

Description: LTE 698-2700MHz Stealth Blade Antenna

Series: MIRANT

PART NUMBER: W6100



Features:

- End fed stealth blade antenna with coax cable
- Bands 698-960, 1710-2170, 2300-2700MHz
- Size 110 x 26 x 2mm
- Connector Fakra SMBA Code D

Applications:

- Automotive LTE radio systems
- Embedded antenna into the mechanics
- Mirrors, bumpers, inside dash etc.

Issue: 1807

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

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Description: LTE 698-2700MHz Stealth Blade Antenna**Series: MIRANT****PART NUMBER: W6100****ELECTRICAL SPECIFICATIONS**

Frequency	698-960 MHz
	1710-2170 MHz
	2300-2700 MHz
	Nominal Impedance 50 Ω
VSWR 698-960 MHz	3:1
VSWR 1710-2700 MHz	2.5:1
Peak Gain, Avg. 698-960 MHz	1.8 dBi
Peak Gain, Avg. 1710-2170 MHz	4 dBi
Peak Gain, Avg. 2300-2700 MHz	4.5 dBi
Efficiency, Avg. 698-960 MHz	50 %
Efficiency, Avg. 1710-2170 MHz	52 %
Efficiency, Avg. 2300-2700 MHz	57 %

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MECHANICAL SPECIFICATIONS

Radiator material	PCB
Radiator Size X,Y	110x 26 mm
Radiator Thickness	2 mm
Color	Black
Fixing system	Adhesive tape, 3MVHB 4949
Cable type	RG 316
Cable length	550mm
Connector	Fakra Code D

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40~ +85° C
Mechanical Vibration	Random vibration input of 60 min/axis, all three perpendicular axis. Transportation frequency 5-500 Hz using Fig 514.6C-I and Table 514.6-II of MIL STD 810G section 514.6,
Shock Impact	Per EIA-TIA-329-B1 spec
Storage Temperature	-40° to +85° C
Humidity	+30°C @ 93% RH

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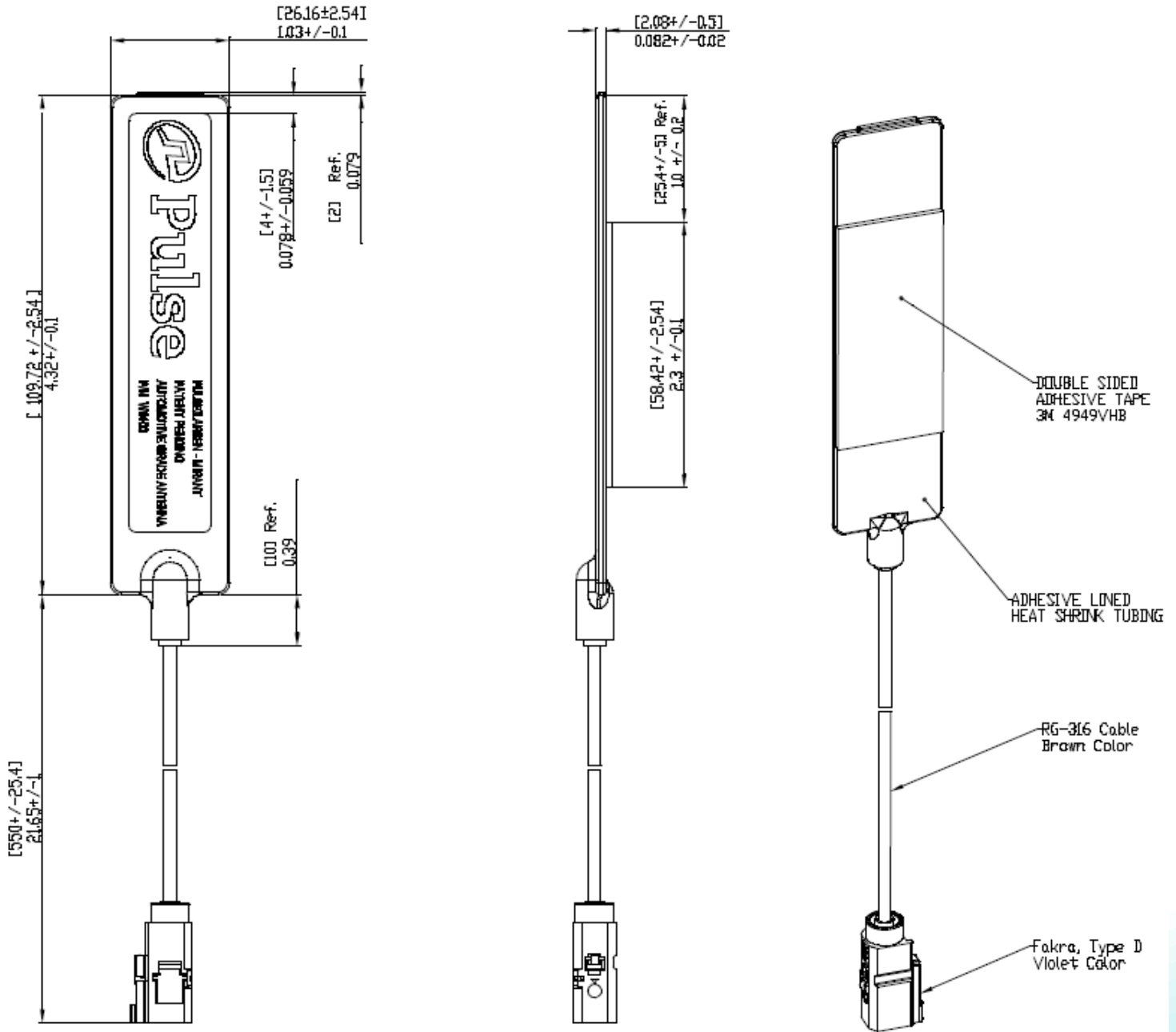
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MECHANICAL Drawing



All dimensions are in mm / inches

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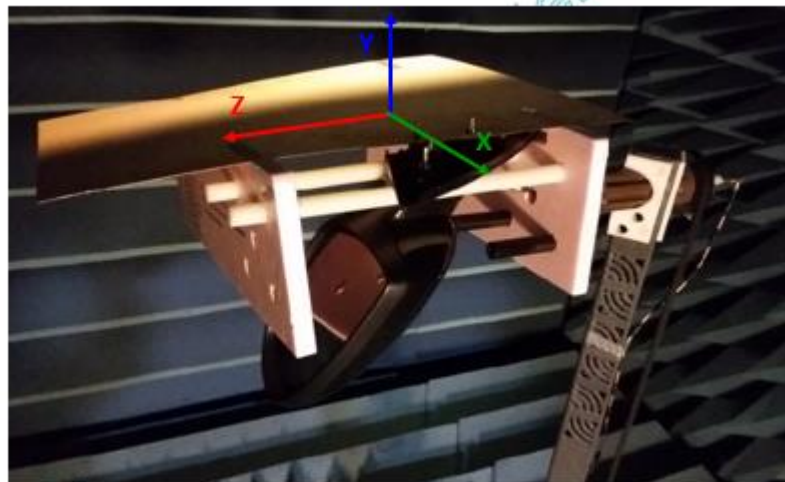
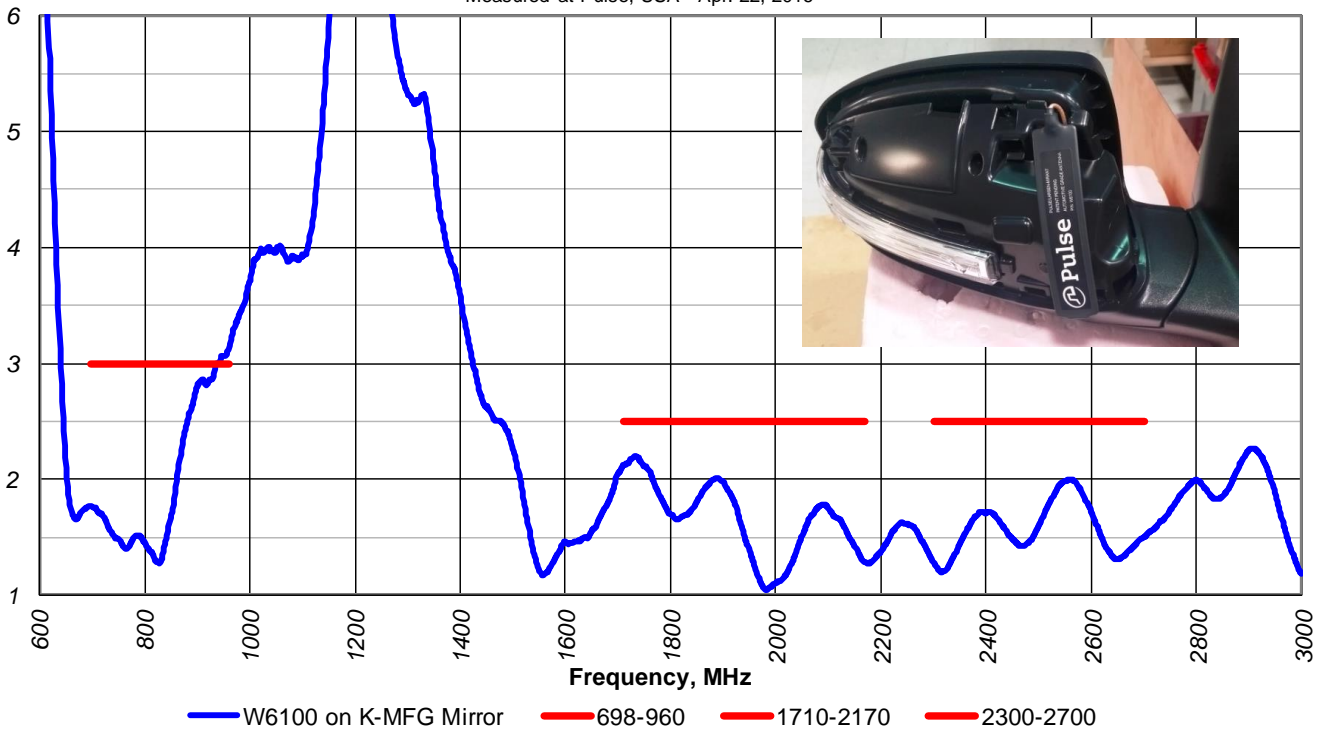
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CHARTS

VSWR vs Frequency
W6100 Tested on K-MFG Mirror
Measured at Pulse, USA - Apr. 22, 2016



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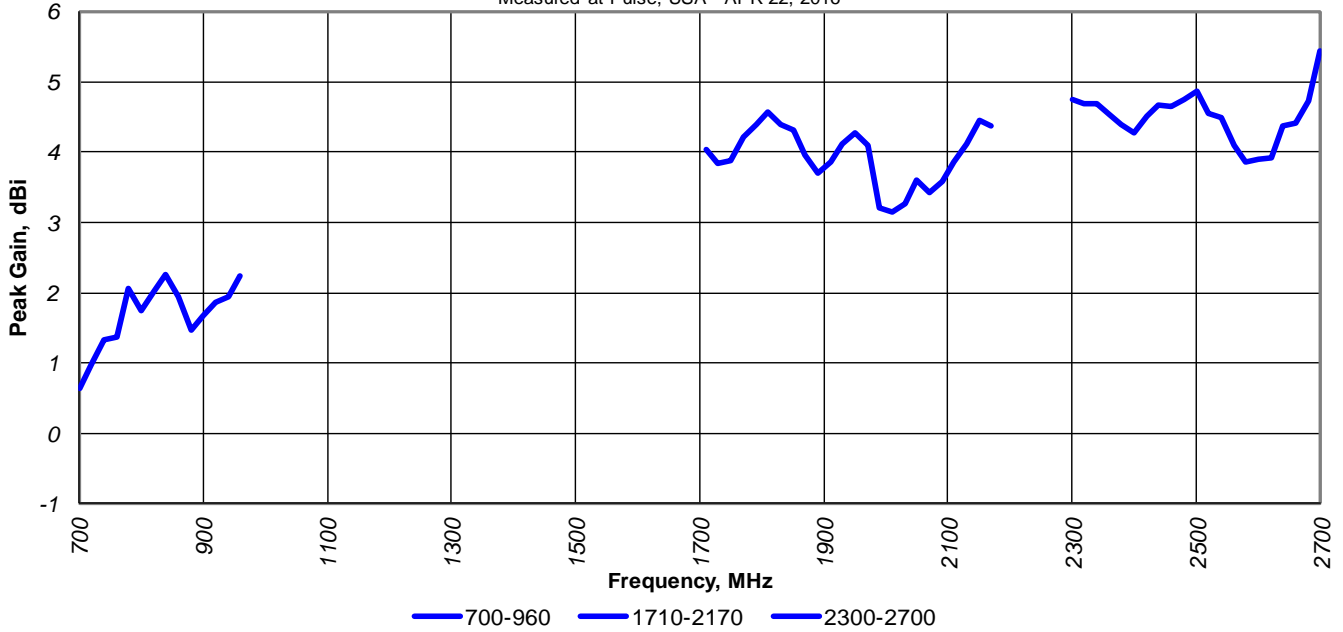
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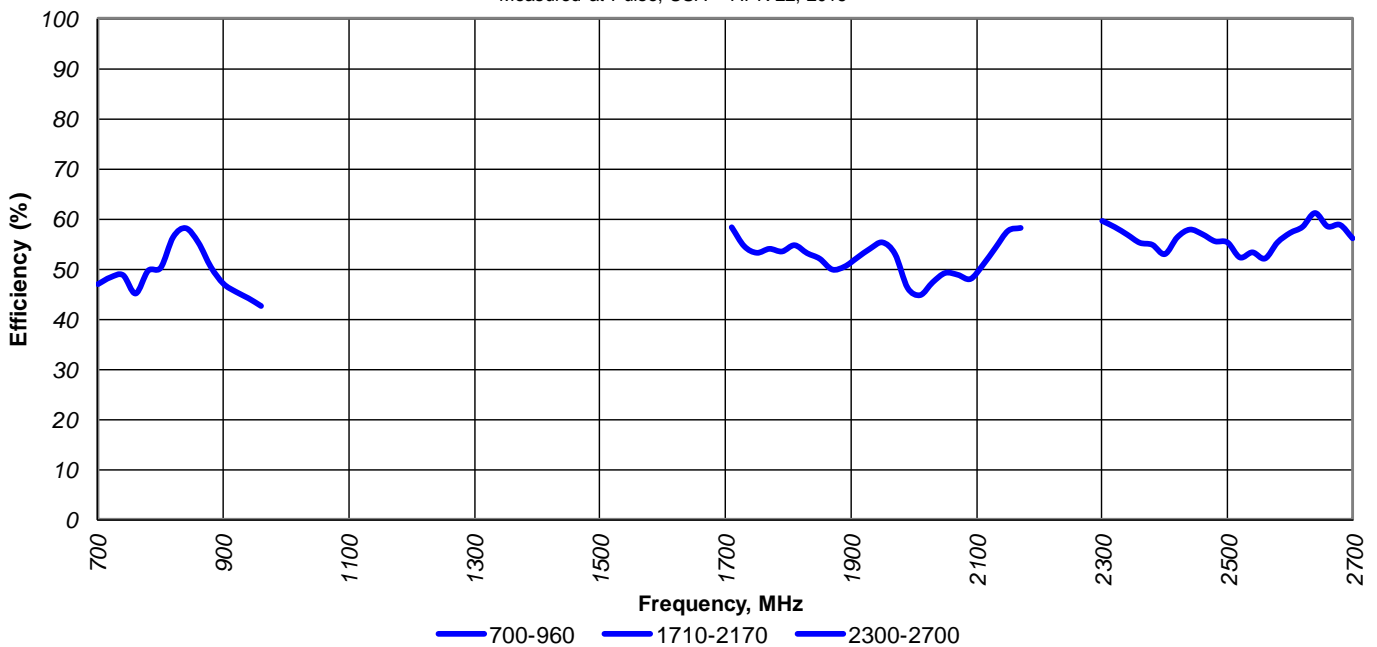
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CHARTS

Peak Gain vs Frequency
W6100 Tested on K-MFG Mirror
Measured at Pulse, USA - APR 22, 2016



Efficiency vs Frequency
W6100 Tested on K-MFG Mirror
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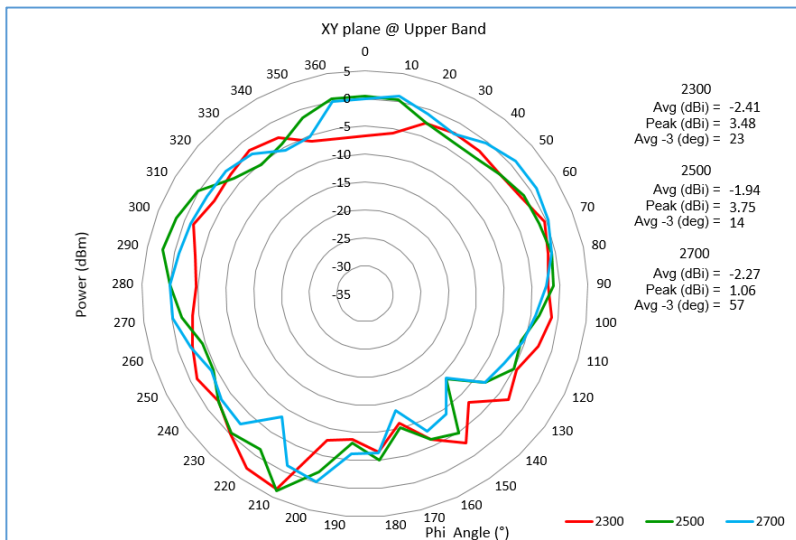
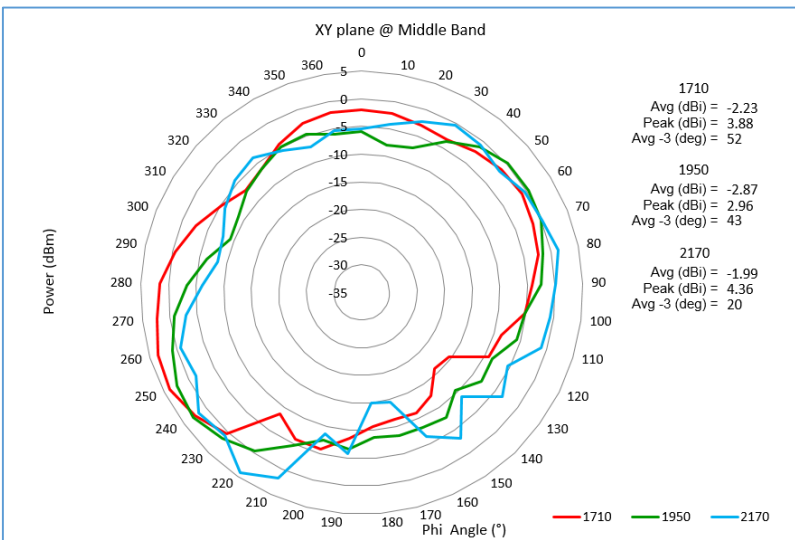
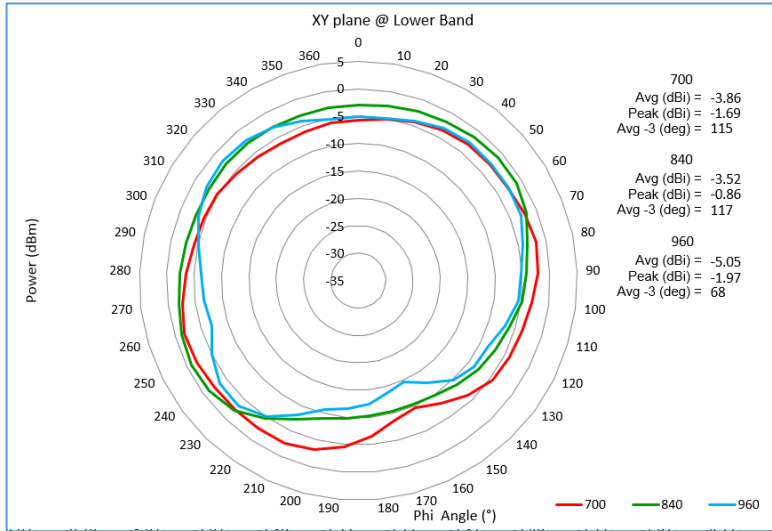


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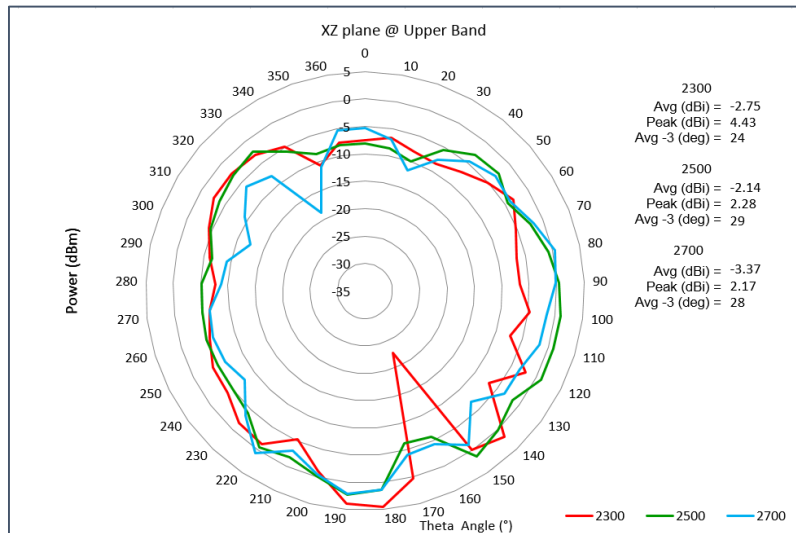
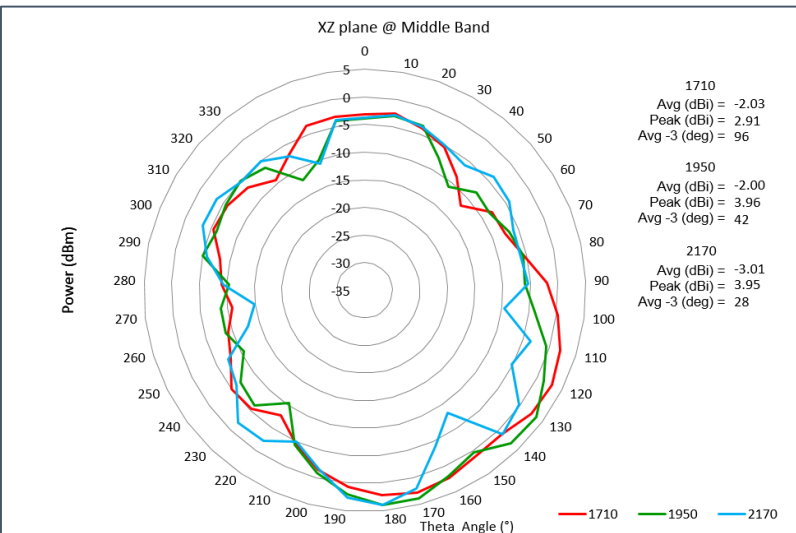
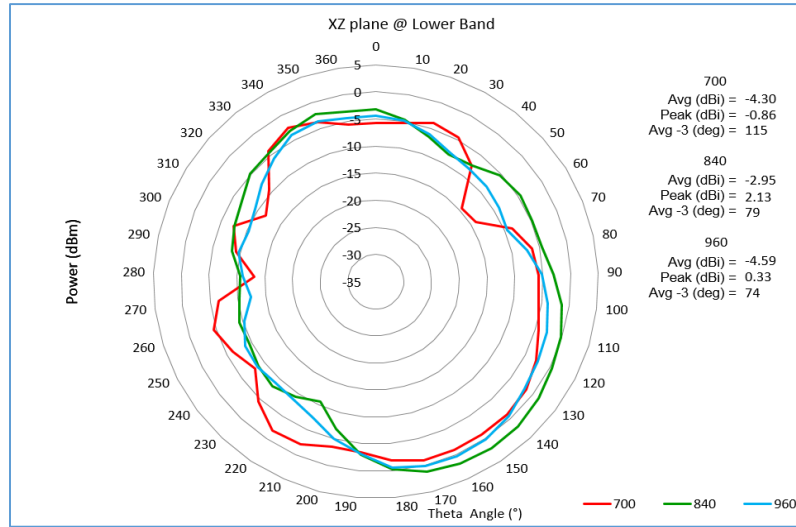
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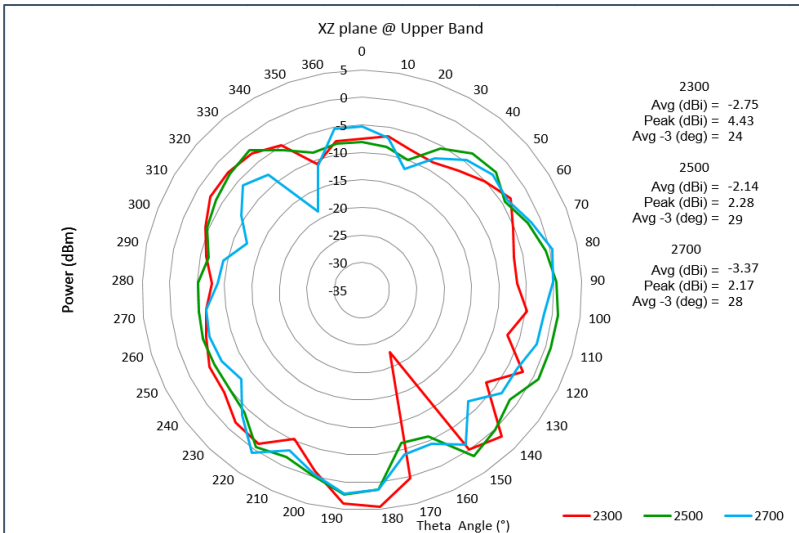
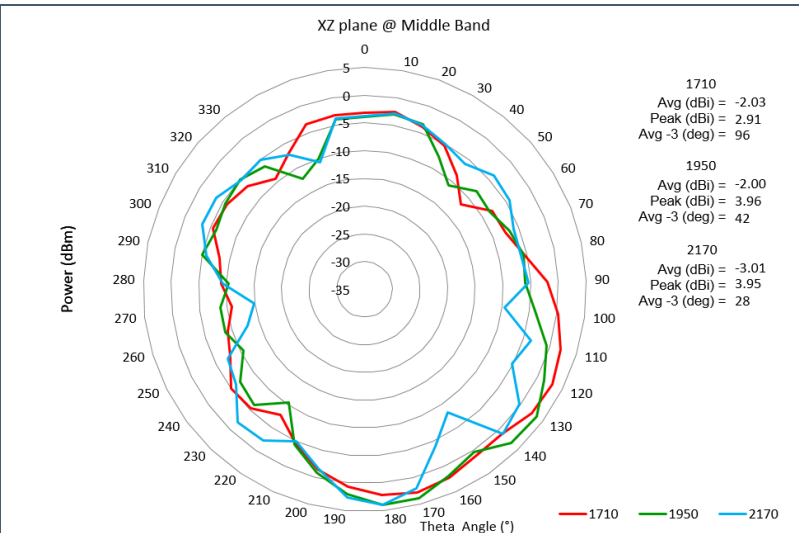
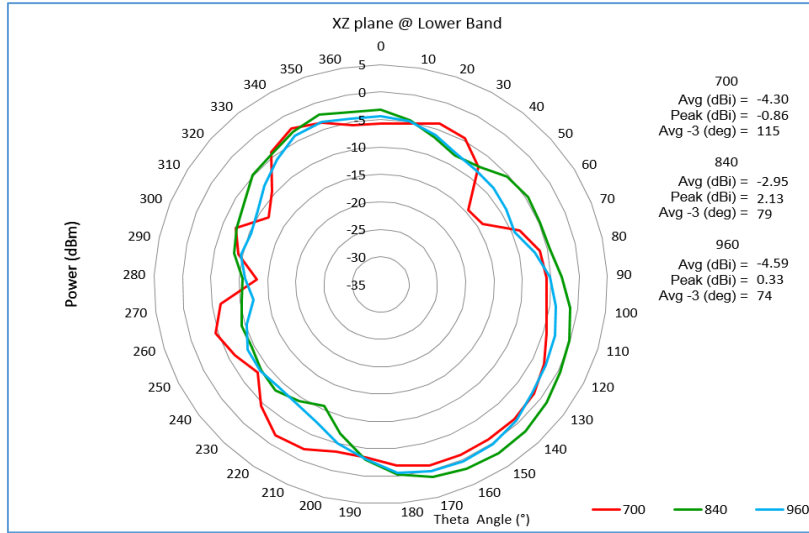
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