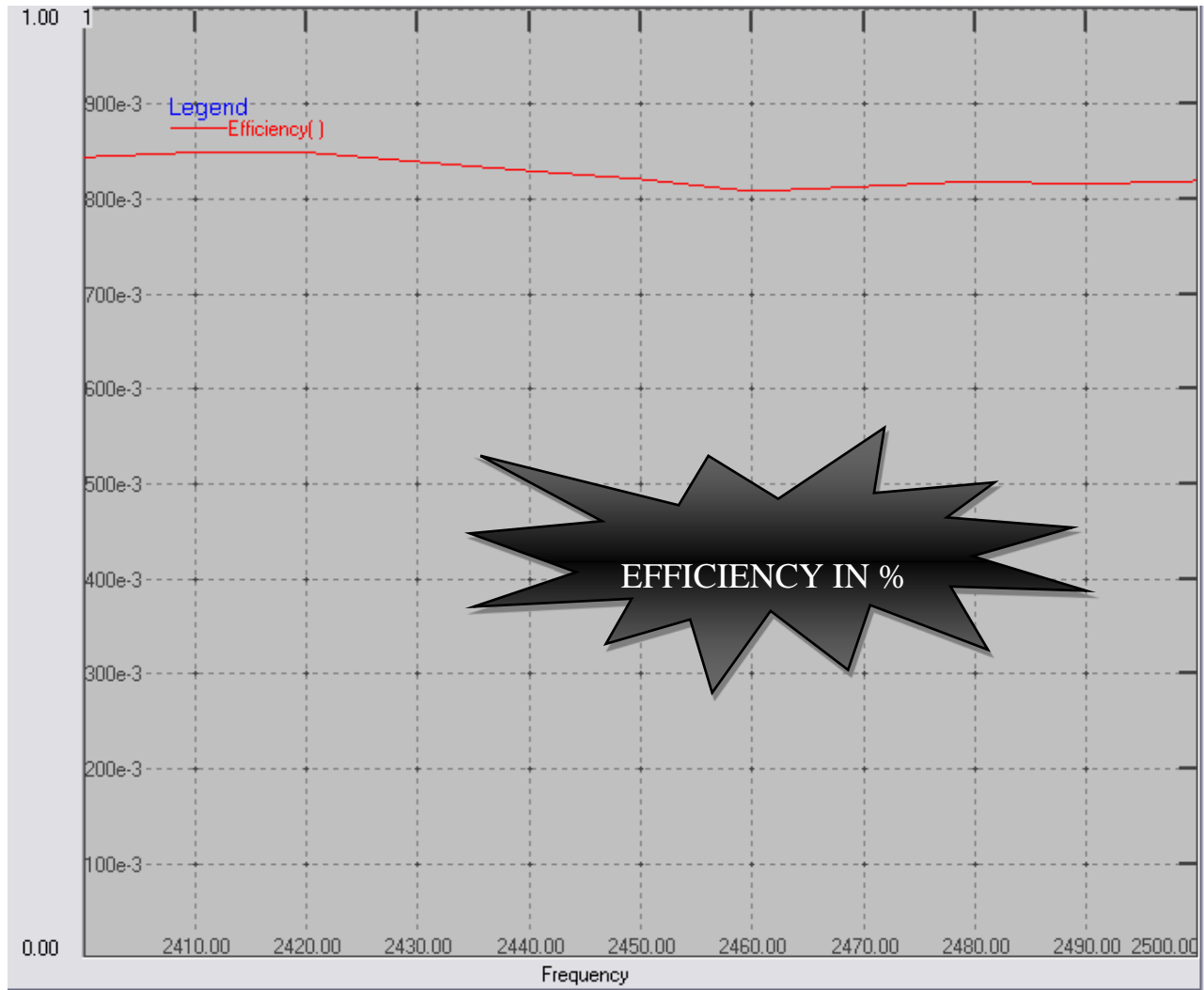


FRONT SIDE

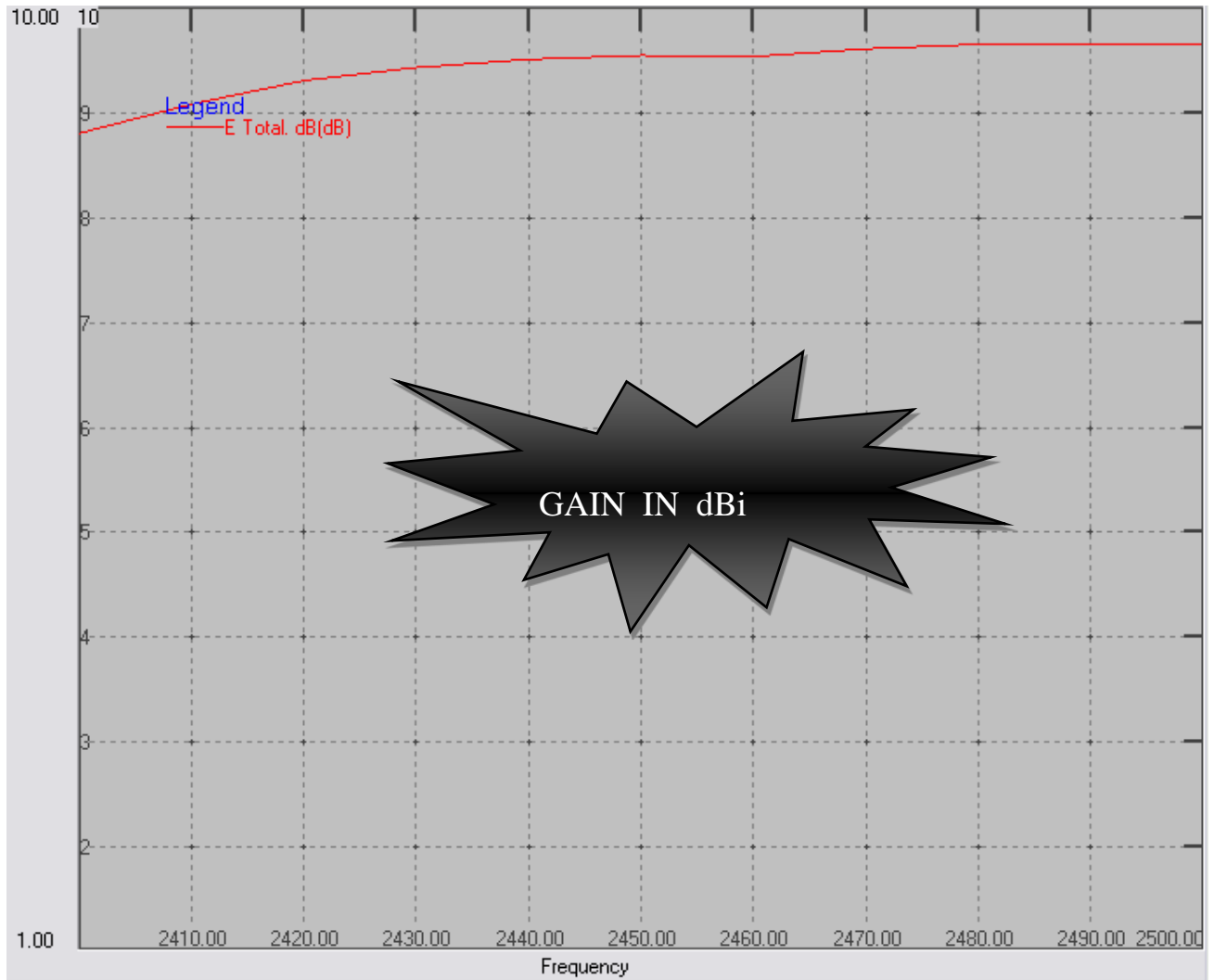


BACK SIDE

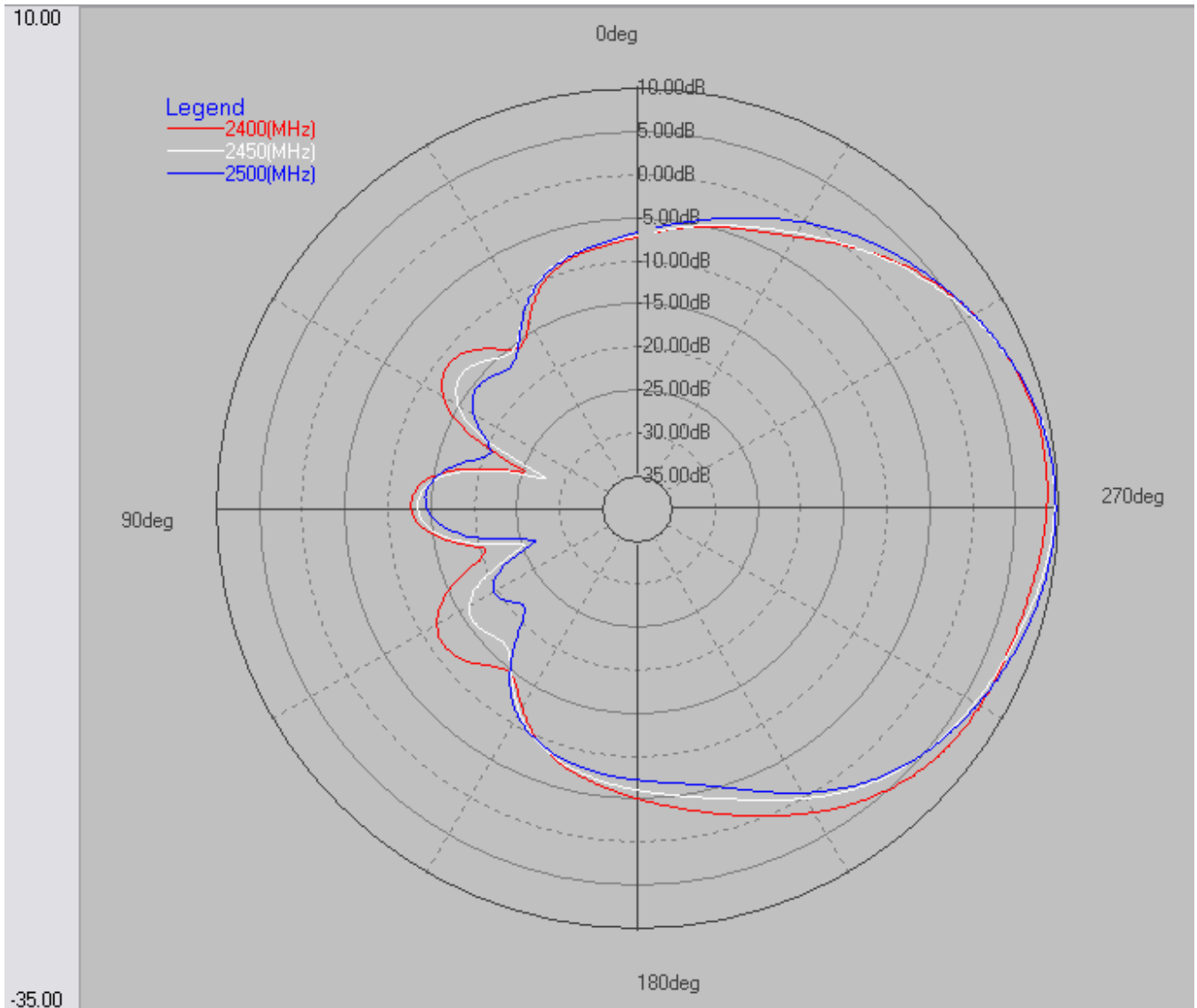
### Efficiency of the Antenna at 2.4 – 2.5 GHz



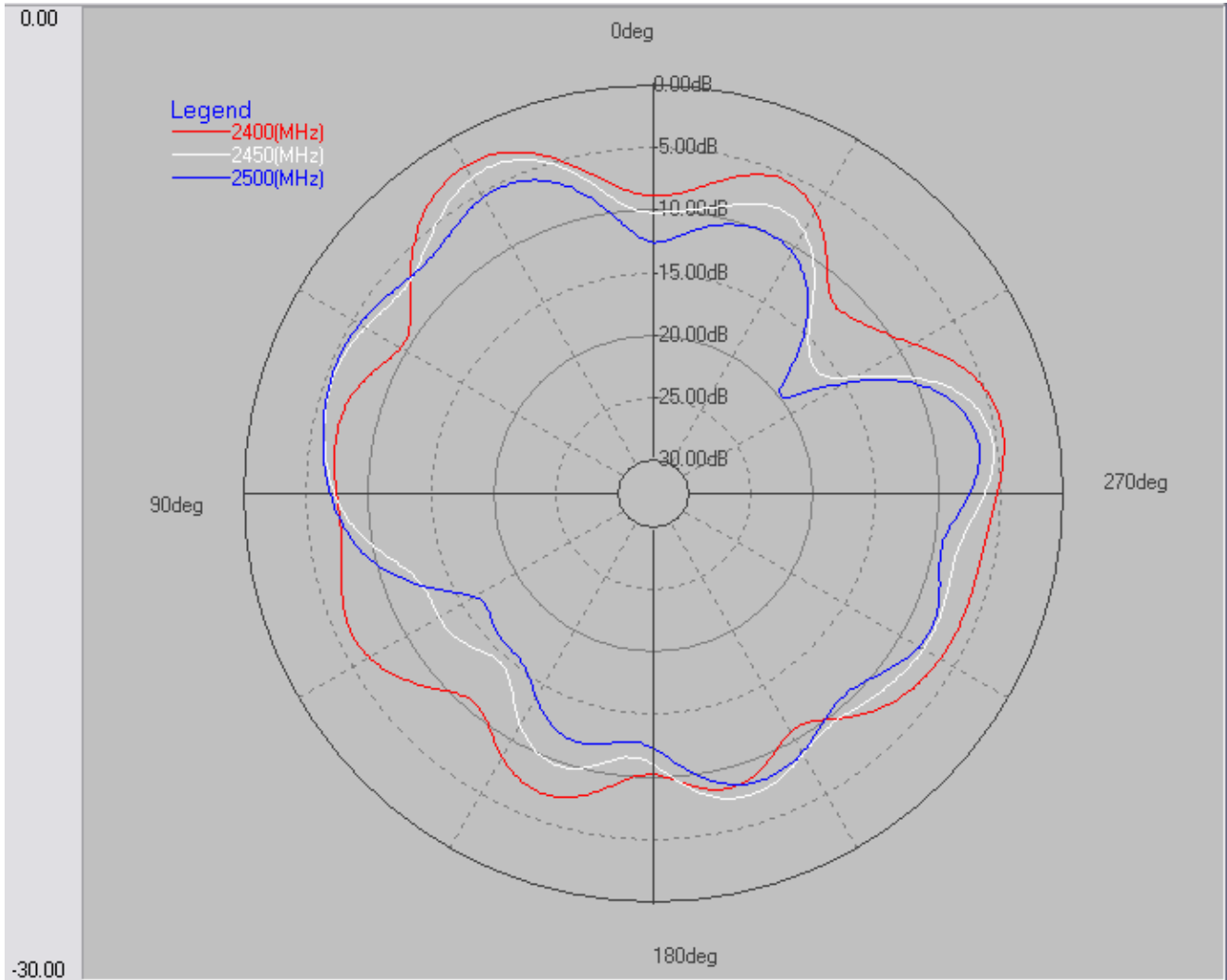
### Peak Gain of the Antenna at 2.4 – 2.5 GHz



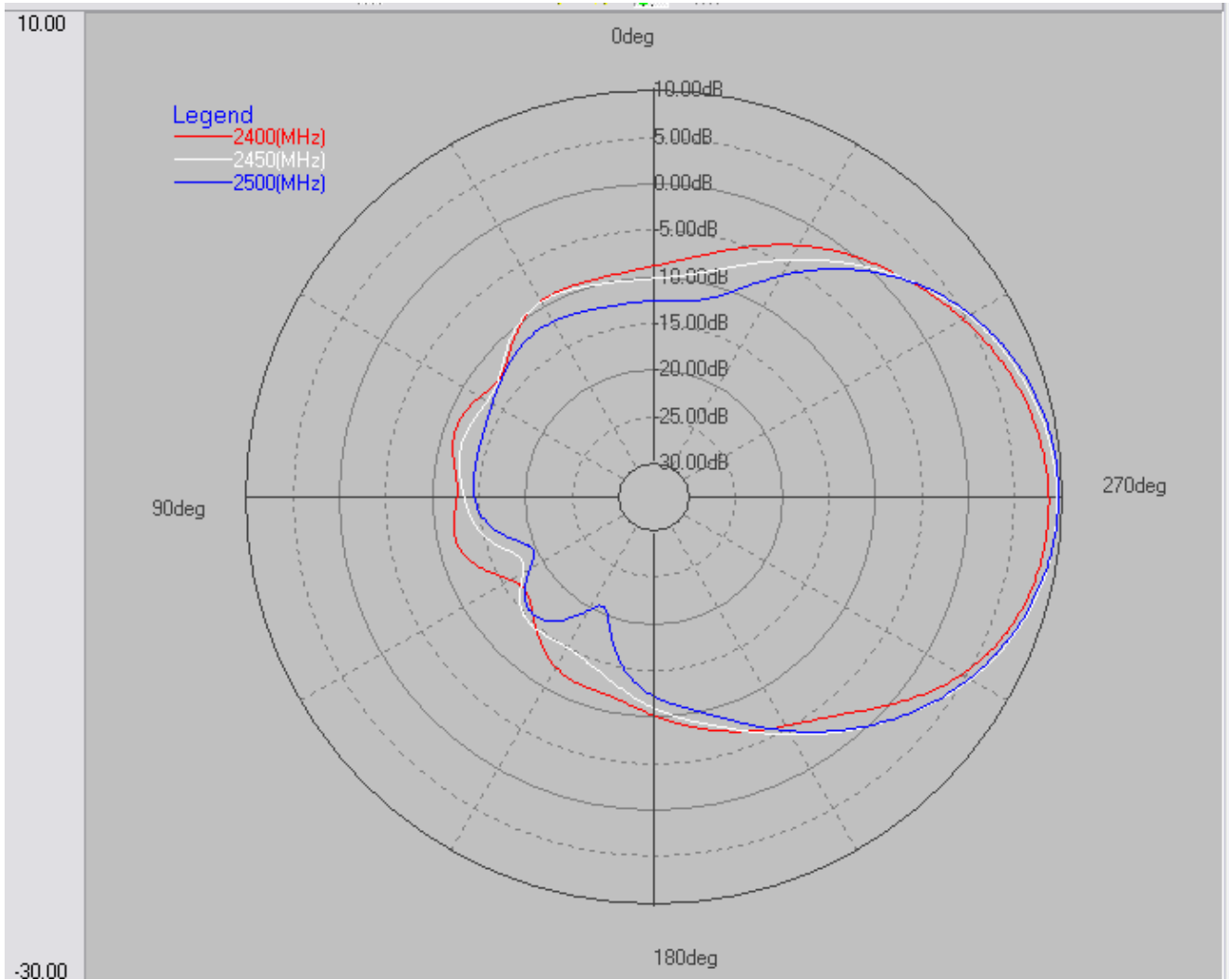
2D Radiation Pattern of the Antenna at 2.4 – 2.5 GHz (Azimuth)



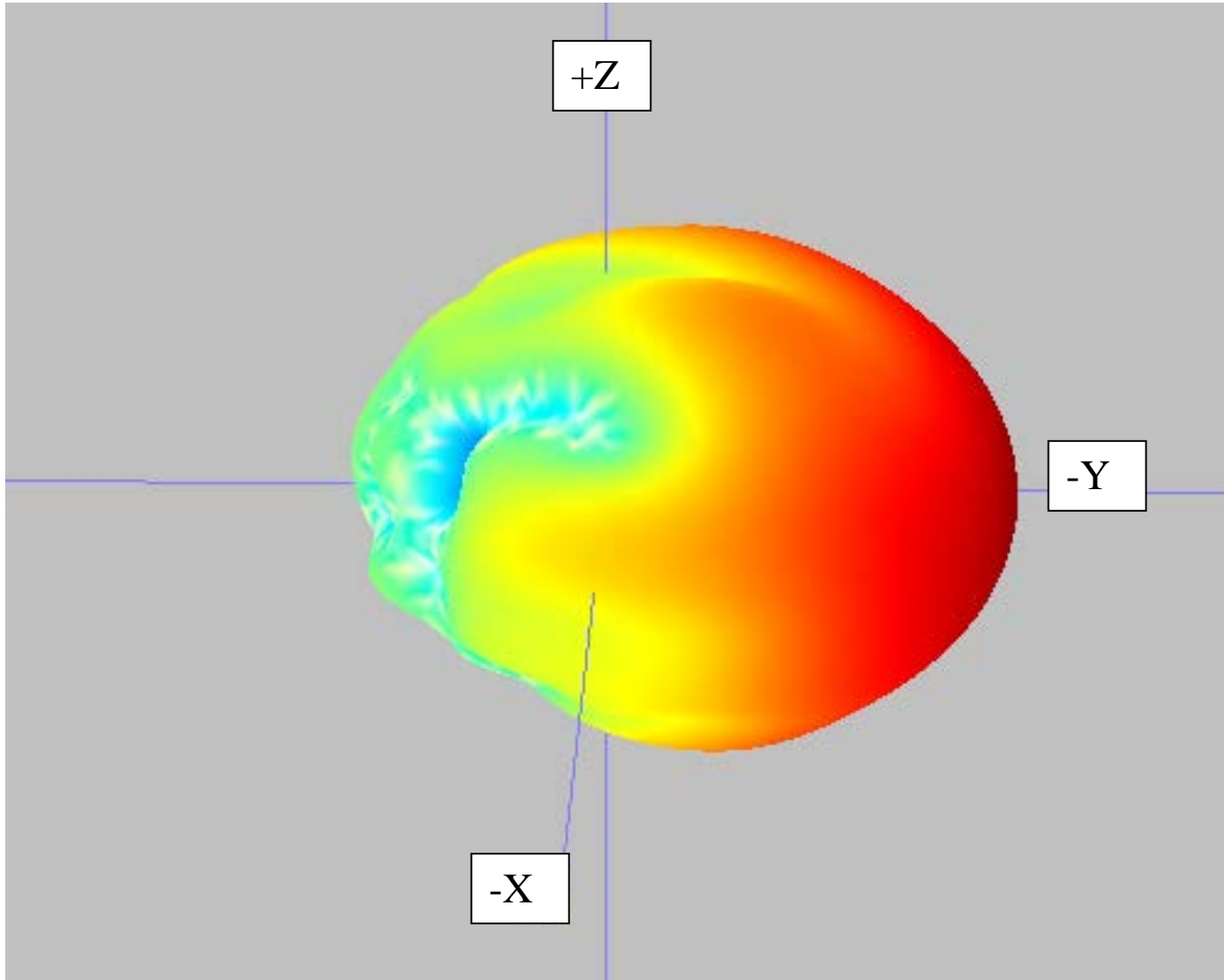
2D Radiation Pattern of the Antenna at 2.4 – 2.5 GHz (Elevation # 1)



2D Radiation Pattern of the Antenna at 2.4 – 2.5 GHz (Elevation # 2)

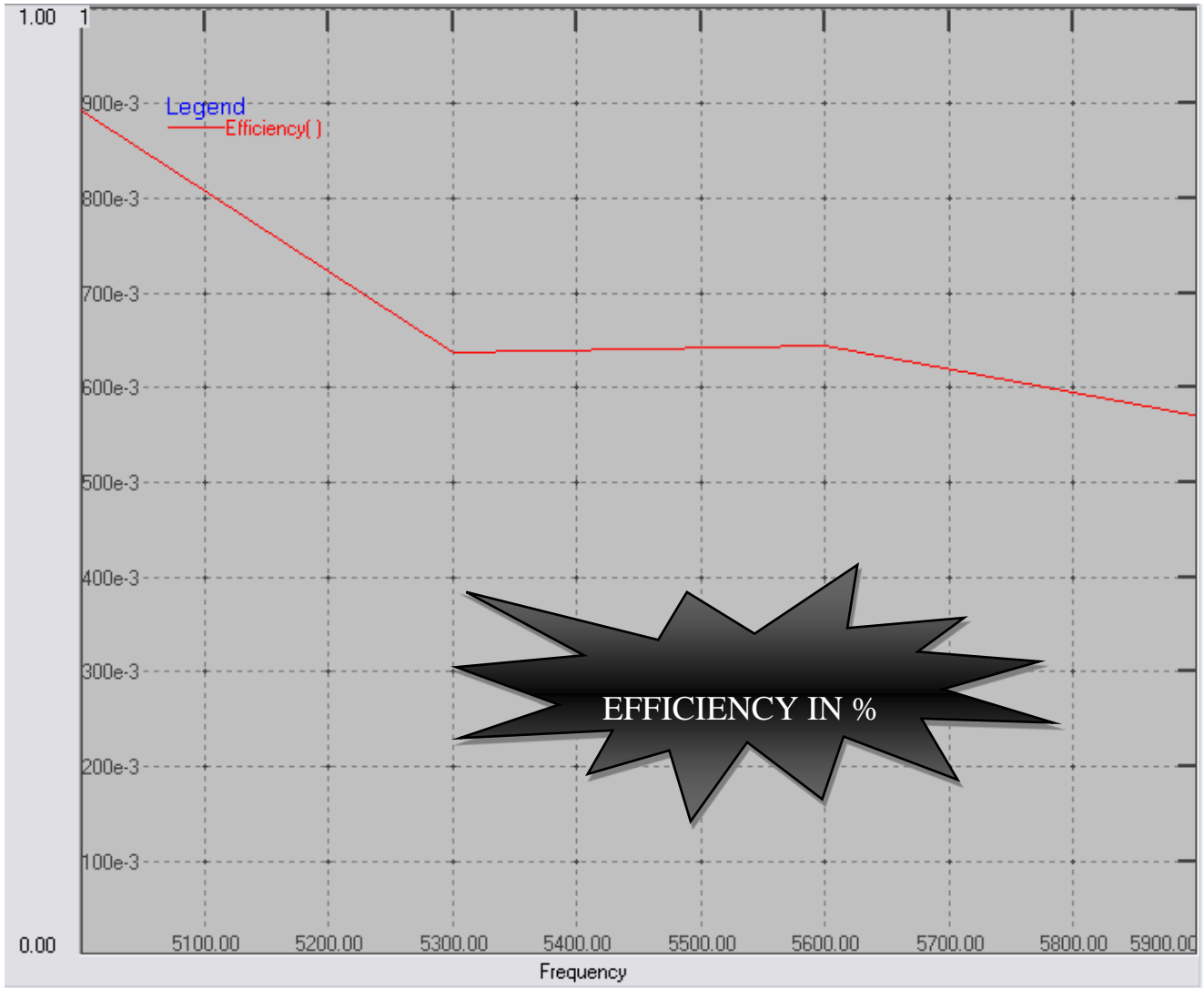


### 3D Radiation Pattern of the Antenna at 2.4 – 2.5 GHz

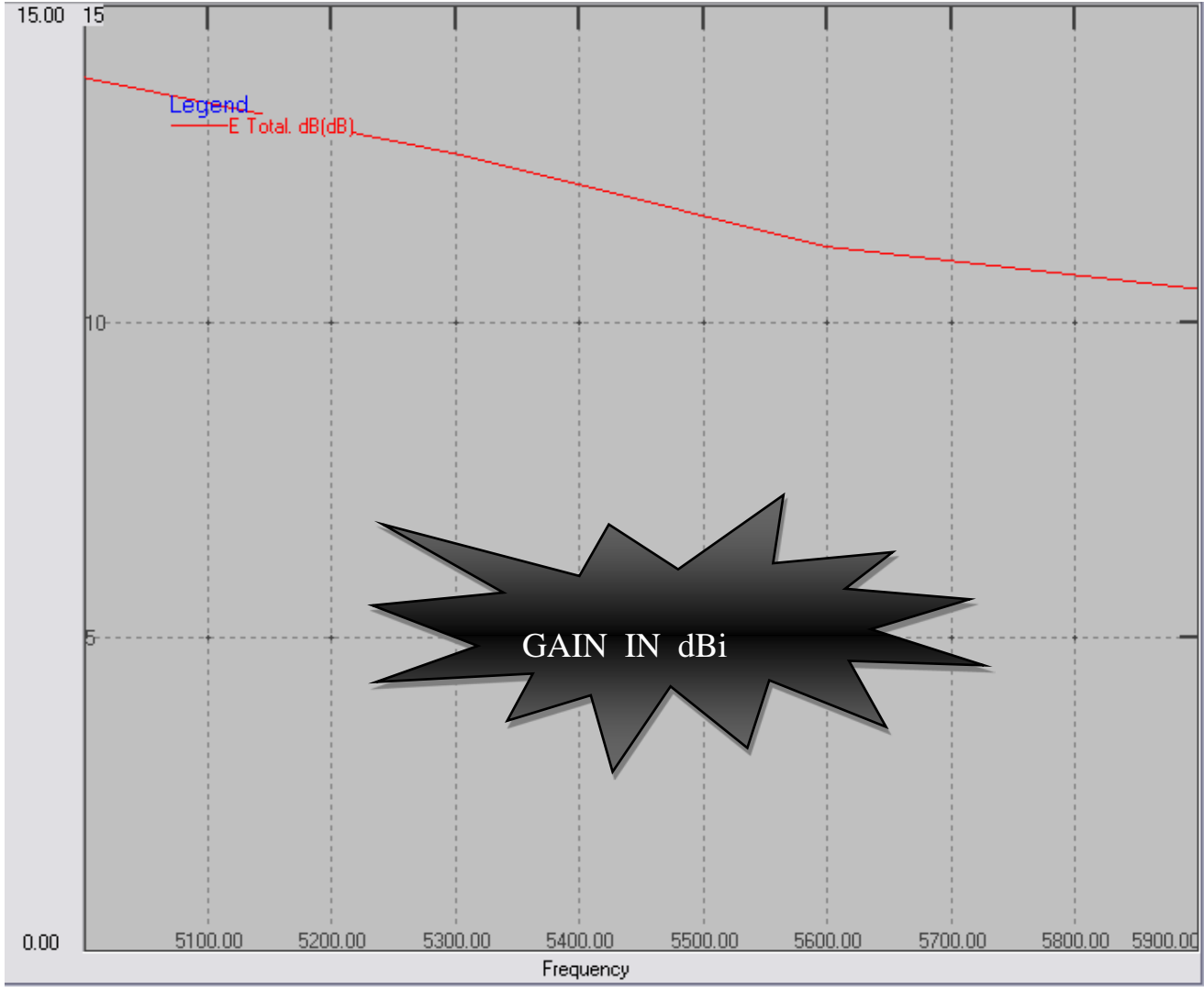




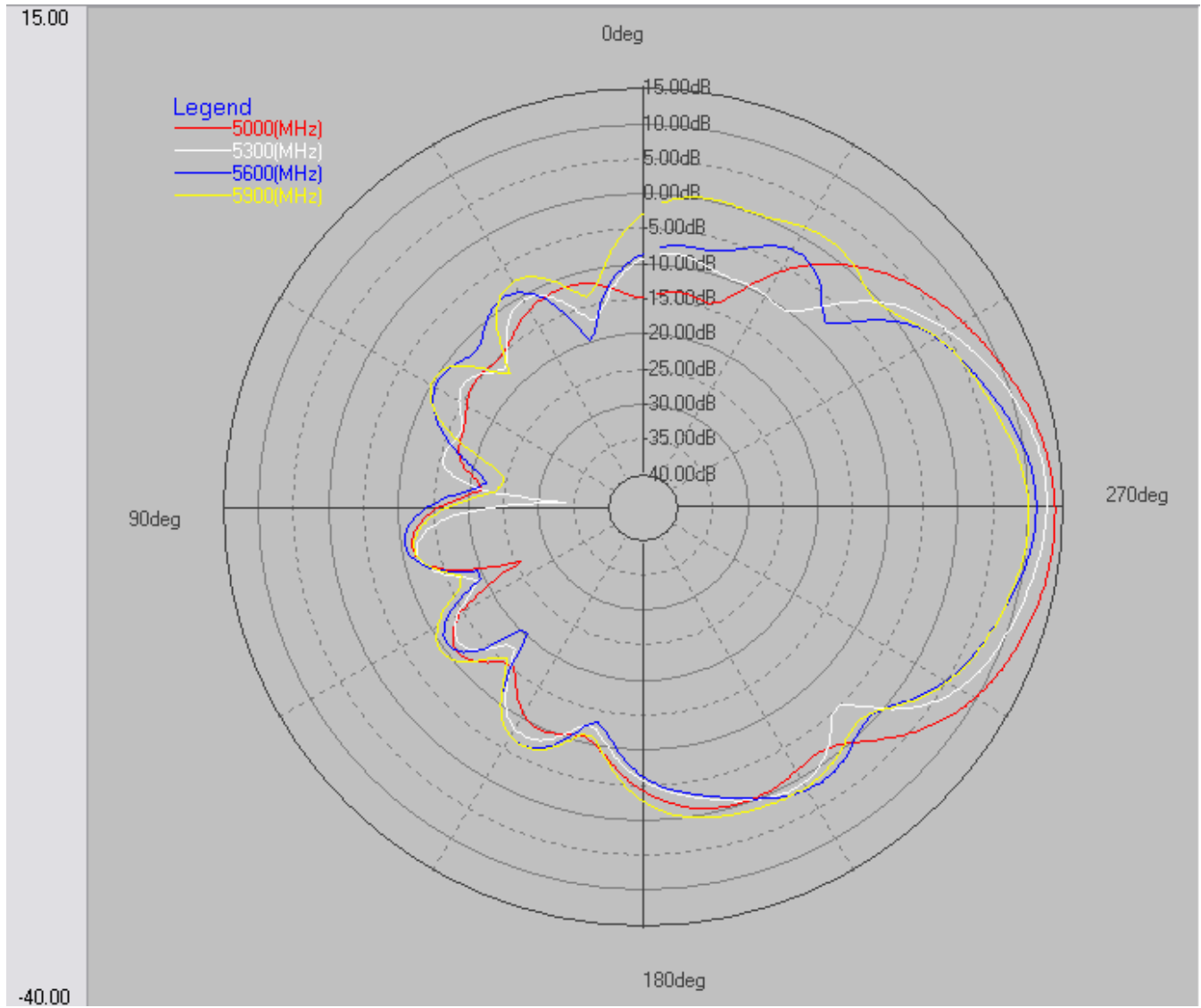
**Efficiency of the Antenna at 5.0 – 5.9 GHz**



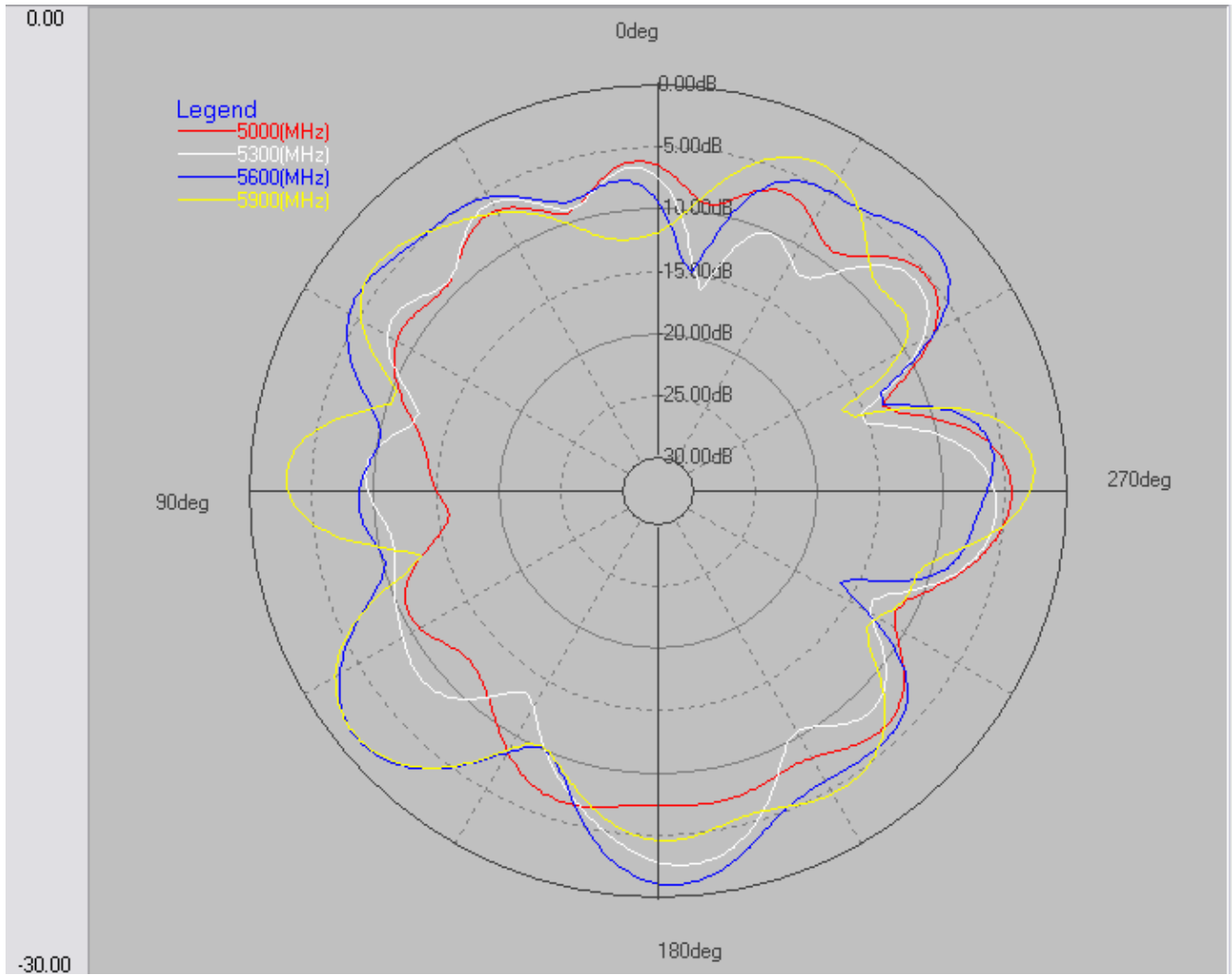
**Peak Gain of the Antenna at 5.0 – 5.9 GHz**



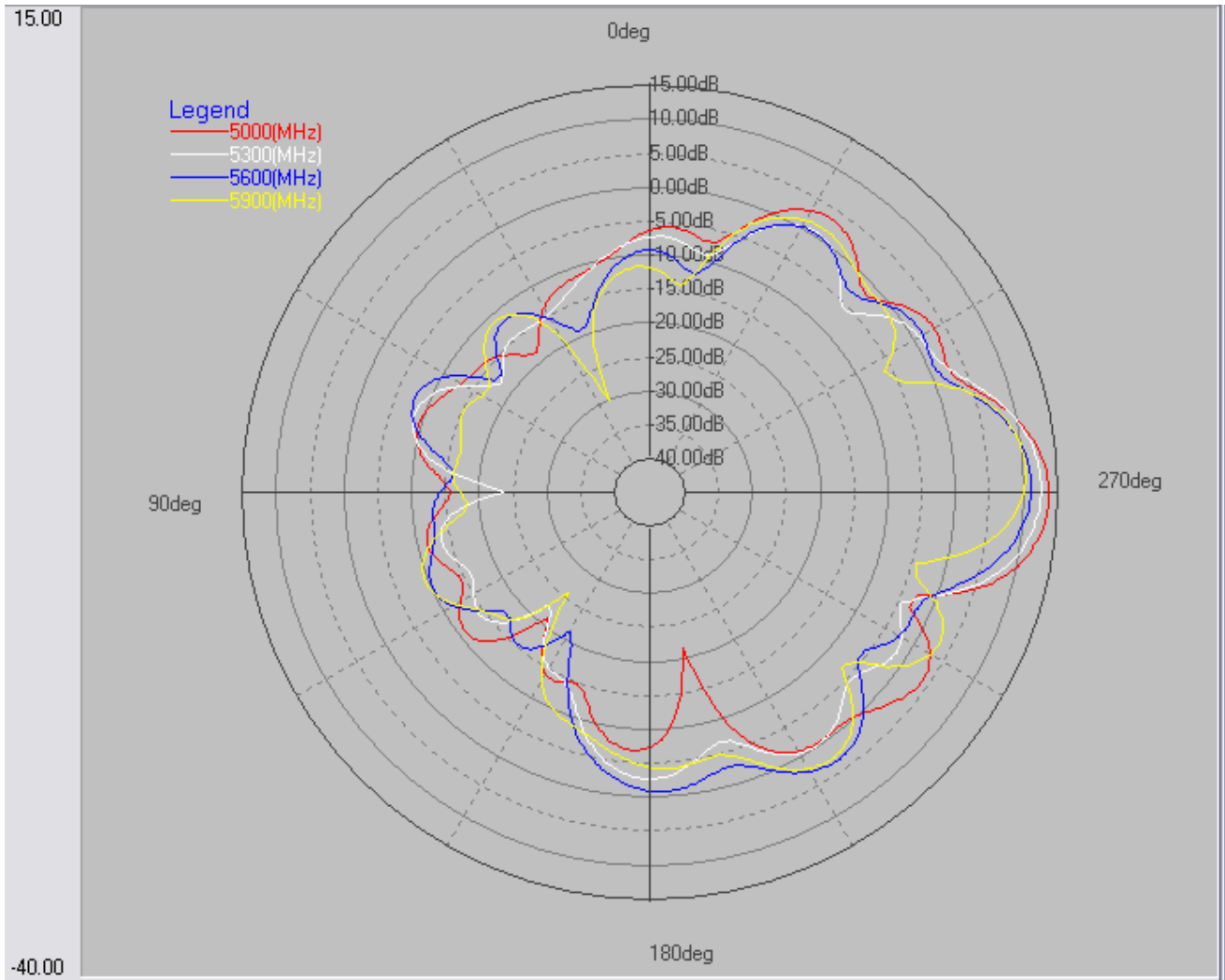
**2D Radiation Pattern of the Antenna at 5.0 – 5.9 GHz (Azimuth)**



**2D Radiation Pattern of the Antenna at 5.0 – 5.9 GHz (Elevation # 1)**



2D Radiation Pattern of the Antenna at 5.0 – 5.9 GHz (Elevation # 2)



### 3D Radiation Pattern of the Antenna at 5.0 – 5.9 GHz

