



Meraki

MG41 Internal Antenna Datasheet



NOTE:

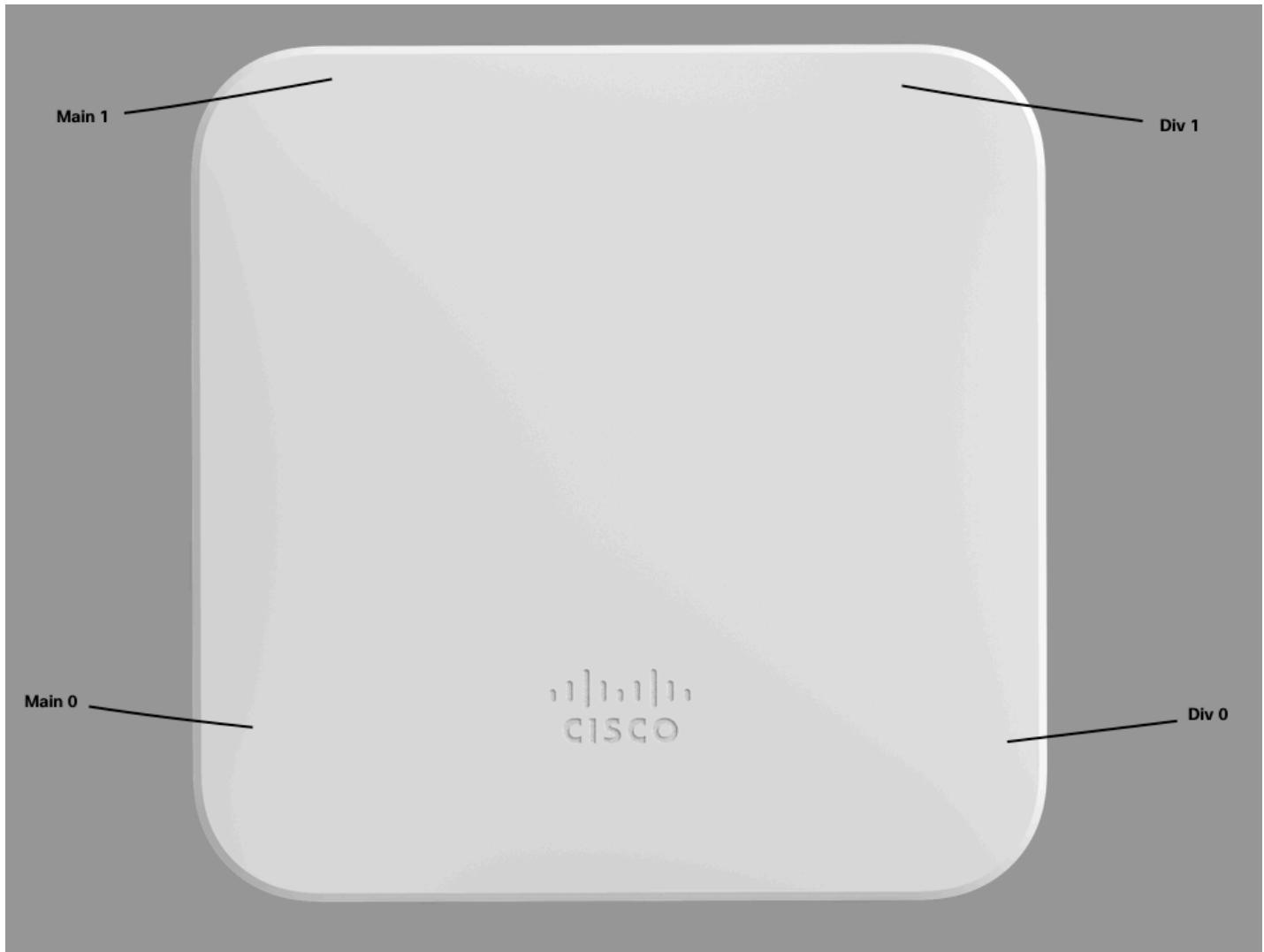
Main 0 bands - B1, B2(B25), B3, B4(B66), B5(B26,B18,B19), B8, B12(B17), B13, B14, B20, B28, B29, B39, B71, B41 for 4x4 MIMO

Main 1 bands - B7, B30, B32, B38, B40, B41, B42, B43, B46, B48, B2(B25) for 4x4 MIMO, B4(B66) for 4x4 MIMO

Div 0 bands - B1, B2(B25), B3, B4(B66), B5(B26,B18,B19), B8, B12(B17), B13, B14, B20, B28, B29, B39, B71, B41 for 4x4 MIMO

Div 1 bands - B7, B30, B32, B38, B40, B41, B42, B43, B46, B48, B2(B25) for 4x4 MIMO, B4(B66) for 4x4 MIMO

The internal antenna on the MG41 are enclosed inside for a sleek look while maintaining excellent performance. When in use the internal antenna has a bias towards the front face. The dipole shape of coverage the antennas generally excel at allowing users to place the MG in areas where a directional patch antenna cannot be mounted. A benefit of the internal antenna is the smaller footprint where it will be mounted. Internally, the MG41 has 2 main and 2 diversity antennas.



Specifications

Category	Specifications
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Antenna Type

Planar Inverted F Antenna (PIFA)

Electrical

Main 0 Antenna

Frequency Range

- 789 (617 - 960) MHz
- 1955 (1710 - 2200) MHz
- 2500 (2300 - 2700) MHz

Peak Gain (per range)

- 789 @ 2.7dBi
- 1955 @ 2.92dBi
- 2495 @ 2.61dBi

Polarization

Linear, vertical

Main 1 Antenna

Frequency Range

- 1826 (1452 - 2200) MHz
- 2500 (2300 - 2700) MHz
- 4663 (3400 - 5925) MHz

Peak Gain (per range)

- 789 @ 2.96dBi
- 1955 @ 2.67dBi
- 2495 @ 2.92dBi

Polarization

Linear, vertical

Div 0 Antenna

Frequency Range

- 789 (617 - 960) MHz
- 1955 (1710 - 2200) MHz
- 2500 (2300 - 2700) MHz

Peak Gain (per range)

- 829 @ 1.3dBi
- 1940 @ 2.86dBi
- 2495 @ 2.85dBi

Polarization

Linear, vertical

Div 1 Antenna

Frequency Range

- 1826 (1452 - 2200) MHz
- 2500 (2300 - 2700) MHz
- 4663 (3400 - 5925) MHz

Peak Gain (per range)

- 789 @ 2.99dBi
- 1955 @ 2.74dBi
- 2495 @ 4.59dBi

Polarization

Linear, vertical

MG41 Dimensions

168 x 168 x 35mm

Physical and Environmental

MG41 Operating Temperature

-30°C to 50°C (-22°F to 122°F)

Material of Radiator

Sheet metal

Regulatory

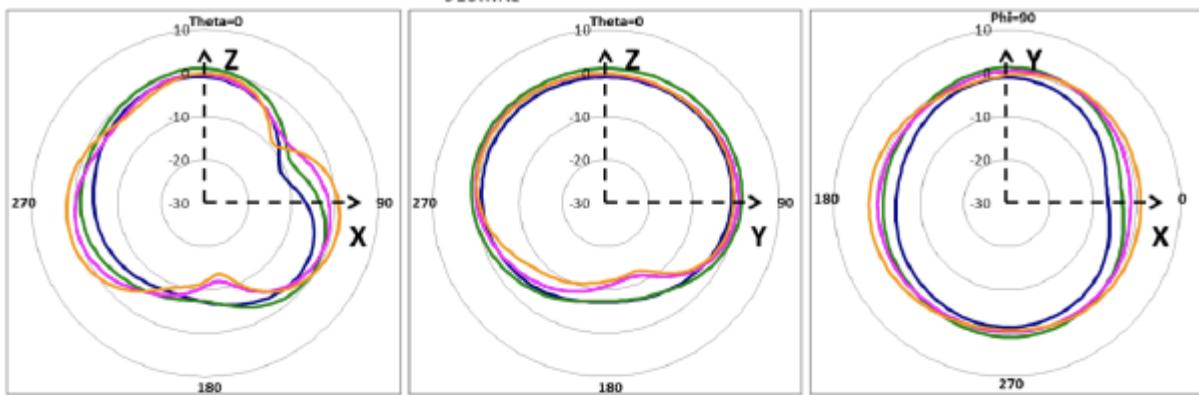
Certified for use in the MG41

Radiation Patterns

Main 0 Antenna

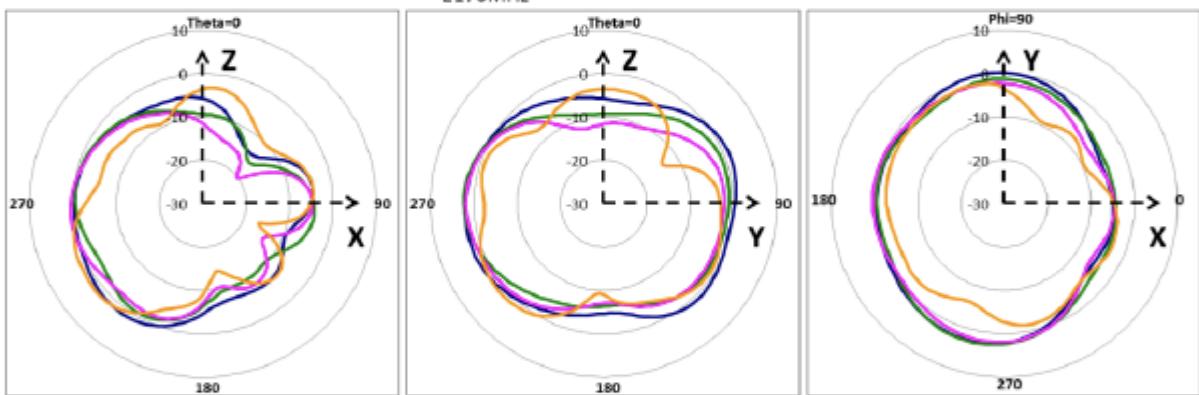
**600 - 900 MHz
Radiation Pattern**

— 617MHz
— 704MHz
— 824MHz
— 915MHz



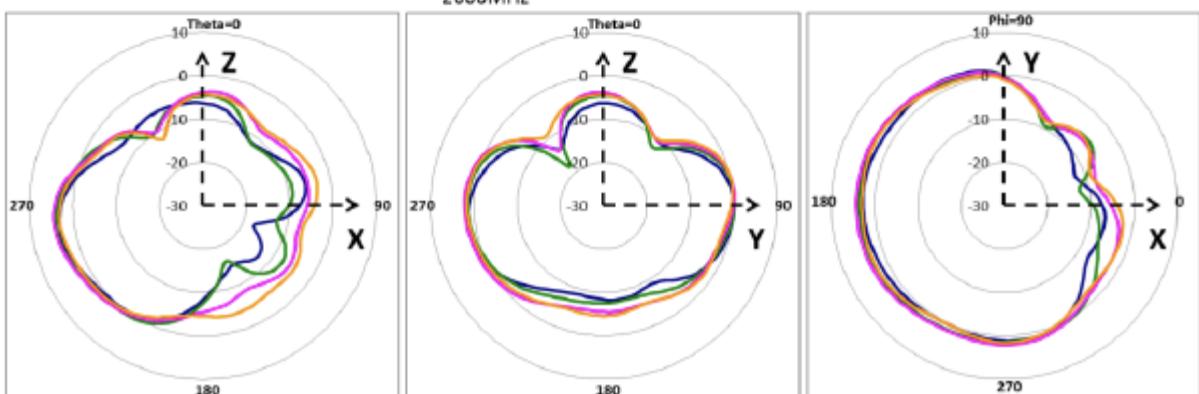
**1700 - 2200 MHz
Radiation Pattern**

— 1710MHz
— 1850MHz
— 1950MHz
— 2170MHz



**2300 - 2700 MHz
Radiation Pattern**

— 2300MHz
— 2400MHz
— 2500MHz
— 2600MHz

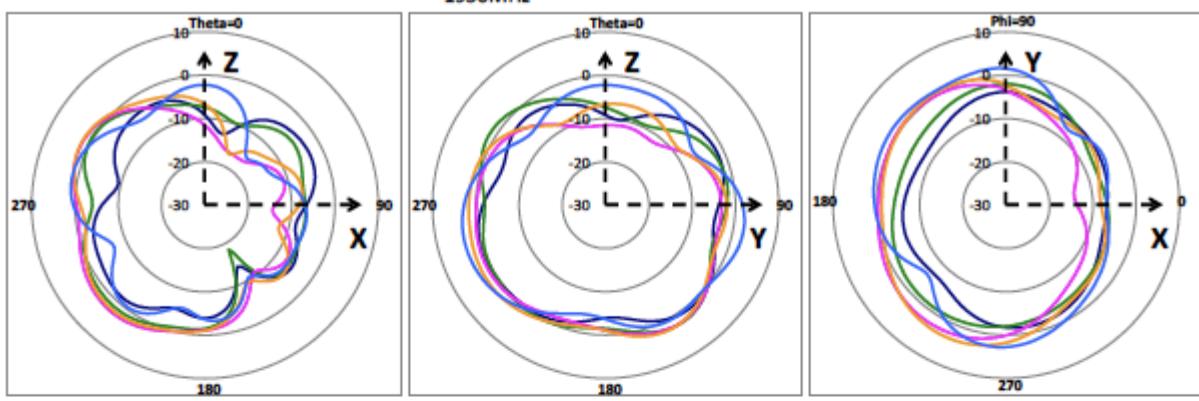




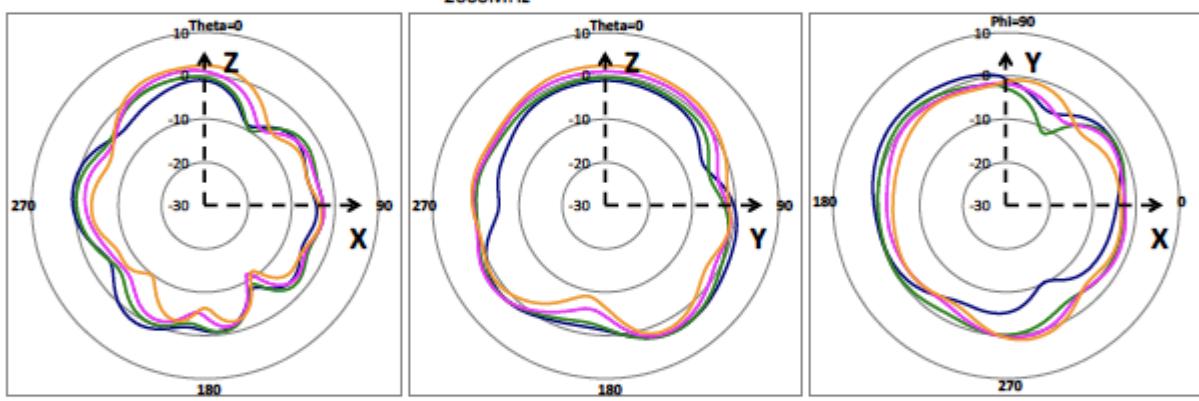
effektiv
verstärkt

Main 1 Antenna

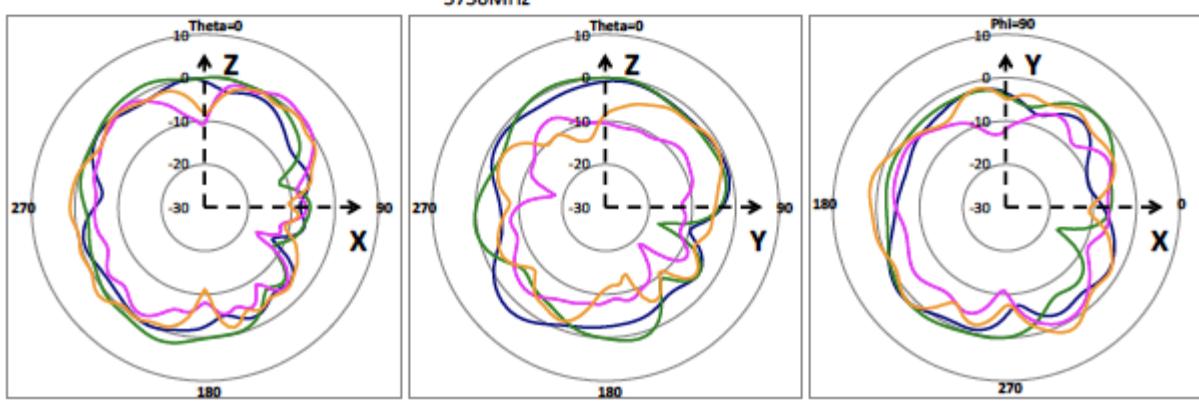
**1450 - 2200MHz
Radiation Pattern**



**2300 - 2700 MHz
Radiation Pattern**



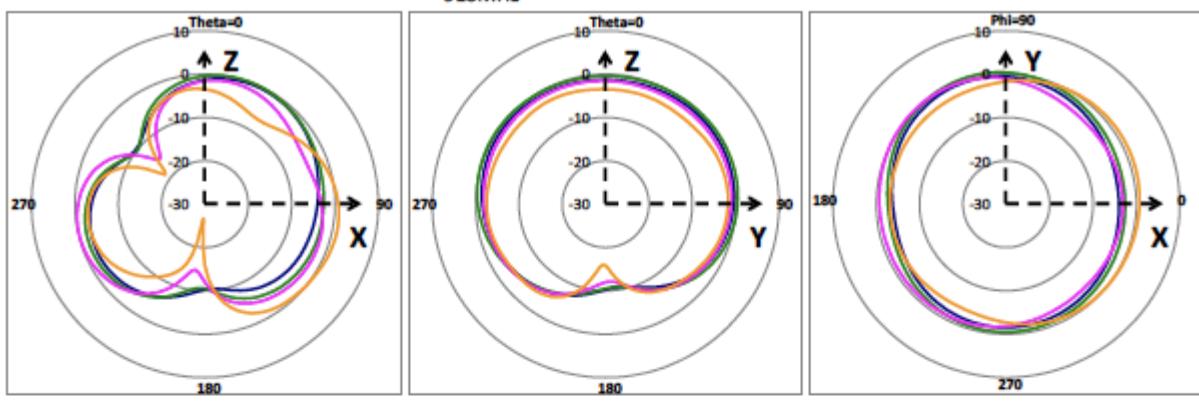
**3400 - 5950 MHz
Radiation Pattern**



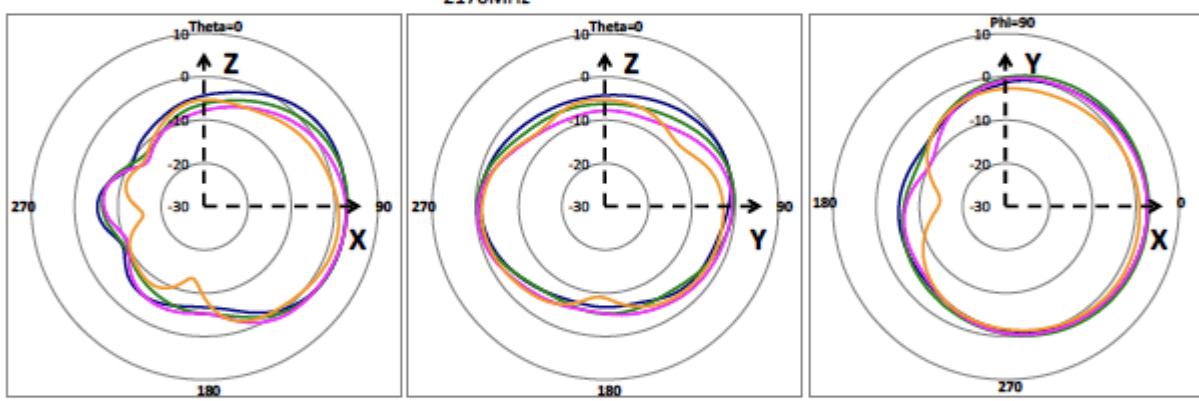


Div 0 Antenna

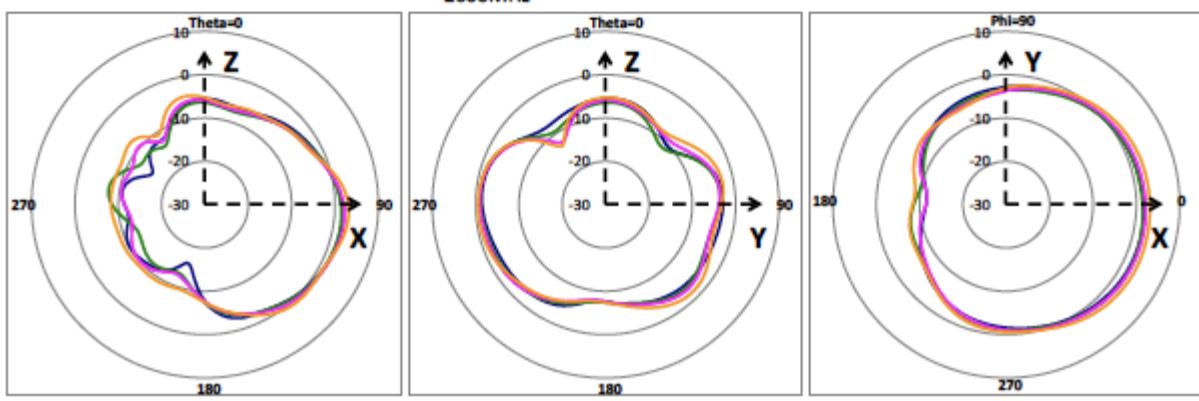
**600 - 900 MHz
Radiation Pattern**



**1700 - 2200 MHz
Radiation Pattern**



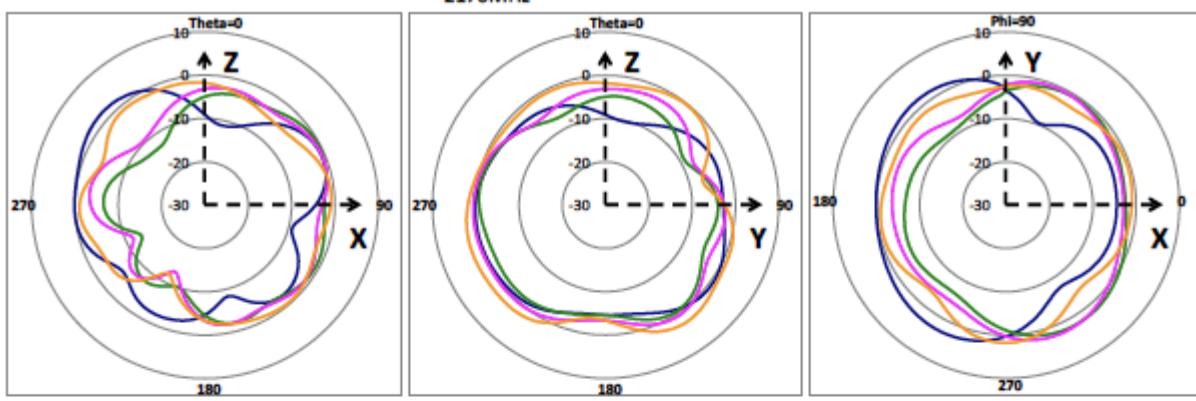
**2300 - 2700 MHz
Radiation Pattern**



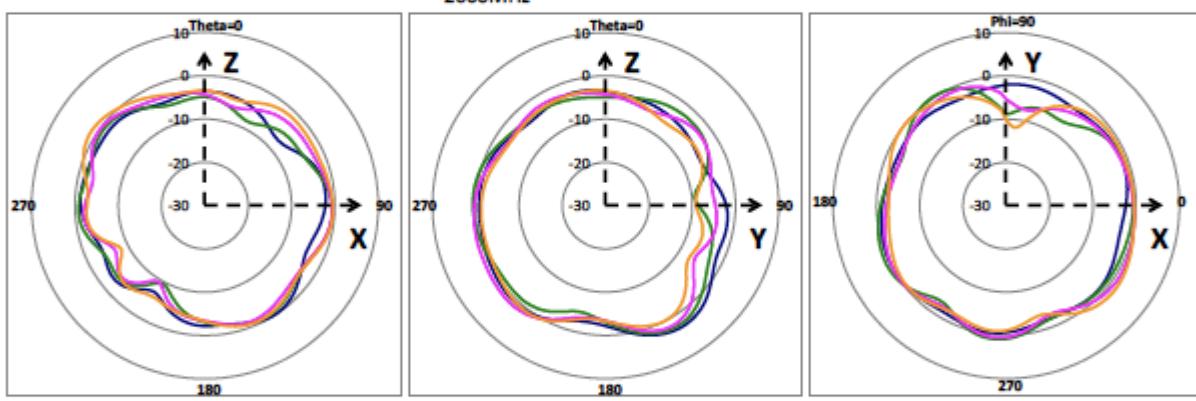


Div 1 Antenna

**1450 - 2200 MHz
Radiation Pattern**



**2300 - 2700 MHz
Radiation Pattern**



**3400 - 5950 MHz
Radiation Pattern**

