PulseLARSEN Antennas

TECHNICAL DATA SHEET

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

Series: External Antenna

PART NUMBER: W1903

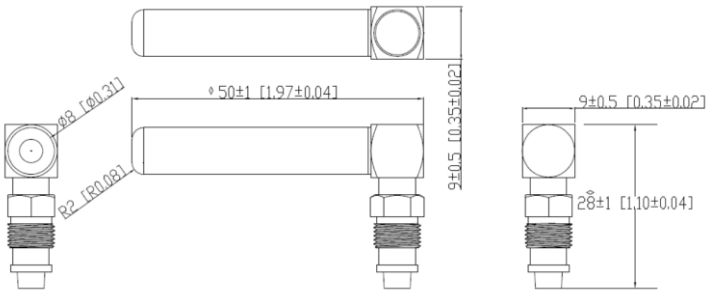


Features:

- 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

Issue: 1641

RoHS COMPLIANT

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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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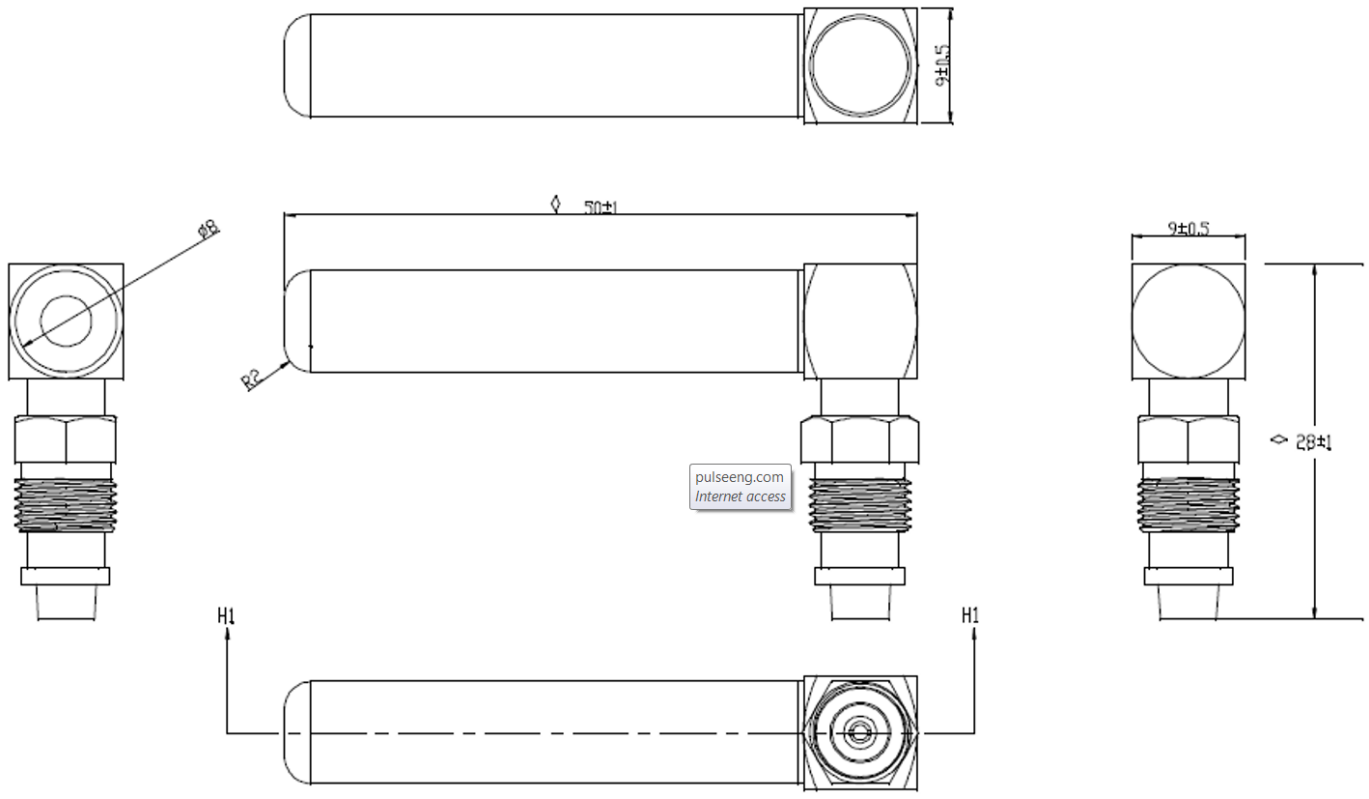
RoHS COMPLIANT

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MECHANICAL DRAWING



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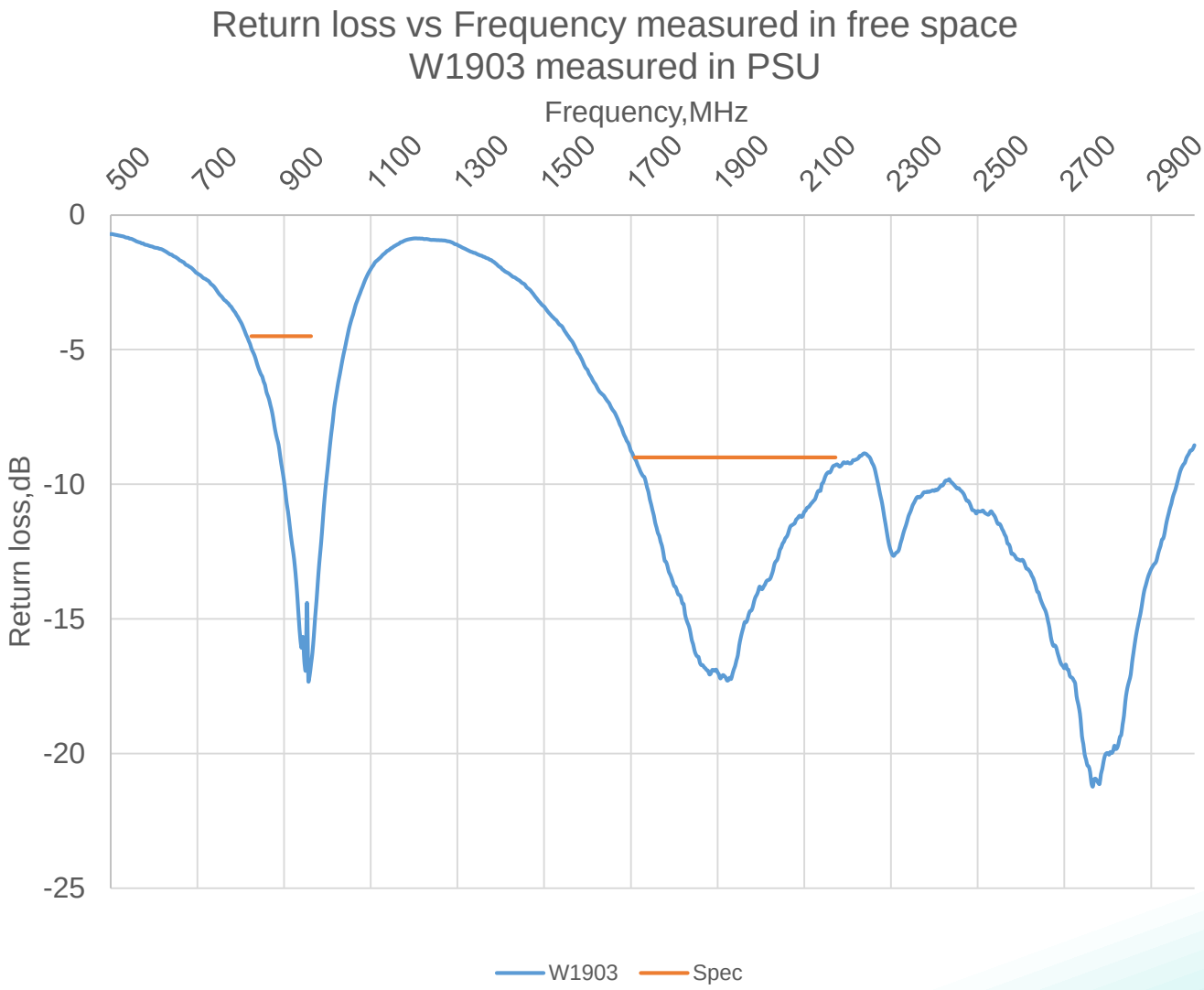
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CHARTS

Return loss



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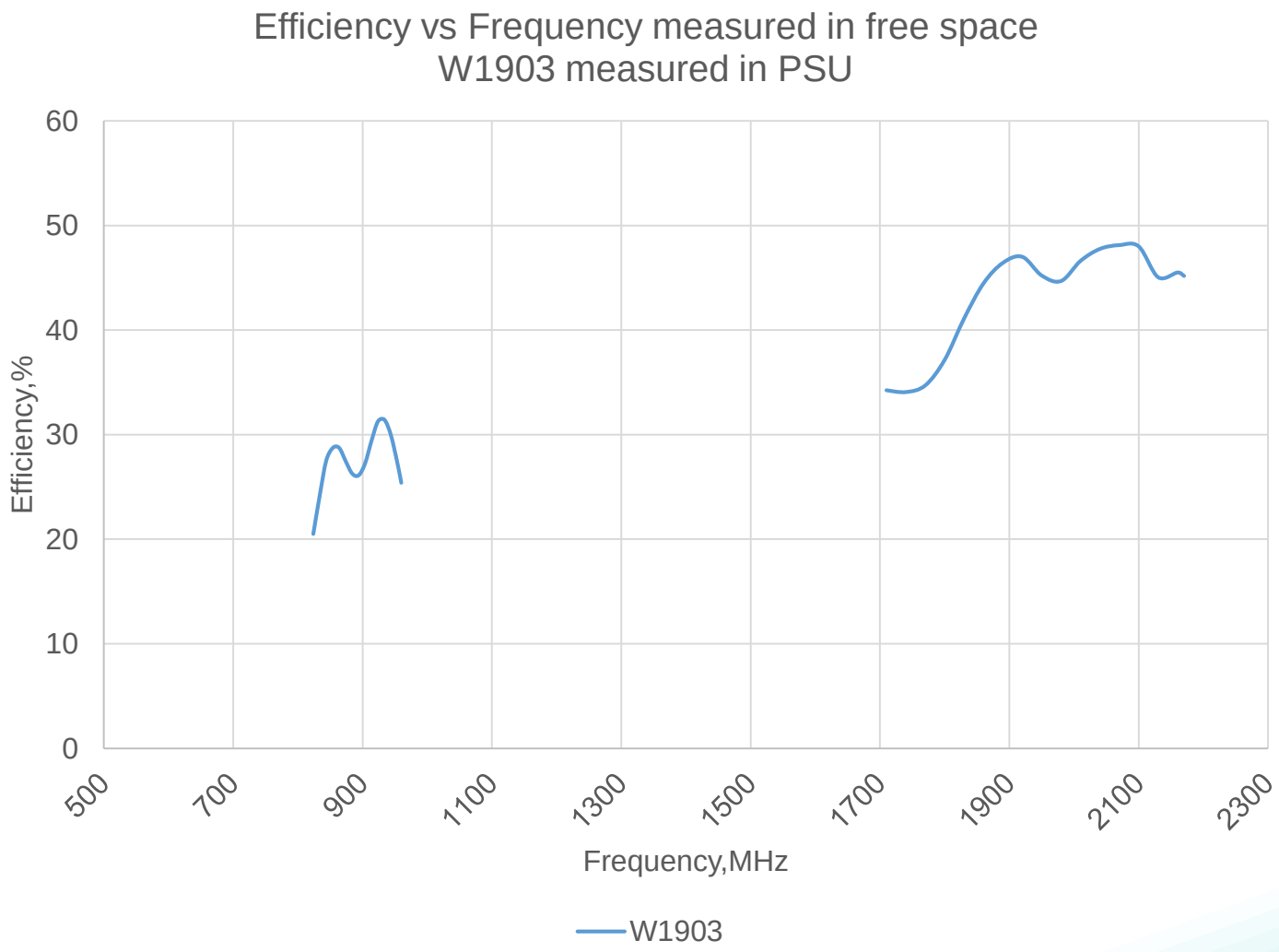
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CHARTS

Efficiency



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CHARTS

Peak Gain



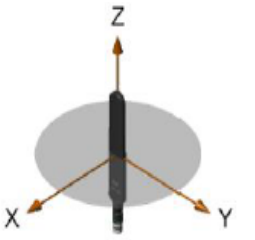
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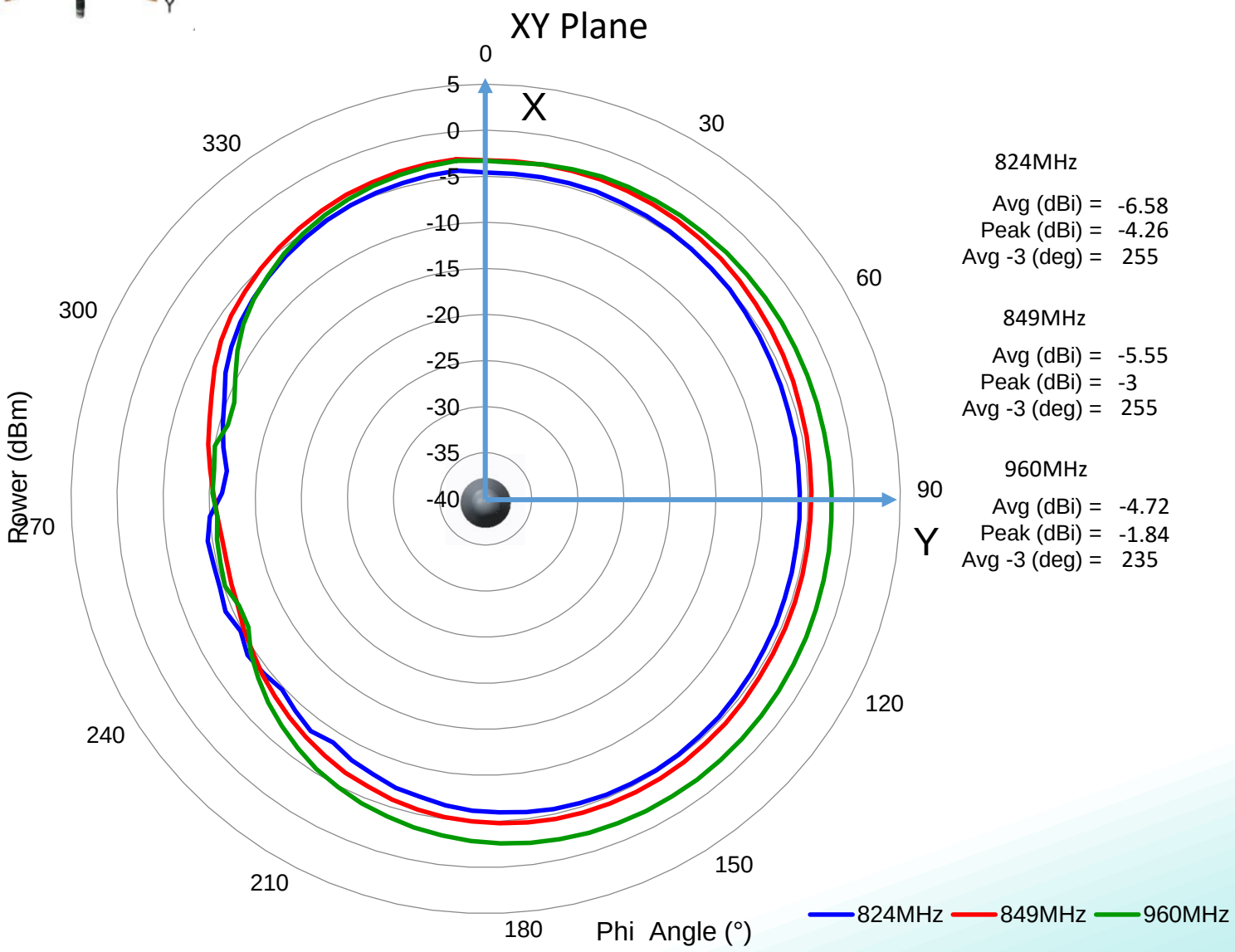
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CHARTS



Gain Plots



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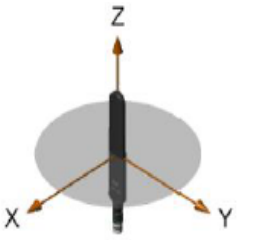
RoHS COMPLIANT

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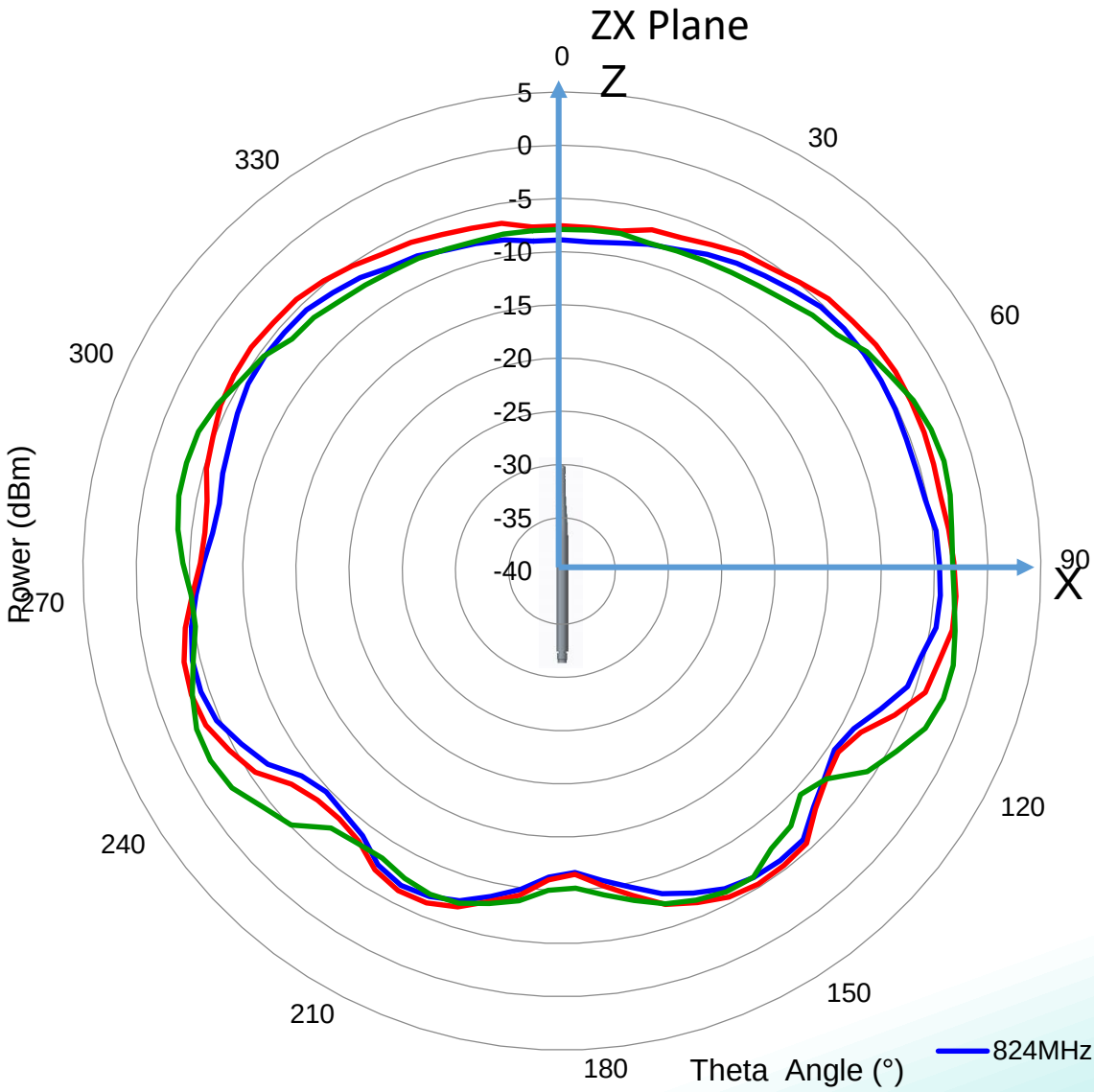
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CHARTS



Gain Plots



824MHz

Avg (dBi) = -6.97
Peak (dBi) = -4.23
Avg -3 (deg) = 210

849MHz

Avg (dBi) = -5.96
Peak (dBi) = -2.91
Avg -3 (deg) = 185

960MHz

Avg (dBi) = -6.01
Peak (dBi) = -2.19
Avg -3 (deg) = 145

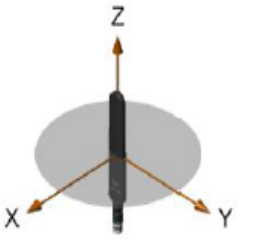
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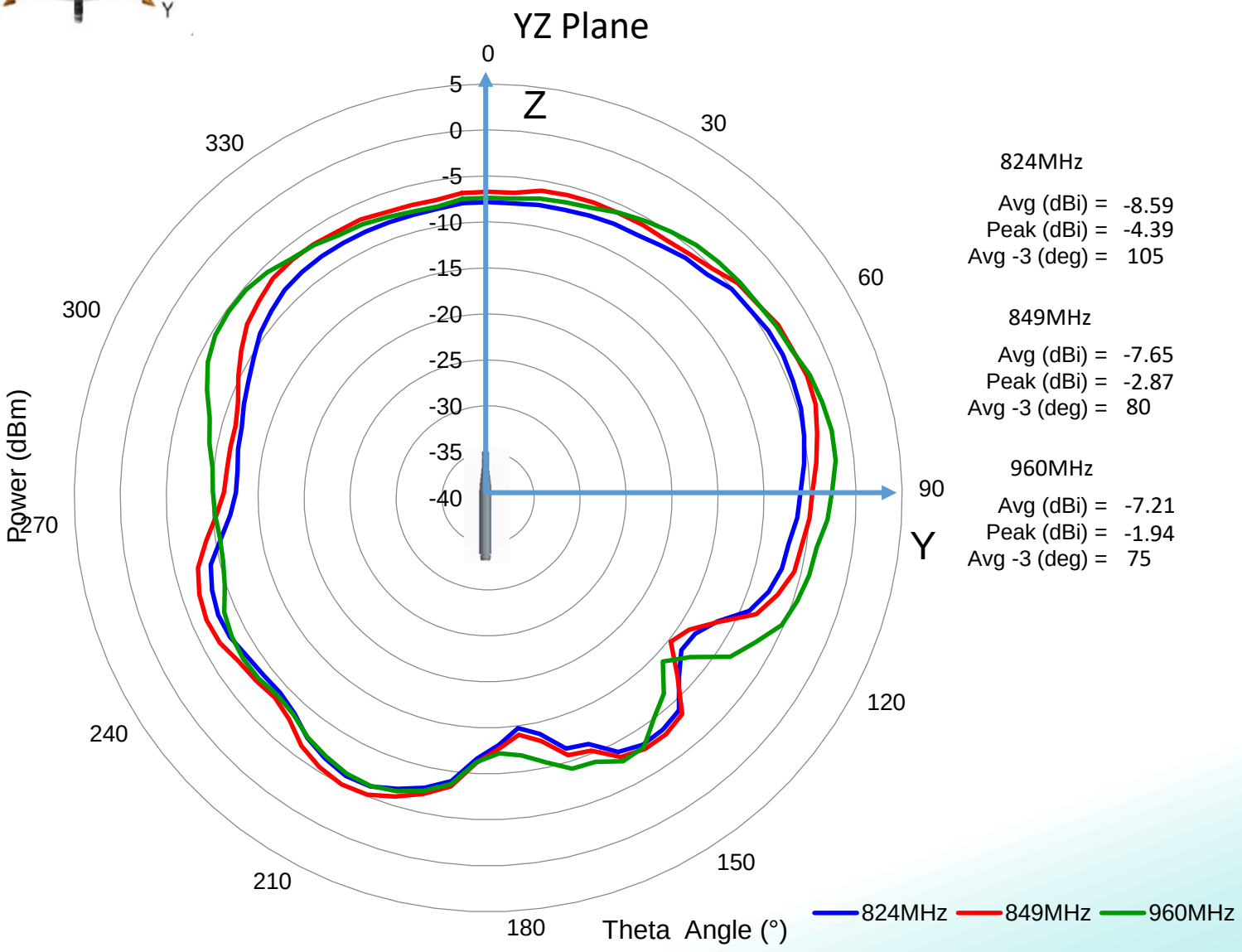
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CHARTS



Gain Plots



824MHz

Avg (dBi) = -8.59
Peak (dBi) = -4.39
Avg -3 (deg) = 105

849MHz

Avg (dBi) = -7.65
Peak (dBi) = -2.87
Avg -3 (deg) = 80

960MHz

Avg (dBi) = -7.21
Peak (dBi) = -1.94
Avg -3 (deg) = 75

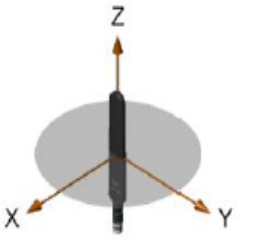
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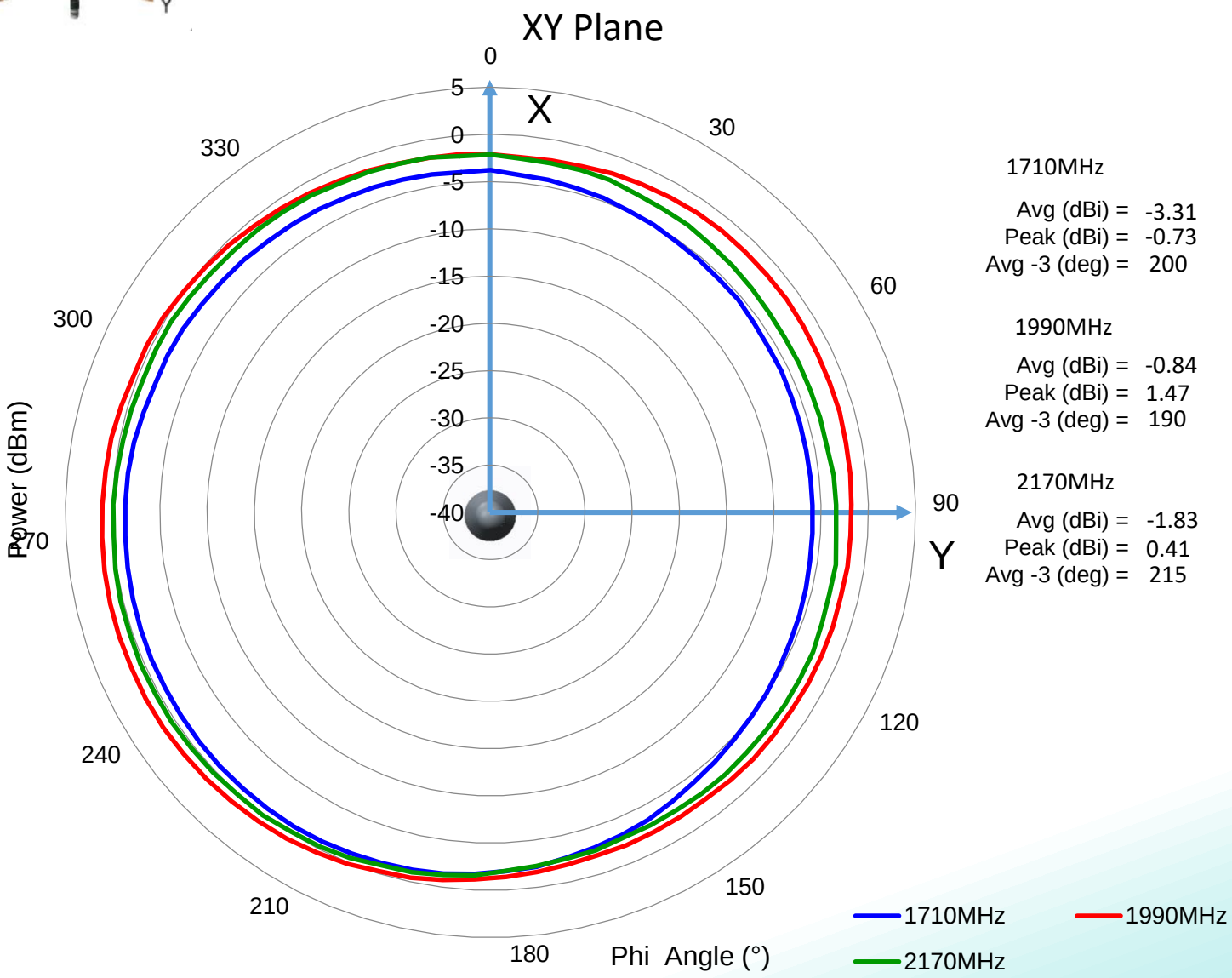
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CHARTS



Gain Plots



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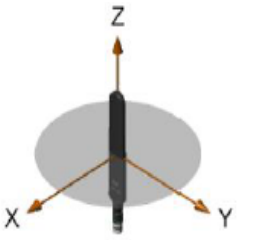
RoHS COMPLIANT

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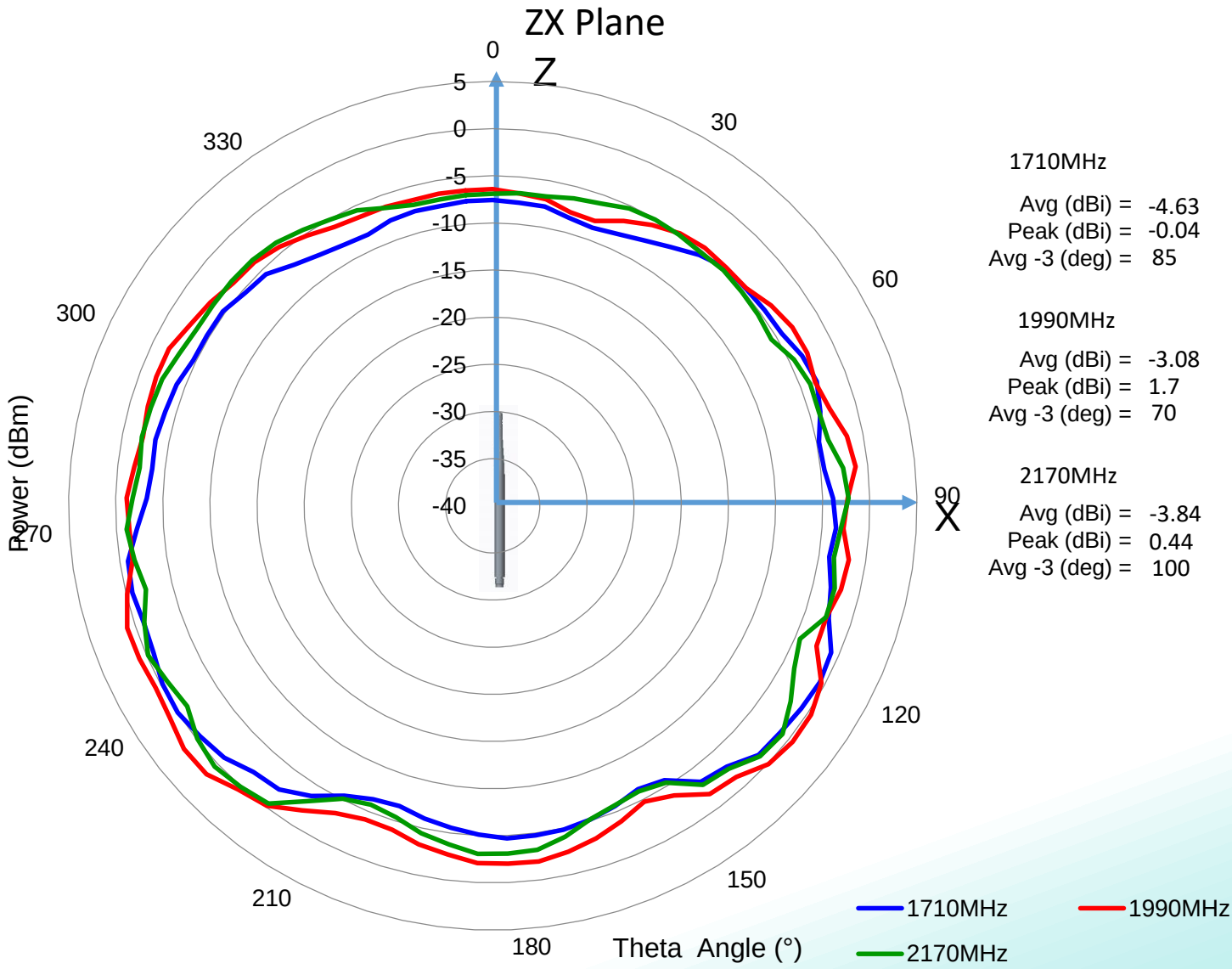
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CHARTS



Gain Plots



1710MHz

Avg (dBi) = -4.63
Peak (dBi) = -0.04
Avg -3 (deg) = 85

1990MHz

Avg (dBi) = -3.08
Peak (dBi) = 1.7
Avg -3 (deg) = 70

2170MHz

Avg (dBi) = -3.84
Peak (dBi) = 0.44
Avg -3 (deg) = 100

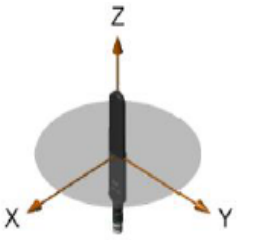
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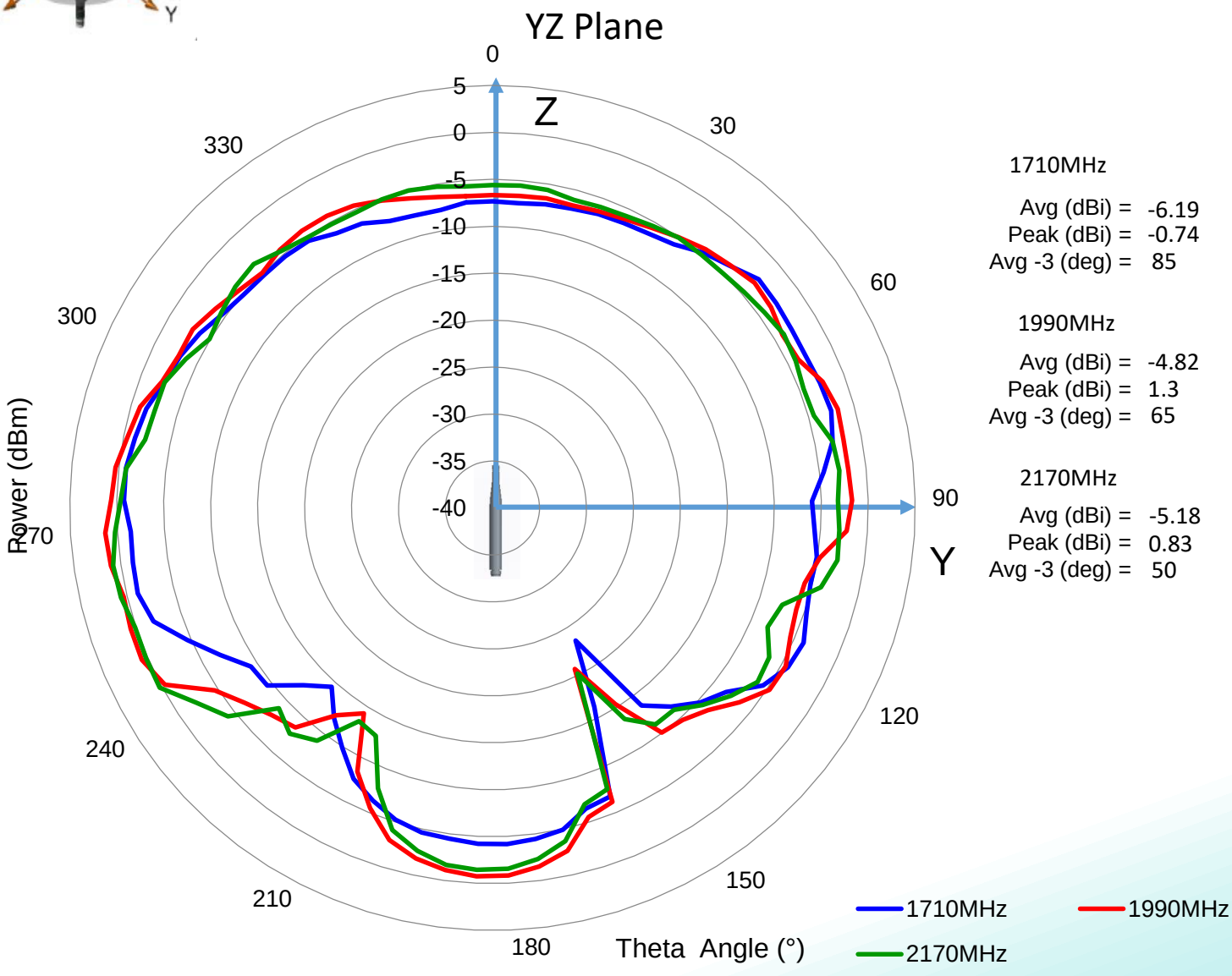
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CHARTS



Gain Plots



1710MHz

Avg (dBi) = -6.19
Peak (dBi) = -0.74
Avg -3 (deg) = 85

1990MHz

Avg (dBi) = -4.82
Peak (dBi) = 1.3
Avg -3 (deg) = 65

2170MHz

Avg (dBi) = -5.18
Peak (dBi) = 0.83
Avg -3 (deg) = 50

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PACKAGING

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







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