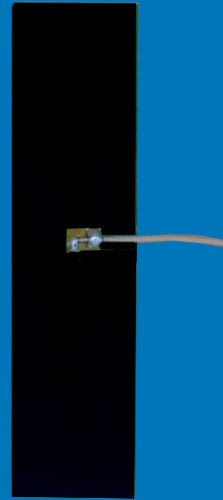




## 4G DIPOLE ANTENNA

### MAIN FEATURES:

- Wide band
- Adhesive mount
- No ground plane required
- RoHS Compliant
- Good Efficiency
- Indoor use



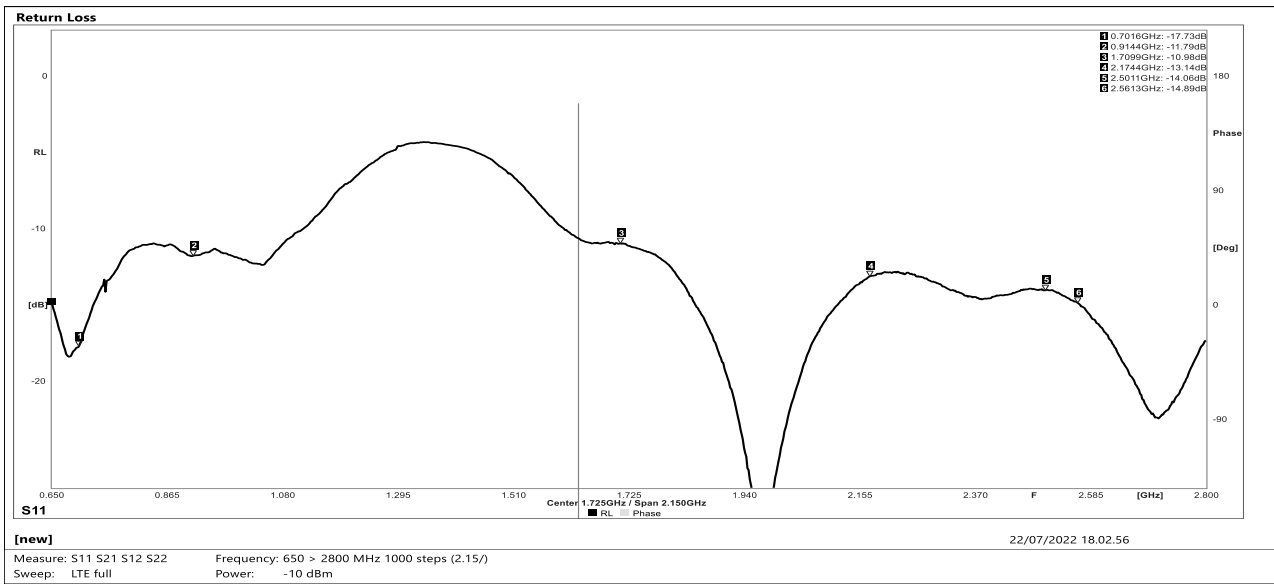
## LTE 4G Frequency Bands

B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B48, B49, B52, B53, B65, B66, B68, B70, B85

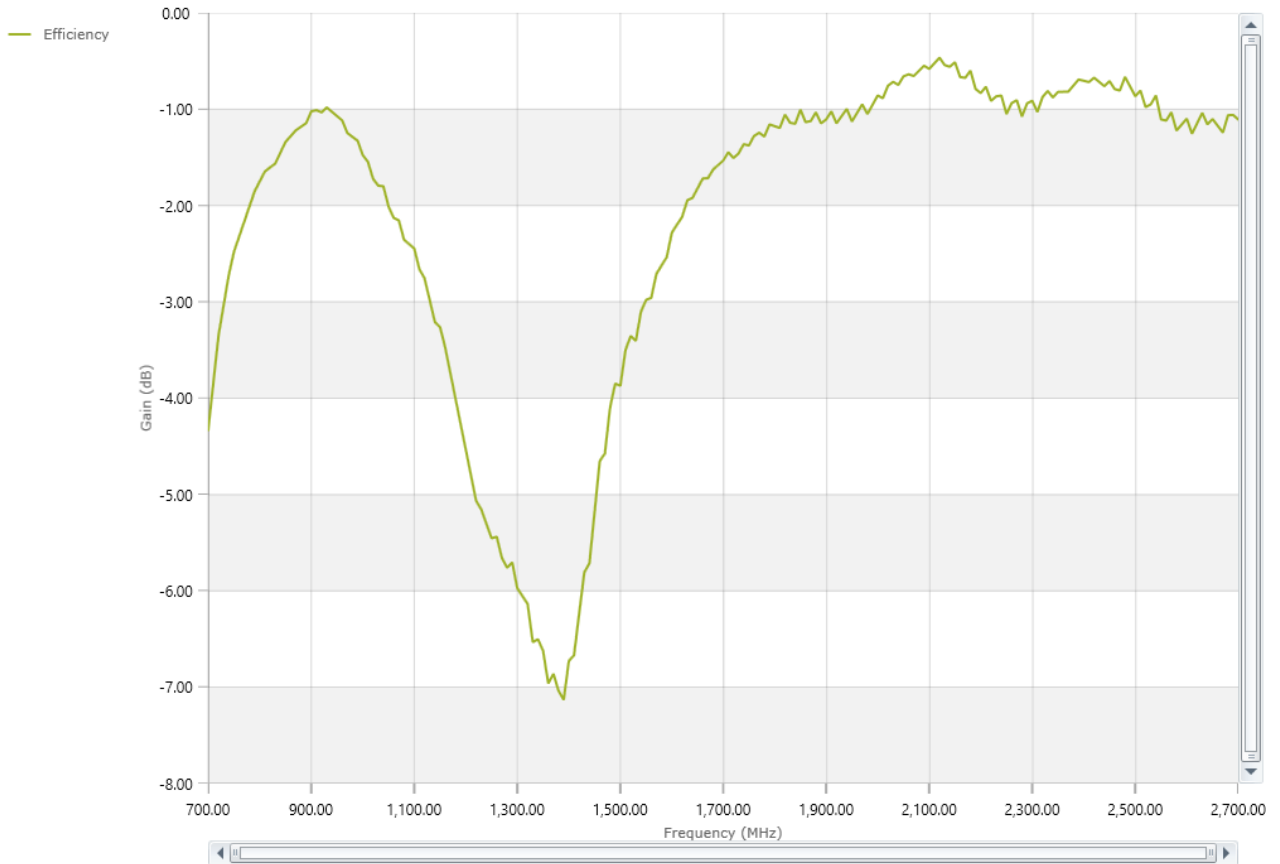
## Parameter

<b>Dimension</b>	120x30x0.5 mm
<b>Operating Temperature</b>	-20/70 °C
<b>Cable type</b>	Custom
<b>Cable length</b>	Custom
<b>Connector</b>	Custom
<b>Nominal impedance</b>	50 Ohm

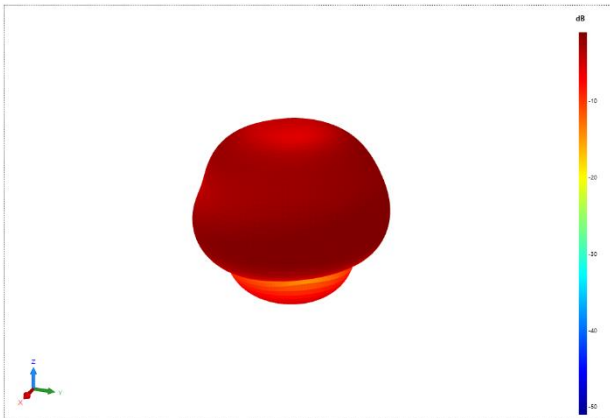
# S11 DIAGRAM



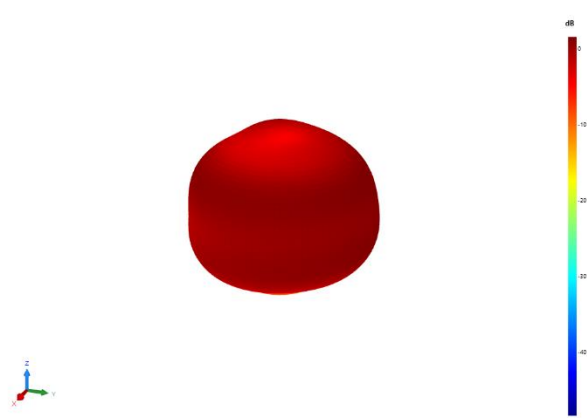
# EFFICIENCY DIAGRAM (dB)



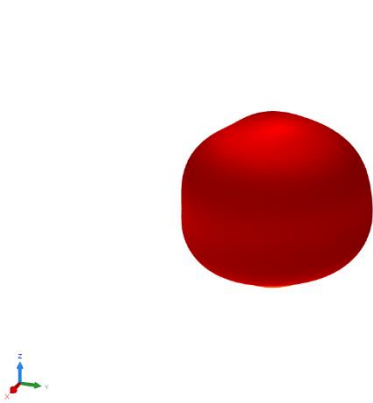
# 3D PATTERNS



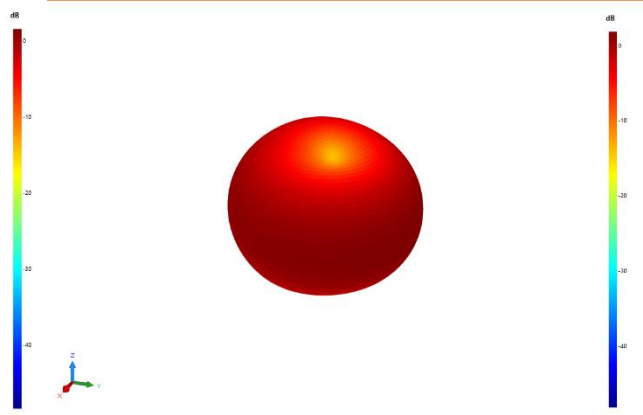
700 MHz



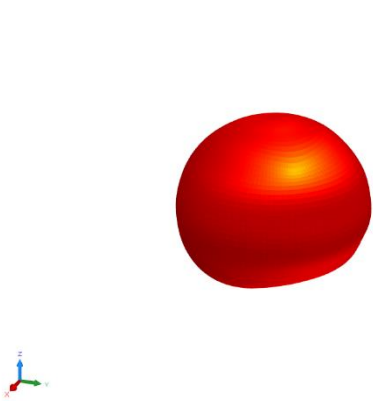
800 MHz



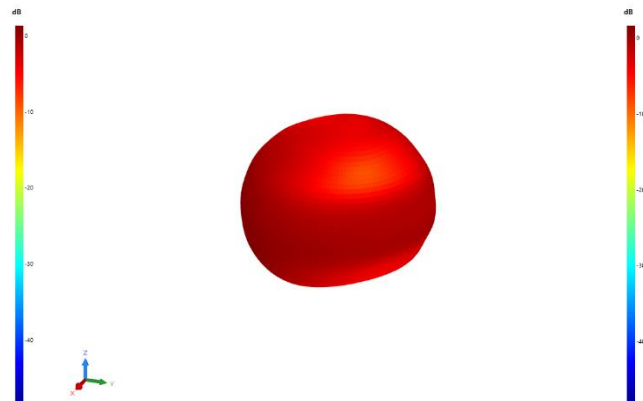
900 MHz



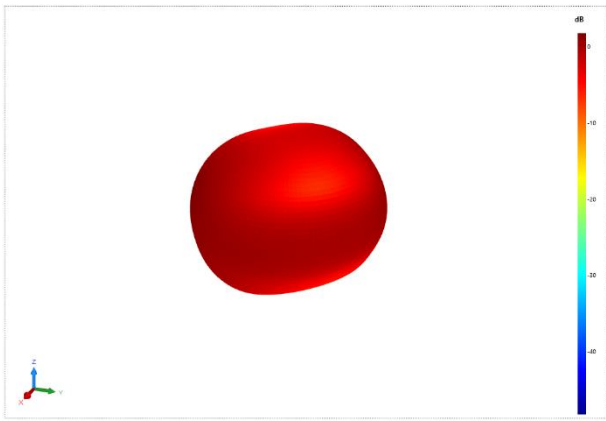
960 MHz



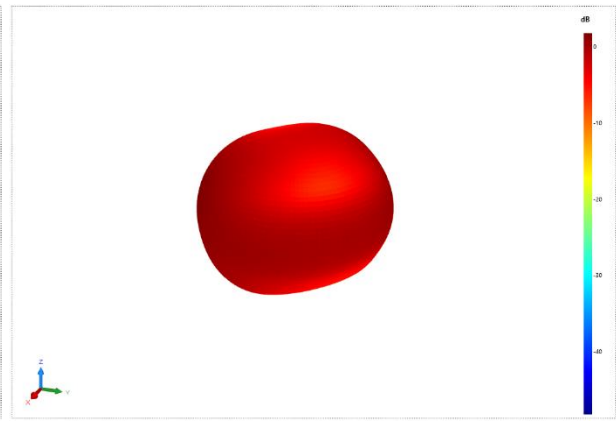
1710 MHz



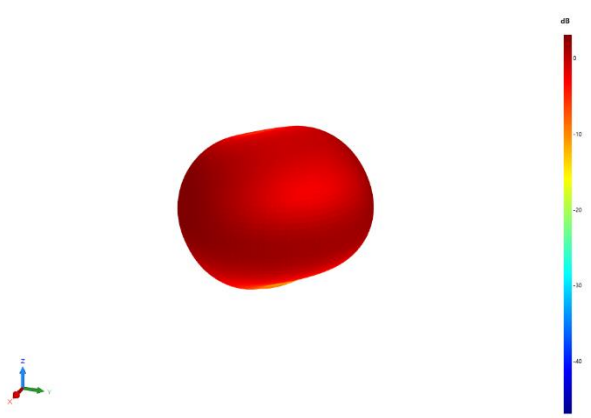
1800 MHz



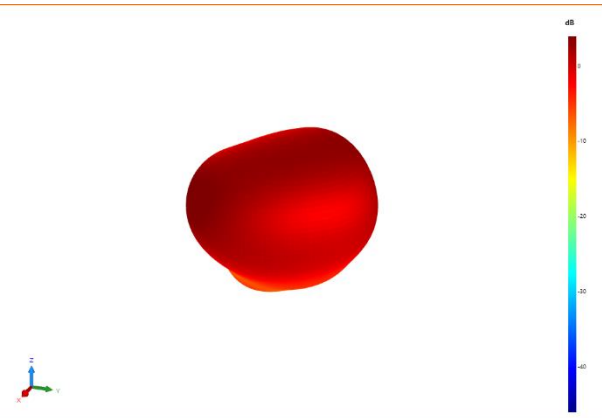
1900 MHz



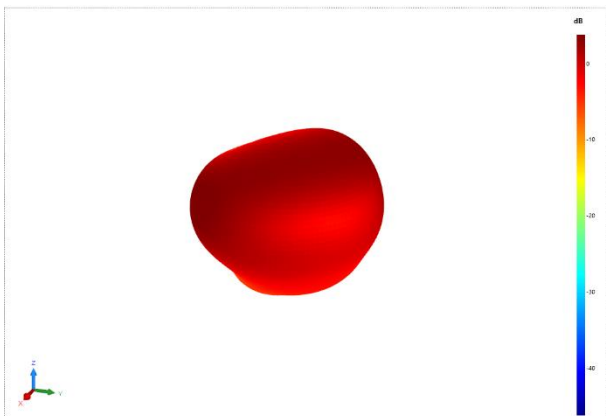
2000 MHz



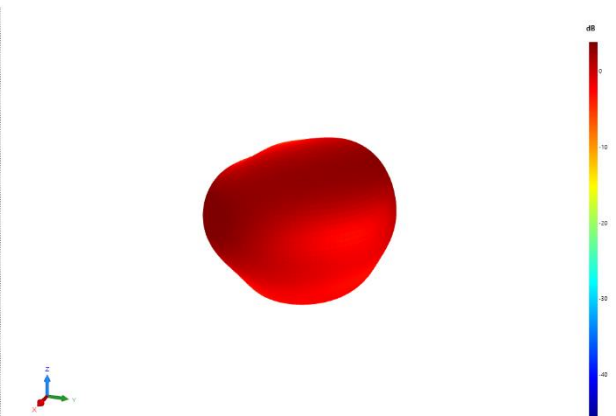
2100 MHz



2500 MHz



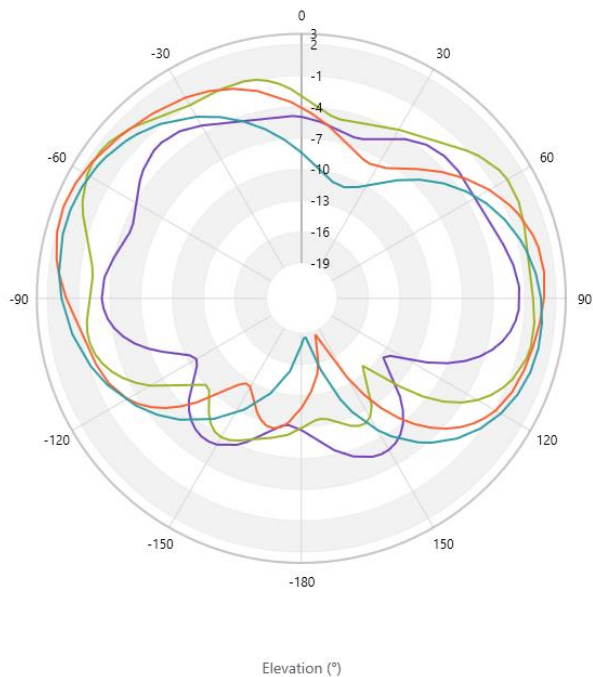
2600 MHz



2700 MHz

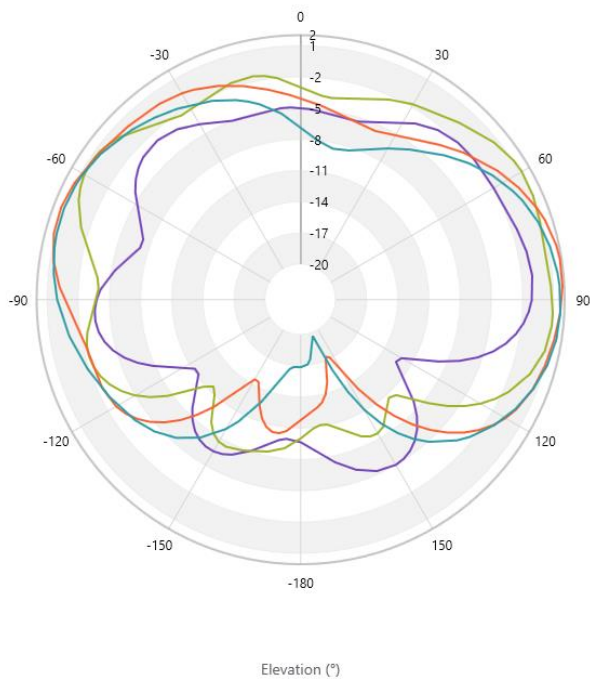
# POLAR PATTERNS

- 700 MHz 0° E Total
- 800 MHz 0° E Total
- 900 MHz 0° E Total
- 990 MHz 0° E Total



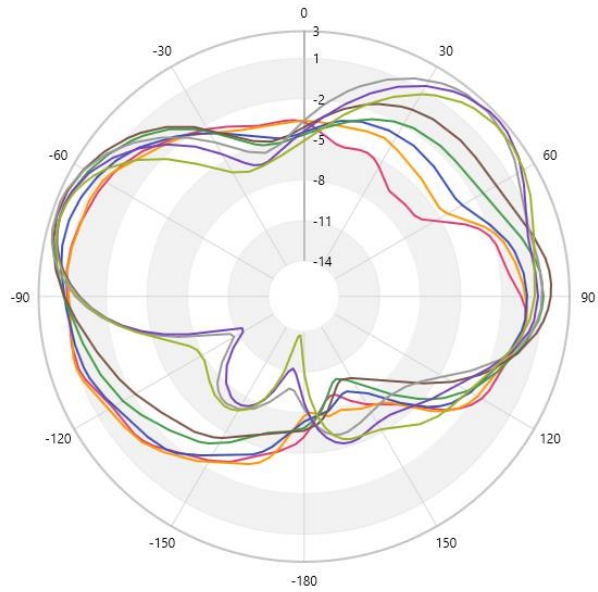
## 700-960 MHz ELEVATION 0°

- 700 MHz 90° E Total
- 800 MHz 90° E Total
- 900 MHz 90° E Total
- 960 MHz 90° E Total



## 700-960 MHz ELEVATION 90°

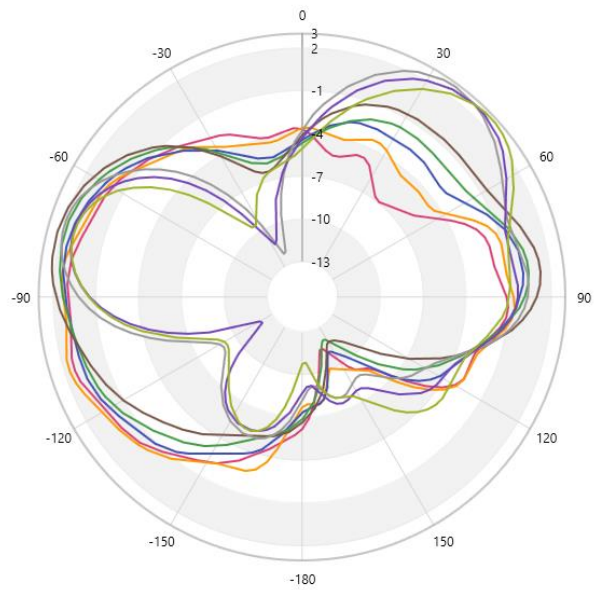
- 1710 MHz 0 ° E Total
- 1800 MHz 0 ° E Total
- 1900 MHz 0 ° E Total
- 2000 MHz 0 ° E Total
- 2100 MHz 0 ° E Total
- 2500 MHz 0 ° E Total
- 2600 MHz 0 ° E Total
- 2700 MHz 0 ° E Total



Elevation (°)

## 1710-2700 MHz ELEVATION 0°

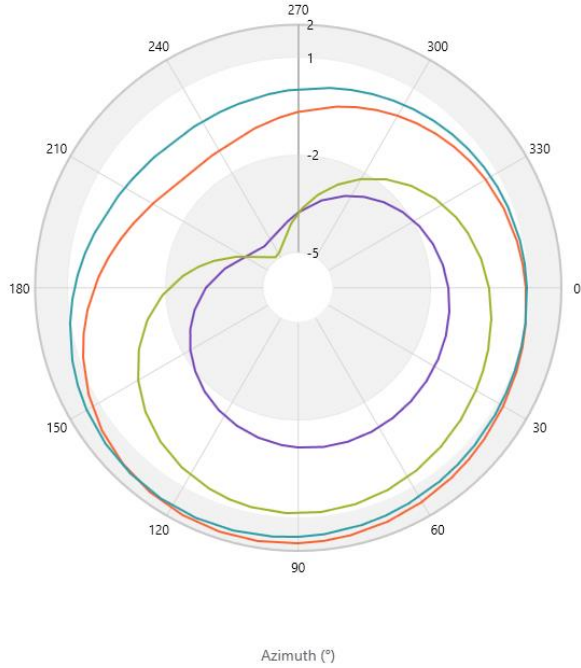
- 1710 MHz 90 ° E Total
- 1800 MHz 90 ° E Total
- 1900 MHz 90 ° E Total
- 2000 MHz 90 ° E Total
- 2100 MHz 90 ° E Total
- 2500 MHz 90 ° E Total
- 2600 MHz 90 ° E Total
- 2700 MHz 90 ° E Total



Elevation (°)

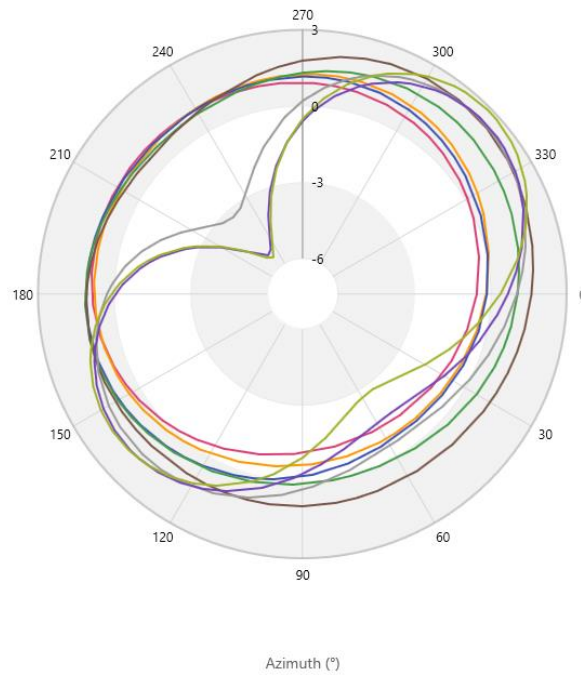
## 1710-2700 MHz ELEVATION 90 °

- 700 MHz 90 ° E Total
- 800 MHz 90 ° E Total
- 900 MHz 90 ° E Total
- 960 MHz 90 ° E Total



## 700-960 MHz AZIMUTH 90°

- 1710 MHz 90 ° E Total
- 1800 MHz 90 ° E Total
- 1900 MHz 90 ° E Total
- 2000 MHz 90 ° E Total
- 2100 MHz 90 ° E Total
- 2500 MHz 90 ° E Total
- 2600 MHz 90 ° E Total
- 2700 MHz 90 ° E Total



## 1710-2700 MHz AZIMUTH 90°

- Patterns are obtained with a sample with 300mm long coaxial line

## COAXIAL LINE CHARACTERISTICS

	Dielectric strength (Kv/Minute)	Insulation Resistance (MOhm.km)	Impedance (Ohm)	Capacitance (pF/m)	Speed (%)
Rg178	1.0	>3000	50+/-2	95.8+/-5	0.695

## ATTENUATION CONSTANT dB/100m

	1000 MHz	1800 MHz	2400 MHz	5200 MHz	6000 MHz
Rg178	18.0	26.0	29.0	45.0	49.0