Antenna Report

Model No: BV84J9

FCC ID: 2A8FA-6743

IC: 28954-6743

Frequency Range of operation:

- Wi-Fi: 2.4 to 2.48 GHz and 5.15 to 5.85 GHz
- Bluetooth (2.4 GHz): 2.4 to 2.48 GHz

Antenna Types:

- 2.4 GHz: PIFA (PCB Antenna, ANT1)
- 5 GHz: PIFA (PCB Antenna, ANT2)

Peak Antenna Gain:

Band	Peak Gain (dBi)	
	Ant1	Ant2
	PIFA	PIFA
BT	4.5	-
Wi-Fi at 2.4 GHz	-	4.5
Band 1 (5150-5250 MHz)	-	5
Band 2 (5250-5350 MHz)	-	5
Band 3 (5470-5725 MHz)	-	5
Band 4 (5725-5850 MHz)	-	5

Measurement Test Method:

- Solder pigtails on feeding point of antenna and measure passive antenna performance by VNA and OTA chamber system.

Test Equipment calibration information:

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Base Station	R&S	CMW500	150823	2023/01/05	2024/01/04
WLAN Dynamic Range Extender	ETS-Lindgren	#115195	00154626	N/A	N/A
Switch Control	ETS-Lindgren	EMCenter	00160100	NCR	NCR
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-08	00099205	NCR	NCR
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	NCR	NCR
Medium Duty Holder	ETS-Lindgren	2015	N/A	NCR	NCR
Spectrum Analyzer	R&S	FSP 7	100819	2023/5/15	2024/5/14

Test site information: OTA04-KS in Sporton (Jiangsu China)

Test engineer information: Xing-chi Zhou

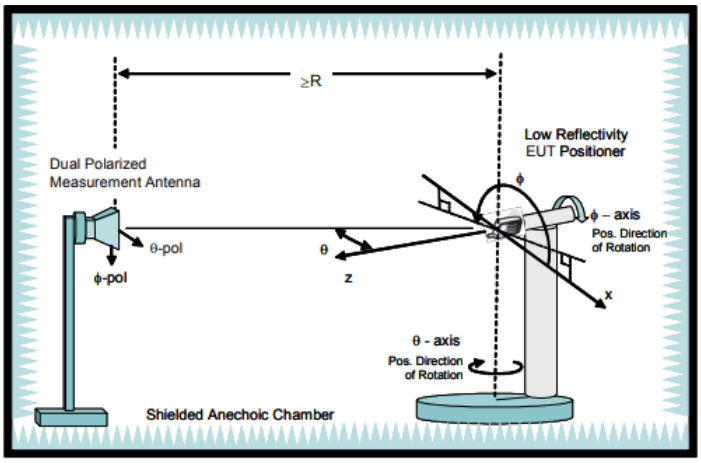
Test Set up (Refer to Antenna Setup Photo file)

1. Set up the device on the tablet jig

2. Set up the jig and device on the chamber turn table and connect the signal cable

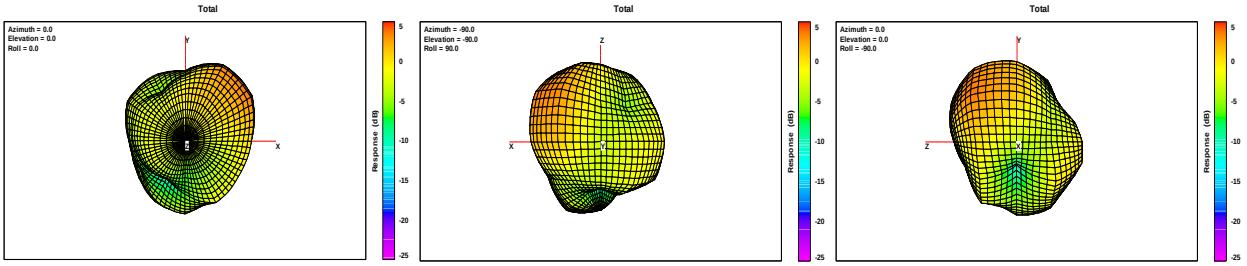
3. Measure the 3D passive performance according to the following coordinate axis

   $\theta = 0$ degree
   $\theta = 90$ degree

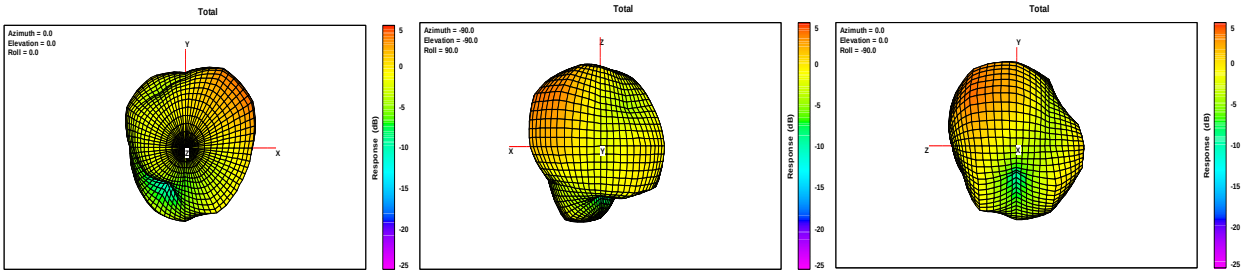


Antenna Pattern

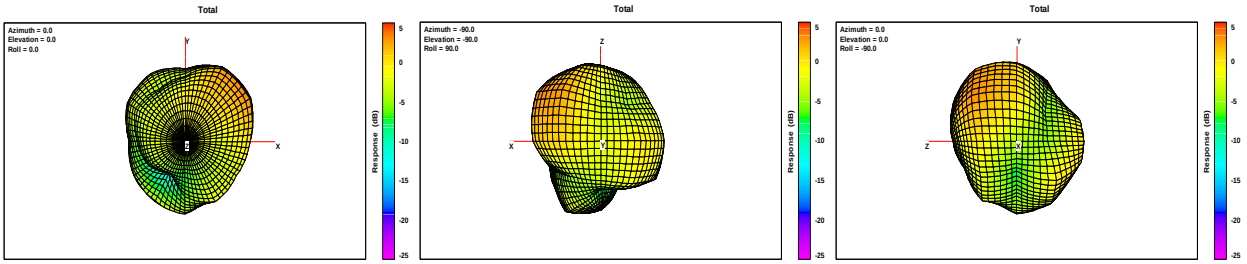
Wifi---2.4G



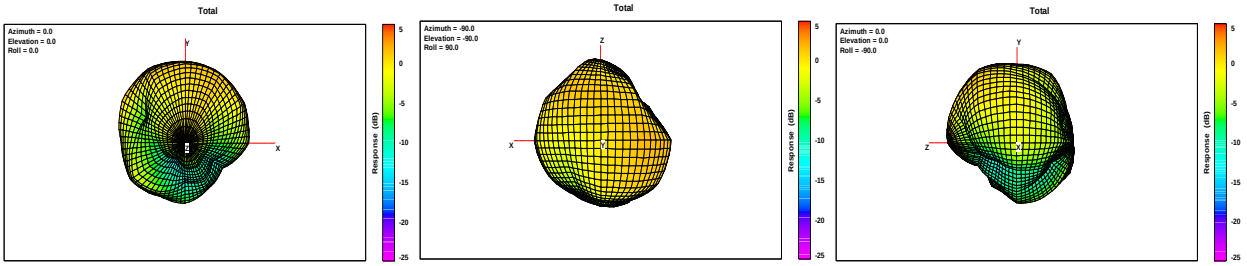
Wifi---2.45G



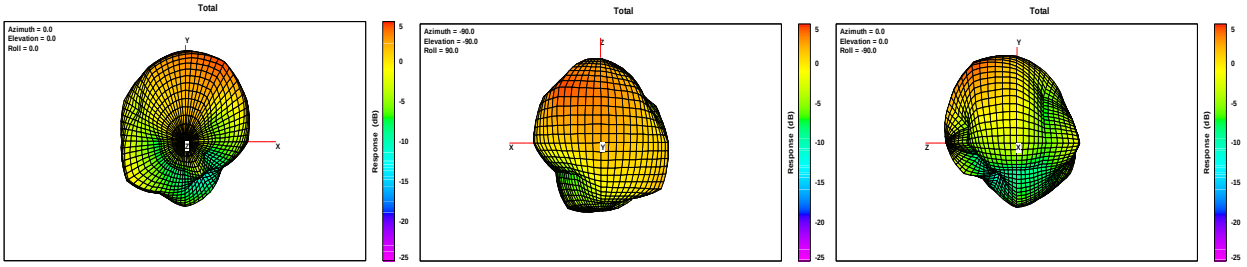
Wifi---2.5G



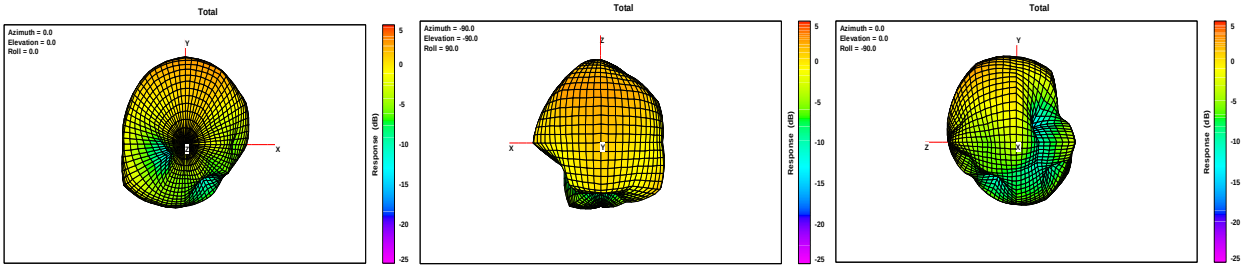
Wifi---5.15G



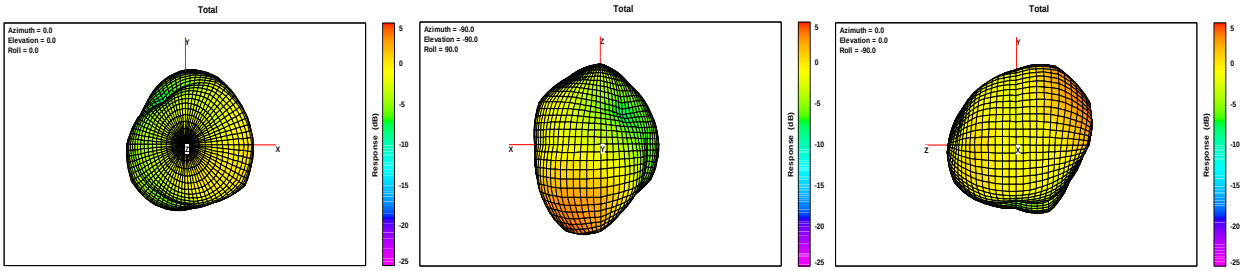
Wifi---5.5G



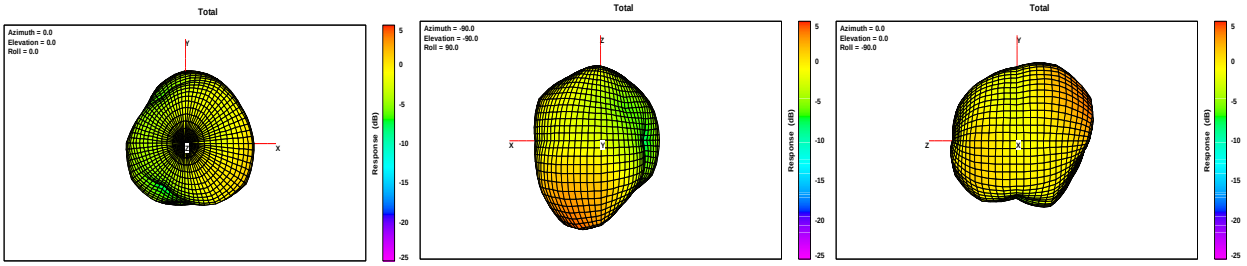
Wifi---5.85G



BT---2.4G



BT---2.45G



BT---2.5G