

Description: LTE698-960/1710-2690MHzSMA

Series: ICEBLADE

PART NUMBER: ICEBLADELS

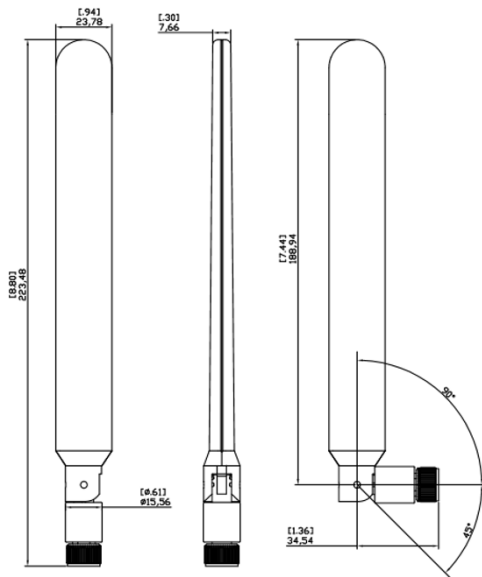


Features:

- 690-2690MHz
- Gain 1.6/2.5dBi
- 90 degree swivel
- SMA connector
- Translucent visually appealing radome

Applications:

- LTE radios
- Gateways
- Set top boxes
- M-to-M, IoT



All dimensions are in mm / inches

Issue:1747

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS

Frequency	698-960/1710-2690	MHz
Nominal Impedance	50	Ω
VSWR	2.5 :1	
Average Efficiency(698-960MHz)	37	%
Average Efficiency(1710-2690MHz)	60	%
Peak Gain (698-960MHz)	1.6	dBi +/- 1 dB
Peak Gain(1710-2690MHz)	2.5	dBi +/- 1 dB
Polarization:	linear	
Power withstanding	3	W
Connector type	SMA	

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MECHANICAL SPECIFICATIONS

Plastic radome	PC945A
Color	Clarity
Flammability(Radome)	UL94 V-0
Weight	45.4g
Positions	0°, 45° & 90°
Overall length	8.8 INCHES
Fixing system	° ± 2 °
Azimuth adjustment	° ± 4°
Elevation adjustment	° ± 4°

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-30/+70° C
Temperature	
Stationary	-40/+85° C
Cyclic	Rate 5°C/min, 16 hours
Humidity	
Stationary	95%@ 25° C
Cyclic	12 hours
Salt mist	96 hours

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MECHANICAL DRAWING

	A	B	C	D	E	F	G																																	
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<p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <p>1. INTERPRET THIS SPECIFICATION PER PULSE PQ: 7.004.000 AND STANDARDS REFERENCED THEREIN.</p> <p>ELECTRICAL SPECIFICATIONS:</p> <p>1. FREQ: MULTI BAND - 698-960/1710-2690 MHz 2. VSWR: MULTI BAND - 2.5:1 MAX 3. GAIN: 0 MIN-2 MAX dBI 4. POWER WITHSTANDING: 3W</p> <p>ENVIRONMENTAL:</p> <p>1. OPERATING TEMP: -40/+70 C° 2. VIBRATION: 5-500 Hz FREQ, MIL STD 810 G section 514.6 3. THERMAL SHOCK: 3 CYCLES MIL-STD 810G Method 503.4 4. HUMIDITY: +30° @ 93% RH MIL-STD 810G Method 507.4 5. DROP TEST: 1 METER, 1 DROP, 1 PER AXIS.</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr><td>8</td><td>1</td><td>043-3905.001</td><td>ICEBLADE Plate</td></tr> <tr><td>7</td><td>1</td><td>043-5091.001</td><td>WS080 Rubber White</td></tr> <tr><td>6</td><td>2</td><td>0020.0015</td><td>PIVOT PIN</td></tr> <tr><td>5</td><td>1</td><td>155-2250.001</td><td>ICEBladeLS SMA Cable Sub Assy</td></tr> <tr><td>4</td><td>1</td><td>043-3757.001</td><td>ICE Blade Base</td></tr> <tr><td>3</td><td>1</td><td>025-8121.001</td><td>ICE Blade LS FPC</td></tr> <tr><td>2</td><td>1</td><td>043-3758.001</td><td>ICE Blade Radome Top</td></tr> <tr><td>1</td><td>1</td><td>043-3755.001</td><td>ICE Blade Radome Swivel</td></tr> </table> <p>ITEM QTY. PART NUMBER DESCRIPTION</p>	8	1	043-3905.001	ICEBLADE Plate	7	1	043-5091.001	WS080 Rubber White	6	2	0020.0015	PIVOT PIN	5	1	155-2250.001	ICEBladeLS SMA Cable Sub Assy	4	1	043-3757.001	ICE Blade Base	3	1	025-8121.001	ICE Blade LS FPC	2	1	043-3758.001	ICE Blade Radome Top	1	1	043-3755.001	ICE Blade Radome Swivel								
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<p>Confidential This is a proprietary information of Pulse Suzhou. No reproduction/copying is allowed without permission.</p>	<p>Functional Characteristics Key (Cpk requirement < Cpk >)</p> <ul style="list-style-type: none"> ⚡ Process Capability Studies required (total pcs) ⚡ Ongoing Statistical Process Control Required (total pcs) ● Critical dimension need to be measured, no Cpk requirement (total pcs) 																																							
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Issue:1747

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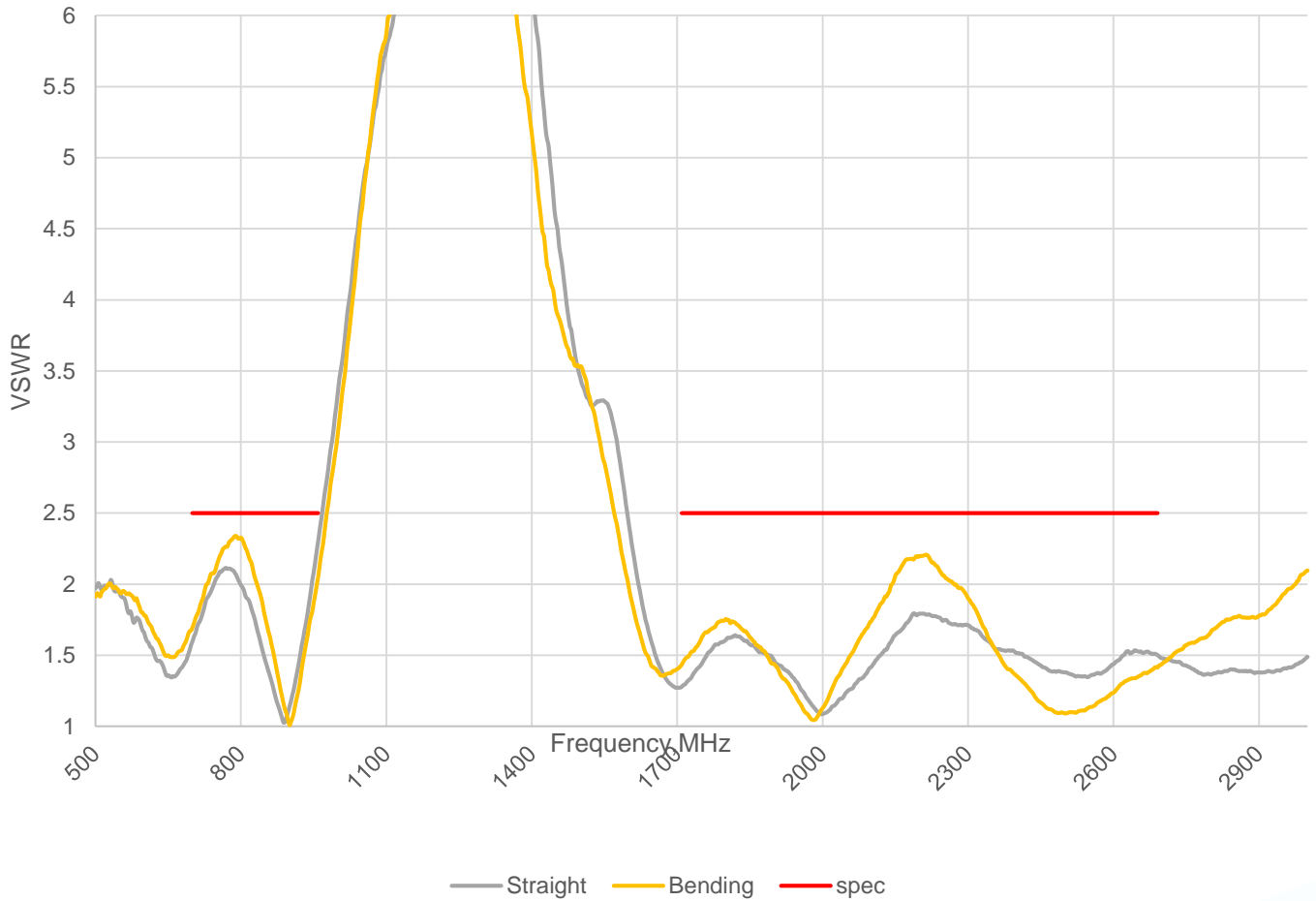
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OTHER SPECIFICATIONS

VSWR

VSWR vs Frequency measured in free space
IceBladeLS measured in PSU



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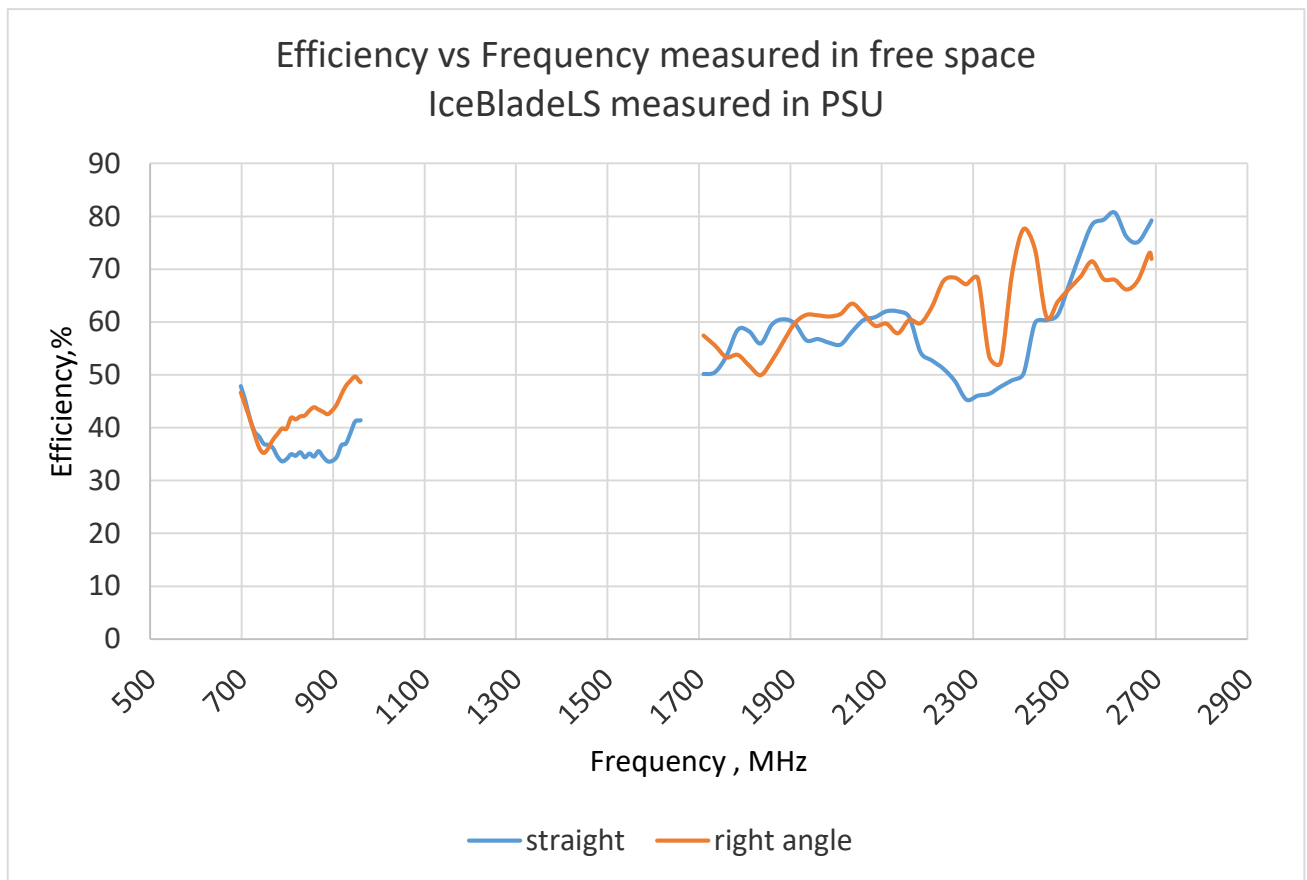
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CHARTS

Efficiency



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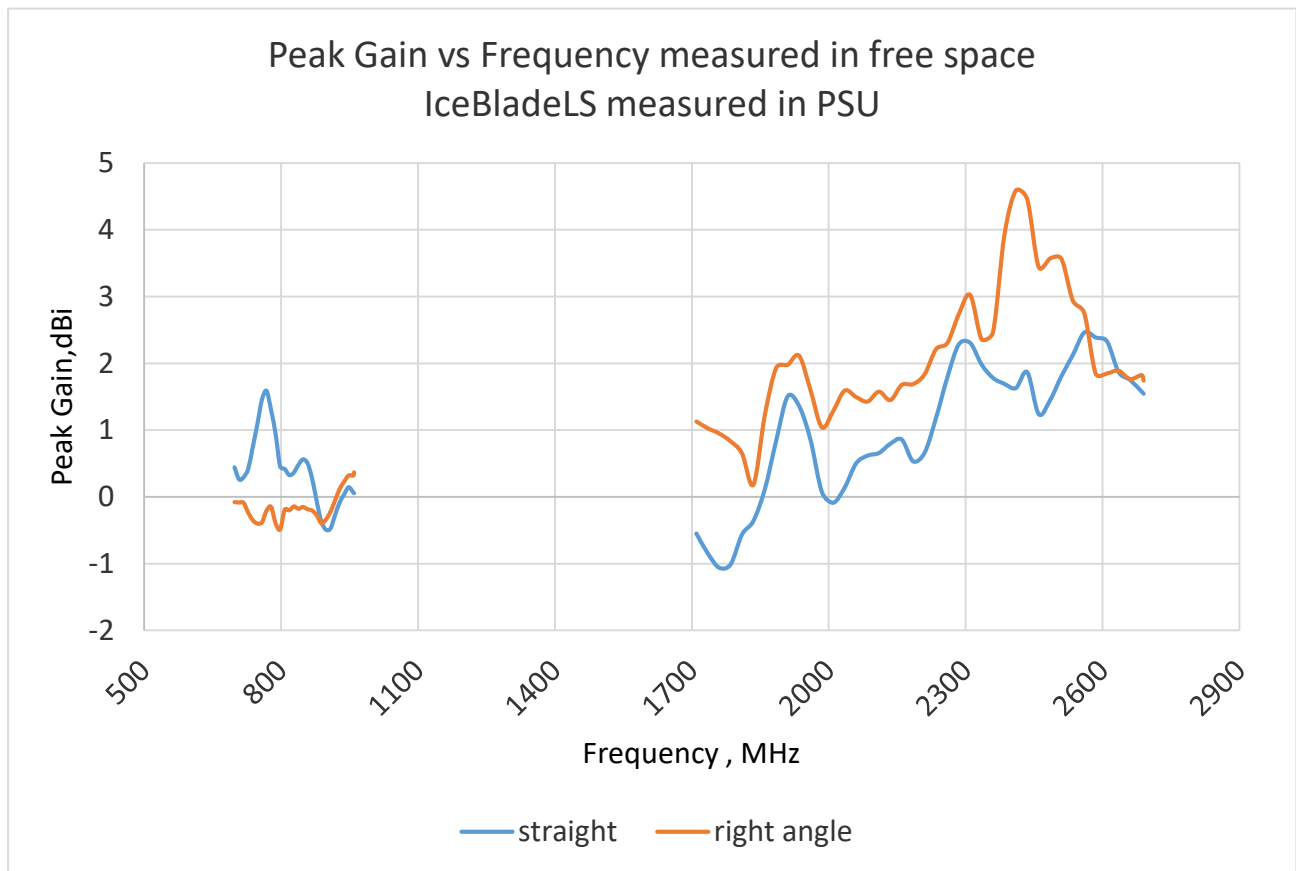
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CHARTS

Peak Gain



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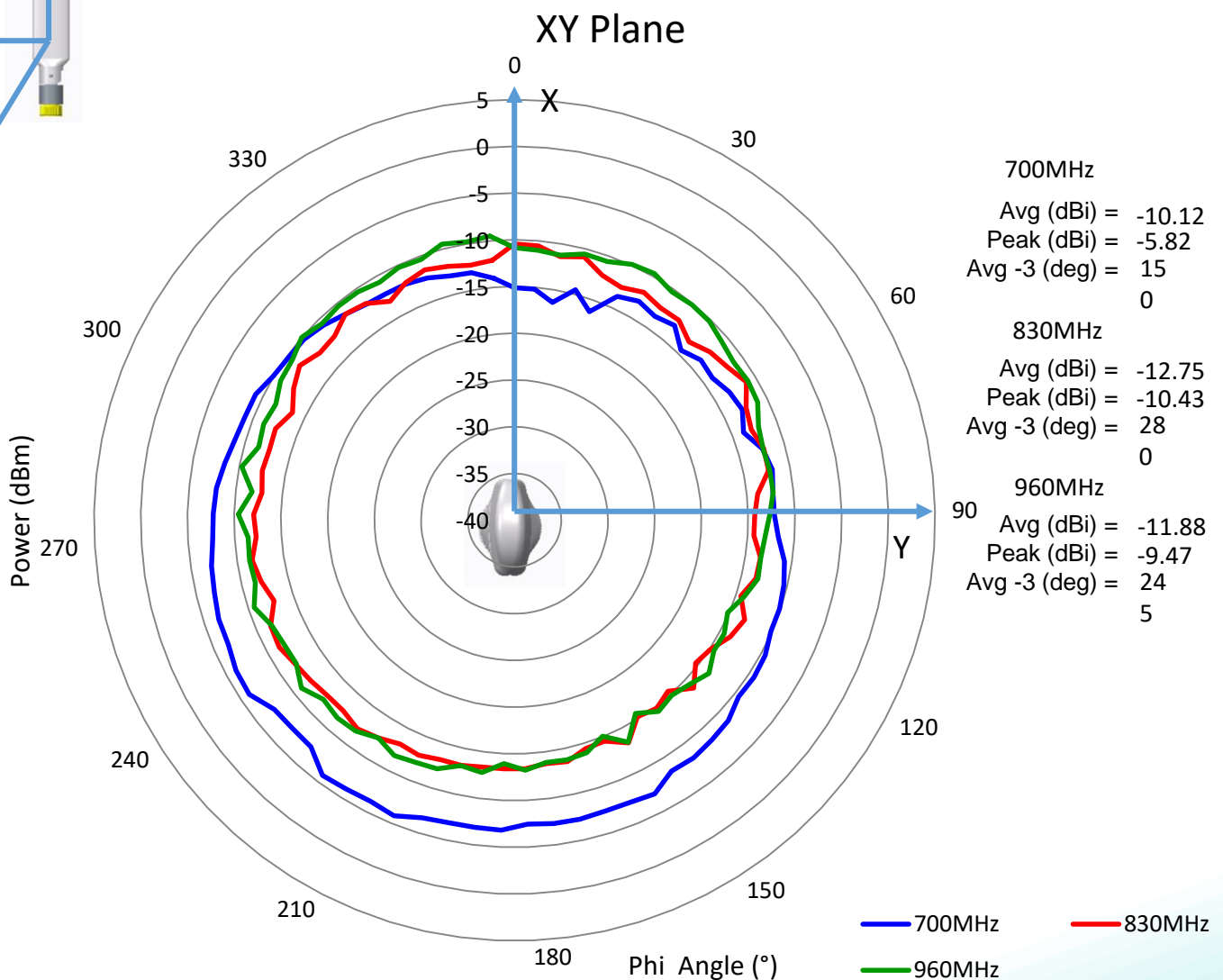
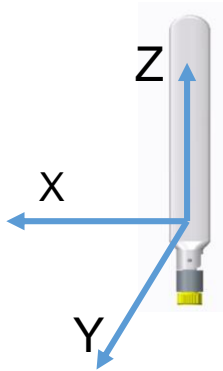
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CHARTS

Gain Plots



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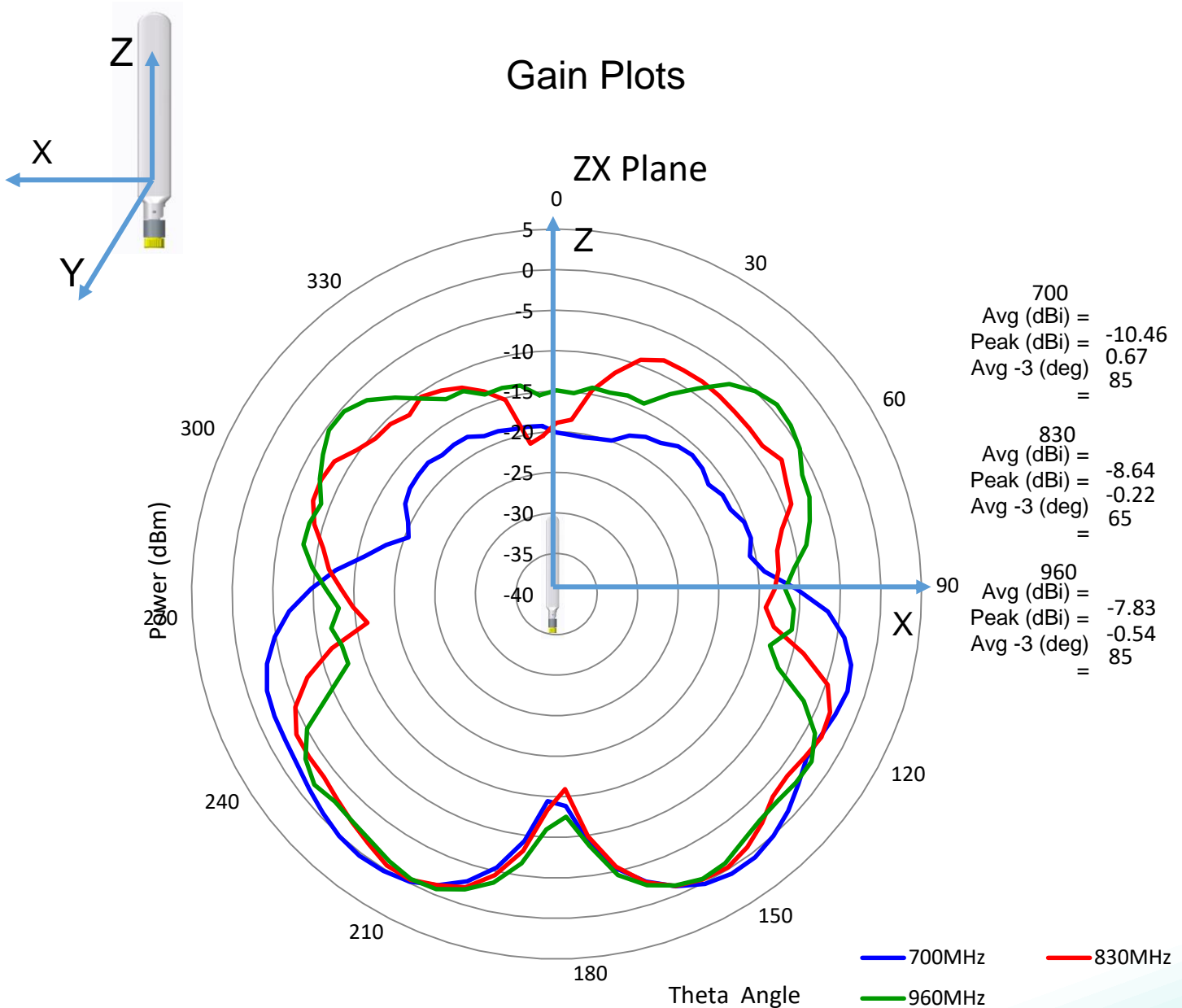
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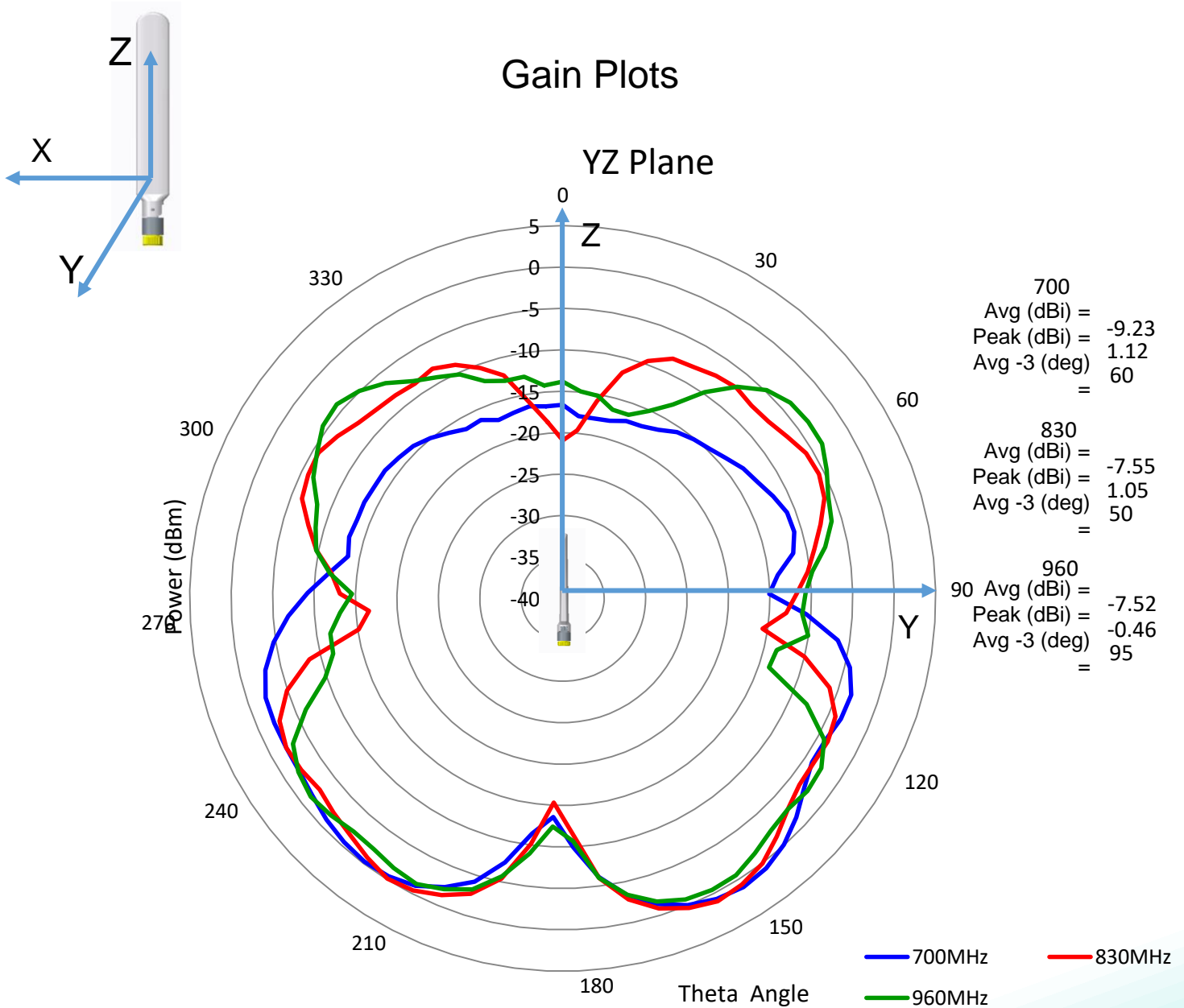
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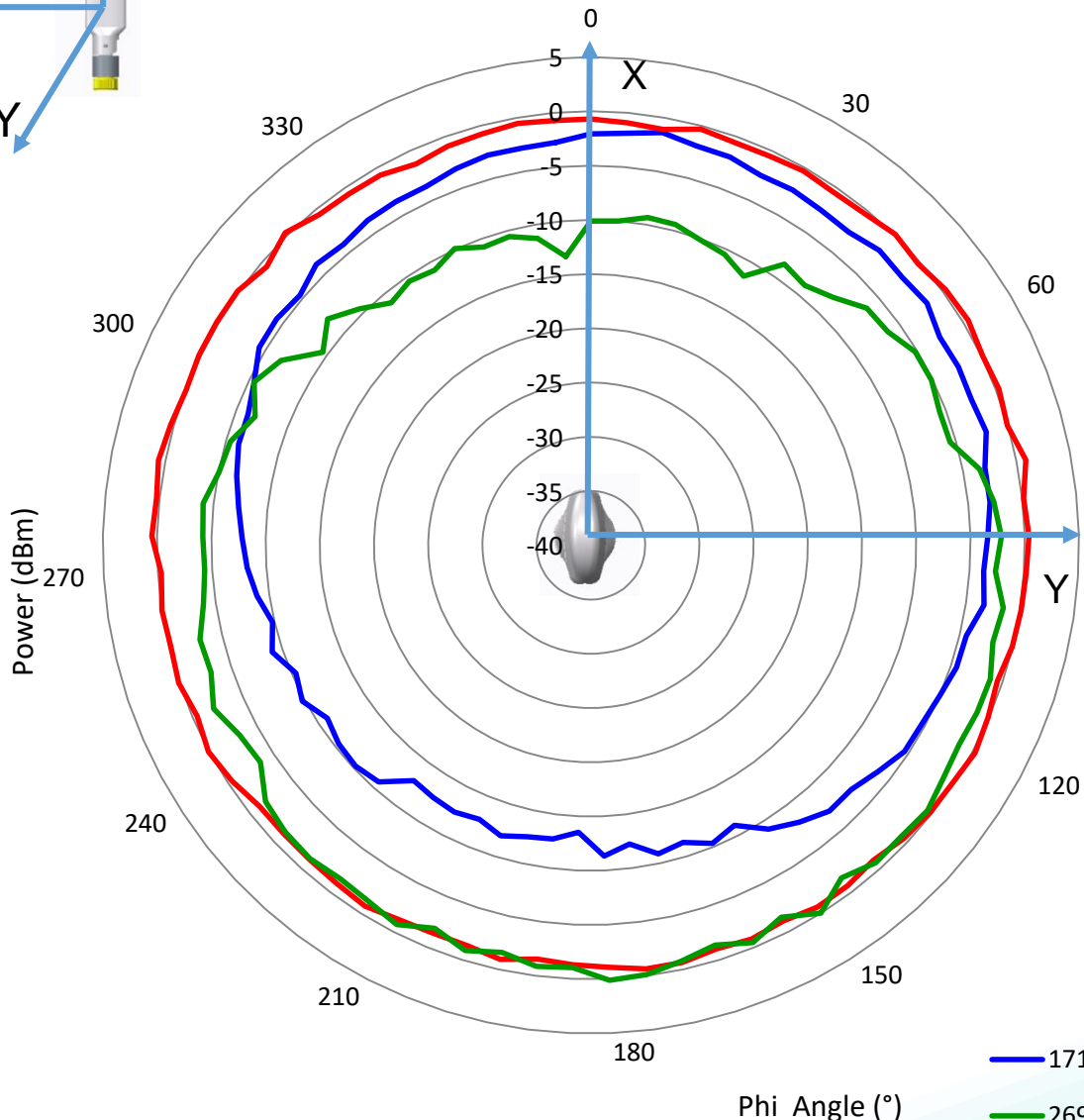
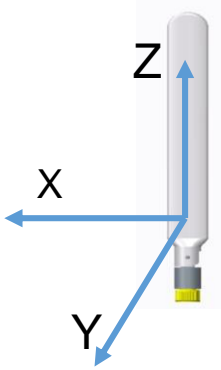
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CHARTS

Gain Plots

XY Plane



1710MHz	Avg (dBi) = -6.29
	Peak (dBi) = -1.40
	Avg -3 (deg) = 16
	0
2170MHz	Avg (dBi) = -0.41
	Peak (dBi) = 0.88
	Avg -3 (deg) = 36
	0
2690MHz	Avg (dBi) = -4.84
	Peak (dBi) = 0.14
	Avg -3 (deg) = 15
	5

— 1710MHz — 2170MHz
— 2690MHz

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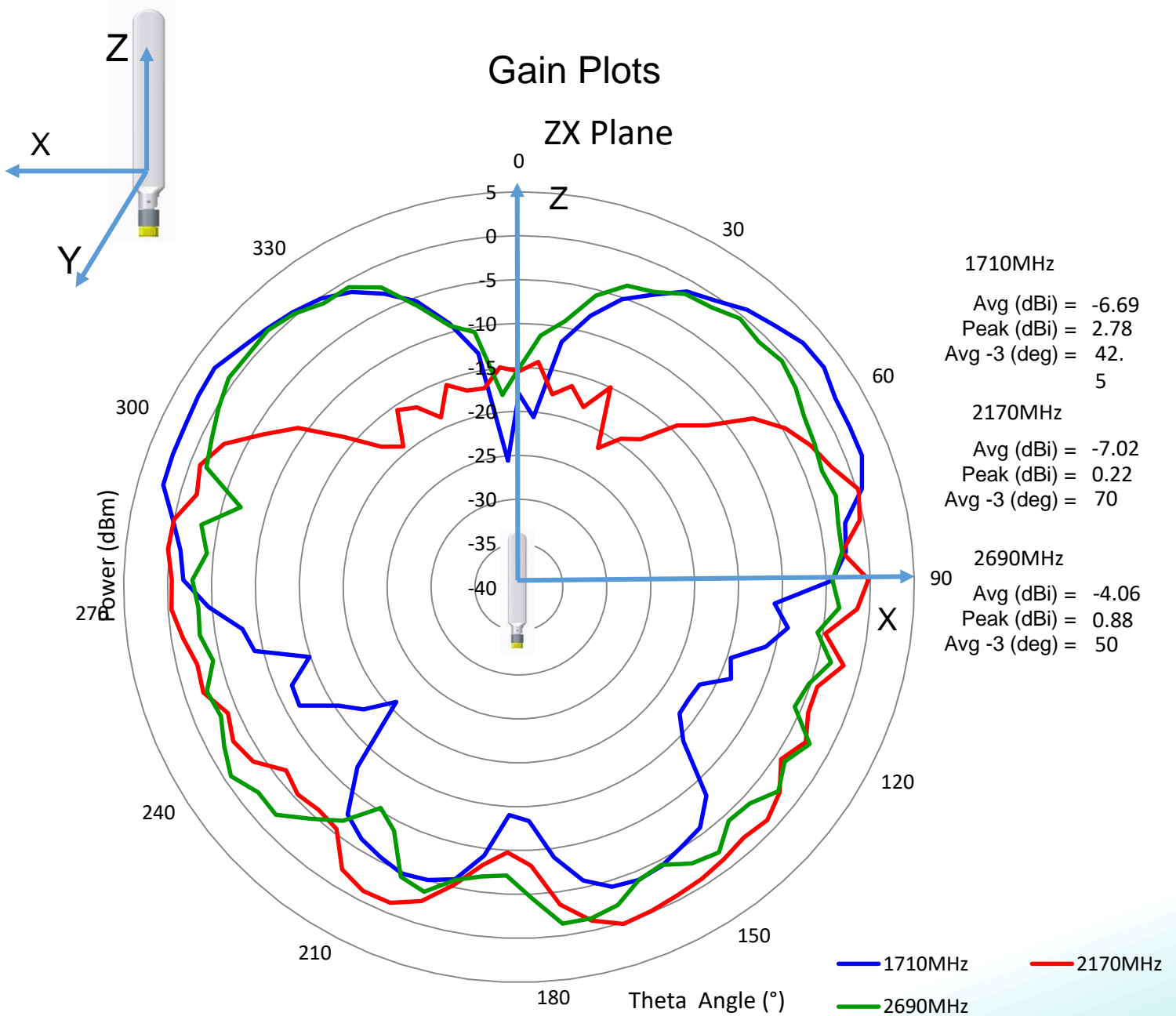
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CHARTS

Gain Plots

ZX Plane



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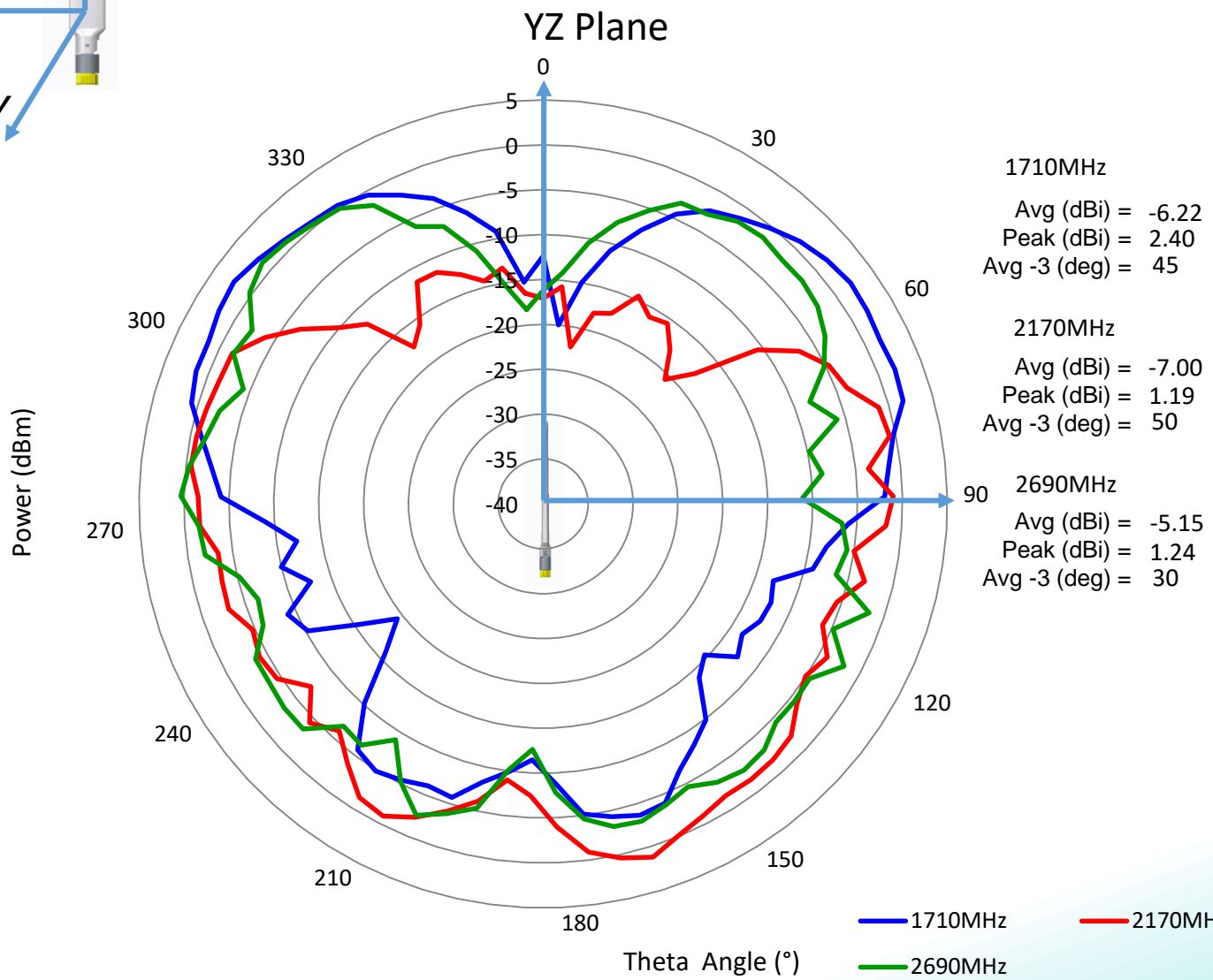
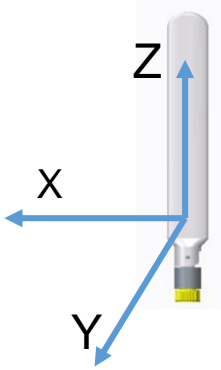
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PACKAGING

Pack each antenna into PE bag, 100 antenna in one box

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