



Radiated Composite Gain Data <2.4GHz and 5GHz U-NII 1~U-NII 4>

Appendix A

Table with columns for Frequency (MHz/Pol), Phi (Ant. 8), Gain, and various Phi values (Phi(0) to Phi(35)). The table contains multiple rows of data for different frequencies and polarization states.



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Appendix A

Table with columns for frequency bands (Theta/Ant. 8, 5.6G/Pol.) and gain values in dBm for various antennas. Rows include antenna identifiers (e.g., 0(120)), frequency (Freq(Hz)), and gain for each antenna. Values are in dBm, with some highlighted in red (e.g., -2.71/1.78, -0.89/0.76).



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Freq(Hz)	5.785G/Pol.	Phi/Ant. 8	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-		
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°)	-13.45/-18.86	-17.39/-19.61	-14.93/-13.22	-13.23/-13.75	-14.19/-13.82	-13.66/-14.26	-13.54/-13.03	-12.71/-12.33	-13.14/-13.11	-13.31/-13.78	-13.74/-13.86	-13.89/-14.51	-15.78/-16.09	-16.45/-17.5	-18.71/-19.11	-18.03/-18.09	-16.72/-16.23	-15.51/-15.67	-14.86/-15.13	-14.12/-13.4	-12.32/-12.39	-12.85/-15.91	-16.45/-15.54	-11.87/-11.43



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Appendix A

Table with 22 columns and 28 rows containing gain data for various frequencies and angles. The rows represent different frequency bands (e.g., 8, 8(30), 8(37.5)) and columns represent different angular measurements. The values are numerical gain values in dB.

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	4.46	4.1	4.5	3.33
Ant. 2 Max Gain (dBi)	2.63	2.79	2.83	2.96
Ant. 3 Max Gain (dBi)	3.71	2.18	3.63	2.99
Ant. 4 Max Gain (dBi)	4.66	4.23	5.31	4.77
Ant. 5 Max Gain (dBi)	1.06	1.02	1.1	1.1
Ant. 6 Max Gain (dBi)	1.45	1.02	1.12	1.65
Ant. 7 Max Gain (dBi)	3.34	1.84	2.05	2
Ant. 8 Max Gain (dBi)	3.37	2.58	4	3.68
Ant. 1 Polarization/Θ(°)/Φ(°)	Phi/112.5/277.5	Phi/60/240	Phi/60/240	Phi/120/277.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Phi/97.5/112.5	Phi/52.5/52.5	Phi/90/45	Phi/67.5/90
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/75/82.5	Theta/82.5/127.5	Theta/82.5/120	Theta/82.5/127.5
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/75/292.5	Theta/75/292.5	Theta/75/292.5	Theta/75/292.5
Ant. 5 Polarization/Θ(°)/Φ(°)	Phi/52.5/37.5	Phi/45/15	Phi/45/97.5	Phi/82.5/240
Ant. 6 Polarization/Θ(°)/Φ(°)	Phi/105/270	Phi/112.5/292.5	Phi/97.5/292.5	Phi/112.5/262.5
Ant. 7 Polarization/Θ(°)/Φ(°)	Theta/97.5/210	Theta/90/195	Theta/90/217.5	Phi/60/277.5
Ant. 8 Polarization/Θ(°)/Φ(°)	Theta/90/330	Phi/52.5/285	Phi/52.5/277.5	Theta/97.5/322.5
Max Gain (dBi)	4.66	4.23	5.31	4.77
DG [1SS] (dBi) option1	3.24	4.73	5.38	4.81
DG [1SS] (dBi) option2	3.18	2.58	2.24	2.9
DG [1SS] (dBi) option3	4.66	4.96	5.5	4.76
DG [1SS] (dBi) option4	3.85	2.63	1.94	2.67
DG [1SS] (dBi) option5	3.51	4.15	5.24	4.73
DG [1SS] (dBi) option6	2.15	1.96	3.14	3.58
DG [1SS] (dBi) option7	4.02	4.2	5.36	4.74
DG [1SS] (dBi) option8	3.54	2.12	3.2	3.37
DG [1SS] (dBi) option9	3.44	4.17	4.41	4.33
DG [1SS] (dBi) option10	3.2	2.38	2.87	2.45
DG [1SS] (dBi) option11	5.12	4.52	4.55	5.1
DG [1SS] (dBi) option12	4.71	2.62	3.8	4.36
DG [1SS] (dBi) option13	3.46	3.87	4.44	4.12
DG [1SS] (dBi) option14	2.19	1.77	3.2	3.21
DG [1SS] (dBi) option15	5.9	4.24	4.58	5.05
DG [1SS] (dBi) option16	5.52	2.37	3.47	4.3
DG [2SS] (dBi)	4.66	4.23	5.31	4.77
DG [4SS] (dBi)	4.66	4.23	5.31	4.77



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

θ (30°)	⊖ (37.5°)	⊖ (45°)	⊖ (52.5°)	⊖ (60°)	⊖ (67.5°)	⊖ (75°)	⊖ (82.5°)	⊖ (90°)	⊖ (97.5°)	⊖ (105°)	⊖ (112.5°)	⊖ (120°)	⊖ (127.5°)	⊖ (135°)	⊖ (142.5°)	⊖ (150°)	⊖ (157.5°)	⊖ (165°)	⊖ (172.5°)	⊖ (180°)				
-3.34/2.36	-0.93/0.29	0.81/0.9	0.58/0.13	-0.73/-0.83	-0.38/-0.51	-0.77/-1.24	-1.31/-1.38	-1.79/-1.99	-2.18/-2.77	-3.35/-4.14	-4.93/-5.89	-5.76/-3.98	-2.78/-2.15	-2.06/2.23	-2.43/-2.76	-3.31/3.88	-4.74/-5.6	-6.62/-7.44	-8.48/-8.35	-7.98/-7.2	-6.51/6.69	-5.19/4.69	-4.24/-3.53	
-2.14/-5.4	-0.75/0.4	0.52/0.5	0.20/0.6	0.25/0.5	-0.17/-0.46	-0.78/-1.24	-1.27/-1.32	-1.55/-1.53	-1.46/-2.25	-3.32/-3.02	-2.76/-2.93	-2.35/-1.58	-0.89/-0.7	-1.25/-1.48	-1.53/-1.53	-0.98/-1.22	-2.69/-4.78	-5.53/-5.16	-3.29/-3.12	-4.19/-5.2	-5.49/-4.11	-2.57/-1.28	-2.36/-2.02	
-2.34/-1.78	-0.80/-16	1.59/1.77	1.69/0.98	0.60/2.1	-0.03/0.11	-0.14/0.27	-0.92/-1.61	-1.64/-1.71	-1.57/-2.16	-3.26/-3.89	-4.14/-4.19	-3.09/-2.13	-1.36/0.53	-0.43/0.73	-1.11/-1.04	-0.90/-1.51	-1.01/-1.88	-2.25/-2.17	-1.83/-2.92	-5.54/-4.94	-4.76/-4.69	-4.06/-4.21	-3.82/-2.89	
-1.09/-1.21	-0.61/0.37	2.25/3.1	3.18/2.25	0.61/0.47	-1.11/-1.43	-0.28/0.04	-0.62/-1.72	-2.24/-2.16	-2.4/3.12	-3.95/-4.93	-4.52/-4.77	-4.81/-3.63	-2.87/-2.15	-1.37/-1.41	-2.12/-2.99	-2.21/-1.17	-0.86/0.86	-1.63/-2.83	-2.91/3.37	-3.28/-4.12	-1.99/-2.64	-3.51/3.09	-3.29/-1.98	
-0.08/-1.37	-0.78/0.36	1.82/2.9	2.42/1.43	0.77/0.61	-1.74/-2.25	-2.08/-2.18	-2.97/-2.63	-3.24/-4.52	-3.87/-3.72	4.91/-5.93	-5.81/-0.46	-3.46/-2.92	-2.58/-2.88	-2.73/-2.38	-2.14/-1.87	-2.91/-4.03	-4.35/-4.24	-3.31/-1.2	-2.16/-4.7	-4.01/-1.64	-0.85/-2.08	-2.28/-1.58	-1.13/-3.03	
-1.29/-0.44	-0.54/-0.17	0.14/0.74	0.48/0.94	1.02/0.52	-2.22/-2.28	-2.41/-2.21	-1.03/-2.38	-2.66/-1.79	-1.36/-2.28	-4.47/-1.15	-8.69/-7.93	-6.11/-5.22	-1.62/-2.25	-1.93/-1.33	-0.87/-1.57	-3.19/-5.17	-4.66/-4.42	-6.04/-6.92	-4.81/-3.13	-4.08/-3.51	-3.14/-2.65	-2.39/-1.59	-1.84/-0.53	
-0.46/0.65	-0.9/-0.02	0.22/0.42	0.16/0.72	0.95/1.05	-1.38/-0.2	0.81/0.2	0.21/1.54	-1.62/0.53	-1.69/-3.53	-5.83/-7.12	-7.35/-5.61	-5.09/-5.07	-3.85/-2.57	-1.97/-2.21	-3.38/-2.56	-3.07/-3.55	-5.42/-5.33	-6.82/-5.28	-5.77/-4.92	-3.91/0.01	-4.92/-4.98	-4.56/-3.94	-2.61/-0.32	
-1.21/-1.35	-1.42/-2.23	-2.14/-1.96	-0.94/-1.21	-1.45/-1.58	-0.61/0.1	0.83/0.11	0.96/0.83	0.38/-0.16	-0.83/-1.85	-2.91/-3.96	-4.11/-3.85	-4.51/-4.56	-4.45/-3.01	-1.95/-3.2	-4.52/-3.32	-3.71/-3.02	-4.05/-5	-4.08/-3.08	-2.96/-5.63	-5.46/-4.75	-4.82/-5.52	-4.94/-2.39	-1.58/-0.6	
-4.04/-4.28	-3.73/-3.72	-4.18/-3.4	-2.24/-2.25	-2.83/-1.97	-1.18/-0.95	-0.52/0.49	1.75/1.72	0.66/-0.08	0.53/0.26	-0.97/-2.98	-4.64/-4.69	-4.63/-3.67	-3.47/-3.16	-2.91/-4.62	-4.51/-3.66	-2.96/-3.01	-3.81/-3.76	-4.54/-3.78	-6.08/-2.67	-3.44/-3.11	-4.61/4.83	-3.68/-3.2	-0.92/0.6	
-6.64/6.38	-5.42/5.41	-4.84/3.5	-3.43/3.39	-4.33/4.94	-3.01/-1.39	-0.66/0.66	2.24/2.41	1.37/0.87	-0.54/-1.53	-2.58/-4.42	-5.66/-6.27	-6.03/-5.77	-5.21/4.22	-4.4/5.4	-4.85/4.37	-3.28/-2.42	-2.72/4.78	-2.08/2.87	-2.78/4.65	-5.63/4.82	-3.81/3.44	-5/6.61	-6.06/6.2	
-6.03/-6.28	-4.32/-5.32	-5.47/-4.52	-3.91/2.78	-2.28/-2.49	-2.53/-1.69	-0.63/0.02	0.78/0.17	-0.49/-1.31	-2.27/-2.06	-3/-3.15	-3.52/-4.7	-5.26/-6.32	-4.62/6.04	-4.89/6.06	-6.29/6.21	-4.73/3.22	-3.3/5.4	-2.96/-2.65	-3.82/-6.66	-5.25/-5.58	-3.3/6.11	-9.93/-9.08	-7.17/-5.57	
-5.16/-5.31	-5.1/5.04	-5.28/4.17	-3.12/2.39	-1.55/0.98	-1.09/0.95	-1.18/0.54	-0.27/0.83	-1.22/-1.28	-1.65/0.26	-2.28/2.26	-2.89/2.78	-3.86/5.04	-4.71/5.41	-5.84/6.62	-6.15/6.52	-5.64/3.74	-5.19/2.94	-3.37/3.27	-5.89/9.03	-3.17/6.24	-6.88/4.51	-6.41/7.88	-6.04/5.84	
-6.39/6.98	-6.08/4.78	-2.8/-1.51	-0.31/0.02	0.07/1.05	-1.74/-2	-0.97/-1.5	-2.33/-1.46	-0.54/0.23	-0.55/-1.48	-2.95/-3.51	-3.77/3.5	-4.65/-4.87	-4.62/4.78	-5.32/6.49	-7.91/4.68	-5.19/2.35	-5.45/-5.77	-5.95/2.08	-6.1/7.93	-5.86/4.24	-7.24/8.43	-7.26/7.2	-6.31/6.53	
-6.75/6.56	-5.77/-3.83	-2.98/2.24	-2.35/-1.83	-2.09/1.84	-1.67/-1.21	-0.73/0.94	-1.48/-2.02	-1.73/-1.3	-1.29/2.46	-3.38/4.43	-4.87/5.88	-7.53/7.72	-7.27/5.29	-6.85/6.76	-5.54/-3.81	-3.07/1.46	-1.13/6.5	-6.15/-1.76	-3.75/9.79	-4.14/3.78	-10.52/10.29	-8.68/-10.11	-9.27/6.67	
-7.13/6.2	-5.42/4.87	-4.85/4.14	-5.55/6.08	-4.95/3.55	-2.39/1.83	-1.57/2.02	-3.64/4.13	-4.08/4.49	-5.13/5.39	-5.2/4.73	-4.21/4.47	-5.49/5.22	-4.37/3.61	-4.58/7.05	-6.29/4.55	-5.21/8.2	-3.28/7.26	-5.21/8.2	-3.28/7.26	-8.06/6.21	-5.3/7.23	-7.06/9.77	-10.09/9.9	
-5.89/6.83	-7.34/-6.2	-4.72/4.06	-3.87/4.32	-4.7/3.08	-1.82/-1.98	-2.51/2.25	-2.54/3.57	-5.14/6.09	-6.31/5.71	-4.85/-3.99	-4.36/-5.07	-5.24/6.45	-6.53/6.11	-6.61/6.2	-4.92/3.02	-4.06/2.82	-3.09/3.72	-4.25/3.26	-1.55/-1.98	-5.74/7.34	-7.62/7.09	-7.05/6.97	-6.58/6.4	
-6.08/-6.34	-6.97/-6.99	-6.09/5.95	-6.72/-5.44	-5.34/-3.91	-3.34/-4.15	-5.3/-4.7	-4.07/3.66	-3.93/4.78	-6.01/6.6	-6.73/6.59	-6.42/7.21	-7.9/7.81	-6.76/6.22	-5.24/5.5	-6.03/6.68	-7.25/6.14	-6.64/-6.29	-4.24/2.21	-1.5/2.09	-4.27/5.71	-6.27/6.66	-6.89/6.11	-7.28/5.59	
-5.65/5.95	-6.52/6.96	-8.29/7.41	-5.54/3.8	-3.32/3.54	-4.27/3.52	-5.74/5.5	-4.15/3.66	-2.38/1.89	-1.86/2.19	-2.88/3.19	-4/5.05	-6.01/6.63	-7.27/7.05	-6.65/5.84	-4.9/4.6	-5.96/5.66	-6.19/4.84	-3.69/4.07	-4.5/2.28	-4.23/4.19	-4.15/4.12	-5.85/6.15	-5.65/5.57	
-9.31/9.23	-9.17/9.25	-8.4/-7.3	-6.04/5.8	-5.37/4.53	-4.32/4.44	-4.89/5.9	-6.92/7.8	-8.75/9.77	-10.07/9.2	-8.39/7.91	-7.61/7.62	-7.41/7.7	-6.16/5.82	-5.34/4.65	-4.34/4.99	-6.26/7.03	-6.3/5.07	-5.03/5.98	-6.87/7.84	-8.68/6.97	-9.75/10.59	-11.91/11.81	-11.02/10.62	
-7.41/7.91	-7.98/-7.86	-7.3/6.82	-6.3/5.77	-5.43/5.32	-5.34/6.2	-7.08/6.34	-9.65/10.76	-11.73/10.98	-10.89/9.32	-7.88/7.03	-6.78/6.73	-6.68/6.4	-5.99/5.69	-5.57/5.68	-6.25/7	-7.31/7.05	-6.3/5.82	-5.5/5.14	-5.19/6	-6.98/6.02	-8.28/8.64	-9.8/15	-7.29/7.57	
-9.32/9.1	-8.65/9.17	-8.65/8.57	-8.34/8.07	-7.92/8.19	-7.72/7.77	-7.82/7.75	-8.34/8.96	-8.55/8.61	-8.04/8.01	-7.66/7.85	-8.04/8.51	-9/9.42	-10.22/11.11	-11.61/11.89	-10.53/9.62	-8.93/8.68	-8.3/-8.1	-7.68/7.8	-7.78/8.33	-8.94/10.09	-10.09/10.01	-9.48/9.01	-8.48/8.89	
Freq(Hz)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)	Phi(°)	Theta(°)
6.175GPol.	Theta(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)	Phi(°)
⊖ (0°)	-2.86/2.68	-2.31/2.13	-1.76/1.98	-2.18/2.39	-2.55/2.96	-3.24/3.26	-3.39/3.34	-3.23/3.01	-2.59/2.76	-2.59/2.27	-2.4/2.51	-2.69/3.17	-3.29/2.91	-2.95/2.88	-3.11/3.31	-3.61/3.37	-3.84/4.05	-4.12/3.96	-3.53/3.56	-3.3/2.81	-2.26/2.44	-2.12/2.22	-2.73/2.98	
⊖ (7.5°)	-3.51/4.04	-4.29/4.55	-5.07/5.02	-4.93/5.21	-4.94/5.45	-4.14/3.8	-3.21/3.03	-2.95/3.03	-2.96/3.06	-3.1/3.11	-3.04/3.14	-3.19/3.35	-3.21/2.89	-2.51/2.58	-3.01/3.15	-3.59/4.01	-3.95/3.39	-3.11/3.36	-3.16/2.93	-2.64/2.41	-2/2.21	-1.97/2.18	-2.79/3.09	
⊖ (15°)	-5.15/4.48	-6.01/6.93	-7.12/6.54	-6.34/6.14	-6.61/5.79	-4.71/3.99	-3.49/3.03	-2.66/2.46	-2.54/2.55	-2.69/2.58	-2.59/2.49	-2.74/3.07	-3.63/4.31	-3.43/3.32	-3.81/4.16	-4.38/4.29	-4.14/4.16	-3.81/3.05	-2.31/1.83	-1.51/1.71	-2/2.3	-4.35/5.03	-5.09/4.7	
⊖ (22.5°)	-4.98/4.43	-4.49/4.89	-5.31/4.83	-5.08/5.76	-5.67/5.01	-4.21/3.59	-3.06/2.34	-1.68/1.63	-1.91/2.44	-2.63/2.32	-1.99/2.15	-2.94/4.22	-5.32/5.31	-5.28/4.83	-4.81/5.04	-5.05/4.28	-3.81/4.15	-4.4/3.8	-3.15/2.87	-2.88/2.19	-1.83/2.5	-3.66/3.87	-5.21/6.31	
⊖ (30°)	-4.84/4.99	-4.98/4.2	-3.63/3.25	-3.29/3.44	-3.72/3.85	-3.65/2.78	-2.18/2.15	-1.59/1.47	-1.97/2.35	-2.44/2.91	-4.62/6.76	-3.11/4.04	-4.62/4.58	-5.05/6.02	-7.47/8.2	-7.7/6.61	-6.66/6.36	-4.53/3.35	-3.33/3.8	-3.21/3.87	-3.64/4.81	-5.25/4.97	-5.37/6.86	
⊖ (37.5°)	-5.85/5.6	-5.54/5.05	-3.98/2.69	-2.52/2.86	-3.39/3.99	-3.55/2.5	-1.66/1.21	-0.95/1.36	-1.86/2.23	-2.17/2.32	-2.83/2.51	-2.35/3.34	-4.38/4.75	-5.39/7.1	-7.95/7.1	-6.34/6.49	-7.45/7.08	-5.87/4.8	-3.74/3.91	-5.63/5.6	-3.26/2.97	-4.54/6.62	-5.81/5.87	
⊖ (45°)	-2.02/2.54	-3.47/4.04	-4.44/4.69	-4.62/4.27	-3.29/2.56	-2.44/2.56	-2.49/1.39	-0.11/0.51	-0.16/0.69	-0.68/1.19	-2.73/1.14	-2.48/3.02	-3.86/2.62	-2.27/3.03	-4.29/5.34	-5.43/5.05	-5.67/7.63	-6.22/4.45	-6.25/9.73	-8.91/5.13	-4.72/5.05	-6.4/5.96	-7.28/6.49	
⊖ (52.5°)	-3.91/3.4	-2.79/3.03	-3.45/3.4	-4.74/4.68	-4.86/3.5	-2.4/2.14	-0.35/0.45	-0.86/1.24	-1.28/0.91	-0.78/0.58	-0.75/0.71	-0.92/1.98	-1.71/1.85	-3.24/2.62	-2.45/2.55	-3.1/4.22	-4.51/4.6	-4.54/3.65	-4.57/8.96	-11.15/9.82	-6.66/7.64	-6.21/6.69	-5.71/5.34	
⊖ (60°)	-2.34/2.62	-2.38/2.53	-2.83/2.58	-2.81/2.56	-1.67/0.07	1.19/0.68	-0.91/0.63	-2.11/1.77	-1.04/0.58	-0.53/1.52	-0.79/0.13	-0.32/0.48	-1.03/0.57	-0.75/1.93	-3.26/3.43	-4.49/4.19	-4.51/3.19	-3.56/7.09	-7.66/7.67	-8.85/8.57	-7.8/8.5	-5.79/6.64	-6.03/4.61	
⊖ (67.5°)	-4.65/3	-2.93/2.74	-2.62/2.91	-3.9/3.5	-1.85/0.15	0.96/0.32	-1.25/2.16	-1.19/0.24	0.07/0.05	0.46/0.3	0.32/0.84	0.2/0.19	-0.32/0.47	-0.42/0.47	-1.71/3.37	-5.52/5.21	-3.64/2.79	-3.43/4.61	-5.2/6.24	-6.08/5.81	-6.53/3.53	-3.53/5.54	-4.9/4.4	
⊖ (75°)	-6.4/6.46	-3.72/2.98	-3.33/3.58	-3.11/2.15	-1.46/0.41	-0.52/0.46	-0.4/0.51	-0.21/0.33	2.17/1.78	1.02/0.26	1.81/0.92	1.13/0.51	-0.22/0.42	-0.65/0.47	-0.85/3.12	-5.18/6.7	-4.43/4.76	-4.07/6.01	-4.85/5.55	-4.17/4.28	-7.73/5.59	-7.73/5.59	-5.75/7.75	
⊖ (82.5°)	-6.91/6.26	-5.1/3.36	-3.23/3.48	-5.53/5.8	-3.63/0.98	-0.57/0.43	0.25/0.08	-1.79/1	1.33/0.09	1.49/1.77	0.83/1.33	0.56/0.55	0.18/0.12	0.36/0.85	-0.79/1.28	-5.88/6.77	-2.91/2.76	-3.51/4.73	-3.8/4.33	-1.68/3.59	-2.99/5.89	-5.96/6.13	-9.7/8.84	
⊖ (90°)	-7.17/4.83	-2.98/2.8	-3.16/3.92	-4.07/3.83	-2.5/-0.48	-0.31/0.78	-0.48/0.41	-0.92/0.66	-0.26/1.42	0.31/1.22	0.69/1.22	0.93/0.1	-0.77/1.29	-0.61/1.78	-0.37/0.75	-5.06/3.16	-1.71/1.94	-2.24/5.81	-6.87/7.28	-1.46/6.77	-4.11/4.47	-5.05/4.89	-9.93/8.52	
⊖ (97.5°)	-4.04/4.65</																							



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Θ(82.5°)	-3.58/-2.71	-3.23/-0.88	0.72/0.93	0.86/0.46	0.78/0.5	-1.49/-0.25	-0.41/-3.32	-2.01/-3.08	-1.29/-1.73	-1.63/-2.89	-3.48/-4.06	-5.79/-7.1	-6.97/-5.62	-2.67/-0.96	-0.34/-1.22	-1.07/-0.1	-0.75/0.65	0.76/-3.32	-3.21/-4.08	-3.29/-3.75	-3.87/-3.95	-3.8/-9.4	-5.46/-5.91	-3.52/-1.89	
Θ(90°)	-4.23/-1.81	-2.1/-1.1	-1.15/-1.02	0.41/0.4	0.22/-1.2	-2.46/-2.14	-1.62/-1.66	-3.51/-2.65	-0.68/-1.51	-1.67/-2.39	-3.21/-4.11	-5.55/-7.92	-7.95/-6.81	-5.32/-3.92	-2.62/-3	-3.93/-1.23	-1.11/-1.57	-2.02/-6.49	-3.46/-2.08	-3.02/-5.8	-5.3/-7.54	-5.59/-4.65	-7.02/-4.86	-4.38/-2.41	
Θ(97.5°)	-5.5/-4.8	-4.51/-5	-4.17/-3.43	-2.15/-2.16	-1.26/-0.63	-1.45/-2.26	-2.31/-3.1	-0.92/-1.33	-1.12/-2.4	-3.54/-5.79	-4.62/-4.83	-6.42/-8.68	-7.19/-5.62	-4.69/-4.7	-3.32/-3.64	-3.73/-2.63	-2.61/-2.08	-2.74/-5.61	-3.17/-2.85	-4.05/-4.2	-6.23/-4.78	-5.3/-3.92	-8.11/-8.73	-5.87/-6.4	
Θ(105°)	-5.81/-6.3	-4.89/-4.23	-2.3/-2.26	-2.55/-3.56	-3.13/-2.27	-2.87/-1.68	-0.11/-1.01	-1.41/-0.35	-1.04/-2.41	-1.31/-1.72	-1.49/-2.69	-4.07/-6	-7.21/-5.7	-5.74/-5.85	-4.87/-5.7	-4.9/-3.04	-3.21/-3.48	-4.24/-1.86	-5.24/-2.21	-2.71/-4.89	-6.06/-7.7	-5.59/-9.57	-9.4/-9.08	-6.13/-5.32	
Θ(112.5°)	-6.03/-6.5	-4.74/-5.18	-4.16/-3.92	-2.53/-2.06	-2.32/-1.25	-2.04/-2.1	-1.31/-1.02	-1.11/-0.59	-0.66/-0.88	-1.61/-1.82	-1.37/-2.66	-4.12/-5.82	-5.71/-6.88	-4.85/-6.62	-6.54/-6.32	-5.49/-4.84	-4.21/-2.73	-4.14/-1.33	-4.47/-1.8	-2.99/-2.52	-3.82/-6.65	-10.69/-9.34	-10.25/-8.9	-7.47/-5.1	
Θ(120°)	-6.14/-7.62	-6.87/-4.35	-2.96/-2.48	-2.63/-1.57	-1.42/-0.53	0.25/-0.1	-2.11/-2.52	-1.14/-1.13	-2.02/-2.14	-4.49/-4.74	-4.28/-4	-6.17/-3.86	-4.09/-4.29	-3.33/-2.63	-5.56/-4.03	-6.28/-2.97	-4.83/-9.72	-5.13/-1.91	-5.81/-1.91	-2.68/-1.01	-7.31/-1.77	-8.95/-8.22	-16.16/-8.32	-9.58/-7.95	
Θ(127.5°)	-7.92/-4.74	-4.63/-3.97	-3.01/-2.09	-2.23/-2.54	-3.21/-3.75	-2.87/-1.95	-1.75/-2.94	-4.09/-2.74	-1.15/-2.51	-2.93/-3.67	-4.54/-4.43	-4.62/-4.47	-6.33/-7.91	-7.15/-4.85	-4.19/-6.09	-6.43/-2.69	-1.41/-1.28	-5.51/-7.06	-4.01/-2.25	-3.18/-9.29	-7.76/-5.19	-7.01/-9.49	-7.89/-9.01	-8.79/-7.96	
Θ(135°)	-8.8/-7.3	-5.39/-6.12	-6.63/-7.56	-6.76/-4.05	-3.19/-2.33	-2.11/-3.24	-2.99/-1.85	-3.84/-4.34	-3.52/-1.99	-1.08/-1.85	-2.94/-7.4	-6.37/-6.46	-6.09/-5.45	-5.95/-2.82	-2.41/-4.48	-5.16/-3.04	-2.46/-1.5	-4.87/-7.85	-8.28/-3.4	-3.98/-9.14	-10.13/-5.94	-9.37/-9.41	-8.17/-8.87	-10.51/-10.67	
Θ(142.5°)	-6.91/-5.97	-5.02/-4.46	-4.78/-6.41	-7.09/-6.43	-4.91/-4.16	-4.15/-4.42	-3.41/-2.96	-3.26/-3.33	-2.09/-1.59	-2.29/-3.36	-4.17/-5.17	-5.41/-4.32	-3.79/-4.5	-5.63/-5.25	-5.02/-7.68	-7.8/-6.07	-3.72/-2.26	-3.44/-3.63	-4.14/-2.53	-2.74/-5.85	-4.57/-8.11	-4.94/-7.76	-7.39/-7.22	-7.66/-7.14	
Θ(150°)	-6.97/-8.17	-7.85/-7.29	-7.32/-7.34	-5.97/-4.62	-3.24/-2.5	-2.32/-2.54	-2.51/-2.9	-3.31/-3.43	-3.24/-0.6	-4.71/-5.15	-4.93/-5.56	-7.77/-8.14	-7.73/-7.15	-6.31/-4.87	-4.13/-4.57	-6.79/-7.26	-5.09/-4.32	-5.47/-5.31	-3.03/-1.56	-1.01/-2.53	-5.96/-8.44	-8.62/-7.69	-8.07/-7.73	-6.07/-5.81	
Θ(157.5°)	-8.67/-8.54	-7.49/-7.43	-7.06/-6.37	-6.53/-6.41	-5.67/-4	-3.23/-3.19	-3.54/-4.26	-5.14/-4.92	-4.61/-3.89	-3.8/-4.82	-6.68/-8.47	-9.96/-10.63	-8.56/-5.38	-3.43/-3.03	-3.21/-3.3	-5.35/-9.46	-8.6/-6.71	-6.99/-7.45	-3.31/-2.96	-3.53/-5.47	-8.62/-10.38	-8.64/-8.57	-8.81/-8.63	-9.08/-8.84	
Θ(165°)	-5.53/-6.73	-7.47/-7.79	-8.4/-9.27	-8.38/-8.78	-5.51/-4.65	-4.74/-5.68	-6.74/-5.2	-8.19/-8.52	-7.63/-7.13	-6.82/-6.62	-6.44/-5.36	-4.53/-4.2	-4.23/-4.27	-4.24/-5	-5.47/-6.64	-8.85/-9.62	-6.18/-5.9	-4.96/-4.95	-5.15/-5.9	-6.85/-7.31	-8.47/-8.81	-7.89/-8.26	-7.47/-6.84		
Θ(172.5°)	-11.59/-11.54	-11.89/-11.67	-11.94/-11.54	-10.9/-10.46	-9.9/-9.17	-8.79/-8.87	-8.89/-8.1	-7.8/-7.33	-6.88/-6.66	-6.83/-7.2	-7.6/-8.74	-9.58/-10.15	-10.09/-9.21	-7.59/-6.63	-6.33/-6.17	-6.15/-5.89	-5.36/-5.4	-4.99/-5.01	-5.2/-6.35	-7.65/-8.83	-9.95/-10.1	-11.04/-11.04	-11.77/-11.69	-12.33/-11.79	
Θ(180°)	-11.34/-10.95	-9.65/-8.56	-8.27/-7.43	-6.88/-6.63	-6.38/-6.32	-6.21/-6.38	-6.79/-7.13	-7.32/-6.99	-6.75/-6.61	-6.89/-7.15	-7.68/-7.74	-7.65/-7.07	-6.81/-6.53	-6.72/-6.56	-5.96/-5.22	-4.9/-4.8	-5.04/-5.52	-5.71/-5.61	-5.74/-6.34	-7.28/-8.3	-9.8/-10.27	-10.85/-11.71	-11.15/-11.11	-11.71/-11.45	
Freq(Hz)	6.995GPol.	Theta-L	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)	
Θ(0°)	-6.58/-8.85	-9.56/-11.34	-9.4/-8.22	-7.09/-6.02	-4.87/-3.86	-3.08/-3.23	-1.91/-1.59	-1.42/-1.59	-1.67/-1.92	-2.25/-2.5	-3.13/-3.76	-4.77/-6.02	-7.47/-9.12	-10.56/-10.4	-9.46/-8.59	-7.23/-5.58	-4.24/-3.07	-2.4/-1.8	-1.53/-1	-0.88/-0.83	-1.02/-1.27	-1.69/-2.19	-2.79/-3.8	-4.94/-6.66	
Θ(7.5°)	-8.23/-0.7	-9.13/-8.68	-4.7/-4.3	-5.4/-4.49	-3.61/-3	-2.36/-1.81	-1.33/-1.04	-0.98/-0.92	-0.99/-1.16	-1.36/-1.71	-1.95/-2.42	-2.96/-3.91	-4.93/-6.07	-7.15/-8.45	-8.25/-7.77	-6.56/-5.05	-4.11/-3.46	-3.2/-2.56	-2.17/-1.93	-1.94/-1.97	-2.09/-2.71	-3.22/-4	-3.87/-4.74	-5.91/-6.57	
Θ(15°)	-5.86/-5.25	-5.42/-5.93	-5.53/-5.46	-4.96/-4.22	-3.72/-3.31	-2.81/-2.18	-1.83/-1.57	-1.43/-1.06	-0.72/-0.57	-0.74/-1.13	-1.69/-2.08	-2.48/-2.69	-3.11/-3.95	-4.98/-6.44	-7.34/-6.79	-5.64/-4.85	-3.8/-3.23	-3.14/-3.27	-3.36/-3.22	-2.92/-3.34	-4.41/-5.45	-5.87/-6.3	-6.51/-6.47	-6.59/-6.86	
Θ(22.5°)	-4/-3.4	-5.07/-5.19	-5.41/-5.41	-5.32/-4.64	-3.77/-3.06	-2.99/-2.73	-2.07/-1.45	-1.37/-1.31	-1.32/-1.2	-1.47/-2.29	-3.01/-3.66	-4.57/-5.27	-6.17/-6.69	-5.71/-5.94	-5.21/-5.66	-5.92/-6.27	-4.44/-4.67	-4.74/-5.2	-5.17/-5.64	-5.36/-5.23	-6.16/-6.77	-7.61/-6.59	-5.11/-6.06	-5.14/-6.06	
Θ(30°)	-6.18/-6.14	-5.81/-6.04	-5.71/-4.08	-3.9/-3.78	-3.51/-3.66	-4.06/-3.7	-3.63/-3.14	-1.74/-0.6	0.06/-0.1	-0.64/-1.41	-2.04/-2.62	-3.16/-4.2	-4.71/-6.98	-6.95/-9.74	-8.21/-7.98	-6.46/-6.07	-5.92/-6.61	-4.41/-5.03	-5.99/-6.46	-5.93/-5.26	-5.71/-6.47	-7.26/-8.5	-9.31/-6.57	-9.31/-6.57	
Θ(37.5°)	-5.3/-4.23	-3.44/-3.29	-3.45/-4	-4.78/-5.41	-4.59/-4.26	-4.35/-4.85	-4.27/-2.61	-0.88/0.66	1.38/0.91	0.40/0.3	-0.79/-1.49	-1.66/-2.15	-3.55/-5.62	-6.17/-6.16	-5.21/-4.03	-4.38/-6.3	-6.19/-5.84	-5.81/-5.47	-5.67/-6.86	-7.98/-7.42	-6.73/-6.34	-8.4/-7.18	-7.97/-8.6	-7.48/-6.81	
Θ(45°)	-6.87/-5.52	-4.23/-4.46	-3.82/-1.48	-4.27/-3.21	-2.73/-3.21	-3.37/-3.48	-1.01/-1.5	-0.46/0.1	0.78/0.72	-0.04/-0.19	-0.76/-1.31	-1.54/-1.67	-3.16/-4.38	-5.05/-4.68	-5.14/-7.3	-5.37/-5.67	-6.45/-6.56	-8.16/-5.33	-9.28/-2.33	-10.68/-10.98	-10.43/-10.94	-5.32/-5.34	-6.88/-6.84		
Θ(52.5°)	-2.89/-4.42	-4.64/-4.69	-4.73/-6.63	-3.34/-2.11	-1.11/-0.57	-0.78/0.47	0.15/0.05	-0.12/-0.32	0.31/0.3	-0.59/-0.34	-0.37/-1.37	-2.73/-2.47	-3.55/-3.35	-2.62/-4.3	-1.55/-5.3	-3.87/-4.77	-6.19/-7.16	-5.34/-6.33	-9.09/-9.94	-6.99/-6.5	-5.67/-9.14	-6.56/-4.93	-3.74/-2.66		
Θ(60°)	-5.23/-5.7	-5.74/-5.25	-5.02/-4.31	-2.46/-1.12	0.22/1.54	0.89/-0.53	0.02/0.38	-0.05/0.3	0.19/0.45	-0.47/0.58	0.73/1.34	0.20/0.75	-0.08/-1.83	-0.98/-1.28	-2.14/-4.11	-5.51/-4.45	-4.29/-4.83	-4.48/-7.56	-7.61/-4.97	-8.22/-6.31	-6.02/-6.39	-6.33/-7.17	-7.43/-7.63	-7.55/-5.95	
Θ(67.5°)	-5.92/-8.85	-3.69/-3.27	-3.45/-3.84	-3.72/-2.3	-0.04/0.93	-1.61/0.99	-0.44/0.65	0.66/0.36	0.12/0.84	0.01/0.32	-1.15/-1.02	-0.83/-0.67	-0.21/0.09	-0.49/-2.77	-7.45/-9.78	-7.23/-6.38	-6.45/-10.3	-8.1/-10.13	-8.1/-10.13	-8.1/-10.13	-10.99/-10.25	-8.53/-5.45	-5.05/-6.6		
Θ(75°)	-6.05/-5.29	-4.16/-3.42	-3.05/-3.01	-4.47/-5.05	-2.12/-0.32	0.22/1.96	1.07/0.74	0.28/0.2	1.031/49	0.67/0.7	0.09/0.43	-0.13/-0.78	-2.21/-3.02	-2.07/-1.12	-0.51/2.24	-4.26/-4.26	-5.11/-9.77	-6.54/-10.14	-8.38/-10.93	-9.61/-10.55	-8.61/-8.43	-5.61/-9.2	-7.66/-7.58	-8.08/-6.38	
Θ(82.5°)	-5.19/-5.14	-4.11/-2.62	-2.87/-4.1	-4.97/-3.09	-0.56/-0.06	-0.36/0.54	-0.18/-0.05	1.22/0.9	2.06/1.2	0.22/0.48	0.82/-0.18	-0.72/-1.11	-0.40/-0.74	-0.16/-0.46	-1/2.16	-5.32/-6.17	-5.33/-6.73	-7.09/-9.07	-6.04/-6.62	-6.76/-6.71	-5.37/-7.9	-5.04/-9.33	-5.88/-7.27	-5.43/-6.34	
Θ(90°)	-6.34/-5.3	-4.43/-3.64	-2.82/-2.47	-3.12/-3.57	-1.73/-2.09	-1.06/0.7	0.10/0.44	0.45/0.05	0.651/33	0.751/68	2.21/0.32	-0.24/-0.14	0.67/0.24	0.72/0.93	-0.68/-1.09	-3.76/-4.4	-4.25/-2.28	-2.27/-0.66	-8.88/-6.47	-4.24/-7.08	-5.36/-8.18	-5.81/-5.85	-10.71/-8.3	-7.61/-6.03	
Θ(97.5°)	-10.87/0.03	-6.13/-3.32	-3.21/2.77	-2.45/-2.03	-1.69/-1.53	-0.79/0.13	0.36/0.89	-0.38/-1.39	-0.01/0.65	0.731/43	1.731/23	0.9/0.41	0.11/1.33	-1.03/-2.24	-1.61/-1.51	-4.49/-5.23	-2.11/-2.77	-3.11/7.1	-3.85/-4.87	-4.81/8.45	-5.93/-10.08	-12.55/-11.23	-10.41/9.59	-10.41/9.59	
Θ(105°)	-10.35/-9.94	-7.7/-5.21	-2.89/-1.82	-1.41/-1.29	-1.45/-3.19	-2.74/-1.43	-0.19/-0.2	-1.42/-2.35	-0.10/0.62	0.52/0.23	-0.02/-0.05	1.04/0.77	-0.71/2.88	-2.15/-2.55	-2.11/-2.84	-4.73/-4.35	-2.79/-3.12	-5.93/-3.36	-5.15/-4.44	-5.72/-5.11	-6.55/-8.88	-9.8/-9.21	-6.29/-8.81	-9.25/-8.69	
Θ(112.5°)	-7.66/-6.15	-4.88/-4.24	-3.28/-3.3	-3.23/-4.49	-3.45/-2.93	-2.55/-2.41	-1.67/-1.02	-0.56/-0.71	-0.91/-1.28	-1.42/-1.14	-1.21/-0.99	-0.43/-1.8	-0.97/-3.47	-3.69/-3.56	-3.33/-3.41	-7.41/-5.98	-5.11/-5.28	-7.01/-7.82	-4.49/-1.48	-1.77/-3.32	-6.41/-9.72	-8.78/-8.78	-11.22/-10.62	-7.71/-7.16	
Θ(120°)	-7.63/-5.03	-3.59/-3.03	-3.25/-3.94	-4.95/-5.02	-4.04/-2.84	-2.64/-3.66	-2.84/-1.08	-0.16/-0.64	-1.5/-2.37	-3.5/-4.12	-4.39/-3.58	-3.53/-3.9	-3.35/-3.58	-2.81/-3.22	-2.36/-2.95	-4.89/-4.36	-4.67/-5.26	-9.07/-8.41	-4.91/-3.91	-7.06/-7.18	-6.13/-10.86	-10.9/-11	-10.2/-8.21	-7.71/-7.96	
Θ(127.5°)	-7.05/-6.89	-5.94/-5.62	-6.59/-5.57	-4.76/-4.56	-5.04/-4.71	-4.53/-4.87	-6.59/-5.72	-3.75/-3.52	-4.98/-9.07	-0.9/-9.09	-2.48/-5.05	-4.48/-3.16	-3.29/-3.91	-3.67/-3.72	-1.62/-2.68	-1.6/-2.05	-6.23/-6.25	-6.78/-3.37	-9.07/-6.71	-6.62/-4.76	-8.56/-8.07	-8.94/-1.11	-9.13/-11.93	-8.57/-9.22	-6.67/-6.69
Θ(135°)	-6.28/-8.94	-9.19/-10	-9.54/-7.92	-8.09/-8.15	-7.44/-7.68	-6.79/-5.25	-3.71/-9.9	-0.65/-0.34	-0.84/-1.61	-1.89/-2.14	-3.14/-2.72	-3.82/-0.44	-3.54/-2.71	-0.75/-1.18	-2.09/-3.16	-4.97/-6.43	-6.32/-8.88	-8.25/-8.66	-5.41/-5.76	-8.1/-10.83	-9.71/-8.27	-8.89/-7.82	-9.08/-7.45	-7.6	
Θ(142.5°)	-7.95/-8.18	-9.07/-9.02	-8.8/-8.59	-7.97/-8.7	-9.33/-10.82	-																			



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Theta (112.5°)	-7.11-8.38	-9.72-11.38	-11.26-11.29	-9.83-11.15	-9.65-8.17	-7.86-7.58	-7.47-5.86	-7.33-10.3	-8.64-5.92	-6.91-6.29	-6.27-5.7	-6.85-4.02	-4.3-2.45	-2.3-0.48	0.8-1.89	-4.82-1.83	-0.060-0.74	-0.630-38	1.723-26	0.34-0.68	-1.89-1.8	-0.94-3.74	-9.79-10.8	-7.74-5.44			
Theta (120°)	-7.53-11.73	-10.03-11.28	-9.33-8.59	-8.91-9.64	-9.97-10.64	-9.72-8.5	-6.89-8.65	-9.37-8.39	-6.73-7.29	-6.88-5.75	-5.84-5.24	-4.5-3.2	-3.72-2.39	-1.92-2	-1.25-5.96	-6.07-1.7	-1.30-8.2	-2.5-1.45	0.212-61	0.34-0.68	-0.77-8.51	-4.82-2.25	-4.61-6.31	-6.95-9.7	-11.82-6.98		
Theta (127.5°)	-7.46-8.07	-10.95-10.96	-10.65-9.49	-10.02-8.83	-10.27-10.56	-9.53-6.81	-6.4-8.06	-8-8.06	-6.41-5.88	-6.73-6.13	-4.87-4.68	-4.96-6.22	-6.47-4.16	-4.52-3.41	-3.67-4.82	-2.90-7.7	0.090-32	-0.64-2.79	-1.99-6.3	-1.04-6.65	-4.35-3.01	-8.11-7.54	-6.01-9.93	-10.49-5.85			
Theta (135°)	-8.9-8.95	-9.47-11.3	-8.5-7.83	-9.81-10.03	-9.79-8.05	-7.19-8.16	-7.79-5.82	-7.76-6.82	-6.61-6.91	-6.59-6.12	-7.12-6.58	-4.99-5.53	-6.67-5.27	-3.68-1.22	-0.87-1.22	0.120-4	-0.70-5.6	-1.49-4.4	-2.31-1.99	-1.07-9.7	-5.73-4.38	-4.66-5.83	-5.37-9	-10.98-10.51			
Theta (142.5°)	-9.34-10.5	-10.93-8.35	-7.69-7.73	-7.15-6.4	-5.11-3.75	-3.61-5.27	-6.84-6.33	-4.84-5.07	-5.6-6.88	-6.52-6.02	-5.39-4.97	-5.86-6.4	-6.27-6.34	-4.29-2.34	-1.65-0.3	-1.02-2.2	-1.2-0.94	-1.45-2.34	-2.46-2.94	-0.77-0.88	-3.07-4.03	-4.78-4.51	-4.15-5.76	-8.76-10.29			
Theta (150°)	-8.93-8.52	-7.81-6.64	-6.02-6.84	-9.91-9.9	-5.69-4.35	-4.2-5.85	-8.2-7.76	-6.67-6.6	-4.2-5.85	-4.73-5.49	-5.82-6.69	-5.52-5.67	-6.01-5.15	-3.98-3.09	-1.86-0.89	-1.13-2.01	-3.41-4.7	-5.76-4.19	-1.61-1.01	-1.33-0.16	-0.94-1.94	-3.75-4.61	-5.21-7.08	-9.43-10.44			
Theta (157.5°)	-8.69-8.83	-9.48-8.94	-10.89-10.68	-6.88-4.38	-3.79-4.44	-5.76-7.1	-9.41-10.45	-9.91-6.74	-3.83-2.61	-2.64-3	-3.11-3	-3.66-4.48	-5.47-6.34	-5.85-4.54	-3.2-2.61	-1.9-1.35	-2.2-3.28	-2.09-0.13	0.840-2	-1.3-2.31	-2.46-2.63	-2.81-3.25	-4.51-6.45	-7.47-8.26			
Theta (165°)	-10.13-9.48	-7.91-7.31	-6.33-5.7	-5.46-6.03	-6.33-6.15	-6.17-6.06	-6.71-7.46	-7.97-8.67	-9.41-10.2	-9.86-8.87	-8.71-8.3	-8-19	-8.52-8.38	-6.93-7.99	-5.48-5.15	-4.96-5.44	-6.19-6.26	-4.65-2.74	-2.2-2.59	-3.74-5.55	-7.75-9.69	-10.34-11.16	-11.92-12.76	-12.15-11.63			
Theta (172.5°)	-7.73-8.43	-9.32-9.32	-8.84-8.12	-7.47-6.77	-6.67-6.6	-6.81-7.92	-8.83-9.78	-10.71-10.18	-9.97-10.13	-9.94-9.99	-10.42-10.39	-8.67-8.64	-7.54-7.11	-6.98-7.02	-6.88-6.84	-6.53-5.72	-4.63-3.95	-3.22-2.76	-2.85-4.06	-5.69-7.54	-9.27-10.99	-11.01-9.5	-7.92-8.07				
Theta (180°)	-11.33-11.08	-10.63-10.89	-9.61-9.14	-8.45-8.08	-8.42-8.27	-7.49-7.29	-6.95-6.88	-7.24-7.76	-7.49-7.25	-7.44-7.65	-7.82-7.48	-7.95-8.31	-8.93-9.17	-9.57-9.25	-9.12-8.79	-7.59-6.5	-5.73-5.25	-5.08-4.83	-4.8-5.05	-5.57-6.83	-7.8-9.79	-10.43-11.25	-10.59-10.48	-10.18-11.18			
Freq (MHz)	6175GPol.	Theta	Phi	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(352.5°)				
DG(dB)	Phi(0°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)			
Theta (0°)	-4.17-3.43	-3.01-2.73	-2.88-2.79	-3.17-3.81	-4.02-4.49	-4.66-5.34	-5.67-6.94	-6.76-6.5	-6.54-6.27	-5.84-5.3	-4.72-3.96	-3.53-3.13	-3.07-3.18	-3.31-3.21	-3.54-3.71	-4.09-4.37	-4.93-5.37	-5.94-6.27	-6.35-6.57	-6.41-6.45	-6.09-6.57	-5.04-5.38	-5.14-6.8	-4.37-4.52			
Theta (7.5°)	-3.76-3.51	-4.19-4.38	-5.13-4.9	-5.44-6.32	-6.73-6.71	-6.71-6.72	-6.46-6.03	-5.51-5.19	-4.82-4.84	-4.64-4.56	-4.6-4.98	-5.13-5.03	-4.94-5	-4.83-4.24	-3.72-3.51	-3.45-3.34	-3.93-4.37	-5.08-5.15	-6.2-6.81	-7.24-7.02	-6.18-6.53	-4.84-3.99	-3.07-2.76	-3.03-3.23			
Theta (15°)	-5.45-6.58	-7.58-9.17	-10.11-9.8	-10.21-10.37	-11.83-10.47	-9.97-9.07	-8.18-7.05	-6.60-5.07	-4.27-3.66	-3.37-3.28	-3.53-3.79	-4.33-4.71	-5.31-4.44	-5.17-4.04	-3.73-3.78	-4.42-4.68	-6.51-4.43	-4.72-5.14	-5.16-4.94	-4.67-4.06	-3.37-3.33	-3.59-3.7	-3.13-3.12	-4.4-4.9			
Theta (22.5°)	-4.64-4.97	-6.68-6.57	-7.89-8.46	-9.22-10.46	-9.44-8.71	-8.41-8.55	-8.89-6.54	-4.47-3.81	-3.59-3.55	-3.39-3.05	-3.03-4.12	-5.59-7.06	-7.39-5.88	-4.65-3.53	-3.13-3.95	-4.27-3.34	-2.72-3.52	-4.59-3.73	-3.2-3.85	-4.22-3.07	-2.21-1.89	-1.36-1.99	-3.36-5	-5.28-4.95			
Theta (30°)	-4.88-5.56	-6.91-6	-4.58-3.9	-4.29-4.99	-6.28-7.97	-9.88-10.28	-9.75-8.09	-5.02-3.8	-4.37-5.52	-6.09-6.77	-5.77-4.99	-5.81-7.4	-8.93-8.21	-6.36-5.21	-5.37-5.99	-5.11-3.27	-3.04-3.76	-2.98-2.22	-1.78-3.3	-2.67-1.94	-1.56-2.09	-0.3-1.71	-3.23-4.84	-6.54-5.37			
Theta (37.5°)	-3.63-4.45	-5.91-5.37	-3.94-3.55	-4.9-4.69	-7.16-7.95	-11.26-9.95	-8.47-7.02	-5.14-4.83	-5.77-6.93	-6.61-6.67	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5	-4.65-4.5		
Theta (45°)	-1.11-1.98	-4.01-4.93	-4.24-4.1	-4.51-6.33	-8.4-9.93	-11.72-10.67	-9.26-6.09	-4.24-3.92	-5.37-7.38	-6.47-5.31	-6.91-5.83	-3.53-3.56	-4.17-2.42	-0.99-1.65	-3.82-4.18	-4.49-3.82	-3.8-5.06	-4.94-3.05	-3.71-4.13	-2.71-0.84	-0.69-1.09	-1.57-1.72	-1.96-3.27	-4.44-2.87			
Theta (52.5°)	-4.26-4.18	-3.74-4.45	-5.34-6.24	-6.21-8.5	-9.37-11.9	-11.03-10.68	-10.12-8.07	-5.49-4.68	-5.65-6.64	-6.79-4.62	-4.38-5.6	-3.15-2.55	-3.26-1.49	-0.37-0.37	-2.14-2.76	-1.67-1.74	-0.73-1.1	-3.38-3.33	-2.11-1.26	-0.43-2.24	-0.82-0.56	-0.19-0.76	-1.15-2.98	-2.71-3.63			
Theta (60°)	-0.04-1.5	-2.11-2.54	-5.09-5.56	-4.86-5.85	-11.92-12.56	-4.96-5.83	-7.47-10.8	-8.78-9.31	-12.31-5.56	-4.55-5.7	-4.92-3.13	-5.38-3.25	-2.72-2.07	-1.02-0.67	-1.33-1.18	-0.61-0.51	-2.51-1.54	1.310-72	1.860-65	-1.272-47	3.891-13	2.881-91	1.52-55	0.250-83	-1.56-1.87		
Theta (67.5°)	-2.13-1.99	-2.77-3.79	-3.7-5.82	-6.43-8.9	-11.14-8.89	-8.19-8.59	-11.51-11.02	-8.94-7.91	-6.8-6.37	-4.78-6.17	-4.4-1.4	-2.59-1.31	-1.07-1.11	-1.07-0.58	-1.69-2.33	-2.47-1.01	-0.011-61	1.930-72	0.290-37	2.190-96	0.612-5	1.891-86	2.281-91	-0.44-1.42			
Theta (75°)	-1.69-3.56	-2.14-4.04	-4.22-4.06	-4.28-4.69	-6.83-5.87	-8.77-10.8	-10.71-9.73	-7.16-5.53	-4.76-5.74	-6.29-5.14	-1.51-1.51	-0.66-1.09	-0.82-0.01	-0.53-0.71	-2.42-2.26	-3.97-1.42	3.271-92	0.39-57	0.981-43	3.271-92	2.461-87	1.241-17	0.031-34	-1.51-1.83			
Theta (82.5°)	-0.85-4.56	-2.05-6.33	-4.29-6.16	-7.04-9.91	-7.32-5.25	-8.10-9.14	-8.78-9.31	-12.31-5.56	-4.55-5.7	-4.92-3.13	-5.38-3.25	-2.72-2.07	-1.02-0.67	-1.33-1.18	-0.61-0.51	-2.51-1.54	1.310-72	1.860-65	-1.272-47	3.891-13	2.881-91	1.52-55	0.250-83	-1.56-1.87			
Theta (90°)	-1.85-4.25	-2.24-5.37	-4.41-5.52	-7.8-7.96	-6.38-5.21	-9.11-10.23	-9.59-9.46	-10.53-5.52	-6.6-9.08	-5.21-2.93	-4.37-2.7	-2.01-1.74	-0.63-1.69	-1.13-3.18	-0.610-51	-2.51-1.54	1.310-72	1.860-65	-1.272-47	3.891-13	2.881-91	1.52-55	0.250-83	-1.56-1.87			
Theta (97.5°)	-3.07-3.34	-4.11-5.49	-5.6-9.2	-10.23-7.71	-5.47-5.53	-7.53-7.72	-7.97-9.12	-8.83-7.54	-5.47-5.46	-3.59-3	-3.32-1.92	-1.82-1.89	-1.12-0.43	-0.36-1.16	-0.460-2	-4.81-1.29	1.310-8	2.611-76	0.892-94	3.372-9	3.350-38	-0.462-21	0.3-0.11	-1.43-1.22			
Theta (105°)	-2.71-3.61	-2.93-4.12	-4.97-9.91	-7.37-10.62	-7.23-2.25	-5.57-3.1	-8.31-10.65	-9.17-7.4	-6.49-4.87	-4.13-4.42	-3.32-2.68	-1.53-1.83	-1.98-0.88	0.16-0.82	-0.61-0.37	-1.44-1	2.290-08	1.583-22	4.663-4	1.771-84	3.170-3	2.52-18	0.673-94	-0.91-1.9			
Theta (112.5°)	-4.63-6.09	-6.87-5	-4.79-4.52	-4.03-7.25	-11.66-9.38	-7-7.47	-7.54-8.68	-8.11-5.95	-5.74-7.86	-8.34-5.41	-4.66-4.16	-4.99-1.8	-1.69-0.39	-0.73-1.85	0.74-1.53	-0.25-1.84	-2.280-49	1.83-1.89	1.214-12	4.130-97	30-35	-3.762-55	0.36-1.45	-0.92-2.43			
Theta (120°)	-5.74-3.84	-5.07-5.69	-8.16-9.1	-5.67-6.96	-8.93-6.65	-6.23-6.69	-7.71-5.95	-6.61-8.52	-8.03-8.92	-7.87-7.65	-5.6-4.91	-4.04-3.9	-4.97-1.5	-0.13-1.5	1.94-0.96	0.091-2	-1.210-77	3.04-1.4	0.883-13	3.07-1.75	2.12-2.57	-4.770-16	1.49-2.55	-2.37-4.75			
Theta (127.5°)	-5.71-5.47	-6.78-7.46	-4.25-5.23	-6.04-7.82	-8.91-9.14	-10.09-9.43	-8.3-7.73	-7.97-9.18	-8.88-6.96	-5.31-5.62	-4.07-4.32	-3.06-4.17	-3.02-1.39	-0.27-0.38	0.98-1.12	0.620-44	-3.72-1.33	0.1-1.71	3.053-03	1.271-84	-1.26-2.97	-0.40-2.31	-0.22-3.39	-2.74-2.27			
Theta (135°)	-6.08-7.45	-6.3-6.59	-6.97-8.27	-9.45-9.78	-10.13-10.81	-10.06-9.66	-10.66-11.1	-9.06-7.18	-4.36-2.9	-3.36-4.86	-4.41-1.83	-1.45-1.52	-1.51-1.56	-2.99-1.76	-1.41-1.21	-0.44-1.33	-4.64-5.58	-1.47-1.98	-1.981-65	0.01-5.9	-3.67-7.66	-1.52-0.51	-0.9-3.87	-6.81-9.47			
Theta (142.5°)	-5.27-5.38	-6.61-8.31	-7.41-5.97	-7.02-8.85	-9.48-9.7	-8.65-7.02	-7.17-7.49	-5.22-3.71	-3.84-4.63	-5.57-5.61	-4.08-2.38	-2.14-2.47	-2.88-2.94	-3.32-3.22	-2.83-1.55	-1.97-5.89	-7.53-4.04	-3.26-4.51	-1.020-74	-2.72-2.64	-5.29-0.98	-4.98-5.73	-3.57-1.58	-2.52-3.99			
Theta (150°)	-3.19-3.77	-4.93-6.04	-7.46-7.99	-8.58-8.67	-8.36-9.05	-9.91-10.85	-10.42-10.85	-8.24-6.21	-5.04-3.47	-1.87-1.23	-1.76-2.61	-3.56-4.38	-3.87-3.39	-3.03-2.61	-3.45-4.76	-6.53-7.33	-5.77-5.44	-4.39-2.55	-1.24-1.97	-3.61-6.69	-6.84-3.88	-3.08-2.63	-3.99-3.8				
Theta (157.5°)	-7.51-7.51	-7.69-7.79	-6.63-7.16	-8.34-8.62	-8.27-8.99	-10.74-12.56	-12.06-12.35	-11.2-8.26	-5.93-4.18	-2.47-1.3	-0.85-0.58	-0.95-2.08	-2.91-3.25	-3.17-3.35	-4.57-5.28	-6.22-7.33	-8.34-7.42	-6.65-5.92	-3.97-1.89	-1.29-2.59	-3.92-4.3	-4.41-4.82	-6.07-7.86	-10.14-9.79			
Theta (165°)	-4.51-3.12	-3.08-3.76	-4.62-5.2	-5.83-6.32	-7.48-9.14	-11.52-11.32	-11.28-10.84	-8.98-7.13	-5.76-5.41	-5.65-6.06	-5.85-4.78	-3.82-3.13	-3.08-3.39	-3.93-3.58	-2.76-2.34	-2.81-4.69	-7.52-9										



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Table with columns for Frequency (Freq), Theta, and various Phi angles (Phi(0) to Phi(35)). Rows are organized by frequency bands: 6.175GPol, 6.475GPol, and 6.695GPol. Each row represents a specific theta angle, and the columns represent the gain in dBm for each phi angle.



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

	Φ(22.5°)	Φ(30°)	Φ(45°)	Φ(52.5°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)	
Φ(22.5°)	-3.21/4.08	-5.94/6.86	-7.2/6.97	-7.33/6.36	-6.55/6.03	-5.71/4.99	-3.73/2.66	-2.55/2.77	-2.79/2.67	-3.1/3.87	-4.41/4.7	-5.5/5.93	-6.9/7.27	-6.15/2.22	-5.62/6.07	-6.77/7.22	-7.4/6.56	-4.85/4.38	-4.2/4.3	-4.39/4.36	-4.36/4.27	-4.89/6.05	-6.43/4.84	-4.06/3.07	
Φ(30°)	-4.46/5.88	-6.14/6.62	-6.14/5.81	-6.12/6.35	-6.61/7.35	-7.71/7.03	-6.3/5.44	-4.19/3.37	-2.71/2.89	-3.31/3.88	-4.17/4.52	-4.77/5.57	-7.45/8.84	-10.06/9.59	-8.41/8.15	-7.4/6.68	-5.84/4.1	-3.13/3.09	-3.73/4.57	-4.25/3.28	-3.32/3.99	-3.69/4.17	-5.28/7.2	-7.75/5.24	
Φ(45°)	-4.91/4.58	-4.22/4.16	-4.44/6.7	-5.71/7.72	-8.11/8.02	-10.22/10.2	-6.49/5.42	-4.25/3.05	-2.11/2.36	-2.68/2.26	-2.72/3.11	-2.9/3.55	-5.17/7.63	-7.9/7.41	-6.19/4.33	-4.37/6.48	-6.13/5.31	-4.65/3.61	-3.56/4.3	-5.64/4.63	-3.73/3.43	-4.53/3.42	-5.05/6.79	-6.23/5.86	
Φ(52.5°)	-5.72/5.58	-4.69/5.03	-5.38/6.71	-6.68/6.54	-6.3/8.02	-8.06/7.18	-7.37/6.34	-5.52/5.15	-4.53/4.28	-4.65/3.93	-3.54/3.71	-3.48/3.52	-5.17/6.89	-6.27/6.1	-6.92/6.19	-5.29/4.79	-6.19/5.74	-5.79/4.53	-6.15/4.59	-4.32/3.24	-5.58/4.83	-4.97/3.91	-4.14/3.08	-3.43/3.62	
Φ(60°)	-1.27/3.59	-4.29/3.98	-4.83/5.38	-6.02/6.21	-6.12/5.98	-6.51/5.51	-4.28/5.06	-6.44/6.85	-5.77/6.7	-5.67/3.89	-3.29/3.61	-5.38/5.26	-6.87/6.38	-4.06/3.4	-5.89/6.36	-5.77/3.7	-2.79/4.83	-5.44/4.6	-2.77/2.99	-4.44/3.92	-4.44/3.92	-1.71/1.69	-2.26/2.63	-0.49/0.26	-0.69/0.71
Φ(75°)	-3.02/4.48	-5.24/4.85	-4.81/3.83	-3.75/2.26	-4.48/2.92	-4.36/1.19	-5.66/5.37	-5.66/4.92	-5.78/5.55	-4.71/4.24	-3.07/1.35	-2.31/1.48	-1.96/0.323	-2.07/1.96	-2.21/4.81	-4.27/2.01	-1.79/2.32	-1.83/2.73	-2.29/0.83	-2.29/1.69	-0.16/0.52	-3/0.107	-0.38/1.67	-2.84/2.7	
Φ(90°)	-2.93/3.45	-3.34/3.87	-4.15/4.07	-5.1/5.27	-4.22/5.64	-8.73/10.62	-10.34/7.87	-5.92/3.49	-5.04/8.52	-6.97/4.28	-4.36/3.62	-3.65/3.32	-2.73/1.1	-1.15/1.63	-0.93/2.41	-4.21/4.14	-2.89/1.47	-0.96/2.54	-1.73/2.56	0.1/0.51	0.22/1.17	-2.39/1.69	0.020/39	-1.45/2.58	
Φ(105°)	-3.3/4.44	-3.68/3.18	-4.05/5.24	-6.54/5.62	-6.31/8.01	-7.26/4.2	-4.31/4.3	-4.09/5.87	-4.86/5.3	-6.4/8.8	-3.56/2.22	-1.96/2.97	-4.27/3.53	-2.46/2.12	-1.07/2.31	-1.56/1.29	-1.19/0.66	-1.11/1.79	-1.47/0.9	0.97/0.73	1.52/0.61	-0.04/1.38	0/26	-2.57/1.66	
Φ(120°)	-2.32/3.88	-3.79/2.04	-2.38/5.12	-6.25/4.23	-5.24/5.63	-5.4/5.66	-7.94/6.78	-3.7/6.01	-4.01/3.6	-7.53/5.66	-3.38/3.61	-3.29/4.01	-1.97/1.23	-0.66/0.22	-0.54/0.15	-1.62/2.11	-0.22/1.75	-1/1.48	-1.27/0.43	1.43/1.83	1.94/0.03	0.38/1.26	0.97/1.15	-1.34/1.21	
Φ(135°)	-1.36/2.04	-2.22/2.3	-0.75/2.18	4.93/6.73	-7.37/3.72	-4.42/7.54	9.63/8.25	5.41/7.15	6.83/4.92	4.53/3.75	2.27/4.17	2.79/4.31	1.7/0.93	0.22/1.33	0.87/0.94	1.84/2.65	0.6/0.13	0.29/1.1	3.96/0.45	1.01/0.01	0.46/1.01	0.22/0.03	0.42/0.19	-2/1.67	
Φ(150°)	-2.59/2.55	-1.88/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	-1.98/2.32	
Φ(165°)	-2.03/4.74	-3.6/5.24	-3.31/4.43	-5.95/6.02	-4.37/7.35	-4.10/7.94	-7.39/9.76	-10.88/8.77	-5.44/4.26	-3.93/6.88	-4.68/3.95	-1.87/2.97	-2.02/2.6	-1.77/3.57	-2.38/2.22	-2.47/1.34	-1/1.63	-1.44/0.13	0.61/1.69	0.31/3.63	2.70/3.2	1.04/0.78	-1.12/1.27		
Φ(180°)	-2.95/5.13	-3.28/5.02	-4.56/6.08	-9.18/7.39	-5.79/7.15	-6.66/7.49	-9.47/10.08	-7.57/6.17	-5.92/7	-6.71/4.54	-4.63/5.62	-4.05/4.47	-2.94/2.17	-2.63/4.95	-2.33/1.87	-4.78/2.14	-2.75/2.77	-0.58/1.47	-2.77/0.7	0.51/0.66	-0.38/3.29	-1.51/0.7	-1.25/3.82	-2.04/4.81	
Φ(195°)	-3.14/4.15	-3.43/3.75	-6.05/6.13	-7.76/7.76	-4.79/3.91	-6.77/8.51	-9.37/6.98	-6.87/6.16	-6.53/7.27	-6.87/6.85	-7.89/7.5	-8.15/7.91	-5.49/4.41	-3.99/4.59	-1.03/0.12	-4.62/0.34	-0.57/3.76	0.08/1.05	-1.64/0.68	0.06/1.04	-0.65/3.73	-0.88/3.29	-1.27/0.54		
Φ(210°)	-4.54/4.47	-5.47/4.12	-7.13/7.11	-5.9/5.24	-6.26/6.44	-7.4/10.7	-8.37/5.91	-4.8/4.41	-5.92/5.56	-6.28/7.37	-6.57/5.33	-6.29/6.17	-5.44/4.48	-2.1/4.14	-1.09/1.75	-2.32/1.57	-4.15/4.43	-0.13/0.09	-2.31/3.17	-3.49/2.79	-4.99/3.09	-2.43/6.63	-2.99/4.21		
Φ(225°)	-4.06/5.84	-7.85/7.76	-6.75/6.93	-9.13/9.29	-7.71/6.97	-7.18/7.94	-7.9/6.94	-5.45/4.39	-5.43/6.71	-5.73/4.73	-4.66/3.87	-5.21/5.54	-4.56/2.91	-1.78/2.49	-1.96/3.16	-2.97/4.5	-7.39/4.79	-1.8/0.45	-2.3/4.53	-4.64/5.05	-5.54/4.88	-6.01/3.75	-5.22/5.07	-4.46/4.03	
Φ(240°)	-5.43/6.13	-7.09/7.4	-7.88/8.1	-7.89/8	-8.78/10.8	-10.22/8.88	-7.49/5.27	-3.85/5.38	-5.33/3.39	-4.08/4.41	-3.83/4.58	-4.13/4.34	-3.25/3.72	-1.98/2.21	-3.33/4.04	-5.1/6.06	-4.47/5.24	-2.23/3.06	-5.66/7	-4.08/3.57	-5.95/5.22	-6.27/3.57	-4.3/4.47	-5.9/5.54	
Φ(255°)	-4.81/4.52	-4.64/5.77	-5.76/5.52	-7.3/7.48	-9.17/9.46	-9.27/10.49	-10.97/9.13	-4.71/8.99	-5.57/3.67	-3.2/9.6	-3.61/3.93	-3.65/3.36	-3.23/3.42	-3.44/4.18	-5.2/5.74	-6.97/8.98	-4.77/4.84	-4.04/2.78	-4.41/7.24	-7.69/5.65	-6.07/4.72	-5.77/3.52	-2.98/1.77	-5.7/5.49	
Φ(270°)	-3.28/4.29	-4.28/4.36	-4.53/5.61	-6.95/8.79	-10.28/11.83	-12.07/12.21	-11.7/12.26	-11.86/10.91	-8.2/5.97	-4.14/3.47	-4/5.39	-6.99/7.38	-7.17/7.65	-6.54/5.35	-4.54/5.15	-7.21/8.42	-7.54/6.1	-5.34/5.24	-6.6/7.45	-6.35/6.37	-7.06/6.62	-5.8/5.56	-5.39/5.32	-4.16/3.01	
Φ(285°)	-4.09/3.36	-3.97/4.2	-5.12/5.64	-7.65/7.91	-9.06/11.16	-12.12/12.4	-10.91/10.7	-10.61/10.3	-9.68/6.63	-7.96/6.04	-7.89/6.28	-8.29/8.25	-6.79/5.74	-4.58/4.1	-3.59/3.84	-3.93/4.28	-4.43/4.29	-4.24/4.98	-6.7/7.77	-8.96/8.33	-8.01/6.69	-5.6/5.68	-5.76/5.81	-5.5/4.78	
Φ(300°)	-10.78/11.82	-11.6/10.24	-8.1/6.64	-6.69/7.43	-8.41/9.2	-9.72/10.01	-9.88/9.37	-8.54/8.21	-7.2/6.3	-5.62/6.21	-6.4/6.25	-5.96/6.49	-6.88/6.4	-5.67/5.23	-4.52/3.87	-3.91/4.44	-5.79/7.25	-8.93/8.6	-8.07/7.47	-6.79/7.27	-7.85/6.13	-8.94/9.42			
Φ(315°)	-6.4/5.76	-6.76/5.27	-5.6/5.71	-6.87/7.27	-7.62/8.01	-8.53/9.12	-9.98/8.73	-8.96/9.54	-9.39/9.71	-9.08/8.44	-7.49/6.61	-5.98/5.48	-5.44/5.74	-6.04/6.03	-5.76/5.68	-6.14/6.72	-7.51/8.41	-9.68/11.43	-12.35/12.57	-12.46/12.25	-10.46/8.88	-8.08/7.97	-8.99/8.98	-8.49/7.45	
Φ(330°)	6.95GPol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Φ(0°)	-2.82/3.3	-2.82/2.86	-2.78/3.35	-3.71/4.37	-4.7/4.88	-5.5/6.72	-7.66/7.67	-8.85/10.52	-10.86/10.06	-8.79/7.43	-6.45/5.95	-5.34/5.05	-4.61/4.53	-4.32/4.45	-4.58/4.76	-4.48/4.62	-5.12/5.71	-6.93/7.86	-8.2/8.04	-7.55/6.18	-8.38/8.19	-7.06/5.75	-4.48/3.7	-3.27/3.05	
Φ(7.5°)	-4.42/4.68	-5.46/4.45	-4.57/4.11	-4.4/2.6	-4.68/4.73	-5.03/5.21	-5.59/5.93	-6.21/6.69	-7.26/6.88	-6.25/3.36	-4.21/3.32	-2.89/2.41	-2.23/2.42	-2.58/2.82	-2.91/2.93	-3.22/3.05	-3.24/3.94	-4.23/4.94	-6.32/8.33	-10.22/11.6	-12.37/11.86	-9.96/8.13	-6.51/5.59	-4.97/4.85	
Φ(15°)	-5.09/4.51	-4.01/3.39	-3.61/3.98	-4.16/4.22	-5.14/5.03	-6.54/5.76	-8.64/5.55	-5.48/5.2	-5.04/5.53	-5.98/5.65	-4.64/3.6	-2.82/2.34	-2.19/2.59	-2.59/2.93	-3.3/3.44	-3.43/3.47	-4.1/4.92	-5.69/6.56	-7.08/7.67	-8.36/7.75	-6.57/5.95	-5.21/5.44	-5.68/5.35		
Φ(22.5°)	-4.59/3.8	-4/3.51	-2.95/2.52	-2.78/3.09	-3.45/2.92	-2.86/3.12	-3.61/3.52	-3.58/3.84	-4.33/4.12	-6.35/6.42	-5.94/5.82	-5.07/3.9	-2.96/2.93	-3.14/3.2	-3.23/3.23	-3.24/3.43	-2.88/2.5	-3.09/4.18	-4.72/5.61	-6.4/6.75	-6.9/6.67	-5.18/4.99	-5.45/6.2	-6.67/5.84	
Φ(30°)	-3.78/3.43	-2.56/2.23	-2.27/1.87	-2.44/2.06	-1.71/2.05	-2.56/2.24	-1.75/1.67	-1.94/2.29	-2.72/2.29	-4.59/4.52	-6.38/5.44	-5.04/3.88	-2.88/2.45	-1.74/1.1	-0.54/0.73	-0.85/1.06	-1.08/1.28	-2.31/3.93	-4.14/4.48	-5.46/5.55	-5.31/5.07	-3.94/4.48	-4.63/4.71	-5.64/3.1	
Φ(37.5°)	-1.23/2.16	-2.18/1.29	-0.5/0.03	-0.28/0.54	-1.02/1.45	-1.32/0.96	0.23/0.75	-0.24/1.69	-2.37/3.26	-5.01/5.96	-5.06/3.84	-3.87/4.12	-3.91/3.27	-1.85/0.26	0.43/1.47	-2.82/2.67	-1.61/1.62	-3.18/3.07	-3.75/3.64	-2.68/2.71	-3.46/4.29	-3.74/0.1	-2.36/1.69	-1.52/0.7	
Φ(45°)	-2/2.2	-1.8/0.78	0.44/0.43	-0.03/0.18	0.21/0.18	0.55/0.64	0.5/0.34	-1.32/0.62	-3.94/4.9	-4.62/5.38	-3.83/3.27	-2.47/3.04	-3.46/4.44	-3.51/2.92	-3.31/3.57	-1.15/0.64	0.77/1.16	-2.96/1.58	0.27/0.82	-0.52/1.24	-1.5/2.42	-4.17/4.79	-4.2/2.81	-1.09/1.41	
Φ(52.5°)	-2.38/1.95	-1.02/0.21	0.72/0.42	0.22/0.14	0.32/0.16	-0.99/0.53	1.98/2.09	0.5/2.04	-2.47/2.98	-4.34/4.3	-3.07/3.41	-1.65/0.64	-0.47/1.24	-2.02/3.1	-2.67/1.14	-1.27/0.55	-0.07/0.51	0.54/0.38	-1.07/0.96	-0.52/1.18	-1.69/1.66	-3.71/4.86	-4.83/5.09	-4.01/2.43	
Φ(60°)	-0.1/0	-0.37/1.02	-0.63/0.04																						

Theta	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°)																								
Theta(45°)	-3.39/3.99	-4.36/3.89	-3.71/3.12	-2.52/3.49	-4.2/3.88	-3.5/2.91	-2.67/1.93	-1.2/0.65	-1.27/2.16	-1.09/0.39	-1.49/1.97	-0.88/0.75	-1.69/1.45	-0.64/1.66	4.62/5.47	-5.5/3.97	-3.49/5.18	-7.63/5.15	-5.69/5.9	-4.89/3.64	-5.66/6.89	-7.11/8.1	-8.98/8.5	-7.27/4.46																								
Theta(52.5°)	-4.58/4.4	-3.49/3.13	-3.19/4	-4.68/4.34	-4.2/3.5	-2.14/2.29	-2.07/1.98	-1.15/0.48	-0.55/0.55	-0.40/46	-0.23/2.47	-1.19/1.16	-2.13/0.44	0.53/0.28	-1.67/3.09	-2.89/1.55	-1.31/3.26	-6.56/7.73	-5.86/5.07	-3.96/6.53	-5.84/5.44	-6.98/8.73	-8.54/8.32	-5.99/4.36																								
Theta(60°)	-1.22/2.06	-2.67/1.88	-2.69/3.07	-3.28/3.82	-4.42/2.79	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15	-2.39/2.41	-1.01/1.15																								
Theta(67.5°)	-5.32/3.1	-3.43/2.65	-1.91/3.05	-3.67/5.58	-4.43/1.85	-0.49/0.26	-1.27/1.81	-2.34/1.88	-0.93/0.14	1.01/0.09	-0.33/0.7	-0.54/0.64	-0.29/0.32	0.87/0.49	-0.58/2.14	-4.35/3.75	-2.54/1.61	-2.71/4.62	-6.26/6.66	-4.02/7.42	-6.92/3.73	-3.69/4.01	-4.38/4.36	-4.65/5.26																								
Theta(75°)	-6.48/4.65	-3.36/2.04	-1.86/1.82	-2.34/3.05	-3.21/1.35	-0.61/0.35	-0.39/0.83	-0.95/0.6	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27	0.18/0.27																								
Theta(82.5°)	-5.45/5.01	-3.36/3.21	-2.79/3.17	-4.97/5.55	-3.72/1.03	-0.11/0.22	-0.95/1.18	-2.54/0.32	0.03/0.28	1.34/1.46	0.04/0.18	-0.43/0.1	0.73/0.97	1.09/0.36	0.11/0.23	-4.68/6.37	-1.07/2.05	-3.76/6.61	-4.29/3.56	-2.74/4.63	-3.48/3.99	-5.52/7.14	-11.58/10.74	-9.25/4.4																								
Theta(90°)	-7.02/4.5	-2.89/3.27	-4.26/5.03	-4.67/3.41	-1.97/0.06	0.1/0.6	-0.87/1.09	-1.57/0.21	-0.82/1.6	0.13/0.9	0.1/0.9	0.44/0.42	-0.18/0.71	-0.24/1.8	-0.43/0.42	-0.59/3.74	-1.26/2.04	-2.57/5.29	-6.64/2.34	-1.32/6.39	-3.25/4.56	-5.26/3.87	-9.63/7.7	-7.09/6.88																								
Theta(97.5°)	-7.5/5.31	-4.54/5.93	-6.54/6.19	-4.13/1.92	-1.15/0.03	0.17/0.6	-0.47/1.1	-1.43/0.89	-1.04/1.49	-0.31/0.14	0.31/1.5	0.47/0.28	-0.24/0.96	-0.47/1.84	-0.06/0.68	-6.93/3.91	-1.41/1.4	-2.08/1.42	-2.78/0.02	-1.75/5.93	-2.46/6.79	-7.24/5.35	-9.3/8.82	-8.29/4.59																								
Theta(105°)	-6.85/5.05	-3.95/6.5	-6.34/4.84	-4.2/2.8	-2.12/1.17	-0.73/0.78	-0.63/0.77	-0.57/0.31	-0.05/0.71	-0.75/0.41	0.23/1.19	0.38/0.03	-0.76/1.64	-1.38/1.79	-0.45/2.34	-7.52/4.33	-3.5/3.27	-3.59/3.81	0.11/0.62	-1.68/0.57	-3.37/6.2	-8.78/4.03	-8.33/6.83	-5.73/4.04																								
Theta(112.5°)	-7.38/6.84	-5.48/4.26	-2.43/2.53	-2.08/1.98	-2.41/3.34	-3.43/3.77	-2/1.07	-0.45/0.73	-0.47/2.37	-3.6/1.5	-0.95/0.74	-1.48/0.13	-0.02/0.04	0.93/1.57	-1.59/4.56	-4.33/2.38	-2.52/2.77	-5.72/5.35	-0.62/1.43	-2.59/5.22	-2.85/5.31	-11.03/3.96	-7.24/6.45	-4.94/4.94																								
Theta(120°)	-5.57/5.08	-2.89/3.49	-3.59/2.5	-1.66/2.28	-3.66/4.03	-4.16/4.44	-2.41/0.38	-2.73/2.77	-2.14/2.09	-2.04/2.1	-2.02/0.48	-0.13/0.25	0.61/0.68	-1.92/1.98	-2.14/1.67	-1.75/3.91	-0.34/0.61	-1.41/1.05	-3.43/5.08	-8.87/5.47	-4.28/6.24	-6.96/8.7	-8.29/4.59	-6.96/8.7																								
Theta(127.5°)	-6.24/6.04	-5.09/3.82	-3.01/2.59	-3.19/4.48	-6.27/6.82	-6.65/4.06	-2.51/1.77	-2.04/2.4	-2.12/1.57	-1.43/0.94	-0.94/1.34	-1.33/1.08	-0.76/0.28	0.87/0.71	0.06/0.77	-1.92/2.79	-5.21/7.53	-9.91/7.77	-1.35/0.79	-2.44/1.14	-4.18/4.57	-8.67/5.01	-5.24/6.61	-4.69/4.81																								
Theta(135°)	-5.68/5.56	-5.48/4.83	-5.25/5.91	-5.95/6.22	-8.2/10.54	-8.27/4.73	-2.97/2.96	-2.39/1.65	-0.81/0.27	0.46/0.05	-0.15/0.15	-0.12/0.81	-0.68/0.55	-1/1.59	-0.29/1.23	-1.79/3.04	-4.03/8.41	-7.81/6.33	-3.67/0.05	-1.2/1.66	-6.88/11.74	-3.92/2.21	-3.82/7	-5.96/5.41																								
Theta(142.5°)	-5.87/6.05	-5.92/7.88	-7.69/7.26	-7.18/7.83	-7.58/8.46	-6.57/4.04	-3.19/2.29	-1.85/0.71	-0.49/1.56	-2.69/2.98	-2.4/1.8	-1.96/2.46	-3.11/3.15	-4.6/3.55	-2.99/2.44	-1.81/4.53	-6.47/4.22	-4.09/3.56	-1.03/0.2	-1.04/0.75	-8.75/9.25	-6.3/6.75	-5.51/3.2	-3.4/3.9																								
Theta(150°)	-7.75/8.3	-8.13/7.89	-8.89/8.15	-9.31/8.94	-8.87/10.57	-11.23/10.35	-8.75/7.55	-5.95/3.91	-2.88/1.91	-1.04/0.59	-0.91/1.68	-2.4/2.36	-2.41/3.22	-3.35/2.28	-3.56/4.49	-6.11/6.06	-6.91/6.97	-5.4/5	-6.49/2.48	-1.74/3.2	-6.89/10.49	-9.28/6.16	-4.95/4.48	-5.98/7.1																								
Theta(157.5°)	-10.09/10.04	-10.12/10.24	-8.96/10.44	-11.16/9.85	-8.16/8.04	-8.88/9.82	-9.83/9.39	-8.24/5.87	-4.08/2.86	-1.45/0.03	0.95/1.61	1.71/1.03	-0.47/2.5	-3.3/4.18	-5.48/6.24	-6.04/6.22	-8.54/9.65	-8.27/8.6	-4.32/2.07	-1.37/2.97	-5.72/7.42	-8.3/8.33	-7.67/7.33	-8.81/10.34																								
Theta(165°)	-4.84/3.99	-3.85/4.81	-6.09/6.76	-7.44/7.15	-7.81/8.43	-11.12/11.92	-11.33/10.96	-9.32/7.66	-6.37/5.22	-5.45/5.03	-1.61/1.41	-1.55/1.16	-1.74/1.92	-1.93/2.37	-3.52/5.34	-6.9/7.64	-6.18/4.53	-6.08/4.22	-4.09/3.56	-1.03/0.2	-1.04/0.75	-8.28/10.42	-10.55/10.4	-7.99/5.45																								
Theta(172.5°)	-10.09/10.04	-10.12/10.24	-8.96/10.44	-11.16/9.85	-8.16/8.04	-8.88/9.82	-9.83/9.39	-8.24/5.87	-4.08/2.86	-1.45/0.03	0.95/1.61	1.71/1.03	-0.47/2.5	-3.3/4.18	-5.48/6.24	-6.04/6.22	-8.54/9.65	-8.27/8.6	-4.32/2.07	-1.37/2.97	-5.72/7.42	-8.3/8.33	-7.67/7.33	-8.81/10.34																								
Theta(180°)	-9.2/7.69	-5.69/5.01	-4.94/5.65	-6.77/7.53	-8.79/8.38	-8.84/9.36	-9.29/8.85	-10.87/9.28	-9.35/9.16	-8.91/8.72	-7.29/6	-2.34/4.34	-4.43/4.72	-5.08/5.67	-6.23/6.4	-6.73/7.49	-7.8/7.97	-8.15/8.48	-9.28/9.66	-10.43/11.12	-10.52/11.36	-12.38/11.84	-11.37/10.42																									
Freq(Hz)	6475GPol.	Phi	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(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°)	-6.98/7.49	-6.79/6.58	-6.69/6.95	-7.44/7.06	-7.22/7.46	-7.61/8.05	-8.36/8.03	-7.9/8.14	-7.93/7.35	-7.1/7	-6.56/6.08	-5.65/5.28	-5.19/5.09	-5.29/5.69	-5.93/6.63	-7.03/7.74	-7.69/7.96	-8.65/9.37	-9.3/9.71	-8.93/8.56	-8.59/9.12	-8.54/7.64	-7.18/7.14	-7.5/7.36																								
Theta(7.5°)	-3.84/4.5	-5.15/5.67	-5.96/6.81	-7.31/7.37	-7.9/8.84	-8.7/8.84	-8.67/8.66	-7.91/8.17	-8.24/8.55	-8.75/9.08	-9.09/8.97	-8.67/8.83	-9.11/8.72	-7.8/7.24	-6.5/6.3	-5.32/6.11	-5.35/5.27	-5.67/6.03	-5.9/5.37	-5.3/5.17	-5.35/5.33	-5.21/5.02	-4.63/4.1	-3.66/3.75																								
Theta(15°)	-3.88/4.11	-4.61/5.02	-4.15/4.36	-3.81/3.93	-4.46/5.72	-5.88/6.19	-6.86/6.68	-6.62/6.57	-7.03/6.01	-9.24/9.75	-9.42/8.48	-7.91/7.44	-6.92/5.98	-5.02/4.43	-3.63/3.13	-2.26/1.85	-1.82/1.91	-2.09/2.33	-2.71/3.47	-3.77/3.78	-3.79/3.97	-3.78/3.78	-3.68/3.31	-2.99/3.44																								
Theta(22.5°)	-4.71/4.71	-4.31/3.95	-3.1/2.43	-2.99/4.16	-4.83/5.7	-6.74/7.12	-6.95/6.63	-7.03/7.12	-6.68/6.37	-6.54/7.72	-8.18/7.66	-6.99/5.85	-4.45/3.47	-2.73/2.05	-1/0.22	-0.4/0.46	-1.09/1.69	-2.59/3.24	-3.74/4.66	-5.29/5.49	-5.01/4.66	-3.86/3.61	-3.37/3.34	-3.18/3.63																								
Theta(30°)	-2.89/2.46	-1.52/1.51	-2.53/3.67	-4.18/4.23	-3.79/3.85	-3.7/3.98	-3.92/4.18	-4.54/5.19	-7/7.39	-6.98/6.44	-5.72/4.06	-2.83/2.16	-1.74/1.32	-0.7/0.05	-0.05/0.01	-0.4/0.46	-0.7/0.59	-1.38/3.43	-5.07/5.03	-5/5.16	-5.45/4.83	-4.11/3.59	-3.1/2.21	-1.65/1.96																								
Theta(37.5°)	-2.94/3.72	-3.55/4.72	-6.42/7.68	-8.23/7.51	-5.63/4.14	-3.29/3.1	-2.81/3.58	-4.4/5.34	-5.89/6.69	-5.7/4.54	-4.4/3.96	-2.44/1.47	-1.38/0.65	0.87/1.86	1.82/1.83	1.38/0.16	-0.37/0.26	-0.54/0.43	-1.05/1.91	-1.98/2.16	-2.69/2.59	-2.75/2.83	-2.07/1.55	-0.84/1.52																								
Theta(45°)	-4.72/6.26	-5.7/5.26	-4.18/6.56	-7.29/6.59	-4.02/3.65	-4.16/4.41	-3.91/3.18	-3.19/3.36	-3.4/3.89	-5.2/6.6	-6.86/6.35	-4.45/3.72	-2.85/0.72	0.89/1.69	1.53/1.29	1.44/1.23	2.18/2.57	2.41/1.12	0.68/0.76	0.24/0.32	-1.07/3.08	-3.39/3.06	-3.41/3.59	-2.6/2.97																								
Theta(52.5°)	-2.78/3.92	-4.15/3.32	-1.8/3.42	-5.66/4.94	-2.84/2.31	-2.84/3.74	-3.55/3.06	-2.12/2.09	-2.77/4.06	-5.72/5.66	-5.23/4.37	-4.60/4.28	-5.15/2.46	-0.61/0.04	-0.71/0.37	1.85/3.19	4.15/3.93	3.53/0.05	2.41/1.95	1.46/0.61	-2.61/2.45	-2.51/4.02	-3.97/3.12	-1.65/1.96																								
Theta(60°)	-2.78/4.53	-2.84/2.54	-1.33/2.63	-4.23/4.01	-3.96/2.97	-2.8/3.15	-1.64/1.24	-2.99/2.98	-3.18/3.16	-5.48/4.78	-5.77/5.68	-5.43/4.34	-5.68/4.85	-2.11/0.39	0.07/1.06	2.79/3.76	3.92/3.52	3.76/2.88	1.26/1.31	0.71/1.64	-2.04/0.3	-1.31/1.66	-3.24/3.91	-2.73/2.22																								
Theta(67.5°)	-2.06/2.72	-3.72/4.67	-4.48/3.13	-2.37/3.06	-3.42/3.68	-3.46/3.32	-2.75/2.06	-2.18/2.14	-4.09/2.54	-2.49/3.02	-4.45/4.08	-4.33/3.91	-4.15/5.65	-2.4/0.71	-0.02/0.2	0.88/2.71	3.96/3.39	2.18/0.99	-0.85/0.55	-1.16/3.44	-1.87/3	-2.2/2.36	-3.24/2.64	-1.02/1.38																								
Theta(75°)	-2.31/2.35	-3.15/2.18	-2.88/3.19	-4.04/1.84	-1.18/1.8	-2.56/3.38	-3.88/4.31	-2.3/0.51	-2.54/4.62	-3.85/4.66	-4.26/4.49	-4.9/4.83	-4.66/6.22	-2.62/0.61	0.44/0.03	0.56/1.77	3.98/3.98	0.1/1.92	-0.32/0.4	-2.7/4.56	-2.02/1.74	-2.23/1.96	-3.15/4.06	-3.64/1.99																								
Theta(82.5°)	-3.41/3.1	-2.77/2.93	-3.1/2.4	-1.92/1.39	-1.66/2.66	-3.86/3.63	-3.3/3.88	-4.69/1.99	-2.3/3.29	-2.95/3.79	-3.95/4.02	-4.92/4.97	-5.84/3.78	-3.7/0.46	1.01/0.67	-1.49/0.04	0.54/1.67	-0.98/7.13	-4.13/0.85	-0.25/2.17	-1.64/1.62	-3.26/2.73	-2.01/3.41	-2.86/2.15																								
Theta(90°)	-3.45/3.42	-2.59/1.58	-2.71/3.43	-3.61/3.93	-3.53/1.78	-1.92/3.79	-2.99/4.04	-4.02/2.73	-2.3/4.08	-3.92/4.25	-3.33/3.06	-4.83/5.42	-5.41/2.82	-3.16/1.71	-0.58/3.22	-1.55/1.09	1.02/0.91	0.09/3.57	-0.71/0.42	0.57/1.7																												



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

θ (deg)	-4.81-3.57	-3.63-2.77	-2.73-3.09	-4.03-1.47	-0.32-0.77	-1.21-0.05	-0.52-0.72	0.26-0.84	0.99-0.26	0.44-0.42	0.59-0.13	-0.73-1.52	-0.42-0.82	0.06-0.3	-0.9-2.48	-5.51-5.62	-5.2-3.51	-6.3-9	-5.71-6.12	-6.56-8.2	-5.56-7.74	-5.87-9.31	-4.65-6.03	-2.71-4.96
θ (90°)	-5.49-5.65	-5.39-6.57	-5.74-4.49	-3.86-3.99	-2.44-1.77	-2.86-1.81	-0.60-1.3	0.59-0.67	0.08-0.95	0.67-1.13	1.59-0.38	0.54-0.66	1.05-0.17	0.45-1.01	-1.09-1.26	-3.14-7.48	-5.2-3.27	-3.06-7.94	-9.19-3.01	-1.74-6.32	-3.92-5.65	-4.18-5.55	-10.69-9.88	-6.47-5.32
θ (97.5°)	-11.26-10.32	-9.3-6.1	-6.19-6.62	-6.67-3.19	-2.13-2.36	-2.44-0.77	-0.17-0.78	-0.61-1.15	-0.11-0.85	0.41-1.35	2.09-1.1	0.9-0.38	-0.55-0.64	-0.26-1.31	-1.24-0.79	-3.59-5.44	-3.93-3.46	-3.99-7.27	-6.04-2.91	-3.52-4.44	-4.18-9.94	-7.38-7.66	-10.76-11.93	-10.62-10.96
θ (105°)	-10.9-4.4	-7.5-5.95	-4.08-7.22	-2.22-3.34	-2.41-3.9	-3.4-2.01	-0.17-0.07	-1.15-1.75	-0.95-0.07	0.57-0.6	0.04-0.36	1.30-3.9	0.02-1.9	-1.53-1.95	-1.96-2.29	-4.94-6.04	-4.09-3.74	-6.02-6.39	-5.17-2.85	-2.31-3.45	-5.18-9.22	-7.11-7.96	-6.46-9.27	-7.42-7.57
θ (112.5°)	-8.93-6.47	-6.27-4.92	-4.06-4.17	-3.49-4.08	-4.06-4.2	-3.63-2.94	-1.2-0.77	-1.07-1.6	-1.62-1.3	-1.73-2.7	-1.9-0.47	-0.24-0.93	-0.8-2.32	-2.23-2.15	-2.14-4.14	-7.01-8.42	-4.63-5.83	-7.69-7.36	-4.63-2.41	-6.31-7.5	-5.13-10.6	-8.3-7.9	-9.63-9.34	-7.82-8.67
θ (120°)	-7.73-5.31	-4.89-4.18	-3.18-3.5	-4.67-7.03	-6.94-5.82	-4.71-3.47	-2.19-2.05	-2.14-2.14	-2.9-4.5	-4.9-4.77	-4.24-3.94	-3.19-3.17	-2.68-1.66	-1.38-1.52	-1.26-1.73	-3.34-8.3	-4.78-5.43	-1.07-5.53	-4.72-2.58	-5.67-5.15	-3.41-8.88	-8.94-7.73	-10.47-6.79	-4.12-6.43
θ (127.5°)	-4.82-6.02	-3.73-3.82	-4.51-4.35	-3.81-5.41	-6.47-4.44	-3.9-4.88	-4.48-2.61	-2.63-2.74	-3.25-3.84	-3.28-4.15	-3.26-2.17	-1.93-2.32	-1.71-1.97	-1.44-1.4	-0.59-1.54	-4.48-6.5	-6.25-7.26	-10.47-5.56	-4.88-2.86	-5.59-5.43	-3.48-9.36	-10.19-10.33	-9.61-9.44	-5.59-4.16
θ (135°)	-6.64-7.25	-6.57-6.03	-5.68-5.55	-7.23-8.87	-8.05-7.78	-6.17-4.87	-3.76-1.96	-1.58-1.56	-1.94-2.56	-2.53-2.65	-2.57-2.44	-2.67-3.47	-3.46-2.76	-1.43-0.97	-0.69-2.54	-4.11-5.79	-5.75-9.44	-6.41-3.73	-2.78-4.5	-8.94-10.07	-4.52-6.4	-8.74-7.74	-6.45-8.14	-7.01-5.92
θ (142.5°)	-6.79-8.43	-9.55-9.26	-5.51-8.1	-8.36-8.65	-10.12-10.36	-6.98-5.38	-4.66-4.53	-4.5-2.89	-2.32-2.56	-2.28-1.96	-1.69-2.27	-4.06-3.73	-4.5-2.44	-3.05-2.86	-3.02-3.09	-5.54-7.3	-1.82-2.31	-3.9-4.8	-7.17-6.99	-4.65-7.52	-9.82-10.99	-8.12-6.15	-5.45-5.36	
θ (150°)	-8.45-9.08	-7.95-7.83	-7.86-8.03	-9.36-10.85	-11.47-10.71	-7.87-5.91	-5.66-6.06	-4.54-2.98	-2-1.89	-2.19-2.95	-3.39-3.63	-3.32-3.58	-4.56-4.76	-6.59-6.01	-5.9-6.3	-7.31-7.72	-9.77-6.12	-2.45-1.92	-4.06-4.34	-3.95-4.52	-5.65-6.91	-6.26-4.5	-3.41-4.17	-6.13-7.74
θ (157.5°)	-8.93-8.69	-8.77-9.38	-8.27-8.44	-8.92-8.57	-10.74-10.83	-8.65-7.84	-7.51-7.97	-7.91-7.13	-6.17-4.63	-2.94-2.41	-1.93-1.84	-1.92-1.17	-3.23-4.78	-3.71-4.32	-6.25-6	-6.5-7.18	-7.05-5.05	-3.59-3.63	-2.39-2.46	-3.55-5.75	-7.44-6.64	-6.07-6.7	-8.55-8.84	
θ (165°)	-8.06-7.65	-7.54-7.3	-7.57-7.22	-7.56-7.22	-10.69-8.28	-8.91-11.1	-11.41-10.57	-11.14-10.83	-9.37-8.73	-6.5-7.5	-3.49-2.99	-2.83-3.72	-4.42-4.98	-4.98-4.46	-3.47-2.57	-5.75-5.94	-5.08-4.49	-4.89-4.43	-3.88-3.59	-4.08-6.25	-8.46-10.61	-11.09-10.41	-9.23-8.64	
θ (172.5°)	-10.16-12.17	-11.76-10.69	-8.64-8.74	-8.93-8.87	-8.6-9.46	-10.87-11.64	-11.41-11.01	-10.03-8.89	-7.8-6.62	-5.78-4.69	-4.04-3.84	-3.79-3.86	-3.84-3.84	-3.7-3.42	-3.13-3.14	-3.47-4.4	-5.26-5.65	-6.48-6.84	-6.04-5.54	-5.34-5.17	-6.24-7.92	-9.9-9.63	-8.41-7.78	-8.08-8.65
θ (180°)	-6.69-6.26	-5.23-4.95	-4.75-5	-5.99-7.33	-7.91-8.6	-7.96-7.58	-6.83-6.38	-6-5.87	-5.41-4.83	-4.33-4.03	-3.89-3.75	-3.87-4.04	-4.17-4.37	-4.49-4.76	-4.92-5.3	-5.68-6.07	-6.47-6.67	-7.2-6.9	-6.85-6.64	-6.8-6.96	-7.78-8.5	-9.71-11.26	-11.57-11.58	-10.26-8.05
Freq(Hz)	6.995GPol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
θ (0°)	-7.69-7.71	-6.65-6.07	-5.71-6.62	-6.93-6.74	-6.46-7.01	-6.82-7.99	-8.72-8.6	-8.97-9.07	-9.4-9.41	-9.96-9.96	-9.72-9.78	-9.2-8.72	-8.09-7.85	-7.22-7.06	-6.98-7.27	-6.34-5.78	-5.48-5.64	-5.91-5.99	-6-6.27	-6.51-7.28	-7.78-10.04	-10.87-10.62	-10.37-9.34	-8.37-8.3
θ (7.5°)	-1.71-6.89	-6.73-5.65	-5.54-5.49	-5.14-4.7	-4.29-4.26	-3.99-3.88	-4.04-4.43	-4.68-5.12	-5.67-7.1	-7.66-8.17	-8.36-9.16	-8.21-7.97	-7.4-8.11	-6.45-8.46	-9.01-8.8	-7.34-6.48	-6.23-6.49	-6.69-7.28	-8.03-9.54	-9.74-9.68	-10.52-10.59	-10.07-9.24	-8.14-7.75	-7.84-7.86
θ (15°)	-4.32-3.95	-4.14-4.54	-5.55-5.92	-6.09-6.38	-6.73-5.92	-5.99-5.01	-4.78-5.06	-5.71-5.99	-6.06-6.85	-8.5-8.34	-7.58-6.41	-5.14-4.4	-4.36-5.15	-5.46-5.86	-4.92-3.72	-2.49-1.83	-1.55-1.13	-1.18-1.72	-2.63-3.86	-4.93-6.1	-7.48-7.71	-7.48-7.88	-8.89-6.69	-6.39-5.15
θ (22.5°)	-2.26-2.06	-1.72-1.57	-1.1-1.22	-2.22-4.21	-5.85-6.41	-7.05-6.55	-5.31-4.99	-5.75-6.83	-7.85-8.2	-7.43-5.82	-4.76-3.66	-2.59-1.89	-1.81-1.91	-2.03-2	-1.12-0.27	-0.4-1.15	-1.52-1.06	-1.28-2.03	-2.86-3.92	-4.56-5.2	-5.74-5.35	-3.43-3.13	-2.81-6.53	-5.13-3.77
θ (30°)	-5.17-4.87	-4.02-2.21	-1.31-1.25	-2.36-3.36	-4.52-5.92	-5.63-5.64	-5.93-5.83	-5.43-5.51	-5.83-4.35	-4.23-3.14	-3.29-3.1	-2.64-2.25	-1.55-1.63	-2.01-0.44	1.23-1.65	0.19-1.35	-1.78-2.25	-2.61-3.92	-4.67-5.02	-5.79-5.61	-3.67-3.13	-2.16-1.51	-2.36-4.18	
θ (37.5°)	-0.69-3.12	-4.01-3.09	-1.64-1.6	-2.4-2.44	-3.34-4.13	-4.81-4.6	-3.45-2.94	-3.95-5.73	-4.99-5.03	-5.13-4.6	-2.83-1.97	-1.99-1.3	-0.75-0.32	0.98-1.91	1.57-1.01	0.73-0.31	-0.11-0.46	0.16-0.48	-0.71-1.59	-1.89-1.91	-2.72-3.06	-2.22-2.24	-0.79-0.43	-0.130-0.6
θ (45°)	-1.93-2.51	-3.19-2.7	-2.31-1.83	-3.1-4.4	-4.34-3.74	-3.14-3.57	-2.73-3.63	-2.76-3.44	-3.35-3.08	-3.29-3.32	-1.71-1.26	-0.78-0.6	-0.52-0.8	0.76-1.87	1.49-0.66	0.62-0.45	-0.27-0.92	-1.06-1.63	-1.05-0.62	-0.38-0.43	-1.86-3.02	-1.64-0.21	0.43-0.22	
θ (52.5°)	-3.84-3.74	-3.28-1.61	-1.74-1.83	-2.74-3.46	-1.84-1.92	-4.43-3.49	-2.38-2.92	-4.18-3.44	-3.71-2.84	-3.69-3.56	-3.28-4.4	-3.78-2.7	-2.03-2.26	1.03-0.94	0.30-1.68	2.68-3.28	1.93-1.39	0.42-1.07	0.77-2.33	-2.22-1.06	-2.29-2.73	-2.99-3.9	-3.77-3.76	
θ (60°)	-1.87-3.6	-4.63-4.4	-3.29-2.04	-1.45-2.05	-2.89-3.83	-2.43-3.34	-3.44-2.02	0.25-0.53	-3.98-4.41	-3.09-4.11	-4.51-4.33	-6.14-4.75	-3.96-5.2	-0.73-0.98	1.33-1.54	1.99-3.42	4.09-3.37	2.57-0.88	1.22-3.04	1.77-0.41	-2.5-1.45	0.21-0.26	-1.15-4.16	-3.21-1.67
θ (67.5°)	-1.27-0.47	-3.3-2.78	-2.26-1.73	-3.1-1.76	-2.3-2.52	-2.22-2.75	-0.81-2.21	-0.35-0.3	-0.12-3.59	-1.55-1.65	-3.54-0.99	-2.61-3.63	-1.38-2.99	-0.73-1.73	2.11-1.6	1.62-3.34	4.73-3.85	2.84-0.51	1.38-2.59	1.14-0.1	-2.46-0.47	1.61-0.09	-2.53-1.16	-3.36-2.26
θ (75°)	-3.24-4.53	-3.21-2.9	-2.31-1.29	-1.59-1.23	-2.88-3.46	-2.51-1.23	-2.83-2.43	-0.63-2.19	-1.71-2.29	-1.85-1	-2.39-3.45	-4.57-4.12	-1.82-2.62	1.92-2.74	-0.12-0.4	1.85-0.62	1.92-2.42	0.31-0.63	-0.95-1.35	-3.13-2.29	-1.41-0.51	-1.41-3.09	-2.54-3.5	
θ (82.5°)	-1.12-3.18	-2.05-1.13	-0.13-1.04	-2-2.55	-0.92-1.88	-1.47-1.22	-2.03-1.96	-1.77-1.48	-2.79-1.59	-1.9-0.94	-2.69-2.37	-4.99-4.49	-4.05-4.04	-2.18-1.1	1.71-1.36	3.09-2.57	30-94	2.14-1.11	-1.58-2.63	-0.53-0.4	-1.59-1.52	-3.64-4.34	-1.77-1.28	
θ (90°)	-1.99-2.27	-2.01-2.78	-2.78-2.28	-0.73-1.43	-2.36-1.85	-2.09-3.14	-4.05-4.82	-2.87-5.5	-3.15-2.82	-2.82-2.64	-4.34-4.6	-3.08-3.92	-2.51-2.47	0.98-0.92	2.57-1.24	2.81-1.07	1.26-2.42	1.2-0.35	-0.43-1.79	-0.89-0.92	-1.45-2.05	-1.12-1.02		
θ (97.5°)	-4.72-3.46	-3.44-6.68	-4.67-1.62	-2.21-2.94	-2.66-3.03	-3.61-2.33	-4.26-3.72	-5.64-9.24	-8.75-8.88	-6.46-6.1	-5.9-5.28	-4.08-3.12	-5.84-4.94	-3.42-3.39	-0.18-0.41	-2.80-69	1.58-0.77	1.93-1.73	1.29-0.48	0.01-0.69	-1.38-0.79	-0.45-4.33	-3.94-3.54	-1.28-2.67
θ (105°)	-6.32-4.49	-4.28-4.01	-1.15-0.12	-0.11-1.5	-2.5-5.97	-6.02-3.63	-4.72-5.35	-9.43-7.77	-6.81-6.49	-6.23-9.38	-7.22-5.11	-4.4-4.67	-4.88-3.97	-2.12-2.7	0.76-1.12	-1.58-1.27	1.18-0.26	0.85-1.15	1.65-1.82	-0.62-0.43	-0.22-5.77	-5.73-5.54	-4.40-3.97	
θ (112.5°)	-4.22-4.11	-3.26-2.88	-3.32-2.39	-2.57-2.22	-2.74-1.2	-7.74-5.89	-4.79-5.2	-8.94-7.56	-5.59-3.78	-9.79-6.79	-6.19-6.29	-5.75-5.21	-5.97-3.31	-2.99-4.24	-0.26-0.53	-5.82-0.79	0.15-0.27	1.09-0.68	3.17-2.73	1.38-2.33	0.53-2.53	-0.3-4.24	-3.05-5.01	-4.17-4.6
θ (120°)	-6.05-4.84	-3.74-3.66	-3.05-4.29	-3.91-3.32	-5.78-5.48	-4.29-3.63	-4.46-5.79	-7.23-5.67	-8.64-9.56	-8.85-9.75	-10-9.76	-10.29-3.67	-6.33-4.9	-4.52-4.2	-0.11-1.12	0.65-1.21	1.82-2.25	-0.75-1.51	-2.94-7.53	-5.53-3.56	-2.45-4.58	-4.71-5.37		
θ (127.5°)	-7.69-4.94	-5.27-4.54	-4.01-4.12	-6.07-3.27	-3.46-4.88	-2.6-4.57	-4.52-5.33	-6.09-8.58	-7.69-7.02	-7.9-6.39	-8.24-1.39	-1.175-7.2	-6.25-3.75	-6.88-5.04	-3.99-3.81	-4.46-1.21	-0.69-0.75	-1.03-0.3	0.29-1.2	-0.73-1.32	-5.29-5.27	-6.87-6.14	-6.19-6.88	
θ (135°)	-5.55-5.27	-5.11-5.87	-5.48-5.44	-4.43-4.87	-4.01-4.12	-5.89-5.05	-3.43-2.92	-6.13-6.93	-6.08-4.99	-5-4.98	-4.98-6.55	-7.73-7.54	-7.09-4.3	-5.19-8.97	-4.1-2.46	-1.15-0.76	-0.82-2.77	-2.51-1.17	-0.93-1.41	-0.42-6.04	-3.46-7.57	-7.31-2.24	-2.11-2.59	-3.53-4.05
θ (142.5°)	-5.48-5.21	-5.05-5.72	-5.87-4.62	-4.26-2.71	-2.47-3.09	-4.43-4.8	-4.14-4.27	-5.14-6.03	-5.4-3.83	-4.4-5.3	-5.84-5.5	-7.58-												



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Table with columns for frequency (MHz), polarization, and various antenna gain configurations (Theta/Phi angles). The table contains numerical gain data for each combination of these parameters.



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Theta (deg)	Phi (deg)	Phi(15)	Phi(30)	Phi(45)	Phi(60)	Phi(75)	Phi(90)	Phi(105)	Phi(120)	Phi(135)	Phi(150)	Phi(165)	Phi(180)	Phi(195)	Phi(210)	Phi(225)	Phi(240)	Phi(255)	Phi(270)	Phi(285)	Phi(300)	Phi(315)	Phi(330)	Phi(345)	
Theta (157.5)	-3.96/3.78	-4.09/4.88	-5.24/6.39	-8.32/9.51	-11.35/12.6	-10.7/9.59	-8.59/9.34	-9.44/9.27	-7.64/6.07	-4.78/4.46	-3.92/3.74	-3.63/3.74	-4.85/6.45	-4.74/4.48	-5.37/5.28	-7.09/8.47	-8.04/6.1	-5.52/6.64	-7.93/9.42	-8.96/9.25	-8.82/9.15	-8.71/7.26	-6/4.81	-4.18/3.87	
Theta (165)	-4.59/4.54	-4.94/5.5	-6.7/7.28	-7.95/8.55	-9.24/10.95	-11.31/12.2	-11.28/10.15	-9.71/9	-8.03/7.92	-7.3/6.96	-6.29/5.75	-4.77/4.68	-4.49/4.09	-3.86/3.28	-1.52/1.54	-2.44/3.82	-5.25/5.74	-6.5/6.94	-7.64/7.99	-9.01/9.63	-10.45/10.09	-7.89/7.33	-7.29/6.48	-6.2/5.29	
Theta (172.5)	-10.46/11.99	-11.36/9.95	-7.81/7.84	-7.96/7.94	-8.35/9.28	-10.21/10.44	-9.29/8.46	-7.61/6.53	-5.56/4.8	-4.24/4.15	-4.17/4.44	-4.48/4.36	-3.94/3.84	-3.65/3.44	-3.43/3.69	-4.12/4.78	-5.18/5.51	-6.37/7.21	-7.98/9.02	-10.2/10.84	-11.18/11.24	-10.08/9.2	-8.09/7.42	-6.35/9.09	
Theta (180)	-5/2/4.8	-3.93/3.75	-4.19/5.05	-6.42/7.74	-8.18/9.04	-9.55/9.65	-9.04/8.64	-8.22/8.14	-7.54/7.38	-6.67/5.83	-4.89/4.22	-3.94/3.8	-3.85/4.02	-4.14/4.51	-4.71/5.16	-5.9/6.75	-7.7/8.54	-9.85/11.33	-11.8/12.28	-11.83/11.59	-10.5/9.68	-8.52/8.82	-9.02/9.22	-8.38/6.21	
Phi (deg)	Phi(0)	Phi(15)	Phi(30)	Phi(45)	Phi(60)	Phi(75)	Phi(90)	Phi(105)	Phi(120)	Phi(135)	Phi(150)	Phi(165)	Phi(180)	Phi(195)	Phi(210)	Phi(225)	Phi(240)	Phi(255)	Phi(270)	Phi(285)	Phi(300)	Phi(315)	Phi(330)	Phi(345)	
Phi (0)	-5.47/5.55	-4.91/4.8	-4.71/5.77	-6.13/6.37	-6.67/7.24	-7.56/8.9	-10.05/9.89	-10.19/10.43	-10.4/9.87	-9.33/8.36	-7.82/7.38	-7/6.56	-5.98/5.92	-5.77/6.14	-6.58/7.22	-7.02/6.73	-6.84/7.19	-7.62/7.9	-8.18/8.47	-8.57/9.13	-9.57/10.71	-10.54/9.21	-8.19/7.15	-6.16/6.05	
Phi (15)	-5.4/5.56	-6.05/5.36	-5.57/5.81	-5.72/5.77	-5.97/5.83	-5.98/5.96	-6.35/6.94	-7.36/8.02	-8.94/9.91	-10.33/10.09	-9/8.78	-7.17/6.35	-5.76/5.77	-6.04/6.28	-6.87/7.04	-6.21/5.85	-5.9/6.28	-6.6/7.46	-8.89/10.64	-11.66/11.44	-11.11/9.66	-8.62/7.68	-6.41/5.81	-5.65/5.84	
Phi (30)	-4.87/4.55	-4.39/4.45	-5.22/5.47	-5.63/5.82	-6.27/5.92	-6.4/6.32	-6.4/6.43	-6.38/6.44	-6.67/6.18	-10.14/10.04	-8.46/6.6	-5.02/4	-3.7/4.23	-4.49/5.13	-4.94/4.81	-4.5/4.32	-4.32/4.36	-4.74/5.15	-5.72/6.76	-7.86/8.45	-9.81/9.47	-8.53/8.17	-8.88/7.3	-7.36/5.77	
Phi (45)	-2.14/1.73	-1.78/1.94	-1.39/1.49	-2.05/3.3	-3.87/3.49	-4.15/4.49	-5.83/6.46	-7.07/7.3	-7.6/7.9	-8.7/8.21	-7.7/6.6	-5.18/3.73	-2.98/3.03	-3.23/3.24	-2.57/2.11	-2.06/2.73	-3.15/2.94	-3.5/2.55	-6.39/7.38	-7.65/7.74	-7.4/6.61	-4.81/4.18	-4.25/4.79	-4.83/3.48	
Phi (60)	-4.18/3.68	-2.59/1.84	-1.06/0.67	-1.27/1.58	-1.83/2.94	-3.03/2.94	-2.9/2.99	-3.55/3.73	-3.83/3.75	-3.92/4.43	-5.96/5.89	-5.4/4.28	-3.34/2.29	-1.3/1	-0.63/0.81	-0.97/1.44	-1.94/1.9	-3.03/5.05	-5.04/5.19	-6.17/6.55	-6.5/6.44	-4.5/4.54	-3.67/2.61	-2.33/3.3	
Phi (75)	-1.4/2.88	-2.63/1.36	-0.36/0.09	0.01/0.1	-0.43/0.7	-0.94/0.87	-1.50/0.9	-0.75/2.1	-2.43/3.07	-4.52/5.22	-4.54/3.41	-3.32/3.33	-3.06/2.87	-2.08/1.21	-1.77/3.29	-2.08/1.72	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34	-3.07/2.34
Phi (90)	-2.14/2.1	-1.94/0.9	0.44/1.01	0.58/0.07	0.01/0.53	0.75/0.48	0.09/0.56	-1.13/1.94	-2.74/3.6	-3.22/3.49	-2.83/2.55	-1.73/1.96	-1.84/2.89	-2.63/2.07	-2.38/3.06	-2.65/1.17	-1.08/2.94	-5.08/3.04	-6.03/11	-0.95/1.61	-1.39/2.2	-3.67/4.08	-2.87/1.69	-0.8/0.71	
Phi (105)	-5.59/3.92	-2.34/0.36	0.18/0.67	0.55/0.58	1.29/0.9	-0.69/0.66	1.24/0.63	0.52/1.26	-1.47/1.64	-4.17/4.24	-3.82/3.55	-1.99/1.38	-1.68/1.98	-1.78/2.18	-1.74/2.06	-2.58/2.12	-1.4/0.39	-0.2/0.95	-2.47/2.11	-1.05/2.66	-3.8/3.44	-4.63/4.33	-3.67/3.81	-4.06/4.42	
Phi (120)	-0.62/0.78	-1.24/1.14	-0.85/0.23	0.19/0.53	0.13/0.05	1.03/0.83	0.38/0.62	1.60/0.96	-0.46/1.72	-2.47/4.03	-3.24/2.02	-2.1/1.17	-1.73/2.64	-2.16/0.53	0.35/0.12	-2.3/1.23	0.2/0.83	-1.06/1.16	-0.99/0.57	-0.33/2.69	-2.95/1.16	-0.52/0.63	-1.99/4.24	-3.27/1.18	
Phi (135)	-1.2/2.29	-2.37/0.46	0.24/0.68	-0.05/0.57	0.12/1.01	1.62/2.91	3.58/2.41	2.07/1.13	1.73/1.51	-0.99/0.72	-3.32/3.71	-2.39/2.15	-1.83/2.6	-2.25/0.57	0.39/0.63	-2.37/0.09	1.71/0.07	-2.6/3.43	-2.89/1.72	-1.53/3.59	-4.5/1.49	0.37/0.85	-2.49/3.79	-2.32/1.3	
Phi (150)	-2.44/2.49	-1.68/0.84	0.34/1.28	1.92/1.68	1.62/1.13	2.01/1.7	0.97/1.84	2.56/0.99	0.24/0.49	-0.56/0.45	-0.99/1.37	-1.47/1.35	-3.83/4.02	-1.71/2.03	-1.02/1.78	-2.19/2.44	-2.17/2.42	-0.95/4.44	-2.55/0.57	-2.77/4.07	-5.74/3.9	-1.98/2.18	-2.53/2.75	-2.81/2.24	
Phi (165)	-0.32/0.82	-0.58/2.25	3.38/0.09	2.82/2.7	2.51/1.28	2.14/2.02	1.76/1.88	2.01/1.23	-1.01/0.14	-0.55/0.94	-3.19/4.32	-5.99/5.69	-6.95/7.89	-6.49/5.43	-2.88/2.96	-5.47/1.15	-1.46/0.84	0.98/0.59	-1.46/0.84	-2.63/1.27	-1.55/2.07	-3.83/3.48	-2.33/0.61		
Phi (180)	0.32/0.87	1.52/1.3	1.41/1.69	2.71/2.52	1.78/1.18	1.71/1.33	1.14/0.73	0.52/0.47	-1.22/0.4	-0.59/1.6	-3.86/4.06	-5.79/5.44	-5.61/6.6	-6.93/6.98	-4.43/5.08	-8.84/3.59	-2.02/0.55	-0.27/0.05	-2.62/2.29	-2.21/3.34	-2.68/3.67	-2.93/2.5	-2.55/0.91	-0.84/0.31	
Phi (195)	-1.33/0.9	-0.59/1.62	-1.86/0.08	0.53/0.77	0.23/0.15	1.81/1.94	1.33/1.23	-1.26/2.55	-3.11/4.42	-3/4.78	-4.55/4.7	-4.88/3.94	-6.37/7.9	-7.17/9.54	-5.24/5.01	-5.39/3.2	-2.69/2.92	-0.87/1.53	-0.57/2.25	-2.48/1.15	-2.59/1.8	-1.38/4.29	-2.36/2.65	-2.64/1.6	
Phi (210)	-3.5/2.76	-1.91/0.92	0.68/0.66	0.86/0.5	1.71/2.22	-1.85/0.13	0.71/0.26	-1.25/0.65	-1.21/1.15	-0.88/2.43	-3.1/3.69	-5.09/4.94	-7.21/6.98	-7.58/6.62	-4.71/3.7	-3.85/5.17	-3.1/3.25	-1.83/1.25	-2.29/0.94	-3.47/2.96	-2.85/4.5	-4.46/3	-3.94/3.48		
Phi (225)	-1.81/2.16	-0.14/0.75	1.11/0.57	1.33/0.74	0.4/0.28	-2.27/1.81	-1.27/2	-2.61/1.94	-2.33/4.17	-3.25/2.03	-3.02/3.4	-5.93/7.02	-8.71/6.08	-7.58/11.25	-8.33/7	-6.06/3.21	-3.75/2.57	-1.58/1.76	-1.45/1.76	-2.38/2.26	-1.69/2.99	-3.4/3.91	-1.79/2.01	-2.67/3.02	
Phi (240)	-4.18/3.15	-1.22/0.02	1.10/0.57	0.64/0.19	-2.41/1.56	-0.19/0.04	-1.06/1.27	-1.36/1.75	-2.71/2.78	-3.31/4.37	-4.47/5.94	-6.94/5.76	-7.09/7.59	-11.44/10.12	-10.51/8.47	-9.96/4.37	-5.83/6.42	-3.47/4.43	-2.84/2.78	-1.95/6.86	-7.2/4.54	-8.53/7.5	-4.47/5.2	-4.47/5.2	
Phi (255)	-8.15/8.87	-4.16/2.76	-1.84/1.35	-1.97/2.04	-0.43/2.11	-0.65/0.62	-0.46/0.43	-1.02/2	-1.75/1.79	-3.8/4.13	-7.11/10.93	-10.2/10.29	-9.18/8.01	-8.43/8.16	-6.59/4.59	-5.81/5.49	-5.13/8.6	-5.44/5.82	-3.14/3.14	-2.39/3.69	-2.45/2.68	-6.51/4.5	-6.87/7.16	-7.87/7.8	
Phi (270)	-4.53/3.48	-2.86/3.86	-4.24/4.57	-3.63/3.51	-2.38/1.88	-1.93/1.12	0.11/0.48	-1.37/2.25	-2.57/1.86	-2.03/2.51	-3.42/5.16	-6.14/7.35	-8.4/6.68	-7.01/9.45	-7.63/4.99	-4.02/4.51	-3.9/6.45	-5.18/3.45	-6.51/5.11	-1.59/5.96	-4.67/7.76	-7.26/4.52	-3.37/3.17	-4.79/5.24	
Phi (285)	-3.34/2.68	-1.93/2.15	-2.4/1.99	-2.07/1.19	-1.64/2.54	-4.45/4.71	-1.96/1.09	-1.61/2.7	-2.4/0.97	-2.08/4.43	-5.35/4.88	-5.86/6.86	-8.98/9.86	-6.32/5.34	-6.09/5.8	-5.16/4.94	-4.02/4.65	-3.13/3.34	-1.51/3.61	-2.95/2.73	-4.22/2.78	-4.34/4.75	-3.75/1.85	-2.13/3.93	
Phi (300)	-6.33/4.91	-5.4/5.49	-7.37/9.45	-8.93/7.01	-5.02/3.46	-2.86/1.49	-0.46/0.89	-2.71/3.26	-2.07/1.94	-2.82/5.99	-6.33/4.75	-7.38/7.65	-7.59/6.15	-6.58/6.27	-5.21/6.63	-4.68/2.65	-1.61/2.32	-3.39/2.82	-2.64/4.79	-6.67/5.37	-1.77/6.94	-5.8/4.74	-5.8/4.74		
Phi (315)	-8.15/7.06	-6.65/5.94	-5.17/4.95	-4.61/4.13	-3.55/3	-2.97/3.01	-3.38/4.09	-4.02/3.2	-2.33/2.27	-3.27/4.59	-6.67/9.01	-10.47/9.78	-9.11/8.53	-6.71/5.88	-5.82/6.44	-8.45/10.46	-6.53/6.6	-4.8/2.68	-1.08/0.87	-2.02/3.41	-3.93/4.32	-4.94/6.28	-7.91/8.69	-9.66/8.74	
Phi (330)	-7.93/9.33	-8.86/8.37	-7.66/6	-3.77/3.24	-1.68/2.01	-2.72/0.99	-3.59/4	-4.61/5.74	-7.48/7.9	-7.17/5.76	-4.88/4.81	-5.29/6.07	-6.3/5.29	-4.68/3.86	-3.55/3.23	-3.78/5.08	-5.95/5.71	-5.36/3.45	-3.39/3.08	-3.47/4.61	-5.81/6.46	-6.49/6.69	-6.06/6.69	-5.96/6.48	
Phi (345)	-6.84/6.43	-6.23/6.55	-6.83/7.01	-7.04/7.65	-7.77/5.8	-7.2/7.05	-6.85/7.39	-6.67/6.76	-7.4/7.92	-8.57/9.72	-10.18/10.97	-11.09/10.99	-9.39/7.83	-6.13/4.66	-3.93/3.57	-3.78/3.97	-3.77/3.44	-2.99/2.98	-3.38/4.68	-6.59/6.39	-8.92/8.04	-6.99/6.44	-6.25/6.22	-6.65/6.73	
Phi (360)	-7.15/6.84	-6.67/6.23	-5.14/4.37	-3.85/3.45	-3.57/4.07	-4.16/4.53	-5.28/5.91	-6.44/7.19	-8.15/9.12	-8.94/8.89	-7.84/7.21	-6.18/5.39	-5.17/4.94	-4.6/4.15	-3.6/2.99	-2.88/3.32	-4.1/4.96	-6.7/3.88	-8.41/9.6	-9.84/10.34	-10.15/9.83	-9.04/8.43	-7.78/7.27		

6G option7

Theta (deg)	Phi (deg)	Phi(15)	Phi(30)	Phi(45)	Phi(60)	Phi(75)	Phi(90)	Phi(105)	Phi(120)	Phi(135)	Phi(150)	Phi(165)	Phi(180)	Phi(195)	Phi(210)	Phi(225)	Phi(240)	Phi(255)	Phi(270)	Phi(285)	Phi(300)	Phi(315)	Phi(330)	Phi(345)
Theta (157.5)	-3.96/3.78	-4.09/4.88	-5.24/6.39	-8.32/9.51	-11.35/12.6	-10.7/9.59	-8.59/9.34	-9.44/9.27	-7.64/6.07	-4.78/4.46	-3.92/3.74	-3.63/3.74	-4.85/6.45	-4.74/4.48	-5.37/5.28	-7.09/8.47	-8.04/6.1	-5.52/6.64	-7.93/9.42	-8.96/9.25	-8.82/9.15	-8.71/7.26	-6/4.81	-4.18/3.87
Theta (165)	-4.59/4.54	-4.94/5.5	-6.7/7.28	-7.95/8.55	-9.24/10.95	-11.31/12.2	-11.28/10.15	-9.71/9	-8.03/7.92	-7.3/6.96	-6.29/5.75	-4.77/4.68	-4.49/4.09	-3.86/3.28	-1.52/1.54	-2.44/3.82	-5.25/5.74	-6.5/6.94	-7.64/7.99	-9.01/9.63	-10.45/10.09	-7.89/7.33	-7.29/6.48	-6.2/5.29
Theta (172.5)	-10.46/11.99	-11.36/9.95	-7.81/7.84	-7.96/7.94	-8.35/9.28	-10.21/10.44	-9.29/8.46	-7.61/6.53	-5.56/4.8	-4.24/4.15	-4.17/4.44	-4.48/4.36	-3.94/3.84	-3.65/3.44	-3.43/3.69	-4.12/4.78	-5.18/5.51	-6.37/7.21	-7.98/9.02	-10.2/10.84	-11.18/11.24	-10.08/9.2	-8.09/7.42	-6.35/9.09
Theta (180)	-5/2/4.8	-3.93/3.75	-4.19/5.05	-6.42/7.74	-8.18/9.04	-9.55/9.65	-9.04/8.64	-8.22/8.14	-7.54/7.38	-6.67/5.83	-4.89/4.22	-3.94/3.8	-3.85/4.02	-4.14/4.51	-4.71/5.16	-5.9/6.75	-7.7/8.54	-						

Freq(Hz)	6.475GPol.		Phi	Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi		Phi						
	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)	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)
DC(0)	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)	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)
0	9.761-10.31	9.177-8.71	8.656-8.7	8.056-8.13	8.071-7.99	7.886-8.27	8.58-8.29	8.31-8.82	8.871-8.67	8.561-9.04	8.691-8.32	7.941-7.72	7.491-7.75	8.31-8.45	8.43-8.93	8.381-8.93	8.981-9.55	8.981-9.55	9.381-9.64	9.41-9.53	10.061-11.06	10.761-9.77	9.541-9.66	10.481-10.31	9.177-8.71	8.656-8.7	8.056-8.13	8.071-7.99	7.886-8.27	8.58-8.29	8.31-8.82	8.871-8.67	8.561-9.04	8.691-8.32	7.941-7.72	7.491-7.75	8.31-8.45	8.43-8.93	8.381-8.93	8.981-9.55	8.981-9.55	9.381-9.64	9.41-9.53	10.061-11.06	10.761-9.77	9.541-9.66	10.481-10.31	



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Freq(Hz)	Theta(°)	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°)
6.995GHz Pol.	Theta(°)	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°)
Theta(120°)	-4.93/-3.57	-2.65/-1.41	-0.3/-0.6	-0.62/-0.95	-2.86/-1.62	-0.09/-0.37	-1.85/-1.75	-1.37/-2.13	-3.24/-2.98	-3.73/-5.46	-6.82/-7.34	-7.61/-6.38	-7.34/-6.06	-11.51/-9.75	-10.47/-6.68	-4.5/-4.24	-2.09/-2.46	-3.26/-3.56	-1.89/-2.74	-5.59/-6.33	-9.56/-6.68	-6.18/-4.48	-2.49/-3.71	-4.69/-6.01	
Theta(127.5°)	-8.75/-3.54	-5.22/-3.87	-3.21/-2.8	-3.36/-0.91	-0.84/-1.98	-0.65/-1.21	-1.23/-0.96	-1.28/-2.54	-2.63/-2.58	-3.91/-3.7	-6.54/-11.02	-12.06/-10.18	-8.27/-7.1	-7.77/-8.06	-5.81/-3.95	-4.04/-3.96	-3.05/-3.42	-5.52/-4.52	-1.99/-3.21	-3.03/-3.35	-1.93/-3.3	-4.92/-6.69	-6.85/-6.66	-7.84/-7.63	
Theta(135°)	-5.64/-4.55	-3.98/-4.84	-2.59/-6.14	-5.22/-5.4	-4.29/-2.88	-2.27/-1.68	-2.02/-0.05	-1.89/-2.97	-3.27/-2.02	-4.71/-2.22	-6.21/-4.68	-6.16/-7.2	-6.47/-5.48	-6.07/-9.13	-7.81/-5.13	-3.47/-3.11	-2.81/-5.2	-3.83/-2.26	-5.35/-5.04	-2.41/-5.05	-4.22/-7.41	-6.76/-3.91	-2.78/-2.59	-4.91/-5.81	
Theta(142.5°)	-3.62/-2.61	-1.71/-1.84	-2.56/-2.59	-2.93/-2.06	-2.65/-3.44	-5.42/-6.04	-2.43/-1.75	-2.09/-2.81	-2.39/-1.04	-1.97/-4.7	-5.53/-5.11	-6.12/-7.34	-9.77/-9.22	-6/5.01	-5.91/-5.84	-4.61/-4.59	-6.23/-4.03	-2.04/-1.43	-1.48/-3.62	-3.09/-2.55	-4.11/-2.29	-3.93/-4.82	-3.53/-1.81	-2.89/-4.94	
Theta(150°)	-7/5.14	-5.52/-5.03	-6.95/-10.84	-9.74/-7.8	-5.95/-4.41	-3.65/-2.38	-1.27/-1.3	-1.86/-3.2	-2.09/-1.98	-2.78/-5.09	-5.69/-5.55	-6.28/-8.41	-8.17/-8.74	-7.56/-5.22	-5.69/-6.51	-6.69/-8.36	-6.56/-3.83	-1.42/-3.2	-3.52/-2.87	-2.17/-2.23	-2.87/-4.76	-7.08/-7.53	-7.09/-7.33	-6.91/-7.7	
Theta(157.5°)	-8.04/-7.13	-7/01/6.52	-5.88/-5.8	-5.88/-4.78	-3.75/-3.43	-4/01/4.16	-4/08	-4/09/3.11	-2/34/2.09	-3.75/-5.12	-7/19/8.47	-9/23/9.43	-6/88/8.48	-6/91/5.91	-5/73/6.28	-4/77/8.84	-5/59/3.88	-3/13/2.25	-1/02/0.81	-1/97/3.72	-4/47/3.89	-3/75/5.02	-7/76/5.01	-9/88/8.88	
Theta(165°)	-7.99/-8.82	-8.89/-8.41	-7.99/-5.61	-3.48/-2.18	-1.82/-2.58	-3.62/-3.9	-3.93/-3.96	-4.51/-5.68	-7.36/-8.03	-6.55/-4.98	-4.59/-5.17	-6.34/-7.46	-7.42/-6.13	-5.69/-5.17	-4.36/-3.4	-3.25/-4.05	-4.95/-5.14	-5.38/-4.68	-3.9/-3.36	-3.84/-4.91	-6.08/-6.45	-6.34/-6.59	-5.99/-5.68	-5.93/-6.65	
Theta(172.5°)	-6.85/-6.54	-6.18/-6.55	-6.91/-6.57	-6.51/-6.86	-6.64/-6.51	-6.49/-6.7	-7/02/7.42	-6.66/-6.54	-6.93/-7.32	-8/07/9.42	-10/41/11.96	-12/44/12.21	-10/48/8.61	-6.81/-5.48	-4.81/-3.44	-4/03/-3.91	-3.81/-3.45	-3.11/-3.21	-3.51/-4.74	-6.93/-8.52	-9/13/8	-6.88/-6.39	-6.17/-6.2	-6.64/-6.83	
Theta(180°)	-6.81/-6.72	-6.85/-6.07	-5.11/4.51	-4.17/3.86	-3.89/4.41	-4.44/4.9	-5.15/5.31	-5.49/6.1	-6.58/7.34	-8/2/9.15	-8.84/8.86	-7.97/7.35	-6.71/5.91	-5.49/5.18	-4.84/4.7	-4/21/3.62	-3/44/3.59	-4.26/5.04	-6/06/7.34	-8/21/9.58	-9/81/9.99	-9/97/9.51	-9/13/8.36	-6.96/6.93	

6G option9

Freq(Hz)	Theta(°)	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°)
6.175GHz Pol.	Theta(°)	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°)
Theta(0°)	-2.39/-2.55	-3/21/3.38	-3/41/2.58	-2/81/3.07	-3/61/3.4	-5/51/5.06	-5/41/3.9	-4/01/4.24	-4/15/4.38	-4/17/4.38	-4/51/4.74	-4/74/4.74	-4/78/4.53	-4/19/3.6	-3/12/3.15	-3/73/4.29	-4/45/4.59	-5/07/4.86	-4/64/4.33	-3/92/3.61	-3/36/3.34	-3/31/3.21	-2/65/2.31	-2/26/2.26	
Theta(7.5°)	-3.81/-3.74	-3.29/-3.14	-3.11/2.87	-2/62/2.6	-3/13/3.64	-4/11/4.24	-3/42/3.29	-3/26/3.55	-3/53/3.61	-3/12/2.64	-2/35/2.18	-2/05/2.21	-3/22/2.56	-3/24/2.53	-1/92/1.61	-1/61/1.82	-2/12/3.27	-2/62/2.74	-3/07/3.59	-3/95/4.14	-4/63/5.41	-5/93/6.4	-6/23/5.5	-4/96/4.5	
Theta(15°)	-1.32/-1.02	-0.76/-0.52	-0.59/1.28	-1.84/2.09	-2/39/2.54	-3/04/3.76	-2/83/1.9	-1/09/0.81	-1/12/1.75	-2/53/3.44	-4/58/4.5	-3/96/3.44	-2/99/2.56	-2/02/1.34	0.24/0.13	-0/10/0.64	-1/13/1.71	-2/12/2.61	-3/01/3.49	-3/63/3.67	-3/88/3.61	-3/32/2.46	-2/11/1		
Theta(22.5°)	-2/07/1.94	-2/07/1.88	-1/14/0.7	-0.59/0.93	-1/64/3.17	-4/21/7.5	-4/69/4.48	-4/48/4.13	-3/75/3.55	-3/66/4.64	-4/97/5.68	-5/53/5.56	-4/55/2.58	-0/91/0.01	0.40/0.3	0.68/0.62	1/34/2.75	-3/71/3.71	-3/48/3.27	-2/87/2.66	-2/61/2.47	-2/37/2.51	-2/41/2.18		
Theta(30°)	-2/94/3.37	-3/53/3.97	-3/14/2.67	-3/54/2.48	-4/87/5.56	-5/62/5.16	-4/32/4.15	-4/59/5.38	-6/01/5.85	-4/53/3.19	-2/63/3.03	-3/64/3.98	-5/35/2.14	-0/75/0.55	1.29/1.48	-4/84/0.2	-1/31/1.4	-1/91/2.95	-3/34/3.32	-3/42/3.32	-1/65/1.59	-2/13/2.04	-1/64/1.78		
Theta(37.5°)	-0/96/1.55	-1/98/1.98	-2/61/3.71	-4/91/5.64	-5/08/5.61	-5/86/5.63	-5/08/4.76	-4/41/4.31	-5/3/5.52	-5/12/4.01	-3/87/3.71	-3/09/2.19	-1/04/0.4	1.27/1.27	1.36/1.42	0.88/0.78	1.47/1.15	-0/26/1.81	-2/95/3.76	-1/91/0.45	-0/58/1.23	-0/64/0.31	0.80/0.7	0.53/0.45	
Theta(45°)	-0/78/2.2	-2/43/1.45	-1/87/3.43	-3/91/4.79	-5/44/6.22	-2/85/2.9	-4/21/3.32	-2/77/3.54	-4/59/5.12	-4/22/2.55	-2/87/3.19	-1/85/0.47	-0/50/0.13	0.72/0.83	0.15/0.75	0.94/1.04	1.92/2.27	2/16/7	1.73/2.35	2.22/3.2	0.25/1.02	-1/46/1.17	-0/17/0.22	-0/18/0.02	
Theta(52.5°)	-6/39/4.08	-2/01/1.52	-1/74/3.93	-1/22/2.06	-4/17/4.63	-4/27/3.56	-2/45/2.86	-3/54/5.21	-5/24/4.92	-5/16/3.42	-3/38/2.05	-4/89/0.39	0.08/0.24	0.55/1.92	2.18/1.94	2.05/2.36	2.44/2.16	1.91/1.47	1.92/1.02	0.54/1.54	-1/88/0.61	0.50/0.56	-0/72/0.51		
Theta(60°)	-0/43/0.82	-1/23/1.49	-2/49/2.04	-2/91/3.54	-3/51/2.22	-6/38/5.29	-3/62/3.75	-2/83/3.25	-4/12/6.84	-5/44/5.54	-5/69/5.71	-6/34/4.27	-2/39/0.12	1.26/0.39	0/1	1.57/1.79	1.12/1.53	1.82/2/27	-1/58/1	0.82/0.34	0.03/0.05	0.17/0.55	1.21/0.84	0.48/0.47	
Theta(67.5°)	-1/78/1.25	-1/99/2.43	-2/62/3.18	-4/04/3/31	-2/86/3/34	-3/99/4.04	-5/87/3.76	-3/65/3/64	-3/81/4.84	-6/42/6.79	-5/98/3/33	-3/73/3.94	-1/81/0.66	0.05/0.24	1.03/2.23	1.10/0.7	-0/45/2.86	-1/82/0.99	-1/66/2.96	-1/63/1.81	-1/53/0.41	-0/09/0.26	-0/38/0.87		
Theta(75°)	-0/57/0.5	-1/78/2.37	-3/51/2.48	-2/32/2.8	-3/83/5.46	-6/15/5.34	-3/13/3.92	-3/11/5.56	-4/63/4.84	-5/16/5.53	-6/24/3.97	-6/19/7.03	-5/24/3.57	-3/23/0.17	0.75/0.37	-0/30/0.28	-2/21/4.89	-4/76/2.19	-4/82/2.99	-2/69/3.26	-3/23/1.98	-0/83/0.91	-0/05/0.6		
Theta(82.5°)	-0/91/0.9	-1/89/5.32	-5/77/4.83	-4/43/3.06	-3/86/6.39	-6/12/5.81	-5/72/4.79	-4/53/4.18	-5/83/5.47	-4/79/5.63	-5/21/4.77	-3/45/3.27	-3/28/2.99	-2/96/1.71	-1/16/3.51	-2/41/0.69	-1/11/0.75	-0/88/1.22	-1/05/1.95	-1/34/3.23	-3/81/0.42	-4/03/4.55	-2/42/0.92	-0/70/7.9	
Theta(90°)	-1/83/1.39	-2/25/3.5	-6/91/6.74	-6/12/4.59	-7/25/3.23	-4/93/3.42	-5/61/4.99	-1/22/2.12	-4/28/5.15	-3/91/4.04	-4/37/4.57	-4/21/4.6	-4/12/1.3	-2/22/0.87	-0/37/3.72	-5/43/0.82	0.40/0.76	-2/39/3.34	-1/30/1.77	-0/37/3.67	-2/39/2.14	-1/21/1.96	-2/28/2.12	-0/67/0.3	
Theta(97.5°)	-2/62/4.08	-4/06/6.19	-6/27/4	-8/78/5.88	-5/99/10.32	-9/77/8.8	-8/01/6.51	-2/29/2.38	-3/17/4.45	-6/12/4.58	-9/26/6.17	-4/12/3.58	-2/9/2.68	-1/14/2.08	-0/46/1.81	-2/06	1.16/1.23	1/10/0.57	-1/12/2.6	1/27/2.13	-2/24/2.5	-1/99/1.43	-3/52/4.83	-2/72/2.16	
Theta(105°)	-5/97/6.92	-5/14/6.49	-8/36/9.88	-9/15/6.82	-7/27/6.74	-8/05/6.42	-7/42/6.19	-3/27/3.74	-4/41/4.17	-4/34/3/05	-2/72/1.42	-3/29/3.77	-2/93/1.83	-0/87/0.87	0.41/1.51	-3/49/1.08	1.84/1.39	2.58/1.61	1.34/0.34	2.32/2.01	-1/16/1.97	-2/54/3.53	-7/91/11	-7/72/5.19	
Theta(112.5°)	-5/34/5.77	-6/83/7.74	-8/21/7/32	-6/63/6	-5/61/5.16	-7/47/7.88	-6/61/4.39	-4/12/4.87	-4/67/4.35	-4/78/3.66	-4/25/3.57	-2/89/0.96	-2/61/3.3	-1/51/0.07	0.94/0.49	-3/72/5.08	0.84/0.49	0.85/0.05	1.59/3.44	1.18/1.26	-3/26/0.55	-2/41/2.61	-7/53/6.85	-4/23/3.03	
Theta(120°)	-5/25/7.22	-8/11/9.09	-9/57/6.34	-4/53/4.88	-5/62/6.4	-6/97/8.17	-6/06/6.12	-9/97/8.9	-4/91/4.92	-5/43/3.77	-3/98/3.46	-3/08/1.74	-1/47/0.42	-1/48/1.96	-2/93/5.04	-1/47/1.01	-1/87/1.45	-1/47/1.71	-1/47/1.71	-1/47/1.71	-3/26/5.46	-1/06/1.061	-7/79/5.32		
Theta(127.5°)	-10/14/10.92	-9/53/8.46	-6/83/5.2	-4/71/4.9	-6/89/7.74	-7/94/6.59	-6/91/7.11	-6/47/7.04	-5/31/4.74	-4/44/5.14	-4/27/3.93	-3/91/5.05	-4/69/3/7	-4/94/3.47	-3/66/4.92	-2/11/7.3	-1/96/0.96	-0/14/1.24	-0/98/0.02	-2/81/4.5	-3/36/1.9	-3/48/5.98	-6/26/11.22	-11/51/8.65	
Theta(135°)	-7/38/9.04	-8/23/8.21	-6/17/6.89	-7/99/10.26	-7/71/6.1	-6/22/3.14	-7/23/4.14	-4/77/5.55	-8/98/7.95	-5/95/3/03	-6/97/6.41	-4/85/6.19	-6/61/4.7	-3/91/1.42	-0/17/0.17	-0/07/0.8	-0/82/4.49	-3/87/6.58	-3/76/3.23	-3/55/2.02	-2/49/3.59	-3/28/7.47	-6/71/7.78		
Theta(142.5°)	-6/02/9.27	-10/44/10.6	-6/06/6.27	-5/63/4.87	-4/82/5.5	-6/16/6.72	-7/99/10.64	-5/17/6.21	-8/25/10.26	-9/15/8.18	-7/55/7.49	-7/74/6.59	-4/64/5.59	-4/34/1.94	-0/76/0.5	-0/54/2.8	-1/32/0.05	-1/41/2.58	-3/11/6.39	-5/84/3.62	-4/15/3.97	-3/48/2.2	-1/16/1.67	-6/31/5.15	
Theta(150°)	-7/04/7.37	-8/31/8.98	-8/89/9.01	-9/48/8.73	-7/2/6.87	-6/59/7.39	-																		



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Theta (°)	-8.17/-9.78	-9.45/-9.75	-10.14/-11.86	-11.31/-7.52	-5.59/-5.08	-6.27/-8.48	-8.96/-8.31	-7.85/-7.49	-7.77/-7.4	-6.93/-6.96	-5.98/-6.05	-5.66/-4.41	-3.18/-2.28	-0.91/-0.03	0.59/0.29	-0.62/-1.31	-1.15/-4.44	-0.21/-0.14	-0.13/-1.2	-4.2/-2.59	-6.32/-6.43	-6.38/-6.49	-6.52/-6.56	-5.67/-6.5
Phi (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
Gain (dB)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
Theta (157.5°)	-8.48/-9.75	-9.19/-9.82	-10.78/-10.57	-9.51/-7.95	-8.15/-8.77	-6.84/-8.44	-8.59/-9.25	-9.91/-9.4	-8.56/-7.27	-6.78/-6.93	-7.3/-7.05	-5.89/-4.59	-3.29/-2.01	-1.61/-1.63	-1.52/-1.51	-2.06/-1.62	-0.98/-1.1	-0.93/-0.08	0.39/-0.36	-2.04/-3	-6.22/-7.83	-7.71/-7.47	-7.61/-8.41	-10.35/-8.86
Theta (165°)	-7.56/-8.11	-8.71/-8.93	-9.74/-10.31	-10.87/-10.28	-9.73/-9.71	-10.77/-11.16	-11.62/-11.88	-11.67/-10.67	-10.03/-9.29	-9.12/-9.28	-8.31/-6.91	-6.22/-5.71	-5.82/-5.97	-5.89/-5.95	-5.34	-1.75/-0.83	-0.83/-1.22	-1.49/-1.11	-0.89/-1.11	-2.2/-3.97	-5.69/-8.27	-11.54/-12.38	-11.61/-11.77	-9.81/-8.51
Theta (172.5°)	-8.97/-8.95	-9.27/-8.99	-8.64/-8.5	-8.91/-9.19	-9.32/-9.92	-10.41/-9.2	-8.93/-9.08	-8.41/-7.15	-6.41/-5.95	-6.49/-7.37	-8.57/-9.38	-8.87/-8.89	-8.27/-7.71	-7.21/-6.87	-6.31/-6.39	-6.48/-6.01	-5.69/-4.87	-4.21/-3.88	-3.65/-3.87	-4.68/-5.64	-6.82/-8.86	-10.36/-10.95	-10.19/-9.24	-7.75/-7.9
Theta (180°)	-9.25/-8.47	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (187.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (195°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (202.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (210°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (217.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (225°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (232.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (240°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (247.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (255°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (262.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (270°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (277.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (285°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (292.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (300°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (307.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (315°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (322.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (330°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (337.5°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8
Theta (345°)	-8.48/-8.95	-7.33/-6.85	-6.49/-6.7	-7.13/-8.01	-8.47/-7.72	-7.09/-7.21	-7.31/-7.08	-6.89/-6.5	-6.58/-6.44	-6.93/-7.47	-7.66/-7.62	-7.74/-7.61	-7.71/-7.86	-8.17/-8.79	-8.42/-7.8	-6.88/-5.96	-4.93/-4.02	-3.39/-3.2	-3.41/-3.88	-4.44/-5.61	-6.85/-7.53	-7.71/-8.04	-9.06/-10.11	-10.87/-8.8



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Theta (°)	-8.45/-7.66	-7.63/-6.97	-6.62/-6.86	-7.44/-7.43	-6.09/-4.57	-3.64/-3.14	-2.86/-2.84	-3.02/-3.06	-3.17/-3.33	-3.16/-3.07	-3.41/-4.25	-4.61/-4.46	-4.11/-3.42	-2.88/-2.59	-3.22/-4.67	-6.33/-7.73	-7.6/23	-5.62/-5.03	-5.35/-5.71	-5.42/-4.8	-5.26/-5.33	-5.19/-5.59	-6.05/-7.13	-8.57/-9.35
Theta (30°)	-6.98/-6.13	-5.54/-5.02	-5.11/-5.7	-7.51/-7.23	-6.52/-6.6	-4.32/-3.09	-2.85/-2.71	-2.27/-2.34	-3.05/-4.37	-3.02/-3.13	-4.06/-4.87	-5.11/-5.59	-6.45/-6.22	-5.56/-5.25	-5.77/-6.38	-7.24/-8.27	-8.37/-9.5	-6.63/-6.35	-6.71/-5.71	-7.46/-7.07	-5.98/-5.63	-5.99/-6.2	-6.78/-8.24	-8.08/-7.25
Theta (35°)	-5.04/-3.59	-3.64/-4.28	-3.29/-3.78	-5.24/-7.3	-4.43/-4.63	-5.16/-4.47	-4.51/-3.9	-2.97/-2.39	-2.28/-2.74	-3.6/-3.89	-3.79/-3.9	-4.64/-6.16	-5.99/-5.51	-5.12/-9.36	-7.49/-6.45	-5.88/-8.39	-8.67/-7.1	-5.13/-5.78	-6.71/-6.91	-7.72/-7.49	-6.89/-6.36	-6.22/-5.84	-4.95/-5.17	-5.94/-6.39
Theta (45°)	-2.98/-2.21	-2.55/-2.83	-2.46/-3.51	-4.04/-3.43	-3.96/-4.4	-3.67/-6.29	-2.82/-2.85	-2.28/-1.62	-1.59/-2.24	-2.3/-3.08	-2.75/-2.3	-2.46/-3.5	-5.55/-5.06	-9.21/-10.4	-7.91/-8.33	-7.7/6.15	-6.97/-5.1	-4.45/-6.4	-11.08/-9.79	-7.95/-6.62	-5.87/-5.71	-7.17/-8.05	-6.95/-5.48	-4.84/-6.47
Theta (50°)	-2.31/-1.95	-3.01/-2.25	-2.71/-3.29	-3.2/-2.69	-1.97/-0.79	-0.65/-1.21	-0.97/-0.73	-0.92/-1.3	-2.1/-3.42	-3.35/-2.87	-3.14/-3.19	-3.13/-3.27	-4.87/-5.97	-9.04/-8	-7.02/-8.28	-6.44/-7.46	-7.5/-5.91	-8.71/-7.38	-6.68/-7.32	-8.96/-6.61	-4.35/-3.5	-5.79/-5.21	-4.12/-3.23	-2.55/-3.47
Theta (52°)	-1.53/-1.76	-1.75/-1.95	-2.64/-2.91	-3.26/-1.08	0.58/0.95	0.48/-0.36	-1.41/-2.3	-2.47/-0.84	0.13/-0.78	-2.21/-1.98	-2.64/-2.73	-3.2/-2.76	-2.37/-2.97	-3.97/-5.74	-8.29/-7.14	-10.97/-10.28	-11.15/-10.39	-10.57/-10.26	-11.17/-11.3	-2.99/-2.86	-4.71/-4.07	-4.17/-3.1	-2.39/-2.38	-2.47/-2.76
Theta (67.5°)	-2.81/-2.79	-2.12/-1.07	-1.43/-1.85	-3.13/-3.12	-1.45/0.38	0.78/-0.33	-1.61/-1.85	-1.81/-0.47	0.53/0.14	-1.0/8.5	-1.13/-1.92	-3.39/-3.31	-2.76/-2.36	-2.99/-5.11	-6.58/-9.73	-11.97/-6.63	-8.31/-7.35	-6.58/-8.86	-9.71/-10.98	-7.86/-9.89	-4.28/-9.46	-7.07/-5.68	-4.72/-3.89	-3.07/-3.07
Theta (75°)	-2.76/-1.89	-1.81/-1.27	-1.41/-1.27	-4.38/-2.41	-1.92/-0.66	-0.98/-1.11	-1.79/-2.38	-1.22/-1.32	-0.61/-0.4	-1.13/-2.55	-2.07/-2.21	-4.22/-6.23	-7.56/-6.16	-8.89/-7.84	-8.64/-8.76	-9.16/-10.5	-9.3/-11.4	-9.24/-9.59	-10.88/-12.23	-10.99/-9.72	-6.15/-5.76	-6.71/-5.44	-3.78/-3.97	-3.87/-3.17
Theta (82.5°)	-1.97/-2.43	-2.3/-0.88	-1.13/-2.23	-3.87/-3.69	-2.47/-1.86	-1.03/-1.1	-1.57/-1.79	-2.42/-1.87	-0.58/-0.38	-1.38/-2.84	-4.03/-4.67	-3.99/-4.65	-6.81/-8.99	-7.61/-7.26	-6.91/-7.84	-8.14/-9.02	-8.16/-8.39	-5.11/-5.2	-4.92/-5.9	-4.92/-4.57	-5.37/-4.1	-2.64/-3.05	-1.72/-1.57	
Theta (90°)	-2.37/-1.64	-1.06/-0.48	-0.81/-2.35	-4.89/-4.18	-2.58/-2.16	-1.61/-2.88	-2.07/-2.03	-2.37/-1.91	-0.63/-1.19	-1.63/-0.11	-1.35/-3.8	-5.08/-4.96	-5.59/-4.94	-6.36/-8.73	-8.92/-6.3	-7.19/-6.51	-6.68/-8.23	-5.43/-10.09	-9.88/-5.95	-6.68/-8.3	-7.15/-7.78	-6.92/-3.7	-3.13/-4.42	-2.71/-3.29
Theta (97.5°)	-2.63/-2.04	-1.39/-0.73	-1.1/23	-2.8/-3.24	-2.12/-2.22	-2.86/-3.21	-2.49/-1.4	-2.17/-2.73	-2.32/-1.78	-1.47/-1.27	-2.55/-3.84	-5.95/-7.02	-8.79/-7.87	-8.37/-8.73	-8.24/-8.41	-7.71/-7.96	-6.68/-5.48	-3.16/-3.72	-5.26/-6.05	-5.71/-5.61	-4.94/-4.11	-4.82/-3.7	-2.51/-3.31	-2.55/-2.55
Theta (105°)	-3.21/-4.01	-3.16/-2.53	-1.51/-0.78	-1.11/0.84	-1.28/-2.88	-3.69/-2.11	-0.55/0.5	-0.21/-1.99	-2.73/-2.74	-1.93/-2.32	-2.16/-3.04	-4.1/-5.99	-9.66/-8.62	-7.83/-8.69	-6.31/-5.7	-8.03/-6.24	-6.32/-7.18	-5.32/-4.24	-5.57/-8.24	-7.32/-7.68	-8.99/-7.56	-5.88/-4.47	-3.93/-4.85	-4.01/-4.57
Theta (112.5°)	-3.44/-3.29	-2.62/-2.43	-2.86/-2.67	-2.38/-2.7	-3.18/-3.08	-2.25/-1.58	-0.78/-0.7	-1.57/-2.49	-2.56/-3.38	-3.86/-4.62	-4.97/-6.85	-4.95/-5.58	-7.12/-9.98	-9.67/-10.25	-9.85/-8.3	-8.27/-7.56	-7.35/-8.41	-4.81/-2.98	-5.3/-10.12	-5.23/-6.03	-5.41/-6.36	-6.59/-5.46	-4.01/-4.32	-3.82/-3.14
Theta (120°)	-5.13/-5.19	-5.05/-3.25	-2.58/-2.86	-3.19/-3.33	-3.63/-3.44	-2.38/-0.66	-1.55/-2.86	-3.32/-3.32	-3.37/-4.47	-5.62/-6.95	-6.54/-6.27	-7.33/-6.56	-6.18/-3.76	-7.43/-8.64	-8.52/-4.97	-7.19/-6.54	-6.51/-6.73	-4.05/-4.3	-4.73/-12.71	-5.92/-7.75	-3.75/-5.93	-5.85/-5.19	-3.68/-3.23	-3.98/-4.54
Theta (127.5°)	-4.66/-4.99	-6.05/-5.19	-3.69/-2.95	-2.41/2.81	-4.17/-4.49	-3.06/-2.88	-3.91/-4.16	-4.09/-3.76	-2.56/-2.14	-2.42/-8.87	-5.98/-7.38	-7.07/-8.15	-6.77/-5.58	-6.52/-8.21	-8.41/8.78	-11.91/8.26	-4.46/-6.47	-4.32/-2.35	-5.04/-9.27	-4.94/-6.94	-2.63/-6.7	-4.07/-2.48	-1.04/-4.53	-3.47/-3.14
Theta (135°)	-2.36/-2.72	-1.98/-2.57	-3.01/-2.37	-2.34/-2.64	-3.03/-4.45	-4.78/-4.08	-4.08/-3.7	-3.22/-3.78	-3.68/-3.26	-3.51/4.97	-5.48/-5.4	-8/9.31	-9.29/-8.15	-7.39/-7.49	-8.11/-10.38	-10.76/-6.87	-3.99/-6.58	-5.04/-3.18	-4.97/-6.91	-5.54/-6.23	-6.13/-3.02	-2.24/-2.62	-2.61/-3.22	-3.19/-2.18
Theta (142.5°)	-2.96/-2.03	-2.21/-1.49	-0.99/-1.46	-1.81/-1.55	-2.28/-4.5	-5.26/-4.66	-3.59/-2.29	-1.74/-3.23	-3.37/-4.47	-1.55/-2.86	-4.86/-5.01	-5.54/-7.85	-9.98/-10.6	-11.59/-11.2	-10.11/-10.3	-9.32/-11.55	-8.72/-7.95	-8.53/-10.25	-7.35/-6.1	-4.4/-7.9	-6.07/-6.86	-2.84/-3.06	-2.31/-3.67	-3.27/-2.64
Theta (150°)	-2.32/-2.08	-1.84/-2.17	-2.02/-1.24	-2.39/-3.62	-6.14/-7.96	-9.18/8.6	-7.62/-5.23	-4.82/-6.11	-5.96/-6.47	-7.37/-8.17	-11.51/-8.76	-10.74/-11.15	-10.62/-10.74	-10.73/-11.55	-11.45/-10.42	-9.06/-10.29	-12.74/-11.22	-8.63/-7.9	-8.98/-10.29	-8.17/-7.2	-8.17/-7.2	-5.29/-4.21	-5.29/-4.21	-5.29/-4.21
Theta (157.5°)	-2.07/-2.2	-2.59/-2.48	-3.07/-4.46	-6.41/-8.96	-7.98/-6.75	-7.36/-8.51	-7.67/-7.38	-8.19/-9.18	-8.07/-6.54	-6.03/-6.11	-7.52/-9.54	-9.22/-7.95	-10.12/-9.21	-10.56/-11.1	-10.68/-10.67	-12.16/-11.73	-9.99/-9.06	-8.51/-7.84	-9.13/-8.87	-7.68/-8.45	-9.39/-7.87	-5.49/-3.73	-3.35/-3.02	-2.71/-2.62
Theta (165°)	-6.93/-6.67	-7.47/-8.99	-9.29/9.15	-8.74/8.75	-9.43/-9.71	-9.87/9.55	-8.75/-7.6	-7.73/-7.82	-8.1/8.55	-5.11/5.52	-5.76/6.84	-7.28/-7.19	-7.16/-7.6	-7.06/-6.13	-5.92/6.71	-8.43/-9.65	-8.97/-8.33	-8.08/-8.16	-6.86/-6.54	-4.76/-4.25	-4.12/-4.11	-3.71/-3.22	-3.86/-5.27	-5.98/-7.01
Theta (172.5°)	-5.56/-5.66	-5.52/-5.88	-6.29/-7.08	-7.9/8.83	-9.96/9.89	-9.91/9.66	-9.99/10.12	-9.91/9.24	-8.5/-9.71	-7.45/-6.77	-6.89/7.03	-7.21/7.37	-7.59/-7.27	-7.52/7.35	-7.05/6.53	-6.97/7.36	-8.82/9.66	-7.9/6.87	-5.59/4.46	-4.15/4.65	-5.61/6.47	-5.97/6.23	-6.51/6.43	-6.51/6.43
Theta (180°)	-6.82/-7.28	-8.11/-10.13	-10.88/-10.63	-9.94/-9.22	-8.43/-8.54	-9.8/-11.36	-11.27/-11.26	-11.16/-11.24	-10.71/-10.26	-10.3/9.6	-8.85/-8.66	-8.17/-8.69	-7.58/-7.16	-7.11/7.61	-7.83/-8.16	-8.62/-9.46	-9.93/-10.17	-10.61/-10.64	-11.56/-12.11	-12.61/-12.11	-11.02/-9.93	-9.15/-8.5	-7.42/-7.39	-7.16/-7.27
Freq (GHz)	6.895/6.9	Phi1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG (dB)	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°)	0.25/0.24	0.57/0.52	0.58/0.3	-0.24/-0.81	-1.75/-2.61	-4.02/-5.19	-6.79/-8.12	-8.98/-10.72	-9.6/7.81	-6.68/-6.99	-3.89/-2.98	-2.15/-1.54	-1.14/-0.81	-0.58/-0.55	-0.48/-0.52	-0.85/-1.53	-2.28/-3.17	4.14/-5.22	-6.64/-8.39	-10.25/-10.68	-8.82/-7.38	-6.25/-5.25	-4.16/-2.98	-1.70/-0.82
Theta (7.5°)	-1.85/-1.67	-1.61/-1.72	-1.79/-1.98	-2.04/-2.05	-2.39/-2.39	-3.35/-3.64	-4.25/-4.84	-5.24/-5.75	-6.84/-7.69	-6.86/-5.96	-4.69/-3.74	-2.75/-1.89	-1.31/-0.92	-0.74/-0.67	-0.55/-0.68	-0.59/-0.75	-1.19/-1.81	-2.83/-4.08	-5.77/-7.16	-7.32/-7.14	-6.18/-5.27	-4.63/-4.19	-3.64/-3.03	-2.61/-2.92
Theta (15°)	-3.41/-2.95	-3.27/-3.09	-3.12/-3.29	-2.61/-2.56	-2.87/-3.05	-3.15/-3.48	-4.34/-4.88	-5.41/-6.51	-6.32/-4.79	-4.13/-3.98	-4.34/-4.6	-4.19/-3.4	-2.77/-1.92	-1.61/-1.27	-1.22/-0.68	-0.38/-0.72	-1.32/-0.61	-1.62/-2.91	-4.21/-5.22	-5.96/-5.65	-4.94/-4.56	-3.43/-3.91	-3.52/-4.07	-3.83/-3.69
Theta (22.5°)	-1.79/-2.15	-2.49/-2.08	-1.99/-2.36	-2.96/-2.58	-2.58/-1.93	-1.83/-2.11	-2.48/-2.53	-3/3.6	-4.45/-5.12	-4.9/-4.62	-4.45/-3.68	-3.27/-3.09	-2.61/-1.78	-1.34/-1.4	-1.21/-0.86	-0.35/-0.09	-0.43/-1.08	-1.6/-2.4	-3.23/-3.83	-4.12/-4.2	-4.22/-3.82	-3.07/-2.64	-2.53/-2.35	-2.06/-1.69
Theta (30°)	0.56/0.37	-0.18/-0.48	-0.65/-1.96	-3.02/-3.14	-2.81/6.9	-1.26/-1.09	-1.11/-1.16	-1.11/-1.28	-2.07/-3.37	-4.34/-4.19	-3.22/-2.03	-1.61/-1.48	-0.65/0.17	0.67/0.61	-0.08/-0.12	-1.71/-1.79	-1.64/-1.3	-1.41/-1.89	-2.52/-3.08	-2.93/-3.26	-1.71/-0.92	-0.34/-0.01	0.01/0.05	0.10/0.05
Theta (37.5°)	-1.0/8.4	-0.96/-1	-0.87/-0.63	-0.43/-0.59	-1.21/-1.53	-0.76/2.28	0.57/0.05	-1.17/-1.3	-1.78/-3.26	-4.56/-4.16	-3.64/-2.63	-2.57/-3.05	-3.04/-1.68	0.05/3.4	-0.8/2.43	-0.57/0.26	-1.61/-0.17	-2.01/-1.23	-1.67/-0.97	-0.52/0.87	-0.68/-0.63	-1.02/-0.93	-0.47/-0.97	
Theta (45°)	-0.47/0.23	-0.17/-0.33	0.71/37	2.11/2.07	0.94/-0.5	0.13/-1.38	1.47/11	-0.51/-1.21	-1.09/-1.94	-4.02/-5.02	-3.89/-2.58	-2.6/-4.2	-5.29/-5.88	-4.54/-2.63	-1.65/-2.5	-2.73/-2.62	-2.21/-0.86	-0.17/-0.45	-0.57/-0.27	0.73/1.2	0.14/-1.1	-0.53/-0.3	0.15/0.36	0.32/-0.1
Theta (52.5°)	0.71/1.09	1.16/0.63	1.45/1.44	1.55/2.39	2.87/1.99	-0.19/-1.64	-0.81/-0.83	-1.41/-1.56	-2.31/-4.21	-4.16/-2.84	-1.92/-1.41	-0.91/-1.46	-3.15/-3.85	-3.64/-4.21	-1.49/-1.17	-1.37/-1.41	-1.89/-1.56	2.17/0.43	-2.15/-2.91	-2.35/-4.05	0.65/0.54	0.88/0.03		
Theta (60°)	1.06/1.17	0.82/0.13	0.87/1.12	1.27/0.85	0.56/0.31	-0.23/-0.08	-0.96/-0.82	-1.15/-2.37	-5.51/-4.44	-2.14/-2.04	-2.74/-3.05	-1.41/-1.55	-1.81/2.29	-3.55/-3.67	-3.01/1.88	-2.24/2.35								



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Θ (105°)	0.821-1.94	-1.14-2.83	-2.76/2.52	-5.77/4.3	-5.32/9.87	-10.14/8.32	-7.26/6.6	-9.35/12.49	-11.62/9.68	-8.27/8.57	-10.47/10.62	-8.63/7.7	-9.32/6.49	-5.83/6.91	-5.48/3.97	-3.87/1.82	-4.19/4.91	-0.05/1.91	-1.24/3.36	1.29/1.93	-0.05/6.07	-0.83/0.96	1.69/0.32	1.55/0.68	
Θ (112.5°)	-0.74/-2.46	-2.15/-3.12	-5.17/-4.18	-6.55/-6.12	-4.63/-6.14	-7.74/-9.4	-9.24/9.51	-11.55/11.55	-10.25/10.39	-9.76/10.32	-11.19/11.53	-8.81/8.04	-7.29/5.45	-6.75/8.07	-4.23/-4.4	-4.75/-2.05	-3.88/-4.35	0.59/1.01	-3.23/-3.36	2.28/1.67	1.73/-2.2	-1.83/0.22	1.64/-1.58	-0.01/-1.14	
Θ (120°)	-3.15/-3.31	-7.09/-4.87	-6.29/-5.78	-6.33/-3.38	-7.61/-1.7	-9.52/-7.62	-8.03/-8.89	-10.96/11.42	-11.11/-12.17	-11.52/11.72	-11.25/10.01	-11.2/10.76	-9.44/-7.44	-6.91/-7.07	-3.44/2.16	-4.54/-0.6	-1.56/-1.93	2.93/0.77	-0.67/-2.04	1.49/2.66	2.35/-3.72	-3.42/0.26	1.49/-0.78	0.21/-1.86	
Θ (127.5°)	-1.78/-3.02	-5.84/-4.61	-3.85/-4.29	-4.37/-4.94	-6.38/-7.44	-6.51/8.15	-11.23/9.63	-10.34/10.71	-10.05/-8.45	-6.68/7.15	-7.84/9.56	-7.63/9.18	-7.57/5.09	-5/8.18	4.65/8.44	-5.41/2.65	-2.61/1.67	1.86/1.68	-1/1.76	0.27/1.03	1.22/2.24	-1.81/0.09	0.74/-1.15	0.54/0.26	
Θ (135°)	-1.77/-2.2	-2.17/-2.7	-2.51/2.73	-4.16/-4.37	-4.07/-4.5	-6.67/-7.15	-7.96/7.11	-7.13/-9.27	-10.73/10.57	-9.94/-11.42	-9.19/-6.47	-7.88/-10.43	-8.91/-7.23	-7.85/-9.9	-7.09/-4.97	-3.44/2.97	0.16/0.98	-1.22/-3.04	-1.79/3	-1.22/3.04	-1.79/3	-1.33/0	-1.13/0.14	-0.23/-2.21	-2.5/-1
Θ (142.5°)	-1.87/-2.03	-2.42/-2.4	-1.84/-2.41	-3.37/3.58	-4.01/-5.77	-7.86/8.95	-6.56/4.42	-4.11/5.49	-9.45/11.32	-8/7.36	-8.44/11.23	-11.49/10.99	-10.65/10.4	-10.3/9.9	-10.51/12.19	7.43/-6.5	-3.13/1.98	-2.13/2.33	-2.23/4.75	-4.26/2.46	-1.03/1.65	-6.75/6.67	-0.69/0.95	-1.57/-1.88	
Θ (150°)	-1/1.27	-1.37/1.63	-1.8/2.22	-2.79/4.38	-6.25/-7.73	-8.41/8.98	-9.57/7.03	-6.35/7.78	-8.47/8.6	-8.83/9.09	-9.06/9.89	-11.43/10.58	-9.89/9.93	-9.32/10.02	-9.96/9.25	-8.55/10.05	-9.19/7.74	-5.4/3.52	-5.09/4.71	-2.92/3.97	-5.04/4.48	-2.34/-1.18	-1.56/-1.75	-2.88/1.55	
Θ (157.5°)	-3.99/-4.72	-5.07/-4.2	-3.83/4.71	-6.17/8.85	-9.27/8.39	-9.41/11.29	-10.66/10.18	-11.41/10.34	-8.21/6.09	-4.61/4.59	-5.91/8.7	-9.66/9.25	-8.14/-9.17	-9.17/9.42	-9.5/8.37	-8.4/-8.95	-8.61/10.24	-9.02/6.58	-6.15/4	-2.17/2.43	-3.01/3.06	-2.73/-2.15	-2.62/-3.83	-4.37/-5.46	
Θ (165°)	-9.11/8.32	-8.62/9.56	-8.91/9.03	-9.47/9.77	-10.83/10.75	-10.73/11.19	-10.6/9.85	-10.32/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5	-10.73/12.5
Θ (172.5°)	-9.19/8.63	-8.25/8.87	-8.85/8.98	-8.83/9.67	-10.31/9.73	-9.95/10.07	-10.61/11.45	-12.1/11.8	-11.3/10.53	-9.41/8.44	-8.14/7.92	-7.87/7.44	-7.51/7.4	-7.11/6.03	-5.7/5.05	-4.9/5.2	-6.26/7.76	-9.58/10.03	-7.74/5.8	-4.27/2.97	-2.78/3.94	-8.24/7.9	-7.97/8.04	-8.41/8.09	
Θ (180°)	-7.81/8.18	-9.06/10.41	-9.87/9.9	-9.91/9.02	-8.09/8.08	-8.98/10.35	-10.42/10.05	-9.71/9.7	-9.38/9.14	-8.54/8.24	-7.9/7.7	-7.1/6.38	-5.86/5.6	-5.65/6.13	-6.69/7.39	-7.9/8.53	-8.87/9.34	-9.66/9.13	-9.35/9.7	-9.56/9.21	-8.17/7.73	-8.36/8.7	-8.26/7.99	-7.95/7.84	
Freq(Hz)	6.995GPol	Phi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ (0°)	-3.14/-2.27	-1.82/-1.58	-1.28/-1.48	-1.86/-2.26	-3.19/-3.76	-5.08/-6.18	-7.53/-8.7	-9.86/11.59	-10.2/9.11	-7.7/7.62	-6.13/-6.76	-5.06/-4.41	-4.03/-3.27	-2.84/-2.71	-2.38/2.37	-2.97/3.9	-4.55/3.13	-5.43/-6.31	-7.77/9.3	-10.51/10.71	-9.72/8.7	-7.9/7.05	-6.39/5.73	-4.82/-3.7	
Θ (7.5°)	-5.16/-4.94	-5.08/-4.76	-4.84/4.88	-4.28/3.95	-4.23/4.31	-4.44/4.34	-4.46/4.82	-5.03/5.62	-6.28/6.99	-6.93/7.1	-6.83/6.27	-5.33/-4.1	-3.19/2.42	-2.21/1.84	-1.7/1.59	-1.76/1.9	-5.04/5.84	-6.58/6.69	-6.63/6.85	-6.77/6.62	-6.75/6.67	-6.43/6.67	-6.43/6.67	-6.43/6.67	
Θ (15°)	-7.29/6.6	-8.66/5.58	-5.24/4.92	-4.72/5.48	-5.54/5.47	-5.68/5.97	-6.3/6.08	-5.88/5.19	-3.98/3.2	-2.69/3.04	-3.47/3.88	-3.89/3.63	-3.68/3.93	-3.85/3.15	-2.57/1.74	-1.07/0.63	-0.55/0.88	-1.16/1.75	-2.43/3.05	-3.6/3.97	-3.94/4.2	-4.98/5.82	-6.72/8.87	-8.69/8.3	
Θ (22.5°)	-4.45/-4.98	-5.37/-4.09	-3.19/-3.96	-3.57/-3.28	-3.79/4.26	-4.51/-4.68	-4.06/-3.53	-3.9/4.8	-5.65/-5.46	-4.27/3.86	-3.86/3.2	-2.69/2.7	-2.67/1.98	-1.37/0.92	-0.36/0.1	0.11/0.22	-0.61/0.9	-0.74/1.04	-1.32/-1.97	-2.61/-2.82	-2.88/2.88	-2.93/-2.91	-3.62/-4.68	-4.8/4.53	
Θ (30°)	-2.78/-3.4	-3.46/-3.39	-2.68/-2.92	-3.69/4.35	-5.81/5.17	-4.7/3.97	-3.2/2.46	-1.7/2.07	-2.94/3.22	-3.92/3.65	-3.04/2.52	-4.24/3.22	-3.92/3.65	-3.04/2.52	0.91/1.77	1.92/1.4	0.47/0.63	-1.29/1.43	-1.04/0.83	-1.29/2.73	-0.92/0.35	0.92/0.78	-0.05/0.84	-2.29/-3.18	
Θ (37.5°)	-2.1/2.16	-3.6/3.72	-3.35/2.55	-3.55/5.49	-6.36/6.39	-4.35/2.52	-1.87/1.95	-2.8/3.25	-3.77/4.43	-5.01/4.36	-4.42/3.93	-3.19/3.72	-3.49/1.68	0.21/0.83	0.64/0.31	0.14/0.39	-1.11/-1.23	-0.08/1.27	1.62/0.92	-0.25/-0.45	0.13/0.52	-0.02/1.43	-2.48/-1.21	-1.24/1.95	
Θ (45°)	-1.62/0.78	-2.28/-3.88	-3.24/-2.37	-1.81/-1.96	-2.82/-4.6	-3.33/-1.14	-1.07/0.68	-1.74/2.39	-3.02/-3.97	-5.13/4.81	-3.45/-4.21	-4.02/-3.42	-4.84/-3.58	-1.21/0.69	1.71/0.82	0.05/0.57	0.92/2.7	2.69/1.7	0.76/1.44	2.31/2.62	1.98/1.09	0.9/0.21	-0.62/1.18	0.6/0.57	
Θ (52.5°)	-0.230/0.38	-0.74/-1.75	-1.34/1.96	-2.19/1.88	-0.93/-1.79	-4.28/5.6	-3.88/3.5	-3.09/2.05	-2.56/6.1	-6.03/3.3	-2.43/3.64	-3.96/3.5	-2.97/1.22	-1.5/2.13	-0.03/1.53	2.36/2.29	3.02/1.89	3.14/4.55	4.22/8.5	1.14/0.1	-0.49/0.7	0.20/1.14	0.62/0.14	0.34/0.79	
Θ (60°)	-0.3/-1.42	-1.99/-2.72	-1.2/-1.51	-0.72/3.02	-4.34/4.26	-4.02/3.27	-1.24/0.48	-1.84/3.92	-6.38/4.16	-3.7/3.39	-3.13/3.78	-2.92/2.43	-2.68/2.96	-1.77/1.23	2.42/3.28	3.84/3.41	2.68/1.58	1.43/2.33	1.73/0.62	-0.31/1.44	-1.74/0.38	0.38/0.27	-0.68/0.54		
Θ (67.5°)	0.23/-0.87	-2.53/-2.63	-3.48/3.02	-4.31/-4.66	-5.24/-3.42	-2.08/3.06	-3.88/4.49	-2.76/3.62	-4.97/4.86	-3.54/3.53	-3.51/3.43	-4.33/-4.4	-2.02/2.56	-5.01/3.39	-0.24/1.02	-0.48/0.34	1.61/1.89	2.79/1.18	0.03/0.63	-0.05/0.89	-2.69/2.54	-0.22/1.02	0.86/0.4	0.15/0.43	
Θ (75°)	-1.02/0.85	-3.1/2.58	-3.15/2.99	-5.54/4.74	-5.59/3.58	-4.85/5.91	-6.67/6.62	-4.94/6.51	-3.65/4.64	-2.72/3.23	-3.82/1.89	-1.56/2.78	-4.84/4.32	-1.75/0.34	0.29/1.06	-0.48/0.34	1.61/1.89	2.79/1.18	0.03/0.63	-0.05/0.89	-2.69/2.54	-0.22/1.02	0.86/0.4	0.15/0.43	
Θ (82.5°)	-2.8/3.21	-3.65/4.5	-5.83/4.3	-5.12/5.49	-6.74/5.85	-7.64/5.51	-5.64/6.83	-7.46/4.19	-2.94/4.55	-3.32/4.79	-5/6.41	-6.82/6.1	-5.68/3.87	-1.63/0.11	1.44/0.62	-1.94/0.06	0.13/1.73	0.31/3.89	-0.86/0.58	0.14/-1.56	-3.8/4.12	-5.16/4.36	-3.51/2.73	-2.7/2.11	
Θ (90°)	-4.12/-3.76	-6.94/-7.14	-8.69/8.31	-8.52/7.26	-6.53/6.4	-8.54/7.8	-4.35/7.8	-7.28/3.61	-3.43/4.9	-2.08/4.14	-4.77/5.61	-5.44/-4.44	-4.29/3.73	4.1/1.16	-0.2/1.18	-0.23/1.41	0.68/0.99	-0.5/3.02	-2.94/0.79	-1.32/1.71	-1.35/4.77	-1.76/2.95	-5.18/6.69	-2.92/2.48	
Θ (97.5°)	-6.46/6.96	-6.89/9.37	-8.13/6.09	-7.57/9.98	-6.52/6.38	-7.78/7.19	-5.92/6.89	-5.25/6.62	-2.21/6.79	-5.95/5.13	-6.63/6.88	-6.57/7.25	-5.52/3.75	-1.55/0.17	-0.46/0.18	-0.16/1.41	1.38/1.03	-0.35/4.15	-0.55/0.17	-0.26/3.07	-1.13/1.1	-1.17/0.55	-1.21/1.26	-4.93/4.19	
Θ (105°)	-4.1/-5.18	-5.97/5.07	-4.47/5.18	-7.04/6.02	-6.4/5.35	-8.9/8.21	-9.01/8.66	-5.46/2.66	-4.34/6.06	-4.48/5.42	-5.56/6.61	-4.86/6.73	-5.22/4.96	-0.65/0.11	1.24/0.33	-1.51/0.4	2.59/1.82	3.14/0.87	-0.76/1.83	1.75/0.49	-0.91/0.8	-1.33/0.58	-7.89/6.95	-3.87/3.48	
Θ (112.5°)	-6.74/9.1	-7.61/8.72	-8.54/8.45	-6.14/7.69	-8.83/6.12	-7.84/8.45	-5.15/6.16	-5.25/5.32	-7.79/6.03	-5.4/5.96	-4.58/4.94	-5.25/4.42	-2.21/2.61	-0.52/1.18	1.5/0.77	-5.48/2.16	1.64/0.61	1.25/1.79	1.31/2.48	0.18/0.31	-0.53/0.58	-3.43/5.63	-8.06/8.8	-6.14/5.71	
Θ (120°)	-9.25/9.09	-9.5/7.4	-5.69/6.11	-6.67/8.83	-7.83/5.33	-3.28/5.92	-6.72/7.96	-5.27/6.76	-6.98/6.79	-9.87/7.38	-6.25/6.33	-5.63/4.54	-2.74/3.04	-0.78/0.96	-1.04/2.04	-5.07/0.73	1.41/3.33	0.53/1.37	0.94/2.55	1.58/0.36	-0.25/2.49	-1.67/2.67	-5.43/7.67	-7.38/7.48	
Θ (127.5°)	-9.39/8.64	-6.91/6.65	-6.66/6.58	-8.21/7.72	-7.84/6.43	-5.72/4.88	-5.13/4.82	-8.01/6.22	-5.54/6.37	-6.73/6.8	-7.78/7.11	-5.97/6.23	-2.42/3.35	-3.83/2.79	-1.91/2.6	-0.78/1.98	2.01/3.31	1.14/0.14	-0.89/2.42	0.64/-1.91	-0.46/0.5	-0.37/0.49	-2.15/4.74	-5.85/0.54	
Θ (135°)	-11.11/11.45	-7.82/6.71	-6.25/6.69	-10.13/6.45	-6.27/5.54	-6.5/3.97	-4.84/4.85	-7.52/6.91	-5.89/5.34	-7.13/6.88	-6.26/5.97	-6.16/5.77	-4.92/3.91	-4.82/2	-1.9/1.89	-0.58/0.85	0.43/0.33	1.23/0.39	0.03/0.88	-0.26/3.43	-3.66/0.79	-2.94/2.47	-2.19/3.29	-4.06/4.3	
Θ (142.5°)	-9.52/9.06	-8.7/7.61	-8.18/7.84	-6.97/6.44	-5.22/6.23	-8.41/7.85	-6.67/6.39	-7.26/8.1	-6.16/5.01	-4.89/6.7	-6.57/6.12	-7.47/6.32	-5/5.58	-4.79/2.08	-0.47/0.88	0.51/1.09	1.30/0.97	1.2/0.1	-0.72/0.51	-1.67/3.23	-4.44/6.12	-3.21/4.83	-2.63/1.76	-5.17/9.03	
Θ (150°)	-6.16/-6.85	-7.8/8.76	-7.98/7.77	-6.73/5.01	-4.71/6.48	-8.63/10.8	-9.34/8.33	-8.04/8.91	-9.12/9.78	-7.79/6.34	-4.68/4.66	-6.43/6.01	-4.01/3.09	-1.33/0.76	1.36/1.28	0.67/0.05	0.20/0.79	1.16/1.16	-0.36/3.83	-5.62/6.88	-6.16/3.5	-3.32/4.54	-4.6/4.72	-6.4/7.2	
Θ (157.5°)	-9/9.91	-8.58/8.14	-8.56/8.68	-8.58/9.43	-11.08/11.24	-9.02/7.89	-7.75/9.94	-8.34/10.02	-11.06/10.3	-7.93/5.46	4.35/4.48	-5.36/4.59	-3.4/2.13	-1.49/1.62	-1.59/0.61	-0.68/1.24	-0.96/0.2	0.94/1.78	1.76/0.94	-0.62/2.51	-5.83/4.66	-5.43/4.81	-5.8/5.85	-8.31/	



Radiated Composite Gain Data <6GHz U-NII5~UNII-8>

Appendix B

Theta	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	
6.175GHz Pol. Theta	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	
DG(dBi)	Phi(0°)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°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	
0°	-5.11-5.75	-5.55-5.38	-5.44-5.24	-5.04-5.17	-6.06-6.89	-7.37-7.07	-6.76-6.44	-5.92-5.87	-6.23-6.57	-6.05-5.34	-4.96-4.61	-4.95-5.57	-5.76-6.35	-6.22-5.35	-4.23-3.4	-3.12-2.77	-3.14-3.56	-3.91-4.01	-4.19-6.03	-4.92-5.19	-5.46-5.83	-6.14-6.66	-6.56-5.96	-5.96-5.97	
15°	-3.58-3.37	-3.37-3.17	-3.14-3.68	-4.94-4.94	-5.81-7.3	-6.06-6.13	-5.33-5.13	-4.73-4.43	-2.89-2.09	-2.62-3.39	-4.14-5.06	-6.48-6.63	-6.27-5.94	-5.37-4.69	-3.82-3.26	-2.04-0.44	0.38-0.65	1.27-1.64	1.32-1.13	-0.64-2.51	-3.52-3.73	-1.84-0.29	-0.52-1.39	-0.96-0.42	-0.26-0.39
30°	-3.34-3.57	-3.88-4.17	-3.71-3.03	-2.53-2.22	-2.69-4.26	-5.41-6.3	-6.15-6.67	-5.26-4.64	-4.17-3.9	-3.97-4.82	-5.15-5.67	-5.81-5.79	-4.53-2.68	-0.78-0.04	0.13-0.15	0.11-0.05	-0.20-0.53	-1.19-2.57	-3.52-3.48	-3.57-3.75	-3.51-3.31	-3.12-3.14	-3.03-3.17	-3.28-3.26	
45°	-3.75-4.66	-5.42-6.06	-5.11-4.57	-5.33-5.77	-5.71-6.26	-6.69-6.29	-4.96-4.32	-4.36-4.7	-4.93-4.96	-4.26-3.29	-2.73-2.85	-3.33-3.63	-3.28-2.21	-0.98-0.29	1.13-1.55	1.28-0.74	0.37-0.24	0.26-0.24	-1.22-2.74	-3.45-4.07	-4.08-2.9	-2.22-2.26	-2.79-2.37	-1.94-2.37	
60°	-1.74-2.66	-1.64-4.45	-5.81-7.3	-8.06-1.83	-6.15-6.25	-5.66-6.66	-6.34-5.7	-4.62-3.98	-4.78-5.36	-5.02-5.02	-5.43-5.61	-5.38-3.96	-2.04-0.44	0.38-0.65	1.27-1.64	1.32-1.13	-0.64-2.51	-3.52-3.73	-1.84-0.29	-0.52-1.39	-0.96-0.42	-0.26-0.39	-0.24-1.14		
75°	-2.32-4.93	-6.21-5.45	-6.52-8.23	-7.84-7.91	-6.83-5.09	-3.61-4.24	-6.31-4.87	-3.34-3.08	-3.87-5.41	-5.59-4.57	-5.13-5.73	-4.11-1.77	-1.49-1.78	-0.63-0.12	-0.62-0.05	0.61-1.28	2.222	1.03-0.54	0.61-1.2	1.36-0.61	-0.43-1.54	-1.54-0.89	0.15-0.13	-0.66-1.07	
90°	-1.59-3.83	-4.44-4.04	-5.4	-4.07-3.93	-4.73-4.55	-4.25-3.89	-3.31-3.66	-3.59-4.07	-3.91-4.51	-5.2-2.89	-1.02-2.97	-2.86-2.16	-1.62-1.21	-0.67-0.73	-0.43-1.56	2.43-2.71	2.73-2.71	2.69-2.25	2.21-1.89	1.99-1.09	-0.41-1.47	-2.7-2.09	-0.82-0.45	-1.74-1.79	
105°	-1.63-1.77	-2.35-2.88	-3.9-3.29	-3.39-3.13	-2.52-3.18	-4.45-4.67	-3.85-3.04	-2.67-2.79	-2.83-4.42	-3.82-3.34	-3.71-4.67	-4.45-4.04	-2.60-0.46	0.84-0.45	-0.65-1.06	1.85-2.35	1.82-2.23	2.24-0.18	-1.48-0.68	1.25-0.97	0.84-0.1	-0.44-0.33	0.27-0.22	-0.84-1.87	
120°	-2.62-2.61	-3.13-3.59	-3.49-4.05	-3.96-2.69	-1.94-2.65	-2.85-2.78	-4.57-3.62	-4.22-3.4	-2.09-2.47	-2.91-3.49	-4.39-4.57	-4.31-3.55	-3.34-3.67	-1.81-1.82	-1.49-1.22	-0.04-1.92	1.18-0.83	-0.13-3.04	-1.98-0.68	-0.56-1.46	-0.72-1.28	-0.78-0.72	0.22-0.66	-0.55-1.49	
135°	-1.24-1.84	-2.56-3.09	-1.68-1.74	-2.29-3.37	-4.23-3.54	-3.15-3.93	-4.34-6.3	-2.92-4.19	-3.1-3.78	-2.62-3.1	-3.97-3.05	-4.3-4.37	-3.34-1.97	-0.39-0.09	0.38-0.71	-2.36-3.3	0.43-0.54	-1.41-3.93	-3.46-1.9	-1.37-3.06	-1.43-2.24	-2.65-1.25	-0.46-1.5	-0.78-0.23	
150°	-2.18-2	-2.66-4.06	-5.54-5.19	-2.32-1.89	-2.31-3	-2.89-3.38	-4.11-5.3	-5.18-4.69	-5.23-4.16	-3.64-2.27	-4.42-4.09	-3.11-2.87	-2.52-1.73	-2.03-1.49	-1.32-4.53	-0.28-0.2	-0.42-0.53	-0.51-1.66	-0.41-1.91	-2.21-4.2	-2.41-3.6	-2.16-1.98	-1.08-0.63		
165°	-1.33-0.15	-1.32-2.31	-4.22-3.42	-2.66-1.31	-2.84-3.49	-1.39-1.47	-3.28-3.63	-2.52-2.75	-2.87-3.27	-3.11-3.76	-4.95-4.71	-4.39-3.87	-3.61-0.66	-2.15-1.04	-0.27-3.84	-4.85-0.59	0.56-0.06	-3.05-3.27	-0.82-0.95	1.39-0.2	-0.55-0.17	-0.43-1.36	-1.25-2.04	-0.87-0.41	
180°	-2.64-1.2	-4.01-3.44	-2.61-3.87	-5.3-3.59	-3.18-4.66	-4.36-5.48	-5.78-6.14	-3.19-3.01	-2.54-3.95	-4.62-4.9	-5.8-7.14	-5.33-3.34	-3.19-2.3	-3.98-2.54	-1.9-2.62	-2.1-0.53	0.48-0.13	-0.61-2.48	-1.32-3.03	-0.61-2.48	-1.32-3.03	-3.55-3.24	-2.45-2.13		
195°	-5.82-5.56	-5.34-7.7	-5.45-1.67	-5.27-0.43	-4.96-4.1	-3.77-3.79	-4.92-4.12	-3.09-4.34	-4.89-4.14	-5.5-5.66	-6.24-7.35	-5.06-4.53	-4.24-1.78	-2.68-2.49	-0.68-1.6	-3.22-1.05	0.89-0.15	2.36-2.25	1.95-0.28	1.91-1.13	1.90-0.68	-2.07-2.32	-4.82-6.02	-4.87-5.21	
210°	-4.02-3.01	-3.85-4.38	-5.25-3.31	-2.22-2.03	-1.35-3.05	-4.91-5.27	-4.36-3.25	-3.3-3.31	-4.2-4.62	-7.3-6.28	-6.33-5.44	-3.83-3.38	-4.2-2.05	-2.81-1.34	-0.16-1.01	-3.48-0.44	0.66-0.43	0.99-1.43	1.42-3.46	2.49-0.2	-0.11-1.2	-1.04-1.9	-5.29-6.56	-3.99-2.86	
225°	-3.64-3.57	-4.13-3.78	-3.39-3.49	-3.09-2.74	-2.35-2.77	-4.98-2.78	-5.73-8.71	-8.82-1.79	-5.21-6.52	-6.39-6.26	-5.99-5.97	-4.88-1.33	-2.91-1.07	-3.16-5.29	-6.46-5.88	-9.26-0.58	-0.26-1.17	-0.37-0.13	0.32-1.13	-0.03-2.01	-1.3-0.23	-1.79-3.39	-0.86-0.55	-5.12-4.35	
240°	-7.94-8.11	-5.66-4.7	-3.63-3.48	-3.09-3.33	-4.11-3.52	-4.25-5.27	-7.04-7.73	-6.97-7.56	-7.65-7.1	-6.75-6.48	-6.62-6.08	-5.62-6.13	-4.00-3.62	-5.95-6.22	-6.25-7.06	-2.53-1.29	-2.83-1.87	-1.43-0.05	-0.33-2.11	-2.44-1.38	-1.97-3.48	-3.85-6.67	-8.81-7.78		
255°	-4.32-5.35	-4.94-4.33	-3.03-2.87	-3.87-6.11	-5.58-4.9	-5.23-6.52	-6.86-5.77	-6.77-5.97	-8.26-7.04	-6.39-7.61	-10.23-8.03	-7.52-10.12	-10.31-8.83	-7.51-4.79	-2.73-0.69	-0.66-1.77	-3.99-2.54	-2.37-1.76	-2.91-8.08	-1.97-0.34	-1.13-0.29	-0.68-2.26	-1.18-1.38	-2.61-4.35	
270°	-3.69-4.53	-7.15-5.63	-6.31-5.77	-6.24-6.48	-4.1-4.2	-5.01-7.09	-10.56-12.19	-8.8-7.73	-9.11-9.51	-8.14-7.58	-8.35-9.03	-8.51-6.79	-8.85-1.6	-5.27-4.19	-2.1-0.97	-0.26-1.32	-3.72-1.72	-1.98-1.57	-2.67-6.66	-4.69-2.16	-2.07-2.01	-1.95-2.12	-0.60-0.4	-1.13-1.02	
285°	-7.61-6.38	-6.26-7.59	-7.86-7.99	-8.18-7.06	-5.3-5.14	-5.54-6.62	-9.10-10.3	-9.52-7.32	-7.01-8.21	-9.07-9.01	-9.57-10.7	-10.41-9.18	-6.97-5.91	-4.72-3.1	-2.04-1.69	-1.58-2.14	-2.23-2.3	-1.87-0.1	-0.02-2.78	-6.17-2.29	-1.25-2.32	-4.59-6.1	-5.97-5.18	-4.8-5.83	
300°	-11.94-11.1	-11.46-10.5	-8.79-8.38	-6.71-6.06	-6.2-7.14	-8.31-8.48	-10.12-9.62	-8.46-7.17	-7.43-7.73	-8.59-9.63	-10.34-9.09	-7.4-6.94	-4.15-2.02	-1.14-1.11	-1.35-1.69	-1.71-1.43	-1.1-1.19	-0.55-0.01	-0.11-1.2	-5.51-7.03	-6.26-5.25	-4.92-5.63	-6.83-8.17	-10.18-11.52	
315°	-8.35-7.44	-5.93-5.51	-6.51-7.27	-7.72-7.88	-9.03-9.56	-9.25-9.3	-9.71-10.89	-10.74-10.44	-10.11-9.89	-10.06-9.64	-9.59-8.9	-7.89-6.97	-5.89-5.5	-5.32-5.38	-5.64-5.89	-5.54-7.8	-3.71-2.8	-1.84-1.15	-1.08-1.97	-3.33-4.99	-6.56-7.49	-8.02-9.02	-8.27-8.31	-8.16-8.66	
330°	-6.95-7.17	-7.75-7.5	-7.16-6.96	-6.98-6.98	-6.69-7	-7.81-8.93	-8.77-8.16	-6.11-6.14	-5.6-6.2	-7.3-8.03	-8.26-7.51	-6.96-6.26	-5.8-5.24	-4.44-4.71	-5.1-9.8	-4.52-3.99	-3.31-3.28	-3.34-3.66	-4.51-5.55	-6.6-7.31	-7.78-7.54	-7.32-7.1			
345°	-11.94-11.79	-11.52-10.38	-8.92-8.47	-7.97-8.2	-6.77-7.7	-7.4-5.58	-6.26-6.02	-5.46-5.3	-5.59-6.64	-7.98-8.3	-8.31-8.28	-6.81-6.97	-5.87-5.94	-4.71-6.34	-5.75-5.19	-4.51-4.14	-4.04-4.42	-4.89-5.23	-5.8-6.92	-6.84-9.81	-7.72-12.39				
6.475GHz Pol. Phi	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	
DG(dBi)	Phi(0°)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°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	
0°	-8.03-6.47	-5.56-4.94	-4.15-4.33	-4.41-4.72	-5.15-5.35	-5.57-5.54	-5.5-5.53	-5.97-5.85	-5.58-5.85	-5.84-5.9	-6.17-6.64	-7.26-7.4	-7.11-7.15	-6.76-5.91	-5.77-5.42	-5.18-5.25	-5.52-5.56	-5.62-5.58	-5.77-5.84	-5.95-5.62	-5.19-4.82	-5.06-5.73	-6.91-7.99	-8.14-8.2	
15°	-10.35-8.43	-7.63-6.25	-5.74-5.41	-6.4-7.4	-6.66-6.66	-4.89-5.06	-4.8-4.9	-5.15-5.03	-5.02-5.2	-5.68-5.92	-6.35-6.91	-7.16-6.89	-6.34-5.44	-4.97-4.47	-4.25-4.03	-4.17-1.48	-4.48-2.29	-6.11-6.93	-7.14-7.12	-6.15-5.09	-4.33-4.03	-3.99-0.41	-4.77-6.83	-9.21-9.53	
30°	-10.17-10.28	-8.79-8.44	-6.68-5.68	-5.54-4.86	-4.37-3.93	-3.72-3.67	-3.84-3.38	-4.96-5.13	-4.61-3.7	-3.28-3.58	-4.22-6.33	-6.09-5.68	-4.79-3.77	-3.34-3.25	-3.47-3.9	-4.41-9.1	-5.45-6.69	-6.45-7.09	-6.47-6.78	-5.94-2.4	-3.44-2.99	-2.87-2.67	-3.78-4.9	-8.95-10.14	
45°	-7.81-6.86	-6.24-6.13	-6.01-5.44	-4.43-3.24	-2.11-1.53	-1.31-1.53	-2.02-2.06	-2.28-2.88	-3.1-2.2	-2.29-2.82	-4.11-5.49	-6.													



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Appendix B

Theta (°)	-5.87-3.69	-2.61-1.86	-1.220-1.7	0.370-1.1	-0.61-2.18	-2.36-0.12	0.471-1.25	-2.41-2.03	-1.89-2.77	-4.13-6.38	-8.09-17.67	-6.84-8.32	-9.06-10.02	-9.46-11.57	-10.86-7.94	-5.55-4.59	-3.79-6.47	-1.24-1.04	-9.31-7.85	-5.11-3.56	-0.22-0.39	-1.15-0.63	-1.27-1.31	-6.06-6.7																							
Theta (135°)	-5.11-4.9	-3.5-2.85	-2.91-4.56	-3.75-1.57	-1.21-0.7	-1.11-2.25	-1.12-1.8	-3.95-2.78	-2.33-2.49	-4.49-6.32	-7.46-9.27	-10.45-11.09	-8.22-6.82	-9.68-11.53	-8.36-5.05	-4.26-3.6	-6.18-7.41	-2.97-0.1	-3.51-7.13	-3.64-3.19	-2.03-0.8	-1.92-1.63	-0.01-0.54	-2.51-5.26																							
Theta (142.5°)	-3.32-2.47	-2.45-3.03	-4.32-3.96	-4.34-4.57	-4.52-5.31	-5.92-3.6	-2.11-1.71	-2.07-3.05	-2.74-3.11	-4.36-6.68	-8.13-8.42	-6.31-6.33	-7.01-6.33	-6.62-7.98	-6.63-4.62	-1.29-2.24	-4.84-1.47	0.481-3.6	-1.01-2.66	-3.87-3.08	-3.73-3.08	-3.28-5.54	-2.76-1.24	-2.27-4.26																							
Theta (150°)	-6.47-6.39	-6.14-5.01	-4.1-3.87	-4.01-4.44	-4.34-4.06	-3.67-3.77	-3.72-0.41	-4.46-4.82	-4.81-8.42	-4.82-5.77	-6.51-6.54	-7.64-7.58	-5.79-4.98	-4.04-3.25	-2.73-3.2	-4.95-6.5	-4.02-3.28	-0.77-0.33	-1.73-3	-4.09-5.75	-9.54-9.7	-9.88-7.65	-5.06-3.47	-3.34-9.8																							
Theta (157.5°)	-8.05-7.52	-7.61-7.84	-7.48-6.78	-7.08-7.51	-7.2-6.15	-4.14-3.35	-3.82-4.66	-5.14-5.01	-5.36-5.76	-7.52-8.41	-8.93-8.47	-8.84-8.76	-6.84-4.24	-8.22-3.24	-4.02-4.78	-6.99-8.33	-6.31-4.85	-2.88-1.34	-1.32-1.88	-3.11-4.86	-7.23-6.61	-5.76-5.12	-5.46-1.18	-7.03-7.5																							
Theta (165°)	-4.59-4.95	-5.28-5.49	-6.07-5.62	-5.59-6.42	-6.83-6.6	-7.36-8.57	-9.59-9.76	-9.53-10.1	-10.47-9.89	-9.59-9.08	-8.99-8.26	-7.31-6.76	-5.91-5.03	-5.02-4.87	-4.13-3.14	-2.47-2.6	-2.12-2.36	-2.12-2.36	-1.81-3.56	-6.99-5.34	-8.11-6.86	-5.99-5.33	-4.34-2.25																								
Theta (172.5°)	-9.47-9.73	-10.51-10.35	-9.38-8.88	-9.23-10.31	-11.54-12.44	-11.84-10.88	-10.01-9.36	-8.65-7.69	-6.71-6.35	-6.46-7.2	-8.84-9.75	-11.09-10.67	-11.47-11.19	-9.23-8.72	-4.99-3.71	-3.13-2.99	-2.61-2.03	-1.58-1.56	-1.94-2.64	-3.57-4.28	-4.97-5.43	-6.07-6.51	-6.52-7.23	-8.11-9.47																							
Theta (180°)	-9.25-8.4	-7.34-6.27	-5.72-5.9	-5.81-6.05	-6.32-6.84	-4.96-6.75	-6.78-6.84	-6.85-6.7	-6.63-6.49	-7.51-8.84	-9.83-10.51	-10.56-9.36	-8.43-8.33	-7.74-6.98	-6.25-5.44	-5.16-5.18	-5.05-5.02	-4.89-4.94	-4.8-5.11	-5.49-5.74	-5.96-6.46	-6.85-7.91	-8.97-10.01	-10.29-9.78																							
Phi (°)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																							
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°)
Phi (0°)	-7.19-7.56	-8.75-10.66	-10.1-10.4	-9.88-9.24	-8.11-7.21	-6.49-6.06	-5.67-5.08	-4.52-4.39	-4.15-4.05	-4.2-4.53	-5.06-5.28	-5.85-5.64	-7.39-8.58	-9.19-9.49	-9.79-10.03	-9.52-8.47	-7.37-6.27	-5.64-5.05	-4.53-3.88	-3.51-3.52	-3.95-4.16	-4.66-4.77	-4.86-5.04	-5.85-6.66																							
Phi (7.5°)	-8.37-8.1	-8.37-8.6	-6.62-6.32	-5.48-4.84	-4.57-4.44	-4.82-5.29	-5.34-5.14	-4.84-4.19	-3.71-3.57	-3.54-3.76	-4.08-4.78	-5.31-6	-6.95-9.05	-7.94-8.05	-7.43-7.11	-6.77-6.53	-6.07-5.34	-4.88-4.49	-4.65-5.11	-5.72-5.75	-6.06-6.89	-6.77-8.2																									
Phi (15°)	-7.4-6.4	-6.02-6.09	-5.07-4.1	-3.19-3.13	-3.17-3.14	-3.78-4.53	-5.21-5.04	-5.01-4.7	-4.02-3.94	-4.08-4.62	-5.44-5.63	-5.66-5.88	-5.72-5.61	-5.14-4.69	-4.32-4.1	-3.96-4.27	-4.76-5.42	-6.41-7.37	-7.31-7.12	-6.47-5.76	-6.32-6.43	-6.43-6.67	-7.71-8.35	-8.76-9.73																							
Phi (22.5°)	-6.85-5.3	-5.33-5.46	-6.19-5.7	-5.04-3.83	-3.41-3.41	-3.41-2.88	-2.79-3.3	-4.33-4.97	-5.18-4.61	-4.71-3.83	-3.25-3.57	-3.61-3.46	-3.72-3.97	-4.18-4.65	-5.54-5.67	-7.61-67	-6.08-6.36	-6.16-6.33	-6.42-6.74	-6.81-6.72	-7.06-6.98	-6.16-6.24	-7.19-7.46																								
Phi (30°)	-6.11-4.99	-3.99-3.42	-2.99-2.01	-1.78-1.87	-2.81-3.43	-3.98-4.38	-4.83-5.02	-4.33-3.75	-3.23-2.89	-2.32-1.17	-1.12-2.16	-2.39-2.08	-3.04-4.41	-6.39-7.69	-7.71-9.67	-9.21-8.8	-7.28-6.08	-6.04-6.68	-6.11-6.23	-6.29-8.56	-9.28-10.54	-8.15-6.65	-7.39-7.86	-8.65-9.95																							
Phi (37.5°)	-2.45-1.16	-0.64-1.08	-1.72-1.79	-1.75-1.97	-1.81-2.27	-3.71-4.51	-4.73-3.96	-2.64-1.47	-0.72-0.11	-0.21-0.24	-1.95-2.99	-3.82-5.17	-5.39-6.23	-7.68-7.95	-7.61-7.01	-7.01-10.36	-9.33-7.03	-5.01-7.69	-9.71-10.85	-11.53-9.96	-7.61-7.87	-7.73-7.2	-6.29-4.69	-4.25-3.6																							
Phi (45°)	-1.83-1.62	-2.08-1.21	-1.12-2.25	-2.21-1.26	-0.98-1.35	-1.98-2.3	-2.88-2.71	-2.57-1.51	-0.74-0.97	-1.01-1.14	-3.53-3.79	-3.67-6.33	-3.98-4.7	-6.69-7.0	-4.86-3.76	-6.98-6.39	-6.84-9.33	-9.04-7.49	-5.16-3.58	-6.35-7.82	-9.99-8.6	-5.71-3.32	-3.09-3.21																								
Phi (52.5°)	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88	-2.76-2.47	-3.11-1.88	-3.11-1.88																							
Phi (60°)	-1.57-1.03	-0.97-0.82	-2.47-2.2	-1.07-0.88	1.822-0.3	2.231-0.1	0.29-0.08	-0.69-0.25	-0.27-0.27	-1.44-0.81	-1.29-2.43	-3.71-2.71	-2.28-3.95	-7.61-7.06	-5.07-5.47	-6.02-11.92	-12.23-9.28	-8.21-6.77	-10.63-9.28	-7.06-4.99	-4.29-5.83	-5.09-3.93	-3.41-2.89	-2.46-3.04																							
Phi (67.5°)	-2.06-5.06	-0.48-0.05	-0.35-0.9	-1.42-0.9	0.131-66	1.390-53	0.09-0.69	-1.63-1.44	0.06-0.55	-1.24-0.48	-1.45-2.7	-4.78-7.43	-3.69-4.47	-4.52-8.42	-6.17-5.76	-9.81-8.5	-9.81-9.97	-8.05-8.22	-8.51-9.7	-1.98-9.46	-11.02-11.16	-10.03-7.08	-6.35-11.4	-3.58-2.70																							
Phi (75°)	-2.19-1.77	-0.59-0.84	-0.94-1.27	-3.28-3.57	-1.59-2.05	0.691-0.4	0.19-0.4	-1.02-0.55	-0.76-0.42	-0.28-1.4	-3.21-2.3	-4.62-5.61	-6.99-8.29	-9.72-7.61	-5.36-5.29	-11.79-10.42	-11.70-10.42	-6.91-11.36	-9.35-5.6	-5.54-6.3	-4.94-5.81	-3.94-4.24	-3.74-2.46																								
Phi (82.5°)	-1.02-1.13	-0.64-0.59	0.13-0.71	-1.79-0.9	-0.48-0.01	0.140-31	-0.27-0.15	-0.59-0.41	0.92-0.11	-0.86-1.36	-2.08-2.67	-3.18-2.69	-4.38-5.08	-4.25-8.17	-6.75-9.37	-6.88-7.58	-7.53-9.5	-5.72-11.51	-7.06-8.69	-9.99-5.86	-6.91-7.87	-6.93-6.95	-6.09-4.23	-2.95-2.18																							
Phi (90°)	-1.81-6.23	-1.05-1.83	-0.20-0.7	-1.82-2.61	-2.42-1.17	0.06-0.23	-0.04-0.01	-1.34-1.02	-0.38-1.29	-1.46-0.37	-0.27-2.57	-3.57-4.7	-4.65-3.82	-3.52-6.3	-8.35-7.21	-6.77-6.53	-9.39-7.71	-3.49-11.78	-9.91-9.7	-6.97-6.09	-4.98-6.12	-5.14-2.88	-3.27-3.98	-3.53-3.71																							
Phi (97.5°)	-3.31-3.53	-2.04-0.94	0.36-0.1	-0.91-1.21	-2.41-2.39	-0.69-0.68	-0.12-0.18	-1.44-1.02	-1.35-1.42	-0.71-1.05	-0.29-2.46	-4.04-5.7	-5.72-5.89	-6.84-7.86	-7.58-6.34	-4.84-6.24	-1.86-7.51	-10.54-11.3	-4.48-5.06	-7.02-8.5	-7.85-3.99	-3.37-4.61	-3.53-4.01																								
Phi (105°)	-2.53-3.09	-1.71-1.93	-0.29-0.31	-0.45-0.34	0.23-2.29	-3.51-2.08	-0.21-0.44	-0.59-3.49	-2.24-1.3	-2.1-3.21	-2.58-3.34	-4.25-5.13	-6.31-6.29	-8.37-8.07	-6.09-5.29	-6.51-8.53	-7.56-7.75	-4.05-4.23	-11.44-10.43	-5.19-6.5	-5.95-5.23	-4.84-4.63	-3.61-4.63	-3.39-4																							
Phi (112.5°)	-3.29-1.26	-1.02-0.39	-0.59-1.93	-2.94-2.92	-1.49-2.5	-2.83-1.72	-0.8-0.49	-0.77-2.27	-2.38-2.27	-2.57-2.71	-3.31-3.69	-3.65-5.31	-3.58-7.73	-8.46-7.46	-6.46-6.73	-7.85-6.24	-4.46-6.18	-2.09-3.46	-8.08-9.62	-6.57-6.41	-5.93-4.02	-2.97-3.28	-2.38-2.63																								
Phi (120°)	-1.71-1.63	-1.26-0.78	-0.81-1.24	-3.66-4.33	-2.87-2.45	-2.83-3.23	-2.12	-2.77-4.23	-4.51-5	-4.64-4.42	-4.38-5.64	-6.31-7.04	-6.37-7.08	-6.81-6.41	-6.96-7.54	-5.77-3.98	-3.37-3.26	-8.92-11.88	-4.86-5.56	-2.97-4.7	-4.41-1.78	-1.44-1.78	-0.95-1.29																								
Phi (127.5°)	-2.11-2.47	-3.34-2.82	-2.03-2.21	-1.96-3.88	-5.89-4.9	-4.42-3.78	-3.78-2.97	-2.54-1.71	-1.63-2.14	-2.71-4.89	-6.24-6.93	-6.69-6.97	-6.37-7.51	-7.29-8.91	-9.08-7.96	-7.37-5.6	-3.14-6.09	-4.93-2.96	-7.18-8.95	-6.49-4.47	-2.43-5.81	-4.56-3.29	-2.76-2.72	-1.84-1.73																							
Phi (135°)	-3.29-3.17	-2.43-2.27	-2.91-5.2	-1.72-1.96	-3.71-5.96	-6.05-3.96	-5.73-5.52	-2.73-1.52	-1.85-1.83	-3.28-5.9	-7.26-7.69	-8.73-9.03	-7.51-6.49	-5.05-6.22	-6.27-6.81	-8.22-7.64	-3.35-6.78	-5.58-5.79	-5.56-5.72	-8.21-7.18	-6.33-4.91	-4.17-3.27	-3.71-3.08	-2.64-2.63																							
Phi (142.5°)	-4.27-5.04	-4.91-3.1	-1.38-1.38	-2.14-2.56	-3.97-5.17	-3.91-2.9	-1.86-1.04	-1.43-3	-4.76-4.63	-4.71-9.7	-5.45-7.4	-10.98-9.38	-8.52-9.95	-6.52-6.64	-6.94-6.57	-6.67-7.33	-5.15-8.87	-6.87-7.09	-5.65-5.79	-3.41-3.35	-3.67-3.03	-4.47-4.58	-3.82-4.11																								
Phi (150°)	-2.78-1.98	-0.94-0.82	-1.38-2.21	-3.51-4.39	-6.65-6.8	-4.68-5.89	-6.58	-5.56-5.69	-5.21-4.62	-4.06-4.37	-4.53-6.11	-8.21-9.42	-8.88-7.68	-9.19-9.47	-9.06-8.71	-8.21-7.58	-10.54-6.89	-5.73-5.81	-8.37-6.33	-6.44-7.93	-6.76-6.01	-5.87-5.66	-5.11-3.99	-3.22-3.14																							
Phi (157.5°)	-1.61-1.12	-1.24-1.71	-2.37-3.54	-5.99-8.21	-10.41-11.51	-8.88-9.12	-7.84-7.49	-7.85-8.8	-7.42-6.71	-7.24-6.57	-8.07-6.51	-5.18-4.49	-5.48-7.9	-7.81-7.48	-7.91-7.33	-8.13-9.39	-8.96-6.68	-9.34-10.94	-8.58-6.9	-8.14-11.32	-10.69-9.13	-6.04-4.21	-3.13-2.21	-1.91-6.9																							
Phi (165°)	-4.86-5.45	-5.94-6.09	-6.88-7.64	-9.32-10.77	-11.47-11.69	-10.77-11.1	-9.76-9.13	-9.31-8.93	-7.53-6.19	-5.13-4.82	-4.56-4.23	-3.55-3.54	-4.11-4.68	-4.52-3.5	-2.65-2.72	-3.41-6.																															