



Radiated Composite Gain Data_5G6G

Appendix D

Table with columns for frequency (Freq), gain (DG), and various gain components (Phi) for different antenna configurations and frequencies. The table contains numerous numerical data points.



Radiated Composite Gain Data_5G6G

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Theta	Phi	Gain	Phi(75)	Phi(82.5)	Phi(90)	Phi(97.5)	Phi(105)	Phi(112.5)	Phi(120)	Phi(127.5)	Phi(135)	Phi(142.5)	Phi(150)	Phi(157.5)	Phi(165)	Phi(172.5)	Phi(180)	Phi(187.5)	Phi(195)	Phi(202.5)	Phi(210)	Phi(217.5)	Phi(225)	Phi(232.5)	Phi(240)	Phi(247.5)	Phi(255)	Phi(262.5)	Phi(270)	Phi(277.5)	Phi(285)	Phi(292.5)	Phi(300)	Phi(307.5)	Phi(315)	Phi(322.5)	Phi(330)	Phi(337.5)	Phi(345)	Phi(352.5)	
Theta(75)	Phi(75)	3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85	-3.96/4.85



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Theta	(120°)	(127.5°)	(135°)	(142.5°)	(150°)	(157.5°)	(165°)	(172.5°)	(180°)	Freq(Hz)	6.995GPol	ThetaAnt. 1	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°)
Gain	0(0°)	0(7.5°)	0(15°)	0(22.5°)	0(30°)	0(37.5°)	0(45°)	0(52.5°)	0(60°)	0(67.5°)	0(75°)	0(82.5°)	0(90°)	0(97.5°)	0(105°)	0(112.5°)	0(120°)	0(127.5°)	0(135°)	0(142.5°)	0(150°)	0(157.5°)	0(165°)	0(172.5°)	0(180°)	0(195°)	0(210°)	0(225°)	0(240°)	0(255°)	0(270°)	0(285°)	0(300°)	0(315°)	0(330°)	0(345°)
Gain	0(0°)	0(7.5°)	0(15°)	0(22.5°)	0(30°)	0(37.5°)	0(45°)	0(52.5°)	0(60°)	0(67.5°)	0(75°)	0(82.5°)	0(90°)	0(97.5°)	0(105°)	0(112.5°)	0(120°)	0(127.5°)	0(135°)	0(142.5°)	0(150°)	0(157.5°)	0(165°)	0(172.5°)	0(180°)	0(195°)	0(210°)	0(225°)	0(240°)	0(255°)	0(270°)	0(285°)	0(300°)	0(315°)	0(330°)	0(345°)
Gain	0(0°)	0(7.5°)	0(15°)	0(22.5°)	0(30°)	0(37.5°)	0(45°)	0(52.5°)	0(60°)	0(67.5°)	0(75°)	0(82.5°)	0(90°)	0(97.5°)	0(105°)	0(112.5°)	0(120°)	0(127.5°)	0(135°)	0(142.5°)	0(150°)	0(157.5°)	0(165°)	0(172.5°)	0(180°)	0(195°)	0(210°)	0(225°)	0(240°)	0(255°)	0(270°)	0(285°)	0(300°)	0(315°)	0(330°)	0(345°)



Radiated Composite Gain Data_5G6G

Appendix D

Table with 24 columns representing different frequency bands and rows representing various gain measurements (Gain, Phi, etc.) across different antenna configurations. The table contains a dense grid of numerical data points.



Radiated Composite Gain Data_5G6G

Appendix D

Table with columns for frequency (Freq), polarization (Pol), and gain (Gain) for various antenna configurations (Theta and Phi) across a range of frequencies from 5.75 to 6.75 GHz. Each cell contains a numerical gain value.



Radiated Composite Gain Data_5G6G

Appendix D

Table with 32 columns and 100 rows of gain data. Columns include frequency (MHz), polarization (Phi/Ant), and gain values for various antenna configurations and frequencies ranging from 6.475 to 6.895 GHz.



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.33	4.93	5.5	4.83
Ant. 2 Max Gain (dBi)	5.41	4.54	5.26	5.39
Ant. 3 Max Gain (dBi)	5.95	5.96	4.82	4.77
Ant. 4 Max Gain (dBi)	5.79	5.88	5.89	5.91
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/67.5/352.5	Theta/67.5/345	Theta/60/0	Theta/67.5/307.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/52.5/7.5	Theta/60/225	Theta/67.5/285	Theta/75/180
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/315	Theta/75/127.5	Theta/75/292.5	Theta/82.5/127.5
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/75/60	Theta/75/157.5	Theta/75/165	Theta/75/157.5
Max Gain (dBi)	5.95	5.96	5.89	5.91
DG [1SS] (dBi)	9.23	8.77	9.49	9.13
DG [2SS] (dBi)	6.23	5.96	6.49	6.13
DG [4SS] (dBi)	5.95	5.96	5.89	5.91



Radiated Composite Gain Data_6G (4Tx)

Appendix E

Table with columns for frequency (e.g., e(22.5)), gain (Gain), and various antenna configurations (e.g., Phi(0), Phi(15), Phi(30), etc.). The table contains multiple rows of numerical data representing gain values for different frequencies and configurations.



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	15.45	16.66	9.03	3.65	10.72	17.39	14.51	18.99	12.31	14.21	18.67	19.16	5.64	8.22	6.85	19.23	13.84	10.28	13.23	15.61	15.81	16.57	15.52	19.04	11.66	16.27
Phi	7.5	13.14	11.05	5.57	10.25	17.39	14.51	18.99	12.31	14.21	18.67	19.16	5.64	8.22	6.85	19.23	13.84	10.28	13.23	15.61	15.81	16.57	15.52	19.04	11.66	16.27
Gain	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375
Theta	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375
Phi	7.5	13.14	11.05	5.57	10.25	17.39	14.51	18.99	12.31	14.21	18.67	19.16	5.64	8.22	6.85	19.23	13.84	10.28	13.23	15.61	15.81	16.57	15.52	19.04	11.66	16.27
Gain	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375
Theta	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375
Phi	7.5	13.14	11.05	5.57	10.25	17.39	14.51	18.99	12.31	14.21	18.67	19.16	5.64	8.22	6.85	19.23	13.84	10.28	13.23	15.61	15.81	16.57	15.52	19.04	11.66	16.27



Radiated Composite Gain Data_6G (4TX)

Appendix E

	120°	127.5°	135°	142.5°	150°	157.5°	165°	172.5°	180°	180°	172.5°	165°	157.5°	150°	142.5°	135°	127.5°	120°	120°	127.5°	135°	142.5°	150°	157.5°	165°	172.5°	180°	180°	172.5°	165°	157.5°	150°	142.5°	135°	127.5°	120°
Gain	16.21/17.98	10.45/10.36	4.45/3.68	-8.68/10.79	-8.58/11.82	-3.98/2.02	-4.77/1.84	0.51/1.16	3.28/0.31	2.43/2.72	2.29/2.7	1.63/2.45	0.41/1.7	-1.23/1.01	-5.82/4.79	-6.55/7.78	-4.55/3.33	-5.88/10.75	-6.77/8.5	-11.12/16.12	-11.12/16.12	-12.71/9.65	-17.92/18.02	-18.02/19.15	-18.02/20.28	-18.02/21.41	-18.02/22.54	-18.02/23.67	-18.02/24.80	-18.02/25.93	-18.02/27.06	-18.02/28.19	-18.02/29.32	-18.02/30.45		



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	Phi(7.5°)	Phi(15°)	Phi(22.5°)	Phi(30°)	Phi(37.5°)	Phi(45°)	Phi(52.5°)	Phi(60°)	Phi(67.5°)	Phi(75°)	Phi(82.5°)	Phi(90°)	Phi(97.5°)	Phi(105°)	Phi(112.5°)	Phi(120°)	Phi(127.5°)	Phi(135°)	Phi(142.5°)	Phi(150°)	Phi(157.5°)	Phi(165°)	Phi(172.5°)	Phi(180°)
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	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	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	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°)



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.33	4.93	5.5	4.83
Ant. 2 Max Gain (dBi)	5.41	4.54	5.26	5.39
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/67.5/352.5	Theta/67.5/345	Theta/60/0	Theta/67.5/307.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/52.5/7.5	Theta/60/225	Theta/67.5/285	Theta/75/180
Max Gain (dBi)	5.41	4.93	5.5	5.39
DG [1SS] (dBi)	7.38	6.63	8	7.03
DG [2SS] (dBi)	5.41	4.93	5.5	5.39



Total Gain Data

Table with columns for Freq(Hz), 2.45GPol, TotalAnt. 1, and various antenna gain patterns (Theta and Phi) for frequencies from 0 to 180 degrees. Includes sub-sections for 5.2GPol and 5.3GPol.

