



Antenna Pattern_Radio 3 & Radio 4

Appendix F

Theta	9.94/7.13	9.74/10.40	6.80/7.14	5.94/5.18	7.87/5.39	5.59/8.22	6.73/12.38	12.58/11.70	7.78/5.37	7.16/4.73	9.21/12.17	11.35/7.74	5.61/7.27	9.75/5.94	5.42/5.33	6.80/4.47	7.37/8.90	7.81/11.64	8.16/6.82	5.91/9.21	8.59/6.23	8.08/11.98	12.35/12.13	12.65/9.01			
Phi	120°	125°	135°	142.5°	150°	157.5°	165°	172.5°	180°	187.5°	195°	202.5°	210°	217.5°	225°	232.5°	240°	247.5°	255°	262.5°	270°	277.5°	285°	300°	315°	330°	345°
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)			
Gain	3.14/3.33	3.37/3.04	3.31/3.73	3.85/3.50	3.59/3.52	3.31/3.19	2.86/3.03	2.79/2.56	2.40/2.63	2.62/2.73	3.07/3.21	2.72/2.70	2.26/2.57	3.01/2.60	2.35/2.74	2.51/2.02	1.91/2.09	2.43/2.31	1.96/1.80	1.92/1.96	2.12/2.36	2.17/1.93	2.18/2.61	2.75/3.13			
Theta	9.94/7.13	9.74/10.40	6.80/7.14	5.94/5.18	7.87/5.39	5.59/8.22	6.73/12.38	12.58/11.70	7.78/5.37	7.16/4.73	9.21/12.17	11.35/7.74	5.61/7.27	9.75/5.94	5.42/5.33	6.80/4.47	7.37/8.90	7.81/11.64	8.16/6.82	5.91/9.21	8.59/6.23	8.08/11.98	12.35/12.13	12.65/9.01			
Phi	120°	125°	135°	142.5°	150°	157.5°	165°	172.5°	180°	187.5°	195°	202.5°	210°	217.5°	225°	232.5°	240°	247.5°	255°	262.5°	270°	277.5°	285°	300°	315°	330°	345°
Gain	3.14/3.33	3.37/3.04	3.31/3.73	3.85/3.50	3.59/3.52	3.31/3.19	2.86/3.03	2.79/2.56	2.40/2.63	2.62/2.73	3.07/3.21	2.72/2.70	2.26/2.57	3.01/2.60	2.35/2.74	2.51/2.02	1.91/2.09	2.43/2.31	1.96/1.80	1.92/1.96	2.12/2.36	2.17/1.93	2.18/2.61	2.75/3.13			



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Table with 25 columns representing elevation angles from 0 to 180 degrees. Each column contains gain values for various frequency bands (e.g., 7.5, 15, 22.5, 30, 37.5, 45, 52.5, 60, 67.5, 75, 82.5, 90, 97.5, 105, 112.5, 120, 127.5, 135, 142.5, 150, 157.5, 165, 172.5, 180) across different frequency ranges (6.995 to 2.45 GHz).

E1(XY plane) – $\Theta(90)\Phi(0-360)$
 E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
 E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$



