

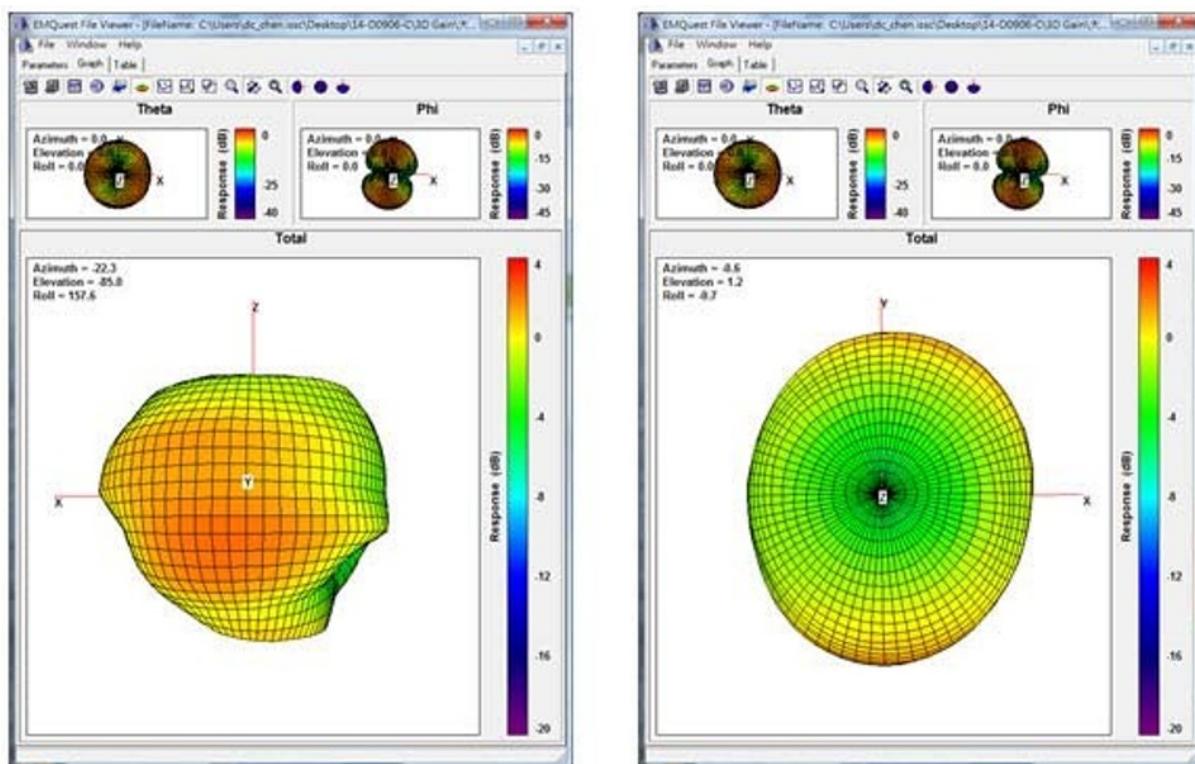
## 7. PCB Antenna Information

The BTM983H module is integrated with a PCB antenna. This chapter provides the radiation pattern, its orientation, and characteristics.

### 7.1 Antenna Radiation Pattern

The following figure illustrates the 3D radiation pattern of the PCB antenna at 2438 MHz.

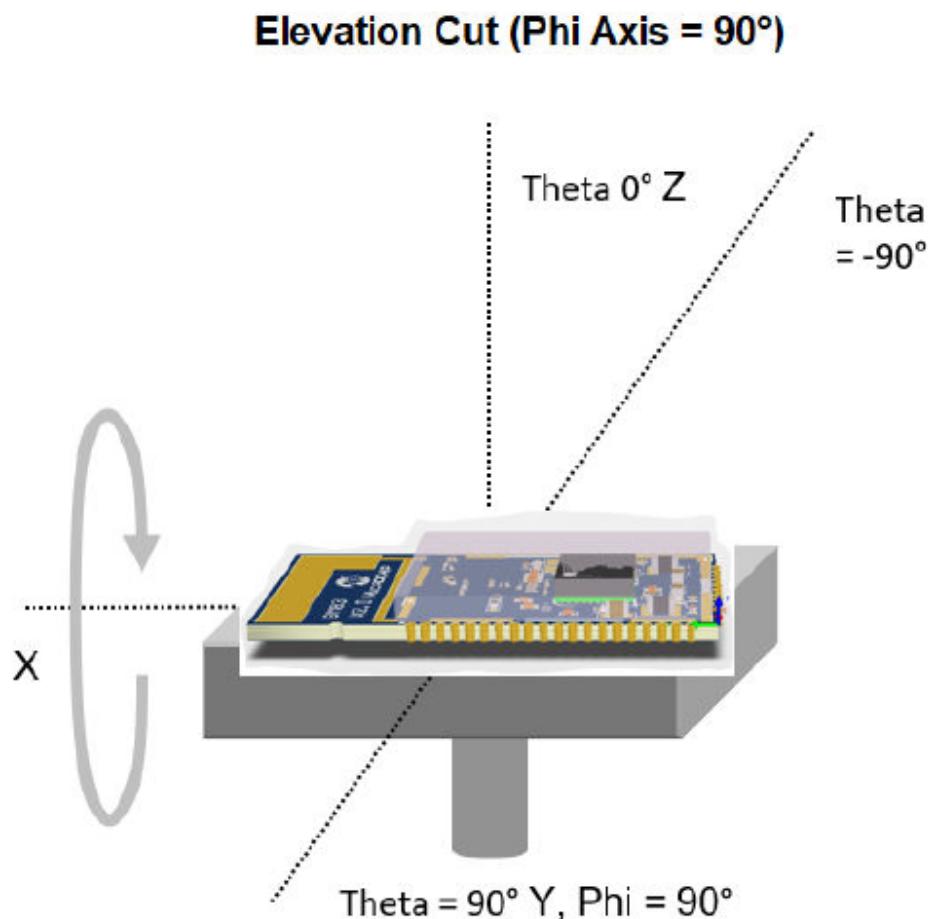
**Figure 7-1. PCB Antenna 3D Radiation Pattern At 2438 MHz<sup>(1)</sup>**



1. The preceding figure illustrates the typical radiation pattern with BTM983H module on the 45 mm x 45 mm BTM983H Carrier Board.

The following figure illustrates the module orientation for antenna radiation pattern

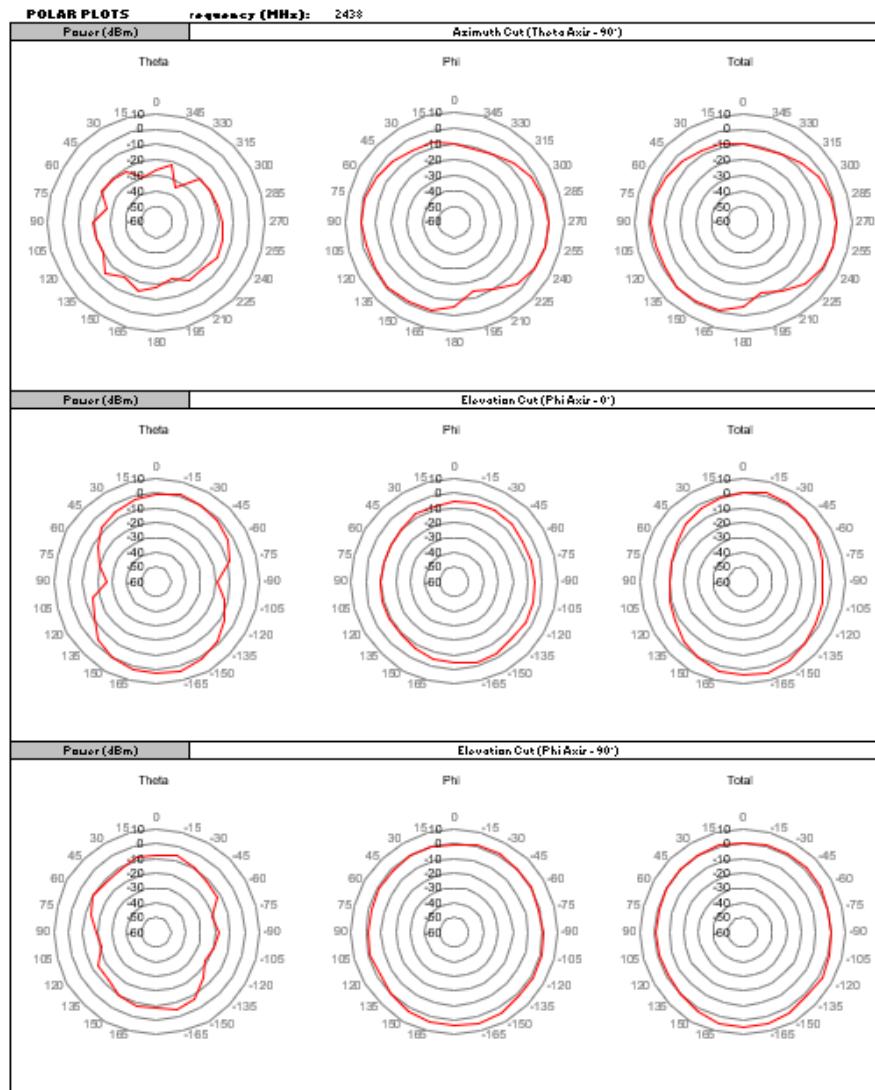
**Figure 7-2. Module Orientation for Radiation Pattern**



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**Figure 7-3. Polar Plots<sup>(1)</sup>**



1. The preceding figure illustrates the typical radiation pattern with BTM983H module on the 45 mm x 45 mm BTM983H Carrier Board.

The following table provides the characteristics of PCB antenna with BTM983H Module mounted on BTM983H Carrier Board, plugged into BTM983H EVB.

**Table 7-1. BTM983H PCB Antenna Characteristics**

Parameter	Value
Frequency	2400 MHz to 2480 MHz
Peak Gain	3.5 dBi
Efficiency	80%