

ANTENNA GAIN / PATTERN TEST REPORT

Antenna Type: Inverted-F Antenna

Issue Date: March 12, 2025

FCC ID APYHRO00336

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2.1 Antenna Photos

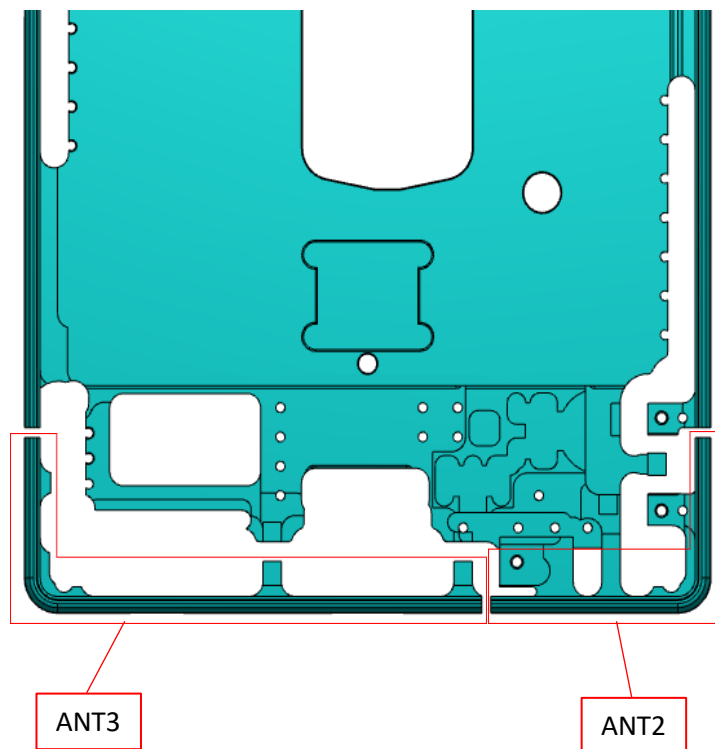
2.2 Antenna Gain

2.3 Antenna Pattern

Cellular

1.1 Antenna Photos

Figure 1



Cellular

1.2 Antenna Gain

		ANT3			ANT2
Frequency	Plane	707.4	709.9	836.4	1870
Peak Gain	XY	-4.1	-3.6	-3.9	-4.8
	YZ	-4.2	-3.8	-3.2	-6.5
	XZ	-5.5	-4.9	-5.4	-1.9
Avg. Gain	XY	-5.4	-4.8	-6.2	-8.7
	YZ	-8.6	-8.2	-7.8	-11.4
	XZ	-8.9	-8.3	-8.5	-5.9

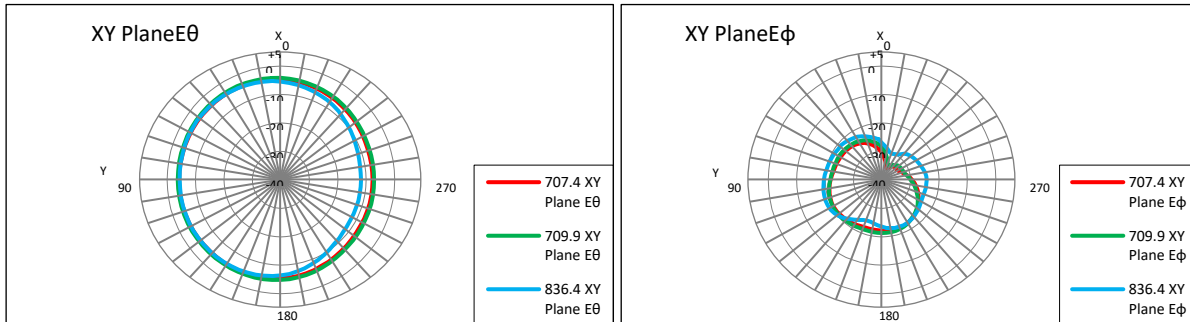
Unit [dBi]

Cellular

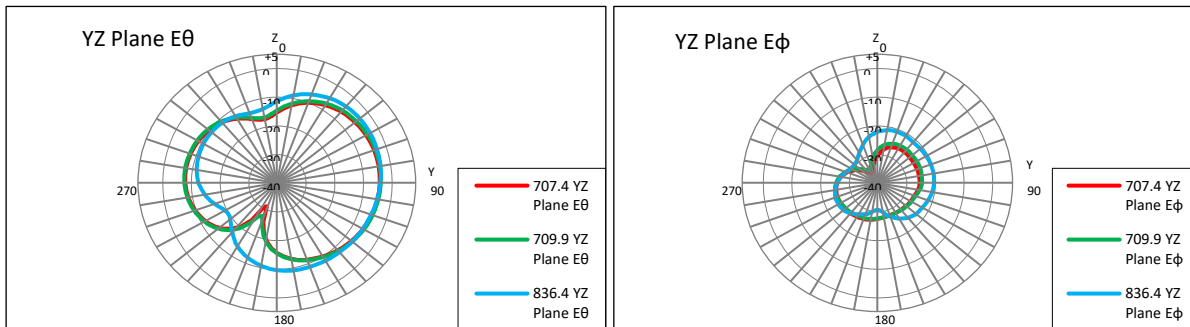
1.3 Antenna Pattern

ANT3_707.4/709.9/836.4MHz

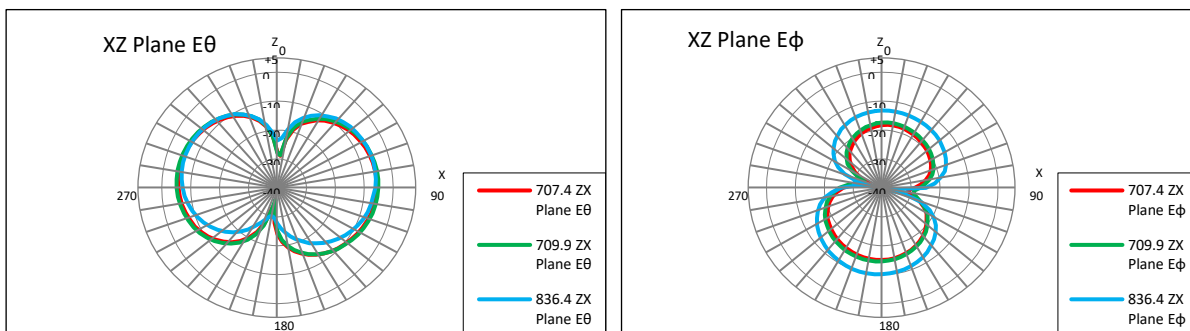
XY Plane



YZ Plane

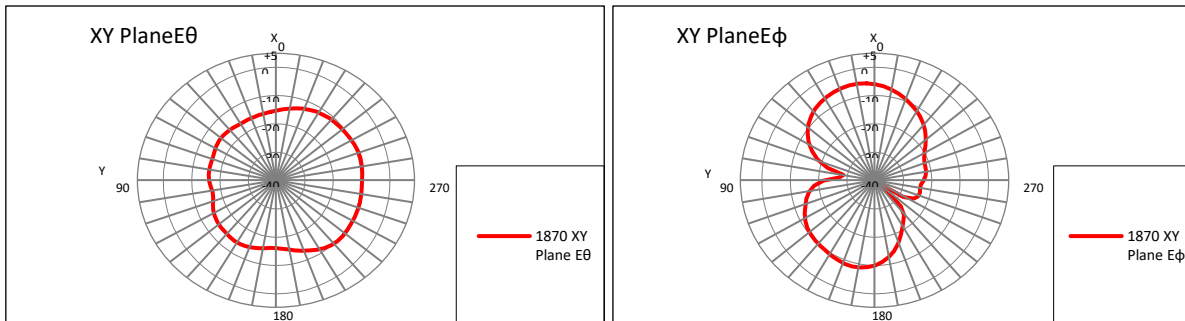


XZ Plane

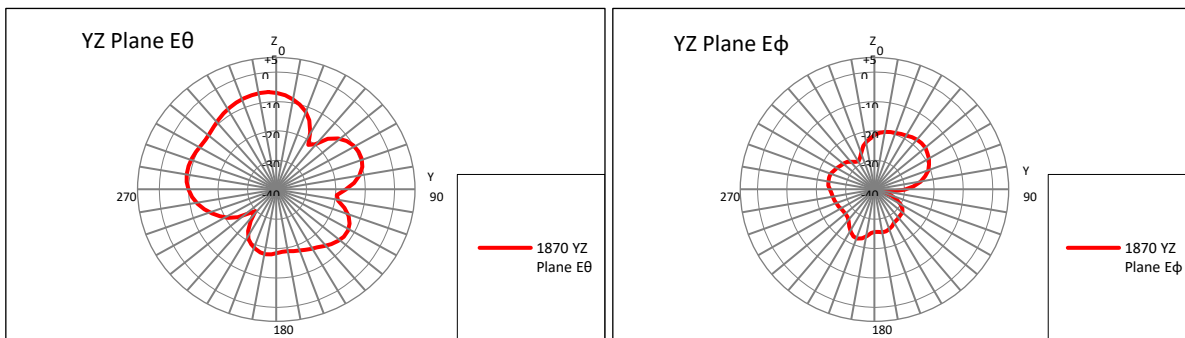


ANT2_1870MHz

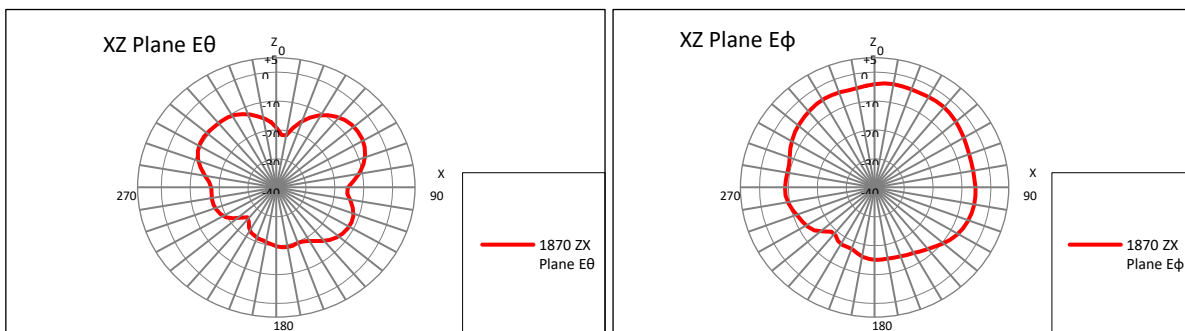
XY Plane



YZ Plane



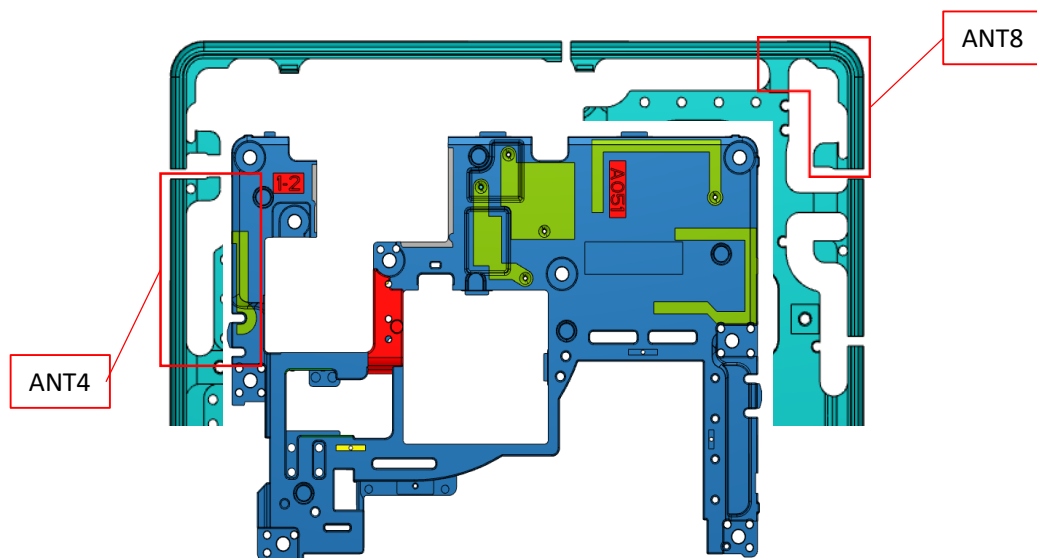
XZ Plane



WiFi

2.1 Antenna Photos

Figure 2



2.2 Antenna Gain

ANT4							
Frequency	Plane	2420	2440	2460	5200	5300	5600
Peak Gain	XY	-3.2	-3.8	-4.1	-3.4	-2.2	-3.1
	YZ	-4.3	-4.2	-4.3	-6.0	-6.8	-5.6
	XZ	-3.6	-3.9	-4.0	-6.6	-6.6	-5.4
Avg. Gain	XY	-8.1	-8.5	-8.7	-7.9	-6.2	-8.4
	YZ	-6.9	-7.0	-7.1	-9.9	-10.5	-10.8
	XZ	-7.4	-7.4	-7.2	-11.0	-10.6	-11.2

Frequency	Plane	5840
Peak Gain	XY	-1.7
	YZ	-3.0
	XZ	-0.5
Avg. Gain	XY	-8.0
	YZ	-9.0
	XZ	-7.8

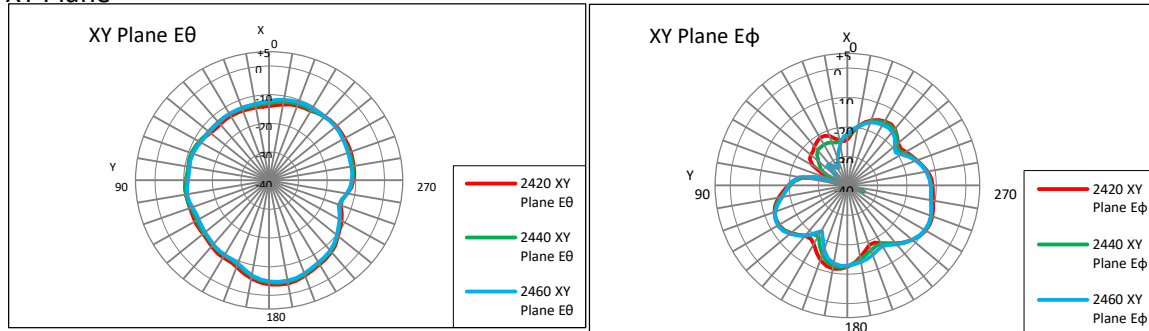
ANT8							
Frequency	Plane	2420	2440	2460	5200	5300	5600
Peak Gain	XY	-7.0	-6.2	-6.0	-2.0	-2.9	-5.8
	YZ	-4.0	-4.7	-2.4	-1.1	-0.9	-6.6
	XZ	-1.3	-1.9	0.4	-0.9	-0.7	-5.6
Avg. Gain	XY	-8.8	-8.7	-7.3	-5.5	-6.1	-9.1
	YZ	-8.5	-8.7	-7.5	-6.3	-6.2	-9.4
	XZ	-5.7	-5.7	-4.3	-5.1	-4.5	-9.3

Frequency	Plane	5840
Peak Gain	XY	-7.2
	YZ	-4.9
	XZ	-5.7
Avg. Gain	XY	-9.5
	YZ	-9.1
	XZ	-9.6

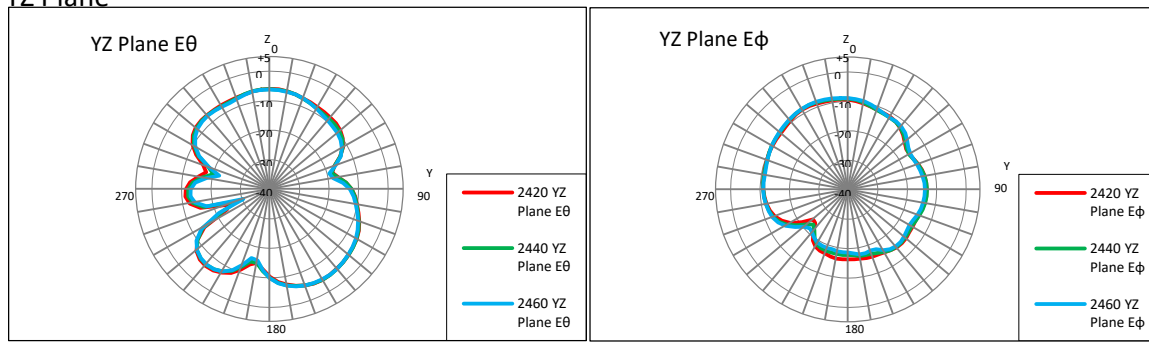
2.3 Antenna Pattern

ANT4 (2400-2500MHz)

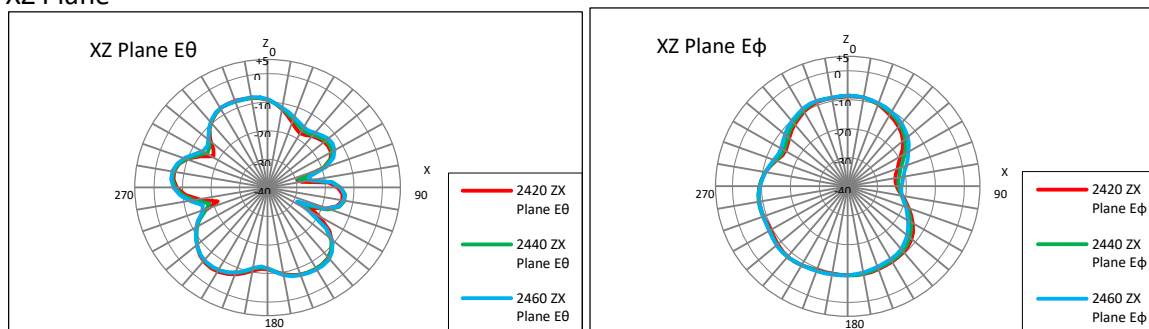
XY Plane



YZ Plane

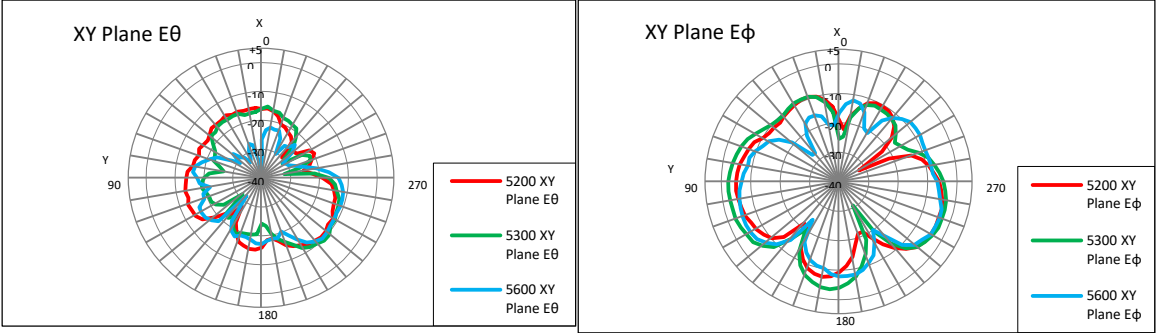


XZ Plane

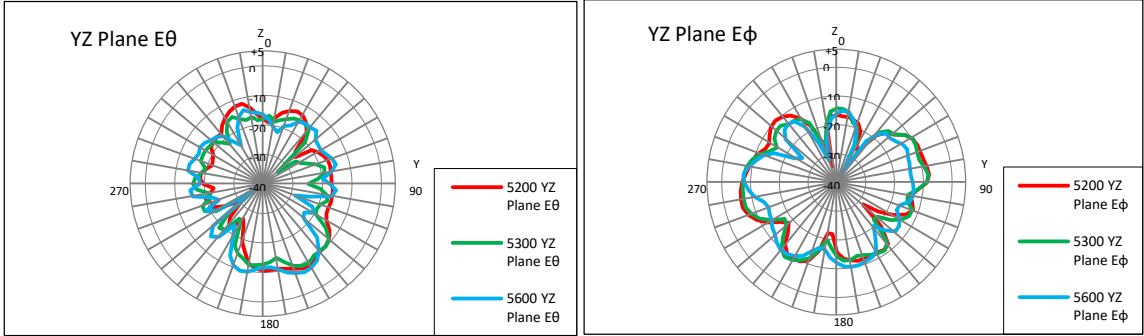


ANT4 (5150-5725MHz)

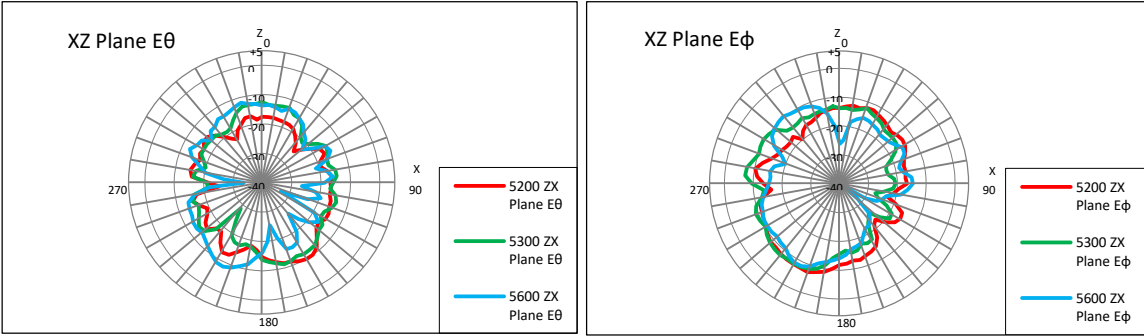
XY Plane



YZ Plane

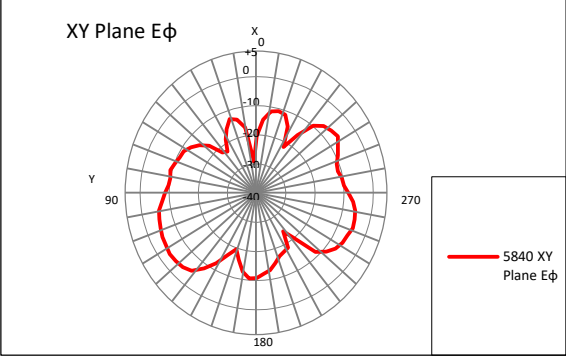
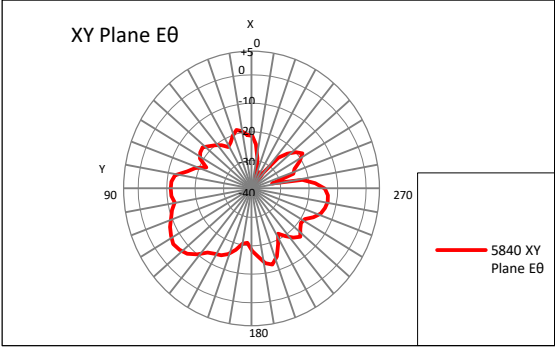


XZ Plane

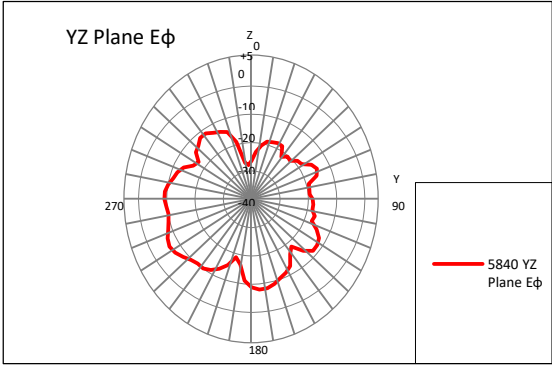
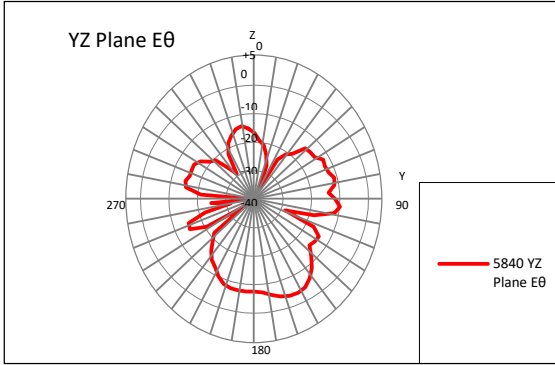


ANT4 (5840MHz)

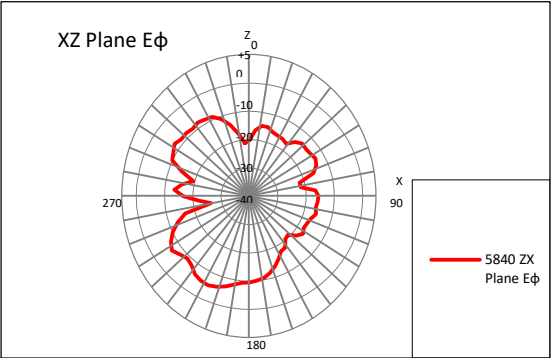
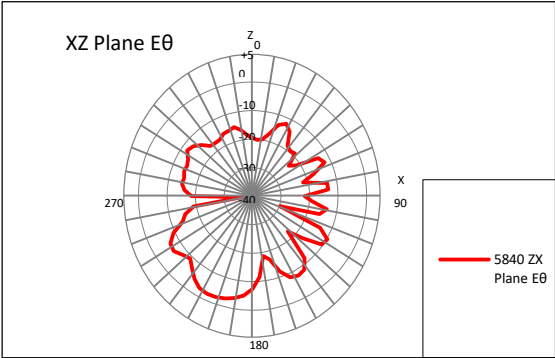
XY Plane



YZ Plane

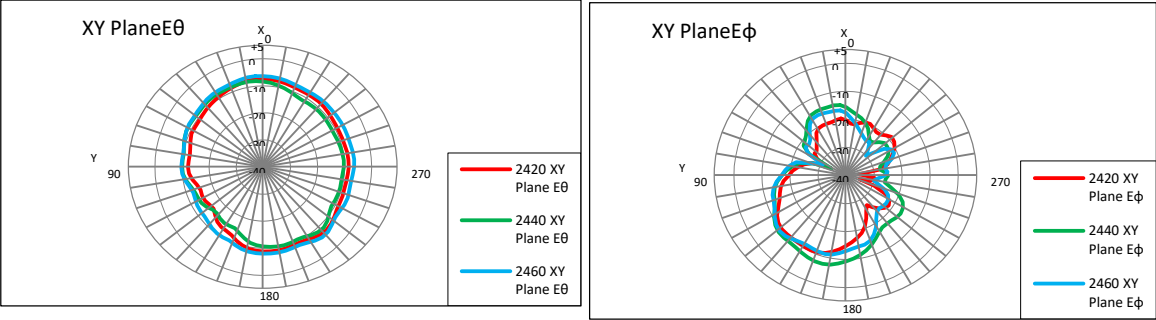


XZ Plane

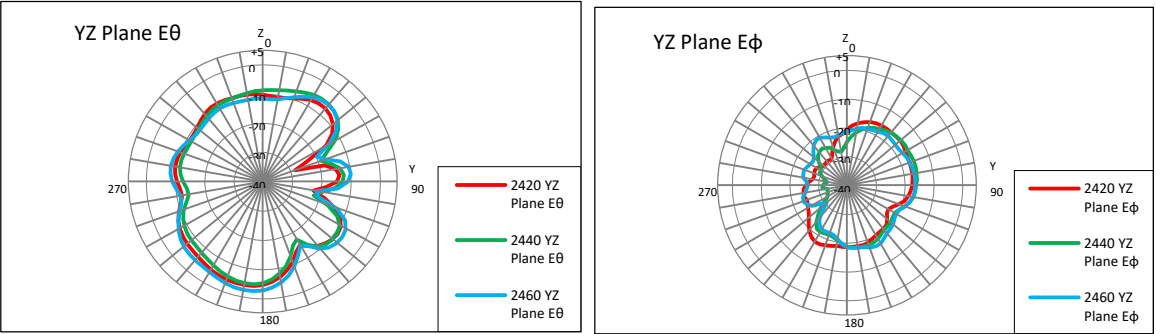


ANT8 (2400-2500MHz)

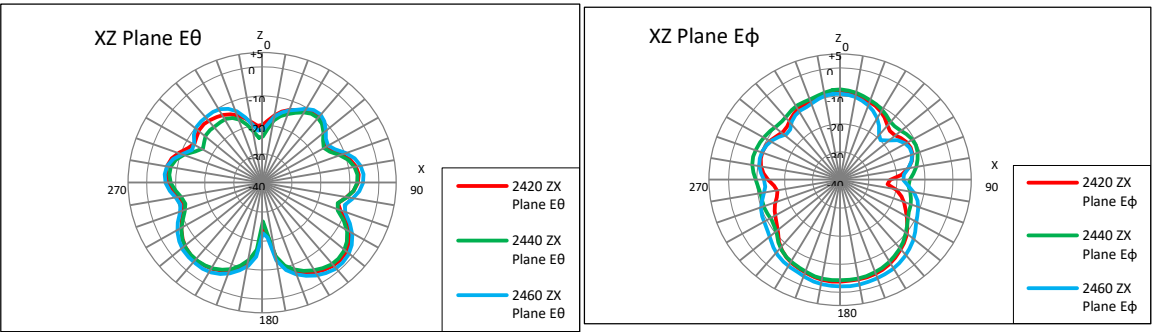
XY Plane



YZ Plane

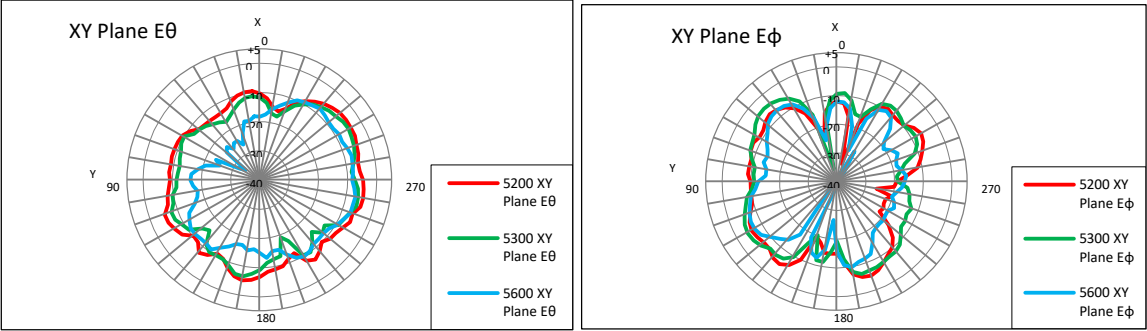


XZ Plane

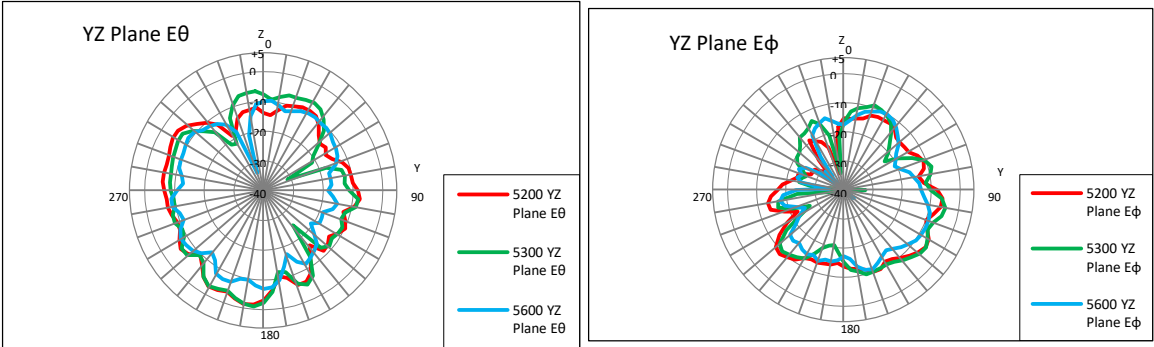


ANT8 (5150-5725MHz)

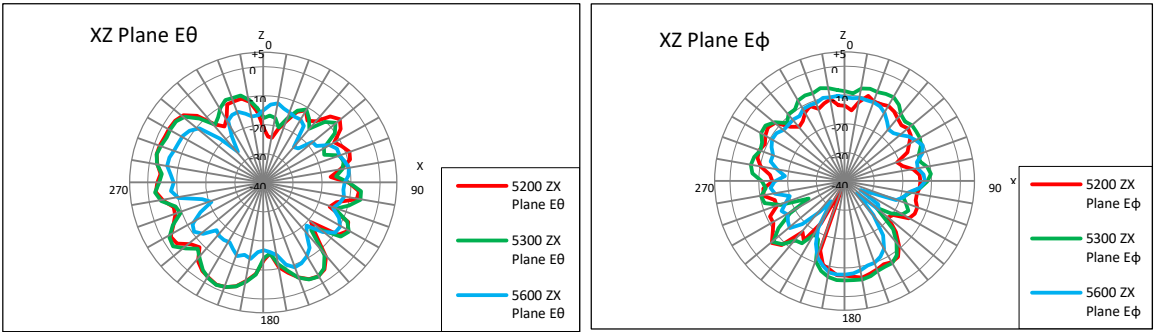
XY Plane



YZ Plane

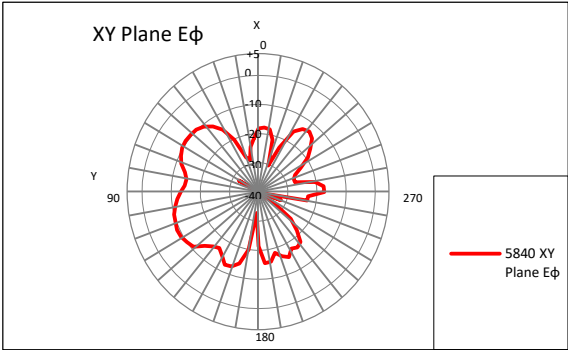
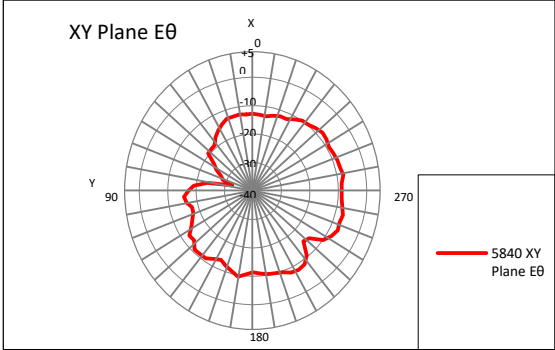


XZ Plane

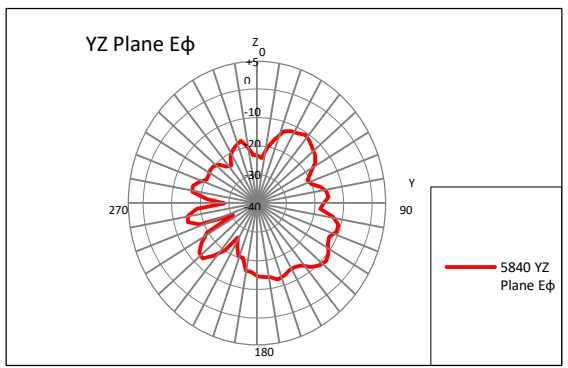
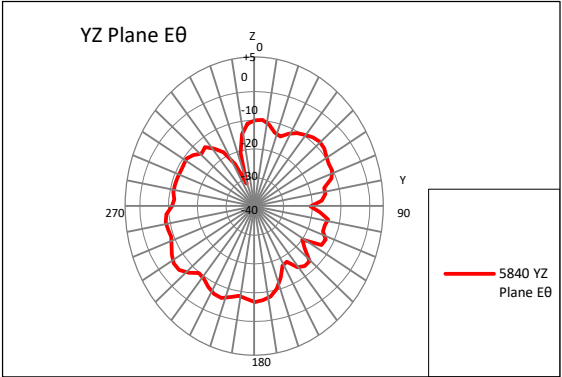


ANT8 (5840MHz)

XY Plane



YZ Plane



XZ Plane

