



Radiated Composite Gain Data_5G6G

Appendix D

DG 1SS Result

Freq(Hz)	5.2GPol	Phi	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°)	
DG(dB)	Phi(7.5°)	Phi(22.5°)	Phi(37.5°)	Phi(52.5°)	Phi(67.5°)	Phi(82.5°)	Phi(97.5°)	Phi(112.5°)	Phi(127.5°)	Phi(142.5°)	Phi(157.5°)	Phi(172.5°)	Phi(187.5°)	Phi(202.5°)	Phi(217.5°)	Phi(232.5°)	Phi(247.5°)	Phi(262.5°)	Phi(277.5°)	Phi(292.5°)	Phi(307.5°)	Phi(322.5°)	Phi(337.5°)	Phi(352.5°)		
Theta(0°)	-8.88/9.57	-9.41/8.57	-8.68/9.89	-8.87/1.31	-7.06/6.5	-6.14/5.76	-5.82/7.07	-6.84/7.07	-7.98/8.54	-8.93/9.38	-5.57/6.29	-7.77/9.12	-10.29/9.68	-10.52/11.32	-10.31/10.3	-8.91/6.53	-6.57/8.39	-9.77/10.25	-8.84/8.4	-9.22/12.44	-13.78/8.9	-7.19/6.99	-11.85/12.92	-10.73/10.04	-8.71/8.36	-8.41/8.28



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Appendix D

Theta	4.69/5.77	-7.79/9.18	-10.71/12.57	-13.43/8.62	-5.88/5.44	-4.98/6.27	-7.89/7.66	-5.54/5.54	-8.23/9.1	-7.36/4.42	-2.91/3.65	-5.06/8.6	-9.95/10.92	-10.57/9.15	-7.18/7.31	-8.56/8.65	-9.51/7.78	-7.72/9.23	-13.09/9.24	-7.68/6.06	-7.01/7.32	-6.45/6.09	-7.24/5.94	-5.41/4.57																							
Theta(30°)	-4.85/5.38	-5.82/7.44	-10.56/8.46	-7.34/9.3	-9.49/6.62	-5.44/5.96	-8.31/8.31	-9.99/14.46	-9.68/9.51	-8.04/3.66	-5.86/6.1	-8.12/11.7	-10.53/10.67	-11.10/10	-8.84/9.56	-6.03/5.65	-5.66/6.69	-7.26/8.62	-10.55/9.24	-8.23/4.77	-7.81/10.03	-10.61/6.01	-8.12/9.74	-7.55/6.54																							
Theta(45°)	-5.59/2.93	-3.97/9.68	-5.14/3.47	-4.64/4.58	-6.72/6.07	-6.61/8.33	-10.45/11.1	-10.59/8.35	-6.46/2.69	-2.98/3.55	-7.39/6.37	-7.06/6.22	-9.45/14.67	-10.39/9.45	-6.19/2.9	-14.87/10.14	-5.85/5.03	-4.42/7.66	-8.33/6.81	-6.28/7.99	-6.87/7	-8.24/5.28	-6.21/7.22	-4.87/6.46																							
Theta(60°)	-2.71/4.33	-2.62/6.8	-6.32/4.21	-4.64/3.81	-3.82/6.37	-7.5/8.68	-11.26/6.66	-12.18/11.05	-8.31/2.34	-1.92/3.38	-2.84/3.33	-5.79/8.51	-8.49/9.34	-9.96/12.66	-7.24/10.41	-12.55/10.7	-4.72/4.17	-3.63/7.74	-8.26/6.27	-4.12/3.97	-7.17/8.77	-6.05/6.3	-6.76/8.02	-5.52/4.92																							
Theta(75°)	-3.71/7.69	-2.33/7.44	-7.15/4.63	-3.63/3.14	-4.36/7.38	-10.53/8.7	-11.23/15.13	-15.29/14.21	-8.95/3.67	-4.53/3.44	-2.14/0.74	-2.91/4.33	-4.94/8.82	-6.92/11.81	-6.53/10.21	-12.79/12.56	-7.12/4.29	-2.64/6.36	-4.4/6.19	-3.35/4.4	-5.07/5.49	-5.37/7.09	-6.71/5.96	-6.41/5.58																							
Theta(90°)	-4.73/3.51	-3.37/7.3	-9.26/7.99	-5.27/5.12	-5.83/9.01	-9.41/11.03	-14/11.18	-11.75/10.52	-7.37/6.75	-4.99/5.79	-2.59/3.54	-2.29/2.13	-5.34/6.41	-6.99/9.38	-8.19/10.95	-9.36/15.19	-5.4/5.82	-4.93/6.39	-5.38/6.59	-4.62/7.97	-5.08/3.5	-6.78/7.11	-3.67/6.57	-6.71/7.04																							
Theta(105°)	-4.13/6.62	-4.94/9.71	-9.93/9.47	-6.12/6.02	-7.2/12.34	-13.4/12.76	-11.99/13.98	-6.7/17.58	-7.77/7.07	-10/5.11	-6.4/3.22	-4.47/2.71	-3.74/5.23	-7.39/5.86	-6.8/6.64	-9.43/12.1	-6.81/9.8	-5.33/4.58	-3.8/9.3	-4.32/7.56	-3.45/4.37	-6.37/7.26	-3.09/7.08	-7.48/8.58																							
Theta(120°)	-3.24/5.43	-6.62/7.87	-10.33/9.57	-10.06/10.44	-7.79/13.48	-15.29/11.55	-10.37/12.47	-10.33/5.93	-7/2.56	-7.85/7.48	-5.31/3.17	-3.53/3.53	-3.14/4.16	-6.08/4.19	-7.39/6.74	-6.3/2.42	-5.06/4.34	-2.5/8.73	-4.41/6.22	-3.72/2.65	-8.62/6.93	-4.85/7.91	-6.4/7.18																								
Theta(135°)	-3.27/5.37	-6.78/8.32	-10.87/9.5	-8.68/9.58	-9.17/11.42	-14.94/11.36	-9.45/11.4	-10.01/7.97	-4.32/7.45	-7.35/6.01	-6.12/2.23	-3.1/4.22	-3.24/4.17	-6.05/3.7	-8.38/7.45	-6.8/8.91	-5.58/2.31	-4.42/3.11	-4.81/7.04	-4.37/5.78	-4.54/4.4	-6.47/6.01	-4.92/9.01	-6.26/6.35																							
Theta(150°)	-3.71/7.29	-9.2/9.05	-10.28/8.86	-8.15/8.84	-7.69/11.86	-13.27/12.63	-9.15/10.38	-8.75/9.63	-6.66/6.74	-9.77/8.1	-6.32/2.79	-2.25/3.21	-4.27/2.32	-6.9/3.83	-7.12/8.63	-5.89/7.27	-6.92/3.16	-6.51/5.35	-4.14/10.86	-9.64/4.49	-3.5/4.39	-5.68/6.63	-6.34/8.55	-5.11/6.75																							
Theta(165°)	-4.56/8.1	-9.28/8.41	-10.2/8.77	-8.66/9.81	-8.62/14.86	-13.68/11.42	-9.29/11.48	-8.45/8.86	-6.74/6.67	-8.5/8.69	-6.23/2.82	-4.61/2.21	-7.21/2.93	-4.45/5.12	-11.38/8.79	-7.89/6.6	-5.3/5.56	-7.23/5.03	-7.21/2.17	-8.71/5.55	-4.81/4.86	-5.61/7.26	-5.9/8.69	-5.48/8.28																							
Theta(180°)	-6.15/7.53	-7.5/10.09	-8.43/7.47	-6.1/8.61	-9.73/12.04	-14.12/10.97	-8.62/10.23	-7.28/10.02	-8.26/6.73	-8.68/7.05	-6.89/4.75	-5.9/3.07	-6.71/5.3	-7.33/5.2	-14.07/6.63	-4.94/9.31	-12.5/8.92	-12/5.65	-7.97/10.75	-9.39/5.29	-3.52/4.47	-5.28/7.33	-7.98/7.43	-5.35/7.62																							
Theta(210°)	-4.86/8.5	-7.91/6.83	-8.43/8.35	-6.55/9.07	-11.3/10.13	-13.43/11.07	-6.48/8.35	-7.26/9.14	-8.88/6.66	-7.76/6.8	-6.44/8.55	-6.98/6.67	-9.15/10.5	-12.63/7.96	-9.8/10.14	-10.18/8.71	-14.84/10.04	-8.94/12.2	-6.8/19	-5.08/3.81	-7.95/6.16	-7.03/6.83	-6.63/6.93																								
Theta(225°)	-6.28/8.09	-6.71/8.75	-8.58/10.67	-7.99/9.61	-9.6/8.43	-12.8/12.65	-8.38/7.37	-8.83/10.82	-7.49/6.41	-4.79/6	-4.61/3.81	-5.87/5.04	-7.67/10.69	-10.66/10.78	-11.89/5.95	-6.58/9.14	-9.71/12.47	-15.51/10.15	-4.99/7.84	-8.62/7.59	-8.12/3.13	-7.72/8.29	-7.41/5.72	-6.73/6.63																							
Theta(240°)	-5.27/8.02	-7.3/8.84	-8.66/10.26	-10.53/10.21	-7.91/8.91	-11.44/10.67	-11.74/10.42	-7.48/6.03	-5.25/8.56	-2.62/4.06	-9.89/3.72	-6.44/6.67	-6.63/7.19	-7.4/6.53	-9.44/5.05	-7.87/14.94	-10.04/8.4	-8.39/10.51	-8.07/10.44	-6.54/10.32	-7.62/5.86	-10.35/8.33	-4.53/4.26	-5.77/6.6																							
Theta(255°)	-5.35/8.6	-9.28/9.56	-14.77/11.34	-9.12/8.84	-9.66/12.77	-13.86/13.3	-11.95/8.45	-6.56/6.11	-6.21/9.01	-6.07/8.7	-7.42/3.93	-7.41/6.82	-11.91/14.38	-15.77/15.88	-13.42/11.98	-9.13/10.72	-10.49/10.87	-5.62/6.39	-10.37/9.7	-10.73/8.46	-5.43/7.41	-7.04/8.55	-7.41/5.72																								
Theta(270°)	-8.83/9.78	-8.94/9.55	-11.37/11.67	-9.2/9.11	-9.88/12.02	-15.06/14.97	-11.13/10.43	-13.43/10.4	-8.07/7.1	-6.78/7.87	-8.7/4.77	-7.38/7.29	-7.38/8.47	-9.42/11.97	-14.28/15.53	-13.01/9.49	-7.26/11.52	-11.02/7.22	-8.46/9.92	-6.55/9.21	-14.96/10.44	-6.73/8.6	-10.3/7.18	-5.22/6.58																							
Theta(285°)	-6.02/9.56	-10.17/9.98	-9.43/8.33	-7.54/5.38	-4.78/6.3	-8.97/12.52	-12.33/10.82	-8.83/8.03	-5.38/7.44	-9.53/8.06	-7.9/8.35	-7.44/7.21	-8.81/13.54	-15.04/13.72	-15.01/15.14	-11/11.34	-13.82/13.34	-7.44/5.7	-8.19/9.27	-7.92/10.01	-13.26/8.4	-7.11/8.85	-9.88/7.87	-5.95/5.25																							
Theta(300°)	-6.4/8.19	-4.84/5.7	-9.02/8.37	-9.23/7.65	-7.22/9.07	-10.17/10.59	-12.42/12.09	-11.81/12.07	-10.34/11.36	-9.81/9.42	-8.88/7.85	-8.31/8.43	-9.83/13.3	-12.18/9.77	-7.59/7.71	-9.78/10.36	-9.82/7.91	-6.52/8.35	-10.4/8.23	-7.33/6.45	-4.94/5.01	-5.65/5.22	-5.08/7.54	-5.93/6.3																							
Theta(315°)	-6.68/7.17	-8.71/9.29	-11.27/8.14	-10.9/9.84	-9.33/10.3	-8.75/7.49	-8.97/10.76	-11.91/12.2	-13.49/13.24	-10.44/11.22	-12.2/10.98	-10.88/10.64	-12.96/14.42	-14.57/15.43	-15.19/14.75	-12.88/11.42	-12.21/13.45	-12.81/11.81	-10.05/7.78	-7.98/7.91	-6.84/6.95	-7.44/6.17	-5.72/5.94	-6.08/6.52																							
Theta(330°)	-7.68/7.51	-7.23/8.39	-8.11/8.75	-10.81/9.84	-13.38/13.9	-13.51/14.33	-11.3/10.36	-8.95/8.76	-10.29/14.47	-14.45/11.08	-11.99/9.71	-8.41/8.66	-8.61/8.07	-10.9/11.03	-12.55/12.49	-10.9/11.57	-9.45/9.58	-7.62/7.51	-7.39/7.33	-6.95/6.49	-7.4/6.94	-6.07/7.34																									
Phi(90°)	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta																						
DG(dB)	Phi(75°)	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°)	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(0°)	-6.89/6.13	-6.72/6.5	-5.61/6.02	-5.76/4.71	-5.36/4.38	-4.97/5.25	-4.59/5.55	-5.41/6.34	-9.16/10.36	-10.2/11.04	-10.04/9.24	-7.64/5.89	-5.22/4.55	-3.71/3.54	-2.29/2.32	-2.47/1.67	-2.85/2.82	-3.19/4.66	-4.27/5.58	-6.65/6.6	-6.97/6.96	-7.34/7.71	-8.19/7.27	-6.92/7.03																							
Theta(7.5°)	-1.95/8.18	-0.77/7.05	-0.99/6.06	-1.64/2.42	-2.52/3.45	-4.38/5.89	-5.98/7.11	-8.75/8.75	-8.19/7.96	-6.12/5.19	-5.01/5.14	-5.62/5.57	-5.21/5.32	-5.79/5.73	-6.89/7.13	-8.1/8	-7.55/9.17	-6.42/7.5	-7.78/7.28	-8.96/8.83	-12.11/10.84	-9.49/9.73	-6.78/6.54	-4.22/2.65																							
Theta(15°)	-2.62/2.12	-1.24/1.33	-0.93/0.65	-1.16/1.17	-2.94/3.95	-4.96/6.19	-9.04/9.99	-10.42/12.05	-11.84/10.85	-10.12/10.54	-8.13/7.53	-6.61/6.82	-5.72/3.19	-7.9/8.27	-6.99/6.62	-7.04/8.48	-8.85/9.19	-11.02/12.3	-14.11/13.15	-11.55/9	-7.29/7.66	-4.6/4.3	-3.76/2.99																								
Theta(22.5°)	-0.37/0.1	-0.19/0.42	-0.24/0.23	0.28/0.48	-0.78/1.6	-3.31/4.53	-5.84/6.78	-8.21/9.09	-7.88/6.06	-3.98/3.21	-4.12/3.25	-2.07/2.23	-3.4/3.99	-4.02/4.1	-5.84/9.84	-12.75/10.42	-7.45/6.62	-7.16/7.82	-11.51/11.39	-11.32/8.07	-7.13/6.42	-5.61/4.44	-3.38/2.52	-1.05/0.5																							
Theta(30°)	-0.93/0.95	-0.75/0.08	0.19/0.81	-1.43/2.29	-0.84/0.29	-1.69/1.82	-2.28/3.55	-3.81/2.5	-1.46/1.62	-1.51/1.22	-2.24/0.69	-0.77/0.21	-3/2.76	-3.29/5.5	-6.45/4.18	-6.76/9.31	-7.23/9.3	-10.69/9.99	-5.51/2.54	-1.19/0.36	-1.2/0.98	-2.28/4.49	-2.71/4.7																								
Theta(37.5°)	0.21/0.45	1.71/2.65	2.33/3.22	0.6/0.63	0.26/0.95	-3.04/3.83	-2.18/3.26	-1.26/0.19	0.57/0.19	-0.54/0.41	0.32/0.84	-0.46/2.55	-2.86/1.37	-0.54/1.42	-3.24/3.35	-3.78/3.65	-3.52/2.73	-3.59/3.57	-3.69/4.56	-2.60/0.18	0.57/0.65	-0.07/1.31	-2.59/3.06	-2.06/4.06																							
Theta(45°)	1.08/1.48	2.41/2.57	2.44/0.93	-0.17/0.91	0.74/0.98	-1.13/5.51	-3.56/1.95	0.35/2.13	0.03/0.15	0.07/0.23	1.81/2.12	2.33/2.2	2.07/2.76	2.49/1.67	-1.14/0.57	-2.04/1.88	-0.59/0.75	0.57/0.82	1.23/1.79	1.75/0.39	-0.9/0.64	1/0.53	-1.08/0.14																								
Theta(52.5°)	2.55/2.56	1.81/2.01	3.41/2.18	1.79/1.48	-0.21/1.63	-1.82/1.12	-1.89/1.89	0.51/2.28	1.22/2.53	3.86/4.95	5.07/5.2	4.25/2.63	2.62/2.04	-1.29/4.47	-1.79/1.35	-4.91/4.09	0.09/0.43	0.73/1.73	1.77/1.99	1.58/1.1	0.77/0.24	2.05/2.16	1.63/2.35																								
Theta(60°)	3.67/3.13	1.66/2.67	2.81/2.11	2.97/2.45	0.17/0.66	0.49/1.48	1.89/1.6	-0.61/1.44	2.43/36	4.46/5.36	4.7/4.36	2.25/0.72	-0.32/1.08	1.16/1.55	-3.61/3.78	-7.83/7.41	-1.11/0.36	-0.27/1.94	1.63/0.93	0.52/2.02	1.49/1.05	2.43/3.96	3.72/3.44																								
Theta(67.5°)	3.91/3.9	2.54/1.97	0.81/0.72																																												



Radiated Composite Gain Data_5G6G

Appendix D

Theta	5.89E+2	-8.91E+2	-9.62E+4	-1.021E+11	-8.12E+4	-1.381E+7	-8.6E+6	-7.05E+4	-6.86E+10	-6.48E+8	-7.08E+6	-8.24E+4	-5.32E+14	-9.66E+12	-1.213E+8	-7.45E+12	-6.5E+10	-1.165E+7	-7.03E+7	-1.38E+19	-4.19E+10	-3.24E+4	-3.73E+5	-5.19E+17
Theta(127.5°)	-6.91E-9.01	-9.58E-8.48	-10.71E-10.48	-9.75E-10.55	-9.48E-12.62	-12.82E-11.65	-10.01E-7.08	-6.83E-9.09	-4.54E-8.34	-5.7E-3.31	-4.32E-4.94	-8.68E-5.05	-5.75E-9.61	-15.64E-9.15	-10.5E-10.3	-11.71E-11.53	-10.88E-10.23	-15.52E-9.49	-8.26E-10.48	-15.67E-8.7	-8.88E-4.36	-1.79E-3.64	-4.01E-6.71	-6.74E-8.69
Theta(135°)	-9.51E-12.88	-11.32E-9.9	-12.48E-12.9	-10.17E-9.93	-10.97E-12.96	-15.04E-15.42	-9.11E-11.37	-9.25E-9.56	-6.51E-8.82	-5.67E-7.52	-6.4E-9.2	-7.37E-4.26	-9.11E-9.7	-7.47E-8.43	-8.86E-11.99	-11.82E-8.79	-8.45E-14.86	-15.83E-14.96	-10.68E-7.97	-11.85E-10.39	-8.11E-2.94	-3.46E-6.75	-7.84E-6.81	-8.38E-8.54
Theta(142.5°)	-9.11E-12.83	-9.29E-9.32	-11.5E-10.66	-8.82E-10.11	-10.4E-9.95	-10.82E-11.43	-12.63E-8.53	-8.87E-9.3	-6.54E-6.23	-4.52E-7.64	-7.17E-7.88	-7.87E-10.01	-9.92E-8.04	-10.54E-12.49	-15.18E-13.7	-14.78E-12.65	-12.9E-14.26	-10.28E-12.41	-11.27E-9.66	-10.01E-8.82	-5.95E-5.67	-9.37E-4.52	-7.14E-5.94	-5.89E-10.01
Theta(150°)	-8.72E-7.64	-10.39E-8.61	-8.77E-10.91	-9.94E-11.29	-14.16E-11.46	-10.87E-11.36	-11.17E-11.76	-13.81E-14.9	-14.49E-10.52	-6.32E-6.06	-6.16E-11.09	-6.07E-6.18	-11.27E-5.91	-8.88E-8.89	-10.39E-14.73	-13.77E-15.25	-11.41E-14.08	-9.89E-7.39	-9.71E-6.63	-9.75E-9.71	-10.81E-10.87	-12.93E-8.19	-7.5E-5.32	-9.46E-9.32
Theta(157.5°)	-8.76E-10.52	-7.94E-6.82	-8.3E-11.68	-13.06E-10.93	-10.71E-12.93	-15.24E-14.05	-14.29E-15.53	-14.32E-11.43	-10.57E-11.56	-9.26E-9.26	-12.21E-7.42	-6.1E-7.06	-11.43E-9.76	-11.23E-12.82	-12.42E-13.58	-13.73E-14.18	-12.49E-12.75	-10.03E-8.46	-6.03E-7.39	-9.94E-11.52	-15.28E-12.49	-11.48E-9.19	-9.29E-7.88	-8.55E-7.67
Theta(165°)	-8.16E-10.31	-11.76E-10.42	-8.58E-8.42	-10.84E-11.53	-10.69E-11.94	-13.65E-14.71	-15.08E-15.65	-12.37E-10.58	-11.18E-11.38	-12.94E-11.12	-8.64E-8.42	-10.62E-12.77	-14.77E-13.86	-9.87E-9.41	-11.84E-14.5	-12.04E-12.65	-14.45E-14.41	-10.62E-7.79	-9.2E-9.49	-10.24E-9.38	-9.01E-6.72	-6.5E-6.46	-7.37E-8.77	-8.03E-7.29
Theta(172.5°)	-5.15E-5.27	-5.32E-4.92	-6.36E-6.99	-7.96E-9.83	-11.43E-12.46	-14.17E-12.32	-12.02E-11.89	-11.29E-10.77	-11.71E-14.32	-15.12E-15.24	-15.48E-15.85	-12.64E-10.42	-10.47E-11.6	-15.63E-15.85	-15.58E-15.18	-15.08E-15.07	-14.65E-11.25	-11.64E-13.39	-11.73E-11.51	-12.12E-11.22	-11.25E-9.35	-8E-7.5	-6.92E-6.24	-6.38E-5.98
Theta(180°)	-5.59E-5.38	-5.04E-7.27	-7.69E-7.7	-9.38E-10.25	-10.63E-11.91	-13.63E-11.89	-11.74E-11.43	-14.29E-12.55	-13.87E-15.05	-15.47E-15.22	-12.81E-11.29	-10.51E-10.07	-10.18E-9.56	-7.65E-6.91	-7.26E-7.56	-10.11E-9.81	-12.45E-12.37	-15.88E-14.85	-9.3E-8.52	-7.77E-6.4	-6.34E-5.81	-5.04E-4.5	-4.74E-5.72	
Freq(Hz)	6.995GPol.	Theta																						
DG(dB)	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°)
Theta(0°)	-5.34E-4.5	-4.19E-3.56	-3.1E-3	-2.9E-2.9	-3.43E-3.27	-4.89E-5.42	-6.22E-7.28	-9.15E-10.03	-11.82E-11.8	-12.41E-13.11	-13.05E-12.57	-10.96E-9.6	-6.22E-7.36	-6.38E-5.57	-5.13E-5.06	-4.61E-5.3	-5.77E-6.02	-6.58E-6.93	-8.24E-9.44	-10.16E-10.9	-11.98E-11.93	-10.6E-9.69	-9.06E-7.34	-6.12E-6.1
Theta(7.5°)	-9.57E-7.55	-6.01E-5.03	-4.95E-4.03	-3.16E-3.22	-3.44E-3.54	-4.07E-5.04	-5.76E-7.62	-9.13E-9.46	-10.68E-11.8	-11.15E-9.58	-8.51E-8.36	-7.45E-6	-5.16E-4.86	-3.17E-2.78	-2.88E-1.85	-1.78E-2.05	-2.26E-3.26	-3.69E-4.18	-5.31E-4.76	-8.08E-9.61	-10.8E-11.77	-13.27E-15.83	-15.1E-15.43	-13.89E-11.06
Theta(15°)	-12.96E-12.28	-9.08E-8.68	-9.12E-8.28	-7.88E-8.03	-6.67E-7.46	-3.71E-2.46	-2.62E-2.87	-4.2E-4.67	-5.91E-7.24	-8.42E-6.93	-5.67E-4.41	-4.24E-4.3	-4.56E-5.47	-6.84E-7.19	-9.58E-9.74	-10.9E-6.4	-6.39E-7.11	-5.01E-5.46	-5.68E-7.36	-6.51E-7.64	-8.92E-9.18	-11.93E-13.58	-15.03E-15.22	-14.71E-14.34
Theta(22.5°)	-9.19E-8.13	-5.66E-3.34	-2.59E-2.03	-1.2E-2.67	-3.18E-5.54	-6.16E-5.9	-3.82E-3.67	-4.19E-5.24	-8.34E-9.51	-6.87E-7.79	-8.18E-3.71	-6.97E-6.87	-6.26E-5.9	-6.3E-1.1	-4.32E-2.58	-1.89E-3.22	-5.05E-5.07	-6.83E-4.48	-4.88E-4.1	-4.73E-5.14	-8.06E-8.2	-6.54E-13.58	-5.31E-4.99	-6.78E-9.36
Theta(30°)	-2.18E-2.64	-2.09E-0.75	-0.53E-1.01	-3.3E-7.52	-9.4E-11.2	-7E-5.37	-4.86E-5.43	-5.9E-4.71	-4.19E-5.31	-5.27E-2.94	-1.81E-1.33	-0.93E-0.67	-0.26E-1.36	4.02E-4.92	6.39E-9.55	-3.88E-2.53	-2.61E-5.57	-6.91E-4.43	-2.74E-2.32	-3.57E-5.99	-4.38E-2.63	-2.82E-4.13	-4.11E-3.75	-4.41E-2.54
Theta(37.5°)	-2.45E-2.17	-1.73E-3.9	-4.22E-2.72	-1.75E-0.65	-0.58E-2.3	-5.03E-2.7	-1.91E-1.53	-2.86E-1.66	-6.34E-4.1	-1.4E-0.66	-0.12E-0.63	0.60E-0.1	0.11E-2.46	-4.23E-3.52	-3.33E-5.99	-7.75E-4.92	-3.66E-4.26	-5.41E-7.34	-2.35E-1.79	-1.64E-0.74	-2.11E-2.98	-2.73E-2.04	0.890E-39	0.640E-07
Theta(45°)	1.341E-6.4	-0.80E-3.4	-0.65E-2.27	-0.38E-2.74	-1.17E-0.8	-2.06E-0.83	-4.11E-6.7	-4.5E-5.97	-1.82E-0.9	1.15E-0.08	-0.67E-0.53	-1.61E-3.31	-1.62E-1.14	0.0E-2	0.09E-1.93	-1.99E-0.95	-2.03E-1.1	-10.78E-0.33	0.05E-0.13	-0.17E-0.42	-0.96E-1.75	1.06E-1.04	0.140E-07	
Theta(52.5°)	1.46E-2.03	-1.09E-0.9	1.41E-1.17	1.32E-1.28	1.11E-0.42	-1.08E-0.24	-2.24E-1.13	-1.13E-6.64	-2.19E-2.5	-1.3E-0.98	1.63E-2.38	2.47E-7.4	2.17E-1.43	0.6E-1.6	2.14E-5.6	2.43E-6.7	1.23E-1.32	-1.28E-0.5	1.55E-1.6	1.66E-0.95	-0.46E-1.83	-0.11E-0.33	3.47E-3.6	2.77E-1.16
Theta(60°)	3.04E-5	2.33E-0.7	3.04E-2.93	0.21E-3.8	2.43E-3.3	1.81E-1.2	1.68E-1.08	0.28E-1.9	0.73E-3.85	-0.93E-1.05	1.64E-3.5	4.35E-4.6	2.41E-2.99	0.0E-7	-0.37E-1.42	1.12E-4.4	1.72E-1.28	-1.15E-0.13	0.69E-0.43	2.15E-4.5	0.49E-1.59	0.13E-53	4.99E-1.7	1.88E-2.5
Theta(67.5°)	3.99E-9	2.26E-1.6	3.31E-1.4	-0.55E-2.7	1.99E-2.4	3.71E-2.3	-0.40E-1.91	0.21E-0.2	1.11E-1.38	-1.04E-1.29	0.14E-0.92	4.28E-1.8	3.74E-9.5	1.44E-3.23	-2.74E-9.1	0.73E-3.2	-3.1E-1	-0.52E-8.52	-1.29E-1.44	0.32E-0.13	2.11E-8	-0.50E-0.68	-1.09E-2.9	4.57E-2.7
Theta(75°)	2.16E-3.73	1.61E-2.64	2.49E-2.11	-0.24E-0.38	0.57E-3.3	3.53E-1.5	-0.59E-0.73	1.77E-7.8	1.21E-0.43	-1.81E-1.6	5.23E-3.79	4.31E-4.2	3.66E-1.6	-1.29E-5.1	1.28E-1.3	-1.02E-0.9	-0.9E-2.45	-0.47E-1.06	2.63E-1.64	2.04E-9.2	-1.50E-4	-2.41E-9.7	4.63E-1.5	2.81E-2.5
Theta(82.5°)	1.71E-3.6	0.89E-1.9	1.44E-7.8	0.32E-0.4	0.37E-3.8	0.81E-4.3	0.18E-0.56	0.62E-5.4	1.0E-2.1	-1.29E-6.9	5.36E-0.3	4.63E-5.9	-1.16E-3.5	0.74E-6.9	1.99E-1.1	-0.35E-0.32	-1.06E-0.23	4.99E-2.22	2.09E-1	-1.83E-0.8	-3.66E-1.48	3.95E-5.9	2.03E-4.1	
Theta(90°)	1.33E-2.56	-2.04E-0.3	-0.43E-0.2	-0.21E-0.62	-0.16E-0.1	0.11E-0.7	-0.77E-0.62	-0.07E-0.85	-0.16E-0.56	-0.62E-0.9	4.48E-6.9	4.46E-6.7	4.03E-7.3	-0.6E-1.82	-7.19E-1.05	2.68E-2.42	-0.84E-3.5	-1.63E-4.13	5.35E-5.24	1.1E-3.34	-3.02E-1.93	-3.66E-1.6	2.64E-2.72	0.37E-7.1
Theta(97.5°)	0.87E-1.66	-1.74E-0.31	-0.81E-1.35	-0.84E-1.21	-0.49E-1.36	-0.87E-0.79	-1.2E-1.72	-0.44E-0.7	-1.27E-1.06	0.16E-0.11	3.77E-2.26	3.26E-6.4	2.34E-0.7	-1.82E-2.93	-2.13E-1.13	2.16E-1.02	-3.03E-1.45	-0.19E-0.38	3.19E-1.28	-2.92E-7.68	-4.3E-3.18	-3.43E-6.4	0.88E-2.04	0.06E-0.01
Theta(105°)	0.15E-7.5	-1.98E-0.22	-1.53E-1.62	-1.25E-2.13	-1.15E-2.09	-2.38E-2.75	-1.88E-2.23	-1.56E-0.1	-2.49E-1.95	-0.71E-1.78	0.85E-7.1	0.24E-6.6	-0.13E-0.03	-1.37E-3.36	-4.67E-8.95	-1.54E-2.5	-9.23E-4.85	-4.62E-5.94	-4.53E-1.33	-10.76E-6.13	-5.68E-7.16	-3.02E-9.8	0.47E-6.2	-0.91E-7.1
Theta(112.5°)	-2.39E-1.93	-2.86E-2.24	-2.07E-2.95	-1.17E-2.66	-0.95E-1.53	-3.35E-3.5	-2.55E-3.38	-1.25E-0.69	-1.1E-3	-3.18E-3.05	-2.71E-1	-2.67E-1.03	-2.99E-4.1	-4.14E-3.7	-6.23E-6.53	-3.85E-6.25	-7.7E-2.7	-10.37E-9.49	-8.51E-13.99	-14.49E-9.03	-10.71E-4.01	-3.89E-0.1	-0.8E-0.24	-1.73E-3.11
Theta(120°)	-3.33E-1.56	-4.97E-1.55	-3.61E-4.04	-2.44E-1.7	-0.6E-0.93	-1.51E-0.39	-1.16E-1.35	-2.52E-1.7	-0.67E-1.4	-6.82E-0.33	-7.38E-2.93	-6.28E-6.4	-4.4E-4.43	-4.4E-3.33	-10.56E-11.61	-6.82E-5.56	-0.54E-4.39	-3.59E-8	-5.38E-8.87	-10.34E-7.89	-6.96E-6.89	-3.80E-0.99	-2.38E-1.93	-3.12E-6.65
Theta(127.5°)	-2.84E-3.94	-7.69E-1.64	-5.52E-5.55	-5.52E-1.83	-2.01E-1.73	-0.63E-1.4	-3.3E-4.13	-3.2E-9.96	-0.86E-3.04	-5.22E-7.73	-9.35E-3.17	-1.96E-5.57	-6.15E-6.6	-8.59E-6.62	-3.92E-14.41	-5.42E-5.29	-6.59E-9.49	-6.45E-7.16	-7.75E-14.76	-8.87E-11.26	-9.95E-3.54	-5.03E-2.19	-4.89E-1.32	-5.24E-6.22
Theta(135°)	-7.07E-5.85	-9.01E-10.64	-4.73E-2.75	-3.24E-4.7	-5.55E-4.2	-3.93E-1.94	-4.49E-3.97	-5.34E-5.97	-4.67E-2.81	-4.25E-7.28	-10.63E-8.19	-8.86E-9.16	-6.51E-4.22	-7.3E-12.05	-10.35E-10.73	-12.25E-14.4	-6.95E-3.49	-6.33E-6.63	-11.46E-12.05	-4.71E-2.62	-7.72E-4.33	-5.39E-3.19	-8.41E-4.4	-5.87E-6.05
Theta(142.5°)	-9.69E-8.54	-7.43E-6.74	-4.28E-3.33	-2.66E-4.3	-5.11E-6.23	-3.09E-1.9	-4.06E-8.14	-7.87E-5.4	-5.22E-2.98	-6.25E-8.42	-7.76E-13.97	-11.24E-12.81	-7.8E-6.83	-6.25E-5.43	-10.97E-8.82	-6.56E-8.17	-11.63E-13.08	-12.84E-12.23	-7.81E-12.95	-7.71E-8.35	-5.68E-6.76	-5.38E-6.92	-7.9E-6.94	-9.48E-8.54
Theta(150°)	-11.87E-9.54	-7.82E-11.7	-4.7E-4.7	-4.37E-3.54	-2.17E-3.84	-4.55E-4.17	-6.69E-6.71	-6.56E-7.1	-															



Radiated Composite Gain Data_5G6G

Appendix D

Theta	121.321	-5.66/2.78	-5.46/-5.61	-2.05/-3.74	-5.47/7.02	-4.26/5.53	-6.92/5.35	-7.35/6.85	-7.99/6.65	-10.14/7.89	-3.56/2.01	-2.10	-2.51/2.39	-1.41/3.57	-3.13/10.35	-2.27/4.35	-14.67/12.74	-12.93/11.11	-8.95/8.06	-13.64/5.45	-4.48/10.52	-3.91/1.79	0.22/0.29	-2.56/4.23
Theta (105°)	-2.97/3.6	-6.83/3.72	-5.6/6.07	-2.75/6.08	-6.13/6.76	-7.1/8.72	-6.77/5.68	-5.82/4.84	-7.61/9.38	-13.62/13.51	-8.4/6.09	-2.72/3.47	-3.25/4.72	-8.38/7.81	-7.96/7.37	-4.99/11.95	-12.54/6.34	-10.69/9.9	-7.86/19.18	-18.1/8.6	-10.85/6.49	-4.66/2.93	-1.8/2.37	-2.75/5.12
Theta (120°)	-5.03/4.96	-7.44/1.63	-5.56/5.1	-6.12/5.78	-6.93/4.82	-4.3/3.32	-4.65/3.78	-6.7/6.6	-9.58/6.15	-17.92/9.19	-11.78/9.6	-7.78/9.24	-4.71/4.34	-8.89/11.54	-15.53/11.97	-11.25/8.99	-3.83/7.01	-10.49/11.38	-7.91/13.97	-12.16/7.17	-10.66/7.53	-3.55/2.46	-3.74/4.39	-3.55/7.54
Theta (127.5°)	-4.27/5.75	-8.5/12.4	-8.4/7.2	-9.09/7.7	-7.34/5.06	-3.57/4.15	-7.28/7.61	-6.87/9.27	-8.77/6.23	-12.02/9.13	-10.58/6.91	-13.11/4.26	-4.94/3.45	-9.17/5.23	-3.94/18.29	-9.29/9.12	-9.18/10.22	-9.12/19.24	-14.24/17.56	-8.18/11.96	-17.75/4.9	-5.74/3.36	-4.87/2.64	-6.76/8.21
Theta (135°)	-7.07/7.2	-10.15/16	-9.88/7.69	-8.14/14.17	-18.94/13.13	-11.65/6.99	-13.38/8.37	-8.16/11.44	-10.9/8.32	-7.04/11.87	-18.46/13.43	-10.43/8.9	-6.6/2.55	-7.26/18.01	-12.1/18.33	-18.93/6.82	-12.22/6.11	-13.58/13.7	-17.68/14.43	-8.78/17.96	-10.49/4.1	-4.71/4.99	-7.76/3.86	-7.43/8.08
Theta (142.5°)	-10.59/7.78	-7.55/9.94	-10.15/6.82	-5.99/8.91	-9.7/11.14	-9/6.48	-11.96/12.58	-13.81/11.67	-15.84/11.53	-11.21/12.54	-18.36/16.1	-13.27/14.16	-7.98/5.48	-15.11/8.38	-11.05/15.67	-14.06/12.66	-14.98/15.99	-18.51/18.39	-17.79/14.56	-13.48/11.65	-7.06/7.28	-5.58/6.04	-7.11/5.72	-10.05/10.11
Theta (150°)	-12.19/9.4	-8.26/8.2	-12.79/15.26	-10.13/9.78	-7.4/9.77	-13.21/8.66	-12.49/13.76	-17.11/18.23	-18.44/17.01	-13.47/11.33	-17.77/11.07	-18.54/15.44	-8.1/8.4	-9.89/10.42	-19.35/11.15	-16.25/17.49	-16.98/11.87	-17.41/18.49	-16.8/17.25	-17.56/13.35	-11/12.62	-14.35/9.58	-4.96/7.47	-13.14/18.72
Theta (157.5°)	-9.91/6.37	-6.64/6.91	-9.21/11.14	-16.42/17.92	-17.27/17.29	-18.61/14.69	-16.14/18.02	-17.89/18.86	-17.63/18.63	-18.14/17.82	-17.1/13.48	-14.01/11.78	-10.88/14.46	-12.41/9.75	-7.19/10.28	-16.46/12.83	-12.61/18.25	-18.15/17.91	-18.89/18.67	-17.67/18.63	-17.03/17.29	-18.7/15.21	-10.49/11.83	-14.15/11.76
Theta (165°)	-16.27/17.23	-11.48/8.13	-7.91/8.68	-11.3/15.53	-19.05/18.27	-18.6/19.1	-18.43/18.95	-17.89/18.12	-18.74/19.04	-16.29/15.68	-17.8/18.36	-18.52/15.31	-17.67/17.48	-16.61/18.1	-17.68/18.03	-15.24/16.01	-17.66/15.87	-15.6/12.94	-18.21/18.93	-17.51/17.2	-16.64/17.96	-18.18/16.62	-13.17/11.5	-11.52/15.64
Theta (172.5°)	-19.12/16.71	-16.91/14.57	-12/10.88	-9.78/9.59	-9.72/12.02	-16.63/18.15	-18.69/18.84	-18.34/18.7	-17.62/18.18	-18.9/19.24	-17.51/18.96	-18.52/17.88	-16.84/17.87	-17.55/18.42	-17.51/17.88	-18.66/19.45	-18.68/17.73	-18.96/17.62	-18.13/18.57	-17.47/17.93	-18.22/18.26	-17.31/17.38	-19.05/17.87	-18.61/18.53
Theta (180°)	-14.58/17.91	-13.05/14.83	-18.17/16.07	-17.42/14.91	-14.77/17.51	-15.3/15.75	-18.7/18.8	-17.3/18.74	-18.32/17.99	-17.56/17.48	-18.97/18.71	-18.14/17.3	-18.86/18.63	-14.95/15.19	-16.72/13.86	-16.77/17.36	-17.02/19.23	-17.06/16.81	-18.55/18.83	-18.4/17.71	-18.59/18.71	-17.56/18.09	-16.47/14.99	-16.7/16.08
Freq(Hz)	6.995GPol.	Phi/Ant. 2																						
Gain	Phi(0°)/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°)/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 (0°)	-8/11.43	-11.99/13.27	-14.03/14.55	-18.33/18.49	-14.45/14.58	-18.26/16.29	-13.52/11.12	-9.71/8.32	-7.46/7.22	-6.7/6.17	-5.44/5.37	-6.28/5.63	-5.78/7.6	-8.63/9.8	-12.75/15.07	-18.14/17.76	-18.7/11.38	-8.37/7.53	-6.74/5.23	-4.35/3.96	-3.97/4.1	-4.03/4.01	-5.15/5.36	-6.32/7.03
Theta (7.5°)	-5.13/4.73	-7.81/9.83	-12.72/18.21	-19.14/18.54	-13.51/10.04	-8.15/5.93	-5.05/3.43	-2.43/1.78	-1.89/1.25	-3.52/4.51	-6.57/8.09	-9.78/9.96	-10.12/11.71	-13.82/16.61	-18.75/16.47	-16.75/13.39	-13.84/16.3	-14.11/17.13	-18.09/17.65	-12.01/9.28	-8.12/6.81	-5.73/5.5	-5/4.43	-4.36/4.54
Theta (15°)	-9.77/13.96	-18.9/17.36	-18.45/18.96	-18.59/16.52	-14.73/16.16	-15.07/12.11	-9.09/6.38	-4.66/3.84	-3.68/5.27	-8.08/11	-13.96/13.26	-11.97/10.37	-8.65/7.23	-7.13/7.28	-8.34/11.93	-15.8/16.91	-14.28/16.59	-16.77/18.82	-10.33/6.69	-4.2/3.78	-4.97/6.77	-8.34/6.85	-5.78/5.52	-5.93/7.31
Theta (22.5°)	-10.87/8.8	-9.12/9.46	-11.26/10.81	-11.65/6.53	-8.12/13.7	-9.82/17.53	-14.57/12.3	-9.77/10.75	-12.49/13.27	-13.52/14.47	-18.24/17.62	-13.54/11	-10.3/8.58	-10.07/12.8	-10.33/10.99	-9.29/11.45	-17.91/18.73	-8.67/6.12	-2.73/1.1	-0.75/3.3	-7.67/15.67	-10.68/7.24	-5.84/6.84	-8.96/10.41
Theta (30°)	-5.09/6.35	-6.67/7.41	-8.8/10.21	-10.61/7.04	-10.91/17.82	-14.73/11.84	-17.1/17.12	-14.87/18.8	-13.77/14.05	-13.65/9.02	-17.12/8.57	-9.23/11.01	-10.62/12.96	-18.61/18	-15.89/19.61	-15.16/14.91	-17.8/11.78	-6.17/4.81	-8.08/6.78	-8.33/8.59	-11.03/11.29	-11.23/10.26	-8.61/6.27	
Theta (37.5°)	-8/9.34	-5.26/5.15	-5.65/11.72	-10.71/13.27	-9.09/5.5	-9.36/6.18	-9.96/10.23	-9.59/13.31	-13.99/7.73	-4.5/3.87	-5.25/10.74	-18.81/14.2	-12.52/11.22	-7.54/8.43	-15.03/18.56	-9.57/11.81	-16.18/8.32	-4.76/5.39	-5.72/8.38	-7.97/7.04	-10.25/9.99	-6.29/7.91	-14.69/17.32	-10.53/7.83
Theta (45°)	-9.73/6.44	-4.58/6.09	-11.13/17.57	-17.66/17.29	-8.7/7.59	-7.63/5.63	-5.49/7.89	-11.99/14.09	-13.67/8.31	-8.07/6.73	-4.89/13.88	-19.41/11.13	-12.67/18.99	-12.32/10.35	-18/11.14	-6.68/9.01	-14.83/11.94	-6.7/5.3	-3.66/4.07	-8.89/9.52	-12.94/9.51	-6.46/11.1	-19.26/14.23	-8.01/6.85
Theta (52.5°)	-6.51/4.96	-7.57/11.02	-18.61/18.14	-13.71/17.78	-10.34/8.16	-7.51/5.07	-8.99/7.57	-8.38/17.47	-8.22/17.59	-10.07/2.75	-2.9/8.92	-15.3/15.6	-10.43/8.82	-14.96/13.51	-14.96/13.55	-10.14/12.77	-9.29/6.82	-3.65/3.16	-2.5/3.08	-6.47/7.14	-9.93/18.7	-18.3/18.52	-17.91/17.49	-9.95/6.16
Theta (60°)	-6.9/5.83	-8.16/10.76	-15.97/18.28	-13.61/16.99	-18.38/10.39	-8.98/9.34	-9.56/6.2	-9.01/11.5	-5.27/16.35	-9.2/6.97	-3.73/3.34	-6.32/10.61	-16.7/8.24	-13.27/9.83	-16.55/14.76	-16.18/13.56	-6.7/7.11	-4.84/5.05	-5.46/5.38	-9.18/8.71	-9.97/18.07	-11.9/18.37	-15.84/16.98	-13.17/14.1
Theta (67.5°)	-9.75/11.63	-6.86/18.49	-13.98/17.96	-11.7/15.74	-10.73/18.99	-9.09/11.78	-10.81/9.23	-14.05/6.36	-4.29/5.42	-12.05/10.52	-13.89/6.62	-14.44/7.93	-15.71/14.39	-9/12.76	-15.37/9.02	-13.28/18.78	-8.47/8.54	-8.88/9.51	-5.66/8.18	-13/8.48	-6.15/11.87	-12.64/13.24	-11.26/12.35	-9.96/10.02
Theta (75°)	-8.11/11.93	-7.93/18.55	-14.42/18.27	-10.44/13.8	-13.34/18.08	-9.31/9.55	-19.01/11.63	-17.89/7.03	-5.53/4.76	-16.47/12.13	-13.84/4.45	-11.61/10.63	-11.88/12.6	-10.26/13.7	-16.07/8.18	-18.14/18.81	-7.64/6.92	-6.15/7.39	-3.84/7.61	-12.51/9.95	-7.06/8.58	-10.49/12.41	-10.73/15.06	-10.49/9.89
Theta (90°)	-8.22/16.75	-10.68/18.18	-13.33/16.9	-10.9/11.38	-18.51/14.21	-14.08/8.4	-9.39/13.88	-16.9/10.98	-7.57/6.98	-17.44/12.89	-14.77/19.29	-7.55/17.88	-12.88/7.13	-13.64/8.96	-17.35/11.96	-15.37/16.86	-8.13/5.21	-4.69/12.24	-6.54/10.5	-11.5/7.49	-6.6/6.63	-8.81/11.93	-9.21/17.72	-9.66/9.53
Theta (97.5°)	-8.07/16.76	-13.44/18.04	-12.77/15.6	-10.73/12.62	-18.11/13.3	-19.29/7.53	-7.39/10.49	-12.64/13.73	-9.9/9.96	-17.45/16.83	-11.91/5.55	-6.25/13.96	-14.46/8.78	-17.65/11.6	-17.82/15.46	-10.35/10.56	-4.86/10.63	-10.32/10.99	-10.35/10.56	-8.66/8.46	-6.54/9.59	-7.78/10.92	-9.11/15.15	-10.27/13.7
Theta (105°)	-8.2/16.84	-18.86/19.11	-11.34/12.33	-14.38/11.13	-18.04/12.16	-18.46/10.71	-8.36/11.22	-8.68/17.34	-11.69/12.71	-15.14/18.21	-9.82/8.42	-6.67/7.77	-18.69/8.53	-13.82/13.18	-17.8/12.67	-9.18/10.08	-9.47/15.71	-12.3/7.29	-9.33/8.63	-8.76/9.36	-5.17/10.78	-8.6/12.3	-8.59/11.18	-13.85/13.85
Theta (112.5°)	-12.26/13.72	-18.76/17.81	-14.85/13.05	-13.28/13.4	-13.82/18.65	-17.55/14.66	-10.71/11.13	-9.78/18.35	-16.92/18.41	-13.35/18.39	-17.12/14.11	-7.93/12.68	-12.78/11.82	-12.14/19.14	-12.51/11.69	-8.44/7.58	-14.35/12.55	-14.79/8.57	-8.7/12.85	-10.12/7.89	-6.52/9.03	-7.33/8.89	-10.03/11.1	-10/18.26
Theta (120°)	-15.67/12.65	-17.48/18.13	-15.29/8.98	-13.84/14.73	-18.13/16.43	-16.89/15.05	-14.99/10.39	-7.73/5.99	-8.54/15.85	-13.04/10	-16.94/16.92	-16.53/12.77	-9.54/17.61	-10.27/19.11	-16.34/10.24	-4.61/8.64	-6.38/8.22	-16.47/11.6	-7.39/8.67	-10.53/4.21	-3.25/18.65	-7.14/8.43	-8.4/9.87	-10/18.87
Theta (127.5°)	-15.73/10.59	-15.05/17.54	-18.17/11.17	-11.59/12.72	-14.96/9.73	-12.83/11.64	-9.1/8.01	-3.73/4.76	-18.98/8.32	-18.09/9.97	-11.55/18.9	-14.54/9.35	-9.69/13.71	-16.94/11.99	-13.07/17.96	-10.76/14.04	-9.73/7.61	-17.11/12.6	-11.93/6.98	-9.54/6.91	-5.05/10.05	-12.9/11.45	-9.37/8.69	-16.71/18.59
Theta (135°)	-18.65/11.03	-16.43/16.93	-18.21/12.15	-10.34/9.66	-11.86/10.18	-14.11/14.77	-11.49/8.61	-10.27/10.74	-7.84/8.8	-7.59/10.86	-10.5/14.19	-12.85/13	-11.91/14.72	-17.31/14.97	-14.9/18.68	-12.45/10.05	-5.79/12.53	-18.03/10.19	-7.72/6.41	-7.06/12.29	-11.97/7.1	-3.83/5.88	-10.84/16.05	-19/18.78
Theta (142.5°)	-13.55/13.86	-9.51/9.55	-18.06/17.87	-14.76/12.34	-13.18/12.13	-8.24/8.9	-9.52/18.88	-13.2/8.62	-4.73/7.99	-12.42/7.6	-9.76/19.14	-13.63/11.62	-16.05/17.4	-11.73/17.85	-16.15/9.81	-12.48/18.79	-17.56/18.84	-11.07/14.76	-7.42/11.4	-10.61/10.84	-17.27/8.07	-5.02/5.77	-10.88/18.01	-18.51/18.91
Theta (150°)	-10.72/8.36	-10/10.81	-14.46/13.53	-18.17/18.48	-17.94/18.44	-10.74/11.24	-17.2/9.91	-8.72/15.8	-18.16/11.77	-8.99/9.54	-18.12/10.21	-17.95/18.32	-14.02/18.56	-18.44/15.54	-17.41/18.38	-18.29/18.43	-11.31/18.88	-6.6/5.98	-10.1/10.31	-10.19/11.84	-13.88/13.07			



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

DG 1SS Result

Freq(Hz)	6.175GPol.	Phi1	Phi2	Phi3	Phi4	Phi5	Phi6	Phi7	Phi8	Phi9	Phi10	Phi11	Phi12	Phi13	Phi14	Phi15	Phi16	Phi17	Phi18	Phi19	Phi20	Phi21	Phi22	Phi23	Phi24	Phi25	Phi26	Phi27	Phi28	Phi29	Phi30	Phi31	Phi32	Phi33	Phi34	Phi35		
DG(dB)	Phi(7.5)	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)	Phi(360)	Phi(375)	Phi(390)	Phi(405)	Phi(420)	Phi(435)	Phi(450)	Phi(465)	Phi(480)	Phi(495)	Phi(510)			
Theta(7.5)	-3.78/-4.24	-4.03/-3.87	-3.61/-3.25	-2.88/-2.61	-3/3.43	-3.36/-3.38	-3.85/-4.56	-4.71/-4.45	-3.61/-3.03	-2.69/-2.49	-2.31/-2.09	-2.18/-2.48	-2.41/-2.55	-2.75/-2.77	-2.93/-2.72	-3.15/-3.38	-4.19/-4.27	-4.69/-4.55	-4.76/-4.83	-5.36/-6.08	-6.32/-5.95	-5.89/-5.43	-4.67/-3.71	-2.97/-3.17														
Theta(15)	-4.95/-5.75	-5.13/-5.05	-4.78/-4.93	-4.36/-3.49	-2.68/-2.28	-2.85/-3.3	-2.58/-2.51	-3.21/-2.92	-2.23/-2.55	-2.99/-2.95	-3.46/-4.5	-5.05/-6.1	-6.68/-5.48	-3.92/-3.06	-2.98/-3.46	-3.62/-4.16	-4.77/-5.59	-4.56/-3.81	-3.11/-2.26	-1.65/-2.22	-4.46/-7.42	-7.82/-6.69	-5.69/-4.44	-3.79/-3.35														
Theta(22.5)	-3.18/-3.33	-3.04/-3.45	-5.21/-8.31	-9.12/-7.46	-4.54/-2.73	-2.41/-3.83	-5.44/-4.25	-3.65/-3.09	-3.12/-3.7	-5.42/-5.03	-5.87/-7.03	-7.41/-8.24	-8.52/-5.85	-4.13/-3.3	-3.15/-3.15	-3/4.26	-7.01/-8.98	-4.71/-5.59	-4.58/-3.49	-3.47/-3.98	-3.41/-2.69	-2.6/-3.93	-5.05/-3.73															
Theta(30)	-4.31/-4.05	-3.85/-4.19	-6.72/-8.16	-4.2/-2.03	-3.36/-2.58	-3.17/-6.09	-11.61/-6.65	-5.41/-3.49	-3.5/-5.69	-6.34/-5.67	-7.05/-8.27	-6.63/-4.78	-3.96/-3.62	-3.41/-2.43	-3.75/-4	-3.22/-2.53	-4/6.37	-6.74/-4.55	-5.67/-6.77	-6.46/-7.8	-7.05/-4.29	-2.02/-1.68	-1.94/-2.97	-4.83/-4.64														
Theta(37.5)	-7.24/-5.25	-3.71/-3.61	-4.74/-7.08	-5.35/-2.59	-3.86/-4.15	-6.57/-9.09	-10.67/-7.25	-5.25/-5.71	-4.85/-3	-3.34/-2.5	-2.58/-2.41	-4.08/-2.63	-2.01/-2.41	-3.17/-3.28	-3.94/-7.41	-6.99/-7.63	-4.87/-5.59	-8.55/-5.43	-5.93/-7	-5.08/-4.86	-5.88/-4.18	-3.04/-2.68	-5.56/-8.15	-7.37/-6.71														
Theta(45)	-10.66/-8.51	-6.15/-5.53	-4.83/-5.11	-6.83/-6.07	-5.25/-4.2	-6.82/-6.58	-9.53/-9.05	-6.42/-6.55	-5.65/-4.38	-8.86/-3.72	-2.74/-2.92	-3.45/-4.21	-3.94/-3.63	-2.63/-3.27	-3.61/-8.07	-6.53/-8.95	-5.14/-9.8	-7.17/-8.2	-8.51/-9.23	-8.36/-6.3	-4.78/-4.97	-2/9.46	-2.92/-9.46															
Theta(52.5)	-9.94/-6.44	-5.55/-7.59	-7.73/-5.1	-5.83/-4.02	-4.35/-4.22	-6.98/-6.21	-7.75/-8.69	-7.17/-4.45	-8.06/-9.43	-8.81/-3.5	-4.39/-3.21	-5.55/-7.66	-9.61/-4.39	-2.61/-3.28	-6.93/-7.44	-6.91/-8.2	-3.41/-7.21	-6.41/-7.33	-5.08/-7.63	-10.58/-8.64	-8.16/-5.91	-4.92/-4.66	-8.27/-7.96	-7.91/-10.02														
Theta(60)	-7.37/-6.22	-5.41/-6.88	-5.95/-6.08	-5.32/-3.61	-2.81/-3.6	-9.41/-5.75	-6.04/-7.73	-6.54/-4.78	-9.27/-8.71	-5.67/-3.28	-4.4/-4.9	-6.63/-3.77	-6.86/-4.5	-3.71/-4.07	-6.21/-6.83	-10.09/-8.09	-5.8/-7.7	-4.63/-6.25	-5.85/-6.89	-8.62/-7.34	-7.43/-6.32	-5.65/-3.97	-5.45/-7.55	-8.65/-8.1														
Theta(67.5)	-7.36/-6.74	-6.94/-6.6	-4.97/-4.81	-3.65/-3.53	-3.15/-3.51	-10.15/-7.07	-4.44/-6.97	-6.55/-5.74	-7.18/-4.04	-2.92/-2.84	-4.47/-5.14	-8.41/-6	-5.5/-3.6	-5.61/-3.78	-6.57/-6.18	-8.52/-7.67	-4.86/-7.59	-5.39/-6.87	-7.72/-10.56	-8.75/-7.59	-7.48/-7.01	-5.56/-2.2	-3.38/-3.66	-9.04/-8.64														
Theta(75)	-7.57/-8.04	-7.75/-10.24	-5.64/-6.2	-4.23/-4.46	-4.72/-3.88	-10.29/-6.82	-3.56/-6.84	-5.18/-5.1	-7.3/-3.01	-3.37/-4.15	-5.61/-8.45	-9.86/-6.4	-6.22/-3.82	-7.17/-5.72	-6.37/-6.28	-9.23/-6.29	-6.61/-6.8	-5.86/-7.59	-8.65/-9.47	-10.56/-8.13	-8.46/-7.42	-5.49/-2.74	-4.16/-8.37	-9.19/-9.39														
Theta(82.5)	-8.82/-9.34	-9.05/-10.66	-7.44/-7.49	-5.63/-6.97	-7.3/-6.09	-9.36/-8.46	-4.22/-7.61	-4.76/-5.64	-7.71/-2.89	-5.41/-7.55	-8.26/-8.76	-6.86/-6.63	-8.5/-5.26	-6.79/-5.82	-8.57/-5.91	-6.61/-8.45	-9.03/-7.91	-10.51/-9.25	-12.7/-7.1	-9.72/-11.47	-11.84/-6.7	-5.37/-6.66	-9.96/-10.26															
Theta(90)	-9.21/-11.04	-8.22/-11.7	-10.65/-8.8	-7.49/-8.6	-10.33/-7.41	-9.41/-8.87	-6.33/-8.79	-6.73/-6.97	-8.89/-4.31	-7.56/-8.76	-11.23/-11.3	-8.28/-8.37	-8.42/-8.71	-8.73/-6.97	-8.76/-5.62	-10.05/-10.75	-12.58/-10.21	-10.7/6.9	-7.05/-10.62	-12.12/-12.49	-12.81/-12.4	-8.81/-8.46	-9.96/-10.51															
Theta(97.5)	-9.26/-12.36	-7.63/-11.81	-11.1/-9.53	-9.31/-10.1	-11.86/-9.56	-10.72/-9.24	-8.99/-11.08	-7.67/-8.18	-8.27/-7.04	-12.11/-10.26	-12.41/-11.34	-8.34/-7.08	-8.36/-9.16	-8.63/-8.69	-9.17/-7.39	-10.72/-10.04	-9.72/-11.89	-11.75/-12.79	-12.09/-9.33	-11.4/-5.87	-8.49/-11.16	-11.4/-7.48	-9.18/-7.54	-10.21/-11.25														
Theta(105)	-12.34/-11.81	-8.13/-10.53	-12.28/-8.68	-10.11/-11.4	-11.51/-11.4	-11.28/-8.66	-10.88/-11.96	-11.54/-10.41	-9.66/-8.66	-12.22/-9.09	-12.57/-10.04	-9.18/-9.04	-8.39/-11.1	-7.63/-11.98	-12.14/-10.23	-11.65/-11.8	-9.07/-10.57	-9.8/-12.17	-11.29/-10	-11.7/-11.4	-11.84/-6.7	-11.84/-6.7	-10.53/-7.66	-9.79/-10.26														
Theta(112.5)	-11.36/-10.95	-9.88/-9.51	-11.04/-9.54	-10.11/-11.7	-11.18/-11.5	-10.12/-9.47	-12.46/-10.42	-10.06/-11.44	-12.64/-12.07	-10.98/-11.03	-10.12/-11.03	-8.19/-9.45	-9.75/-10.83	-8.96/-9.24	-11.11/-11.73	-10.19/-10.47	-10.81/-11.24	-9.59/-9.06	-9.18/-9.7	-12.13/-12.49	-12.81/-12.4	-8.81/-8.46	-10.84/-10.51															
Theta(120)	-10.69/-8	-12.45/-11.39	-11.1/-8.1	-11.94/-9.31	-12.53/-9.28	-8.04/-11.15	-11.83/-11.8	-10.71/-10.45	-10.05/-10.88	-10.97/-11.39	-11.91/-11.97	-13.2/-12.05	-9.13/-7.61	-7.79/-11.72	-11.11/-7.94	-10.65/-10.56	-12/-9.74	-7.9/-6.74	-9.52/-7.08	-7.95/-11.75	-12.44/-8.94	-12.11/-10.1	-10.26/-10.17	-8.85/-10.34														
Theta(127.5)	-10.21/-9.68	-9.52/-9.96	-10.58/-9.06	-12.13/-10.64	-11.82/-10.02	-9.27/-10.41	-10.85/-11.6	-11.14/-11.33	-8.65/-9.14	-10.04/-10.34	-11.96/-10.65	-9.55/-10.73	-11.19/-11.51	-8.43/-10.03	-9.37/-9.52	-9.23/-8.79	-7.84/-10.08	-9.83/-6.13	-8.42/-10.41	-11.69/-8.16	-9.51/-9.53	-7.46/-7.37	-8.71/-12.55															
Theta(135)	-8.03/-8.99	-5.32/-10.13	-11.69/-9.3	-6.88/-8.39	-12.34/-11.01	-8.65/-11.9	-11.55/-11.77	-8.43/-10.46	-10.19/-11.03	-10.35/-10.9	-10.03/-8.62	-10.82/-10.64	-7.94/-12.33	-13.01/-9.32	-11.63/-7.15	-7.52/-7.86	-7.35/-8.66	-7.21/-10.77	-8.73/-6.14	-7.34/-7.67	-9.16/-7.77	-8.99/-9.17	-9.53/-7.03	-8.35/-8.47														
Theta(142.5)	-7.71/-7.2	-9.51/-7.66	-11.01/-9.4	-8.91/-8.48	-12.11/-9.1	-8.06/-7.16	-7.98/-11.16	-11.23/-11.45	-12.18/-9.06	-8.32/-9.78	-7.36/-8.52	-11.03/-8.41	-10.36/-11.35	-9.62/-8.51	-9.4/-7.7	-9.3/-6.78	-8.95/-8.03	-8.24/-10.58	-8.49/-9.32	-9.66/-8.55	-8.29/-9.77	-8.21/-10.76	-10.6/-6.72	-7.27/-5.52														
Theta(150)	-8.92/-10.8	-9.37/-8.65	-10.11/-9.03	-9.03/-8.44	-8.29/-10.2	-7.38/-7	-8.58/-8.76	-8.67/-10.27	-10.11/-9.78	-6.67/-3.36	-10.06/-7.81	-7.58/-8.62	-9.57/-8.48	-7.42/-7.48	-8.32/-8.8	-11.33/-10.94	-10.5/-8.26	-10.75/-9.44	-7.55/-15.4	-7.13/-9.4	-7.8/-8.2	-8.97/-7.0	-5.19/-5.08	-7.5/-6.4														
Theta(157.5)	-7.56/-9.2	-9.17/-6.5	-8.11/-11.43	-10.99/-4.42	-2.99/-6.1	-8.21/-5.7	-8.01/-9.67	-7.71/-7.41	-5.11/-7.68	-9.39/-7.8	-6.31/-8.73	-11.55/-11.7	-11.02/-11.21	-10.14/-9.7	-10.63/-9.45	-11.18/-11.16	-9.62/-9.5	-9.72/-9.92	-9.49/-10.11	-8.06/-7.55	-9.53/-9.07	-8.56/-6.77	-5.8/-7.66	-10.37/-8.44														
Theta(165)	-8.41/-9.09	-9.92/-9.92	-10.86/-12.14	-10.35/-8.59	-8.86/-10.66	-1.03/-7.85	-7.65/-9.24	-4.22/-6.71	-5.65/-8.68	-10.59/-8.52	-7.78/-8.2	-8.54/-8.6	-9.71/-9.55	-8.93/-8.53	-9.22/-9.19	-8.59/-8.97	-10.31/-10.97	-9.26/-7.5	-7.61/-8.76	-8.51/-7.4	-7.65/-9.13	-9.96/-9.6	-9.88/-10.14	-9.47/-7.7														
Theta(172.5)	-8.42/-8.64	-10.13/-11.44	-12.06/-11.61	-9.34/-7.28	-6.65/-6.61	-7.32/-7.05	-6.38/-6.96	-7.19/-8.49	-9.32/-9.77	-9.93/-9.98	-10.04/-8.78	-8.64/-8.94	-8.45/-8.27	-7.42/-7.62	-6.61/-6.53	-7.87/-8.64	-8.43/-7.87	-7.23/-6.77	-8.9/-9.42	-9.89/-9.54	-10.19/-10.76	-11.1/-10.3	-9.86/-10.37	-10.58/-9.9														
Theta(180)	-9.69/-9.53	-8.62/-8.45	-7.85/-7.48	-6.76/-7.4	-6.54/-6.33	-6.23/-6.44	-6.83/-6.49	-6.34/-6.5	-6.9/-7.44	-7.88/-7.78	-6.82/-6.24	-6.86/-7.53	-8.2/-8.93	-8.52/-10.04	-11.48/-11.59	-10.71/-8.42	-7.68/-7.03	-5.99/-5.74	-6.07/-6.73	-6.53/-7.27	-7.91/-8.36	-8.31/-9.32	-9.81/-10.99	-11.69/-10.54														
Freq(Hz)	6.175GPol.	Theta1	Theta2	Theta3	Theta4	Theta5	Theta6	Theta7	Theta8	Theta9	Theta10	Theta11	Theta12	Theta13	Theta14	Theta15	Theta16	Theta17	Theta18	Theta19	Theta20	Theta21	Theta22	Theta23	Theta24	Theta25	Theta26	Theta27	Theta28	Theta29	Theta30	Theta31	Theta32	Theta33	Theta34	Theta35		
DG(dB)	Phi(7.5)	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)	Phi(360)	Phi(375)	Phi(390)	Phi(405)	Phi(420)	Phi(435)	Phi(450)	Phi(465)	Phi(480)	Phi(495)	Phi(510)			
Theta(7.5)	6.08/-5.6																																					



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	4.08-5.52	-5.31-4.21	-4.65-5.74	-7.23-6.48	-5.43-4.15	-3.51-3.79	-5.39-6.68	-6.61-5.91	-3.99-2.97	-3.09-4.22	-5.58-5.12	-3.96-3.38	-4.08-4.84	-4.61-4.19	-4.28-5.01	-5.89-7.89	-9.54-8.38	-5.65-3.7	-3.13-4.52	-7.02-8.13	-5.75-4.36	-3.51-3.49	-4.51	-4.95-3.7	
Theta(30°)	-3.86-4.3	-5.33-4.78	-6.05-7.74	-3.39-1.9	-4.15-5.82	-4.89-5.68	-7.56-7.41	-5.92-5.99	-5.2-3.67	-4.79-6.38	-5.88-6.48	-5.72-5.81	-5.41-4.84	-5.31-7.66	-8.16-7	-6.89-9.23	-10.71-8.85	-7.82-5.14	-4.39-5.42	-6.45-6.48	-5.69-6.32	-4.73-2.39	-3.52-5.85	-5.76-6.27	
Theta(37.5°)	-5.27-6.6	-5.25-5.44	-6.8-8.54	-6.21-4.25	-3.64-2.88	-3.77-7.34	-8.72-8.7	-4.61-6.84	-4.87-2.78	-6.3-7.96	-7.48-5.42	-5.99-5.2	-4.31-4.76	-5.09-7.15	-8.35-6.83	-10.38-11.33	-12.31-7.34	-6.76-6.7	-6.58-9.66	-10.37-8.39	-9.53-9.82	-7.62-3.89	-5.49-7.85	-6.63-5.24	
Theta(45°)	-8.27-8.49	-6.03-6.52	-5.58-6.77	-8.46-7.82	-3.78-3.73	-4.95-7.77	-10.9-8.78	-6.03-6.43	-5.6-3.97	-5.73-4.16	-5.21-6.43	-3.71-6.42	-5.75-4.47	-6.96-6.77	-6.49-7.39	-7.98-7.28	-9.55-4.99	-4.65-7.94	-7.63-6.47	-9.89-10.08	-11.46-10.1	-8.41-8.36	-6.25-3.92	-6.68-10.44	
Theta(52.5°)	-10.25-8.74	-5.92-6.33	-6.25-5.96	-7.62-4.82	-3.01-4.95	-6.96-7.76	-7.93-8.77	-7.52-6.06	-7.48-8.42	-3.75-5.77	-4.72-8.3	-8.91-5.58	-9.17-10.89	-9.39-7.88	-9.07-7.97	-9.78-4.76	-2.71-7.22	-8.85-6.42	-8.75-3.39	-8.97-6.31	-5.28-5.64	-7.14-6.5	-7.47-6.5	-7.37-11.59	
Theta(60°)	-8.54-8.23	-6.92-6.68	-7.36-5.1	-6.68-3.59	-2.66-4.83	-10.41-7.51	-6.41-8.59	-6.51-6.9	-8.15-3.79	-3.15-4.39	-6.85-9.44	-8.43-11.21	-7.83-6.08	-5.05-7.92	-10.1-8.42	-8.65-7.88	-4.74-11.6	-10.2-8.95	-8.54-8.68	-7.54-4.74	-4.85-5.67	-6.76-4.5	-5.49-9.4		
Theta(67.5°)	-5.76-9.37	-7.85-9.37	-6.5-4.43	-6.13-3.08	-3.44-7.09	-10.72-8.91	-7.76-10.15	-5.28-7.12	-7.14-3.36	-3.82-6.73	-7.43-11.06	-9.01-9.56	-7.28-3.77	-5.45-7.22	-8.74-9.88	-8.91-5.9	-8.48-7.35	-7.62-6.8	-10.14-8.84	-8.01-10.97	-6.39-6.89	-6.07-5.17	-7.71-4.88	-5.55-5.92	
Theta(75°)	-8.14-10.33	-7.97-10.69	-8.38-5	-7.57-4.06	-4.21-8.2	-10.29-8.5	-7.71-10.84	-4.15-6.53	-7.3-6.18	-5.2-7.71	-10.85-11.85	-7.6-7.87	-6.72-2.43	-4.76-6.47	-7.76-10.67	-8.61-4.96	-7.18-7.93	-7.54-5.79	-7.01-7.59	-8.11-12.1	-7.75-8.74	-8.33-6.27	-8.3-8.54	-7.51-5.13	
Theta(82.5°)	-9.65-9.02	-9.45-10.31	-8.38-5.17	-9.22-6.95	-6.19-7.9	-9.05-8.27	-9.32-10.39	-5.46-6.66	-8.87-7.64	-7.34-11.32	-9.41-10.84	-9.16-8.8	-7.83-5.19	-5.14-7.62	-7.99-11.71	-8.71-5.13	-6.46-10.29	-7.83-6.01	-6.98-7.49	-8.5-8.92	-7.02-9.72	-8-6.35	-9.23-9.61	-8.55-5.51	
Theta(90°)	-9.91-6.58	-8.89-11.15	-8.99-6.25	-10.4-9.48	-7.18-7.99	-7.61-8.93	-9.89-10.19	-8.71-7.27	-9.37-9.44	-9.72-11.65	-9.51-7.98	-10.47-7.1	-7.09-9.62	-6.04-8.35	-10.25-12.85	-10.2-6.98	-7.94-8.05	-9.5-5.61	-8.14-7.38	-7.31-8.72	-7.24-9.43	-9.34-6.35	-7.55-9.87	-10.09-6.61	
Theta(97.5°)	-11.16-7.58	-12.35-11.5	-10.31-7.14	-9-10.57	-7.89-8.05	-9.36-10.08	-10.01-11.66	-9.93-8.65	-10.2-10.91	-9.34-11.15	-11.25-8.66	-9.88-7.68	-8.64-10.14	-6.88-10.66	-10.86-12.83	-11.34-9.2	-9.3-10.3	-9.66-6.83	-11.14-7.33	-10.61-9.08	-7.99-10.29	-11.23-8.08	-6.62-10.77	-9.13-8.1	
Theta(105°)	-10.88-9.87	-11.74-11.86	-10.49-6.74	-9.15-10.57	-7.89-8.39	-7.54-10.76	-9.38-11.5	-12.85-10.41	-10.24-10.12	-10.13-10.29	-12.83-9.49	-9.08-9.29	-9.7-8.26	-9.52-10.88	-11.03-12.95	-9.93-11.02	-12.39-9.87	-10.35-7.55	-11.31-9.35	-12.4-10.84	-10.24-9.29	-9.46-8.88	-7.97-9.23	-11.24-9.16	
Theta(112.5°)	-12.11-11.07	-9.68-12.02	-11.6-7.63	-10.3-9.31	-7.77-8.09	-10.46-11.47	-9.93-10.52	-9.55-11.08	-9.88-8.69	-8.85-10.2	-11.52-10.02	-8.69-9.14	-11.04-7.6	-8.07-10.95	-11.35-10.35	-9.3-11.52	-10.16-9.81	-11.13-8.5	-10.64-10.29	-11.42-8.87	-10.93-11.79	-10.44-8.58	-9.64-10.04	-11.3-9.33	
Theta(120°)	-10.65-9.05	-8.89-11.59	-10.56-10.69	-11.4-7.55	-6.81-9.29	-7.24-9.76	-11.96-9.94	-9.4-12.14	-10.84-9.34	-8.81-10.11	-10.67-11.35	-8.59-9.85	-11.02-8.94	-6.63-10.18	-11.87-10.09	-7.52-9.9	-7.82-10.13	-5.66-8.74	-10.37-7.79	-8.27-10.88	-11.29-10.6	-10.94-9	-8.3-9.55	-11.16-8.52	
Theta(127.5°)	-8.44-10.78	-10.33-11.78	-8.45-9.24	-11.07-8.32	-6.82-7.56	-7.67-8.98	-10.44-8.13	-10.85-10.79	-11.11-11.05	-6.58-7.69	-9.22-10.48	-7.61-11.66	-8.17-9.08	-7.07-9.68	-11.73-7.61	-8.86-9.13	-9.99-7.16	-4.29-12.59	-10.85-7.64	-8.97-9.97	-10.08-10.46	-8.87-7.05	-6.83-9.28	-10.27-10.62	
Theta(135°)	-7.5-7.89	-7.18-10.62	-9.77-9.87	-7.47-9.67	-11.03-9.29	-7.34-5.68	-6.47-8.84	-9.21-10.15	-10.2-12.44	-10.87-9.79	-8.15-5.71	-7.36-10.25	-6.62-9.34	-8.65-10.97	-8.3-6.38	-6.36-7.57	-6.86-5.55	-5.84-6.66	-9.36-6.14	-6.57-7.9	-6.51-10.66	-9.52-5.36	-4.86-8.56	-10.02-7.72	
Theta(142.5°)	-8.2-9.69	-8.65-9.41	-8.57-4.42	-10.17-9.72	-11.17-9.95	-8.66-9.41	-11.69-12.73	-11.55-10.32	-10.67-9.21	-8.65-10	-7.77-8.36	-9.35-6.92	-7.86-10.43	-9.98-11.1	-8.82-7.71	-7.4-8.53	-10.14-9.27	-9.91-12.47	-7.6-6.66	-8.38-10.23	-11.1-8.82	-5.54-5.63	-9.56-9.35	-7.83-8.18	
Theta(150°)	-9.47-10.83	-9.19-9.43	-5.71-4.27	-7.28-9.58	-9.25-7.9	-6.41-6.33	-7.77-11.07	-7.77-6.69	-8.86-7.44	-8.29-9.9	-7.11-6.26	-7.57-6.33	-5.75-9.99	-8.77-9.56	-8.85-9.88	-11.46-9.61	-7.65-9.35	-12.53-10.31	-8.88-7.45	-11.17-7.33	-9.43-10.37	-11.15-10.89	-10.04-8.47		
Theta(157.5°)	-9.79-12.22	-10.62-8.99	-8.29-7.75	-5.57-3.22	-4.51-5.89	-5.16-4.32	-6-9.2	-8.93-8.58	-9.12-12.17	-8.11-7.63	-9.64-7.73	-7.5-8.14	-11.01-8.06	-6.09-8.42	-8.82-7.63	-9.03-9.23	-7.48-9.7	-12.59-8.18	-10.15-11.99	-10.26-8.02	-7.44-7.31	-7.48-8.88	-8.78-9.93	-11.11-9.36	
Theta(165°)	-8.91-10.19	-9.43-9.73	-11.17-10.58	-7.94-6.14	-6.89-10.1	-1.58-9.48	-10.23-12.23	-9.61-8.41	-5.83-6.55	-8.25-8.92	-8.66-6.65	-6.73-7.28	-8.28-6.77	-6.51-6.27	-7.07-7.09	-5.06-4.13	-5.28-6.66	-8.24-9.38	-11.25-10.18	-9.12-9.51	-9.64-8.1	-8.3-8.89	-9.1-9.48	-9.8-9.25	
Theta(172.5°)	-9.1-8.74	-9.43-10.65	-11.03-10.65	-8.66-8.24	-8.19-9.53	-10.31-11.04	-11.25-11.09	-10.47-8.7	-7.5-7.06	-7.02-7.53	-8.27-9.6	-8.74-8.51	-8.63-7.97	-7.7-7.49	-7.49-7.85	-7.97-9.09	-8.62-7.85	-8.82-8.53	-8.82-9.64	-9.48-8.8	-7.68-6.69	-6.71-7.24	-7.41-8.76	-9.71-9.43	
Theta(180°)	-9.48-9.21	-8.71-8.52	-9.31-8.79	-10.03-10.76	-10.95-11.63	-12.18-11.6	-10.67-11.03	-10.77-11.02	-11.11-10.73	-10.93-10.53	-10.77-11.43	-11.28-10.59	-10.71-10.92	-10.71-10.67	-10.71-10.76	-10.71-10.91	-9.35-9.37	-10.71-11.1	-10.83-10.61	-11.71-12.42	-11.36-10.74	-10.37-9.97	-8.65-9.15	-9.77-9.54	
Freq(Hz)	6.995GPol.	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi	Theta	Phi
DG(dB)	Phi(7°)(7.5°)	Phi(15°)(22.5°)	Phi(30°)(37.5°)	Phi(45°)(52.5°)	Phi(60°)(67.5°)	Phi(75°)(82.5°)	Phi(90°)(97.5°)	Phi(105°)(112.5°)	Phi(120°)(127.5°)	Phi(135°)(142.5°)	Phi(150°)(157.5°)	Phi(165°)(172.5°)	Phi(180°)(187.5°)	Phi(195°)(202.5°)	Phi(210°)(217.5°)	Phi(225°)(232.5°)	Phi(240°)(247.5°)	Phi(255°)(262.5°)	Phi(270°)(277.5°)	Phi(285°)(292.5°)	Phi(300°)(307.5°)	Phi(315°)(322.5°)	Phi(330°)(337.5°)	Phi(345°)(352.5°)	
Theta(0°)	-5.38-5.36	-5.23-4.77	-4.46-4.21	-3.93-3.58	-3.72-3.91	-3.84-3.17	-2.65-2.87	-3.22-3.02	-2.27-2.02	-2.23-2.45	-2.91-3.33	-3.95-4.55	-4.62-5.25	-5.55-5.23	-5.36-5.33	-5.14-4.35	-3.94-3.29	-2.72-2.65	-2.55-2.51	-2.36-2.04	-2.25-2.82	-3.48-3.71	-4.53-5.09	-5.34-5.3	
Theta(7.5°)	-5.64-5.41	-4.35-4.04	-4.33-4.45	-4.49-3.47	-4.2-3.94	-3.81-3.25	-3.08-3.17	-3.44-3.46	-3.74-4.44	-5.49-6.66	-7.28-7.61	-7.64-6.74	-6.15-5.06	-3.81-3.06	-3.09	-3.68-4.34	-4.69-4.84	-5.02-6.44	-3.97-3.72	-3.73-4	-4.04-3.47	-5.26-5.83	-6.05-6.68		
Theta(15°)	-2.35-2.32	-2.42-2.46	-2.1-86	-2.39-2.57	-2.64-2.51	-2.61-2.77	-3.24-3.75	-4.71-5.29	-5.57-5.94	-6.29-6.42	-4.99-4.84	-4.74-4.49	-4.63-4.06	-3.45-3.14	-1.74-1.92	-1.91-1.65	-1.53-1.69	-1.72-1.78	-4.71-4.77	-8-19.7	-8.94-9.32	-3.23-2.94	-2.79-2.91		
Theta(22.5°)	-4.1-3.45	-4.46-5.51	-3.75-2.4	-2.04-0.79	-0.52-0.33	-0.13-0.01	-0.42-1.87	-4.03-5.51	-5.75-5.67	-5.83-5.97	-6.58-6.76	-7.31-6.96	-5.94-6.03	-6.43-7.26	-6.54-8.8	-3.23-2	-0.72-0.13	0.69-0.32	-0.17-1.25	-1.63-1.21	-0.66-0.52	-0.88-1.36	-1.44-1.6	-2.57-3.78	
Theta(30°)	-2.34-2.28	-1.91-1.99	-1.49-0.79	0.53-2.66	3.59-2.76	0.75-0.02	0.08-0.4	-1.03-0.28	0.35-0.65	-2.54-3.87	-4.98-0.43	-1.44-0.9	-0.70-0.74	-2.45-5.1	-4.65-3.29	-2.77-2.19	-1.64-1.44	-0.78-0.55	0.06-1.1	2.15-2.9	3.79-4.36	3.38-0.13	-0.93-0.26	-0.02-0.85	
Theta(37.5°)	2.84-1.85	1.52-6.1	3.65-2.78	2.19-3.18	3.93-2.99	1.09-0.42	-1.04-1.33	-1.47-0.65	0.64-1.4	1.55-1.23	1.53-1.52	1.90-96	0.32-0.86	-0.19-2.33	3.91-2.99	0.72-0.2	-0.05-0.17	0.53-0.88	2.55-2.28	4.77-0.1	3.59-6.69	4.66-4.58	4.66-4.68	4.64-9.38	
Theta(45°)	4.32-3.41	1.86-2.36	4.19-3.57	3.36-3.47	3.52-2.93	2.59-1.18	0.47-1.44	1.32-0.51	0.47-0.99	1.54-2.97	4.28-2.96	3.02-2.13	2.2-0.8	1.37-2.18	4.95-2.27	3.08-2.26	4.53-4.28	3.15-3.07	4.99-8.84	6.69-5.26	5.27-5.6	5.08-8.99	5.66-5.9	5.64-7.1	
Theta(52.5°)	5.88-4.15	1.97-2.18	5.56-6.61	3.12-0.43	4.23-4.28	4.63-6.65	1.74-3.29	5.21-5.43	4.82-7.47	4.48-4.32	5.26-4.48	3.15-2.88	2.82-2.14	1.65-2.76	5.25-6.3	4.95-5.42	5.89-5.36	4.33-9.38	5.66-7.01	7.08-6.33	6.66-0.7	5.52-5.1	5.38-6.13	6.92-6.99	
Theta(60°)	7.41-6.2	4.74-4.02	6.77-6.39	5.35-6.36	5.67-4.89	5.54-8.63	3.83-4.36	5.91-7.01	6.86-6.77																



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	-12.64-18.62	-18.47-18.31	-18.99-18.63	-18.51-18.23	-14.11-10.01	-9.84-8.25	-7.37-7.5	-9.93-12.73	-12.51-13.28	-16.42-19.05	-19.27-15.8	-10.71-5.1	-7.67-9.09	-10.65-11.43	-10.12-16.55	-10.81-14.1	-16.76-18.08	-17.76-18.63	-17.78-18.62	-18.56-11.71	-7.22-18.8	-6.58-9.06	-12.81-13.21	-10.86-10.28
Theta(30°)	-14.53-13.03	-11.88-12.02	-14.95-18.46	-13.66-13.09	-17.41-16.96	-10.55-6.62	-7.05-11.1	-13.23-10.3	-5.95-3.94	-5.74-12.06	-18.79-16.46	-12.69-8.34	-8.99-11.09	-12.91-18.29	-17.98-13.26	-15.79-17.66	-17.08-13.96	-12.16-14.52	-17.74-15.85	-10.76-7.45	-6.66-8.78	-12.79-10.62	-14.05-18.48	-13.76-12.54
Theta(45°)	-12.07-11.11	-9.41-10.79	-12.66-16.4	-11.36-15.09	-9.31-7.54	-9.62-17.48	-18.26-18.03	-9.03-9.01	-16.65-11.21	-12.69-13.78	-13.01-14.14	-19.61-11.39	-8.52-8.86	-12.45-14.38	-11.32-18.62	-9.61-14.81	-14.61-13.91	-15.79-15.59	-12.57-11.56	-13.17-18.33	-18.81-12	-18.59-18.31	-19.31-10.22	-13.71-18.07
Theta(60°)	-11.78-11.91	-12.63-13.36	-11.54-18.06	-15.13-11.17	-8.58-7.17	-16.98-16.42	-18.42-18.03	-13.99-11.48	-8.25-13.47	-6.47-13.74	-16.98-17.45	-17.61-14.7	-11.08-9.61	-15.61-17.32	-14.38-18.18	-17.12-18.6	-17.02-11.04	-16.11-16.07	-16.61-10.2	-14.45-17.87	-9.57-6.14	-5.95-11.07	-14.27-13.64	-12.42-19.13
Theta(75°)	-12.21-13.13	-18.37-13.12	-10.98-18.23	-19.29-9.6	-10.87-11.13	-18.91-10.15	-13.17-17.03	-10.69-8.88	-16.21-9.87	-5.67-7.68	-8.83-17.92	-16.67-18.19	-9.86-8.17	-15.42-15.81	-16.31-17.78	-13.02-19.03	-13.39-9.77	-17.51-19.35	-18.11-9.62	-12.38-14.7	-9.12-6.67	-11.88-17.82	-10.84-16.5	
Theta(90°)	-11.07-17.26	-17.61-15.1	-9.82-18.98	-18.02-9.72	-12.39-15.84	-17.69-17.15	-14.82-14.05	-7.77-8.43	-14.46-7	-4.08-10.86	-8.61-17.7	-14.76-18.67	-12.22-8.08	-16.39-18.67	-11.61-15.87	-15.05-17.49	-9.24-9.42	-16.52-18.74	-18.31-10.27	-13.64-16.19	-8.17-7.71	-8.27-13.68	-13.42-18.67	-15.47-8.82
Theta(105°)	-12.21-17.14	-18.46-16.25	-11.66-15.76	-16.78-12.02	-16.76-18.53	-18.51-18.62	-14.94-19.05	-8.58-5.12	-10.07-11.63	-7.04-9.7	-13.22-18.12	-9.78-18.55	-12.87-8.45	-10.57-18.43	-12.61-19.07	-18.81-14.02	-7.04-10.35	-12.51-17.32	-12.63-11.17	-18.66-18.27	-11.23-11.74	-14.02-16.49	-18.32-18.31	-16.16-17.96
Theta(120°)	-13.99-15.45	-18.25-17.65	-16.51-10.65	-16.65-16.79	-18.43-15.33	-18.88-17.43	-13.41-18.11	-10.35-4.92	-10.79-13.03	-12.47-16.92	-14.72-14.65	-11.91-14.73	-15.84-10.89	-10.51-17.42	-13.02-17.14	-17.29-12.86	-7.98-17.51	-11.25-17.75	-12.89-15.22	-19.21-15.19	-12.59-13.98	-15.93-15.34	-18.85-18.76	-13.59-6.37
Theta(135°)	-17.61-15.03	-18.14-19.14	-17.87-9.23	-16.65-18.66	-18.49-14.54	-16.29-18.82	-12.39-18.69	-17.8-6.4	-9.94-15.34	-18.48-19.29	-17.49-13.29	-13.41-12.28	-16.06-17.21	-6.94-18.97	-19.14-18.87	-18.47-14.35	-10.86-13.63	-17.31-16.23	-15.72-16.29	-15.41-17.8	-14.19-11.86	-15.31-12.65	-18.51-18.22	-15.09-6.57
Theta(150°)	-18.01-15.32	-18.87-17.13	-17.32-9.15	-17.71-17.94	-13.13-14.11	-14.72-17.66	-13.02-17.05	-17.11-9.6	-11.86-10.2	-14.14-15.74	-17.11-13.55	-16.65-12.59	-18.05-16.63	-7.33-19.32	-18.02-18.98	-18.11-15.78	-13.21-14.6	-15.01-11.38	-17.65-16.48	-17.41-15.78	-14.09-12.98	-14.53-12.22	-17.09-18.32	-14.14-17.77
Theta(165°)	-17.35-17.91	-17.69-17.41	-18.31-9.5	-16.88-18.22	-13.37-12.57	-12.56-17.97	-14.21-15.04	-18.82-14.49	-12.02-11.26	-11.95-14.5	-18.91-18.71	-19.31-17.5	-10.21-19.07	-15.44-18.48	-18.14-19.27	-11.86-19.31	-18.14-19.27	-14.92-8.93	-17.61-16.28	-17.86-17.88	-17.71-13.46	-12.67-10	-16.08-18.61	-14.32-9.04
Theta(180°)	-18.52-18.97	-16.88-18.23	-18.96-11.91	-18.64-17.49	-12.42-11.07	-14.24-17.92	-13.81-14.54	-18.51-15.36	-10.36-11.19	-12.01-17.7	-16.14-18.2	-18.81-15.71	-18.91-10.83	-14.77-18.78	-18.23-18.29	-13.47-18.04	-14.35-16.07	-19.02-10.31	-18.88-15.3	-14.31-17	-16.61-19.14	-13.99-10.32	-15.62-18.05	-17.14-11.98
Theta(202.5°)	-18.88-18.51	-16.51-17.42	-18.79-15.14	-18.49-17.87	-14.55-15.61	-8.49-14.83	-16.16-19.84	-15.05-18.44	-16.35-14.73	-13.76-11.57	-13.22-18.74	-17.15-18.56	-10.56-17.92	-18.41-15.85	-12.54-18.03	-10.91-16.67	-11.78-10.81	-18.28-9.86	-14.28-18.27	-18.51-18.78	-13.11-10.51	-16.28-17.91	-17.61-17.71	-15.48-19.01
Theta(225°)	-18.47-19.07	-18.73-19.08	-17.81-19.59	-18.81-18.36	-17.61-18.97	-11.11-11.71	-16.35-11.79	-19.63-15.25	-17.82-15.67	-6.85-8.88	-10.86-18.01	-9.06-16.04	-13.47-11.55	-12.31-16.89	-15.91-12.75	-15.52-10.62	-13.01-13.55	-13.09-11.46	-13.19-11.46	-18.01-17.83	-14.21-14.24	-11.54-19.17	-15.24-19.98	-19.23-18.98
Theta(247.5°)	-18.87-17.77	-18.69-19.12	-17.97-17.1	-15.11-12.28	-18.53-15.63	-11.96-9.82	-15.37-9.58	-10.63-15.3	-17.34-17.53	-13.07-16.62	-9.98-9.45	-10.25-13.44	-11.28-16.7	-15.91-18.17	-15.64-9.6	-18.04-6.5	-9.11-10.03	-19.09-10.14	-16.89-8.87	-8.83-14.24	-17.58-17.32	-12.68-7.88	-8.33-18.75	-13.11-14.39
Theta(270°)	-14.38-18.63	-18.35-18.48	-18.69-13.05	-18.94-17.42	-17.32-14.35	-15.89-14.86	-16.82-17.81	-17.54-15.13	-13.08-11.66	-15.29-14.16	-9.81-16.16	-17.38-15.27	-11.42-13.96	-18.06-14.09	-19.41-11.63	-17.14-16.32	-15.94-12.49	-16.14-10.08	-12.17-8.95	-10.75-18.75	-17.86-15.51	-9.15-6.51	-15.13-10.05	-13.06-18.38
Theta(300°)	-14.41-18.73	-16.44-17.03	-18.73-12.87	-17.38-14.98	-17.38-16.18	-12.86-13.93	-9.48-10.12	-10.43-11.62	-12.71-12.88	-12.52-13.05	-17.99-10.74	-7.21-9.58	-14.56-11.75	-14.19-14.35	-13.42-12.11	-11.21-15.88	-13.54-18.35	-17.72-11.64	-11.21-15.88	-14.55-17.79	-15.77-11.05	-18.08-18.47	-15.07-16.09	-17.31-17.73
Theta(322.5°)	-18.53-18.04	-19.07-18.01	-17.96-19.26	-14.29-14.08	-18.97-14.37	-10.21-10.36	-12.14-16.25	-14.64-17.15	-18.07-17.02	-12.75-13.98	-13.38-9.19	-10.82-11.95	-18.27-11.21	-11.07-15.25	-13.67-18.87	-17.04-18.23	-13.68-19.33	-18.97-15.74	-14.66-17.95	-18.69-15.48	-13.61-13.05	-13.18-14.4	-16.66-18.15	-17.66-18.09
Theta(345°)	-18.61-16.9	-16.25-18.48	-19.21-17.24	-13.16-11.7	-11.83-14.17	-18.61-18.85	-18.82-18.33	-17.78-17.63	-15.65-13.68	-14.38-18.31	-17.47-14.67	-15.38-14.84	-13.99-13.13	-16.02-18.89	-17.88-16.23	-12.28-10.58	-12.87-13.82	-18.39-17.51	-17.51-15.89	-13.98-11.07	-10.71-12.25	-15.26-16.55	-18.51-18.31	
Theta(360°)	-17.31-14.48	-13.24-16.16	-19.36-18.65	-17.98-18.74	-17.87-17.58	-19.37-19.27	-18.58-18.09	-19.01-16.22	-14.96-15.5	-15.81-16.6	-18.39-18.51	-18.91-17.63	-17.87-18.52	-17.39-19.6	-17.23-15.14	-14.17-16.78	-12.65-10.8	-12.59-12.14	-10.91-11.06	-11.06-10.59	-10.04-9.9	-10.71-12.88	-14.88-17.08	-17.97-19.37
Phi(75°)	-14.31-15.33	-18.05-17.19	-17.97-16.17	-18.59-18.65	-17.46-18.53	-19.23-16.26	-14.81-14.82	-15.02-14.72	-14.12-13.63	-14.13-15.92	-18.08-18.98	-18.66-16.68	-16.77-18.36	-17.58-18.04	-18.44-18.33	-17.17-18.05	-18.91-18.14	-18.47-19.07	-17.77-18.42	-18.19-17.54	-18.22-18.94	-17.46-18.08	-15.63-15.18	-15.05-13.95
Phi(90°)	6.995GPol	ThetaAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	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°)	Phi(360°)	Phi(375°)	Phi(390°)	Phi(405°)	Phi(420°)
Theta(0°)	-8.3-8.07	-8.31-8.13	-8.12-9.14	-9.31-9.04	-9.61-11.98	-14.71-12.59	-11.07-12.3	-13.83-12.34	-9.95-9.17	-9.12-8.73	-7.97-7.71	-7.92-7.91	-7.94-8.45	-8.21-7.27	-7.72-8.26	-8.81-8.58	-9.88-9.5	-9.62-9.48	-9.63-10.31	-9.73-9.11	-9.11-9.68	-9.53-9.18	-9.45-8.88	-8.37-8.17
Theta(15°)	-7.11-6.66	-6.21-6.5	-6.65-7.03	-6.41-6.36	-7.01-8.02	-9.09-8.65	-8.84-9.5	-9.78-9.11	-9.05-9.64	-10.72-11.67	-11.87-11.31	-14.04-12.72	-12.15-11.39	-9.91-8.85	-8.88-10.5	-10.61-10.12	-12.07-10.52	-16.25-15.93	-16.23-15.97	-14.09-13.54	-13.52-13.29	-12.22-13.11	-11.23-9.52	-8.56-7.97
Theta(30°)	-4.84-8.85	-8.21-6.57	-4.67-3.6	-5.05-3.07	-2.12-4.7	-3.63-5.02	-5.94-7.58	-9.43-10.6	-10.26-10.46	-11.35-10.35	-9.64-11.75	-15.16-14.19	-14.92-12.55	-12.16-14.35	-18.29-18.14	-14.61-14.31	-14.63-17.13	-16.01-19.23	-18.91-18.37	-16.15-18.2	-18.04-14.62	-11.29-9.26	-7.23-7.27	-7.57-9.14
Theta(45°)	-14.26-11.18	-8.95-7.37	-5.87-4.38	-3.18-2.08	-2.08-2.32	-2.17-2.1	-3.06-5.38	-7.69-9.43	-11.59-17.36	-19.18-18.23	-18.04-17.81	-18.03-14.31	-11.08-10.56	-10.43-10.17	-10.23-10.17	-12.17-14.95	-16.63-13.08	-11.46-11.79	-10.03-8.65	-7.08-5.47	-4.12-3.34	-3.67-5.96	-8.42-11.21	-17.85-19.12
Theta(60°)	-10.74-10.12	-10.54-11.13	-9.16-7.63	-6.49-5.82	-4.56-3.46	-5.11-4.84	-5.66-6.35	-8.71-5.17	-4.03-6.09	-9.31-11.52	-14.45-16.71	-9.34-8.76	-6.31-7.45	-10.49-11.06	-16.52-16.92	-12.24-8.82	-7.39-7.21	-6.35-4.51	-3.1-2.1	-1.26-1	-1.69-1.54	-7.48-6.49	-7.43-9.46	
Theta(75°)	-3.49-7.39	-10.27-14.3	-10.27-8.13	-9.39-9.55	-4.51-3.4	-5.06-5.72	-5.35-6.72	-9.91-7.91	-5.54-5.5	-6.07-6.17	-6.36-8.93	-5.91-5.47	-5.84-16.53	-13.27-6.82	-2.21-2.03	-6.85-10.79	-8.61-7.97	-5.61-3.98	-1.05-0.47	0.33-0.58	-2.72-5.58	-7.49-6.09	-2.39-1.15	0.68-1.14
Theta(90°)	1.22-0.61	-8.08-19.42	-15.79-16.71	-9.66-14.84	-9.23-4.73	-3.04-2.22	-0.76-0.24	-1.91-3.84	-5.05-6.54	-8.43-4.16	-1.56-1.48	-1.85-1.03	-1.82-9.32	-6.62-6.93	-0.87-0.84	-3.02-5.42	-6.01-8.92	-9.36-5	-1.48-2.03	0.32-0.65	-0.81-1.9	-3.37-1.66	-0.22-0.13	1.17-0.8
Theta(105°)	5.21-3.7	-1.37-3.5	-1.95-7.2	-18.17-10.98	-6.9-4.63	-1.67-0.34	0.21-0.42	-0.46-1.03	0.97-0.34	-1.94-0.96	1.55-1.66	0.47-1.35	-2.43-4.87	-18.96-13.24	-2.34-1.14	-2.83-3.78	-5.79-13.85</							



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	15.45	15.86	16.27	16.68	17.09	17.50	17.91	18.32	18.73	19.14	19.55	19.96	20.37	20.78	21.19	21.60	22.01	22.42	22.83	23.24	23.65	24.06	24.47	24.88	25.29	25.70	26.11	26.52	26.93	27.34	27.75	28.16	28.57	28.98	29.39	29.80	30.21	30.62	31.03	31.44	31.85	32.26	32.67	33.08	33.49	33.90	34.31	34.72	35.13	35.54	35.95	36.36	36.77	37.18	37.59	38.00	38.41	38.82	39.23	39.64	40.05	40.46	40.87	41.28	41.69	42.10	42.51	42.92	43.33	43.74	44.15	44.56	44.97	45.38	45.79	46.20	46.61	47.02	47.43	47.84	48.25	48.66	49.07	49.48	49.89	50.30	50.71	51.12	51.53	51.94	52.35	52.76	53.17	53.58	53.99	54.40	54.81	55.22	55.63	56.04	56.45	56.86	57.27	57.68	58.09	58.50	58.91	59.32	59.73	60.14	60.55	60.96	61.37	61.78	62.19	62.60	63.01	63.42	63.83	64.24	64.65	65.06	65.47	65.88	66.29	66.70	67.11	67.52	67.93	68.34	68.75	69.16	69.57	69.98	70.39	70.80	71.21	71.62	72.03	72.44	72.85	73.26	73.67	74.08	74.49	74.90	75.31	75.72	76.13	76.54	76.95	77.36	77.77	78.18	78.59	79.00	79.41	79.82	80.23	80.64	81.05	81.46	81.87	82.28	82.69	83.10	83.51	83.92	84.33	84.74	85.15	85.56	85.97	86.38	86.79	87.20	87.61	88.02	88.43	88.84	89.25	89.66	90.07	90.48	90.89	91.30	91.71	92.12	92.53	92.94	93.35	93.76	94.17	94.58	94.99	95.40	95.81	96.22	96.63	97.04	97.45	97.86	98.27	98.68	99.09	99.50	99.91	100.32	100.73	101.14	101.55	101.96	102.37	102.78	103.19	103.60	104.01	104.42	104.83	105.24	105.65	106.06	106.47	106.88	107.29	107.70	108.11	108.52	108.93	109.34	109.75	110.16	110.57	110.98	111.39	111.80	112.21	112.62	113.03	113.44	113.85	114.26	114.67	115.08	115.49	115.90	116.31	116.72	117.13	117.54	117.95	118.36	118.77	119.18	119.59	120.00	120.41	120.82	121.23	121.64	122.05	122.46	122.87	123.28	123.69	124.10	124.51	124.92	125.33	125.74	126.15	126.56	126.97	127.38	127.79	128.20	128.61	129.02	129.43	129.84	130.25	130.66	131.07	131.48	131.89	132.30	132.71	133.12	133.53	133.94	134.35	134.76	135.17	135.58	135.99	136.40	136.81	137.22	137.63	138.04	138.45	138.86	139.27	139.68	140.09	140.50	140.91	141.32	141.73	142.14	142.55	142.96	143.37	143.78	144.19	144.60	145.01	145.42	145.83	146.24	146.65	147.06	147.47	147.88	148.29	148.70	149.11	149.52	149.93	150.34	150.75	151.16	151.57	151.98	152.39	152.80	153.21	153.62	154.03	154.44	154.85	155.26	155.67	156.08	156.49	156.90	157.31	157.72	158.13	158.54	158.95	159.36	159.77	160.18	160.59	161.00	161.41	161.82	162.23	162.64	163.05	163.46	163.87	164.28	164.69	165.10	165.51	165.92	166.33	166.74	167.15	167.56	167.97	168.38	168.79	169.20	169.61	170.02	170.43	170.84	171.25	171.66	172.07	172.48	172.89	173.30	173.71	174.12	174.53	174.94	175.35	175.76	176.17	176.58	176.99	177.40	177.81	178.22	178.63	179.04	179.45	179.86	180.27	180.68	181.09	181.50	181.91	182.32	182.73	183.14	183.55	183.96	184.37	184.78	185.19	185.60	186.01	186.42	186.83	187.24	187.65	188.06	188.47	188.88	189.29	189.70	190.11	190.52	190.93	191.34	191.75	192.16	192.57	192.98	193.39	193.80	194.21	194.62	195.03	195.44	195.85	196.26	196.67	197.08	197.49	197.90	198.31	198.72	199.13	199.54	199.95	200.36	200.77	201.18	201.59	202.00	202.41	202.82	203.23	203.64	204.05	204.46	204.87	205.28	205.69	206.10	206.51	206.92	207.33	207.74	208.15	208.56	208.97	209.38	209.79	210.20	210.61	211.02	211.43	211.84	212.25	212.66	213.07	213.48	213.89	214.30	214.71	215.12	215.53	215.94	216.35	216.76	217.17	217.58	217.99	218.40	218.81	219.22	219.63	220.04	220.45	220.86	221.27	221.68	222.09	222.50	222.91	223.32	223.73	224.14	224.55	224.96	225.37	225.78	226.19	226.60	227.01	227.42	227.83	228.24	228.65	229.06	229.47	229.88	230.29	230.70	231.11	231.52	231.93	232.34	232.75	233.16	233.57	233.98	234.39	234.80	235.21	235.62	236.03	236.44	236.85	237.26	237.67	238.08	238.49	238.90	239.31	239.72	240.13	240.54	240.95	241.36	241.77	242.18	242.59	243.00	243.41	243.82	244.23	244.64	245.05	245.46	245.87	246.28	246.69	247.10	247.51	247.92	248.33	248.74	249.15	249.56	249.97	250.38	250.79	251.20	251.61	252.02	252.43	252.84	253.25	253.66	254.07	254.48	254.89	255.30	255.71	256.12	256.53	256.94	257.35	257.76	258.17	258.58	258.99	259.40	259.81	260.22	260.63	261.04	261.45	261.86	262.27	262.68	263.09	263.50	263.91	264.32	264.73	265.14	265.55	265.96	266.37	266.78	267.19	267.60	268.01	268.42	268.83	269.24	269.65	270.06	270.47	270.88	271.29	271.70	272.11	272.52	272.93	273.34	273.75	274.16	274.57	274.98	275.39	275.80	276.21	276.62	277.03	277.44	277.85	278.26	278.67	279.08	279.49	279.90	280.31	280.72	281.13	281.54	281.95	282.36	282.77	283.18	283.59	284.00	284.41	284.82	285.23	285.64	286.05	286.46	286.87	287.28	287.69	288.10	288.51	288.92	289.33	289.74	290.15	290.56	290.97	291.38	291.79	292.20	292.61	293.02	293.43	293.84	294.25	294.66	295.07	295.48	295.89	296.30	296.71	297.12	297.53	297.94	298.35	298.76	299.17	299.58	299.99	300.40	300.81	301.22	301.63	302.04	302.45	302.86	303.27	303.68	304.09	304.50	304.91	305.32	305.73	306.14	306.55	306.96	307.37	307.78	308.19	308.60	309.01	309.42	309.83	310.24	310.65	311.06	311.47	311.88	312.29	312.70	313.11	313.52	313.93	314.34	314.75	315.16	315.57	315.98	316.39	316.80	317.21	317.62	318.03	318.44	318.85	319.26	319.67	320.08	320.49	320.90	321.31	321.72	322.13	322.54	322.95	323.36	323.77	324.18	324.59	325.00	325.41	325.82	326.23	326.64	327.05	327.46	327.87	328.28	328.69	329.10	329.51	329.92	330.33	330.74	331.15	331.56	331.97	332.38	332.79	333.20	333.61	334.02	334.43	334.84	335.25	335.66	336.07	336.48	336.89	337.30	337.71	338.12	338.53	338.94	339.35	339.76	340.17	340.58	340.99	341.40	341.81	342.22	342.63	343.04	343.45	343.86	344.27	344.68	345.09	345.50	345.91	346.32	346.73	347.14	347.55	347.96	348.37	348.78	349.19	349.60	350.01	350.42	350.83	351.24	351.65	352.06	352.47	352.88	353.29	353.70	354.11	354.52	354.93	355.34	355.75	356.16	356.57	356.98	357.39	357.80	358.21	358.62	359.03	359.44	359.85	360.26	360.67	361.08	361.49	361.90	362.31	362.72	363.13	363.54	363.95	364.36	364.77	365.18	365.59	366.00	366.41	366.82	367.23	367.64	368.05	368.46	368.87	369.28	369.69	370.10	370.51	370.92	371.33	371.74	372.15	372.56	372.97	373.38	373.79	374.20	374.61	375.02	375.43	375.84	376.25	376.66	377.07	377.48	377.89	378.30	378.71	379.12	379.53	379.94	380.35	380.76	381.17	381.58	381.99	382.40	382.81	383.22	383.63	384.04	384.45	384.86	385.27	385.68	386.09	386.50	386.91	387.32	387.73	388.14	388.55	388.96	389.37	389.78	390.19	390.60	391.01	391.42	391.83	392.24	392.65	393.06	393.47	393.88	394.29	394.70	395.11	395.52	395.93	396.34	396.75	397.16	397.57	397.98	398.39	398.80	399.21	399.62	400.03	400.44	400.85	401.26	401.67	402.08	402.49	402.90	403.31	403.72	404.13	404.54	404.95	405.36	405.77	406.18	406.59	407.00	407.41	407.82	408.23	408.64	409.05	409.46	409.87	410.28	410.69	411.10	411.51	411.92	412.33	412.74	413.15	413.56	413.97	414.38	414.79	415.20	415.61	416.02	416.43	416.84	417.25	417.66	418.07	418.48	418.89	419.30	419.71	420.12	420.53	420.94	421.35	421.76	422.17	422.58	422.99	423.40	423.81	424.22	424.63	425.04	425.45	425.86	426.27	426.68	427.09	427.50	427.91	428.32	428.73	429.14	429.55	429.96	430.37	430.78	431.19	431.60	432.01	432.42	432.83	433.24	433.65	434.06	434.47	434.88	435.29	435.70	436.11	436.52	436.93	437.34	437.75	438.16	438.57	438.98	439.39	43
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Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta (°)	-18.81-15.7	-11.12-9.31	-8.41-7.41	-6.67-6.04	-5.81-5.42	-5.58-5.57	-5.71-5.46	-6.69-7.19	-7.92-9.79	-11.68-14.81	-17.99-17.77	-19.23-18.74	-16.68-14.61	-13.03-12.21	-11.46-11.13	-10.82-11.36	-11.51-11.48	-10.63-10.22	-9.93-9.88	-10.51-10.1	-10.41-11.24	-11.83-13.4	-16.21-19.22	-19.43-17.96
Theta (15°)	-16.34-11.94	-9.08-8.31	-8.02-7.65	-8.47-10.64	-14.07-18.77	-19.07-17.48	-17.73-17.46	-19.08-18.26	-17.87-16.68	-13.67-10.28	-7.74-6.33	-5.32-4.94	-5.01-5.21	-5.61-6.21	-6.32-6.51	-7.42-7.7	-7.63-7	-6.47-6.59	-7.93-9.35	-11.16-12.51	-11.47-9.79	-9.56-11.52	-15.61-17.62	-18.11-18.57
Theta (22.5°)	-10.42-9.95	-13.49-18.01	-11.79-12.54	-17.01-8.88	-4.07-2.57	-2.97-2.02	-5.16-1.18	-8.28-10.65	-12.19-12.31	-12.75-10.09	-9.16-8.83	-8.58-5.35	-8.41-9.12	-9.94-10.49	-7.97-7.05	-7.16-8.43	-8.05-6.38	-4.65-9.82	-3.86-4.66	-6.11-6.31	-5.27-4.42	-3.82-3.99	-4.91-6.73	-9.83-10.98
Theta (30°)	-6.46-6.66	-6.72-8.45	-9.46-10.57	-10.34-8.81	-8.05-5.55	-2.02-3.95	-4.99-5.41	-5.99-6.43	-6.73-6.64	-7.54-8.63	-8.95-7.77	-7.21-9.41	-9.85-8.66	-9.74-16.05	-16.04-11.11	-7.52-7.12	-8.56-8.93	-8.46-8.75	-7.29-5.3	-2.89-1.23	0.190-98	0.42-1.74	2.91-1.87	2.31-3.83
Theta (37.5°)	-3.32-7.26	-2.75-0.24	0.49-1.36	-2.24-2.03	-3.37-7.21	-11.21-10.26	-8.83-6.58	-4.18-2.65	-1.85-1.63	-2.44-2.71	-1.71-1.08	-1.27-1.44	-5.71-4.86	-4.72-3.02	-2.51-3.15	-2.47-2.44	-4.23-5.7	-7.84-9.65	-6.96-4.38	-3.14-2.67	-1.560-69	1.91-1.77	1.54-1.2	0.63-1.02
Theta (45°)	-3.36-6.45	-2.02-1.12	3.26-2.47	1.08-3.1	-3.67-8.7	-6.69-4.6	-3.47-1.02	0.790-4.6	-0.56-0.48	-1.49-3.2	-1.98-2.63	-3.4-6.6	-3.54-4.06	-4.19-2.27	-2.38-1.31	0.78-0.01	-2.28-3.89	-3.51-1.35	-1.110-29	0.870-94	0.07-0.1	1.48-1.72	0.95-1.86	
Theta (52.5°)	-1.76-6.18	-8.17-3.86	1.62-1.77	-0.18-1.53	-2.34-2.24	-2.06-2.18	-1.890-8.2	2.230-9.6	-0.89-1.11	-2.43-6.23	-5.91-6.57	-6.66-4.62	-4.49-6.1	-7.77-2.3	-1.490-6.8	1.05-1.02	0.50-7	-2.25-5.78	-5.38-1.38	0.880-6.8	1.792-1.6	1.2-0.26	1.020-0.8	-1.07-1.9
Theta (60°)	-0.21-3.68	-6.38-6.28	-0.89-1.35	-0.660-0.3	-0.48-3.17	-5.31-5.54	-3.53-1.54	-0.21-0.4	-1.220-0.4	-0.09-2.53	-2.34-0.48	0.471-0.3	-0.89-4.34	-4.870-0.7	1.222-5.2	1.35-1.74	0.960-0.8	-4.65-9.85	-8.29-3.72	0.411-15	1.642-25	1.750-7.2	2.781-59	1.68-1
Theta (67.5°)	0.12-0.77	-0.22-3.96	-1.56-2.3	1.032-8.5	1.02-3.6	-9.71-12.6	-3.04-1.52	-0.21-0.4	1.41-7.1	1.35-0.88	0.672-6.8	3.072-1.3	0.53-0.59	-0.85-1.1	2.152-4.7	1.53-1.9	1.26-0.84	-5.08-8.8	-7.2-3.46	1.41-3.1	2.532-37	2.620-49	3.972-27	3.182-34
Theta (75°)	-0.52-1.44	2.09-0.21	-0.982-2	2.213-6.9	1.6-0.56	-7.13-7.89	-1.380-4.5	0.281-4	3.390-8.5	1.440-7.1	2.623-7.8	3.632-8.1	1.291-3.6	0.370-5.2	2.022-3.4	0.82-3.8	2.390-15	-2.82-4.45	-1.54-1.53	3.524-8.2	3.062-37	2.42-0.18	3.471-31	3.222-6
Theta (82.5°)	-3.18-1.48	1.940-8	-2.890-15	2.482-7.4	2.072-7.2	-6.68-13.3	-1.35-0.89	0.880-2.4	3.74-0.09	0.740-3.3	2.733-2.5	2.512-0.8	1.181-4	0.4-0.23	1.920-87	-0.732-4.4	2.90-4.5	-0.2-3.44	-0.33-1.48	1.47-1.75	2.110-99	0.63-1.39	1.47-1.5	1.921-71
Theta (90°)	-5.88-8.61	0.521-0.8	-4.49-1.96	1.680-5.9	1.591-4.5	-4.83-8.66	-3.56-1.61	0.990-2.9	0.870-1.8	0.571-4.5	0.461-3.3	0.080-5.7	1.531-9.7	0.661-3.3	1.110-23	3.751-9.5	2.001-4.5	0.483-8.8	-0.93-4.83	2.553-6.5	1.910-7.5	-3.33-4.54	-0.5-3.56	-1.80-31
Theta (97.5°)	-6.84-7.41	-0.980-2.9	-5.18-4.01	0.31-2.43	-1.17-1.11	-6.04-9.26	-7.01-11.43	-1.16-1.81	1.56-0.89	0.521-0.6	0.710-1.9	-2.060-0.2	0.47-0.6	-1.5-4.42	-0.53-2.38	-5.740-8.2	-0.570-0.6	-0.53-4.89	-2.45-7.7	0.441-1.9	0.66-6.19	-11.03-7.6	-3.08-4.69	-2.24-1.98
Theta (105°)	-6.46-6.68	-3.3-0.86	-3.44-5.1	-2.02-4.9	-3.04-6.73	-6.82-6.69	-6.34-14.92	-4.78-6.01	-2.14-1.78	-1.05-2.08	-1.32-1.82	-4.09-4.79	-1.95-7.5	-3.93-1.91	-6.49-3.01	-2.71-8.42	-5.43-11.4	-8.82-4.09	-3.03-10.3	-8.43-6.31	-4.74-5.17	-3.96-3.76	-7.02-5.2	
Theta (112.5°)	-8.33-5.77	-7.614-12	-3.24-5.71	-6.21-5.05	-7.827-5.6	-14.13-9.06	-8.2-10.17	-7.91-7.69	-14.78-11	-7.68-5.29	-6.57-13.41	-4.1-9.92	-2.45-1.47	-4.48-3.85	-3.42-3.49	-5.12-4.82	-6.95-2.08	-3.34-11.22	-6.56-8.78	-10.72-6.26	-6.30-9.79	-8.84-3.29	-4.74-5.87	-10.19-17.5
Theta (120°)	-9.26-8.59	-7.05-9.14	-5.72-8.69	-5.49-4.07	-5.77-14.96	-13.72-11.45	-8.54-7.19	-2.55-3.35	-3.88-4.41	-5.99-8.81	-10.36-7.26	-2.65-1.3	-2.69-7.47	-6.54-5.05	-7.38-5.3	-7.54-15.54	-6.1-6.48	-2.3-14.43	-7.71-15.89	-11.41-4.73	-4.88-7.16	-15.14-6.98	-5.41-5.43	-9.65-10.47
Theta (127.5°)	-15.19-27	-5.05-5.55	-8.74-9.5	-8.33-3.58	-5.17-11.67	-18.11-17.87	-16.86-18.99	-9.84-5.43	-2.43-0.27	-2.07-5	-5.28-3.42	-4.13-3.06	-6.1-8.47	-7.49-3.2	-7.97-10.71	-14.03-14.81	-5.18-5.2	-2.89-12.3	-8.4-14.6	-5.29-8.86	-6.65-14.92	-10.37-5.29	-5.59-12.27	-11.91-17.36
Theta (135°)	-17.15-11.4	-7.77-11.59	-9.57-9.14	-7.52-10.45	-7.72-17.94	-17.72-6.72	-8.12-6.71	-10.11-15.31	-11.59-18.32	-17.82-9.97	-8.96-6.48	-12.27-8.27	-8.63-13.08	-11.86-15.37	-10.67-14.51	-10.47-14.88	-5.67-6.5	-2.16-11.93	-7.3-6.79	-15.55-13.01	-8.88-7	-10.18-10.88	-2.53-5.12	-8.83-18.53
Theta (142.5°)	-13.12-9.32	-7.55-7.08	-11.53-10.48	-8.55-9.1	-13.66-11.98	-15.42-17.7	-18.37-18.53	-15.69-6.69	-4.84-8.24	-11.23-8.23	-6.55-7.06	-7.23-6.82	-1.28-17.43	-17.58-11.86	-18.86-18.8	-7.03-18.19	-16.24-7.63	-7.48-13.98	-14.38-11.87	-19.29-13.9	-7.18-8.13	-12.91-12.79	-6.53-7.04	-17.2-17.94
Theta (150°)	-17.43-12.51	-15.01-14.77	-9.81-14.06	-16.56-11.55	-7.84-9.59	-14.98-18.91	-17.98-9.17	-5.98-6.96	-9.81-11.81	-14.82-17.97	-17.43-11.05	-10.38-9.43	-12.62-16.21	-15.88-12.74	-10.81-7.07	-6-11.64	-18.91-9.72	-9.58-16.56	-17.97-19.08	-16.29-18.84	-11.35-13.65	-11.48-4.58	-4.19-9.19	-13.07-16.69
Theta (157.5°)	-12.44-17.81	-12.35-10.42	-8.97-8.52	-8.59-11.94	-17.45-17.97	-15.9-12.5	-10.18-11.21	-12.49-17.77	-14.02-10.19	-11.61-16.98	-16.52-13.72	-14.08-19.21	-10.48-6.81	-5.25-5.39	-6.33-9.84	-18.55-13.5	-13.62-18.94	-17.46-17.81	-19.4-19.19	-19.17-18.86	-11.79-0.98	-8.37-8.27	-7.56-0.68	
Theta (165°)	-17.28-14.91	-12.92-14.12	-17.39-17.76	-13.15-10.63	-8.98-8.37	-10.28-14.8	-18.25-17.75	-13.91-12.13	-12.03-11.89	-12.83-18.14	-18.13-18.2	-14.7-13.1	-14.09-12.08	-8.61-7.34	-9.09-14.2	-18.81-15.06	-10.86-10.28	-13.21-17.66	-18.3-12.9	-12.92-13.14	-15.63-17.75	-10.82-13.2	-13.63-14.04	-13.72-16.62
Theta (172.5°)	-13.95-16.19	-17.42-16.86	-17.25-17.24	-17.3-15.04	-14.45-13.72	-14.75-18.78	-17.43-17.91	-15.41-16.17	-16.64-17.76	-18.8-19.17	-15.82-12.77	-11.52-10.73	-9.98-9.03	-8.58-9.09	-11.13-14.26	-18.82-18.45	-16.72-15.55	-16.18-18.83	-19.08-17.6	-15.95-15.63	-17.34-18.08	-19.71-18.72	-15.37-15.57	-11.19-12.35
Theta (180°)	-9.79-9.47	-10.58-10.81	-10.69-10.73	-10.72-11.75	-12.78-14.16	-16.8-16.92	-17.82-17.81	-17.63-17.3	-15.32-15.01	-15.45-18.07	-18.03-17.56	-18.21-18.55	-17.85-18.18	-18.59-17.05	-18.31-16.65	-15.26-15.3	-18.25-19.03	-18.47-18.22	-18.03-14.87	-17.86-17.81	-18.71-18.46	-13.38-12.96	-11.27-9.97	
Gain (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	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 (0°)	Phi(7.5°)	Phi(15°)	Phi(22.5°)	Phi(30°)	Phi(37.5°)	Phi(45°)	Phi(52.5°)	Phi(60°)	Phi(67.															



Radiated Composite Gain Data_6G (4TX)

Appendix E

Theta	0.67156	0.881108	0.7258	2.7222	2.23169	1.15019	-0.24115	1.76222	1.13307	-0.67136	3.1277	0.26301	1.87188	0.081	1.68085	1.44182	2.81326	2.4153	1.33077	0.08143	-5.54127	-2.21327	-1.57035	0.37082
Theta(60°)	0.13-0.17	-0.1-1.64	1.67387	3.96462	4.32271	2.46184	1.2222	3.52041	3.09226	1.56225	3.97416	2.3219	3.23389	2.76127	0.82011	0.97226	3.61394	2.67126	0.3049	0.24141	-3.913	-1.73126	1.23169	1.81195
Theta(75°)	-0.24-1.51	-0.31-1.84	1.34	3.02437	5.79325	2.12083	0.27205	3.73275	2.4311	2.73153	2.98453	3.33127	1.91274	3.19131	-0.3513	0.48214	3.20319	3.39209	-0.4914	-0.01288	-5.01156	-3.19149	1.04089	0.41121
Theta(82.5°)	0.14-1.85	-2.15-2.93	0.54151	1.41337	5.53296	0.22218	-1.44011	1.91028	0.44283	1.82018	2.48399	3.04045	-0.62017	1.62058	-2.69126	-1.02076	2.88376	4.19208	-0.84212	-0.17107	-5.55125	-4.53185	-0.82122	-2.7153
Theta(90°)	-1.18-2.79	-3.63-5.19	-0.79-0.4	-0.41-1.28	4.08217	-0.44-0.83	-3.39-1.66	-2.04-1.34	-3.2103	0.94131	0.92285	2.56102	-2.73-5.17	-1.38047	-3.021385	-2.4113	1.16239	4.16231	-0.21132	-0.21011	-9.62186	-4.48149	-4.63131	-3.531242
Theta(97.5°)	-6.25-15	-4.19-10.71	-2.55-2.23	-1.91-0.71	1.72146	-9.61-9.51	-4.25-1.97	-4.91-3.62	-4.43107	-0.12106	-0.83105	1.16112	-4.35-6.26	-5.72641	-6.26-4.71	-3.85151	-3.25052	2.66141	0.402117	-0.981268	-1.602149	-4.68178	-0.051432	-2.53147
Theta(105°)	-14.55-8.55	-6.26-7.96	-5.62-4.12	-2.12-1.51	-0.49-2.71	-14.86-17.35	-11.85-4.61	-2.86-4.28	-3.11131	-1.251076	-3.71-2.66	0.19-1.51	-5.08-7.34	-6.01-0.82	-2.31-6.09	-3.91-10.76	-7.42-2.41	-2.28-4.33	-2.17-5.32	-2.19-11.88	-7.73-5.51	-6.43-18.11	-12.04-4.42	-2.55-10.18
Theta(112.5°)	-19.21-10.12	-6.7-8.14	-8.99-7.17	-4.01-1.62	-1.92-5.72	-16.48-19	-12.36-4.28	-1.68-7	-3.64-4.28	-4.28-5.24	-4.46-4.65	-2.65-4.88	-10.26-9.52	-4.24-1.61	-4.97-6.61	-3.49-4.15	-5.55-9.02	-2.58-3.95	-4.08-5.62	-4.81-14.39	-3.92-7.27	-12.08-8.21	-14.27-2.69	-6.04-14.5
Theta(120°)	-10.97-5.16	-5.32-10.62	-15.16-11.23	-8.89-2.59	-5.11-9.47	-15.12-11.68	-12.21-6.54	-4.11-8.76	-10.78-2.28	-4.84-11.04	-7.37-5.42	-3.23-6.89	-10.91-9.29	-8.07-4.33	-7.61-6.34	-5.89-5.23	-18.13-6.29	-4.4-4.43	-7.73-4.43	-4.68-7.48	-13.71-16.66	-14.37-4	-1.99-5.68	-14.12-11.97
Theta(127.5°)	-6.01-4.43	-6.28-9.9	-13.74-9.69	-11.55-4.27	-5.02-14.92	-17.87-10.18	-11.17-17.49	-11.03-9.95	-11.98-7.58	-2.28-5.22	-11.17-8.18	-4.13-5.9	-8.61-11.44	-10.55-6.65	-4.84-6.16	-16.49-11.49	-13.31-13.57	-9.06-7.02	-7.54-7.24	-3.52-8.2	-12.69-8.44	-7.41-5.57	-14.44-10.29	-13.57-11.53
Theta(135°)	-6.19-9.41	-6.15-6.46	-11.19-11.11	-9.43-7.58	-4.97-7.26	-12.21-14.19	-9.75-15.39	-11.44-3.08	-1.74-6.72	-8.63-4.6	-3.65-5.87	-15.72-13.12	-15.24-14.63	-8.87-8.56	-9.5-4.99	-4.18-10.22	-11.89-11.87	-11.72-10.12	-10.91-12.84	-6.96-18.17	-7.41-6.53	-7.31-6.98	-17.97-14.98	-8.26-5.66
Theta(142.5°)	-5.31-6.92	-6.18-7.11	-13.07-16.23	-11.17-15.34	-12.93-11.27	-12.29-12.65	-7.63-11.14	-17.87-10.02	-4.6-4.3	-8.71-16.03	-12.65-8.35	-6.93-6.68	-11.36-10.46	-8.97-11.93	-7.11-11.33	-10.71-10.88	-18.08-10.55	-18.05-14.19	-8.16-5.31	-10.03-15.85	-9.08-9.83	-10.99-18.46	-15.24-15.54	-8.48-5.33
Theta(150°)	-6.82-10.63	-9.57-9.43	-15.31-18.01	-10.15-9.49	-9.67-10.97	-15.1-9.9	-8.01-10.55	-7.63-7.02	-13.68-13.75	-8.88-6.28	-5.37-8.92	-11.67-13.14	-12.26-9.29	-9.09-12.09	-17.74-14.63	-13.48-15.7	-15.72-18.34	-18.41-18.01	-13.59-14.23	-17.71-17.25	-19.15-13.64	-13.98-11.51	-17.91-11.35	-6.73-4.87
Theta(157.5°)	-8.67-13.03	-16.47-18.66	-18.25-17.92	-18.02-19.09	-17.21-12.13	-14.04-17.53	-19.28-13.81	-7.25-5.01	-5.33-6.02	-6.99-9.12	-10.33-11.08	-13.47-12.37	-10.91-13.72	-14.61-10.31	-12.45-14.12	-14.61-15.7	-14.26-16.99	-18.58-15.7	-16.85-18.7	-16.04-15.52	-18.05-15.22	-13.79-14.11	-12.98-12.97	-10.29-16.9
Theta(165°)	-13.88-15.62	-17.58-18.64	-18.68-15.05	-18.08-9.17	-18.17-18.33	-10.02-13.36	-17.41-18.91	-18.84-17.49	-13.44-8.59	-6.25-5.8	-17.12-7.88	-13.91-19.08	-18.15-12	-12.916	-7.716.79	-8.4615.17	-17.5615.39	-15.1414.27	-17.9818.21	-17.9512.78	-13.0114.3	-17.1918.46	-18.3418.25	-14.8113.1
Theta(172.5°)	-18.76-18.23	-17.51-15.11	-12.71-10.41	-10.36-11.52	-12.54-13.58	-10.66-9.54	-10.22-12.11	-13.59-13.01	-11.54-10.58	-9.73-8.8	-8.24-8.81	-10.41-12	-13.71-16.06	-17.95-18.17	-19.26-18.83	-16.64-15.9	-14.84-14.37	-14.27-12.82	-10.76-10.13	-12.36-14.33	-16.29-16.79	-15.91-15.69	-17.17-17.9	-19.14-18.79
Theta(180°)	-12.66-13.2	-12.41-14.19	-15.99-18.34	-18.31-15.27	-12.62-12.57	-11.66-10.52	-10.03-4.93	-8.78-3.89	-8.27-8.79	-9.65-11.29	-12.75-13.3	-14.33-15.2	-14.46-15.21	-17.67-16.42	-15.16-15.44	-16.51-18.92	-17.89-18.76	-17.89-17.94	-15.52-12.85	-11.54-10.25	-9.22-7.89	-7.93-8.58	-10.75-12.94	-13.38-12.42
Freq(Hz)	6.475GPd	Phi/Ant.4																						
Gain	Phi(0°)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°)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(0°)	-8.48-8.64	-8.71-8.77	-8.36-7.6	-7.36-7.31	-7.22-7.17	-6.87-8.1	-7.05-7.7	-8.16-8.66	-9.67-11.1	-11.45-11.85	-11.82-13.2	-12.16-11	-10.27-9.96	-9.94-6.88	-9.09-8.8	-8.14-7.34	-6.29-6.89	-6.82-9.5	-9.55-9.47	-10.82-11.87	-11.09-9.81	-8.41-9.17	-9.35-8.82	-8.07-8.12
Theta(7.5°)	-13.07-11.99	-9.56-8.41	-7.62-6.92	-7.17-7.46	-7.53-7.53	-7.93-9.81	-10.71-11.11	-10.98-10.71	-9.2-8.5	-7.91-7.89	-6.87-7.56	-5.99-6.25	-6.89-6.02	-9.09-8.81	-8.69-7.16	-5.89-5.27	-5.96-6.65	-6.72-6.99	-7.34-9.57	-12.62-13.51	-13.95-16.27	-18.82-16.92	-14.15-13.06	
Theta(15°)	-11.6-9.27	-7.78-6.99	-6.96-7.66	-7.44-6.97	-6.61-7.18	-9.53-13.64	-19.53-18.82	-13.55-12.05	-11.71-12.03	-13.65-18.52	-15.01-10.33	-9.02-8.17	-7.37-7.77	-8.18-7.78	-7.94-7.88	-8.93-10.77	-9.75-7.7	-5.56-5.25	-5.14-6.34	-7.71-10.36	-17.48-18.44	-14.48-13.01	-12.96-11.83	-11.35-11.09
Theta(22.5°)	-4.82-3.33	-3.27-3.54	-5.59-10.07	-17.62-16.61	-12.75-9.11	-7.34-8.43	-15.22-14.81	-7.49-6.31	-8.91-13.68	-16.11-18.01	-17.82-15.76	-12.18-16.63	-9.63-10.89	-12.09-10.56	-8.11-6.58	-6.92-10.46	-16.91-12.95	-6.43-13.3	-2.46-3.59	-7.11-13.53	-15.85-14.89	-8.52-6.51	-6.42-8.11	-6.95-9.42
Theta(30°)	-3.81-5.12	-4.74-8.44	-9.43-14.85	-18.33-18.81	-17.46-14.37	-9.66-10.24	-12.32-7.26	-5.22-6.57	-11.16-14.74	-18.46-13.21	-8.68-11.41	-12.15-9.42	-8.75-10.69	-14.71-15.47	-12.54-9.5	-9.38-11.68	-11.76-14.54	-10.63-4.44	-2.52-3.55	-7.99-14.91	-16.13-18.33	-7.87-3.44	-3.71-7.26	-12.44-6.57
Theta(37.5°)	-9.87-11.13	-15.98-18.03	-10.81-8.92	-16.69-18.04	-16.05-15.38	-16.48-15.63	-11.79-8.56	-8.08-12.1	-19.11-16.82	-15.56-6.61	-3.81-6.9	-8.35-7.45	-4.47-7.19	-9.83-11.46	-12.56-14.63	-12.16-17.48	-16.51-10.99	-11.21-11.66	-10.48-10.35	-14.74-19.11	-18.93-17.95	-8.98-4.84	-9.85-12.43	-12.32-13.21
Theta(45°)	-16.89-17.46	-18.88-18.74	-11.11-7.93	-13.12-15.27	-8.97-8.85	-10.79-10.7	-11.77-10.48	-11.32-17.12	-18.55-18.84	-9.85-4.09	-5.27-5.66	-7.57-7.12	-6.32-10.44	-9.78-10.6	-11.87-18.9	-17.46-16.61	-10.61-18.1	-14.49-14.51	-11.41-10.58	-14.03-16.69	-18.05-18.71	-10.58-11.68	-18.65-11.62	-11.37-18.27
Theta(52.5°)	-16.89-10.84	-13.21-17.85	-17.52-11.96	-19.21-10.64	-15.27-14.07	-14.06-11.05	-10.66-11.87	-11.22-10.87	-15.28-17.23	-11.62-7.21	-6.71-5.66	-7.84-14.34	-18.23-14.03	-15.91-18.11	-11.26-10.83	-10.84-15.23	-5.89-7.98	-10.02-14.67	-15.32-11.81	-18.41-17.76	-19.24-12.66	-18.38-11.28	-14.77-18.81	
Theta(60°)	-15.83-10.28	-10.38-17.02	-17.39-9.66	-13.21-14.46	-5.66-8.5	-15.41-11.52	-8.38-18.89	-15.02-15.26	-18.94-11.08	-9.44-7.61	-18.54-10.98	-7.08-11.19	-10.13-13.61	-16.02-15.19	-14.16-18.39	-12.39-8.57	-8.26-17.58	-5.49-7.24	-18.17-15.52	-12.61-15.76	-18.32-17.19	-18.98-11.2	-14.41-18.09	-17.51-16.28
Theta(67.5°)	-16.31-10.34	-15.13-19.35	-11.51-5.77	-8.89-18.01	-7.53-9.1	-18.29-17.73	-9.95-19.33	-13.23-18.35	-12.25-10.95	-17.97-11.71	-9.87-13.23	-16.23-17.52	-11.48-14.22	-11.53-16.74	-9.81-8.39	-8.75-13.99	-8.21-5.78	-12.48-12.58	-12.85-14.89	-18.47-19.34	-17.38-17.17	-9.17-18.8	-12.36-11.28	-12.36-11.28
Theta(75°)	-14.05-14.06	-16.74-18.25	-10.21-6.2	-7.21-14.27	-8.23-8.66	-18.57-17.68	-12.39-19.33	-11.39-17.59	-11.07-10	-9.95-8.94	-14.51-10.11	-12.16-17.78	-18.08-13.82	-12.48-10.17	-11.09-17.19	-10.27-7.78	-9.21-17.84	-11.65-5.34	-9.91-9.58	-11.19-18.13	-19.01-13.37	-16.27-7.49	-10.42-18.15	-11.56-14.21
Theta(82.5°)	-17.51-18.4	-18.41-17.46	-14.31-7.48	-7.78-12.38	-8.64-10.66	-19.22-18.13	-15.87-13.69	-11.08-17.31	-10.88-13.92	-10.35-12.42	-12.85-10.53	-13.67-18.26	-16.74-18.93	-13.19-15.9	-12.32-16.43	-9.29-7.83	-13.45-18.29	-14.84-8.28	-9.71-12.11	-10.66-17.42	-16.27-15.42	-14.93-6.67	-13.77-17.75	-15.25-17.88
Theta(90°)	-17.41-19.03	-18.23-18.12	-16.28-9.67	-10.53-15.48	-10.25-13.71	-17.94-12.27	-16.15-15.71	-11.19-17.57	-13.25-11.75	-13.11-14.69	-13.92-11.11	-17.83-18.15	-12.72-17.02	-15.18-16.19	-16.81-18	-14.81-8.49	-11.02-16							



Radiated Composite Gain Data_6G (4TX)

Appendix E

Gain	Phi(0°)/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°)/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(120°)	-17.08/-8.23	-14.97/-11.62	-5.39/-3.14	-3.37/-4.14	-4.99/-6.05	-11.88/-19.79	-5.15/-3.68	-2.69/-2.3	-2.31/-11.62	-11.48/-6.26	-3.43/-1.47	0.25/-1.5	-5.49/-5.59	-10.41/-3.99	-4.48/-9.5	-5.91/-14.03	-5.14/-6.15	-3.3/-4.01	-6.54/-10.32	-10.45/-16.76	-17.15/-8.19	-8/-5.3	-5/-7.84	-4.05/-8.09
Theta(120°)	-18.72/-11.32	-12.51/-9.86	-8.19/-7.46	-4.42/-3.47	-7.41/-10.45	-9.49/-13.34	-12.96/-11.94	-13.21/-7.45	-7.78/-13.21	-8.84/-4.23	-2.93/-4.09	-3.72/-3.62	-4.79/-4.59	-6.63/-5.75	-5.19/-8.89	-6.48/-18.13	-9.51/-9.71	-2.93/-1.96	-5.97/-8.61	-6.44/-12.6	-11.72/-7.09	-12.31/-9.67	-8.1/-14.44	-4.48/-8.89
Theta(127.5°)	-17.3/-18.29	-11.79/-17.58	-8.38/-4.94	-5.52/-7.04	-7.28/-16.04	-16.47/-10.18	-6.22/-1.83	-2.94/-8.99	-5.76/-3.49	-6.94/-4.82	-3.09/-6.1	-6.41/-7.28	-8.73/-8.18	-7.92/-10.15	-4.72/-6.55	-18.97/-18.93	-13.49/-17.52	-11.4/-12.48	-17.2/-9.39	-8.82/-8.93	-15.75/-11.22	-16.47/-6.98	-6.56/-8.63	-9.51/-7.97
Theta(135°)	-14.22/-12.69	-7.58/-8.01	-11.21/-7.56	-7.58/-6.96	-8.43/-13.94	-17.05/-17.94	-18.94/-11.47	-5.35/-5.99	-8.58/-8.55	-10.93/-16.1	-15.24/-9.83	-3.75/-3.22	-5.23/-7.54	-15.27/-7.35	-1.75/-6.16	-18.81/-14.53	-16.75/-18.66	-9.57/-9.04	-14.05/-8.16	-8.65/-17.85	-17.26/-16.04	-5.11/-6.67	-11.16/-7.45	-14.46/-19.24
Theta(142.5°)	-8.36/-14.91	-12.42/-7.48	-9.57/-16.31	-14.25/-10.19	-11.15/-17.64	-18.42/-13.1	-8.62/-9.84	-10.64/-10.09	-9.67/-9.29	-5.66/-5.06	-8.19/-8.25	-7.89/-7.05	-11.04/-14.08	-12.54/-6.87	-6.7/-9.17	-10.35/-10.93	-18.5/-13.86	-15.51/-17.84	-17.57/-17.42	-18.43/-15.85	-13.55/-15.39	-10.18/-11.12	-15.33/-18.01	-18.47/-11.31
Theta(150°)	-12.57/-6.94	-9.34/-16.06	-9.82/-10.16	-13.58/-18.93	-18.18/-19.47	-19.06/-18	-11.17/-9.02	-8.3/-8	-7.61/-7.61	-11.27/-13.96	-14.93/-10.15	-6.23/-6.52	-7.72/-12.41	-11.36/-9.73	-13.1/-14.16	-9.96/-13.69	-19.07/-13.7	-12.22/-17.6	-17.53/-13.76	-15.7/-17.3	-11.64/-9.37	-14.11/-19.02	-8.31/-10.15	-13.08/-16.62
Theta(157.5°)	-17.85/-15.56	-17.55/-17.92	-18.77/-19.18	-17.85/-17.81	-13.92/-13.25	-13.82/-13.9	-12.43/-13.85	-15.33/-16.54	-17.05/-14.06	-8.93/-6.78	-8.33/-10.34	-11.65/-12.25	-10.49/-9.73	-10.9/-13.84	-16.77/-18.34	-14.09/-13.88	-13.59/-11.46	-12.26/-13.26	-14.12/-18.46	-17.91/-18.89	-17.16/-18.89	-19.26/-18.79	-19.25/-18.15	-12.99/-14.75
Theta(165°)	-15.67/-13.36	-17.94/-17.36	-15.49/-14.21	-16.02/-18.15	-19.11/-15.39	-14.08/-15.56	-16.15/-13.04	-12.23/-11.1	-9.54/-7.75	-6.35/-5.96	-7.22/-9.17	-11.94/-13.08	-12.63/-13.47	-19.24/-18.03	-14.75/-10.5	-9.11/-11.61	-18.02/-17.89	-18.19/-18.56	-18.89/-17.78	-18.54/-11.24	-10.24/-12.61	-16.05/-18.8	-18.81/-12.23	-13.38/-18.28
Theta(172.5°)	-18.92/-17.72	-14.29/-13.69	-13.34/-13.55	-13.72/-14.83	-19.2/-18.34	-17.73/-17.69	-19.39/-18.58	-17.55/-15.53	-14.34/-13.65	-15.23/-16.58	-13.71/-12.35	-13.02/-13.26	-13.81/-16.2	-17.36/-18.91	-17.96/-15.29	-12.63/-11.66	-11.52/-12.92	-15.21/-13.24	-11.9/-11.81	-15.32/-18.74	-18.38/-15.58	-16.44/-19.01	-18.71/-15.78	-16.83/-18.7
Theta(180°)	-17.4/-18.7	-16.95/-18.54	-18.54/-19.37	-18.89/-17.77	-18.22/-15.45	-14.18/-14.07	-14.88/-16.96	-16.63/-16.38	-14.79/-13.96	-13.71/-16.26	-17.74/-17.38	-16.95/-17.3	-19.32/-17.86	-17.57/-19	-18.36/-18.57	-17.5/-18.66	-16.37/-14	-13.18/-13.04	-12.89/-11.8	-9.99/-8.72	-8.65/-7.7	-7.57/-8.36	-8.88/-10.29	-13.13/-15.06
Gain	Phi(0°)/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°)/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(0°)	-11.22/-12.71	-13.3/-11.88	-10.68/-11.05	-10.78/-11.07	-10.81/-9.59	-8.61/-8.3	-8.3/-9.6	-10.8/-11.27	-10.67/-10.43	-11.57/-13.36	-12.83/-11.38	-9.71/-9.73	-10.04/-10.24	-10.34/-9.84	-9.89/-10.21	-9.93/-11.4	-12.95/-12.89	-11.54/-11.44	-12.28/-14.1	-14.68/-13.75	-12.51/-13.14	-13.41/-12.85	-13.77/-14.07	-13.91/-11.88
Theta(7.5°)	-13.97/-13.36	-14.89/-12.66	-11.74/-11.52	-11.01/-11.46	-11.81/-12.83	-12.91/-14.26	-13.65/-14.56	-13.88/-13.61	-14.69/-15.02	-13.86/-13.43	-12.96/-13.74	-13.15/-13.01	-12.84/-12.72	-11.35/-10.88	-10.81/-10.13	-8.99/-7.93	-6.33/-6.5	-6.33/-7.05	-7.31/-8.46	-10.53/-13.71	-13.67/-13.22	-14.12/-14.34	-14/-14.01	-15.08/-15.1
Theta(15°)	-10.84/-7.39	-7.27/-8.22	-11.33/-15.87	-17.22/-14.79	-14.13/-11.69	-11.13/-12.71	-16.44/-15.7	-12.63/-10.08	-7.87/-8.47	-11.91/-19.02	-18.14/-18.08	-17.11/-18.44	-16.11/-13.17	-11.07/-10.49	-10.39/-10.79	-11.27/-10.62	-8.33/-6.69	-5.8/-5.51	-6.01/-7.19	-9.26/-13.9	-14.6/-11.36	-11.4/-12.12	-12.05/-13.42	-18.9/-19.21
Theta(22.5°)	-7.65/-4.16	-2.23/-3.1	-6.81/-13.95	-12.31/-10.51	-15.67/-12.01	-9.64/-12.17	-13.87/-8.96	-5.21/-3.2	-3.67/-7.26	-17.21/-18.2	-15.19/-14.94	-15.51/-13.04	-10.95/-8.78	-8.71/-9.89	-10.73/-10.37	-9.87/-11.39	-14.97/-15.07	-10.68/-7.02	-4.67/-4.78	-8.79/-14.23	-9.85/-8.58	-9.64/-11.11	-13.19/-16.64	-13/-9.65
Theta(30°)	-4.13/-4.86	-4.1/-4.56	-6.94/-13.73	-16.53/-18.61	-16.88/-9.1	-6.13/-9.83	-17.46/-14.84	-9.12/-8.18	-11.79/-18.94	-13.58/-12.48	-11.94/-11.36	-13.78/-12.46	-14.9/-7.73	-17.93/-18.59	-13.95/-14.15	-16.34/-12.5	-11.86/-7.4	-6.23/-7.87	-12.06/-19.09	-12.07/-9.43	-7.9/-6.16	-7.41/-15.17	-13.76/-25.9	-13.76/-25.9
Theta(37.5°)	-5.21/-7.79	-9.97/-9.8	-10.32/-11.47	-19.18/-18.94	-16.98/-7.16	-4.86/-9.73	-19.16/-17.73	-9.63/-9.73	-17.74/-18.74	-18.11/-10.12	-8.1/-10.44	-12.12/-9.85	-15.2/-8.45	-6.41/-9.71	-17.68/-9.26	-12.12/-9.98	-17.71/-18.44	-10.57/-6.9	-7.52/-10.87	-10.57/-9.95	-10.27/-10.18	-10.32/-8.21	-8.68/-16.5	-14.44/-14.2
Theta(45°)	-11.37/-12.6	-14.21/-11.31	-8.55/-7.98	-11.93/-18.74	-11.88/-10.07	-10.39/-14.76	-15.77/-14.17	-10.59/-11.1	-18.52/-18.52	-8.96/-4.93	-7.25/-10.21	-8.63/-12.34	-19.17/-18.43	-14.64/-11.09	-18.56/-16.81	-18.27/-9.5	-11.71/-19.2	-8.65/-7.83	-11.09/-16.47	-11.41/-7.35	-10.65/-17.77	-15.54/-15.71	-18.52/-15.39	-18.82/-18.05
Theta(52.5°)	-18.13/-14.63	-17.9/-13.92	-11.56/-9.04	-9.78/-10.24	-8.21/-13.13	-19.33/-17.99	-15.41/-18.45	-18.29/-19.25	-11.23/-18.62	-10.39/-14.02	-15.59/-17.37	-9.83/-11.43	-18.36/-19.02	-14.88/-15.14	-17.94/-18.29	-11.84/-7.95	-19.72/-14.5	-6.88/-5.38	-18.51/-16.58	-13.27/-9.58	-16.16/-13.35	-15.61/-14.63	-18.31/-15.55	-14.9/-13.79
Theta(60°)	-17.66/-14.96	-18.35/-14.43	-16.08/-13.62	-8.28/-8.45	-7.09/-11.11	-18.52/-18.43	-13.11/-17.42	-16.15/-10.2	-10.64/-10.73	-18.41/-18.22	-17.11/-13.35	-13.62/-14.73	-16.98/-18.68	-12.24/-14.78	-16.73/-18.24	-11.02/-5.7	-18.28/-12.76	-9.92/-9.91	-14.88/-14.69	-12.73/-13.08	-12.18/-17.87	-17.43/-15.77	-12.96/-15.03	-12.92/-12.95
Theta(67.5°)	-13.39/-18.14	-17.11/-19.04	-12.72/-11.73	-8.91/-12.27	-11.31/-11.14	-18.11/-17.83	-18.92/-18.01	-12.74/-13.33	-7.63/-9.24	-14.57/-17.94	-16.94/-13.34	-17.84/-17.11	-13.21/-16.7	-13.61/-14.53	-18.76/-19.34	-15.56/-8.73	-18.33/-11.37	-15.65/-9.43	-11.69/-15.94	-18.58/-18.59	-13.64/-15.96	-18.21/-15.35	-13.96/-14.02	-11.08/-13.17
Theta(75°)	-16.82/-19.33	-15.52/-18.91	-10.78/-11.3	-9.42/-10.49	-11.01/-19.26	-11.58/-17.61	-15.87/-15.9	-18.07/-15.79	-11.52/-7.65	-15.91/-14.6	-17.37/-14.94	-18.64/-17.82	-13.61/-15.12	-17.87/-11.94	-11.54/-17.75	-12.69/-11.62	-18.61/-10.78	-12.83/-9.98	-9.06/-11.46	-13.5/-18.04	-15.51/-11.76	-19.23/-15.33	-13.51/-13.79	-13.51/-13.79
Theta(82.5°)	-12.1/-18.24	-15.4/-18.92	-12.9/-13.18	-10.28/-14.56	-13.92/-8.67	-14.69/-18.34	-19.26/-19.19	-17.46/-18.33	-16.01/-9.02	-18.91/-17.54	-16.15/-14.5	-17.81/-15.39	-14.66/-11.61	-18.41/-16.17	-11.23/-17.76	-17.09/-18.53	-15.28/-11.6	-12.31/-13.22	-6.58/-10.68	-9.64/-11.08	-13.68/-16.06	-18.96/-10.81	-18.95/-12.63	-12.67/-11.42
Theta(90°)	-9.73/-12.78	-14.29/-18.63	-18.73/-13.35	-11.81/-14.88	-12.57/-9.26	-13.43/-11.02	-9.56/-17.65	-17.81/-19.5	-18.11/-12.26	-19.15/-14.52	-12.84/-19.18	-18.29/-15.15	-19.42/-10.3	-17.18/-17.8	-13.18/-18.57	-18.77/-16.71	-11.63/-14.1	-11.02/-10.95	-8.56/-8.37	-12.07/-11.04	-13.4/-17.18	-19.49/-11.35	-17.97/-12.53	-10.95/-15.96
Theta(97.5°)	-11.45/-11.47	-16.67/-18.06	-17.79/-10.89	-16.1/-17.93	-13.05/-10.67	-15.05/-12.41	-11.25/-18.29	-18.33/-16.62	-18.59/-16.6	-17.19/-16.29	-13.98/-18.64	-18.26/-15.98	-18.04/-8.24	-18.94/-16.52	-13.39/-17.88	-18.55/-18.13	-17.48/-18.68	-10.39/-13.42	-12.68/-8.99	-17.02/-11.97	-15.63/-19.14	-17.08/-10.69	-17.97/-15.5	-12.09/-19.3
Theta(105°)	-10.54/-13.34	-18.16/-18.75	-17.33/-10.92	-16.05/-15.76	-11.67/-14.07	-12.32/-16.78	-18.92/-17.8	-14.74/-18	-19.3/-17.12	-18.54/-18.63	-12.51/-15.15	-19.07/-17.41	-17.35/-10.79	-15.57/-17.58	-18.11/-18.78	-18.85/-11.88	-17.41/-15.6	-10.57/-17.66	-13.02/-13.02	-16.09/-15.06	-17.92/-18.17	-14.35/-14.92	-15.15/-15.66	-14.23/-18.75
Theta(112.5°)	-19.08/-18.24	-11.37/-18.65	-12.71/-15	-19.38/-15.29	-14.02/-19.19	-14.56/-14.5	-16.87/-18.12	-18.31/-18.11	-16.19/-18.75	-18.73/-18.78	-15.91/-15.2	-17.97/-18.9	-18.99/-11.9	-16.55/-17.59	-18.85/-16.25	-18.51/-18.11	-19.09/-17.93	-13.63/-18.72	-18.11/-14.14	-14.69/-14.36	-18.41/-18.52	-14.62/-15.42	-18.75/-17.9	-18.92/-19.42
Theta(120°)	-19.19/-17.57	-8.89/-17.95	-16.75/-17.98	-16.38/-14.53	-18.35/-17.69	-14.05/-18.93	-17.36/-15.03	-14.57/-18.37	-18.29/-14.17	-18.27/-18.2	-17.95/-18.83	-15.65/-19.19	-18.98/-13.95	-9.61/-18.36	-17.73/-16.07	-16.87/-13.85	-14.78/-17.59	-17.69/-13.67	-9.51/-18.51	-17.56/-19.61	-18.23/-13.08	-18.97/-17.9	-18.07/-14.34	-18.07/-14.34
Theta(127.5°)	-18.32/-11.22	-15.8/-19.27	-17.47/-17.44	-10.36/-14.26	-15.01/-18	-11.95/-17.37	-16.54/-19.3																	



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



Radiated Composite Gain Data_6G (2TX / Ant 1~2)

Appendix F

Theta (22.5°)	-12.12-14.92	-15.22-15.05	-14.05-10.61	-8.35-7.64	-7.63-6.53	-5.73-4.64	-4.97-6.44	-9.44-12.38	-11.05-10	-9.81-10.22	-11.04-10.14	-7.63-5.92	-6.17-6.88	-6.6-6.6	-6.46-6.54	-7.34-9.74	-12.65-14.68	-13.55-12.1	-11.23-13.39	-15.61-11.05	-7.8-7.25	-7.33-8.74	-10.89-11.01	-10.15-10.17																							
Theta (30°)	-12.94-12.37	-11.61-9.24	-11.11-12.58	-7.71-5.73	-6.23-7.32	-8.17-4.7	-7.98-11.01	-10.29-9.54	-6.84-4.27	-6.01-11.22	-13.41-13.37	-9.73-7.21	-8.81-7.77	-8.81-10.14	-8.74-7.89	-8.74-11.67	-15.08-12.61	-11.75-11.31	-11.22-12.46	-10.41-9.17	-7.55-9.36	-12.03-10.76	-12.54-11.69	-9.93-10.89																							
Theta (37.5°)	-13.47-9.46	-5.44-6.73	-13.42-15.51	-10.72-5.79	-3.71-3.61	-5.91-9.17	-9.94-10.17	-7.82-4	-6.86-12.07	-11.05-7.94	-7.67-6.5	-5.94-7.73	-10.55-11.08	-8.91-9.04	-12.68-15.79	-15.11-6.65	-12.83-11.3	-9.05-12.81	-14.85-11.61	-10.63-10.69	-10.9-8.79	-12.13-13.48	-10.81-12.78																								
Theta (45°)	-11.71-10.28	-6.63-6.93	-10.02-14.6	-11.38-9.16	-5.83-6.06	-7.99-12.18	-15.74-12.9	-9.09-9.37	-12.13-8.9	-12.14-10.18	-9.41-7.65	-7.32-7.61	-5.73-7.62	-9.85-12.34	-7.16-8.68	-9.41-13.22	-13.24-9.7	-10.14-10.95	-8.32-11.41	-12.37-15.22	-15.94-11.24	-13.12-14.97	-14.2-9.6	-11.85-14.8																							
Theta (52.5°)	-11.57-11.55	-8.74-9.16	-7.69-11.54	-9.79-5.48	-6.14-9.12	-12.73-11.64	-13.48-10.47	-10.71-10.2	-15.77-11.19	-7.37-10.04	-14.61-9.49	-8.59-12.52	-9.86-7.67	-10.74-15.1	-10.38-8.84	-14.75-15.9	-14.37-8.67	-9.72-12.64	-11.11-10.53	-11.38-13.32	-9.65-6.3	-7.01-10.97	-12.59-10.09	-10.88-13.36																							
Theta (60°)	-11.71-11.52	-9.15-10.48	-7.16-9.8	-9.2-2.99	-5.04-6.79	-15.74-8.63	-11.36-10.64	-8.42-9.22	-13.69-8.26	-6.96-6.25	-7.96-11.13	-10.62-15	-8.08-5.53	-7.98-10.2	-10.91-11.7	-12.26-13.97	-12.85-10	-10.71-14.99	-12.83-9.73	-11.78-11.59	-8.78-5.17	-5.12-8.02	-11.44-10.05	-9.09-10.51																							
Theta (67.5°)	-8.75-15.02	-8.5-10.99	-7.05-10.76	-9.83-2.95	-5.45-8.98	-15.19-10.52	-13.74-12.14	-6.52-8.8	-13.38-6.76	-5.64-8.95	-9.3-13.34	-13.51-10.94	-8.27-4.38	-7.97-10.6	-10.11-13.8	-13.54-11.16	-9.78-9.47	-14.13-15.59	-14.98-10.43	-11.66-12.6	-7.3-7.81	-7.59-12.9	-11.19-8.11	-11.72-8.74																							
Theta (75°)	-10.81-14.58	-10.51-12.23	-10.16-11.48	-12.13-4.15	-5.65-11.73	-15.28-9.9	-12.56-12.5	-5.22-6.37	-10.11-10.15	-8.06-9.54	-12.15-15.55	-10.23-9.09	-7.81-5.31	-6.44-9.6	-10.15-12	-15.41-8.11	-7.97-10.3	-11.99-14.85	-12.23-10.49	-13.37-14.52	-9.97-10.98	-12.92-14.04	-10.89-12.03	-14.14-7.77																							
Theta (82.5°)	-11.87-11.79	-13.59-14.63	-12.23-10.09	-14.69-7.46	-7.92-10.99	-15.9-10.22	-12.05-11.88	-6.22-6.26	-10.84-12.14	-11.73-14	-11.57-13.6	-10.42-6.97	-8.48-8.04	-6.89-11.73	-12.13-14.64	-13.68-7.92	-8.71-14.79	-11.02-13.08	-12.01-11.34	-11.24-13.36	-9.96-13.02	-12.61-11.53	-10.68-13.44	-12.54-7.52																							
Theta (90°)	-13.74-10.24	-13.02-15.64	-15.17-9.45	-14.71-11.09	-8.94-11.8	-14.49-13.46	-10.89-13.73	-9.93-7.07	-10.31-13.34	-15.64-14.19	-11.74-12.72	-11.58-6.75	-7.57-14.49	-5.67-13.84	-15.96-16.08	-15.18-10.13	-10.93-12.61	-15.04-12.37	-14-10.89	-9.88-15.09	-10.24-11.52	-12.84-9.76	-9.39-12.68	-13.35-7.74																							
Theta (97.5°)	-15.27-8.44	-15.41-14.83	-14.73-9.67	-11.26-12.9	-9.48-12.06	-13.63-14.87	-12.28-14.59	-11.83-9.14	-11.31-13.33	-13-13.86	-13.92-12.29	-10.93-7.9	-9.12-14.7	-6.56-15.59	-15.09-15.69	-15.54-13.69	-11.81-14.2	-13.37-8.43	-15.14-10.65	-14.1-13.26	-10.69-12.44	-13.37-9.31	-8.93-13.86	-12.36-8.6																							
Theta (105°)	-14.58-11.01	-14.93-14.13	-15.29-9.61	-11.31-14.14	-11.42-12.08	-9.85-15.11	-9.95-13.21	-15.74-11.71	-11.51-11.07	-11.33-13.15	-15.72-14.58	-10.14-11.59	-10.49-14.12	-13.95-15.94	-14.95-16.13	-13.4-8.04	-13.95-10.52	-15.41-15.21	-15.08-10.56	-10.65-9.37	-9.45-11.58	-13.22-9.69																									
Theta (112.5°)	-15.4-12.71	-13.45-15.76	-15.87-9.84	-11.59-11.52	-10.4-10.29	-12.53-15.33	-12.36-12.97	-14.96-12.87	-10.31-9.88	-11.82-15.23	-14.53-14.61	-10.39-13.74	-13.29-10.86	-13.15-13.71	-13.51-15.18	-12.67-15.04	-13.41-14.04	-15.12-8.63	-11.77-13.82	-13.3-14.37	-13.04-14.61	-12.26-9.22	-11.02-12.41	-12.95-10.24																							
Theta (120°)	-15.37-14.34	-12.6-15.53	-15.12-11.95	-14.02-12.86	-9.21-13.47	-10.27-12.68	-12.31-13.47	-10.32-15.15	-14.26-12.33	-12.58-11.22	-12.24-15.21	-11.91-15.15	-14.11-10.74	-9.42-14.85	-15.14-28	-10.54-13.3	-6.85-10.94	-11.65-8.63	-13.12-15.26	-14.52-14.74	-12.22-9.26	-10.42-12.06	-13.88-12.8																								
Theta (127.5°)	-14.24-15.67	-16.05-15.93	-14.26-11.12	-14.77-15.35	-12.66-14.02	-11.13-10.34	-14.98-11.29	-12.75-13.73	-15.43-14.3	-6.3-7.73	-10.53-14.12	-8.81-14.36	-10.43-11.15	-10.02-13.84	-11.22-12.08	-13.06-9.64	-12.19-9.64	-5.86-16.33	-12.53-8.8	-12.57-11.36	-15.14-15.5	-9.46-11.82	-10.78-13.43	-13.49-13.13																							
Theta (135°)	-13.08-13.91	-14.37-15.06	-14.66-12.98	-10.72-11.5	-15.39-14.09	-10.86-8.37	-9.43-9.6	-10.75-11.11	-11.71-14.85	-12.53-13.01	-10.26-8.49	-7.38-12.5	-7.17-13.07	-13.92-15.01	-11.39-7.24	-11.04-7.44	-8.39-6.85	-10.49-10.03	-14.71-7.61	-7.92-12.58	-9.97-14.21	-10.93-6.79	-7.1-12.94	-12.42-10.61																							
Theta (142.5°)	-10.94-10.73	-10.27-14.7	-10.99-11.56	-15.55-14.68	-12.94-13.4	-11.15-12.43	-14.59-15.26	-15.13-12.07	-11.85-9.72	-10.26-11.3	-8.72-14.56	-11.71-10.83	-10.94-11.6	-15.42-11.72	-10.95-9.25	-11.89-9.7	-13.81-11.28	-10.75-15.15	-11.88-9.41	-8.93-12.76	-15.07-10.06	-9.54-17.6	-10.69-11.43	-8.61-12																							
Theta (150°)	-13.13-15.73	-11.83-10.95	-10.04-8.8	-9.01-11.45	-13.71-15.71	-11.69-8.44	-8.57-12.8	-10.72-10.13	-10.87-11.81	-11.02-9.11	-12.11-9.85	-8.52-9.93	-9.68-6.71	-10.57-12.57	-13.68-12.57	-10.77-11.17	-15.22-11.31	-10.54-12.26	-12.86-12.76	-11.11-11.41	-11.42-15.74	-12.9-14.49	-13.35-10.41																								
Theta (157.5°)	-13.64-15.54	-15.22-15.13	-15.03-13.74	-8.81-8.05	-10.79-9.86	-9.37-8.98	-9.53-11.12	-9.72-10.23	-11.41-15.2	-9.5-8.92	-11.96-9.51	-11.15-10.57	-12.81-8.18	-6.09-10.31	-12.63-10.49	-14.79-15.45	-11.23-15.86	-14.8-12.86	-13.11-14.7	-15.45-12.61	-9.57-9.95	-11.38-12.23	-14.71-15.44	-14.22-12.12																							
Theta (165°)	-13.37-14.93	-14.31-15.16	-15.24-14.82	-12.37-10.99	-11.12-13.01	-15.28-13.41	-13.07-14.9	-15.22-13.2	-10.33-9.43	-10.09-13.59	-11.83-9.04	-9.97-10.81	-12.78-12.69	-9.28-9.02	-12.16-15.8	-10.29-7.71	-9.92-10.87	-11.25-13.34	-15.29-15.03	-14.71-13.85	-12.44-9.49	-8.69-9.31	-10.1-10.41	-11.61-12.62																							
Theta (172.5°)	-11.86-11.93	-12.22-14.36	-16.18-15.96	-14.89-14.74	-14.32-15.17	-15.48-16.04	-15.41-13.97	-13.42-11.41	-10.06-9.56	-9.16-9.99	-12.15-12.7	-15.5-14.84	-13.82-13.23	-12.78-13.85	-13.94-13.94	-12.87-13.87	-12.22-10.92	-11.98-11.49	-10.86-11.17	-10.72-10.79	-9.81-8.63	-8.26-9.46	-9.49-10.1	-10.98-11.12																							
Theta (180°)	-13.23-13.5	-14.21-14.95	-15.69-14.38	-15.59-15.33	-14.85-15.44	-15.93-14.1	-12.15-12.23	-12.88-12.69	-13.08-12.5	-12.76-13.7	-14.87-16.04	-15.88-14.06	-14.34-14.71	-14.51-14.75	-15.11-15.45	-14.82-14.7	-14.34-14.22	-14.86-15.73	-15.51-15.27	-15.34-15.19	-15.15-15.94	-15.08-15.27	-13.67-13.51	-13.51-12.77																							
Freq (Hz)	6.985Pol	Theta	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi	Phi																							
DG (dB)	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°)	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 (0°)	-8.37-8.67	-8.92-8.92	-8.45-8.66	-8.56-8.24	-8.31-8.85	-9.05-7.82	-8.86-7.09	-7.34-9.86	-5.63-5.24	-5.33-5.19	-4.99-5.08	-5.39-5.67	-5.81-6.39	-6.84-7	-8.07-9.1	-9.43-9.28	-9.7-9.39	-8.81-8.74	-8.13-8.16	-7.57-6.63	-6.66-6.96	-7.42-7.37	-8.31-8.28	-8.27-8.12																							
Theta (7.5°)	-5.61-5.3	-4.78-5.07	-5.81-6.63	-7.35-7.53	-7.98-6.63	-9.26-7.83	-8.45-8.54	-8.89-8.33	-8.4-8.65	-9.46-10.65	-11.32-11.21	-12.57-12	-11.82-9.93	-8.05-8.69	-6.41-6.56	-6.84-6.12	-6.73-6.71	-8.23-7.94	-7.87-7.69	-6.76-6.72	-6.56-6.68	-6.27-6.05	-6.48-5.85	-5.95-6.03																							
Theta (15°)	-3.22-2.88	-2.86-3.02	-3.22-3.98	-4.71-4.2	-3.47-3.16	-3.74-4.9	-5.95-6.87	-7.41-7.46	-7.07-8.03	-10.45-10.65	-9.62-10.91	-12.26-11.72	-9.37-9.58	-6.52-6.78	-7.71-7.74	-8.37-8.1	-8.06-9.01	-8.59-8.65	-10.83-12.26	-13.16-10.82	-8.91-9.66	-10.87-5.75	-3.99-3.68	-3.56-3.18																							
Theta (22.5°)	-8.02-7.97	-8.26-8.27	-6.96-5.36	-3.68-2.95	-3.85-4.08	-3.89-3.86	-4.53-6.74	-8.44-8.53	-8.11-8.98	-9.67-11.47	-13.75-13.84	-13.85-11.16	-8.79-8.67	-8.95-10.1	-10.46-9.7	-9.21-8.85	-8.15-7.08	-8.86-5.48	-4.58-4.16	-3.4-3.08	-3.03-3.63	-4.65-5.58	-5.19-5.05	-5.97-7.42																							
Theta (30°)	-6.58-8.4	-8.32-7.46	-6.07-3.46	-1.750-0.9	0.43-1.44	-4.93-4.4	-2.96-3.24	-3.72-2.45	-1.81-3.35	-6.13-8.45	-10.81-9.96	-5.36-3.6	-3.06-3.16	-5.66-9.06	-8.32-8.03	-11.47-11.67	-9.55-8.69	-6.83-5.52	-4.31-2.27	-0.20-0.75	1.451-4	-0.04-2.83	-5.53-4.81	-4.33-4.87																							
Theta (37.5°)	-0.72-1.29	-4.19-4.12	-2.63-2.95	-3.47-1.8	0.27-0.08	-1.81-2.85	-2.95-5.01	-6.27-5.51	-4.22-3.58	-2.97-4.2	-2.91-2.72	-2.85-1.5	-3.95-1.91	0.64-0.51	-6.48-10.64	-9.26-8.62	-5.99-3.67	-1.170-9.8	1.60-95	-0.58-1.07	-0.02-2.1	1.51-61	2.23-61																								
Theta (45°)	1.74-1.81	-0.75-4.06	-4.07-4.82	-3.3-3.5	-0.66-1.33	0.82-1.04	-0.64-0.43	-2.04-4.23	-3.8-4	-2.640-59	2.071-43	-0.66-1.55	-1.92-4.41	-0.770-44	2.39-92	3.44-1.74	0.02-1.51	-2.35-0.2	2.37-55	3.04-66	1.88-33	0.05-0	2.3-05	1.69-65																							
Theta (52.5°)	6.18-5.35	2.54-0.09	1.77-0.59	-2.51-0.97	0.632-36	2.060-93	0.251-0.8	2.08-2.4	2.833-19	3.433-46	4.253-44	1.36-0.96	-1.67-1.48	-0.820-79	2.823-81	1.791-32	1.78-0.6	-2.41-1.03	3.594-08	3.864-18	4.844-09	3.542-89	3.24-59	5.846-68																							
Theta (60°)	7.476-86	4.683-51	4.882-72	1.933-03	2.52-4	3.152-72	1.941-99	2.36-4	4.994-95	4.913-87	2.451-81	2.061-1	-1.91-1.1	-1.081-39	2.23-86	3.020-79	0.61-1.75	-3.06-1.02	1.782-79	4.354-73	5.374-86	5.375-02	4.495-6																								



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 15 degrees. Includes sub-sections for 5.2GPol and 5.3GPol.



Antenna Pattern_2G5G

Appendix G

θ (°)	1.45/1.42	1.68/2.03	5.07/2.42	-0.26/-1.27	-3.78/-4.96	-0.33/-2.67	-5.85/-1.67	0.72/-0.07	-4.67/-4.79	-4.02/-3.24	-1.45/0.07	1.04/0.61	1.30/0.06	1.83/1.42	1.73/0.49	-0.18/-1.40	-0.90/0.71	1.79/2.42	2.43/1.18	-1.72/2.95	-1.90/0.51	-0.72/-2.75	-0.22/-1.12		
φ (75°)	1.99/2.06	1.13/1.65	4.15/1.34	-1.00/-1.16	-4.85/-3.99	-0.03/-2.62	-2.84/-0.95	-0.47/-1.86	-4.84/-5.46	-4.39/-2.16	-3.19/-2.22	0.02/-5.90	-0.89/0.14	1.19/-0.86	1.57/0.12	1.57/0.54	-0.98/-4.12	-3.40/0.61	2.53/3.79	4.12/2.48	-0.10/-0.36	0.36/-0.78	-3.15/-3.41	-0.33/0.52	
φ (82.5°)	1.54/2.54	0.94/0.82	2.69/0.80	-0.94/-1.97	-5.16/-2.96	-0.03/-2.76	-1.32/-1.60	-1.92/-3.99	-5.15/-5.97	-5.12/-1.53	-2.35/-3.80	-0.71/-1.13	1.64/2.49	1.70/0.26	0.64/0.20	-2.28/-5.10	-2.72/-0.39	2.12/8.81	5.03/0.21	-1.14/0.91	-0.79/-1.39	-7.33/-6.92	-1.07/0.21		
φ (90°)	0.50/1.68	-0.05/0.80	0.62/2.75	-1.32/-3.74	-4.76/-3.06	0.04/2.76	-1.54/-3.99	-2.31/-2.99	-5.47/-4.67	-7.78/-2.60	-2.92/-3.27	-2.39/-3.00	-2.44/-1.92	1.21/1.33	-1.06/-1.28	-0.26/-0.35	-2.99/-4.68	-3.72/-1.28	1.60/3.35	4.87/2.66	-1.99/-2.19	-1.74/-3.31	-14.64/-9.93	-1.84/-1.69	
φ (97.5°)	-0.99/0.64	-1.24/0.07	-1.16/-4.39	-1.74/-6.39	-4.36/-3.33	-1.45/-4.10	-3.23/-5.53	-3.28/-3.88	-5.05/-5.14	-6.47/-3.62	-3.76/-4.20	-2.10/-4.54	-3.51/-2.95	-0.14/-2.54	-0.93/-3.66	-1.74/-1.44	-3.35/-4.58	-4.83/-3.33	-1.10/0.64	3.25/1.35	-1.61/-4.85	-4.20/-7.67	-12.06/-8.88	-3.04/-2.22	
φ (105°)	-2.22/2.87	-2.43/2.81	-3.21/5.82	-2.04/-8.82	-5.10/-3.41	-3.51/-4.32	-4.15/-6.94	-6.70/-4.59	-5.54/-6.33	-4.27/-6.20	-4.30/-4.99	-5.07/-5.01	0.18/-2.99	-2.01/-3.52	-3.88/-3.96	-4.23/-5.46	-2.59/-3.46	-0.56/-1.48	-1.89/-1.81	-5.53/-14.34	-9.60/-10.30	-3.35/-2.67			
φ (112.5°)	-5.10/-4.60	-6.32/-4.31	-5.78/-7.58	-3.51/-10.90	-6.25/-3.59	-4.55/-4.17	-5.94/-8.94	-7.26/-5.90	-7.40/-9.89	-9.79/-4.56	-4.71/-8.58	-3.42/-6.17	-4.43/-5.86	-1.92/-3.46	-5.21/-6.30	-5.10/-3.74	-4.98/-3.52	-9.44/-4.54	-6.02/-12.11	-8.11/-4.21	-4.71/-7.75	-11.14/-13.87	-8.03/-9.75	-4.32/-5.34	
φ (120°)	-7.78/-10.22	-7.34/-7.61	-9.17/-10.25	-5.29/-12.17	-7.76/-4.19	-5.13/-4.61	-6.19/-13.49	-8.93/-6.25	-6.99/-13.08	-9.60/-4.76	-5.42/-7.02	-5.80/-6.65	-3.18/-6.38	-5.21/-4.17	-4.48/-7.64	-7.09/-5.14	-3.56/-8.70	-10.77/-3.43	-4.40/-5.31	-8.81/-2.98	-2.43/-4.50	-15.72/-15.01	-9.47/-11.46	-6.49/-8.01	
φ (127.5°)	-15.16/-9.24	-11.30/-9.74	-11.14/-8.37	-9.70/-12.72	-7.19/-6.89	-8.11/-6.02	-4.86/-10.54	-12.45/-6.26	-6.29/-6.82	-6.55/-6.72	-6.86/-5.39	-4.59/-11.16	-4.59/-11.16	-5.00/-7.12	-5.62/-4.31	-6.15/-8.31	-4.90/-9.99	-8.70/-14.02	-6.78/-8.72	-11.43/-2.49	-2.31/-13.43	-15.72/-15.55	-7.44/-14.45	-9.76/-15.17	
φ (135°)	-13.95/-10.39	-10.14/-14.20	-8.62/-5.97	-9.26/-14.47	-6.23/-5.36	-8.78/-8.39	-7.23/-11.35	-15.05/-10.38	-9.19/-8.88	-9.89/-9.96	-9.65/-7.54	-8.31/-13.07	-8.02/-10.57	-11.34/-7.30	-4.72/-7.30	-8.72/-10.42	-9.49/-4.99	-11.61/-8.30	-10.17/-10.02	-9.01/-9.63	-7.75/-13.11	-12.35/-12.85	-9.06/-15.73	-14.40/-13.18	
φ (142.5°)	-13.20/-10.22	-12.60/-11.04	-7.23/-7.70	-15.72/-9.63	-5.53/-5.16	-9.46/-9.21	-6.90/-8.95	-12.80/-14.49	-10.89/-8.85	-7.50/-5.82	-6.30/-7.73	-9.07/-8.93	-9.49/-5.66	-7.27/-11.16	-12.26/-9.95	-7.94/-8.55	-9.33/-8.73	-9.84/-14.59	-15.58/-10.40	-13.62/-11.36	-12.33/-11.08	-12.89/-13.80	-12.06/-11.80	-10.73/-11.37	
φ (150°)	-15.41/-15.20	-10.01/-10.33	-15.02/-10.76	-7.57/-5.01	-5.80/-9.22	-12.42/-12.12	-9.83/-9.19	-13.20/-10.34	-10.67/-9.05	-8.55/-8.15	-5.06/-4.58	-7.06/-10.40	-14.27/-9.89	-10.71/-8.64	-9.23/-12.64	-13.65/-14.89	-12.07/-14.97	-11.46/-10.90	-15.54/-12.68	-10.72/-10.78	-12.32/-12.33	-15.16/-13.27	-12.22/-13.08		
φ (157.5°)	-13.39/-12.55	-8.85/-7.41	-8.58/-9.07	-7.76/-7.45	-7.97/-11.77	-15.23/-13.49	-9.99/-8.42	-9.63/-8.42	-9.49/-11.06	-12.96/-14.88	-11.94/-11.12	-11.56/-12.51	-8.92/-7.82	-9.12/-11.74	-9.77/-11.03	-15.62/-15.44	-14.08/-10.95	-10.78/-12.79	-12.86/-11.09	-9.02/-8.31	-9.04/-12.65	-15.58/-13.42	-9.35/-7.71	-9.17/-12.70	
φ (165°)	-10.73/-8.38	-8.03/-8.55	-10.32/-13.10	-12.96/-11.51	-10.63/-10.08	-10.89/-10.77	-9.34/-7.98	-8.23/-8.20	-9.34/-7.80	-7.99/-6.52	-10.55/-10.93	-10.65/-8.86	-7.77/-8.51	-10.77/-12.82	-11.88/-13.99	-15.53/-15.43	-15.22/-15.81	-15.33/-14.61	-12.20/-10.60	-10.35/-8.47	-8.03/-6.77	-6.42/-7.65	-8.80/-10.99		
φ (172.5°)	-9.99/-10.27	-10.85/-10.25	-10.20/-11.36	-13.16/-14.60	-14.78/-15.32	-16.35/-15.27	-15.31/-14.18	-15.53/-15.95	-15.24/-14.80	-13.96/-10.62	-8.26/-7.78	-7.75/-6.45	-6.29/-7.65	-9.23/-11.28	-12.87/-14.42	-15.26/-14.86	-15.83/-15.23	-13.50/-10.87	-9.33/-9.91	-10.15/-8.28	-8.13/-8.37	-9.89/-10.63	-9.33/-8.95		
φ (180°)	-13.21/-14.15	-15.59/-15.47	-16.03/-13.76	-14.74/-15.26	-15.28/-15.63	-15.46/-15.26	-16.10/-14.87	-15.35/-13.29	-12.47/-11.81	-11.79/-11.18	-11.15/-12.28	-13.71/-15.82	-14.96/-15.22	-15.23/-14.78	-13.88/-13.33	-13.54/-15.42	-15.29/-15.37	-15.32/-14.64	-14.67/-13.81	-14.05/-14.22	-14.24/-14.59	-12.95/-11.90	-13.20/-12.60	-11.15/-11.41	
Freq(Hz)	5.785GPol.	TotalAnt. 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	φ(75°)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°)	
φ(0°)	-6.30/-6.11	-6.13/-6.89	-6.95/-6.24	-6.18/-6.20	-6.83/-6.48	-6.65/-6.16	-7.05/-6.56	-7.51/-7.04	-6.00/-7.98	-6.92/-7.18	-7.42/-7.41	-8.09/-7.23	-6.27/-6.49	-7.01/-7.05	-6.93/-6.82	-6.85/-6.78	-6.78/-6.53	-6.95/-6.13	-6.23/-6.56	-5.05/-6.22	-6.43/-5.14	-5.79/-5.44	-5.25/-5.90	-5.83/-6.07	
φ(7.5°)	-7.91/-7.84	-8.78/-8.95	-8.08/-7.11	-7.13/-6.88	-6.92/-6.55	-6.85/-6.04	-4.81/-5.97	-5.00/-6.43	-4.32/-4.31	-4.47/-4.33	-4.74/-4.98	-5.20/-4.99	-4.81/-5.04	-5.30/-5.50	-5.83/-6.23	-6.49/-6.68	-6.62/-7.11	-8.01/-7.18	-7.59/-7.70	-8.32/-7.91	-8.58/-9.81	-9.00/-9.66	-9.65/-9.82	-9.16/-8.81	
φ(15°)	-9.77/-9.11	-9.77/-9.11	-6.62/-6.22	-6.76/-7.23	-7.86/-7.20	-8.65/-8.20	-4.00/-4.21	-4.11/-3.89	-3.82/-4.64	-3.59/-4.15	-4.34/-4.55	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	-4.38/-3.88	-5.21/-4.99	
φ(22.5°)	-3.99/-4.08	-3.88/-3.48	-3.48/-4.07	-5.39/-6.47	-6.21/-6.23	-7.20/-7.15	-6.67/-6.36	-4.82/-2.66	-3.43/-3.62	-5.10/-7.25	-6.43/-6.16	-4.84/-3.54	-2.83/-2.68	-3.75/-4.07	-3.80/-3.52	-3.61/-3.67	-3.14/-2.65	-1.99/-1.70	-1.59/-2.40	-2.57/-2.30	-3.24/-2.67	-2.59/-2.05	-1.92/-2.39	-2.86/-3.38	
φ(30°)	-1.58/-1.92	-1.53/-2.08	-0.84/-3.10	-7.02/-7.84	-6.51/-6.61	-7.88/-6.73	-6.47/-8.02	-6.19/-4.59	-3.73/-3.37	-5.06/-6.67	-9.74/-8.45	-6.32/-4.57	-3.29/-3.50	-3.41/-3.66	-4.21/-4.03	-2.94/-2.15	-2.21/-2.35	0.18/-0.39	1.03/-0.40	-0.09/0.91	0.60/0.31	-0.47/-1.18	-2.73/-2.39		
φ(37.5°)	-2.33/-2.77	-0.67/0.69	0.17/-2.00	-4.09/-7.28	-0.86/-6.05	-3.49/-4.32	-6.62/-7.88	-7.26/-6.43	-4.06/-3.88	-3.61/-7.54	-7.18/-7.06	-6.32/-7.50	-4.32/-7.70	-1.27/-2.78	-1.09/-1.69	-1.16/-1.42	0.59/1.90	2.50/2.66	2.54/2.05	0.59/0.49	-0.86/-1.15	-1.09/-1.69			
φ(45°)	-1.25/-0.76	-2.30/-0.71	1.42/0.11	-1.87/-5.16	-4.06/-2.90	-2.02/-3.03	-5.10/-3.88	-3.15/-5.28	-5.18/-3.68	-2.93/-2.78	-0.70/-0.50	-1.46/-1.42	-2.87/-1.62	0.26/0.58	-2.70/-3.59	-1.55/-1.15	-1.99/-1.48	0.50/1.85	1.79/2.30	3.62/4.73	5.37/5.04	3.51/1.21	-1.08/-0.55	0.21/0.62	
φ(52.5°)	-1.28/0.18	-1.36/0.12	2.70/0.98	-1.67/-3.48	-1.47/-4.37	-3.49/-1.05	-2.83/-2.75	-1.28/-2.54	-1.63/-5.70	-4.47/-3.79	-1.04/-1.69	1.23/0.71	1.16/1.10	-0.52/-0.87	-1.72/-2.05	-1.06/-0.05	2.25/2.96	3.54/4.05	3.73/2.75	2.72/2.93	2.38/1.77	0.11/0.90	0.07/0.71		
φ(60°)	-1.73/-0.29	0.34/1.83	3.50/0.37	-1.63/-2.01	-3.60/-4.88	-1.47/-0.31	-4.03/-2.50	-0.40/-2.37	-5.92/-4.12	-4.53/-3.00	-1.63/0.97	1.27/1.25	0.39/0.62	1.94/1.33	1.34/0.37	-1.57/0.05	-0.22/1.29	2.47/2.28	2.09/1.16	1.73/-1.54	-3.12/-2.92	2.38/1.77	-0.62/-0.18	-4.01/-2.85	-1.33/-0.41
φ(67.5°)	-0.51/0.44	1.08/2.98	3.91/2.17	-2.01/-1.93	-4.45/-1.90	-0.13/-1.32	-4.27/-2.65	-1.71/-4.41	-7.05/-6.25	-5.81/-3.04	-3.00/-0.21	1.02/0.37	-0.03/-1.61	2.25/1.22	1.47/0.44	-2.01/-0.85	0.06/1.09	1.80/2.09	1.27/1.69	-0.52/-1.30	-2.83/-3.41	-0.89/-1.43	0.41/-2.91	-2.38/-1.05	
φ(75°)	1.03/1.61	1.19/3.18	3.78/2.46	-2.02/-3.30	-4.40/-8.89	-1.04/-1.06	-1.80/-2.91	-4.73/-4.80	-6.46/-9.61	-8.71/-8.71	1.25/0.82	-0.69/0.51	2.63/2.04	0.32/0.01	-1.99/-2.01	-1.11/0.45	1.63/2.25	1.63/1.83	0.02/0.87	-1.83/-1.86	-0.14/0.14	-0.72/-2.78	-1.93/-2.00		
φ(82.5°)	1.78/1.61	1.33/3.09	2.53/-3.23	-2.89/-4.70	-3.00/-0.77	-1.87/-1.87	-2.08/-4.01	-4.18/-4.41	-6.19/-8.54	-11.07/-5.33	-1.81/-1.87	1.44/0.60	-1.11/0.53	2.12/1.33	-0.85/-1.61	-0.49/-3.33	-3.60/1.11	1.07/1.60	2.90/1.69	0.06/-0.89	-3.91/-4.40	-0.82/-0.18	-4.01/-2.85	-1.33/-0.41	
φ(90°)	1.26/0.86	0.96/2.76	0.82/-5.27	-3.95/-5.60	-2.73/-0.53	-1.74/-1.99	-2.79/-7.67	-4.81/-4.41	-8.36/-10.64	-12.64/-5.59	-2.93/-3.30	2.08/0.69	-1.14/-1.71	-0.02/0.20	-0.02/-3.61	-0.73/-3.18	-4.45/-0.10	-0.05/0.17	1.95/1.26	1.50/0.96	-5.39/-2.68	-1.62/-2.27	-6.06/-3.41	-1.03/-1.13	
φ(97.5°)	-0.67/0.53	-0.57/-1.61	-1.50/-5.68	-4.46/-5.93	-2.66/-1.34	-2.59/-1.34	-3.27/-8.22	-7.05/-5.39	-10.89/-13.82	-12.02/-5.38	-3.42/-4.74	-1.40/-1.05	-3.87/-3.17	-0.96/0.90	-2.56/-4.69	-1.64/-2.42	-4.54/-1.99	2.21/-1.20	-0.35/-1.58	1.24/0.07	-7.36/-5.25	-3.48/-3.76	-7.31/-3.31	-0.57/-2.16	
φ(105°)	-1.78/-2.75	-1.16/-0.1																							



Antenna Pattern_2G5G

Appendix G

Theta (°)	Phi (°)	Gain (dBi)	Phi(0°)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°)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 (112.5°)	Phi(5°)	5.23/6.33	-9.28/-15.38	-13.98/-13.63	-8.14/-5.11	-5.61/-3.61	-4.13/-4.61	-4.34/-7.73	-8.55/-4.46	-4.92/-2.10	-1.27/-3.09	-8.71/-5.37	-4.19/-6.29	-5.56/-6.53	-6.15/-11.87	-8.81/-6.54	-6.47/-6.21	-8.16/-6.02	-7.37/-11.21	-3.86/-6.07	-15.36/-8.15	-6.62/-5.82	-6.79/-9.85	-9.74/-4.06	-1.60/-4.08	
Theta (120°)	Phi(7.5°)	4.69/-5.60	-6.76/-7.72	-10.22/-11.40	-9.23/-9.00	-6.85/-7.50	-5.58/-5.57	-4.55/-4.41	-4.91/-4.16	-5.86/-7.52	-5.98/-4.74	-8.39/-9.60	-7.23/-12.59	-8.37/-8.70	-6.67/-8.10	-12.19/-10.02	-14.04/-6.63	-8.03/-4.00	-8.76/-11.01	-5.00/-7.49	-10.27/-7.31	-4.98/-4.11	-8.36/-12.53	-11.51/-5.84	-2.89/-3.62	
Theta (127.5°)	Phi(10°)	6.42/-7.59	-8.85/-1.55	-9.74/-9.18	-7.23/-9.00	-7.11/-7.74	-10.77/-12.39	-9.87/-7.83	-6.09/-4.40	-5.64/-10.75	-14.29/-12.85	-14.22/-9.67	-7.75/-15.98	-10.77/-8.52	-13.91/-14.73	-14.56/-10.86	-10.62/-9.60	-7.06/-10.99	-11.97/-12.06	-3.93/-4.47	-7.30/-9.57	-13.01/-9.26	-7.28/-5.45	-13.01/-9.26	-7.28/-5.45	
Theta (135°)	Phi(15°)	8.12/-8.03	-5.52/-6.33	-8.19/-12.41	-12.01/-8.66	-6.18/-5.48	-7.97/-9.90	-7.62/-8.91	-10.80/-10.57	-10.70/-9.06	-8.08/-14.67	-15.26/-12.74	-14.79/-15.29	-13.71/-8.41	-6.53/-7.04	-13.38/-9.73	-7.54/-8.27	-3.43/-6.52	-13.09/-13.64	-10.06/-12.41	-11.17/-13.30	-6.84/-5.53	-8.58/-9.59	-10.96/-11.42	-10.81/-9.76	
Theta (142.5°)	Phi(17.5°)	-14.48/-12.93	-14.17/-13.13	-10.71/-10.09	-8.89/-8.20	-10.50/-9.11	-9.37/-8.64	-5.88/-5.84	-9.11/-8.78	-9.66/-14.14	-8.71/-7.77	-12.44/-11.39	-15.39/-13.11	-12.15/-15.92	-10.67/-11.19	-13.06/-9.56	-10.62/-7.90	-5.82/-8.06	-14.12/-10.84	-14.56/-10.84	-6.51/-6.55	-15.12/-12.33	-10.95/-10.63	-9.62/-10.79	-11.62/-9.40	-8.46/-9.62
Theta (150°)	Phi(20°)	-11.08/-6.60	-10.70/-12.52	-11.10/-10.24	-10.06/-13.53	-12.60/-7.66	-8.05/-10.25	-6.95/-6.16	-8.38/-8.82	-9.24/-13.20	-14.39/-13.80	-13.40/-12.08	-15.19/-15.83	-13.99/-12.79	-15.16/-15.21	-10.67/-8.95	-14.52/-11.63	-13.91/-14.73	-14.56/-10.86	-8.08/-9.40	-12.56/-14.71	-14.52/-13.10	-12.90/-14.81	-15.77/-15.18	-15.38/-15.23	
Theta (157.5°)	Phi(22.5°)	-13.58/-10.69	-9.89/-10.90	-12.81/-12.68	-13.09/-15.50	-12.20/-9.56	-9.00/-9.49	-10.25/-10.71	-14.86/-16.01	-11.55/-11.43	-13.85/-16.32	-11.56/-9.52	-10.06/-10.08	-8.88/-7.99	-8.98/-12.33	-15.22/-14.96	-15.43/-12.35	-12.28/-14.56	-13.86/-13.58	-13.81/-15.12	-10.94/-9.58	-9.19/-9.72	-9.79/-8.90	-8.37/-8.84	-10.34/-12.41	
Theta (165°)	Phi(25°)	-15.80/-14.59	-15.84/-15.51	-12.56/-11.38	-11.06/-11.35	-11.45/-10.05	-8.14/-8.01	-8.20/-8.80	-10.86/-11.97	-11.35/-10.73	-11.46/-12.54	-13.21/-13.50	-11.81/-11.66	-12.91/-14.21	-15.05/-13.99	-12.26/-11.48	-11.23/-12.18	-12.48/-13.26	-12.37/-10.19	-8.63/-8.06	-8.09/-9.18	-11.22/-14.17	-15.38/-14.67	-12.63/-11.84	-11.85/-14.84	
Theta (172.5°)	Phi(27.5°)	-13.95/-15.31	-15.45/-14.45	-12.51/-11.49	-11.26/-10.72	-10.60/-10.59	-12.42/-13.26	-13.79/-13.88	-13.69/-13.28	-12.79/-12.39	-13.51/-15.68	-15.85/-15.23	-15.41/-15.24	-14.99/-14.11	-13.95/-13.77	-13.66/-15.92	-16.46/-15.84	-15.33/-15.67	-15.17/-15.74	-15.58/-15.87	-14.65/-14.28	-13.83/-14.12	-13.83/-12.81	-11.93/-12.99		
Theta (180°)	Phi(30°)	-13.93/-13.54	-13.24/-13.46	-12.80/-14.79	-15.21/-15.55	-15.59/-15.31	-14.61/-15.55	-15.42/-15.67	-15.15/-14.96	-14.89/-14.50	-14.85/-15.36	-15.38/-15.07	-15.76/-15.04	-15.43/-15.06	-15.03/-15.16	-14.78/-14.27	-14.39/-15.62	-15.60/-14.55	-13.40/-12.40	-12.26/-11.88	-12.19/-12.27	-12.48/-12.47	-13.11/-14.33	-14.21/-13.00	-12.32/-13.40	
Gain	Phi(0°)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°)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°)		
Gain	6.00/-5.71	-6.10/-4.68	-6.32/-6.48	-6.64/-6.43	-6.05/-6.02	-6.03/-5.93	-6.11/-5.34	-5.50/-5.07	-5.01/-4.65	-4.23/-4.47	-4.47/-4.56	-4.87/-4.87	-4.53/-4.53	-4.63/-4.47	-4.58/-4.55	-4.45/-4.58	-4.74/-4.80	-4.88/-5.05	-4.93/-5.16	-4.81/-4.82	-5.02/-4.96	-4.81/-5.03	-5.70/-5.92	-6.64/-6.70		
Theta (7.5°)	4.11/-4.01	-3.82/-3.88	-3.83/-3.54	-4.19/-3.90	-3.83/-3.84	-4.07/-4.46	-4.91/-4.99	-5.35/-5.56	-5.91/-5.79	-6.12/-7.00	-7.11/-8.16	-8.63/-9.05	-8.98/-9.25	-9.96/-9.78	-9.39/-8.64	-7.25/-6.08	-5.72/-6.32	-6.76/-6.25	-5.45/-5.04	-4.35/-4.07	-4.66/-4.56	-4.65/-4.73	-4.88/-4.90	-4.83/-4.53		
Theta (15°)	-5.53/-5.34	-4.47/-3.88	-2.67/-1.27	-0.81/-0.39	-0.33/-0.45	-0.99/-1.73	-2.25/-3.17	-4.17/-5.78	-7.87/-9.37	-10.51/-9.67	-9.24/-9.67	-10.76/-12.03	-12.46/-12.33	-12.69/-11.48	-8.94/-7.45	-5.72/-4.48	-4.04/-4.27	-5.04/-5.45	-5.84/-6.26	-6.17/-6.06	-6.91/-6.99	-9.11/-7.93	-7.43/-6.60	-5.67/-5.52		
Theta (22.5°)	-5.60/-5.46	-4.64/-3.07	-1.0105/0.4	1.0909/0.1	0.4702/0.2	-0.49/0.90	-1.09/-1.12	-1.15/-1.77	-3.46/-5.30	-6.79/-7.15	-7.27/-8.46	-11.11/-11.33	-10.05/-8.91	-9.13/-9.23	-8.62/-7.24	-6.33/-6.20	-6.18/-6.73	-7.22/-7.01	-5.88/-4.42	-3.50/-3.30	-3.55/-4.00	-4.60/-5.48	-5.97/-5.67	-4.63/-4.86		
Theta (30°)	-4.97/-4.43	-3.29/-1.09	1.192/0.7	3.072/2.4	1.580/5.9	-0.29/-0.45	-0.80/-0.37	0.37/0.05	-1.12/-3.22	-5.45/-4.51	-4.43/-4.91	-7.24/-10.88	-9.60/-7.15	-6.63/-6.33	-11.49/-11.10	-9.47/-8.74	-6.61/-6.77	-9.84/-10.47	-8.63/-6.34	-4.66/-2.72	-1.10/-4.09	-0.80/-1.30	-2.25/-2.95	-3.53/-4.47		
Theta (37.5°)	-1.86/-1.65	-1.78/-2.06	2.03/0.31	3.202/9.0	2.281/3.4	0.941/2.4	1.571/2.9	0.55/-0.51	-1.74/-2.93	-3.93/-4.19	-3.50/-3.67	-5.70/-5.84	-5.93/-4.72	-10.86/-13.03	-9.19/-6.75	-5.49/-7.16	-8.96/-8.46	-4.58/-3.89	-1.710/2.9	-1.710/2.9	-1.710/2.9	-1.710/2.9	-1.710/2.9	-1.710/2.9		
Theta (45°)	1.17/-0.07	-1.36/-0.55	0.821/1.1	1.982/5.6	2.211/7.2	2.793/8.4	3.461/6.9	-0.97/-3.29	-3.84/-4.21	-2.57/-1.52	-1.10/-2.00	-6.11/-11.25	-6.21/-3.70	4.05/-4.34	-4.47/-7.25	-4.73/-2.21	-2.98/-6.36	-9.99/-9.85	-8.24/-3.15	-1.20/-2.34	-3.67/-1.54	0.06/-0.23	-0.37/-0.41	-0.380/9.2		
Theta (52.5°)	3.01/0.3	-1.35/-1.69	-0.45/-1.00	2.232/8.8	2.222/1.1	3.674/9.8	4.762/7.0	-0.04/-0.65	0.33/-0.87	-1.370/1.1	0.77/-0.82	-5.88/-16.06	-7.84/-4.48	-3.18/-1.62	-1.51/-7.55	-6.88/-2.22	-2.34/-3.75	-5.16/-6.98	-7.91/-6.01	-3.05/-3.03	-5.13/-2.62	0.75/-0.63	0.19/-1.31	3.024/1.7		
Theta (60°)	2.19/-0.27	-0.23/-1.77	-0.43/0.98	3.193/5.2	1.44/-0.80	2.052/7.9	1.603/4.5	-0.90/-2.74	-0.36/-1.07	-0.520/7.6	2.241/0.4	-3.26/-9.75	-2.96/-7.60	-2.26/-0.04	-2.99/-3.84	-1.99/-3.64	-2.56/-2.37	-1.99/-3.64	-2.56/-2.37	-1.99/-3.64	-2.56/-2.37	-1.99/-3.64	-2.56/-2.37	-1.99/-3.64	-2.56/-2.37	
Theta (67.5°)	0.130/0.4	-0.16/-2.35	-0.142/6.9	4.094/6.2	2.760/4.6	-0.44/-0.25	-0.25/-0.35	0.621/0.9	1.310/6.3	-0.80/-0.86	3.302/0.6	-2.55/-4.29	-7.53/-5.93	-1.620/5.9	0.771/-7.02	-6.84/-3.06	-2.76/-2.55	-2.32/-0.85	-2.39/-6.31	-5.12/-2.59	-2.80/-4.00	1.802/2.7	0.920/9.0	3.043/0.1		
Theta (75°)	-2.15/-2.23	-1.04/-2.82	0.263/1.1	4.294/4.5	3.392/7.4	2.571/1.0	0.802/2.6	2.882/2.2	1.090/5.4	-1.50/-0.42	3.133/8.6	-1.57/-1.95	-6.87/-8.16	-2.882/2.0	-0.49/-4.22	-4.16/-2.61	-2.870/1.7	-0.13/-3.42	-3.01/-0.90	-1.260/0.8	2.271/9.5	0.080/3.5	2.471/1.3			
Theta (82.5°)	3.21/-1.17	-2.99/-2.84	-0.2305/2.5	1.521/8.1	2.062/2.4	2.710/9.7	1.603/4.5	-0.96/-0.44	-1.46/-4.00	2.683/3.8	-2.06/-2.03	-5.59/-2.63	-2.90/-2.00	-1.893/6.9	-2.69/-3.23	-2.51/-1.69	-3.830/2.9	-1.69/-3.23	-2.51/-1.69	-3.830/2.9	-1.69/-3.23	-2.51/-1.69	-3.830/2.9	-1.69/-3.23		
Theta (90°)	-4.38/-2.36	-4.47/-3.34	-1.39/-0.04	1.310/9.2	0.260/8.8	1.48/-0.52	0.602/8.9	2.580/6.7	-0.69/-0.79	-2.52/-1.81	0.802/7.6	-2.45/-2.66	-5.45/-5.89	-2.90/-0.79	-2.33/-2.59	-1.98/-4.66	-3.51/-1.73	-3.150/5.0	0.65/-2.87	-0.76/-0.24	0.00/-1.30	0.56/-0.15	-4.03/-2.13	0.82/-0.67		
Theta (97.5°)	-4.89/-3.78	-6.25/-4.68	-2.85/-1.65	-0.62/-1.28	-1.74/-1.24	-1.10/-3.80	-1.611/1.4	0.46/-1.72	-1.58/-1.07	-2.171/-1.97	-0.841/-2.5	-4.18/-3.40	-6.68/-5.58	-2.68/-1.88	-3.34/-3.19	-3.975/-6.1	-7.88/-7.5	-5.24/-3.18	-0.16/-4.26	-2.04/-2.39	-1.24/-3.12	-1.04/-2.41	-4.23/-5.24	-0.52/-2.24		
Theta (105°)	-7.85/-7.0	-7.55/-7.46	-5.93/-5.64	-1.62/-1.27	-2.59/-2.05	-5.03/-6.83	-2.50/-2.54	-4.23/-2.52	-2.280/1.3	-4.94/-4.72	-7.18/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	-3.44/-1.67	-5.61/-6.84	
Theta (112.5°)	-6.20/-6.31	-8.88/-10.14	-10.43/-10.60	-3.53/-4.39	-2.92/-1.96	-4.57/-6.18	-7.15/-6.24	-6.43/-6.56	-5.08/-4.17	-5.53/-3.81	-2.83/-1.28	-5.72/-5.56	-7.24/-6.11	-4.43/-4.30	-6.27/-6.37	-5.53/-4.58	-7.61/-6.78	-6.47/-4.14	-3.30/-4.97	-7.36/-6.03	-5.74/-6.18	-4.21/-5.66	-9.73/-6.38	-2.03/-4.24		
Theta (120°)	-7.18/-6.60	-6.35/-9.93	-11.52/-12.38	-9.54/-8.27	-4.87/-3.59	-4.81/-4.60	-4.91/-4.60	-3.72/-3.49	-6.09/-13.4	-10.48/-8.77	-5.44/-5.96	-8.76/-10.53	-9.52/-8.01	-6.58/-4.30	-6.87/-6.87	-6.43/-6.1	-4.69/-4.46	-7.72/-6.68	-2.85/-5.02	-9.26/-5.02	-6.62/-3.67	-5.27/-9.39	-14.00/-11.12	-3.09/-5.65		
Theta (127.5°)	-7.55/-10.63	-8.79/-7.86	-8.14/-6.53	-6.05/-9.56	-9.32/-9.34	-13.37/-10.7	-8.80/-5.16	-3.71/-4.85	-8.03/-14.99	-10.60/-16.25	-12.77/-14.47	-14.92/-13.67	-11.75/-12.49	-6.97/-11.47	-7.09/-8.08	-3.97/-6.14	-15.59/-16.16	-2.42/-5.65	-9.62/-4.92	-5.93/-9.28	-4.66/-5.82	-11.97/-8.98	-5.53/-5.35			
Theta (135°)	-10.50/-10.94	-10.23/-7.72	-10.32/-8.26	-7.92/-9.62	-5.47/-4.46	-8.89/-7.20	-10.17/-9.30																			