

Description: 824-960/1710-2170MHz Right Angle Stick Antenna

Series: External Antenna

PART NUMBER: W1903

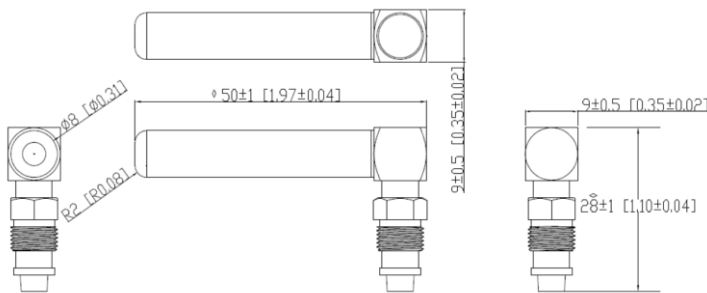


Features:

- Penta band Cell Band Antenna
- Gain 0dBi
- Power Rating 2W
- Length 50mm
- Connector Right Angle FME Female
- RoHS Compliant

Applications:

- Indoor applications
- 2G, 3G, 4G Cellular
- IoT, M2M
- Metering
- Industry automation & controls
- Energy monitoring



All dimensions are in mm / inches

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ELECTRICAL SPECIFICATIONS

Frequency	824-960/1710-2170	MHz
Nominal Impedance	50	Ω
Return loss	-4.5	dB(max)
Average efficiency(824-960MHz)	27	%
Average efficiency(1710-2170MHz)	43	%
Peak Gain (824-960MHz)	0	dBi +/- 1 dB
Peak Gain (1710-2170MHz)	0	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	2	W

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MECHANICAL SPECIFICATIONS

Plastic radome	PC+PBT
Color	Black
Weight	12.05 g
Overall Length	50[1.97] MM[INCHES]

ENVIRONMENTAL SPECIFICATIONS

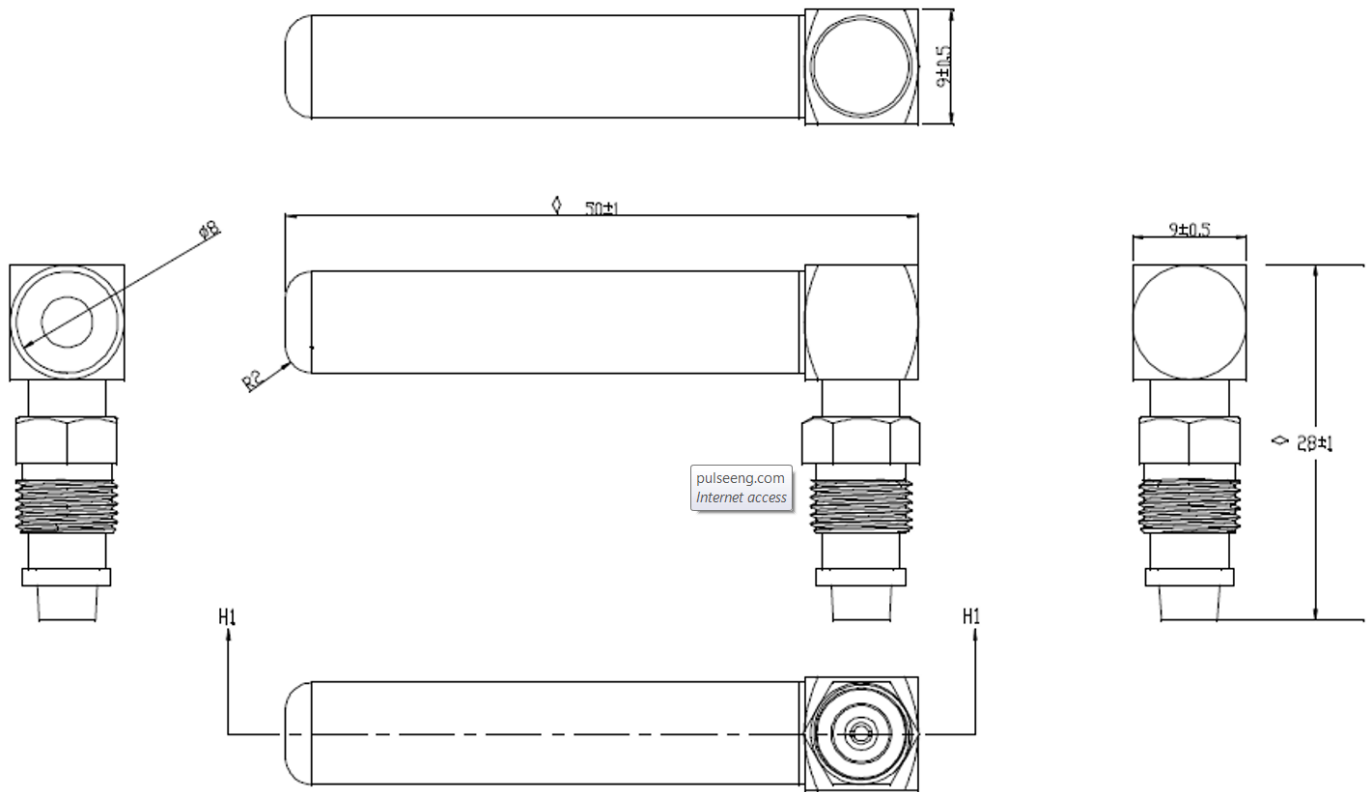
Operating temperature	-30/+75 ° C
Temperature cycling test	-35/+80 ° C
Salt mist	24 hours

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MECHANICAL DRAWING



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**Description: 824-960/1710-2170MHz Right
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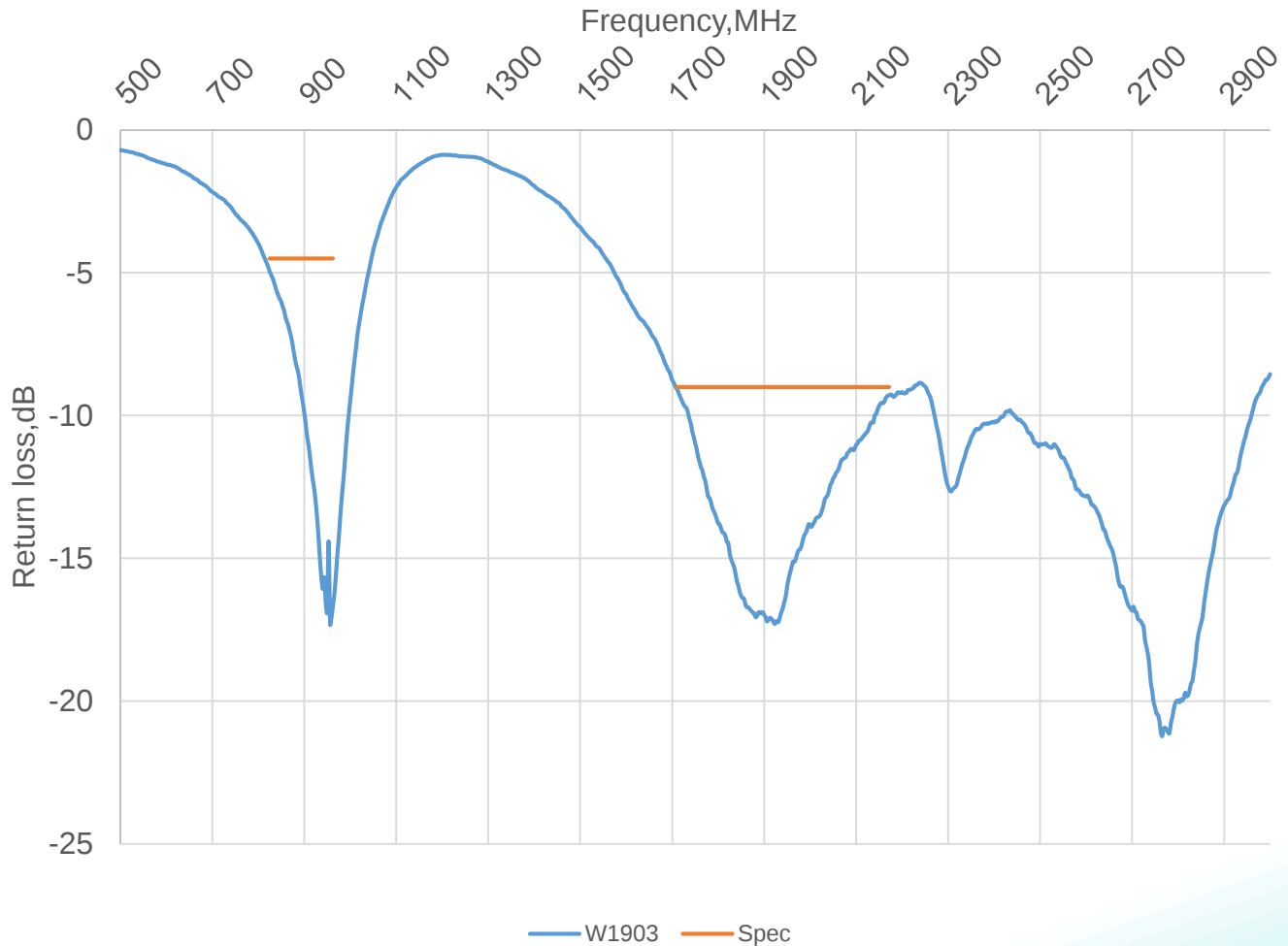
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CHARTS

Return loss

Return loss vs Frequency measured in free space
W1903 measured in PSU



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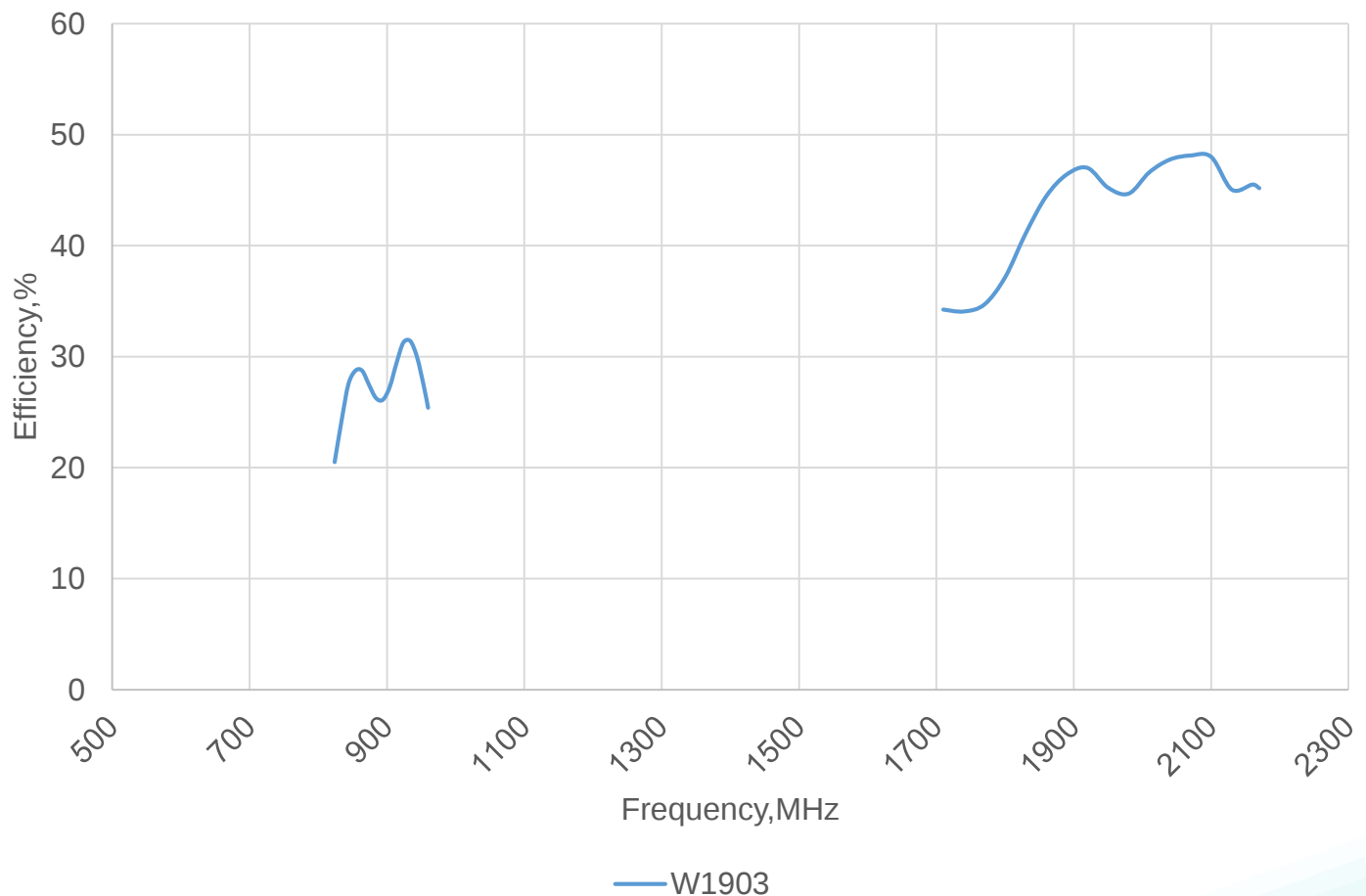
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CHARTS

Efficiency

Efficiency vs Frequency measured in free space
W1903 measured in PSU



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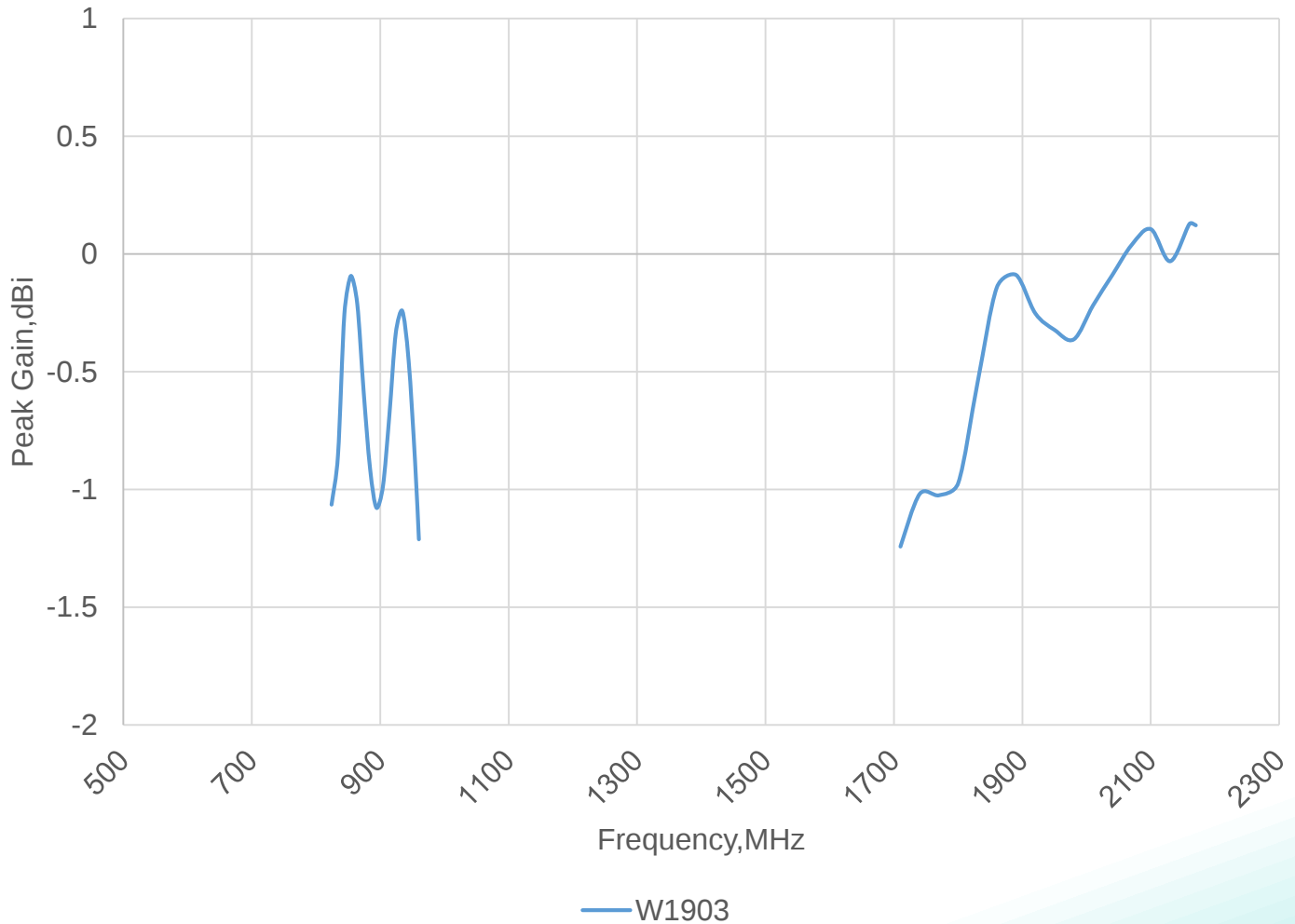
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space
W1903 measured in PSU



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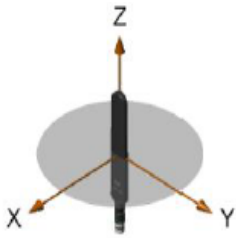
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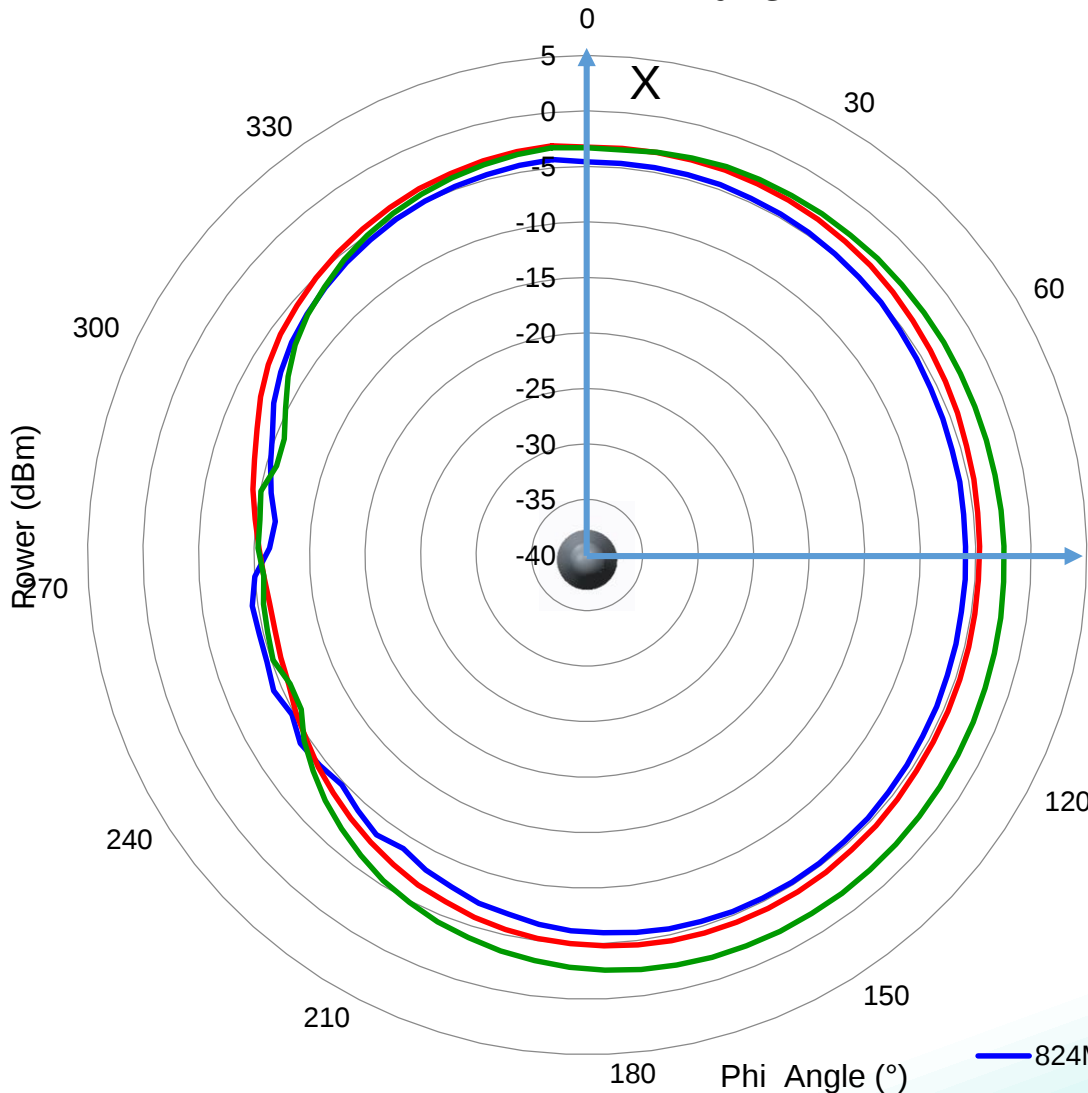
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CHARTS



Gain Plots

XY Plane



824MHz

Avg (dBi) = -6.58
Peak (dBi) = -4.26
Avg -3 (deg) = 255

849MHz

Avg (dBi) = -5.55
Peak (dBi) = -3
Avg -3 (deg) = 255

960MHz

Avg (dBi) = -4.72
Peak (dBi) = -1.84
Avg -3 (deg) = 235

— 824MHz — 849MHz — 960MHz

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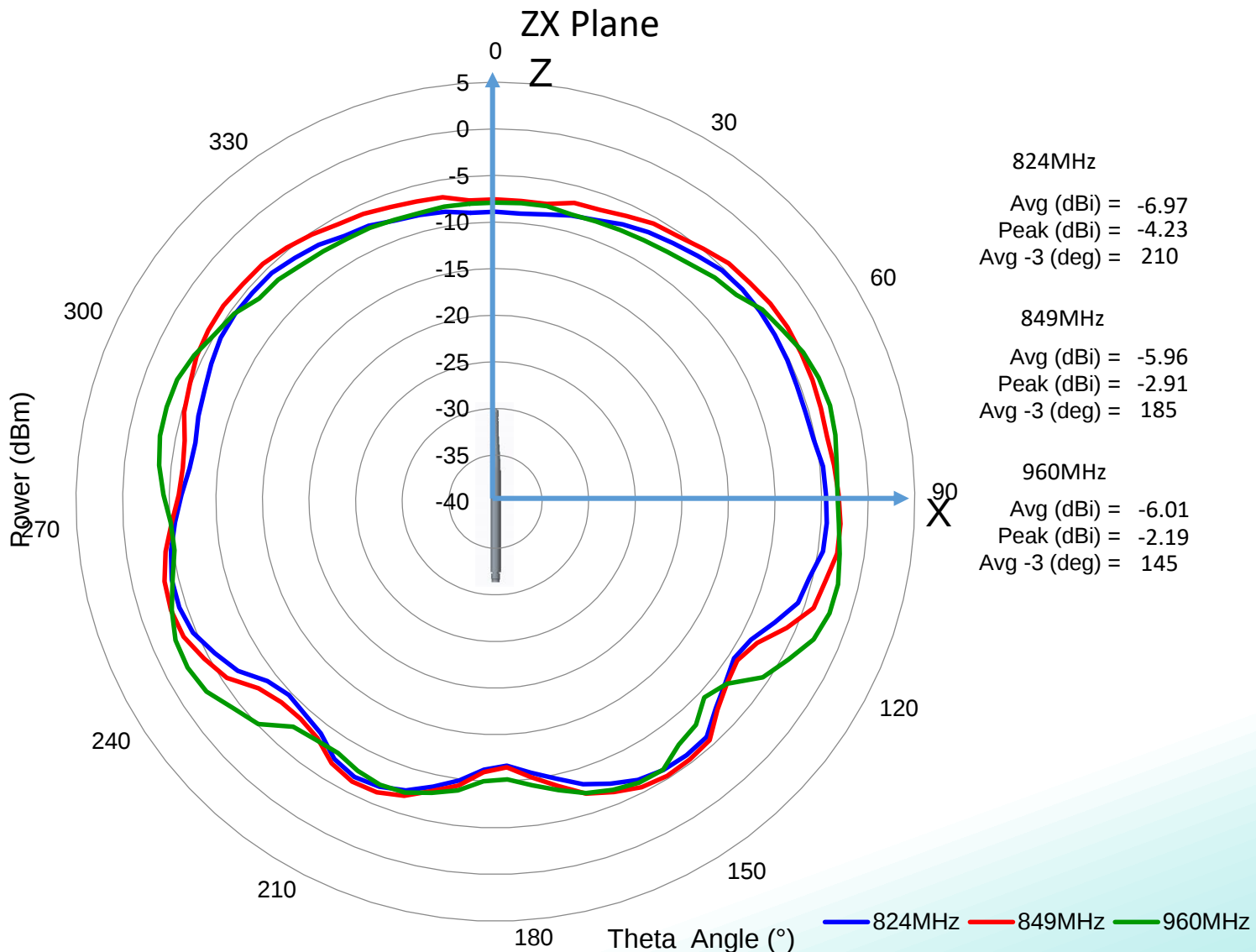
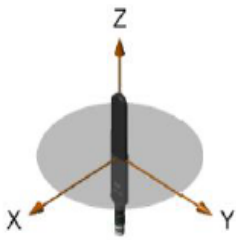
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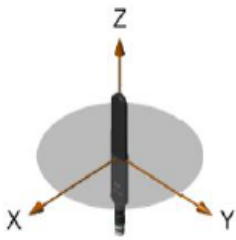
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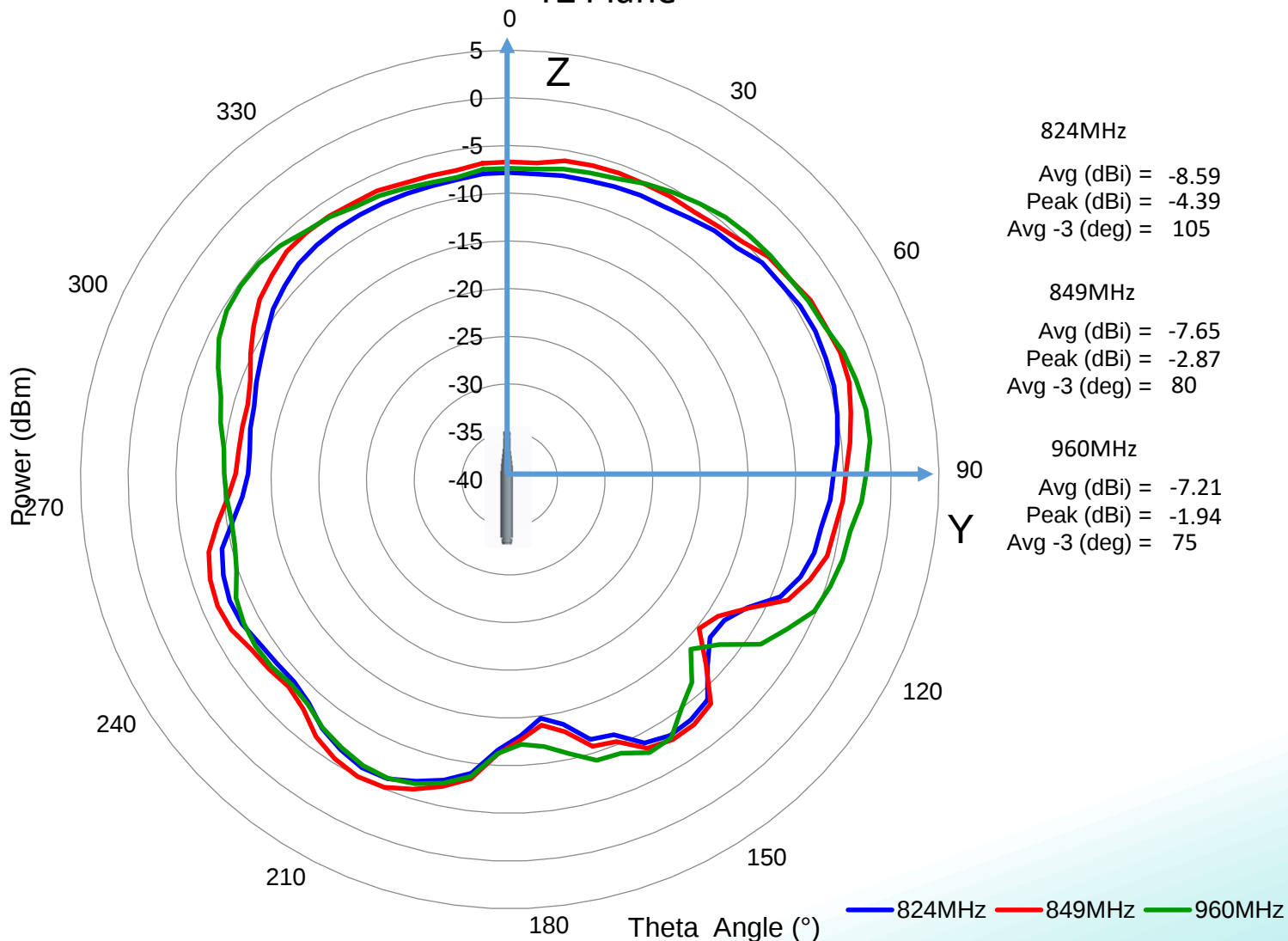
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CHARTS

Gain Plots



YZ Plane



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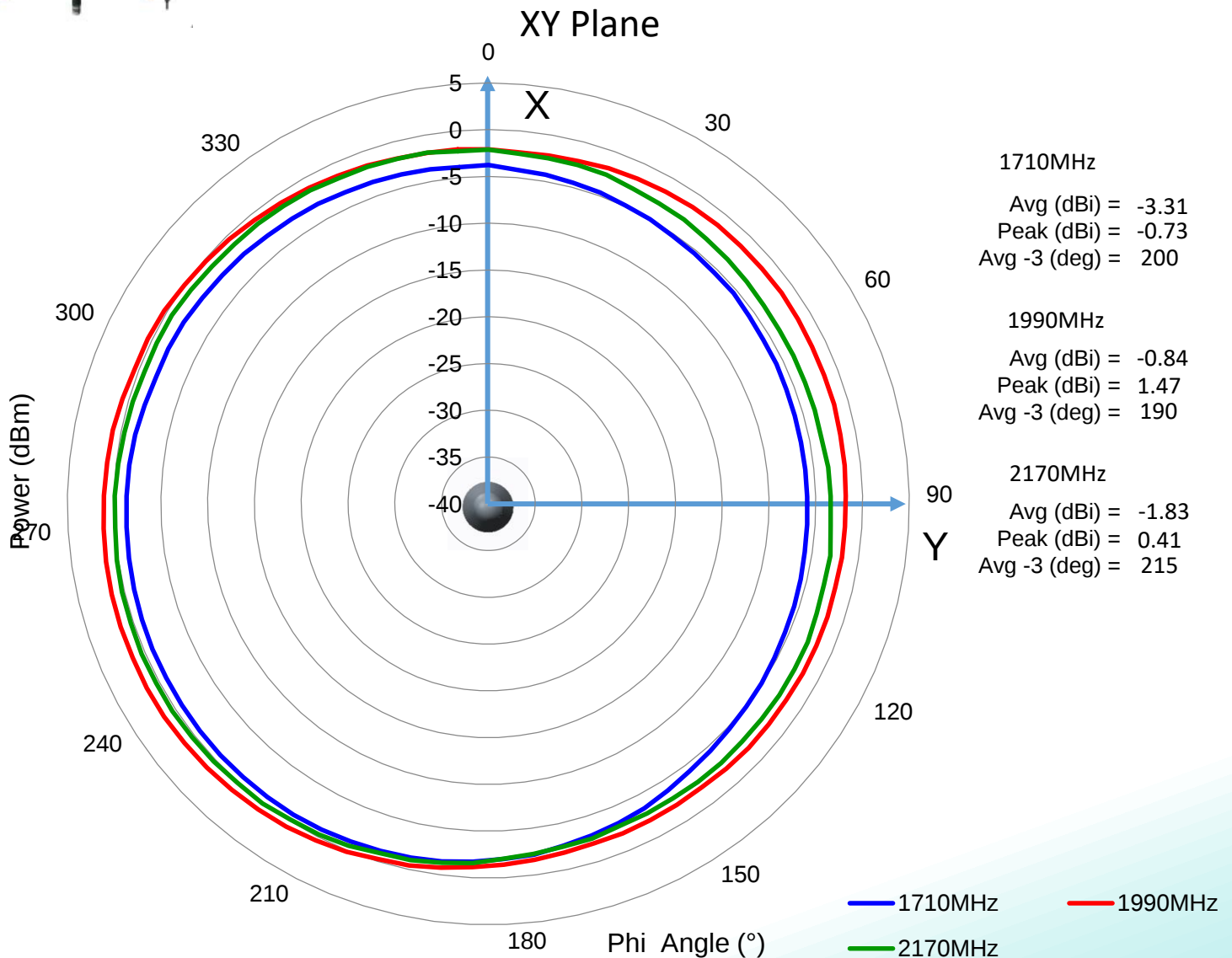
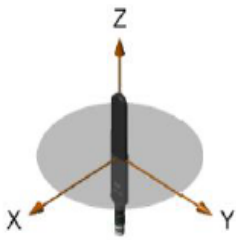
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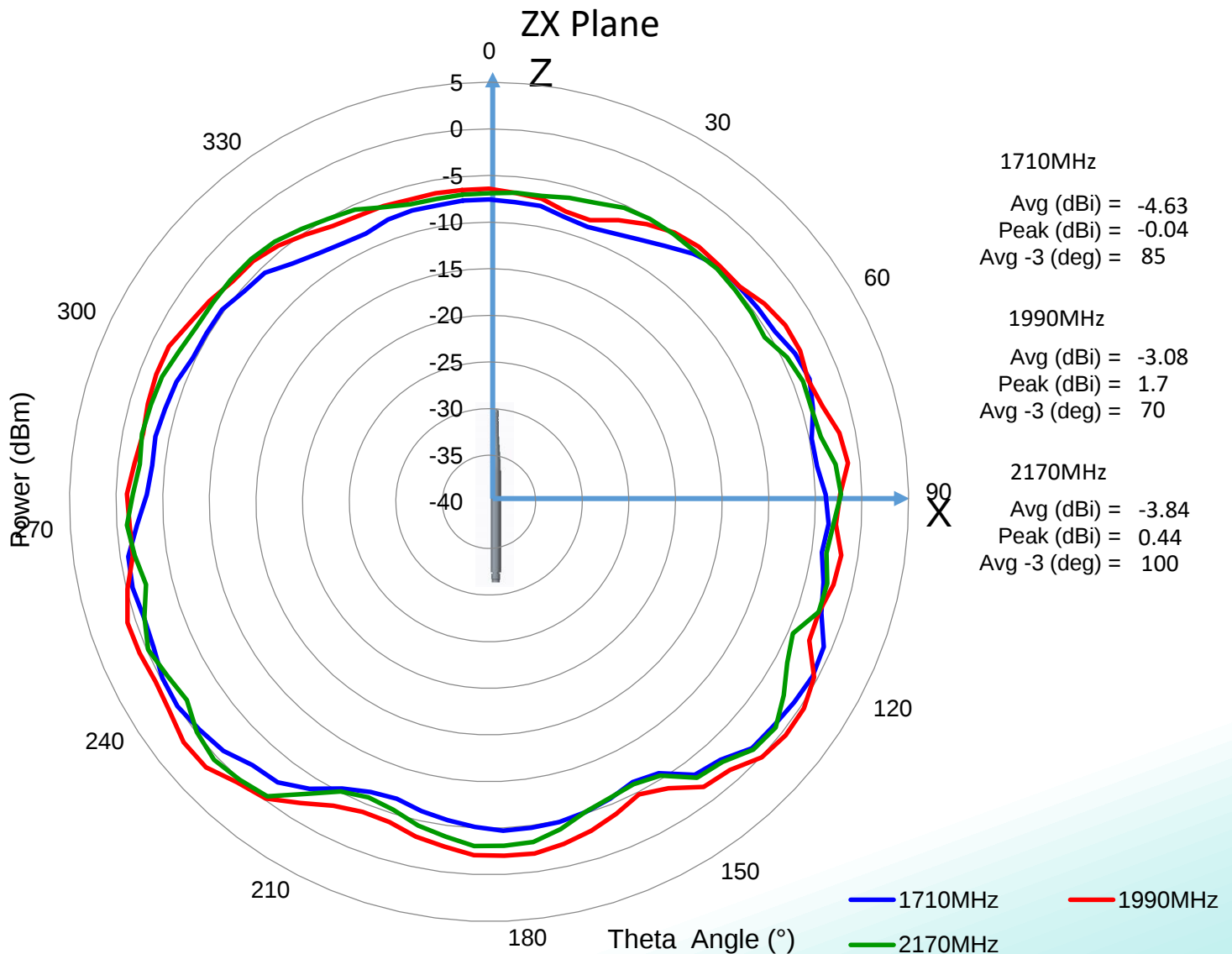
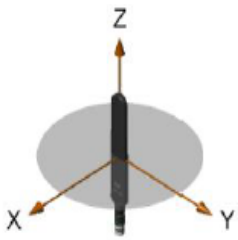
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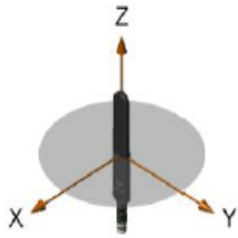
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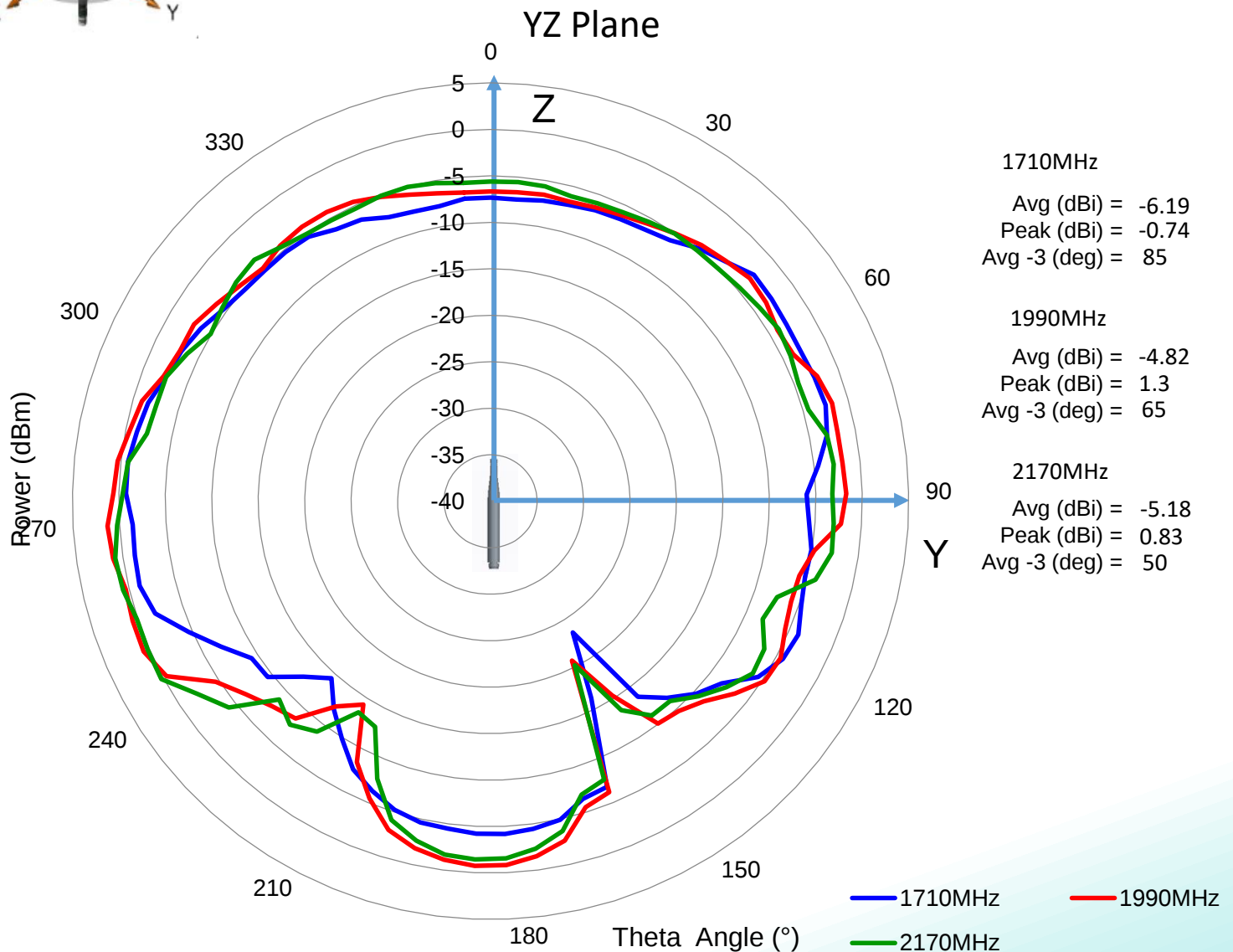
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PACKAGING

1PCS/PE bag
40PCS/Tray
8Tray/Carton box
320PCS/Carton box



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