

**Manufacturer: Vestel Elektronik Sanayi ve Ticaret A.S.**

Organize Sanayi Bolgesi, 45030 Manisa TURKEY

# **Antenna Data Sheet**

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## 1 Basic Antenna Characteristic

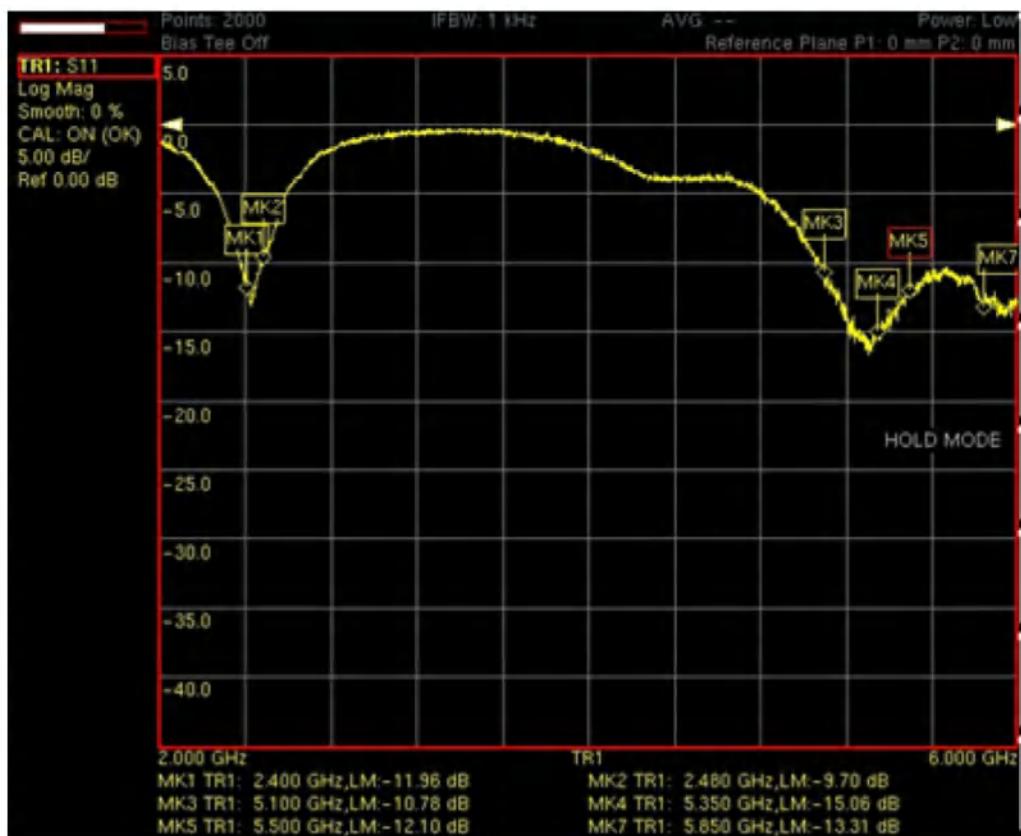
Module has on board printed antennas with the given gain values in below.

### 1.1 Onboard Printed Antenna Gain Table

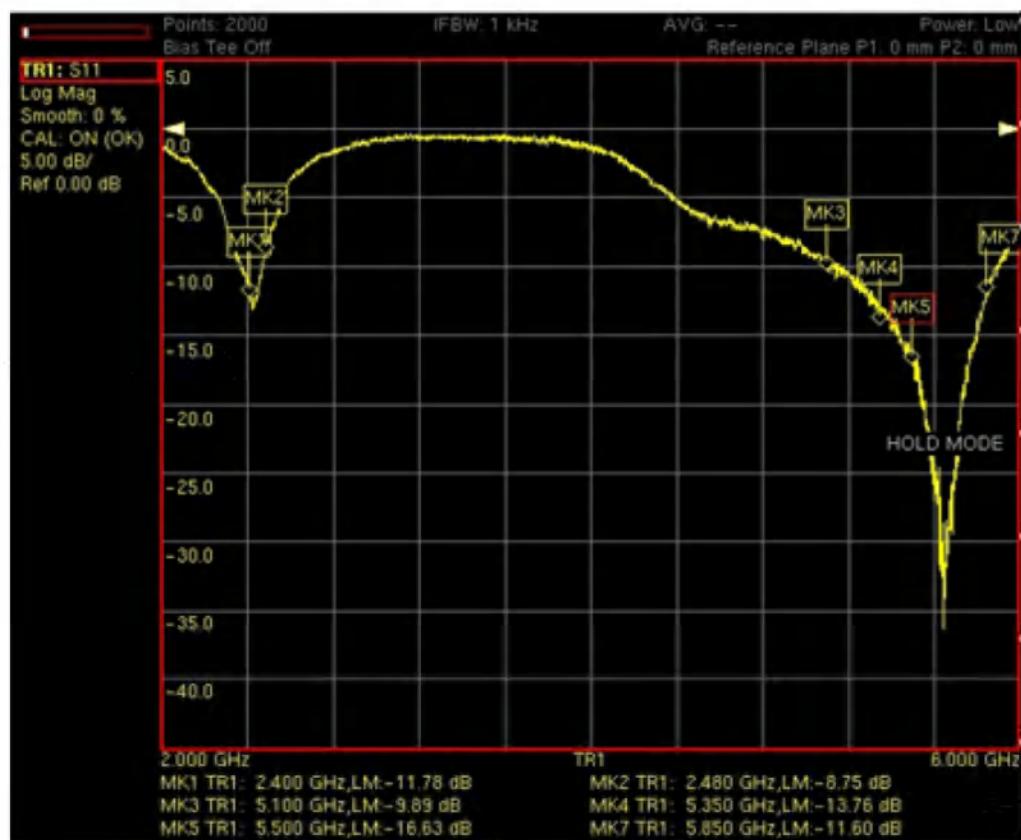
	2.4 Ghz	5 Ghz low band (5180 to 5320 ) (ch 36-64)	5 Ghz medium band (5500 to 5700) (ch100-140)	5 Ghz high band (5745 to 5825) (ch149-165)
Antenna 0	3,4 dBi	2,97 dBi	3,69 dBi	2,89 dBi
Antenna 1	2,12 dBi	3,7 dBi	3,68 dBi	2,83 dBi
BT	0,29 dBi			

### 1.2 Antenna Dimensions

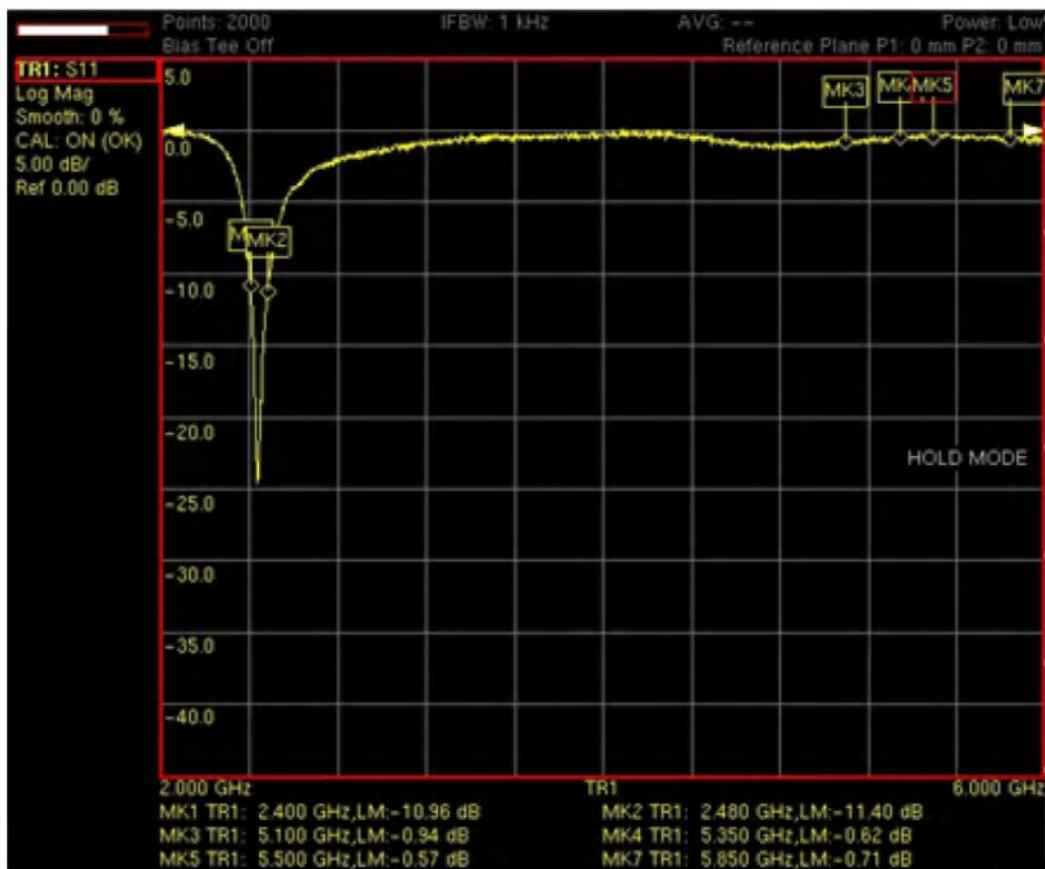
### 1.3 Antenna 0 Return Loss



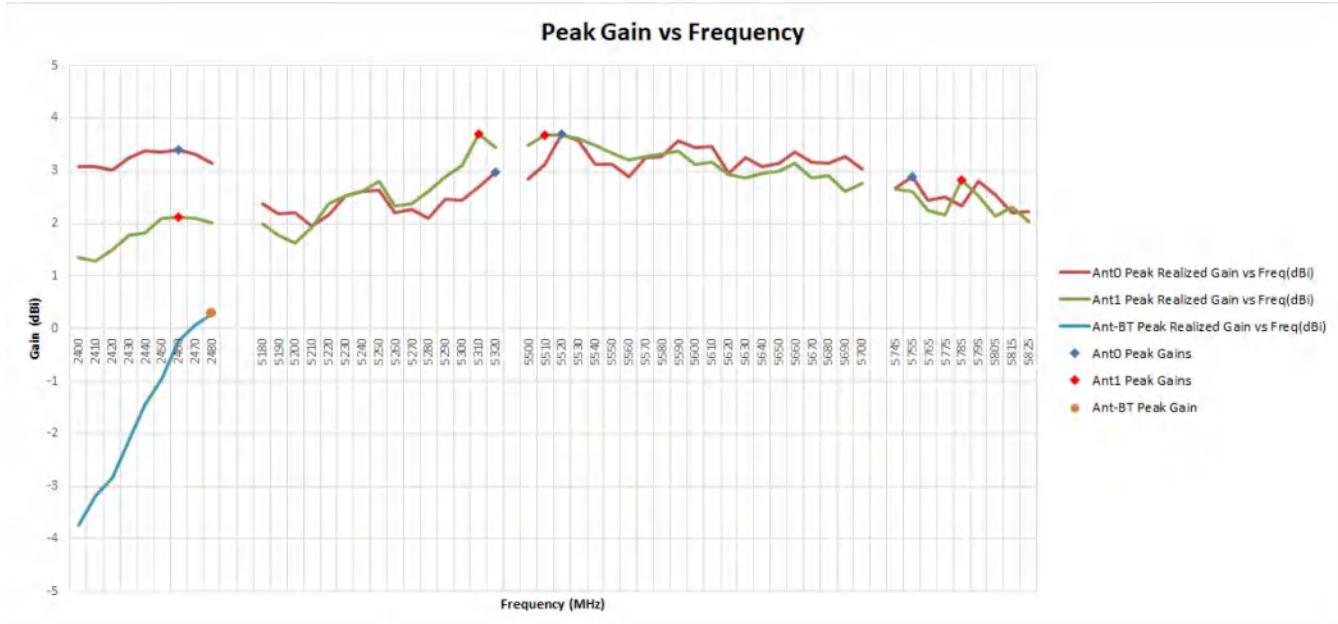
### 1.4 Antenna 1 Return Loss



## 1.5 Antenna BT Return Loss



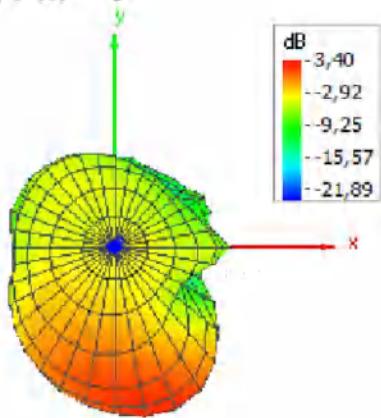
## 2 Antenna Gain Vs Frequency Characteristics



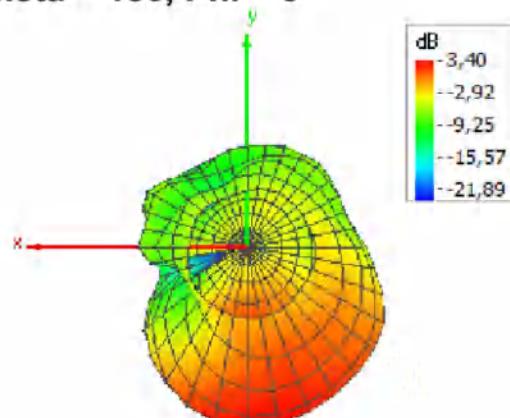
### 3 Antenna 0 Radiation Patterns @ Peak Gain

#### 3.1 2460 MHz

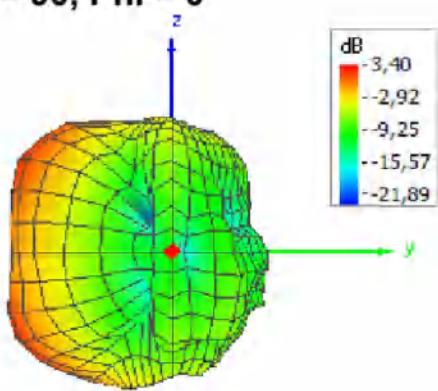
**Theta = 0, Phi = 0**



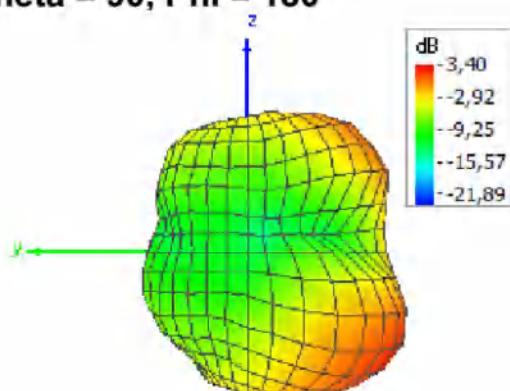
**Theta = 180, Phi = 0**



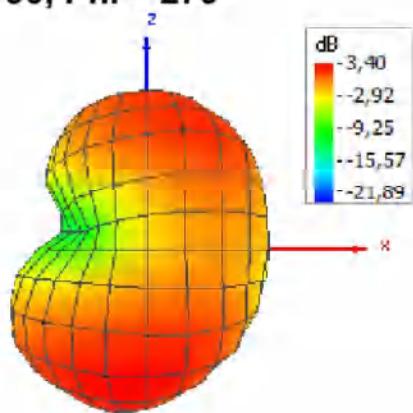
**Theta = 90, Phi = 0**



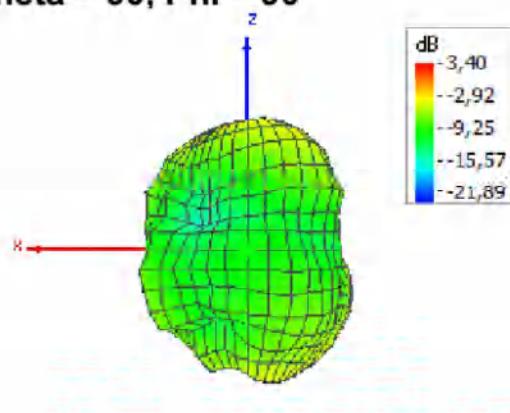
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

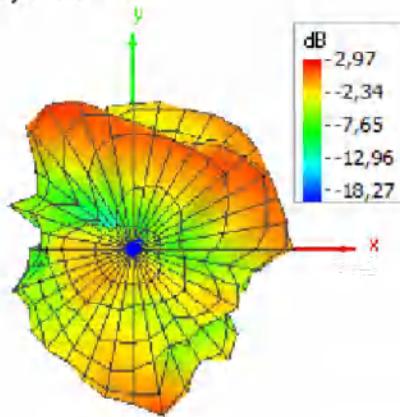


**Theta = 90, Phi = 90**

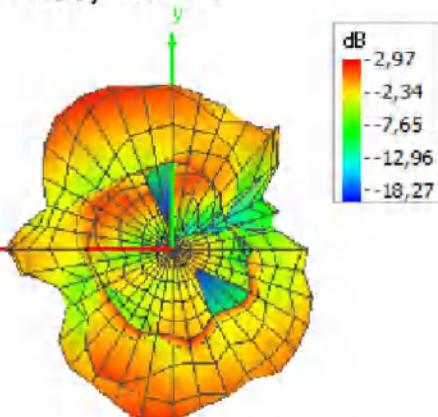


#### 3.2 5320 MHz

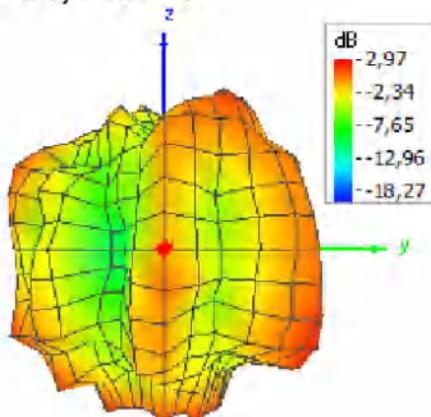
**Theta = 0, Phi = 0**



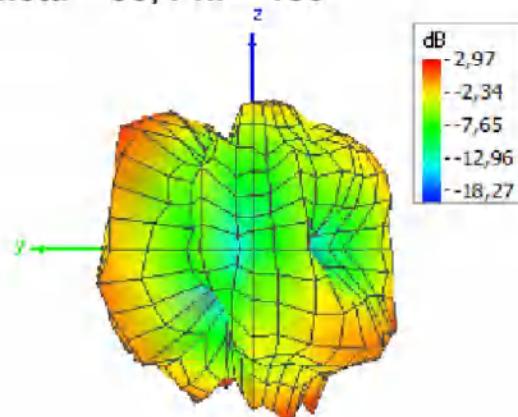
**Theta = 180, Phi = 0**



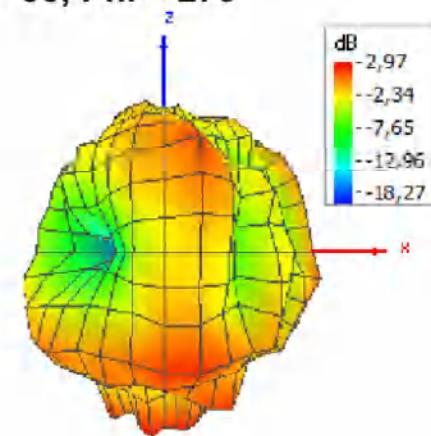
**Theta = 90, Phi = 0**



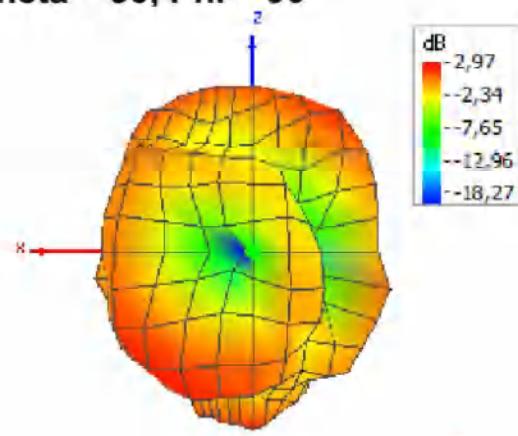
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

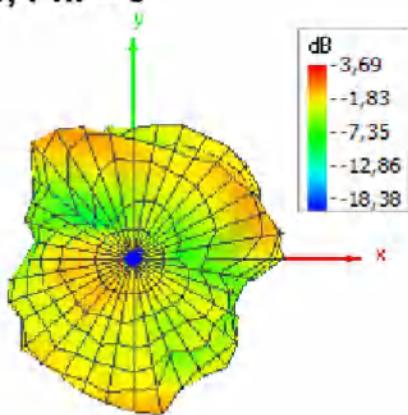


**Theta = 90, Phi = 90**

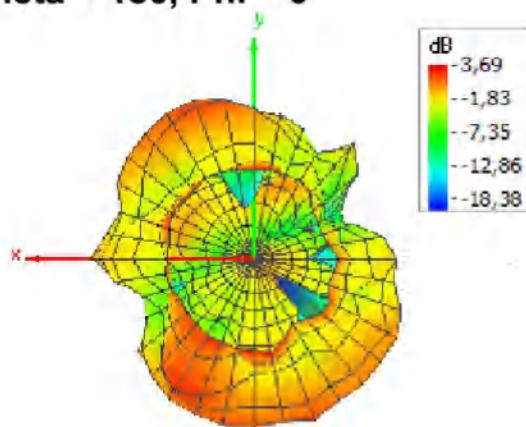


### 3.3 5520 MHz

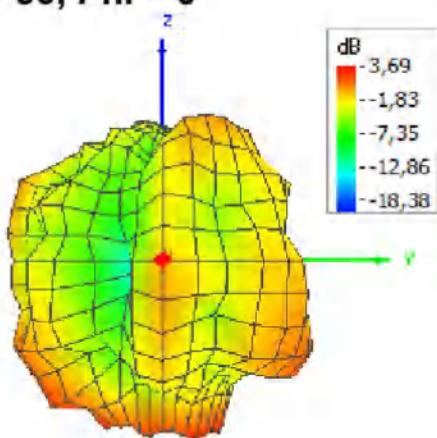
**Theta = 0, Phi = 0**



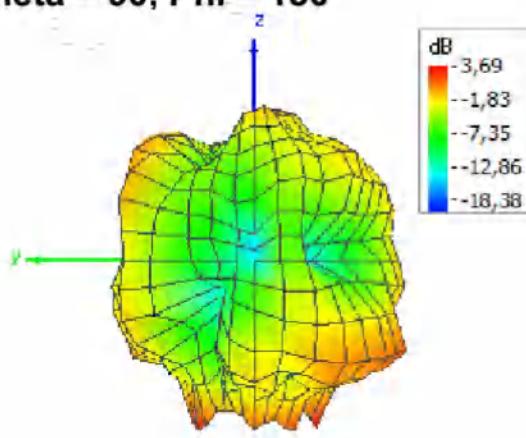
**Theta = 180, Phi = 0**



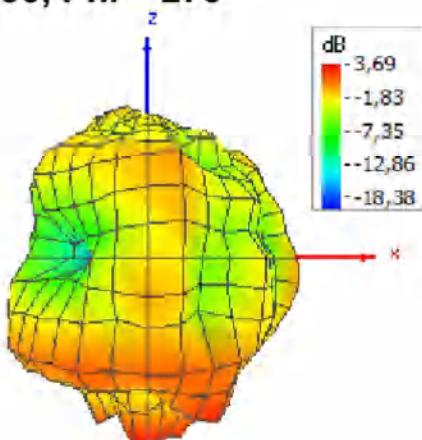
**Theta = 90, Phi = 0**



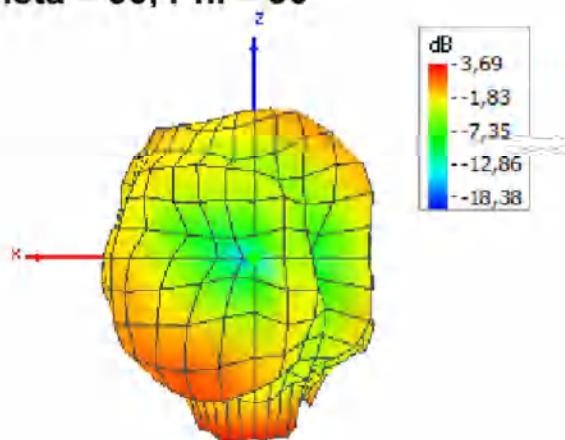
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

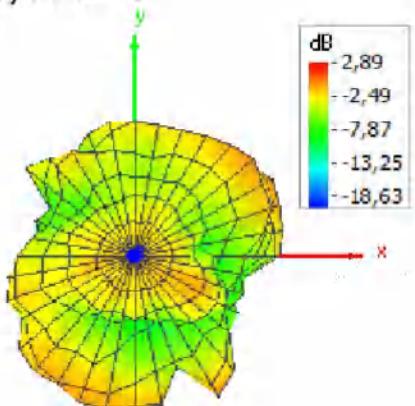


**Theta = 90, Phi = 90**

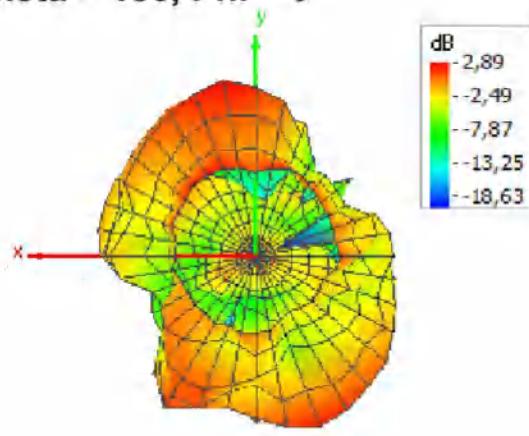


### 3.4 5755 MHz

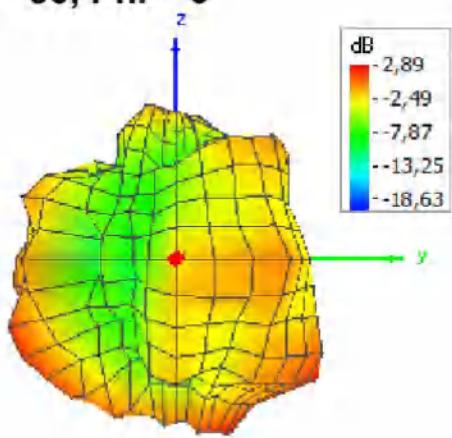
**Theta = 0, Phi = 0**



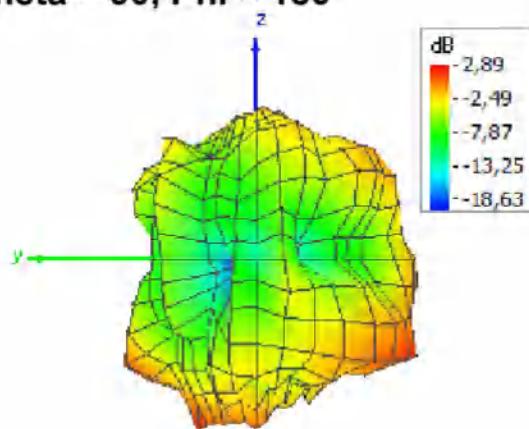
**Theta = 180, Phi = 0**



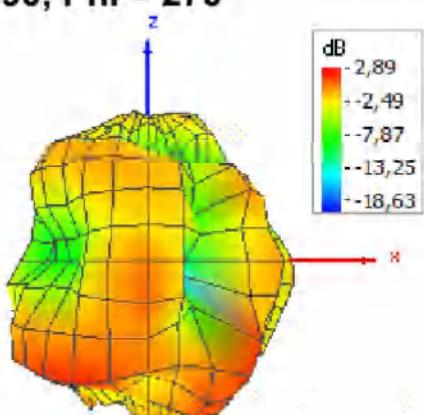
**Theta = 90, Phi = 0**



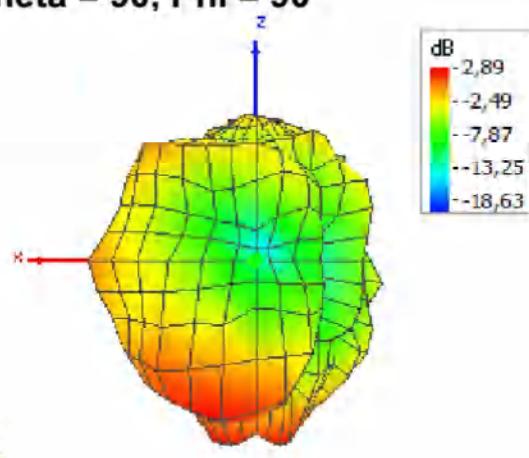
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



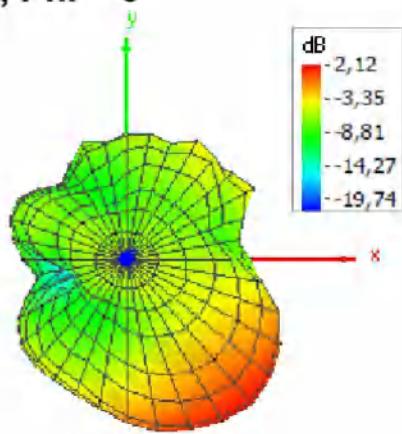
**Theta = 90, Phi = 90**



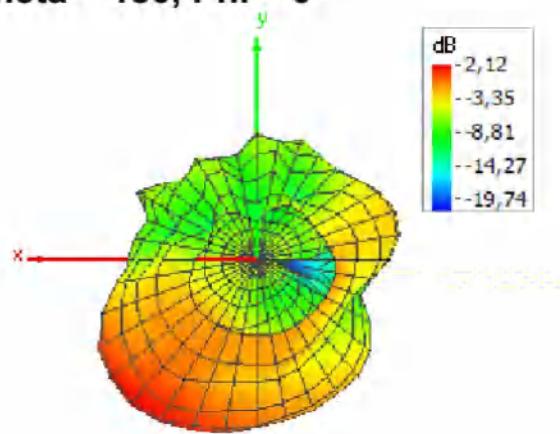
## 4 Antenna 1 Radiation Patterns @ Peak Gain

### 4.1 2460 MHz

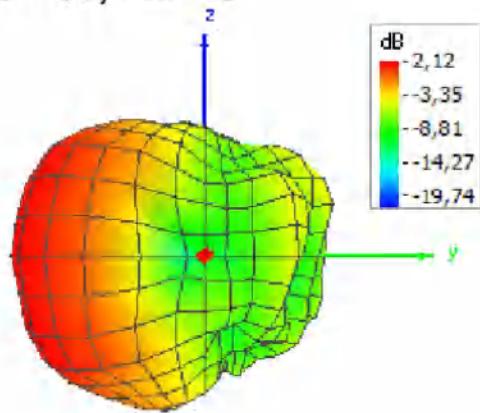
**Theta = 0, Phi = 0**



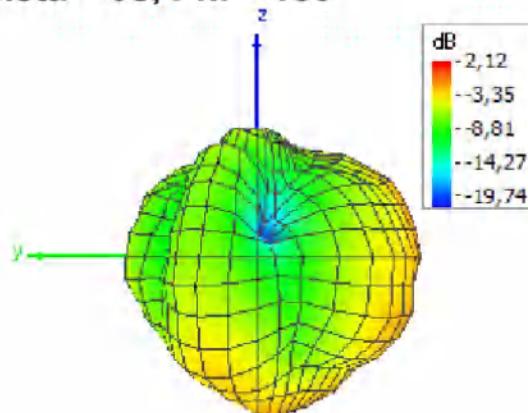
**Theta = 180, Phi = 0**



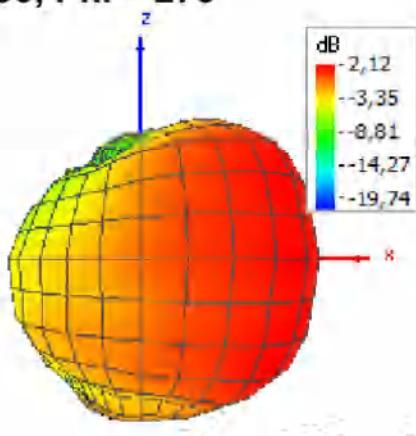
**Theta = 90, Phi = 0**



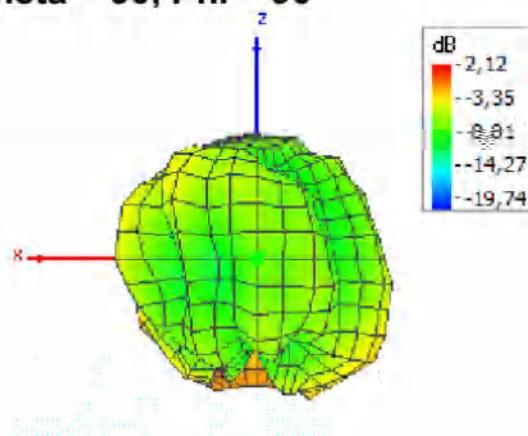
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

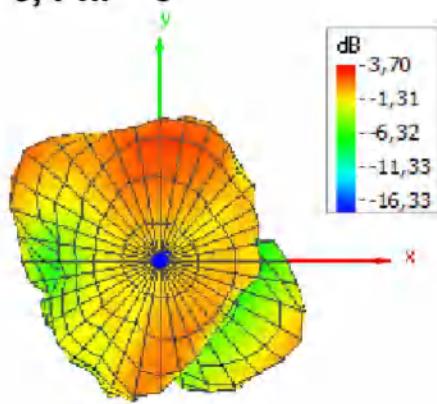


**Theta = 90, Phi = 90**

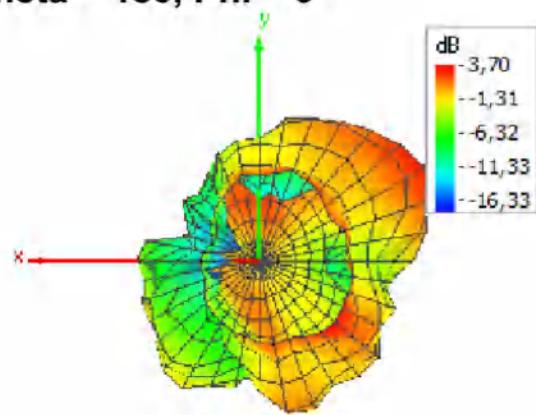


#### 4.2 5310 MHz

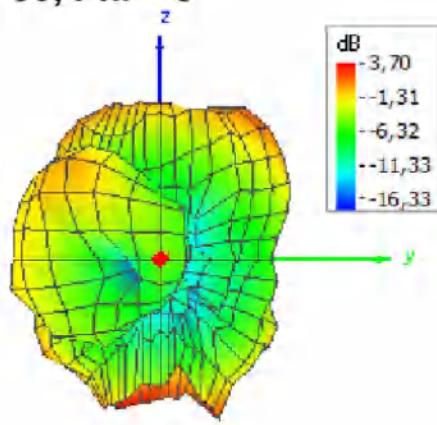
**Theta = 0, Phi = 0**



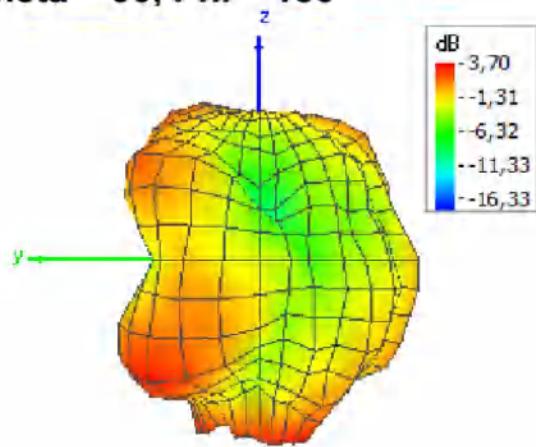
**Theta = 180, Phi = 0**



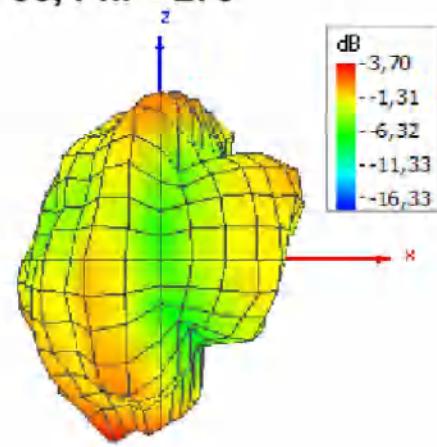
**Theta = 90, Phi = 0**



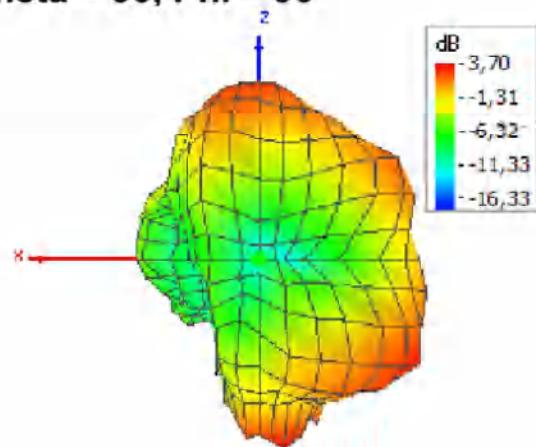
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

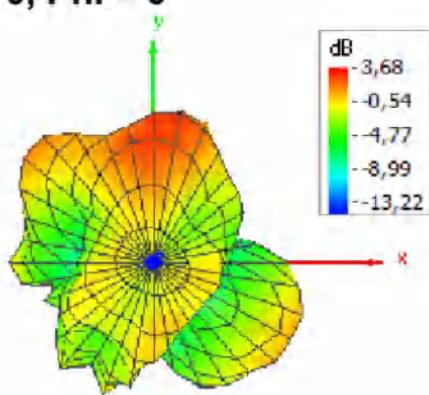


**Theta = 90, Phi = 90**

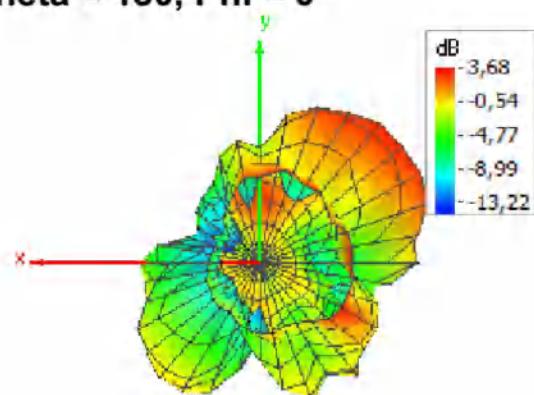


#### 4.3 5510 MHz

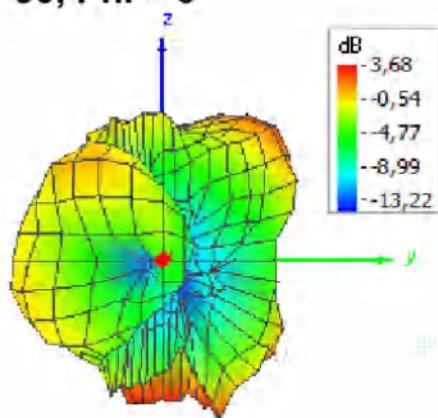
**Theta = 0, Phi = 0**



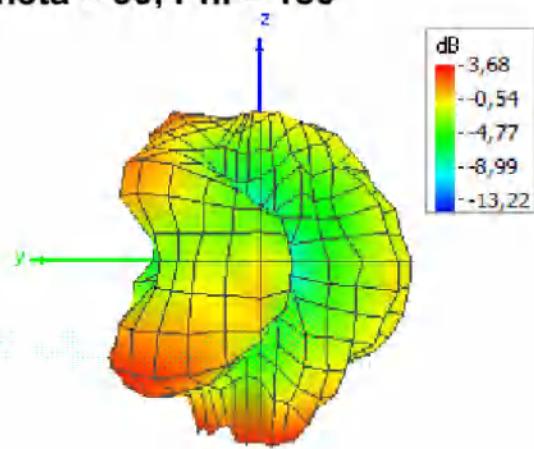
**Theta = 180, Phi = 0**



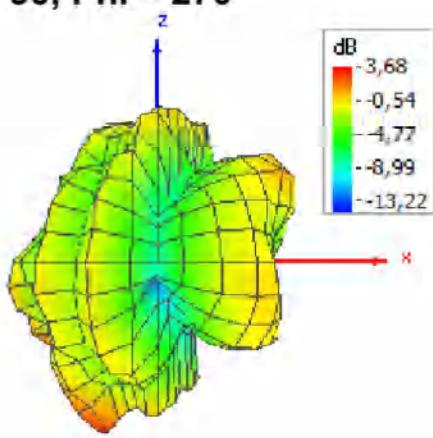
**Theta = 90, Phi = 0**



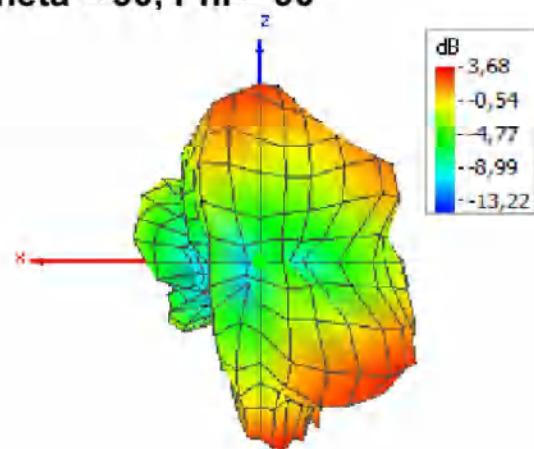
**Theta = 90, Phi = 180**



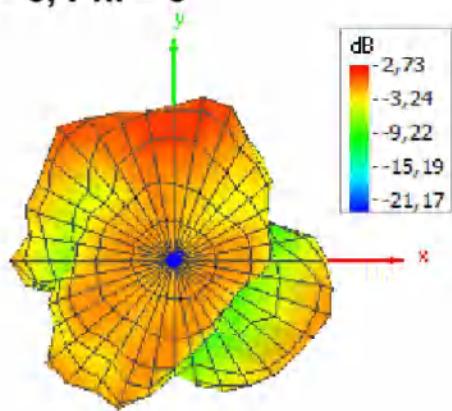
**Theta = 90, Phi = 270**



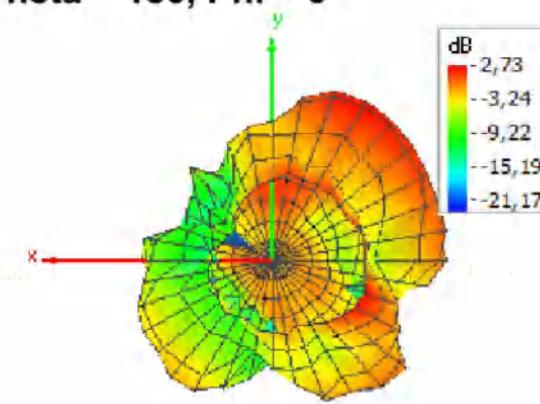
**Theta = 90, Phi = 90**



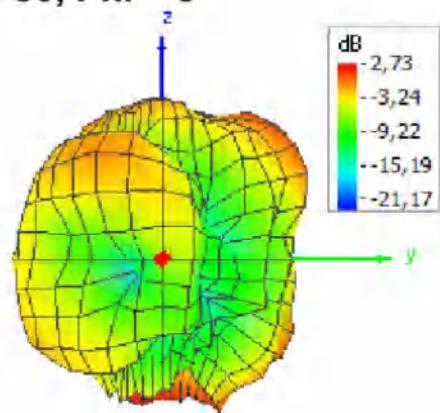
**Theta = 0, Phi = 0**



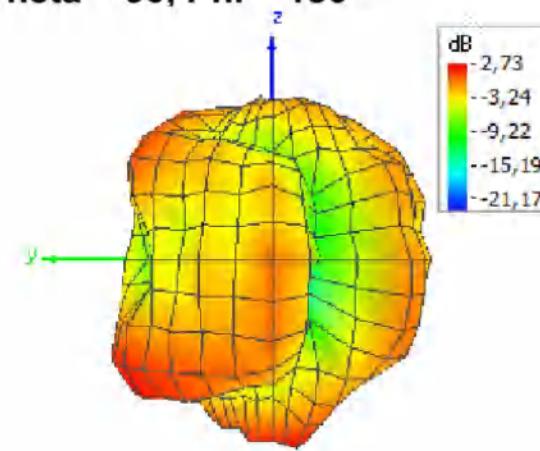
**Theta = 180, Phi = 0**



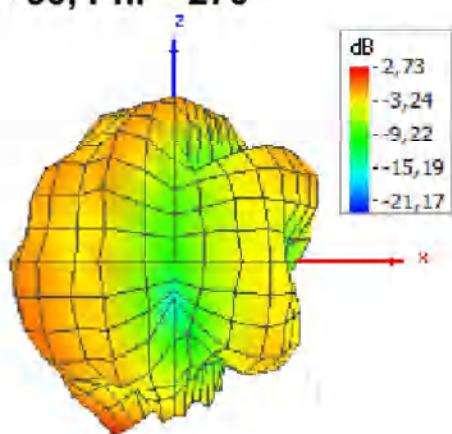
**Theta = 90, Phi = 0**



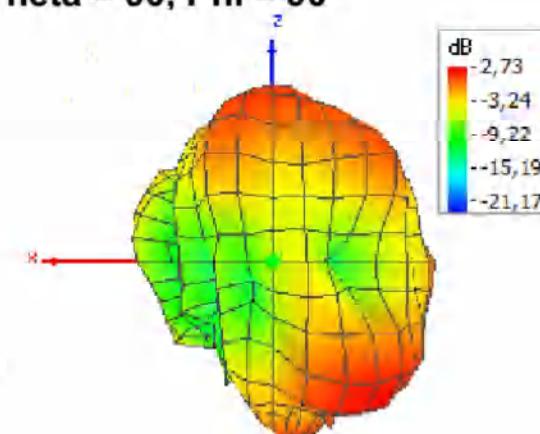
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

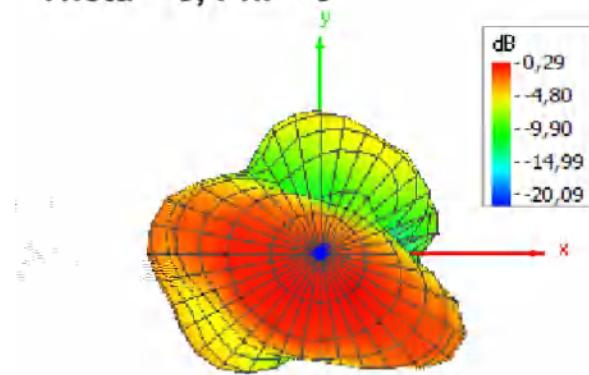


**Theta = 90, Phi = 90**

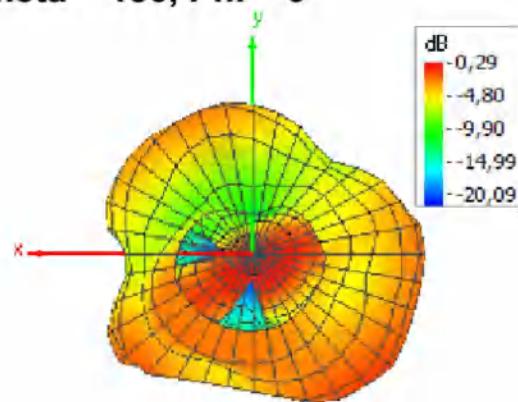


## 5 Antenna BT Radiation Pattern @ Peak Gain

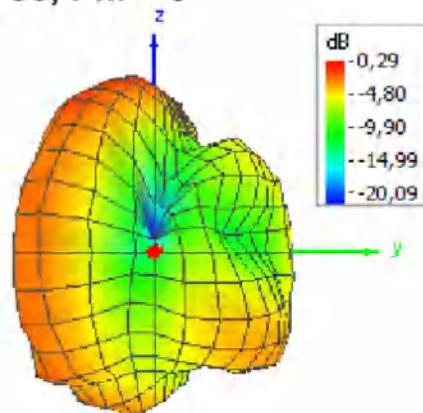
**Theta = 0, Phi = 0**



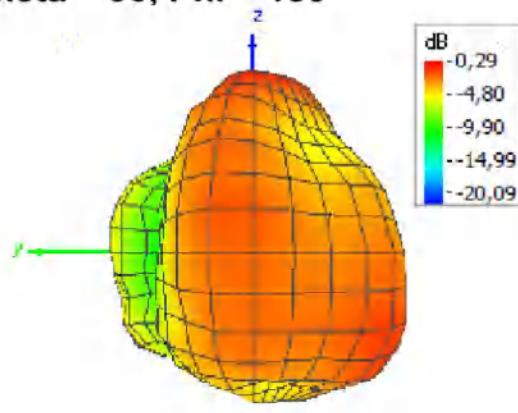
**Theta = 180, Phi = 0**



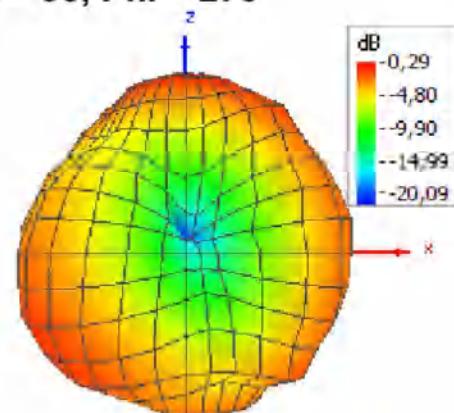
**Theta = 90, Phi = 0**



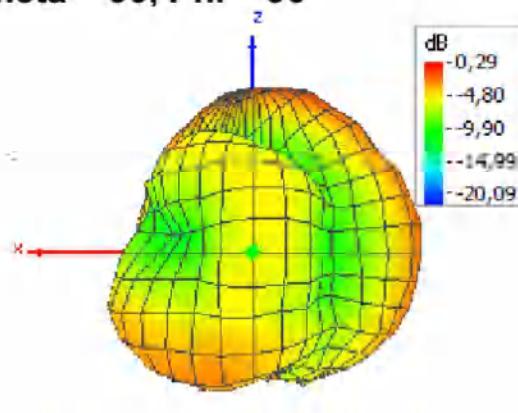
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



**Theta = 90, Phi = 90**



## 6 Test Site Information

- Albatross full anechoic chamber (5x5 m)
- Howland QR-4 Horn antenna
- R&S ZNB 20 VNA

- R&S AMS32 measurement software
- Maturo Controller

