



Radiated Composite Gain of 6GHz UNII 7 and UNII 8

Appendix C

Θ(75°)	-12.03/-16.82	-12.22/-12.66	-18.18/-13.73	-18.17/-18.17	-16.67/-18.47	-18.72/-16.39	-17.86/-9.9	-8.51/-18.52	-19.33/-8.98	-19.01/-16.06	-14.83/-13.82	-18.55/-18.4	-17.93/-15.8	-16.55/-13.33	-16.42/-13.34	-13.31/-13.69	-13.08/-14.01	-10.45/-13.37	-16.02/-16.75	-13.87/-19.01	-12.33/-13.7	-16.94/-17.65	-17.61/-15.27	-17.37/-9.16
Θ(82.5°)	-11.65/-16.82	-11.11/-17.83	-15.52/-17.73	-18.77/-16.91	-12.92/-17.48	-19/-18.58	-17.59/-10.29	-10.04/-13.7	-16.22/-14.28	-16.69/-15.7	-17.22/-15.08	-14.6/-17.02	-17.9/-13.05	-16.38/-14.75	-18.07/-17.42	-8.49/-11.37	-17.71/-14.1	-14.16/-15.14	-18.47/-14.26	-16.75/-14.91	-12.82/-11.85	-12.63/-10.41	-18.19/-18.56	-15.02/-12.28
Θ(90°)	-7.9/-13.92	-19.62/-18.01	-11.62/-19.37	-18.11/-15.51	-16.45/-13.52	-16.89/-18.07	-17.6/-10.07	-12.36/-16.45	-18.64/-11.24	-11.41/-12.1	-18.11/-17.35	-12.6/-16.51	-12.14/-18.26	-10.54/-17.68	-18.41/-18.95	-13.53/-14.75	-16.35/-18.28	-12.41/-17.17	-19.16/-10.24	-13.93/-13.56	-10.77/-10.52	-17.25/-13.02	-19.03/-13.48	
Θ(97.5°)	-8.78/-14.9	-14.87/-19.01	-11.43/-14.23	-17.98/-16.02	-15.68/-9.83	-15.13/-14.88	-11.17/-11.94	-8/-13.74	-18.39/-15.94	-16.27/-16.15	-18.43/-18.38	-19.41/-13.05	-18.85/-18.38	-13.51/-10.07	-18.97/-15.11	-14.04/-18.29	-16.07/-13.42	-18.64/-18.15	-15.88/-17.95	-13.95/-12.16	-18.59/-12.24	-9.51/-9.36	-15.78/-17.69	-10.59/-13.6
Θ(105°)	-13.56/-14.68	-18.66/-15.62	-10.09/-11.61	-16.98/-17.99	-17.52/-18.64	-14.94/-14.51	-14.61/-18.31	-16.88/-11.94	-19.26/-16.3	-18.53/-17.87	-10.32/-15.62	-19.05/-12.15	-19.33/-17.98	-13.97/-19.4	-9.45/-18.3	-18.72/-17.42	-16/-16.58	-10.69/-11.17	-19.15/-16.31	-14.43/-9.98	-14.52/-18.36	-9.91/-8.34	-15.82/-14.23	-17.81/-15.9
Θ(112.5°)	-11.13/-19.1	-18.39/-18.85	-7.83/-8.97	-18.74/-18.66	-18.18/-19.81	-14.48/-17.04	-18.38/-18.92	-12.06/-18.29	-17.33/-18.29	-15.18/-16.15	-12.63/-17.9	-13.14/-12.08	-18.28/-18.44	-17.85/-18.79	-15.92/-15.08	-10.24/-10.09	-11.57/-11.5	-11.68/-14.7	-18.34/-15.38	-12.58/-10.98	-14.52/-17.16	-14.5/-15.1	-17.9/-17	-17.88/-16.16
Θ(120°)	-15.28/-17.48	-17.98/-17.74	-8.71/-7.25	-12.36/-13.61	-19.67/-11.85	-12.58/-11.03	-12.31/-10.79	-17.85/-17.27	-12.23/-15.32	-10.64/-16.61	-12.45/-9.09	-16.51/-12.57	-18.53/-14.79	-13.5/-12.01	-18.01/-11.57	-7.69/-18.54	-11.89/-10.14	-9.16/-18.8	-18.94/-16.43	-16.89/-9.89	-15.57/-8.6	-7.72/-13.78	-16.52/-13.65	-18.87/-15.22
Θ(127.5°)	-12.68/-18.03	-15.59/-15.63	-11.53/-7.5	-14.5/-13.7	-17.99/-8.78	-13.11/-18.56	-13.15/-11.73	-18.57/-17.95	-13.12/-11.08	-8.48/-12.99	-17.89/-19.07	-11.01/-16.57	-14.11/-11.69	-18.75/-12.21	-18.53/-13.26	-11.64/-15.41	-13/-19.02	-13.57/-16.57	-18.01/-17.81	-9.69/-9.25	-10.29/-18.37	-11.78/-14.2	-16.89/-18.46	-11.58/-17.98
Θ(135°)	-16.37/-15.51	-10.32/-16.24	-13.88/-14.44	-15.8/-18.29	-16.08/-13.89	-11.05/-18.08	-19.15/-14.81	-18.8/-13.23	-19.08/-13.52	-18.53/-18.81	-10.09/-11.42	-17.18/-17.73	-6.68/-18.74	-17.57/-18.86	-18.22/-19.1	-11.89/-10.42	-8.97/-18.63	-18.35/-15.02	-18.25/-12.48	-9.88/-8.57	-9.58/-18.04	-15.57/-11.13	-10.69/-15.21	-11.18/-16.88
Θ(142.5°)	-15.93/-18.12	-18.35/-18.12	-14.91/-16.85	-16.56/-18.53	-14.82/-16.39	-18.57/-13.59	-16.57/-19.29	-12/-17.24	-11.9/-13.9	-15.64/-18.17	-14.57/-18.14	-18/-17.8	-18.42/-18.61	-17.51/-17.47	-17.36/-18.5	-14.97/-18.13	-14.03/-17.73	-13.93/-11.05	-13.01/-19.46	-13.39/-12.83	-11.32/-18.24	-18.69/-15.8	-12.55/-10.72	-13.88/-14.47
Θ(150°)	-10.41/-18.09	-18.51/-18.97	-17.72/-17.88	-18.43/-15.37	-18.28/-16.49	-19.4/-17.89	-17.93/-17.65	-17.81/-11.4	-13.46/-18.7	-16.74/-18.94	-18.92/-19.07	-18.37/-19.12	-17.78/-18.25	-11.98/-13.09	-18.01/-18.81	-18.12/-18.78	-17.86/-17.94	-12.31/-7.4	-8.41/-10.47	-15.29/-16.44	-17.57/-9.51	-7.78/-9.06	-12.01/-16.36	-17.94/-12.65
Θ(157.5°)	-18.48/-13.11	-13.53/-18.52	-12.84/-16.5	-15.04/-18.99	-17.3/-14.64	-14.1/-17.54	-13.41/-11.39	-15.95/-19.24	-16.8/-19.1	-16.78/-18.26	-19.19/-18.55	-11.76/-11.8	-10.76/-14.21	-11.92/-18.45	-19.22/-18.14	-18.07/-17.39	-17.76/-16.98	-17.12/-16.51	-18.83/-15.37	-13.63/-11.84	-11.43/-9.49	-8.13/-8.75	-11.34/-17.41	-17.7/-18.98
Θ(165°)	-18.48/-16.22	-18.37/-14.19	-12.55/-14.4	-18.83/-18.64	-12.03/-9.51	-14.26/-18.41	-18.58/-16.55	-18.73/-15.42	-11.57/-12.4	-17.67/-19.07	-19.33/-18.44	-19.42/-17.15	-16.81/-15.42	-19.28/-17.06	-17.77/-14.41	-14.53/-15.46	-16.58/-16.2	-17.05/-14.98	-12.57/-10.46	-9.19/-8.67	-7.43/-6.74	-5.9/-6.97	-7.83/-9.64	-17.07/-18.58
Θ(172.5°)	-19.29/-18.52	-17.27/-17.76	-18.52/-17.72	-17.45/-16.37	-17.57/-19.12	-18.09/-16.98	-18.9/-17.26	-18.09/-18.33	-19.08/-17.22	-18.64/-16.68	-15.87/-18.11	-16.51/-13.74	-15.21/-13.94	-18.37/-18.06	-15.79/-13.69	-11.04/-10.46	-9.44/-10.11	-9.93/-9.22	-9.09/-8.66	-9.45/-5.55	-9.84/-10.16	-11.65/-12.72	-16.1/-17.75	-16.89/-19.06
Θ(180°)	-18.27/-18.62	-16.6/-14.38	-14.51/-18.64	-15.97/-14.01	-19.55/-18.59	-18.09/-18.02	-18.43/-15.49	-12.09/-10.65	-8.53/-8.55	-10.05/-13.88	-13.95/-13.41	-16.82/-17.64	-18.66/-18.58	-18.29/-18.87	-17.43/-18.08	-18.16/-16.06	-13.94/-14.35	-11.47/-11.71	-11.42/-11.84	-13.71/-13.89	-16.02/-18.13	-18.67/-17.35	-17.72/-19.1	
Freq(Hz)	6.995GPol.	Theta/Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-13.98/-12.16	-11.88/-14.01	-11.62/-13.15	-13.42/-16.54	-17.47/-18.63	-18.07/-18.53	-18.57/-17.75	-17.3/-14.59	-12.47/-10.87	-12.96/-11.25	-12.91/-11.33	-9.98/-11.44	-10.96/-11.09	-11.54/-11.23	-12.39/-13.82	-12.71/-14.17	-12.44/-11.23	-16.8/-18.38	-17.44/-17.66	-17.22/-16.71	-16.42/-15.86	-17.2/-13.97	-14.27/-14.44	
Θ(7.5°)	-13.95/-11.14	-9.88/-11.39	-10.54/-9.83	-10.06/-10.78	-13.05/-17.79	-16.02/-17.98	-18.56/-18.37	-17.77/-19.05	-16.58/-13.6	-10.93/-10.52	-9.85/-10.11	-10.54/-9.31	-10.12/-10.1	-10.47/-10.93	-10.87/-11.73	-11.43/-12.51	-13.85/-17.76	-17.81/-18.5	-18.14/-18.6	-16.49/-13.65	-12.83/-13.09	-12.93/-13.21	-13.36/-14.06	-12.23/-13
Θ(15°)	-6.97/-6.76	-6.65/-7.8	-11.23/-13.92	-16.09/-17.99	-18.83/-17.13	-16.36/-14.78	-14.15/-12.08	-11.97/-10.06	-8.73/-6.7	-6.38/-9.63	-8.91/-17.1	-7.71/-8.62	-6.62/-11.17	-10.17/-9.3	-7.73/-6.6	-6.5/-8.28	-10.16/-16.91	-14.81/-15.23	-15.8/-19.09	-17.7/-18.6	-15.04/-12.82	-14.11/-13.58	-17.11/-10.52	-9.38/-7
Θ(22.5°)	-5.21/-4.87	-5.94/-5.93	-6.24/-6.95	-10.47/-19.27	-6.32/-9.92	-8.13/-6.85	-8.14/-13.33	-18.77/-14.17	-8.51/-6.35	-6.05/-12.23	-19.19/-17.5	-15.85/-13.73	-10.79/-12.09	-8.0/-10.2	-10.17/-10	-9.43/-12.83	-11.94/-13.68	-6.91/-13.77	-11.05/-8.3	-7.48/-7	-7.85/-10.78	-12.15/-10.99	-6.95/-5.33	
Θ(30°)	-5.03/-5.53	-4.25/-4.38	-5.21/-6.81	-7.29/-4.8	-4.17/-6.3	-7.34/-5.67	-9.74/-13.32	-10/-4.34	-5.02/-7.21	-5.56/-6.65	-8.94/-8.01	-5.92/-7.63	-6.57/-7.06	-7.05/-8.12	-6.18/-8.2	-11.87/-8.83	-18.27/-9.85	-9.89/-13.12	-7.83/-9.31	-10.21/-8.79	-8.29/-7.93	-4.62/-2.57	-3.25/-4.94	-4.52/-4.7
Θ(37.5°)	-7.92/-6.59	-3.99/-3.74	-2.08/-2.2	-7.02/-6.58	-6.14/-6	-3.46/-6.55	-6.64/-6.15	-4.31/-3.53	-5.45/-5.34	-5.97/-5.15	-3.54/-2.87	-2.42/-3.42	-1.88/-1.61	-3.56/-3.26	-1.8/-0.86	-3.07/-3.71	-9.55/-12.11	-7.37/-3.98	-7.45/-5.38	-3.54/-5.84	-9.09/-9.3	-9.84/-1.92	-0.86/-3.95	-3.78/-4.14
Θ(45°)	-5.47/-5.26	-4.76/-0.35	-2.45/-1.93	-3.22/-3.8	-1.5/-1.12	-1.76/-6.08	-1.25/-0.34	-1.48/-3.21	-5.45/-6.63	-4.97/-5.67	-3.39/-3.64	-3.61/-2.53	-2.83/-7.51	-2.79/-2.68	-4.82/-4.39	-4.73/-3.74	-1.45/-3.1	-4.04/-2.65	-1.95/-6.82	-7.99/-9.87	-6.39/-2.18	-2.85/-1.79	-2.85/-4.77	
Θ(52.5°)	0.720.31	-2.11/-1.39	0.55/-3.3	-0.99/-5.19	0.01/-0.22	-4.02/-2.34	-1.82/-1.23	-2.28/-1.34	-2.4/-2.78	-4.08/-5.49	-4.52/-4.08	-2.06/-3.42	-6.57/-5.8	-2.09/-4.05	-6.32/-7.5	-6.58/-4.53	-3.69/-6.38	-1.35/-2.63	-3.7/-0.73	0.45/-2.54	-6.79/-4.18	-2.56/-3.26	-0.030.4	-0.15/-0.7
Θ(60°)	-0.56/-0.17	-0.08/-1.04	-1.290.71	-0.53/-3.97	-2.88/-0.15	-3.31/-0.06	-1.58/-3.87	-0.85/-5.14	-2.310.6	-0.9/-3.25	-1.61/-2.82	-1.250.14	-3.73/-2.06	-2.92/-1.81	0.63/-5.34	-15.24/-16.66	-5.6/-11.83	-3.58/-0.77	-4.640.83	-0.89/-3.01	-3/-1.62	-2.79/-1.97	0.11.24	-2.19/-0.6
Θ(67.5°)	-6.47/-1.55	-1.03/-4.02	-0.040.33	-3.54/-4.04	-2.13/-3.75	-1.02/-0.4	-1.10/-8.9	-3.42/-3.66	-2.930.33	-1.152.16	-1/-4.72	-0.37/-0.86	-1.91/-7.73	2.13/-1.68	-0.97/-1.71	-4/-4.89	-3.46/-5	-10.2/-2.32	-2.18/-0.57	-1.78/-1.37	-3.69/-0.43	0.69/-1.3	0.11.05	-1.05/-9.57
Θ(75°)	4.60	-4.310.46	-4.91/-1.28	-3.28/-1.82	-3.62/-1.02	0.44/-0.39	0.58/-2.28	1.19/-7.07	-1.96/-4.67	0.66/-1.72	-2.03/-7.92	-1.88/-0.95	-4.1/-0.97	3.11/-1.1	-8.51/-0.06	-4.79/-2.06	-4.9/-2.03	-2.47/-3.36	-5.94/-1.1	-6.14/-3.51	-1.95/-0.71	0.89/-3.47	-6.46/-1.04	-2.03/-3.27
Θ(82.5°)	-4.99/-4.51	-1.8/-0.55	1.440.3	-0.97/-0.28	-2.19/-2.56	-2.13/-1.23	-2/-4.65	1.42/-6.35	-2.68/-10.87	-1.54/-2.98	-3.88/-1.77	-3.61/-5.28	-8.37/-6.05	0.39/-5.38	-6.54/-8.55	-3.87/-5.68	-6.050.13	0.120.34	-0.190.1	-4.78/-3.91	-2.420.55	0.39/-4.54	-0.26/-6.09	-3.03/-2.98
Θ(90°)	-1.61/-2.13	0.880.39	-0.63/-1.41	-0.3/-0.51	-2.07/-1.64	-2.59/-2.06	-3.29/-2.96	0.37/-0.81	-6.13/-4.24	-3.36/-7.28	-5.86/-14.28	-4.66/-4.07	-11.91/-18.61	-7.89/-6.64	-8.13/-10.17	-3.1/-1.82	-9.56/-1.57	-1.86/-0.16	-0.36/-0.62	0.93/-2.91	-3.73/-2.9	2.03/-6.1	0.68/-0.6	-3.02/-2.37
Θ(97.5°)	-1.370.15	-2.17/-3.72	-0.26/-0.84	-2.29/-0.36	0.38/-0.1	-2.620.38	-2.2/-0.02	0.42/-65	-3.88/-3.11	-3.27/-1.07	-4.55/-4.28	-5.93/-3.5	-16.28/-17.4	-9.42/-10.82	-11.72/-7.53	-2.95/-11.2	-12.76/-0.2	-2.63/-3.27	-7.76/-2.92	-0.17/-1.52	-3.19/-2.33	2.1/-7.7	-7.32/-1.99	-0.2/-2.81
Θ(105°)	-5.03/-0.1	-2.82/-4.58	-3.75/-3.04	-2.6/-5.98	-0.89/-0.8	-2.51/-0.6	-0.610.09	2.73/-1.41	-4.57/-5.32	-0.93/-1.66	-3.39/-4.09	-8.66/-4.5	-8.34/-16.92	-16.31/-10.29	-16.74/-4.2	-15.65/-8.07	-9.93/-2.03	-1.68/-4.41	-15.3/-6.47	-3.93/-0.48	-4.33/-3.64	0.78/-2.62	-10.1/-5.05	-0.86/-0.23
Θ(112.5°)	-8.05/-1.38	-1.81/-0.77	-5.12/-2.69	-4.43/-4.34	-6.58/-5.02	-2.23/-1.17	-4.880.63	-0.33/-1.86	-4.6/-3.89	-0.92/-7.91	-7.08/-10.26	-7.85/-9.68	-12.31/-16.58	-7.52/-10.49	-3.03/-4.58	-8.74/-2.66	-1.02/-3.7	-12.81/-10.05	-3.17/-1.41	-5.79/-2.37	-1.21/-3.26	-1.65/-6.22	-1.510.87	-1.510.87
Θ(120°)	-4.37/-3.07	-1.07/-0.13	-5.84/-5.68	-6.1/-5.34	-7.93/-2.96	-5.84/-2.45	-5.45/-6.26	-2.79/-2.74	-1.73/-4.25	-4.67/-14.02	-12.56/-5.8	-5.07/-5.78	-4.38/-											



Radiated Composite Gain of 6GHz UNII 7 and UNII 8

Appendix C

Θ(127.5°)	-13.64/-11.8	-12.65/-16.19	-13.79/-15.39	-10.41/-18.08	-17.43/-16.42	-17.45/-17.11	-17.91/-13.26	-18.79/-18.17	-13.22/-18.74	-18.71/-15.08	-15.8/-8.2	-14.9/-13.84	-11.18/-18.81	-10.68/-13.26	-9.8/-12.63	-18.77/-14.09	-15.74/-16.14	-18.6/-17.95	-16.67/-18.33	-10.76/-13.28	-15.71/-16.91	-11.52/-13.52	-10.63/-10.15	-12.74/-13.84
Θ(135°)	-10.56/-17.88	-11.51/-12.08	-18.68/-18.99	-18.59/-19.64	-18.43/-19.71	-14.65/-11.54	-16.4/-18.58	-18.09/-17.22	-18.13/-17.45	-15.48/-18.57	-19.27/-18.05	-17.85/-9.78	-11.93/-18.59	-15.02/-16.84	-17.63/-14.2	-14.38/-18.79	-14.93/-17.86	-18.49/-16.95	-19.21/-10.09	-6.93/-7.18	-11.02/-17.42	-10.54/-8.14	-9.78/-15.03	-18.04/-12.74
Θ(142.5°)	-18.61/-17.77	-17.55/-10.04	-18.38/-17.09	-13.4/-18.94	-17.99/-18.68	-12.92/-11.82	-13.06/-19.5	-18.87/-18.04	-18.38/-18.22	-15.74/-18.26	-13.56/-10.1	-18.89/-14.69	-15.7/-11.96	-11.98/-18.22	-10.91/-14.06	-10.91/-14.06	-13.83/-18.9	-18.68/-19.01	-18.62/-14.29	-9.82/-8.74	-9.91/-16.31	-15.47/-12.67	-18.45/-15	-11.48/-11.7
Θ(150°)	-14.49/-18.46	-18.52/-8.74	-8.93/-8.78	-10.98/-13.14	-10.77/-12.31	-14.16/-18.37	-17.53/-12.69	-8.61/-13.68	-15.61/-12.32	-18.13/-17.34	-18.32/-19.37	-17.99/-18.36	-19.11/-17.76	-14.53/-14.5	-18.18/-18.89	-11.76/-16.08	-18.66/-12.2	-16.58/-18.44	-18.61/-12.41	-12.48/-12.13	-9.99/-10.78	-9.42/-9.43	-8.98/-15.71	-11.63/-15.39
Θ(157.5°)	-13.84/-16.83	-18.61/-16.54	-9.62/-10.79	-8.05/-11.34	-17.47/-13.51	-14.08/-12.98	-11.23/-10.62	-11.88/-16.92	-18.87/-17.78	-13.02/-17	-18.75/-19.33	-15.79/-16.14	-17.39/-13.32	-12.24/-13.7	-16.25/-16.59	-14.55/-12.85	-18.48/-19	-17.18/-18.68	-17.87/-13.01	-9.86/-9.1	-8.89/-6.69	-9.25/-8.51	-10.86/-13.16	-15.7/-12.16
Θ(165°)	-15.45/-15.42	-12.45/-17.47	-16.97/-13.86	-11.24/-13.14	-13.51/-11.76	-13.11/-12.8	-12.61/-12.56	-14.26/-18.06	-18.12/-17.76	-17.67/-17.46	-18.23/-15.4	-13.7/-12.23	-13.1/-11.34	-9.48/-10.92	-11.39/-16	-17.57/-17.18	-17.39/-14.88	-14.35/-14.36	-16.45/-13.5	-12.62/-11.7	-14.28/-17.35	-18.41/-17.73	-19.56/-18.84	-18.47/-16.68
Θ(172.5°)	-14.86/-19.3	-18.91/-18.27	-18.52/-13.52	-17.88/-19.2	-18.86/-16.17	-14.18/-13.96	-14.83/-17.34	-18.69/-18.85	-17.22/-17.8	-18.03/-18.92	-18.89/-17.61	-15.27/-14.14	-15.62/-17.92	-15.99/-12.45	-11.18/-10.69	-11.17/-12.64	-17.86/-18.76	-18.76/-19.02	-17.96/-18.81	-16.99/-13.75	-12.31/-8.87	-11.88/-11.88	-15.03/-14.3	-18.51/-17.49
Θ(180°)	-14.66/-16.61	-14.06/-15.37	-18.85/-18.49	-19.15/-18.52	-19.32/-19.07	-19.11/-19.22	-15.38/-14.18	-13.4/-13.72	-12.45/-11.02	-12.15/-10.44	-10.47/-9.31	-9.34/-10.12	-9.97/-11.38	-12.17/-12.94	-14.61/-14.46	-18.96/-18.03	-18.54/-17.43	-17.99/-18.9	-18.01/-16.45	-15.6/-13.4	-11.3/-11.43	-11.23/-10.86	-11.15/-11.29	-13.8/-13.23
Freq(Hz)	6.695GPol.	Theta/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-14.98/-14.42	-14.69/-10.34	-11.2/-10.19	-8.39/-9.53	-10.28/-10.28	-10.49/-10.47	-9.89/-11.08	-10.91/-10.44	-11.45/-14.16	-16.64/-15.86	-17.79/-19.27	-17.78/-18.17	-18.23/-16.91	-13.44/-12.01	-10.77/-10.25	-9.99/-10.39	-9.66/-10.43	-10.57/-9.47	-10.02/-11.18	-10.51/-11.27	-13.9/-15.15	-14.97/-17.8	-18.55/-18.47	-17.23/-14.35
Θ(7.5°)	-16.4/-13.96	-15/-13.32	-12.53/-9.99	-8.85/-8.75	-9.45/-10.99	-12.79/-13.35	-13.96/-12.55	-12.03/-11.71	-10.74/-9.38	-9.94/-11.14	-13.06/-14.84	-16.76/-17.49	-16.87/-18.55	-18.36/-19.02	-17.35/-17.54	-18.55/-18.43	-17.58/-17.59	-15.45/-15.21	-15.34/-14.35	-14.72/-14.21	-16.12/-17.81	-16.74/-18.19	-18.79/-16.6	-17.48/-17.22
Θ(15°)	-14.31/-13.63	-10.82/-12.19	-12.34/-12.73	-7.62/-8.41	-10.33/-12.41	-10.77/-18.98	-9.15/-8.89	-7.53/-8.19	-7.8/-8.19	-10.47/-11.47	-10.11/-10.91	-11.04/-11.81	-14.66/-13.83	-17.33/-17.88	-18.12/-18.88	-19.19/-18.12	-19.35/-17.01	-19.29/-19.31	-17.83/-17.66	-18.06/-16.64	-14.83/-13.71	-12.88/-14.17	-13.68/-12.92	-14.39/-12.99
Θ(22.5°)	-7.8/-7.8	-6.75/-7.48	-6.23/-9.67	-13.22/-13.96	-10.06/-9.01	-9.68/-14.25	-14.55/-9.17	-8.39/-11.03	-12.32/-5.97	-3.98/-3.15	-5.71/-8.66	-13.25/-12.04	-13.81/-9.33	-6.88/-6.89	-6.47/-7.54	-9.9/-17.31	-17.74/-12.45	-9.01/-8.47	-12.51/-19.26	-11.81/-11.88	-13.12/-13.83	-11.24/-10.94	-13.61/-12.43	-10.79/-11.41
Θ(30°)	-10.81/-10.72	-8.32/-5.52	-4.55/-6.79	-4.84/-9.51	-10.9/-7.7	-11.51/-8.25	-6.41/-7.04	-5.52/-5.98	-6.2/-5.37	-6.87/-9.79	-14.11/-10.48	-7.97/-7.49	-7.31/-7.57	-8.46/-12.18	-14.63/-17.65	-8.13/-10.74	-11.42/-10.72	-12.32/-9.61	-8.13/-18.67	-8.49/-6.72	-5.54/-5.71	-8.69/-10.38	-9.85/-13.61	-
Θ(37.5°)	-3.84/-3.96	-6.78/-4.67	-4.31/-5.31	-4.82/-4.79	-6.09/-6.15	-4.19/-6.91	-4.18/-3.59	-5.6/-4.09	-6.74/-7.48	-6.37/-5.55	-3.01/-2.54	-4.31/-4.54	-7.29/-10.13	-7.15/-7.23	-3.7/-3.38	-15.85/-16.1	-10.14/-13.85	-15.65/-17.44	-8/-5.98	-6.32/-6.42	-6.75/-5.6	-4.97/-5.82	-7.51/-9.35	-7.33/-5.46
Θ(45°)	-3.32/-2.07	-1.26/-0.29	-0.12/-2.62	-1.48/-1.91	-1.81/-2.89	-1.85/-4.97	-1.05/-1.99	-1.47/-1.52	-4.9/-4.29	-2.09/-0.77	-0.3/-2.47	-0.73/-1.79	0.49/0.2	-0.9/-0.29	-5.49/-3.64	-5.25/-6.35	-10.66/-5.29	-16.38/-4.64	-7.85/-5.72	-5.36/-4.96	-4.49/-4.27	-5.71/-6.89	-3.75/-3.48	-3.96/-2.61
Θ(52.5°)	0.28/-1.52	-1.4/-2.48	0.4/-2.44	-1.26/-5.14	-0.13/-2.39	-1.6/-0.98	-1.9/-0.41	-2.85/-2.43	-4.91/-5.83	-6.04/-2.37	-2.35/-1.85	-6.34/-4.29	-5.1/-4.06	-5.22/-2.52	-4.82/-4.75	-6.23/-10.08	-9.33/-9.23	-4.47/-7.35	-4.49/-2.95	-2.86/-6.94	-2.23/-2.14	-3.94/-3	-2.96/-0.44	-0.6/-2.65
Θ(60°)	-0.92/-0.69	-5.540/-59	-3.52/-1.52	-0.24/-2.56	0.38/-3.31	-0.31/-4.48	-0.470/-7.2	-6.39/-2.36	-2.52/-6.08	-6.11/-3.25	-4.29/-10.69	-5.19/-2.24	-1.28/-0.42	-3.49/-4.11	-10.68/-10.29	-4.95/-8.15	-6.19/-6.9	-2.36/-3.26	-3.09/-3.02	-1.87/-2.17	-1.09/-0.42	-1.54/-4.04	-4.55/-1.13	-0.29/-0.07
Θ(67.5°)	-0.34/-3.92	0.88/-2.78	-2.83/-3.78	-0.4/-4.87	-1.37/-1.79	-1.96/-2.67	-1.73/-1.99	-2.09/-1.58	-2.58/-1.73	-1.13/-0.65	0.2/-1.27	0.160/-99	2.12/-2.15	0.12/-5.02	-2.85/-10.84	-2.71/-16.69	-7.14/-4.26	-2.17/-4.27	-1.92/-5.73	-1.1/-1.06	-0.11/-0.91	-2.41/-2.65	-1.83/-2.79	0.61/-1.73
Θ(75°)	-2.73/-1.76	-1.14/-1.16	-6.46/-2.85	-2.29/-3.06	-0.49/-4.24	-4.38/-1.5	-0.56/-1.43	-2.28/-2.87	-7.41/-4.3	-0.31/-1.55	0.20/-2.13	1.151/-23	0.59/-2.79	-0.27/-0.32	-1.15/-4.6	-3.170/-54	-1.78/-3.99	-1.12/-0.83	-0.84/-5.71	-0.290/-53	0.970/-15	0.76/-0.96	-2.01/-1.54	-1.94/-1.33
Θ(82.5°)	0.01/-2.15	-1.18/-2.72	-3.18/-2.23	-1.850/-8.2	0.91/-2.54	-2.58/-1.44	-0.070/-99	-3.6/-5.11	-8.69/-3.53	-0.99/-9.49	-1.03/-7.28	-2.69/-3.59	0.07/-8.13	-4.79/-0.28	-0.76/-2.63	-1.26/-0.01	-3.28/-1.93	-0.370/-84	0.08/-2.4	-1.650/-9	3.290/06	1.47/-2.7	-2.8/-1.6	-6.41/-1.58
Θ(90°)	-1.07/-0.24	-2.76/-3.94	-0.96/-0.23	-0.53/-0.68	-0.21/-2.16	-0.72/-0.98	-1.420/-11	-9.35/-7.88	-12.22/-6.46	-5.24/-7.57	-5.21/-5.74	-12.07/-9.02	-3.23/-18.65	-15.43/-18.7	-8.73/-6.65	-12.91/-13.43	-0.22/-1.89	0.680/-75	-0.470/-18	2.971/-95	1.99/-4.29	-3.4/-2.35	-	-
Θ(97.5°)	-2.23/-0.83	-7.8/-2.88	-1.33/-0.27	-8.81/-1.01	-0.014/-2.27	-1.93/-3.87	-3.15/-4.17	-4.42/-7.65	-16.14/-7.5	-9.34/-7.95	-8.66/-12.75	-9.34/-6.12	-4.04/-5.19	-7.76/-3.89	-6.87/-7	-0.171/-93	-0.560/-69	1.6/-0.41	0.12/-51	1.34/-1.88	0.830/-48	-0.73/-1.26	-	-
Θ(105°)	-7.58/-1.26	-2.64/-5.36	-6.2/-0.19	-1.42/-4.81	-4.24/-8.12	-4.67/-9.49	-2.53/-2.66	-6.5/-5.98	-7.36/-7.84	-15.61/-14.3	-7.41/-17.32	-12.08/-10.37	-9.31/-3.05	-7.05/-7.83	-2.15/-4.75	-14.98/-3.03	-14.72/-3.26	1.070/-21	-3.44/-2.79	-0.29/-0.61	-1.81/-1.34	1.29/-1.96	-2.97/-1.25	-0.52/-2.47
Θ(112.5°)	-6.05/-2.8	-0.59/-5.64	-6.87/-1.17	-2.73/-5.62	-4.96/-7.73	-7.32/-6.58	-2.38/-2.62	-8.4/-5.9	-7.14/-17.82	-10.68/-12.99	-16.65/-19.7	-15.4/-9.7	-2.71/-16.43	-12.12/-3.31	-2.44/-7.52	-5.92/-2.02	-8.06/-3.96	-1.52/-2.42	-3.65/-4.31	-1.890/-93	-1.69/-3.34	-0.8/-4.46	-5.53/-0.53	-0.67/-4.78
Θ(120°)	-2.07/-1.6	-3.01/-5.57	-3.75/-5.5	-6.44/-2.99	-3.98/-7.32	-6.34/-6.5	-4.66/-2.59	-11.53/-11.81	-8.94/-11.02	-8.81/-10.41	-13.24/-13.59	-10.57/-2.8	-0.9/-8.7	-6.21/-5.6	-8.83/-14.79	-6.820/-48	-1.81/-3.6	-2.61/-8.93	-5.78/-4.31	-1.220/-74	-0.56/-1.86	-3.76/-3.21	-0.34/-0.65	-1.91/-6.77
Θ(127.5°)	-4.06/-3.83	-6.84/-10.09	-3.78/-3.94	-3.34/-3.92	-4.55/-12.71	-5.85/-6.99	-3.7/-5.22	-4.47/-11.99	-11.15/-17.71	-14.14/-12.35	-10.83/-15.02	-11.71/-7.35	-5.17/-7.32	-10.38/-2.9	-2.36/-10.31	-5.66/-8.02	-5.07/-3.71	-0.62/-3.9	-10.3/-4.96	-0.570/-87	1.2/-2.68	-0.15/-1.16	-10.82/-2.31	-4.42/-6.66
Θ(135°)	-3.93/-4.43	-4.04/-7.23	-1.81/-5.96	-2.41/-3.03	-7.38/-7.46	-6.34/-5.77	-3.52/-5.21	-5.68/-7.13	-10.91/-14.3	-17.86/-19.09	-13.87/-12.97	-16.5/-12.86	-13.56/-9.6	-10.29/-6.68	-8.8/-17.05	-13.55/-8.88	-8.06/-8.7	-5.21/-3.4	-8.17/-8.61	1.782/-49	-0.33/-5.58	-2.610/-73	-1.5/-2	-1.49/-6.41
Θ(142.5°)	-8.03/-4.47	-5.68/-7.74	-5.62/-7.83	-4.53/-4.38	-6.42/-4.52	-5.66/-7.39	-5.71/-5.57	-15.78/-14.32	-9.63/-13.73	-18.75/-11.24	-16.69/-6.86	-5.25/-12.84	-15.48/-10.61	-11.64/-8.55	-5.51/-6.8	-17.52/-9.44	-17.32/-7.87	-10.74/-12.54	-10.18/-15.33	-1.43/-0.37	-0.39/-2.66	-3.64/-1.17	-1.95/-7.19	-5.46/-5.53
Θ(150°)	-6.07/-5.86	-4.45/-4.23	-3.94/-5.42	-5.23/-5.09	-5.47/-5.05	-6.42/-7.45	-14.07/-18.9	-11.66/-14.24	-17.88/-17.99	-18.02/-17.98	-14.99/-10.2	-9.64/-10	-11.43/-12.99	-10.5/-8.61	-6.14/-8.5	-12.91/-13.43	-9.67/-9.91	-11.7/-9.11	-8.48/-10.73	-1.98/-6.8	-3.73/-2.96	-2.05/-0.9	-1.79/-5.11	-7.1/-4.86
Θ(157.5°)	-4.77/-3.68	-4.15/-5.74	-7.95/-10.07	-9.3/-5.48	-2.61/-3	-5.66/-9.62	-17.56/-11.09	-10.92/-14.14	-14.99/-18.33	-18.59/-19.2	-15.96/-14.13	-13.18/-19.2	-18.42/-10.83	-9.12/-5.3	-4.95/-3.72	-10.1/-7.46	-8.24/-6.1	-8.58/-9.76	-10.22/-18.19	-12.66/-7.91	-7.44/-4.98	-5.5/-4.86	-4.69/-4.37	-5.73/-6.34
Θ(165°)	-5.66/-9.01	-8.74/-9.64	-11.04/-10.45	-8.97/-9.33	-11.96/-10.77	-10.57/-12.12	-13.55/-13.01	-11.87/-12.03	-17.83/-14.62	-17.21/-11.18	-12.43/-17.09	-14.99/-13.23	-14.22/-17.34	-12.31/-8.1	-9.9/-7.76	-6.54/-7.36	-8.88/-8.81	-12.59/-12.35	-10.32/-11.09	-9.94/-8.13	-6.63/-6.76	-6.52/-6.78	-6.88/-6.88	-6.38/-5.97
Θ(172.5°)	-7.61/-8.5	-10.74/-9.28	-8.52/-10.21	-13.69/-15.28	-11.53/-11.94	-10.87/-9.14	-9.77/-11.33	-15.94/-12.03	-13.85/-12.04	-16.65/-18.12	-17.88/-16.79	-16.96/-18.04	-19.06/-18.6	-18.7/-17.3	-13.74/-12.54	-10.36/-9.51	-10.22/-8.67	-8						





Antenna Pattern of 2.4GHz and 5GHz UNII 1~3

Appendix D

Θ(22.5°)	-9.97/-7.75	-9.32/-10.34	-11.54/-9.99	-10.57/-7.98	-7.06/-6.55	8.65/-7.56	-6.72/-6.36	-5.07/-5.95	-6.05/-6.16	-7.23/-7.80	-8.80/-8.66	-7.04/-6.89	-6.90/-6.72	-6.89/-6.56	-7.25/-10.27	-9.13/-7.67	-8.65/-10.02	-8.46/-6.88	-8.09/-10.06	-10.78/-12.45	-10.81/-10.24	-11.97/-10.23	-8.11/-6.52	-7.16/-11.57
Θ(30°)	-8.13/-6.79	-5.43/-7.89	-11.39/-8.66	-5.78/-4.55	-4.21/-3.97	-5.20/-8.32	-13.52/-15.42	-15.01/-15.47	-12.88/-12.34	-13.19/-10.63	-7.98/-6.14	-4.75/-5.00	-7.52/-10.19	-5.29/-10.56	-5.29/-5.27	-9.58/-6.63	-5.49/-3.92	-3.58/-4.63	-8.01/-10.46	-9.56/-12.48	-6.71/-5.22	-3.92/-3.86	-4.31/-4.98	-7.37/-5.60
Θ(37.5°)	-2.73/-5.77	-4.26/-5.13	-6.03/-6.68	-5.27/-7.31	-4.69/-3.79	-3.20/-2.04	-1.23/-0.55	-0.63/-1.53	-2.59/-2.83	-4.74/-6.27	-8.52/-7.83	-9.98/-8.80	-7.23/-9.93	-7.07/-5.11	-5.41/-3.95	-5.18/-3.95	-2.96/-3.37	-4.44/-4.89	-6.00/-6.91	-6.15/-5.11	-4.68/-6.25	-4.35/-3.79	-2.68/-3.45	-2.08/-3.53
Θ(45°)	-2.83/-4.21	-1.55/-3.22	-3.20/-3.24	-3.17/-2.06	-1.24/-2.29	-1.74/-1.89	-1.20/-1.44	-1.85/-1.15	-0.73/-0.66	-1.78/-3.56	-5.83/-6.14	-5.55/-5.85	-8.12/-6.87	-4.63/-6.11	-7.09/-3.44	-3.88/-4.00	0.28/-3.19	-5.43/-5.17	-4.19/-5.69	-6.32/-5.39	-6.00/-5.20	-3.92/-5.51	-3.79/-1.65	-2.04/-0.84
Θ(52.5°)	-4.70/-4.42	-2.53/-1.73	-5.03/-1.86	-3.19/-6.19	-3.92/-1.98	-4.53/-5.70	-4.74/-6.39	-4.16/-3.32	-3.58/-5.33	-5.40/-7.95	-4.71/-3.48	-5.22/-5.80	-5.31/-5.48	-4.27/-7.42	-8.33/-4.30	-5.20/-4.41	-1.08/-4.84	-3.56/-2.74	-6.20/-4.52	-4.00/-3.96	-3.41/-3.21	-3.91/-6.43	-4.51/-8.00	-3.23/-7.52
Θ(60°)	-3.65/-3.16	-2.30/-0.81	-1.97/-2.15	-1.24/-1.74	-0.47/-1.45	-0.90/-1.13	-0.64/-0.69	-1.10/-3.09	-2.58/-2.86	-3.27/-1.77	-3.11/-2.28	-4.26/-2.48	-5.12/-3.37	-3.75/-3.83	-4.03/-6.52	-6.13/-4.45	-2.15/-2.69	-5.25/-2.41	-3.34/-2.28	-2.59/-3.34	-3.39/-6.38	-4.50/-2.74	-4.50/-6.15	-2.66/-4.33
Θ(67.5°)	-3.58/-3.03	-2.66/-3.82	-3.23/-1.56	0.39/-1.09	-2.10/-0.25	-0.56/-0.62	-0.46/-0.02	-0.68/-0.44	-0.46/-0.07	-0.06/-5.95	-1.34/-2.69	-3.46/-3.91	-3.13/-4.94	-4.32/-5.01	-3.77/-4.00	-3.63/-5.29	-3.16/-2.35	-3.23/-2.71	-2.49/-0.33	-0.93/-3.62	-5.94/-7.90	-5.10/-2.24	-5.97/-2.81	-0.94/-4.88
Θ(75°)	-3.69/-2.31	-2.88/-1.95	-2.90/-2.09	-2.59/-1.74	-1.31/-0.81	-0.92/-1.49	-0.54/-1.50	-0.97/-2.31	-2.47/-0.80	-1.99/-1.59	-1.30/-1.30	-2.77/-3.43	-1.78/-5.39	-7.40/-4.90	-4.15/-3.78	-2.70/-2.13	-3.52/-4.10	-4.95/-2.14	-0.62/-0.80	-1.70/-2.33	-2.33/-2.41	-0.62/-4.72	-6.54/-1.63	-6.47/-6.40
Θ(82.5°)	-0.52/-0.79	-2.49/-5.21	-4.36/-1.10	-0.88/-0.11	0.63/-1.79	-2.45/-2.32	-0.49/-1.84	-0.14/-0.71	-0.53/-0.58	-4.36/-3.93	-3.93/-2.12	-6.91/-4.49	-4.35/-4.54	-5.76/-4.43	-2.34/-1.62	-0.84/-0.96	-1.80/-2.67	-0.78/-2.11	-1.02/-1.01	-1.67/-0.72	0.06/-2.33	-0.69/-1.64	-0.00/-0.77	-1.10/-2.70
Θ(90°)	-0.14/-3.16	-6.43/-6.36	-3.64/-4.15	-1.35/-0.17	1.750/-57	2.271/-89	1.86/-0.03	2.851/-96	-1.22/-1.40	-0.10/-1.44	-1.24/-0.35	-9.27/-13.85	-5.10/-2.61	-6.31/-2.49	-5.65/-3.14	0.18/-1.76	-1.39/-2.03	0.580/-33	0.22/-3.14	-1.91/-0.70	-2.19/-7.55	-0.77/-0.93	-0.09/-1.28	-2.83/-6.75
Θ(97.5°)	-2.47/-4.49	-6.42/-5.75	-6.59/-9.45	-3.77/-1.11	-3.92/-5.70	-3.99/-2.43	-1.80/-2.43	-0.52/-2.93	-4.14/-4.07	-2.86/-6.22	-5.09/-6.30	-7.62/-9.14	-3.06/-0.96	-4.31/-7.02	-2.46/-1.19	-2.59/-1.56	-1.62/-3.30	-2.15/-3.83	-0.25/-0.81	-1.76/-0.24	-0.67/-3.69	0.73/-2.87	-1.81/-1.41	-2.96/-4.17
Θ(105°)	-1.40/-3.57	-9.07/-15.34	-5.52/-4.91	-3.91/-0.39	-2.66/-2.70	-3.03/-5.44	-3.54/-3.78	-2.49/-5.85	-4.30/-7.88	-5.55/-4.53	-10.62/-8.91	-8.34/-2.44	-3.43/-7.57	-4.85/-1.26	0.16/-2.54	-1.99/-3.15	0.53/-0.65	-2.94/-0.26	-1.35/-0.89	-2.20/-8.71	-1.78/-0.51	-0.59/-1.72	-0.38/-2.00	
Θ(112.5°)	-5.07/-4.29	-10.85/-15.37	-15.36/-11.55	-15.79/-5.35	-4.35/-3.32	-5.34/-11.91	-9.95/-6.43	-6.27/-8.83	-10.27/-9.99	-6.58/-15.14	-8.29/-5.87	-5.56/-7.67	-0.07/-2.66	-1.46/-8.71	-5.89/-3.19	-4.82/-5.82	-3.67/-3.82	-2.80/-3.91	-1.21/-2.65	-4.01/-3.23	-2.23/-9.89	-1.29/-5.37	-3.84/-3.23	-4.54/-4.33
Θ(120°)	-3.49/-5.29	-4.34/-3.16	-4.47/-3.27	-3.04/-6.53	-4.14/-6.08	-9.60/-11.87	-9.29/-7.69	-11.63/-7.84	-7.35/-4.76	-14.85/-13.76	-11.63/-7.84	-7.35/-4.76	-4.60/-1.48	-2.76/-7.82	-3.51/-0.37	-0.36/-3.68	-1.75/-6.31	-4.37/-4.84	-8.99/-8.92	-5.38/-2.70	-6.45/-11.30	-10.52/-8.18	-8.52/-5.78	-3.73/-6.28
Θ(127.5°)	-6.652/-0.1	-6.15/-4.64	-4.45/-4.35	-6.47/-9.23	-5.43/-0.14	-3.18/-1.52	-9.30/-6.89	-15.65/-10.03	-9.24/-2.43	-5.01/-8.20	-8.85/-6.56	-5.80/-6.00	-8.42/-7.74	-4.42/-2.60	-11.23/-3.94	-2.96/-5.04	-2.18/-1.43	-2.83/-2.77	-3.65/-6.51	-6.91/-10.33	-7.57/-5.61	-1.59/-2.38	-0.45/-0.21	
Θ(135°)	0.46/-3.88	0.50/-7.92	-5.21/-8.31	-5.42/-2.87	-0.65/-3.52	-5.26/-5.57	-6.66/-6.45	-6.19/-6.89	-7.30/-8.79	-10.83/-12.66	-3.94/-4.84	-9.77/-6.97	-7.59/-4.56	-3.63/-7.69	-4.46/-0.81	-1.76/-5.06	-15.42/-13.93	-12.60/-9.90	-10.67/-9.88	-11.71/-9.18	-9.44/-7.07	-8.45/-7.85	-5.15/-5.85	-4.62/-1.78
Θ(142.5°)	-5.02/-5.88	-7.13/-5.11	-8.71/-6.25	-8.19/-7.84	-7.07/-8.15	-13.06/-10.39	-10.28/-12.65	-11.40/-7.92	-10.88/-10.86	-11.93/-10.74	-5.27/-3.25	-4.57/-4.00	-3.79/-4.16	-1.44/-3.86	-6.90/-3.47	-2.49/-5.00	-6.96/-5.17	-5.71/-9.63	-7.13/-8.74	-14.25/-11.65	-9.37/-11.98	-8.89/-5.68	-11.00/-6.84	-4.62/-12.02
Θ(150°)	-2.62/-3.33	-3.61/-5.71	-9.03/-7.91	-10.01/-14.68	-8.96/-6.57	-7.22/-5.56	-5.24/-8.97	-12.91/-13.38	-0.29/-5.49	-6.72/-4.72	-3.55/-4.99	-3.26/-2.17	-2.98/-2.53	-3.04/-5.00	-3.18/-3.09	-1.89/-6.99	-5.49/-3.51	-3.55/-4.08	-4.56/-3.30	-3.24/-7.83	-9.92/-8.86	-6.72/-5.03	-6.72/-6.60	-4.61/-2.03
Θ(157.5°)	-8.62/-3.33	-3.49/-5.77	-3.90/-6.66	-7.77/-8.85	-5.30/-2.19	-1.89/-3.02	-4.76/-7.29	-9.29/-12.83	-12.36/-8.31	-4.11/-3.13	-1.85/-0.84	0.12/-0.36	-1.19/-1.48	0.180/-32	0.05/-0.21	-1.38/-2.66	-6.67/-13.03	-7.20/-3.34	-4.60/-4.21	-3.57/-5.64	-7.24/-6.65	-9.29/-7.28	-4.21/-3.15	-6.31/-11.98
Θ(165°)	-1.56/-1.59	-8.33/-5.29	-7.96/-8.61	-3.66/-2.75	-2.08/-1.88	-2.36/-4.08	-4.70/-3.87	-3.52/-3.02	-1.85/-0.17	0.700/-98	0.84/-153	1.91/-197	2.54/-134	3.412/-81	1.25/-0.02	0.040/-09	-1.09/-5.28	-4.23/-4.92	-5.25/-6.17	-7.90/-7.04	-7.14/-7.69	-6.25/-4.12	-3.32/-6.77	-4.45/-2.78
Θ(172.5°)	-2.85/-1.00	-8.53/-4.98	-1.61/-1.03	-2.41/-4.53	-4.71/-3.54	-1.86/-0.41	-0.04/-0.44	-0.56/-4.09	-0.36/-0.23	0.040/-86	1.53/-161	2.14/-271	2.912/-97	2.861/-82	0.61/-0.89	-2.00/-3.19	-3.70/-4.75	-4.66/-5.27	-5.95/-5.26	-4.34/-5.35	-4.45/-4.10	-4.68/-6.17	-5.33/-4.01	-2.14/-1.09
Θ(180°)	-4.02/-5.75	-4.10/-3.04	-2.26/-4.53	-7.35/-4.02	-1.46/-0.54	0.10/-0.52	-1.93/-1.47	-1.55/-1.74	-2.02/-1.56	-1.21/-1.68	-1.58/-1.41	-1.13/-1.49	-1.06/-1.39	-1.01/-0.85	-1.00/-1.20	-1.67/-1.91	-2.40/-2.83	-2.89/-2.88	-3.06/-3.02	-2.84/-2.11	-3.10/-3.35	-3.21/-1.79	-1.59/-0.77	-4.32/-2.62
Freq(Hz)	2.45GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-4.85/-5.39	-5.84/-6.05	-6.31/-6.75	-7.23/-7.50	-6.65/-5.96	-6.35/-7.71	-7.43/-6.25	-5.87/-6.02	-6.25/-6.39	-6.41/-6.24	-5.78/-5.37	-5.11/-4.98	-5.04/-5.37	-5.52/-5.50	-5.69/-5.75	-6.11/-6.72	-6.88/-6.15	-5.43/-5.52	-7.00/-7.50	-5.99/-4.45	-4.05/-4.55	-5.12/-5.26	-5.26/-5.19	-5.11/-5.31
Θ(7.5°)	-5.69/-6.02	-6.17/-6.10	-6.06/-6.24	-6.35/-5.86	-5.05/-4.65	-5.38/-6.65	-6.67/-5.40	-4.49/-6.46	-5.03/-5.34	-5.58/-5.38	-5.57/-5.82	-6.24/-6.83	-7.28/-7.46	-7.41/-7.65	-8.29/-9.00	-8.97/-8.38	-8.14/-8.46	-9.64/-9.58	-8.34/-6.69	-6.30/-6.35	-6.46/-6.64	-6.42/-5.97	-5.70/-5.70	
Θ(15°)	-7.11/-7.22	-7.01/-6.74	-6.69/-6.87	-6.98/-6.38	-5.31/-4.64	-4.80/-5.47	-6.25/-5.95	-4.81/-6.41	-4.92/-5.46	-5.93/-5.91	-5.74/-5.56	-5.80/-6.16	-6.82/-6.02	-9.67/-10.87	-10.10/-10.56	-9.93/-9.09	-8.82/-9.85	-12.49/-12.89	-11.87/-11.90	-12.19/-10.61	-9.47/-8.90	-9.47/-8.84	-8.01/-7.65	
Θ(22.5°)	-8.37/-8.66	-8.84/-9.46	-9.78/-9.18	-8.10/-7.37	-6.53/-5.79	-5.21/-5.03	-5.29/-5.54	-5.42/-5.88	-6.69/-7.75	-8.52/-8.62	-8.15/-7.67	-7.61/-7.69	-8.37/-9.59	-11.35/-11.82	-10.66/-10.71	-10.06/-8.97	-8.01/-7.48	-7.62/-9.32	-12.32/-11.86	-11.19/-11.45	-11.21/-7.59	-5.78/-5.86	-6.87/-7.66	-7.96/-8.37
Θ(30°)	-8.52/-9.06	-10.99/-13.46	-11.94/-6.61	-6.87/-6.77	-7.33/-8.31	-9.20/-8.70	-7.73/-6.67	-5.78/-5.52	-5.32/-5.28	-6.00/-7.06	-8.57/-9.40	-10.13/-9.53	-8.37/-7.24	-7.14/-7.05	-7.83/-9.39	-10.73/-9.33	-7.12/-5.90	-5.65/-6.70	-8.47/-10.41	-8.87/-7.48	-6.99/-6.68	-4.20/-3.45	-3.78/-7.49	-6.27/-8.01
Θ(37.5°)	-7.71/-8.27	-11.67/-13.25	-9.76/-7.30	-6.47/-7.34	-8.49/-8.16	-7.24/-6.52	-5.59/-5.02	-4.34/-3.93	-3.13/-2.70	-2.91/-7.38	-5.10/-7.18	-10.63/-13.25	-9.51/-6.40	-5.33/-4.91	-5.78/-8.74	-14.29/-10.37	-5.76/-4.04	-3.84/-4.91	-6.31/-8.23	-6.63/-5.13	-4.97/-5.49	-5.01/-3.88	-3.71/-5.06	-7.62/-8.65
Θ(45°)	-4.23/-5.00	-8.13/-9.28	-7.22/-5.51	-4.95/-4.37	-3.08/-1.55	-0.50/-0.20	-0.82/-1.72	-2.17/-2.44	-2.15/-1.88	-1.98/-2.58	-3.28/-3.80	-5.38/-9.59	-4.88/-7.17	-4.88/-4.32	-5.13/-8.29	-14.05/-8.84	-4.54/-3.10	-3.35/-4.49	-4.56/-4.46	-3.83/-3.80	-4.37/-6.14	-6.69/-5.00	-4.66/-7.29	-11.89/-6.98
Θ(52.5°)	-1.03/-2.16	-4.87/-6.07	-4.59/-2.64	-1.16/-0.02	0.590/-85	1.091/-37	1.200/-91	0.26/-0.48	-0.60/-0.80	-1.11/-1.44	-1.44/-1.90	-3.36/-6.46	-8.64/-6.95	-4.62/-3.48	-4.52/-0.89	-10.51/-5.71	-3.04/-2.84	-3.52/-3.73	-2.53/-2.03	-2.19/-3.33	-3.91/-5.34	-5.46/-4.15	-4.66/-9.13	-8.04/-2.74
Θ(60°)	-1.11/-1.94	-3.20/-4.80	-3.88/-1.54	0.61/-1.72	1.831/-58	1.351/-64	2.032/-37	1.720/-67	0.13/-0.84	-1.62/-0.67	0.650/-75	-0.52/-1.18	-3.61/-4.80	-4.89/-3.42	-3.77/-7.03	-8.04/-4.64	-2.85/-2.72	-2.27/-1.05	-0.26/-1.14	-2.39/-3.13	-2.62/-3.59	-3.71/-2.62	-3.73/-6.38	-3.32/-2.20
Θ(67.5°)	-0.27/-0.37	-2.56/-2.50	-0.40/-2.31	0.040/-77	0.420/-11	-0.210/-0.03	-0.64/-1.61	-1.50/-2.68	-1.53/-3.16	0.14/-1.14	0.370/-15	-0.23/-1.30	-3.39/-3.82	-2.79/-4.59	-4.66/-3.78	-7.38/-3.28	-1.000/-80	-0.46/-1.37	-2.46/-2.25	-1.97/-2.85	-2.21/-1.38	-2.30/-2.31	-1.51/-1.05	
Θ(75°)	0.550/-98	-2.35/-5.14	-5.56/-6.53	-5.05/-4.32	-4.08/-2.98	-2.98/-3.32	-4.07/-5.00	-8.20/-11.38	-8.03/-7.04	-8.63/-10.13	-4.15/-0.98	-0.260/-65	1.76/-1.45	-0.42/-1.96	-1.77/-1.51	-1.28/-2.20	-4.16/-4.40	-1.290/-77	0.55/-0.53	-1.50/-1.83	-1.40/-1.44	-1.47/-1.25	-0.990/-05	1.11



Antenna Pattern of 2.4GHz and 5GHz UNII 1~3

Appendix D

Θ(75°)	-8.88/7.89	-5.66/5.82	-4.88/2.43	-4.28/0.48	-1.00/0.27	1.23/0.11	0.09/0.22	0.80/-0.81	-2.19/-1.18	-1.01/-0.78	-4.41/-5.29	-8.26/-6.03	-2.64/2.02	-3.32/-1.95	-1.04/-3.03	-4.24/-0.76	-1.62/-1.25	-1.46/-0.71	-0.38/0.55	-1.39/-1.32	-0.25/2.35	0.73/-1.09	-3.88/-4.27	-2.67/-3.32
Θ(82.5°)	-6.11/-9.95	-7.40/-10.66	-4.85/-2.43	-3.47/-0.43	-2.15/-1.09	1.15/-1.33	-0.17/-1.41	-0.94/-0.11	-1.95/-0.72	-3.33/-1.67	-6.81/-1.49	-15.66/-8.28	-0.36/-3.39	0.33/-0.58	-0.74/-0.57	-3.22/-1.56	0.94/2.90	1.55/1.25	1.95/1.88	0.92/0.93	1.14/0.79	0.70/-0.40	-2.92/-3.80	-1.21/-1.94
Θ(90°)	0.27/-4.47	-13.66/-7.51	-2.40/-3.68	-3.67/-1.17	-5.27/-0.88	-2.32/-4.52	-4.04/-4.68	-0.05/0.10	-1.77/-1.51	-3.73/-0.47	-8.84/-8.42	-9.27/-5.37	-2.66/-1.31	2.07/1.31	-2.66/0.02	1.54/2.25	0.34/0.00	1.58/2.31	1.98/2.31	0.36/1.25	-0.20/-1.40	-3.00/-5.04	-1.77/-1.73	
Θ(97.5°)	0.34/-0.53	-6.61/-4.13	-2.37/-6.00	-10.72/-1.82	-8.14/-5.12	-5.62/-10.91	-12.40/-9.67	-5.84/-2.69	-5.28/-2.17	-4.32/-2.29	-1.88/-10.09	-13.64/-2.41	-1.93/-3.11	0.77/0.03	-0.93/-0.72	-1.60/-2.65	1.48/-1.12	1.45/1.39	2.22/2.35	2.18/1.01	-4.48/0.15	0.63/-0.57	-2.04/-3.16	1.03/0.42
Θ(105°)	-3.40/-1.50	-3.80/-4.41	-6.50/-5.45	-12.78/-8.15	-6.52/-7.04	-5.32/-3.14	-7.44/-8.76	-3.11/-6.72	-10.87/-11.20	-10.48/-5.46	-5.01/-4.77	-6.69/-5.28	-3.45/-3.75	-0.09/-4.32	-2.05/-3.00	-2.61/-2.13	1.07/0.99	2.17/1.31	1.50/-0.11	-0.34/-1.07	1.05/-2.87	-10.94/-4.00	0.60/-2.21	
Θ(112.5°)	0.40/-2.15	-4.22/-3.03	-2.22/-6.11	-14.96/-9.43	-12.02/-6.13	-4.76/-6.45	-6.50/-4.73	-0.66/-1.79	-4.67/-8.05	-6.49/-4.94	-7.71/-8.19	-6.19/-2.20	-1.75/-1.78	0.62/-2.34	-4.20/-8.23	-6.76/-4.20	-0.94/-0.97	-1.01/-2.63	-1.67/-1.93	1.26/-0.24	-2.16/-3.51	0.65/-4.65	-12.33/-3.70	-3.39/-0.41
Θ(120°)	-2.51/-2.44	-4.78/-1.25	-5.16/-6.23	-10.46/-4.43	-3.33/-12.36	-12.14/-9.84	-9.78/-9.05	-7.06/-3.44	-1.90/-1.87	-3.93/-6.09	-2.04/-12.10	-7.22/-7.71	-4.35/-3.67	-3.56/-2.42	-5.58/-10.94	-14.96/-7.08	-2.34/-6.04	-8.09/-7.30	-7.70/-5.65	-3.75/-2.72	-5.00/-10.21	-9.05/-14.64	-9.70/-7.48	-1.07/-1.44
Θ(127.5°)	-12.83/-1.88	-6.74/-11.54	-11.84/-11.31	-9.13/-7.77	-6.41/-4.65	-8.32/-4.12	-2.83/-6.76	-6.87/-4.00	-4.83/-6.14	-4.90/-13.44	-7.05/-9.38	-12.44/-6.86	-5.64/-6.17	-8.00/-8.40	-14.07/-11.21	-10.80/-8.79	-6.35/-6.79	-7.27/-6.37	-5.25/-4.07	-8.77/-6.71	-15.24/-13.22	-6.60/-5.62	-8.83/-11.38	0.53/-0.79
Θ(135°)	-2.97/-5.01	-4.51/-3.61	-5.56/-12.92	-12.65/-7.37	-7.25/-11.78	-12.61/-12.56	-9.38/-9.01	-5.51/-7.40	-9.78/-11.81	-11.15/-12.57	-9.87/-12.60	-10.78/-4.48	-8.03/-7.90	-10.28/-13.25	-9.78/-6.83	-10.49/-4.65	-4.31/-6.68	-8.63/-10.89	-15.05/-9.60	-6.41/-5.78	-3.90/-6.64	-12.91/-15.00	-3.89/-1.18	-4.55/-8.49
Θ(142.5°)	-1.93/-3.89	-3.34/-1.37	-2.14/-5.71	-7.88/-10.03	-10.83/-9.15	-9.51/-10.56	-15.25/-9.72	-6.02/-4.51	-6.83/-11.62	-10.05/-5.21	-7.00/-11.30	-3.82/-4.05	-2.54/-2.90	-6.77/-8.29	-2.93/-3.72	-6.69/-8.04	-6.27/-3.05	-2.88/-4.57	-3.12/-2.07	-3.83/-7.99	-6.69/-6.68	-7.55/-6.74	-3.75/-5.67	-4.31/-1.77
Θ(150°)	-3.61/-4.73	-4.06/-5.58	-7.71/-12.05	-8.31/-7.85	-6.46/-9.10	-8.57/-7.20	-5.94/-6.05	-10.36/-11.84	-14.27/-6.72	-4.06/-5.28	-5.85/-6.88	-3.10/-1.19	0.13/-1.14	-3.71/-8.41	-2.89/-3.65	-6.84/-9.94	-7.74/-6.95	-5.41/-2.84	-3.42/-5.78	-11.31/-12.28	-7.65/-7.38	-10.99/-7.71	-0.89/0.46	0.32/-1.26
Θ(157.5°)	-0.93/-3.73	-8.09/-10.70	-6.75/-5.42	-6.50/-6.42	-7.01/-9.39	-8.70/-10.26	-7.95/-8.32	-1.81/-13.35	-9.93/-4.97	-3.55/-6.13	-5.07/-1.80	-0.44/-5.07	-0.20/-0.12	-0.05/-0.13	-2.53/-7.08	-10.90/-13.69	-13.35/-8.13	-4.71/-4.45	-5.65/-9.79	-14.81/-7.72	-6.72/-7.34	-3.22/0.03	0.35/-0.89	-0.83/-0.70
Θ(165°)	-4.84/-8.59	-8.14/-6.92	-7.28/-6.13	-3.78/-1.78	-1.69/-1.54	-2.13/-2.37	-2.10/-1.57	-2.55/-3.32	-4.77/-4.68	-3.12/-2.22	-2.13/-1.69	-0.70/-0.03	-0.26/-1.98	-5.43/-6.80	-6.50/-6.78	-8.56/-8.81	-9.27/-7.42	-6.31/-5.15	-3.47/-2.49	-2.37/-1.02	-0.75/0.26	1.51/1.56	0.99/0.81	-0.83/-2.99
Θ(172.5°)	-0.70/0.55	-0.88/-1.55	-0.90/-0.21	0.24/0.06	0.09/0.17	-0.45/-0.51	-0.98/-1.62	-1.97/-1.82	-1.35/-0.55	-0.16/0.11	0.66/1.24	1.42/1.24	0.60/-0.51	-1.43/-1.51	-1.81/-1.79	-1.67/-2.41	-2.76/-2.50	-2.29/-2.22	-1.49/-0.94	-0.18/-0.03	0.94/1.78	2.85/1.63	-1.05/-3.49	-4.62/-1.96
Θ(180°)	-1.41/-0.64	-1.04/0.13	2.36/3.51	4.15/4.61	4.75/4.15	4.04/3.70	3.64/3.57	3.50/3.44	3.22/2.96	3.11/3.11	3.16/2.87	2.48/2.10	1.95/1.64	1.50/1.74	2.01/1.59	1.70/1.73	1.65/2.13	2.03/1.48	0.15/-2.01	-4.05/-3.71	-2.61/-2.01			
Freq(Hz)	5.785GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-13.78/-15.43	-15.61/-15.59	-14.52/-16.57	-14.64/-15.24	-14.87/-16.15	-14.63/-16.54	-15.16/-15.37	-15.78/-14.94	-15.90/-15.03	-15.89/-15.79	-15.14/-15.79	-15.74/-15.13	-15.19/-15.53	-15.84/-16.23	-15.41/-14.83	-15.14/-15.11	-15.68/-16.12	-15.04/-14.90	-15.06/-15.24	-14.52/-13.68	-15.00/-15.23	-14.66/-15.86	-13.87/-14.74	-14.66/-13.50
Θ(7.5°)	-13.24/-15.27	-15.54/-16.24	-15.21/-15.40	-15.74/-15.23	-14.34/-13.59	-12.35/-13.17	-13.94/-11.87	-12.12/-12.24	-13.04/-13.38	-15.07/-15.61	-14.98/-15.15	-15.85/-14.83	-14.47/-13.72	-13.23/-13.56	-13.97/-12.64	-12.12/-12.24	-12.72/-13.31	-12.71/-13.54	-14.12/-12.70	-13.55/-15.00	-12.53/-13.93	-13.81/-12.83	-13.00/-10.55	-11.92/-12.80
Θ(15°)	-10.86/-10.34	-10.24/-11.09	-10.02/-9.64	-9.53/-13.91	-12.93/-11.17	-9.75/-9.47	-8.81/-8.22	-8.72/-9.00	-9.11/-8.75	-8.03/-8.27	-8.87/-10.92	-12.02/-10.28	-12.70/-12.37	-10.29/-9.39	-10.81/-11.82	-11.95/-15.09	-15.62/-15.54	-14.70/-14.11	-13.52/-12.46	-12.27/-10.87	-9.24/-6.93	-5.24/-7.57	-10.34/-9.99	
Θ(22.5°)	-11.59/-10.46	-9.97/-10.33	-7.08/-8.31	-6.56/-4.46	-2.81/-2.64	-2.93/-3.79	-4.34/-4.97	-5.11/-4.61	-4.96/-6.04	-8.76/-10.87	-8.95/-9.34	-11.49/-12.64	-14.10/-15.74	-13.56/-9.65	-6.74/-6.59	-8.22/-6.92	-5.31/-3.40	-6.39/-8.89	-10.64/-8.48	-7.11/-8.97	-10.26/-11.59			
Θ(30°)	-6.73/-6.49	-8.91/-7.00	-5.61/-4.89	-5.85/-4.85	-6.65/-8.36	-7.95/-7.18	-7.62/-8.18	-7.75/-5.89	-6.80/-6.02	-4.62/-5.73	-6.01/-4.83	-4.70/-4.33	-4.91/-4.73	-7.53/-8.30	-7.17/-9.83	-9.11/-6.93	-7.17/-6.62	-7.68/-8.48	-8.57/-6.99	-5.36/-3.74	-4.11/-4.74	-7.47/-7.51	-5.46/-6.47	-9.64/-9.75
Θ(37.5°)	-13.34/-10.19	-8.79/-4.31	-4.11/-6.00	-4.71/-3.02	-2.87/-2.55	-3.49/-2.68	-3.99/-2.58	-3.37/-4.64	-3.94/-3.91	-5.26/-5.78	-6.89/-4.19	-12.19/-7.59	-4.85/-5.88	-5.14/-4.77	-9.33/-6.35	-7.25/-11.06	-10.04/-9.12	-13.34/-13.96	-9.92/-7.92	-10.68/-11.70	-5.23/-4.43	-4.50/-3.13	-8.22/-6.63	-4.55/-7.27
Θ(45°)	-3.56/-0.58	-5.59/-4.88	-3.83/-2.63	-1.91/-2.10	-2.45/-1.45	-1.53/-1.83	-1.28/-0.50	0.19/0.17	-2.51/-2.29	-1.82/-3.61	-2.69/-4.19	-5.92/-6.24	-4.78/-4.31	-4.75/-3.95	-6.33/-5.36	-6.94/-8.24	-7.90/-5.11	-2.94/-5.95	-8.96/-8.99	-4.50/-2.56	-2.73/-13.21	-5.07/-6.31	-7.20/-7.58	
Θ(52.5°)	-4.40/-4.43	-5.50/-6.75	-5.10/-5.54	-7.16/-8.36	-7.30/-4.75	-3.38/-4.04	-4.22/-5.05	-5.61/-3.37	-1.31/-3.54	-4.94/-4.91	-3.95/-4.36	-3.48/-7.41	-6.23/-9.38	-5.59/-6.86	-7.06/-5.78	-5.70/-8.06	-5.32/-4.98	-4.30/-2.99	-1.70/-2.15	-1.64/-0.89	-2.90/-4.63	-4.57/-6.84	-3.02/-3.01	-4.28/-8.80
Θ(60°)	-8.23/-8.48	-7.43/-7.24	-3.15/-3.69	-1.98/0.05	-0.21/-1.01	-0.78/-2.13	-1.54/-0.35	-0.46/-1.65	-4.67/-2.35	-2.48/-1.80	-2.44/-6.28	-6.00/-9.68	-8.07/-5.35	-5.16/-4.79	-4.31/-4.62	-3.94/-3.21	-2.76/-1.39	-2.55/-1.24	1.28/1.42	1.53/-2.63	-2.25/-4.32	-2.60/-8.17	-1.32/-4.31	-3.41/-6.17
Θ(67.5°)	-5.26/-6.42	-9.64/-5.42	-2.78/-3.55	-2.57/-2.73	-3.75/-2.63	-1.02/-3.23	-2.99/-0.74	-2.78/-1.88	-0.28/-1.90	-2.75/-1.35	-4.53/-5.06	-5.31/-12.80	-3.80/-4.10	-1.46/-2.37	-4.51/-3.79	-1.01/-1.57	-0.16/0.32	1.63/2.09	1.08/-3.92	-2.53/-2.69	-2.61/-2.92	-2.75/-2.39	-4.24/-5.10	
Θ(75°)	-7.72/-9.36	-12.22/-10.59	-5.85/-3.90	-3.35/-4.55	-1.00/-1.30	0.51/0.10	-0.66/-0.24	-1.50/-2.88	-3.09/1.12	-3.14/-4.33	-1.81/-1.72	-1.23/-5.64	-4.94/-3.42	-0.21/-2.22	-2.41/-1.97	-1.93/-0.96	0.73/-0.86	-2.35/0.97	1.04/1.76	-0.72/-1.86	-3.15/-0.10	-2.76/-2.49	-4.22/-4.21	-3.12/-3.14
Θ(82.5°)	-6.05/-6.36	-8.32/-10.77	-6.10/-4.59	-2.76/1.04	-1.05/-0.53	0.91/-1.12	-1.17/0.16	1.63/-0.98	-2.68/-1.02	-2.38/-1.16	-6.80/-15.10	-13.97/-5.75	-0.80/-1.44	-0.35/-2.17	-0.32/-1.65	-1.48/-2.09	2.04/0.64	0.28/3.11	2.14/2.01	2.01/0.50	-0.94/-1.12	0.63/-2.75	-0.71/-4.92	-1.89/-2.12
Θ(90°)	-2.28/-8.68	-12.04/-5.84	-2.16/-4.23	-3.85/-1.44	-4.78/-1.75	-1.59/-4.64	-5.55/-1.85	-2.01/-2.08	-3.26/-2.18	-2.20/0.10	-0.91/-0.97	-7.42/-6.76	-0.69/-2.93	2.30/-0.55	0.26/-1.53	-0.76/-2.01	1.58/1.92	1.67/1.47	1.98/1.72	1.39/1.86	0.82/0.95	2.96/-1.03	-2.28/-6.74	-0.07/-1.74
Θ(97.5°)	-1.72/-1.72	-6.66/-1.97	-0.74/-4.17	-5.91/-1.05	-6.36/-4.74	-2.62/-7.82	-7.27/-4.52	-2.62/-2.66	-2.24/-1.37	-3.18/-0.48	0.33/-12.79	-8.55/-2.03	-1.61/-3.73	1.27/1.21	-1.36/-1.48	0.16/-1.18	0.04/1.47	-0.74/1.04	-1.43/-1.58	-0.28/-1.74	1.70/-2.41	-3.14/-7.23	-0.10/-1.00	
Θ(105°)	-1.93/1.16	-2.44/-0.69	-3.29/-5.76	-8.99/-7.80	-9.47/-6.74	-10.51/-6.12	-8.91/-7.21	-6.79/-11.54	-7.85/-12.66	-9.40/-3.47	-3.70/-3.31	-10.42/-7.16	-0.30/-4.39	-1.94/-2.89	-1.76/-1.70	-0.46/-2.09	0.26/-1.88	0.02/-1.28	-0.14/-1.65	-1.62/-1.33	-2.88/-3.09	1.04/-3.25	-3.21/-7.32	-0.67/-2.13
Θ(112.5°)	-1.80/-0.57	-2.58/-3.62	-3.43/-10.02	-10.63/-7.04	-11.34/-7.37	-4.35/-3.72	-3.85/-3.50	-0.92/-2.29	-5.45/-9.79	-8.11/-7.01	-6.83/-5.83	-4.36/-3.64	-0.99/-2.15	0.26/-3.47	-5.01/-5.85	-2.07/-5.58	-0.82/-0.02	0.70/-0.50	-0.51/-2.41	-0.91/-1.84	-2.70/-4.05	0.28/0.12	-12.56/-4.95	-3.80/-0.84
Θ(120°)	-0.35/-0.97	-5.42/0.63	-9.65/-4.00	-9.69/-5.94	-2.54/-7.95	-9.35/-9.23	-7.11/-6.17	-4.77/-1.11	-3.13/-3.02	-6.58/-5.59	-3.24/-15.38	-7.01/-7.54	-6.00/-5.69	-5.74/-4.46	-5.90/-7.06	-6.84/-4.24	-3.06/-3.24	-5.83/-3.02	-2.30/-3.52	-3.09/-1.99	-5.59/-6.03	-4.60/-5.95	-6.17/-7.31	-0.89/-2.73
Θ(127.5°)	-9.19/0.29	-3.26/-8.43	-9.76/-7.84	-10.62/-5.01	-7.05/-5.62	-7.80/-2.58	-1.00/-8.73	-8.32/-7.22	-2.40/-4.97	-8.50/-9.96	-5.65/-10.99	-13.00/-5.49	-5.37/-0.43	-5.60/-7.86	-7.58/-9.03	-10.50/-7.11	-8.36/-9.73	-8.4						



Antenna Pattern of 2.4GHz and 5GHz UNII 1~3

Appendix D

Θ (120°)	-15.76/-11.70	-11.70/-10.99	-11.35/-8.52	-10.33/-9.59	-7.32/-7.74	-11.95/-10.64	-12.17/-11.27	-14.80/-11.78	-7.10/-5.68	-7.23/-8.26	-11.13/-7.71	-5.07/-6.76	8.91/-6.26	-5.94/-5.53	-6.38/-5.16	-6.71/-13.66	-2.87/-5.61	-9.91/-8.93	-10.09/-3.71	-5.69/-8.37	-5.39/-8.34	-7.00/-7.59	-5.16/-13.10	-13.20/-5.18
Θ (127.5°)	-3.86/-1.98	-9.46/-8.13	-11.96/-5.22	-5.53/-14.00	-12.46/-4.89	-9.35/-9.64	-10.83/-8.60	-10.71/-12.91	-13.29/-11.13	-5.68/-5.03	-7.66/-9.97	-11.99/-8.20	-5.59/-8.55	-9.05/-9.61	-7.41/-5.98	-8.80/-11.35	-14.62/-6.52	-15.40/-12.75	-7.90/-6.25	-7.44/-10.06	-5.96/-11.78	-10.46/-14.09	-5.75/-3.33	-5.61/-8.48
Θ (135°)	-11.26/-8.52	-10.80/-12.83	-10.10/-7.42	-6.25/-14.46	-12.39/-9.38	-5.30/-7.41	-5.43/-7.00	-7.20/-10.12	-8.94/-10.22	-15.08/-8.17	-6.56/-4.17	-5.18/-7.14	-5.61/-8.48	-6.42/-5.44	-5.50/-9.32	-8.93/-10.11	-6.43/-9.22	-6.13/-15.08	-7.76/-3.92	-9.61/-13.08	-8.64/-7.93	-4.19/-7.20	-9.45/-5.47	-7.91/-6.88
Θ (142.5°)	-12.67/-7.53	-6.45/-4.56	-7.05/-8.92	-8.62/-14.10	-9.87/-15.24	-7.12/-6.83	-3.90/-6.37	-6.11/-4.36	-4.86/-10.57	-8.69/-3.66	-4.55/-4.17	-5.85/-9.13	-8.65/-10.48	-15.92/-13.23	-9.16/-5.31	-9.16/-4.30	-3.04/-8.92	-9.33/-11.94	-11.12/-3.83	-3.46/-12.65	-8.47/-9.35	-8.71/-8.51	-10.59/-9.19	-7.60/-8.63
Θ (150°)	-5.69/-3.86	-6.23/-5.96	-9.39/-10.37	-12.66/-13.04	-9.76/-8.63	-8.03/-8.83	-6.37/-5.31	-6.52/-5.54	-7.50/-10.03	-8.03/-5.07	-4.27/-4.67	-3.52/-3.38	-5.03/-5.04	-4.18/-3.97	-5.15/-6.97	-2.23/-2.27	-6.39/-5.92	-12.30/-10.77	-7.19/-6.12	-5.91/-9.16	-11.10/-10.35	-10.44/-11.84	-15.38/-12.57	-13.09/-11.10
Θ (157.5°)	-6.64/-8.29	-11.44/-13.50	-11.32/-9.27	-7.03/-5.35	-5.93/-7.38	-4.66/-3.58	-4.94/-7.08	-10.65/-8.00	-5.59/-4.76	-6.08/-7.41	-9.70/-7.22	-6.33/-6.10	-7.29/-5.72	-3.76/-2.08	-2.96/-7.47	-4.04/-5.86	-10.84/-9.79	-10.61/-9.56	-5.58/-4.12	-6.18/-12.35	-9.54/-5.67	-7.55/-9.07	-9.27/-7.68	
Θ (165°)	-13.05/-12.13	-9.66/-6.08	-5.33/-4.45	-5.47/-6.96	-9.19/-9.19	-6.69/-6.46	-7.73/-6.83	-5.47/-5.46	-4.93/-4.44	-3.73/-3.55	-3.85/-4.97	-5.95/-6.77	-7.68/-8.51	-9.28/-8.20	-6.95/-7.23	-9.56/-14.29	-12.20/-9.91	-8.15/-5.71	-4.18/-4.25	-5.65/-6.32	-6.26/-7.65	-10.11/-8.87	-8.58/-10.94	-10.32/-11.09
Θ (172.5°)	-10.76/-10.81	-8.97/-9.74	-9.31/-9.41	-13.27/-15.21	-14.79/-11.70	-10.15/-8.32	-6.90/-6.13	-5.91/-6.03	-6.25/-6.81	-6.90/-6.59	-6.78/-6.15	-6.10/-6.65	-7.03/-7.92	-8.45/-8.90	-8.08/-7.53	-8.07/-8.57	-10.23/-11.19	-9.76/-8.96	-9.07/-11.01	-13.90/-13.58	-10.46/-7.39	-6.45/-6.14	-7.62/-7.19	-11.73/-13.46
Θ (180°)	-15.09/-15.57	-15.64/-14.95	-15.70/-15.25	-15.20/-15.50	-15.39/-13.56	-13.25/-13.50	-12.92/-13.38	-13.63/-14.18	-13.66/-13.01	-13.14/-12.55	-14.09/-13.76	-14.09/-15.42	-15.20/-13.14	-12.19/-11.51	-10.96/-11.62	-13.25/-13.94	-12.28/-10.76	-10.22/-9.93	-10.24/-11.64	-13.46/-12.52	-10.50/-10.17	-9.42/-10.85	-13.62/-13.81	
Freq(Hz)	5.63GPol.	TotalAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-12.10/-10.51	-10.63/-9.05	-10.24/-10.14	-10.49/-12.44	-11.45/-11.02	-11.37/-9.97	-9.69/-9.41	-10.48/-8.85	-9.96/-10.69	-11.76/-11.69	-10.62/-11.46	-11.61/-12.06	-12.74/-14.26	-14.41/-14.59	-12.14/-12.82	-12.85/-12.67	-13.01/-12.27	-10.49/-10.23	-10.69/-10.90	-9.99/-9.94	-9.91/-10.26	-9.55/-10.26	-11.23/-11.03	
Θ (7.5°)	-11.66/-13.38	-12.87/-13.84	-13.86/-13.40	-12.85/-13.53	-13.73/-12.41	-12.02/-9.57	-8.74/-8.93	-9.42/-8.17	-8.61/-8.05	-8.16/-7.95	-7.81/-7.87	-8.61/-8.75	-9.05/-8.64	-8.31/-9.52	-9.83/-12.20	-10.25/-8.32	-13.01/-11.85	-9.80/-10.32	-9.76/-9.11	-9.89/-9.94	-9.50/-11.49	-11.72/-10.29	-11.19/-10.57	-12.48/-12.97
Θ (15°)	-11.51/-11.10	-8.40/-6.24	-7.80/-7.49	-9.90/-12.52	-10.89/-8.85	-7.80/-7.49	-7.24/-6.48	-12.16/-14.12	-13.06/-10.88	-9.62/-8.24	-8.78/-8.43	-8.02/-7.38	-7.92/-7.31	-7.87/-8.04	-10.33/-10.53	-10.77/-7.63	-6.42/-8.46	-8.05/-6.56	-7.25/-7.58	-8.76/-10.56	-12.78/-13.91	-14.02/-11.13	-11.28/-9.73	-10.78/-12.14
Θ (22.5°)	-8.83/-5.90	-8.23/-8.07	-7.10/-5.31	-6.97/-11.88	-12.28/-6.77	-5.29/-6.58	-6.95/-6.01	-5.80/-5.97	-10.52/-9.53	-8.62/-10.55	-11.83/-11.45	-12.03/-9.45	-7.98/-7.91	-8.28/-9.91	-7.98/-7.63	-8.77/-11.52	-9.70/-6.06	-5.50/-7.58	-7.26/-7.00	-6.09/-5.53	-5.62/-5.49	-3.86/-3.66		
Θ (30°)	-6.99/-5.60	-4.99/-7.08	-9.67/-5.47	-4.47/-5.27	-6.57/-6.51	-6.10/-6.75	-5.27/-4.70	-9.22/-6.65	-5.05/-5.98	-4.97/-4.72	-8.25/-7.69	-4.57/-3.86	-4.64/-3.92	-3.79/-3.50	-4.55/-8.24	-12.02/-5.43	-6.39/-14.67	-4.14/-2.63	-6.67/-8.55	-4.53/-5.23	-12.01/-10.90	-8.59/-7.78	-6.65/-8.07	-9.32/-9.09
Θ (37.5°)	-3.16/-3.14	-1.61/-2.58	-2.14/-3.54	-2.81/-5.59	-4.08/-3.08	-4.88/-7.49	-6.95/-4.14	-3.84/-4.92	-6.42/-5.92	-6.76/-8.14	-4.72/-4.24	-5.06/-7.54	-3.47/-3.02	-2.85/-2.88	-4.13/-5.97	-10.15/-4.99	-5.77/-6.40	-3.08/-8.88	-4.56/-7.51	-9.28/-5.27	-5.26/-6.93	-5.26/-2.43	-2.51/-3.58	-4.25/-2.38
Θ (45°)	-2.51/-2.22	-0.71/-3.07	-7.13/-4.00	-4.28/-2.47	-3.90/-7.60	-5.48/-2.86	-4.71/-4.29	-3.82/-4.43	-5.61/-1.92	-4.17/-5.51	-5.82/-5.19	-3.89/-3.48	-5.03/-4.14	-2.65/-2.37	-3.68/-6.28	-4.82/-3.71	-8.23/-4.31	-2.57/-5.99	-3.08/-2.27	-0.93/-2.14	-3.93/-7.90	-6.39/-2.21	-13.22/-1.53	
Θ (52.5°)	-6.74/-8.24	-9.79/-9.21	-6.62/-1.61	-1.30/-3.61	-2.22/-4.30	-5.18/-2.85	-4.26/-5.07	-4.53/-3.11	-3.43/-3.42	-1.86/-2.20	-1.13/-2.59	-1.69/-1.07	0.52/0.80	-0.13/-1.31	-1.09/-0.56	-1.95/-6.17	-2.62/-5.25	-2.66/-5.52	-2.13/-2.73	0.25/-4.23	-3.73/-1.80	-0.01/-3.04	-2.96/-10.16	-7.78/-5.86
Θ (60°)	3.70/-1.73	1.98/2.63	1.55/-0.33	2.30/-6.54	-1.14/-2.33	-4.64/-5.12	-1.89/-6.11	-3.28/-3.02	-3.17/-2.33	-1.49/-6.12	-0.24/-0.34	-2.64/-6.51	1.39/-1.96	1.06/0.60	-1.05/-1.28	-3.62/-2.19	-3.62/-0.29	-3.72/-0.59	-1.15/-1.79	-5.67/-4.69	-1.90/-4.12	0.35/-0.99	-1.02/0.13	1.69/3.56
Θ (67.5°)	0.28/0.47	-2.17/-0.41	-2.14/-0.89	-3.20/-4.88	-6.51/-2.53	-5.93/-3.86	-4.80/-3.76	-3.83/-3.20	-2.56/-5.16	-0.70/-1.34	-0.70/-1.44	-1.12/-2.70	-2.61/-1.22	-1.30/-2.05	-1.49/-2.35	-3.96/-2.19	-2.32/-0.71	-1.49/-1.08	-3.08/-3.50	-2.04/-1.50	0.50/-5.97	-0.82/-1.19	-0.36/-2.04	
Θ (75°)	-0.21/-0.68	-0.57/-1.70	-0.91/-1.21	0.82/-2.50	-2.44/-3.88	-2.51/-4.07	-6.44/-2.36	-1.06/-4.73	-4.31/-4.49	0.61/-1.46	-0.56/-1.07	-0.95/-1.31	-1.68/-0.76	-1.13/-0.77	-1.61/-2.16	-2.95/-3.03	-3.75/-3.32	0.69/-5.54	-2.48/-1.92	-4.22/-2.54	-1.13/-2.65	-4.34/-4.08	0.19/-1.33	1.37/-0.36
Θ (82.5°)	-1.26/-0.74	-1.26/-1.17	-3.65/0.60	-2.76/-1.54	-1.47/-3.92	-0.35/-3.14	-4.86/-2.16	-1.57/-3.83	-3.27/-2.09	0.19/2.52	-0.35/-1.71	1.60/2.48	0.78/0.25	0.44/2.16	0.00/0.30	-1.02/0.88	-0.40/-1.17	-1.26/-2.63	-2.06/-1.13	-2.07/-2.48	-6.31/-2.02	-6.81/-9.01	-2.21/-6.35	-4.29/-3.07
Θ (90°)	-0.31/-1.45	0.98/0.40	-0.67/-1.21	-2.76/-2.17	-1.36/-2.69	-3.13/-3.07	-7.48/-2.17	-1.89/-7.53	-0.40/-2.78	-0.02/-1.19	-1.35/-1.30	1.09/3.33	1.88/2.23	1.42/2.16	-0.43/-0.02	0.73/0.34	1.70/-1.33	-5.08/-1.43	-0.22/0.35	0.81/-1.76	0.23/-1.70	-1.78/-6.01	0.34/-4.88	-2.08/0.90
Θ (97.5°)	-7.39/-7.19	-4.44/-6.13	-5.88/-1.62	-5.62/-6.99	-8.68/-5.97	-4.27/-7.07	-8.99/-3.67	-5.16/-9.70	-2.98/-2.43	0.26/0.63	-2.60/-2.85	-2.13/0.71	-1.93/-1.19	-0.81/-2.87	-2.33/-4.94	1.54/-2.82	-3.04/-2.14	-3.94/-7.72	-1.24/-1.55	-0.54/-2.08	0.19/-2.93	-3.95/0.37	-2.15/-8.86	-13.66/-9.21
Θ (105°)	-8.91/-6.51	-4.26/-5.77	-1.65/-5.20	-6.91/-9.30	-9.66/-8.09	-9.42/-5.24	-5.96/-4.31	-4.93/-8.57	-3.91/-4.15	-0.79/-0.50	-2.25/-1.28	0.09/0.77	-2.25/-1.65	-0.92/0.53	-1.24/-2.26	-5.00/-1.37	-3.48/-1.77	-9.34/-1.43	-6.16/-2.34	-0.71/-9.82	-5.06/-4.77	-8.92/-5.55	-8.03/-2.22	-3.66/-8.57
Θ (112.5°)	-3.41/-4.20	-2.51/-5.82	-4.19/-4.73	-6.73/-5.00	-4.82/-8.06	-10.16/-7.32	-4.14/-8.55	-6.15/-4.54	-5.02/-3.04	-4.55/-1.88	-4.28/-2.73	-1.20/-0.03	-1.31/-1.35	0.06/0.56	-2.55/-3.07	-0.26/-2.33	-2.33/-4.47	-2.85/-5.20	-7.71/-5.39	-0.16/-6.87	-4.57/-5.42	-5.61/-0.92	0.62/-1.98	-3.76/-2.35
Θ (120°)	-11.25/-7.72	-6.85/-15.47	-13.29/-13.05	-12.11/-5.91	-8.25/-10.57	-9.60/-11.87	-11.55/-8.18	-9.22/-6.61	-8.49/-7.44	-11.33/-8.52	-6.13/-10.31	-4.92/-7.18	-8.07/-6.06	-0.27/-1.48	-7.20/-9.34	-6.43/-5.59	-5.16/-2.31	-5.92/-10.12	-5.28/-5.62	-1.88/-4.27	-1.15/-5.83	-5.15/-9.57	-2.78/-6.82	-7.81/-2.96
Θ (127.5°)	-4.40/-3.21	-7.75/-5.37	-8.63/-5.65	-10.23/-8.18	-9.72/-7.50	-9.45/-11.41	-10.25/-10.65	-14.17/-14.12	-11.52/-10.23	-7.81/-14.13	-15.38/-8.65	-11.17/-9.52	-9.55/-12.53	-12.40/-9.36	-6.39/-8.26	-10.69/-7.88	-6.74/-6.15	-15.49/-12.79	-5.15/-7.95	-7.15/-10.28	-6.67/-8.87	-8.29/-8.02	-5.21/-5.23	-5.97/-7.55
Θ (135°)	-11.18/-13.94	-15.41/-9.40	-7.76/-6.69	-6.80/-14.43	-8.18/-11.49	-5.52/-4.19	-4.03/-7.91	-6.57/-12.47	-9.10/-10.95	-6.24/-6.14	-4.30/-9.15	-9.10/-7.75	-5.61/-8.59	-7.14/-10.69	-6.27/-8.42	-8.11/-9.17	-9.49/-10.23	-8.64/-9.77	-8.93/-6.65	-9.73/-11.39	-4.89/-5.34	-9.39/-7.85	-6.95/-12.30	
Θ (142.5°)	-7.53/-8.24	-11.48/-6.27	-6.88/-4.50	-6.49/-11.79	-13.83/-4.57	-6.28/-6.62	-5.43/-2.65	-1.57/-7.79	-3.32/-7.73	-6.64/-5.51	-5.55/-2.40	-4.56/-2.47	-3.47/-5.10	-4.11/-2.77	-5.25/-10.13	-7.24/-5.55	-3.31/-3.51	-10.38/-10.15	-6.65/-10.94	-2.86/-3.09	-15.54/-6.86	-8.55/-10.73	-9.10/-5.63	-7.32/-10.89
Θ (150°)	-5.48/-5.57	-8.53/-7.27	-11.27/-12.15	-9.68/-8.46	-11.73/-7.44	-6.97/-3.99	-4.81/-5.50	-3.80/-4.82	-5.77/-5.84	-4.95/-4.57	-3.90/-2.02	-1.86/-2.69	-2.50/-2.27	-3.13/-3.82	-3.28/-3.13	-2.80/-3.01	-3.87/-4.15	-5.53/-10.17	-6.79/-5.32	-7.13/-4.00	-4.30/-7.49	-7.96/-10.18	-12.89/-14.72	-14.05/-12.01
Θ (157.5°)	-7.48/-8.11	-13.33/-12.80	-7.62/-6.96	-5.74/-7.01	-4.09/-3.94	-7.87/-8.03	-6.96/-5.62	-3.85/-4.14	-6.34/-6.84	-5.60/-3.20	-2.73/-2.97	-4.86/-7.25	-8.31/-8.39	-6.45/-2.67	-3.33/-4.20	-3.65/-2.82	-5.44/-9.03	-5.82/-4.16	-4.81/-7.70	-14.65/-6.30	-3.32/-4.43	-10.47/-15.18	-11.68/-11.32	-10.57/-7.47
Θ (165°)	-9.25/-9.56	-7.74/-6.14	-5.93/-5.59	-6.92/-4.75	-3.44/-3.61	-5.29/-6.91	-9.09/-8.72	-5.45/-3.20	-2.43/-2.65	-3.08/-4.10	-5.29/-7.25	-9.47/-9.55	-6.29/-6.47	-8.23/-6.74	-0.72/-6.60	-6.12/-6.02	-8.17/-7.13	-5.03/-5.39	-8.54/-9.86	-6.42/-4.24	-4.33/-6.74	-7.20/-8.76	-8.00/-8.87	
Θ (172.5°)	-10.48/-12.35	-12.68/-13.35	-12.73/-14.11	-11.12/-9.37	-8.80/-7.03	-5.68/-6.54	-6.49/-7.85	-8.67/-9.84	-8.38/-7.32	-5														

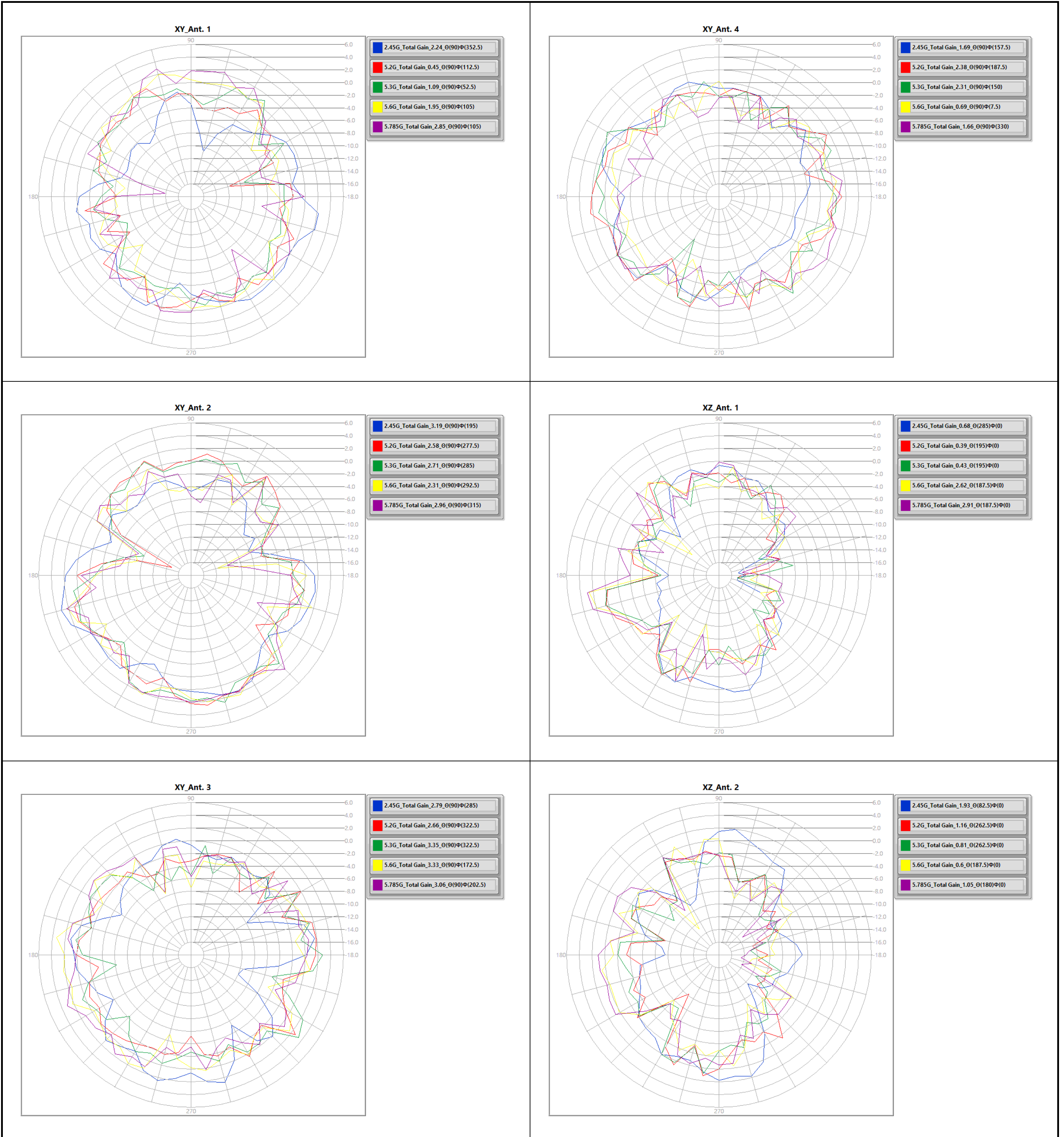


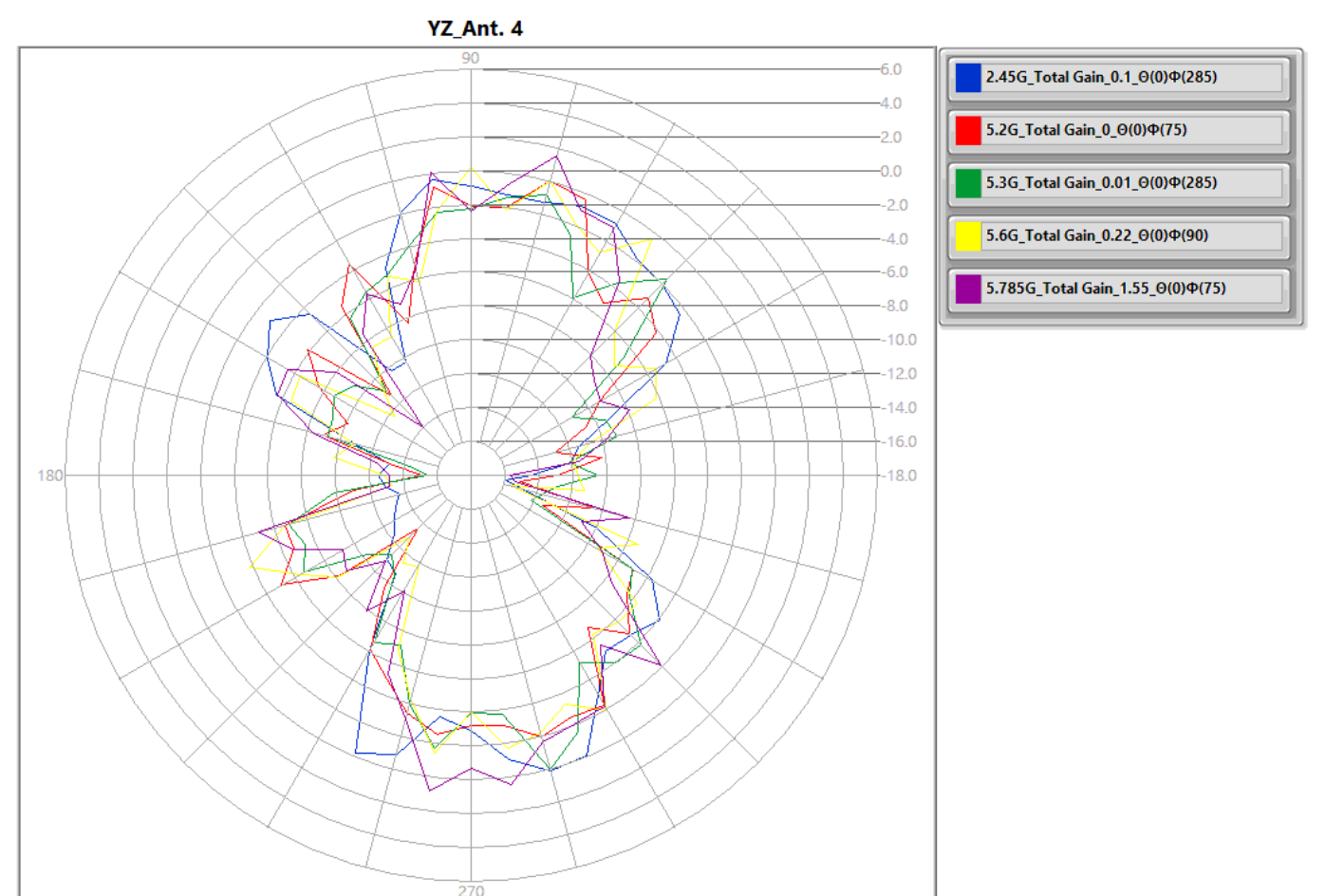
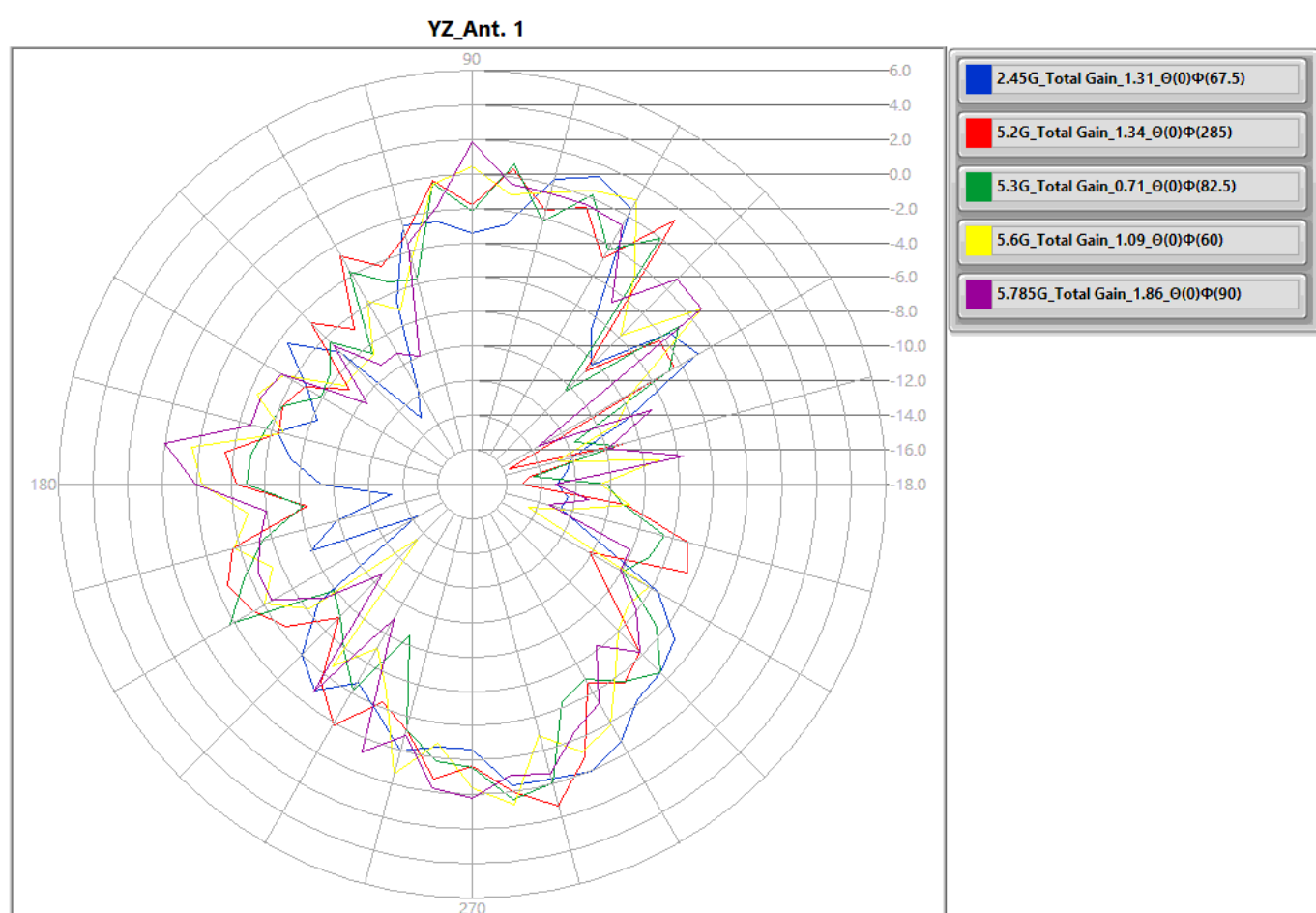
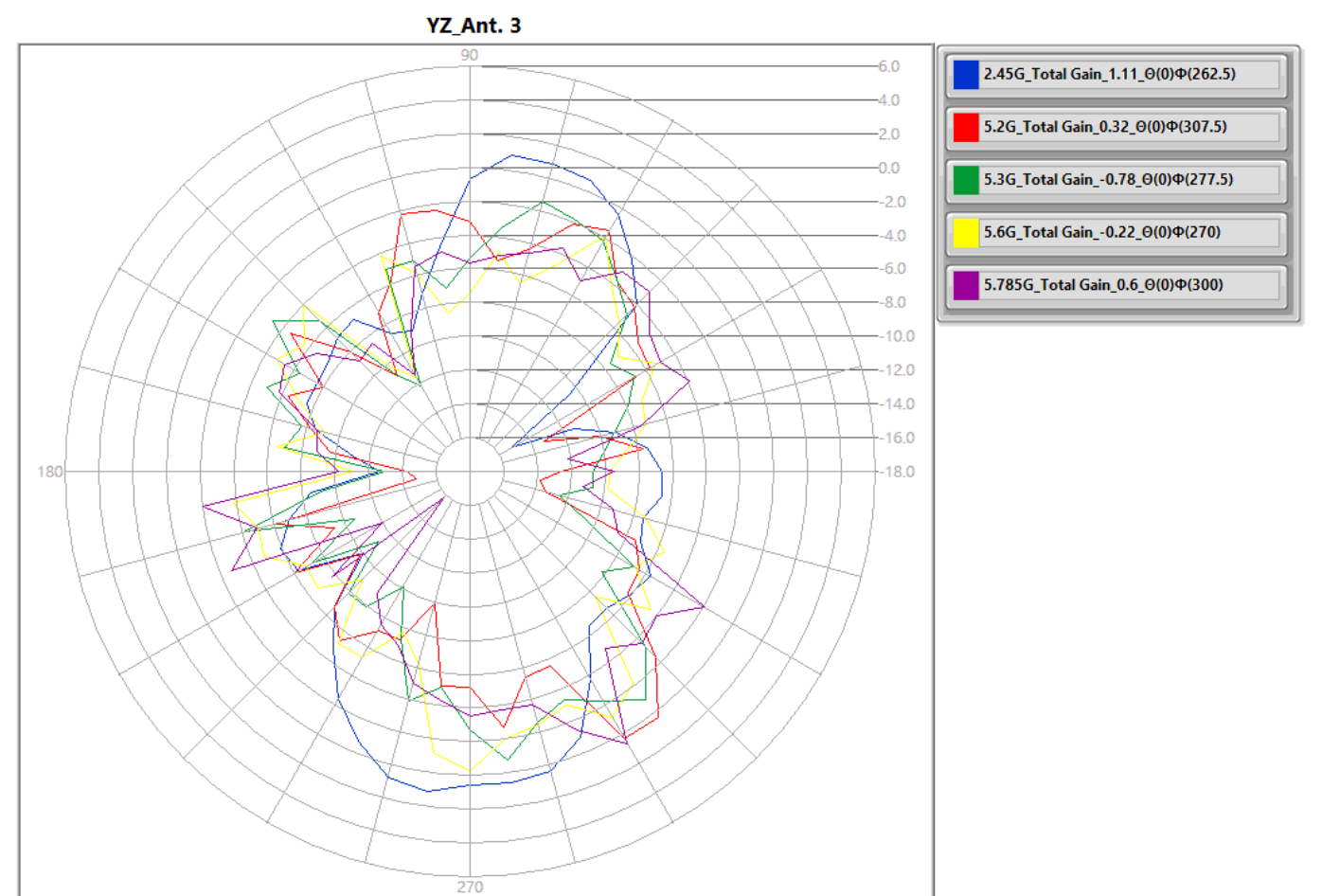
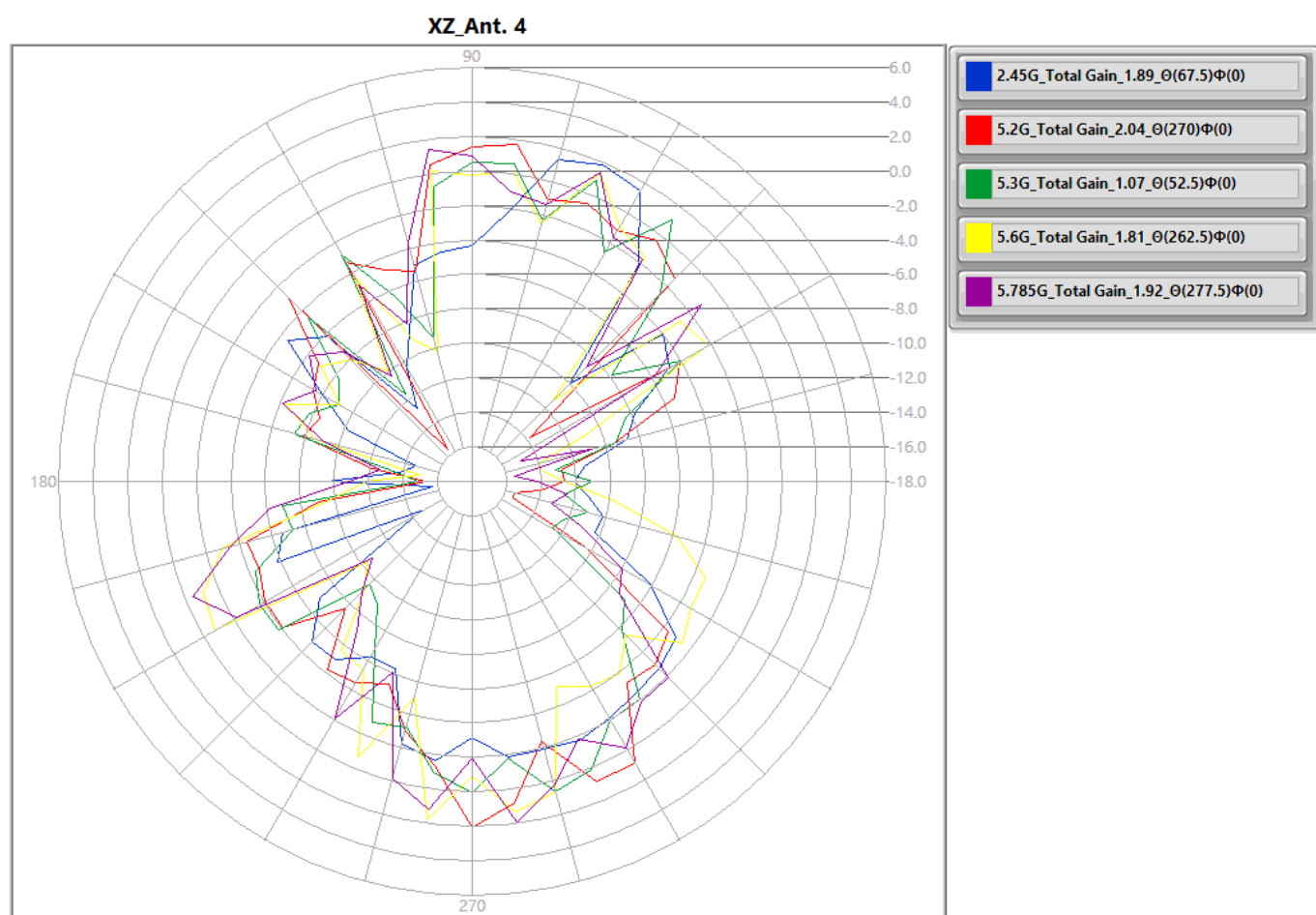
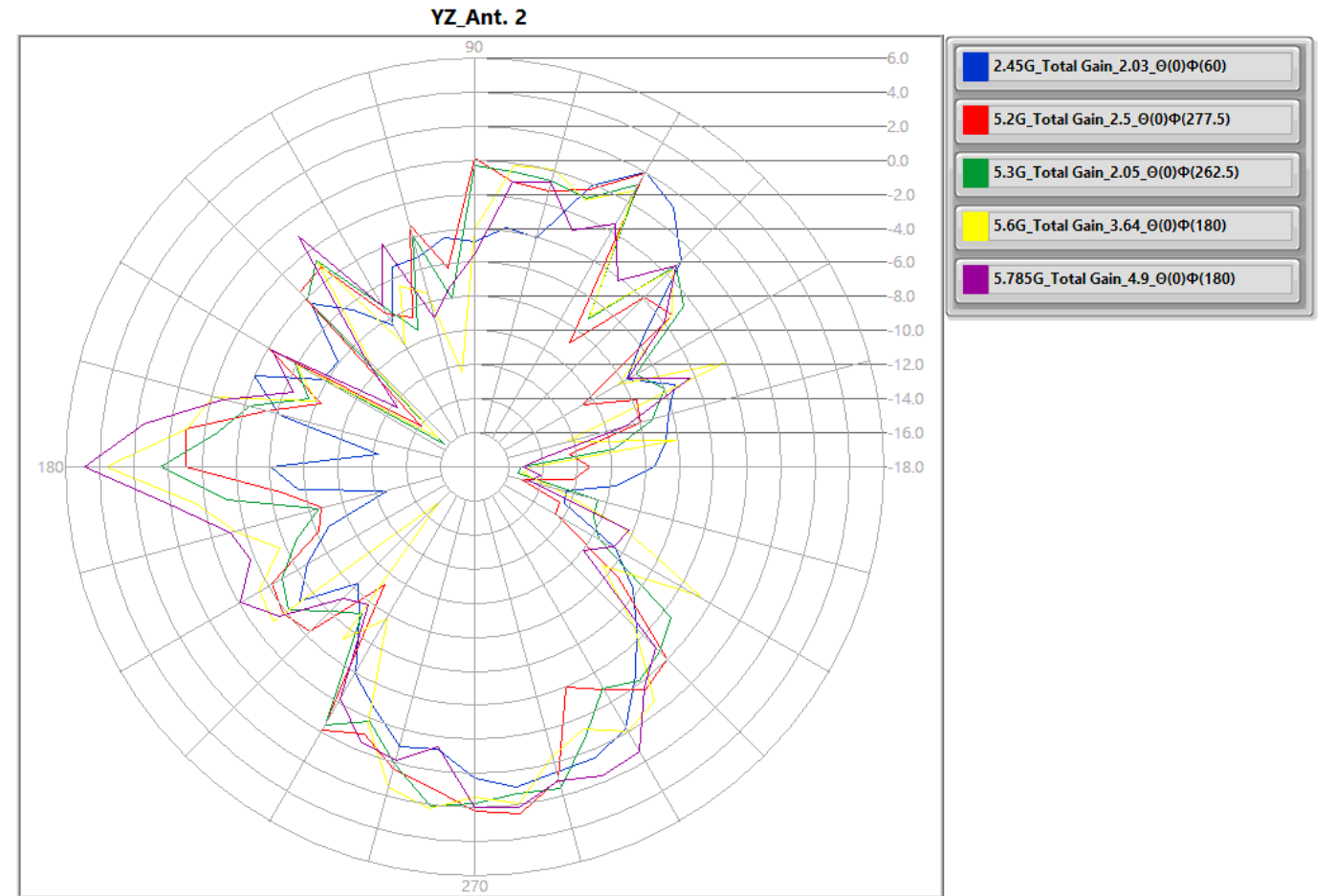
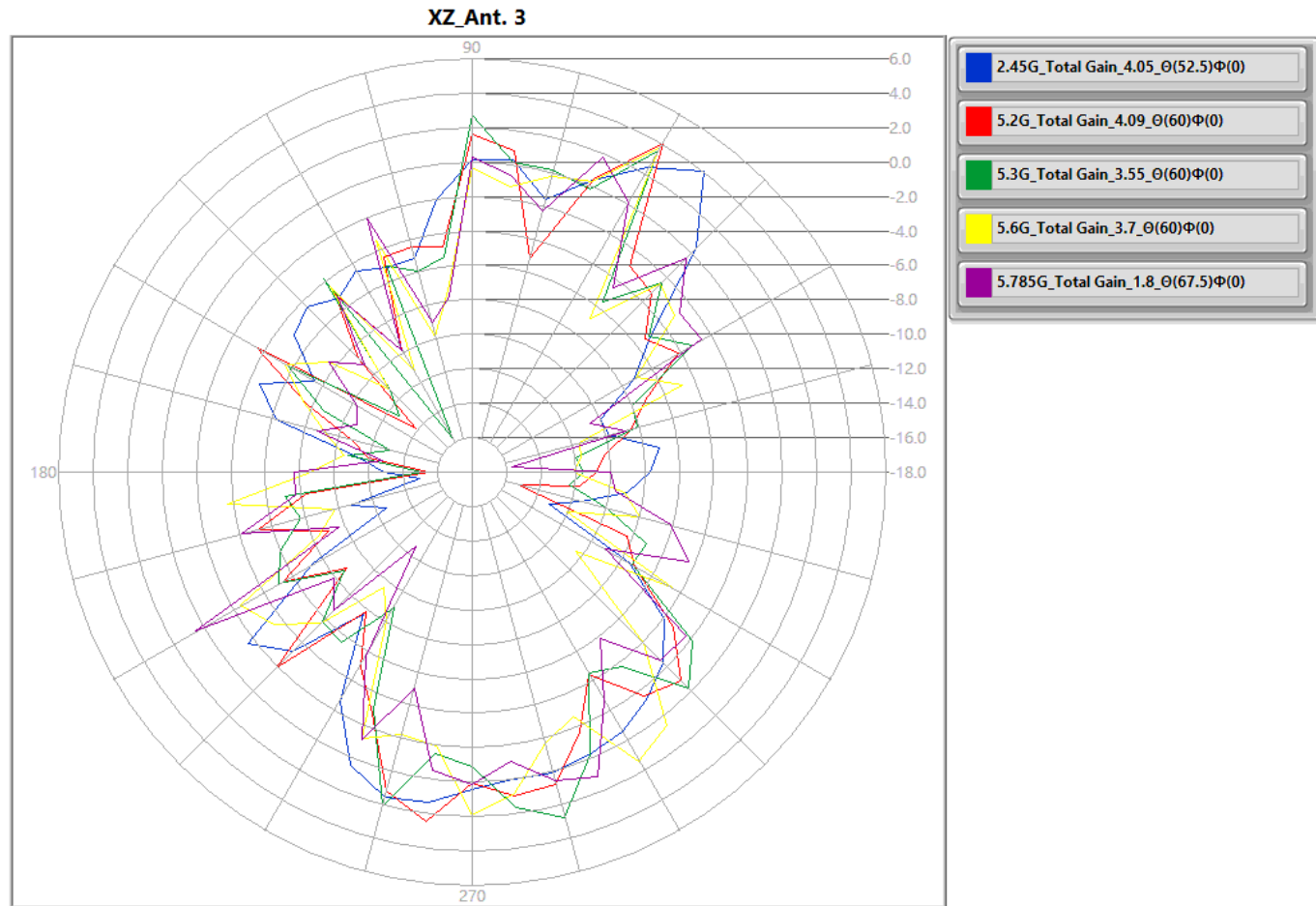
Antenna Pattern of 2.4GHz and 5GHz UNII 1~3

Appendix D

Θ (172.5°)	-12.19/-13.12	-12.49/-11.44	-9.78/-9.58	-10.13/-10.81	-12.81/-14.51	-14.98/-14.71	-13.35/-11.01	-9.36/-8.65	-7.84/-6.50	-6.03/-5.71	-5.87/-6.51	-7.76/-8.56	-8.98/-6.19	-5.82/-7.19	-10.47/-13.74	-11.80/-10.34	-11.45/-12.59	-12.68/-10.99	-10.98/-12.87	-15.71/-15.49	-15.29/-10.92	-9.58/-9.44	-10.11/-11.78	-12.57/-11.89
Θ (180°)	-15.35/-15.76	-15.34/-16.12	-14.97/-14.51	-15.58/-15.33	-15.90/-15.72	-14.89/-15.69	-15.12/-15.53	-14.98/-15.36	-14.87/-15.51	-15.06/-14.70	-14.09/-13.80	-12.74/-12.25	-11.55/-10.77	-12.15/-11.77	-12.58/-12.88	-14.96/-15.51	-15.96/-15.91	-15.21/-13.30	-12.64/-11.91	-14.26/-14.24	-11.34/-11.11	-11.72/-13.19	-15.38/-15.33	-15.12/-15.91
Freq(Hz)	5.3G/Pol.	Total/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-11.05/-11.79	-10.92/-11.90	-12.16/-11.55	-10.69/-10.56	-10.95/-10.12	-10.42/-10.66	-10.48/-9.84	-10.30/-12.11	-12.01/-10.03	-11.00/-11.73	-11.12/-11.14	-10.35/-10.68	-10.43/-10.18	-9.80/-10.03	-10.38/-9.61	-9.45/-9.25	-9.68/-10.06	-10.55/-11.09	-10.34/-8.79	-9.77/-13.26	-11.54/-12.25	-12.22/-11.66	-12.73/-12.14	-12.77/-10.51
Θ (7.5°)	-13.16/-12.68	-12.23/-10.41	-10.90/-10.66	-9.64/-9.52	-9.54/-9.12	-9.61/-11.03	-12.15/-12.67	-13.32/-12.39	-13.99/-15.71	-12.73/-14.78	-15.90/-13.53	-15.23/-14.02	-12.58/-11.66	-11.93/-11.93	-13.01/-11.61	-9.94/-10.06	-11.05/-12.60	-12.74/-13.07	-12.80/-12.57	-12.75/-12.16	-14.10/-13.42	-13.74/-14.97	-13.48/-14.86	-12.45/-14.84
Θ (15°)	-9.39/-10.45	-11.28/-12.87	-13.69/-11.95	-11.61/-10.83	-9.47/-9.11	-8.87/-8.81	-9.07/-10.07	-11.10/-11.15	-10.17/-9.41	-8.25/-8.13	-8.27/-8.65	-10.15/-10.79	-11.10/-9.81	-9.20/-11.76	-10.60/-12.50	-10.35/-9.31	-10.42/-12.74	-13.74/-14.13	-13.64/-12.53	-10.36/-9.59	-9.49/-7.95	-8.96/-9.60	-9.38/-7.66	-7.80/-6.96
Θ (22.5°)	-8.37/-9.36	-9.34/-9.19	-11.27/-12.65	-14.52/-15.92	-12.68/-8.98	-8.30/-9.30	-9.37/-8.58	-7.56/-8.11	-9.27/-11.55	-10.78/-9.67	-10.97/-11.60	-12.34/-15.00	-12.25/-11.37	-9.64/-12.53	-15.46/-15.28	-11.38/-9.91	-10.62/-10.35	-10.41/-13.55	-14.16/-14.43	-11.21/-9.08	-10.06/-10.96	-9.28/-8.92	-6.39/-6.21	-7.13/-8.41
Θ (30°)	-4.03/-3.45	-4.81/-4.42	-4.28/-5.46	-5.71/-6.75	-12.93/-13.28	-8.47/-10.17	-11.16/-7.86	-7.78/-9.08	-11.69/-12.60	-11.90/-9.63	-14.44/-12.36	-14.55/-14.38	-12.60/-9.28	-10.48/-11.94	-11.08/-12.77	-14.86/-12.36	-11.59/-14.75	-10.14/-7.40	-6.98/-6.17	-6.21/-7.54	-7.33/-5.65	-4.65/-4.30	-5.17/-6.20	-6.91/-5.92
Θ (37.5°)	-7.82/-6.55	-5.02/-7.25	-6.02/-4.90	-6.42/-5.18	-5.35/-5.27	-6.38/-6.35	-6.65/-5.64	-7.25/-9.56	-11.42/-9.09	-8.14/-8.60	-10.22/-10.41	-10.48/-10.10	-6.83/-5.07	-8.42/-7.50	-9.59/-8.78	-7.30/-7.91	-6.07/-8.75	-6.28/-7.76	-6.23/-7.40	-5.98/-6.10	-6.81/-6.33	-8.08/-9.29	-9.24/-11.49	-9.05/-7.68
Θ (45°)	-2.58/-2.10	-4.06/-4.48	-6.33/-5.48	-4.85/-4.76	-4.58/-5.02	-5.33/-3.16	-1.61/-2.32	-2.96/-3.71	-5.56/-6.03	-6.26/-4.67	-6.84/-6.88	-5.30/-5.06	-5.72/-4.07	-5.67/-5.65	-3.96/-5.06	-2.67/-6.47	-3.34/-3.23	-1.82/-2.92	-3.82/-5.61	-9.28/-5.31	-5.17/-6.92	-5.53/-6.67	-8.69/-7.09	-4.91/-3.94
Θ (52.5°)	1.07/0.93	-0.43/-0.36	0.08/-0.24	-2.66/-1.81	-2.45/-4.21	-4.21/-5.99	-3.70/-1.71	-2.61/-1.97	-2.98/-3.52	-5.18/-3.66	-0.96/-1.20	-2.05/-1.90	-4.55/-6.63	-1.57/-2.15	-3.45/-5.63	-2.97/-2.80	-2.22/-5.69	-4.02/-4.51	-1.15/-1.60	-4.72/-1.88	-1.27/-0.34	-0.04/-0.49	-0.04/-0.92	0.24/0.57
Θ (60°)	-2.67/-1.25	-1.26/-3.48	-2.93/-1.93	-0.18/-1.08	-2.31/-3.00	-3.54/-4.37	-5.90/-2.36	-3.55/-2.87	-3.65/-3.01	-2.47/-3.03	-2.13/-2.70	-1.90/-2.22	-2.01/-2.52	-3.43/-3.62	-3.56/-2.54	-4.88/-3.70	-2.54/-3.58	-3.79/-2.95	-5.22/-4.20	-3.32/-2.88	-2.78/-3.90	-2.28/-1.75	-4.04/-3.91	-5.07/-2.44
Θ (67.5°)	0.86/-0.30	-1.33/-0.53	-1.49/-2.64	-2.33/-2.63	-1.68/-2.25	-0.04/-1.06	-2.62/-0.40	-1.12/-1.91	-1.02/-2.08	-2.33/-1.02	-0.07/-0.27	1.75/1.07	0.12/-0.18	-1.77/-1.31	-1.80/-0.98	-2.47/-4.67	-0.79/-2.22	-1.56/-2.41	-3.18/-0.83	-0.58/-1.33	-0.73/0.41	0.54/-0.92	-0.68/-0.39	-0.88/-0.39
Θ (75°)	-2.30/-1.03	-2.25/-2.70	-1.35/-2.33	-0.75/-1.69	-3.35/-0.09	-3.36/-1.77	-0.88/-1.59	-0.94/-0.97	1.22/-1.46	-0.36/-0.39	-0.33/-2.06	-0.03/0.07	0.63/0.49	-0.63/-2.52	0.69/-1.57	-0.39/-3.74	-1.26/-1.54	-2.29/0.54	-1.00/-0.47	-3.42/-1.27	-2.67/-3.81	-3.89/-0.60	-0.36/-4.16	-4.22/-2.25
Θ (82.5°)	0.61/2.02	0.56/2.18	-1.32/1.07	-0.00/-0.18	-1.87/-1.41	-5.97/-3.32	-1.40/-1.97	-6.50/-4.88	-1.48/-3.33	-1.06/-0.41	-0.05/-2.08	-0.13/1.98	-1.83/-1.31	-4.78/-3.80	-0.44/-4.14	-4.60/-2.20	-1.85/-1.65	-0.39/-2.07	-3.79/-4.35	-2.07/-2.70	-6.05/-1.50	-4.81/-2.89	1.06/1.52	1.30/0.16
Θ (90°)	0.50/-1.06	-1.45/-1.12	0.49/-2.36	-2.25/-0.31	-1.77/-4.95	-0.78/-2.25	-2.25/-0.28	-1.77/-6.02	-1.59/-4.02	-2.62/-0.52	1.36/1.53	0.06/1.11	-0.49/-2.12	0.60/-1.04	-0.58/-2.68	-10.25/-0.90	-0.73/-4.65	-3.96/-6.15	-1.43/-2.80	-3.14/-1.16	-1.94/-3.75	-0.96/-3.13	-0.89/0.52	-0.89/0.52
Θ (97.5°)	-0.73/-0.13	-5.22/-0.91	0.52/-0.92	-0.65/0.09	-2.93/-3.72	-4.04/-1.58	-2.35/-3.35	-4.41/-0.14	0.55/-2.11	-1.37/-1.63	-2.51/-1.66	-2.34/-3.04	-1.02/-3.67	-0.27/-6.34	-0.17/-1.86	-3.02/-13.07	-0.31/-0.78	-0.30/-2.64	-0.25/-0.92	-3.92/-1.13	-1.32/-1.95	0.04/-1.16	-1.19/-0.61	-1.19/-0.61
Θ (105°)	-9.36/-9.47	-10.62/-3.61	-7.93/-4.02	-5.20/-3.06	-3.22/-5.20	-13.91/-4.26	-3.89/-5.63	-8.46/-9.47	-6.04/-6.01	-4.04/-3.09	-1.76/-1.68	-3.68/-6.35	-3.22/-3.04	-3.02/-5.32	-2.95/-4.96	-4.80/-5.46	-3.11/-2.16	-9.75/-6.87	-3.97/-4.87	-1.36/-1.01	-10.54/-2.14	-3.82/-7.95	-2.93/-4.57	-3.99/-5.93
Θ (112.5°)	-6.42/-5.05	-3.49/-5.42	-6.12/-4.04	-4.09/-4.16	-4.95/-7.19	-4.25/-6.80	-5.16/-5.58	-5.17/-6.33	-6.86/-6.50	-5.68/-6.31	-2.02/0.04	-0.15/-1.97	-2.92/-1.50	-3.28/-1.86	-3.13/-0.08	-1.13/-7.37	-10.02/-6.86	-12.95/-5.68	-7.17/-6.77	-5.22/-6.72	-6.30/-4.97	-8.95/-8.71	-9.00/-11.90	-6.71/-11.43
Θ (120°)	-8.23/-5.93	-8.39/-5.01	-4.81/-2.99	-1.65/-4.36	-8.23/-5.89	-5.52/-10.08	-5.23/-5.45	-6.33/-5.09	-3.68/-2.96	-5.85/-7.09	-8.00/-7.40	-9.68/-9.32	-9.88/-3.60	-4.60/1.18	-6.56/-7.78	-6.31/-6.69	-6.34/-9.12	-6.56/-7.92	-8.58/-3.83	-6.90/-4.54	-2.62/-3.33	-1.13/-5.02	-5.85/-5.97	-5.85/-5.97
Θ (127.5°)	-11.65/-12.63	-10.09/-15.34	-12.20/-4.53	-5.74/-5.95	-12.67/-8.12	-15.29/-12.13	-6.26/-12.33	-7.46/-11.27	-12.52/-9.71	-7.85/-7.43	-7.95/-7.27	-7.57/-5.00	-8.99/-8.32	-9.91/-7.36	-10.32/-7.28	-4.72/-4.63	-8.80/-8.62	-9.87/-12.22	-10.55/-10.63	-7.54/-3.12	-9.17/-15.38	-6.50/-4.08	-14.01/-14.14	-10.84/-8.42
Θ (135°)	-4.46/-12.32	-5.10/-4.75	-5.49/-5.19	-9.94/-6.92	-9.21/-9.51	-7.04/-9.83	-10.98/-7.88	-12.81/-8.64	-15.30/-13.88	-11.52/-14.30	-14.36/-13.60	-9.87/-13.40	-9.58/-9.19	-10.23/-6.44	-7.07/-5.64	-7.69/-8.47	-10.89/-8.57	-8.62/-9.48	-11.37/-9.96	-9.87/-8.39	-10.74/-9.36	-8.73/-6.66	-9.07/-10.42	-3.59/-7.57
Θ (142.5°)	-8.23/-9.01	-5.39/-3.40	-1.37/-4.61	-4.98/-6.55	-4.29/-8.82	-15.42/-8.69	-9.28/-7.02	-6.32/-7.48	-10.38/-6.88	-5.67/-5.60	-2.38/-3.84	-3.26/-4.49	-0.83/-5.00	-4.07/-6.78	-8.43/-7.88	-9.78/-7.17	-10.49/-10.28	-13.38/-8.79	-10.25/-4.59	-8.31/-14.56	-13.29/-11.14	-10.14/-8.12	-6.28/-10.13	-14.92/-14.75
Θ (150°)	-8.11/-6.66	-3.23/-4.06	-5.60/-5.59	-5.37/-4.49	-2.88/-5.45	-7.42/-8.56	-6.83/-6.51	-6.69/-6.91	-4.95/-1.62	-0.31/-0.67	-2.53/-3.01	-2.71/-3.99	-3.72/-2.28	-1.89/-4.32	-6.43/-6.68	-5.77/-6.00	-9.34/-9.31	-7.69/-5.58	-6.59/-6.19	-8.54/-9.03	-7.78/-13.94	-9.19/-7.01	-7.18/-8.03	-10.70/-8.72
Θ (157.5°)	-7.75/-7.10	-5.70/-6.62	-6.34/-5.91	-5.21/-4.52	-4.42/-6.26	-6.00/-7.68	-9.17/-13.3	-7.67/-8.58	-8.51/-8.02	-6.62/-5.73	-6.67/-6.33	-5.71/-4.81	-4.37/-5.44	-4.15/-3.08	-3.78/-5.93	-8.61/-8.43	-5.62/-6.33	-7.71/-7.56	-7.35/-7.45	-7.43/-5.90	-4.48/-7.42	-8.45/-12.73	-10.46/-12.46	-8.83/-7.76
Θ (165°)	-7.28/-7.56	-7.19/-9.40	-8.60/-7.17	-7.21/-9.93	-13.93/-14.88	-11.93/-9.99	-9.22/-8.52	-8.10/-8.62	-11.46/-12.88	-12.38/-12.20	-9.57/-7.19	-6.95/-6.13	-7.23/-7.41	-9.42/-9.86	-8.12/-7.01	-6.17/-6.27	-8.51/-11.20	-10.78/-7.84	-6.88/-7.88	-9.42/-10.45	-12.26/-15.03	-15.61/-11.89	-10.53/-8.08	-7.54/-7.73
Θ (172.5°)	-13.34/-13.24	-14.67/-13.65	-13.34/-13.65	-14.70/-15.32	-15.63/-14.48	-14.96/-14.48	-12.52/-13.92	-11.59/-9.49	-7.61/-6.47	-6.15/-5.71	-6.83/-6.85	-5.92/-6.15	-5.38/-6.45	-9.13/-9.75	-8.20/-8.39	-9.92/-10.56	-10.79/-10.05	-9.81/-12.35	-16.01/-13.26	-11.38/-9.38	-8.08/-9.12	-9.28/-10.46	-12.04/-11.86	-12.04/-11.86
Θ (180°)	-14.85/-14.99	-15.34/-14.18	-14.82/-14.12	-13.10/-12.58	-12.91/-12.73	-13.23/-15.24	-15.41/-15.24	-13.13/-12.85	-13.33/-13.28	-13.03/-13.40	-14.48/-11.46	-9.56/-8.58	-8.40/-8.82	-11.40/-15.60	-15.26/-11.60	-10.88/-12.44	-15.20/-14.92	-14.53/-14.84	-13.82/-14.16	-13.49/-12.02	-10.43/-10.04	-11.78/-14.22	-13.80/-15.87	-13.95/-15.77
Freq(Hz)	5.6G/Pol.	Total/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-12.67/-11.89	-12.68/-13.22	-13.81/-13.32	-12.41/-12.51	-12.20/-12.23	-12.83/-12.22	-11.72/-10.98	-10.78/-11.46	-11.08/-12.98	-11.79/-12.12	-13.28/-11.51	-14.24/-14.82	-15.13/-13.03	-13.16/-13.18	-13.47/-14.33	-14.76/-14.35	-14.48/-16.01	-15.07/-12.94	-11.73/-13.54	-15.53/-11.97	-14.50/-16.03	-12.52/-12.25	-12.36/-13.22	-12.12/-12.27
Θ (7.5°)	-13.74/-12.61	-12.82/-15.37	-14.45/-14.02	-14.01/-14.87	-15.70/-15.34	-15.46/-14.48	-11.90/-9.96	-9.57/-8.47	-7.73/-8.43	-8.31/-7.78	-7.99/-7.86	-8.65/-10.74	-12.16/-10.65	-9.50/-10.82	-10.83/-9.99	-10.51/-11.37	-11.10/-11.44	-11.24/-11.79	-13.43/-12.77	-12.57/-13.43	-14.63/-14.35	-13.25/-13.17	-12.74/-11.93	-12.74/-11.93
Θ (15°)	-14.15/-14.14	-11.66/-12.09	-11.40/-10.08	-8.89/-8.36	-7.75/-8.81	-11.93/-14.99	-10.77/-7.04	-5.44/-5.47	-5.83/-6.19	-6.38/-6.63	-7.54/-7.49	-7.38/-6.56	-5.66/-6.39	-7.44/-7.19	-5.45/-6.40	-9.30/-9.18	-8.84/-10.65	-12.35/-14.47	-15.58/-15.24	-15.26/-14.46	-16.02/-14.62	-15.41/-15.73	-1	

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







Antenna Pattern of 6GHz UNII 5 and UNII 6

Appendix E

Total Gain Data

Freq(Hz)	6.175G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-8.72/-5.87	-7.52/-8.46	-8.86/-8.27	-10.00/-10.05	-8.98/-9.50	-10.25/-9.49	-9.46/-8.50	-8.58/-7.33	-8.45/-7.90	-8.34/-8.42	-8.96/-7.86	-7.99/-9.10	-8.04/-6.87	-6.78/-8.13	-8.68/-8.13	-8.02/-9.16	-9.56/-9.46	-8.42/-8.92	-9.34/-9.27	-8.69/-9.12	-9.55/-10.38	-9.00/-10.26	-8.92/-10.13	-10.53/-9.33
Θ(7.5°)	-7.59/-6.87	-7.54/-8.22	-8.62/-8.44	-10.96/-11.21	-11.95/-12.06	-11.47/-11.77	-13.39/-13.37	-13.44/-17.37	-13.28/-13.11	-11.68/-11.31	-10.83/-11.33	-13.66/-11.67	-11.94/-12.34	-11.10/-11.70	-11.95/-10.79	-10.69/-11.96	-12.63/-12.60	-12.14/-9.89	-11.52/-9.70	-10.95/-10.27	-10.76/-9.39	-9.01/-8.21	-8.10/-7.72	-7.69/-7.37
Θ(15°)	-13.15/-12.27	-13.07/-13.15	-12.88/-12.13	-10.46/-11.24	-12.21/-14.69	-14.27/-14.61	-14.59/-15.49	-15.05/-15.14	-13.78/-13.72	-13.20/-14.37	-15.08/-14.76	-12.67/-8.83	-7.80/-9.02	-11.00/-11.18	-11.68/-12.51	-14.27/-14.68	-10.78/-10.02	-11.91/-9.03	-11.69/-11.88	-13.99/-12.81	-14.70/-12.74	-13.99/-13.91	-13.76/-13.50	-14.40/-14.04
Θ(22.5°)	-5.74/-7.05	-10.02/-11.74	-9.97/-8.19	-8.01/-7.78	-9.06/-11.10	-9.36/-7.99	-7.82/-8.34	-10.28/-9.76	-10.89/-9.18	-9.50/-10.25	-13.39/-9.28	-4.76/-4.02	-5.01/-6.62	-7.75/-9.72	-13.40/-15.35	-10.48/-9.96	-10.81/-11.04	-12.71/-15.08	-13.16/-11.98	-11.70/-12.12	-12.00/-11.07	-10.66/-8.15	-6.41/-7.05	-9.02/-6.76
Θ(30°)	-4.92/-4.11	-4.71/-7.86	-6.99/-5.59	-5.20/-4.55	-5.27/-6.81	-5.66/-5.46	-4.76/-4.05	-5.52/-6.07	-7.49/-8.42	-6.13/-5.31	-8.12/-6.83	-5.82/-6.76	-7.52/-4.96	-2.89/-6.19	-10.81/-10.03	-6.37/-4.03	-2.62/-2.40	-3.78/-5.19	-4.07/-3.34	-3.56/-6.66	-6.65/-5.75	-6.77/-6.09	-6.77/-7.90	-9.90/-7.90
Θ(37.5°)	-6.35/-2.62	-1.93/-4.90	-4.32/-5.36	-5.57/-2.74	-3.69/-3.72	-1.96/-3.53	-3.93/-5.48	-3.83/-2.51	-3.31/-6.64	-6.07/-5.10	-5.25/-5.64	-4.48/-5.28	-5.67/-4.22	-5.30/-2.92	-5.10/-6.09	-4.40/-3.54	-2.20/-2.49	-5.39/-5.86	-6.45/-7.34	-5.15/-3.75	-4.03/-4.59	-3.54/-4.66	-6.21/-7.25	-6.44/-14.10
Θ(45°)	-6.49/-3.07	-2.47/-2.99	-5.93/-6.97	-6.07/-5.81	-6.02/-1.19	-1.57/-3.30	-7.12/-7.65	-5.16/-3.66	-2.92/-4.19	-4.42/-3.08	-2.79/-3.45	-5.61/-3.92	-3.98/-2.10	-4.27/-6.76	-4.90/-8.09	-7.01/-6.31	-5.82/-10.94	-9.86/-5.77	-7.96/-8.12	-7.22/-7.69	-7.53/-10.33	-8.93/-4.85	-4.88/-6.36	-3.83/-3.79
Θ(52.5°)	-4.80/-1.88	-0.960/-4.6	-4.68/-4.20	-4.25/-3.64	-1.920/-2.5	-2.73/-5.59	-8.17/-2.84	-3.74/-5.10	-3.53/-4.93	-5.57/-3.02	-2.52/-2.58	-5.17/-1.80	-2.13/-4.29	-3.99/-4.51	-3.46/-5.74	-4.29/-3.57	-4.14/-5.45	-3.74/-5.62	-1.73/-2.00	-3.80/-3.87	-3.17/-4.62	-5.12/-5.70	-4.71/-4.53	-8.17/-2.24
Θ(60°)	-0.79/-1.32	-2.72/-0.17	-3.91/-2.27	-2.43/-3.80	-2.040/-1.6	-0.96/-3.75	-4.31/-5.46	-4.59/-6.24	-9.15/-3.75	-3.09/-0.05	-0.30/-1.37	-1.68/-5.44	-3.22/-1.24	-5.81/-0.94	-0.11/-3.79	-9.56/-0.76	-1.98/-0.61	-1.29/-4.99	-1.640/-0.4	-0.08/-4.21	-3.39/-0.13	-0.89/-2.62	-2.08/-1.06	-2.28/-5.64
Θ(67.5°)	0.640/-0.51	-7.53/-1.44	-3.39/-0.59	1.66/-0.68	-1.350/-0.3	-1.72/-0.23	-2.19/-3.65	-1.99/-4.20	-0.350/-2.2	-0.57/-2.77	-4.23/-3.26	-4.43/-2.60	-1.65/-3.69	-4.74/-0.12	0.30/-3.24	-5.12/-1.48	-1.24/-2.24	-3.46/-4.74	-1.98/-1.20	-1.09/-2.64	-3.05/-3.40	-3.22/-2.09	0.68/-4.08	-0.96/-2.79
Θ(75°)	0.260/-0.48	2.830/-1.7	-1.76/-1.78	1.06/-0.65	-2.721/-0.6	0.94/-2.44	-2.50/-1.95	4.13/-1.91	-1.10/-2.07	-2.14/-0.86	-2.38/-2.04	-2.34/-5.01	-1.33/-2.87	-8.25/-1.44	-1.40/-1.20	-0.78/-3.59	-2.32/-2.06	-5.20/-6.11	-4.10/-2.15	-0.94/-3.38	-1.61/-1.78	-7.98/-4.41	-2.99/-1.68	-0.14/-1.86
Θ(82.5°)	0.760/-0.03	0.43/-0.16	-1.34/-2.32	-1.39/-4.65	-7.050/-8.9	-1.21/-0.15	-2.90/-0.77	-2.14/-2.62	-1.65/-1.84	-3.06/-0.42	-5.27/-0.22	-0.73/-3.68	-1.32/-1.91	-5.93/-2.69	-2.32/-1.17	-5.59/-2.20	-5.10/-1.68	-6.68/-8.24	-5.23/-3.55	-5.83/-6.94	-6.89/-10.41	-5.14/-5.60	-9.25/-6.12	-2.08/-3.96
Θ(90°)	-4.33/-1.88	0.36/-3.19	-0.76/-1.73	-0.43/-4.00	-4.88/-3.29	-1.37/-0.89	-0.83/-3.41	-4.27/-3.26	-3.710/-0.6	-4.41/-0.57	-0.27/-0.75	-1.07/-1.62	0.24/-3.47	-0.33/-2.03	-2.56/-0.55	-5.08/-3.74	-8.39/-4.35	-4.31/-8.66	-4.64/-5.79	-8.13/-11.89	-5.03/-13.53	-6.04/-9.32	-11.87/-1.71	-6.80/-5.17
Θ(97.5°)	-3.80/-4.14	-4.28/-3.91	-2.90/-4.03	0.96/-0.52	-3.02/-7.0	-1.29/-1.83	-3.79/-4.81	-3.29/-2.09	-5.05/-1.50	-3.510/-0.4	0.32/-0.54	-1.00/-1.97	-2.05/-3.02	-2.06/-4.87	-2.45/-1.63	-2.12/-4.32	-5.34/-6.22	-5.24/-10.02	-3.95/-6.33	-9.74/-8.38	-5.64/-12.91	-7.64/-10.71	-5.64/-2.94	-4.12/-4.53
Θ(105°)	-1.35/-4.09	-5.28/-6.41	-3.41/-0.94	-1.160/-0.5	-3.50/-6.37	-1.98/-2.28	-8.42/-5.66	-1.73/-1.61	-5.01/-2.77	-1.640/-3.6	-1.26/-2.59	-1.45/-5.31	-1.62/-3.01	-2.17/-7.51	-4.39/-2.50	-2.64/-4.12	-7.41/-5.09	-6.91/-11.89	-10.43/-6.46	-10.03/-11.29	-11.50/-10.08	-9.51/-6.87	-7.07/-5.27	-2.80/-3.71
Θ(112.5°)	-2.35/-1.16	-2.53/-7.61	-6.17/-2.12	-2.01/-0.29	-4.15/-5.67	-3.78/-1.88	-4.98/-4.68	-1.87/-2.56	-6.69/-4.88	-3.713/-2.2	-3.91/-3.00	-4.31/-4.51	-3.43/-2.35	-3.85/-6.55	-3.99/-2.19	-2.93/-2.76	-3.14/-5.33	-8.25/-7.58	-7.01/-7.87	-7.15/-7.67	-6.99/-10.71	-10.81/-11.76	-8.35/-4.91	-4.94/-2.76
Θ(120°)	-2.71/-1.96	-2.51/-3.31	-6.50/-6.31	-3.67/-2.04	-6.92/-6.94	-3.68/-2.47	-2.67/-11.58	-4.95/-2.18	-4.64/-9.29	-4.63/-6.29	-2.90/-1.88	-3.88/-4.20	-1.59/-1.18	-2.14/-10.57	-6.99/-3.44	-4.18/-3.27	-2.14/-7.67	-11.50/-4.01	-4.82/-7.18	-9.53/-8.31	-8.87/-11.17	-4.91/-4.79	-6.73/-12.40	-4.32/-5.25
Θ(127.5°)	-3.68/-1.47	-1.34/-2.21	-4.95/-7.27	-4.41/-4.51	-8.58/-10.00	-4.17/-5.79	-9.18/-6.75	-15.37/-5.51	-5.50/-9.15	-10.62/-7.46	-3.90/-3.37	-4.05/-2.63	-2.01/-1.13	-5.55/-9.01	-7.76/-3.89	-6.87/-8.72	-4.51/-5.32	-8.29/-11.48	-12.06/-9.32	-5.19/-8.03	-13.54/-12.05	-9.79/-9.71	-6.66/-9.78	-6.52/-5.08
Θ(135°)	-5.03/-5.66	-1.41/-1.76	-3.91/-6.06	-5.11/-3.44	-8.01/-6.79	-10.02/-6.26	-11.79/-8.94	-7.23/-5.96	-4.61/-2.58	-3.70/-4.05	-3.65/-4.21	-4.12/-3.04	-3.26/-3.29	-10.06/-10.50	-10.70/-5.96	-2.83/-2.80	-5.11/-4.80	-11.34/-8.43	-11.43/-10.00	-10.75/-11.29	-11.70/-12.02	-12.38/-10.74	-7.87/-6.33	-6.70/-4.84
Θ(142.5°)	-8.16/-10.12	-7.44/-4.10	-4.41/-5.31	-2.72/-2.01	-7.10/-4.62	-5.00/-5.70	-4.11/-4.72	-6.81/-8.05	-4.39/-2.95	-2.46/-3.85	-2.80/-5.20	-7.38/-4.75	-6.07/-8.56	-7.41/-11.84	-5.95/-9.66	-6.45/-10.31	-10.43/-8.72	-15.56/-12.13	-15.62/-14.27	-14.31/-9.20	-15.16/-12.19	-12.20/-10.17	-5.66/-5.47	-4.94/-9.47
Θ(150°)	-9.53/-12.75	-10.01/-8.78	-5.67/-2.67	-2.09/-1.90	-2.55/-1.97	-2.31/-3.13	-5.67/-5.29	-5.55/-3.30	-2.93/-2.81	-6.80/-2.46	-5.83/-3.46	-5.32/-5.83	-8.03/-6.48	-11.59/-15.20	-12.14/-10.79	-14.69/-13.52	-14.97/-12.04	-14.88/-12.34	-14.97/-12.04	-14.78/-9.78	-8.95/-8.12	-7.97/-9.12	-7.97/-9.12	-7.97/-9.12
Θ(157.5°)	-9.64/-6.67	-6.18/-5.40	-8.40/-5.24	-2.89/-3.16	-4.07/-5.03	-5.91/-7.93	-6.37/-6.95	-6.93/-6.60	-4.55/-4.16	-3.87/-4.78	-6.75/-5.17	-3.28/-3.47	-4.68/-6.03	-6.07/-6.51	-4.58/-5.99	-11.15/-13.01	-8.46/-7.67	-11.15/-12.86	-9.92/-11.52	-12.08/-11.11	-11.01/-13.22	-13.79/-13.70	-10.49/-10.66	-9.67/-9.02
Θ(165°)	-6.74/-7.89	-9.25/-8.53	-7.22/-4.21	-4.34/-5.97	-10.03/-11.26	-11.82/-9.36	-9.18/-8.41	-6.48/-6.71	-5.20/-6.41	-5.55/-5.98	-6.44/-9.48	-13.09/-10.20	-8.83/-7.78	-5.78/-5.12	-7.46/-9.19	-8.79/-10.53	-10.95/-10.36	-14.34/-14.69	-11.48/-16.06	-11.19/-8.21	-7.42/-10.07	-9.36/-9.86	-7.62/-5.35	-3.51/-4.21
Θ(172.5°)	-11.14/-11.18	-11.79/-12.41	-14.41/-15.83	-15.76/-14.82	-12.11/-11.52	-12.37/-11.25	-10.88/-11.07	-12.10/-7.73	-11.40/-11.04	-9.80/-9.40	-11.55/-11.86	-9.89/-9.56	-10.51/-11.86	-10.23/-15.10	-14.90/-12.77	-12.53/-13.31	-15.43/-13.45	-11.15/-12.28	-12.91/-15.48	-14.01/-13.13	-9.92/-9.56	-8.87/-8.42	-9.81/-10.82	-9.81/-10.82
Θ(180°)	-14.40/-13.12	-12.35/-11.66	-11.02/-10.58	-11.90/-14.04	-13.43/-13.44	-12.23/-12.40	-12.12/-13.05	-12.07/-12.22	-11.62/-11.67	-11.01/-11.64	-13.28/-12.32	-12.58/-11.61	-10.33/-9.66	-11.13/-11.41	-11.61/-12.18	-13.69/-14.36	-11.69/-11.17	-11.91/-10.56	-10.90/-11.04	-11.09/-10.18	-10.05/-11.23	-11.88/-11.60	-11.85/-12.61	-13.29/-12.82
Freq(Hz)	6.475G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-10.92/-10.99	-11.04/-10.48	-10.19/-10.81	-10.13/-10.44	-10.57/-11.39	-10.27/-11.27	-11.69/-10.86	-11.00/-11.16	-11.05/-12.14	-11.14/-11.90	-10.43/-9.83	-11.19/-11.57	-10.75/-9.94	-10.01/-9.66	-10.02/-10.39	-9.57/-9.01	-10.09/-9.40	-10.98/-11.35	-10.94/-9.29	-11.02/-10.16	-11.21/-8.69	-10.10/-10.37	-10.57/-10.47	-10.98/-12.12
Θ(7.5°)	-9.18/-8.56	-8.75/-9.13	-9.18/-9.54	-9.92/-10.95	-12.11/-11.84	-11.34/-12.31	-11.88/-12.64	-10.63/-11.12	-11.32/-11.87	-12.44/-11.19	-11.43/-12.10	-10.31/-13.47	-10.85/-11.31	-12.66/-13.49	-16.04/-14.36	-15.18/-15.38	-13.92/-14.24	-13.86/-12.67	-12.79/-11.35	-11.18/-14.03	-10.57/-9.69	-9.42/-8.65	-9.23/-8.50	-9.23/-8.50
Θ(15°)	-12.80/-12.41	-10.88/-9.74	-8.89/-8.59	-9.39/-10.87	-10.61/-10.31	-11.21/-10.83	-11.05/-11.91	-12.05/-12.50	-11.77/-13.19	-10.34/-12.91	-13.39/-13.37	-11.50/-14.54	-10.33/-8.47	-7.62/-8.33	-9.35/-11.84	-15.15/-15.74	-15.05/-14.61	-12.86/-15.05	-12.50/-12.92	-10.09/-11.22	-9.18/-11.04	-8.88/-10.58	-11.37/-13.68	-11.38/-13.06
Θ(22.5°)	-8.86/-10.04	-10.69/-9.09	-7.08/-6.77	-9.08/-10.75	-8.04/-5.97	-3.82/-3.70	-5.79/-7.05	-7.52/-9.10	-8.87/-10.72	-8.46/-9.69	-8.95/-10.93	-11.56/-11.97	-11.19/-8.48	-9.81/-9.73	-8.61/-10.58	-13.92/-13.83	-11.15/-9.85	-11.64/-9.25	-9.27/-10.46	-10.90/-13.53	-11.26/-9.89	-7.99/-8.07	-7.81/-9.80	-8.66/-8.70
Θ(30°)	-3.66/-3.43	-5.52/-7.59	-7.75/-7.75	-5.36/-5.10	-8.26/-0.41	-4.18/-5.67	-4.90/-5.12	-2.29/-4.58	-4.83/-6.47	-7.99/-9.30	-7.71/-7.84	-8.54/-10.68	-9.43/-9.78	-5.63/-5.53	-7.27/-6.15	-5.88/-7.18	-3.93/-4.11	-4.71/-3.84	-3.94/-6.22	-7.70/-6.61	-7.11/-7.95	-8.64/-		