

Antenna Specification

FCC ID: 2A4DH-1115

IC ID: 24273-1115

Model number: C4E8S3

Frequency range of operation:

Wi-Fi Antenna:

- Wi-Fi: 2.4 to 2.48 GHz and 5.15 to 5.85 GHz

BT Antenna:

- Bluetooth: 2.4 to 2.48 GHz

Antenna Types:

Wi-Fi: PCB PIFA antenna, BT antenna: PCB PIFA antenna

Antenna Gain:

Frequency	Peak Gain (dbi)	
	Wi-Fi (Ant1)	BT (Ant2)
	PIFA	PIFA
2400-2500MHz	4.6	4.0
5150-5250MHz	6	-
5250-5350MHz	6.2	-
5470-5725MHz	6	-
5725-5850MHz	6	-

Measurement Test Method:

Solder pigtailed on feeding point of antenna and measure passive antenna performance by BNA and OTA chamber system.

Test Equipment used:

VNA: R&S ZNB 8

OTA chamber: R&S TS8991

Software for Measurement:

R&S AMS32

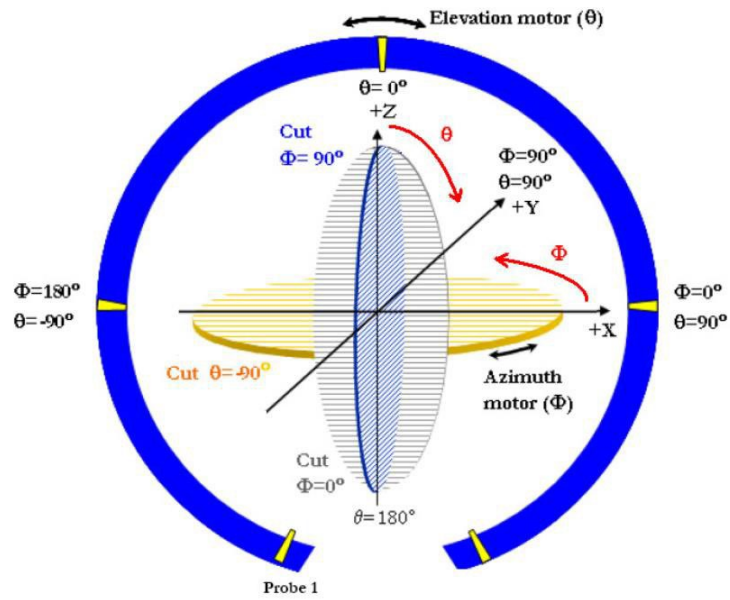
Test Set-up:

1. Set up the device on the turn table and connect the pigtailed to the RF cable.
2. Measure the 3D passive performance according to the following coordinate axis.

Turntable – Phi: 0-165°, step size: 15°, clockwise rotation

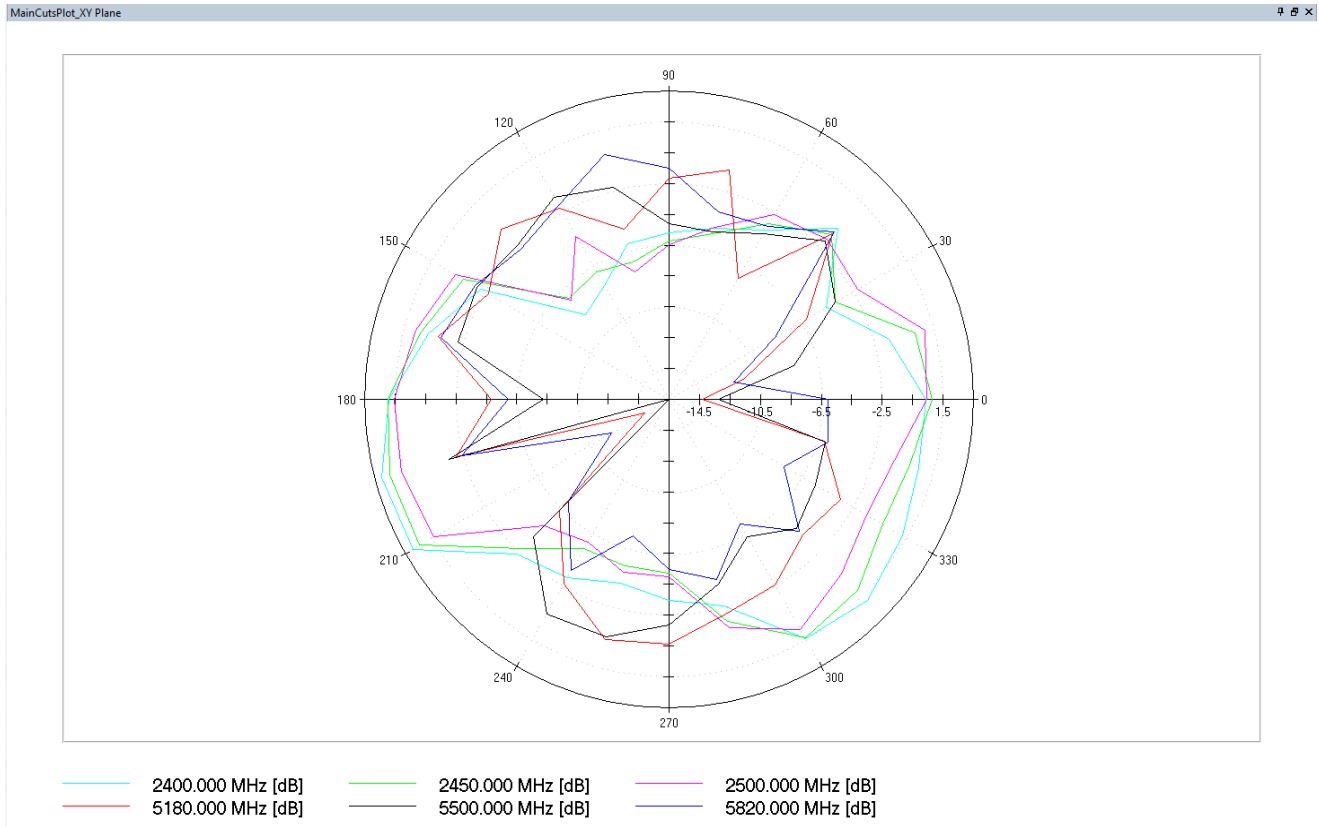
Please see separate test set-up exhibit for setup photographs

Antenna Radiated Pattern Orientation:

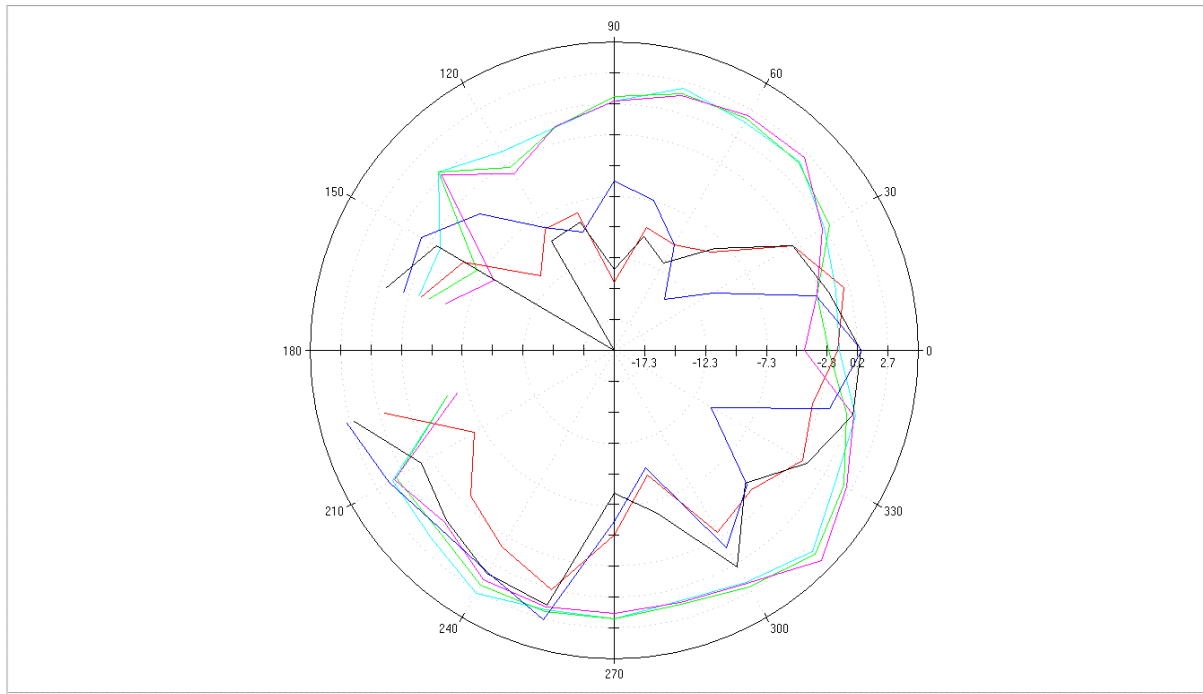


Wi-Fi Antenna 0

WLAN (2400~2500MHz and 5100~5800MHz)

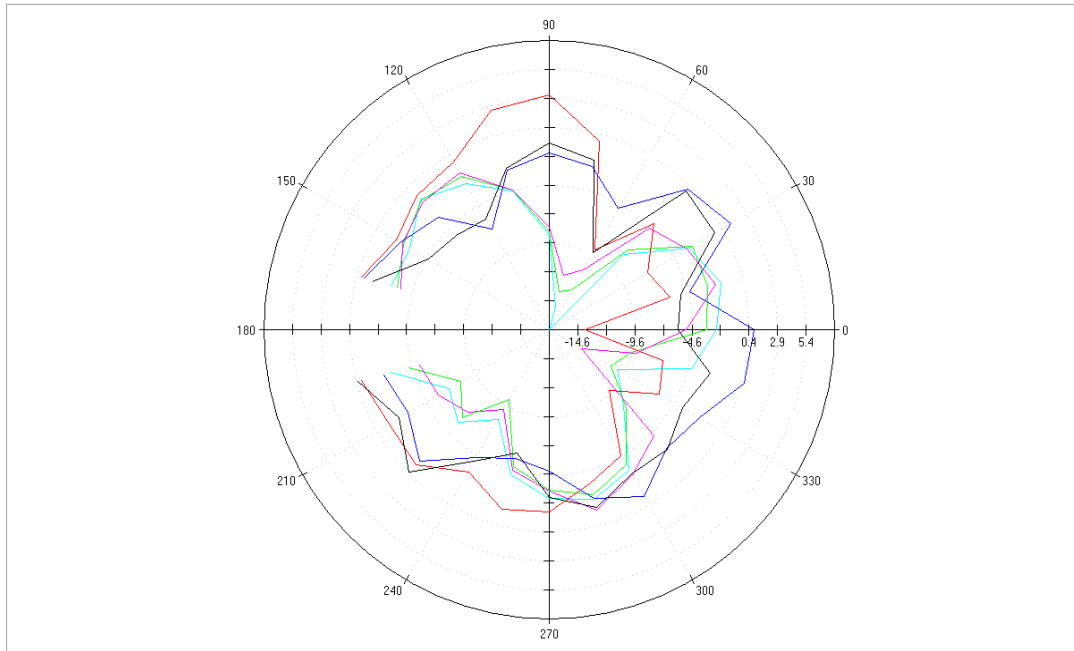


XY plane



- 2400.000 MHz [dB]
- 2450.000 MHz [dB]
- 2500.000 MHz [dB]
- 5180.000 MHz [dB]
- 5500.000 MHz [dB]
- 5820.000 MHz [dB]

XZ plane



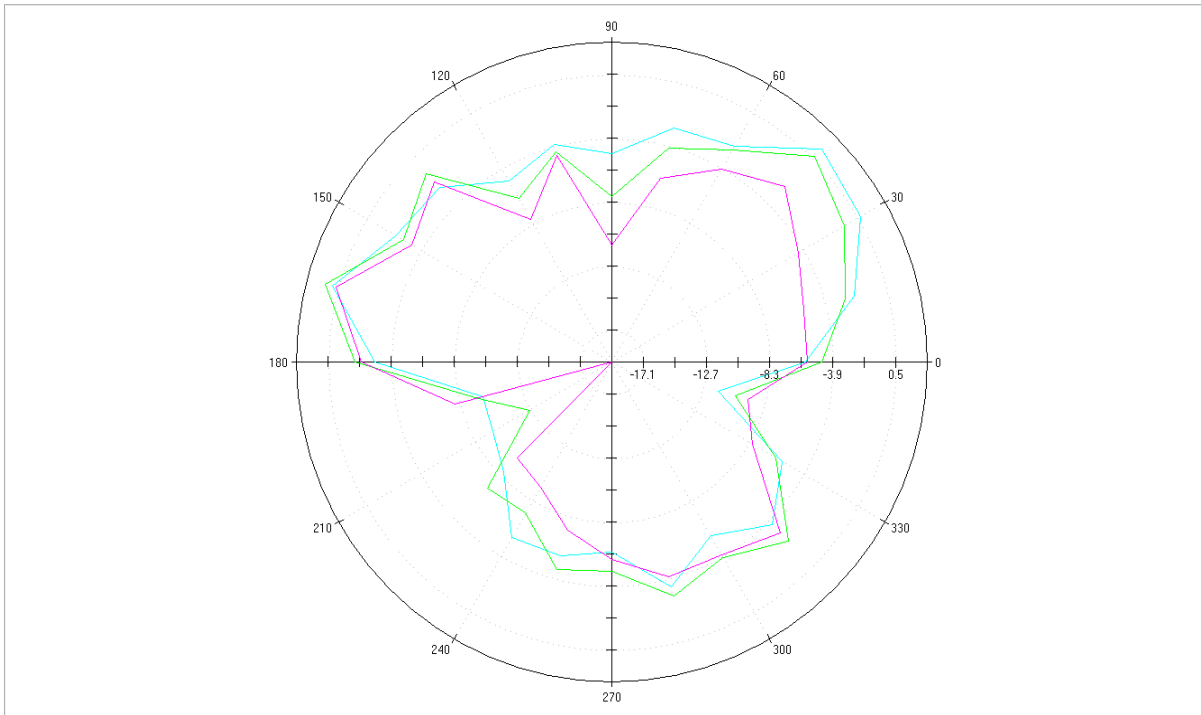
- 2400.000 MHz [dB]
- 2450.000 MHz [dB]
- 2500.000 MHz [dB]
- 5180.000 MHz [dB]
- 5500.000 MHz [dB]
- 5820.000 MHz [dB]

YZ plane

BT Antenna

MainCutsPlot_XY Plane

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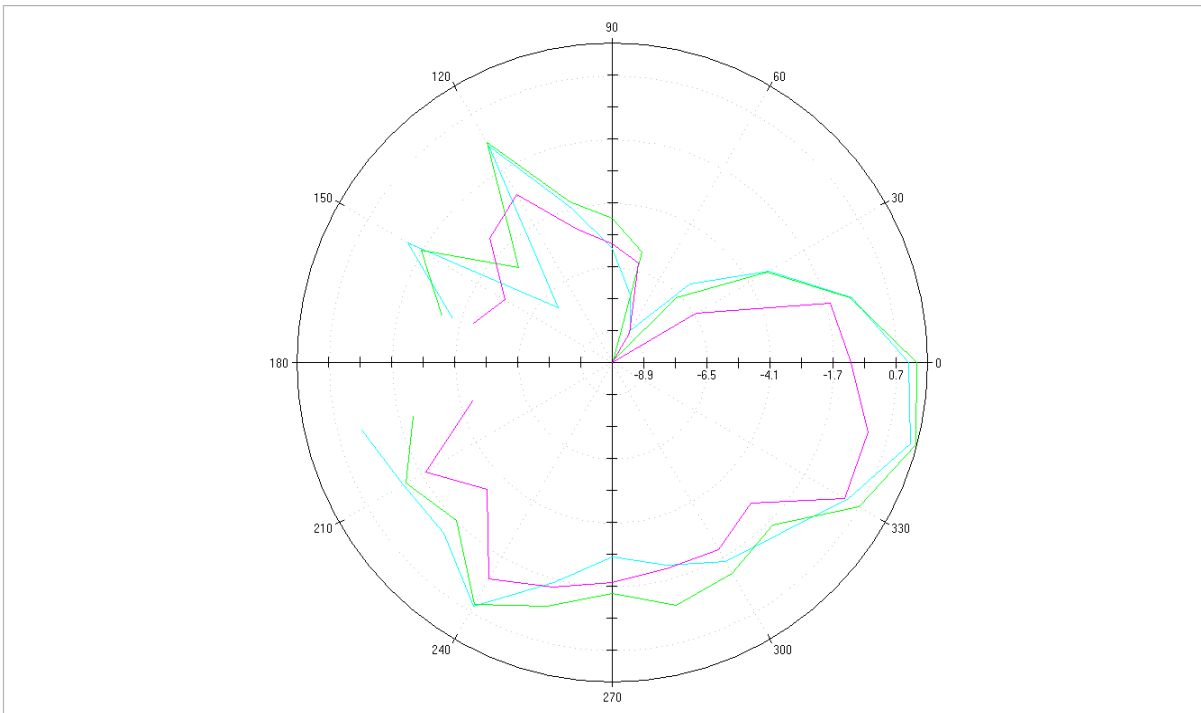


— 2400.000 MHz [dB] — 2450.000 MHz [dB] — 2500.000 MHz [dB]

XY plane

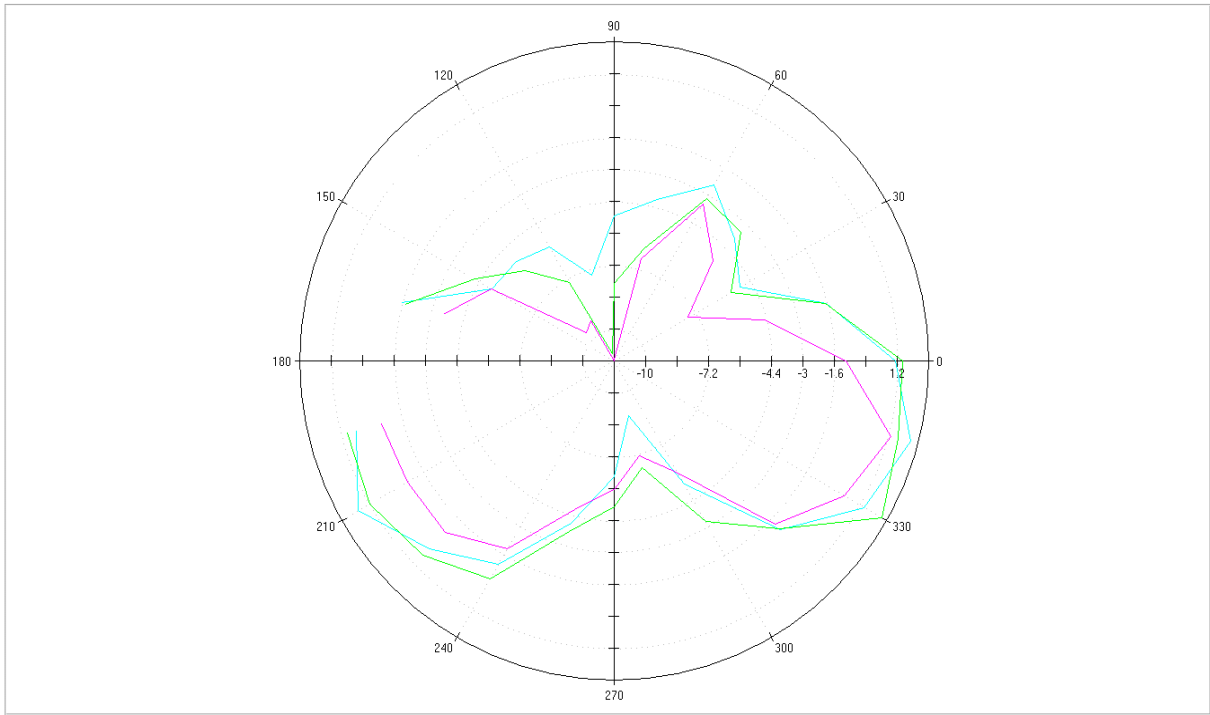
MainCutsPlot_XZ Plane

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— 2400.000 MHz [dB] — 2450.000 MHz [dB] — 2500.000 MHz [dB]

XZ plane



— 2400.000 MHz [dB] — 2450.000 MHz [dB] — 2500.000 MHz [dB]

YZ plane