

Antenna Specifications

FCC ID: 2A4DH-4258

IC ID: 24273-4258

Model Number: TG425K

Frequency range of operation:

Antenna 1:

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

Antenna 2:

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

Antenna type:

BT and Wi-Fi: 2 PIFA antennas

Antenna Gain:

Frequency	Peak Gain (dBi)	
	Ant1	Ant2
	PIFA	PIFA
BT/BLE 2400-2480 MHz	1.5	2.5
Wi-Fi 2400-2480 MHz	1.5	2.5
Wi-Fi 5150-5250 MHz	2	3
Wi-Fi 5250-5350 MHz	1	2
Wi-Fi 5470-5725 MHz	2	3
Wi-Fi 5725-5850 MHz	2	1.5

Lab name:

Sporton International (Kunshan) Inc.

Lab Address:

No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu province, China

Measurement Test Method:

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

Test equipment:

Agilent E5071C

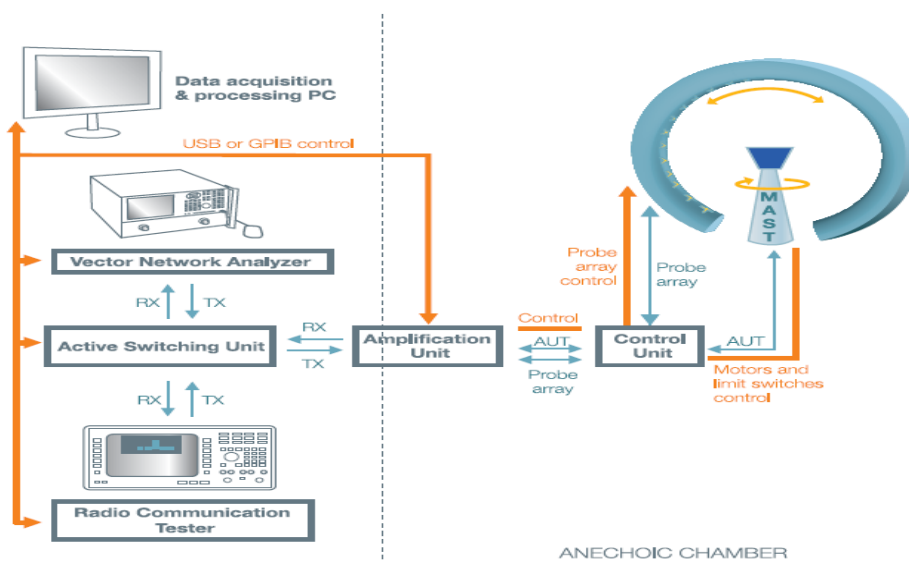
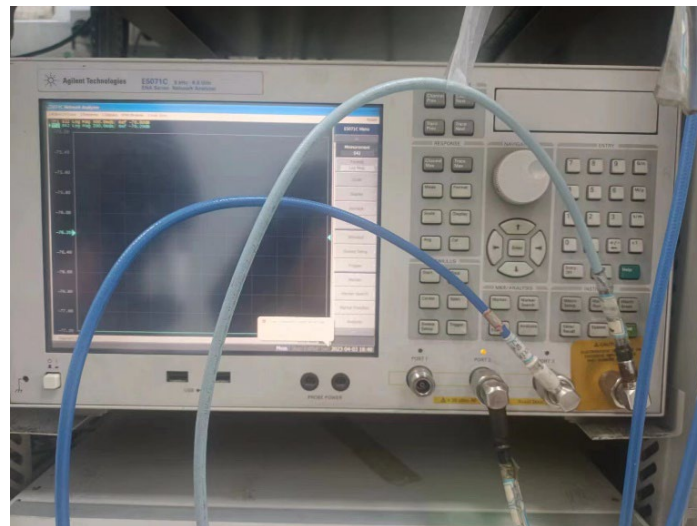
- Calibration due August 15, 2023

OTA Chamber ETS AMS8500

Test engineer:

Xingchi Zhou

Equipment Setup:



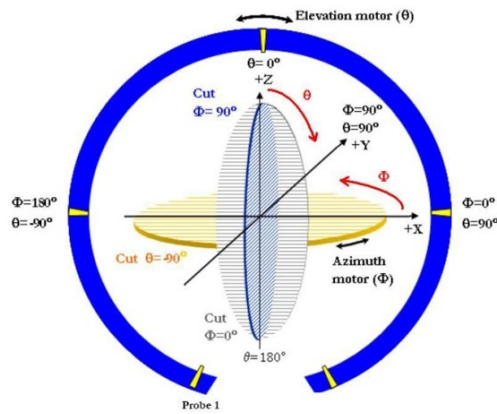
Software used: EMQuest

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.

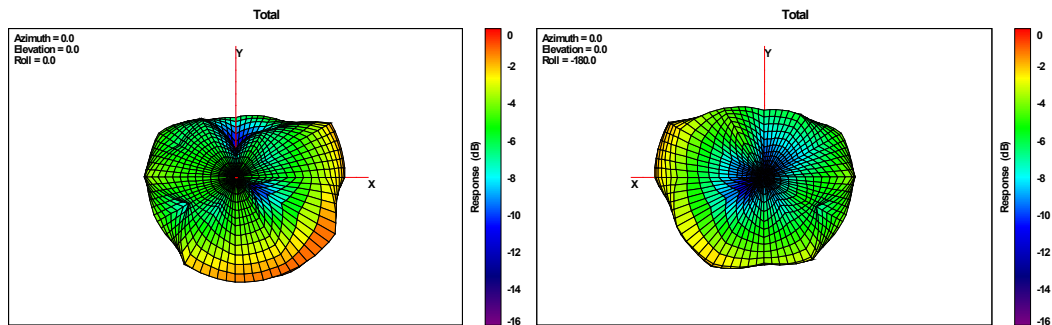
Turntable – Phi: 0-165°, step size: 15°, clockwise rotation

Antenna Radiated Pattern Orientation:

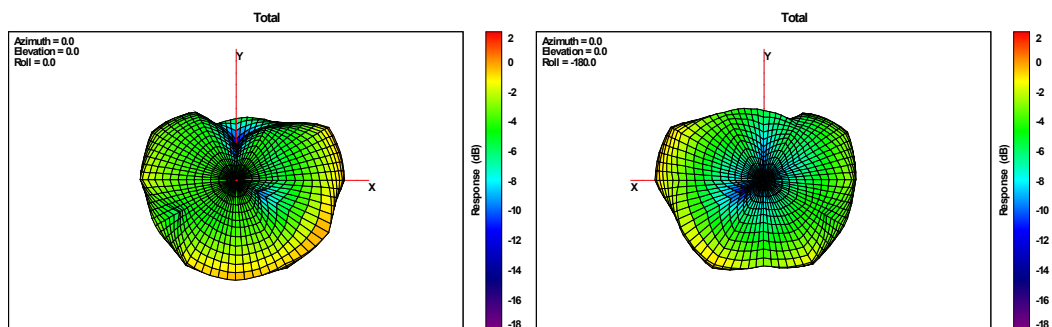


ANT1:

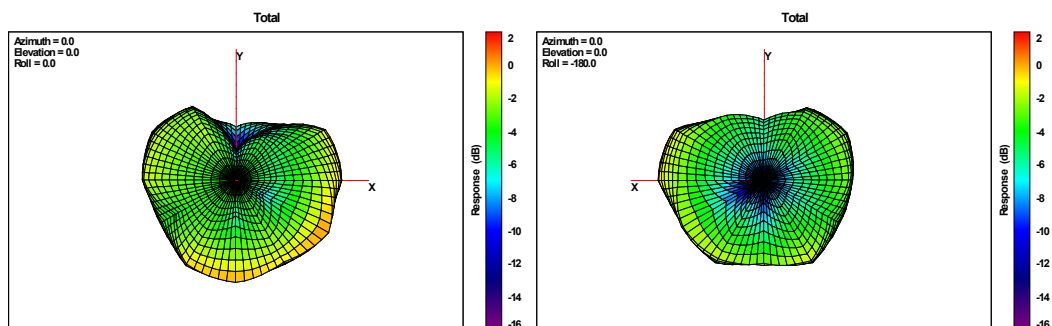
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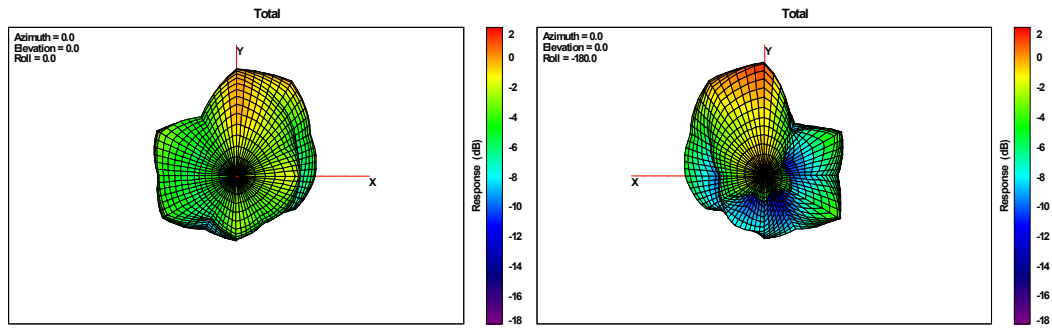
2440



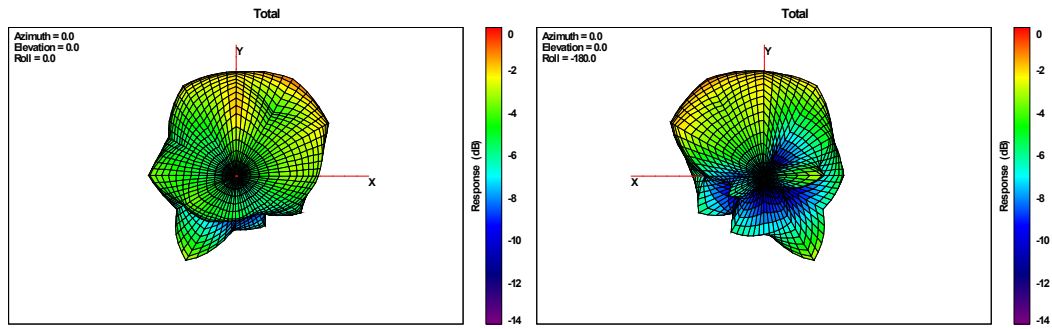
2480



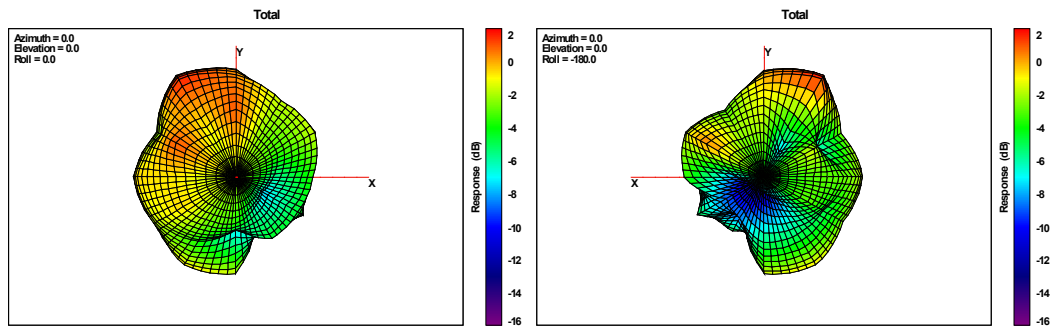
5100



5500

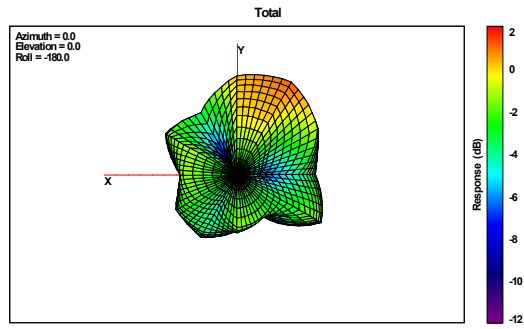
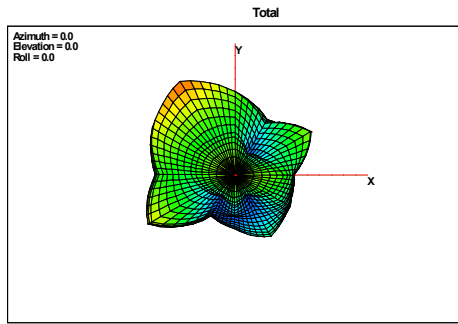


5850

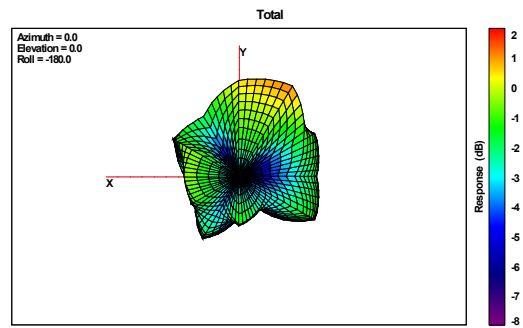
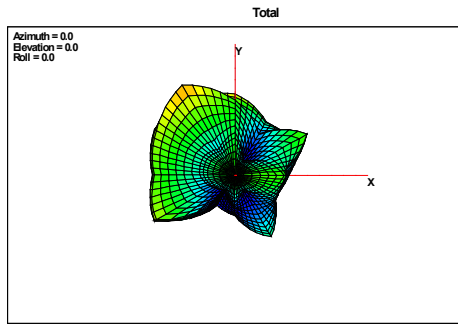


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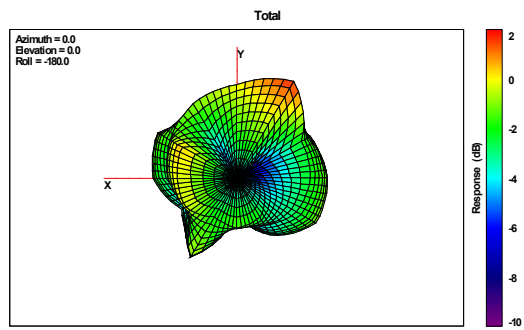
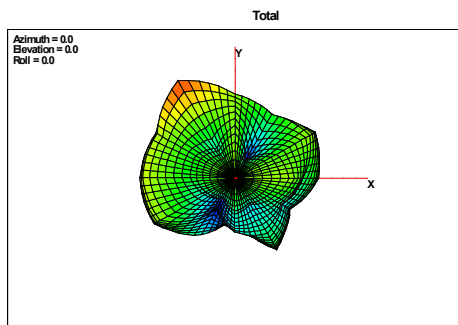
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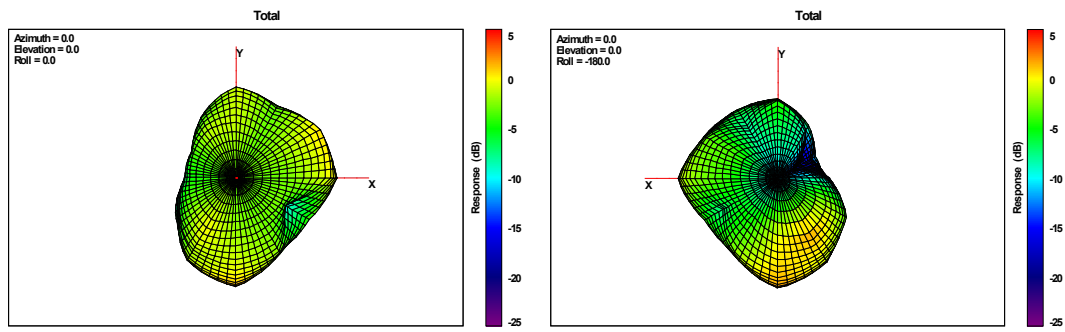
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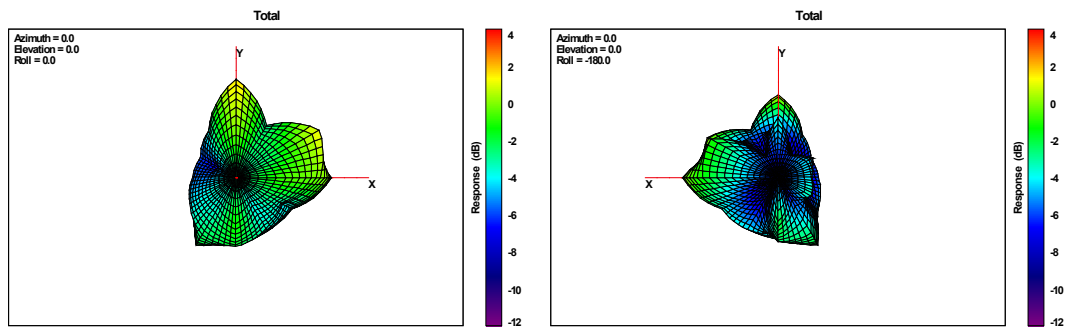
2480



5100



5500



5850

