

MC 9090 (802.11BG) ANT 1 (MAIN)

Copolar	UNITS	AZ (H-plane)			EL (E-plane), phi = 0deg			EL (E-plane), phi = 90deg		
		2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz
Avg Gain	dBi	-11.95	-12.14	-11.21	-12.39	-12.76	-13.39	-6.48	-7.19	-8.38
Peak Gain	dBi	-7.68	-7.20	-7.50	-8.93	-6.71	-9.45	-1.23	-1.81	-2.58
Total Angle >= -6dBi	deg	0.00	0.00	0.00	0.00	0.00	0.00	100.00	76.00	80.00
Total Angle >= -2dBi	deg	0.00	0.00	0.00	0.00	0.00	0.00	24.00	10.00	0.00
X-polar	UNITS	2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz
Avg Gain	dBi	-6.12	-8.26	-8.34	-3.58	-5.31	-5.28	-8.89	-11.66	-12.46
Peak Gain	dBi	-0.76	-2.08	-2.27	-0.34	-1.88	-1.75	-3.71	-6.95	-6.63
Total Angle >= -6dBi	deg	138.00	64.00	70.00	206.00	194.00	184.00	72.00	0.00	0.00
Total Angle >= -2dBi	deg	46.00	0.00	0.00	160.00	26.00	32.00	0.00	0.00	0.00
Total Field	UNITS	2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz	2400MHz	2440MHz	2485MHz
Avg Gain	dBi	-5.77	-7.57	-7.32	-3.41	-5.10	-5.11	-5.35	-6.58	-7.68
Peak Gain	dBi	-0.75	-2.07	-2.24	-0.34	-1.88	-1.69	-1.18	-1.80	-2.57
Total Angle >= -6dBi	deg	146.00	84.00	70.00	208.00	200.00	190.00	164.00	92.00	96.00
Total Angle >= -2dBi	deg	46.00	0.00	0.00	160.00	26.00	32.00	24.00	12.00	0.00

Data Taken By:

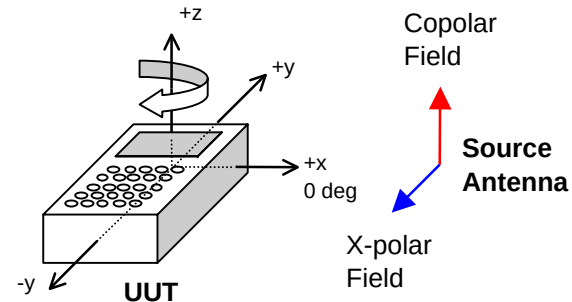
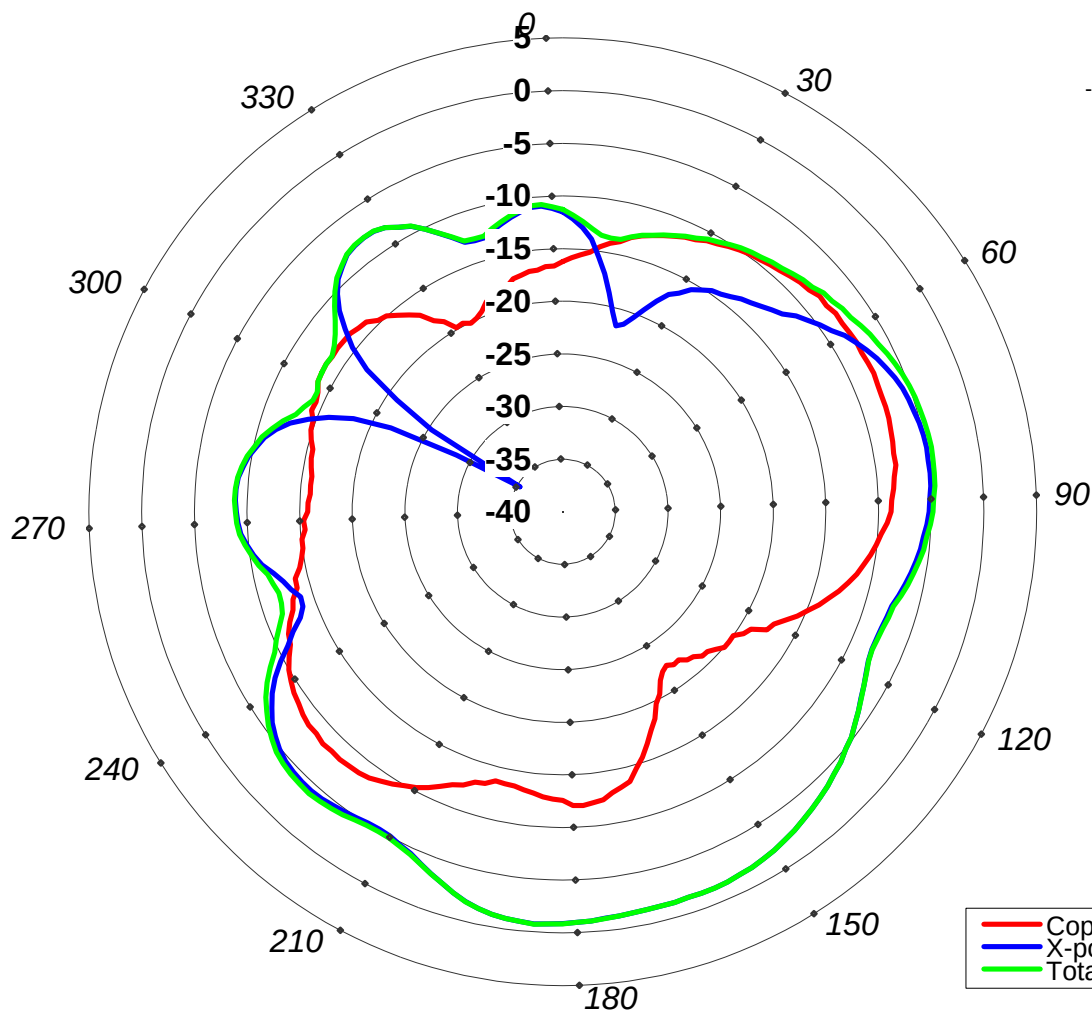
R. Zancola

Date:

1/9/2005

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 2400

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -11.9
 Peak (dBi) = -7.7
 Total deg $\geq$ -6dBi = 0
 Total deg $\geq$ -2dBi = 0

X-polar

Avg (dBi) = -6.1
 Peak (dBi) = -0.8
 Total deg $\geq$ -6dBi = 138
 Total deg $\geq$ -2dBi = 46

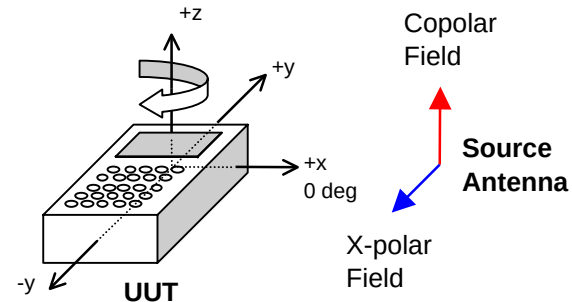
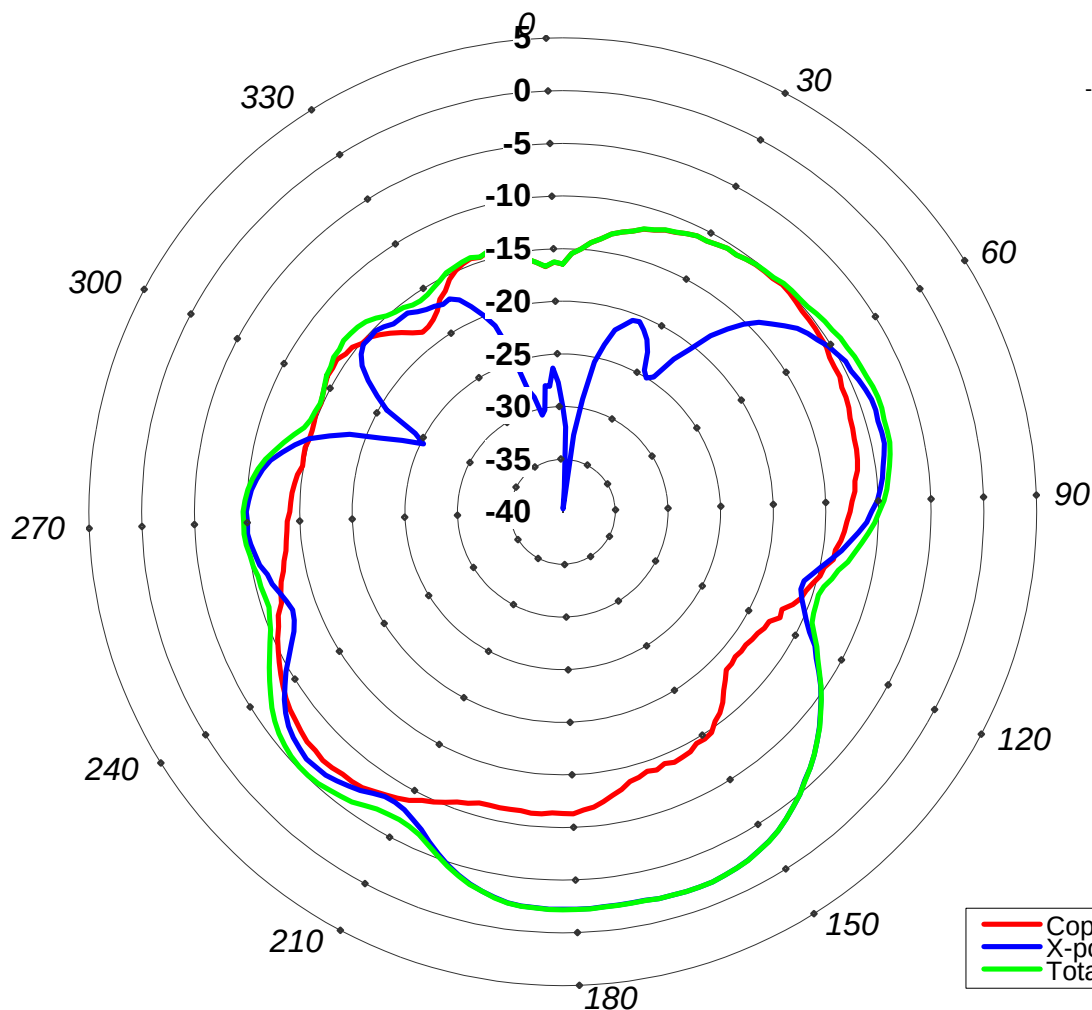
Total Field

Avg (dBi) = -5.8
 Peak (dBi) = -0.7
 Total deg $\geq$ -6dBi = 146
 Total deg $\geq$ -2dBi = 46

— Copolar
 — X-polar
 — Total Field

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 2440

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -12.1
 Peak (dBi) = -7.2
 Total deg $\geq$ -6dBi = 0
 Total deg $\geq$ -2dBi = 0

X-polar

Avg (dBi) = -8.3
 Peak (dBi) = -2.1
 Total deg $\geq$ -6dBi = 64
 Total deg $\geq$ -2dBi = 0

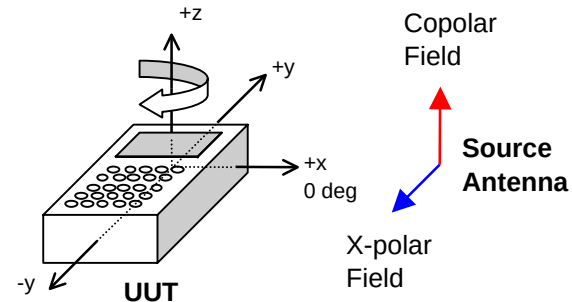
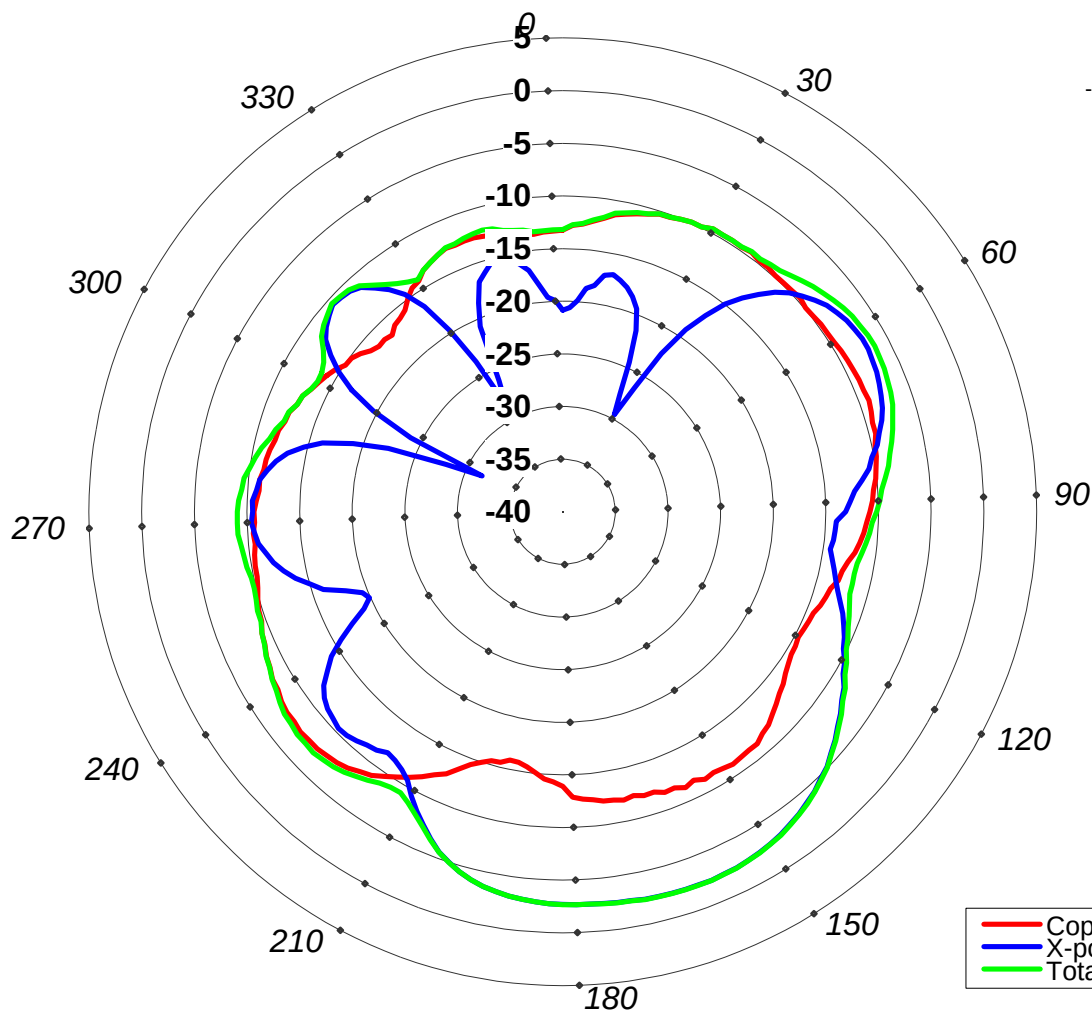
Total Field

Avg (dBi) = -7.6
 Peak (dBi) = -2.1
 Total deg $\geq$ -6dBi = 84
 Total deg $\geq$ -2dBi = 0

— Copolar
 — X-polar
 — Total Field

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 2485

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -11.2
 Peak (dBi) = -7.5
 Total deg $\geq$ -6dBi = 0
 Total deg $\geq$ -2dBi = 0

X-polar

Avg (dBi) = -8.3
 Peak (dBi) = -2.3
 Total deg $\geq$ -6dBi = 70
 Total deg $\geq$ -2dBi = 0

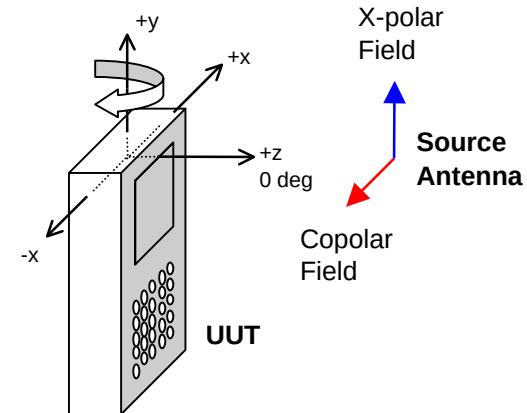
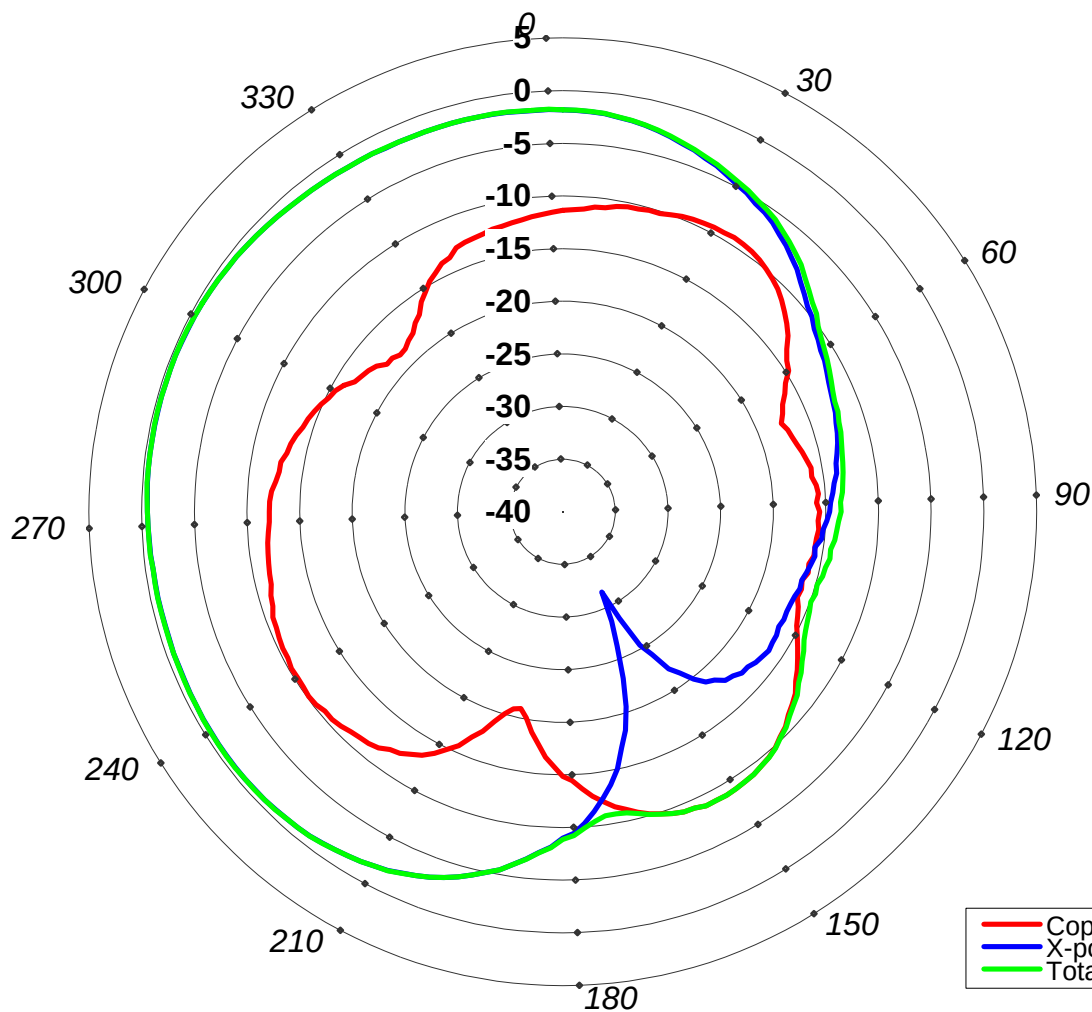
Total Field

Avg (dBi) = -7.3
 Peak (dBi) = -2.2
 Total deg $\geq$ -6dBi = 70
 Total deg $\geq$ -2dBi = 0

Elevation Pattern, phi = 0 deg

Elevation Angle (deg): NA

Frequency 2400

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -12.4

Peak (dBi) = -8.9

Total deg $\geq$ -6dBi = 0Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -3.6

Peak (dBi) = -0.3

Total deg $\geq$ -6dBi = 206Total deg $\geq$ -2dBi = 160**Total Field**

Avg (dBi) = -3.4

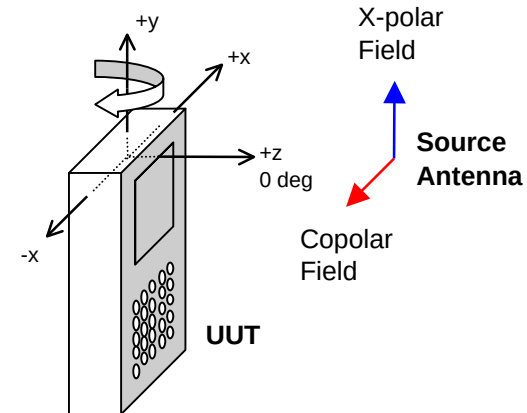
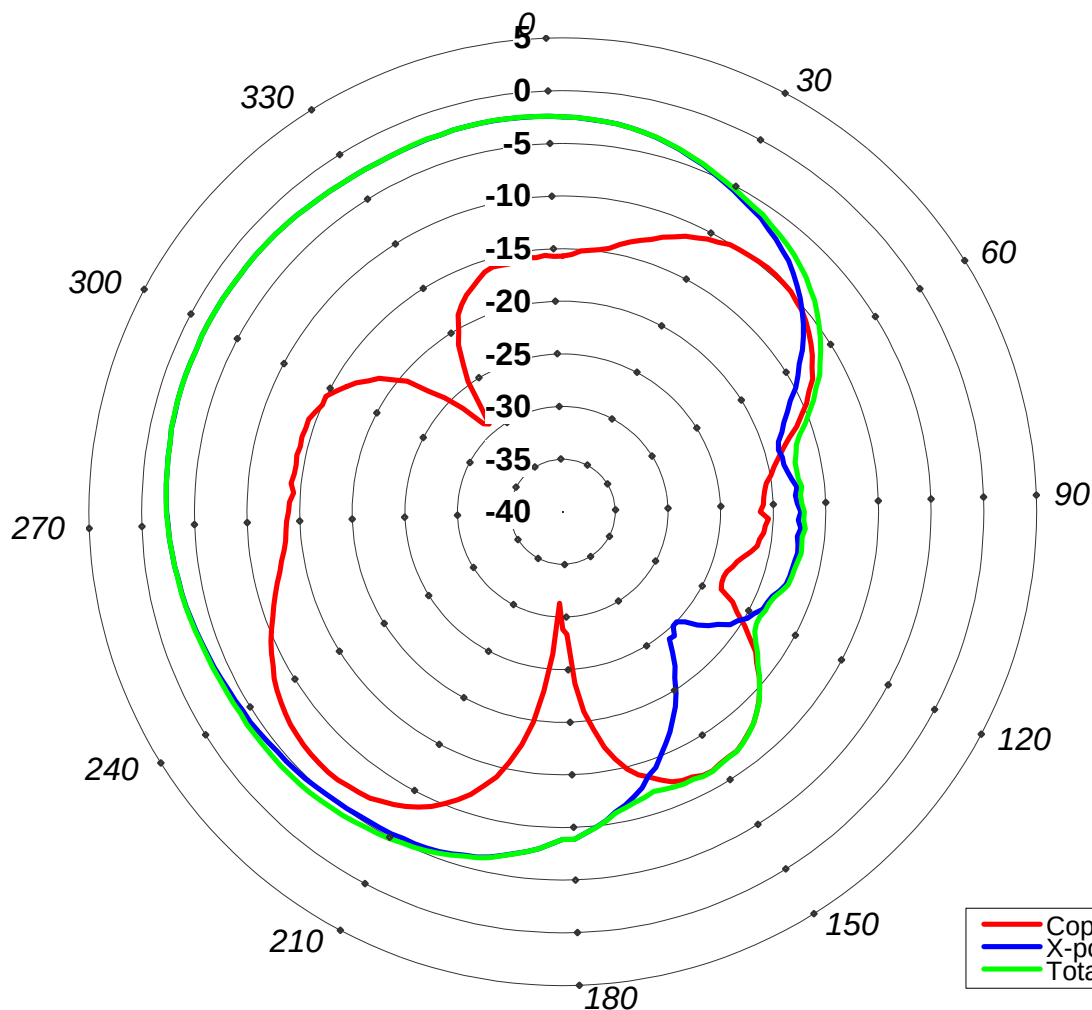
Peak (dBi) = -0.3

Total deg $\geq$ -6dBi = 208Total deg $\geq$ -2dBi = 160

Elevation Pattern, phi = 0 deg

Elevation Angle (deg): NA

Frequency 2440

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -12.8

Peak (dBi) = -6.7

Total deg $\geq$ -6dBi = 0Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -5.3

Peak (dBi) = -1.9

Total deg $\geq$ -6dBi = 194Total deg $\geq$ -2dBi = 26**Total Field**

Avg (dBi) = -5.1

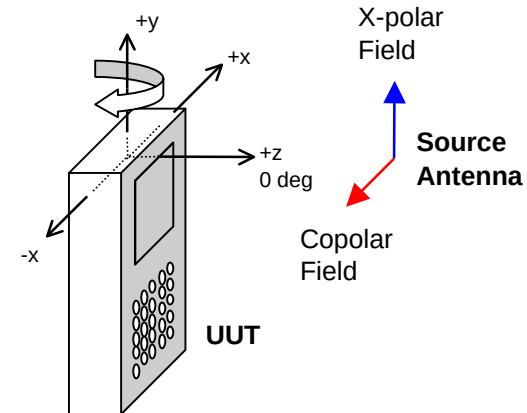
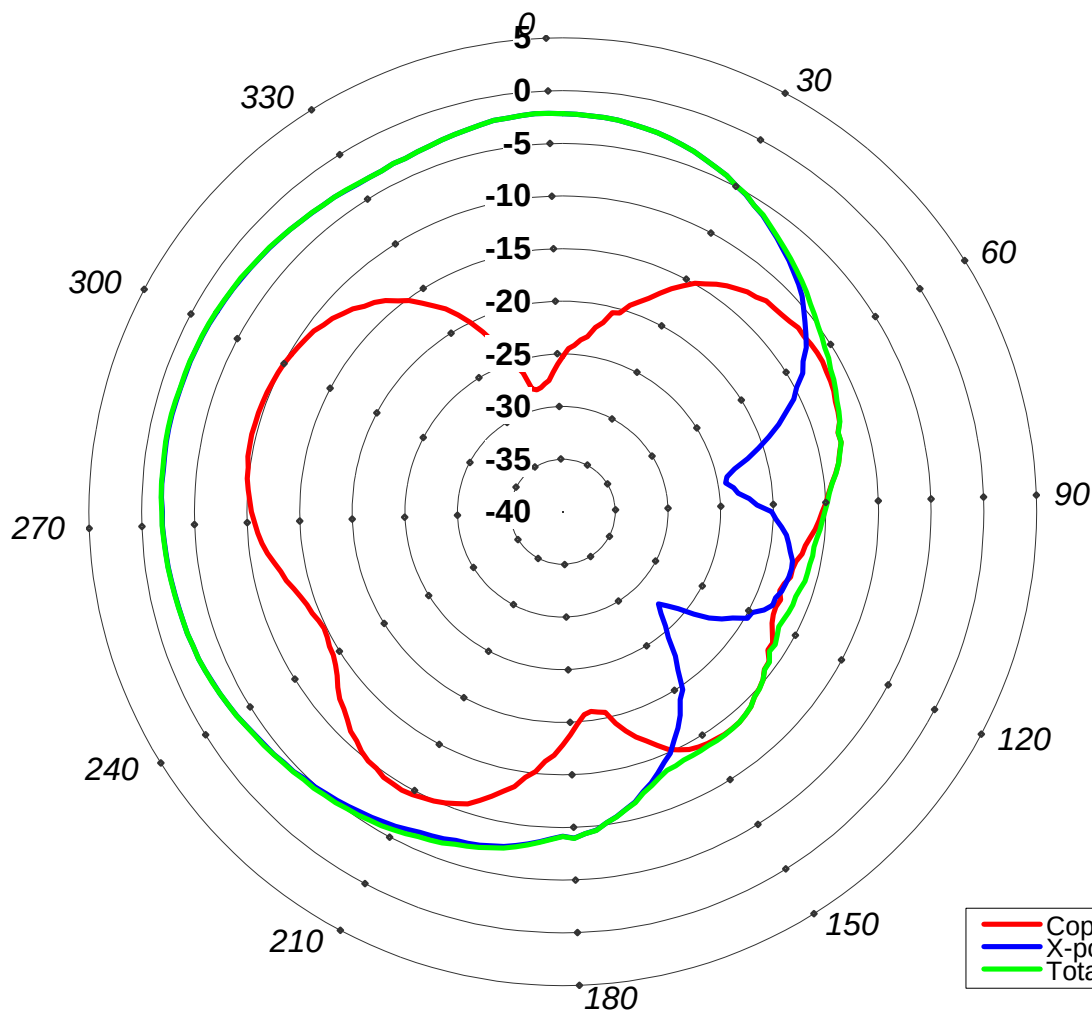
Peak (dBi) = -1.9

Total deg $\geq$ -6dBi = 200Total deg $\geq$ -2dBi = 26

Elevation Pattern, phi = 0 deg

Elevation Angle (deg): NA

Frequency 2485

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -13.4

Peak (dBi) = -9.5

Total deg $\geq$ -6dBi = 0Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -5.3

Peak (dBi) = -1.7

Total deg $\geq$ -6dBi = 184Total deg $\geq$ -2dBi = 32**Total Field**

Avg (dBi) = -5.1

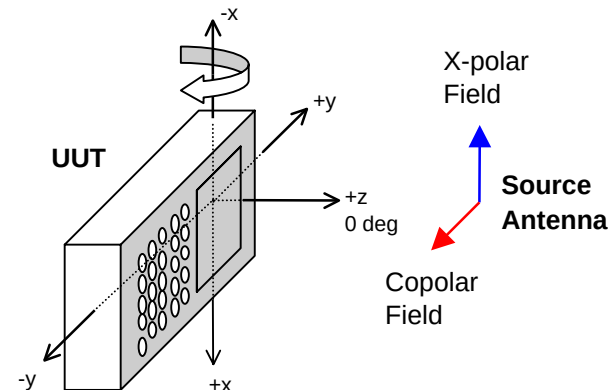
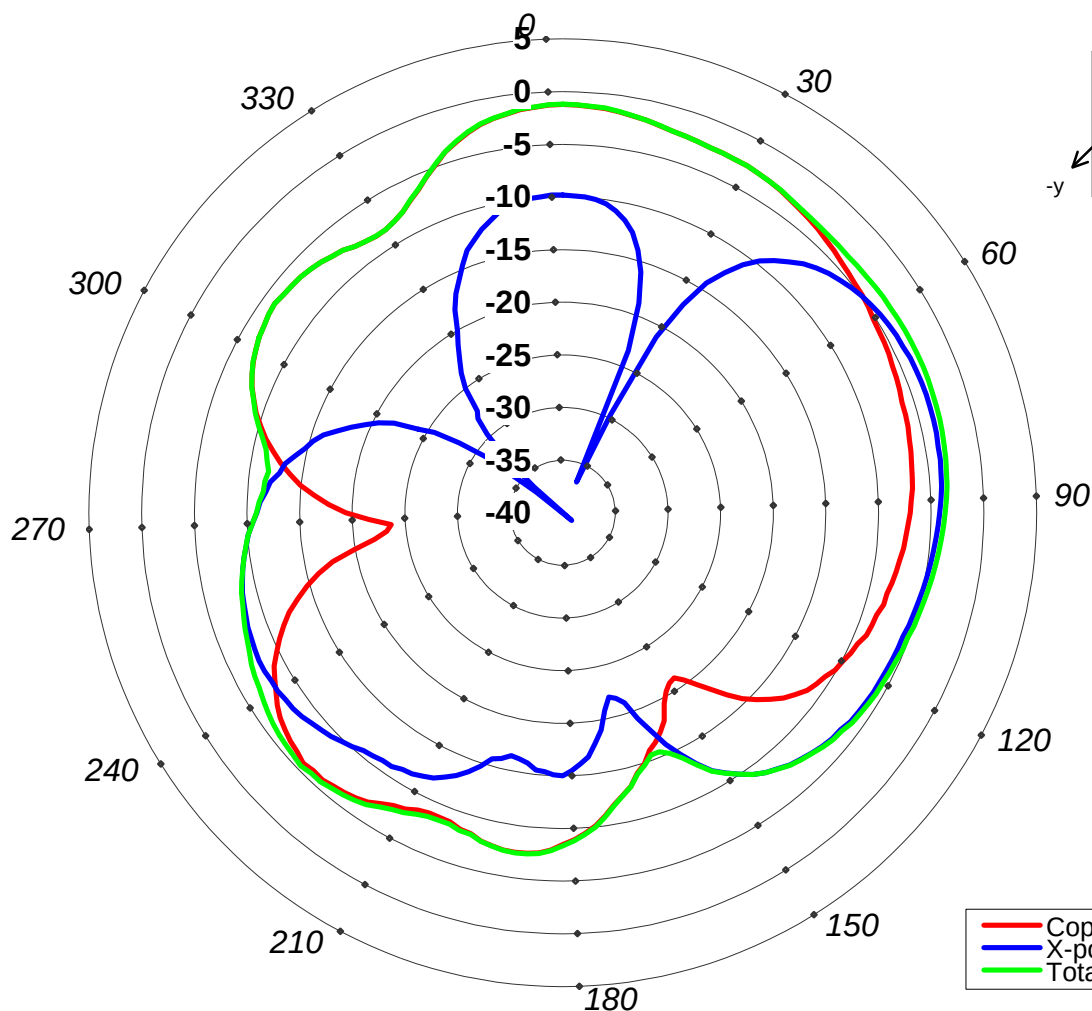
Peak (dBi) = -1.7

Total deg $\geq$ -6dBi = 190Total deg $\geq$ -2dBi = 32

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 2400

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -6.5

Peak (dBi) = -1.2

Total deg $\geq$ -6dBi = 100Total deg $\geq$ -2dBi = 24**X-polar**

Avg (dBi) = -8.9

Peak (dBi) = -3.7

Total deg $\geq$ -6dBi = 72Total deg $\geq$ -2dBi = 0**Total Field**

Avg (dBi) = -5.4

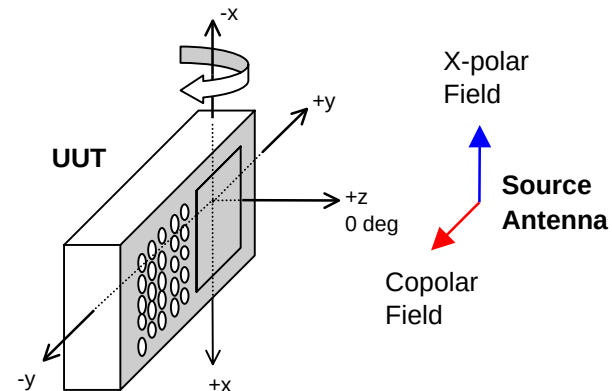
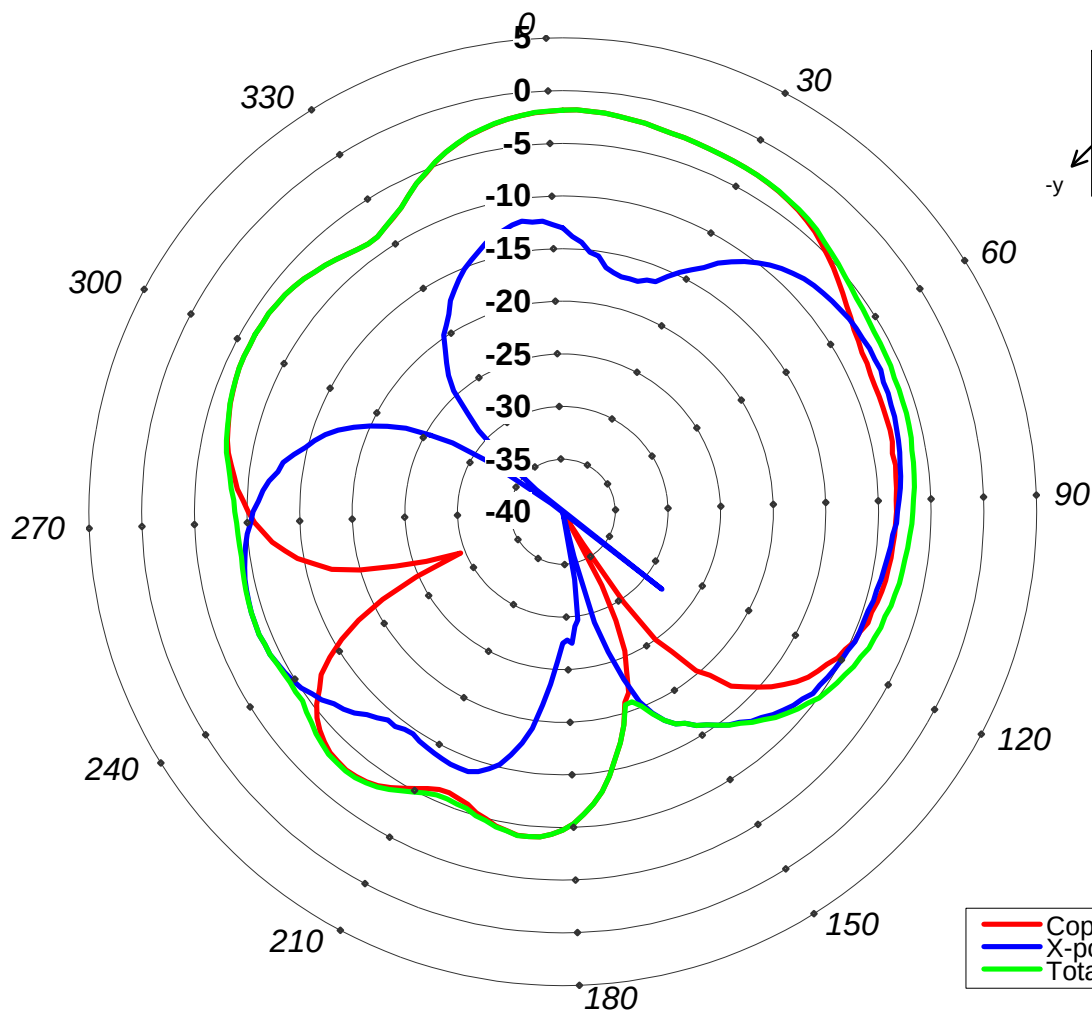
Peak (dBi) = -1.2

Total deg $\geq$ -6dBi = 164Total deg $\geq$ -2dBi = 24

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 2440

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -7.2

Peak (dBi) = -1.8

Total deg $\geq$ -6dBi = 76Total deg $\geq$ -2dBi = 10**X-polar**

Avg (dBi) = -11.7

Peak (dBi) = -7.0

Total deg $\geq$ -6dBi = 0Total deg $\geq$ -2dBi = 0**Total Field**

Avg (dBi) = -6.6

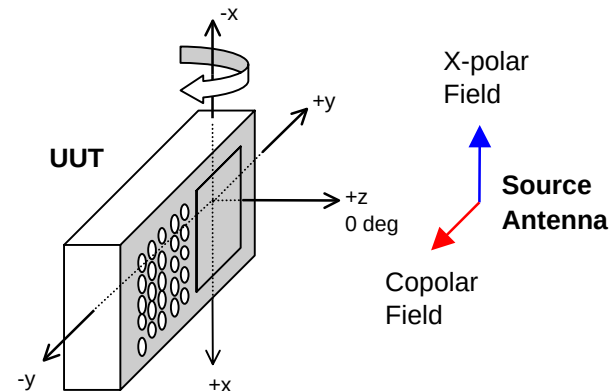
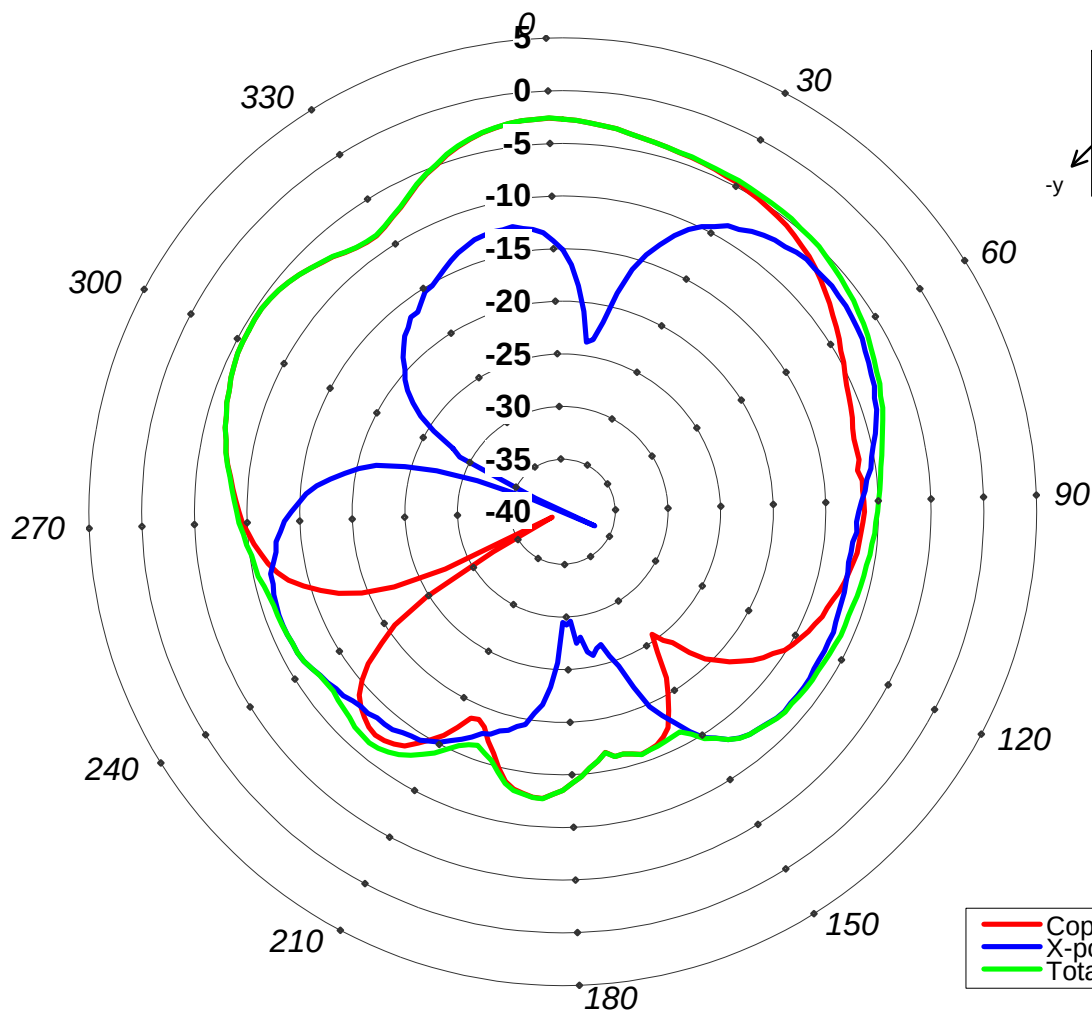
Peak (dBi) = -1.8

Total deg $\geq$ -6dBi = 92Total deg $\geq$ -2dBi = 12

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 2485

**Gain, EL (E-plane)
dBi****Copolar**

Avg (dBi) = -8.4

Peak (dBi) = -2.6

Total deg $\geq$ -6dBi = 80Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -12.5

Peak (dBi) = -6.6

Total deg $\geq$ -6dBi = 0Total deg $\geq$ -2dBi = 0**Total Field**

Avg (dBi) = -7.7

Peak (dBi) = -2.6

Total deg $\geq$ -6dBi = 96Total deg $\geq$ -2dBi = 0