

Antenna Specification for SDIO WLAN

2011.09.23



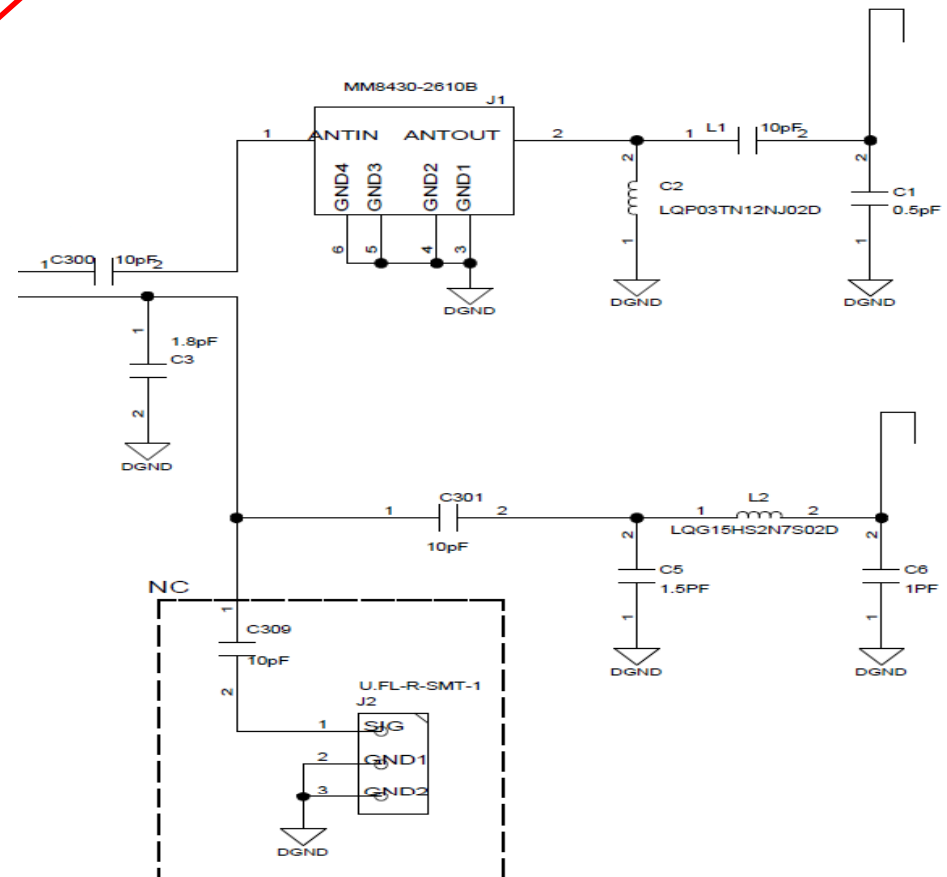
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-  **Return Loss Measurement**
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Antenna Pattern and Matching

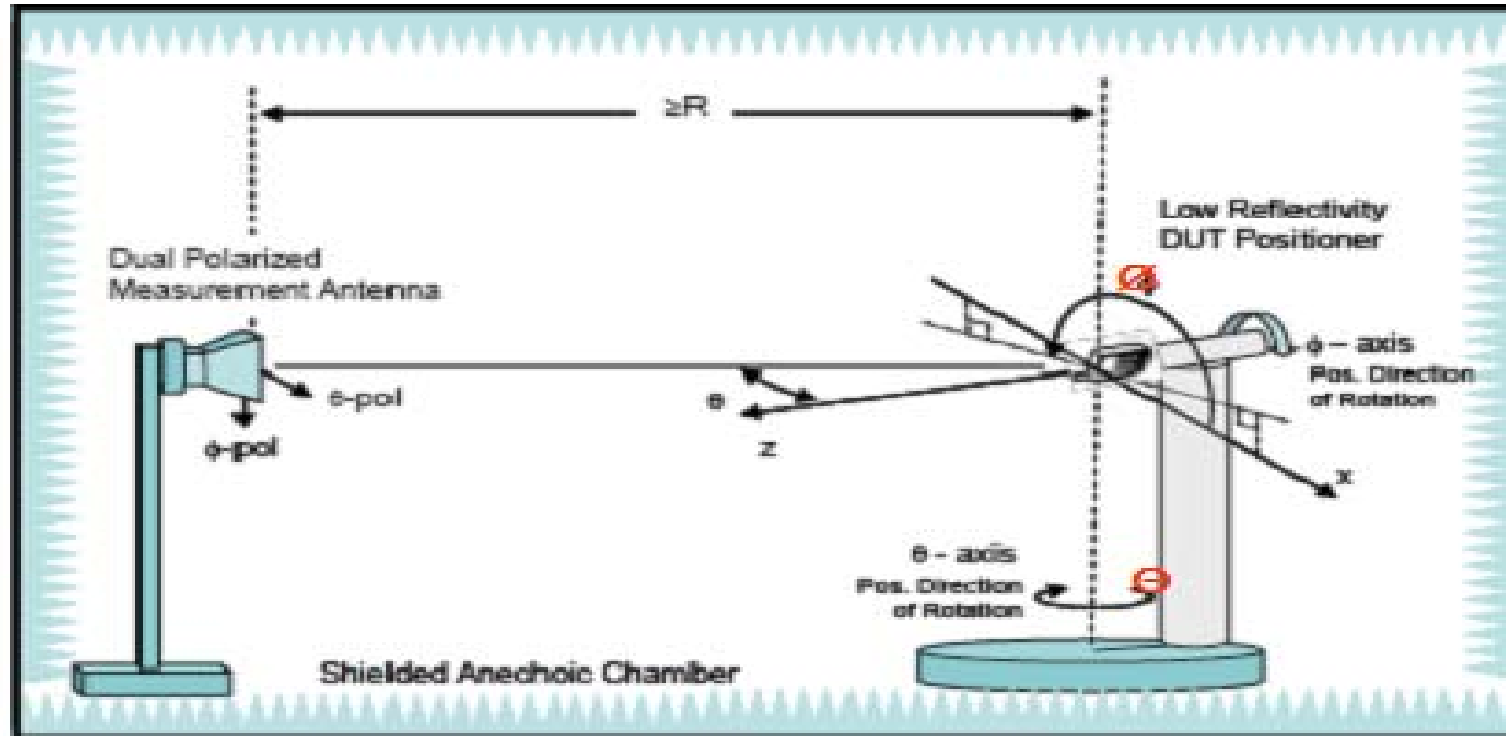


Test Point for Main Antenna



Antenna Test Setup

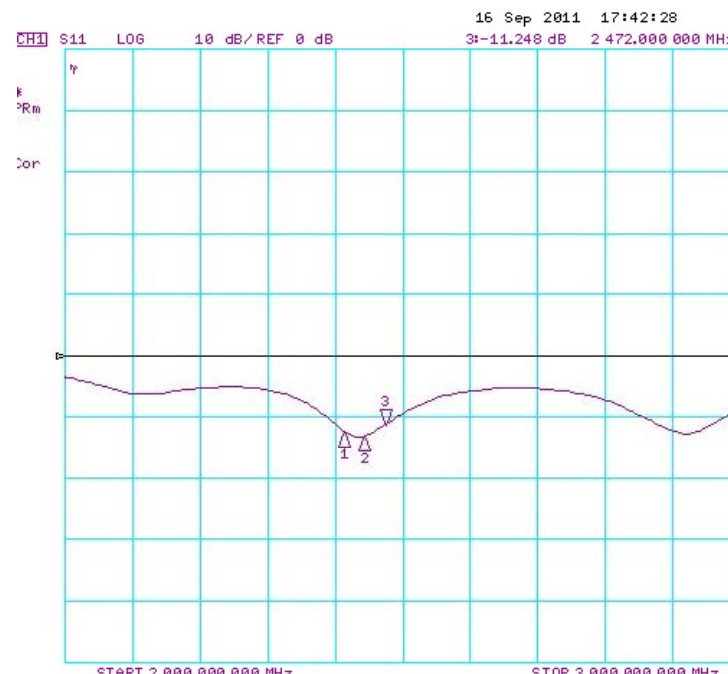
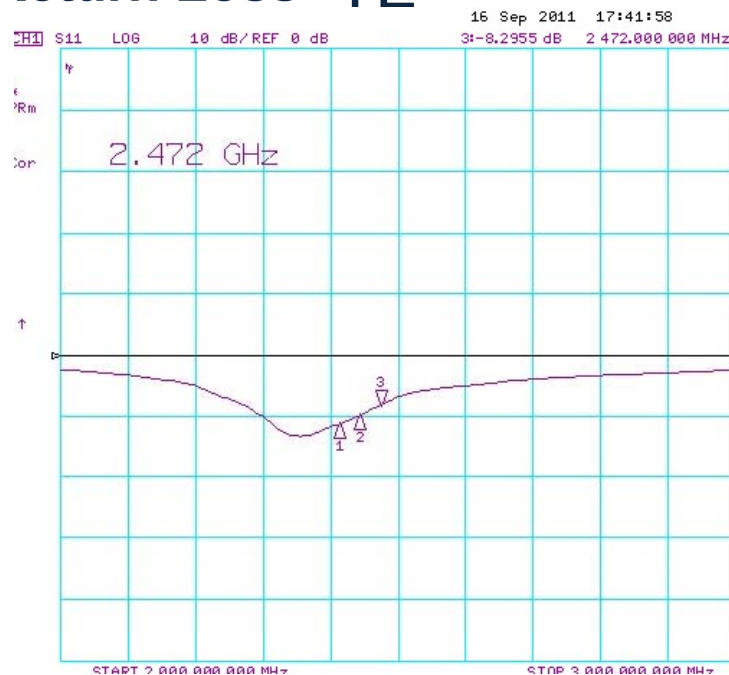
Test Setup



The antenna measurements were used to the standards anechoic chamber. The chamber size is 7m x 4m x 4m and supports test frequencies from 700MHz to 6GHz.

Return Loss Measurement

Return Loss 사진



Main / Aux	Return Loss (S11)	Note
Main Antenna	-11.13dB @ 2412MHz -9.80dB @ 2442MHz -8.30dB @ 2472MHz	
Aux Antenna	-12.40dB @ 2412MHz -13.30dB @ 2442MHz -11.25dB @ 2472MHz	

Pattern Test Result

Antenna Gain Summary

✓ Main Antenna

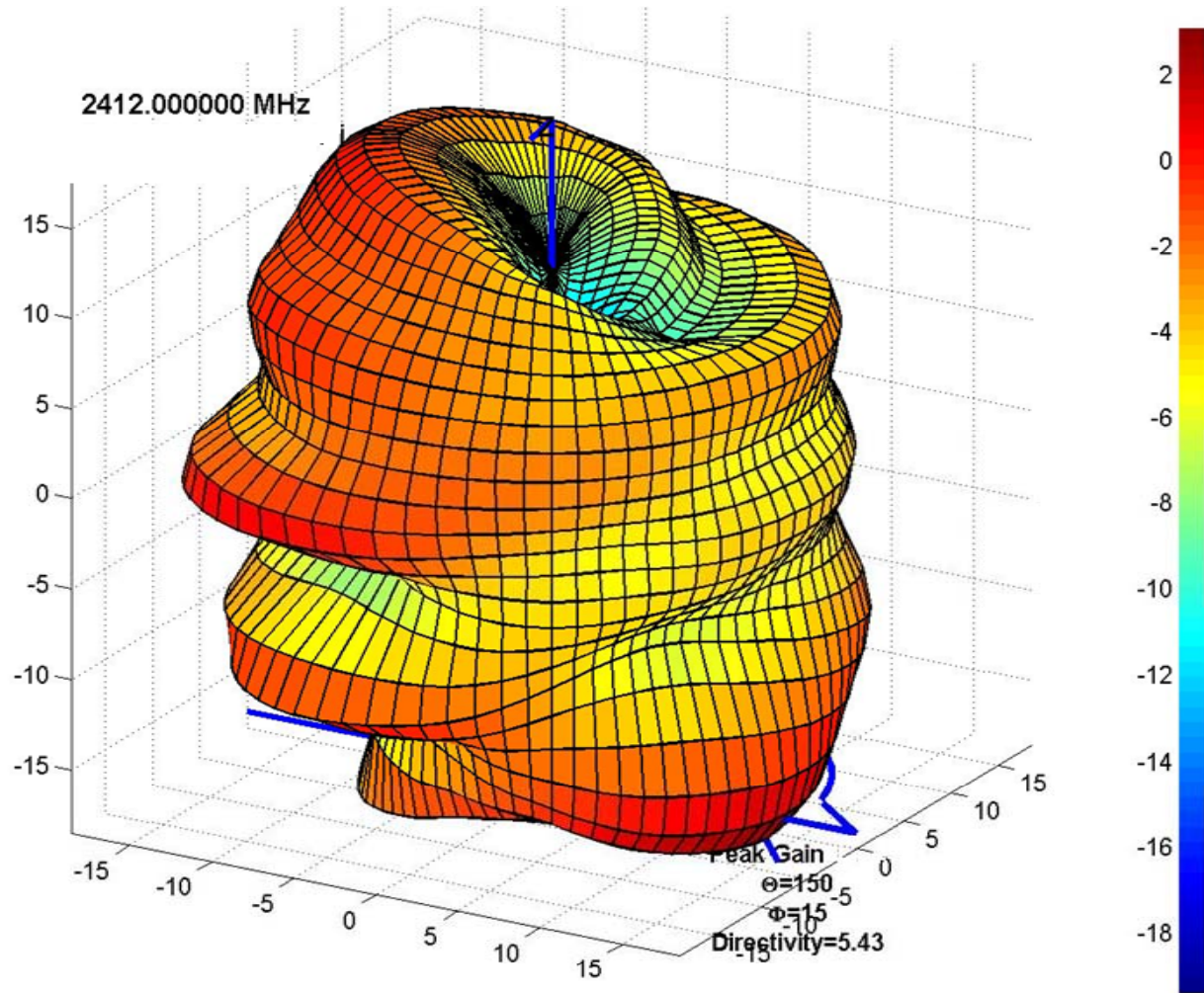
Freq.(MHz)	Vertical		Horizon	
	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)
2412	2.47	-4.43	1.45	-6.52
2442	2.56	-4.14	1.19	-6.93
2472	3.05	-3.38	1.25	-6.70

✓ Aux Antenna

Freq.(MHz)	Vertical		Horizon	
	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)
2412	-2.41	-2.41	-1.21	-6.24
2442	-1.36	-1.36	-0.25	-5.35
2472	-0.27	-0.27	0.50	-4.38

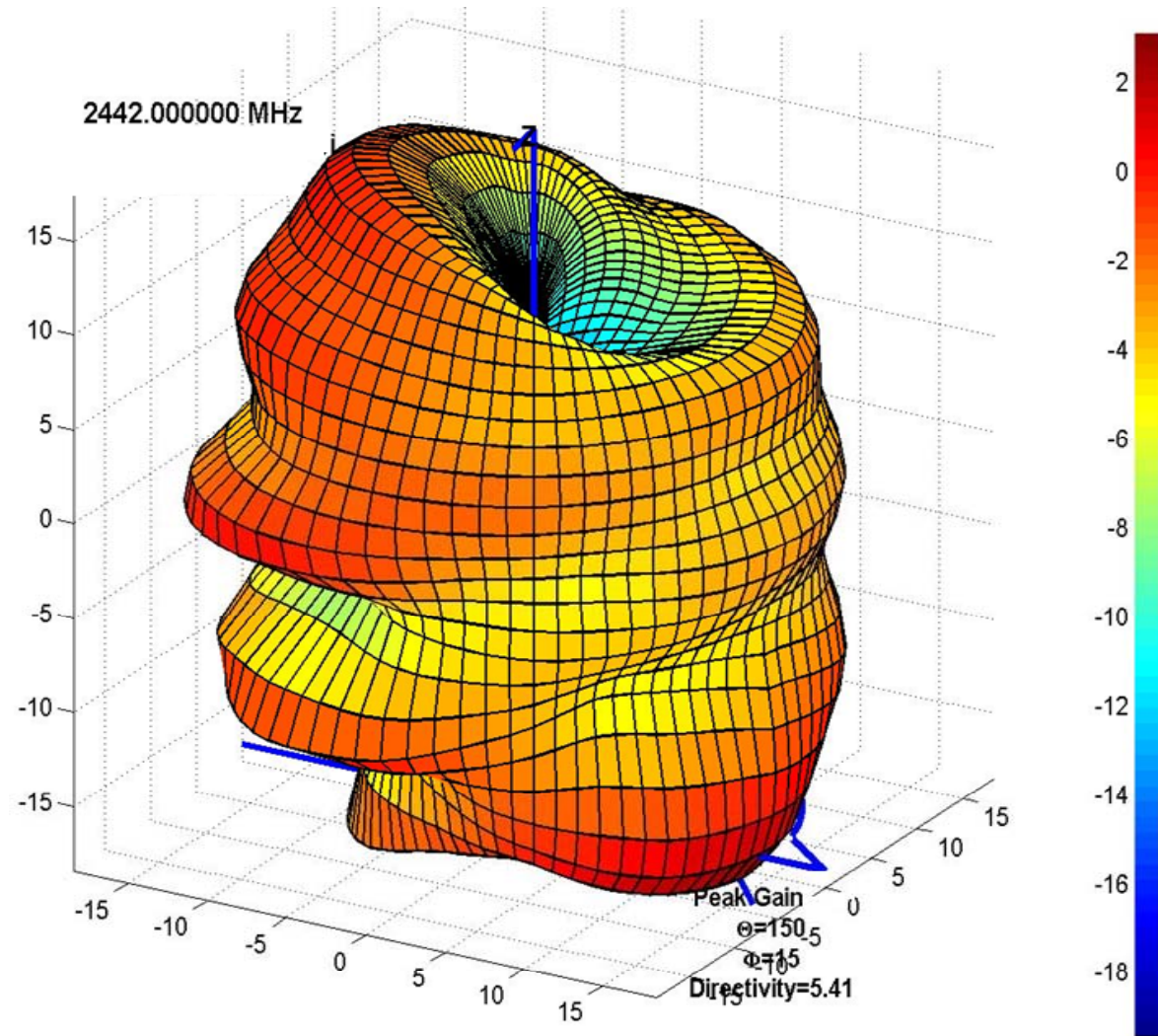
Main Antenna @ 2412MHz

3D Radiation Pattern



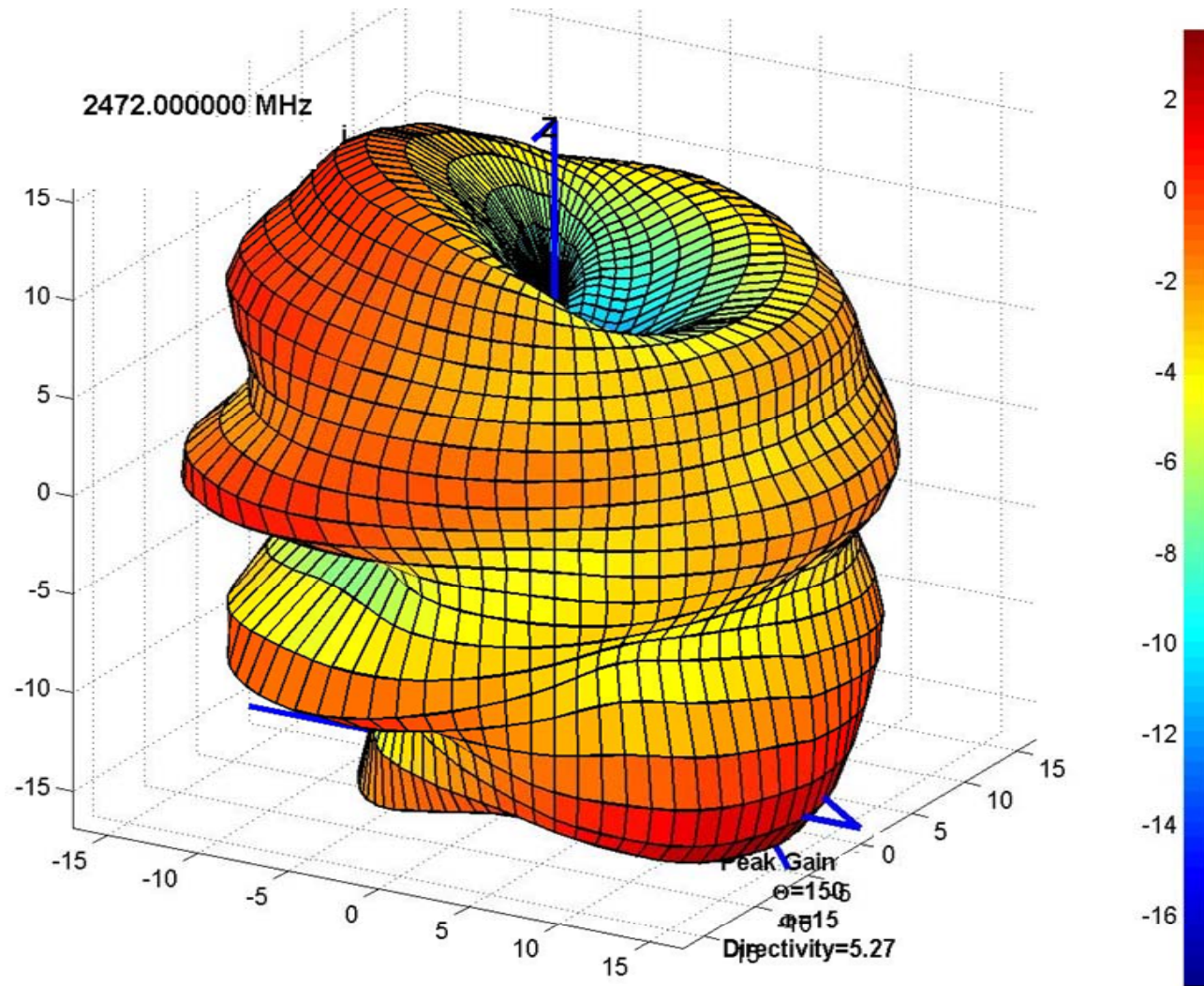
Main Antenna @ 2442MHz

3D Radiation Pattern



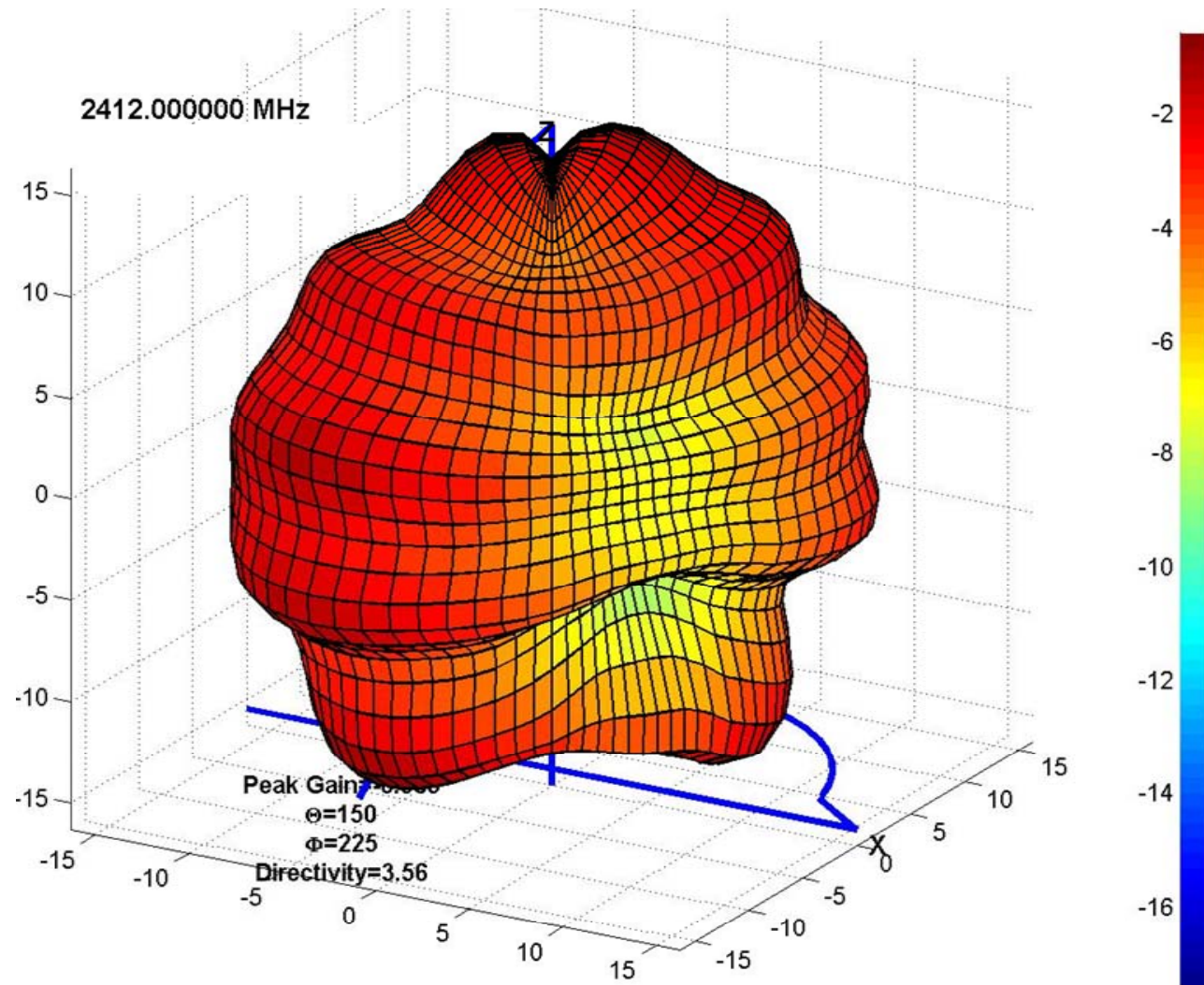
Main Antenna @ 2472MHz

3D Radiation Pattern



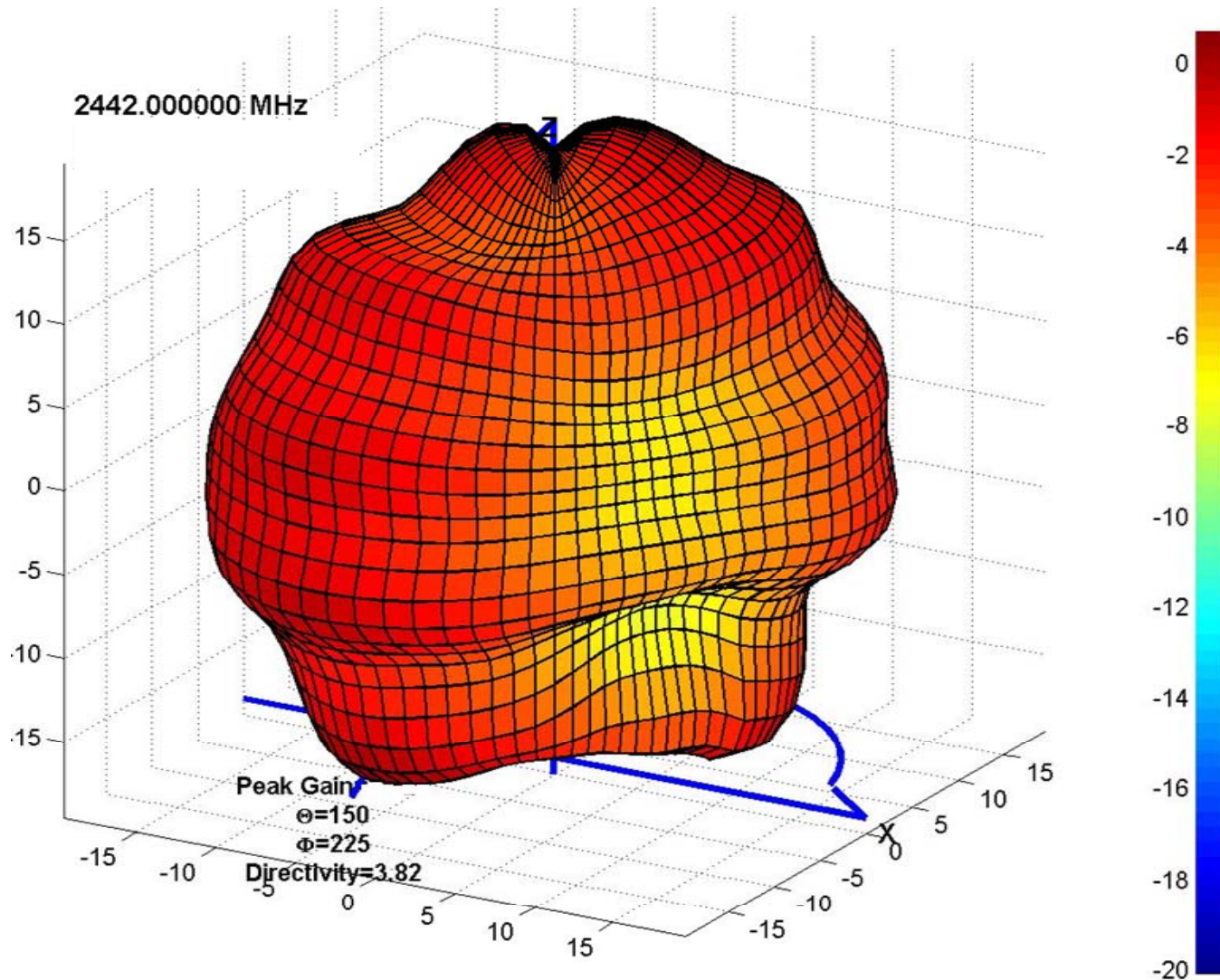
Aux Antenna @ 2412MHz

3D Radiation Pattern



Aux Antenna @ 2442MHz

3D Radiation Pattern



Aux Antenna @ 2472MHz

3D Radiation Pattern

