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PulseLARSEN Antennas

TECHNICAL DATA SHEET

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

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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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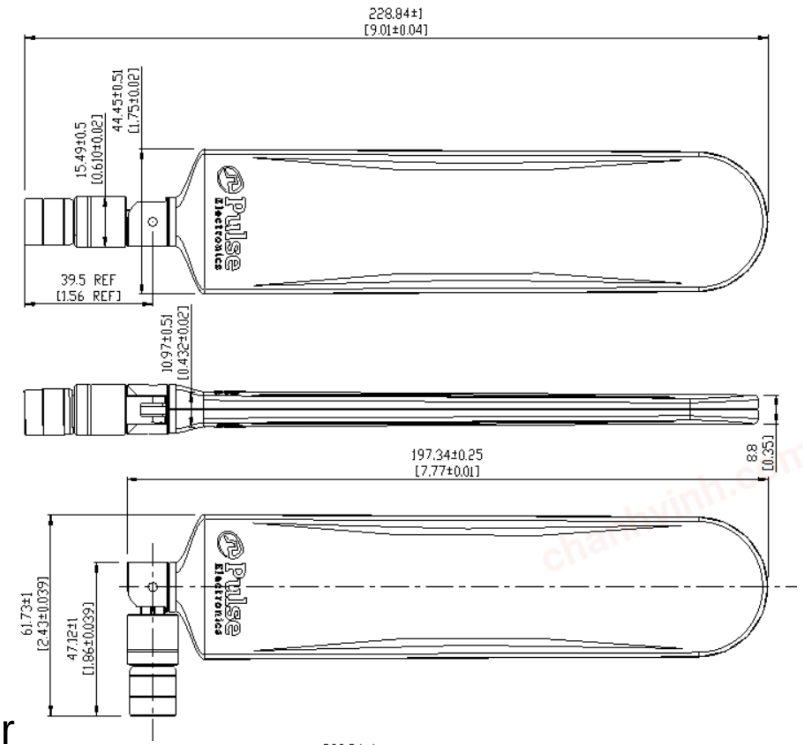
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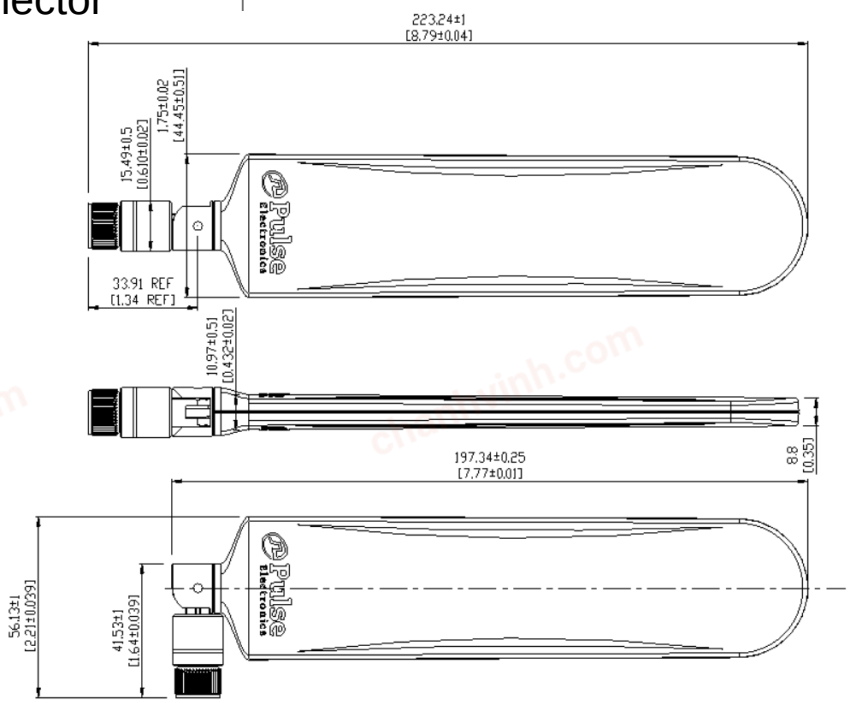
PART NUMBER: W5084x

MECHANICAL DRAWING

W5084 TNC male connector



W5084K SMA male connector



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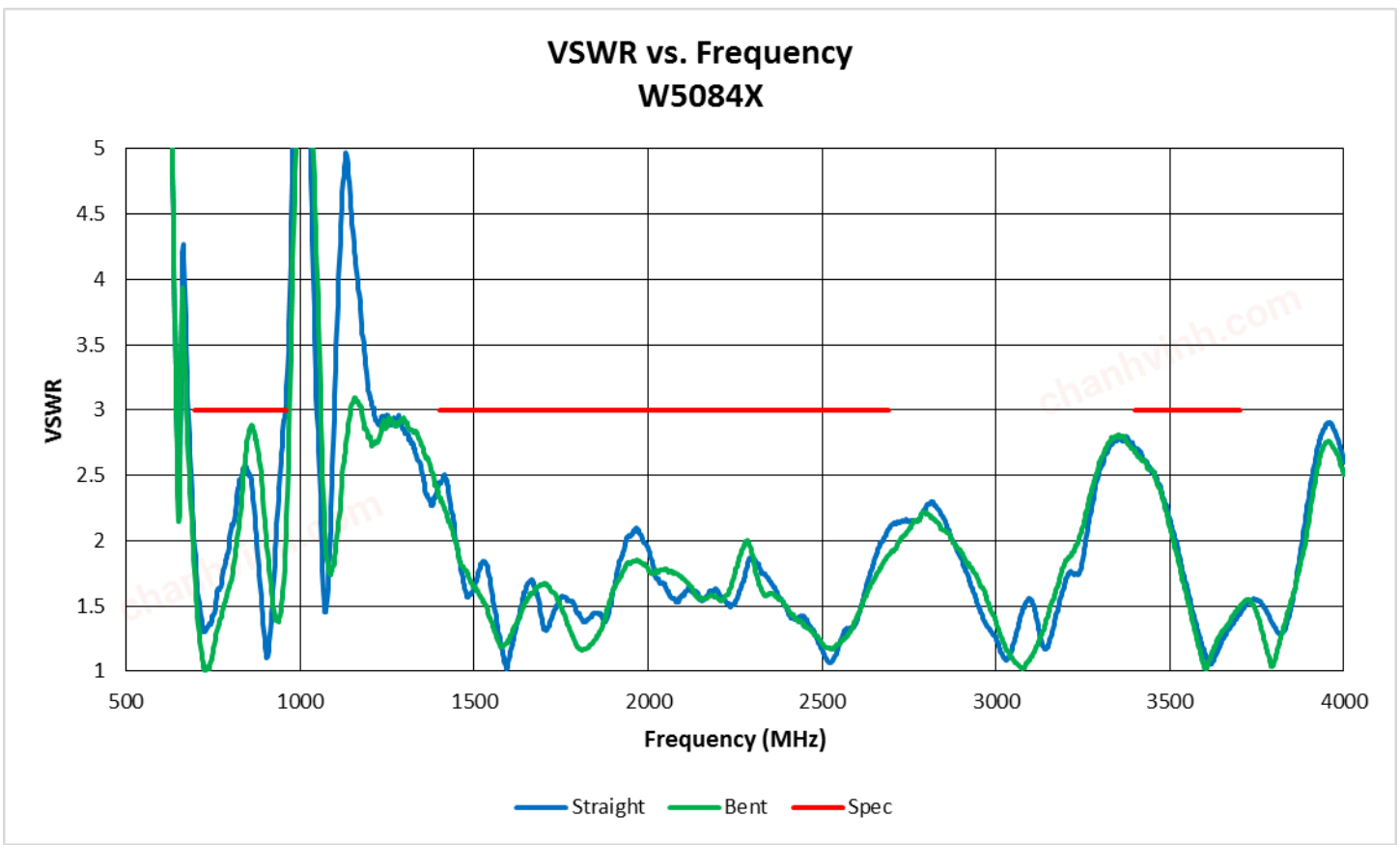
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CHARTS

VSWR



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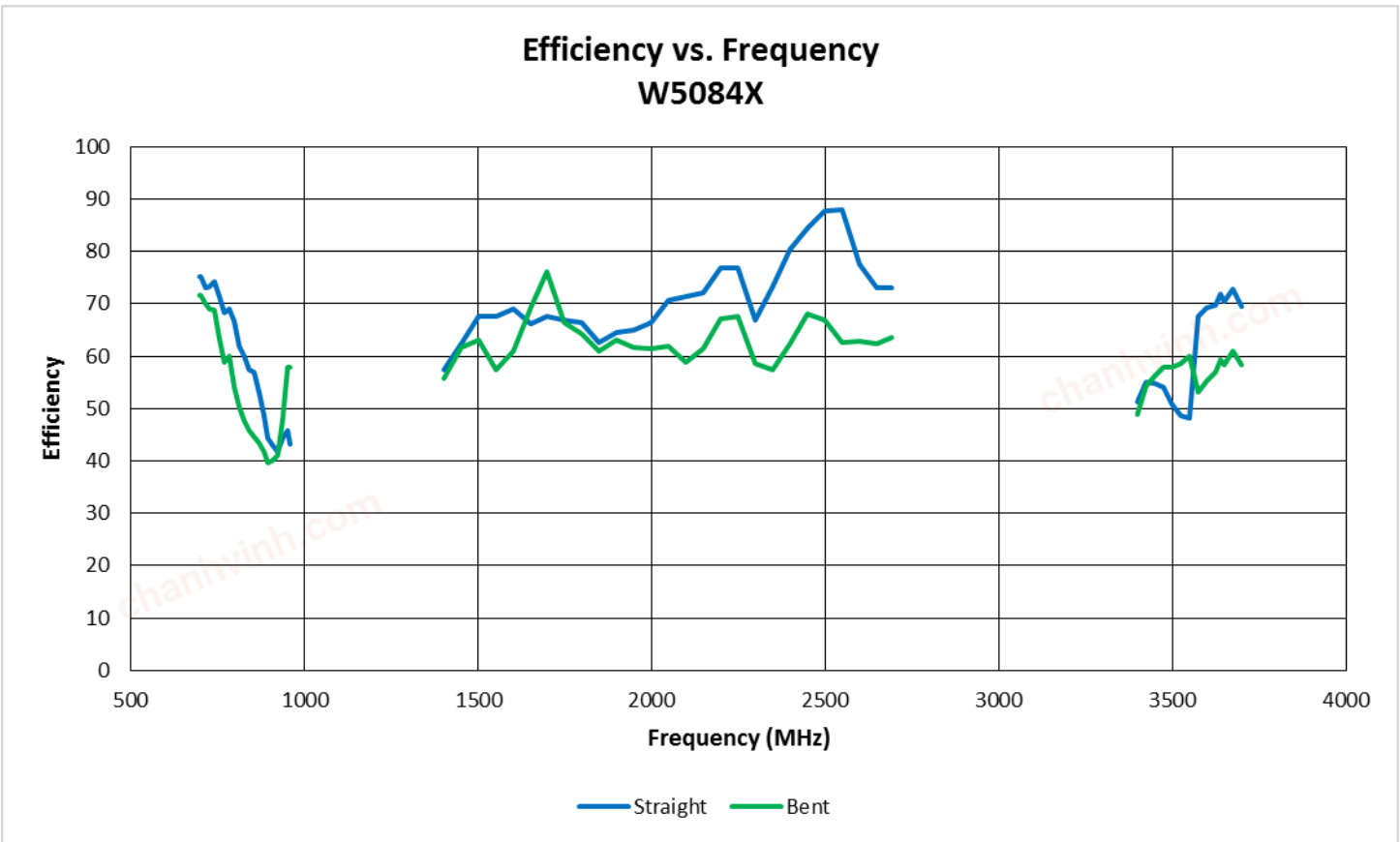
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CHARTS

Efficiency



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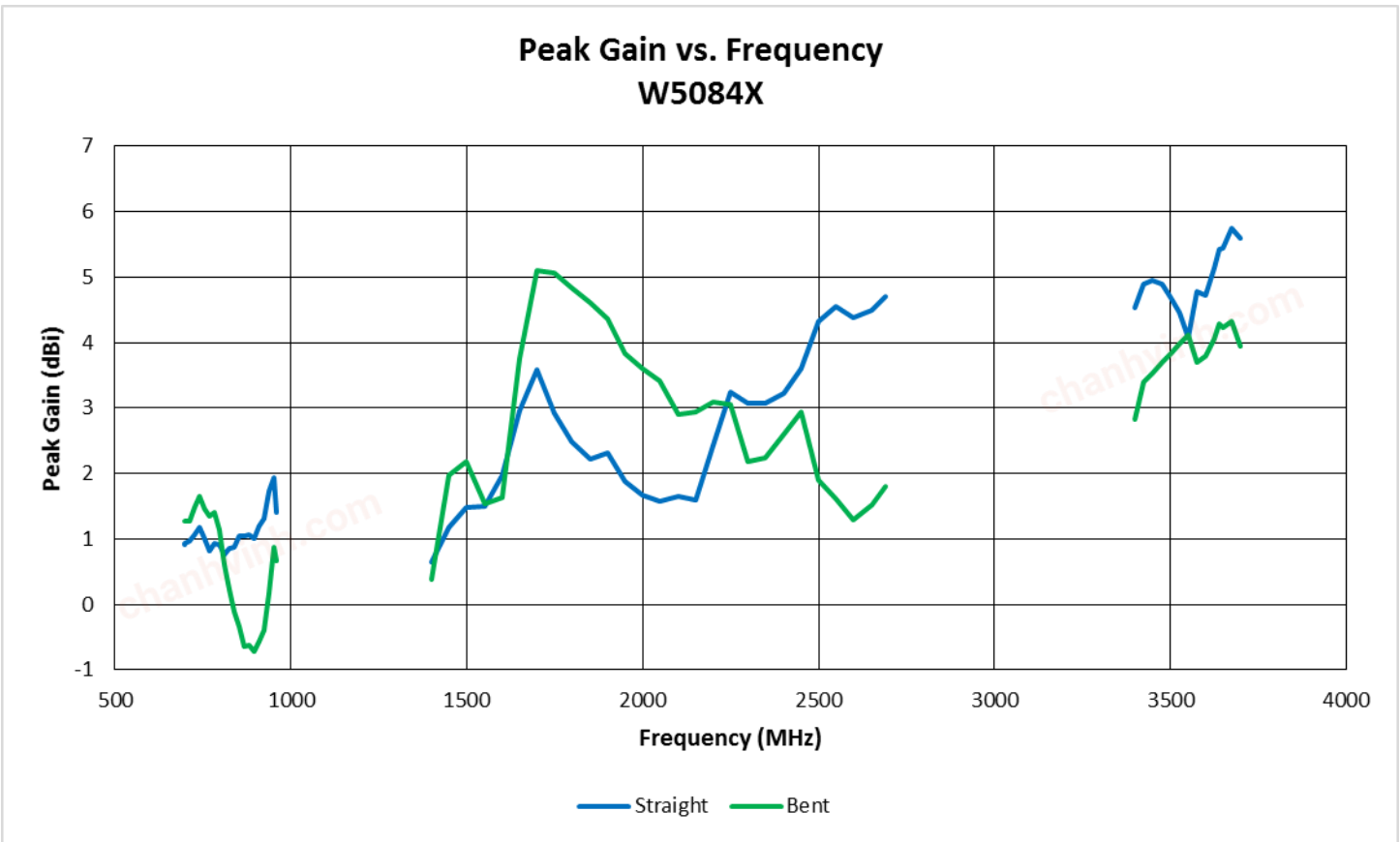
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CHARTS

Peak Gain



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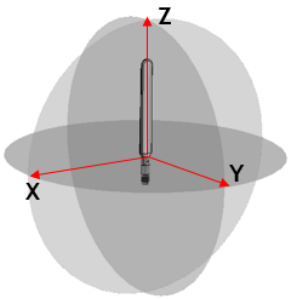
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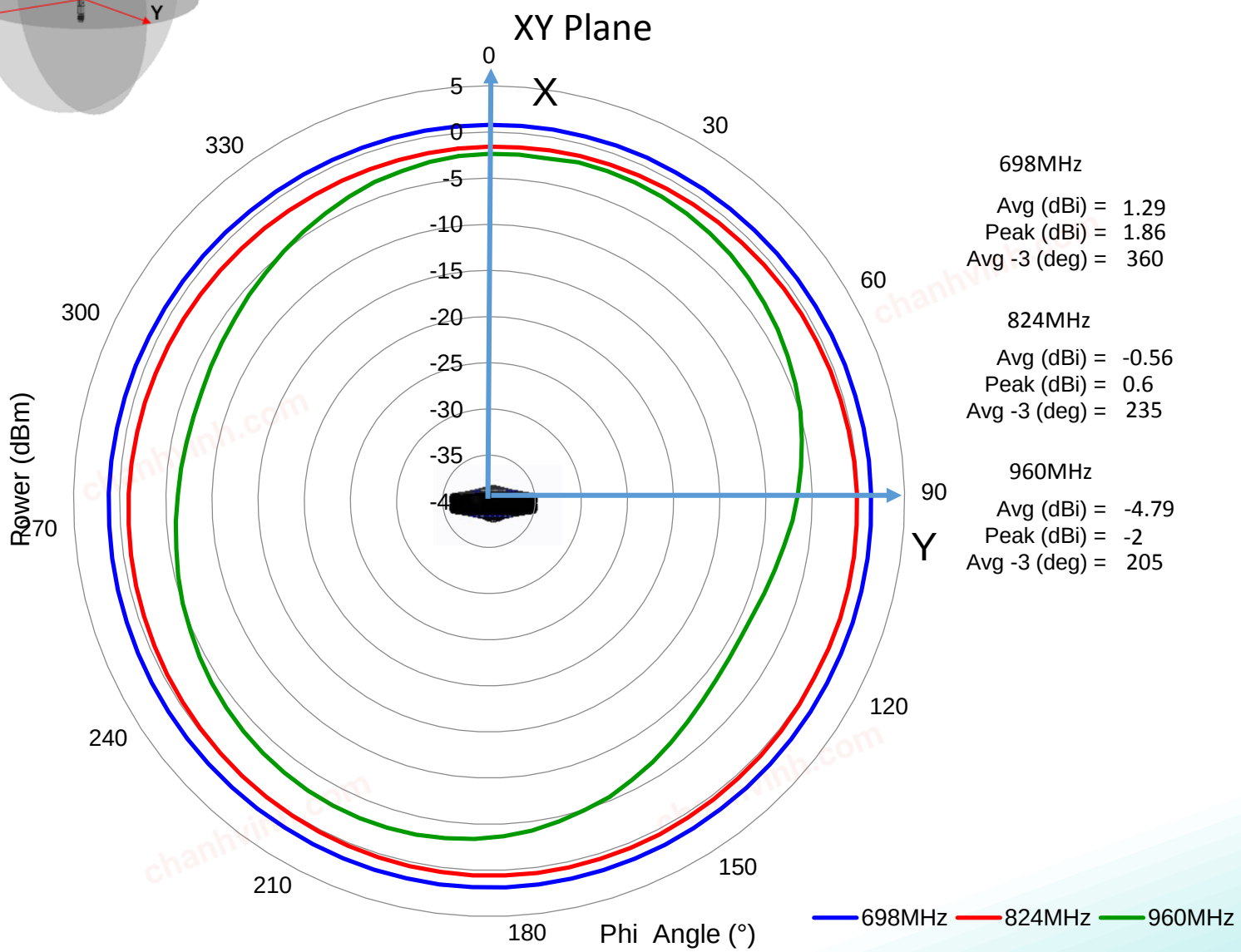
Series: OMNI Antenna

PART NUMBER: W5084x

CHARTS



Gain Plots



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

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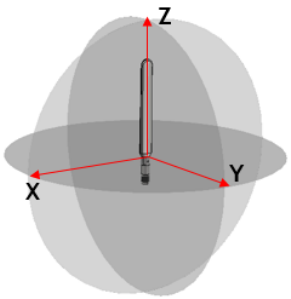
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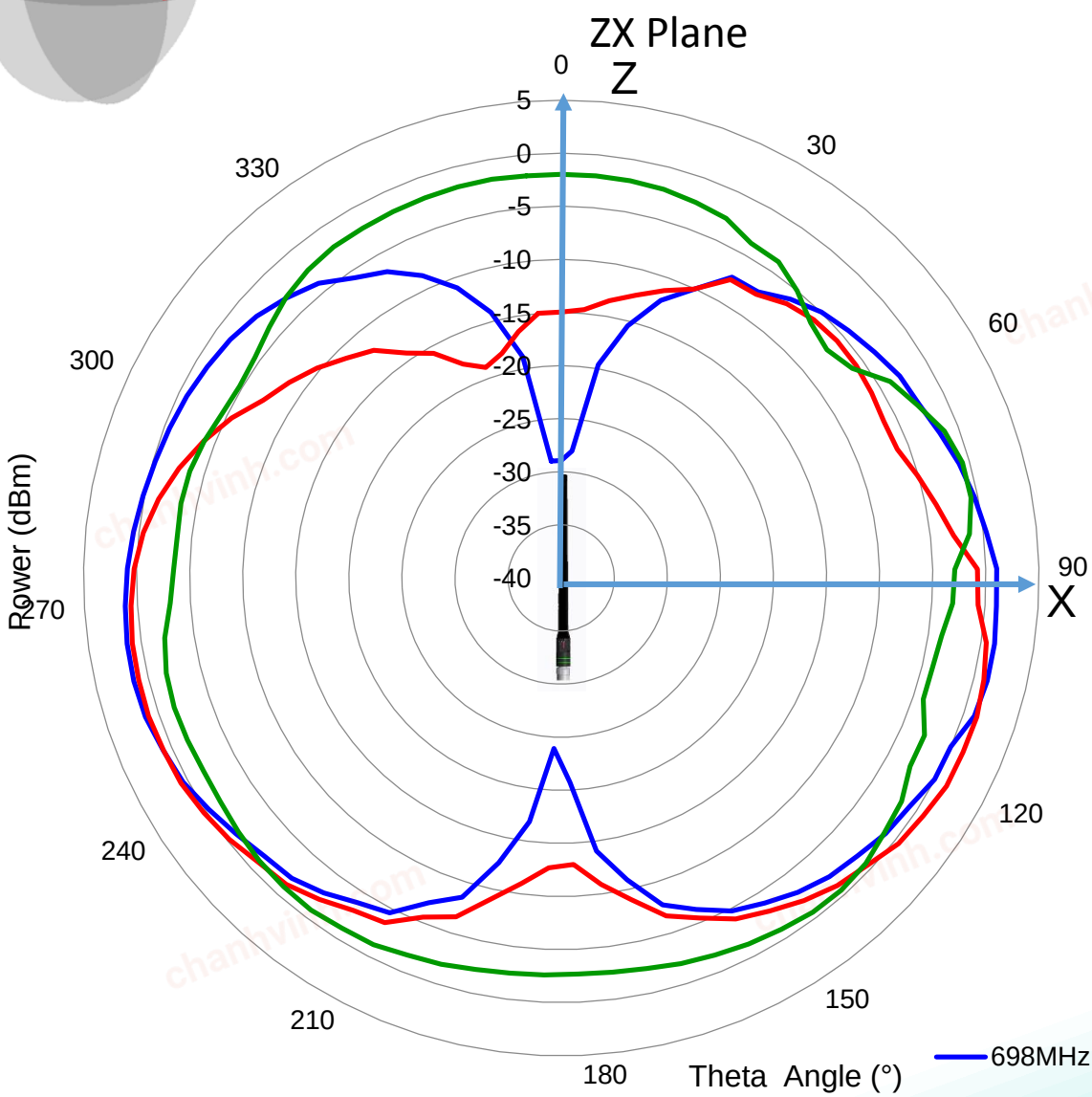
Series: OMNI Antenna

PART NUMBER: W5084x

CHARTS



Gain Plots



698MHz	
Avg (dBi) =	-5.67
Peak (dBi) =	1.40
Avg -3 (deg) =	135

824MHz	
Avg (dBi) =	-5.91
Peak (dBi) =	1.28
Avg -3 (deg) =	115

960MHz	
Avg (dBi) =	-2.63
Peak (dBi) =	-0.5
Avg -3 (deg) =	270

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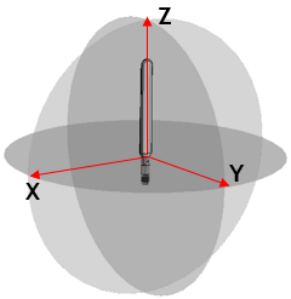
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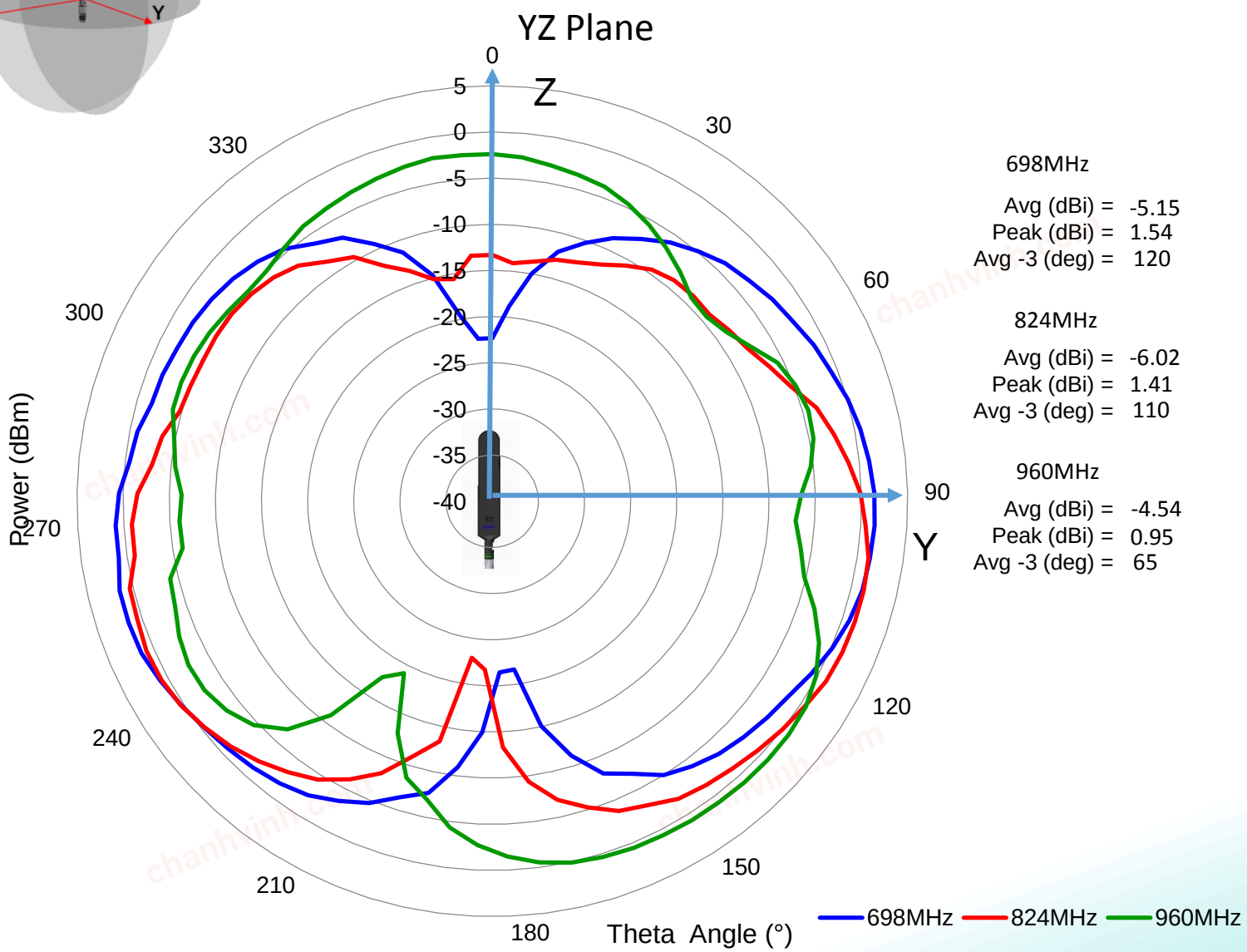
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CHARTS



Gain Plots



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

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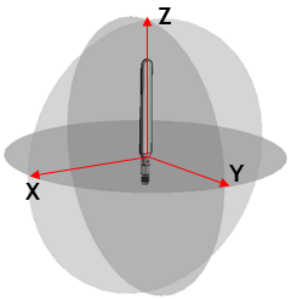
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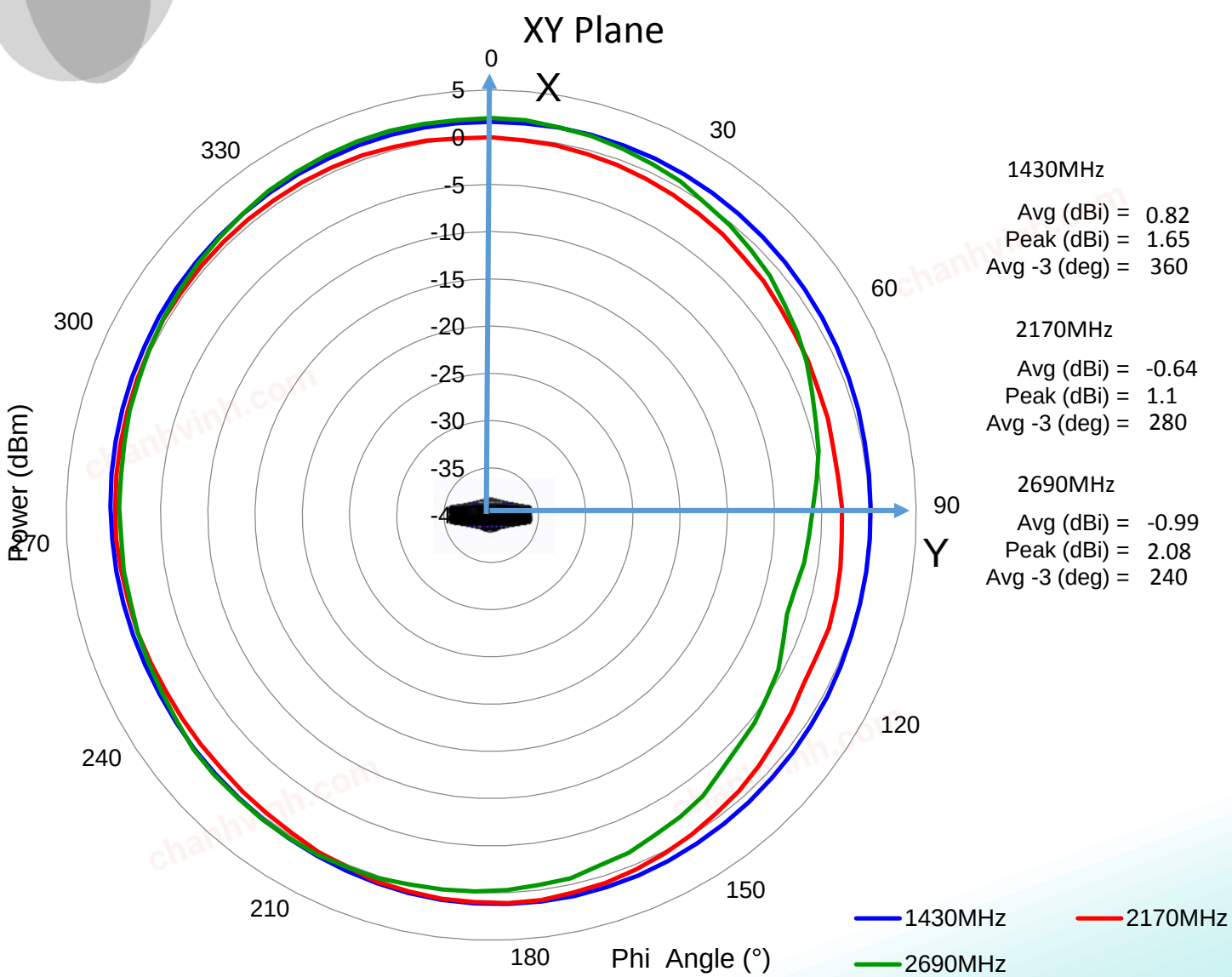
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CHARTS



Gain Plots



1430MHz

Avg (dBi) =	0.82
Peak (dBi) =	1.65
Avg -3 (deg) =	360

2170MHz

Avg (dBi) =	-0.64
Peak (dBi) =	1.1
Avg -3 (deg) =	280

2690MHz

Avg (dBi) =	-0.99
Peak (dBi) =	2.08
Avg -3 (deg) =	240

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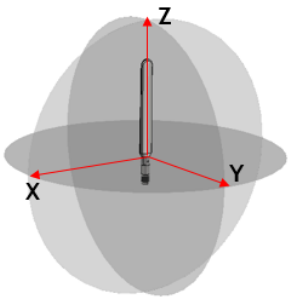
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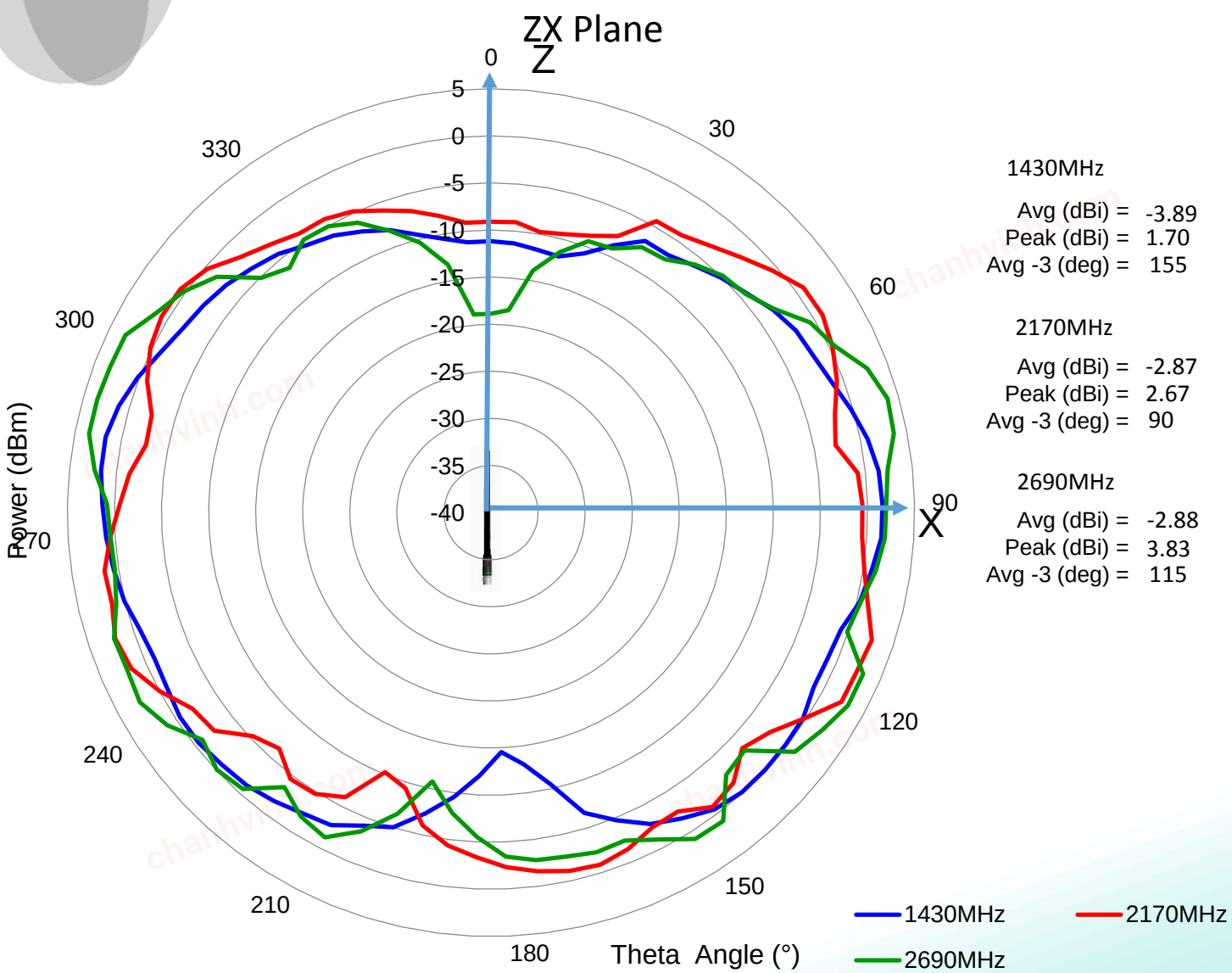
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CHARTS



Gain Plots



1430MHz

Avg (dBi) = -3.89
Peak (dBi) = 1.70
Avg -3 (deg) = 155

2170MHz

Avg (dBi) = -2.87
Peak (dBi) = 2.67
Avg -3 (deg) = 90

2690MHz

Avg (dBi) = -2.88
Peak (dBi) = 3.83
Avg -3 (deg) = 115

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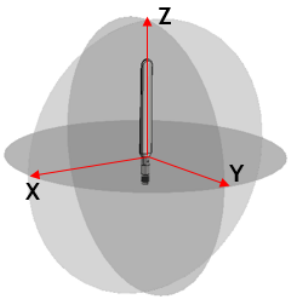
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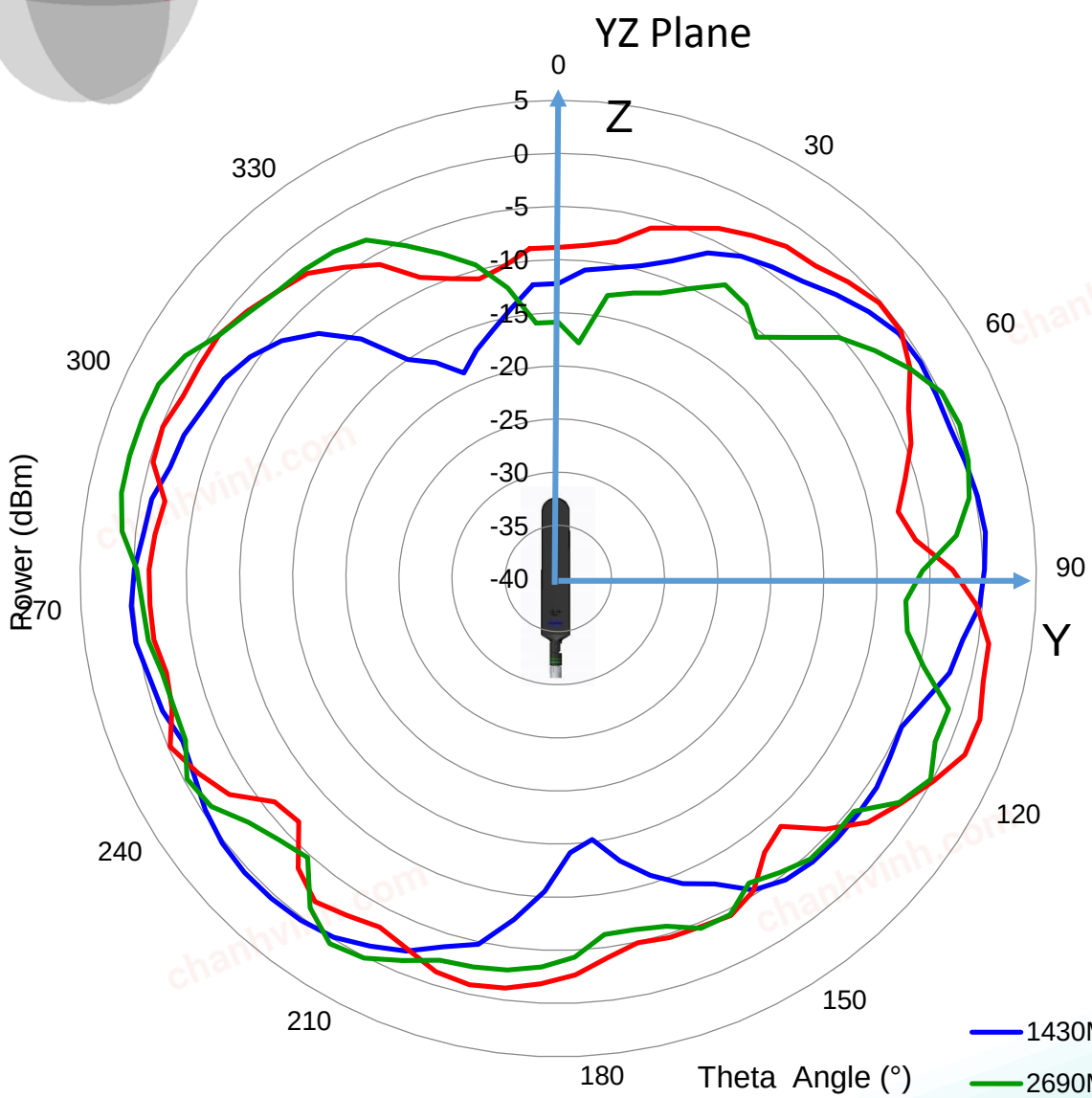
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CHARTS



Gain Plots



1430MHz

Avg (dBi) = -5.31
Peak (dBi) = 0.45
Avg -3 (deg) = 150

2170MHz

Avg (dBi) = -3.61
Peak (dBi) = 1.85
Avg -3 (deg) = 80

2690MHz

Avg (dBi) = -4.28
Peak (dBi) = 1.96
Avg -3 (deg) = 90

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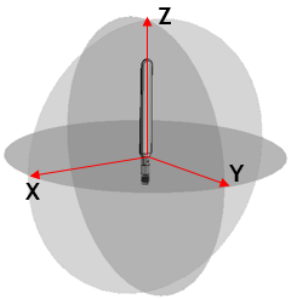
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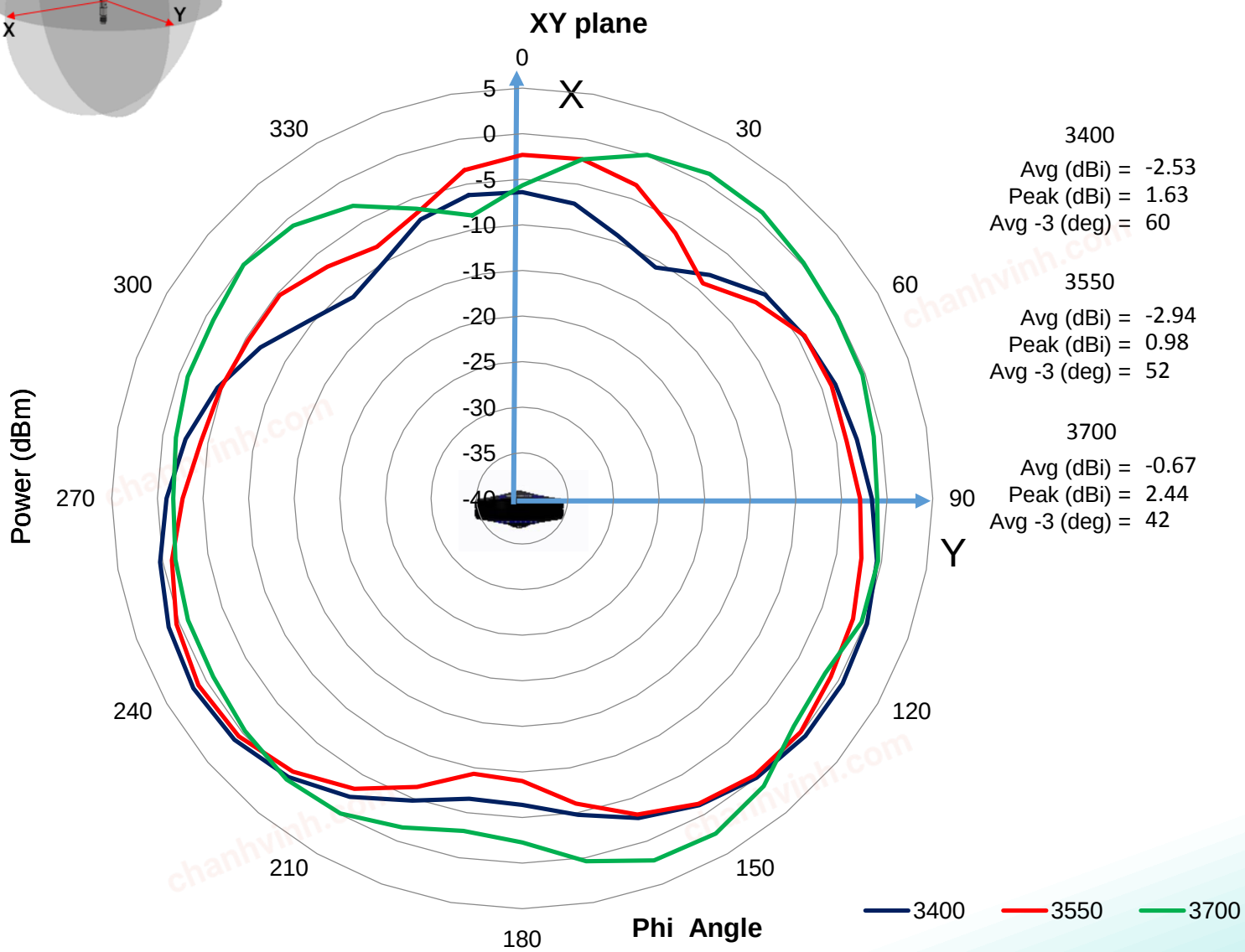
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CHARTS



Gain Plots



3400	
Avg (dBi) =	-2.53
Peak (dBi) =	1.63
Avg -3 (deg) =	60

3550	
Avg (dBi) =	-2.94
Peak (dBi) =	0.98
Avg -3 (deg) =	52

3700	
Avg (dBi) =	-0.67
Peak (dBi) =	2.44
Avg -3 (deg) =	42

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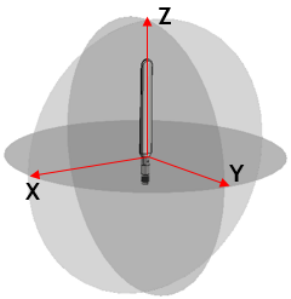
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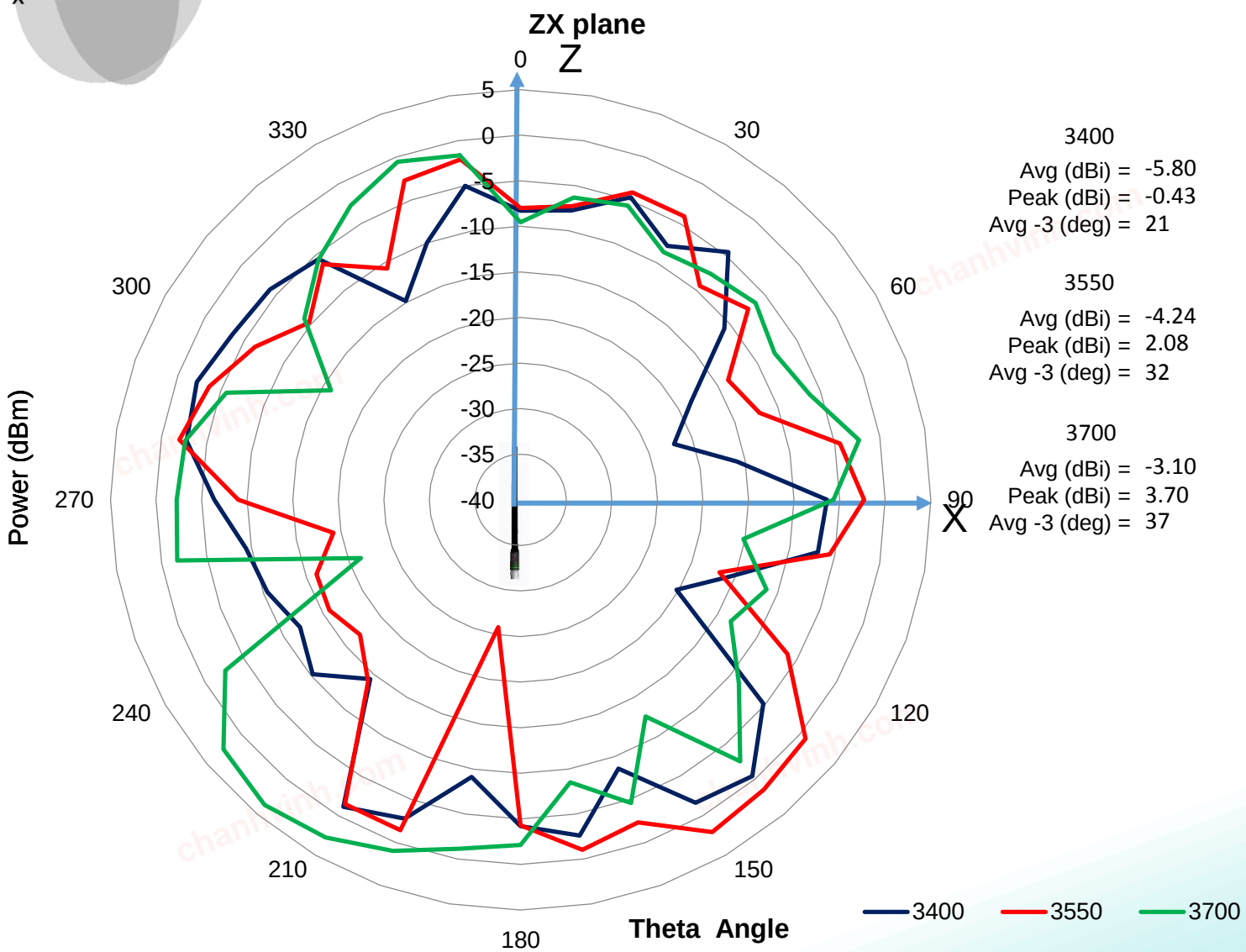
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Gain Plots



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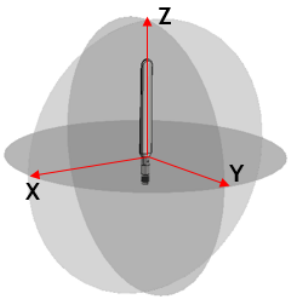
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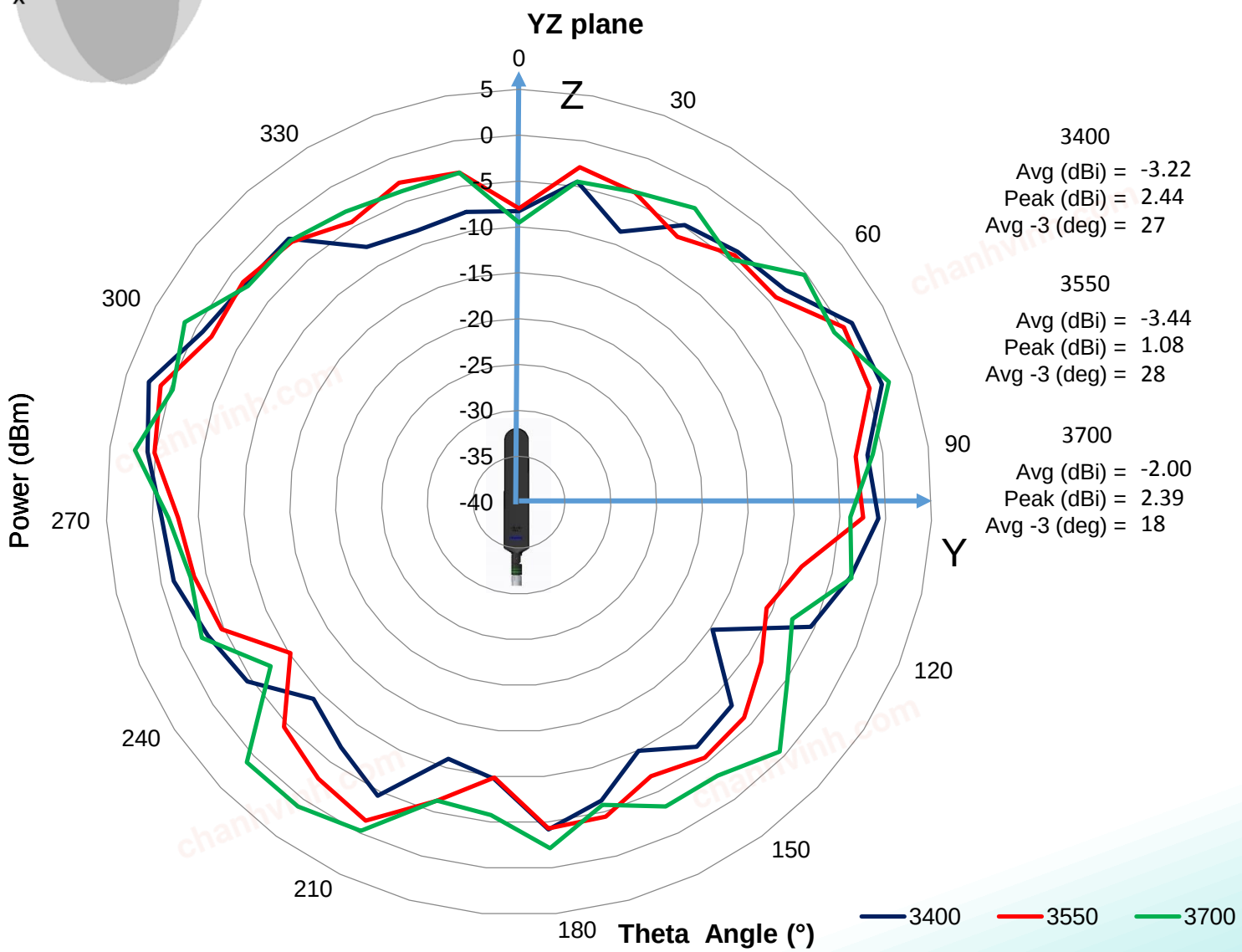
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CHARTS



Gain Plots



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TECHNICAL DATA SHEET

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PACKAGING

1PCS/PE bag
100PCS/Carton box

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