ethertronics® INNOVATE

DATA SHEET: In-Building Antenna 698-2700MHz

Part No: D121014H11

EtherDAS™
Omni-Directional In-Building Antenna 698-2700MHz

Electrical Specifications

Typical Characteristics

VSWR 698-930MHz 1710-2500MHz 2501-2700MHz	 ≤ 1.7:1 ≤ 1.8:1 ≤ 2.0:1
Typical Peak Gain 698-960MHz 1710-2700MHz	 1dBi 6dBi
Polarization	Vertical
Low band Beamwidth (typical) 698-960MHz	Horizontal: 360° Vertical : 80°
High band Beamwidth (typical) 1710-2700MHz	Horizontal: 360° Vertical : 65°
Nominal Impedance	50Ω
Input Power, Max.	50 Watts
IM3 (2 tones of 43dBm) IM3 (2 tones of 43dBm)	≤ -153dBc in all bands ≤ -157dBc in all bands (4.1– 9.5 Mini DIN-type)

Mechanical Specifications

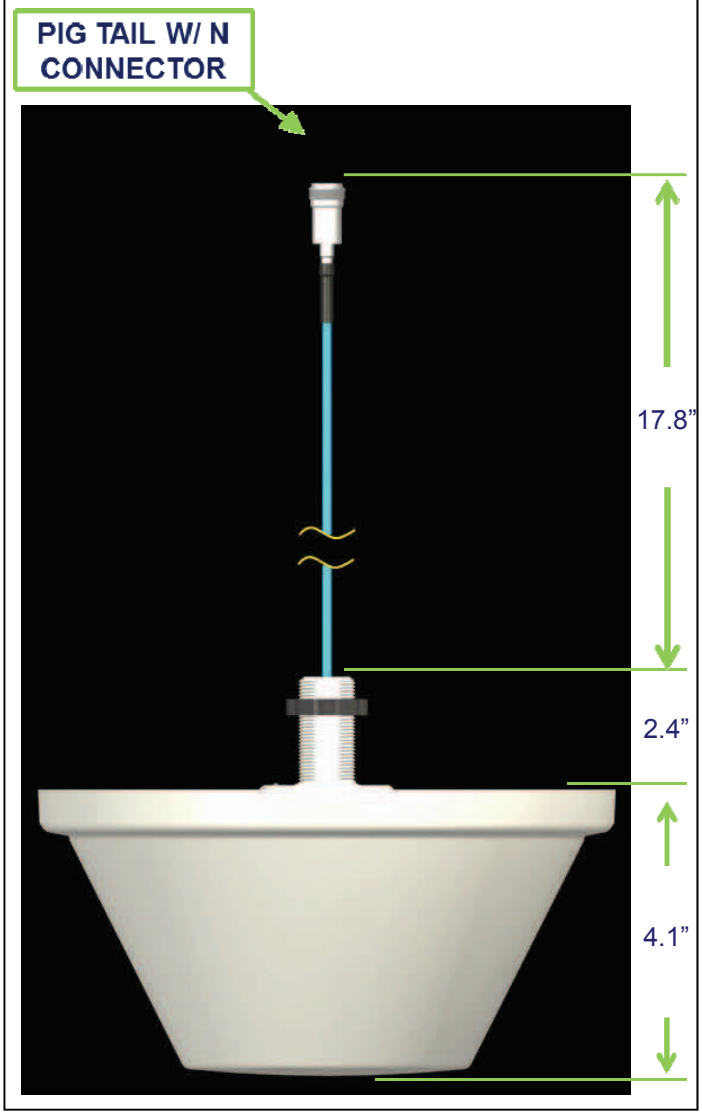
Typical Characteristics

Diameter	202.5mm (7.98”)
Height	104.5mm (4.12”)
Connector	N-type Female
Mounting	Thru-hole and locking holder ceiling mount Cable length (45.2mm) 17.8”
Net Weight	0.47Kg
Radome Color	White
Radome Material	ABS, UV resistant

RoHS Compliant

Ethertronics’ antennas comply with the European RoHS

More information is available on our website at www.ethertronics.com



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Model#	Description
D101005H11	7/16 DIN-type wideband ultra-low PIM <-157 dBc locking holder mount Omni
D104013H11	N-type wideband low PIM <-153 dBc plastic stem and locking holder mount Omni
D121014H11	Pigtail N-type wideband low PIM <-153 dBc plastic stem and locking holder mount Omni
D105024H11	4.1—9.5 Mini DIN-type wideband ultra-low PIM <-157 dBc plastic stem and locking holder mount Omni
D123023H11	Pigtail 4.1—9.5 Mini DIN-type wideband low PIM <-153 dBc plastic stem and locking holder mount Omni

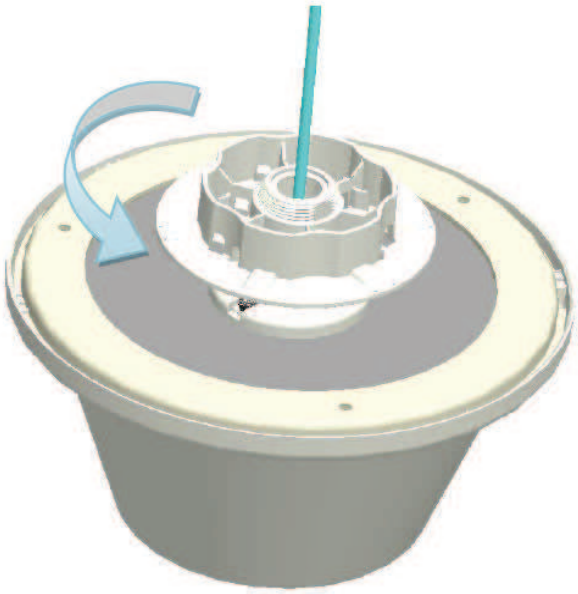
ETHERDAS INDOOR ANTENNA

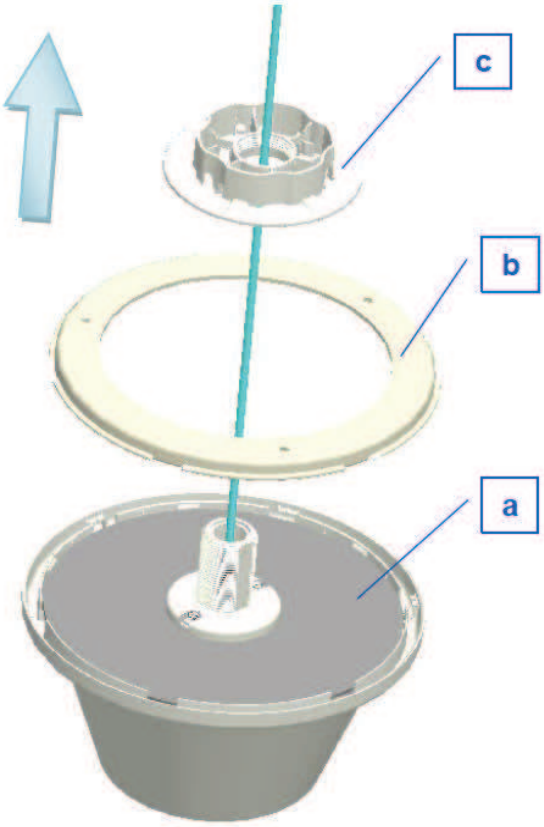
MATERIALS:

- (a) DAS Indoor Antenna.
- (b) Mounting Support.
- (c) Custom Nut.

MOUNTING INSTRUCTIONS:

1. Cut hole in ceiling tile, recommended diameter is 2 ⅜".
2. Remove Custom Nut from the threaded stem, and Mounting Support from Antenna.

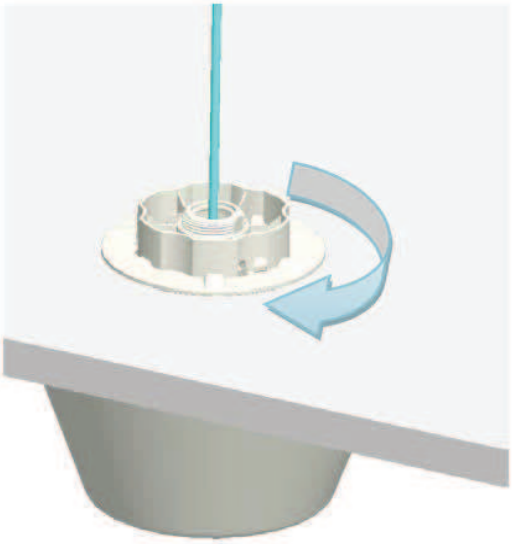




ETHERDAS INDOOR ANTENNA

3. Pass cable and thread stem through ceiling tile hole.

4. Screw the nut onto the threaded stem until tight.



5. Remove the cap on the N-Type connector and connect cables.

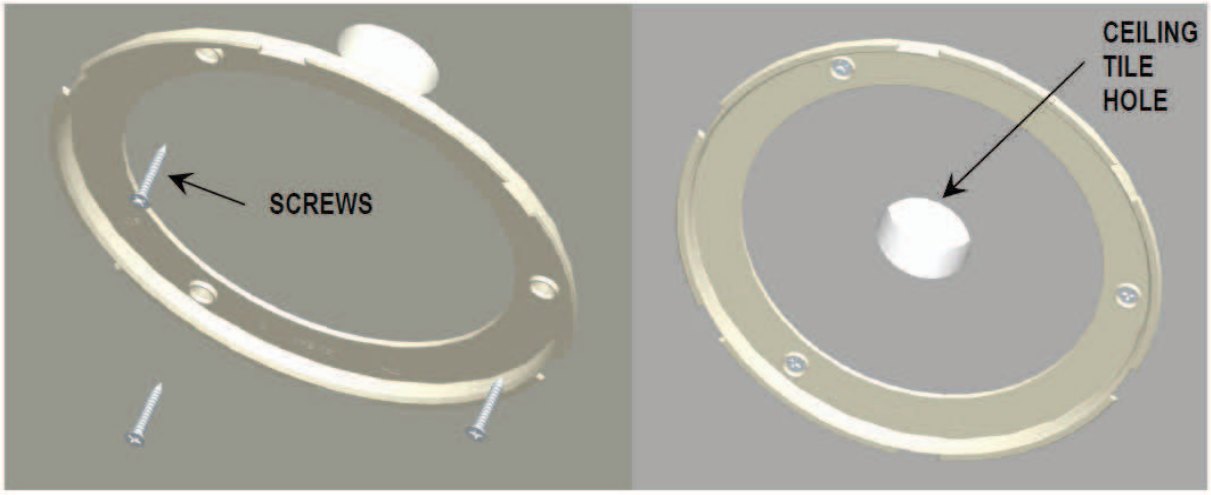
DAS INDOOR ANTENNA

MATERIALS:

- DAS Indoor Antenna, 1 piece.
- Mounting Support, 1 piece.
- Flat Head Phillips Screws, 3 pieces (not included).

MOUNTING INSTRUCTIONS:

1. Drill hole in ceiling tile, recommended diameter is 1 ¼ inch.
2. Attach the mounting support to ceiling using 3 screws (not included).



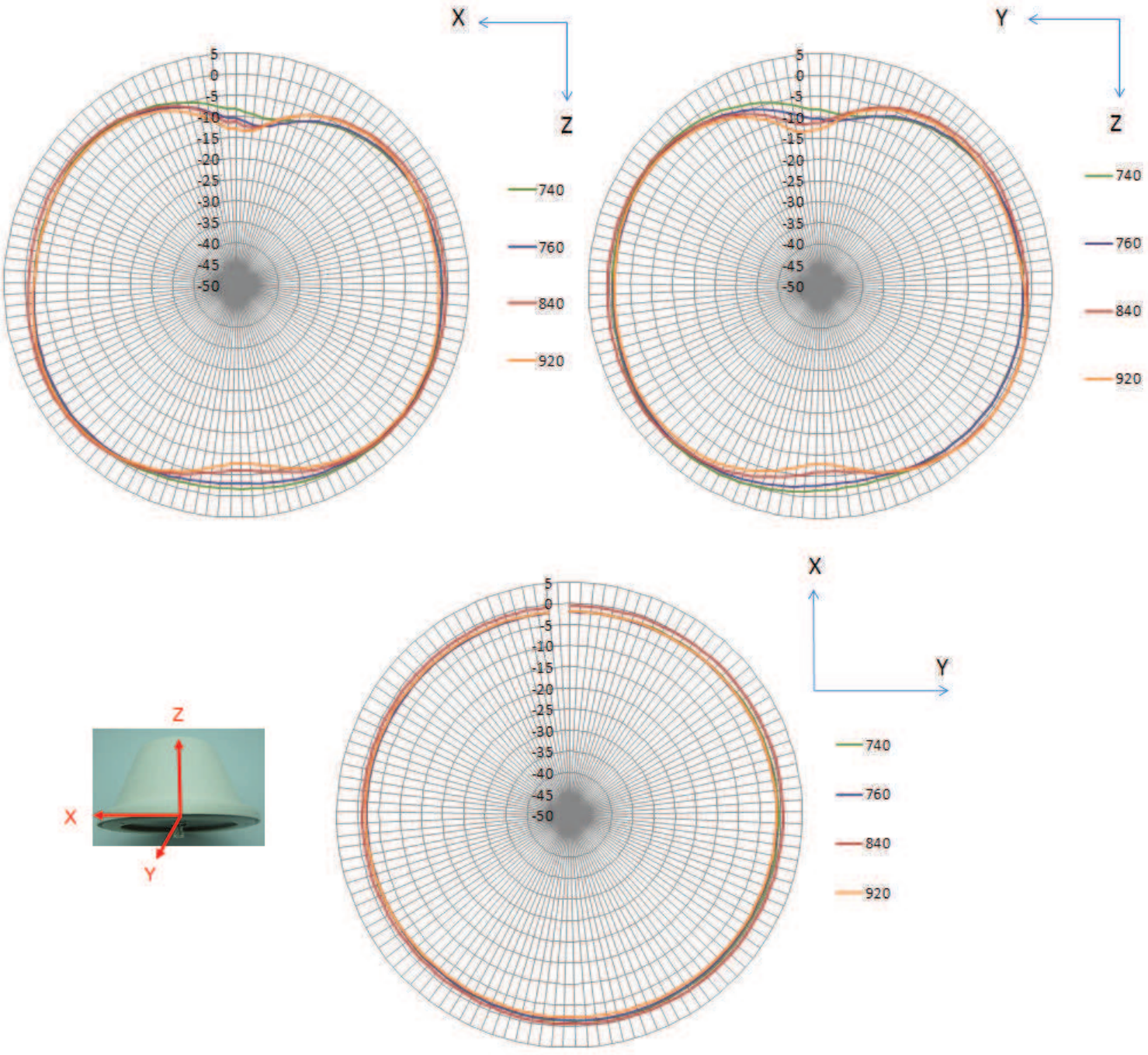
DAS INDOOR ANTENNA

3. Pass cable's connector through ceiling tile hole, and screw it to antenna's connector.

4. Locate antenna and align to support, twist antenna cover clock wise while keeping some pressure against the support until antenna cover snaps into place. A glove with rubber finger tips is recommended for extra grip.

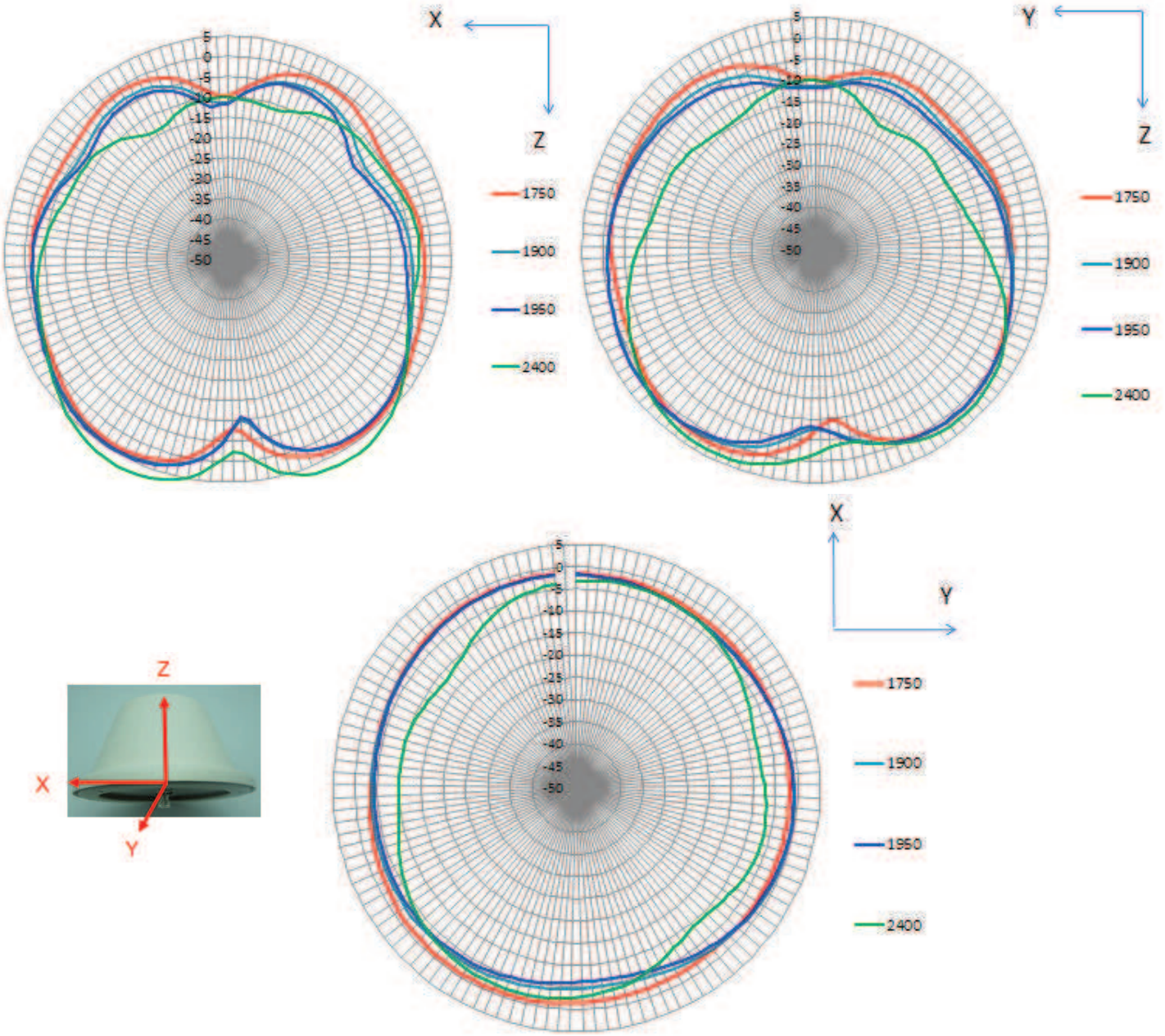
Measured Radiation Patterns in Low Band 698-960MHz.

Frequency in MHZ

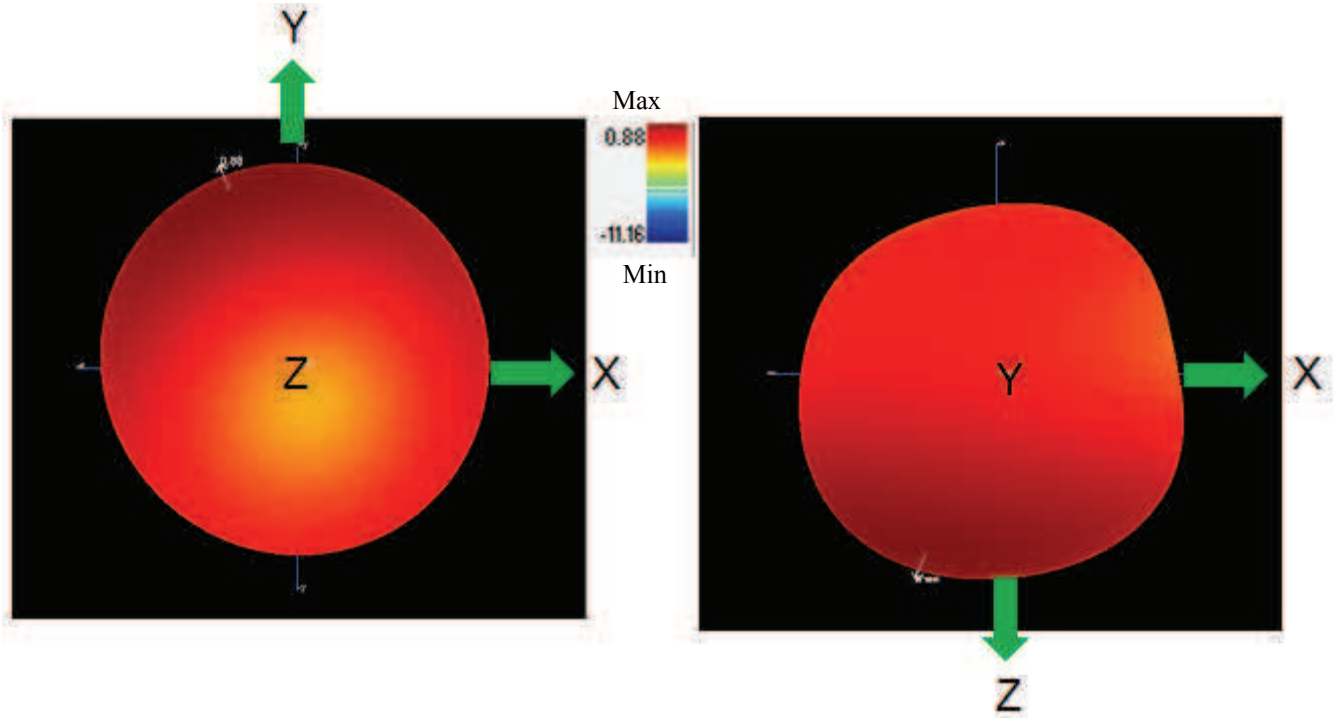


Measured Radiation Patterns in Low Band 1710-2700MHz.

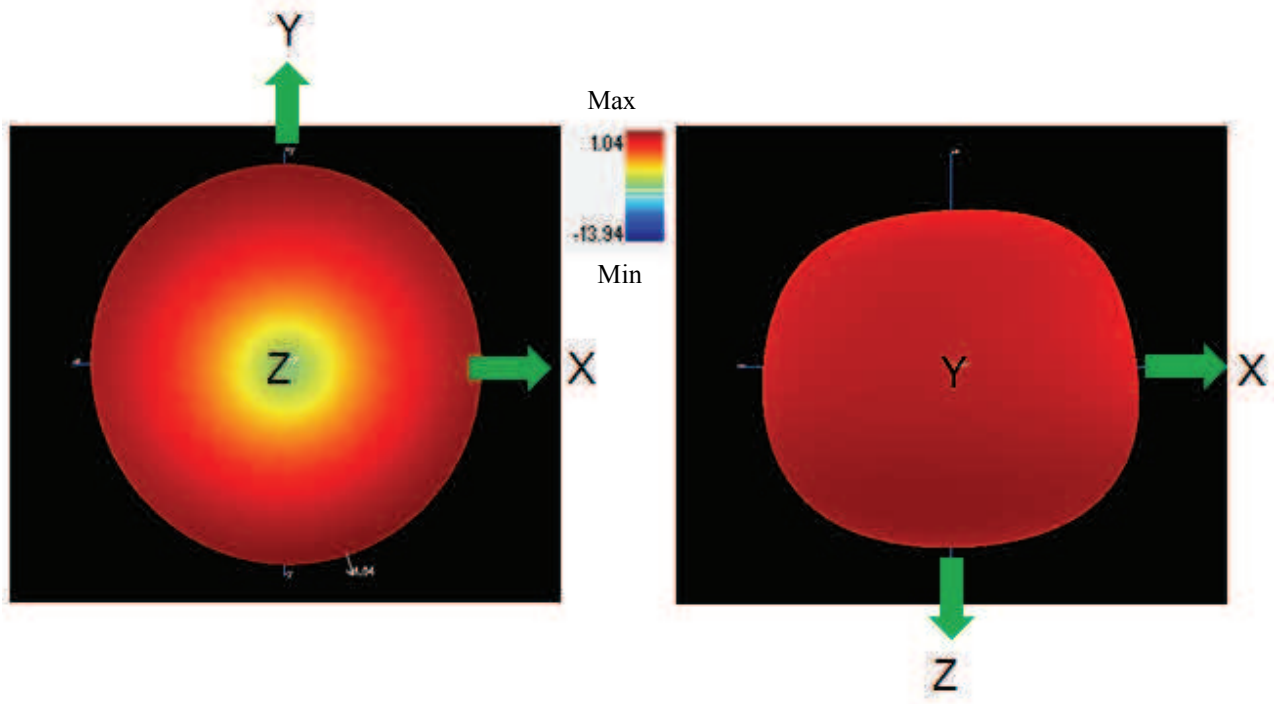
Frequency in MHZ



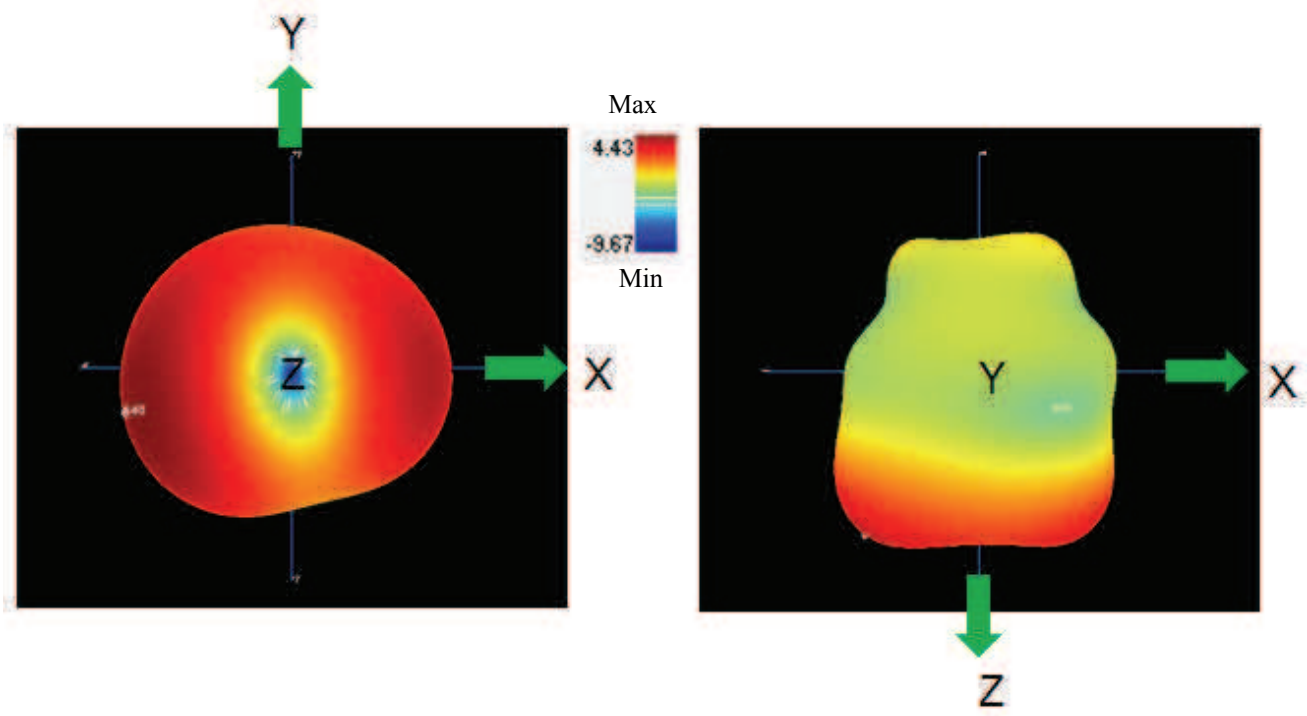
Measured 3D Radiation Patterns at 750MHz



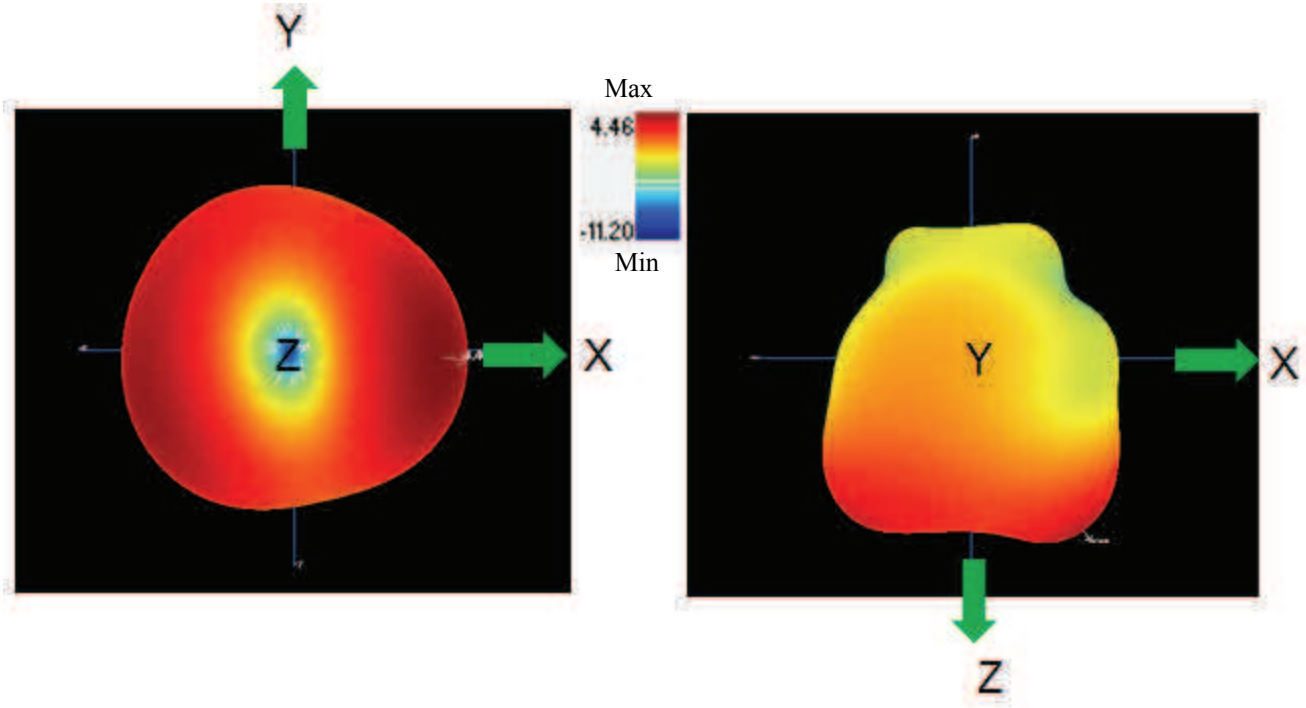
Measured 3D Radiation Patterns at 850MHz



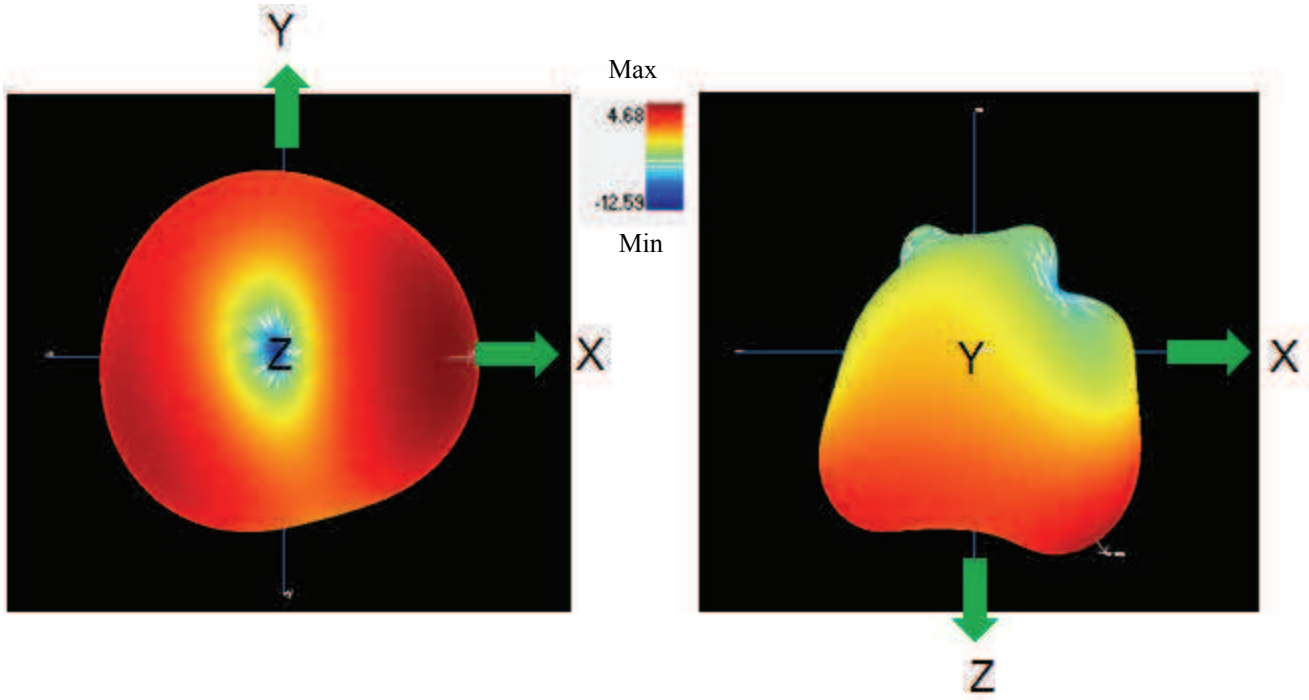
Measured 3D Radiation Patterns at 1750MHz



Measured 3D Radiation Patterns at 1850MHz



Measured 3D Radiation Patterns at 1950MHz



Measured 3D Radiation Patterns at 2150MHz