

Description: LTE698-960/1710-2690MHzSMA

Series: ICEBLADE

PART NUMBER: ICEBLADELS

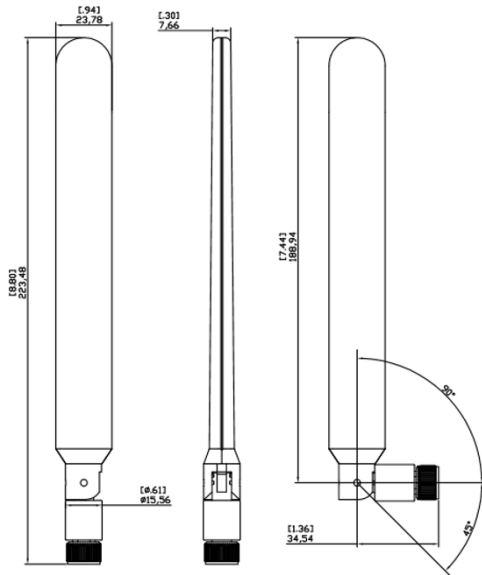


**Features:**

- 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**

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Tel: 86 512 6807 9998



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**ELECTRICAL SPECIFICATIONS**

Frequency	698-960/1710-2690	MHz
Nominal Impedance	50	$\Omega$
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																										
MOB	Description	Reliability Test Spec according to WIHS7.5.33 (Reliability Test Working Instruction) Default test standard is Test Standard A if no definition	<table border="1" style="font-size: 8px;"> <tr> <th rowspan="2">ITEM</th> <th colspan="8">RoHS</th> </tr> <tr> <th>Cd</th> <th>Hg</th> <th>Pb</th> <th>PPM&lt;</th> <th>PBB</th> <th>PBDE</th> <th colspan="2">OTHERS</th> </tr> <tr> <td>PPM&lt;</td> <td>100</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> <td colspan="2"></td> </tr> </table>	ITEM	RoHS								Cd	Hg	Pb	PPM<	PBB	PBDE	OTHERS		PPM<	100	1000	1000	1000	1000	1000						
ITEM	RoHS																																
	Cd	Hg	Pb	PPM<	PBB	PBDE	OTHERS																										
PPM<	100	1000	1000	1000	1000	1000																											
A	A release																																

**NOTES: UNLESS OTHERWISE SPECIFIED**

- INTERPRET THIS SPECIFICATION PER PULSE PQ: 7.004.000 AND STANDARDS REFERENCED THEREIN.

**ELECTRICAL SPECIFICATIONS:**

- FREQ: MULTI BAND - 698-960/1710-2690 MHz
- VSWR: MULTI BAND - 2.5:1 MAX
- GAIN: 0 MIN-2 MAX dBi
- POWER WITHSTANDING: 3W

**ENVIRONMENTAL:**

- OPERATING TEMP: -40/+70 C°
- VIBRATION: 5-500 Hz FREQ, MIL STD 810 G section 514.6
- THERMAL SHOCK: 3 CYCLES MIL-STD 810G Method 503.4
- HUMIDITY: +30° @ 93% RH MIL-STD 810G Method 507.4
- DROP TEST: 1 METER, 1 DROP, 1 PER AXIS.

ITEM	QTY	PART NUMBER	DESCRIPTION
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

PULSE (SUZHOU) WIRELESS PRODUCTS CO.,LTD.		99 HAIJIAO RD, SUZHOU NEW DISTRICT 215009 P.R.CHINA WWW.PULSEELECTRONICS.COM/EN/EN	
PRODUCT(S)	ICEBLADELS	SCALE	1:1
ITEM	ICEBLADELS	DOCUMENT NUMBER	ICEBLADELS
		SHEET NUMBER	1/1
		GENERAL TOLERANCE	
		CUSTOMER NUMBER	
		DESIGN	Jessie Fei
		CHECKED	
		APPROVED	
		PART VERSION	V01
		DOCUMENT VERSION	10
		MOB	01
		DATE	2016/7/19
		NAME	Jessie Fei

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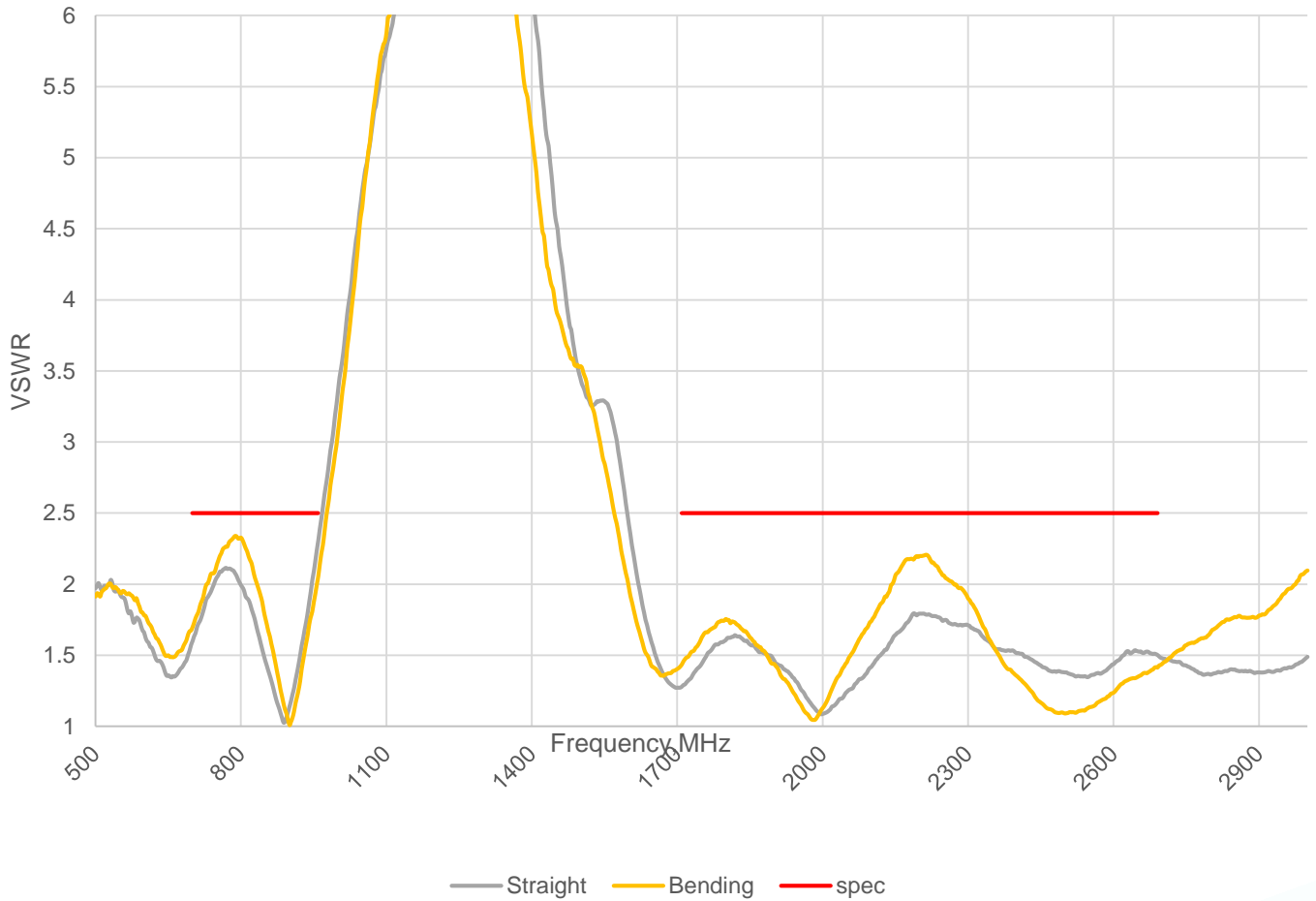
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OTHER SPECIFICATIONS

VSWR

VSWR vs Frequency measured in free space  
IceBladeLS measured in PSU



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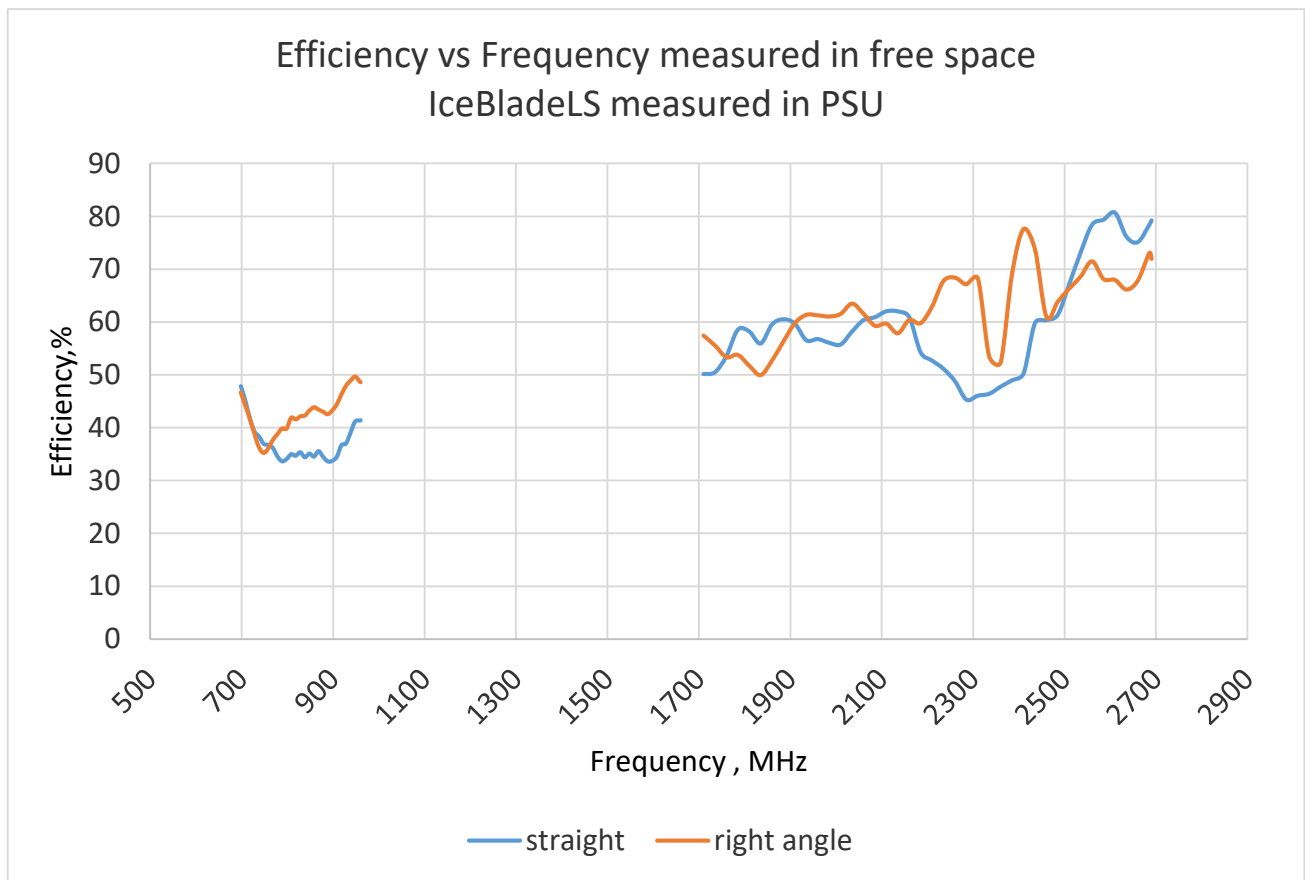
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CHARTS

Efficiency



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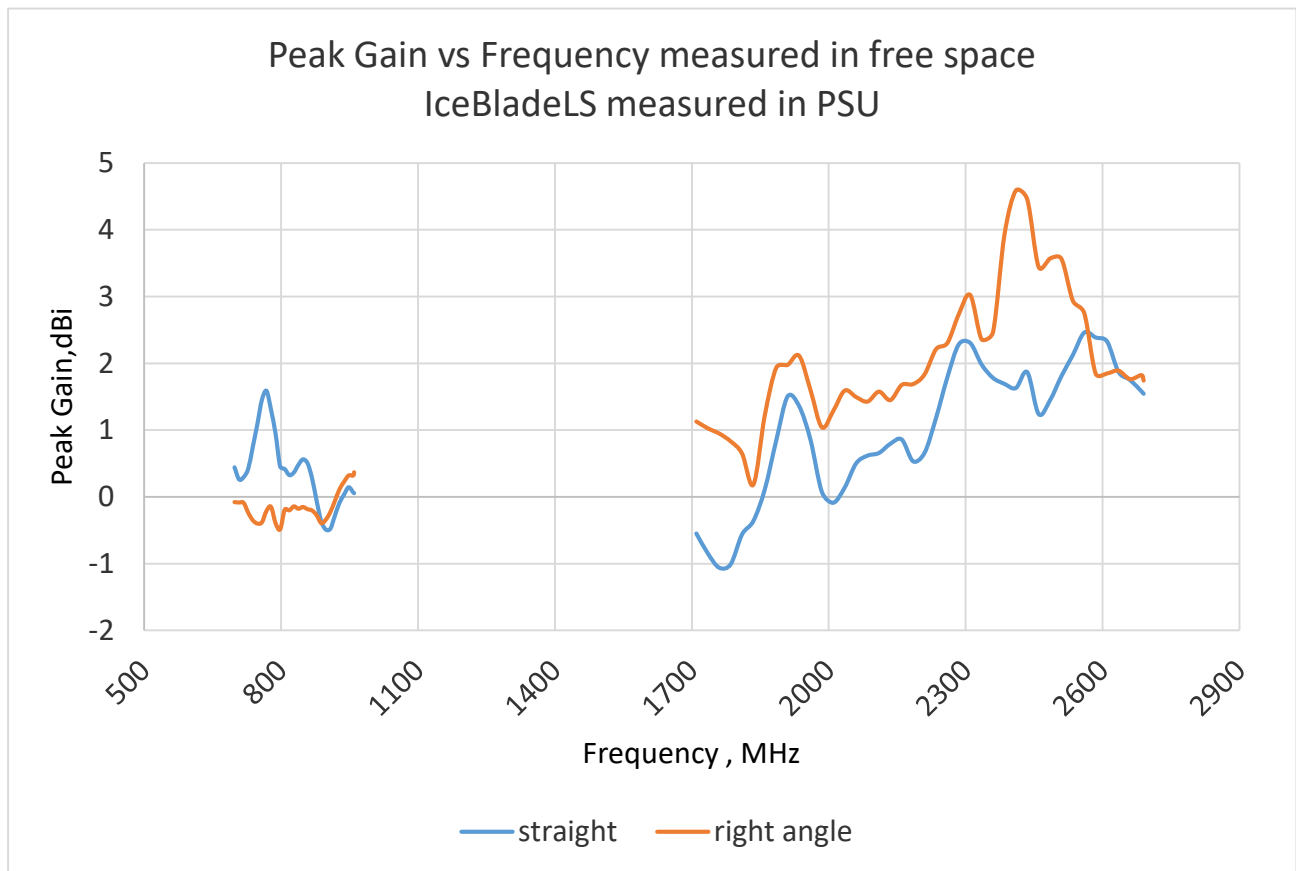
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CHARTS

Peak Gain



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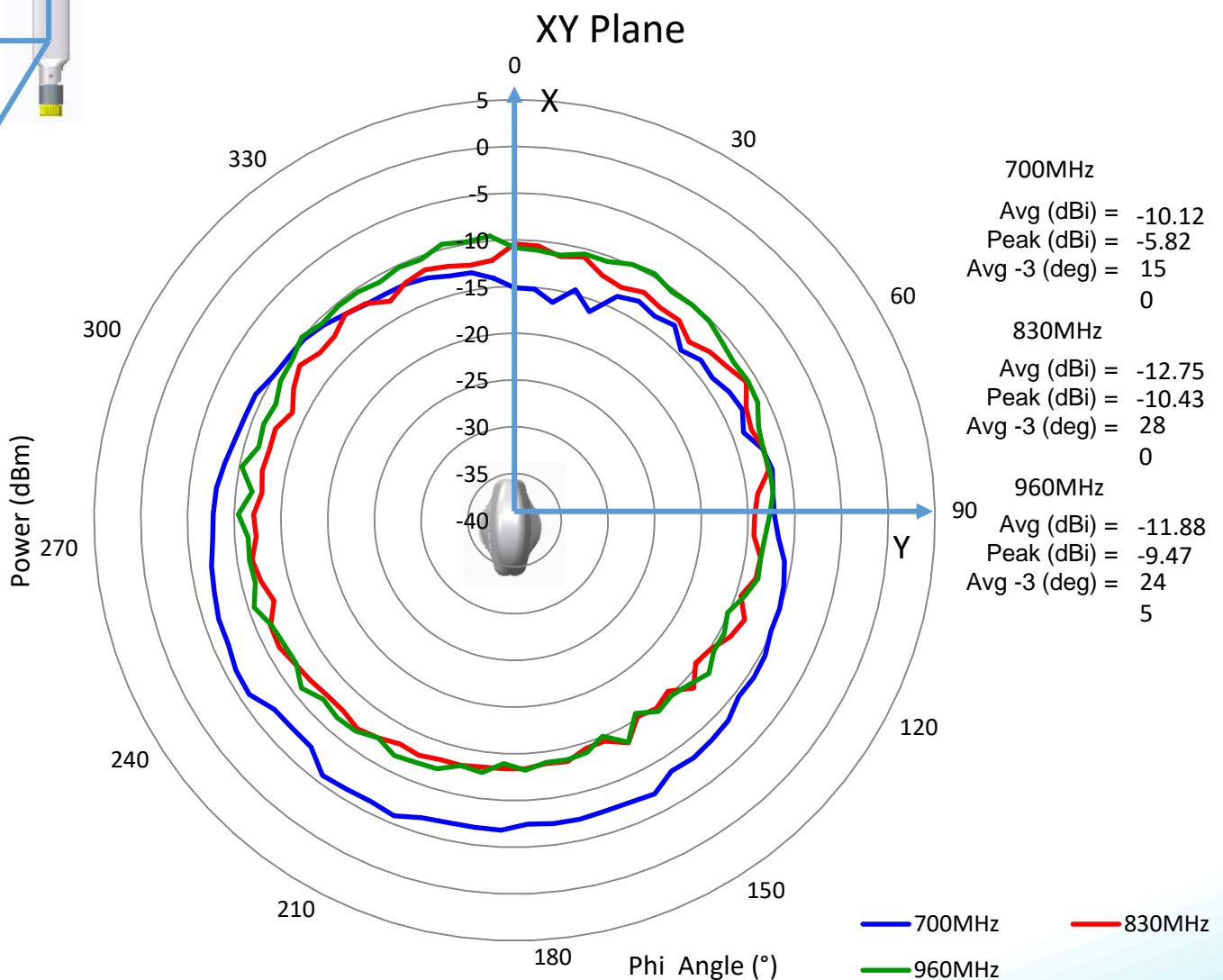
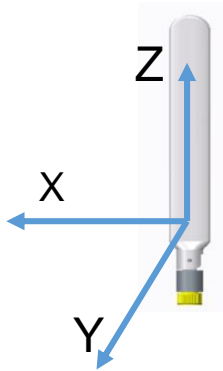
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CHARTS

Gain Plots



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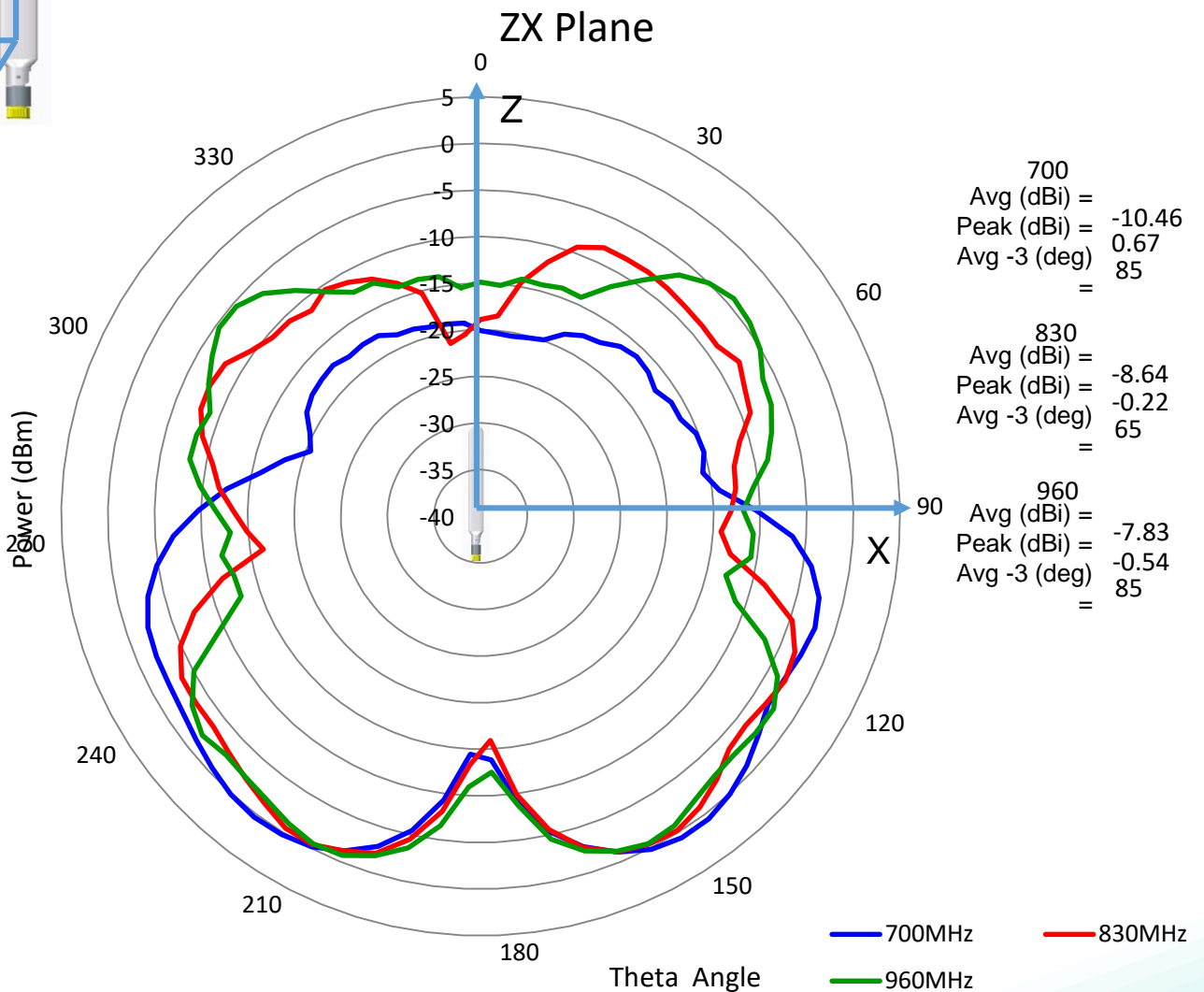
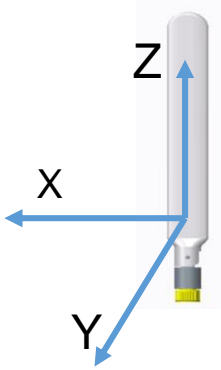
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CHARTS

Gain Plots



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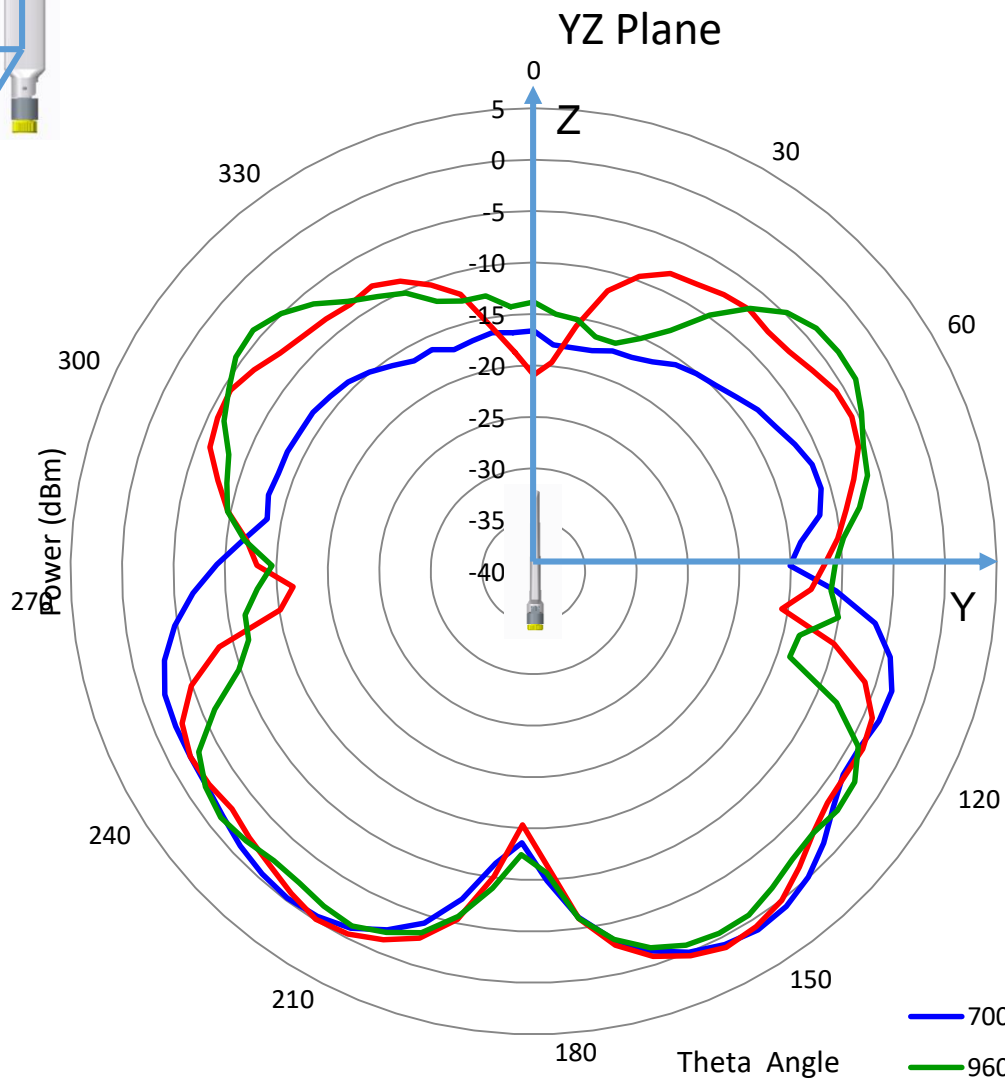
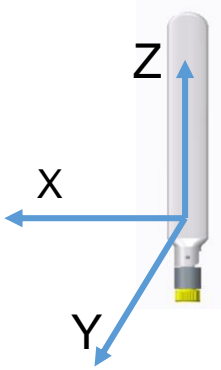
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CHARTS

Gain Plots



700	Avg (dBi) =	-9.23
	Peak (dBi) =	1.12
	Avg -3 (deg)	60
830	Avg (dBi) =	-7.55
	Peak (dBi) =	1.05
	Avg -3 (deg)	50
960	Avg (dBi) =	-7.52
	Peak (dBi) =	-0.46
	Avg -3 (deg)	95

— 700MHz — 830MHz — 960MHz

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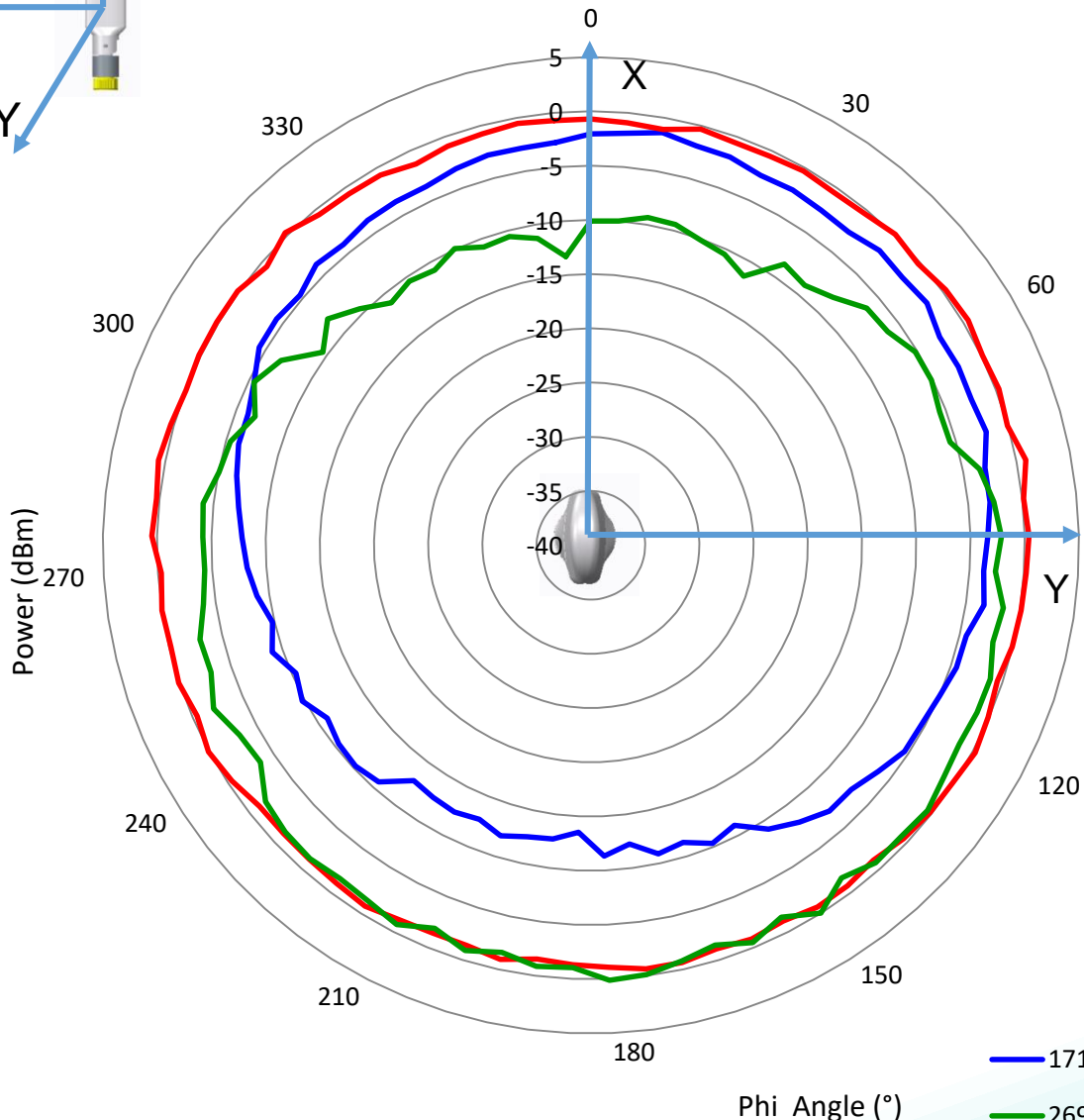
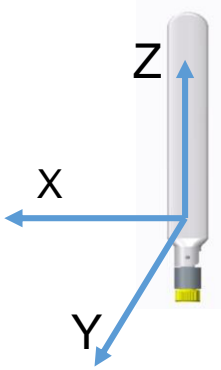
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CHARTS

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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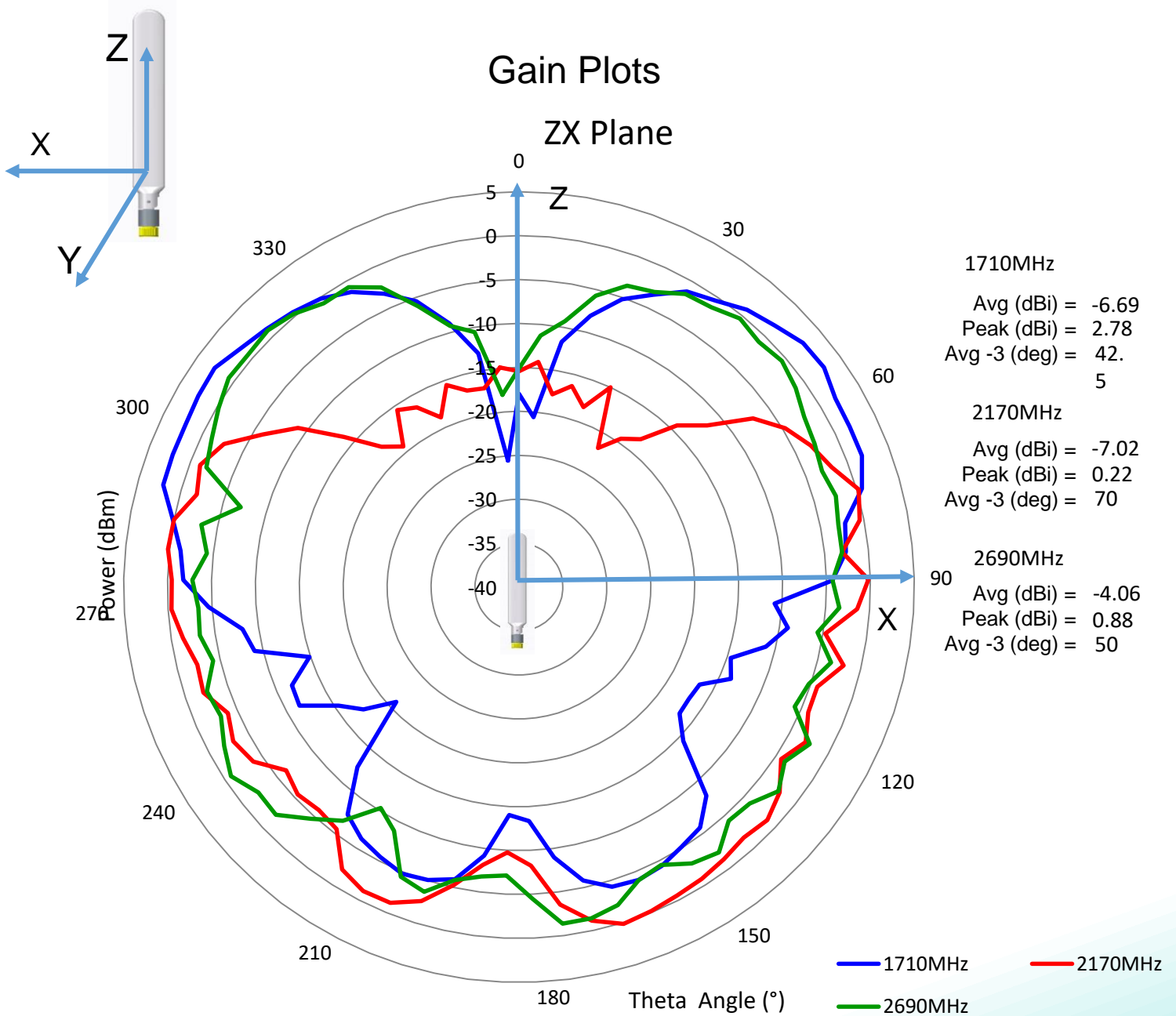
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CHARTS

Gain Plots

ZX Plane



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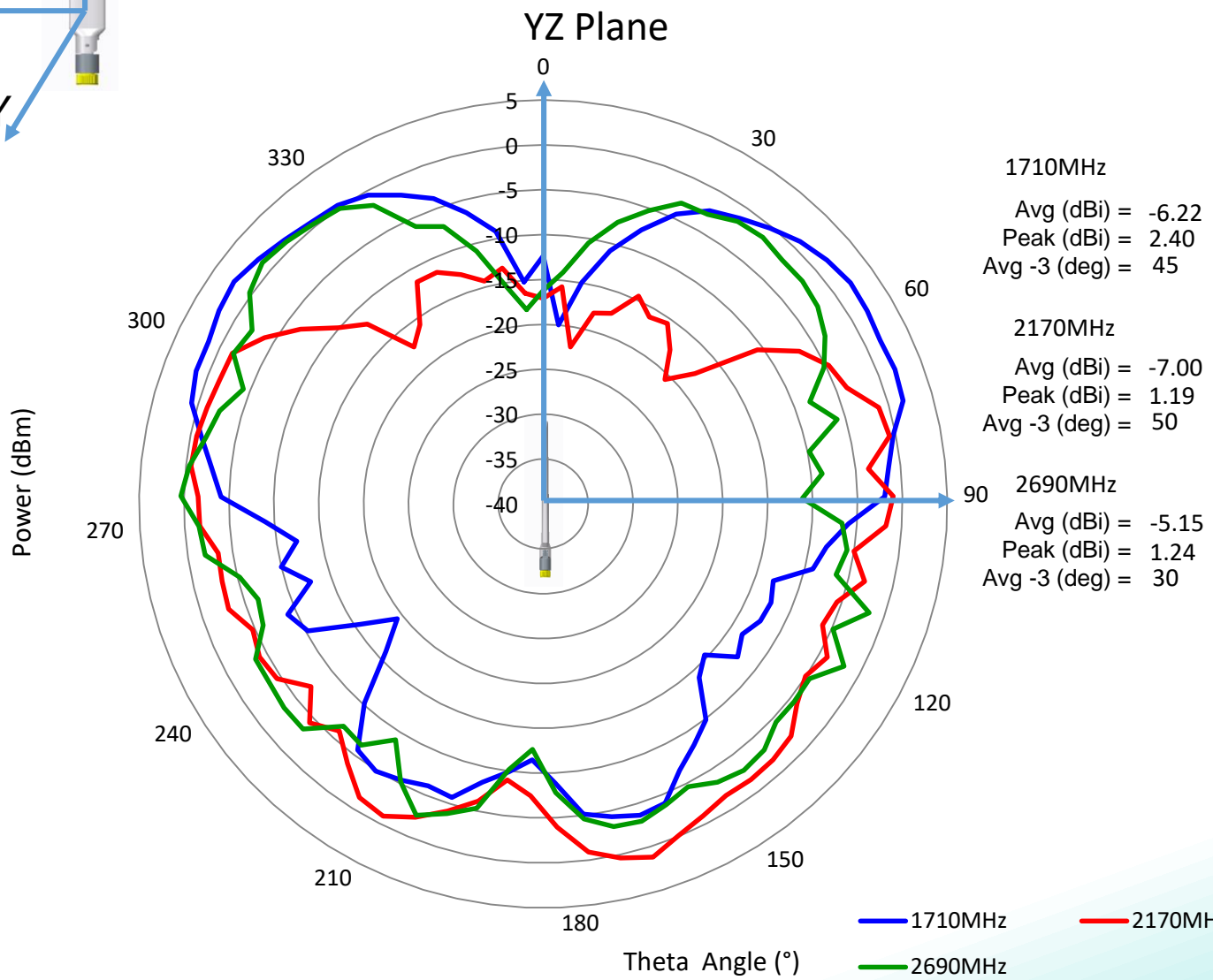
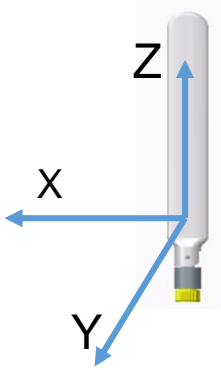
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## PACKAGING

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

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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