

Antenna Report

Model Number: 5NCEAB

Frequency range of operation:

Antenna1:

- Wi-Fi 2.4GHz: 2.4 to 2.83GHz

Antenna Type:

Planar Inverted-F Antenna - PIFA

Antenna Gain:

Frequency	Peak Gain (dBi)
	Ant1
	PIFA
2400-2500MHz	2.5

Antenna Gain Measurement:

Measurement Test Method:

Center antenna within the housing in the chamber. With the pigtail on -y axis (Φ 270°) passive antenna performance was measured by VNA and OTA chamber system. The measurement was carried out in the configuration representative on how it would be with intended end user.

Test Equipment Used:

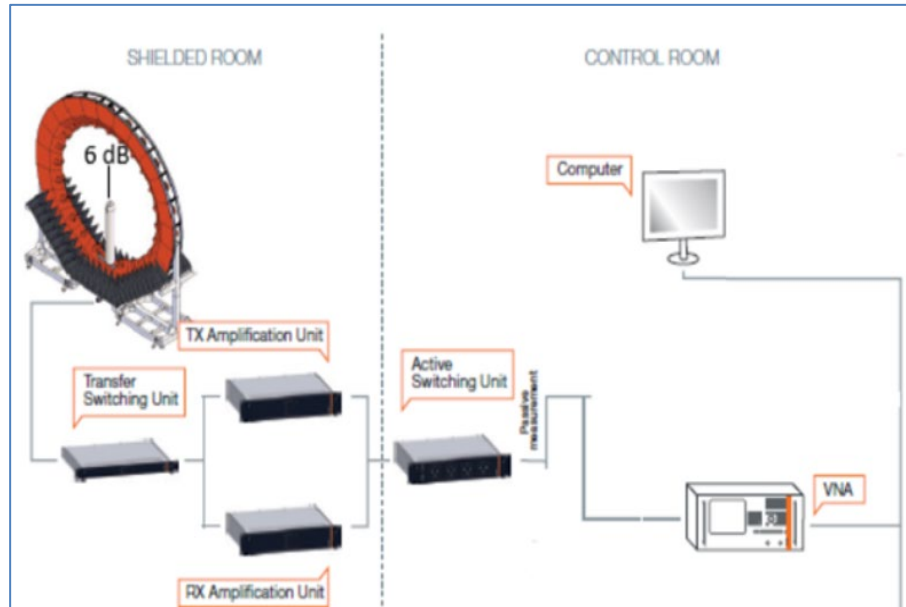
Description	Manufacturer	Model	Serial Number	Cal from	Cal Due
Test Chamber	Satimo-MVG	Star Gate 24	ATL541S	March 2025	-
Vector Network Analyzer	Rohde & Schwarz	ZNB 8	1311.6010K44-102143-Wv		1 year

OTA Engineer: Ryan Cook (Lab126)

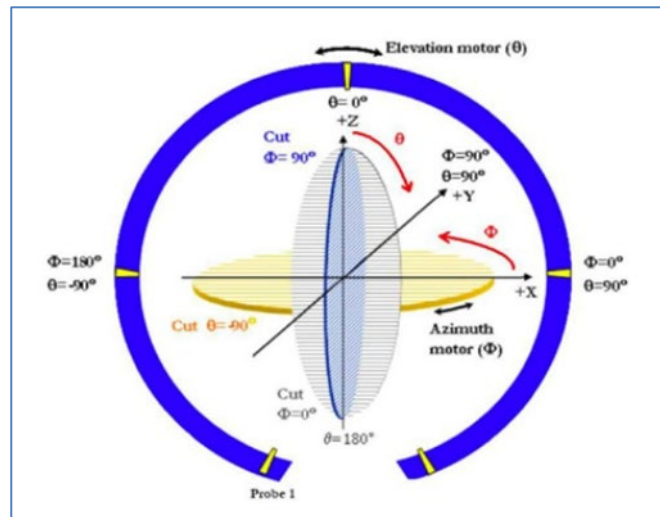
Test Date: 5/6/2025

Test Set-up:

- Below is a block diagram of the antenna measurement setup. Measure the 3D passive performance according to the following coordinate axis.



- Turn table angle definition

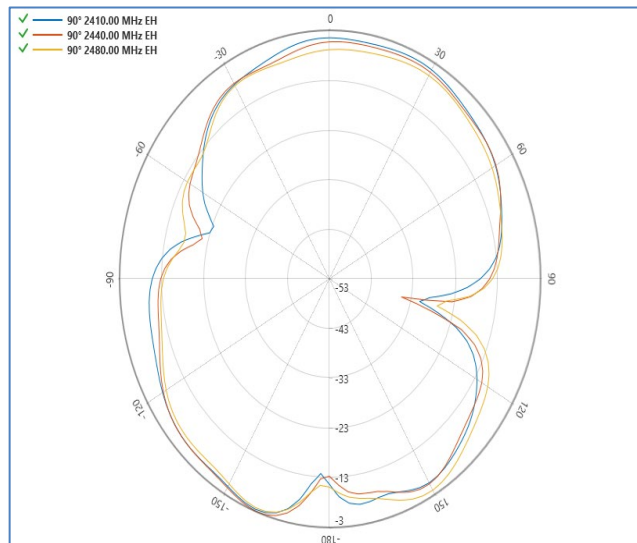


2D radiated pattern

Tx1 antenna:

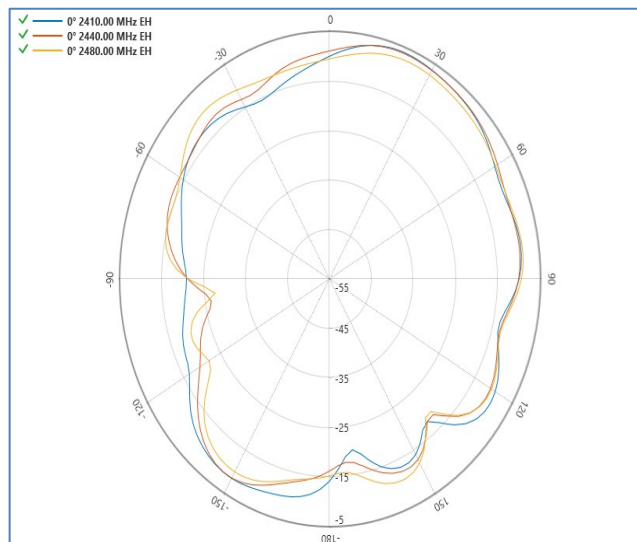
[Gain] Elevation cut (90 deg)

XZ plane



Gain] Elevation cut (0 deg)

XY plane



[Gain] Azimuth cut (90 deg)
YZ plane

