

MC 9090 EV2B++ (802.11A) Ant 1 (MAIN)

Copolar	UNITS	AZ (H-plane)			EL (E-plane), phi = 0deg			EL (E-plane), phi = 90deg		
		5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz
Avg Gain	dBi	-8.35	-8.16	-9.32	-8.40	-11.63	-13.67	-10.52	-7.37	-6.93
Peak Gain	dBi	-3.69	-2.04	-1.74	-2.54	-5.19	-8.28	-3.30	-2.03	-0.87
Total Angle >= -6dBi	deg	66.00	66.00	54.00	66.00	14.00	0.00	36.00	114.00	120.00
Total Angle >= -2dBi	deg	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	22.00
X-polar	UNITS	5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz
Avg Gain	dBi	-8.52	-6.81	-5.84	-10.22	-7.06	-4.58	-14.48	-12.80	-10.71
Peak Gain	dBi	-3.13	-0.51	-0.05	-5.08	-1.94	1.00	-8.21	-6.96	-4.73
Total Angle >= -6dBi	deg	84.00	114.00	152.00	12.00	104.00	168.00	0.00	0.00	32.00
Total Angle >= -2dBi	deg	0.00	28.00	36.00	0.00	4.00	88.00	0.00	0.00	0.00
Total Field	UNITS	5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz	5150MHz	5350MHz	5825MHz
Avg Gain	dBi	-6.60	-5.44	-4.86	-7.44	-6.70	-4.43	-9.83	-6.94	-6.12
Peak Gain	dBi	-2.64	-0.33	-0.04	-2.23	-1.75	1.00	-3.21	-1.95	-0.84
Total Angle >= -6dBi	deg	144.00	172.00	194.00	88.00	108.00	172.00	36.00	120.00	162.00
Total Angle >= -2dBi	deg	0.00	40.00	44.00	0.00	6.00	88.00	0.00	2.00	24.00

Data Taken By:

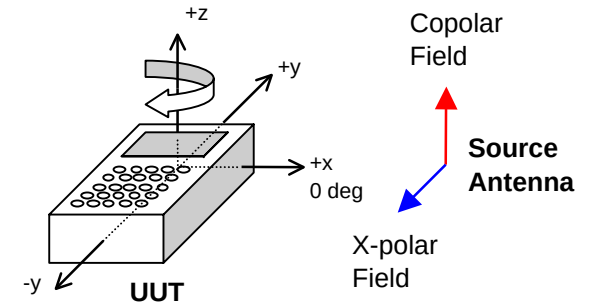
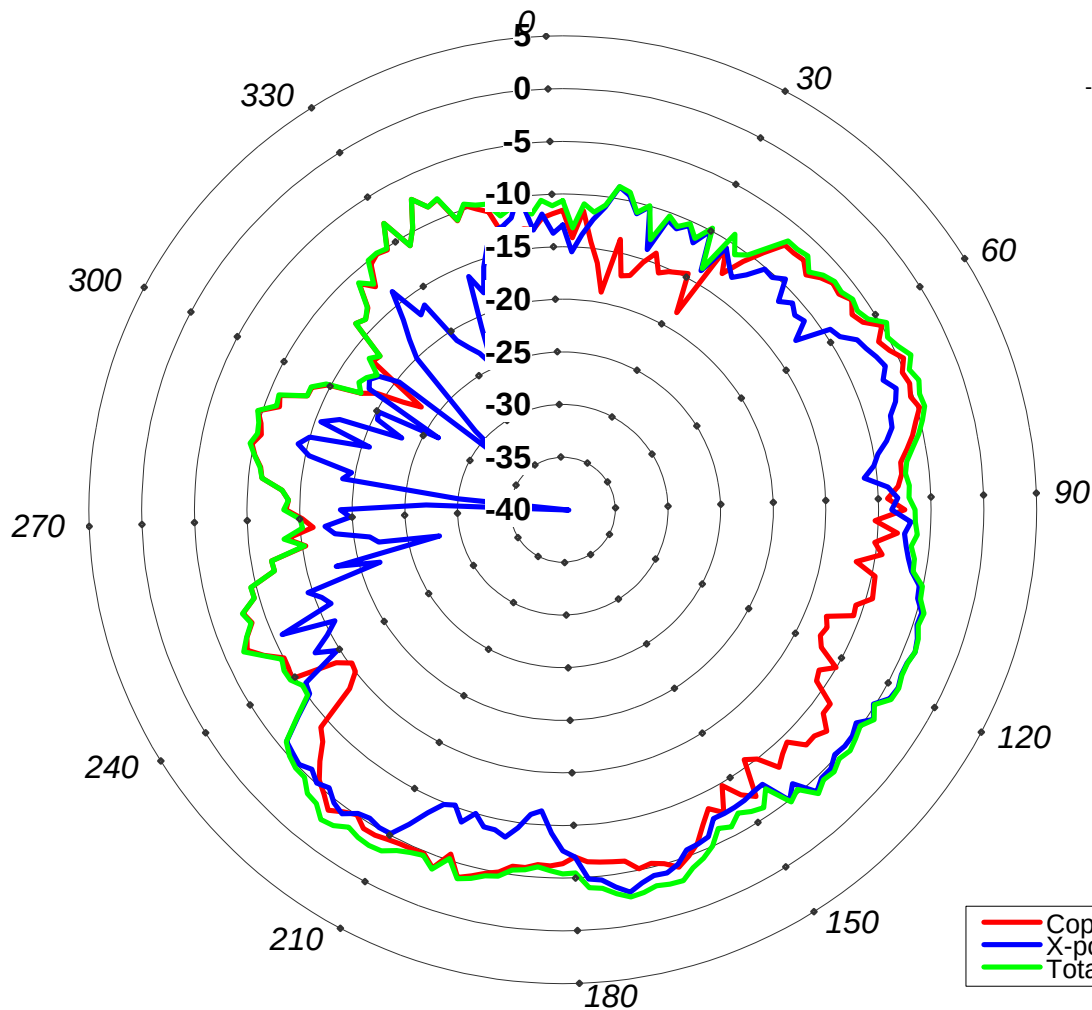
R. Zancola

Date:

1/9/2005

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 5150

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -8.3
 Peak (dBi) = -3.7
 Total deg $\geq$ -6dBi = 66
 Total deg $\geq$ -2dBi = 0

X-polar

Avg (dBi) = -8.5
 Peak (dBi) = -3.1
 Total deg $\geq$ -6dBi = 84
 Total deg $\geq$ -2dBi = 0

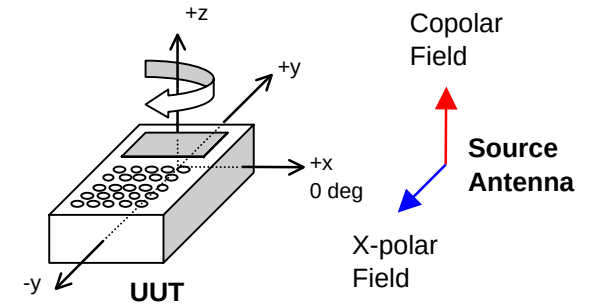
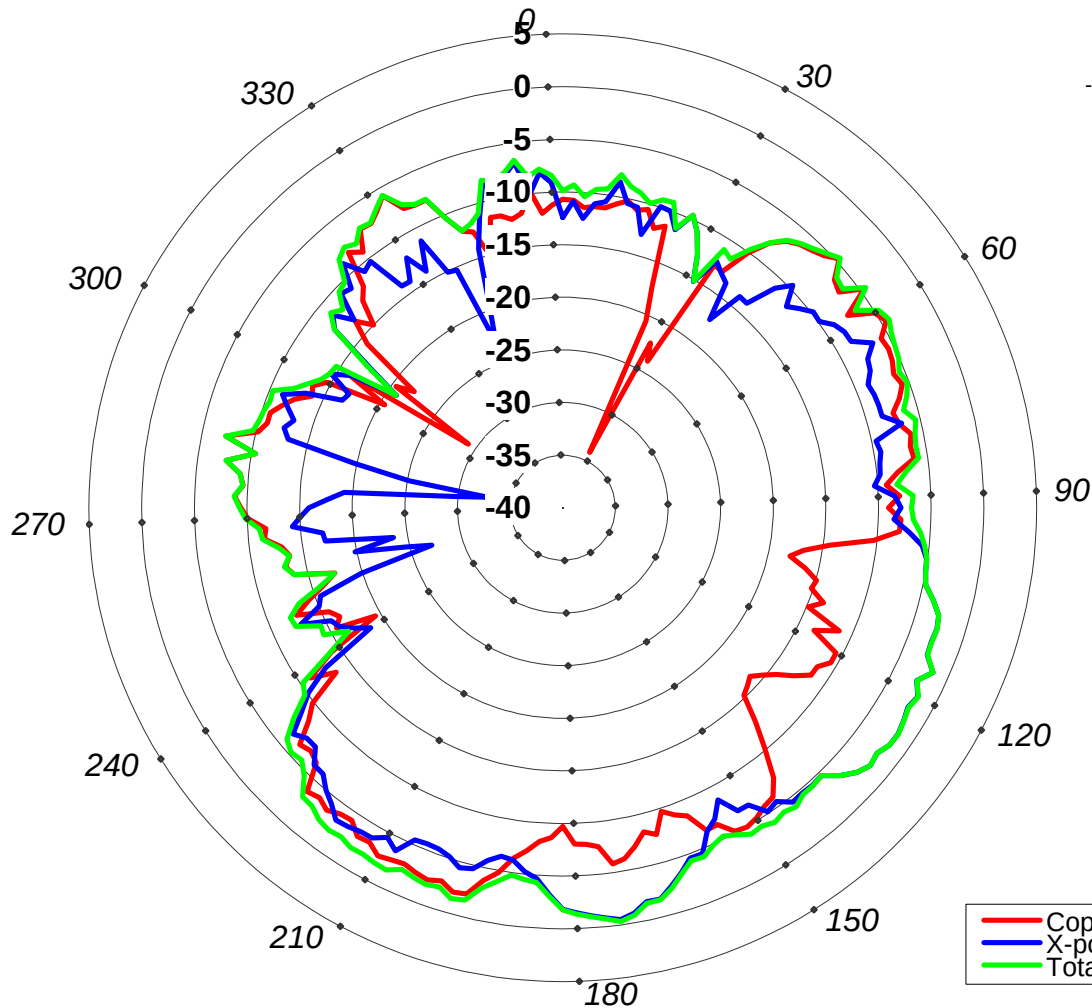
Total Field

Avg (dBi) = -6.6
 Peak (dBi) = -2.6
 Total deg $\geq$ -6dBi = 144
 Total deg $\geq$ -2dBi = 0

— Copolar
 — X-polar
 — Total Field

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 5350

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -8.2
 Peak (dBi) = -2.0
 Total deg $\geq$ -6dBi = 66
 Total deg $\geq$ -2dBi = 0

X-polar

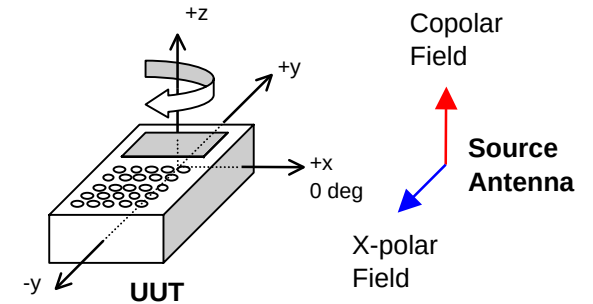
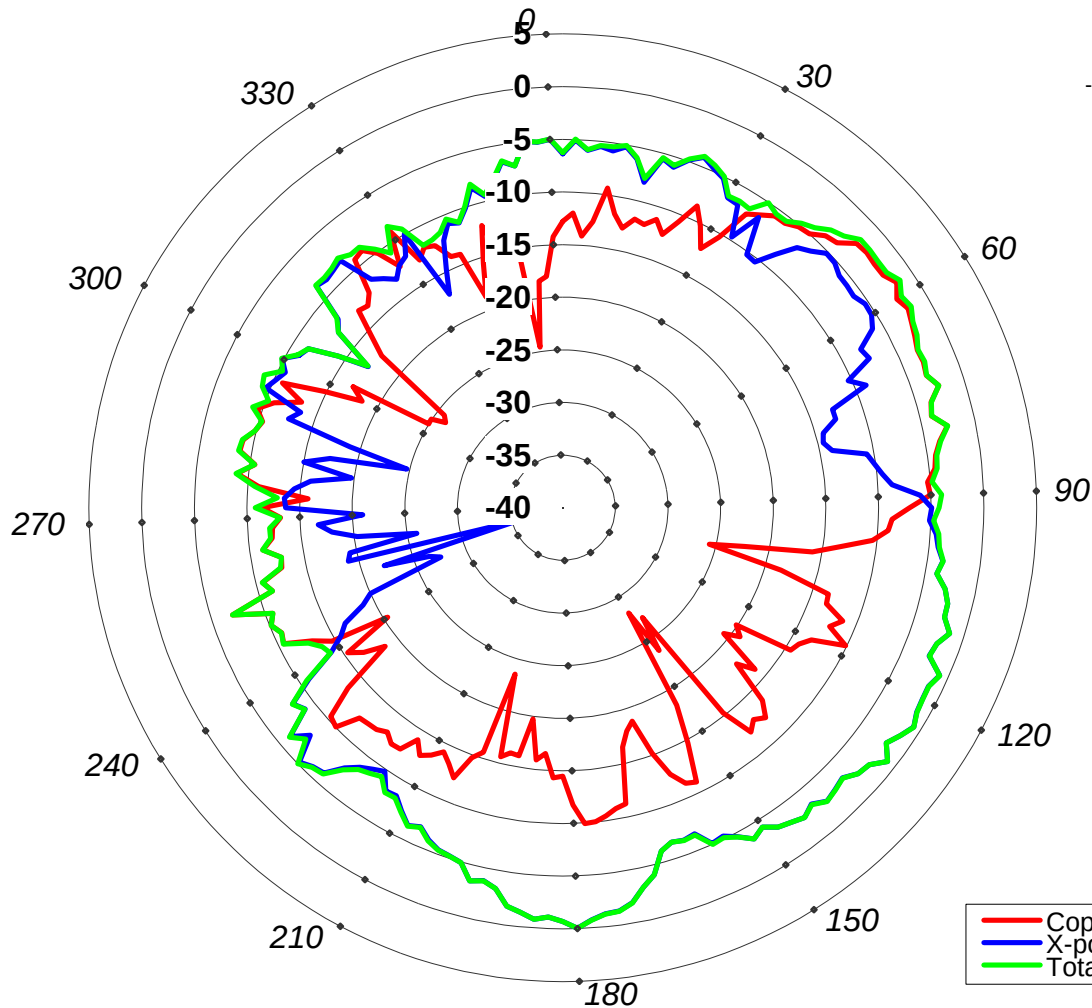
Avg (dBi) = -6.8
 Peak (dBi) = -0.5
 Total deg $\geq$ -6dBi = 114
 Total deg $\geq$ -2dBi = 28

Total Field

Avg (dBi) = -5.4
 Peak (dBi) = -0.3
 Total deg $\geq$ -6dBi = 172
 Total deg $\geq$ -2dBi = 40

User Hold Position (deg from horizon): 0
 Elevation Angle (deg): 0
 Frequency 5825

Gain, AZ (H-plane) dBi



Copolar

Avg (dBi) = -9.3
 Peak (dBi) = -1.7
 Total deg $\geq$ -6dBi = 54
 Total deg $\geq$ -2dBi = 2

X-polar

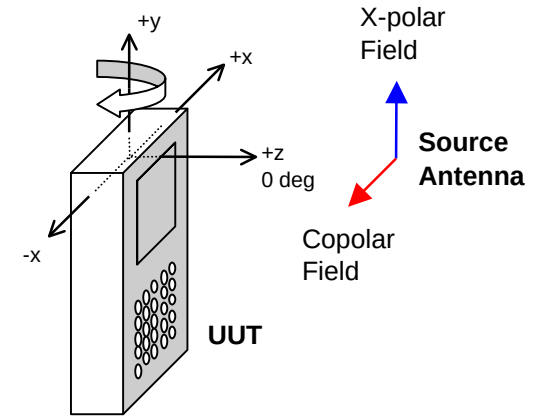
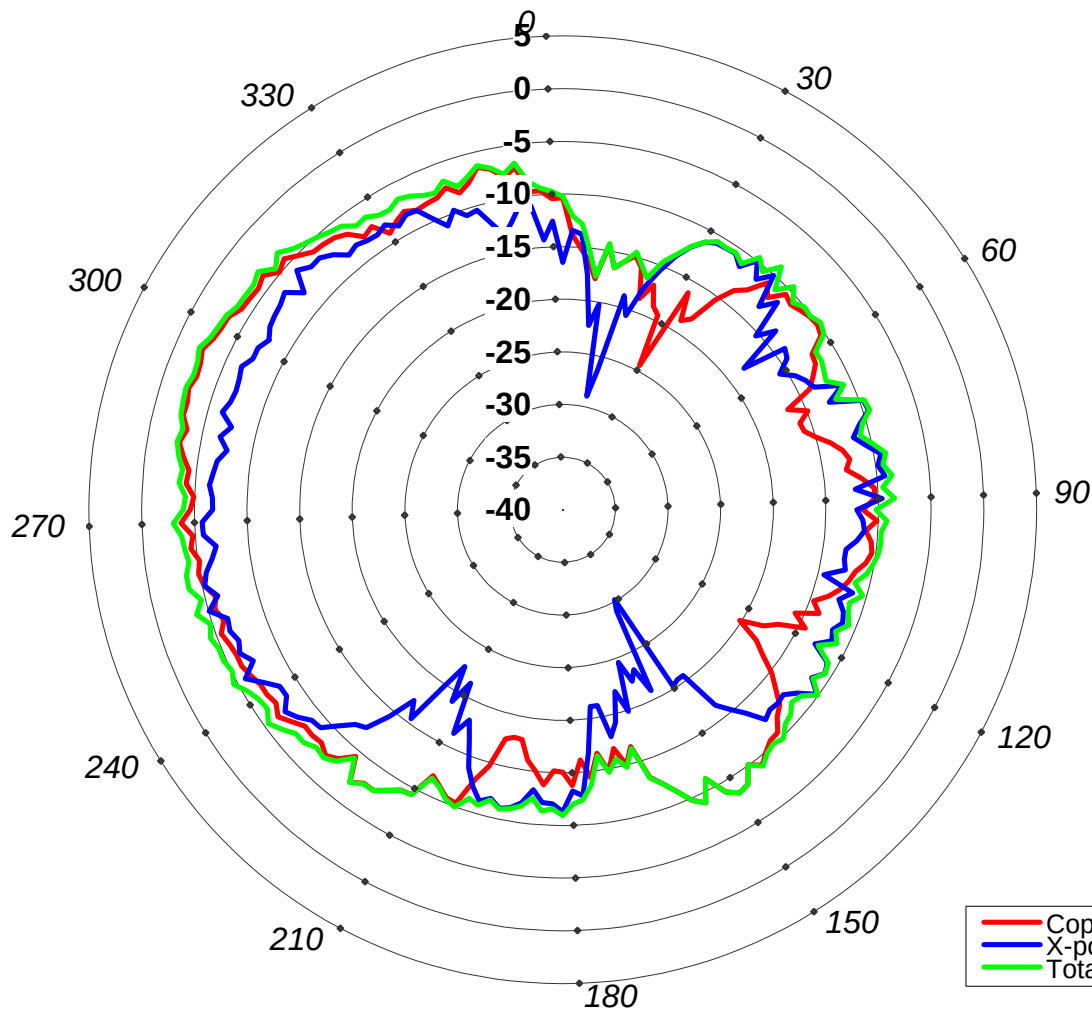
Avg (dBi) = -5.8
 Peak (dBi) = 0.0
 Total deg $\geq$ -6dBi = 152
 Total deg $\geq$ -2dBi = 36

Total Field

Avg (dBi) = -4.9
 Peak (dBi) = 0.0
 Total deg $\geq$ -6dBi = 194
 Total deg $\geq$ -2dBi = 44

Elevation Pattern, $\phi = 0$ deg
 Elevation Angle (deg): NA
 Frequency 5150

Gain, EL (E-plane) dBi



Copolar

Avg (dBi) = -8.4
 Peak (dBi) = -2.5
 Total deg ≥ -6 dBi = 66
 Total deg ≥ -2 dBi = 0

X-polar

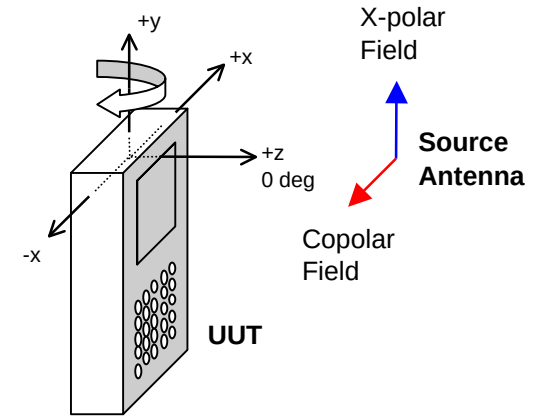
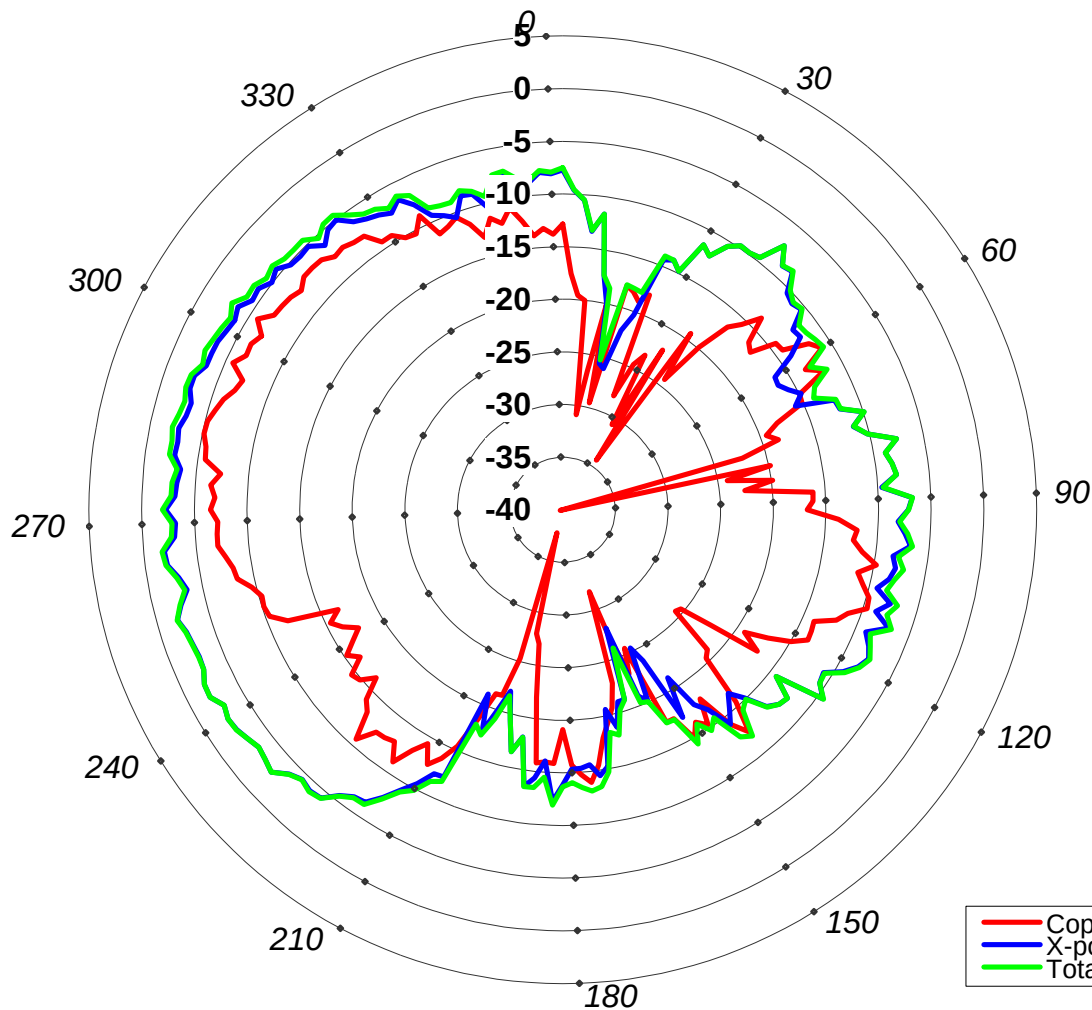
Avg (dBi) = -10.2
 Peak (dBi) = -5.1
 Total deg ≥ -6 dBi = 12
 Total deg ≥ -2 dBi = 0

Total Field

Avg (dBi) = -7.4
 Peak (dBi) = -2.2
 Total deg ≥ -6 dBi = 88
 Total deg ≥ -2 dBi = 0

Elevation Pattern, phi = 0 deg
 Elevation Angle (deg): NA
 Frequency 5350

Gain, EL (E-plane) dBi



Copolar

Avg (dBi) = -11.6
 Peak (dBi) = -5.2
 Total deg $\geq$ -6dBi = 14
 Total deg $\geq$ -2dBi = 0

X-polar

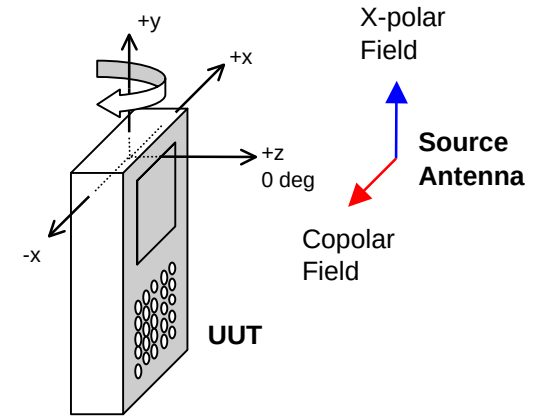
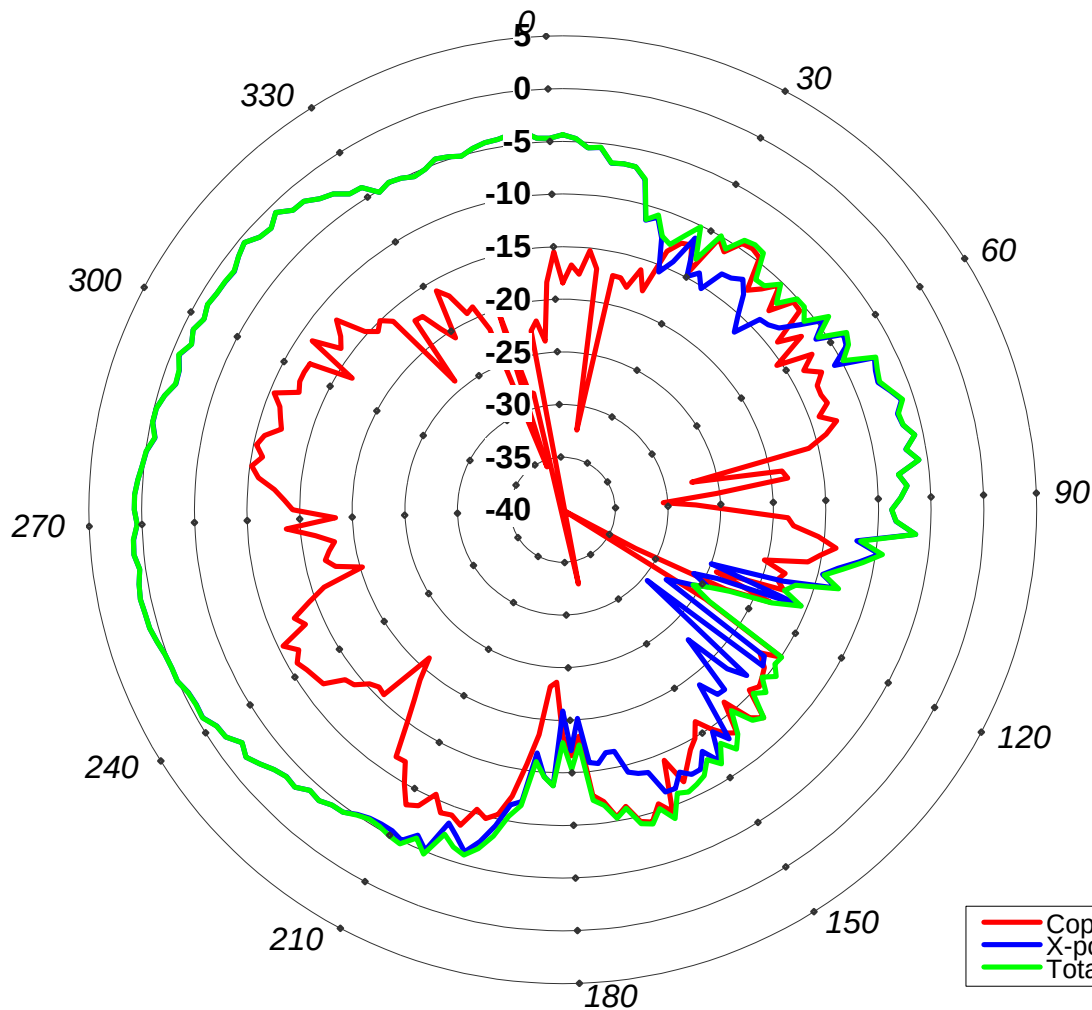
Avg (dBi) = -7.1
 Peak (dBi) = -1.9
 Total deg $\geq$ -6dBi = 104
 Total deg $\geq$ -2dBi = 4

Total Field

Avg (dBi) = -6.7
 Peak (dBi) = -1.7
 Total deg $\geq$ -6dBi = 108
 Total deg $\geq$ -2dBi = 6

Elevation Pattern, phi = 0 deg
 Elevation Angle (deg): NA
 Frequency 5825

Gain, EL (E-plane) dBi



Copolar

Avg (dBi) = -13.7
 Peak (dBi) = -8.3
 Total deg $\geq$ -6dBi = 0
 Total deg $\geq$ -2dBi = 0

X-polar

Avg (dBi) = -4.6
 Peak (dBi) = 1.0
 Total deg $\geq$ -6dBi = 168
 Total deg $\geq$ -2dBi = 88

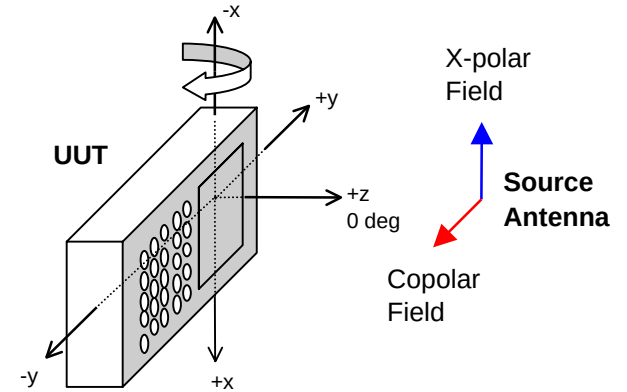
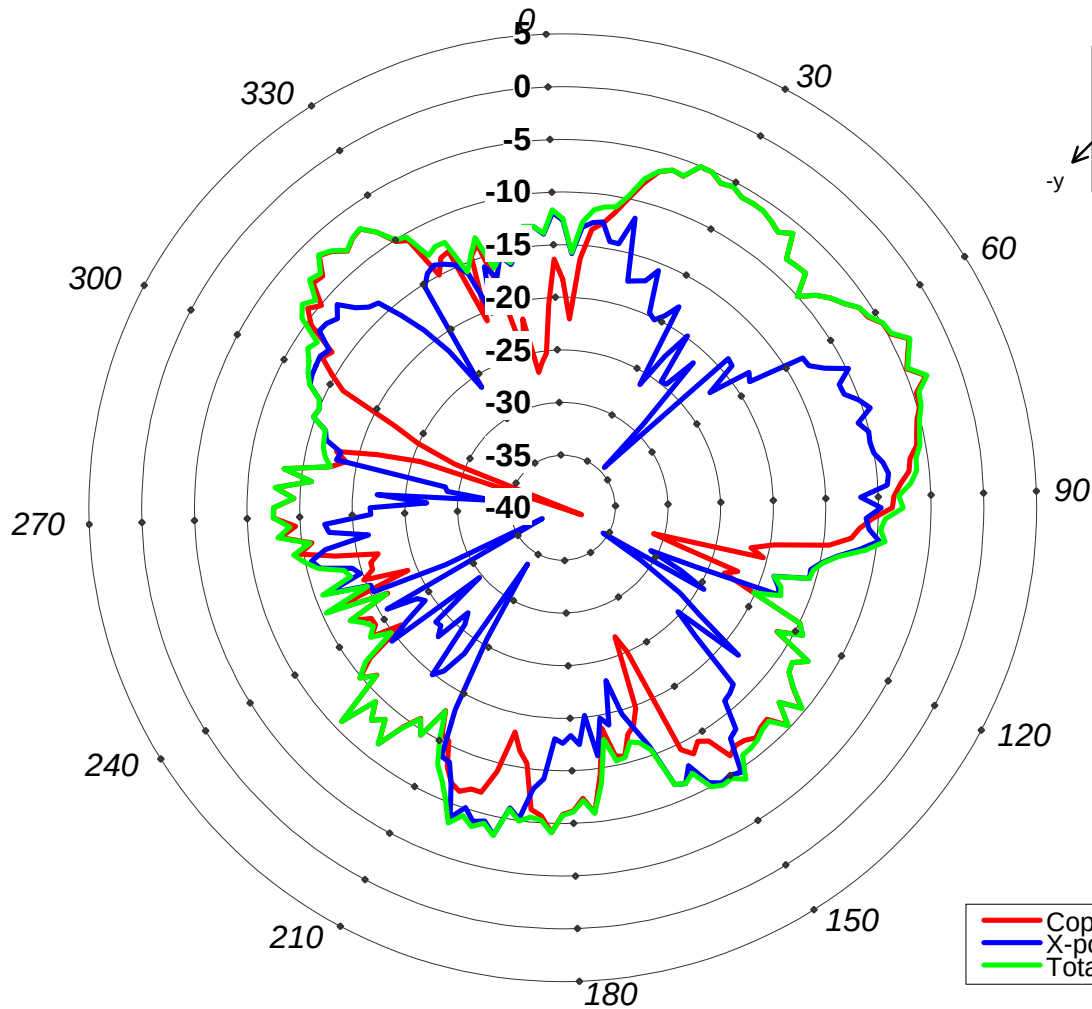
Total Field

Avg (dBi) = -4.4
 Peak (dBi) = 1.0
 Total deg $\geq$ -6dBi = 172
 Total deg $\geq$ -2dBi = 88

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 5150

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

Avg (dBi) = -10.5

Peak (dBi) = -3.3

Total deg $\geq$ -6dBi = 36Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -14.5

Peak (dBi) = -8.2

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

Avg (dBi) = -9.8

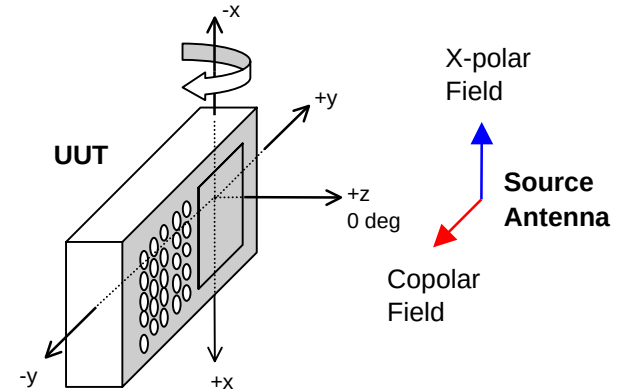
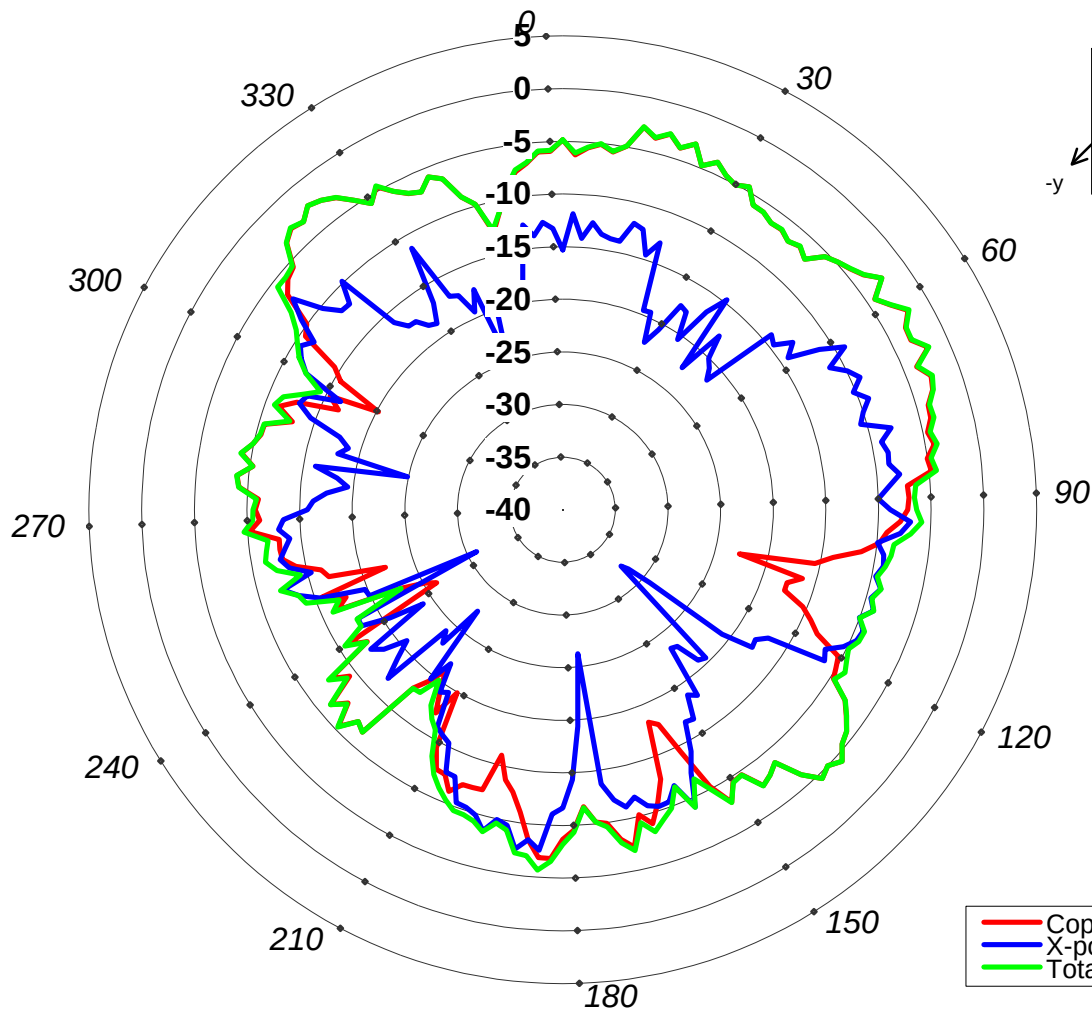
Peak (dBi) = -3.2

Total deg $\geq$ -6dBi = 36Total deg $\geq$ -2dBi = 0

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 5350

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

Avg (dBi) = -7.4

Peak (dBi) = -2.0

Total deg $\geq$ -6dBi = 114Total deg $\geq$ -2dBi = 0**X-polar**

Avg (dBi) = -12.8

Peak (dBi) = -7.0

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

Avg (dBi) = -6.9

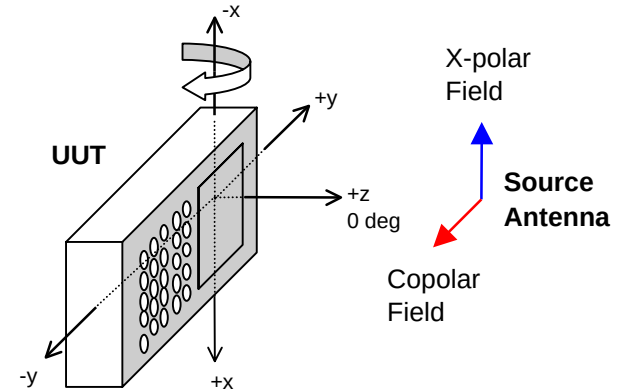
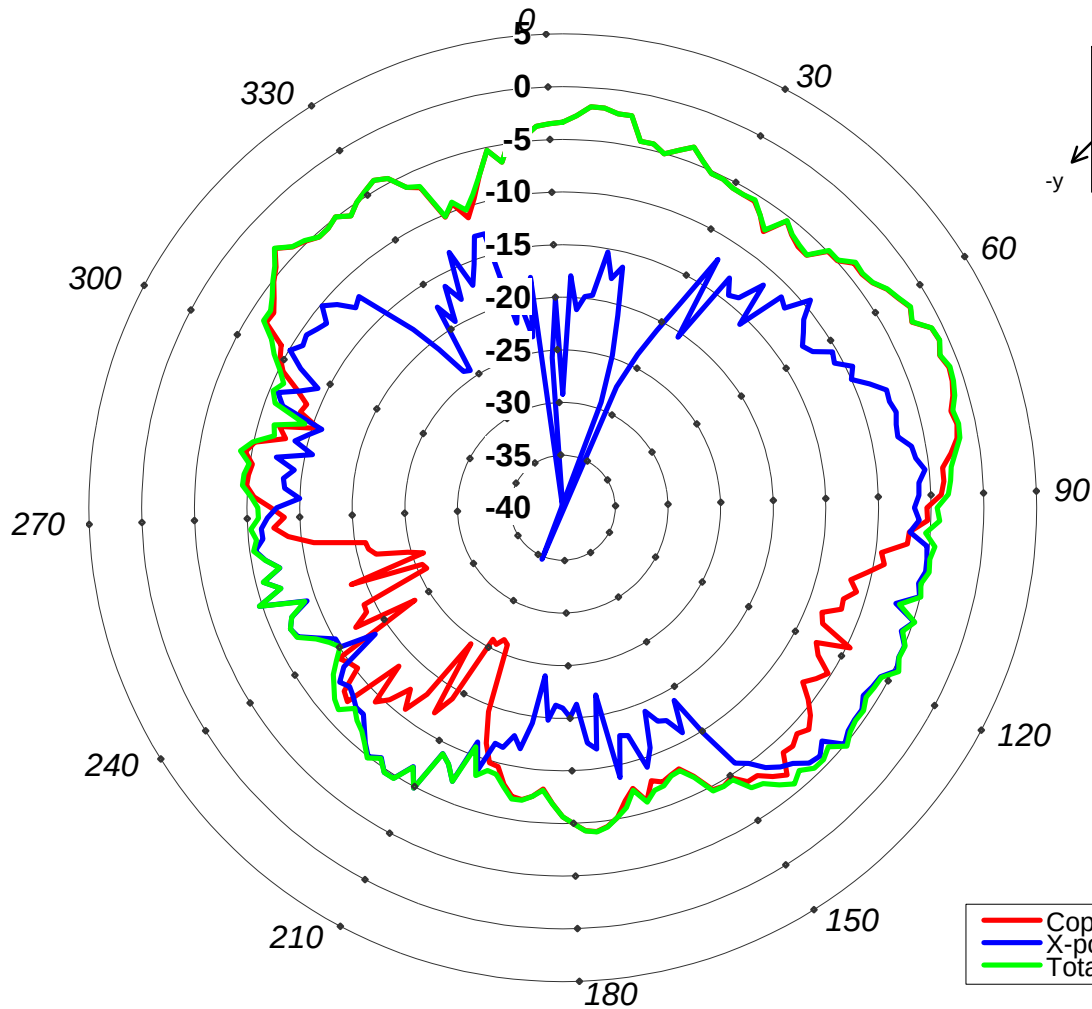
Peak (dBi) = -2.0

Total deg $\geq$ -6dBi = 120Total deg $\geq$ -2dBi = 2

Elevation Pattern, phi = 90 deg

Elevation Angle (deg): NA

Frequency 5825

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

Avg (dBi) = -6.9

Peak (dBi) = -0.9

Total deg $\geq$ -6dBi = 120Total deg $\geq$ -2dBi = 22**X-polar**

Avg (dBi) = -10.7

Peak (dBi) = -4.7

Total deg $\geq$ -6dBi = 32Total deg $\geq$ -2dBi = 0**Total Field**

Avg (dBi) = -6.1

Peak (dBi) = -0.8

Total deg $\geq$ -6dBi = 162Total deg $\geq$ -2dBi = 24