Antenna Report

1 General Information

The E4H use an internal antenna with a peak gain of 10.3 dBi (reference Figure 1 for plot). The test for the antenna patterns were performed at Sierra Wireless using there anechoic OTA chamber test range. The data that plot was taken from the data in the attached excel spread sheet (attachment 1).

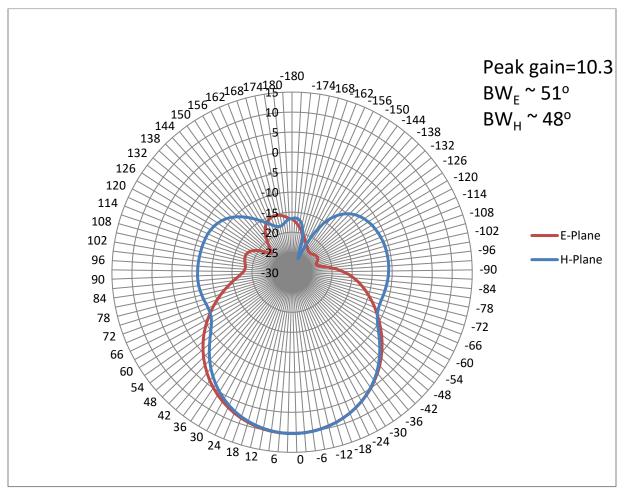


Figure 1. Gain of Internal Antenna



Attachment 1. Antenna Pattern Data



Amtech Technology Center 8600 Jefferson Street NE Albuquerque, New Mexico 87113 505.856.8000 tel 505.857.0715 fax

2 Equipment List

The following equipment was used:

Equipment	Used Description
RF Signal Generator	Used to excite the Antenna Under Test (AUT)
RF Signal Analyzer	Used to measure the power level from the AUT
Measurement Antenna	Used to with the RF Signal Analyzer to collect
	the RF signal from the excited AUT.
Multi-Axis Positioner	Used to position the AUT in the X, Y, and Z
	axis.

3 Test Chamber & Set up pictures



Photo 1. AUT Mounting X Y Z Reference



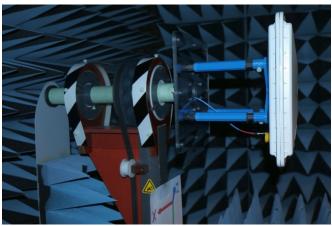


Photo 2. Antenna Mounting on Multi Axis Positioner

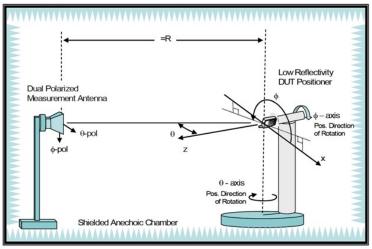


Diagram 1. AUT Test Chamber Setup

4 Engineer Contact

The following engineer is the contact person for the content of this report.

Michael P. Sayale

Michael P. Gonzales | Analog/RF/DSP Design Engineer TransCore | 8600 Jefferson St. NE | Albuquerque, NM 87113 Office: 505 856 8022 Email: Michael. Gonzales@Transcore.com.



Amtech Technology Center 8600 Jefferson Street NE Albuquerque, New Mexico 87113 505.856.8000 tel 505.857.0715 fax