







Radiated Composite Gain Data Radio 3 & Radio 4

Appendix C

Large table containing gain data for various frequencies and directions. Includes columns for Frequency (MHz), Theta, and Gain in dB for multiple radio configurations.



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Theta	Phi(0°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)			
Theta(90°)	4.32/5.91	-8/8.89	8.35/13.86	-12.01/6.27	-2.60/0.63	-3.73/3.5	-6.54/0.46	-4.54/0.61	-0.87/3.66	-1.47/5.42	-3.9/0.35	-1.64/4.83	-7.02/1.43	-0.81/0.5	-2.96/9.8	-0.53/2.1	1.29/0.89	-1.03/3.51	-4.14/0.74	-4.14/0.74	-5.81/2.25	-3.78/7.48	-7.58/9.6	-6.98/10.89	-6.26/11.9	-10.26/4.42	
Theta(75°)	6.71/7.33	-8.48/8.74	9.02/12.64	-14.29/8.54	-3.76/0.91	-6.98/4.27	-7.34/1.29	-7.34/0.89	-3.02/7.12	-3.84/7.08	4.71/1.14	-3.82/4.58	-11.95/3.36	-3.66/0.48	4.41/11.84	-3.14/0.74	-2.63/2.74	-4.1/7.46	-4.1/7.46	-5.81/2.25	-3.78/7.48	-7.58/9.6	-6.98/10.89	-6.26/11.9	-10.26/4.42	-10.26/4.42	
Theta(60°)	8.57/10.34	-12.4/8.64	8.22/11.05	-13.83/13.47	-6.64/2.86	-9.49/6.82	-9.43/9.2	-8.57/4.41	-5.11/10.25	-6.49/8.88	-6.45/2.83	-5.93/5.17	-10.02/6.08	-7.46/2.64	-5.11/9.8	-7.15/5.2	-4.6/3.34	-9.19/12.83	-7.65/7.24	-7.65/7.24	-9.42/9.51	-12.18/14.37	-9.16/14.33	-8.63/11.92	-11.43/8.48	-11.43/8.48	
Theta(45°)	8.35/10.27	-13.29/10.04	8.13/10.87	-18.35/17.53	-9.65/8.2	-10.95/8.28	-10.21/5.83	-10.79/8.43	-5.25/12.48	-10.23/11.55	9.9/5.14	-8.45/9.29	-12.47/8.68	-8.61/4.44	-6.69/11.93	-5.63/4.27	-8.69/8.01	-6.64/16.21	-8.76/8.2	-6.58/16.98	-14.51/18.98	-16.12/13.41	-11.31/10.81	-12.81/6.43	-12.81/6.43	-12.81/6.43	
Theta(30°)	8.09/9.13	-12.02/10.72	9.69/12.54	-18.22/17.58	-14.63/12.92	-13.16/11.72	-17.42/10.08	-12.82/12.23	-7.51/13.39	-9.16/9.76	-9.53/7.14	-11.65/13.1	-15.11/8.38	-7.14/5.51	-6.27/7.23	-7.29/11.14	-7.34/17.64	-14.58/9.51	-8.82/15.99	-18.71/18.64	-18.71/18.64	-18.71/18.64	-18.71/18.64	-18.71/18.64	-18.71/18.64	-18.71/18.64	-18.71/18.64
Theta(15°)	9.65/11.12	-13.84/11.01	9.76/11.48	-18.61/18.07	-19.28/17.87	-17.14/27	-16.63/9.95	-15.15/14.22	-8.56/9.92	-13.75/9.24	-6.38/11.81	-10.14/9.45	-17.17/11.9	-10.92/4.59	-7.5/10.62	-14.67/17.54	-19.08/16.17	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28	-11.11/11.28
Theta(0°)	8.35/11.91	-12.34/12.73	9/11.21	-18.73/18.79	-16.38/19.28	-17.57/18.93	-18.11/14.08	-13.96/17.32	-14.11/14.42	-14.54/18.02	-10.88/14.18	-11.49/16.5	-17.53/19.8	-18.71/6.38	-11.12/13.34	-16.01/12.87	-15.67/7.85	-7.7/15.83	-14.79/9.11	-19.07/18.27	-11.45/17.56	-9.63/17.94	-12.69/13.41	-10.87/10.01	-10.87/10.01	-10.87/10.01	-10.87/10.01



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# Appendix C

Θ (135°)	Θ (142.5°)	Θ (150°)	Θ (157.5°)	Θ (165°)	Θ (172.5°)	Θ (180°)	Θ (187.5°)	Θ (195°)	Θ (202.5°)	Θ (210°)	Θ (217.5°)	Θ (225°)	Θ (232.5°)	Θ (240°)	Θ (247.5°)	Θ (255°)	Θ (262.5°)	Θ (270°)	Θ (277.5°)	Θ (285°)	Θ (292.5°)	Θ (300°)	Θ (307.5°)	Θ (315°)	Θ (322.5°)	Θ (330°)	Θ (337.5°)	Θ (345°)	Θ (352.5°)
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79
9.27/10.03	-12.91/13.84	-10.98/9.23	-16.56/18.99	-16.58/18.51	-17.67/12.03	-16.82/8.05	-10.25/14.27	-17.53/14.72	-15.08/15.31	-10.71/9.9	-18.78/18.64	-18.10/17.66	-15.88/6.44	-18.18/15.33	-16.89/15.57	-10.63/8.08	-8.81/18.99	-10.06/10.71	-10.50/18.74	-19/13.43	-11.16/9.21	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79	-11.69/11.02	-14.76/16.07	-12.06/9.79













Antenna Pattern\_Radio 1

Appendix D

Total Gain Data

Table with 24 columns for frequency (5 to 15 GHz) and 24 columns for gain (-2 to -15 dB). Includes sub-tables for 5.2GHz and 5.6GHz Pol. TotalAnt 1.





Antenna Pattern\_Radio 1

Appendix D

Table with columns for elevation angle (Theta) and azimuth angle (Phi). Rows provide gain values for various frequency ranges (67.5 to 180 degrees Theta) and azimuth angles (0 to 352.5 degrees Phi). Includes sub-headers for gain and frequency ranges.