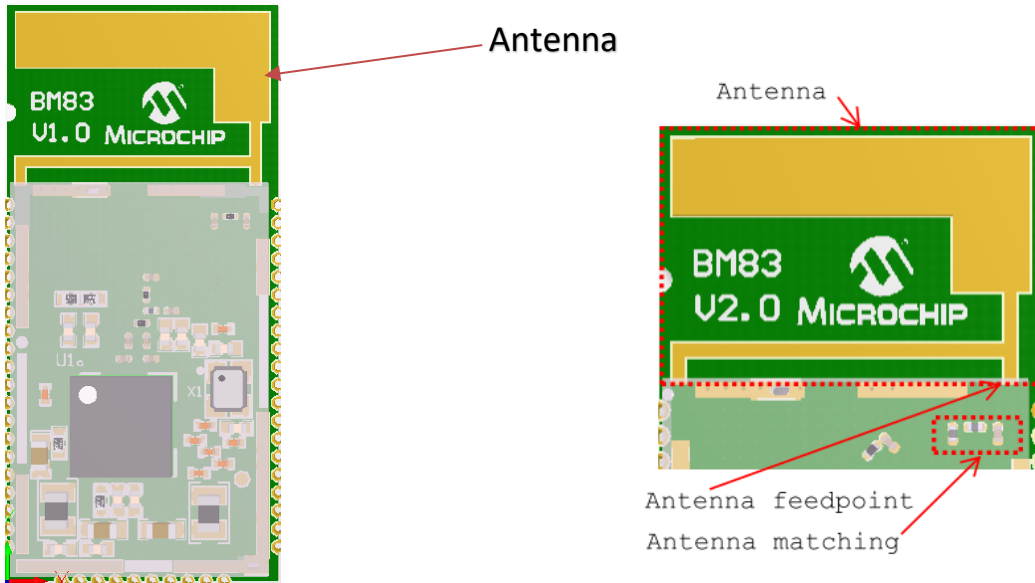




# **BM83 PCB Antenna**

## 1.1. PCB view of the Module-

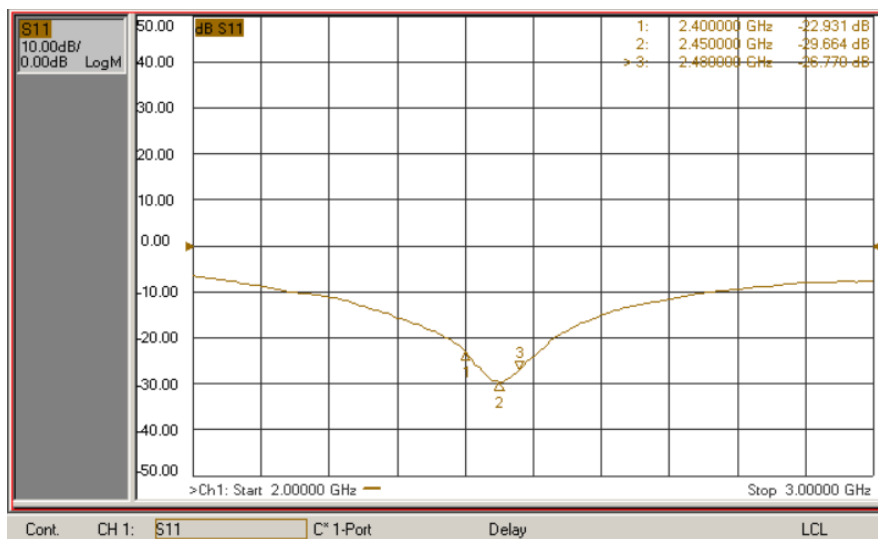


## 1.2. Antenna characteristics

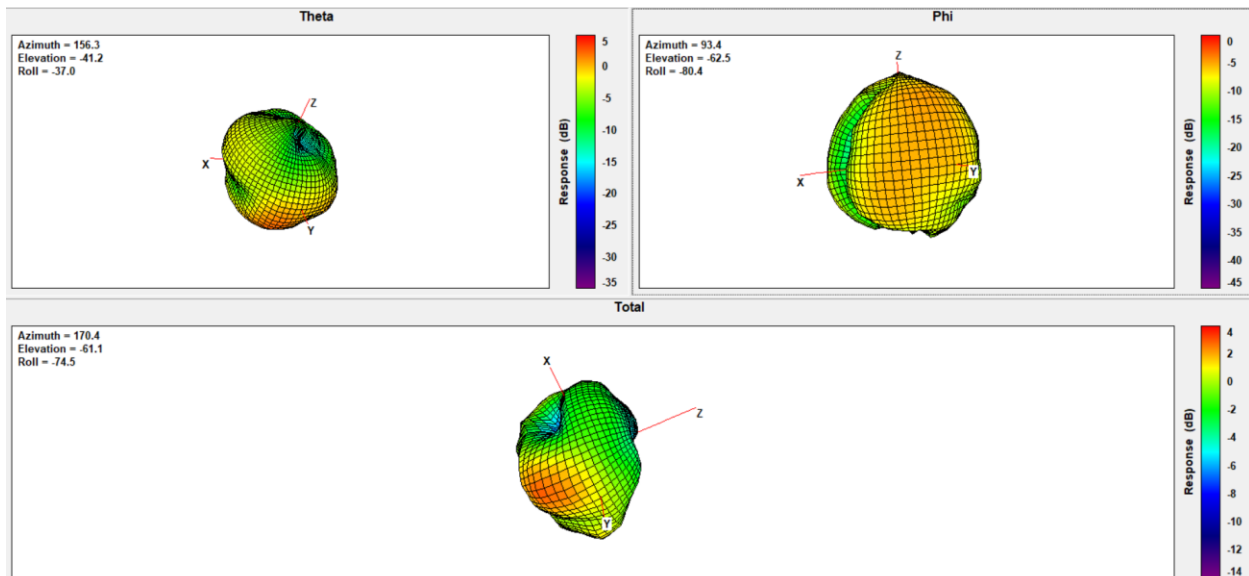
- The module uses an on-board PCB antenna with 3.5 dBi gain, 80% average efficiency when mounted on evaluation board.

Antenna Gain	3.5dBi
Measurement frequency	2.442GHz
Efficiency (avg)	80%
Operating band	2.4GHz – 2.5GHz

## Return Loss

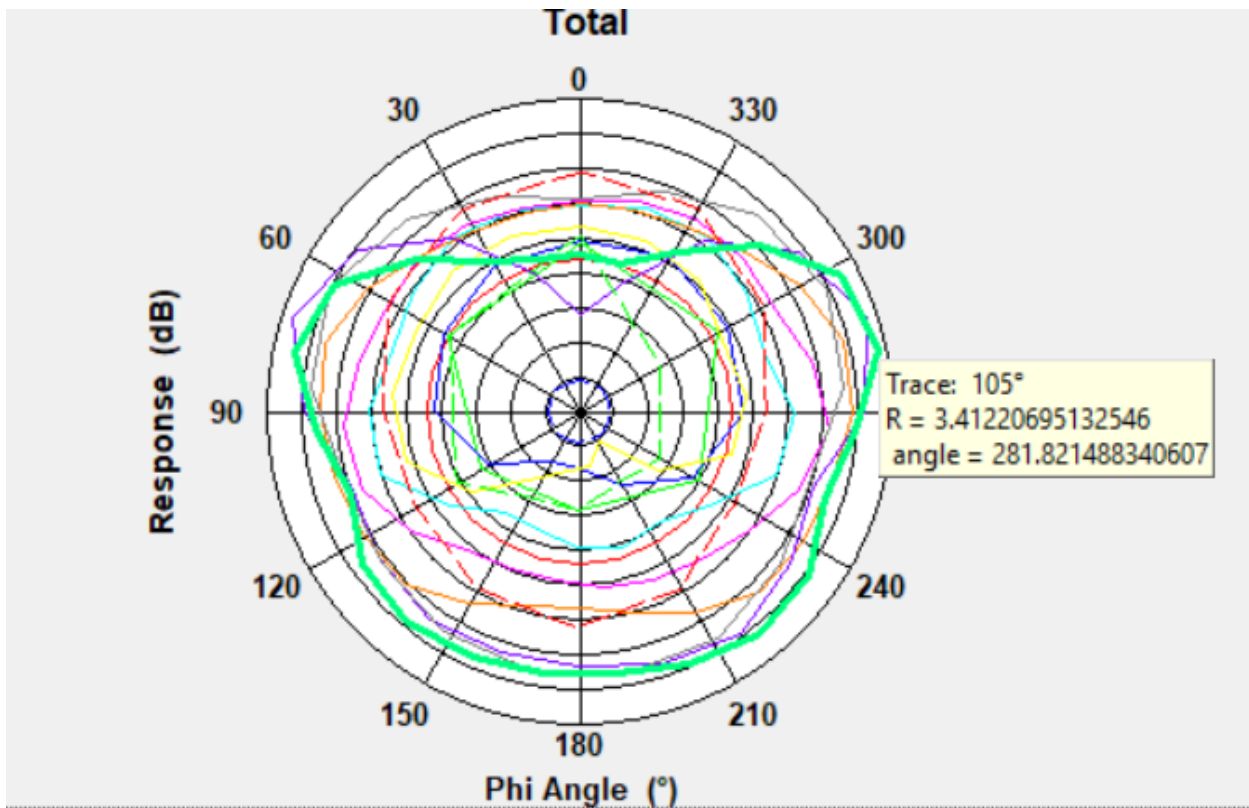


## 3D radiation pattern

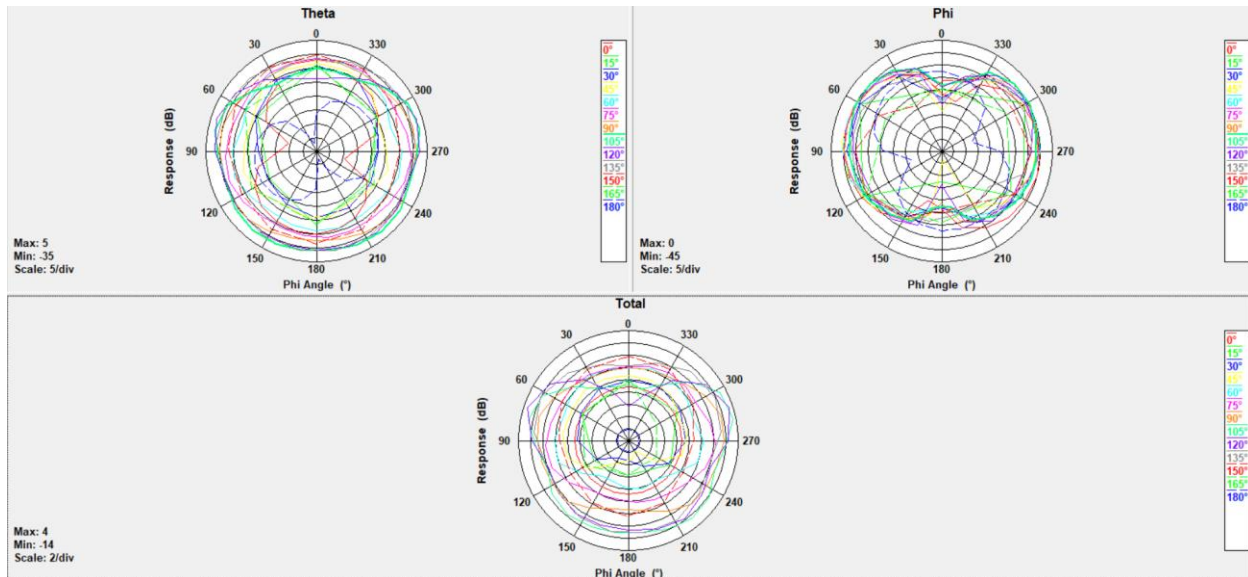


## Gain Measurement

Peak Gain = 3.5dBi at  $\phi = 282^\circ$



## Polar Plot



## Maximum gain ( $\Theta, \Phi$ )

