

SoHo-X10/S10 IFA Antenna Datasheet

The SoHo-X10/S10 PCB Trace Inverted “F” Antenna (IFA) is an antenna structure fabricated onto the implant’s PCB. The device under test (DUT) was performed in Speag broad band solution to emulate tissue with a wall depth of 2mm. The antenna is designed and tuned for implantation. Data represented at 2440MHz, highest gain between 2400-2480MHz RF Spectrum.



Frequency	2440MHz
Average Gain	-16.17dB
Peak Gain	-13.56dBi
Efficiency	2.41%

ACTIVE 3D ANTENNA PATTERN MEASUREMENTS



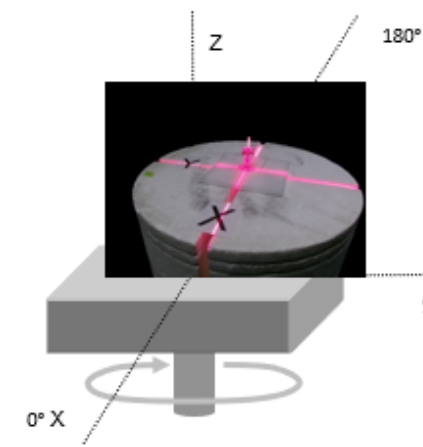
EUT:	Implant
Serial Number:	1364270
Customer:	AsantiDesign, LLC
Attendees:	Matt
Customer Project:	None
Tested By:	Marcelo Aguayo
Test Run Description:	Run 10, 2440

Work Order:	ASDE0002
Date:	6/26/2005
Temperature:	22 °C
Relative Humidity:	25.3% RH
Bar. Pressure:	1019 mbar
Job Site:	MN10

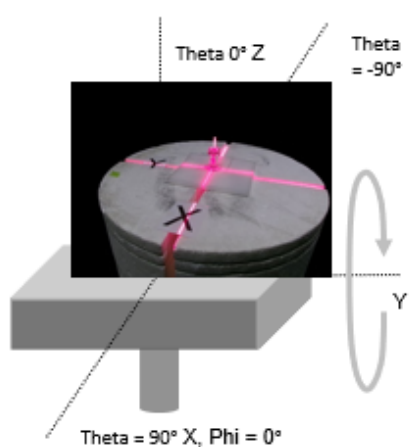
COMMENTS
Phantom

3D PATTERN DATA	
Frequency (MHz)	2440
Ant. Port Input Pwr. (dBm)	0.00
Tot. Rad. Pwr. (dBm)	-16.17
Peak EIRP (dBm)	-13.56
Directivity (dBi)	2.61
Efficiency (dB)	-16.17
Efficiency (%)	2.41
Peak Gain (dBi)	-13.56
Average Gain (dB)	-16.17
E-Plane 3 dB BW (°)	141.00

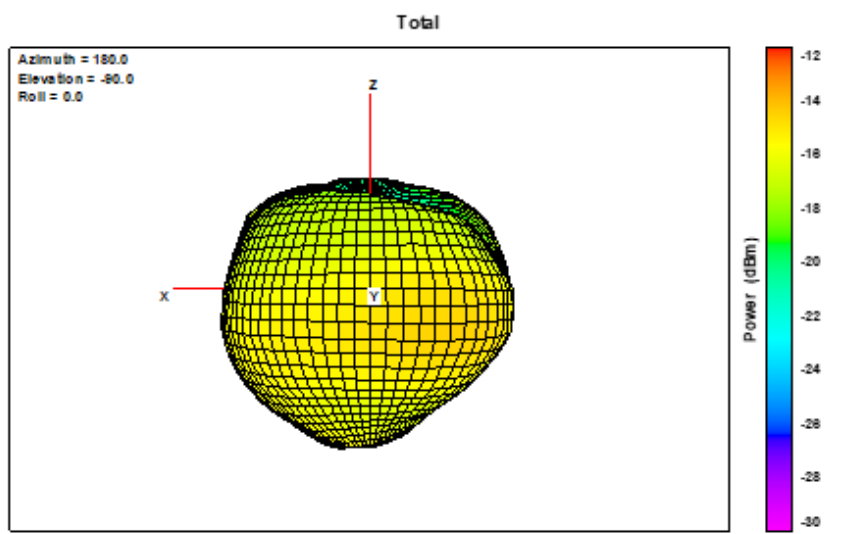
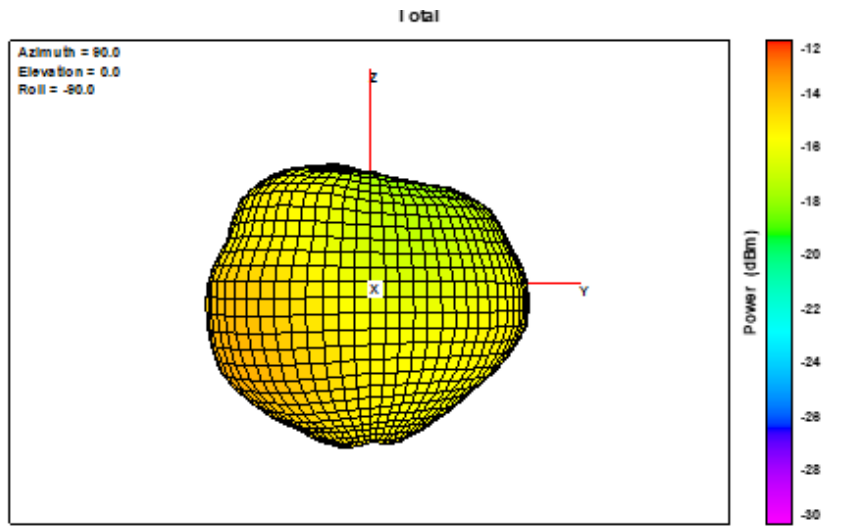
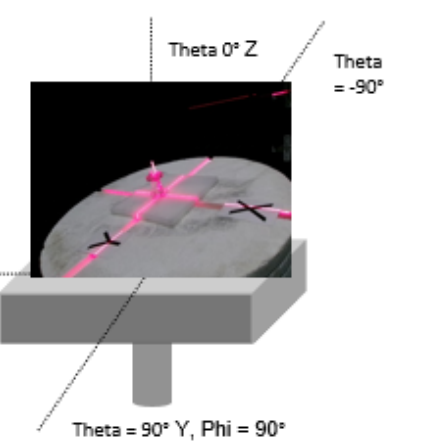
Azimuth Cut (Theta Axis = 90°)



Elevation Cut (Phi Axis = 0°)



Elevation Cut (Phi Axis = 90°)



2D Polar Plots

