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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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863 MHz – 870 MHz Dipole 2 dBi Antenna for RP SMA



ORDERING INFORMATION

Order Number	Description
001-0028	868 MHz Dipole Antenna for Reverse Polarity SMA Connector
080-0001	U.FL to SMA Bulkhead Cable, 1.13mm dia, 105mm long

Table 1 Orderable Part Numbers

SPECIFICATIONS

Specification	Value
Gain	+2 dBi
Impedance	50 ohms
Type	Dipole
Polarization	Linear Vertical
VSWR	$\leq 2.0 : 1$
Frequency	863 - 870 MHz
Weight	27g
Size	197 mm x 13 mm
Antenna Color	Black
Operating Temp	-20°C to +65°C

Table 2 Specifications

PHYSICAL DIMENSIONS (MM)

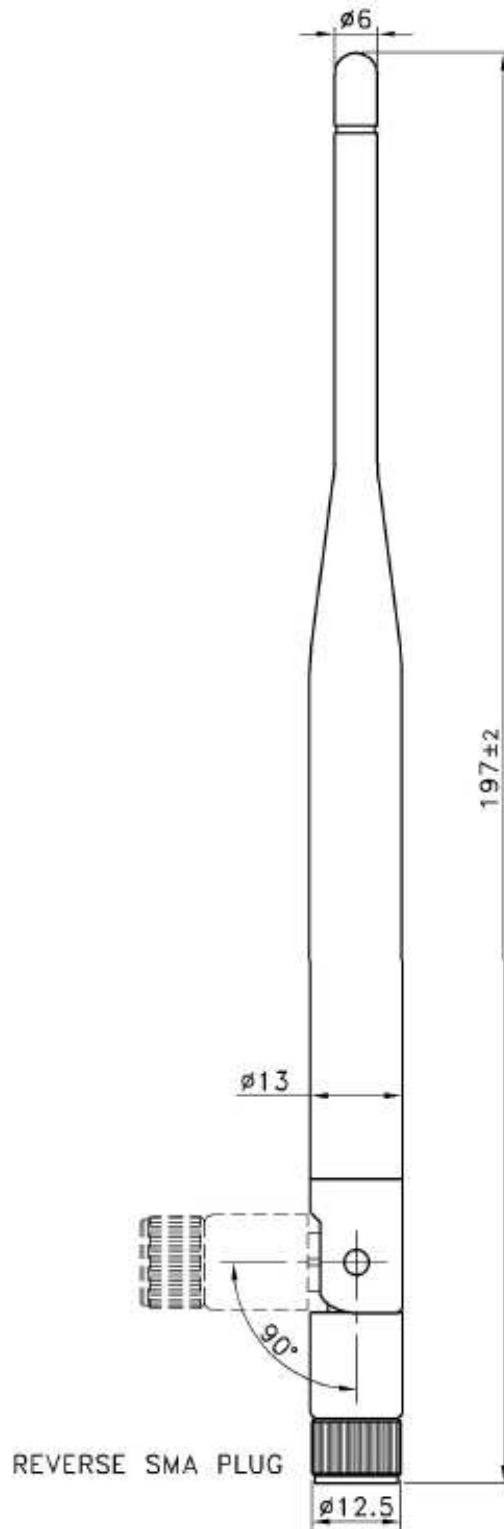


Figure 1 Physical Dimensions

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TEST SETUP

Antenna measurements such as VSWR were measured with an Agilent E5071C Vector Network Analyzer. Radiation patterns were measured with a CMT Planar 804/1 Vector Network Analyzer in a Howland Company 3100 Chamber equivalent. Phase Center is 9 inches above the Phi positioner.

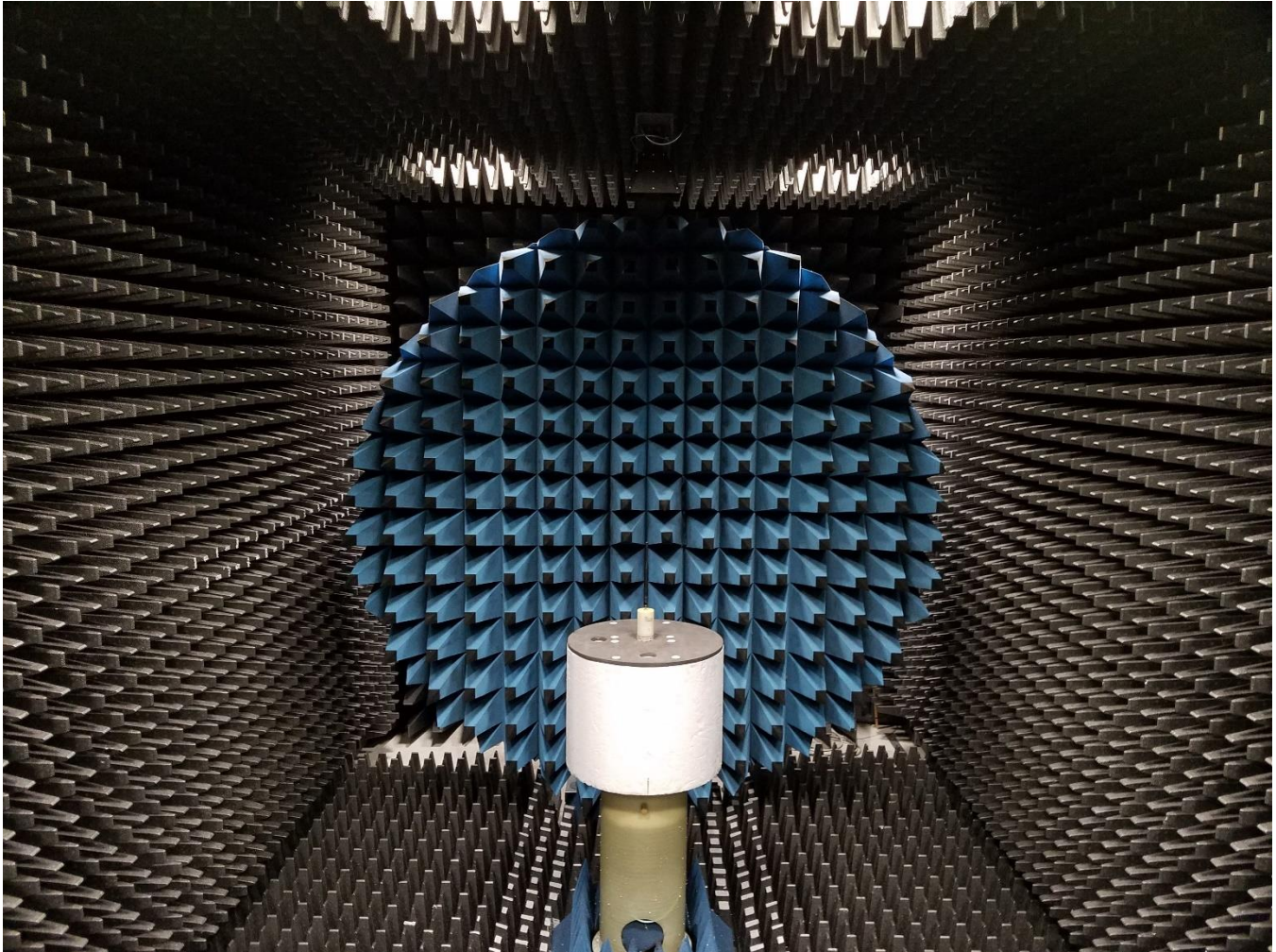


Figure 2 Antenna Chamber

TYPICAL ANTENNA REFLECTION PERFORMANCE

Straight Position

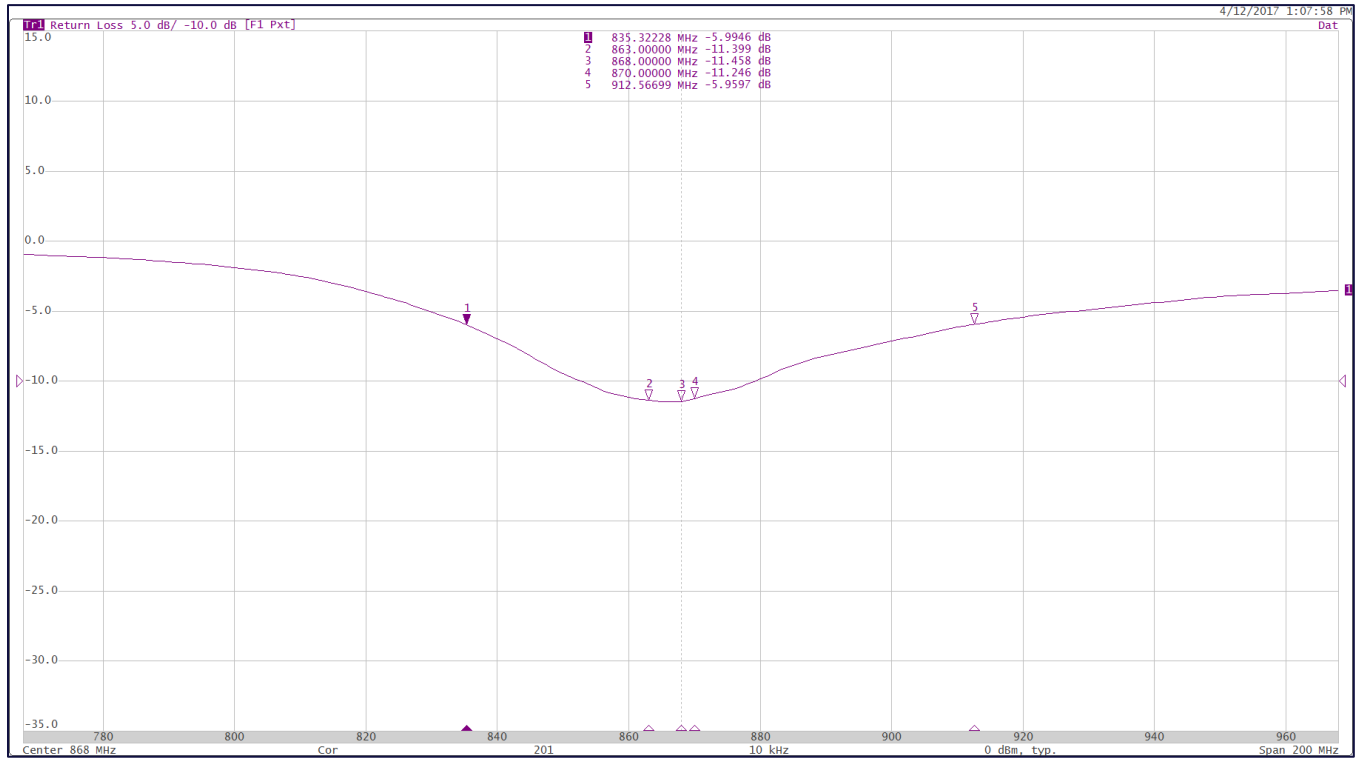


Figure 3 Typical Antenna Reflection Performance

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Bent Position

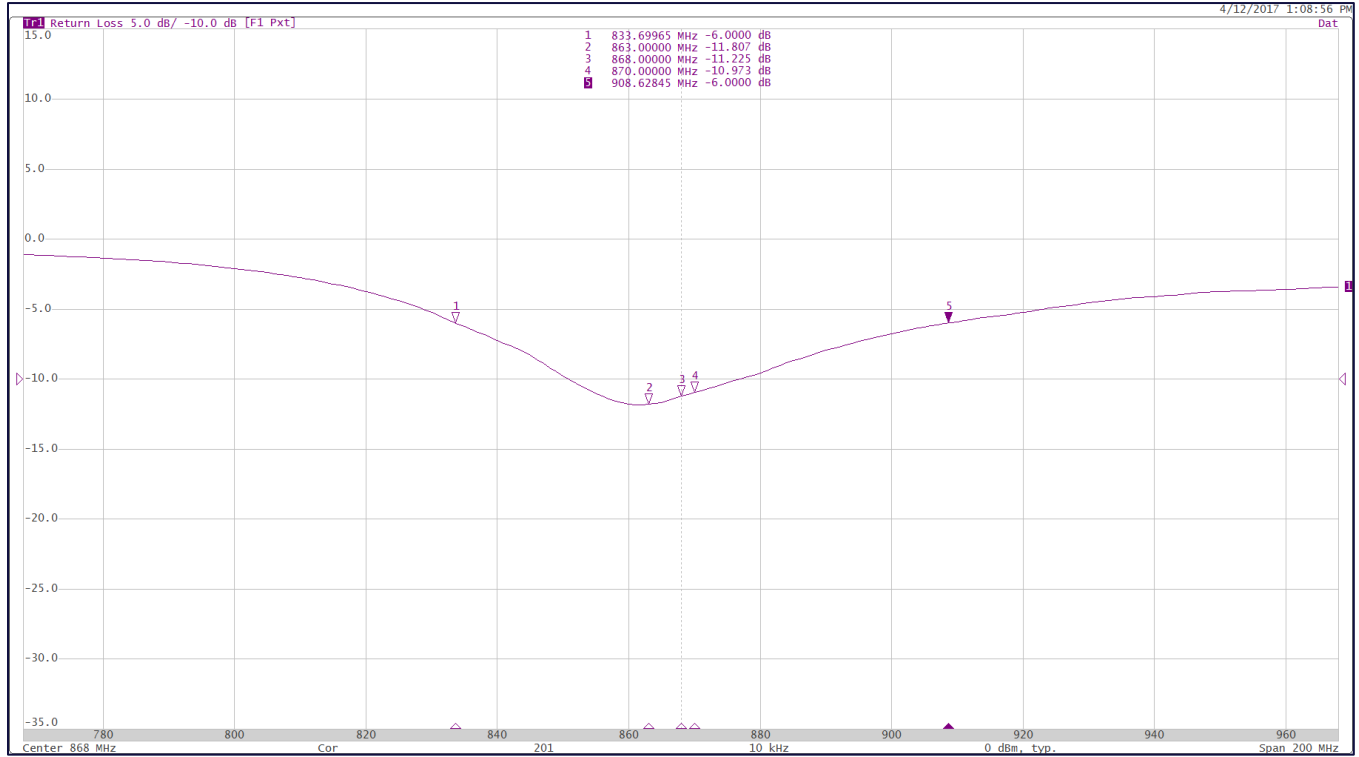


Figure 4 Typical Antenna Reflection Performance

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TYPICAL ANTENNA RADIATION PERFORMANCE

Antenna Measurement Setup:

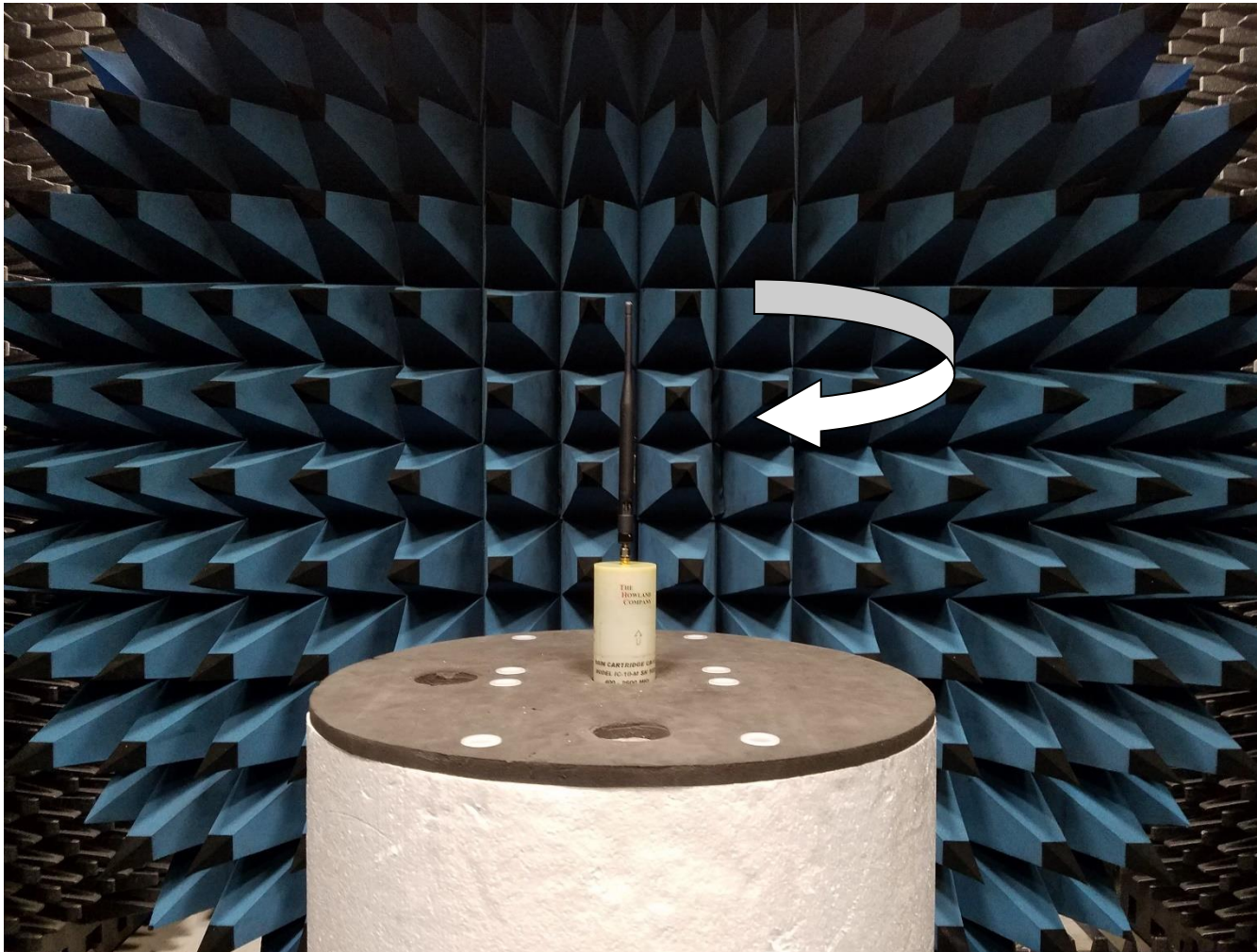


Figure 5 Straight Position Test Set-Up

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Straight Position

Azimuth Conical Cuts at 868 MHz:

Azimuth Gain Pattern Cuts - Total Gain at 868 MHz

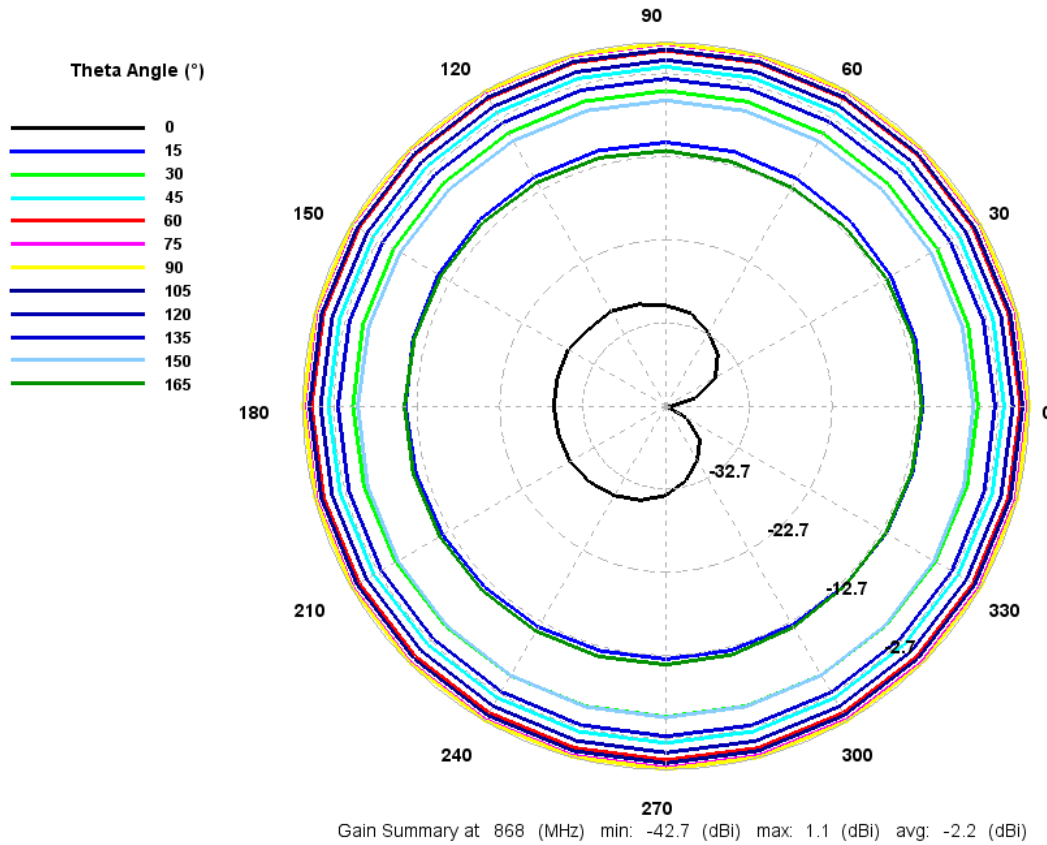


Figure 6 Total Gain Pattern

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3D Plots at 868 MHz:

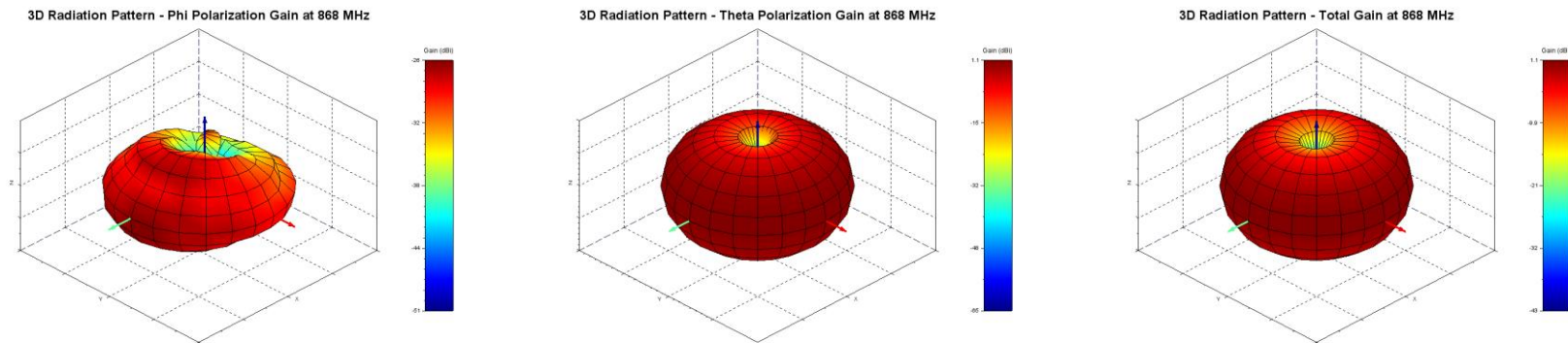


Figure 7 Phi, Theta, and Total Gain Plots

Antenna Measurement Setup:

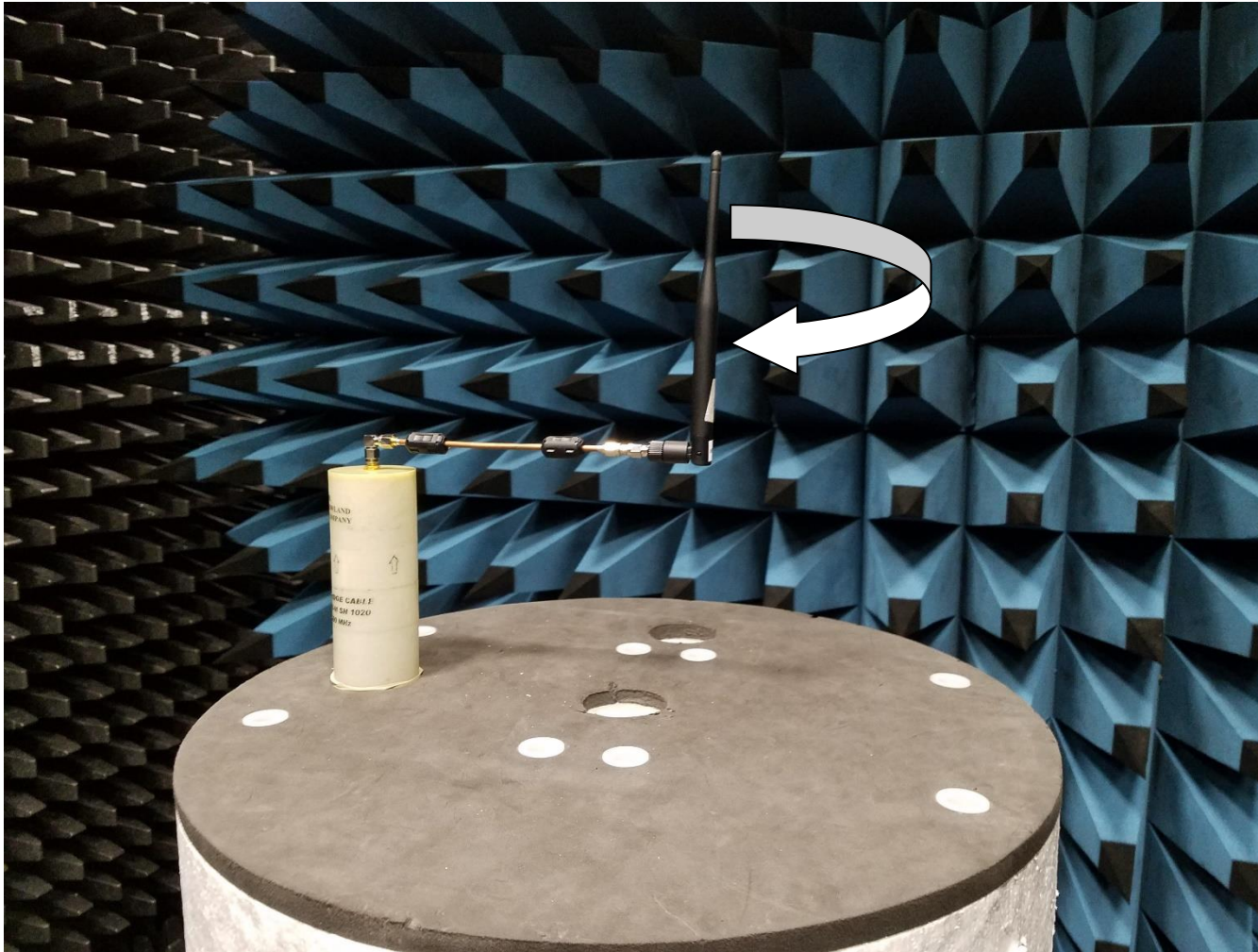


Figure 8 Bent Position Test Set-Up

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Bent Position

Azimuth Conical Cuts at 868 MHz:

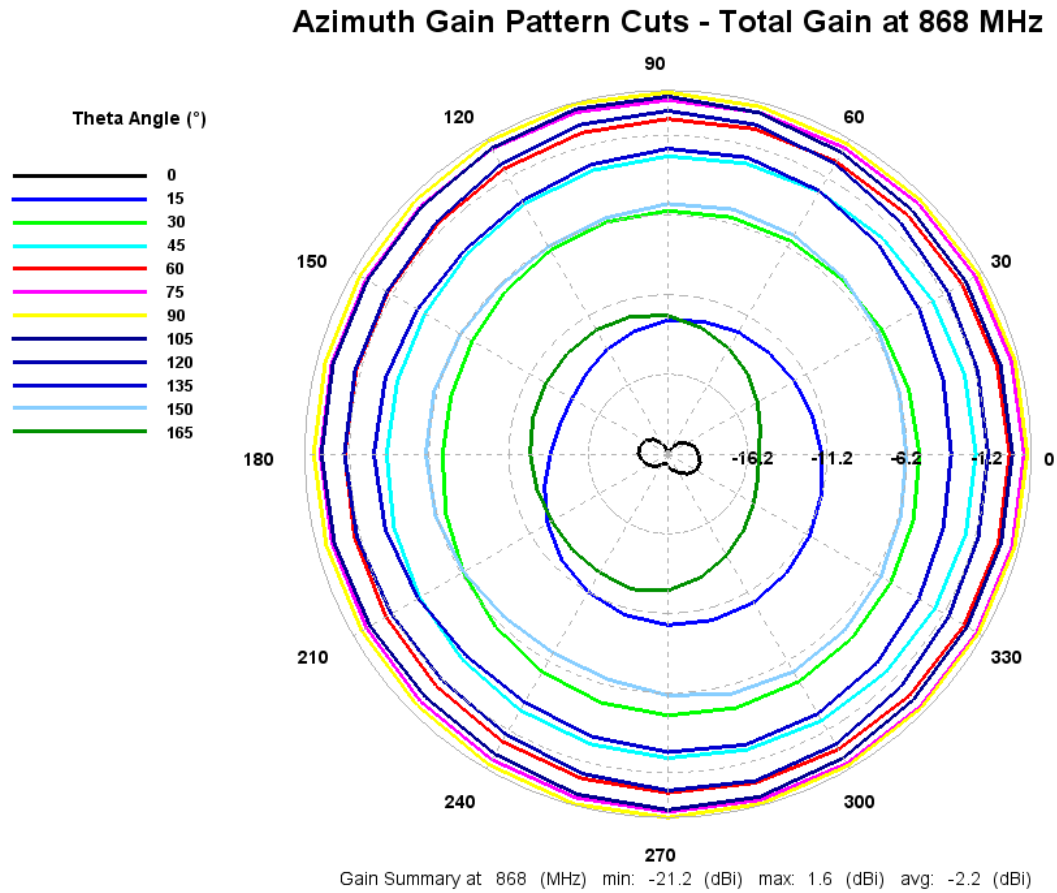


Figure 9 Total Gain Pattern

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3D Plots at 868 MHz:

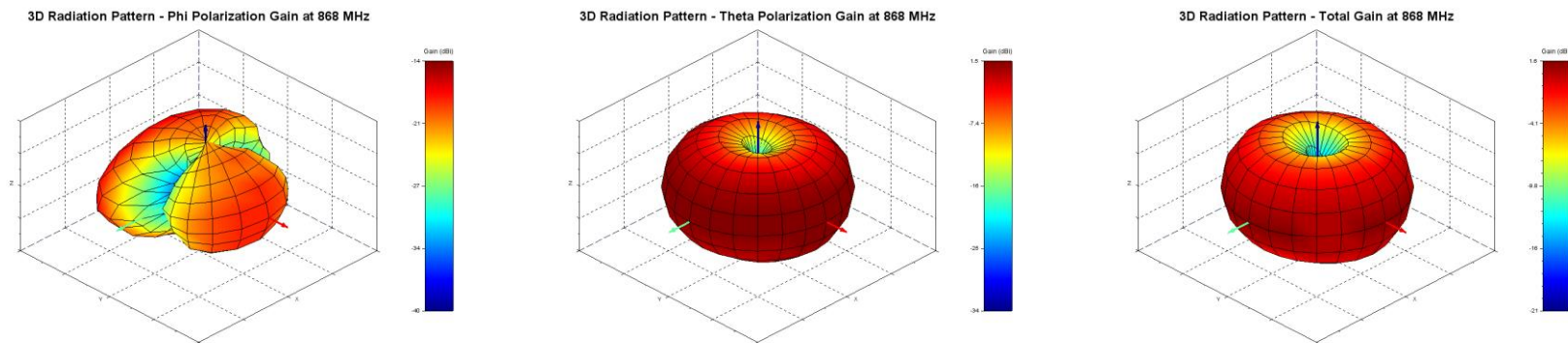


Figure 10 Phi, Theta, and Total Gain Plots

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