

Description: LTE 698-3700MHz Swivel Dipole

Series: OMNI Antenna

PART NUMBER: W5084x



Features:

- 698-3700MHz
- Omni radiation pattern in horizontal plane
- Gain 2/4 dBi
- Power rating 5W
- IP65
- Connector options:
 - W5084 TNC male
 - W5084K SMA male

Applications:

- LTE radios
- 2G/3G/4G radios
- Gateways, Routers, Set top boxes, Security, Metering
- IoT, M2M
- Optimized for straight and 90deg bent positions

All dimensions are in mm / inches

Issue: 1823

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ELECTRICAL SPECIFICATIONS

Frequency	698-960/1400-2690/3400-3700MHz	
Nominal Impedance	50	Ω
*VSWR(698-960MHz/1400-2690MHz)	3	Max
*VSWR(3400-3700MHz)	3.6	Max
**VSWR(698-960/1400-2690/3400-3700MHz)	3	Max
Average Efficiency(698-960MHz)	58	%
Average Efficiency(1400-2690MHz)	78	%
Average Efficiency(3400-3700MHz)	60	%
Peak Gain (698-960MHz)	2	dBi +/- 1 dB
Peak Gain (1400-2690MHz)	4	dBi +/- 1 dB
Peak Gain (3400-3700MHz)	5	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	5	W
Connector type	TNC male (SMA male is optional)	
Connector Options	W5084	TNC male connector
	W5084K	SMA male connector

*VSWR spec only for W5084 TNC male connector version

**VSWR spec only for W5084K SMA male connector version

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MECHANICAL SPECIFICATIONS

Plastic radome	ABS/PC
Color	Black
Flammability	UL94-V0
Ingress Protection	IP65
Weight	65.9 g
Overall Length(W5084/W5084K)	228.84/223.24mm [9.01/8.79INCHES]
Position	0°, 45° & 90°

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
Storage Temperature	-40/+85 ° C
Salt mist	96 hours

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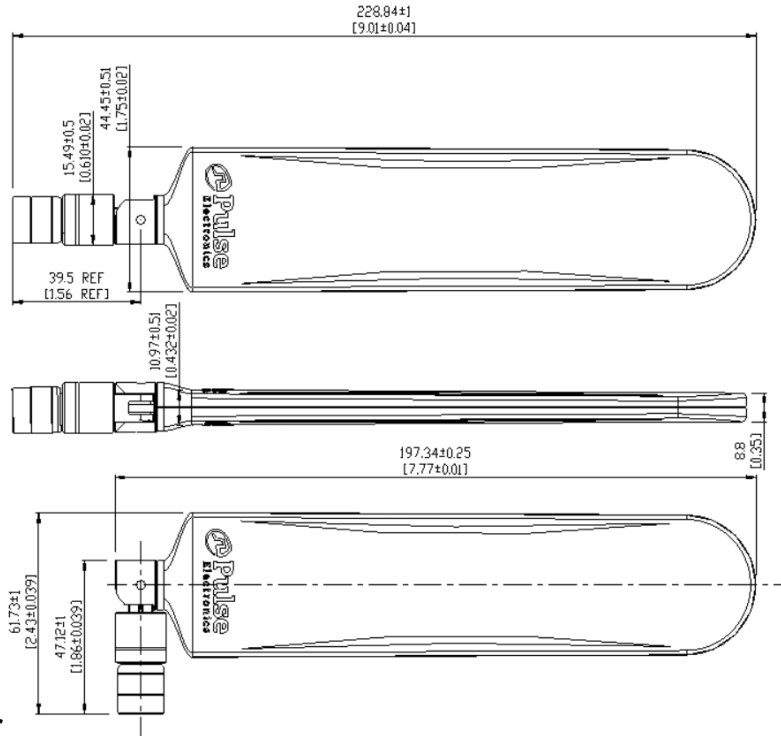
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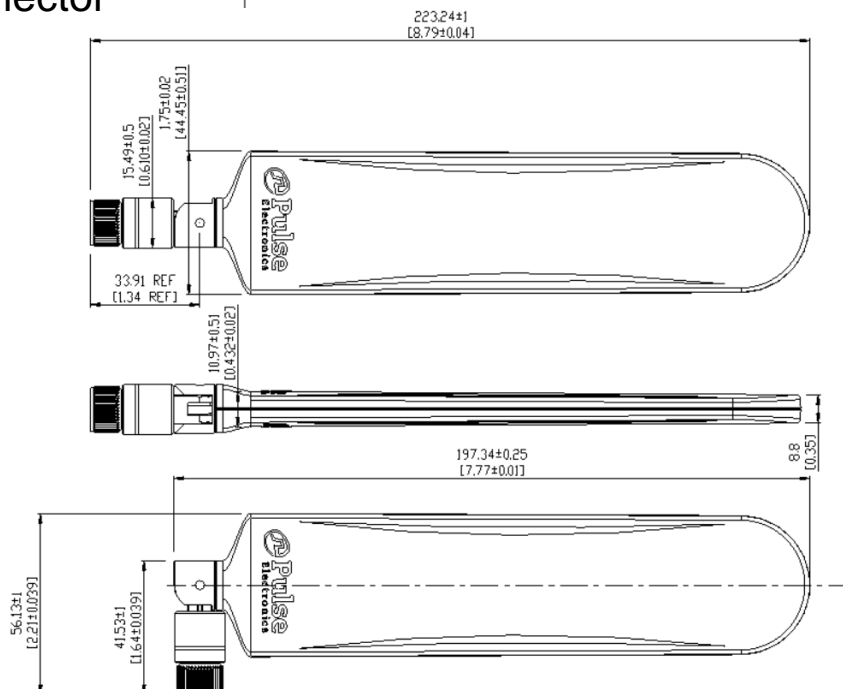
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MECHANICAL DRAWING

W5084 TNC male connector



W5084K SMA male connector



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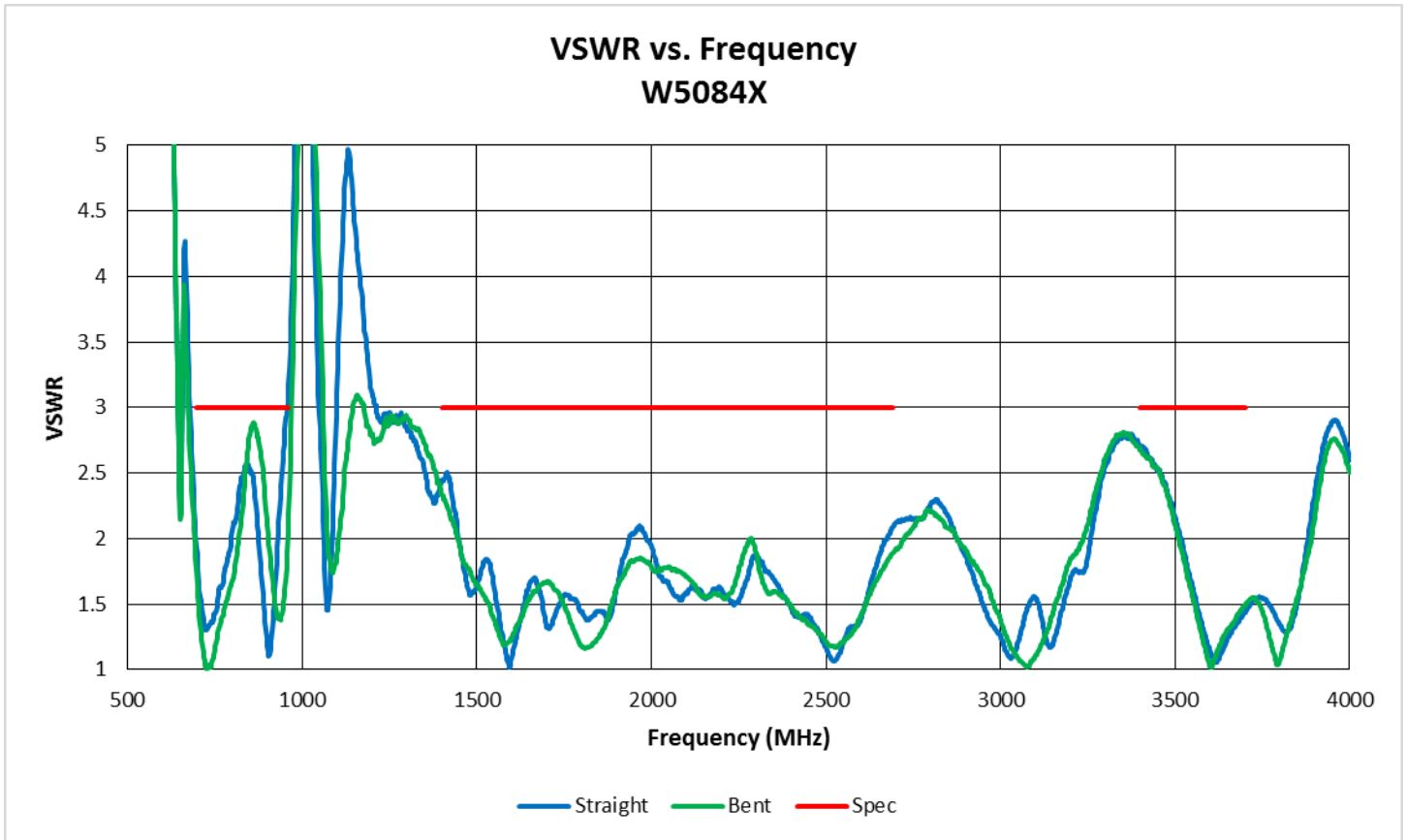
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CHARTS

VSWR



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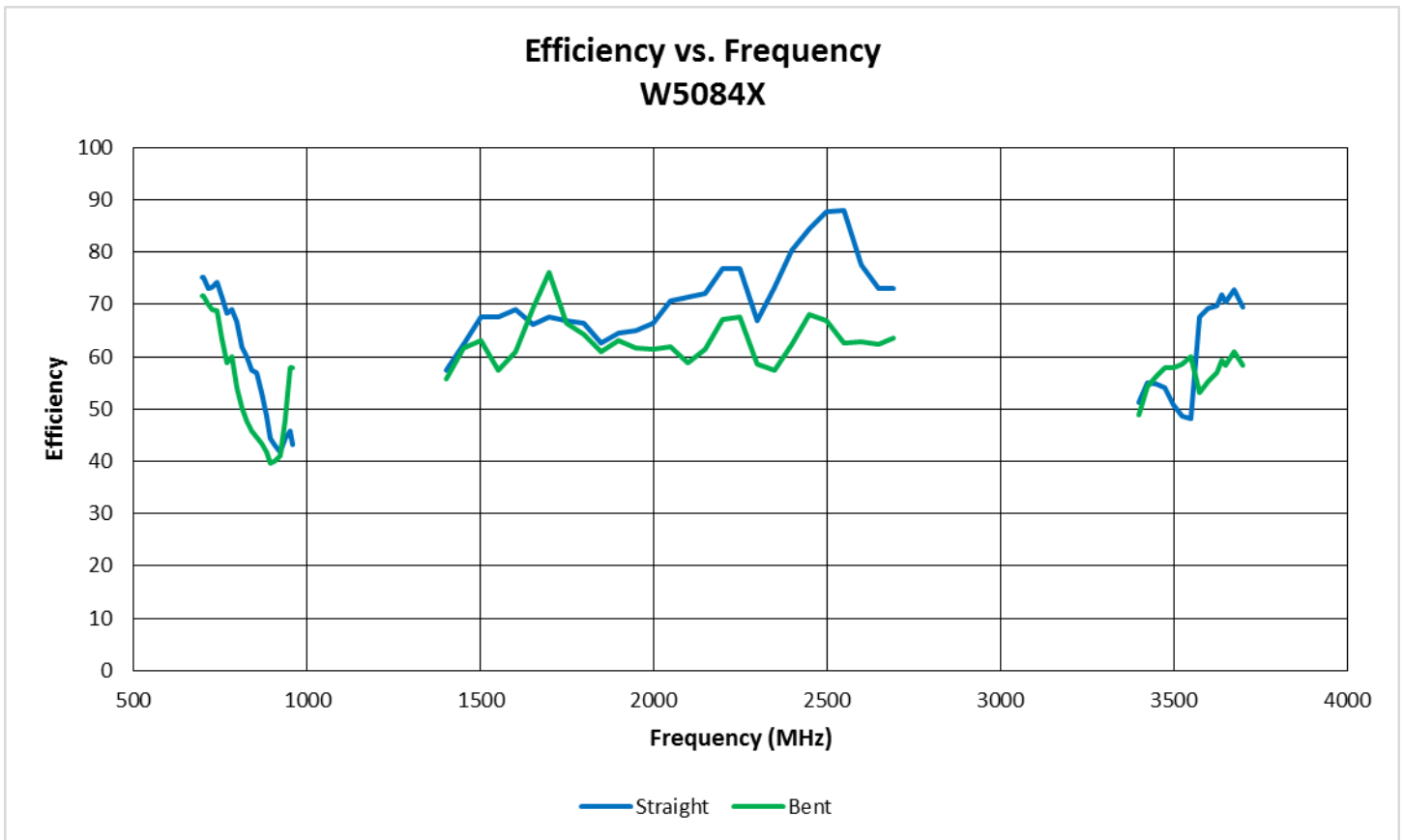
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CHARTS

Efficiency



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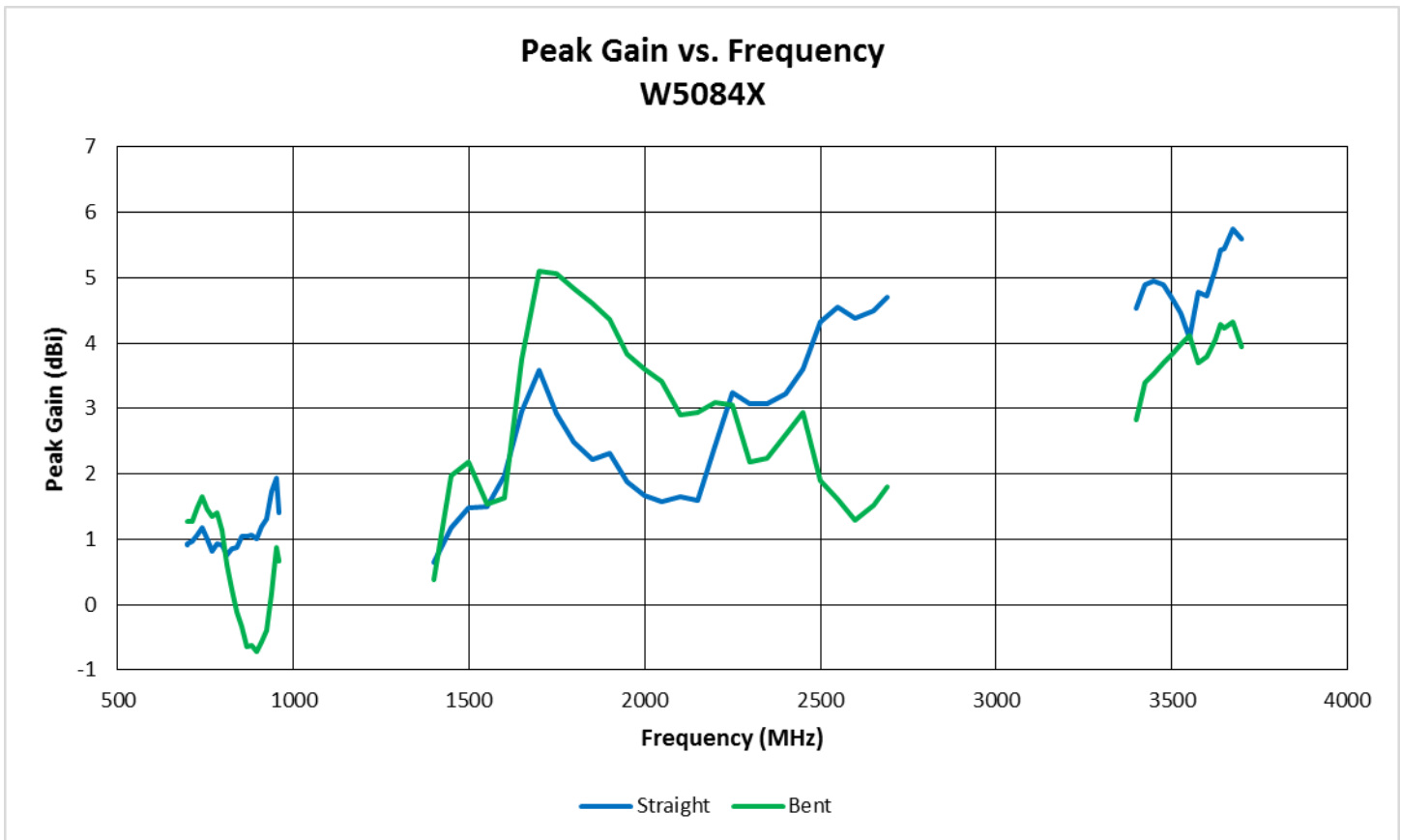
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CHARTS

Peak Gain



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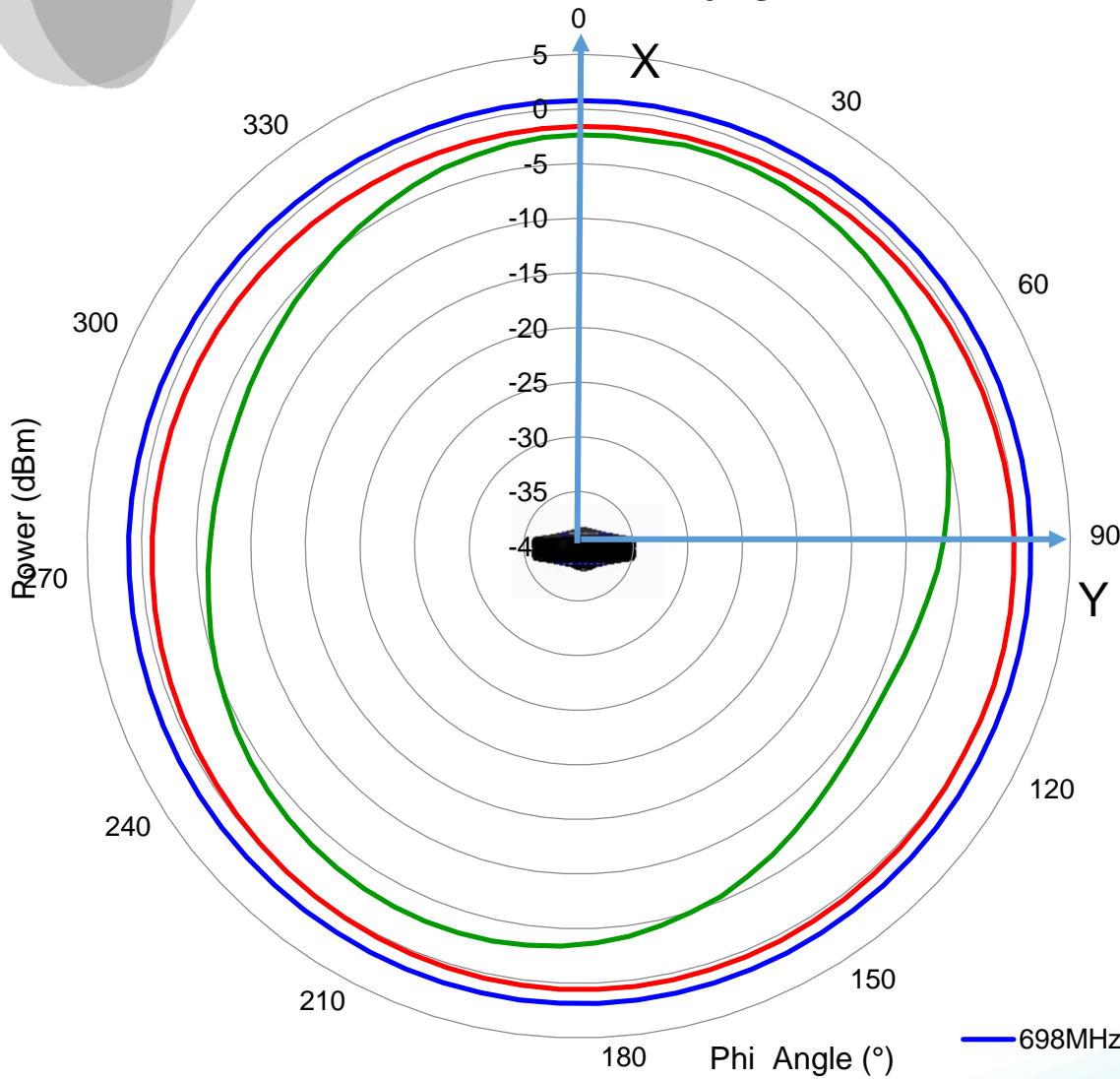
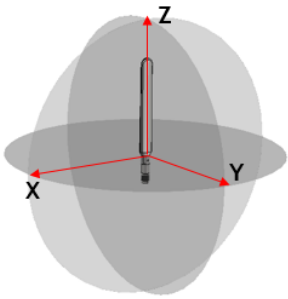
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CHARTS

Gain Plots

XY Plane



698MHz	Avg (dBi) = 1.29
	Peak (dBi) = 1.86
	Avg -3 (deg) = 360
824MHz	Avg (dBi) = -0.56
	Peak (dBi) = 0.6
	Avg -3 (deg) = 235
960MHz	Avg (dBi) = -4.79
	Peak (dBi) = -2
	Avg -3 (deg) = 205

— 698MHz — 824MHz — 960MHz

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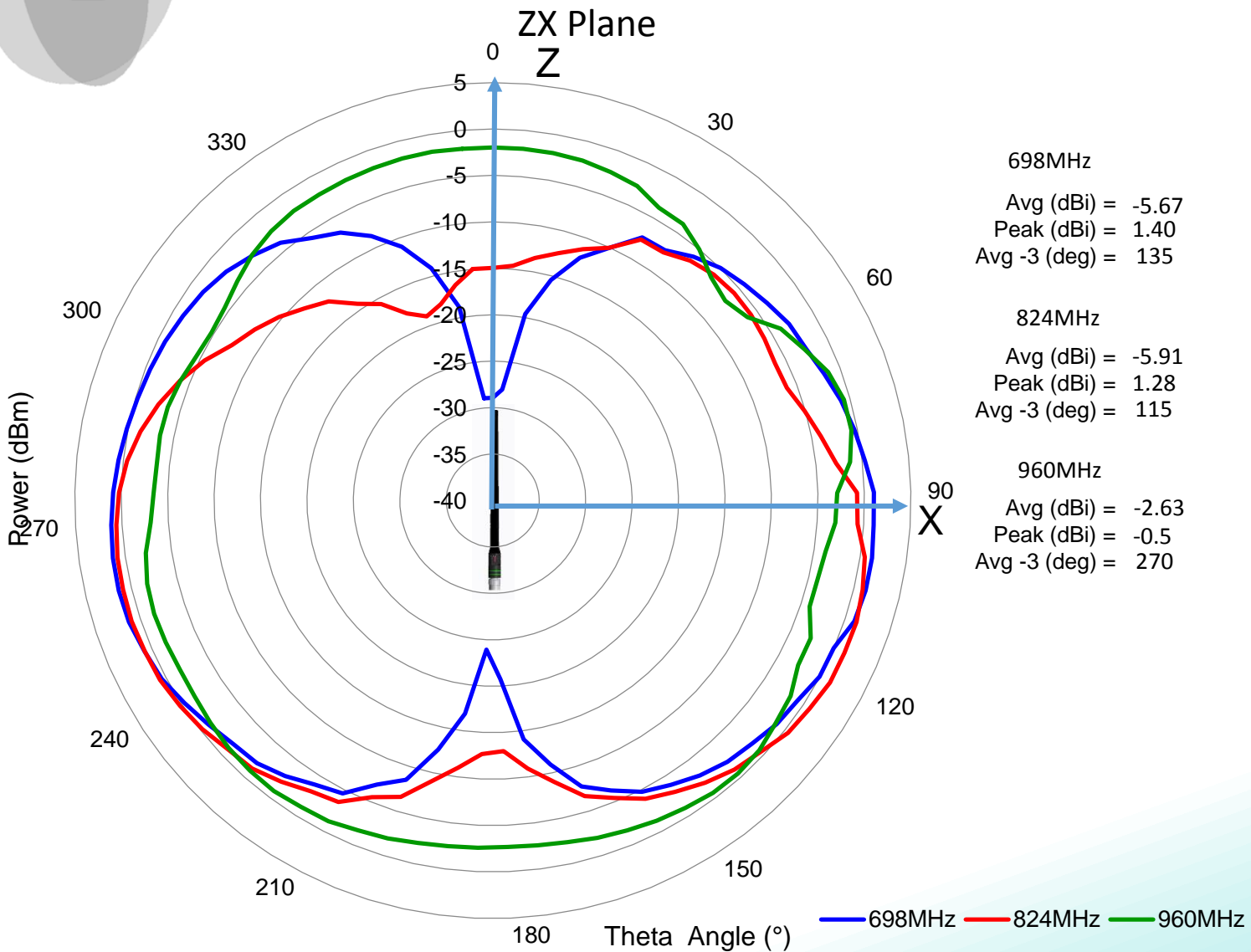
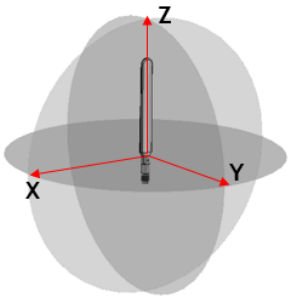
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Gain Plots



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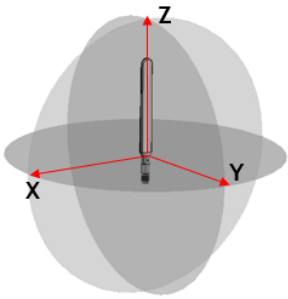
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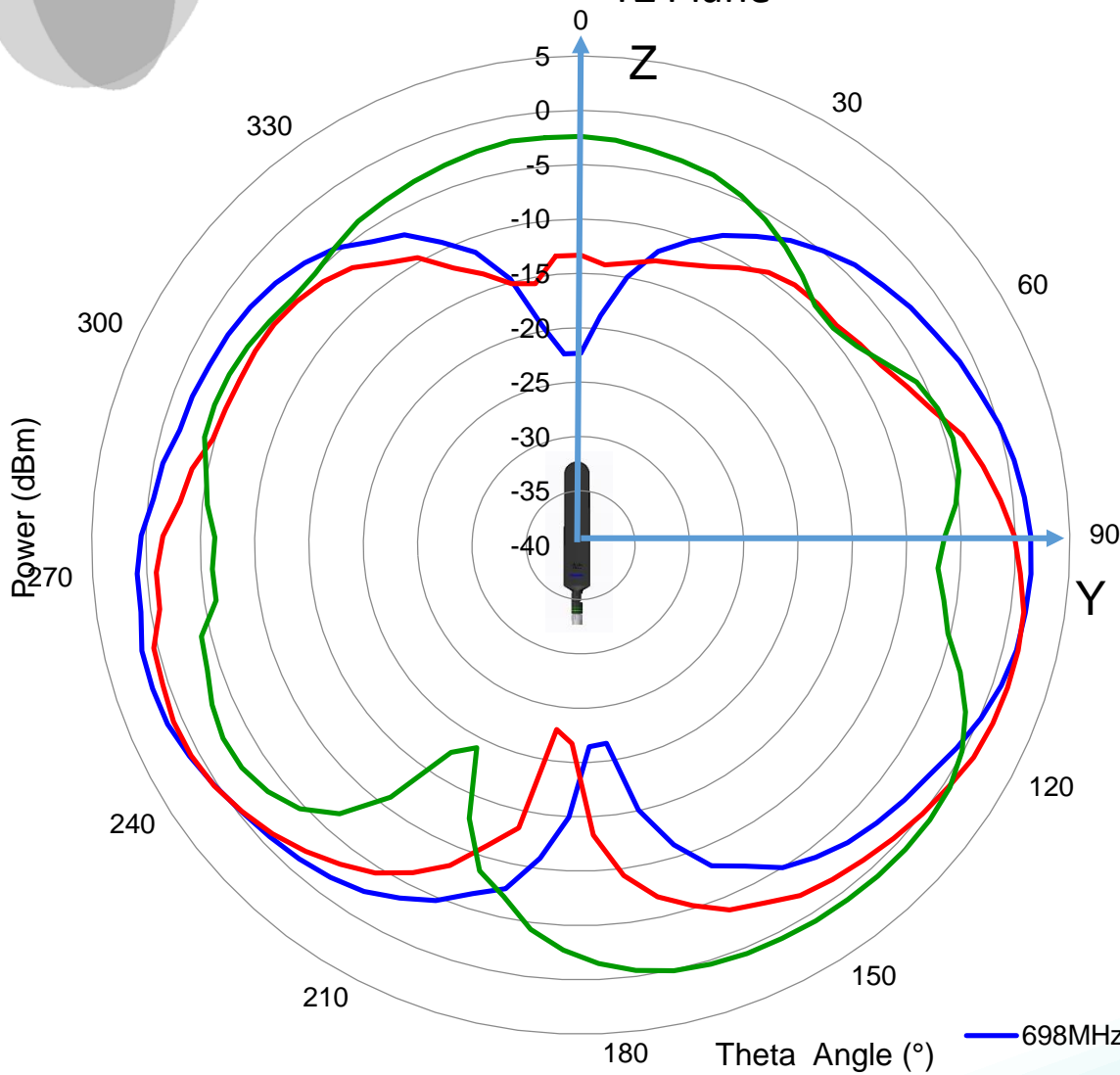
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CHARTS

Gain Plots



YZ Plane



698MHz	Avg (dBi) = -5.15
	Peak (dBi) = 1.54
	Avg -3 (deg) = 120
824MHz	Avg (dBi) = -6.02
	Peak (dBi) = 1.41
	Avg -3 (deg) = 110
960MHz	Avg (dBi) = -4.54
	Peak (dBi) = 0.95
	Avg -3 (deg) = 65

— 698MHz — 824MHz — 960MHz

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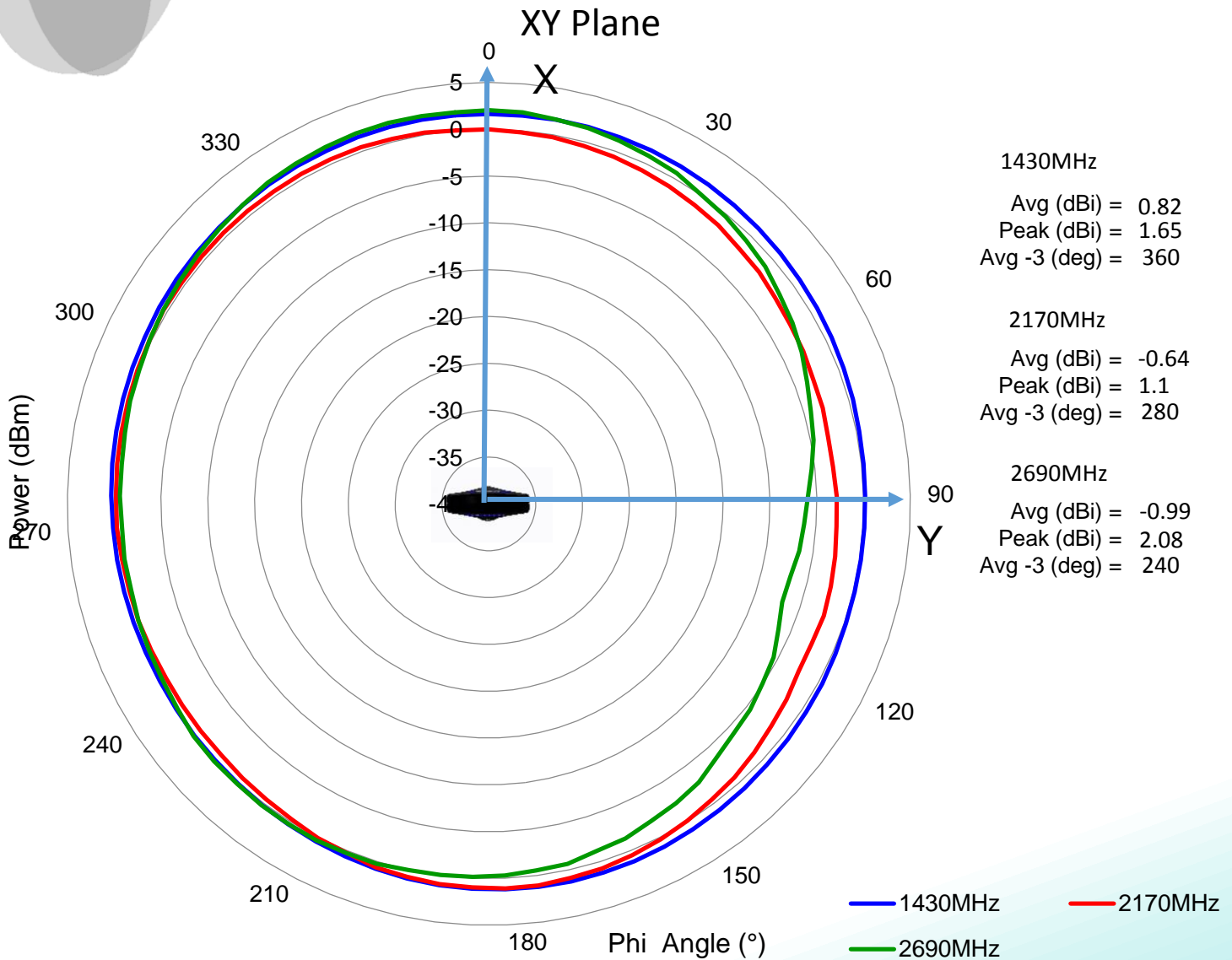
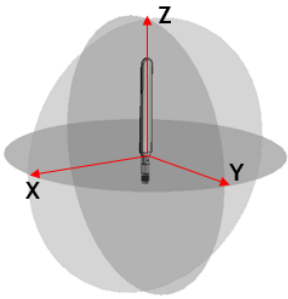
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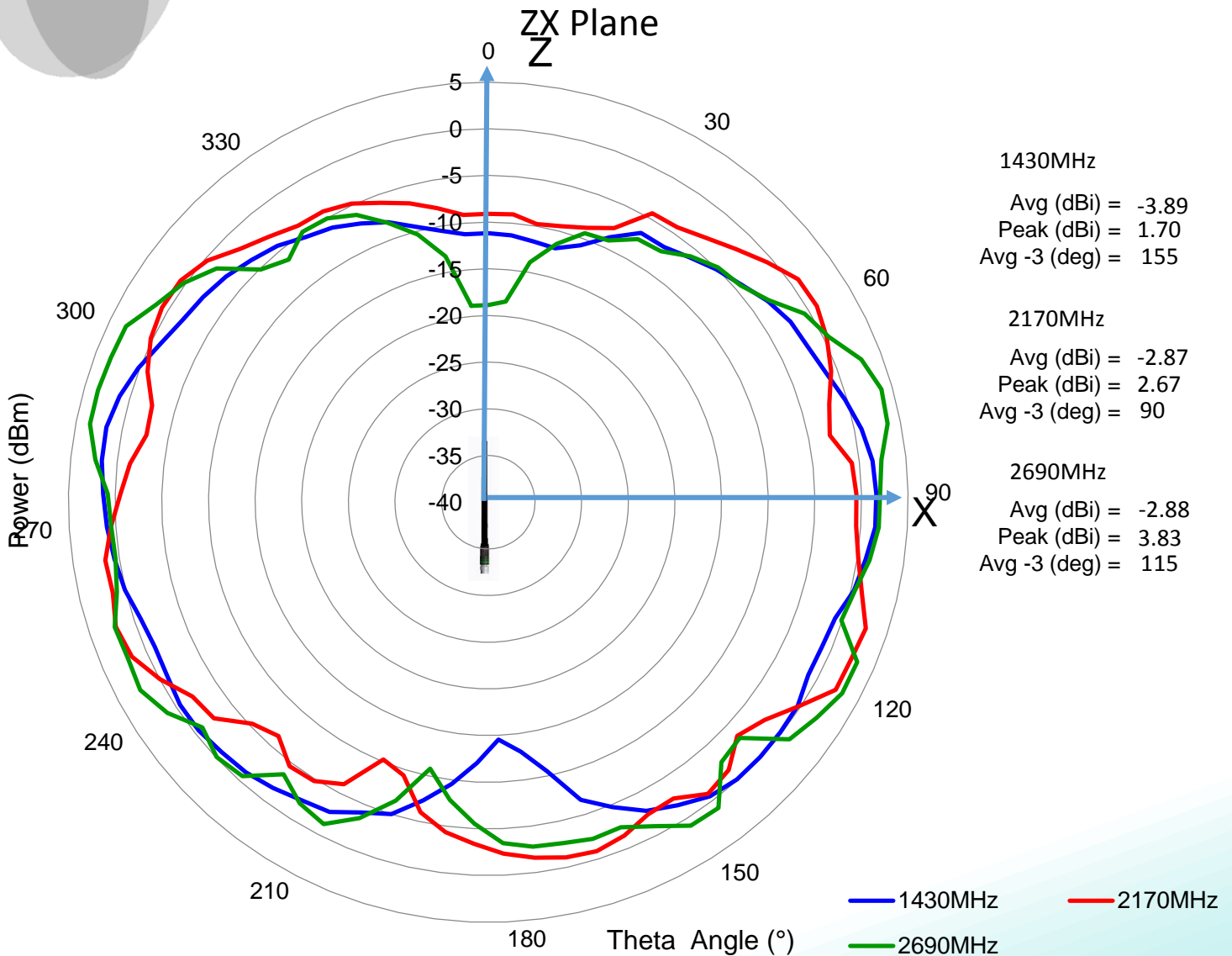
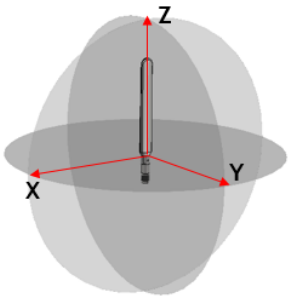
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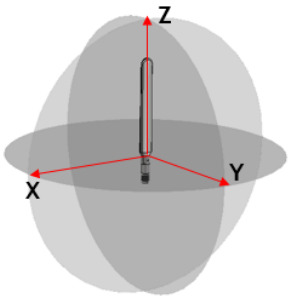
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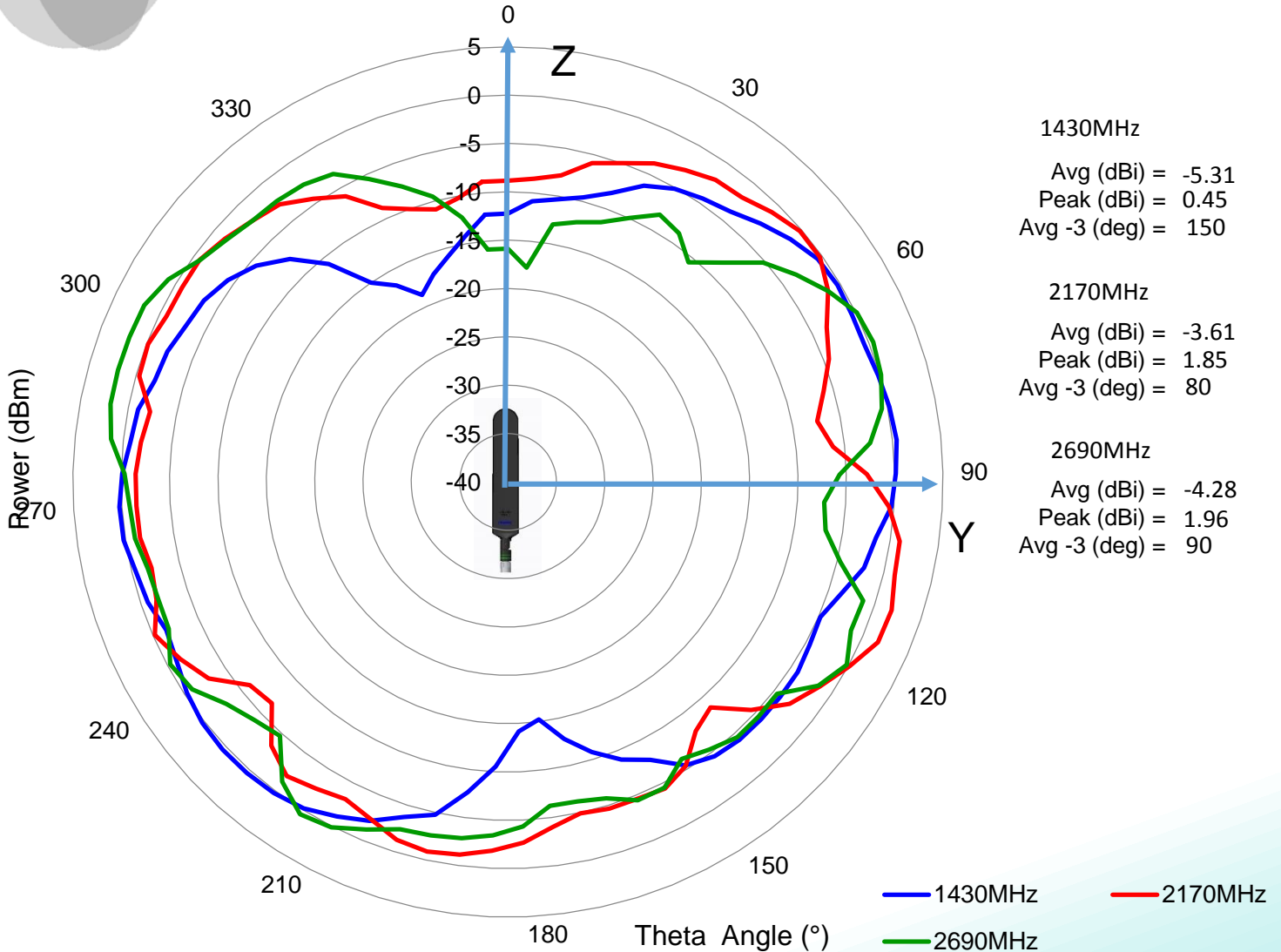
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YZ Plane



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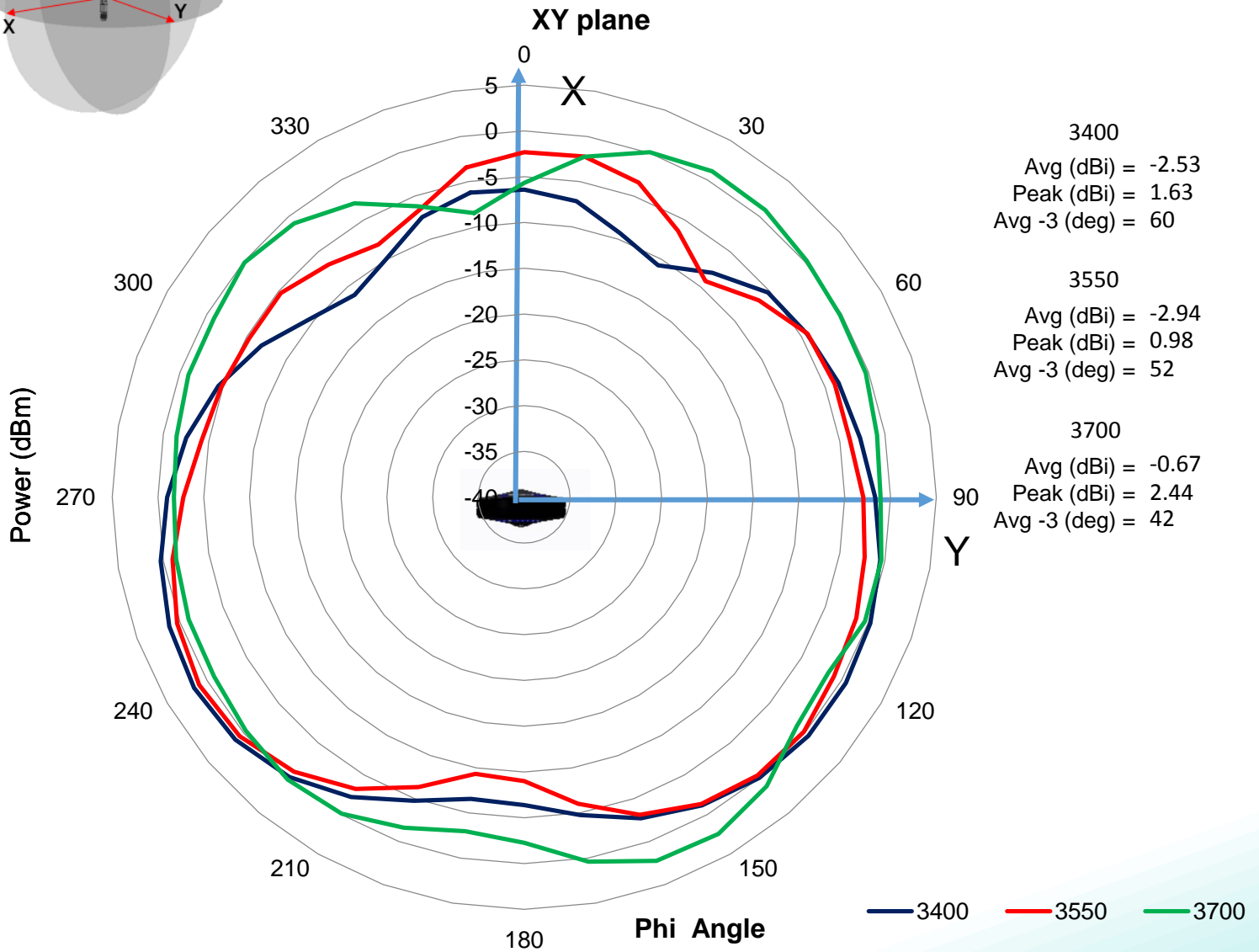
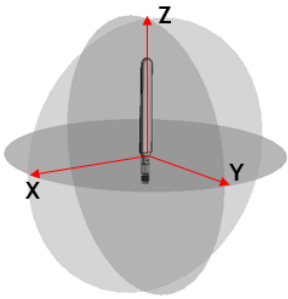
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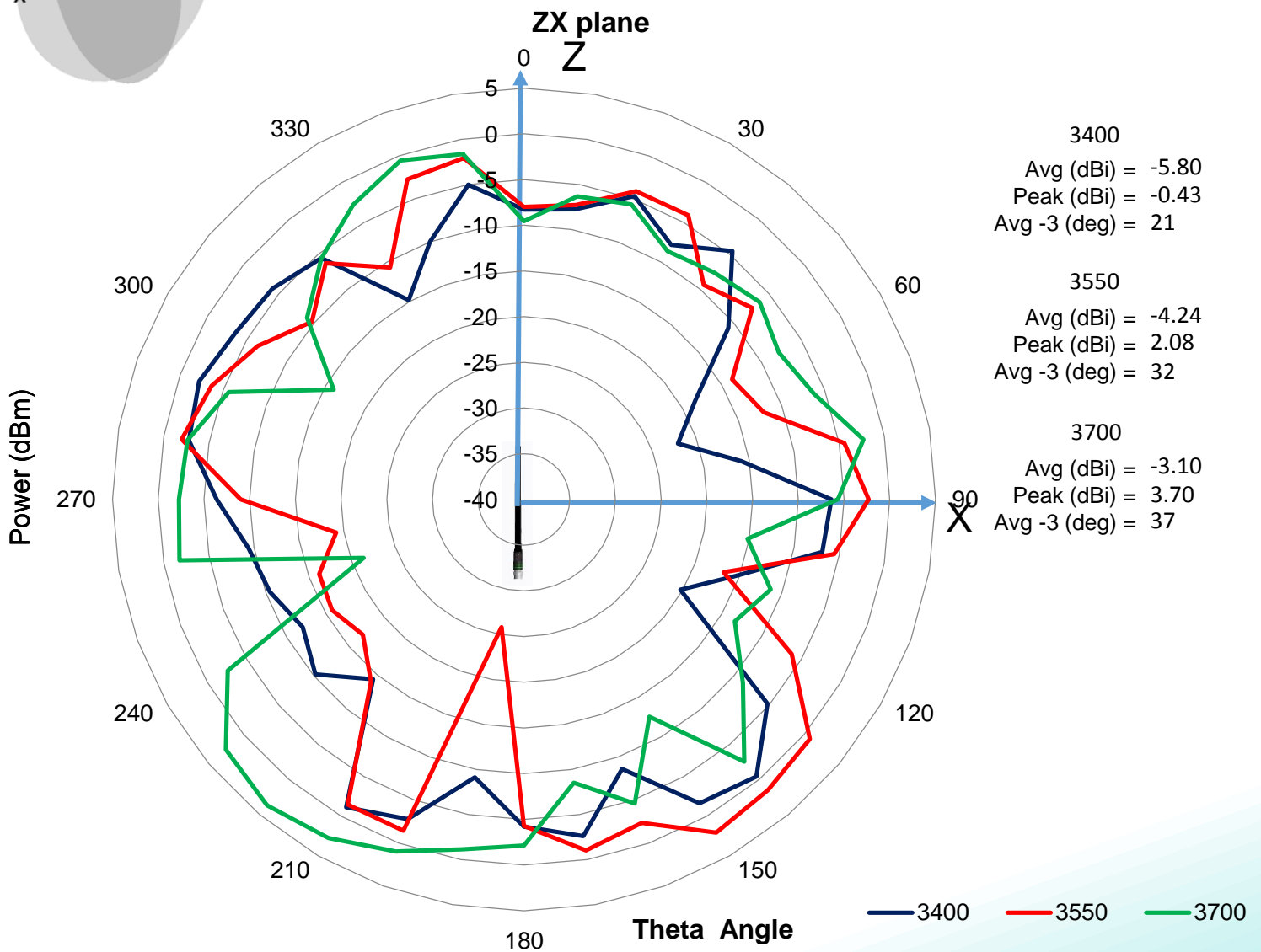
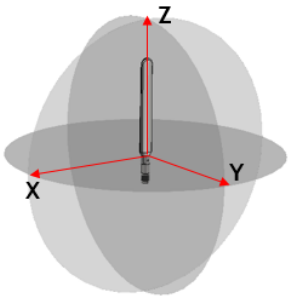
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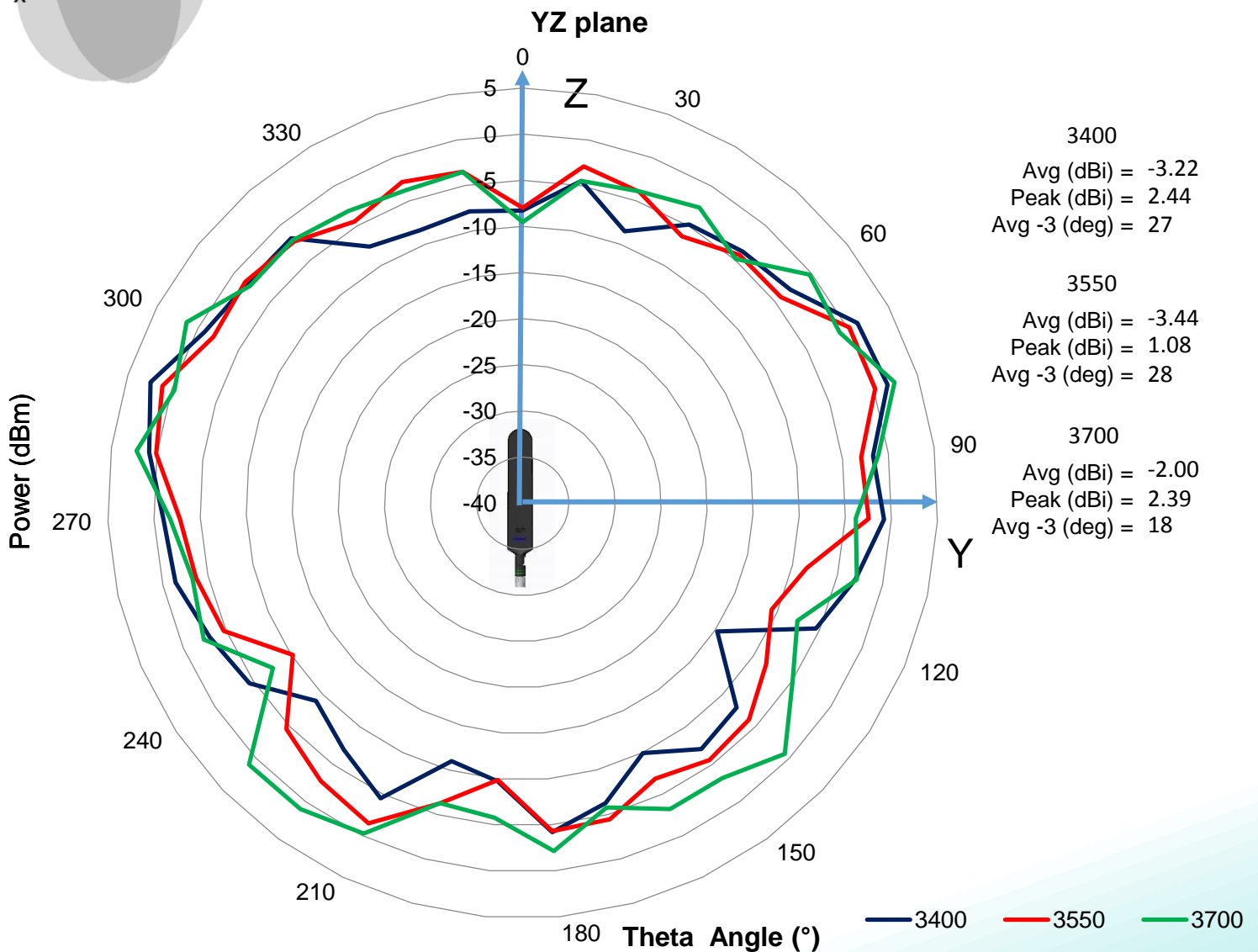
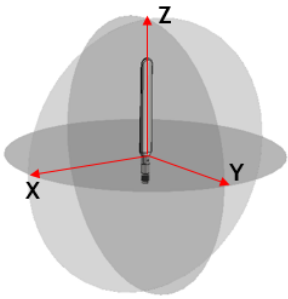
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