

Antenna Report

SU8E72

Frequency range and operation

WiFi-0 2G Antenna: 2.412 to 2.472 GHz

WiFi-1 2G Antenna: 2.412 to 2.472 GHz

WiFi-0 5/6G Antenna: 5.18 to 7.115 GHz

WiFi-1 5/6G Antenna: 5.18 to 7.115 GHz

Bluetooth/Zigbee Antenna: 2.402 to 2.484 GHz

Antenna type

WiFi-1_2G + WiFi-1 5G/6G (Antenna 1): LDS Nested Loop antenna + mini coaxial cable

WiFi-0_2G (Antenna 2): LDS Nested Loop antenna + mini coaxial cable

WiFi-0_5G/6G (Antenna 5): LDS PIFA antenna + mini coaxial cable

BT0 (Ant6): LDS IFA antenna + mini coaxial cable

BT1/Zigbee (Ant3): LDS IFA antenna + mini coaxial cable

Antenna Dimensions:

【Refer to Antenna report Appendix.】

Antenna traces

【Refer to Antenna report Appendix.】

Antenna Gain

Band	Wifi 1 (dBi)	Wifi 0 (dBi)	BT 1/Zigbee (dBi)	BT 0 (dBi)
Bluetooth	N/A	N/A	3	3
2.4GHz (2400-2480MHz)	2.5	1	N/A	N/A
5GHz Band I (5150-5250MHz)	4.5	2	N/A	N/A
5GHz Band II-A (5250-5350MHz)	5	3	N/A	N/A
5GHz Band II-C (5470-5725MHz)	5	3	N/A	N/A
5GHz Band III (5725-5850MHz)	4.5	3	N/A	N/A
UNII 5 (5955-6415MHz)	5	4	N/A	N/A
UNII 6 (6435-6515MHz)	4.5	3.5	N/A	N/A
UNII 7 (6535-6875MHz)	4.5	2	N/A	N/A
UNII 8 (6875-7115MHz)	4.5	2	N/A	N/A
		Tx 2 (dBi)	Tx 1 (dBi)	
	Radar	6	3	

Testing location and address: No. 4, Min sheng Street, Tu cheng District, New Taipei City, Taiwan Province

Test Engineer: Gary HG Liou

SW used: EMQuest

Measurement Test method

plug antennas u.fl connector and measure passive antenna performance by VNA and OTA chamber system. And the measurement was done in devices level.

Test Equipment used:

1. VNA: KEYSIGHT E5071C
2. OTA chamber: ETS LINDGREN, AMS-8923-142-G

Antenna / Equipment Calibration:

Calibration date: 2025/12/01

Next calibration date: 2026/03/02

Test Date:

2026/02/03

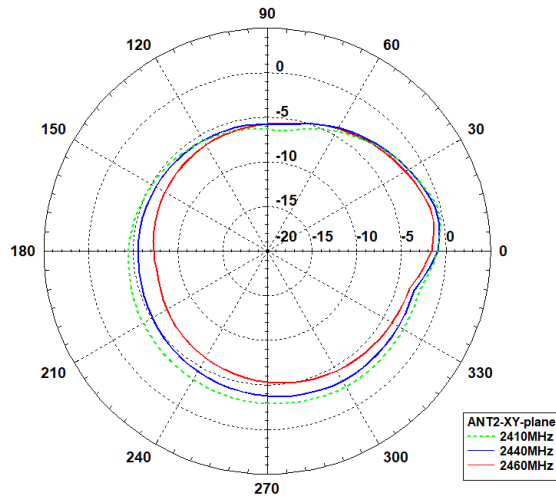
Test Setup Photos:

【Refer to Antenna report Appendix.】

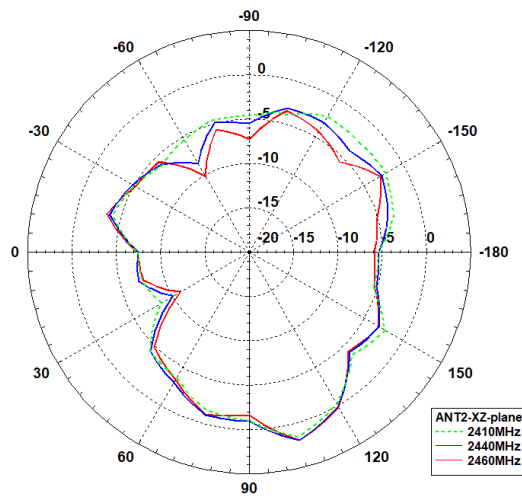
2D RADIATION PATTERN (Free Space)

WiFi-O_2G Antenna

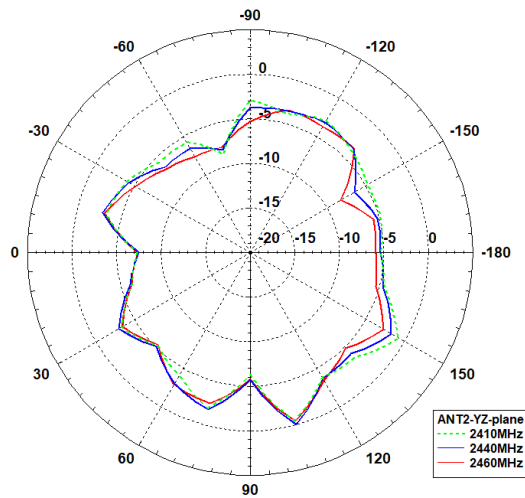
XY plane



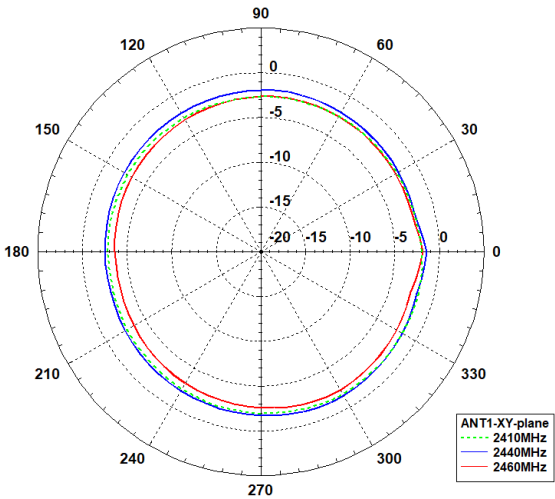
XZ plane



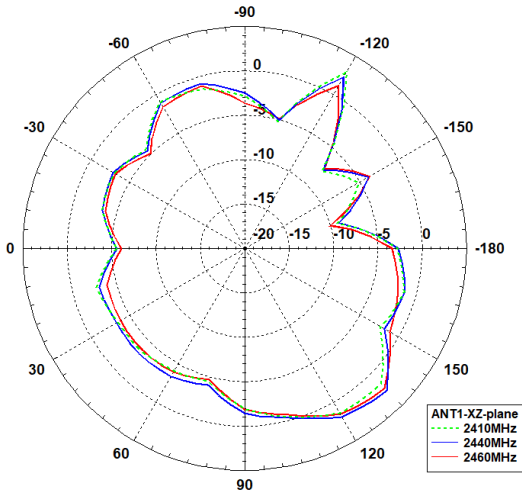
YZ plane



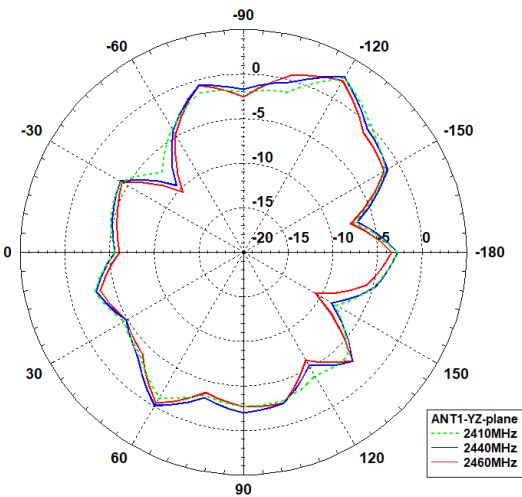
WiFi-1_2G Antenna
XY plane



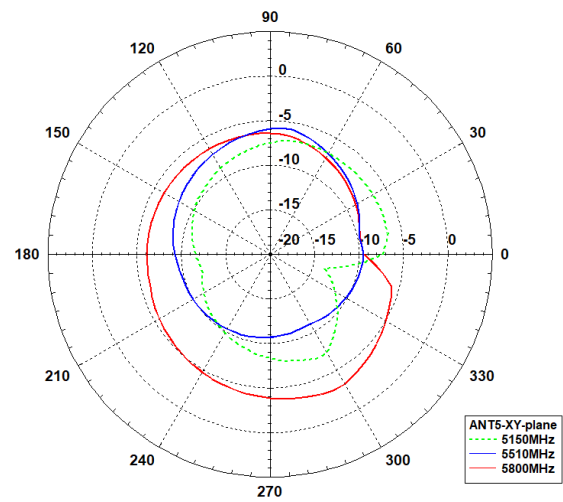
XZ plane



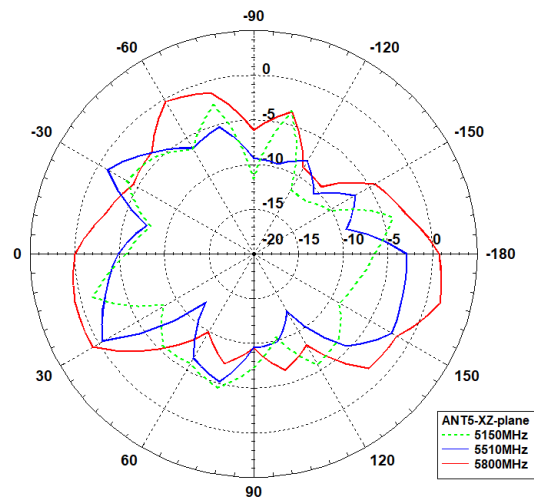
YZ plane



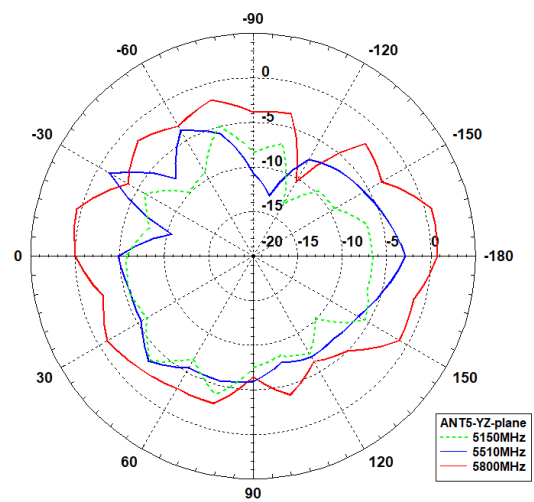
WiFi-0_5G Antenna
XY plane



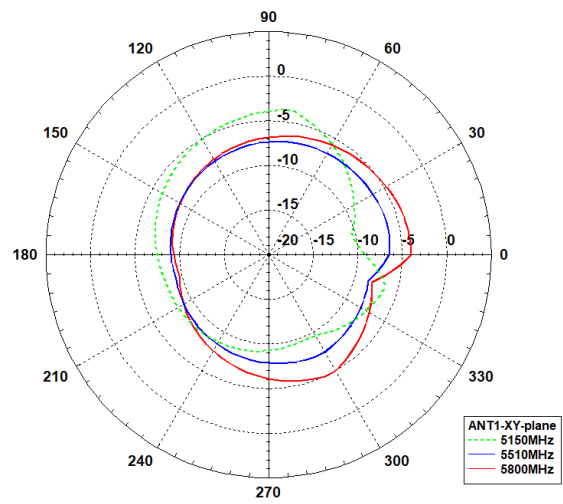
XZ plane



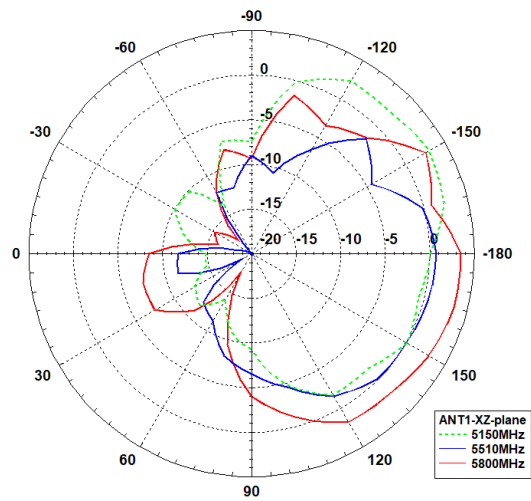
YZ plane



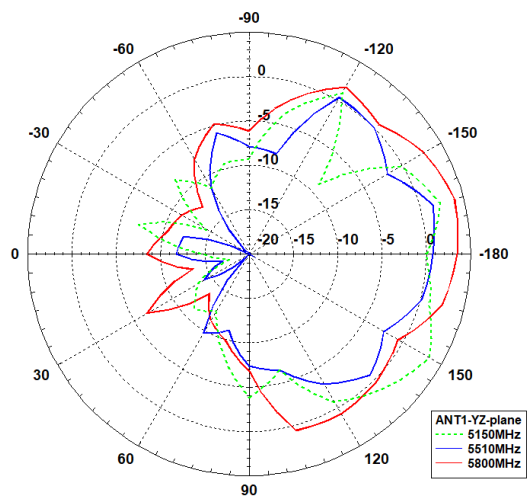
WiFi-1_5G Antenna
XY plane



XZ plane

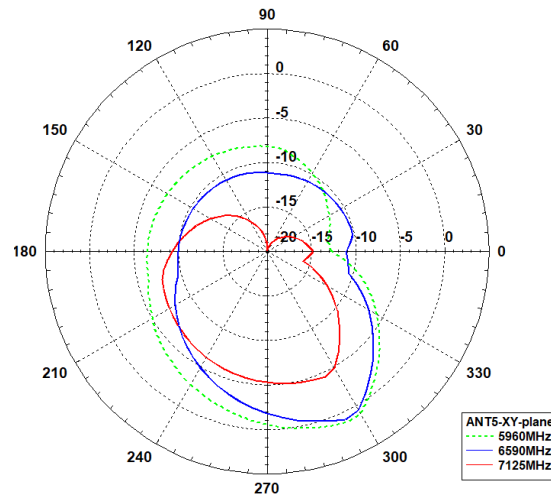


YZ plane

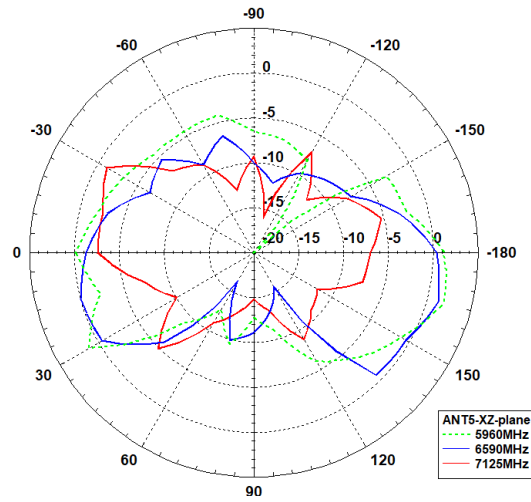


WiFi-0_6G Antenna

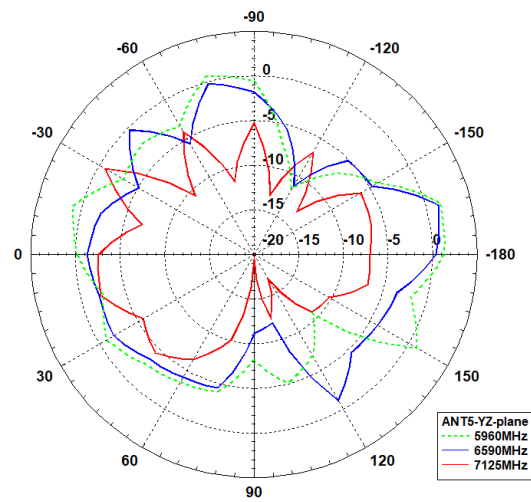
XY plane



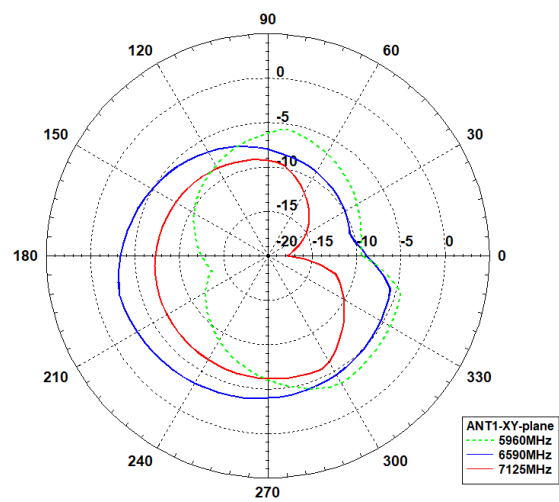
XZ plane



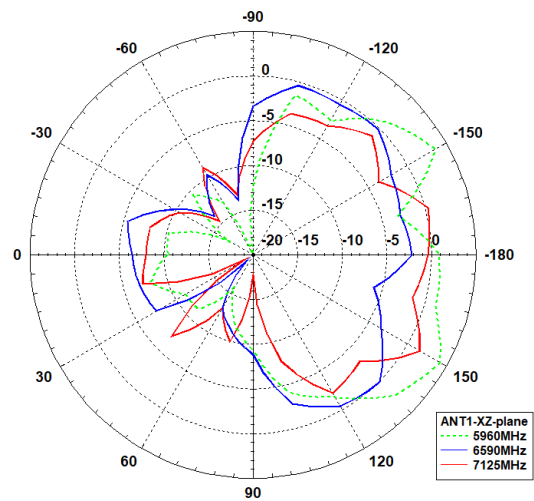
YZ plane



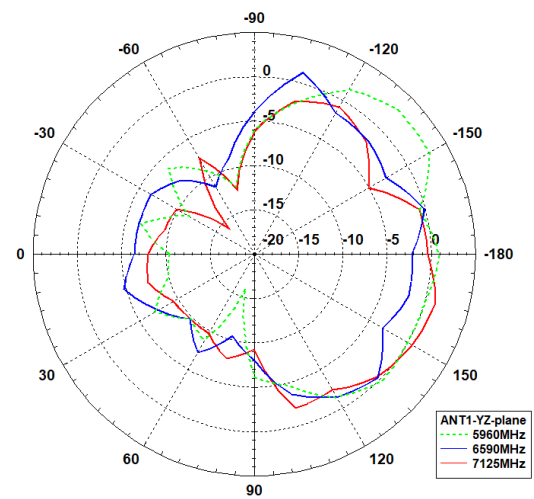
WiFi-1_6G Antenna
XY plane



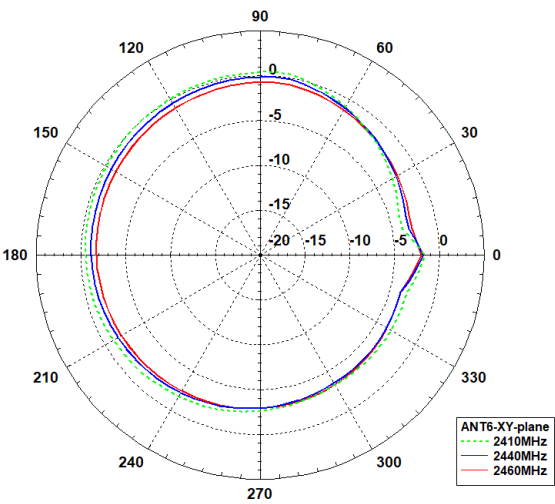
XZ plane



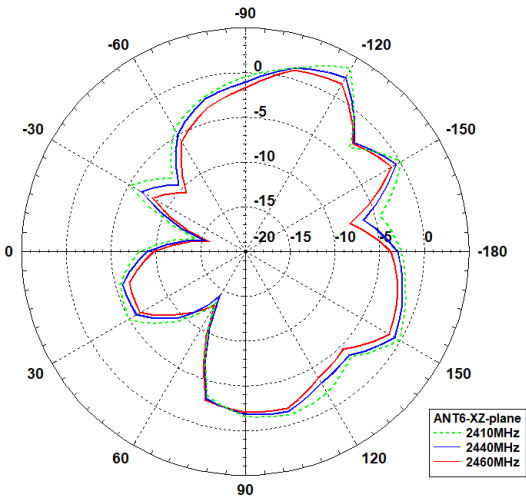
YZ plane



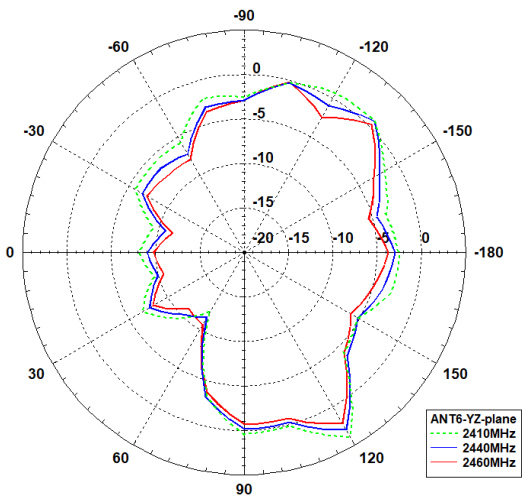
BT-Ant0 Antenna
XY plane



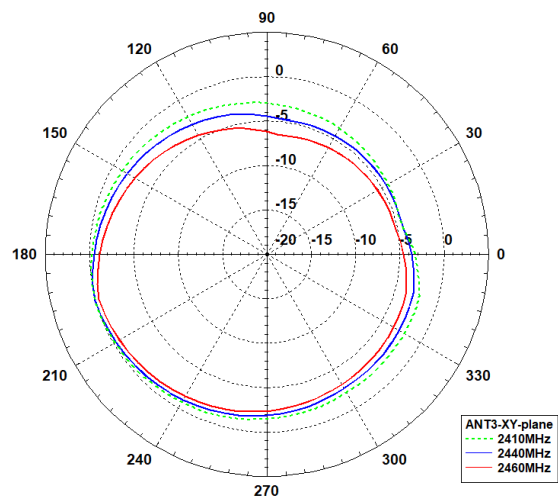
XZ plane



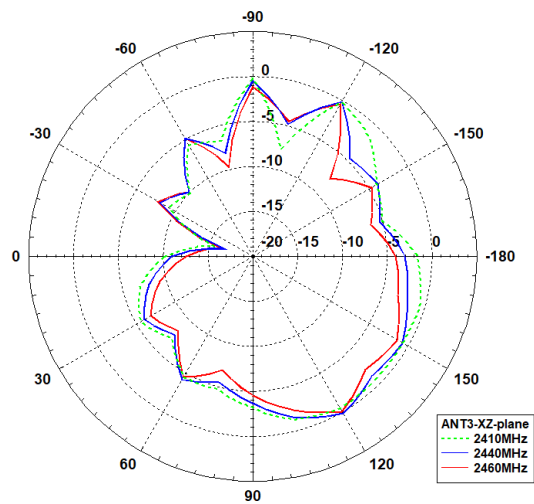
YZ plane



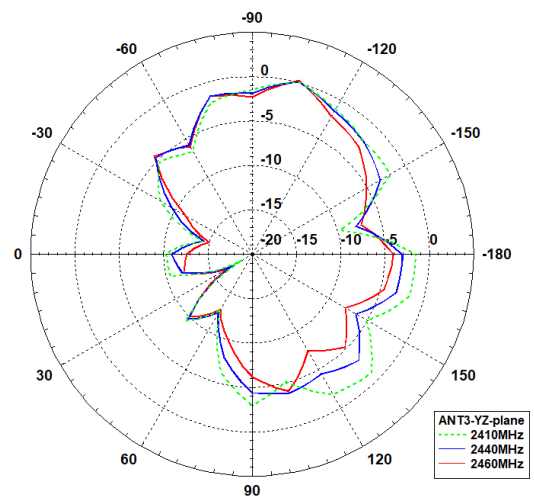
BT-Ant1 Antenna
XY plane



XZ plane

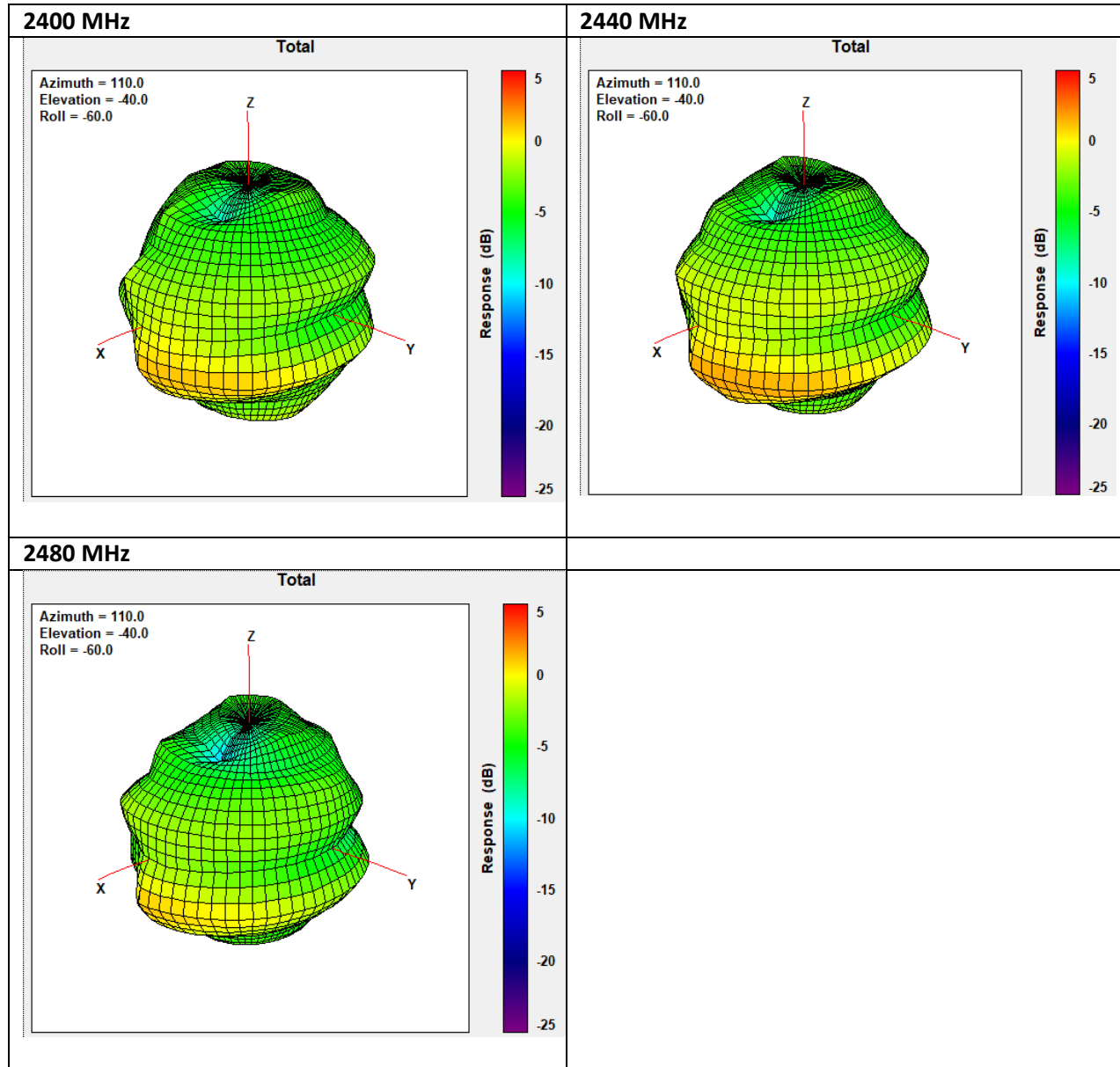


YZ plane

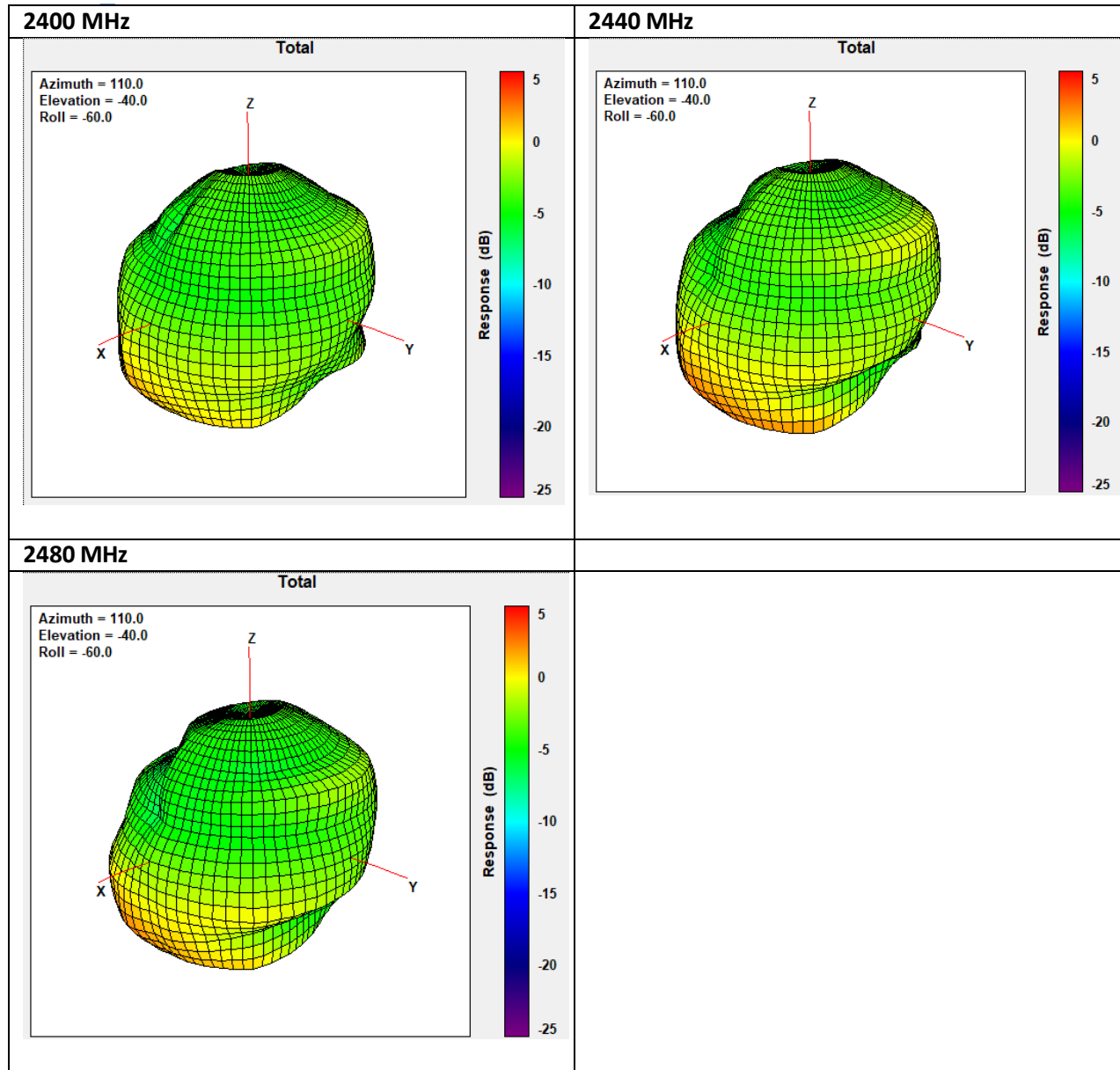


3D RADIATION PATTERN (FS)

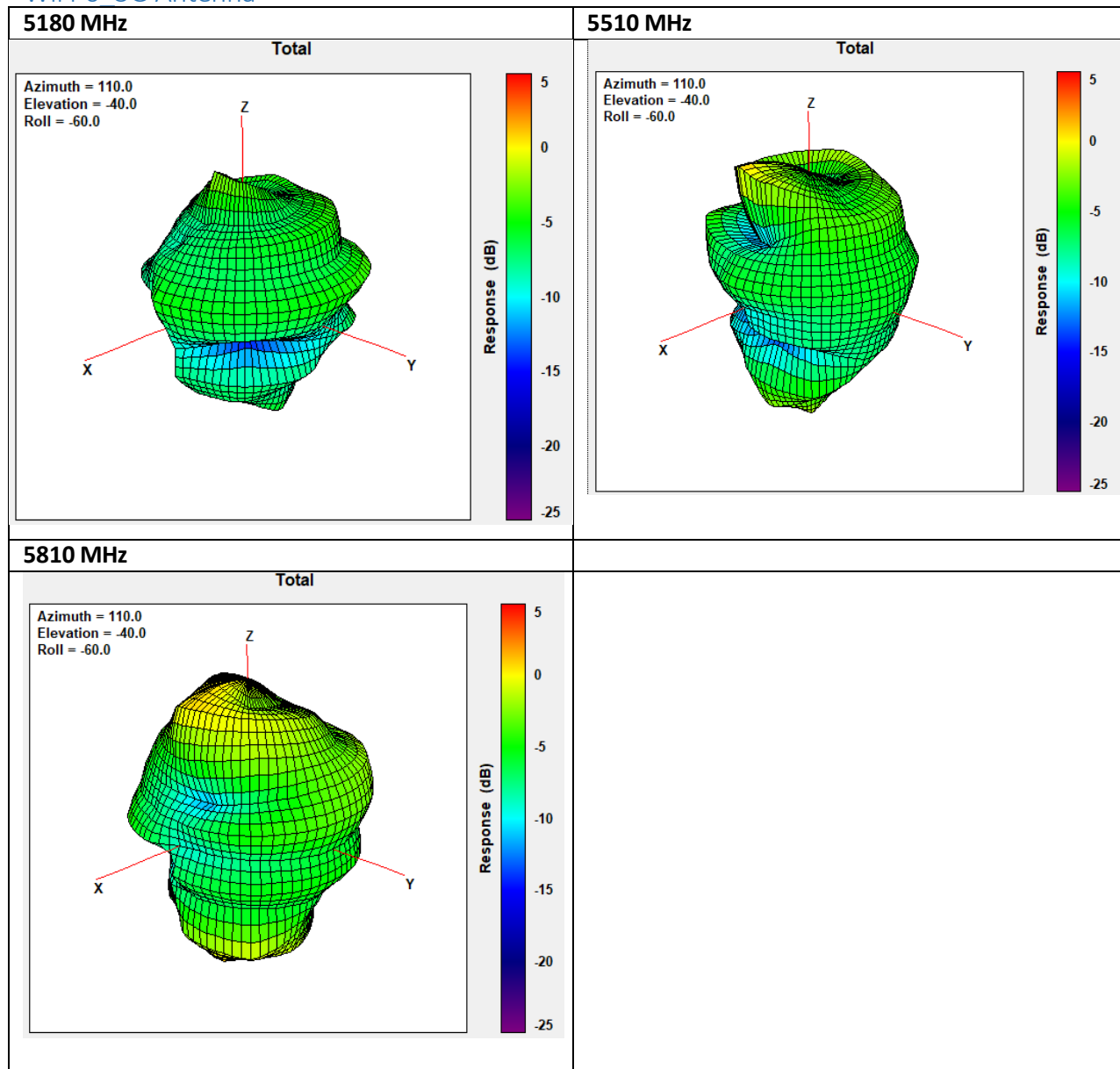
WiFi-0_2G Antenna



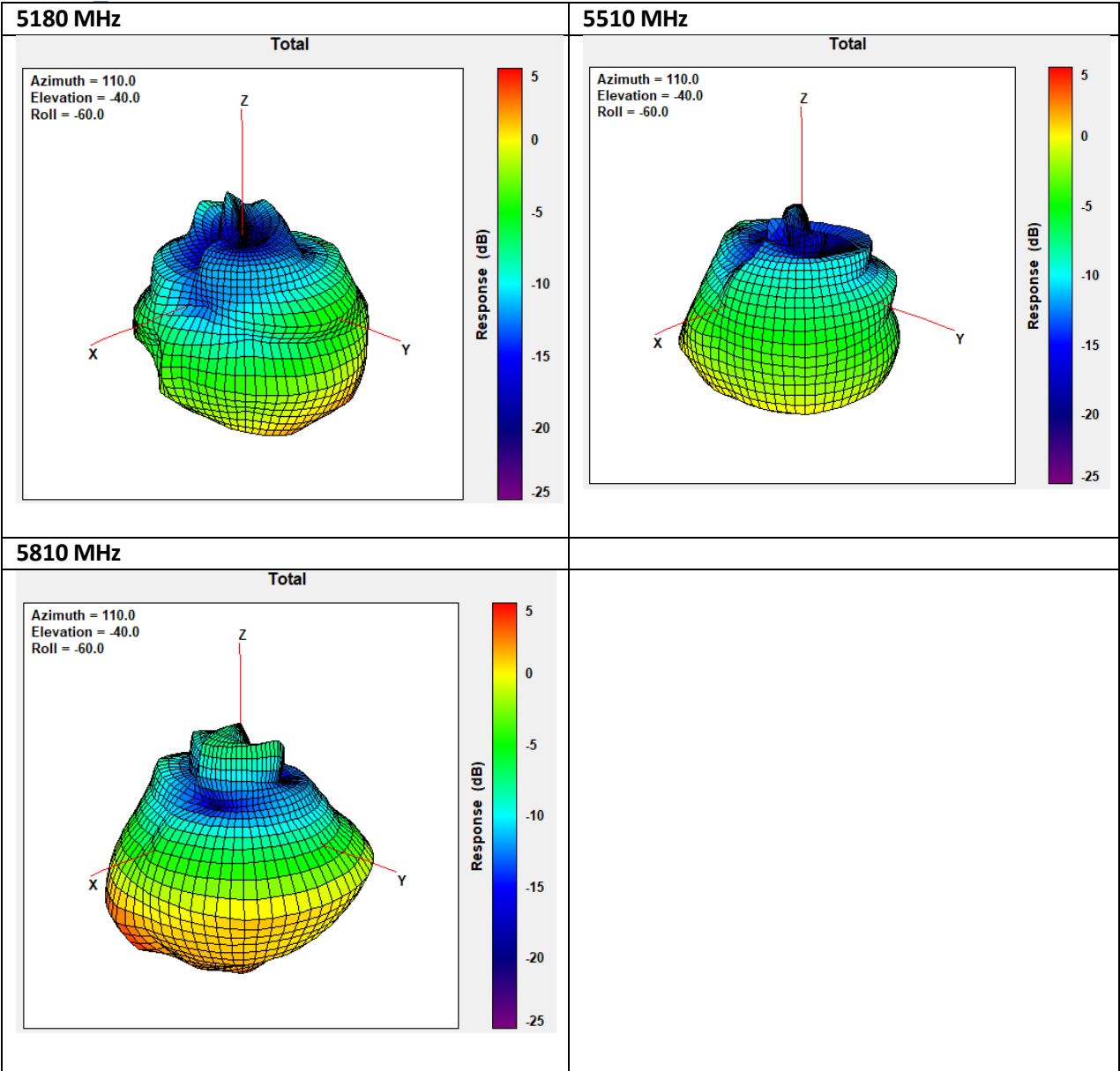
WiFi-1 2G Antenna



WiFi-0 5G Antenna

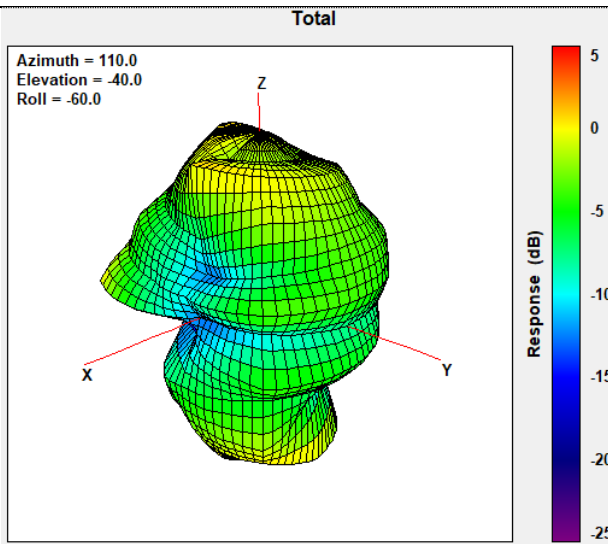


WiFi-1 5G Antenna

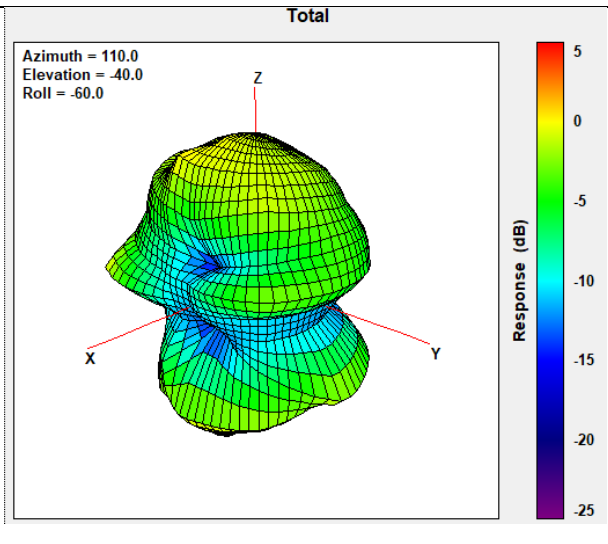


WiFi-0 6G Antenna

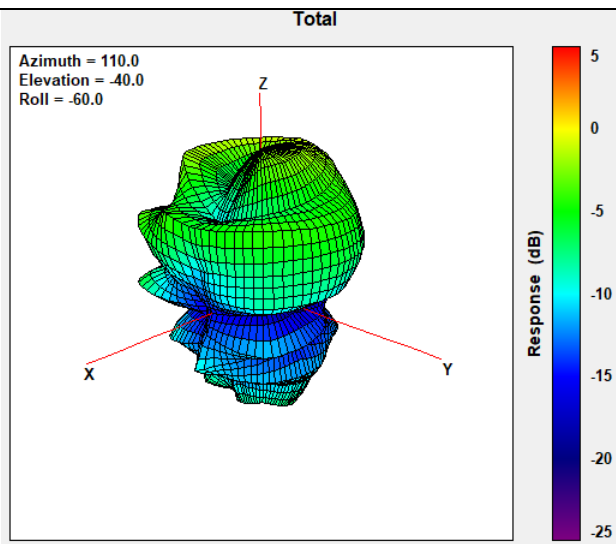
5960 MHz



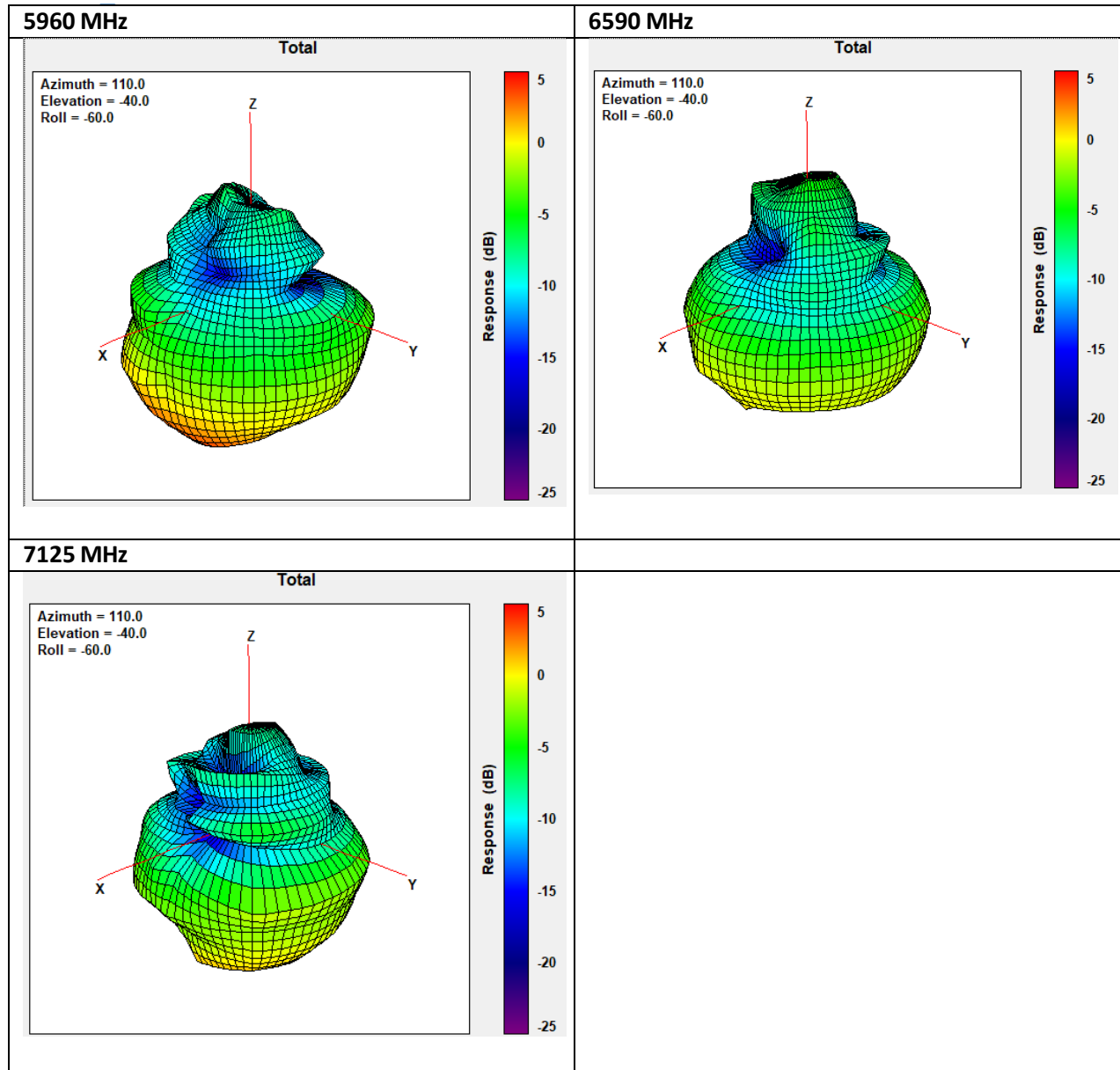
6590 MHz



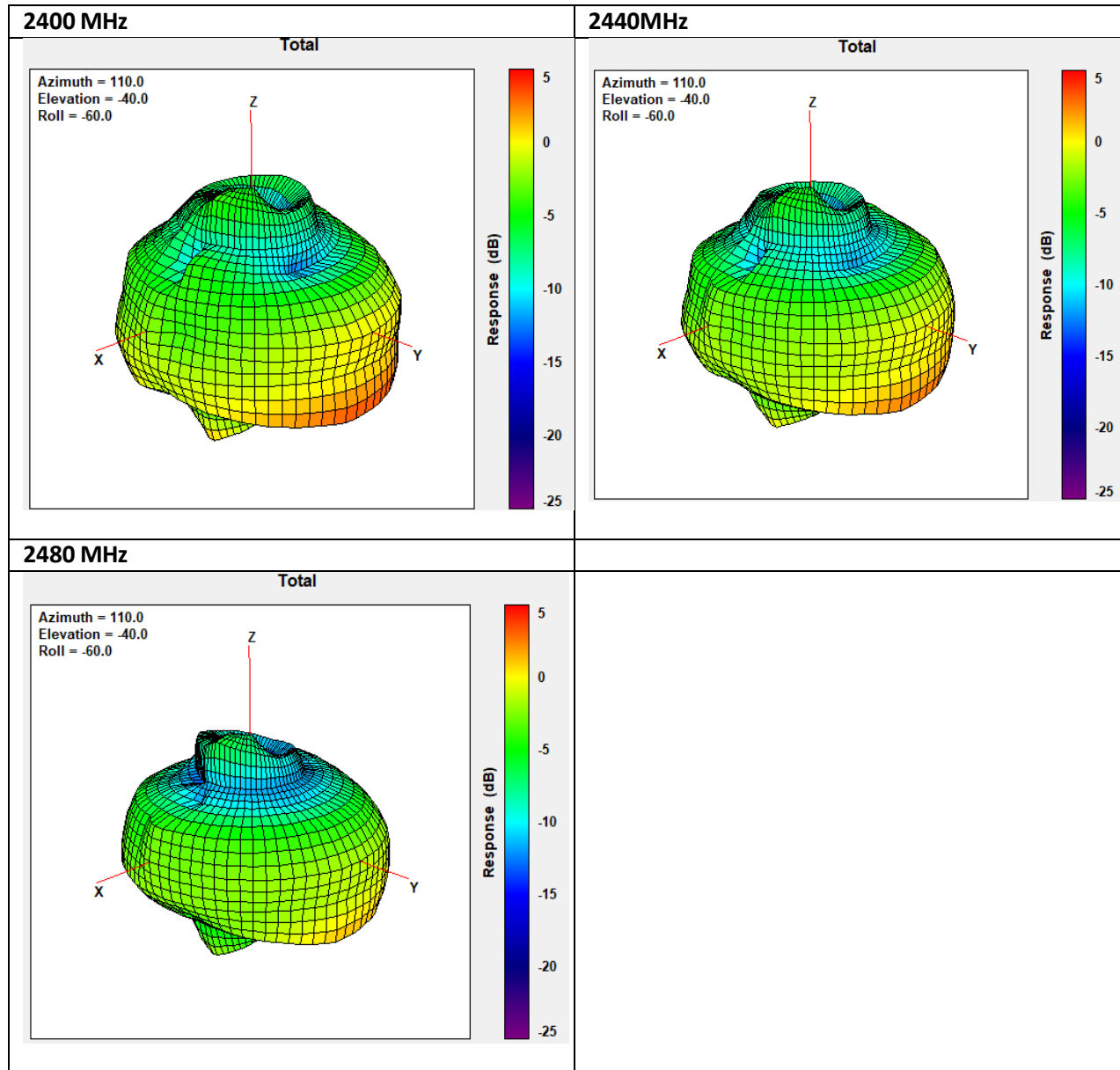
7125 MHz



WiFi-1 6G Antenna

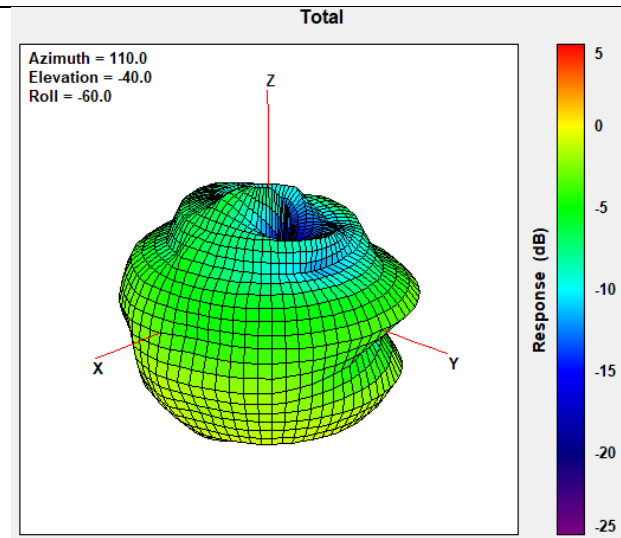


BT-Ant0 Antenna

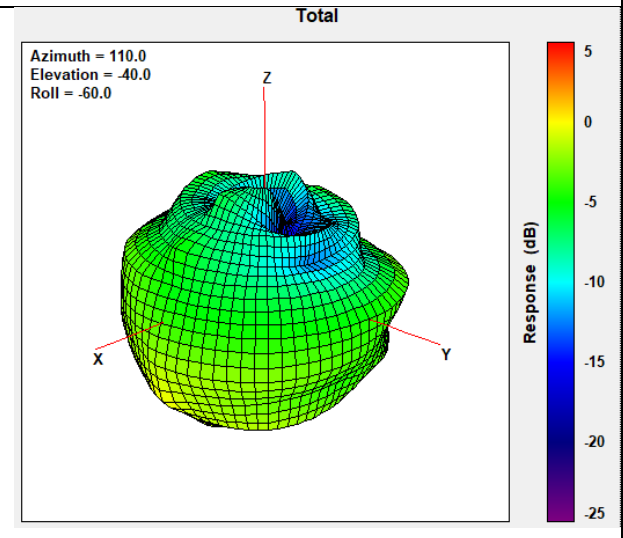


BT-Ant1 Antenna

2400 MHz



2440MHz



2480 MHz

