

Intermec

Technologies Corporation

Intermec Radio Group Antenna Measurement System

Manufacturer: Laird Technologies

Model No: 805-670-001

Serial No: WWAN RF Test

Operator: Paul Hulett

Comments: Receive Only WWAN Diversity

Test Method: Two-Axis Dual-Polarization Pattern Measurement

Type: PIFA

Date: 11/10/2010

Summary Page

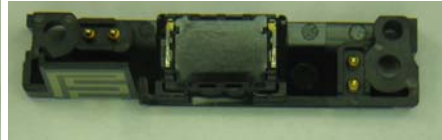
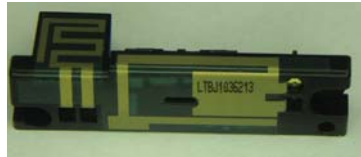
Total	Frequency (MHz)	780	800	824	850	869	894
	Peak Gain (dBi)	-6.6978	-7.1006	-5.1693	-2.34711	-1.88891	-2.4212
	Average Gain (dB)	-12.3223	-10.4253	-5.5041	-4.5882	-3.5583	-4.3759

Total	Frequency (MHz)	915	960	980	1574	1575	1576
	Peak Gain (dBi)	-2.3609	-5.9124	-8.3106	-6.79448	-6.63729	-6.48084
	Average Gain (dB)	-6.267	-10.538	-13.7767	-12.3285	-12.2929	-12.263

Total	Frequency (MHz)	1695	1710	1750	1800	1850	1880
	Peak Gain (dBi)	-3.84499	1.77517	1.58724	0.275695	1.5578	1.23265
	Average Gain (dB)	-7.3288	-4.80783	-3.34237	-3.25782	-3.04505	-3.14808

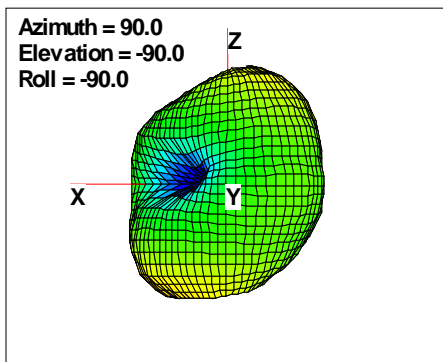
Total	Frequency (MHz)	1900	1920	1930	1960	1990	2110
	Peak Gain (dBi)	1.69171	1.51916	1.02215	1.48942	1.47139	0.91979
	Average Gain (dB)	-2.91048	-3.4868	-3.14829	-3.4169	-3.69129	-5.10687

Total	Frequency (MHz)	2160	2170	2190	2200		
	Peak Gain (dBi)	0.87977	0.65272	-1.87854	-3.59553		
	Average Gain (dB)	-4.80255	-7.76484	-9.34817	-9.17437		

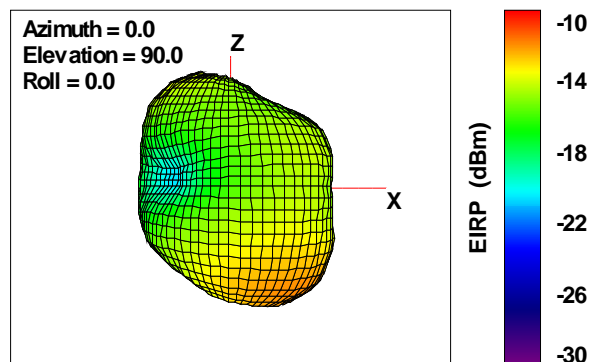


WAN Free-Space Total EIRP, 780 MHz

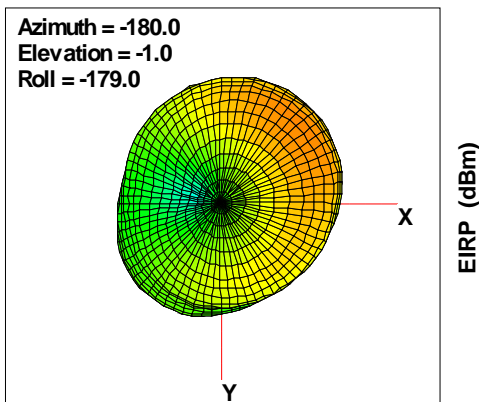
Total EIRP, Right Side View



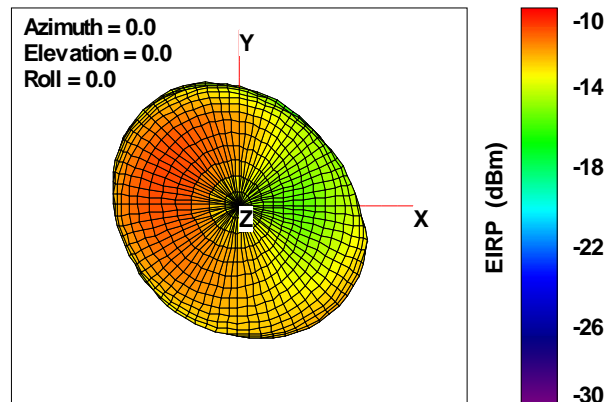
Total EIRP, Left Side View



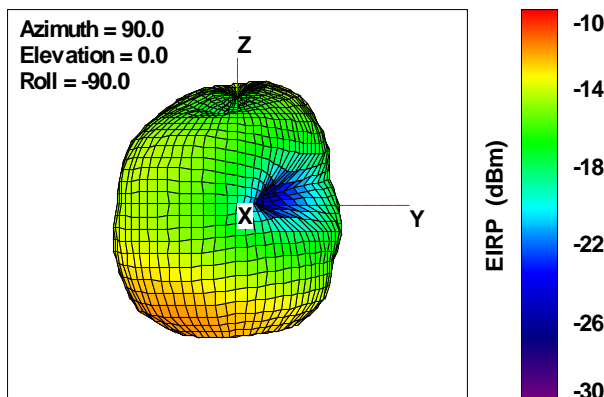
Total EIRP, Bottom View



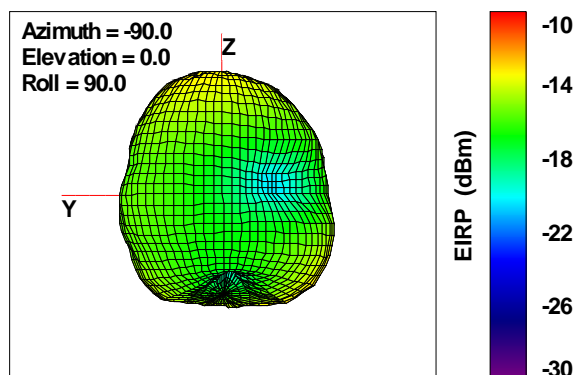
Total EIRP, Top View



Total EIRP, Front Face View

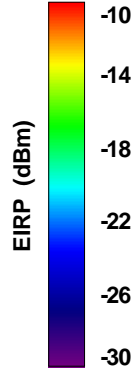
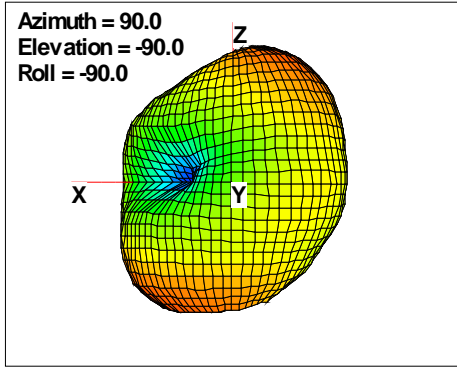


Total EIRP, Back Face View

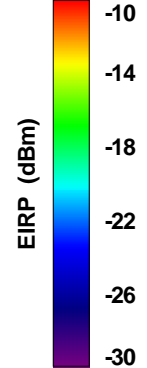
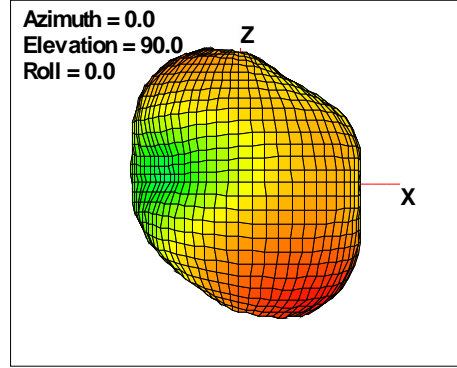


WAN Free-Space Total EIRP, 800 MHz

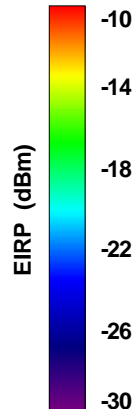
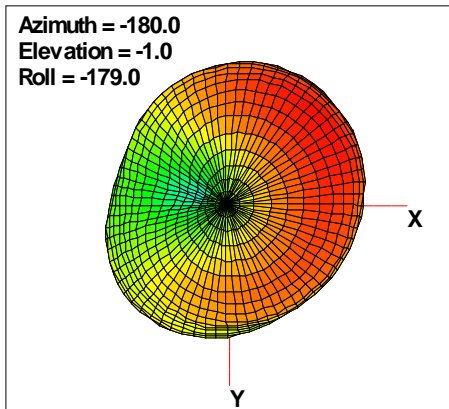
Total EIRP, Right Side View



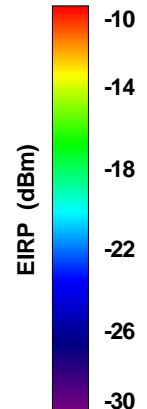
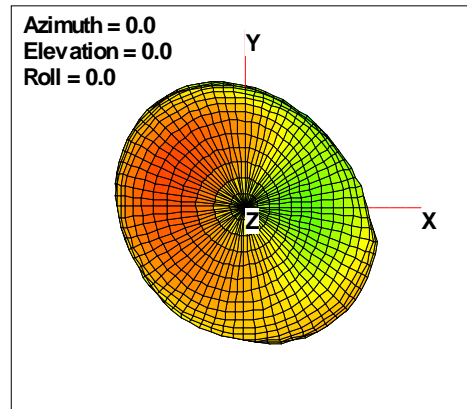
Total EIRP, Left Side View



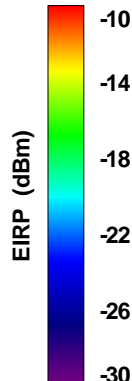
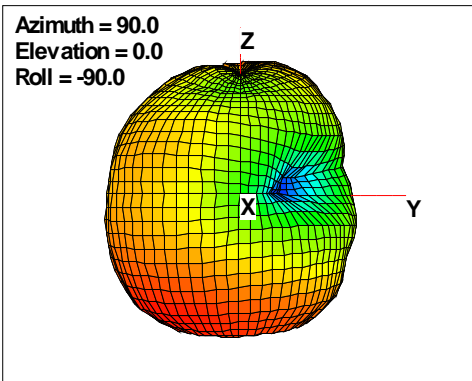
Total EIRP, Bottom View



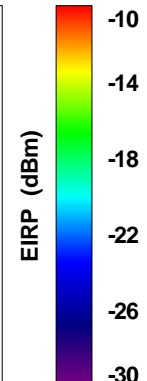
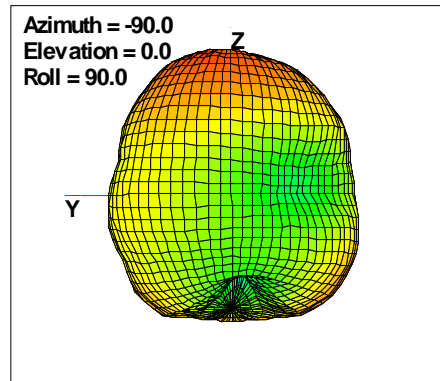
Total EIRP, Top View



Total EIRP, Front Face View

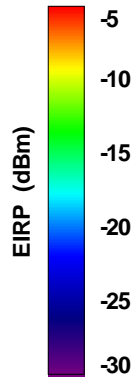
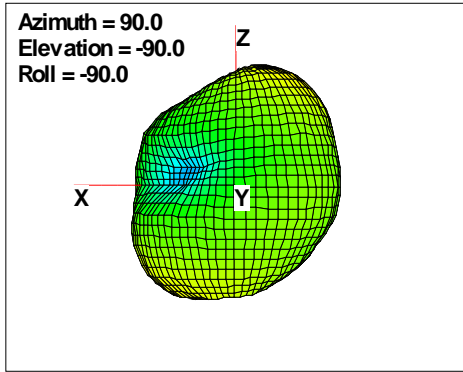


Total EIRP, Back Face View

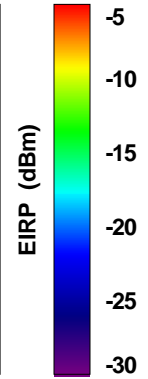
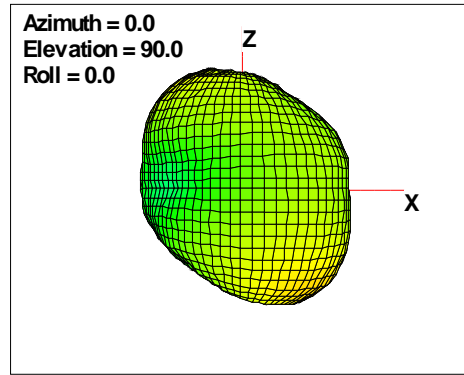


WAN Free-Space Total EIRP, 824 MHz

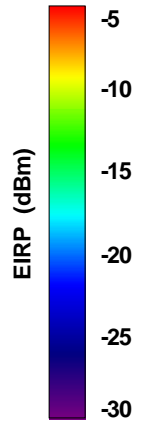
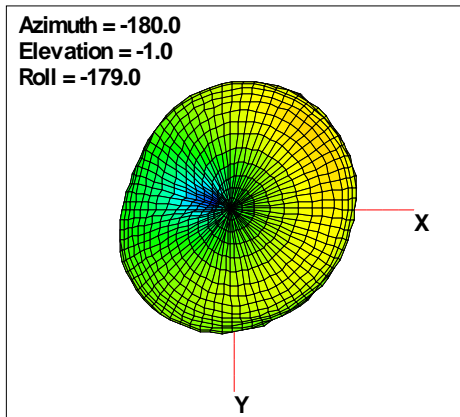
Total EIRP, Right Side View



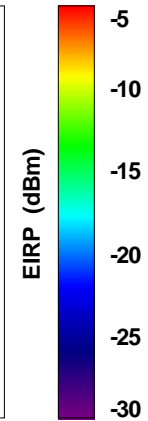
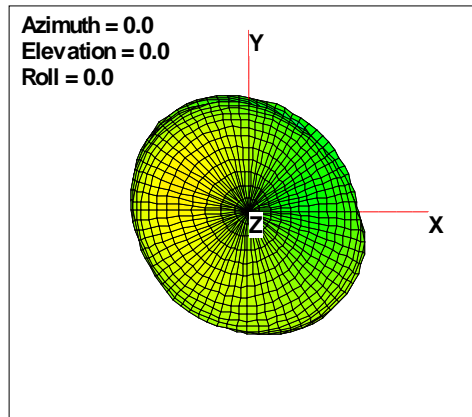
Total EIRP, Left Side View



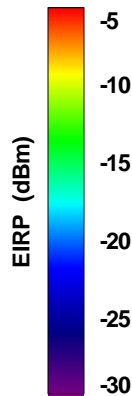
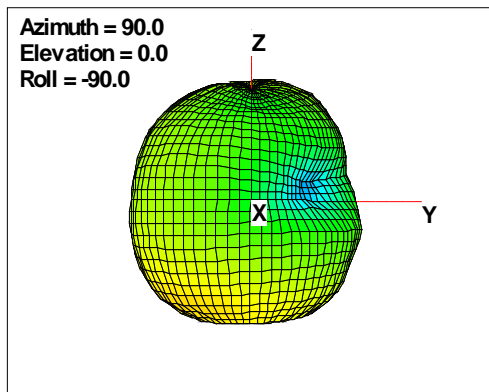
Total EIRP, Bottom View



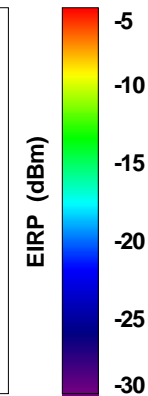
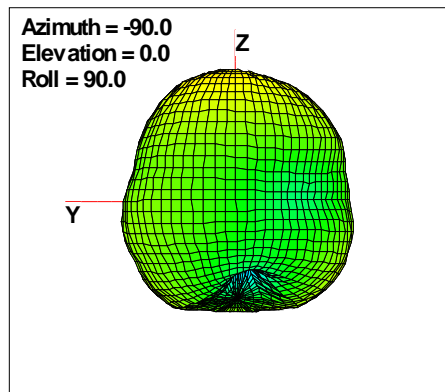
Total EIRP, Top View



Total EIRP, Front Face View

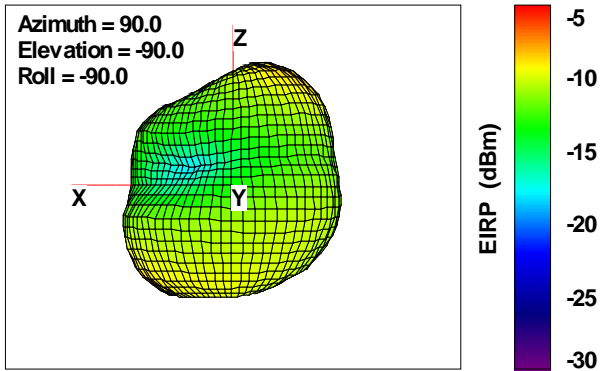


Total EIRP, Back Face View

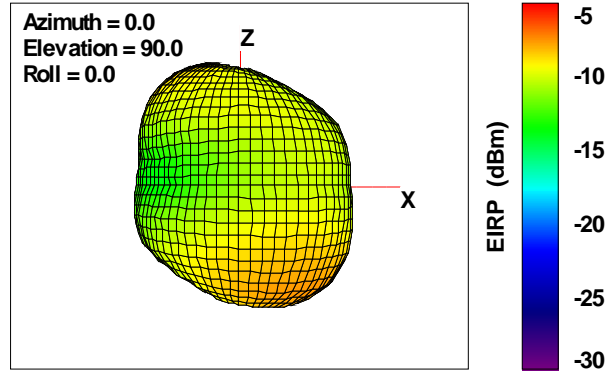


WAN Free-Space Total EIRP, 850MHz

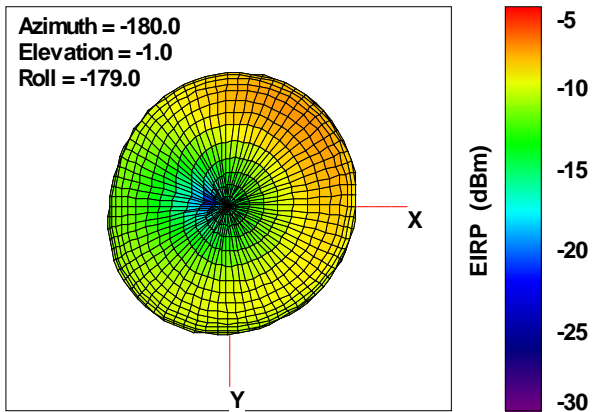
Total EIRP, Right Side View



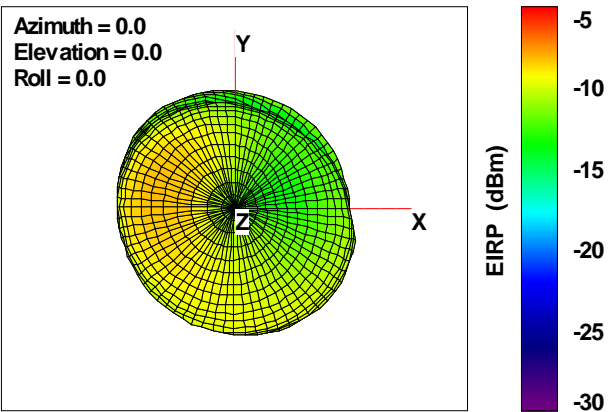
Total EIRP, Left Side View



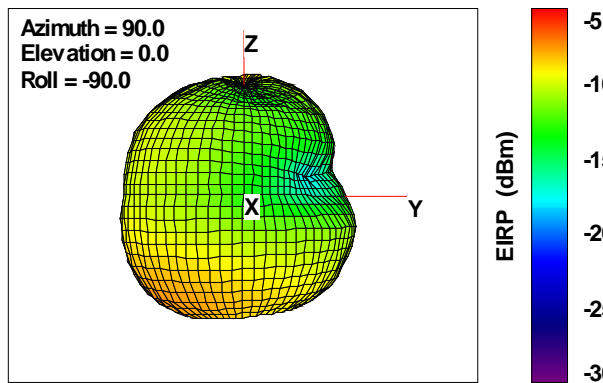
Total EIRP, Bottom View



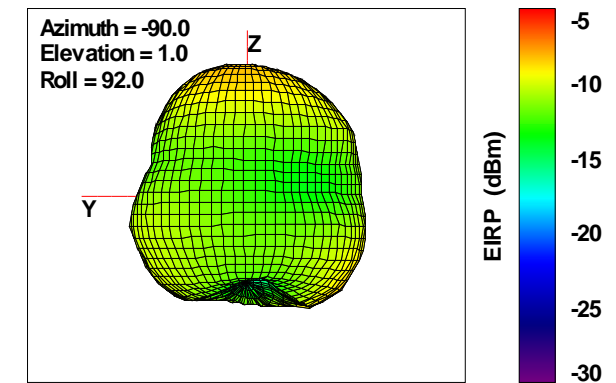
Total EIRP, Top View



Total EIRP, Front Face View

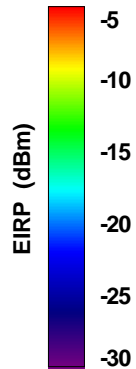
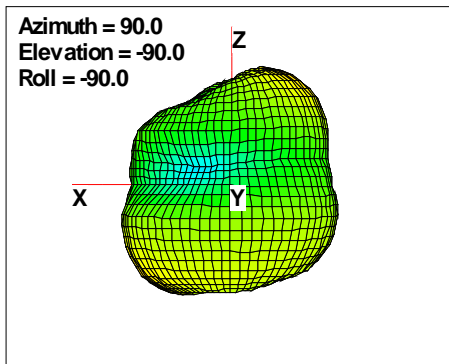


Total EIRP, Back Face View

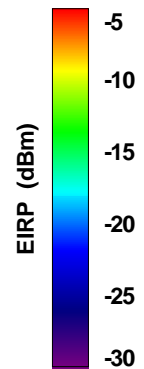
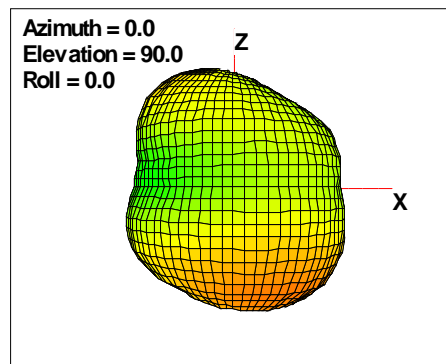


WAN Free-Space Total EIRP, 869MHz

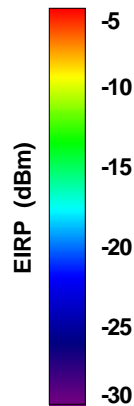
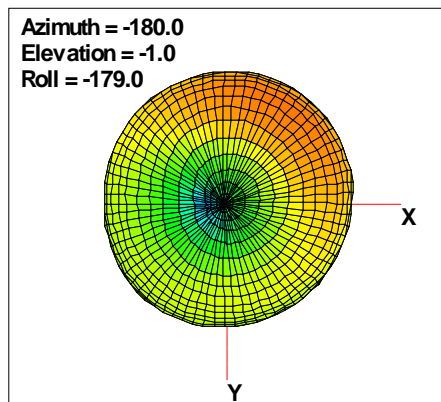
Total EIRP, Right Side View



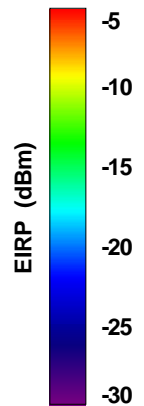
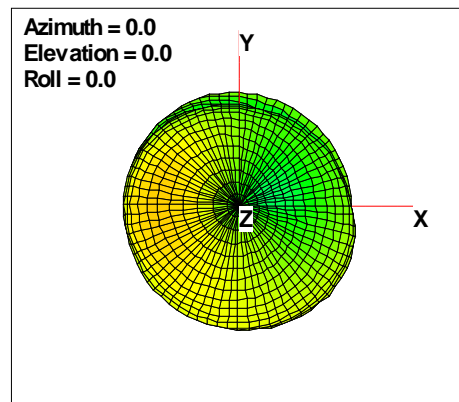
Total EIRP, Left Side View



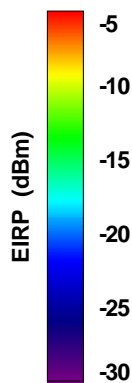
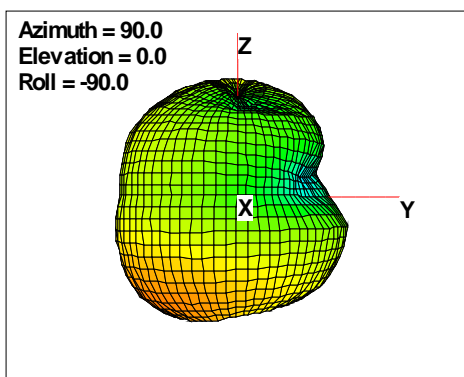
Total EIRP, Bottom View



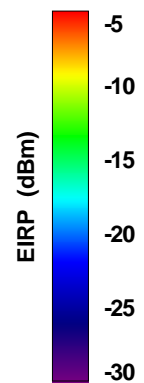
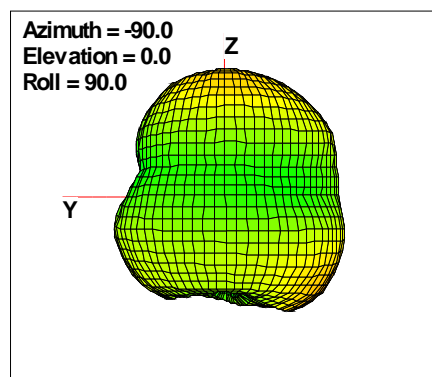
Total EIRP, Top View



Total EIRP, Front Face View

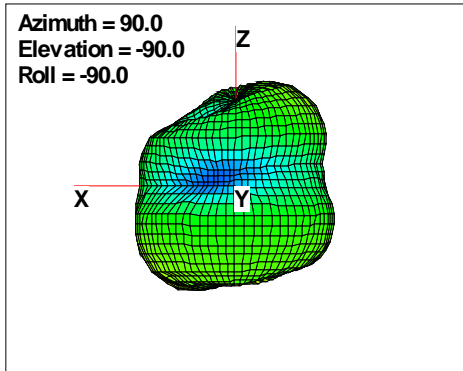


Total EIRP, Back Face View

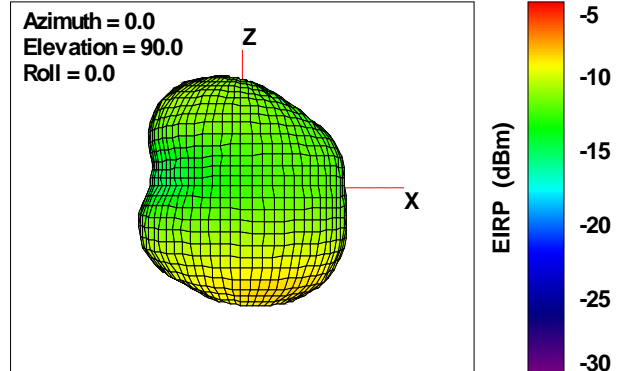


WAN Free-Space Total EIRP, 894MHz

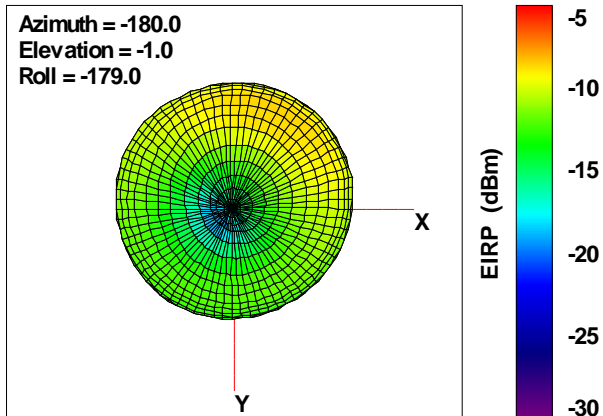
Total EIRP, Right Side View



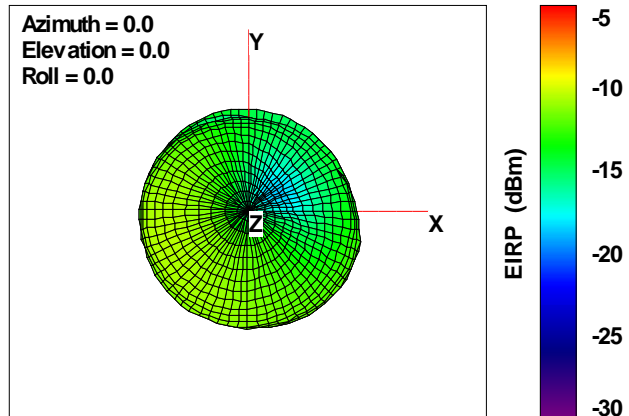
Total EIRP, Left Side View



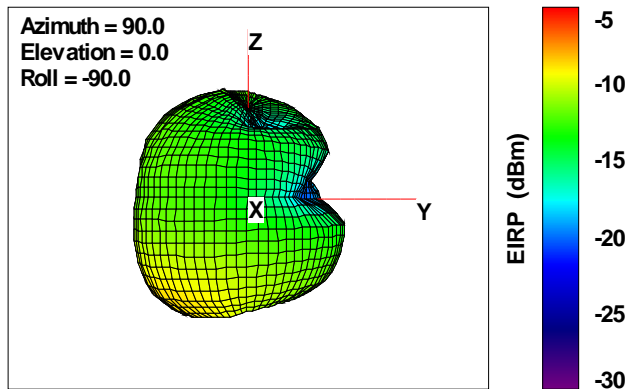
Total EIRP, Bottom View



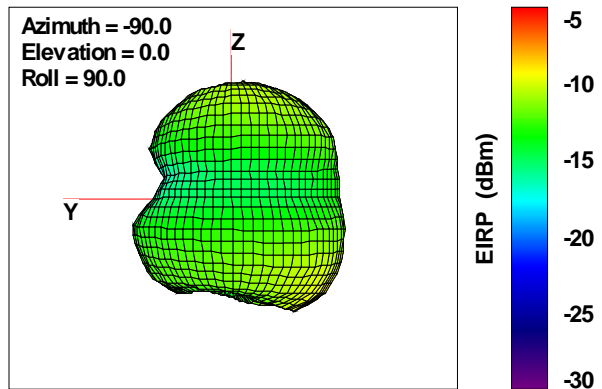
Total EIRP, Top View



Total EIRP, Front Face View

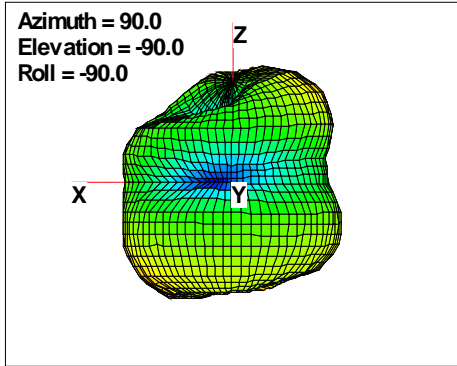


Total EIRP, Back Face View

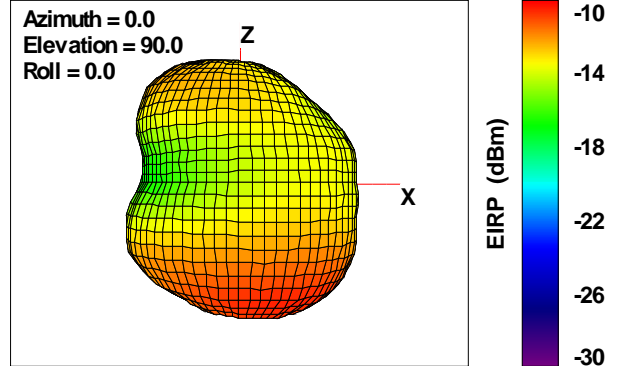


WAN Free-Space Total EIRP, 915MHz

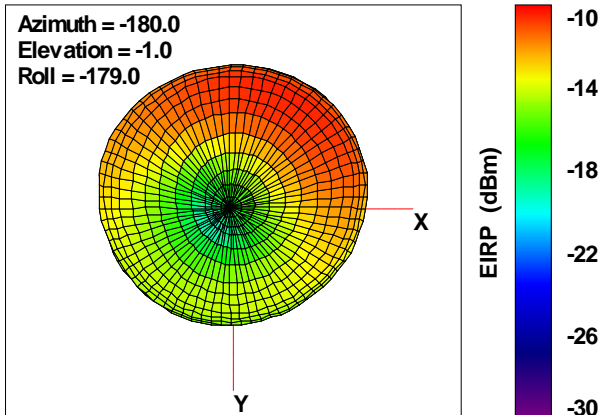
Total ERP, Right Side View



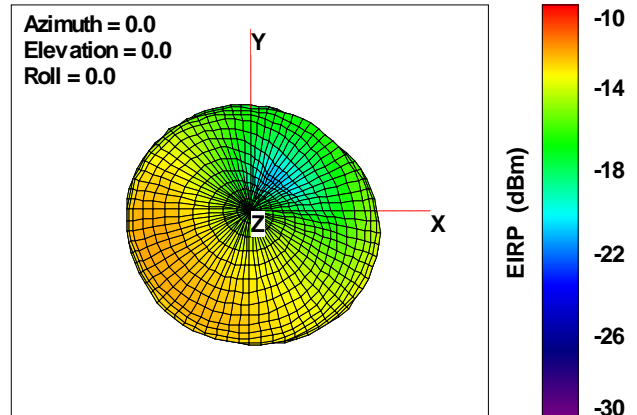
Total ERP, Left Side View



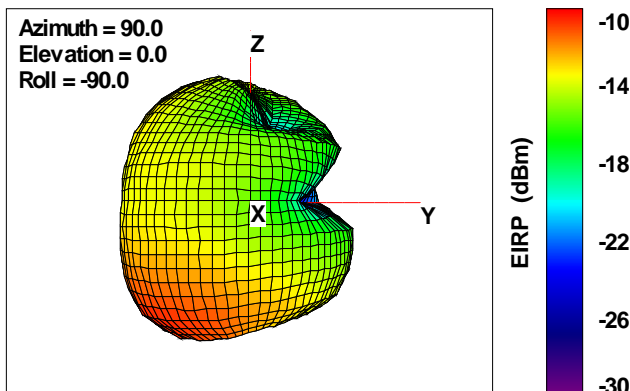
Total ERP, Bottom View



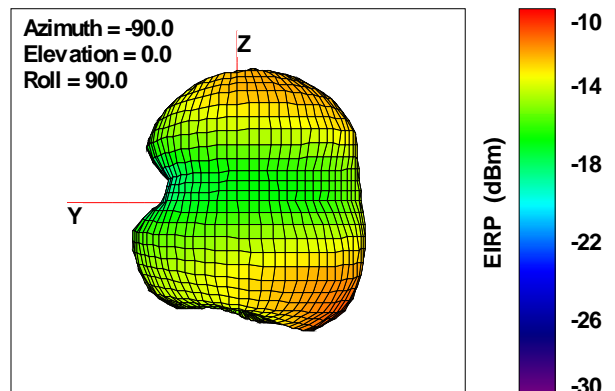
Total ERP, Top View



Total ERP, Front Face View

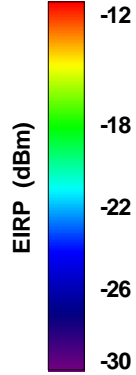
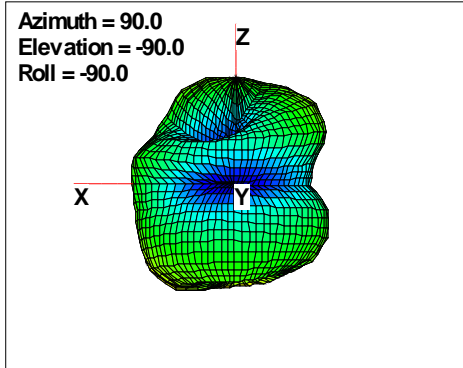


Total ERP, Back Face View

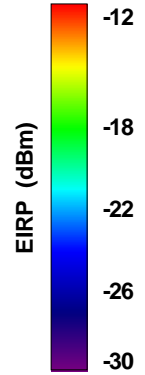
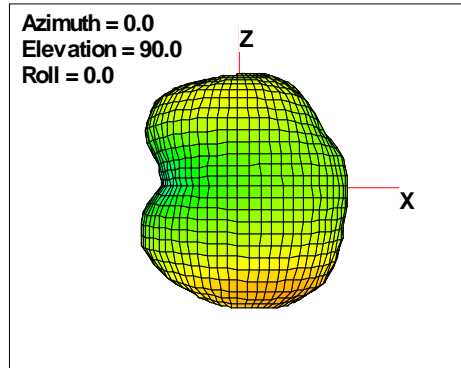


WAN Free-Space Total EIRP, 960MHz

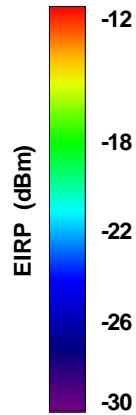
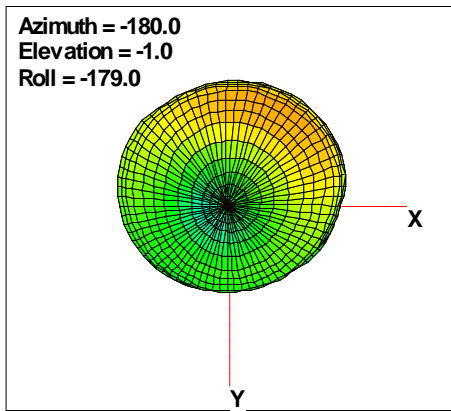
Total EIRP, Right Side View



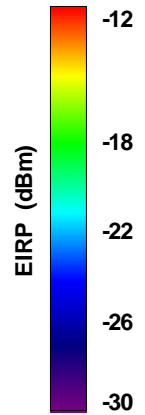
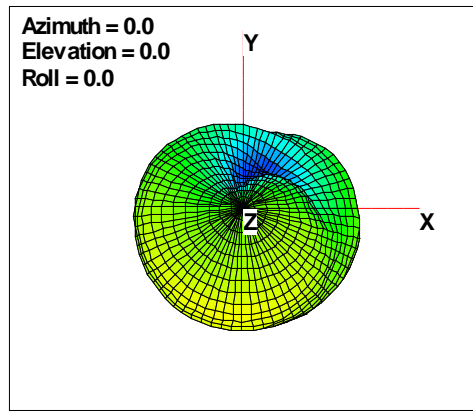
Total EIRP, Left Side View



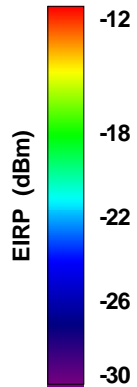
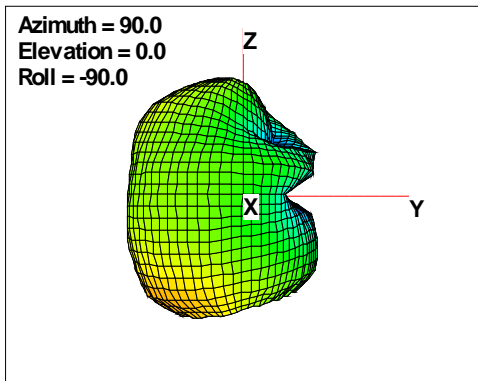
Total EIRP, Bottom View



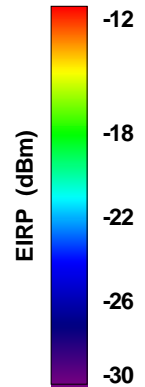
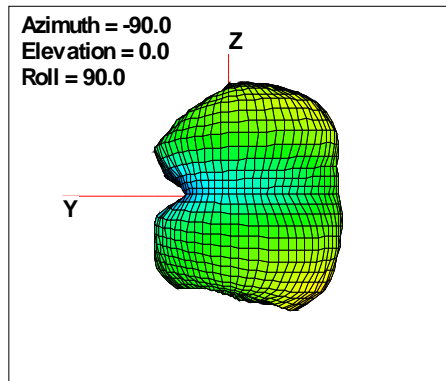
Total EIRP, Top View



Total EIRP, Front Face View

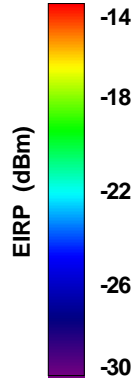
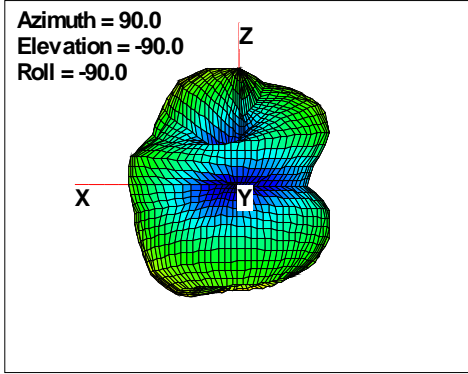


Total EIRP, Back Face View

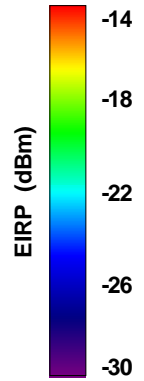
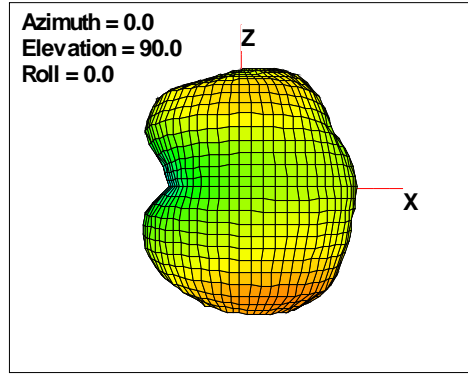


WAN Free-Space Total EIRP, 980MHz

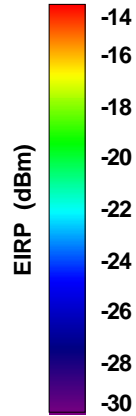
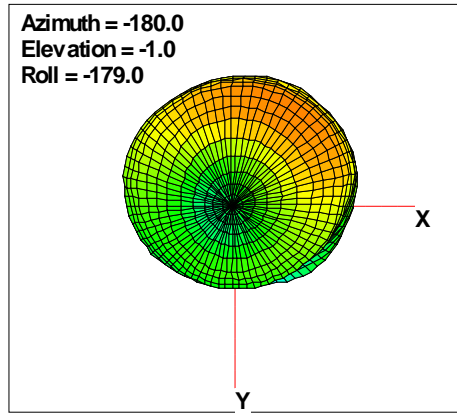
Total EIRP, Right Side View



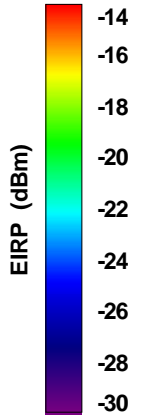
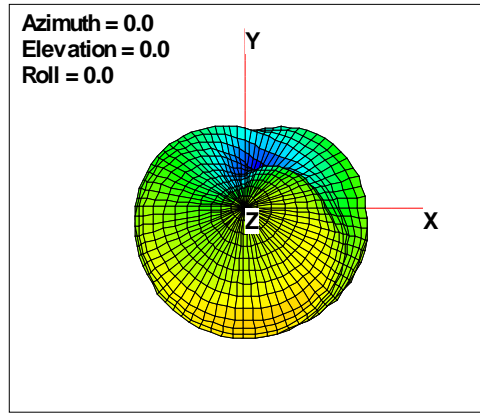
Total EIRP, Left Side View



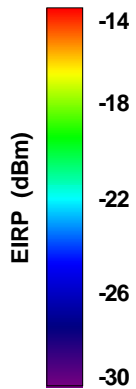
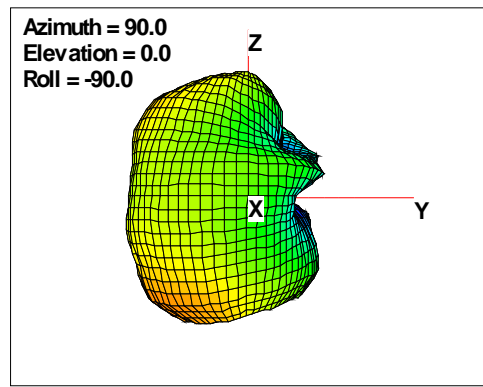
Total EIRP, Bottom View



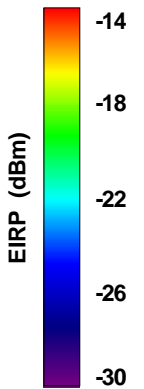
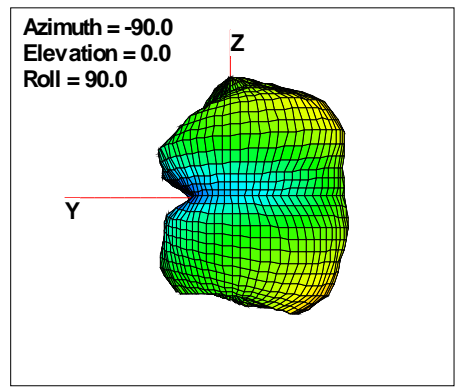
Total EIRP, Top View



Total EIRP, Front Face View

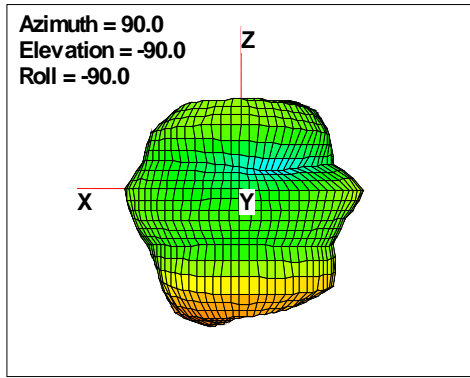


Total EIRP, Back Face View

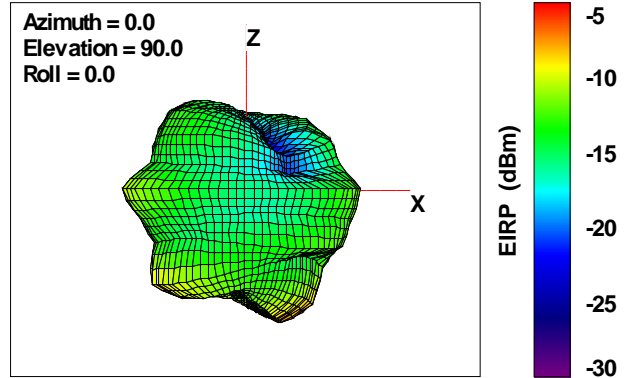


WAN Free-Space Total EIRP, 1574MHz

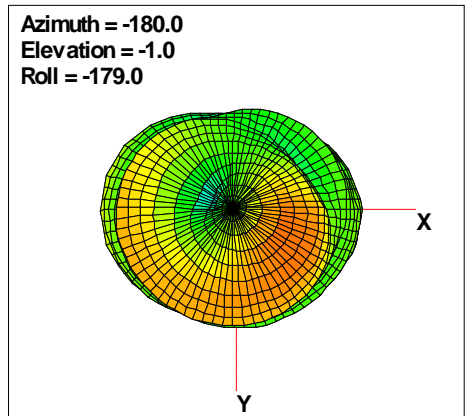
Total EIRP, Right Side View



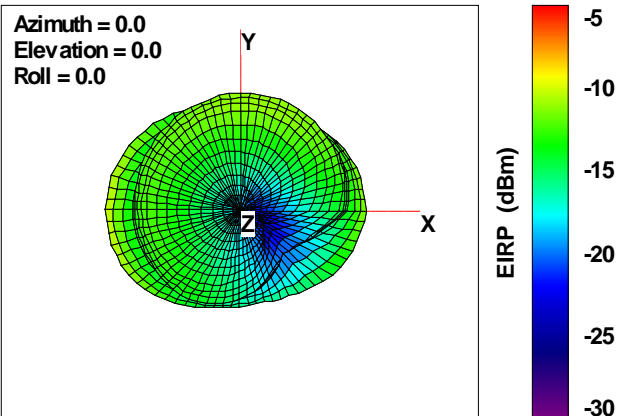
Total EIRP, Left Side View



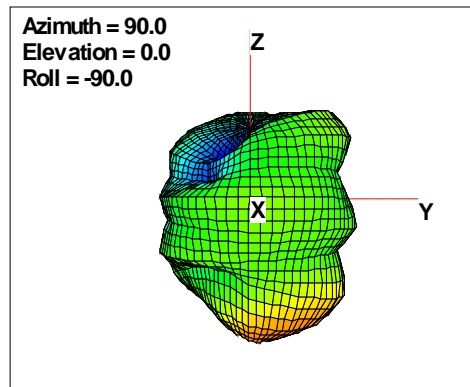
Total EIRP, Bottom View



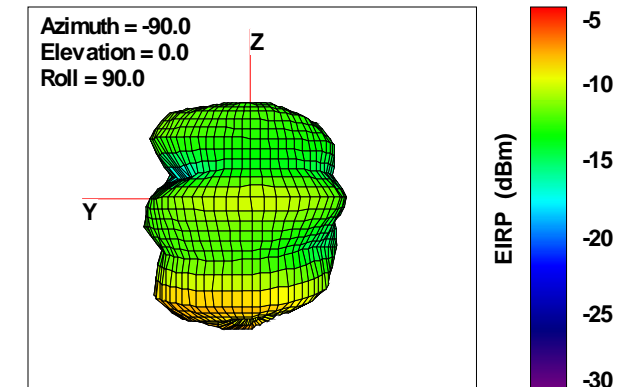
Total EIRP, Top View



Total EIRP, Front Face View

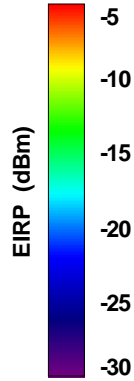
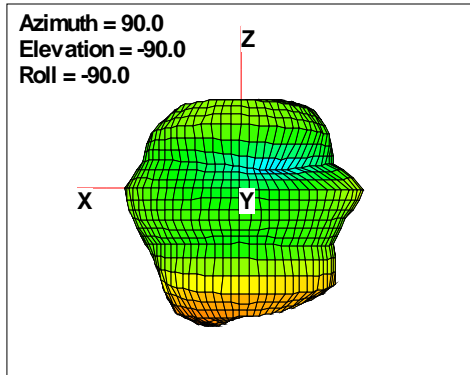


Total EIRP, Back Face View

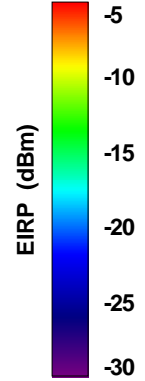
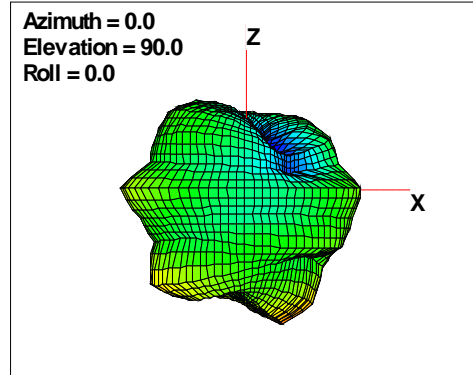


WAN Free-Space Total EIRP, 1575MHz

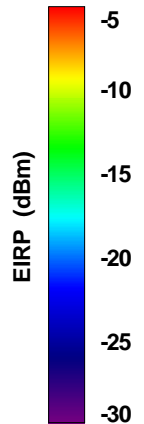
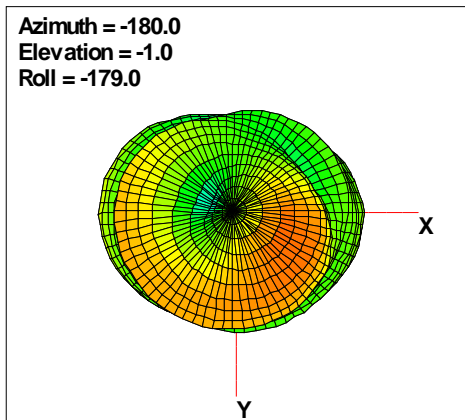
Total EIRP, Right Side View



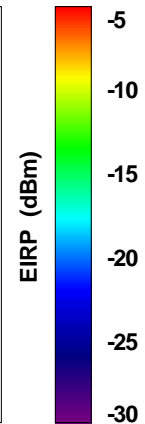
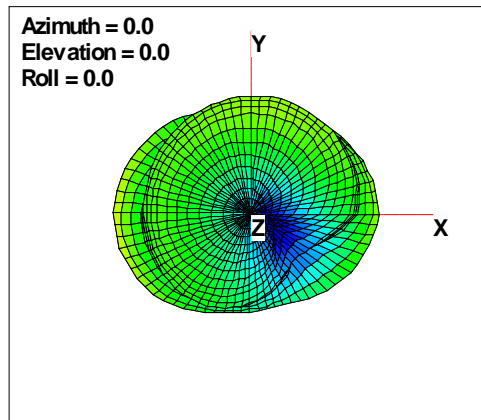
Total EIRP, Left Side View



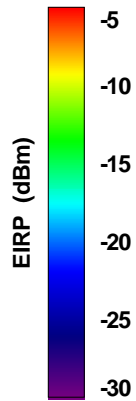
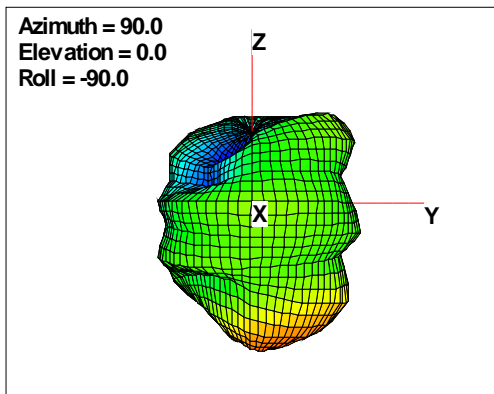
Total EIRP, Bottom View



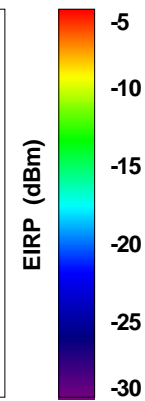
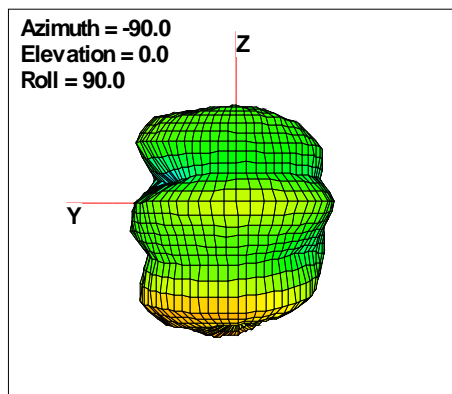
Total EIRP, Top View



Total EIRP, Front Face View

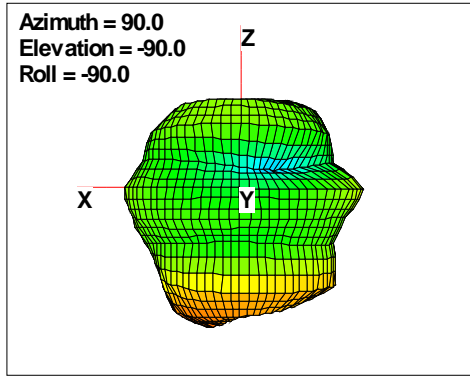


Total EIRP, Back Face View

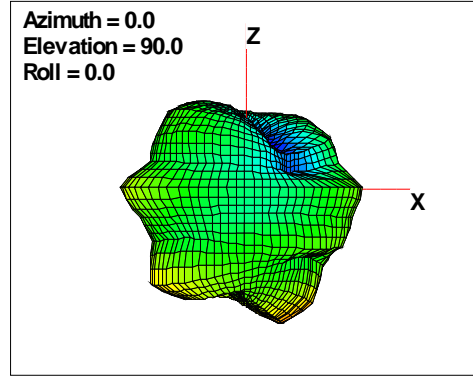


WAN Free-Space Total EIRP, 1576MHz

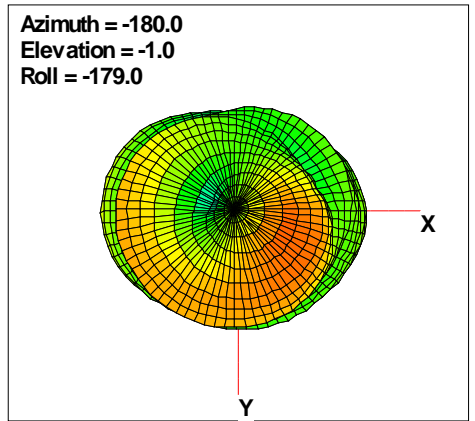
Total EIRP, Right Side View



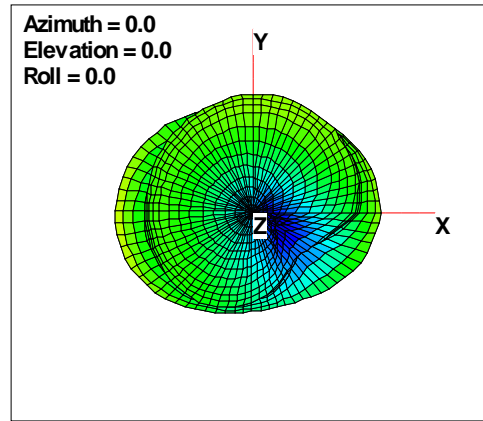
Total EIRP, Left Side View



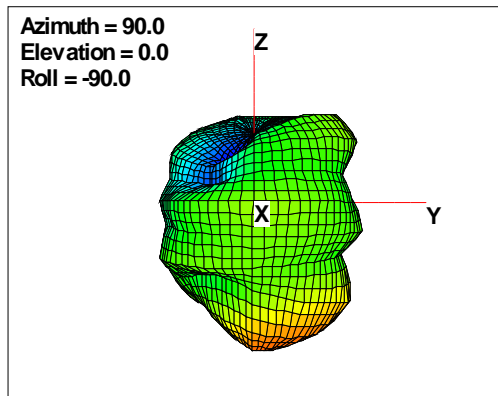
Total EIRP, Bottom View



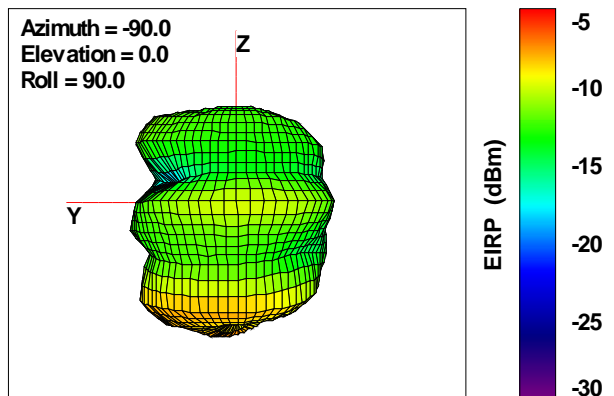
Total EIRP, Top View



Total EIRP, Front Face View

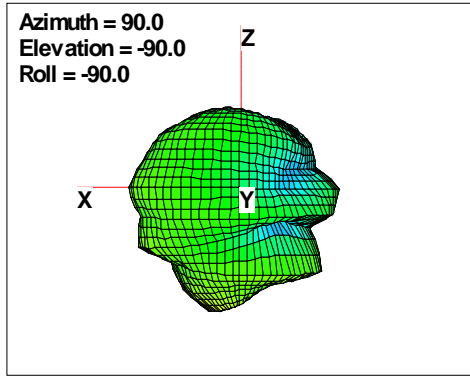


Total EIRP, Back Face View

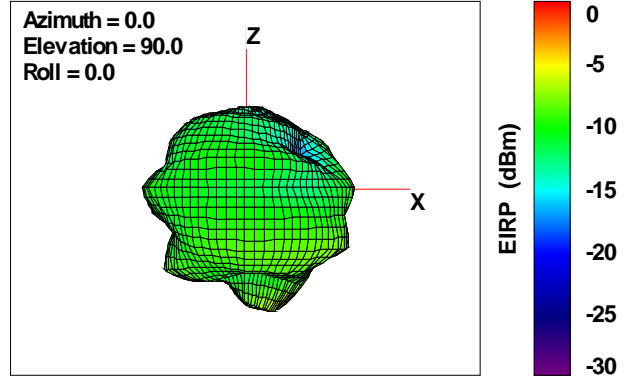


WAN Free-Space Total EIRP, 1695MHz

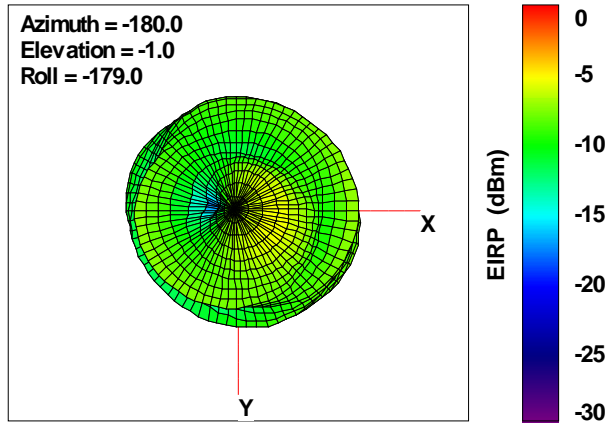
Total EIRP, Right Side View



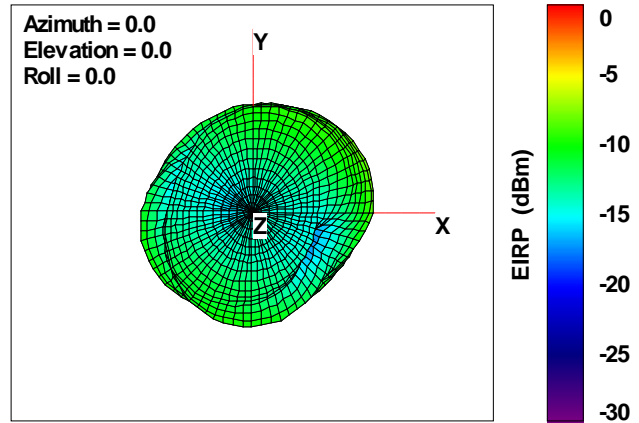
Total EIRP, Left Side View



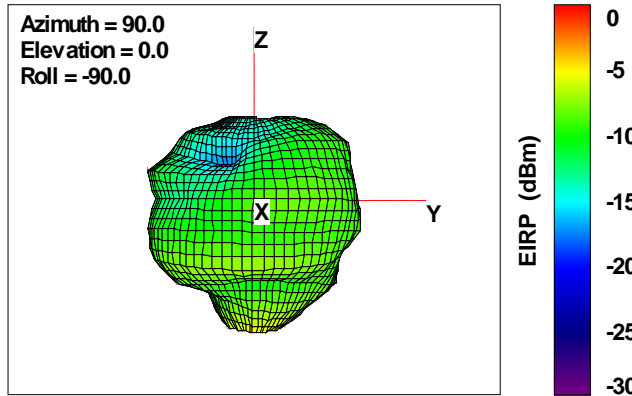
Total EIRP, Bottom View



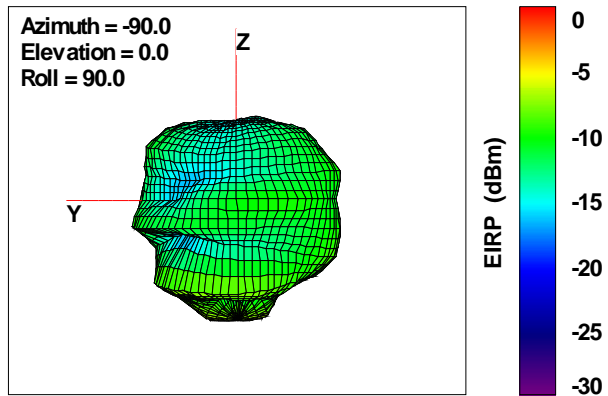
Total EIRP, Top View



Total EIRP, Front Face View

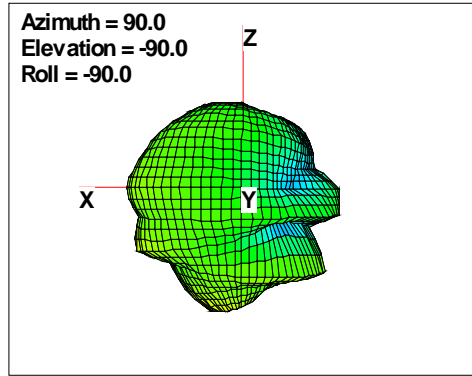


Total EIRP, Back Face View

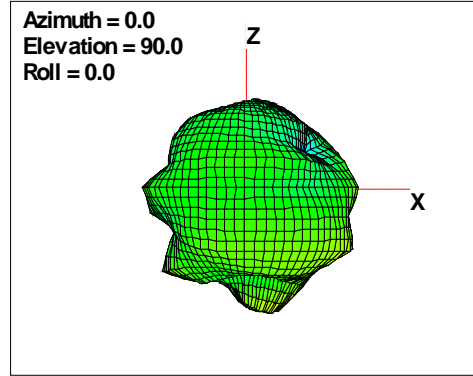


WAN Free-Space Total EIRP, 1710MHz

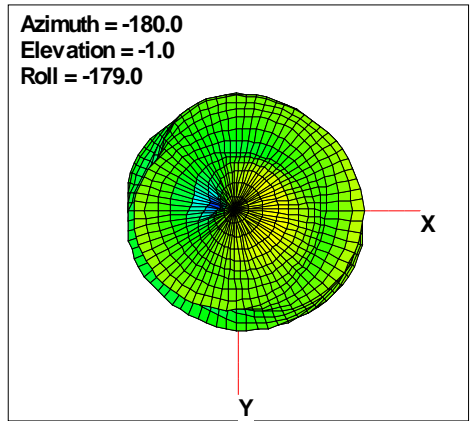
Total EIRP, Right Side View



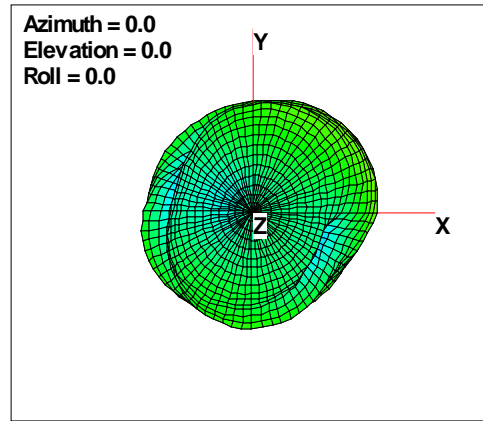
Total EIRP, Left Side View



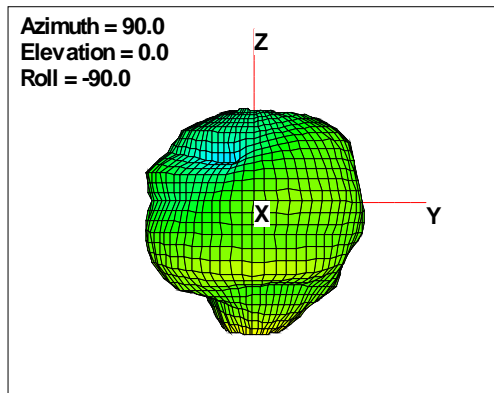
Total EIRP, Bottom View



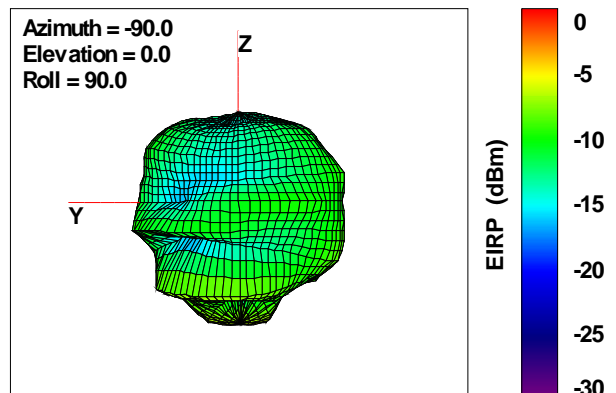
Total EIRP, Top View



Total EIRP, Front Face View

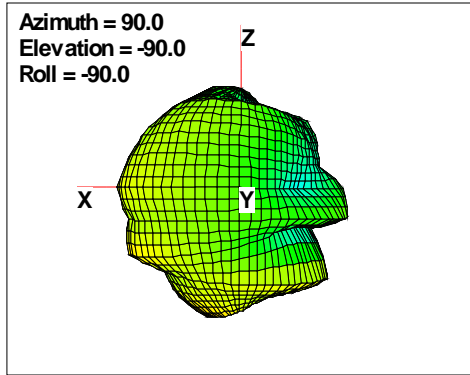


Total EIRP, Back Face View

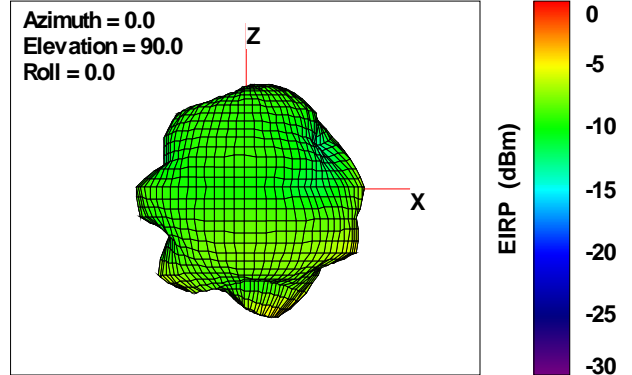


WAN Free-Space Total EIRP,1750 MHz

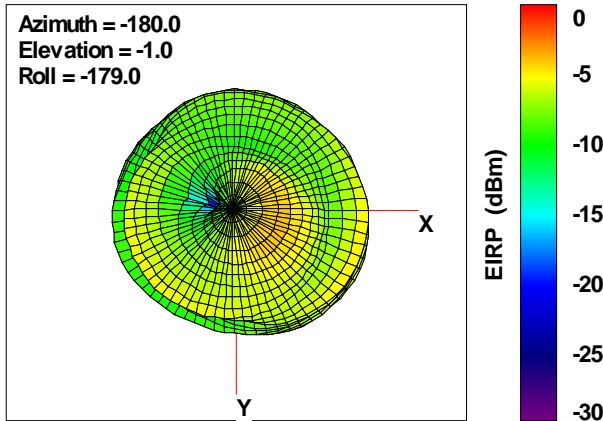
Total EIRP, Right Side View



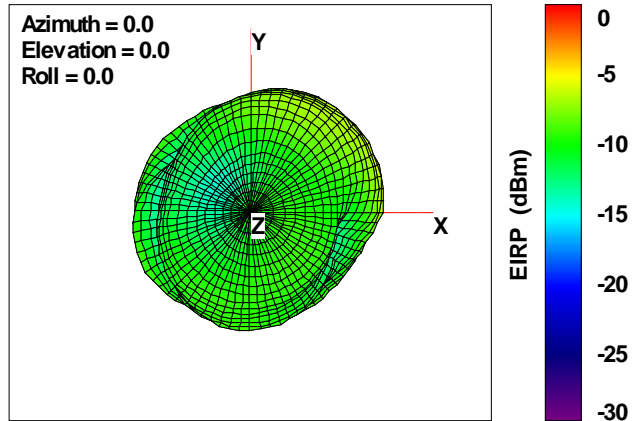
Total EIRP, Left Side View



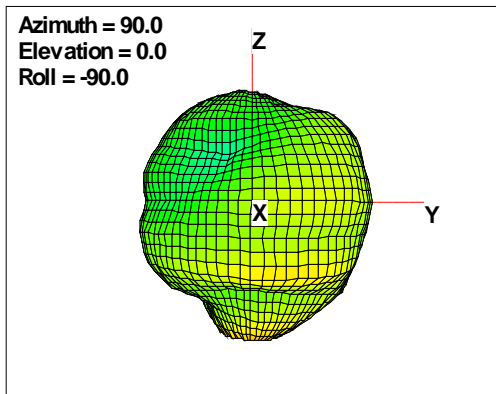
Total EIRP, Bottom View



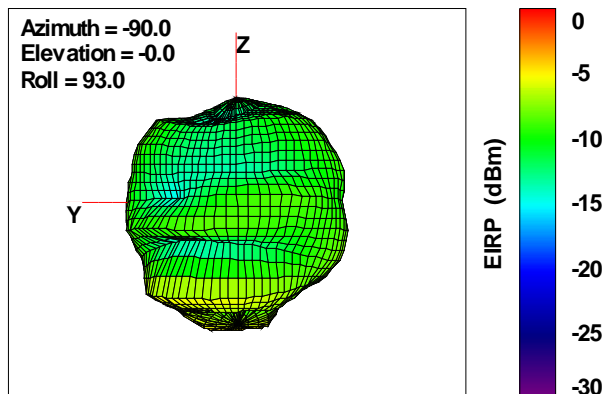
Total EIRP, Top View



Total EIRP, Front Face View

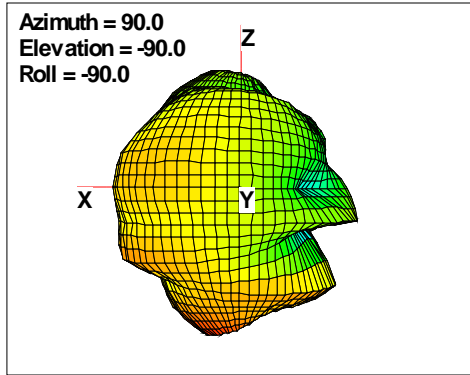


Total EIRP, Back Face View

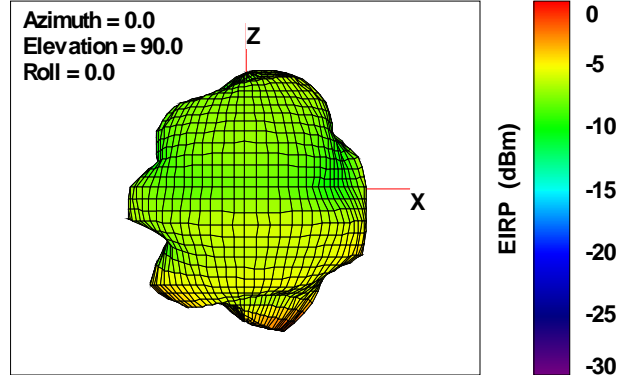


WAN Free-Space Total EIRP, 1800MHz

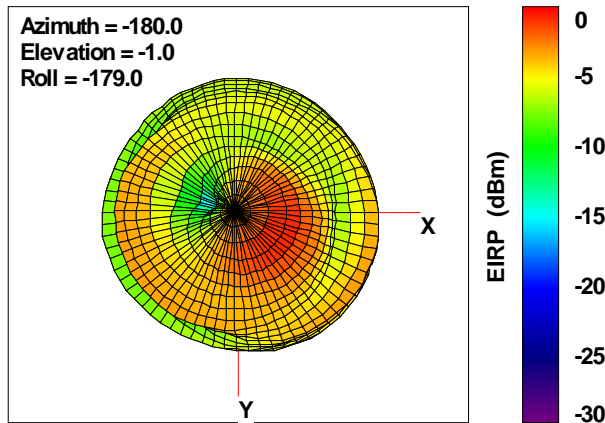
Total EIRP, Right Side View



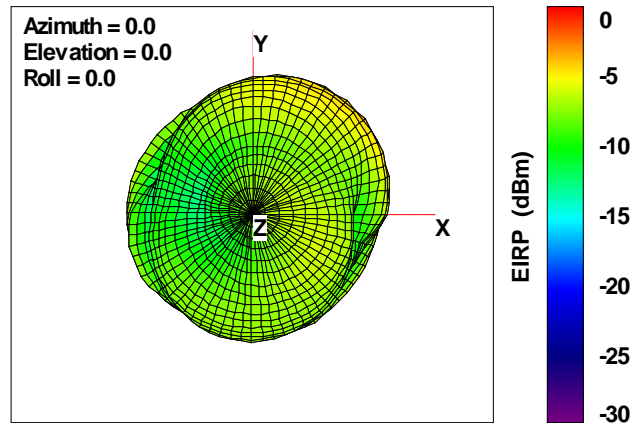
Total EIRP, Left Side View



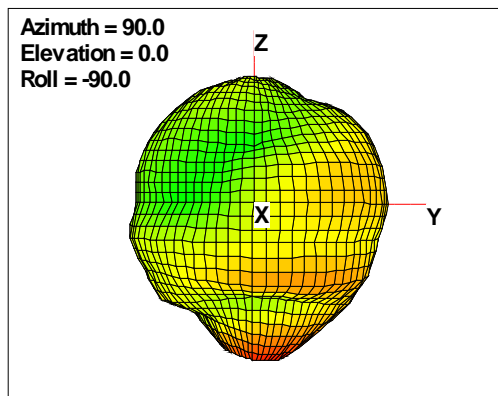
Total EIRP, Bottom View



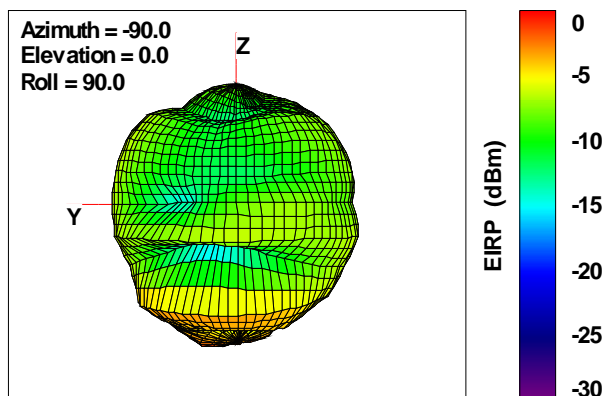
Total EIRP, Top View



Total EIRP, Front Face View

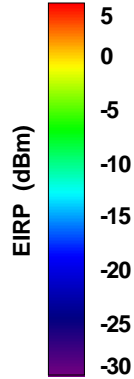
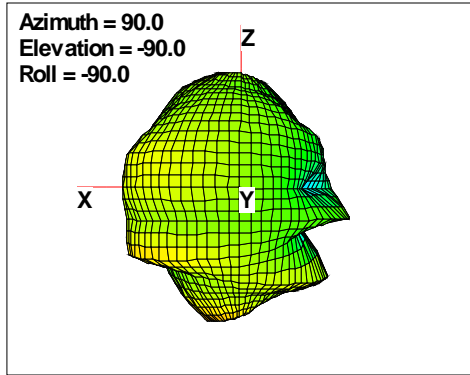


Total EIRP, Back Face View

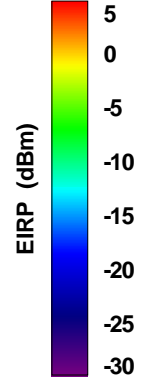
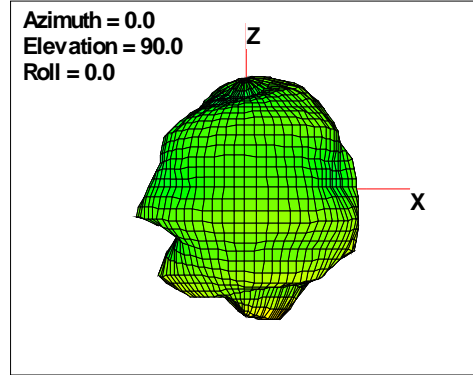


WAN Free-Space Total EIRP, 1850MHz

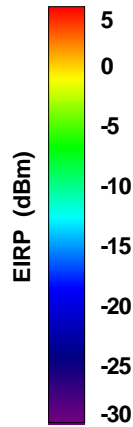
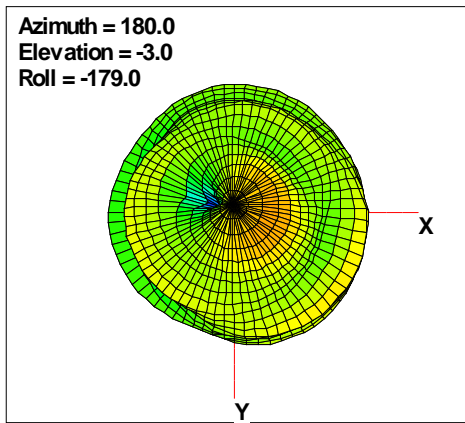
Total EIRP, Right Side View



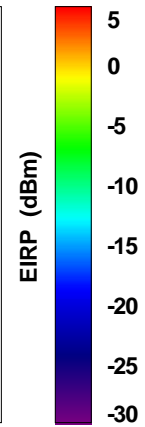
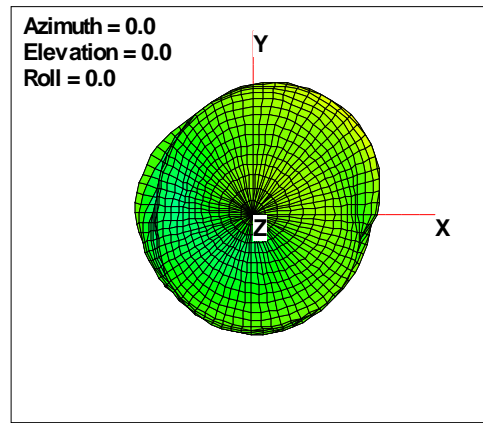
Total EIRP, Left Side View



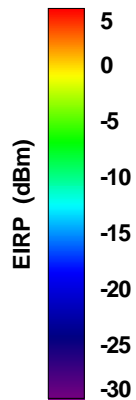
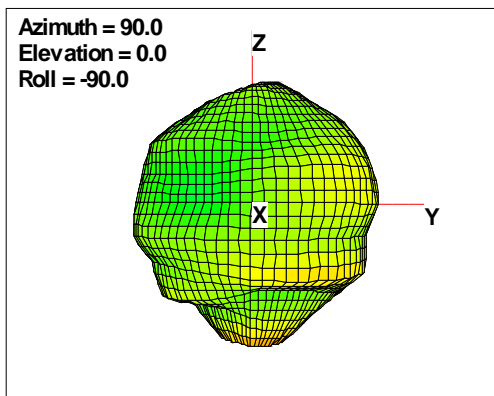
Total EIRP, Bottom View



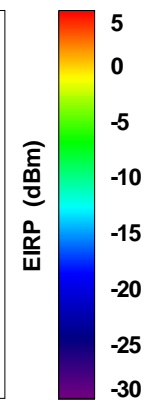
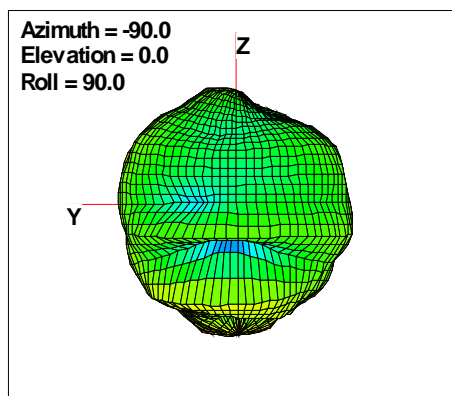
Total EIRP, Top View



Total EIRP, Front Face View

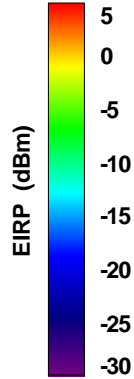
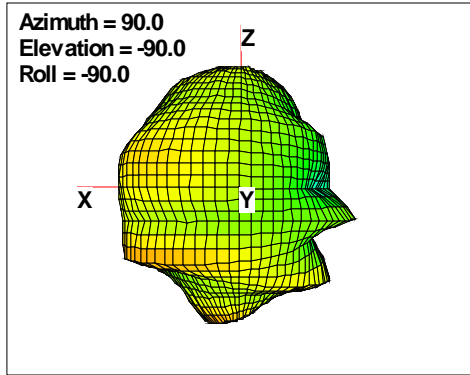


Total EIRP, Back Face View

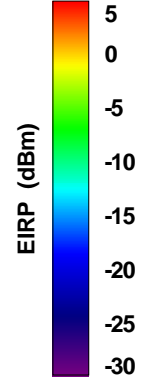
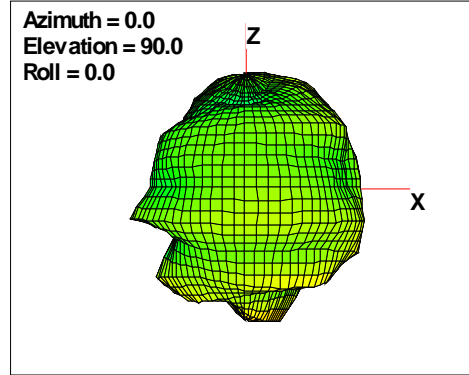


WAN Free-Space Total EIRP, 1880MHz

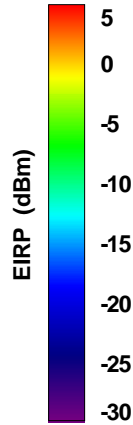
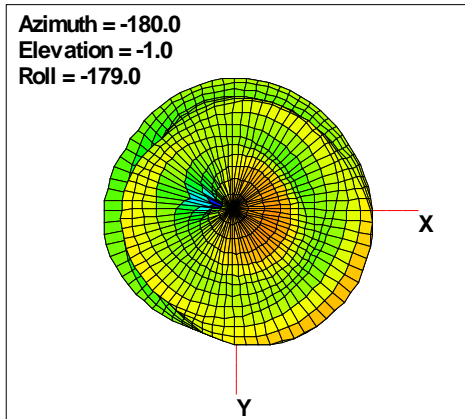
Total EIRP, Right Side View



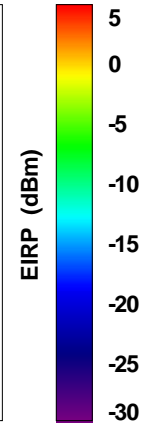
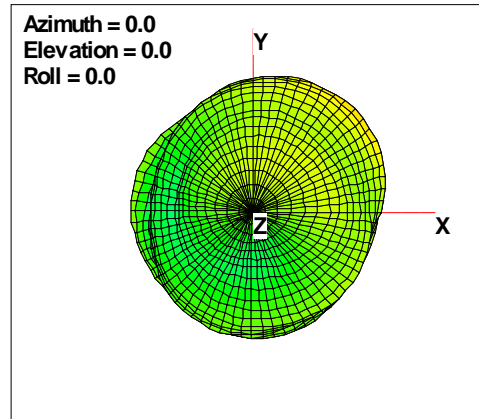
Total EIRP, Left Side View



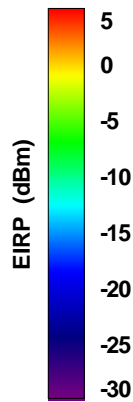
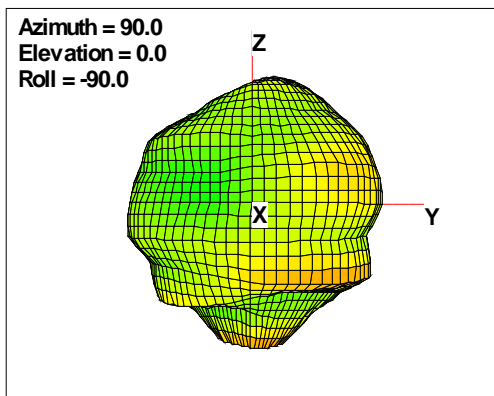
Total EIRP, Bottom View



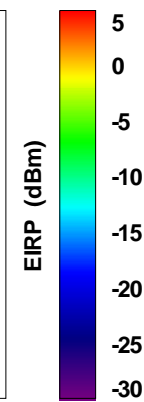
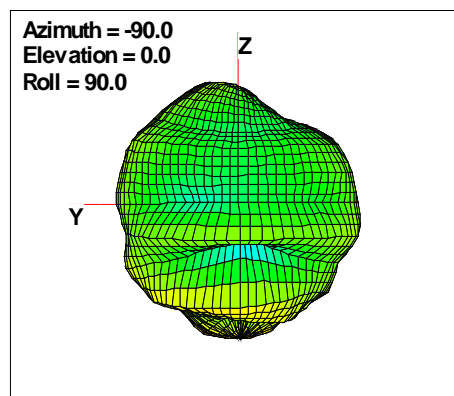
Total EIRP, Top View



Total EIRP, Front Face View

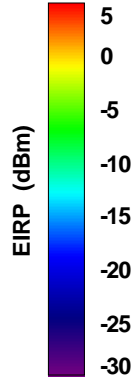
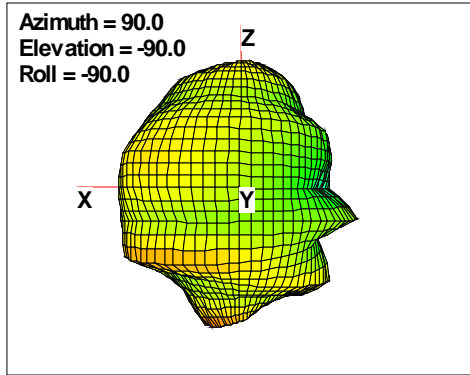


Total EIRP, Back Face View

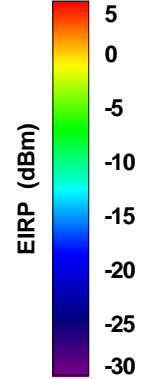
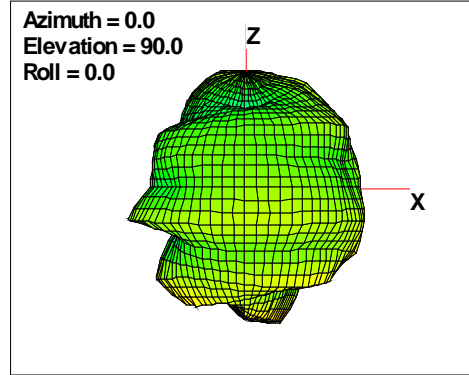


WAN Free-Space Total EIRP, 1900MHz

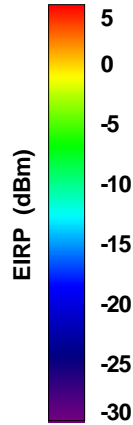
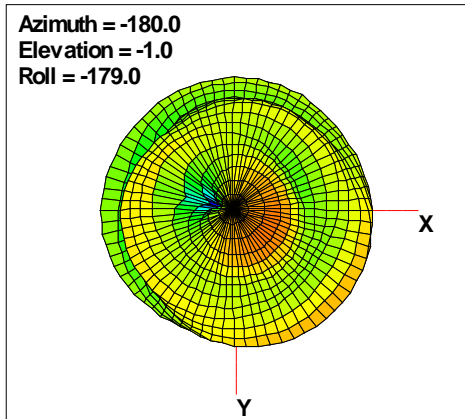
Total EIRP, Right Side View



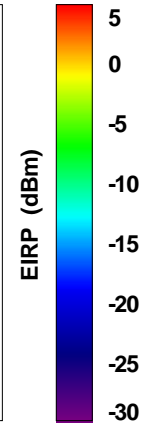
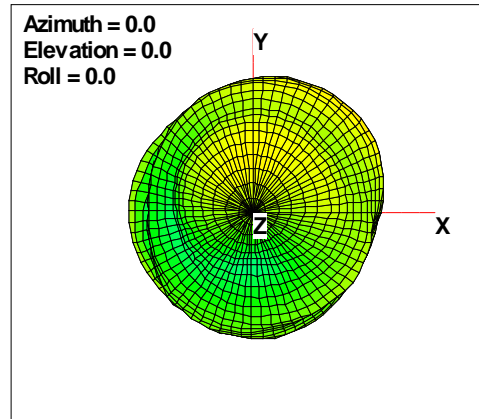
Total EIRP, Left Side View



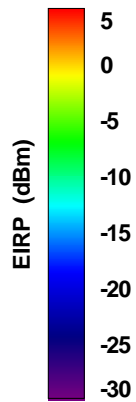
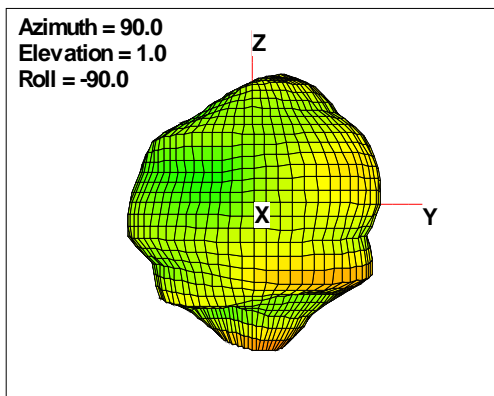
Total EIRP, Bottom View



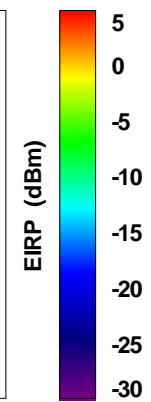
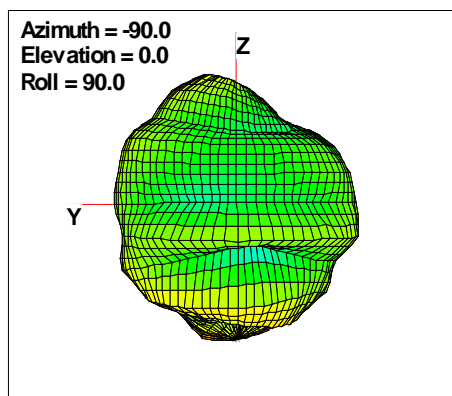
Total EIRP, Top View



Total EIRP, Front Face View

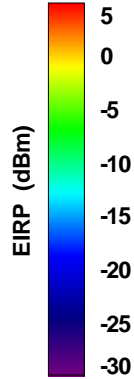
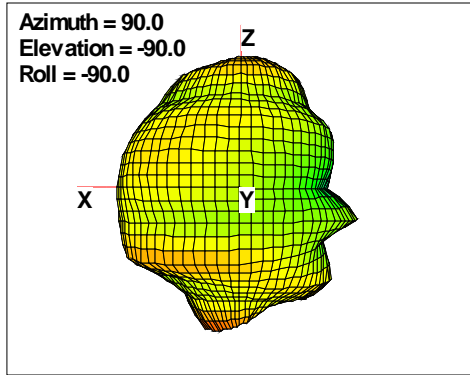


Total EIRP, Back Face View

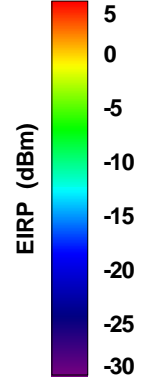
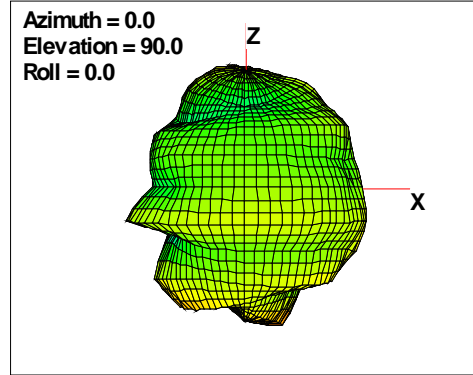


WAN Free-Space Total EIRP, 1920MHz

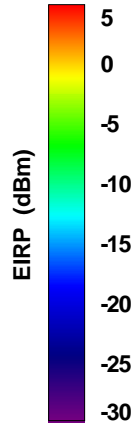
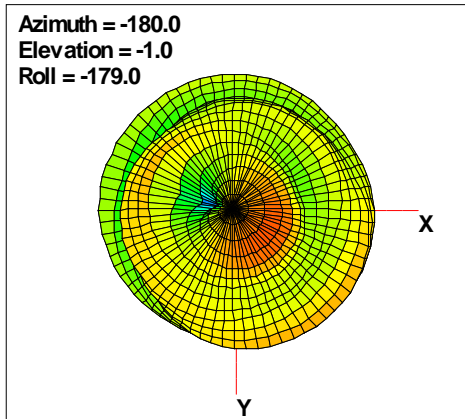
Total EIRP, Right Side View



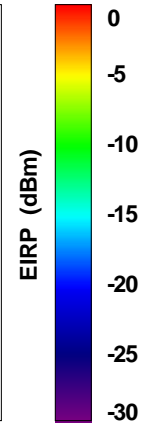
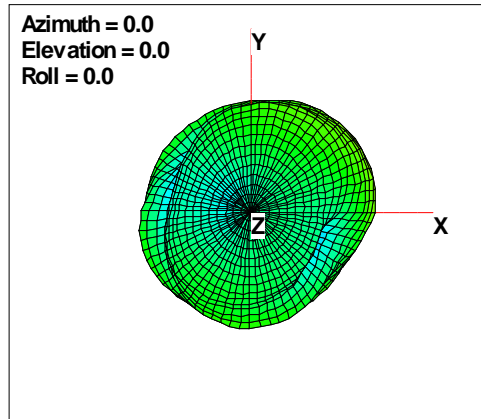
Total EIRP, Left Side View



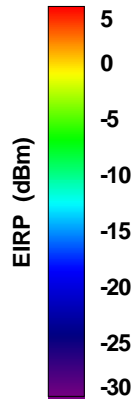
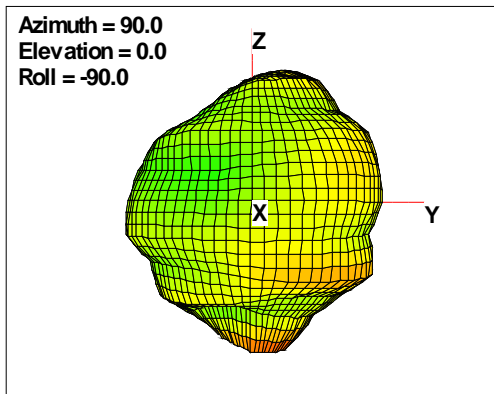
Total EIRP, Bottom View



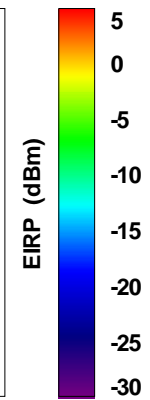
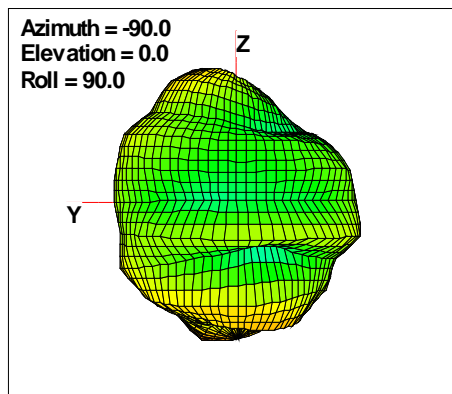
Total EIRP, Top View



Total EIRP, Front Face View

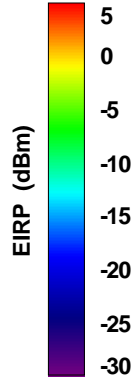
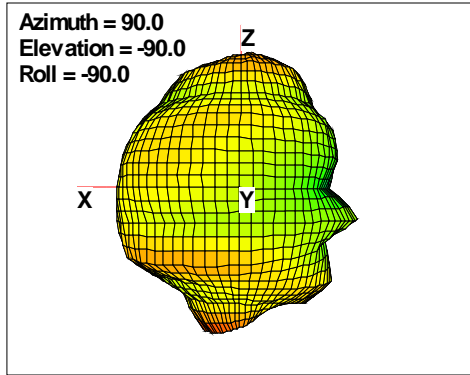


Total EIRP, Back Face View

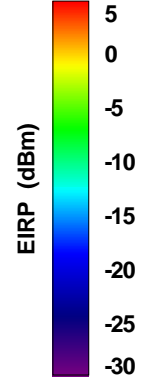
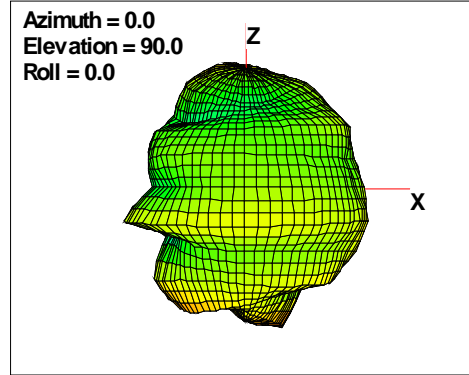


WAN Free-Space Total EIRP, 1930MHz

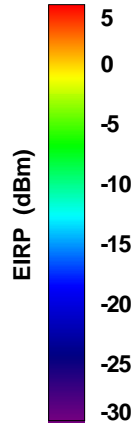
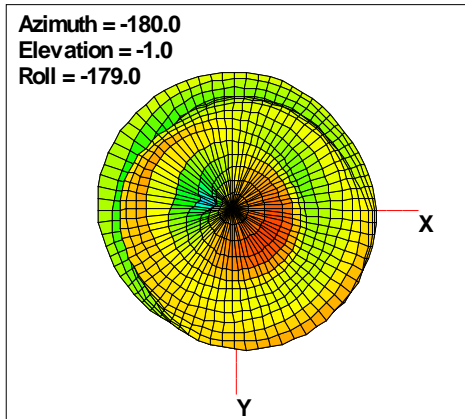
Total EIRP, Right Side View



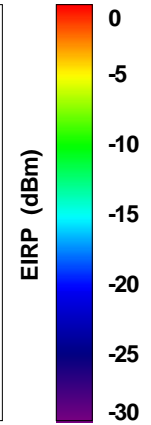
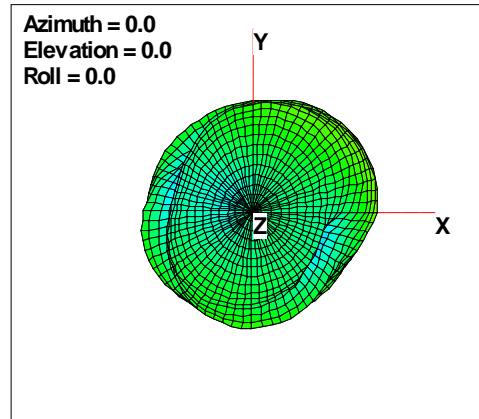
Total EIRP, Left Side View



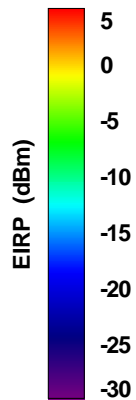
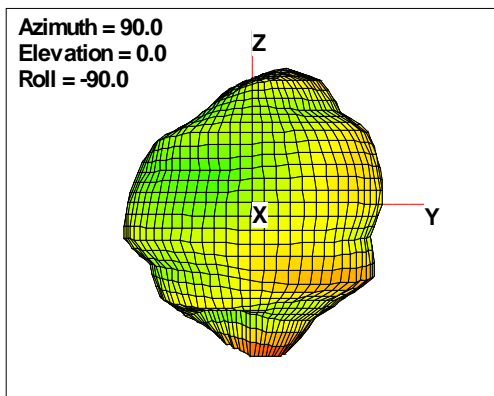
Total EIRP, Bottom View



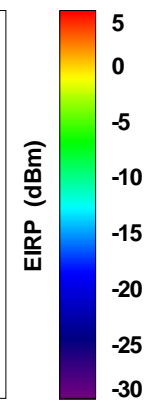
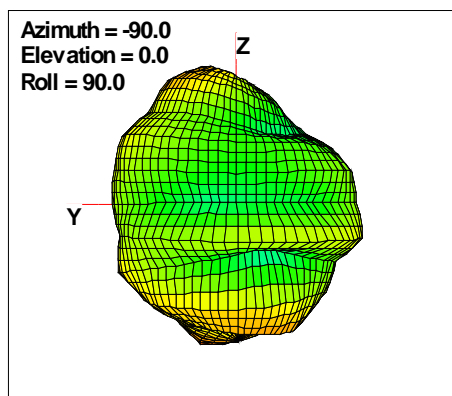
Total EIRP, Top View



Total EIRP, Front Face View

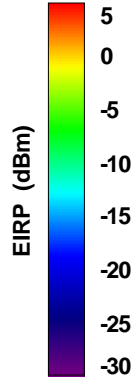
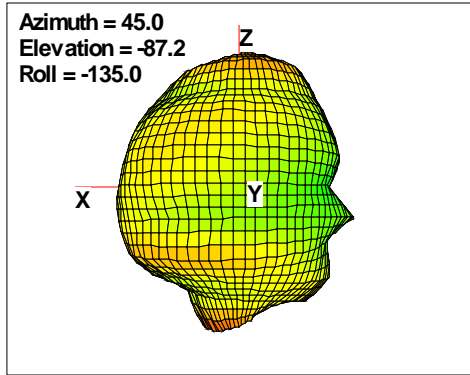


Total EIRP, Back Face View

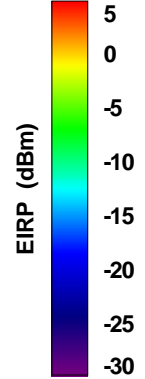
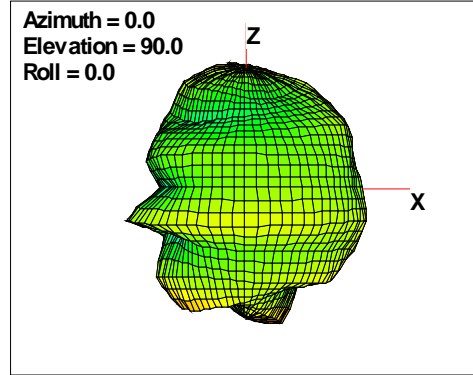


WAN Free-Space Total EIRP, 1960MHz

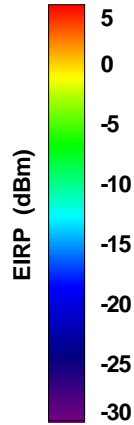
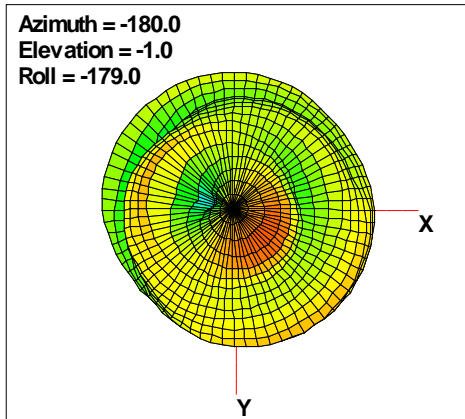
Total EIRP, Right Side View



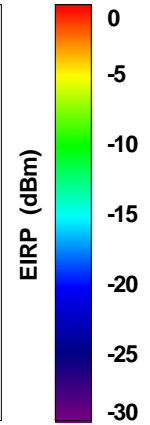
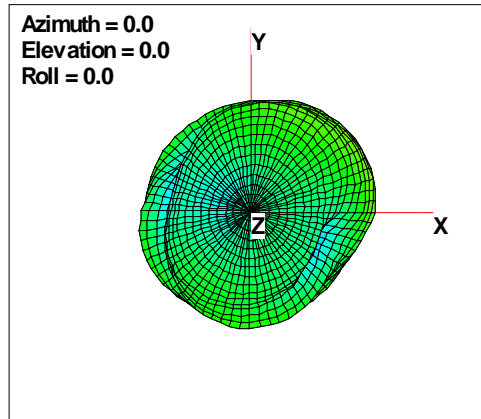
Total EIRP, Left Side View



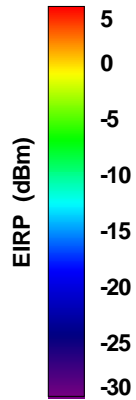
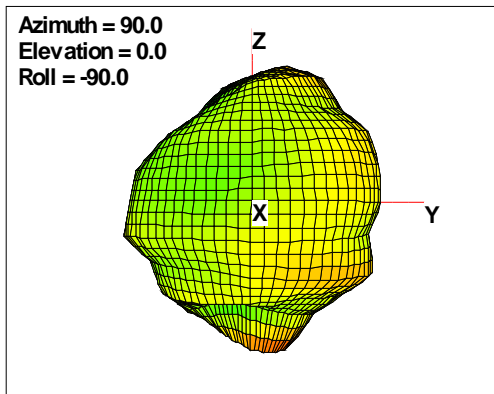
Total EIRP, Bottom View



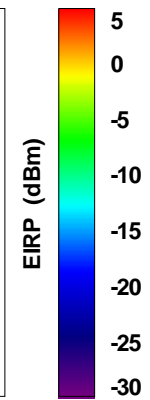
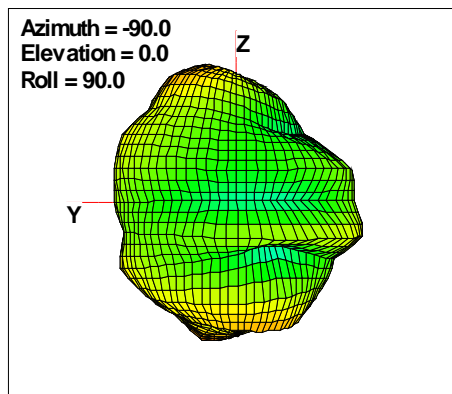
Total EIRP, Top View



Total EIRP, Front Face View

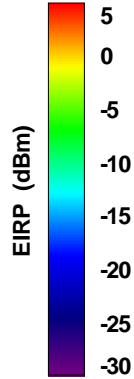
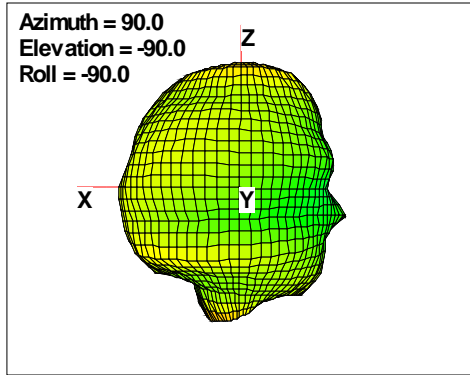


Total EIRP, Back Face View

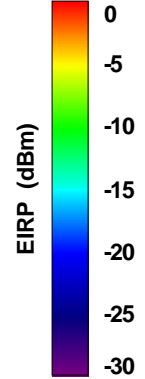
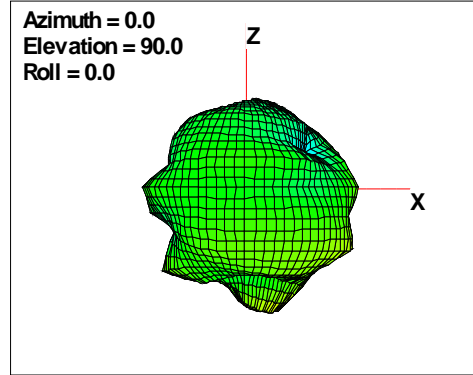


WAN Free-Space Total EIRP, 1990MHz

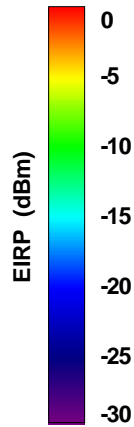
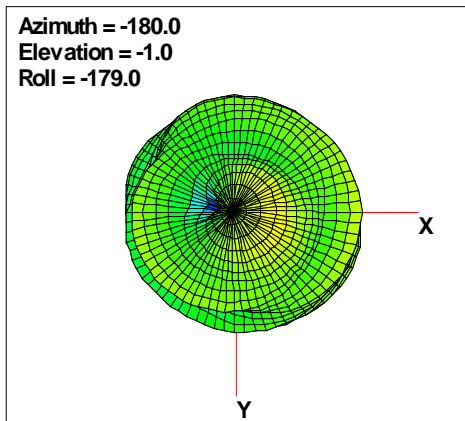
Total EIRP, Right Side View



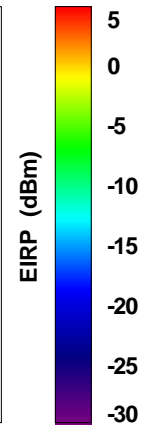
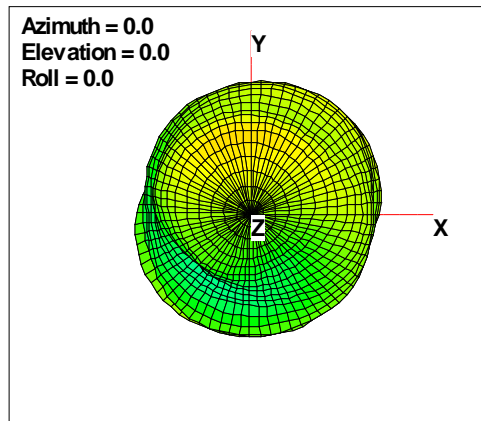
Total EIRP, Left Side View



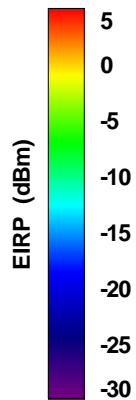
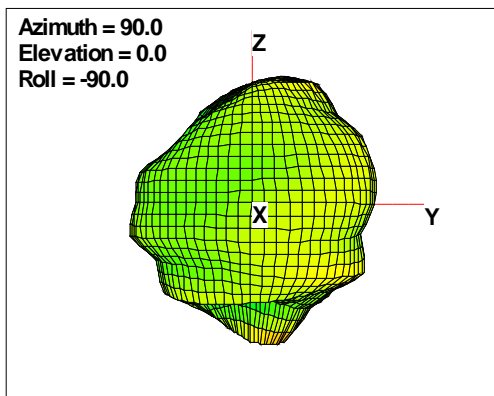
Total EIRP, Bottom View



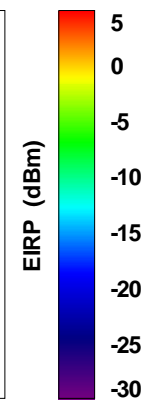
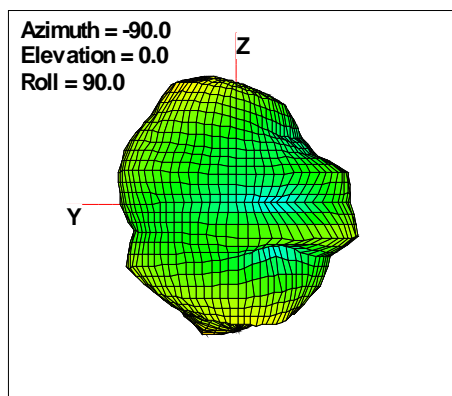
Total EIRP, Top View



Total EIRP, Front Face View

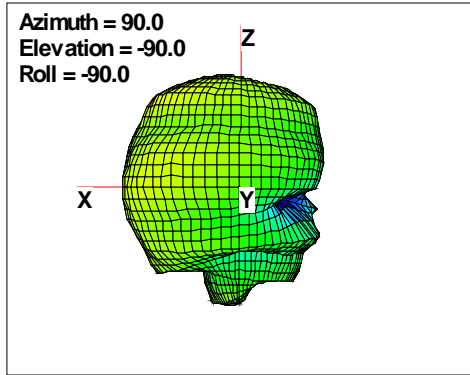


Total EIRP, Back Face View

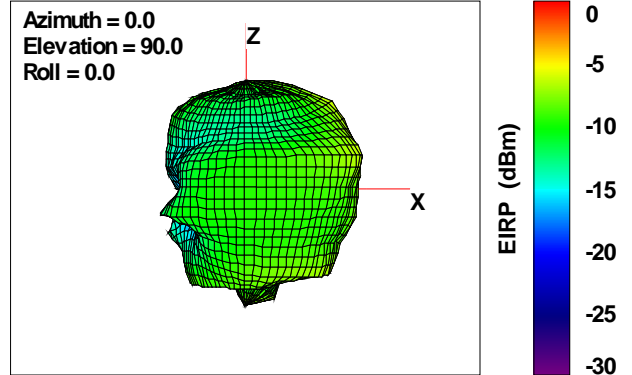


WAN Free-Space Total EIRP, 2110MHz

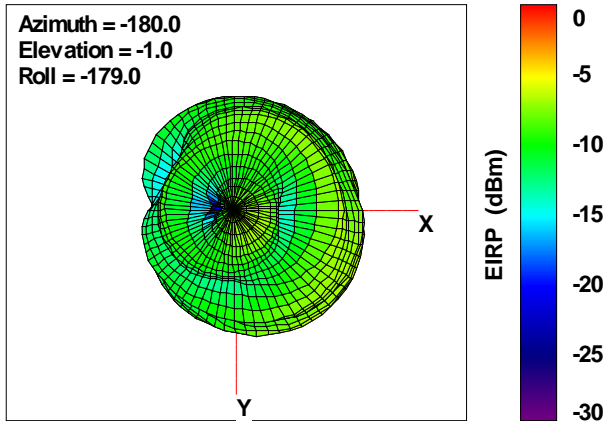
Total EIRP, Right Side View



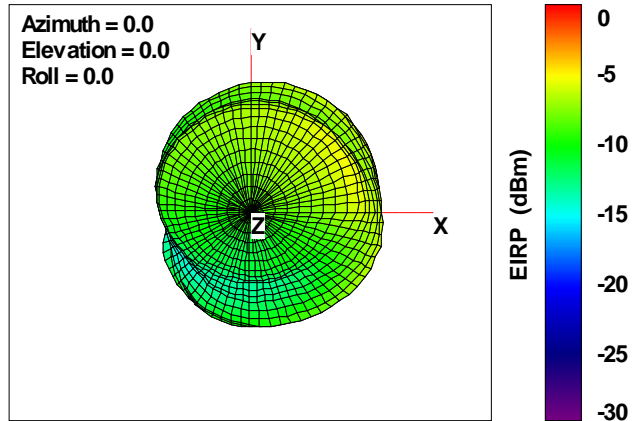
Total EIRP, Left Side View



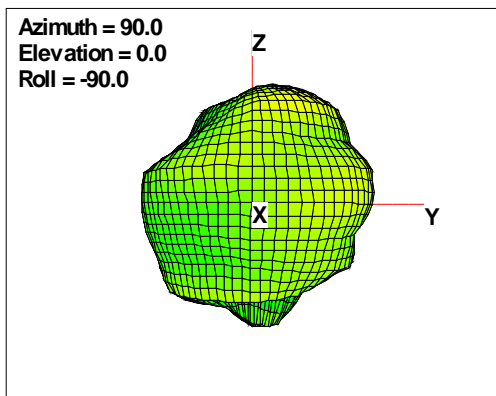
Total EIRP, Bottom View



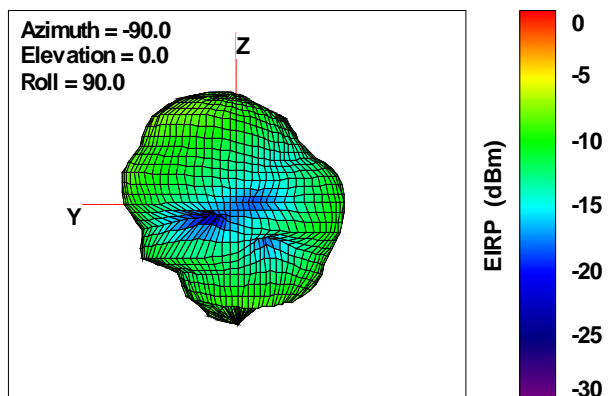
Total EIRP, Top View



Total EIRP, Front Face View

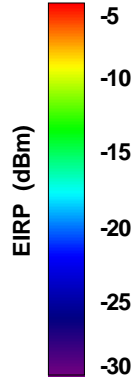
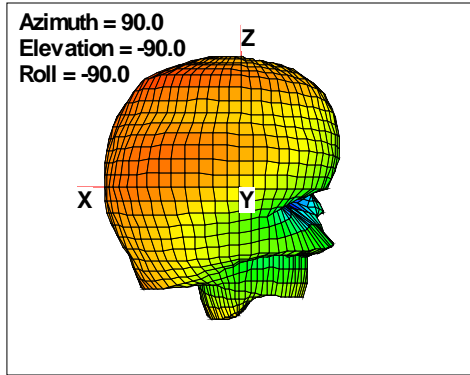


Total EIRP, Back Face View

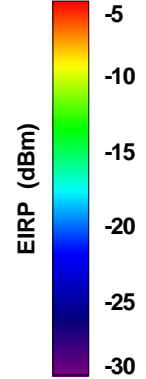
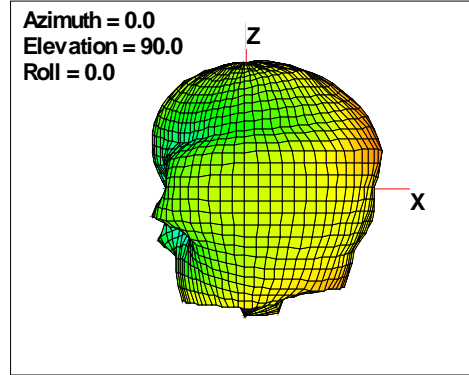


WAN Free-Space Total EIRP, 2160MHz

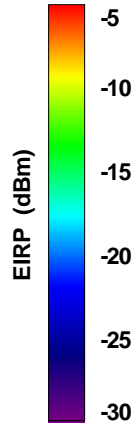
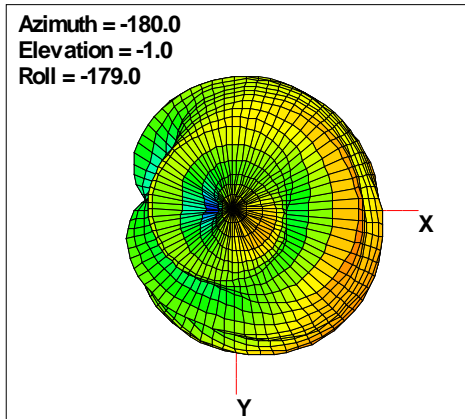
Total EIRP, Right Side View



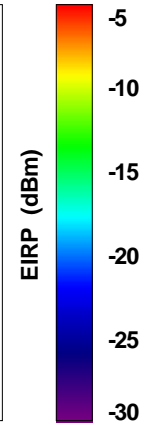
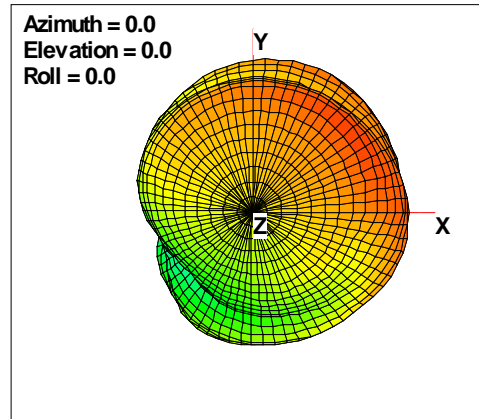
Total EIRP, Left Side View



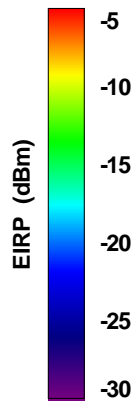
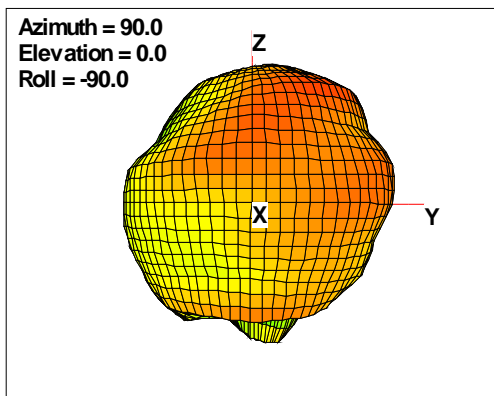
Total EIRP, Bottom View



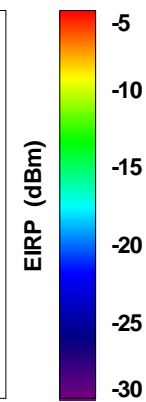
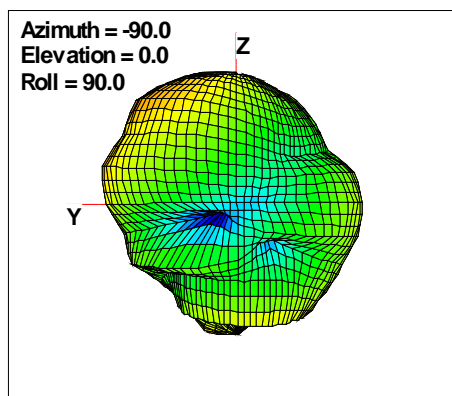
Total EIRP, Top View



Total EIRP, Front Face View

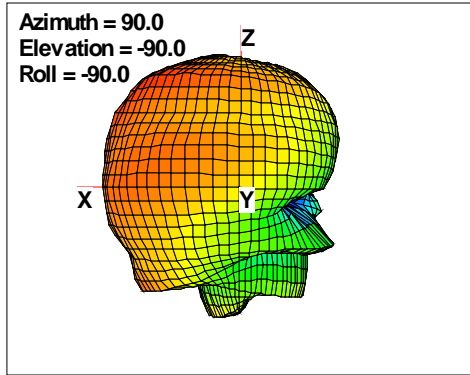


Total EIRP, Back Face View

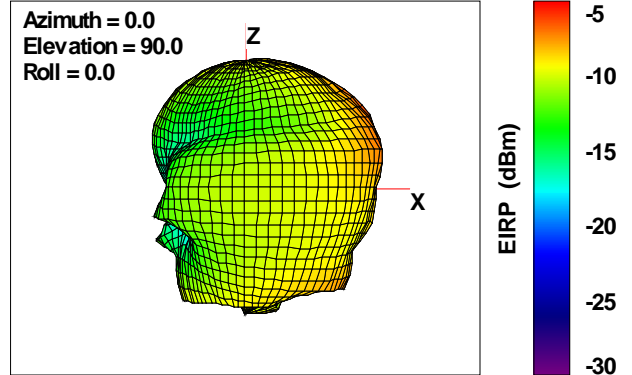


WAN Free-Space Total EIRP, 2170MHz

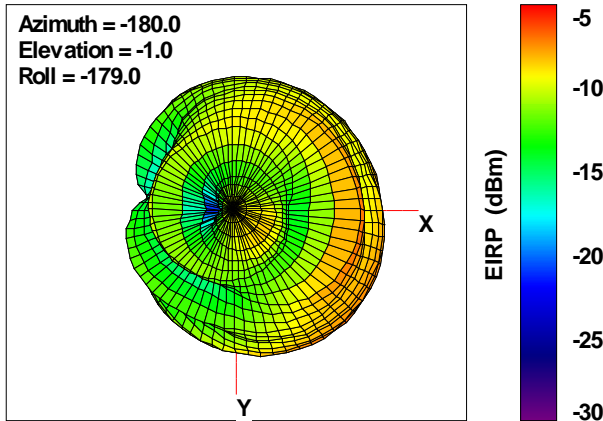
Total EIRP, Right Side View



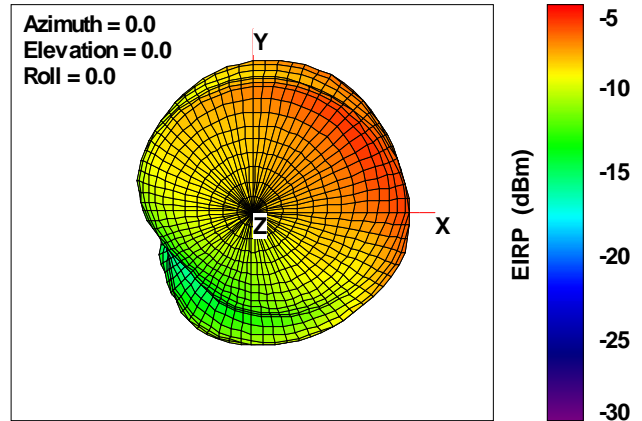
Total EIRP, Left Side View



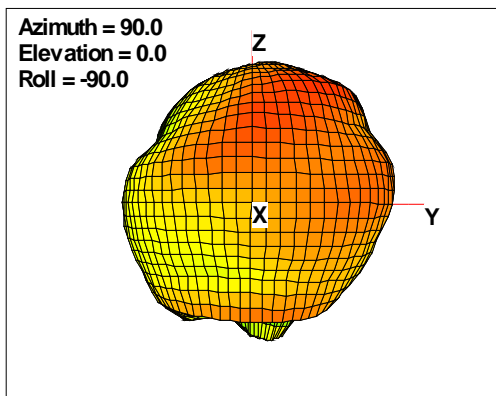
Total EIRP, Bottom View



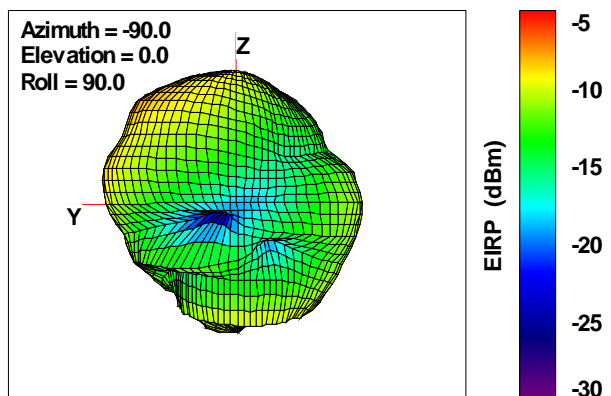
Total EIRP, Top View



Total EIRP, Front Face View

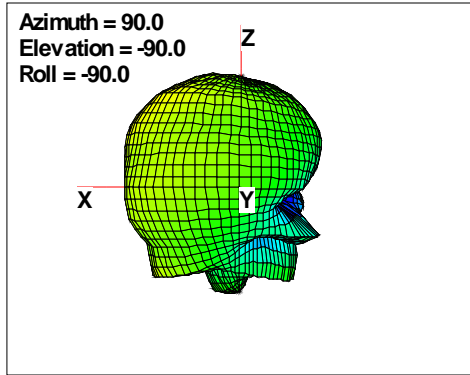


Total EIRP, Back Face View

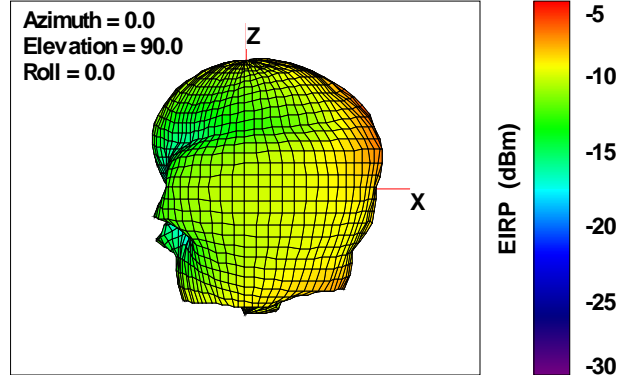


WAN Free-Space Total EIRP, 2190MHz

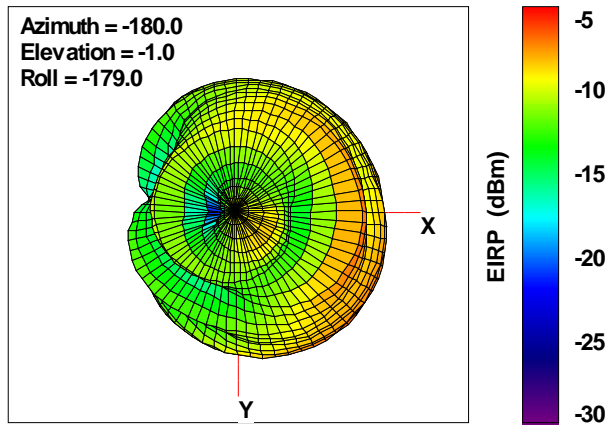
Total EIRP, Right Side View



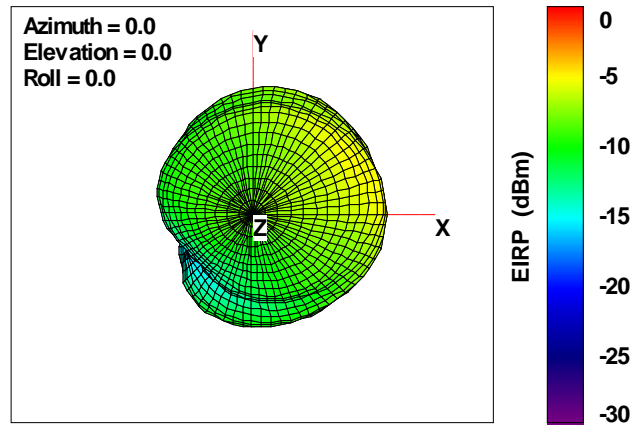
Total EIRP, Left Side View



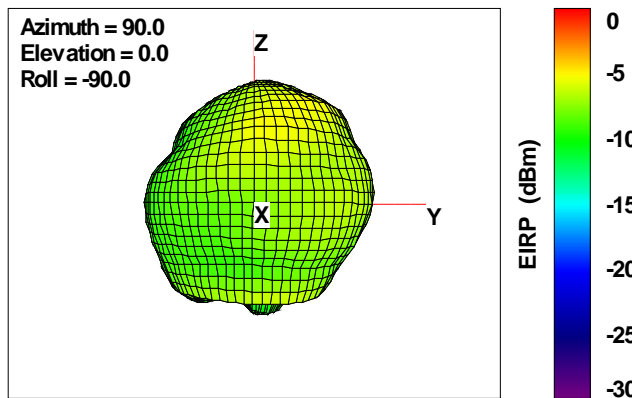
Total EIRP, Bottom View



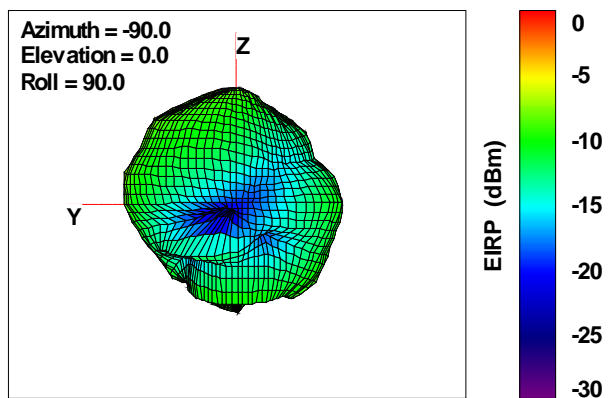
Total EIRP, Top View



Total EIRP, Front Face View

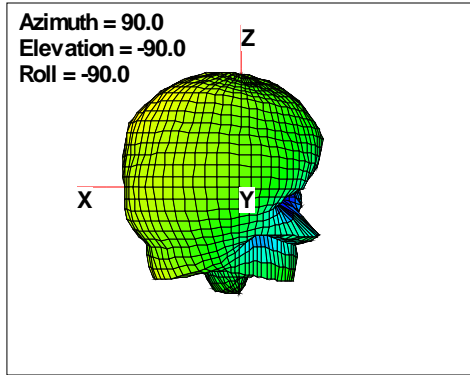


Total EIRP, Back Face View

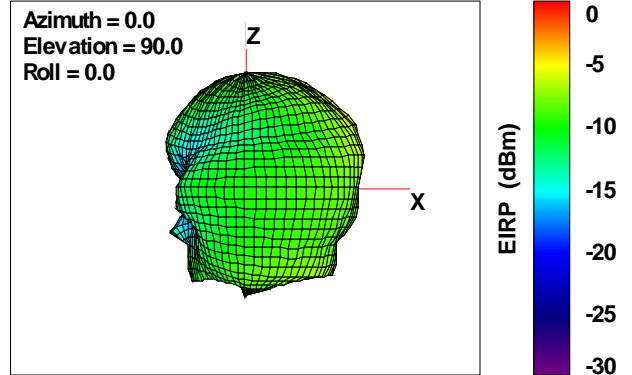


WAN Free-Space Total EIRP, 2200MHz

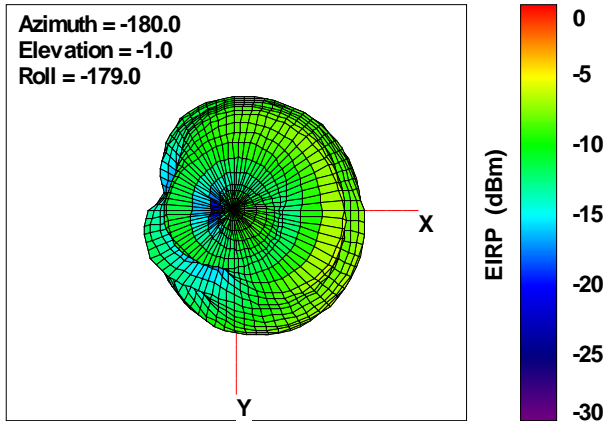
Total EIRP, Right Side View



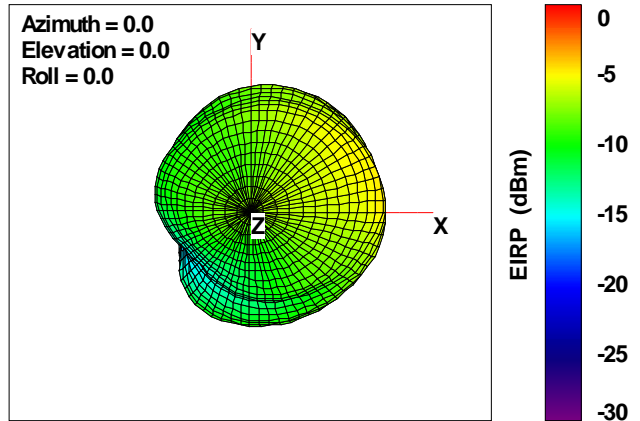
Total EIRP, Left Side View



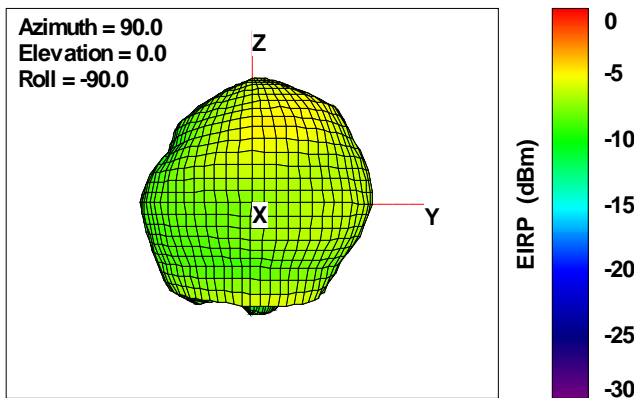
Total EIRP, Bottom View



Total EIRP, Top View



Total EIRP, Front Face View



Total EIRP, Back Face View

