

# ANTENNA GAIN / PATTERN TEST REPORT

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Antenna Type: Inverted-F Antenna

Issue Date: August 2, 2024

FCC ID: APYHRO00333

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## Cellular

### 1.1 Antenna Photos

Figure 1

Refer to the "13-3-2\_AntennaReport\_APYHRO00333.pdf

## Cellular

### 1.2 Antenna Gain

		ANT3			ANT2
Frequency	Plane	707.4	709.9	836.4	1870
Peak Gain	XY	-5.0	-4.6	-3.9	-3.7
	YZ	-6.4	-5.9	-3.3	-2.5
	XZ	-5.9	-5.4	-4.8	-0.9
Avg. Gain	XY	-6.0	-5.5	-6.2	-7.0
	YZ	-10.4	-9.9	-8.2	-7.8
	XZ	-9.4	-8.9	-8.1	-4.8

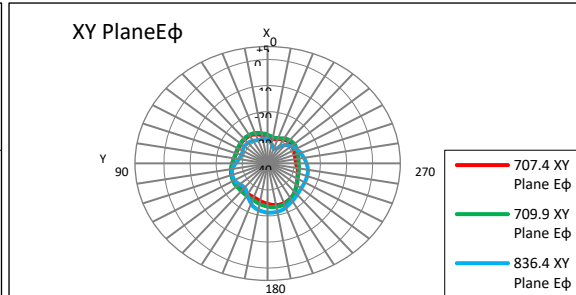
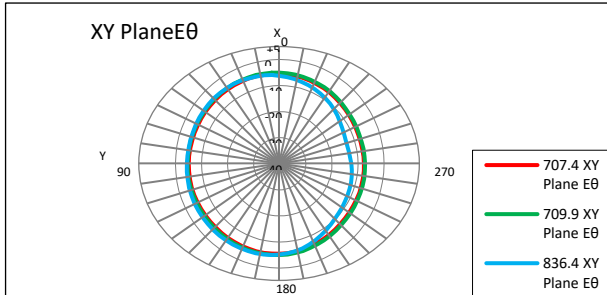
Unit [dBi]

# Cellular

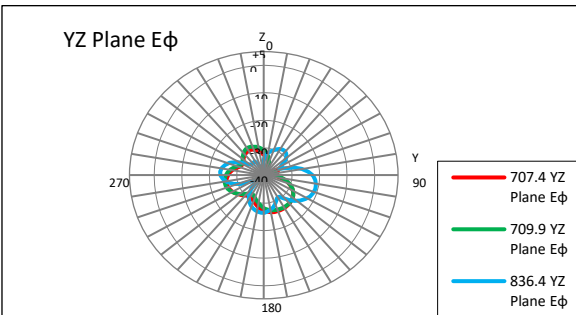
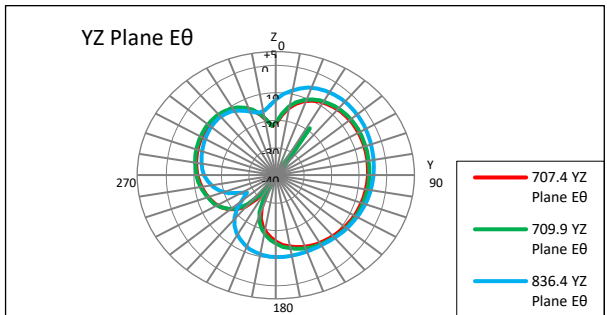
## 1.3 Antenna Pattern

ANT3\_707.4/709.9/836.4MHz

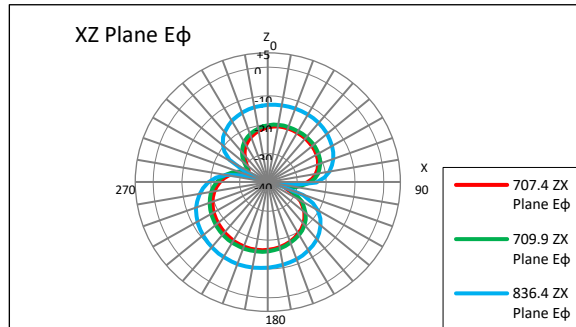
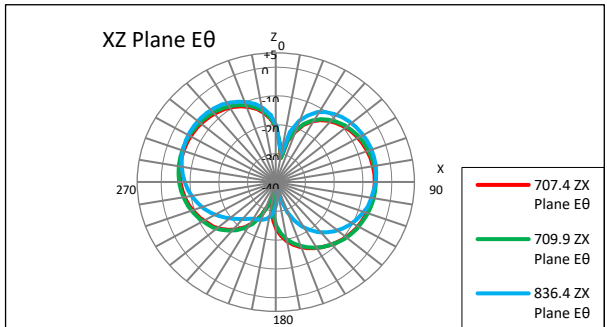
### XY Plane



### YZ Plane

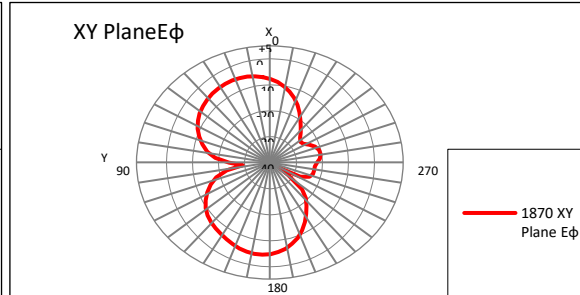
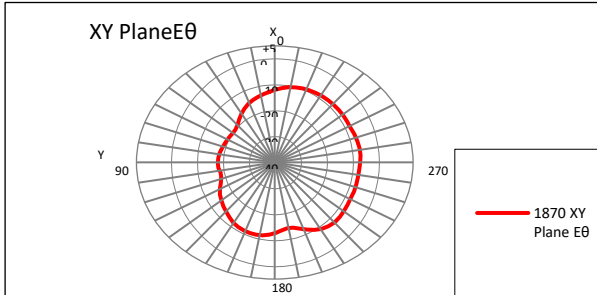


### XZ Plane

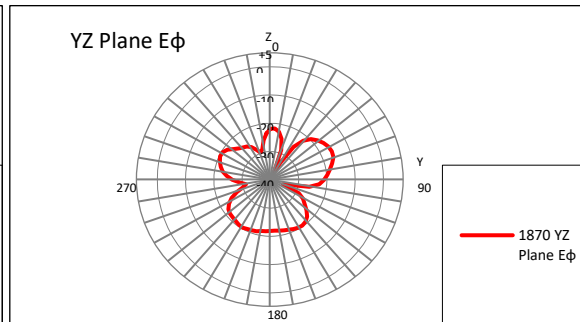
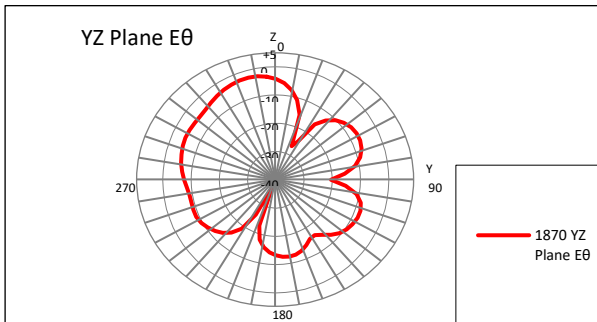


# ANT2\_1870MHz

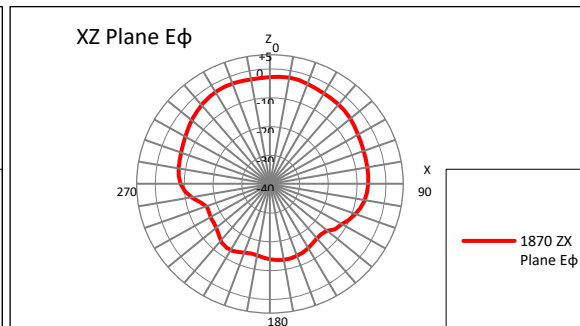
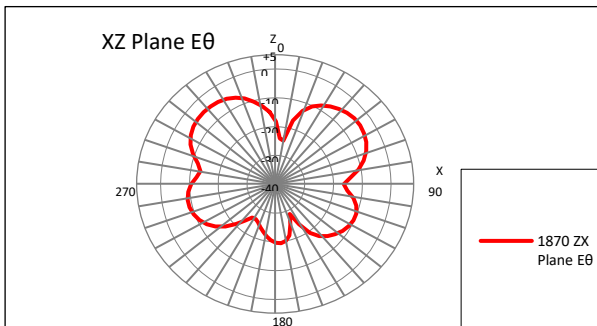
## XY Plane



## YZ Plane



## XZ Plane



# WiFi

## 2.1 Antenna Photos

Figure 2

Refer to the "13-3-2\_AntennaReport\_APYHRO00333.pdf".

## 2.2 Antenna Gain

ANT4							
Frequency	Plane	2420	2440	2460	5200	5300	5600
Peak Gain	XY	-4.6	-4.3	-4.3	-6.3	-5.8	-2.6
	YZ	-5.4	-5.1	-4.9	-6.1	-5.5	-3.6
	XZ	-4.7	-4.6	-4.5	-6.0	-5.7	-1.9
Avg. Gain	XY	-7.4	-7.1	-7.2	-9.2	-8.9	-6.8
	YZ	-9.4	-9.1	-9.0	-10.8	-9.6	-8.3
	XZ	-8.2	-8.0	-8.2	-9.4	-8.9	-6.9

Frequency	Plane	5840	5925
Peak Gain	XY	-3.2	-3.3
	YZ	-3.5	-3.9
	XZ	-2.8	-2.6
Avg. Gain	XY	-8.4	-8.9
	YZ	-7.2	-7.5
	XZ	-7.0	-6.9

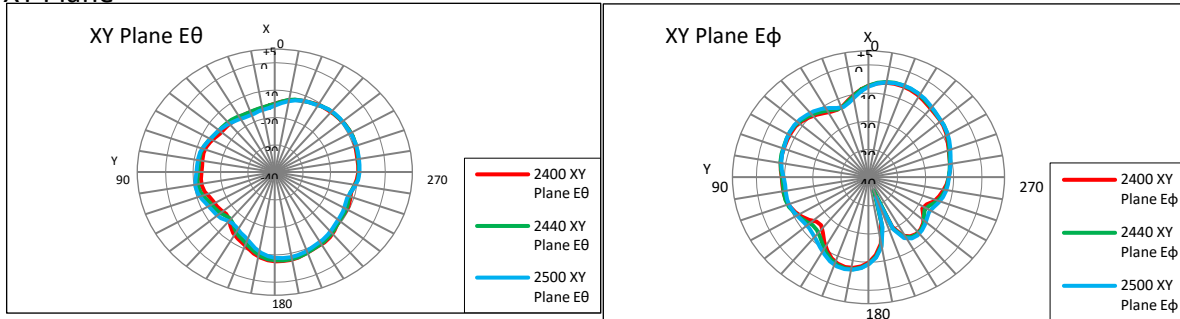
ANT8							
Frequency	Plane	2420	2440	2460	5200	5300	5600
Peak Gain	XY	-4.4	-4.4	-4.4	-3.0	-3.6	-3.4
	YZ	-3.3	-3.5	-3.8	-0.2	-0.9	-3.5
	XZ	-2.0	-1.8	-1.7	-3.3	-3.9	-3.7
Avg. Gain	XY	-7.1	-7.2	-7.4	-7.9	-8.8	-9.0
	YZ	-8.6	-8.7	-8.9	-7.5	-7.7	-8.9
	XZ	-5.6	-5.7	-6.0	-6.4	-6.6	-7.2

Frequency	Plane	5840	5925
Peak Gain	XY	-4.7	-5.1
	YZ	-5.8	-6.0
	XZ	-1.4	-1.2
Avg. Gain	XY	-8.8	-8.5
	YZ	-9.6	-9.8
	XZ	-6.3	-6.0

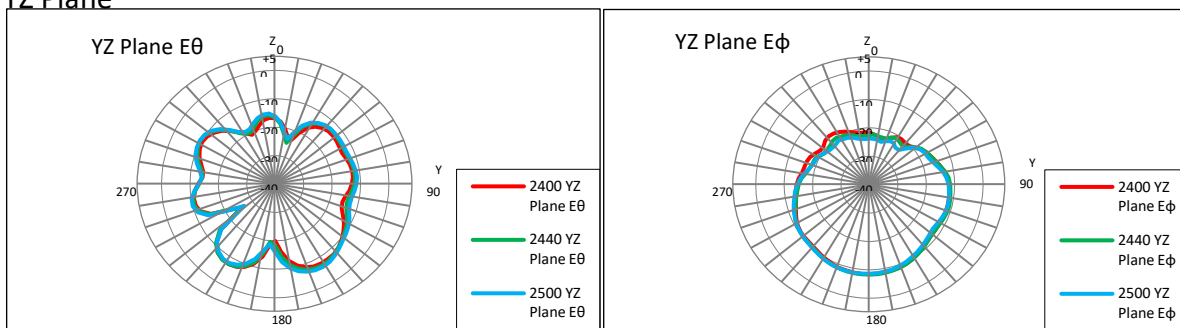
## 2.3 Antenna Pattern

ANT4 (2400-2500MHz)

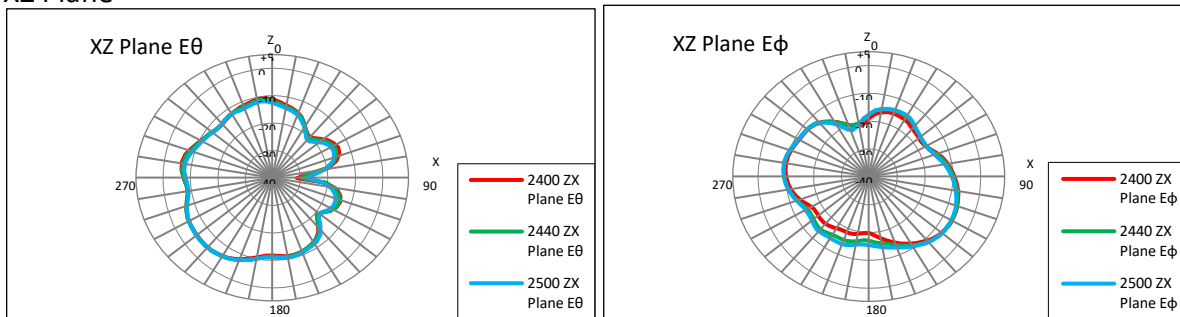
### XY Plane



### YZ Plane

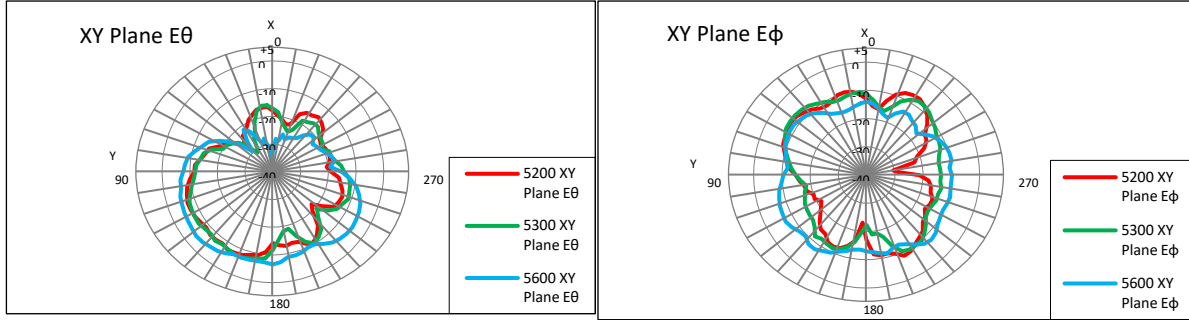


### XZ Plane

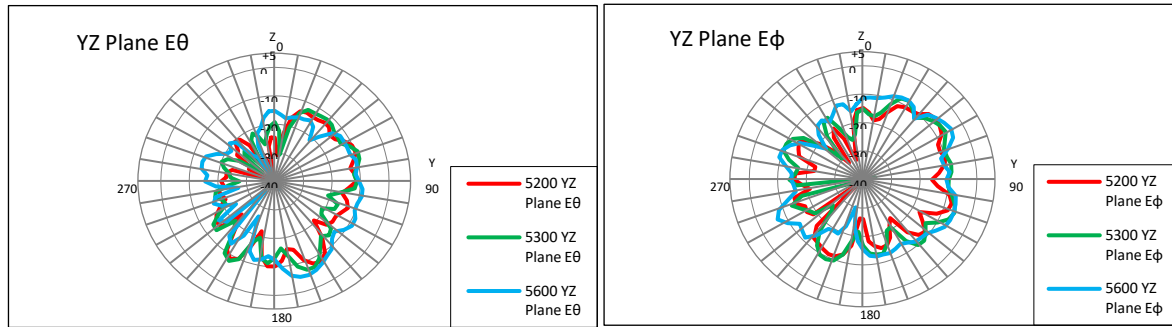


# ANT4 (5150-5725MHz)

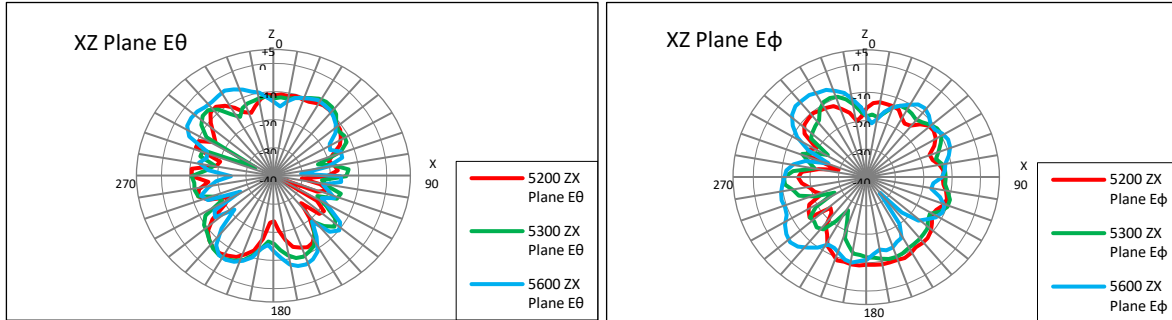
## XY Plane



## YZ Plane



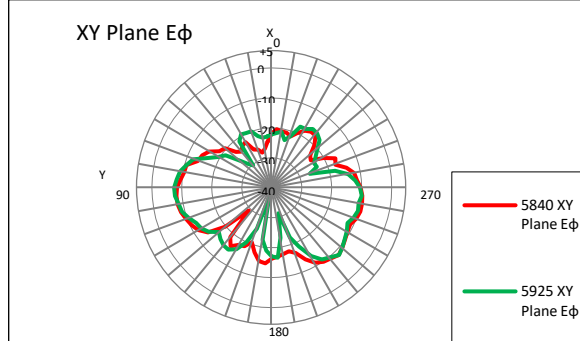
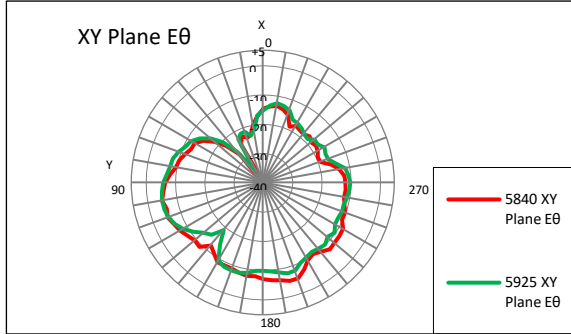
## XZ Plane



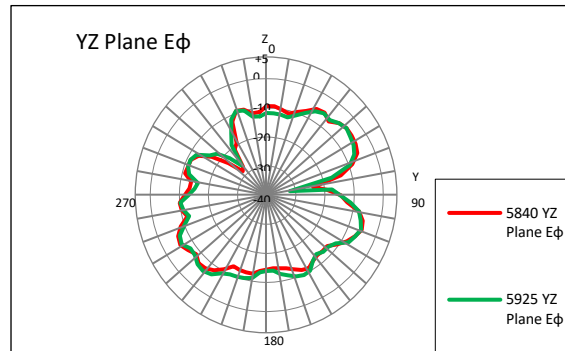
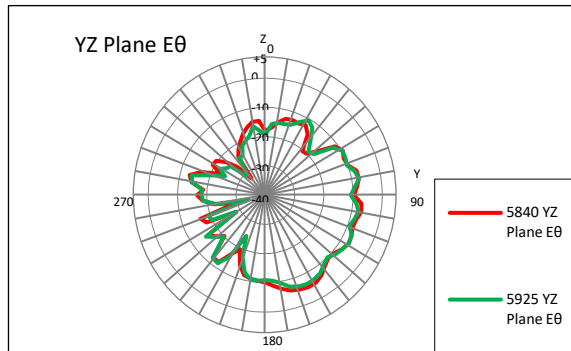


# ANT4 (5840/5925MHz)

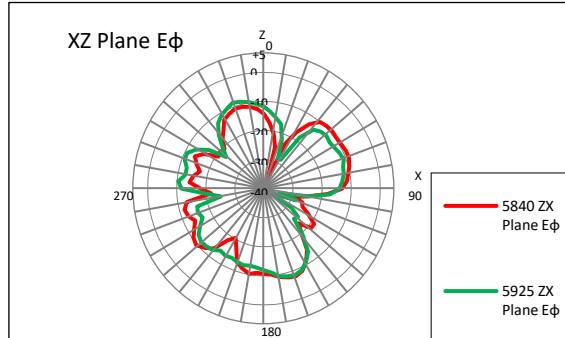
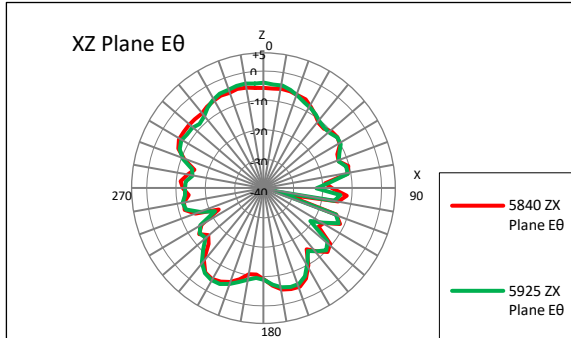
## XY Plane



## YZ Plane

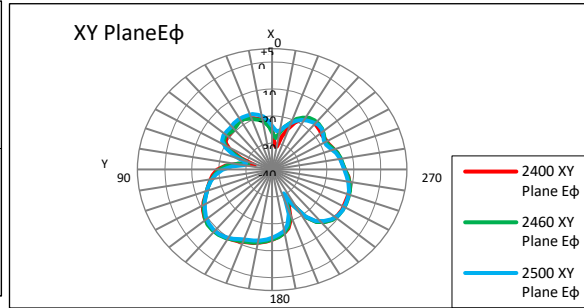
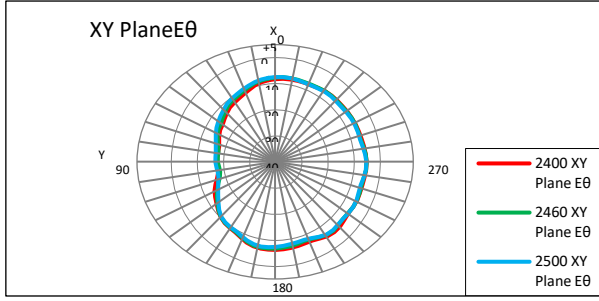


## XZ Plane

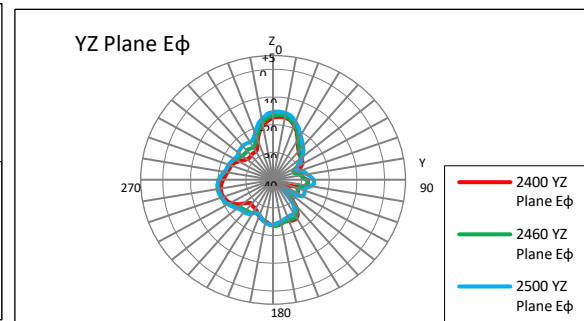
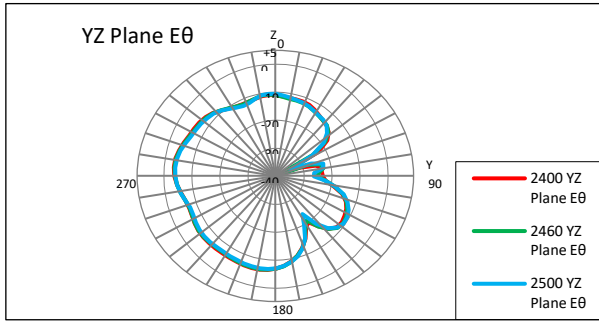


# ANT8 (2400-2500MHz)

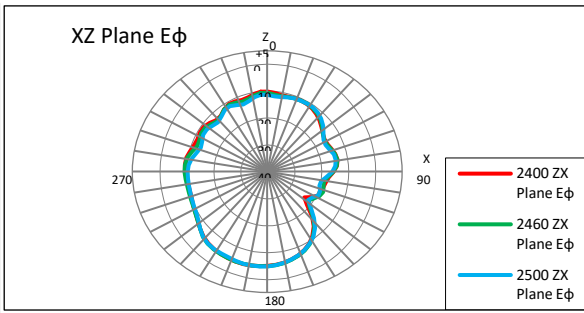
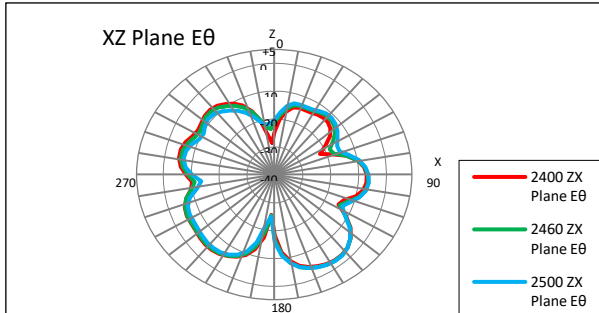
## XY Plane



## YZ Plane

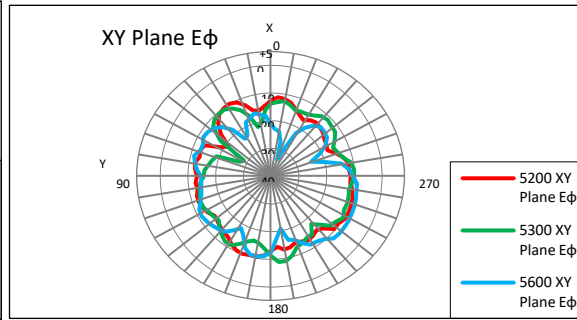
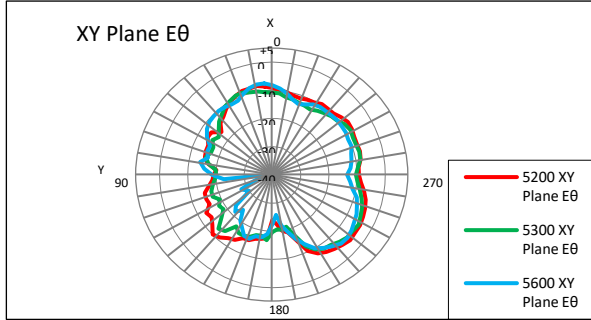


## XZ Plane

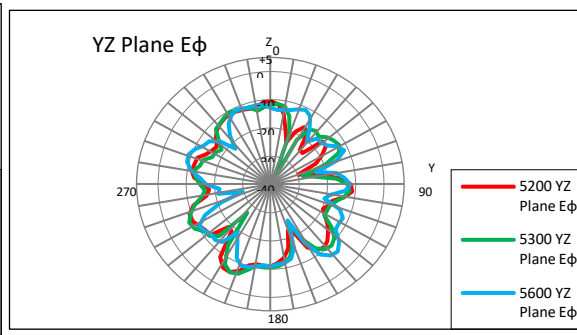
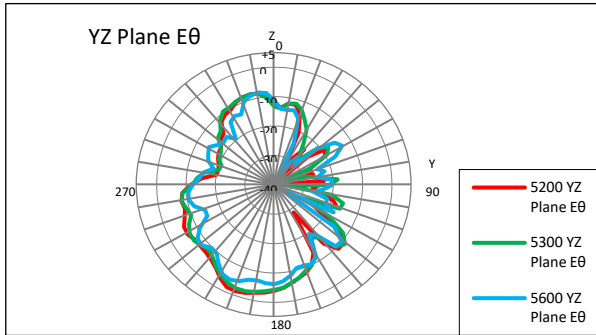


# ANT8 (5150-5850MHz)

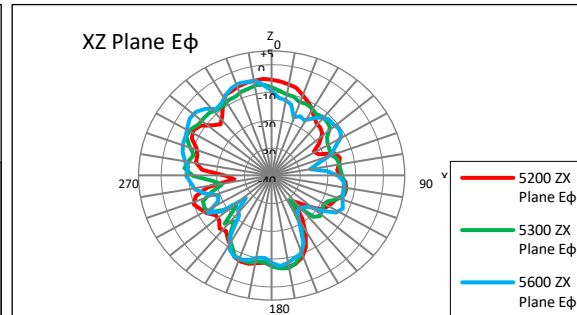
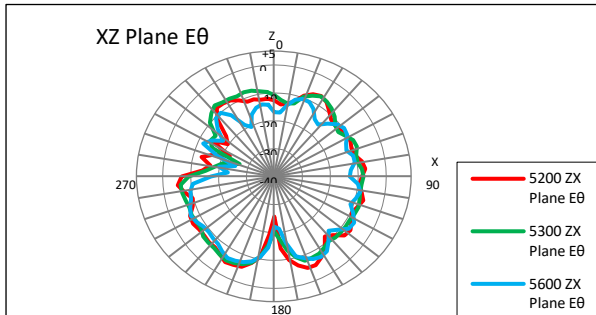
## XY Plane



## YZ Plane

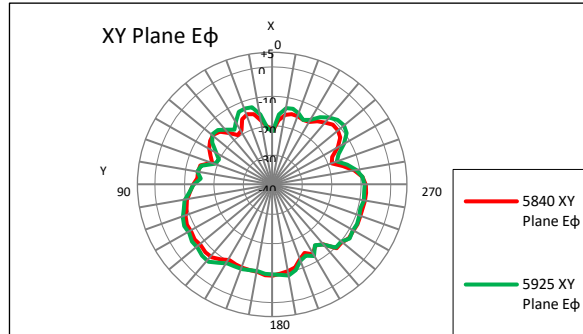
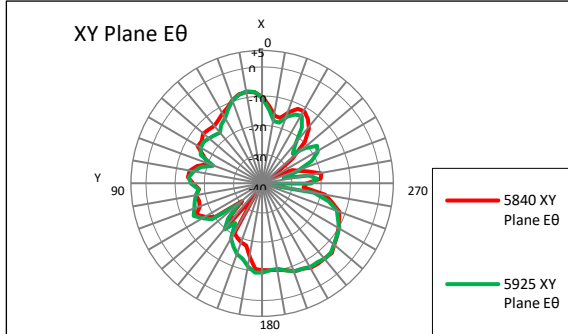


## XZ Plane

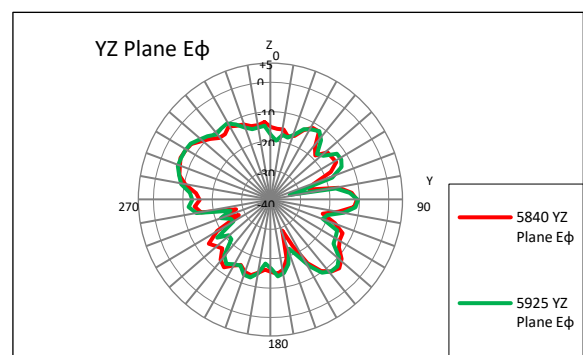
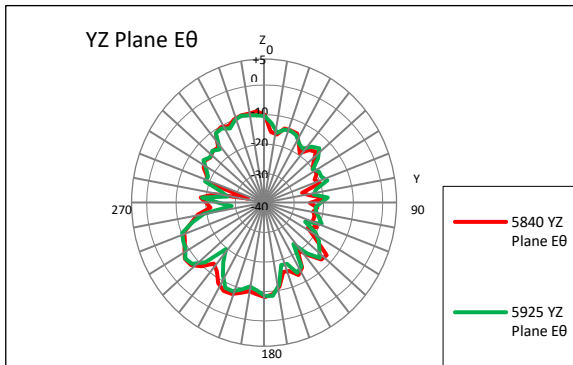


# ANT8 (5840/5925MHz)

## XY Plane



## YZ Plane



## XZ Plane

