

Antenna Report

FCC-ID: 2A4DH-3907

Product Model Number: ZE8TAH

Date: 1/23/2023

Amazon.com Services LLC

ANTENNA SPECIFICATION

Frequency range of operation:

Antenna 1: Left BT/BLE Antenna

Antenna 2: Right BT/BLE Antenna

Antenna 1 & 2:

- Bluetooth/BLE: 2.4 to 2.48 GHz

Antenna Type:

Antenna 1 & 2: PCB

Antenna 1 & 2 Implementation: PCB

Peak Antenna Gain:

Peak Antenna Gain (dBi)		
Band	Antenna 1	Antenna 2
BT/BTLE (2400-2480MHz)	1 dBi	1 dBi

ANTENNA GAIN MEASUREMENT

Measurement test method:

- Solder pigtails at feeding point of Bluetooth antenna on the MLB, and measure antenna's passive performance using VNA and OTA chamber. Measurements done at device level

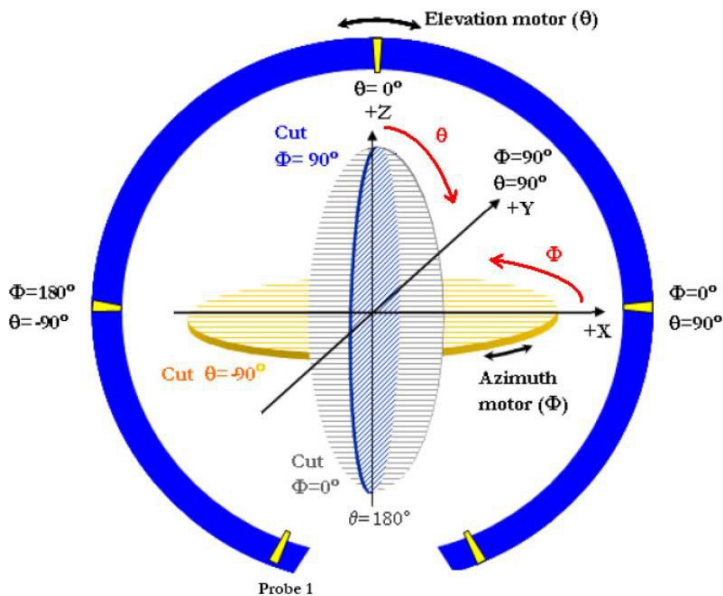
Test Equipment used:

- OTA chamber
- Vector Network Analyzer
NETWORK ANALYZER: AGILENT E5071C 4 PORT 8.5GHz
Model NO: MY46107542
Cal Date: 3/10/2022
Cal Due Date: 3/10/2023

Test Setup:

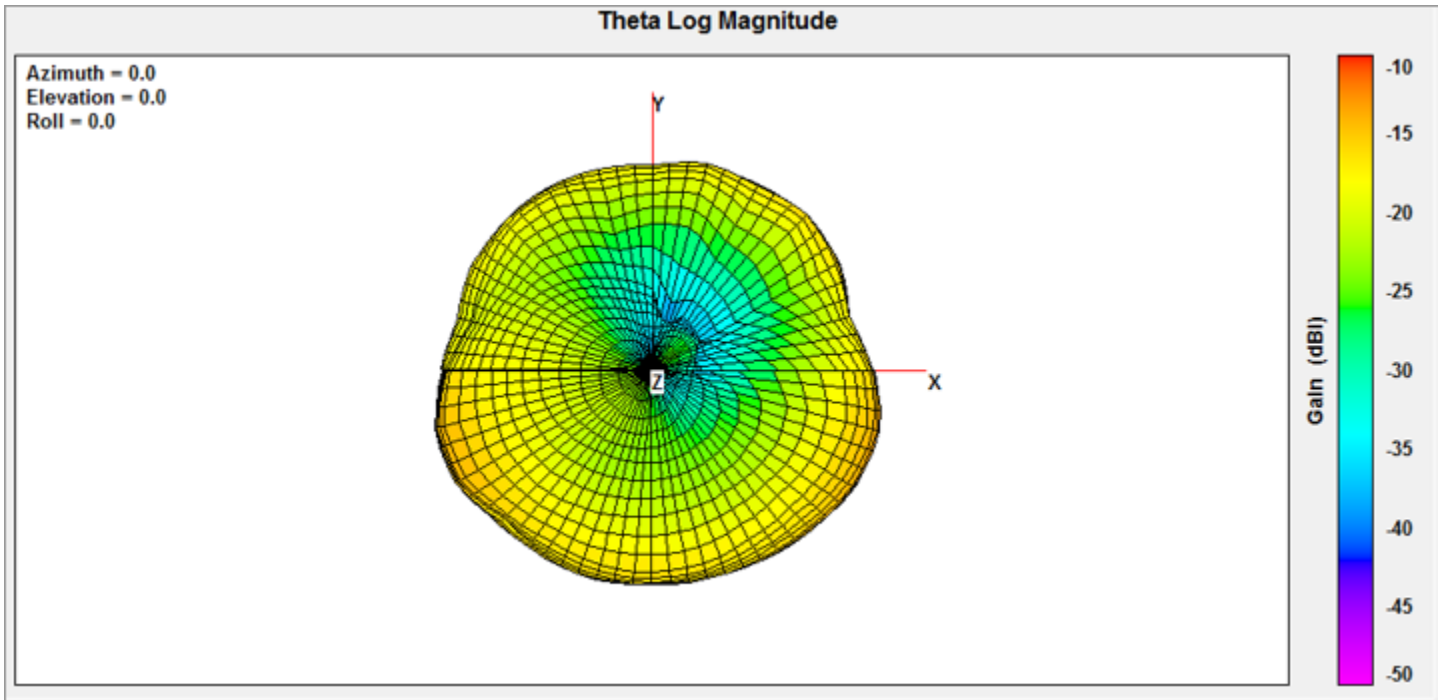
- Set up the frame on the table, connect the temple under test to the signal and terminate the other temple with a 50 ohm
- Measure the 3D passive antenna performance

Antenna Radiated Pattern Orientation:

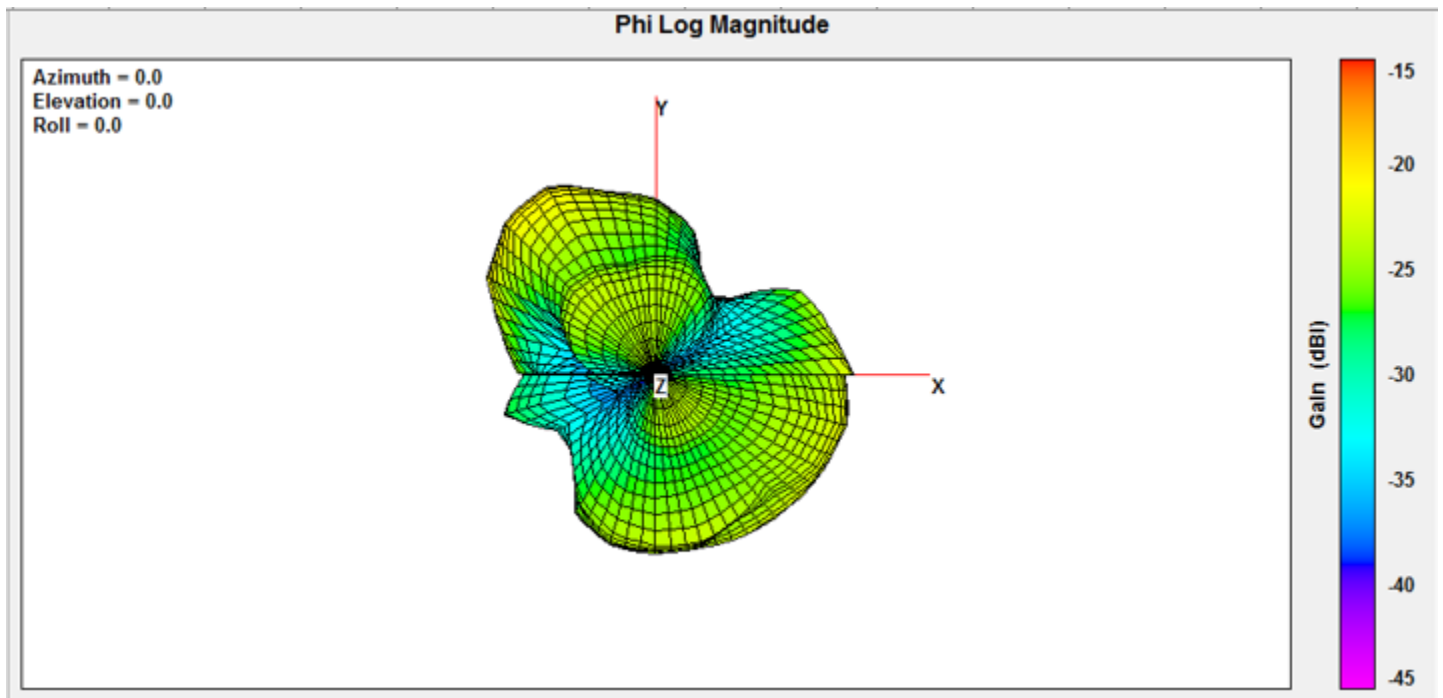


Antenna 1: Left Temple BT/BLE Antenna

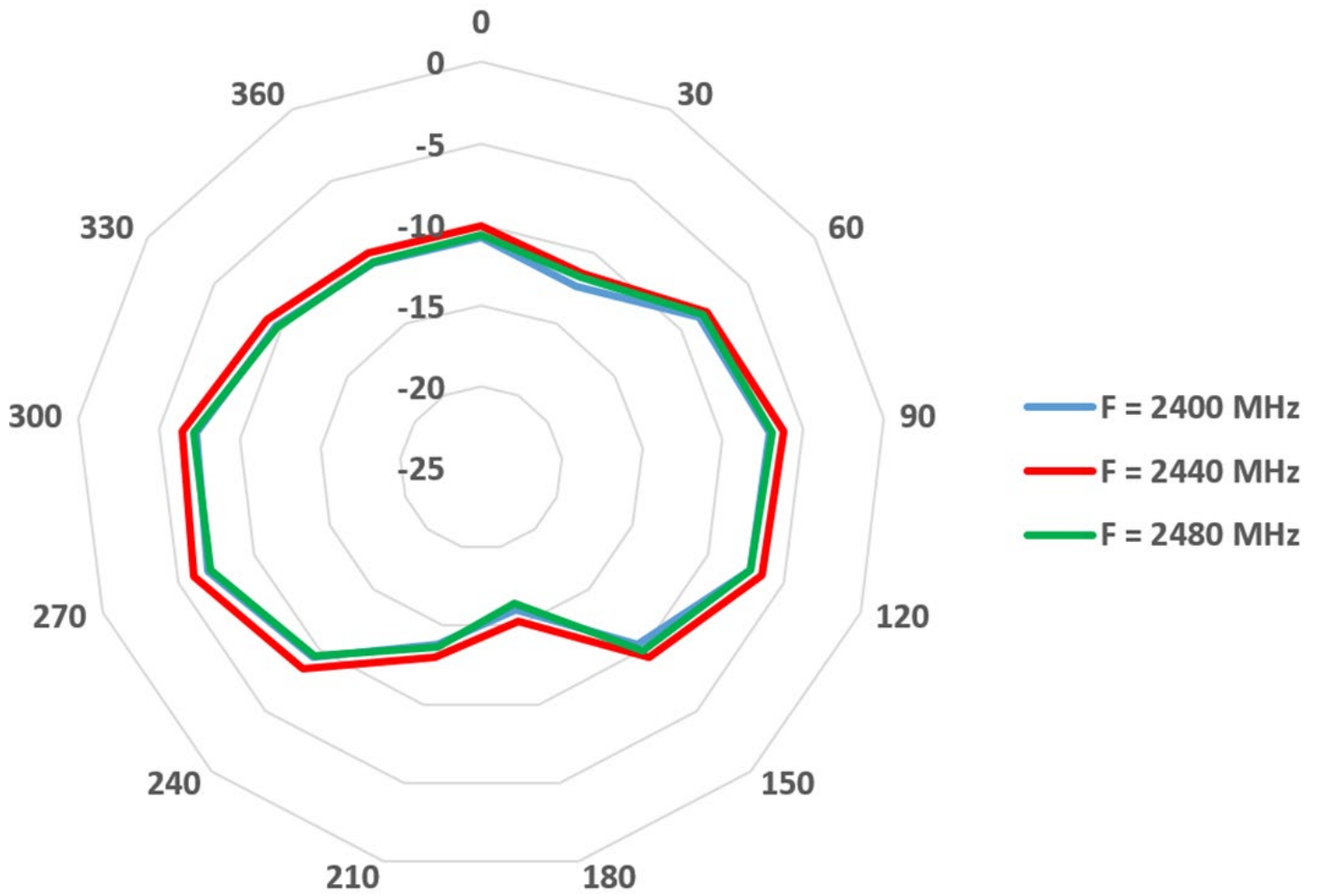
Theta



Phi

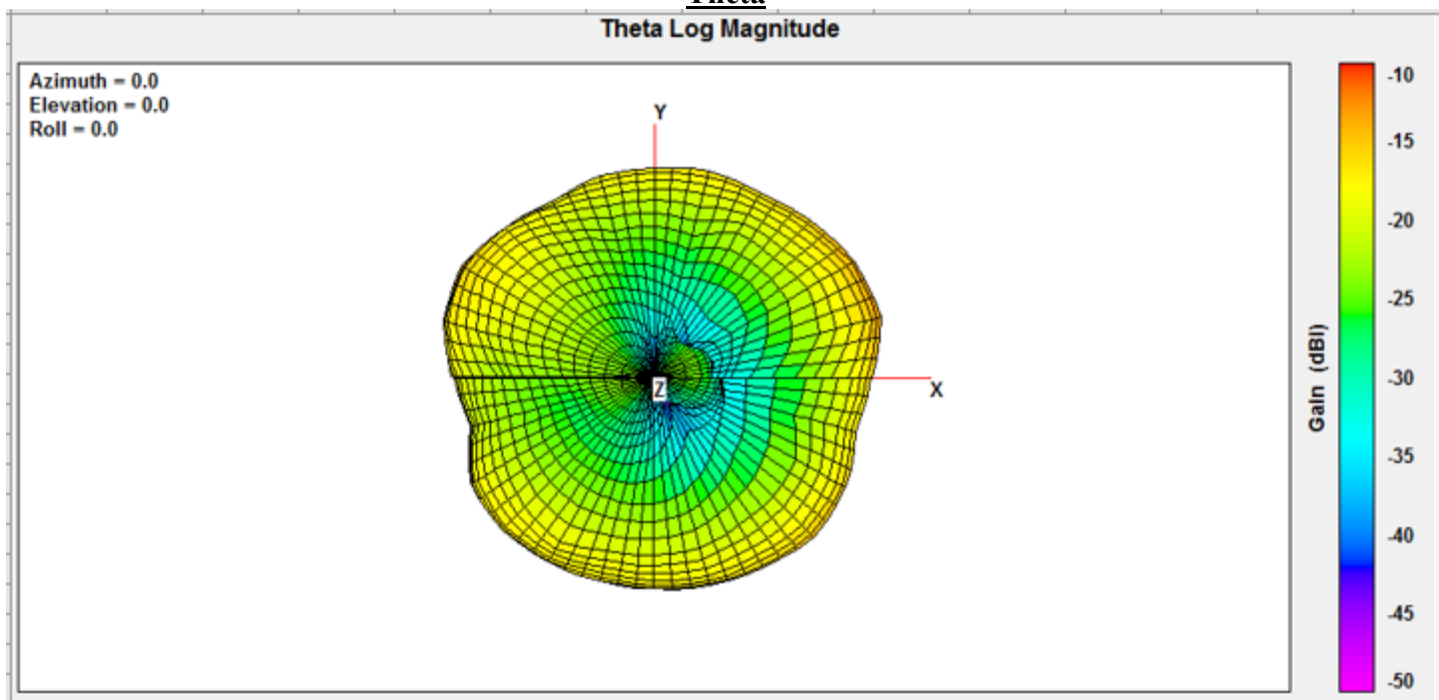


YZ Plane (Phi = 90 deg)



Antenna 2: Right Temple BT/BLE Antenna

Theta



Phi

