

# RFMAX ANTENNAS

## RDA-4G/5G-1-SSM

4G/5G/LTE Blade Omni Dipole Antenna



**T**he RDA-4G/5G-1-SSM is a high-performance, high-efficiency dipole antenna for 4G/LTE/5G with SMA connector. This is THE BEST cellular antenna for OEM's looking to pass any major carrier certification - including AT&T, Verizon, Sprint, T-Mobile, Rogers, Bell & Telus. The RDA-4G/5G-1-SSM is designed for frequencies from 617-6000 MHz 4G/LTE /5G and offers 1.2 - 5.5 dBi gain with efficiencies of 45-70% for maximizing cellular performance on your device.



- 4G/LTE/5G (617-960/1430-3500/3500-6000 MHz)
- Gain: 1.2 - 5.5 dBi
- New Band 71 (617-698 MHz), CBRS Bands 42, 48 (3.4-3.7 GHz)
- Max Power: 3 Watts
- Size (Dia x H): 30.5 x 229 mm
- Connector: SMA-Male
- Rating: IP65
- Color: Black
- Mounting: 90 degree rotating arm



### APPLICATIONS:

- Cellular Gateways, Modems, and Radios
- 2G/3G fallback compatibility
- 4G/LTE Radios
- 5G NR FR1 Gateways, Modems, and Radios
- Industrial IoT, Smart Home setups

## ELECTRICAL

Frequency Range with Gain	617 - 960 MHz	1.2 dBi
	1430 - 3500 MHz	2.5 dBi
	3500 - 6000 MHz	5.5 dBi
Peak Efficiency	617-960/3500-6000 Mhz	45-70%
Impedance	50 Ohm	
Radiation	Omnidirection	
Polarization	Vertical	

## ENVIRONMENTAL

Hazardous Substances	RoHS Compliant
Temperature	-40°C to 85°C Operating and Storage conformance to IEC 60068
Humidity (Non-Condensing)	5% to 96% Operating and Storage conformance to IEC 60068
Water Ingress	IP65
Military Spec	MIL-STD 810 conformance to vibration

## MECHANICAL

Dimensions	30.5 x 229 mm
Weight	0.07 lbs.
Color	Black
Connector	SMA-Male
Max Power	3 Watts

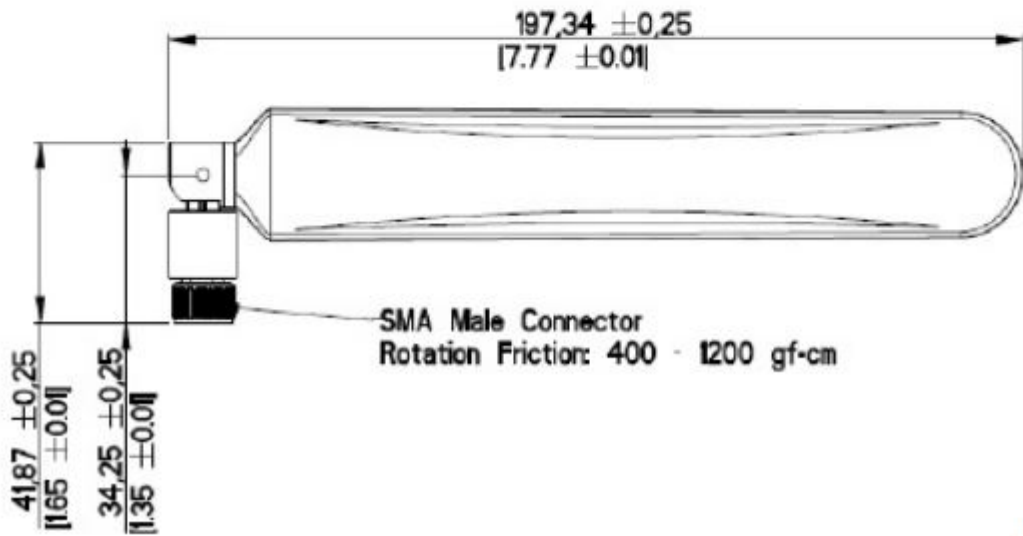
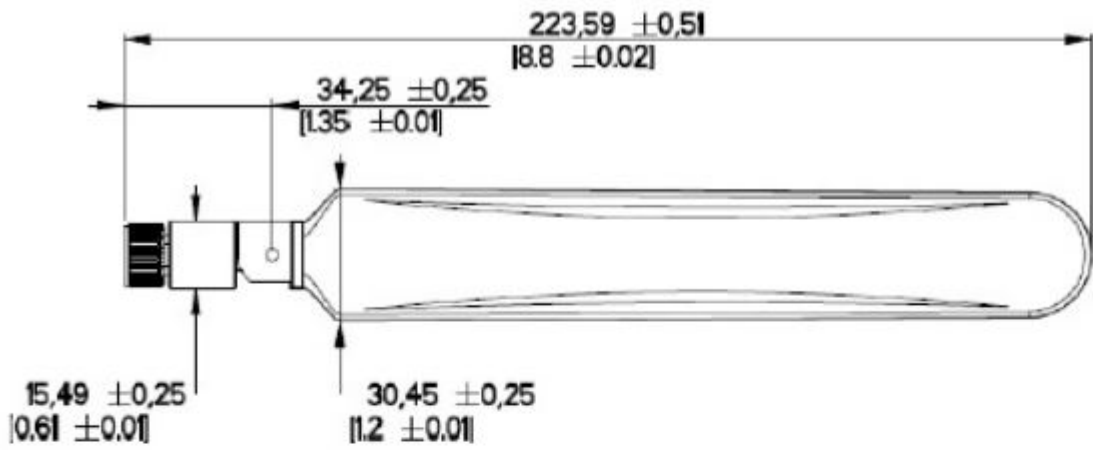
## MOUNTING

Rotating Arm	90 degree swivel dipole
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SMA MALE

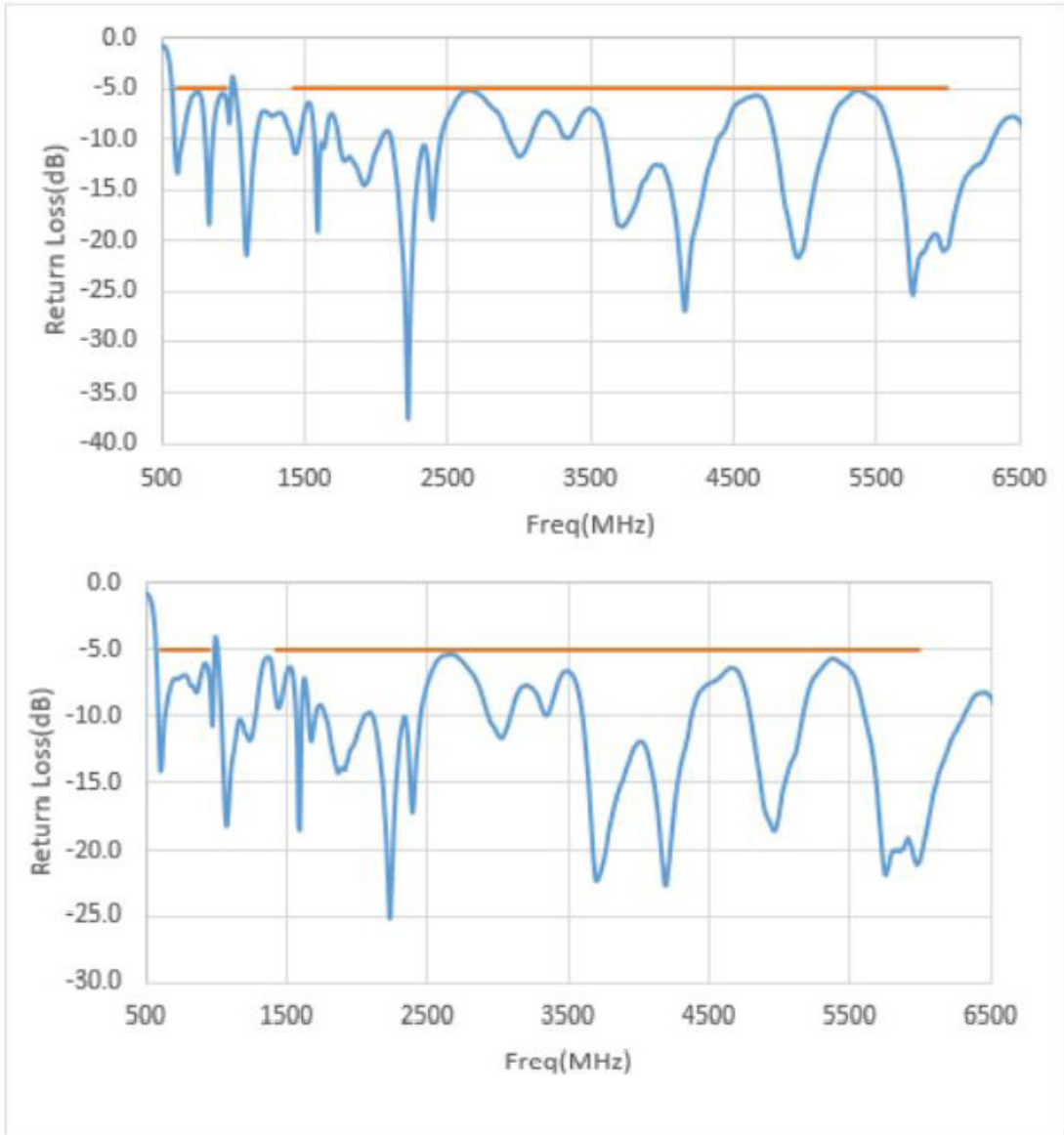
# GRAPHICAL DATA



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

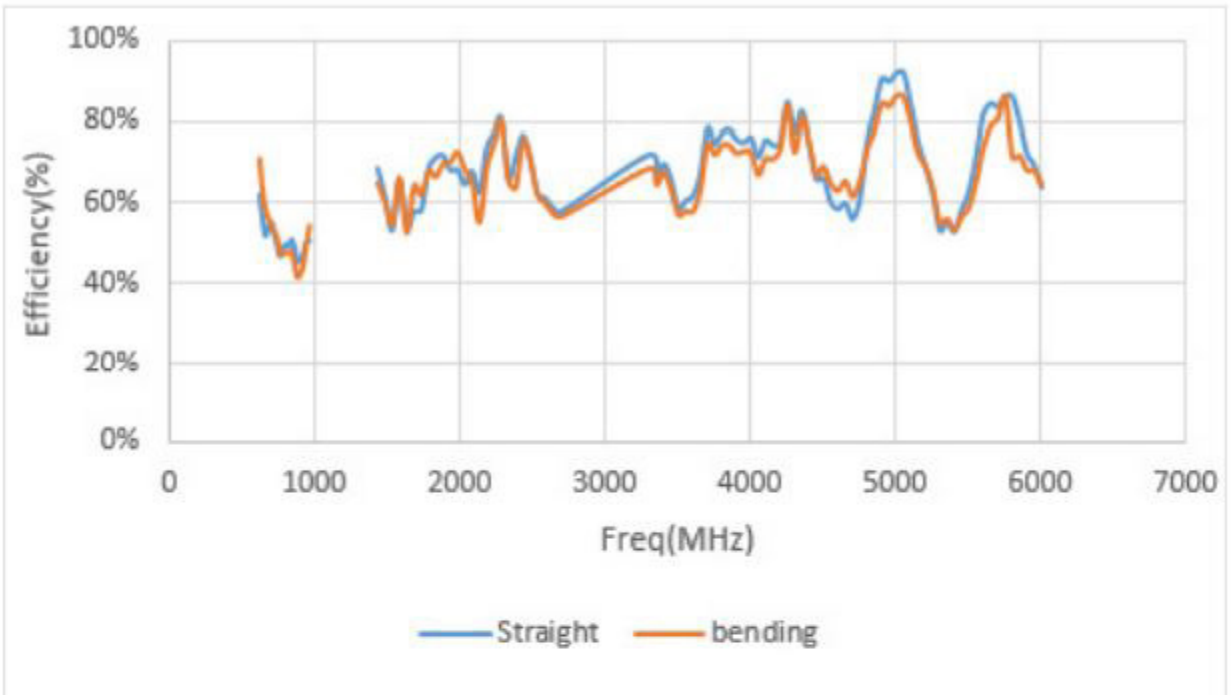
Return Loss

Straight

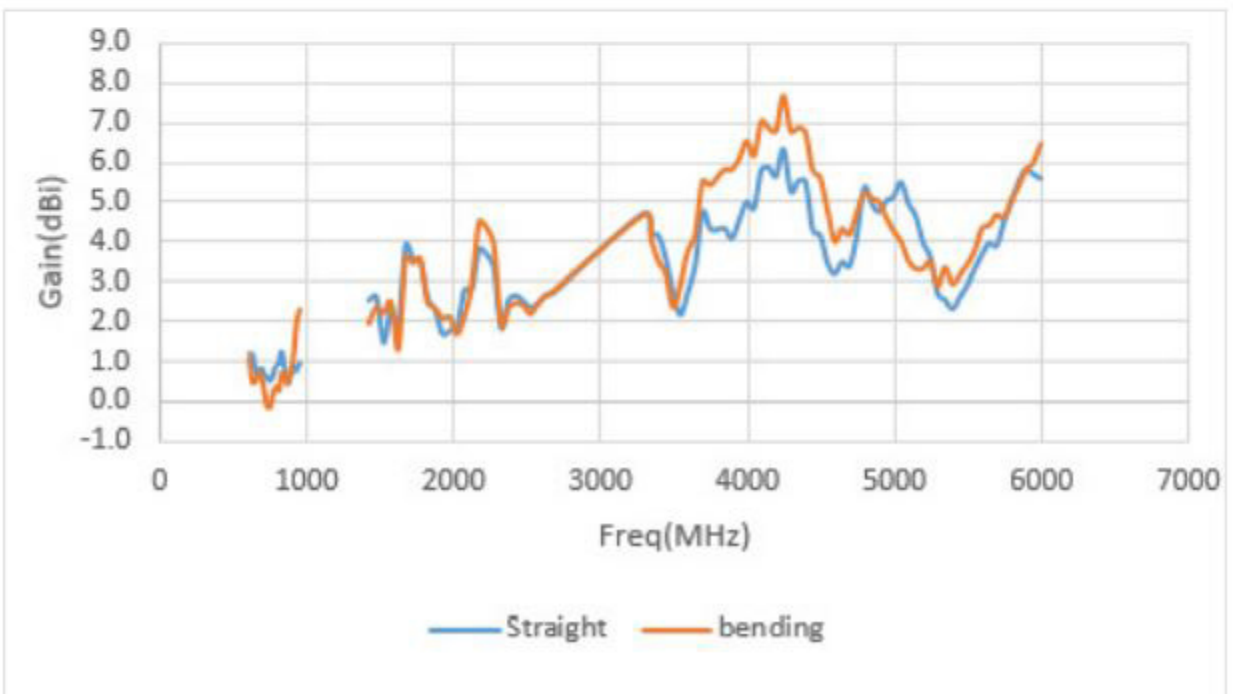


Bending

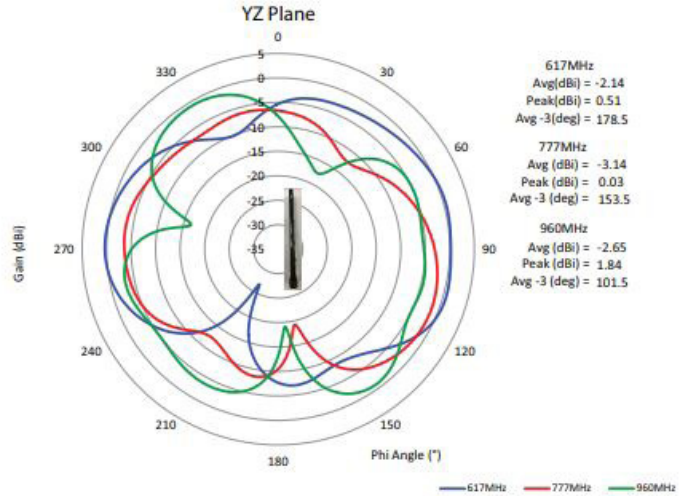
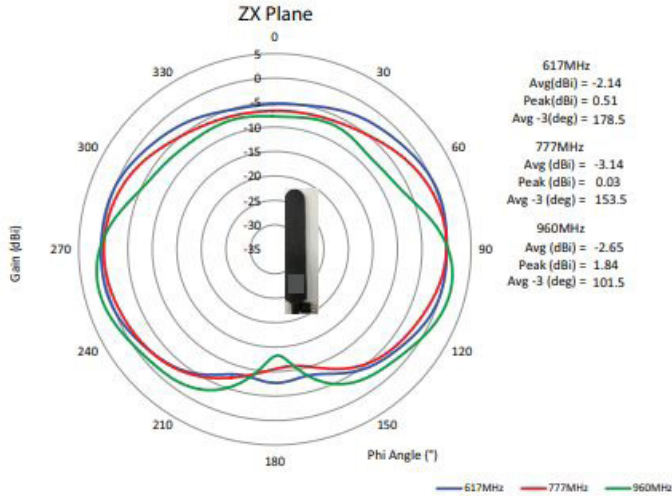
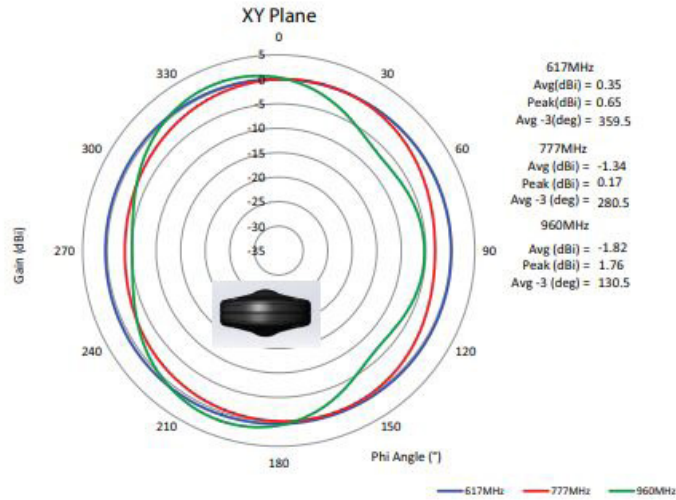
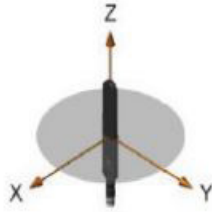
Average Efficiency



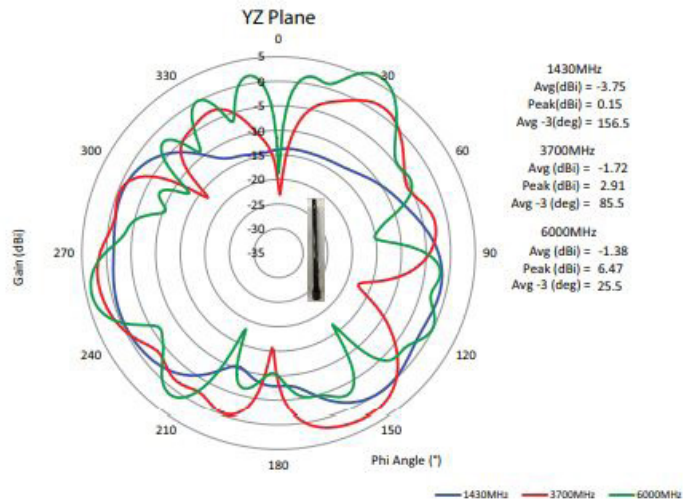
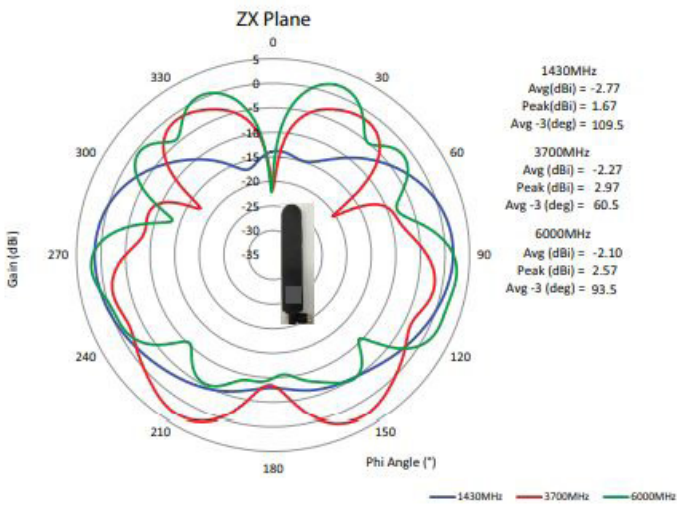
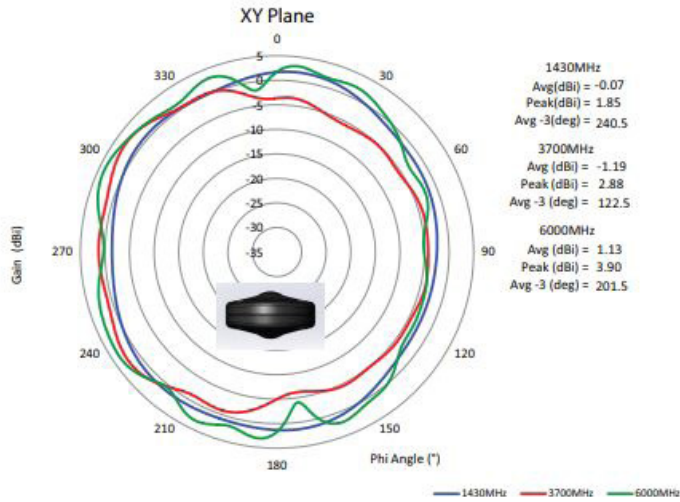
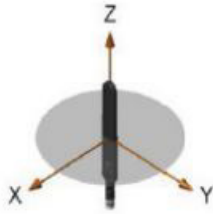
Peak Gain



Gain Plots (Bend)

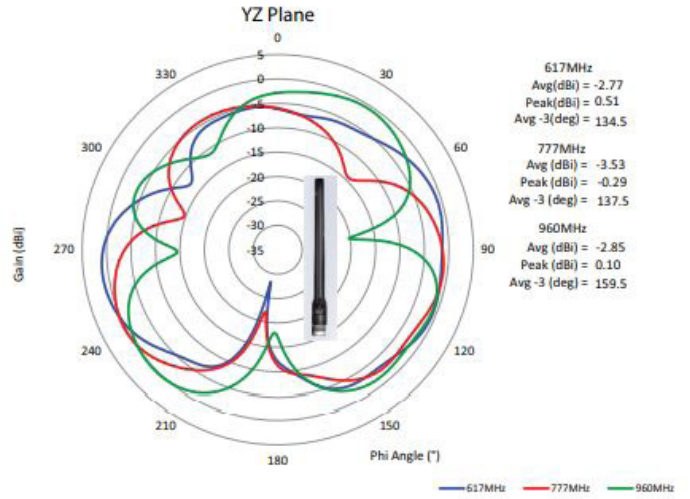
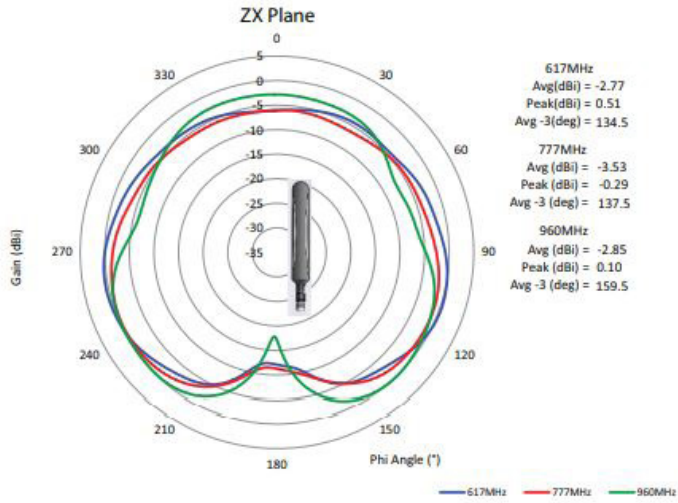
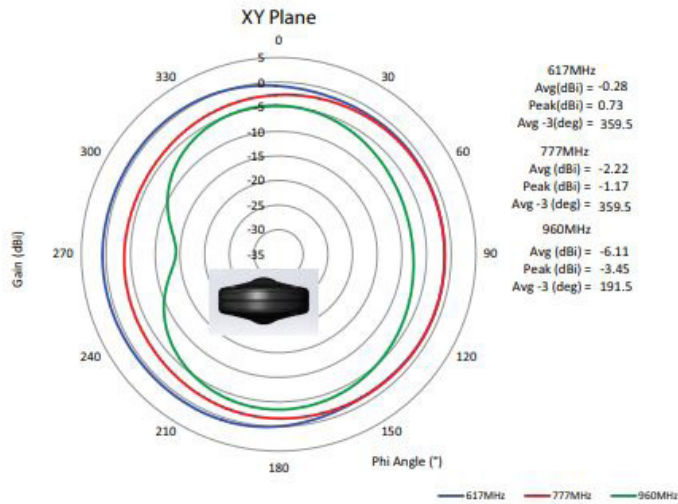
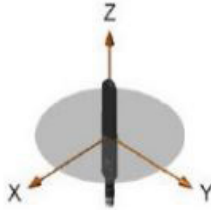


Gain Plots (Bend)





Gain Plots (Straight)





Gain Plots (Straight)

