

Description: LTE Stealth Blade Antenna

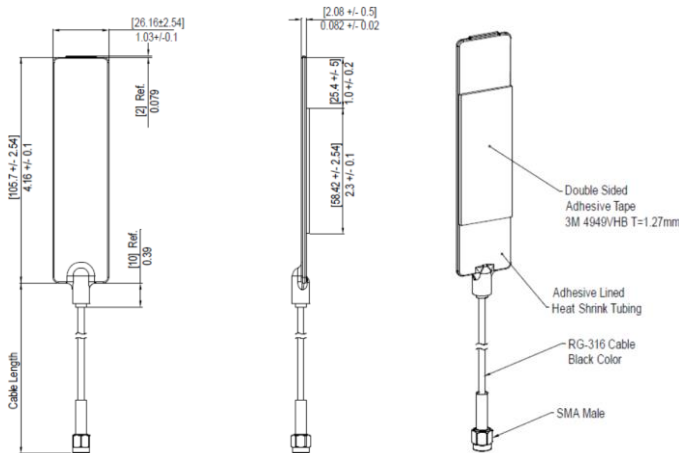
Series: SB Antenna

PART NUMBER: W1991



Features:

- Cost-effective, high-performance solution for LTE 698-2700MHz
- Slim, low-profile without sacrificing mechanical performance
- Multiple cable lengths and connector options
- Adhesive mount
- Flexible board
- IP-67 rating when installed to compliant surface
- RoHS Compliant Product
- Multiple and dual frequency products available



Applications:

- WLAN, LTE and 3G/4G applications
- Public Safety
- IoT - Vending/Smart Metering
- Access Points
- Vehicular (window, dashboard, visor)
- Data transmission

| Projects | Connector | Cable Type | Cable Length | Weight |
|----------|-----------|-----------------|--------------|--------|
| W1991 | SMA Male | RG-316 Black | 10' / 3048mm | 44g |
| W1991AV | | | 2' / 609.6mm | 23g |

All dimensions are in mm / inches

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

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ELECTRICAL SPECIFICATIONS

| | |
|---------------------------------|--|
| Antenna Type | Dipole (Measured with 315mm RG-174 Cable, in free space) |
| Frequency | 698-960/1710-2170/2300-2700MHz |
| Nominal Impedance | 50 Ω |
| VSWR | 2.5:1 Max |
| Peak Gain (698-960) | 2 dBi |
| Peak Gain (1710-2700) | 2 dBi |
| Efficiency (698-960) | 50 % |
| Efficiency (1710-2700) | 60 % |
| HPBW Horizontal Plane | Omni |
| HPBW Vertical Plane (698-960) | 40° |
| HPBW Vertical Plane (1710-2170) | 70° |
| HPBW Vertical Plane (2300-2700) | 55° |
| Polarization | Vertical |
| Power withstanding | 3 W |
| Connector type | Refer to table on Page 1 |
| Cable type | Black RG-316 |
| Length | Refer to table on Page 1 |

Description: LTE Stealth Blade Antenna**Series: SB Antenna****PART NUMBER: W1991****MECHANICAL SPECIFICATIONS**

| | |
|---------------------------|----------------------------------|
| Radome | Adhesive lined polyolefin tubing |
| Color | Black |
| Ingress Protection | IP67 |
| Weight | Refer to table on Page 1 |
| Overall Length | 4.16 INCHES |
| Cable retention: Pull off | 30 N mini |
| Fixing system | Adhesive Tape (3M VHB 4949) |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|--------------|
| Operating temperature | -40 ~ +85° C |
|-----------------------|--------------|

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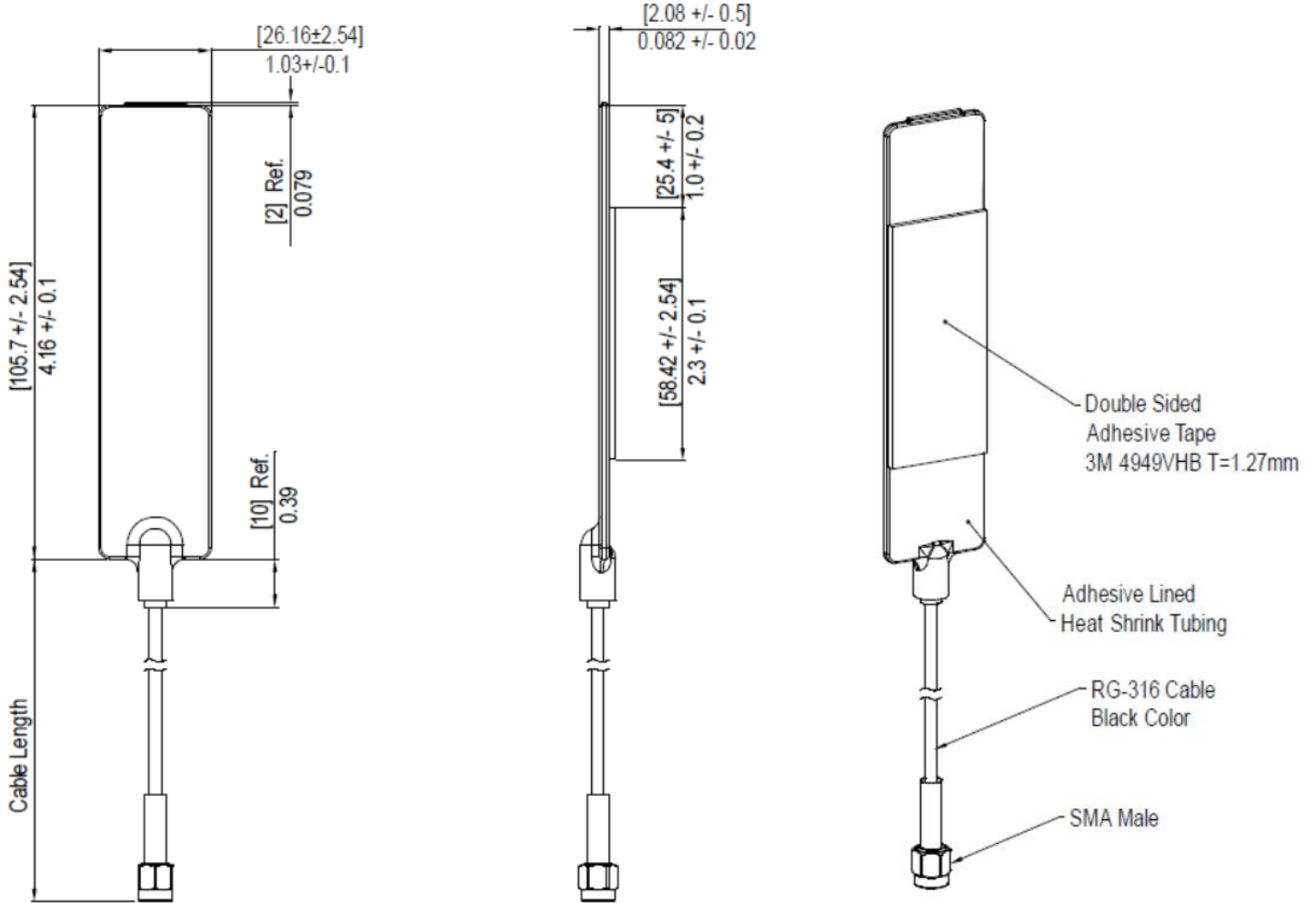
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MECHANICAL DRAWING



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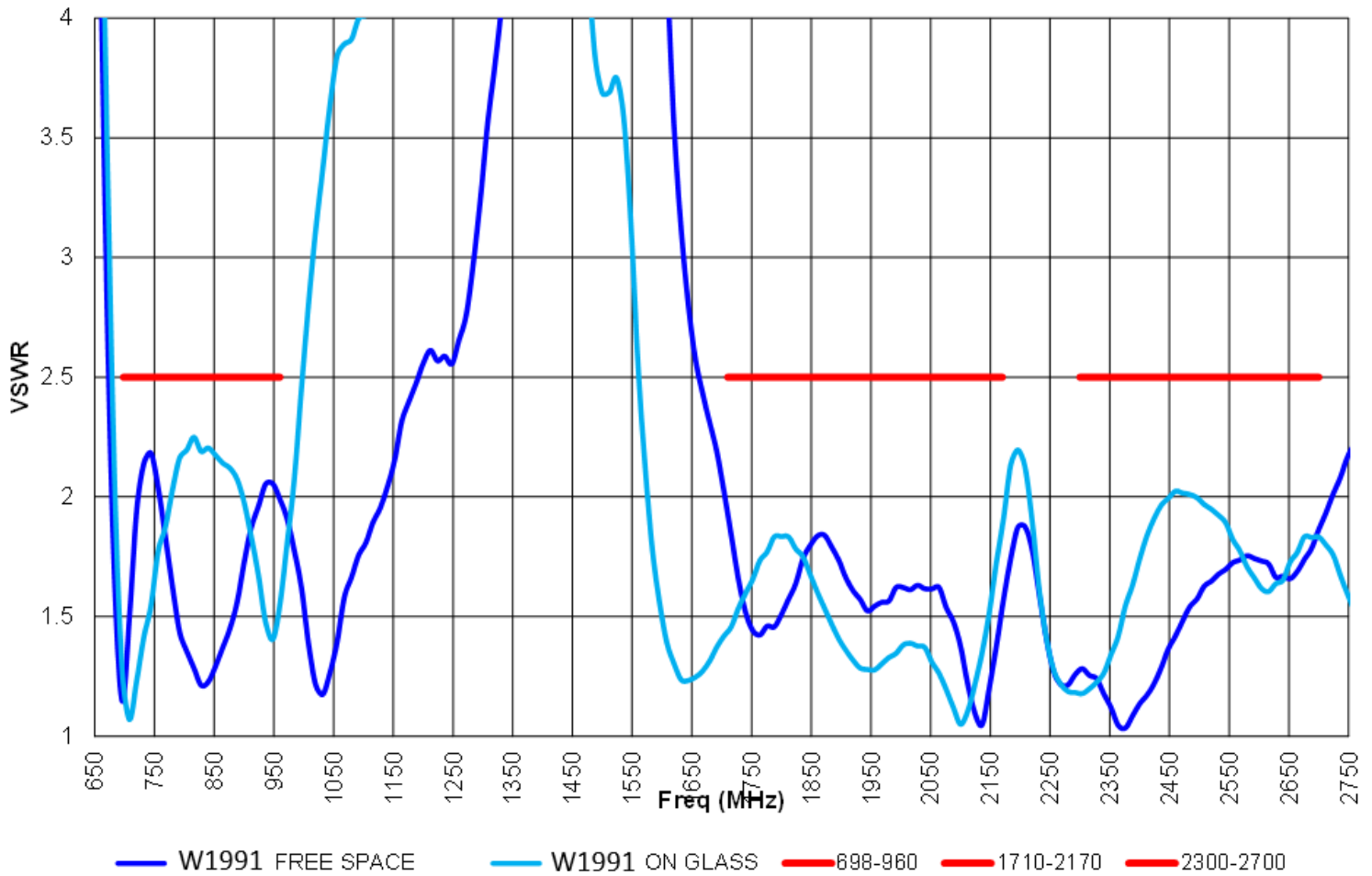
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CHARTS

S11 Parameter Measured with 315mm RG-174 cable



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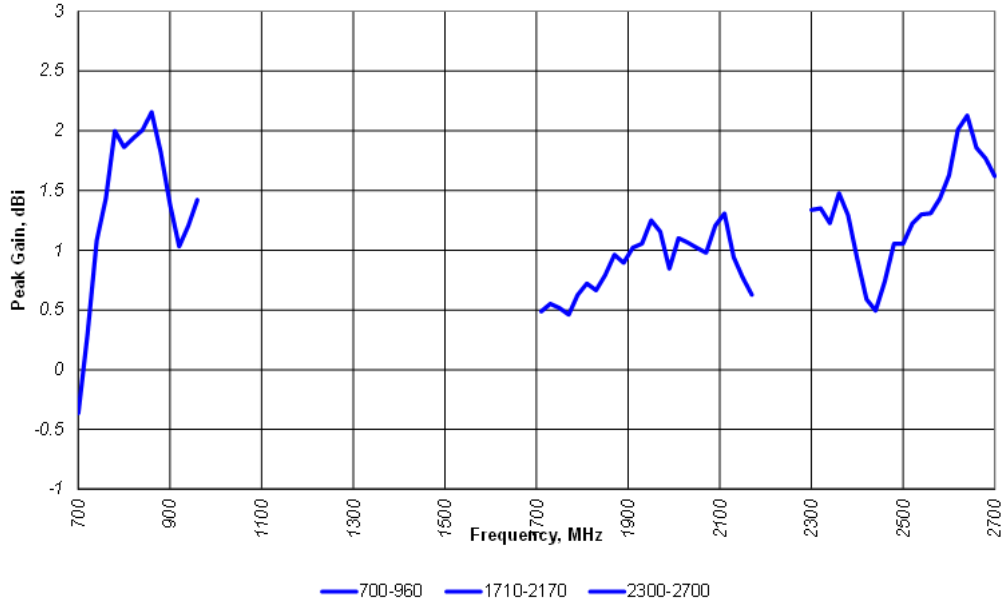
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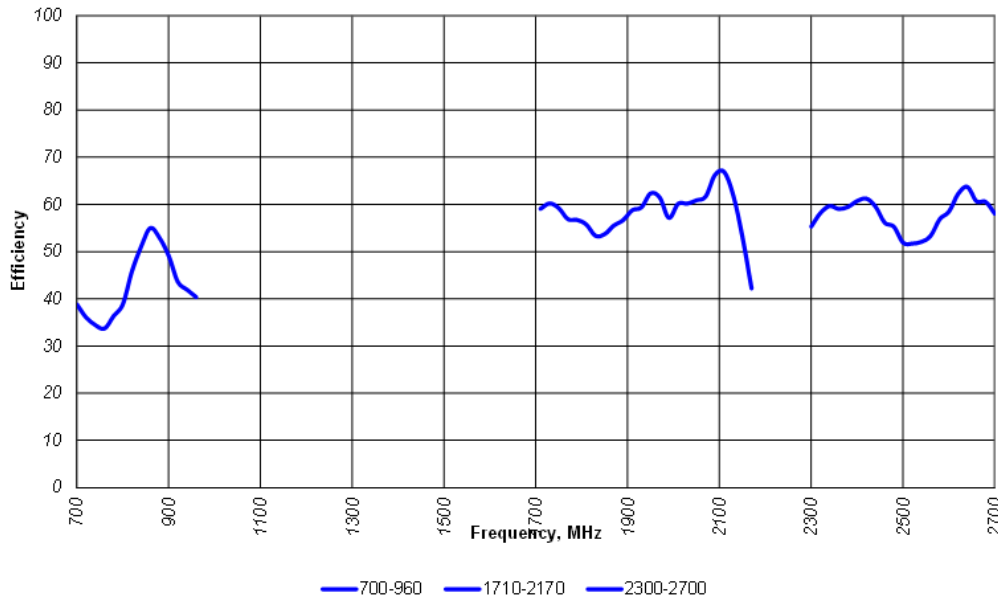
Peak Gain vs Frequency
Free space

Measured at Pulse, USA - June 01, 2016



Efficiency vs Frequency
Free space

Measured at Pulse, USA - June 01, 2016



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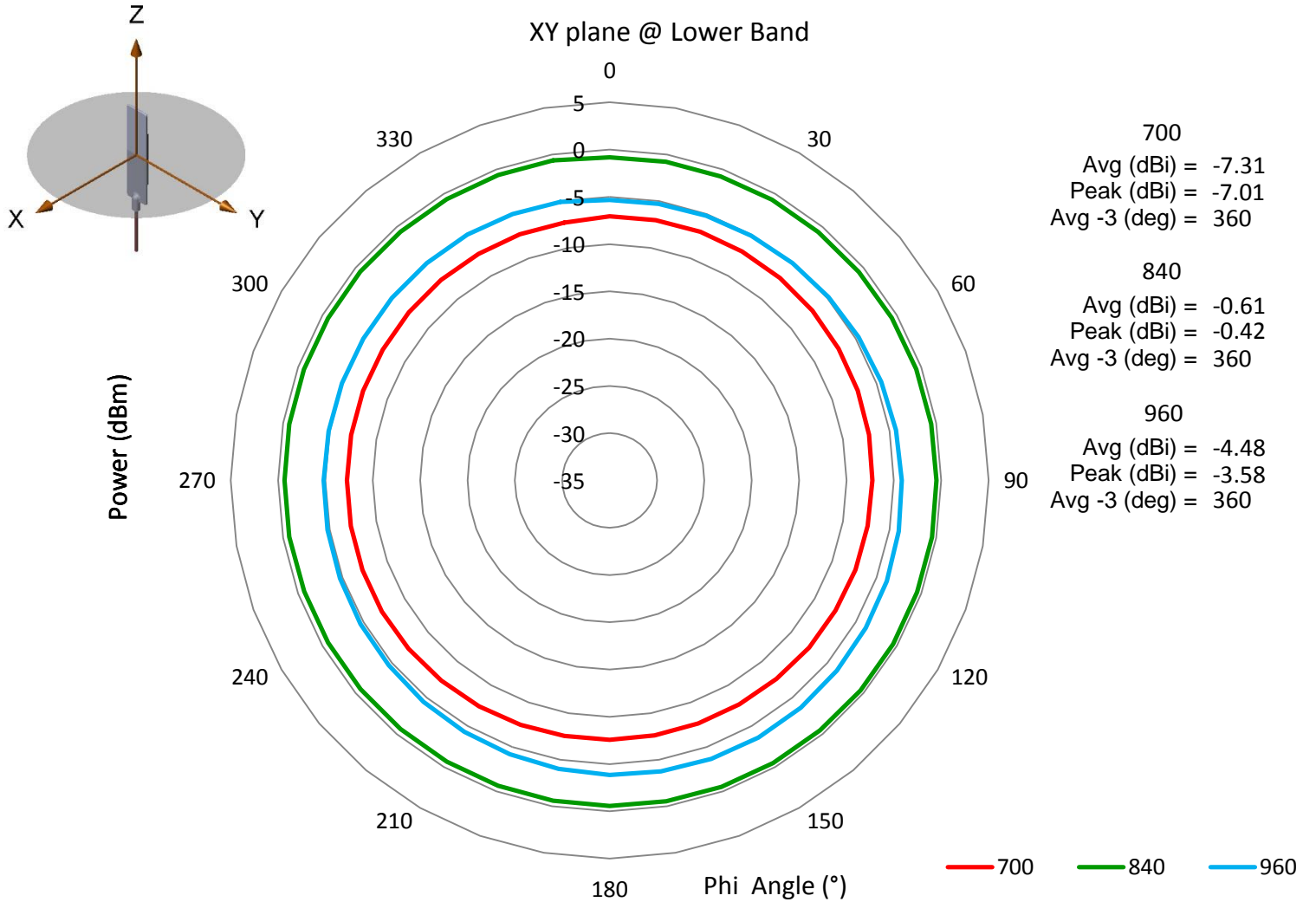
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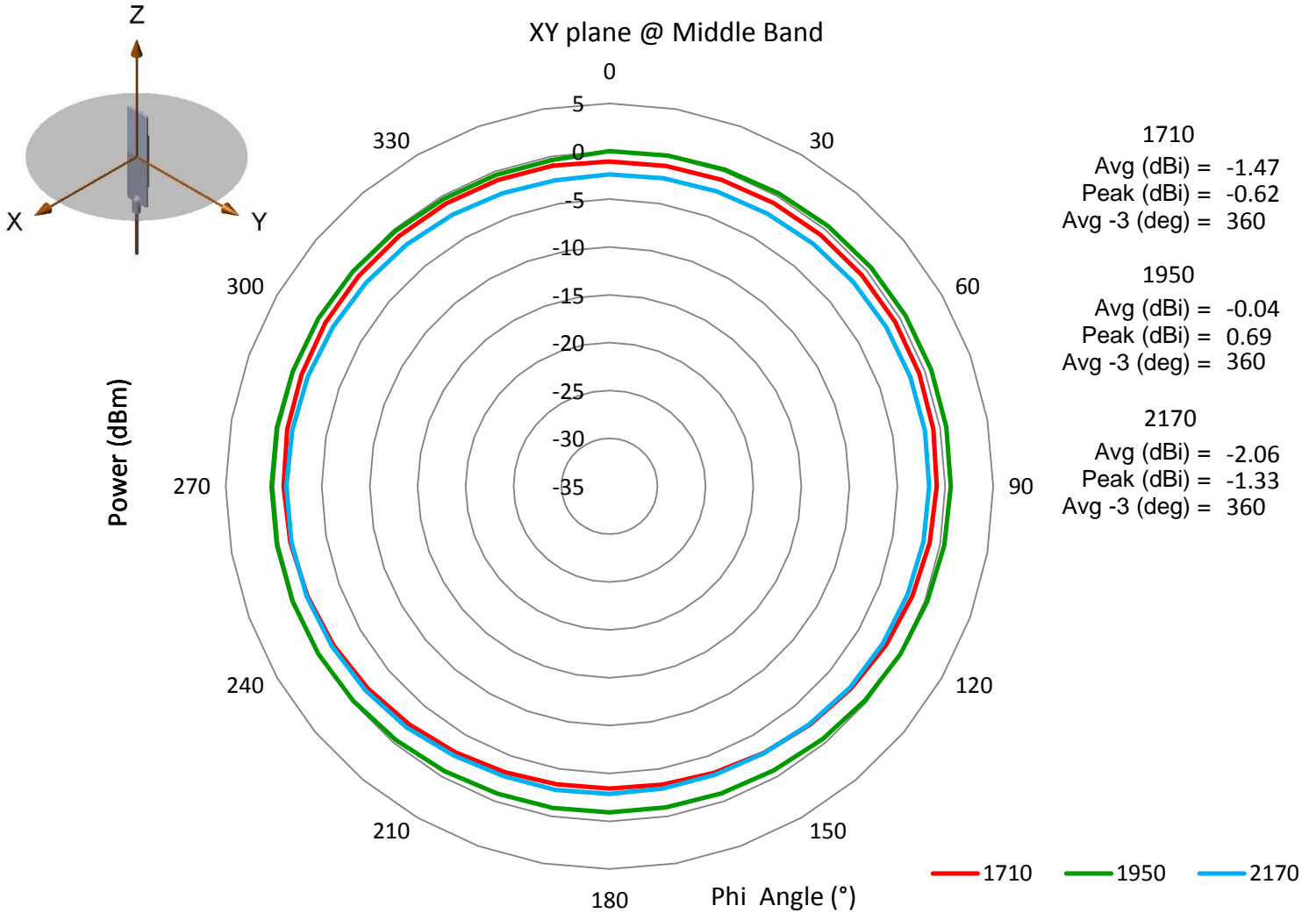
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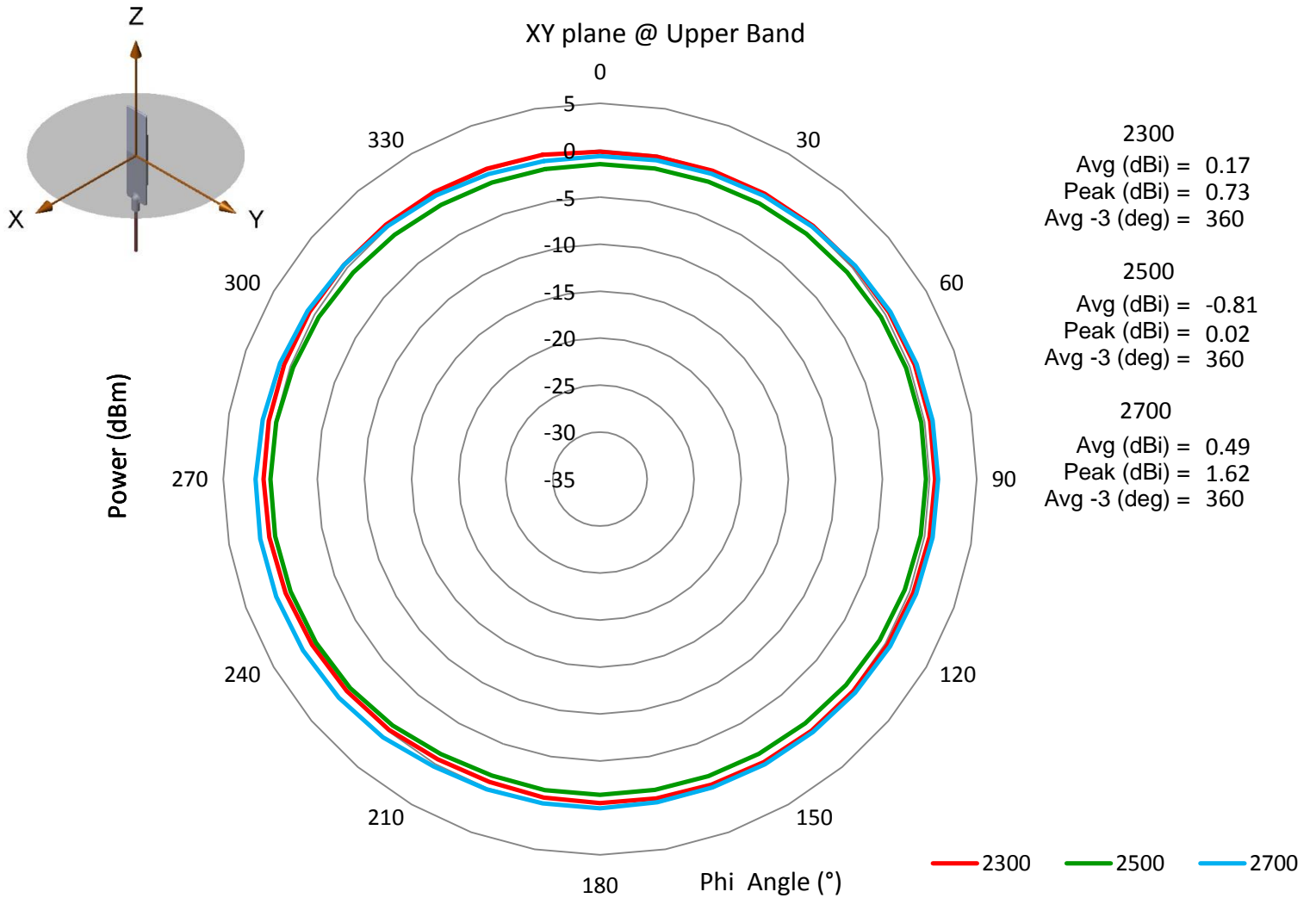
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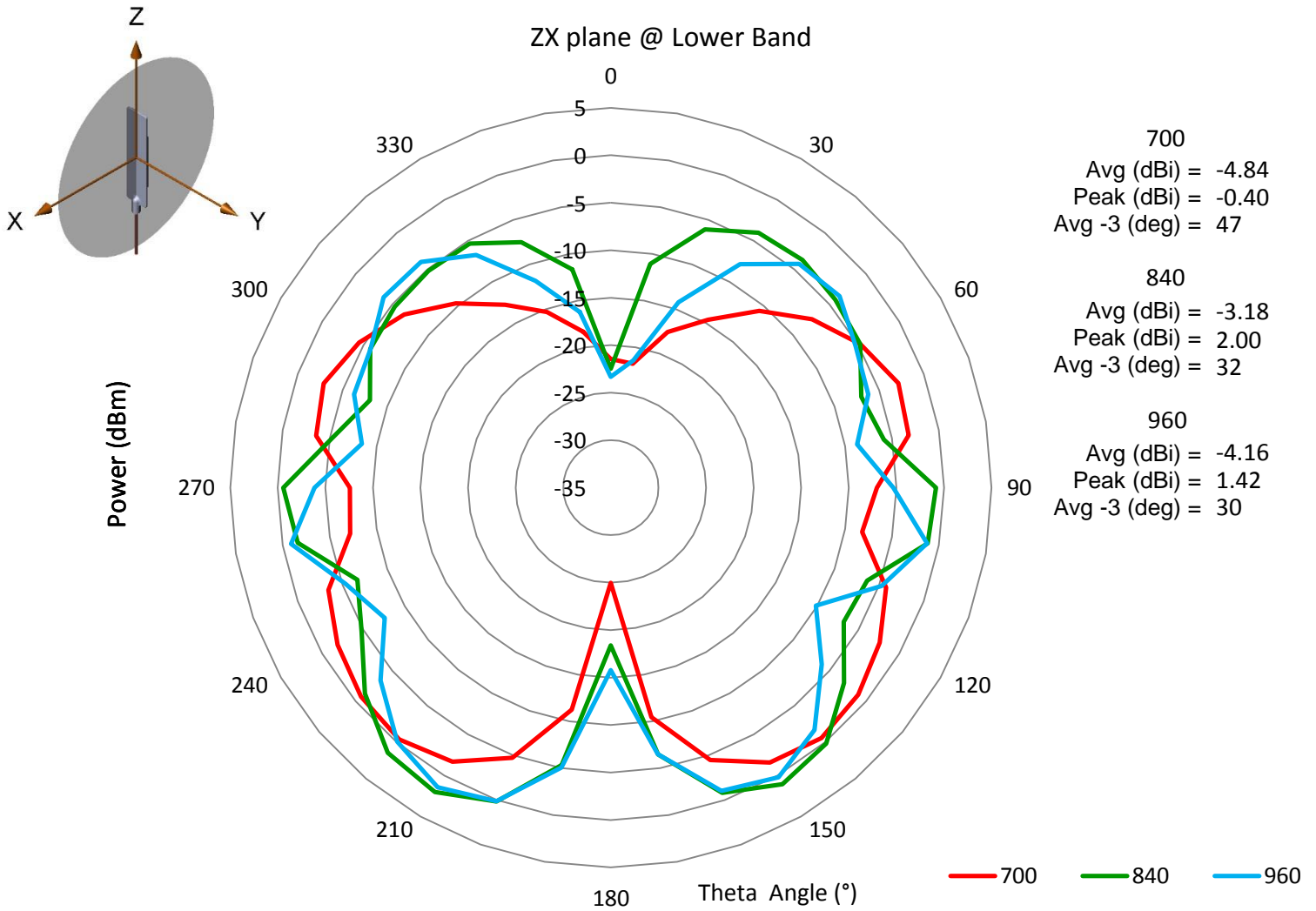
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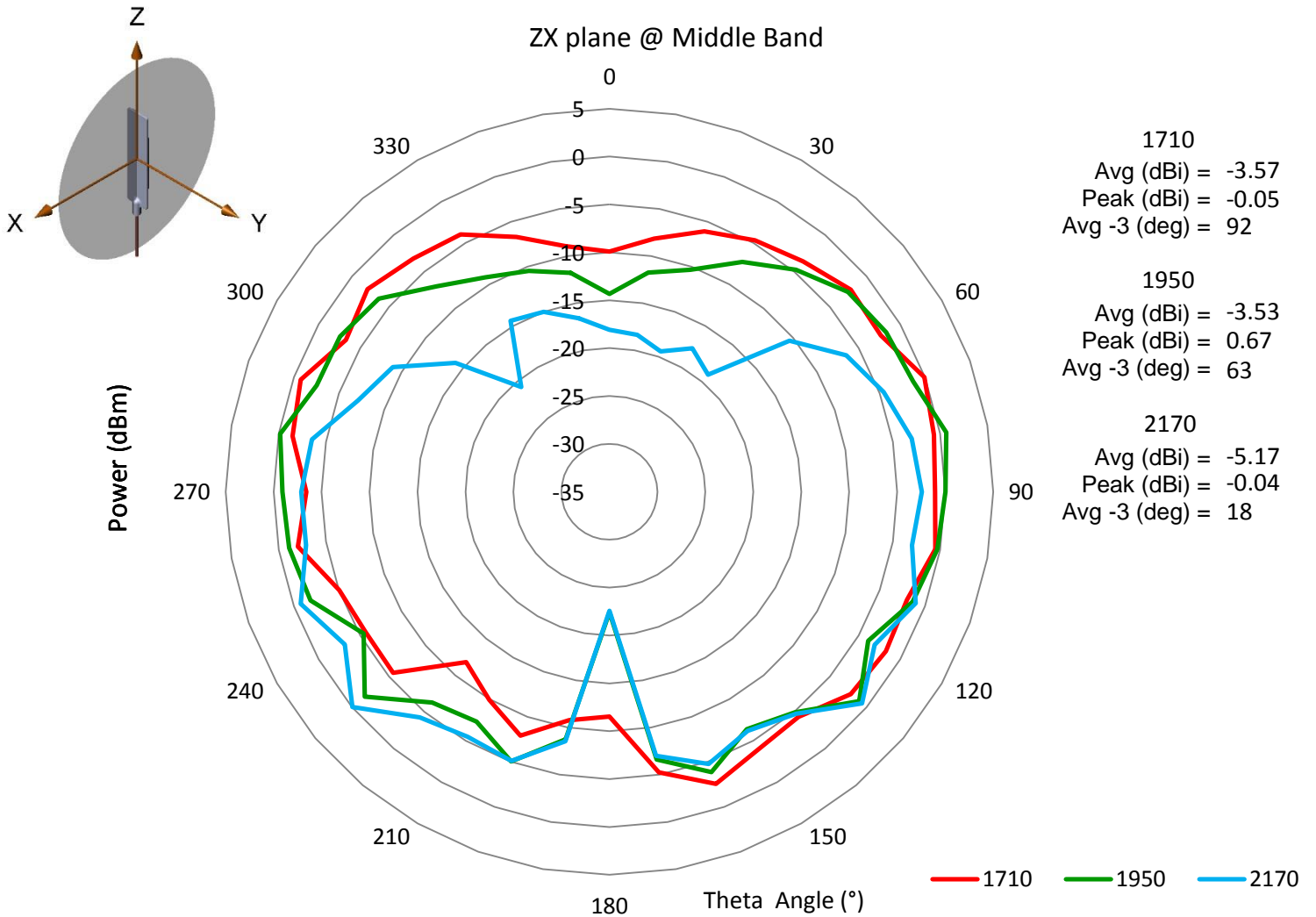
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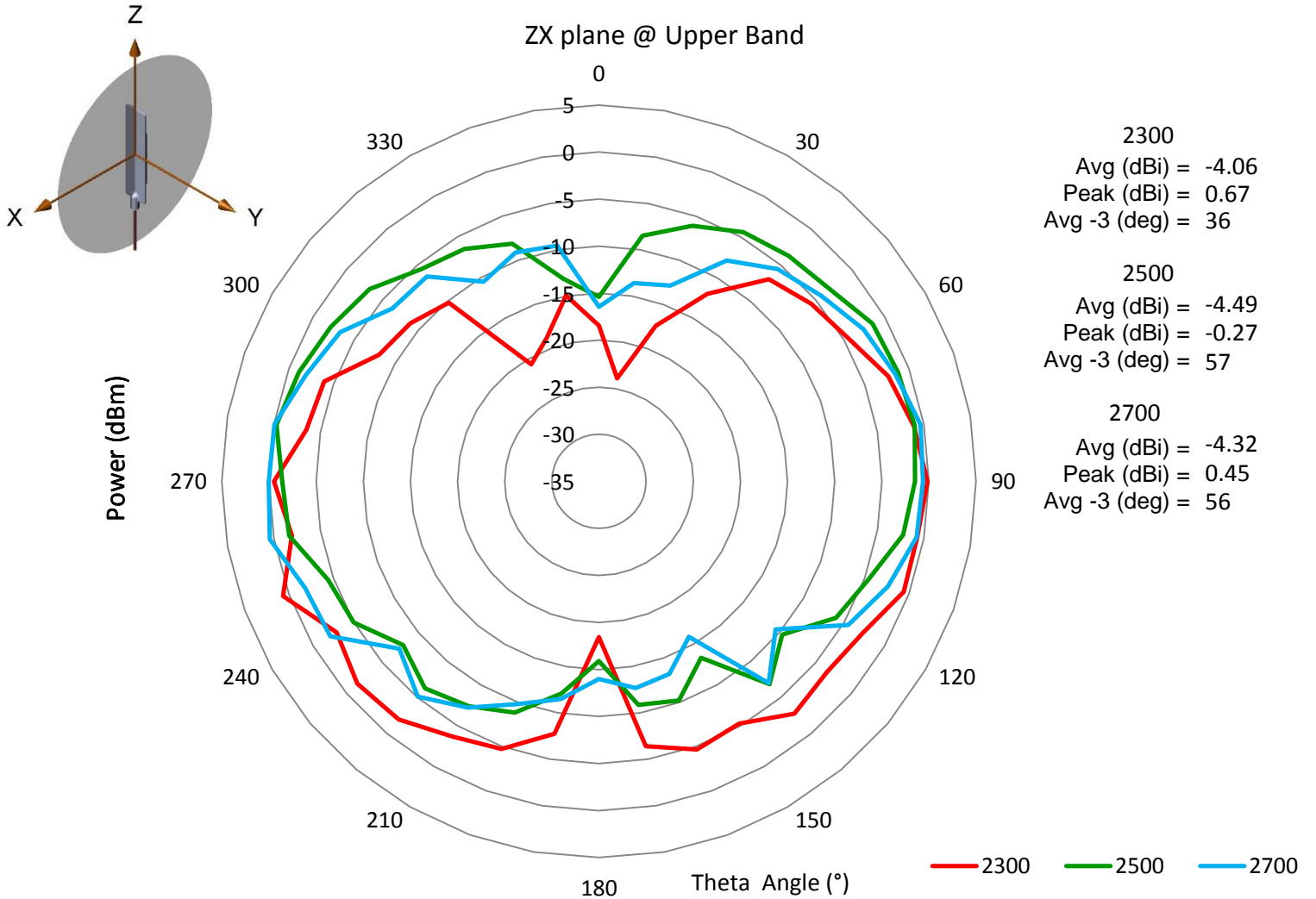
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Packaging

1 antennas packed in one plastic bag

1 label on each plastic bag with part number, date code.

200 plastic bags of antennas (total 200pcs) packed in a cardboard box

1 label on each box with qty, part number, date code.

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