



GeTac_UX10G3

Antenna report for 5G module

Date of Report: 2023/ 06 / 05
Department: WCB , Auden Techno Corp.



Persisting in Technology
antenna solutions for wireless technologies

LTE Main Antenna

Antenna Vender:

Auden Techno Corp.

NO.19, LANE 772 HO-PING ROAD, PA-TE DIST, TAO-YUAN CITY, TAIWAN

(TEL) : 886-3-3631901

(FAX) : 886-3-3660619

Antenna Type:

PIFA

Antenna Model:

WWAN main Ant UX10G3

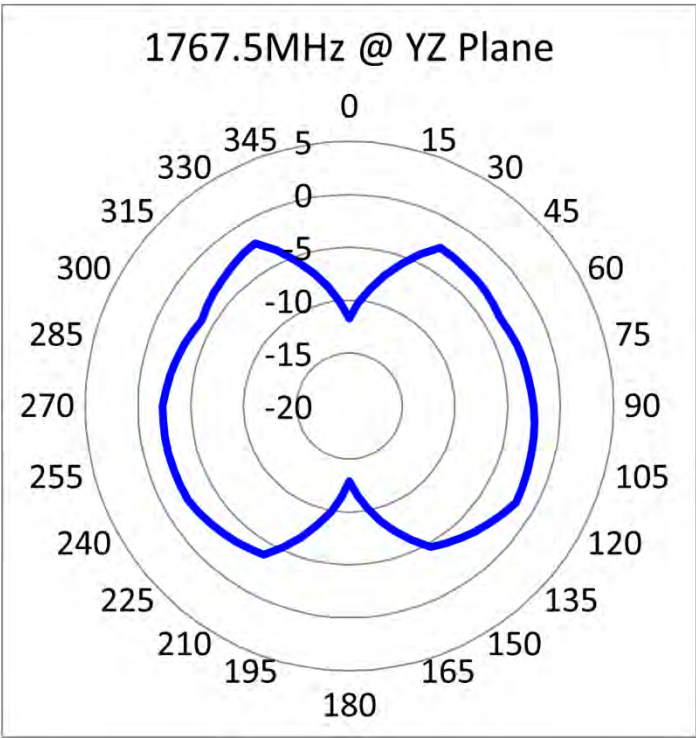
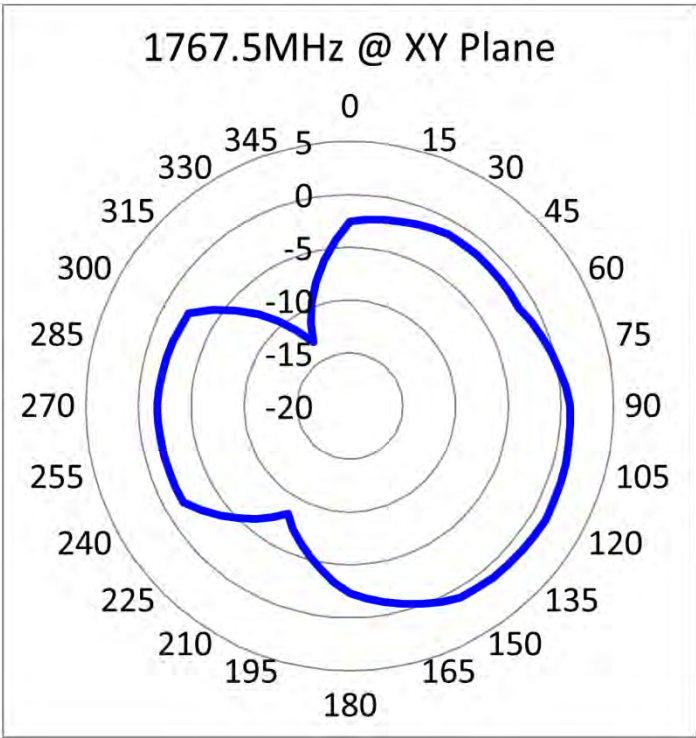
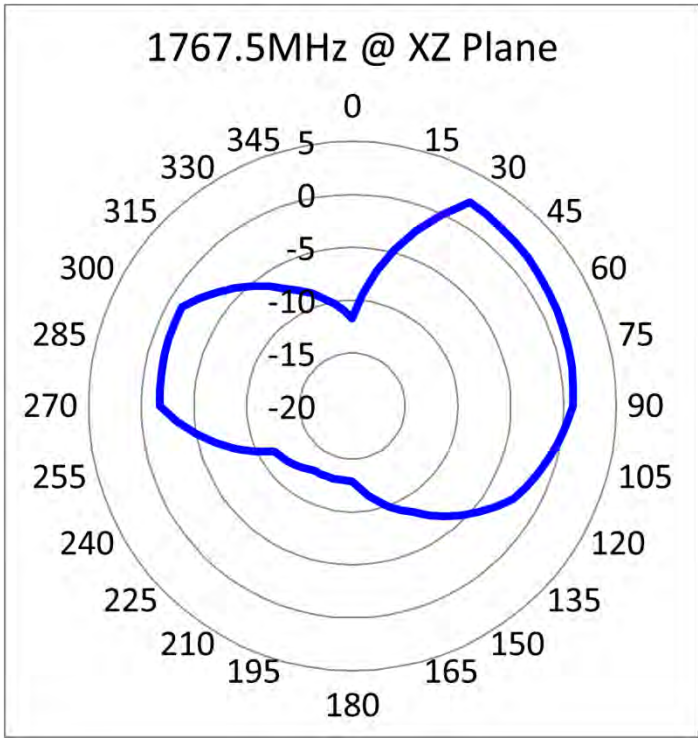
Supported Frequency Bands (5G/LTE/3G)

Band#	5Ga (n<band#)	LTE (B<band#>)	3G (Band<band#)	Frequency (Tx)	Frequency (Rx)	freq. (MHz)	Spec. Eff.(dB)	Efficiency Eff.(dB)	Efficiency Eff.(%)	Peak Gain with cable loss	Cable Loss (dB)
1	Y	Y	Y	1920–1980 MHz	2110–2170 MHz	1950	-2.6	-1.8	66%	2.4	-0.20
2	Y	Y	Y	1850–1910 MHz	1930–1990 MHz	1880	-2.6	-1.1	78%	2.5	-0.19
3	Y	Y	/	1710–1785 MHz	1805–1880 MHz	1747.5	-2.6	-1.3	74%	2.8	-0.18
4	/	Y	Y	1710–1755 MHz	2110–2155 MHz	1710	-2.6	-1.9	64%	3.0	-0.17
5	Y	Y	Y	824–849 MHz	869–894 MHz	836.5	-2.6	-2.4	57%	0.8	-0.13
6	/	/	Y	830–840 MHz	875–885 MHz	830	-2.6	-2.5	56%	1	-0.12
7	/	Y	/	2500–2570 MHz	2620–2690 MHz	2570	-2.6	-2.6	55%	2.8	-0.21
8	/	Y	Y	880–915 MHz	925–960 MHz	880	-2.6	-3.2	48%	-1	-0.13
9	/	/	Y	1749.9–1784.9MHz	1844.9–1879.9 MHz	1767.5	-2.5	-1.7	68%	2.9	-0.18
12	/	Y	/	699–716 MHz	729–746 MHz	707.5	-2.6	-1.3	74%	1.8	-0.11
13	/	Y	/	777–787 MHz	746–756 MHz	782	-2.6	-1.6	69%	1.1	-0.12
14	/	Y	/	788–798 MHz	758–768 MHz	793	-2.6	-2	63%	1.1	-0.12
17	/	Y	/	704–716 MHz	734–746 MHz	710	-2.5	-1.3	74%	1.7	-0.11
18	/	Y	/	815–830 MHz	860–875 MHz	815	-2.6	-2.5	56%	1	-0.12
19	/	Y	Y	830–845 MHz	875–890 MHz	830	-2.6	-2.5	56%	1	-0.12
20	/	Y	/	832–862 MHz	791–821 MHz	832	-2.6	-2.5	56%	1	-0.13
25	/	Y	/	1850–1915 MHz	1930–1995 MHz	1915	-2.5	-1.8	66%	2.4	-0.20
26	/	Y	/	814–849 MHz	859–894 MHz	831.5	-2.6	-2.5	56%	1	-0.13
28	Y	Y	/	703–748 MHz	758–803 MHz	725.5	-2.5	-1.1	77%	1.2	-0.11
29	/	Y	/	n/a	717–728 MHz	722.5	-2.6	-1.3	75%	1.1	-0.11

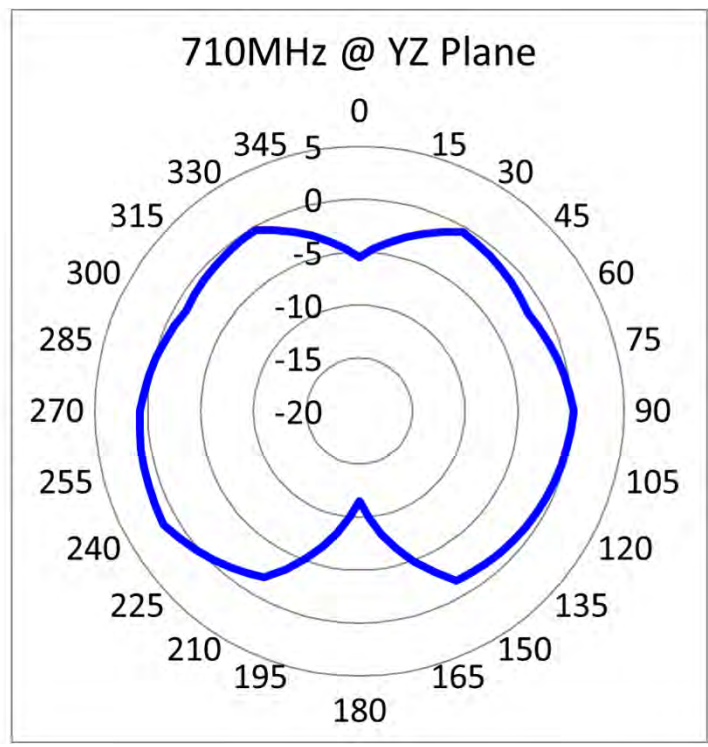
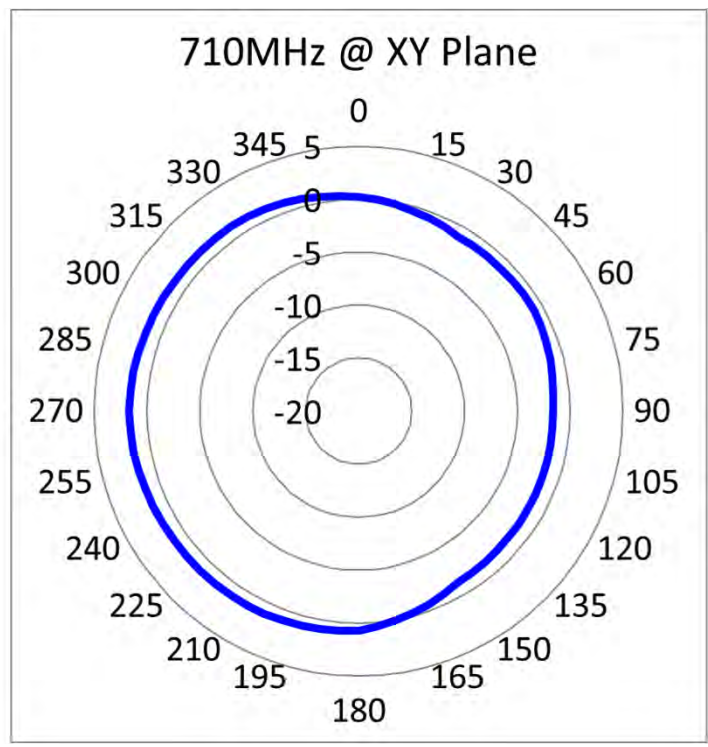
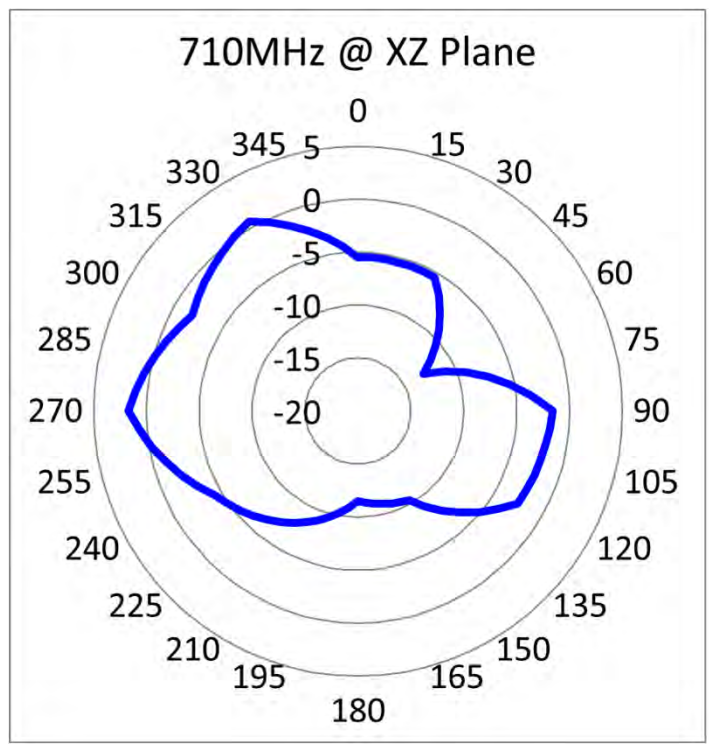
Supported Frequency Bands (5G/LTE/3G)

Band#	5Ga (n<band#)	LTE (B<band#>)	3G (Band<band#)	Frequency (Tx)	Frequency (Rx)	freq. (MHz)	Spec. Eff.(dB)	Efficiency Eff.(dB)	Efficiency Eff.(%)	Peak Gain with cable loss	Cable Loss (dB)
30	/	Y	/	2305–2315 MHz Note: B30 Tx is disabled ^c	2350–2360 MHz	2310	-2.6	-1.9	64%	0.3	-0.19
32	/	Y	/	n/a	1452–1496 MHz	1474		-7.4	18%	-3.6	-0.15
34	/	Y	/	2010–2025 MHz (TDD)		2017.5		-2.2	60%	2.7	-0.16
38	/	Y	/	2570–2620 MHz (TDD)		2595	-2.6	-2.7	54%	2.8	-0.21
39	/	Y	/	1880–1920 MHz (TDD)		1900	-2.5	-1.9	65%	2.3	-0.19
40	/	Y	/	2300–2400 MHz (TDD)		2350	-2.5	-2.7	54%	2.5	-0.19
41	Y	Y	/	2496–2690 MHz (TDD)		2593	-2.6	-2.7	54%	2.8	-0.21
42	/	Y	/	3400–3600 MHz (TDD)		3500	-2.6	-2.2	60%	2.1	-0.25
46 ^d	/	Y	/	n/a	5150–5925 MHz (TDD)	5537.5	-2.6	-2.4	58%	-0.5	-0.32
48	Y ^b	Y	/	3550–3700 MHz (TDD)		3625	-2.6	-2.7	54%	0.5	-0.26
66	Y	Y	/	1710–1780 MHz	2110–2200 MHz	1745	-2.6	-1.3	74%	2.7	-0.18
71	Y	Y	/	663–698	617–652	634.5	-5.0	-5.4	29%	-2.5	-0.10
77	Y	/	/	3300–4200 MHz (TDD)		3350	-2.6	-2.9	51%	2.0	-0.23
78	Y	/	/	3300–3800 MHz (TDD)		3550	-2.6	-2.2	60%	2.1	-0.25
79	Y	/	/	4400–5000 MHz (TDD)		4700	-2.6	-1.7	68%	2.8	-0.30

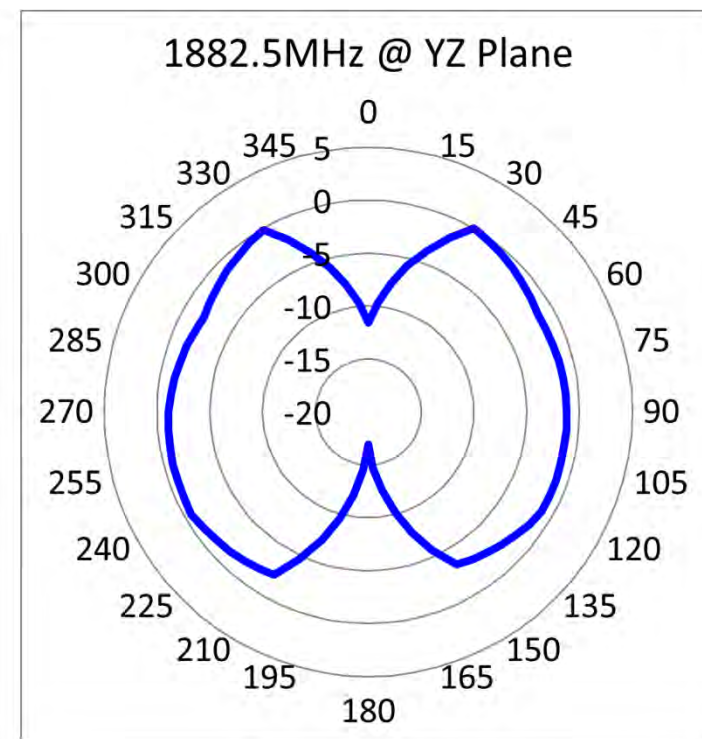
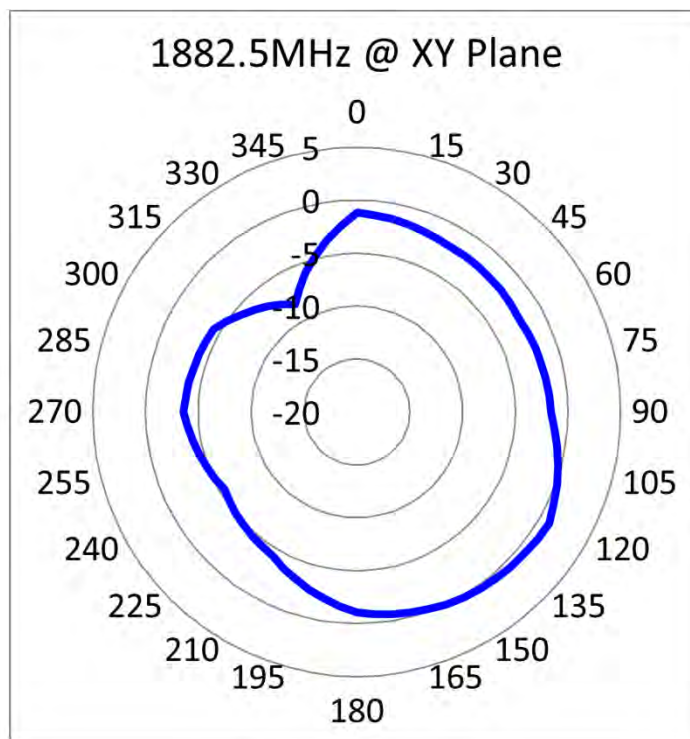
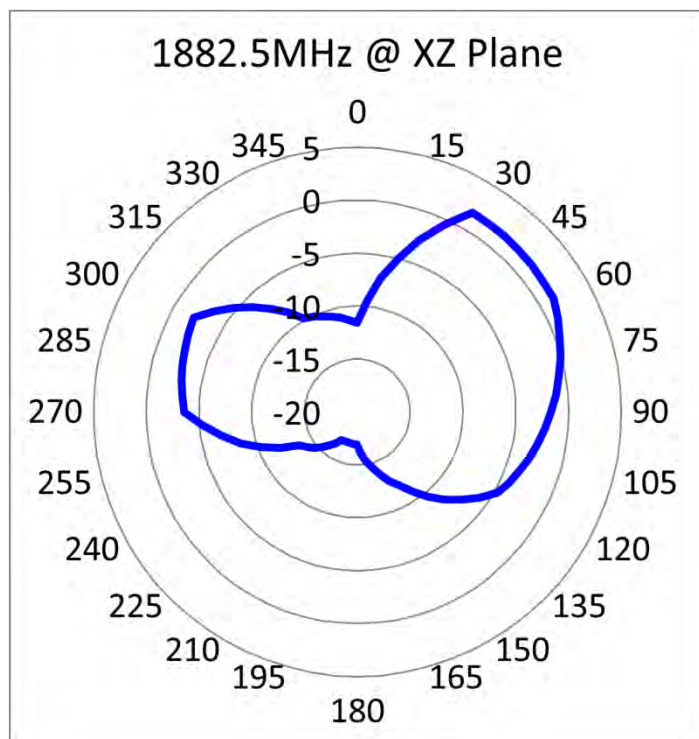
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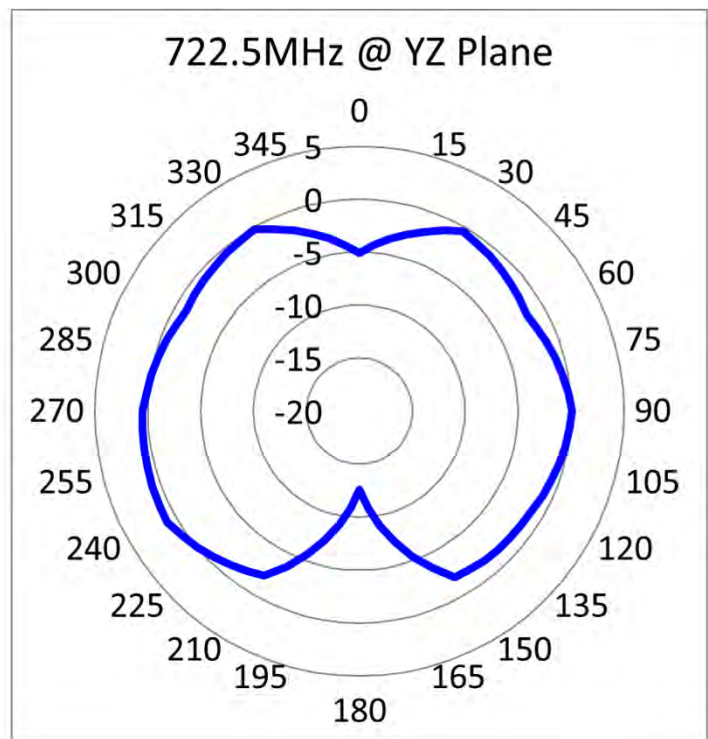
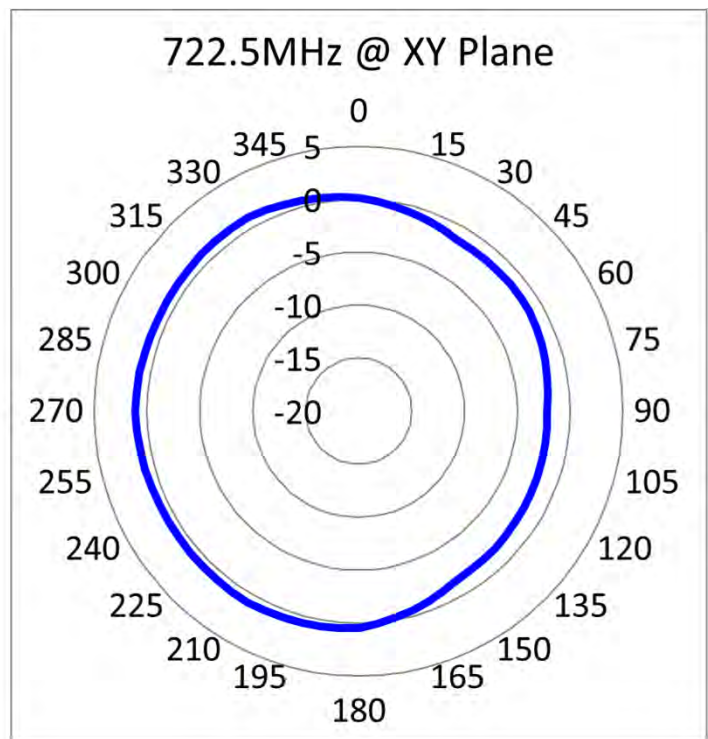
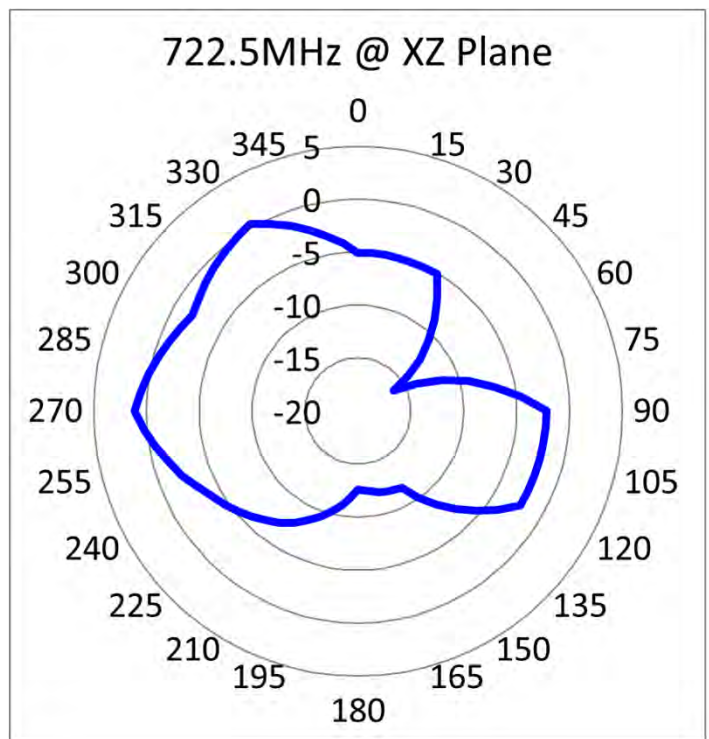
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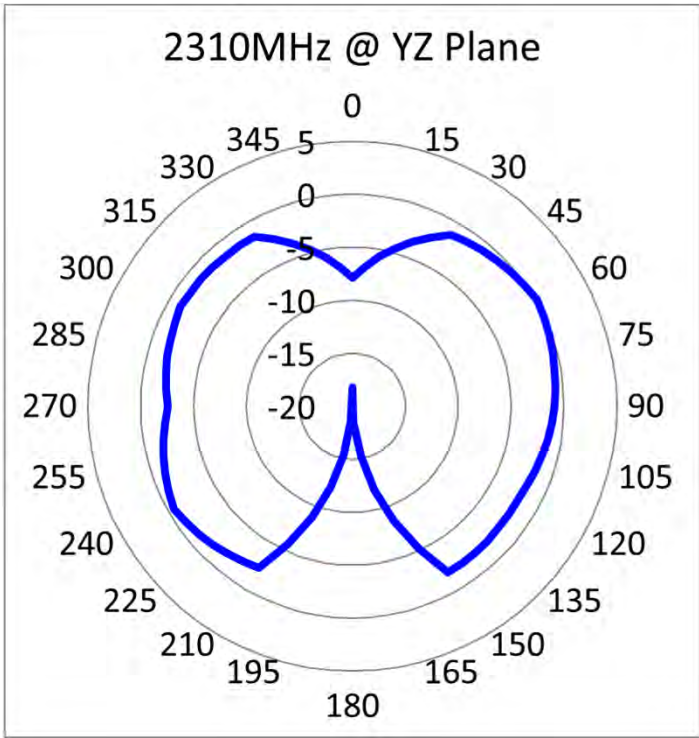
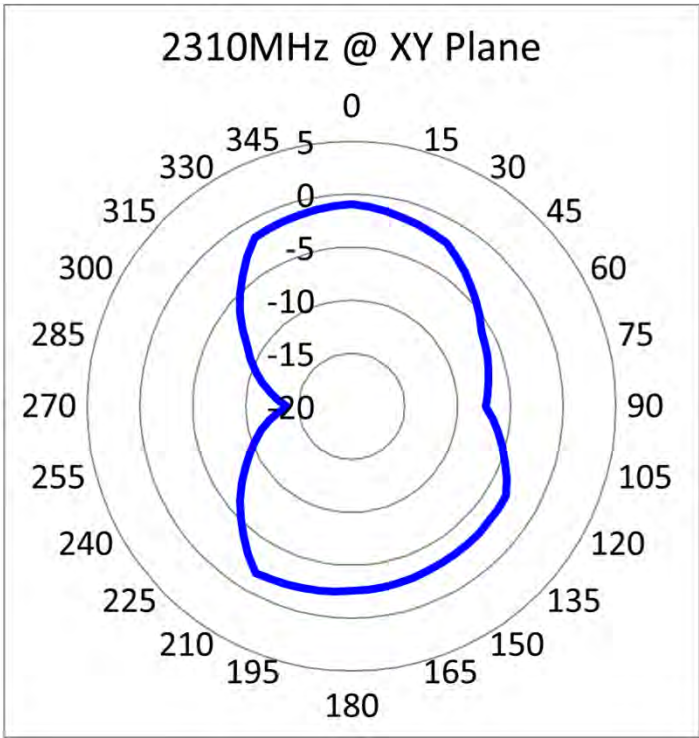
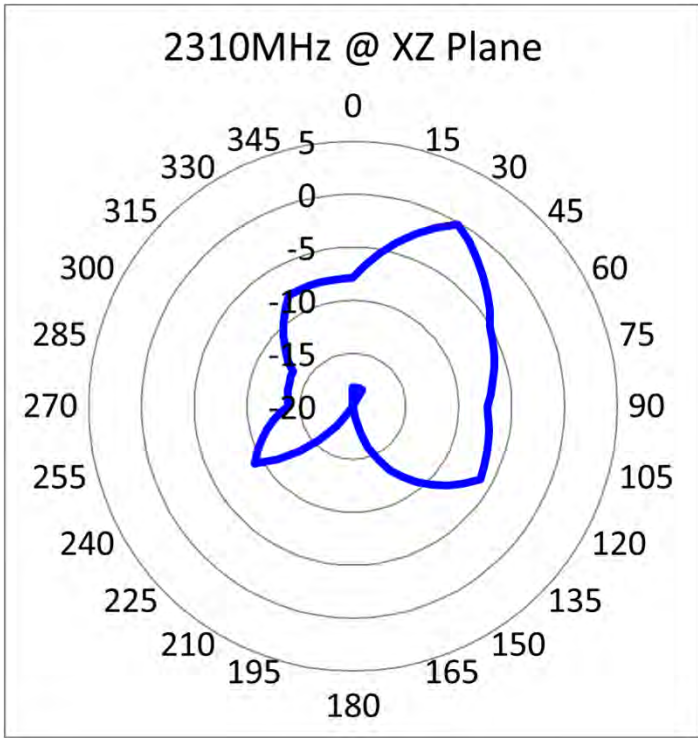
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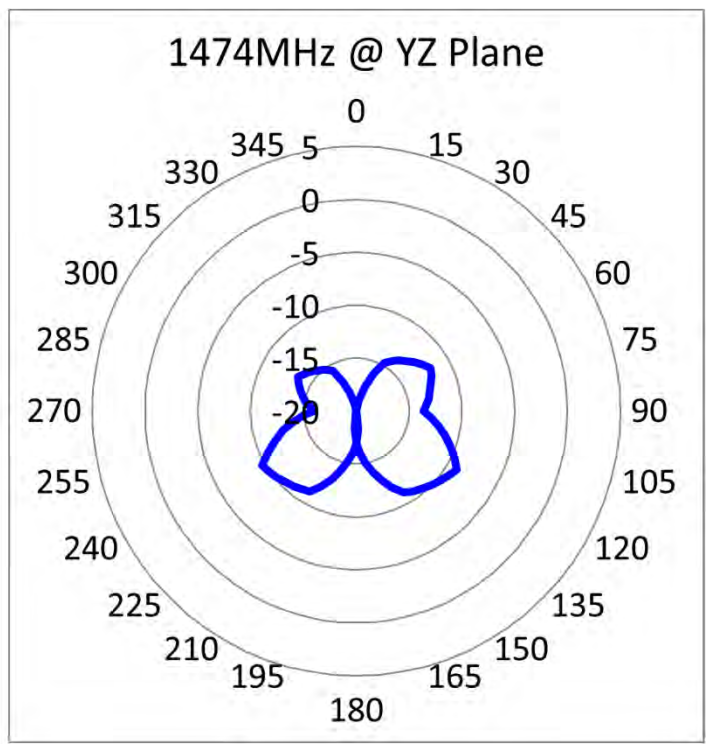
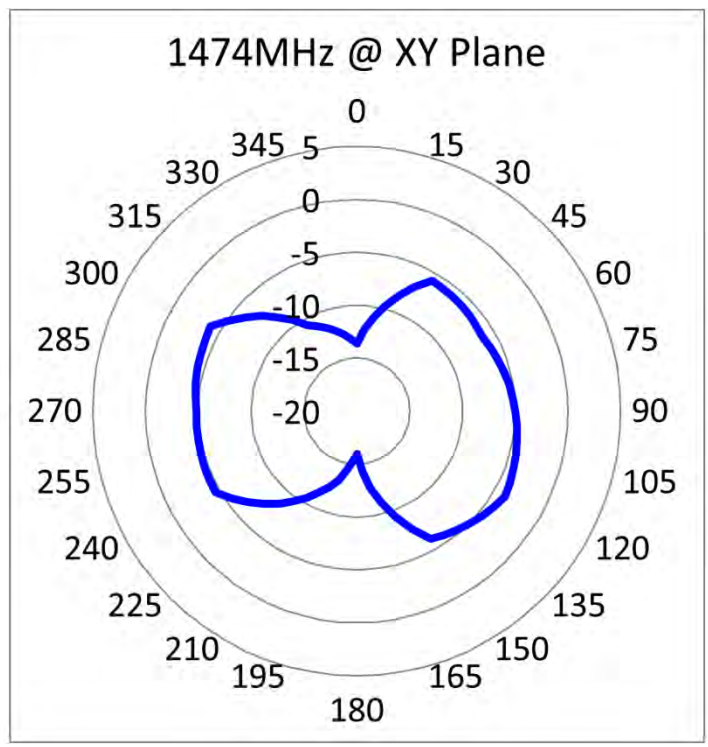
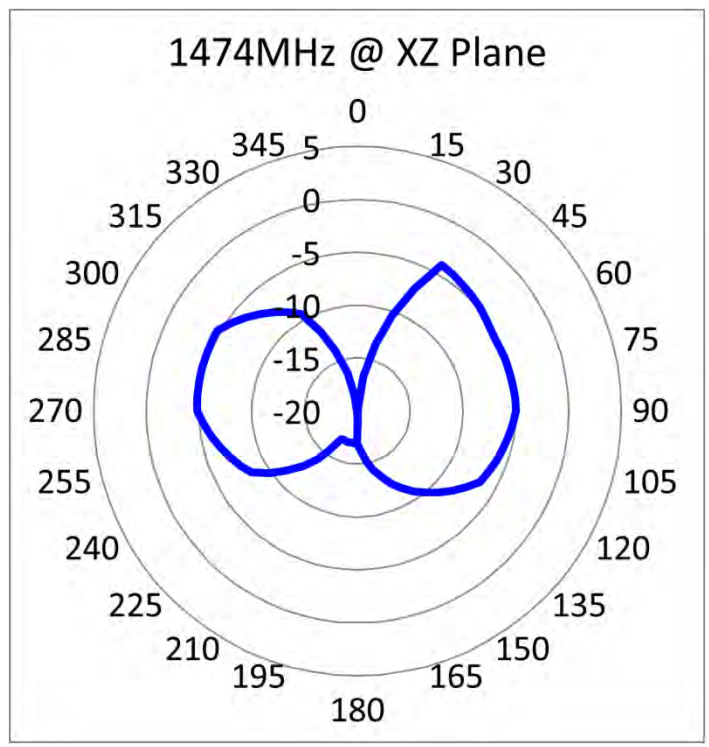
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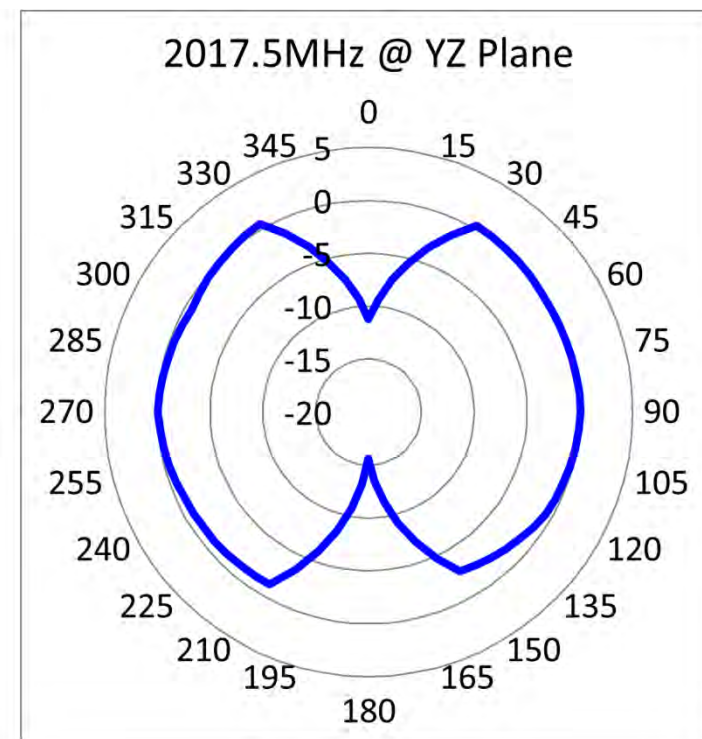
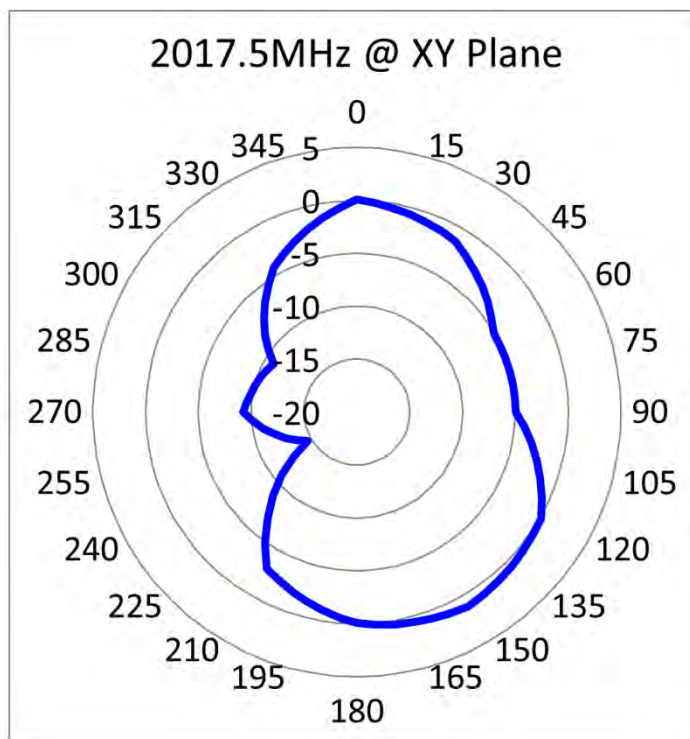
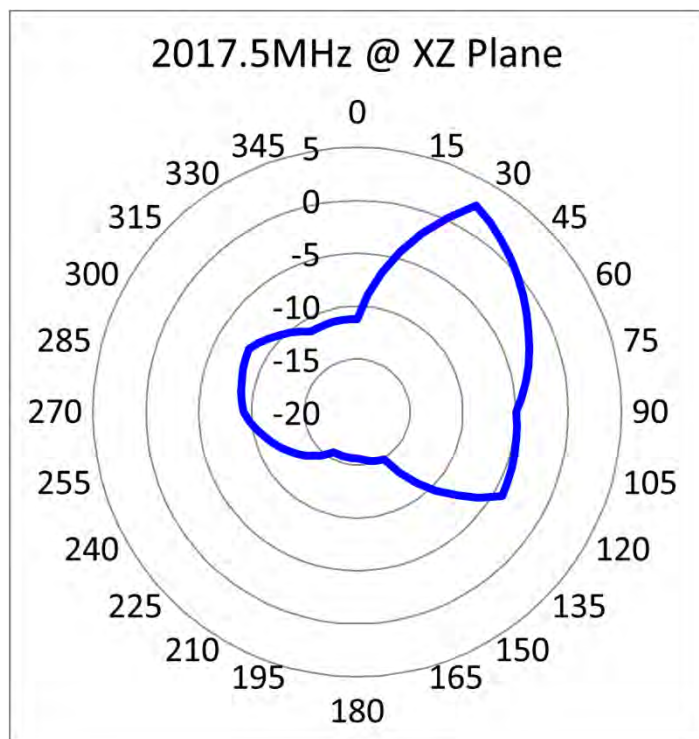
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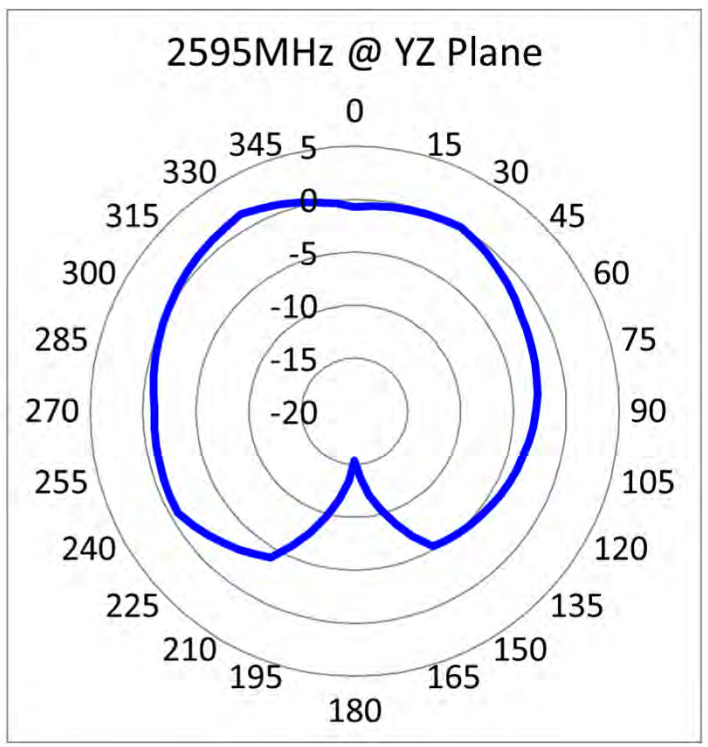
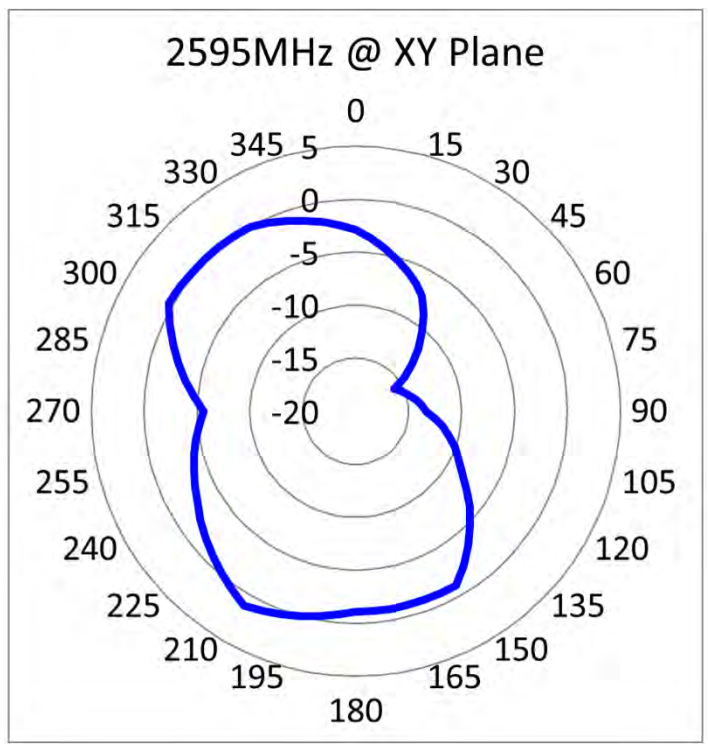
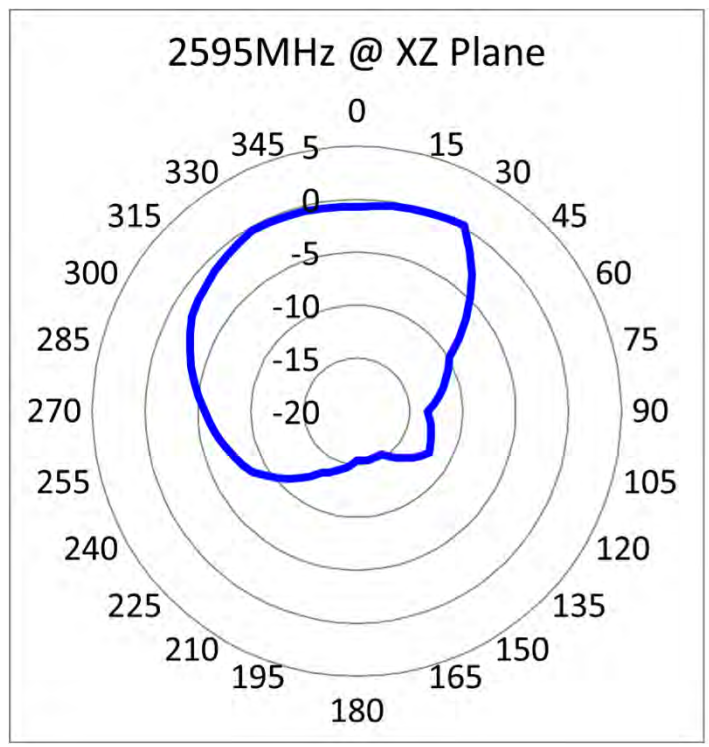
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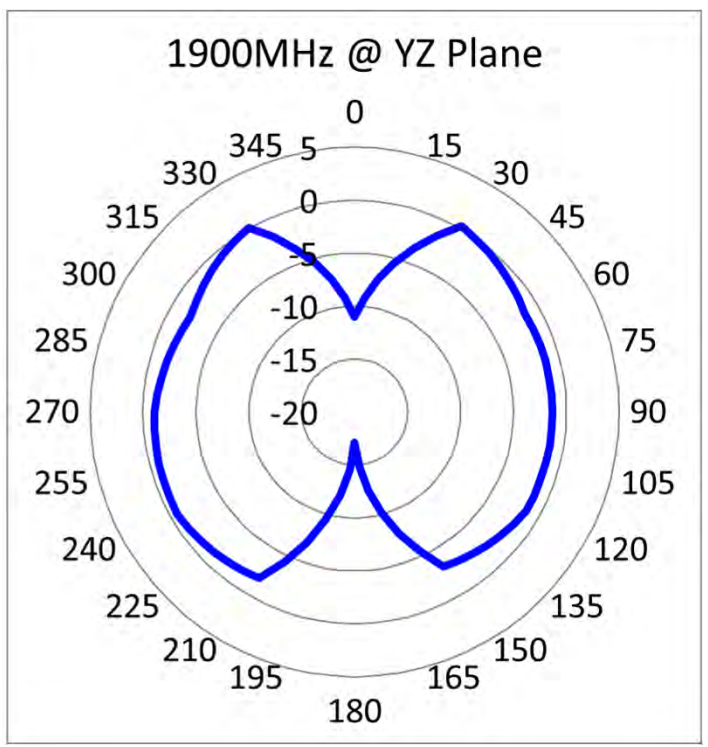
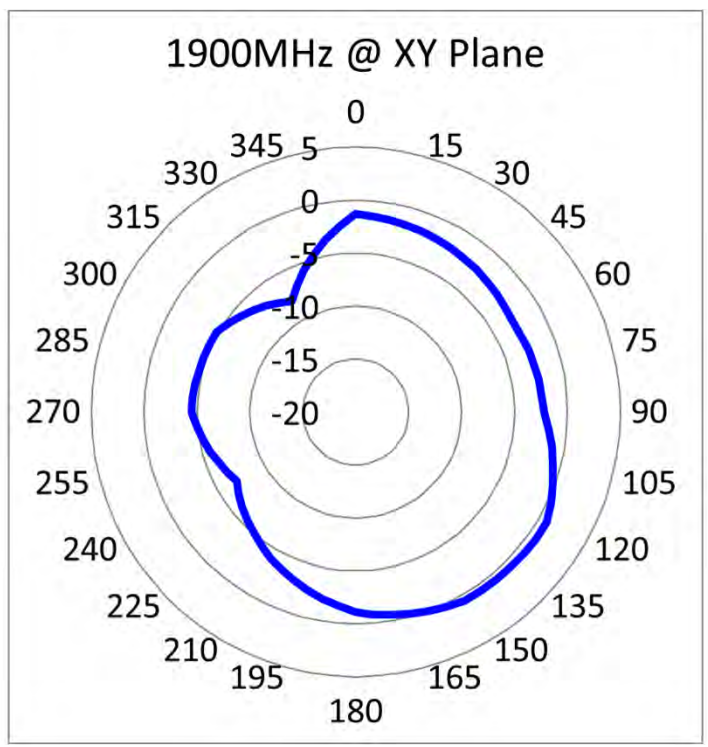
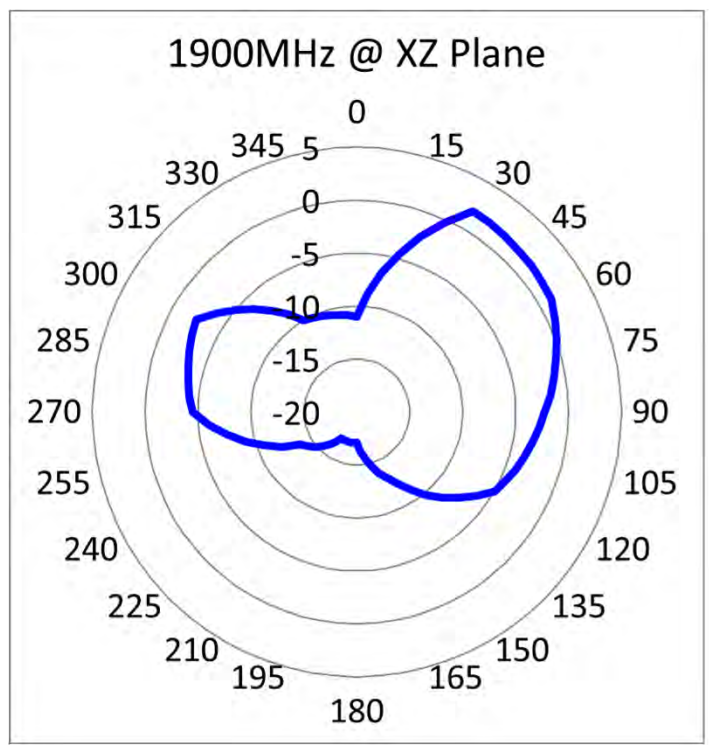
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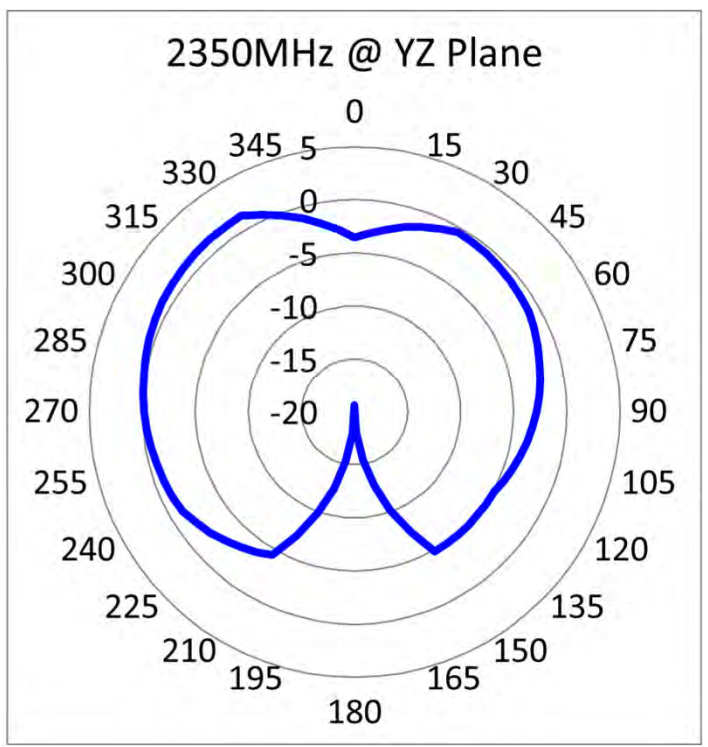
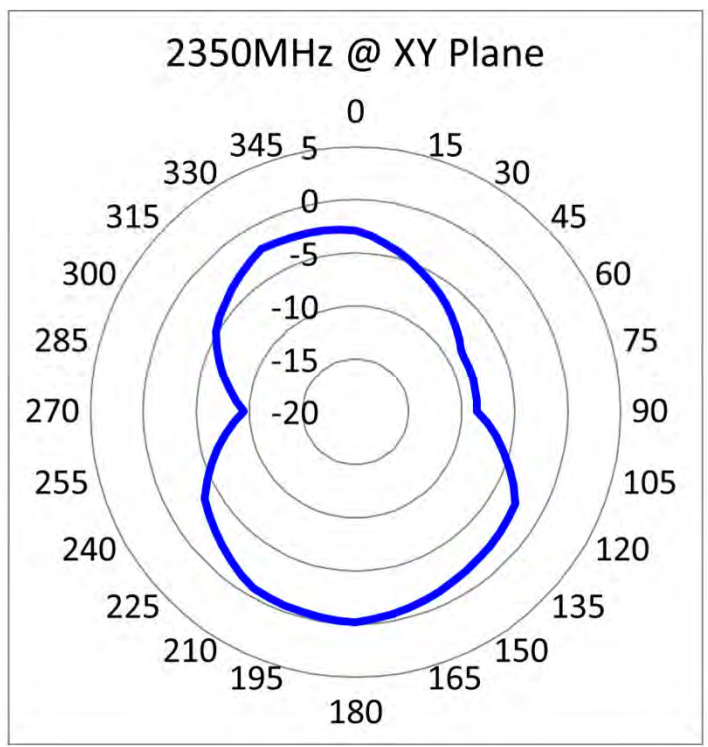
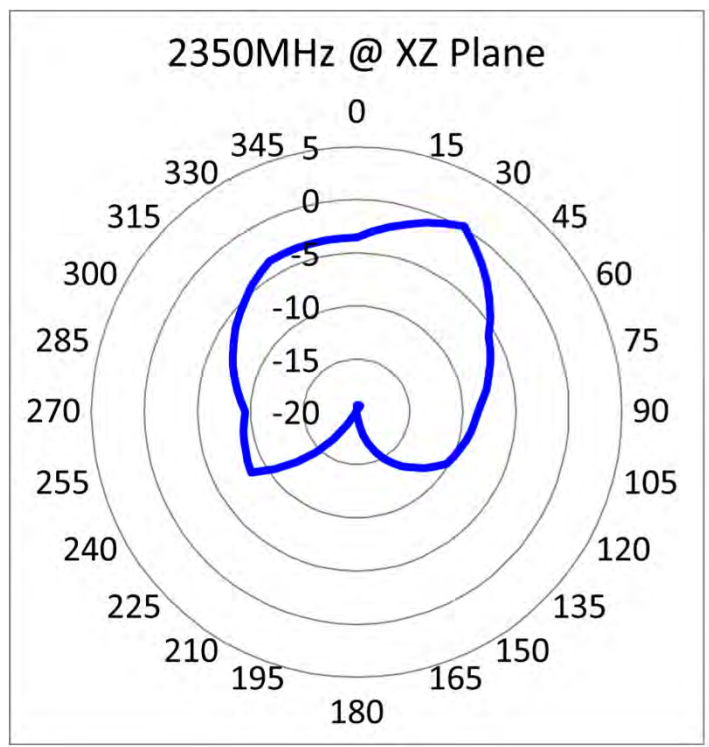
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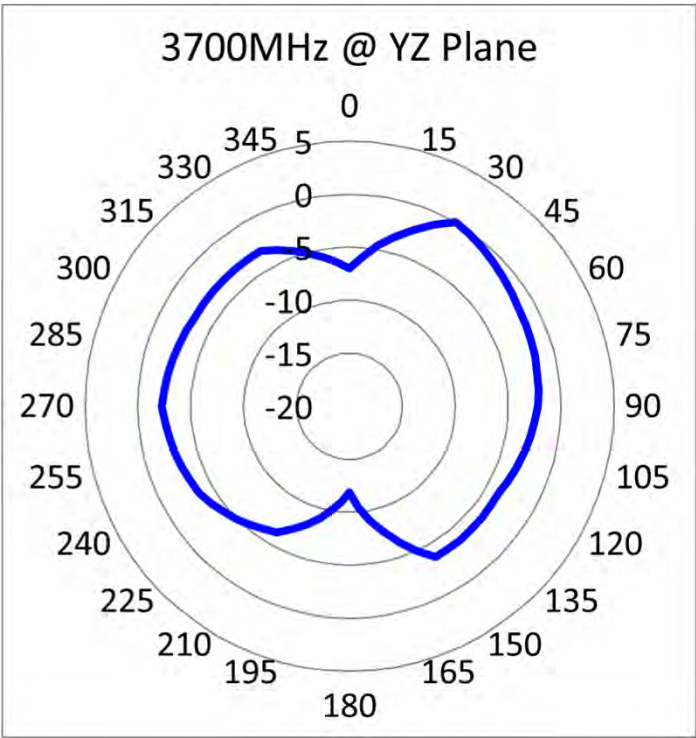
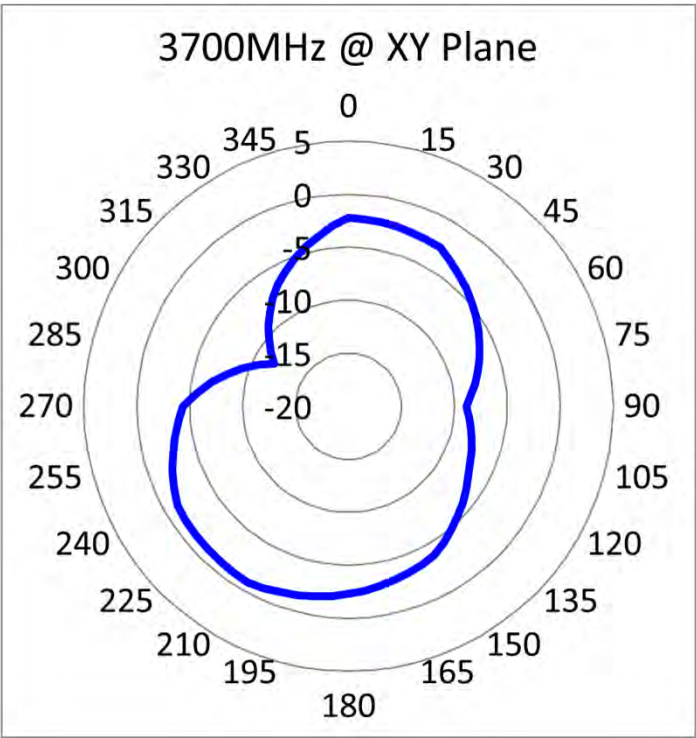
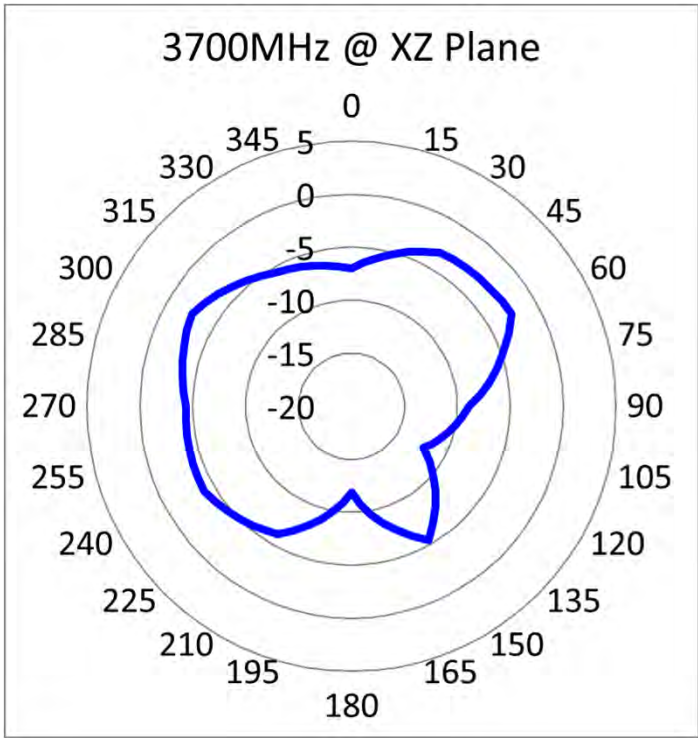
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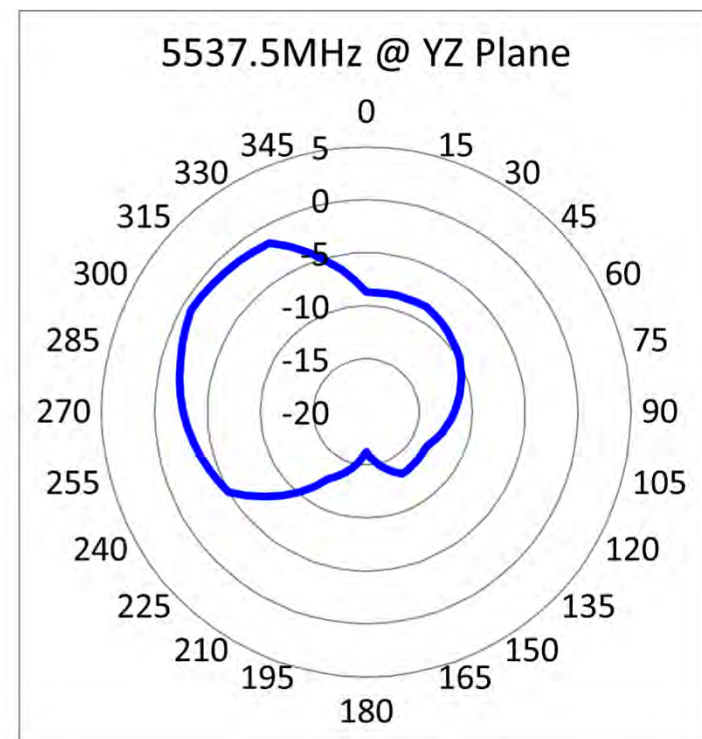
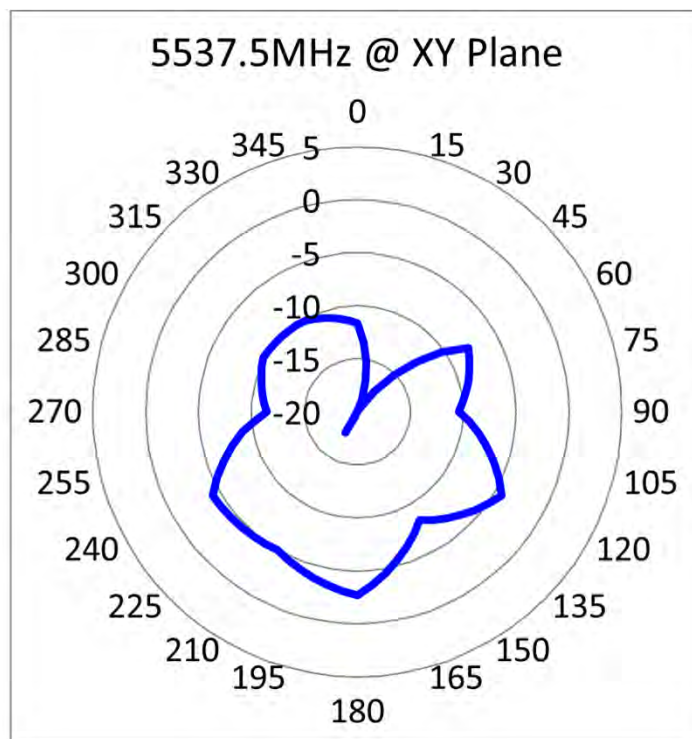
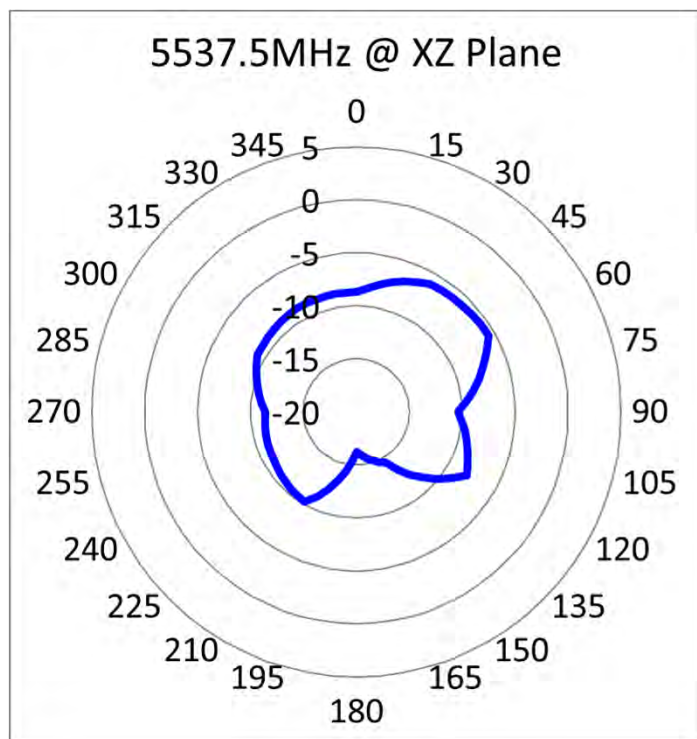
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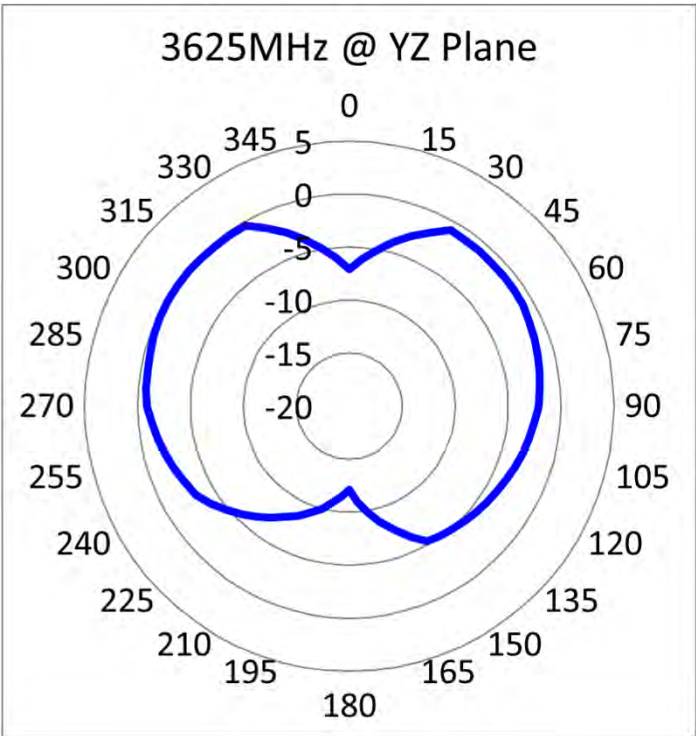
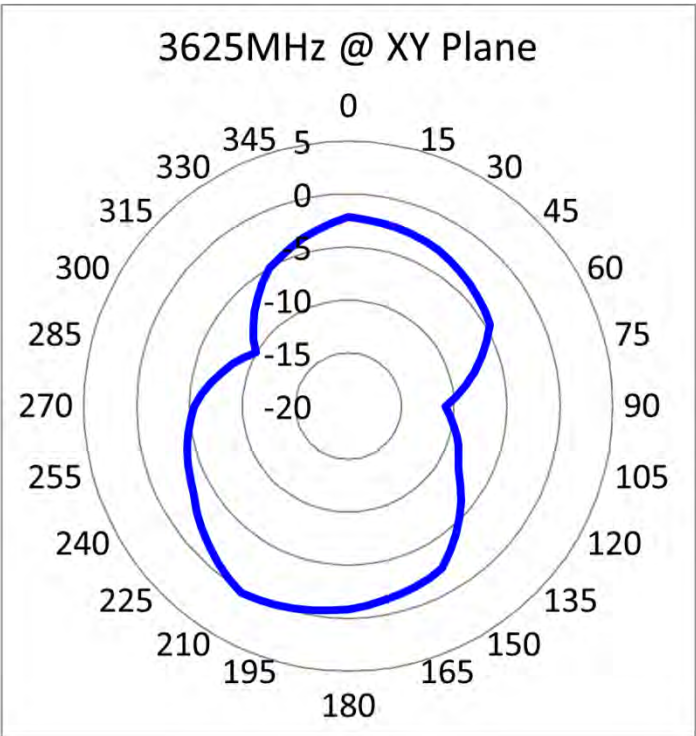
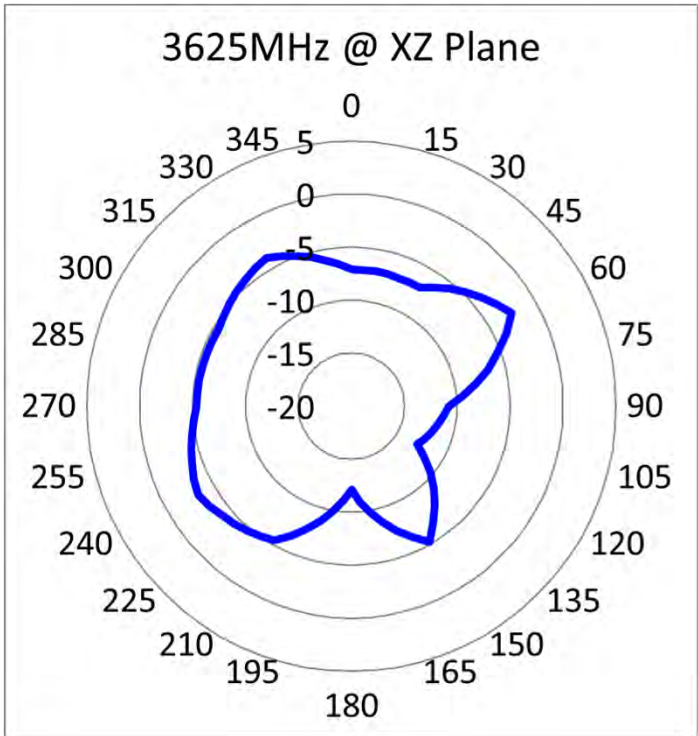
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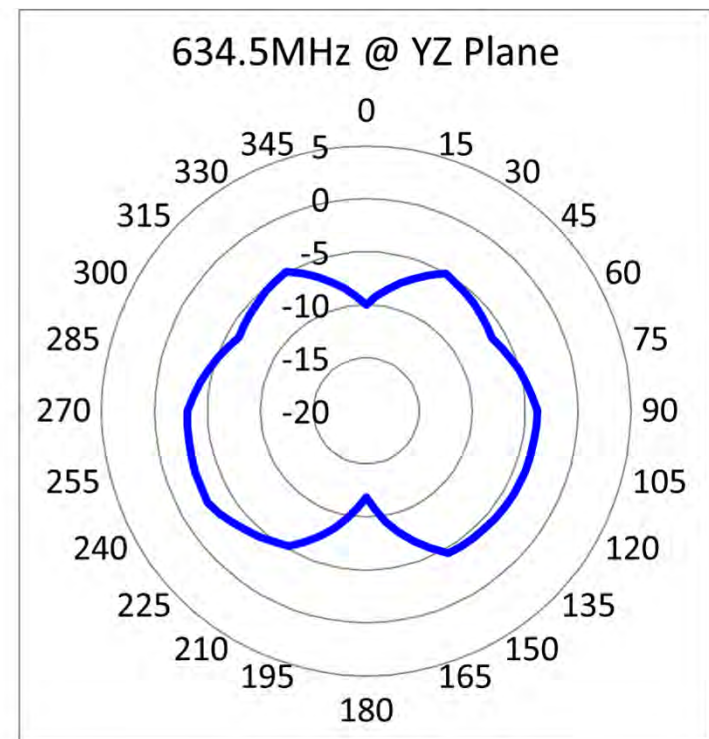
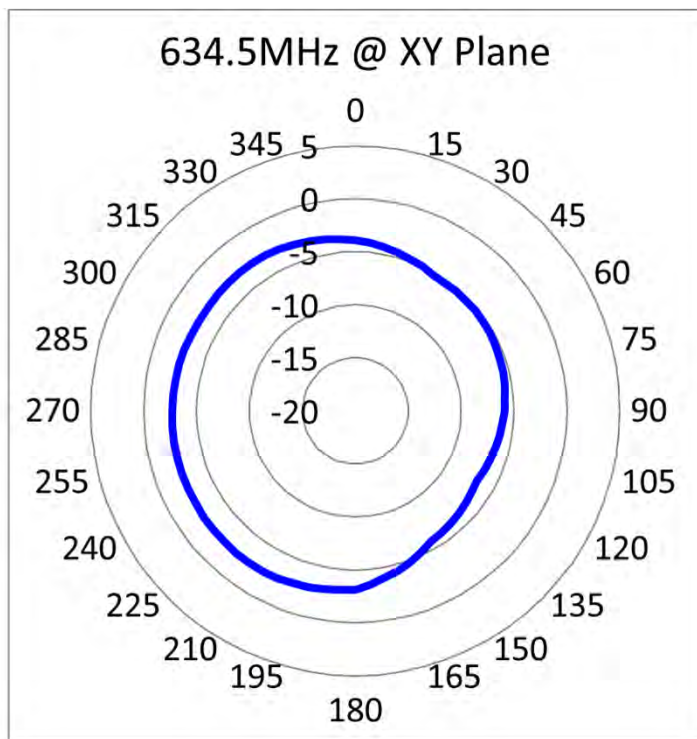
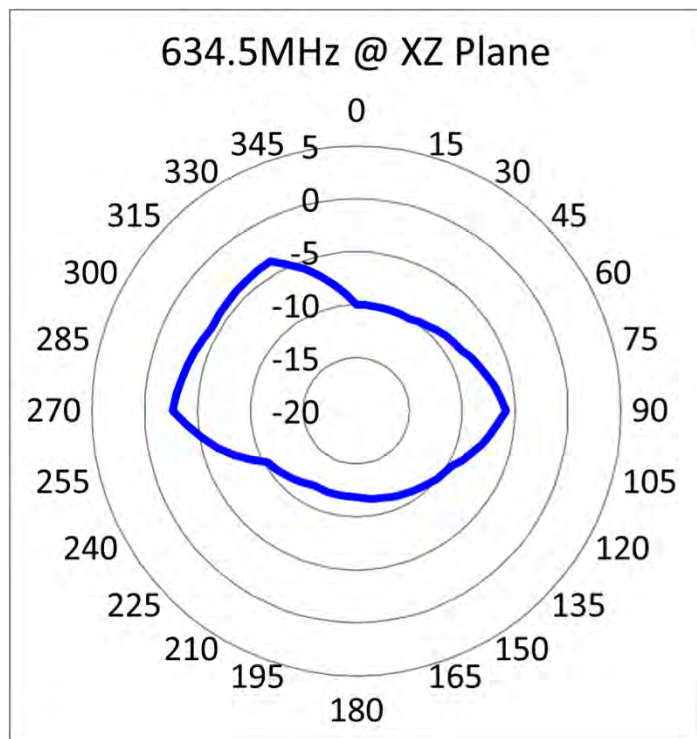
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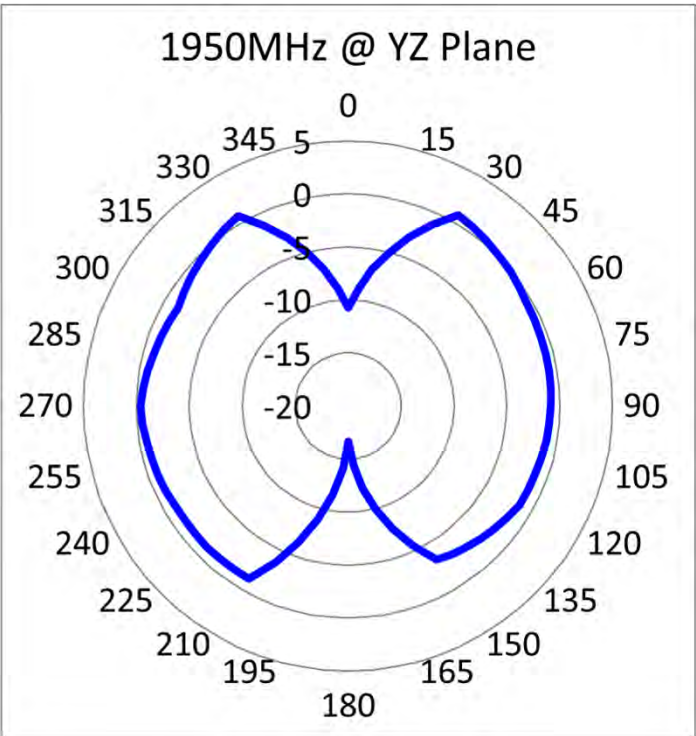
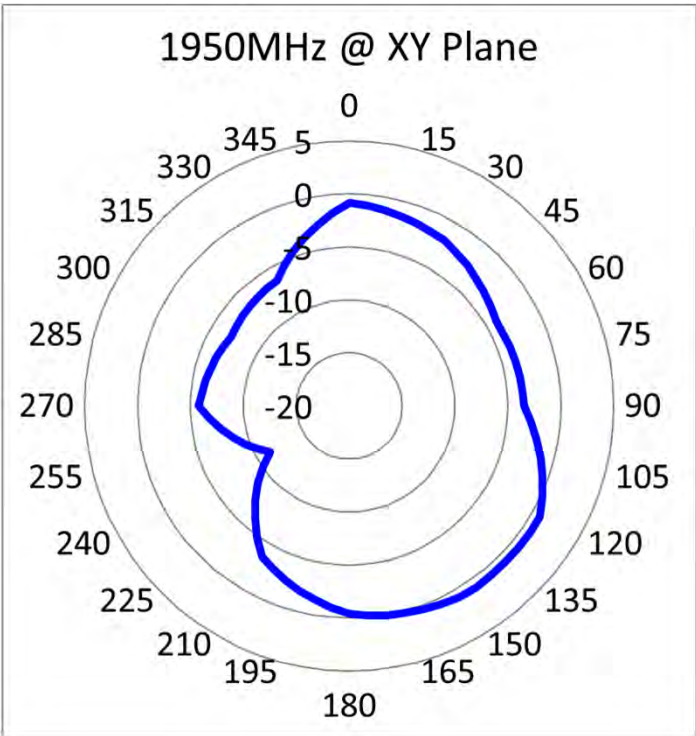
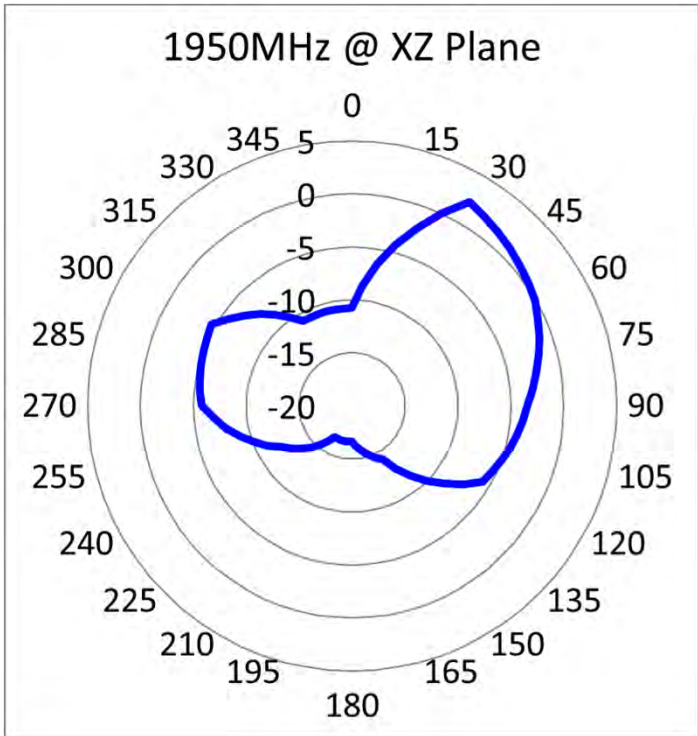
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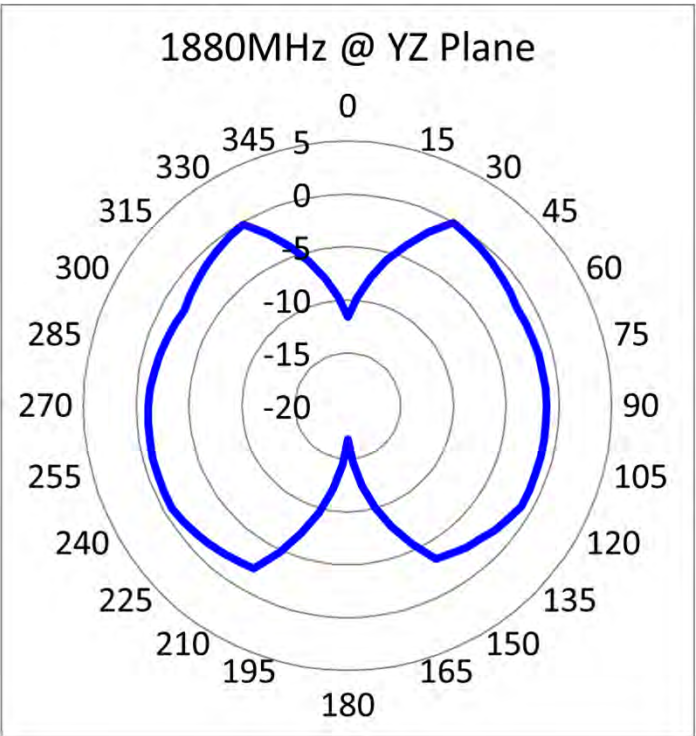
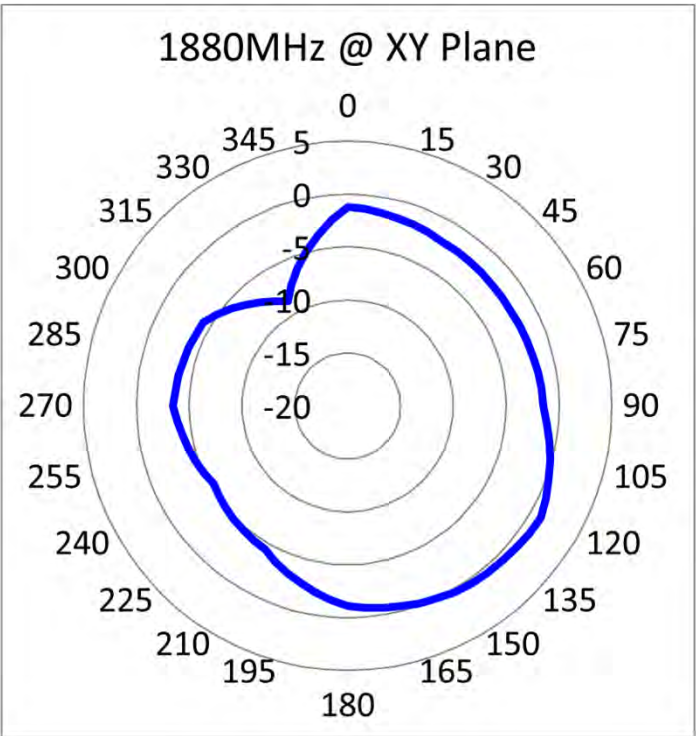
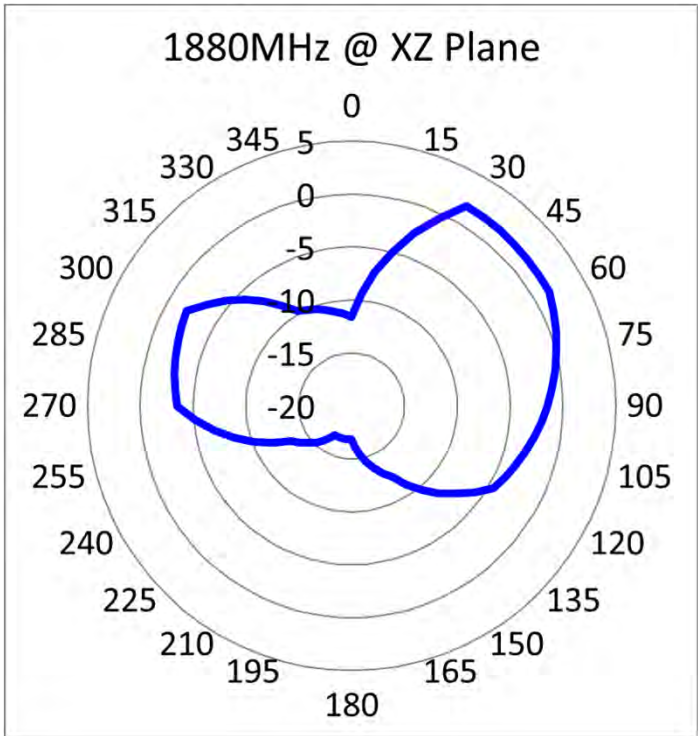
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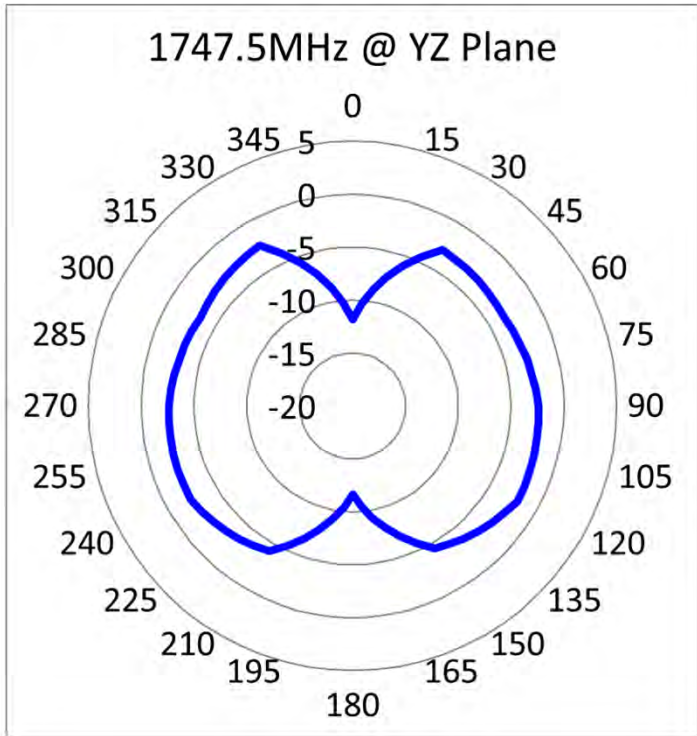
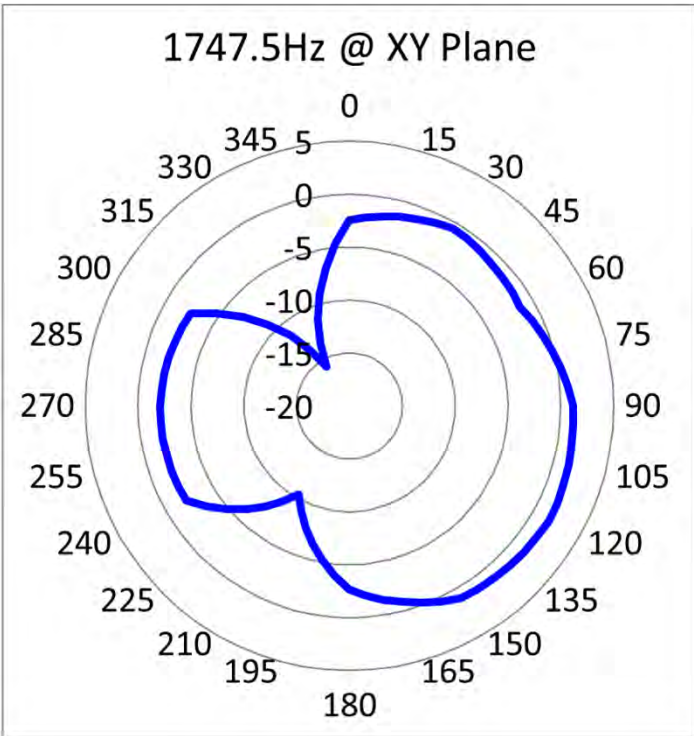
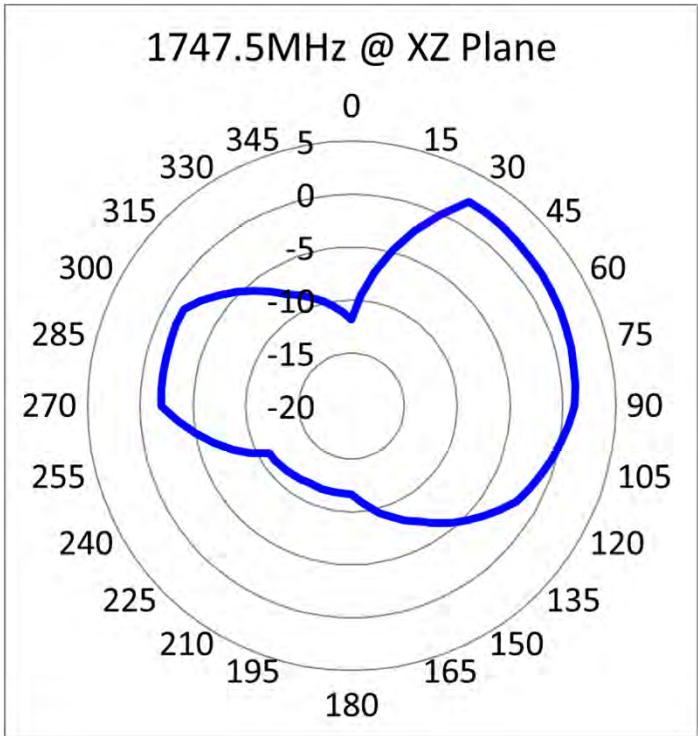
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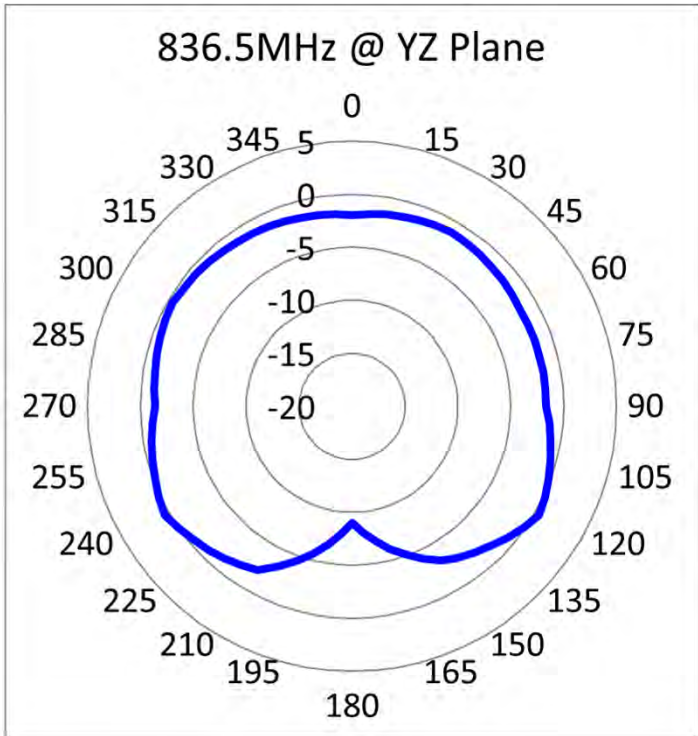
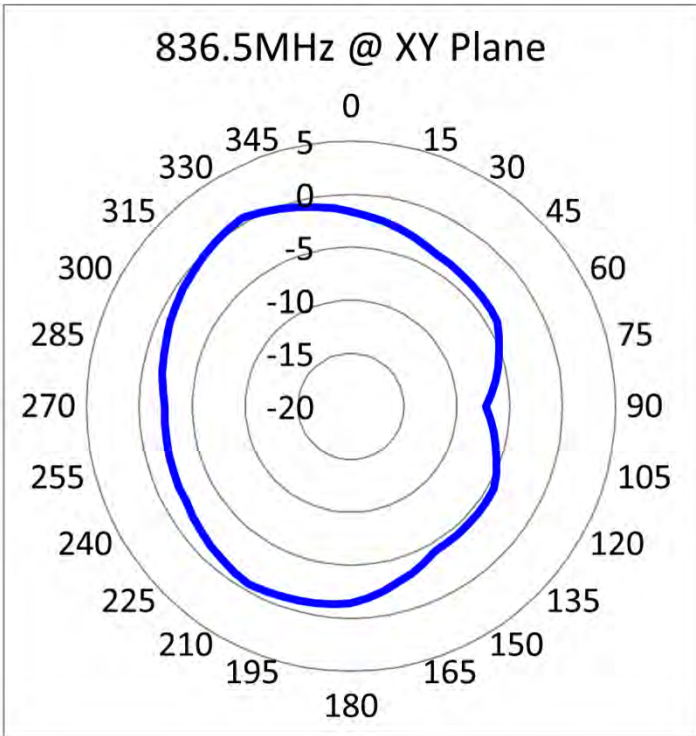
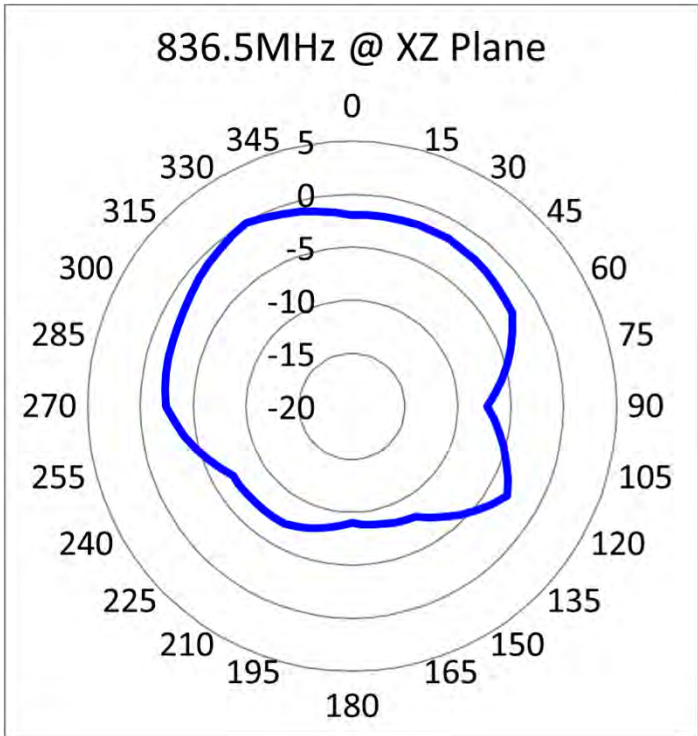
LTE Main Antenna 2D Radiation Pattern 1880 MHz (NR)



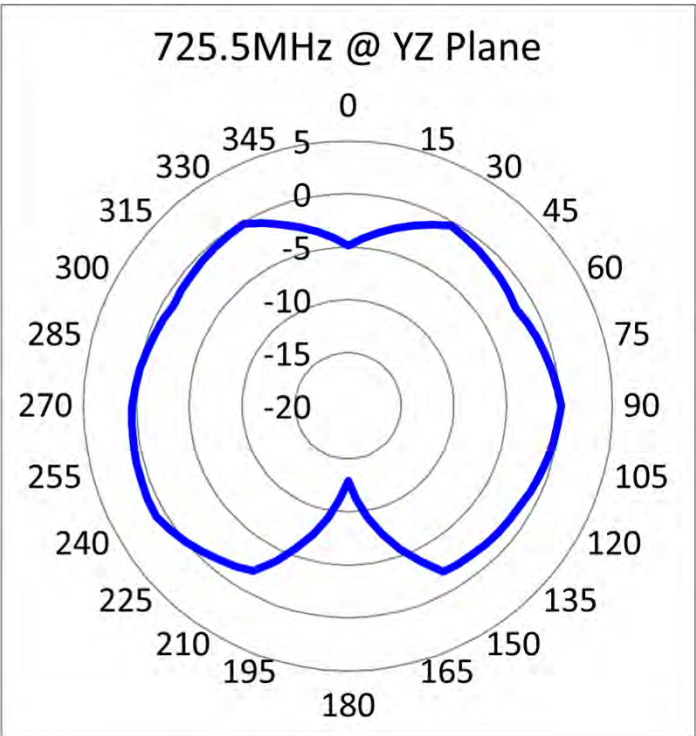
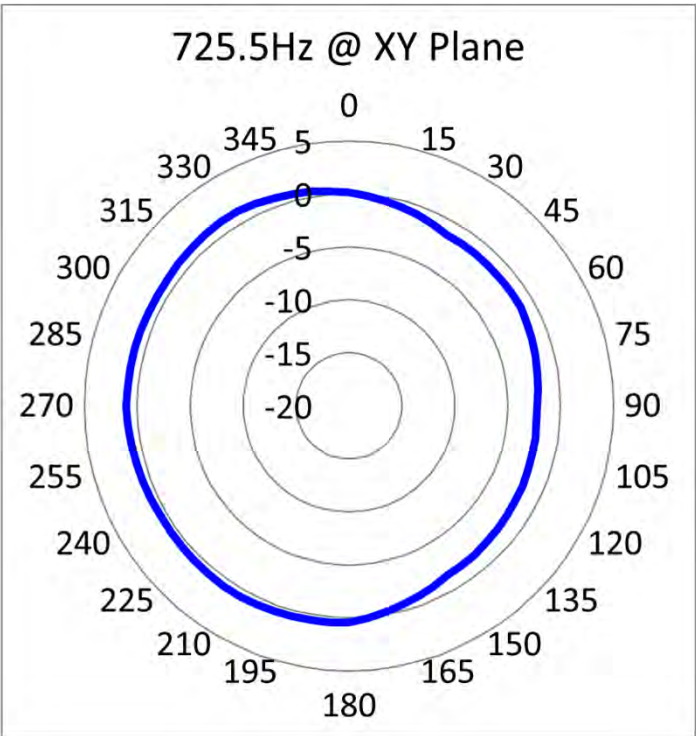
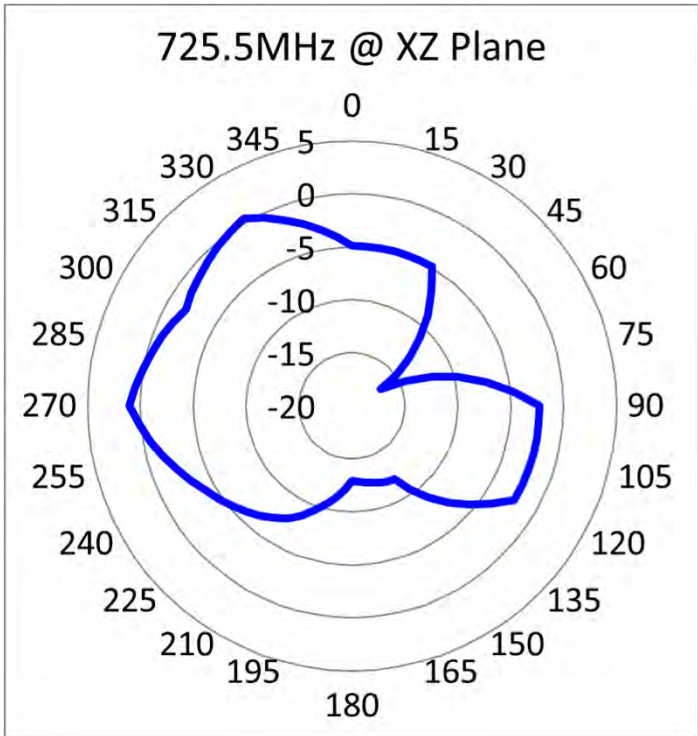
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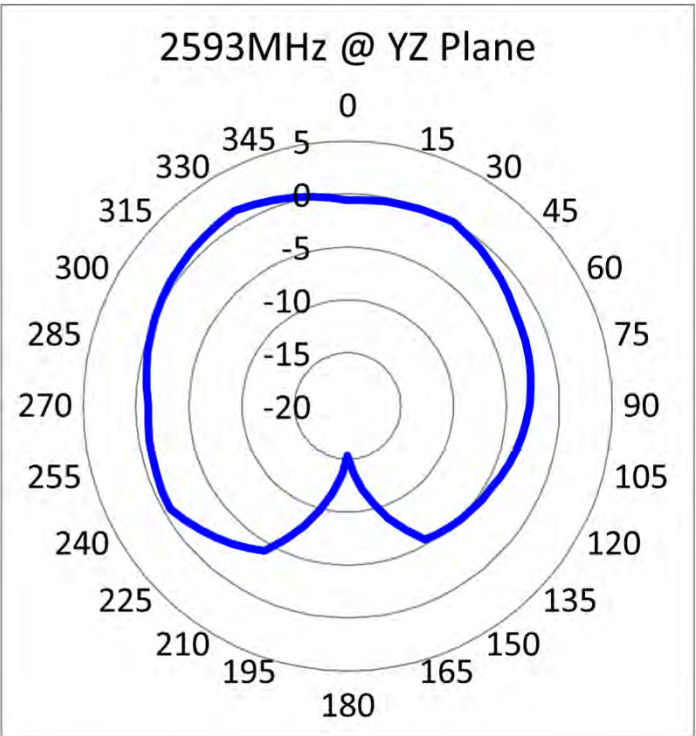
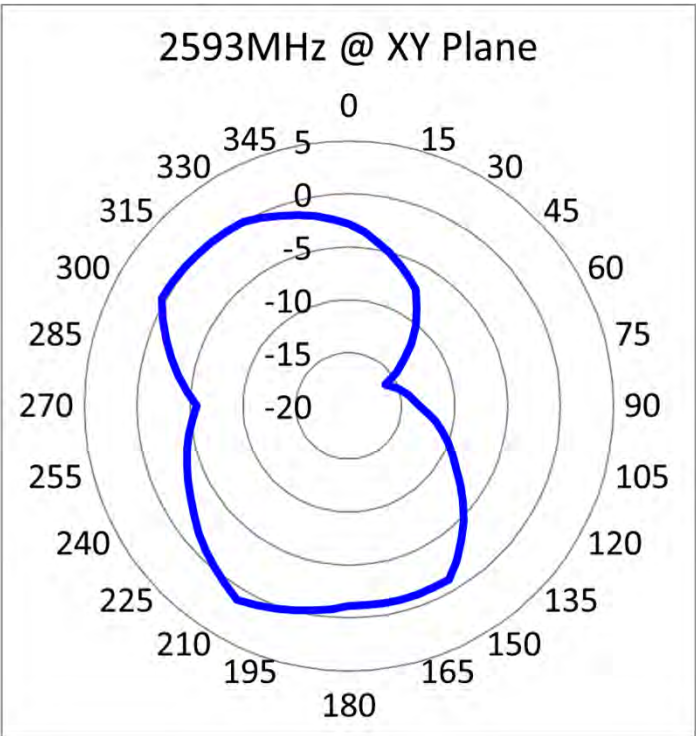
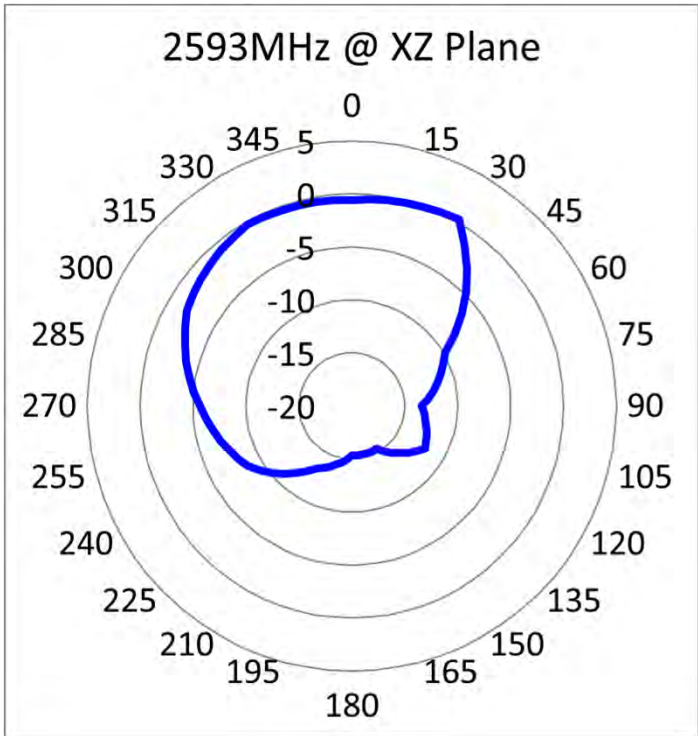
LTE Main Antenna 2D Radiation Pattern 836.5 MHz (NR)



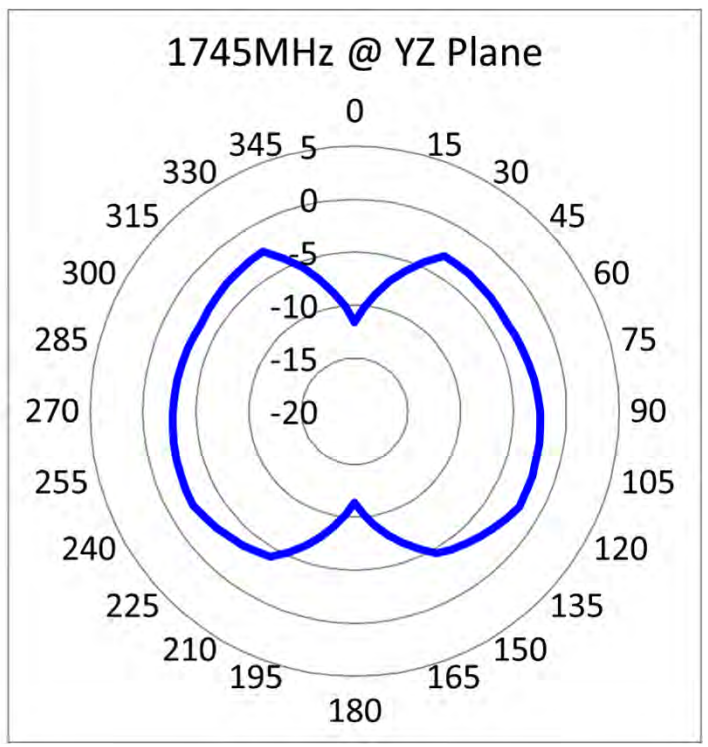
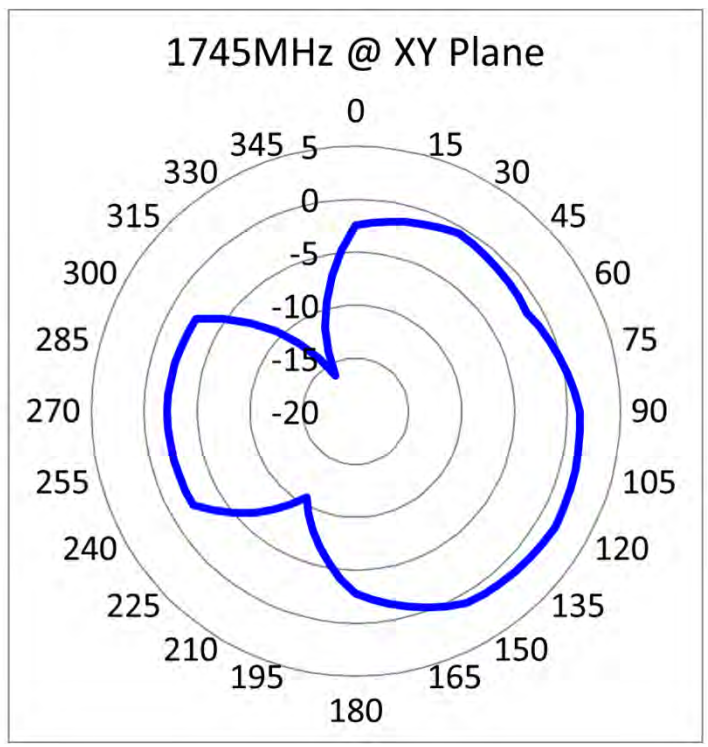
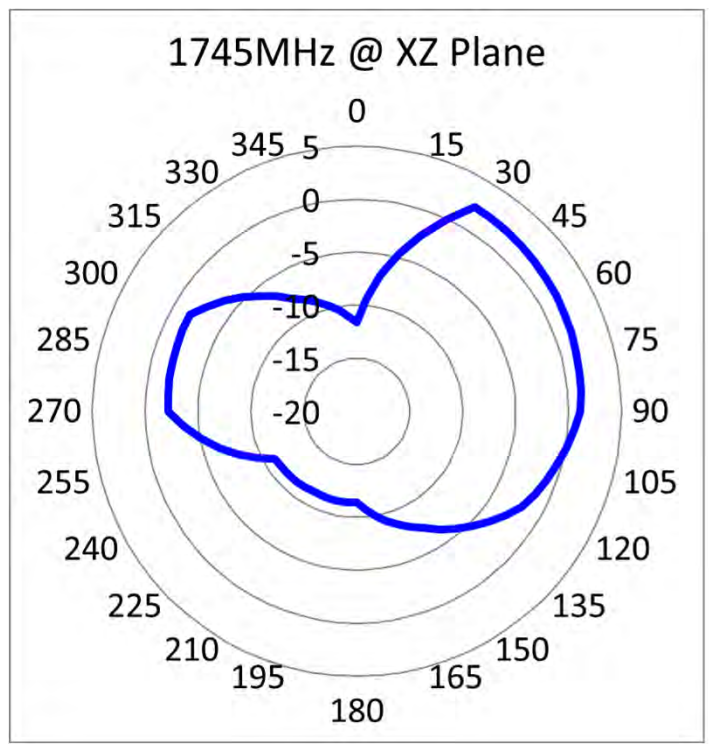
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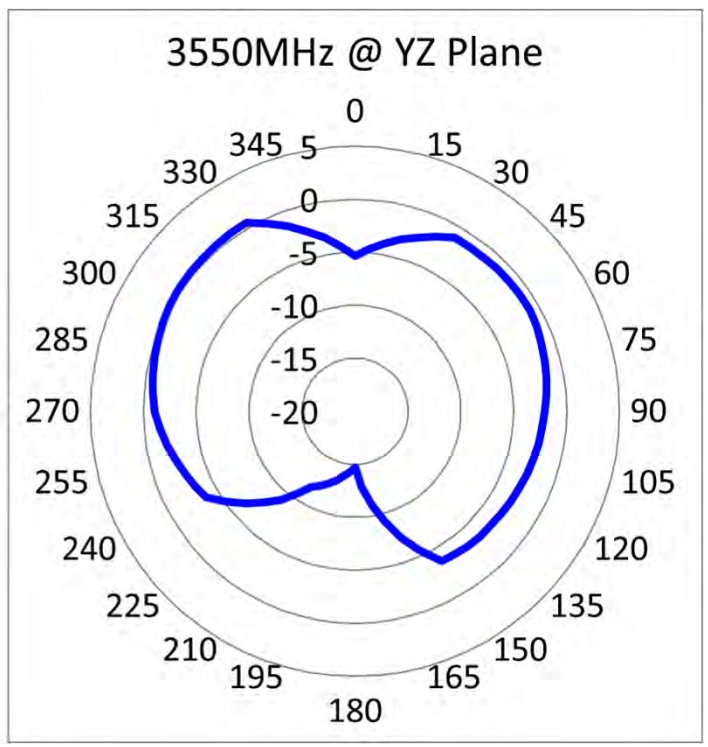
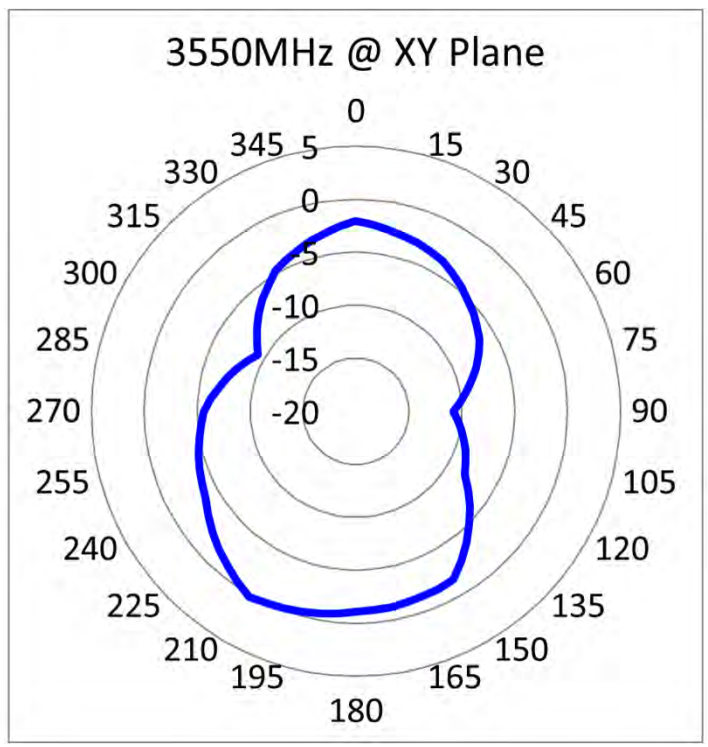
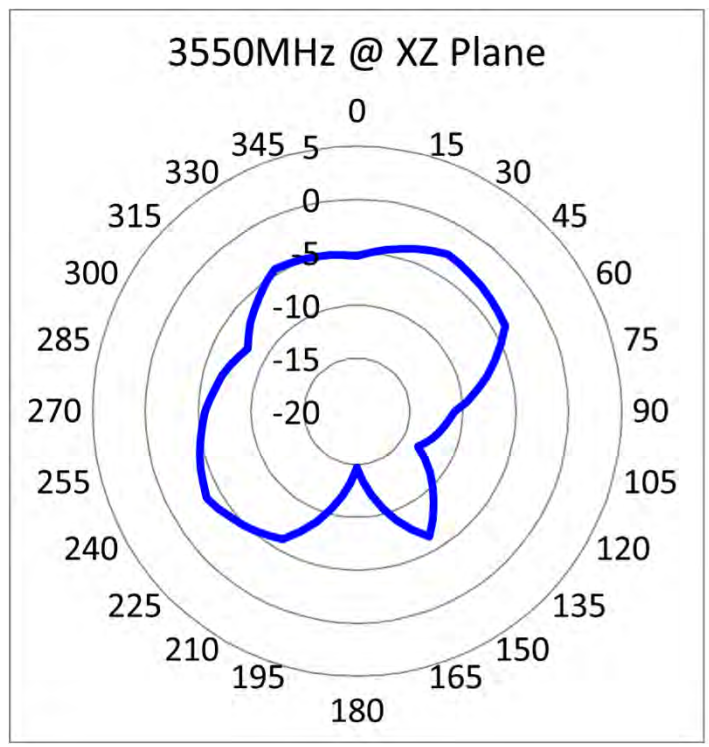
LTE Main Antenna 2D Radiation Pattern 2593 MHz (NR)



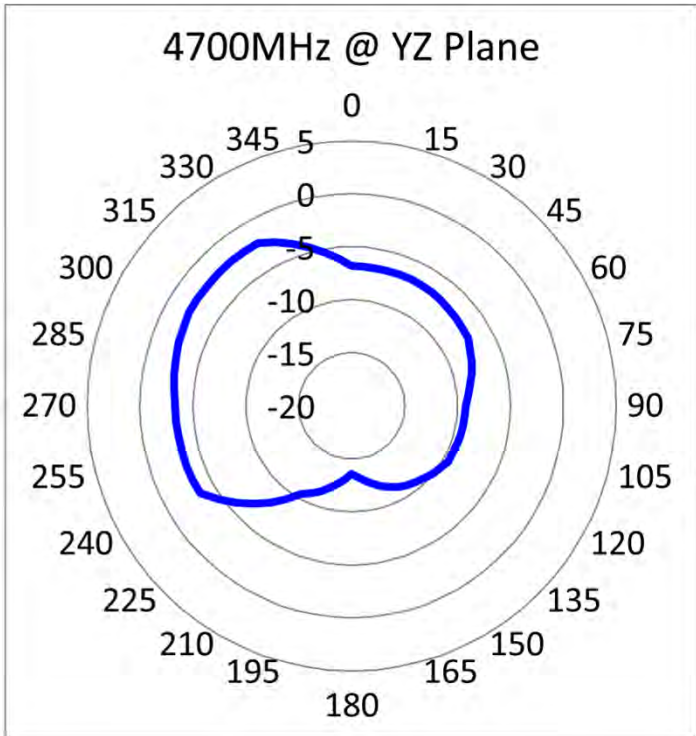
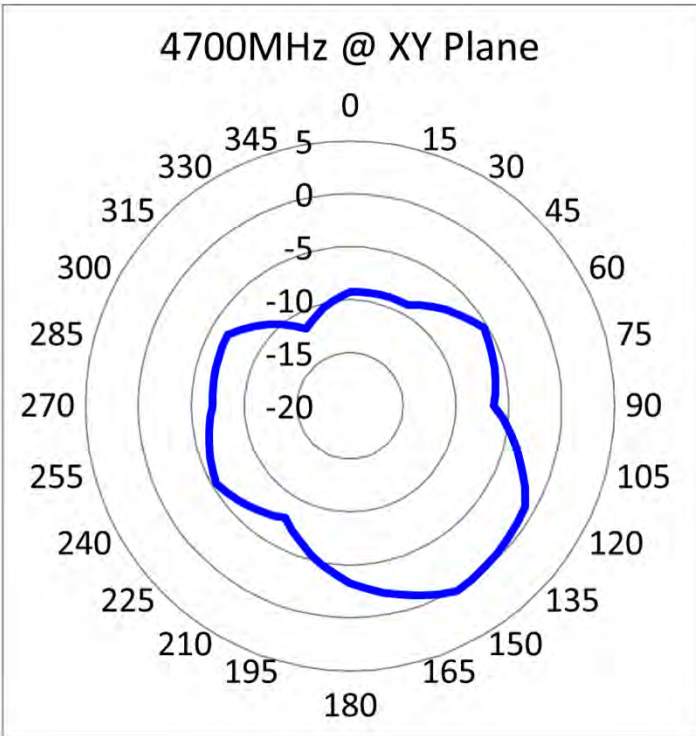
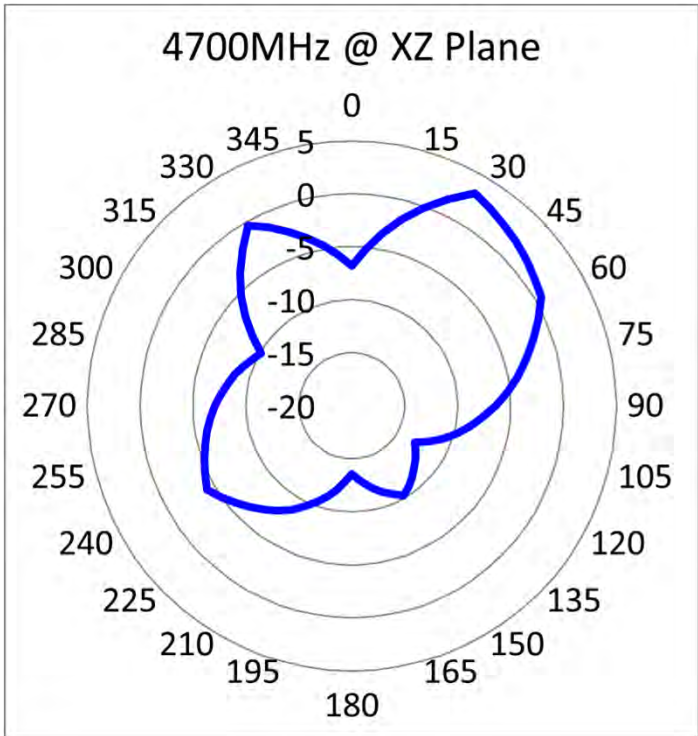
LTE Main Antenna 2D Radiation Pattern 1745 MHz (NR)



LTE Main Antenna 2D Radiation Pattern 3550 MHz (NR)



LTE Main Antenna 2D Radiation Pattern 4700 MHz (NR)

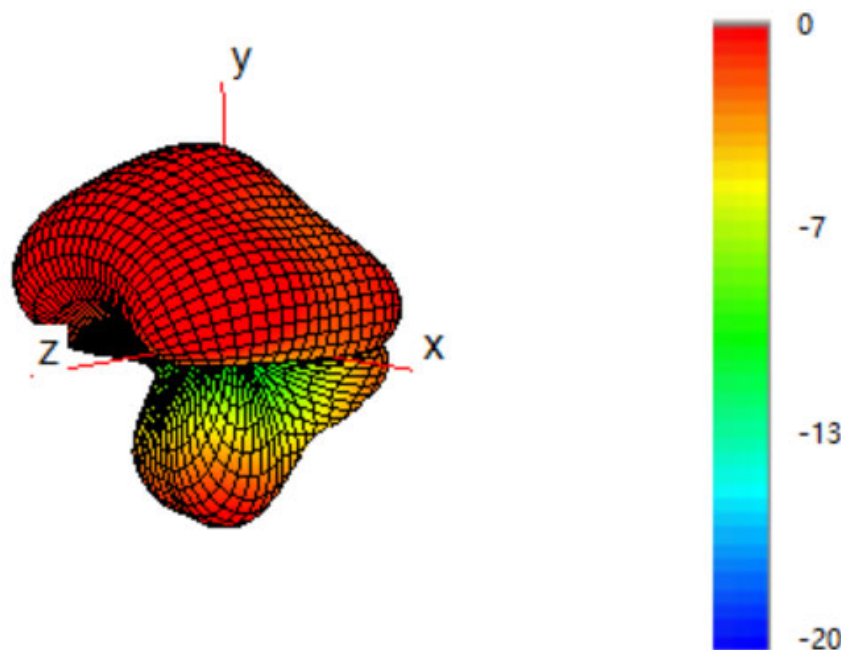


LTE Main Antenna 3D Radiation Pattern 1767.5 MHz (WCDMA)

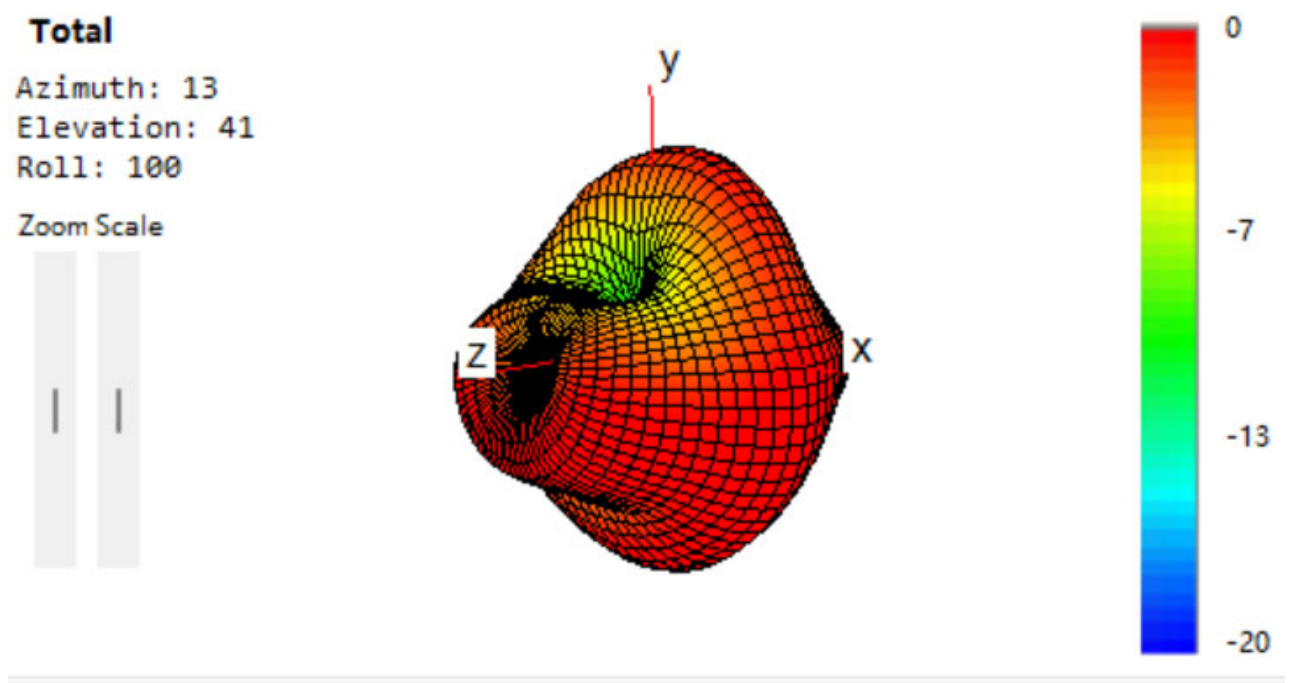
Total

Azimuth: 13
Elevation: 41
Roll: 100

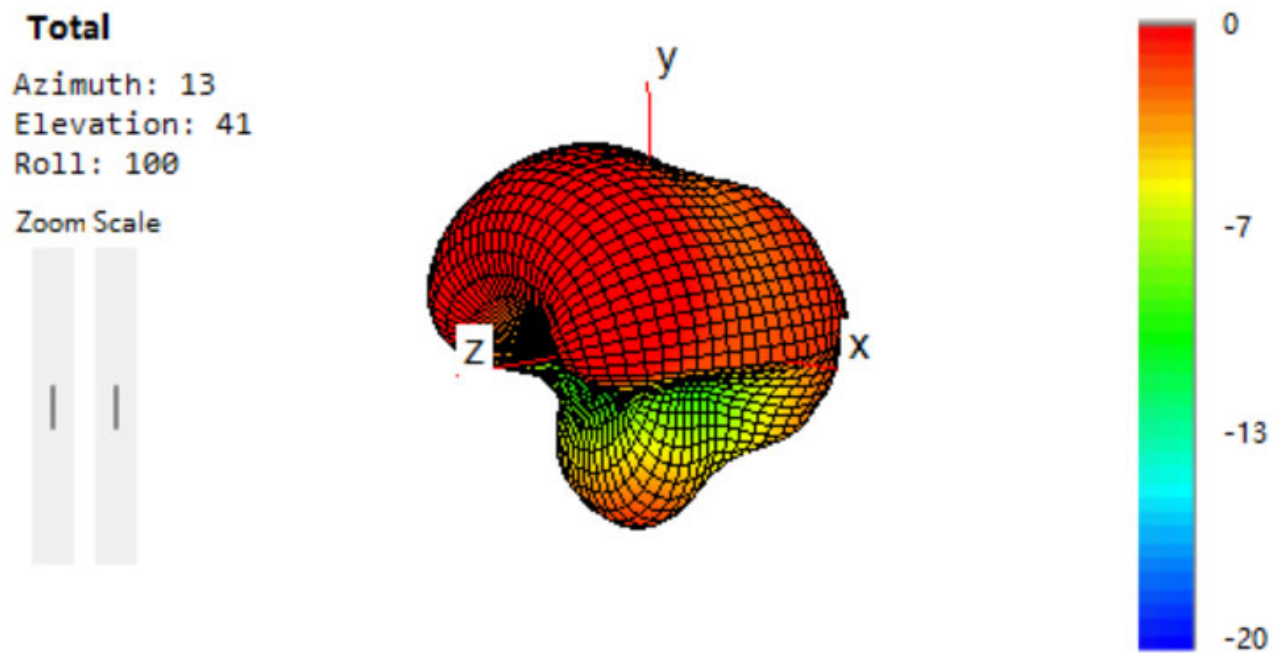
Zoom Scale



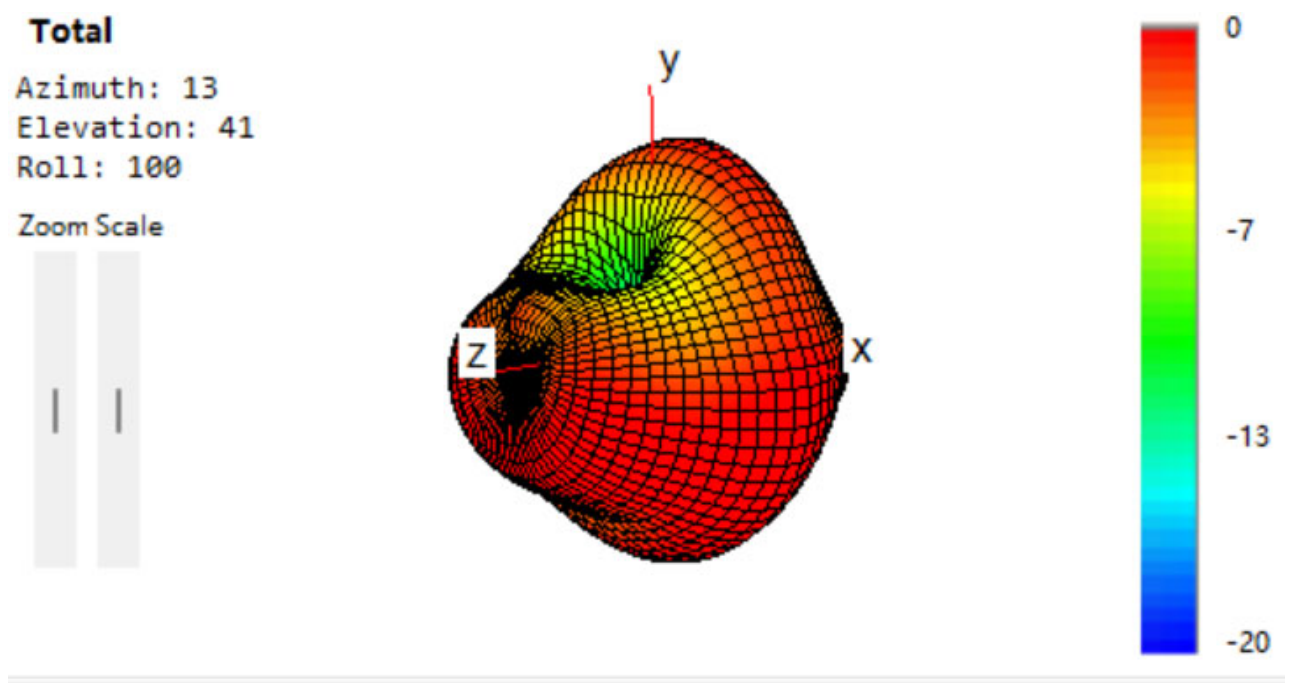
LTE Main Antenna 3D Radiation Pattern 710 MHz (LTE)



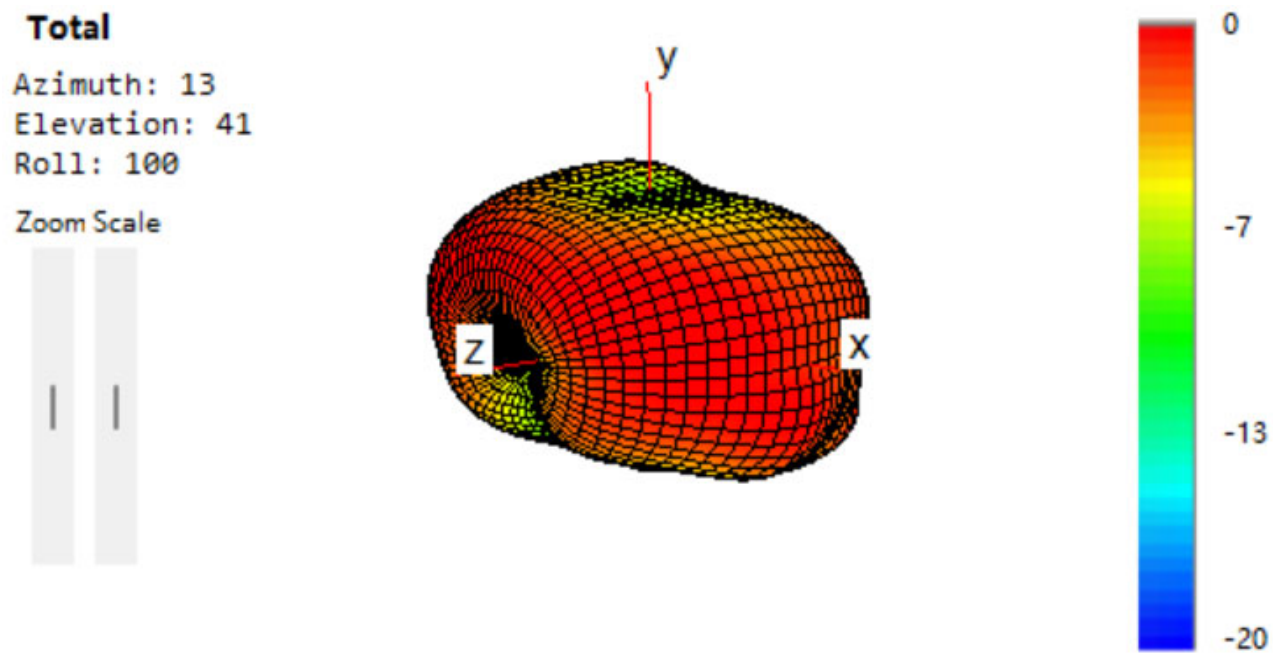
LTE Main Antenna 3D Radiation Pattern 1882.5 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 722.5 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 2310 MHz (LTE)

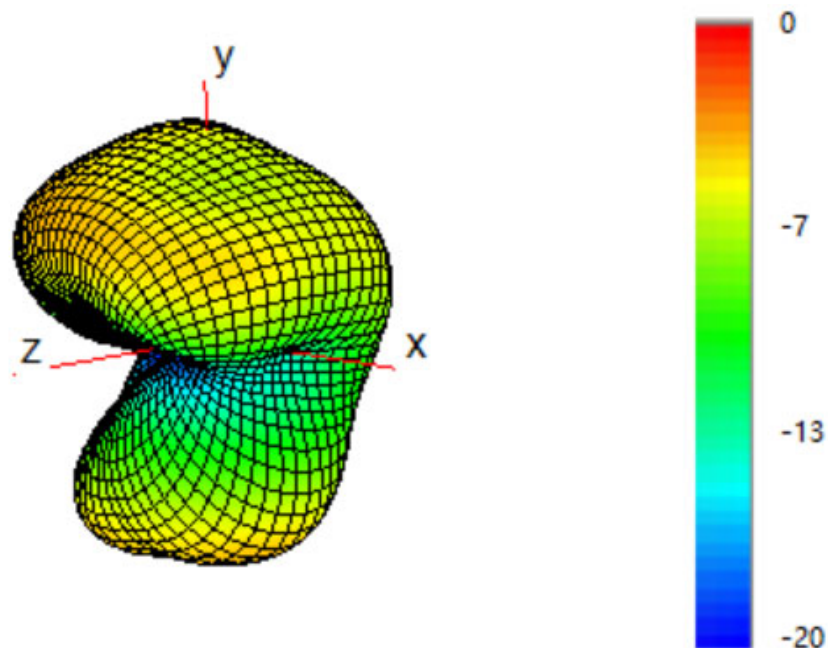


LTE Main Antenna 3D Radiation Pattern 1474 MHz (LTE)

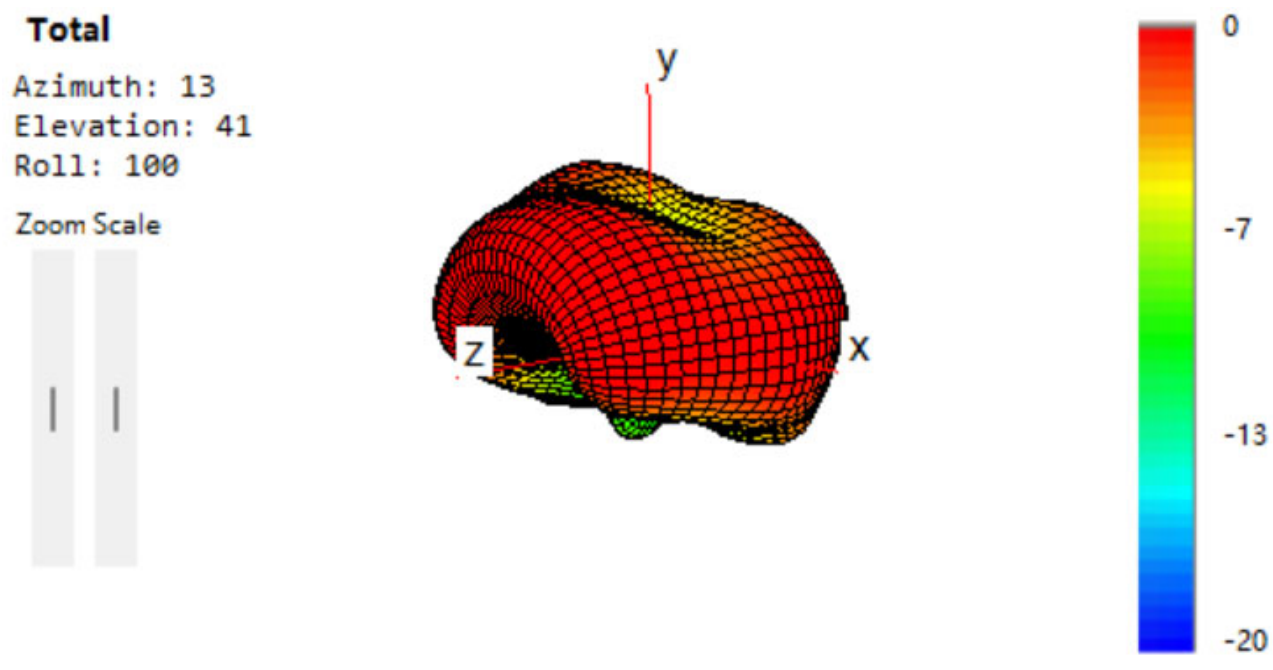
Total

Azimuth: 13
Elevation: 41
Roll: 100

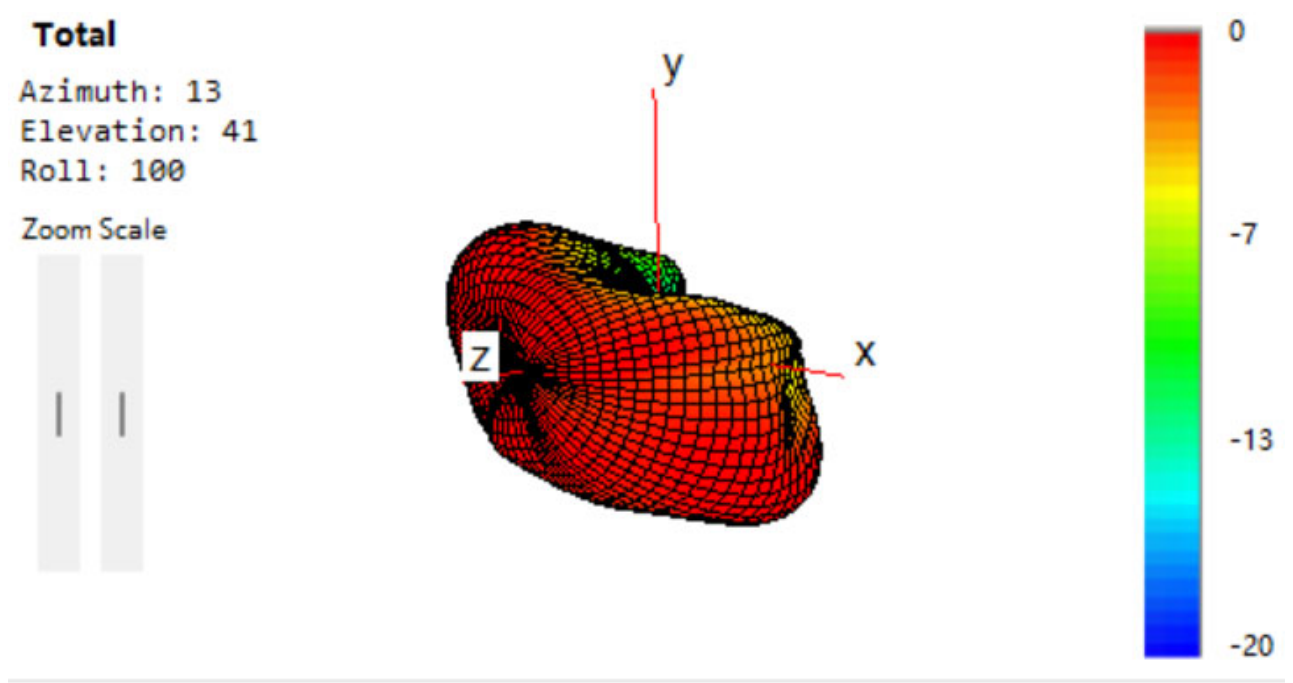
Zoom Scale



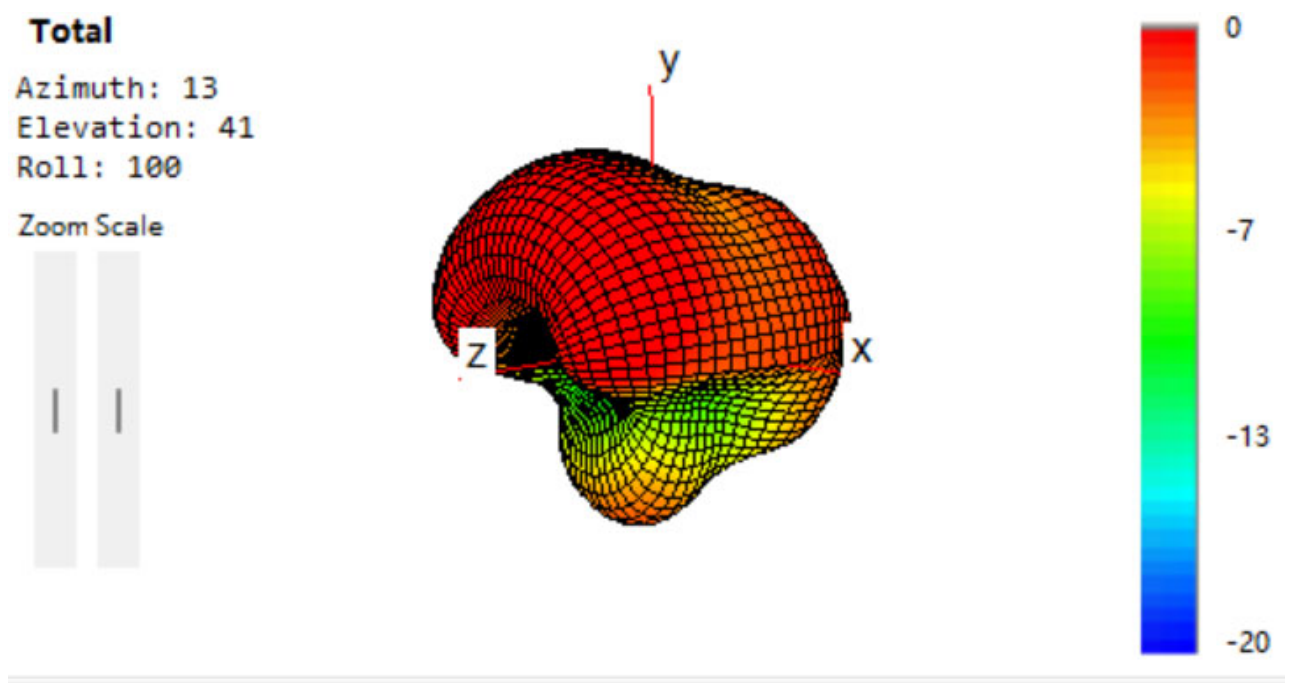
LTE Main Antenna 3D Radiation Pattern 2017.5 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 2595 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 1900 MHz (LTE)

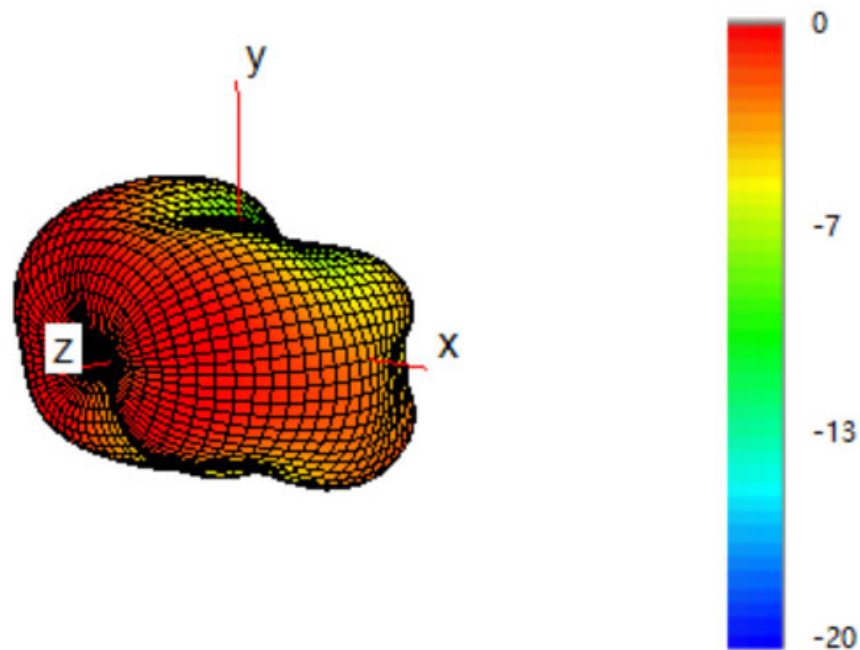


LTE Main Antenna 3D Radiation Pattern 2350 MHz (LTE)

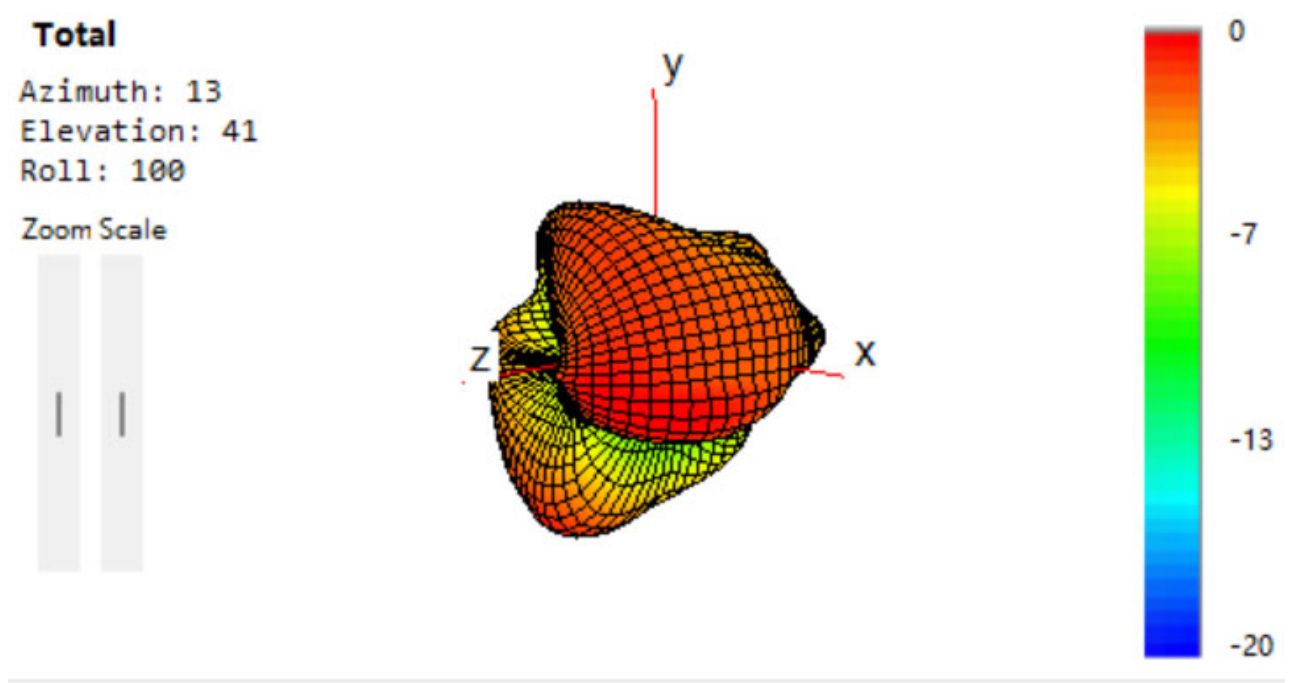
Total

Azimuth: 13
Elevation: 41
Roll: 100

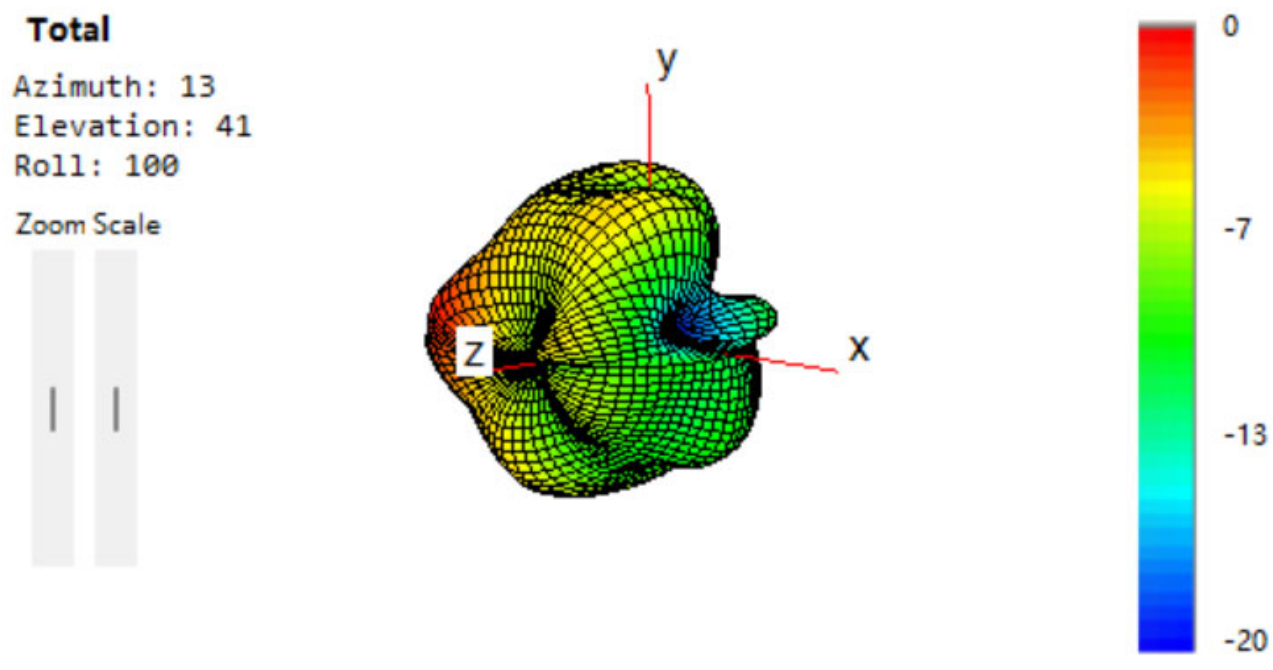
Zoom Scale



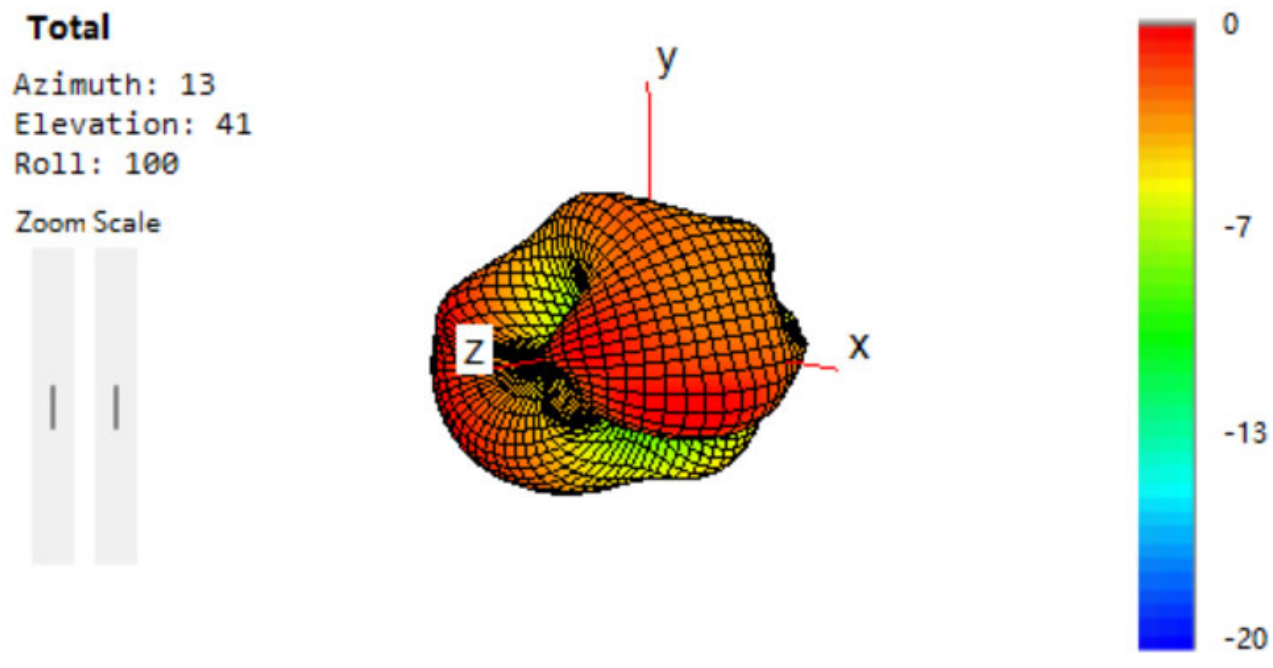
LTE Main Antenna 3D Radiation Pattern 3700 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 5537.5 MHz (LTE)



LTE Main Antenna 3D Radiation Pattern 3625 MHz (LTE/NR)

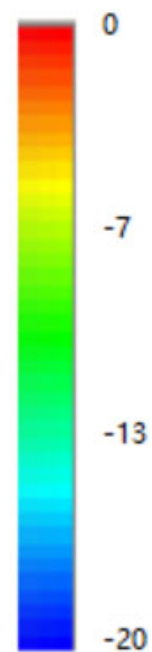
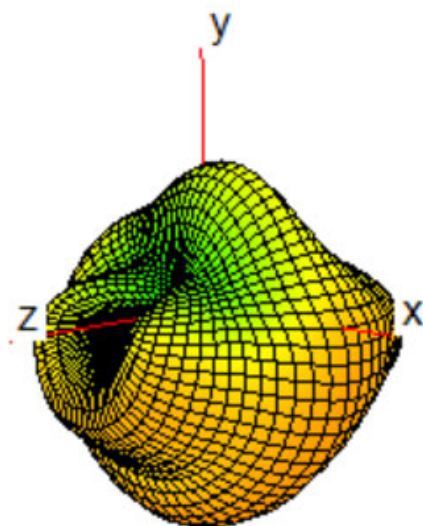


LTE Main Antenna 3D Radiation Pattern 634.5 MHz (LTE/NR)auden

Total

Azimuth: 13
Elevation: 41
Roll: 100

Zoom Scale

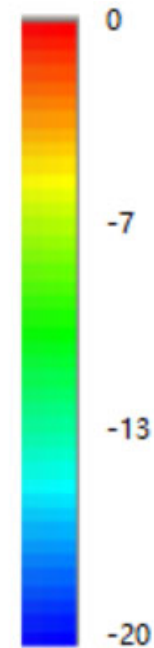
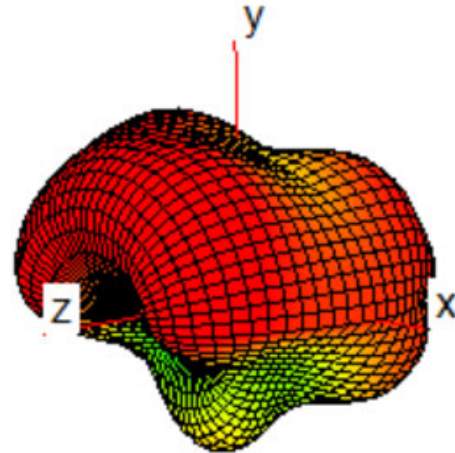


LTE Main Antenna 3D Radiation Pattern 1950 MHz (NR)

Total

Azimuth: 13
Elevation: 41
Roll: 100

Zoom Scale

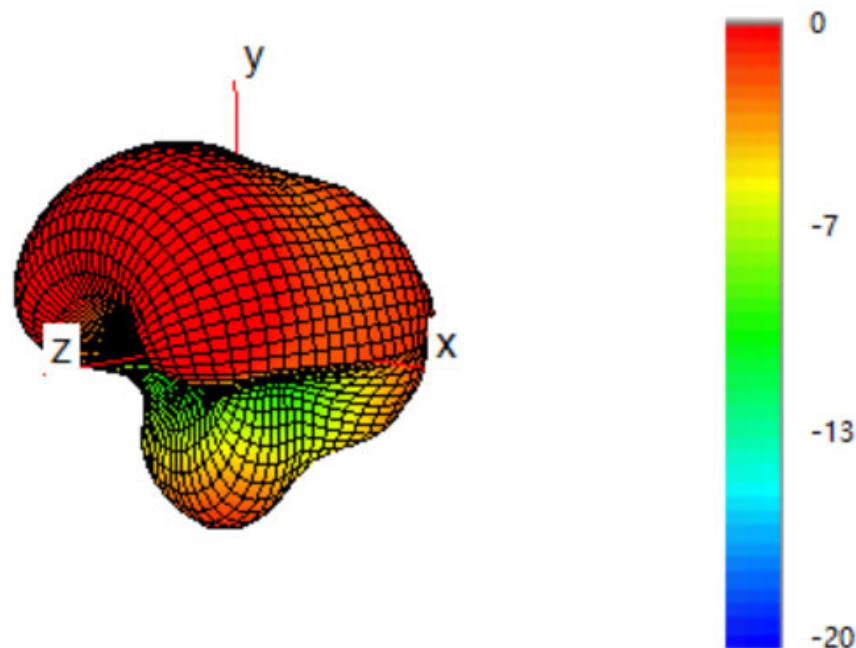


LTE Main Antenna 3D Radiation Pattern 1880 MHz (NR)

Total

Azimuth: 13
Elevation: 41
Roll: 100

Zoom Scale

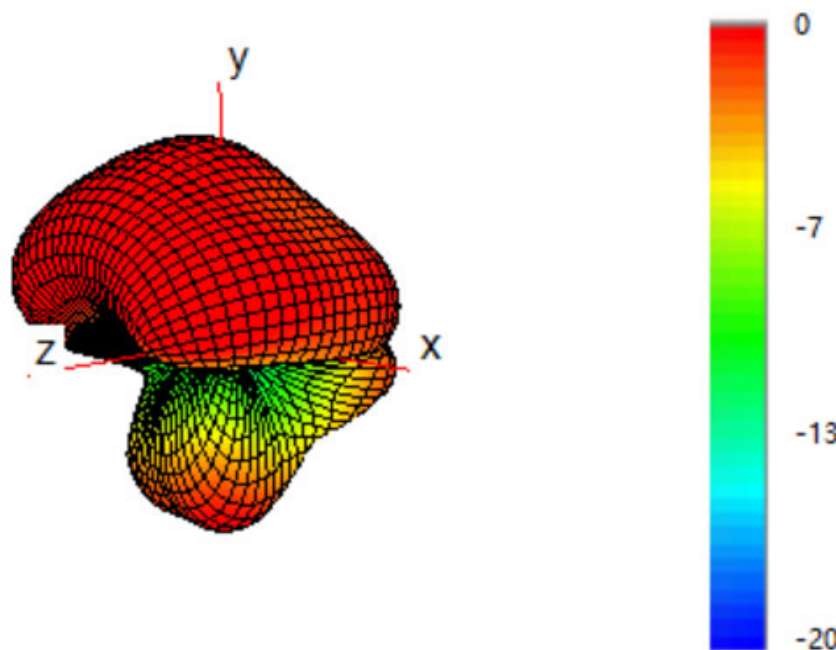


LTE Main Antenna 3D Radiation Pattern 1747.5 MHz (NR)

Total

Azimuth: 13
Elevation: 41
Roll: 100

Zoom Scale

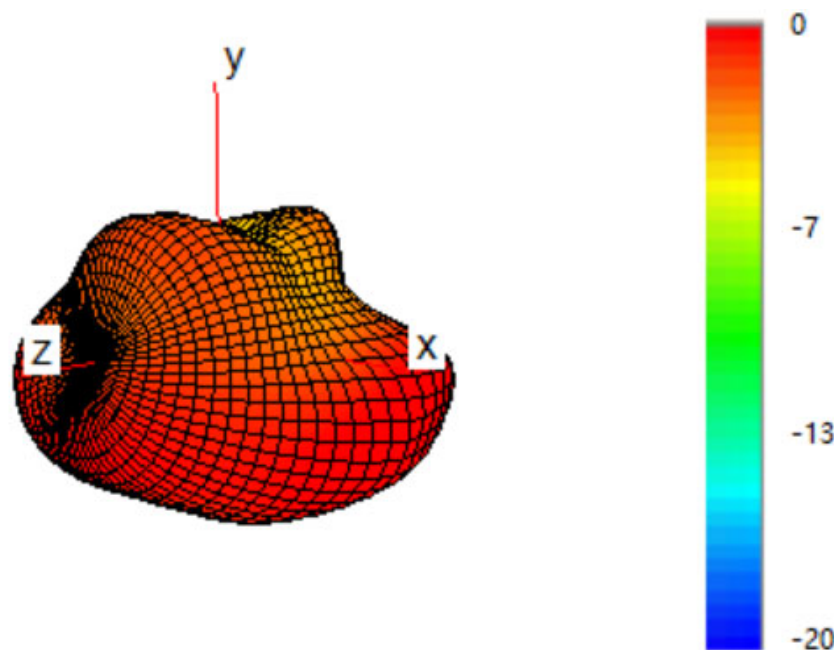


LTE Main Antenna 3D Radiation Pattern 836.5 MHz (NR)

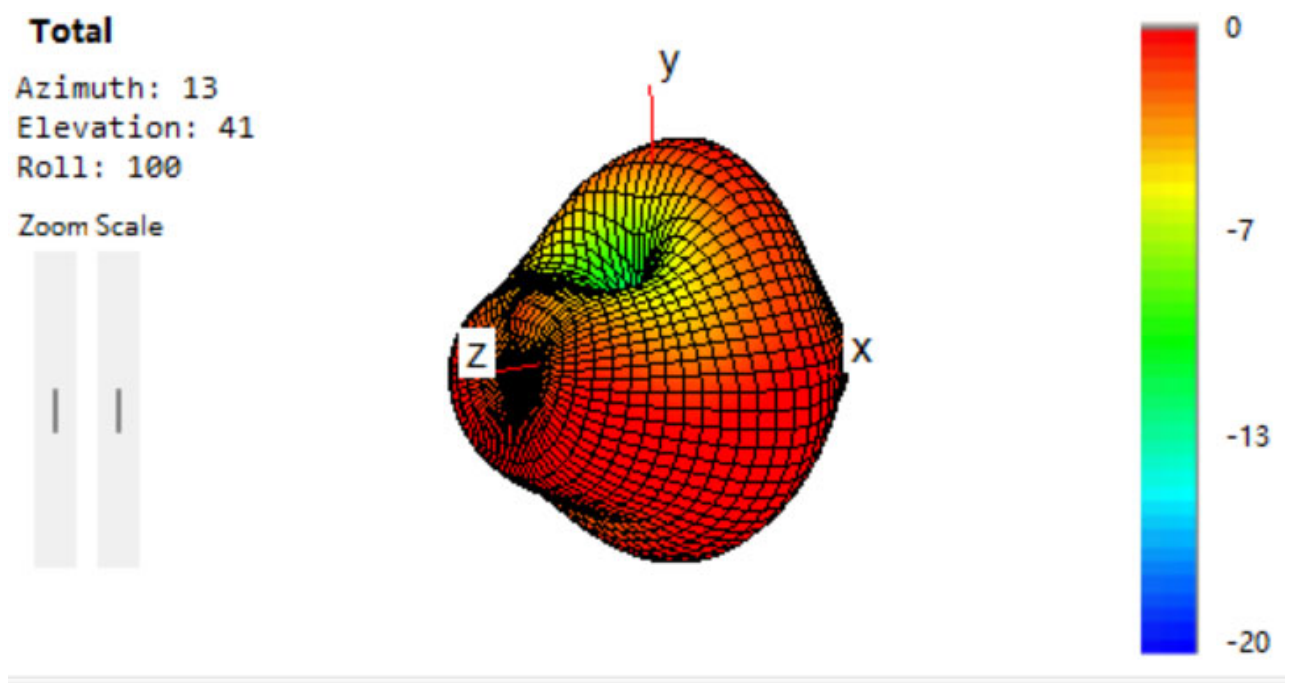
Total

Azimuth: 13
Elevation: 41
Roll: 100

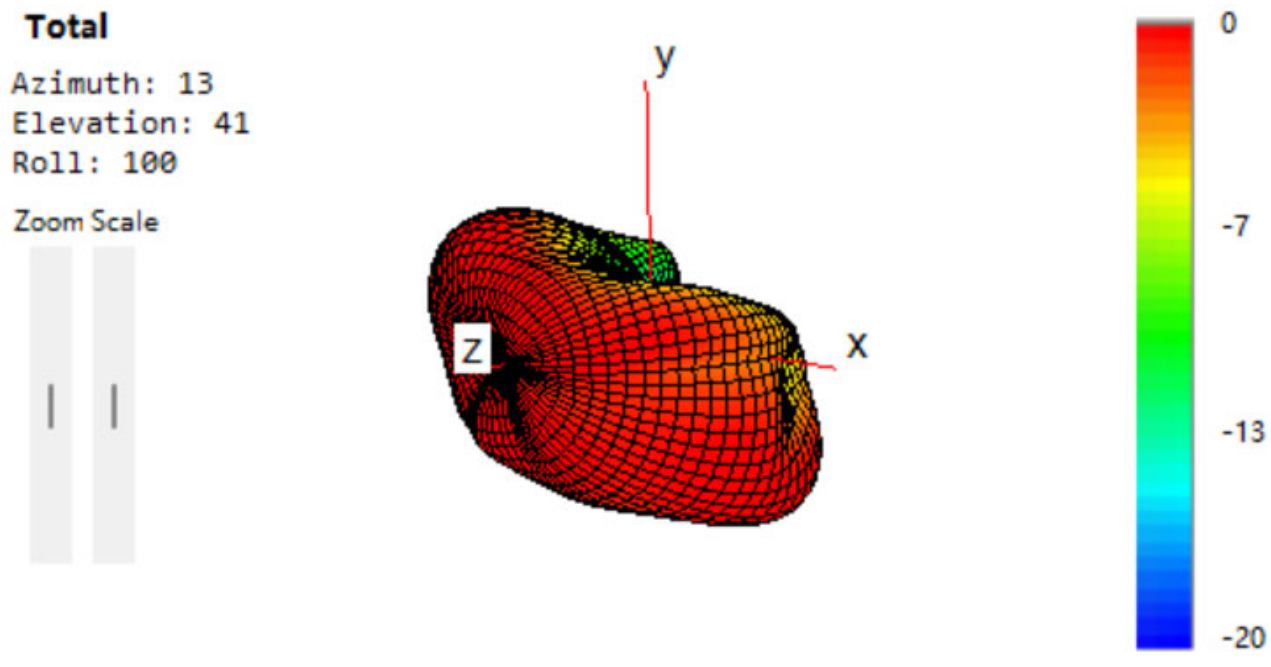
Zoom Scale



LTE Main Antenna 3D Radiation Pattern 725.5 MHz (NR)



LTE Main Antenna 3D Radiation Pattern 2593 MHz (NR)

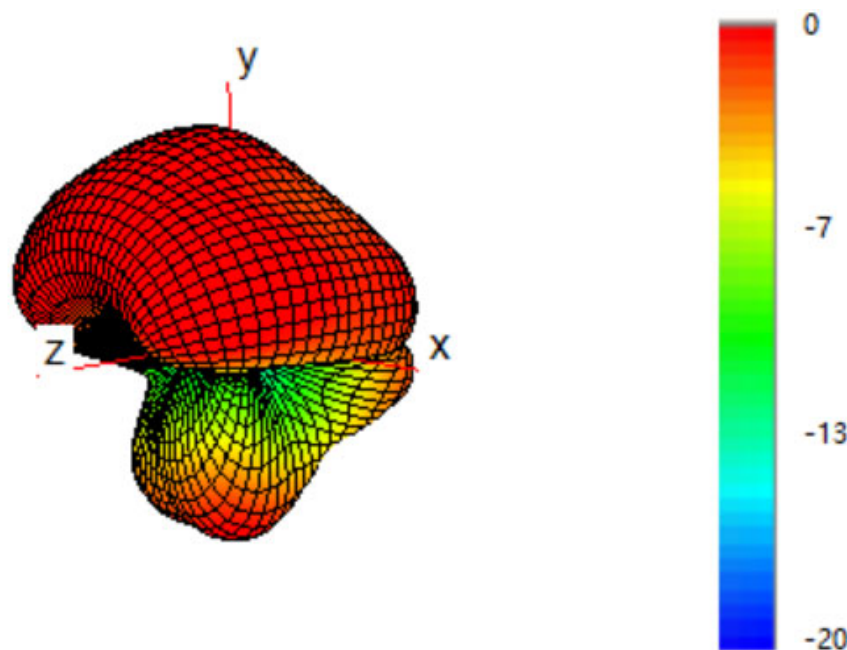


LTE Main Antenna 3D Radiation Pattern 1745 MHz (NR)

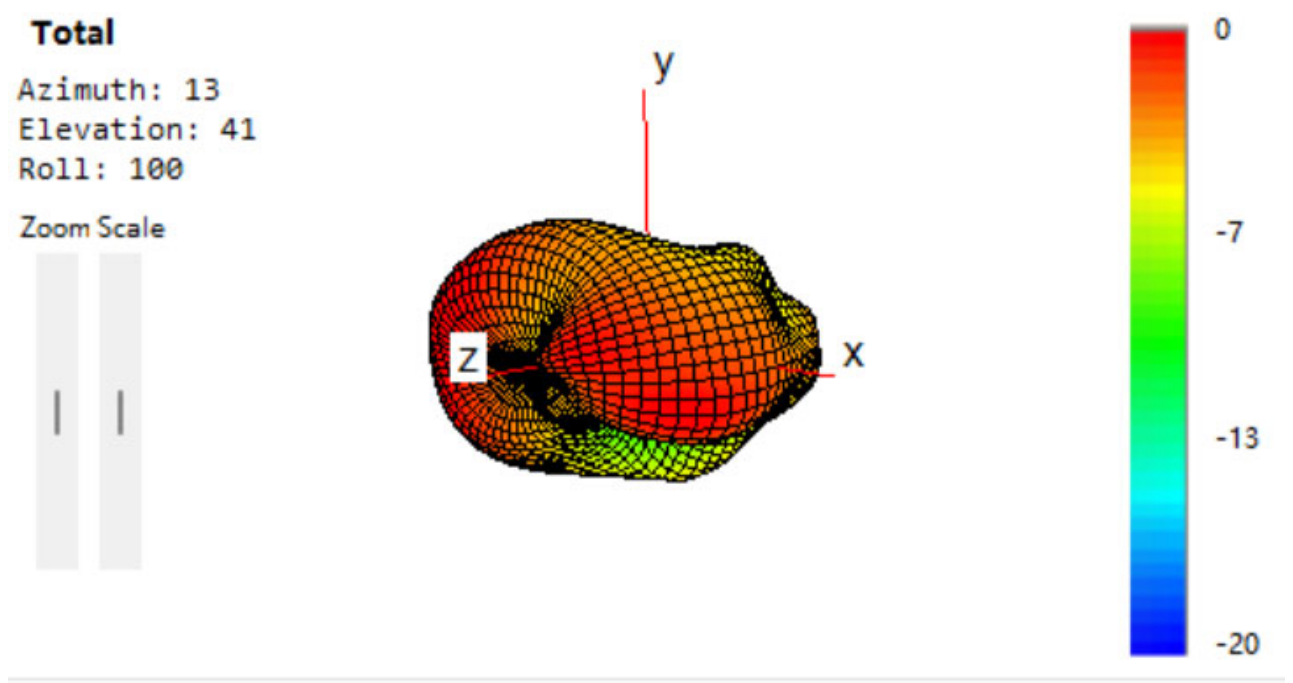
Total

Azimuth: 13
Elevation: 41
Roll: 100

Zoom Scale



LTE Main Antenna 3D Radiation Pattern 3550 MHz (NR)



LTE Main Antenna 3D Radiation Pattern 4700 MHz (NR)

