



Radiated Composite Gain Data Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(60°)	-4.73/-4.58	-2.93/-5.19	-14.77/-7.61	-9.52/-8.85	-3.54/-1.64	-0.390.91	2.452/7.74	2.62/-2.24	-2.11/-3.12	-0.78/-1.18	0.910/61	1.890/65	0.87/-1.02	-2.95/-5.82	-2.59/0.76	0.880/5	3.74/5.54	3.89/1.61	0.11/-2.53	-5.91/-3.58	-0.18/-3.14	-4.57/-0.77	-3.24/-1.75	-7.06/-8.44
Θ(67.5°)	-2.1/-0.02	2.28/0.57	-9.85/-5.39	-2.89/-9.04	-5.34/0.01	1.472/2.9	2.4/5.4	3.5/-1.27	-5.27/-2.39	0.48/-2.7	1.080/05	-4.31/0.59	-2.61/-2.49	-3.79/-9.3	-3.55/0.44	0.64/0.9	2.55/4.14	3.4/1.5	-0.82/-1.25	-2.58/-0.7	-0.03/-2.9	-3.27/0.19	-7.41/-3.07	-6.82/-7.92
Θ(75°)	-0.47/1.34	4.2/2.1	-8.05/-4.83	-1.37/-1.59	-9.19/0.52	0.94/1.6	0.152/1.1	1.84/-0.55	-4.92/-2.61	0.15/-5.41	-0.91/-1.21	-5.89/0.8	-2.53/-2.56	-5.51/-10.52	-5.11/-0.65	-0.76/-0.22	0.913/92	2.92/2.38	-1.68/-2.16	-1.62/0.59	-1.09/-0.09	-6.67/-1.7	-2.71/-5.02	
Θ(82.5°)	-0.97/1.26	3.47/0.45	-12.82/-8.92	-4.21/-5.15	-8.10/3.1	-2.21/-0.12	-2.19/-0.37	-3.96/-2.56	-6.23/-0.72	-1.52/-7.88	-5.14/-3.67	-0.59/-0.76	-5.66/-6.78	-6.87/-8.3	-5.05/-1.63	-1.28/-3.33	-0.29/2.91	2.47/1.67	-5.52/-1.23	-1.25/1.82	-5.39/-1.19	0.330/65	-3.43/-1.8	-1.85/-3.69
Θ(90°)	-3.4/-0.05	0.7/-2.55	-14.16/-18.48	-7.86/-7.93	-10.33/-2.79	-5.71/-2.85	-4.51/-1.16	-7.6/-6.88	-8.3/-2.37	-2.82/-11.52	-7.51/-5.04	-2.33/-0.41	-4.02/-10.34	-4.81/-6.65	-8.75/-3.62	-1.38/-7.09	-3.85/0.7	0.47/-1.13	-9.25/-5.09	-5.74/0.37	-7.45/-2.93	-0.66/-1.22	-5.33/-3.03	-1.55/-4.84
Θ(97.5°)	-6.37/-2.2	-0.18/-2.02	-10.43/-15.04	-4.8/-11.66	-17.2/-7.52	-7.16/-4.66	-7.85/-3.06	-9.16/-7.81	-12.65/-4.04	-6.38/-10.51	-10.93/-3.92	-3.03/-4.17	-8.48/-9.39	-7.61/-11.52	-2.62/-5.37	-2.79/-9.03	-6.18/-2.11	-2.62/-5.37	-15.8/-17.46	-19.02/-2.54	-11.5/-9.86	-4.95/-6.07	-8.95/-6.18	-1.77/-6.37
Θ(105°)	-6.4/-4.36	-3.88/-5.07	-11.43/-10.23	-9.57/-13.13	-11.95/-10.31	-10.77/-5.22	-10.92/-8.93	-9.67/-6.86	-13.87/-8.97	-10.52/-11.49	-10.75/-7.48	-5.58/-3.9	-12.09/-7.45	-12.68/-18.28	-10.03/-9.36	-4.13/-12.65	-9.12/-2.22	-3.07/-3.78	-11.16/-12.18	-18.63/-3.98	-8.97/-8.17	-9.22/-7.33	-9.38/-9.2	-4.85/-6.82
Θ(112.5°)	-9.65/-9.65	-8.4/-14.31	-18.69/-15.48	-13.23/-13.03	-7.43/-9.52	-11.5/-6.45	-9.16/-8.36	-15.83/-10.84	-17.51/-11.48	-18.23/-11.39	-9.13/-4.99	-7.76/-11.65	-10.17/-14.3	-12.6/-8.7	-4.61/-10.82	-13.09/-5.16	-4.7/-6.88	-17.71/-18.9	-14.4/-3.93	-9.62/-8.73	-10.64/-7.58	-14.27/-10.2	-6.67/-6.67	
Θ(120°)	-9.07/-11.26	-10.6/-12.41	-11.95/-18.2	-18.34/-14.61	-19.13/-16.08	-17.12/-12.85	-10.62/-9.67	-16.82/-18.49	-10.84/-9.65	-18.77/-11.25	-9.79/-4.91	-9.23/-6.8	-13.83/-9.24	-16.28/-12.56	-11.95/-12.06	-6.82/-5.63	-17.92/-6.43	-6.23/-9.16	-16.52/-19.42	-9.58/-9.35	-8.99/-8.55	-14.25/-11.63	-12.66/-14.42	-9.9/-10.96
Θ(127.5°)	-7.67/-16.03	-10.07/-13.09	-13.56/-17.26	-17.21/-13.77	-12.39/-18.17	-16.42/-9.84	-17.85/-17.89	-17.96/-17.6	-12.62/-14.39	-15.99/-14.14	-8.32/-10.92	-8.64/-13.66	-16.97/-10.17	-17.48/-8.68	-14.75/-9.81	-6.44/-6.92	-17.78/-9.46	-6.18/-7.94	-15.49/-14.9	-16.43/-7.17	-4.77/-10.8	-19.22/-9.28	-11.99/-12.86	-11.09/-17.11
Θ(135°)	-18.75/-18.34	-18.59/-18.53	-17.96/-17.8	-13.7/-17.05	-10.91/-17.17	-15.97/-9.33	-11.6/-14.24	-14.28/-17.74	-19.02/-15.87	-14.57/-15.55	-9.95/-11.22	-8.46/-11.34	-18.35/-14.05	-18.93/-10.9	-18.98/-8.3	-5.98/-8.06	-18.61/-18.13	-14.11/-15.92	-11.19/-10.3	-10.43/-15.75	-5.75/-11.79	-11.78/-13.93	-9.46/-18.16	-17.84/-18.43
Θ(142.5°)	-16.36/-17.38	-17.59/-18.93	-15.88/-11.7	-11.28/-18.35	-16.41/-14.57	-17.27/-17.49	-18.34/-12.98	-18.32/-18.05	-17.59/-13.2	-12.06/-16.82	-7.83/-10.82	-18.26/-15.97	-15.91/-19.45	-13.99/-10.16	-10.06/-10.84	-12.86/-14.87	-9.55/-18.52	-10.93/-17.41	-18.09/-17.61	-14.75/-12.69	-10.53/-12.57	-18.61/-19.01	-13.16/-15.03	-15.99/-17.71
Θ(150°)	-10.19/-13.27	-14.88/-17.16	-18.85/-16.66	-14.72/-18.97	-13.7/-11.48	-14.86/-13.51	-14.24/-15.87	-18.76/-19.15	-17.65/-16.67	-14.44/-12.09	-11.08/-12.68	-13.06/-18.45	-18.55/-14.89	-15.63/-18.65	-17.71/-17.85	-16.67/-19.4	-17.3/-17.24	-13.07/-13.33	-15.3/-18.44	-18.78/-17.67	-18.87/-18.09	-18.34/-14.54	-12.76/-18.62	-18.51/-16.73
Θ(157.5°)	-14.53/-12.52	-10.25/-9.57	-12.2/-16.11	-14.96/-14.05	-14.31/-14.54	-14.99/-16.95	-18.62/-18.1	-18.73/-19.05	-18.67/-17.44	-18.34/-17.33	-18.02/-18.39	-17.72/-17.79	-17.76/-15.94	-16.1/-17.96	-18.09/-15.71	-14.88/-13.28	-11/-10.86	-12.45/-18.34	-18.97/-19	-17.48/-17.76	-11.94/-14.37	-18.75/-15.61	-19.33/-18.49	-19.36/-17.44
Θ(165°)	-18.72/-17.48	-13.79/-17.72	-18.93/-16.18	-18.16/-17.84	-18.83/-19.51	-17.86/-18.91	-18.87/-18.22	-19.03/-16.56	-12.99/-16.57	-18.4/-19.24	-17.91/-18.75	-17.57/-17.79	-18.73/-14.49	-12.33/-10.4	-9.86/-9.17	-8.79/-9.42	-11.39/-14.8	-17.25/-17.45	-18.5/-13.57	-11.3/-12.28	-14.93/-17.33	-16.07/-18.01	-19.2/-17.9	
Θ(172.5°)	-18.36/-19.09	-18.47/-18.73	-17.41/-17.37	-18.16/-18.56	-19.29/-17.83	-17.73/-18.62	-18.74/-18.6	-16.6/-14.2	-13.54/-12.64	-11.1/-10.41	-10.88/-12.28	-14.04/-14.49	-13.81/-12.9	-12.12/-12.02	-11.98/-11.65	-11.63/-11.28	-10.69/-10.24	-11.56/-13.68	-16.89/-18.26	-18.93/-18.23	-17.23/-18.98	-18.65/-18.36	-18.58/-16.41	-13.11/-12.98
Θ(180°)	-11.13/-11.43	-10.9/-11.05	-10.83/-11.85	-13.59/-15.19	-16.4/-17.1	-17.52/-18.86	-19.17/-18.59	-18.31/-19.23	-16.09/-14.68	-15.18/-15.36	-15.61/-14.92	-14.55/-15.7	-16.38/-16.44	-16.35/-10.91	-10.92/-10.79	-11.02/-11.34	-10.84/-12.37	-14.05/-13.97	-15.21/-16.73	-14.37/-13.77	-13.38/-12.49	-13.5/-12.76	-11.1/-11.19	-9.64/-7.89
Freq(Hz)	6.995GHz	PhiAnt.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°)	-18.42/-19.37	-18.05/-15.74	-11.02/-9.5	-7.87/-7.68	-8.2/-8.2	-7.347/-13	-7.33/-7.55	-7.9/-8.09	-8.99/-9.5	-10.59/-11.2	-12.08/-13.15	-15.89/-17.64	-17.6/-18.02	-19.13/-17.65	-13.87/-9.69	-8.58/-8.78	-7.25/-7.3	-4.88/-4.47	-4.89/-5.36	-5.13/-5.44	-5.82/-5.8	-6.79/-7.4	-7.23/-9.21	-15/-18.31
Θ(7.5°)	-12.13/-12.51	-13.71/-14.91	-17.11/-16.69	-13.88/-13.64	-12.47/-12.13	-10.55/-8.95	-12.71/-15.1	-7.04/-6.11	-5.72/-5.56	-5.9/-6.32	-7.66/-8.41	-9.48/-13.51	-17.71/-18.8	-15.79/-11.06	-8.12/-6.05	-4.9/-4.75	-4.36/-3.14	-2.39/-3.44	-4.22/-5.26	-5.27/-12.48	-7.65/-9.15	-9.43/-10.85	-10.41/-12.09	-16.69/-16.38
Θ(15°)	-18.93/-13.95	-9.31/-7.36	-6.07/-5.07	-4.16/-3.43	-3.66/-5.12	-9.1/-13.93	-9.85/-5.75	-3.85/-3.64	-3.74/-2.59	-1.28/-0.96	-1.03/-2.21	-3.83/-6.78	-12.81/-18.46	-18.38/-18.72	-12.41/-9.55	-9.85/-8.84	-9.79/-9.52	-5.69/-5.54	-4.87/-4.73	-4.04/-6.55	-5.55/-5.3	-5.5/-7.72	-10.33/-16.24	-19.18/-14.27
Θ(22.5°)	-8.56/-8.22	-9.47/-11.01	-9.7/23	-5.79/-6.96	-10.08/-12.76	-12.1/-9.81	-6.1/-3.82	-2.88/-3.57	-3.92/-3.21	-1.51/-1.81	-3.2/-4.95	-8.01/-13.88	-18.38/-12.04	-8.49/-7.6	-7.81/-9.72	-17.9/-16.6	-7.89/-11.36	-7.18/-3.46	-3.12/-5.3	-4.06/-6.06	-2.36/-5.4	-13.74/-14.6	-14.3/-10.14	
Θ(30°)	-12.81/-12.18	-6.95/-16.6	-4.95/-2.98	-2.46/-5.54	-12.69/-7.84	-7.31/-11.45	-17.87/-18.57	-11.05/-6.84	-7.24/-3.49	-3.59/-7.84	-5.21/-4.44	-2.07/-11.47	-17.81/-16.79	-8.58/-9.61	-15.49/-17.42	-7.74/-6.99	-11.99/-11.46	-6.63/-3.72	-2.97/-6.12	-7.78/-16.83	-15.84/-17.2	-17.59/-17.59		
Θ(37.5°)	-19.09/-7.48	-6.72/-16.24	-13.69/-15.27	-17.33/-12.31	-10.31/-6.25	-5.18/-9.86	-18.84/-13.86	-8.08/-3.81	-7.57/-5.17	-5.02/-7.79	-5.69/-9.3	-16.61/-14.55	-18.75/-12.06	-8.6/-13.96	-15.97/-17.91	-18.73/-19.36	-9.91/-10.06	-6.45/-3.38	-3.35/-2.19	-2.09/-6.87	-13.19/-18.51	-11.09/-9.26	-8.3/-18.63	-13.44/-17.71
Θ(45°)	-17.45/-8.09	-16.62/-13.07	-10.38/-6.75	-11.45/-11.67	-7.79/-8.87	-18.65/-17.58	-8.63/-7.28	-17.7/-7.98	-14.62/-9.64	-6.43/-4.29	-5.48/-11.53	-15.51/-13.42	-9.86/-15.72	-8.76/-18.12	-18.39/-18.69	-17.86/-16.13	-15.51/-16.46	-13.79/-4.46	-4.21/-4.13	-5.28/-15.12	-15.45/-18.11	-6.96/-6.3	-5.43/-9.22	-15/-17.52
Θ(52.5°)	-10.2/-5.78	-11.69/-11.04	-15.27/-9.79	-11.74/-13.71	-15.89/-11.55	-6.02/-9.17	-7.46/-9.44	-19.3/-8.93	-15.12/-15.86	-18.73/-6.86	-14.88/-6.45	-18.74/-13.59	-16.4/-11.29	-18.81/-15.73	-11.28/-16.65	-18.88/-15.96	-12.02/-11.99	-9.58/-7.68	-6.94/-6.1	-7.44/-17.34	-17.39/-10.91	-5.57/-7.84	-11.93/-12.89	
Θ(60°)	-9.31/-14.65	-10.4/-11.36	-10.25/-13.06	-18.76/-15.81	-15.26/-16.98	-10.88/-10.32	-12.73/-13.28	-18.7/-15.03	-12.07/-12.66	-14.86/-12.93	-13.85/-8.44	-8.91/-16.83	-16.5/-9.99	-11.36/-14.08	-8.87/-12.41	-12.43/-16.96	-8.66/-8.74	-6.78/-7.9	-8.01/-8.89	-14.2/-18.86	-18.43/-13.8	-6.07/-3.25	-4.82/-4.67	-6.33/-9.41
Θ(67.5°)	-6.7/-15.38	-11.33/-19.11	-16.71/-14.22	-13.45/-15.44	-17.01/-8.61	-18.8/-16.73	-17.25/-18.92	-15.85/-16.42	-17.39/-12.87	-18.87/-18.8	-14.54/-7.28	-8.2/-12.51	-19.06/-9.41	-13.41/-16.62	-14.45/-8.9	-8.76/-12.09	-6.46/-5.71	-7.31/-14.21	-11.47/-12.7	-12.29/-18.62	-13.65/-14.01	-10.34/-5.42	-3.79/-6.72	-4.69/-9.84
Θ(75°)	-11.37/-17.22	-12.84/-12.01	-9.14/-9.39	-10.46/-13.13	-13.36/-11.38	-17.63/-13.02	-18.3/-13.78	-18.9/-13.73	-13.93/-12.99	-18.84/-17.21	-10.03/-7.85	-6.77/-16.88	-18.13/-12.61	-17.5/-5.37	-7.29/-12.08	-5.43/-5.94	-7.62/-18.33	-13.51/-17.91	-11.75/-17	-13.94/-15	-13.41/-7.02	-7.45/-6.87	-5.59/-12.15	
Θ(82.5°)	-13.5/-14.83	-11.68/-11.28	-6.79/-8.55	-14.63/-13.23	-12.98/-11.19	-8.48/-9.25	-15.81/-18.84	-18.25/-10.16	-13.27/-14.75	-14.26/-18.09	-10.69/-9.85	-9.01/-17.21	-14.21/-13.61	-14.12/-13.89	-11.74/-6.4	-2.99/-9.15	-6.32/-6.7	-10.07/-16.02	-13.34/-17.42	-12.52/-11.95	-12.42/-12.11	-11.99/-15.56	-9.22/-11.33	-9.99/-13.24
Θ(90°)	-18.61/-15.02	-13/-11.94	-9.96/-8.7	-18.53/-16.17	-17.05/-12.14	-5.92/-13.06	-18.49/-18.03	-14.7/-10.94	-13.72/-15.89	-14.03/-14.78	-9.08/-9.78	-10.2/-14.68	-14.89/-18.69	-17.81/-12.91	-15.17/-5.77	-7.51/-10.6	-6.59/-7.83	-10.43/-17.91	-16.79/-18.94	-15.58/-10.71	-11.74/-14.41	-14.97/-18.74	-16.19/-13.88	-10.9/-14.54
Θ(97.5°)	-17.99/-18.45	-15.06/-13.96	-14.6/-11.11	-17.92/-18.7	-17.04/-14.1	-5.42/-13.72	-15.21/-13.65	-12.28/-12.69	-11.38/-15.53	-13.5/-13.26	-9.51/-10.4	-11.32/-17.85	-12.83/-17.49	-13.38/-11.27	-10.29/-7.41	-10.46/-12.87	-7.28/-8.62	-15.38/-18.38	-18.48/-18.54	-14.61/-13.61	-14.13/-18.15	-18.22/-18.04	-18.96/-12.76	-15.96/-16.87
Θ(105°)	-17.28/-18.2	-18.4/-10.35	-17.77/-18.22	-17.21/-18.78	-17.25/-11.08	-9.38/-1.498	-17.99/-10.61	-12.06/-11.45	-11.14/-14.55	-16.99/-10.04	-9.26/-13.2	-17.32/-1												



Radiated Composite Gain Data Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(105°)	-1.42/-3.38	-3.06/-5.82	-7.58/-6.83	-18.76/-10.35	-10.66/-6.49	-5.56/-11.25	-7.58/-8.57	-6.41/-4.72	-5.6/-6.82	-3.76/-6.92	-10.94/-6.27	-7.4/-6.94	-8.8/-12.49	-6.87/-5.58	-8.73/-2.58	-7.23/-11.12	-18.29/-12.04	-6.76/-6.27	-7.26/-3.37	-6.77/-6.36	-2.72/-9.1	-18.72/-7.02	-1.96/-8.02	-5.65/-6.26
Θ(112.5°)	-4.02/-5.33	-6.05/-8.54	-10.34/-11	-18.63/-12.77	-12.54/-5.45	-6.21/-9.94	-6.31/-8.44	-7.62/-8.52	-8.46/-9.65	-5.73/-9.59	-10.47/-9.03	-8.94/-10.55	-17.14/-18.49	-8.28/-18.27	-12.57/-14.16	-9.13/-12.95	-9.1/-17.24	-6.58/-8.31	-9.62/-5.79	-7.32/-5.79	-1.74/-9.37	-11.62/-6.49	-6.73/-11.64	-9.34/-7.56
Θ(120°)	-5.23/-5.38	-9.18/-13.37	-13.92/-15.42	-17.79/-15.57	-12.79/-9.82	-7.64/-10.9	-10.17/-15.1	-8.93/-10.9	-8.55/-10.84	-8.98/-9.91	-13.2/-16.55	-14.56/-8.03	-15.16/-13.67	-5.27/-12.19	-18.26/-8.71	-11.17/-12.47	-18.14/-18.62	-17.06/-11.55	-8.21/-4.43	-7.43/-6.3	-6.38/-10.32	-10.42/-17.36	-10.01/-9.26	
Θ(127.5°)	-4.67/-13.01	-10.94/-10.6	-18.58/-19.26	-18.85/-18.88	-11.47/-11.21	-10.64/-10.21	-11.99/-16.54	-11.33/-11.31	-10.26/-11.17	-10.26/-8.01	-13.44/-16.81	-12.9/-11.96	-10.44/-12.99	-10.06/-13	-11.72/-17.81	-19.25/-8.85	-13.64/-11.64	-13.22/-16.65	-11.25/-6.91	-13.74/-15.88	-6.79/-7.77	-8.43/-11.99	-8.47/-13.59	-9.66/-7.18
Θ(135°)	-9.49/-14.48	-18.22/-19.77	-16.23/-18.96	-16.13/-18.62	-9.95/-8.62	-14.58/-12.45	-12.46/-15.65	-10.56/-10.31	-12.4/-13.17	-13.21/-12	-11.24/-15.05	-19.11/-18.65	-16.68/-15.77	-12.13/-14.01	-9.81/-12.12	-7.51/-7.7	-18.26/-11.21	-13.76/-14.22	-10.48/-5.54	-10.52/-15.35	-12.51/-12.64	-11.53/-14.44	-18.49/-15.51	-11.06/-8.97
Θ(142.5°)	-13.18/-12.28	-12.02/-10.54	-17.47/-18.51	-9.44/-10.3	-14.35/-11.88	-14.32/-15.98	-19.07/-15.29	-11.16/-11.06	-10.61/-8.17	-7.68/-8.28	-8.23/-8.29	-9.5/-16.08	-15.66/-14.99	-16.65/-18.03	-18.67/-13.94	-18.13/-17.85	-18.1/-18.04	-14.59/-11.01	-9.98/-12.1	-16.18/-10.5	-13.9/-13.24	-11.61/-12.75	-11.12/-8.91	
Θ(150°)	-18.67/-18.77	-18.02/-17.74	-18.87/-11.69	-9.23/-8.23	-10.05/-15.85	-16.62/-14.4	-14.93/-15.27	-9.74/-8.26	-9.8/-13.29	-14.19/-12.67	-11.38/-9.22	-9.92/-12.26	-14.42/-18.53	-16.22/-12.13	-10.98/-17.56	-18.78/-18.13	-18.88/-18.87	-17.06/-18.91	-18.17/-16.2	-18.78/-18.5	-17.32/-17.47	-17.94/-13.35	-10.73/-17.34	-16.57/-12.48
Θ(157.5°)	-11.39/-12.9	-19.14/-18.77	-12.77/-10.35	-10.66/-11.27	-13.23/-16.1	-13.07/-12.39	-14.62/-17.2	-18.39/-14.87	-11.21/-11.32	-12.97/-13.77	-13.87/-15.73	-14.76/-13.66	-14.54/-13.01	-9.92/-11.07	-15.53/-14.17	-13.11/-16.23	-17.98/-18.63	-16.85/-18.46	-18.81/-18.84	-15.33/-14.78	-19.23/-19.03	-16.23/-12.99	-12.43/-15.45	-19.2/-13.93
Θ(165°)	-19.4/-18.45	-19.03/-18.86	-18.17/-14.83	-15.29/-19.31	-19.09/-18.55	-18.73/-18.58	-18.42/-18.41	-19.32/-14.94	-13.12/-11.88	-10.54/-10.94	-12.63/-13.66	-14.38/-14.73	-16.5/-18.97	-18.81/-17.54	-17.97/-16.27	-15.57/-15.33	-14.91/-15.22	-17.8/-18.51	-16.43/-11.8	-9.44/-8.84	-9.07/-11.79	-16.16/-18.97	-19.23/-18.7	-19.24/-17.6
Θ(172.5°)	-14.38/-14.75	-13.92/-12.08	-11.84/-12	-12.51/-15.53	-17.13/-18.34	-18.76/-17.93	-14.63/-14.95	-15.79/-14.83	-14.67/-14.85	-13.88/-13.91	-14.8/-15.77	-16.35/-19.04	-18.03/-17.05	-17.47/-18.22	-18.31/-17.5	-17.99/-18.14	-18.95/-17.67	-17.93/-19.39	-19.39/-18.74	-18.11/-17.59	-18.95/-19.15	-18.2/-18.66	-18.82/-18.62	-18.22/-18.72
Θ(180°)	-19.17/-17.92	-18.91/-18	-19.37/-18.92	-18.85/-18.02	-18.2/-18.55	-18.6/-17.62	-18.19/-19.39	-16.24/-16.37	-16.79/-16.11	-15.7/-15.25	-14.51/-14.81	-16.02/-18.1	-18.01/-18.1	-18.46/-19.16	-17.71/-18.22	-18.54/-17.93	-17.86/-19.34	-18.57/-18.63	-18.79/-17.77	-17.41/-19	-16.75/-15.96	-17.18/-15.7	-14.62/-16.86	-19.18/-17.17
Freq(Hz)	5.785GPol.	PhiAnt.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°)	-11.86/-13.77	-16.75/-16.58	-16.7/-15.75	-14.68/-11.61	-9.06/-7.35	-6.41/-6.22	-6.22/-6.01	-5.35/-6.05	-7.69/-8.53	-8.43/-9.36	-10.62/-14.03	-18.81/-17.85	-17.29/-18.6	-18.31/-18.42	-17.1/-16.63	-15.54/-13.44	-12.22/-12.21	-11.89/-12.44	-12.21/-11.38	-10.58/-10.96	-9.99/-10.45	-10.61/-8.76	-8.56/-10.6	-9.93/-9.25
Θ(7.5°)	-17.41/-19.7	-18.17/-12	-17.76/-17.91	-13.12/-13.23	-13.1/-14.49	-14.88/-15.2	-17.44/-19.27	-18.18/-19	-19.07/-18.26	-18.73/-16.5	-14.08/-11.96	-9.91/-10.24	-12.44/-14.11	-13.52/-12.67	-11.72/-9.89	-7.93/-10.4	-6.31/-5.87	-6.09/-5.36	-4.83/-6.06	-6.83/-6.65	-6.97/-7.96	-8.46/-11.68	-11.95/-11.75	
Θ(15°)	-17.41/-18.55	-18.67/-19.32	-17.87/-14.43	-11.97/-12.13	-14.67/-18.77	-18.74/-13.37	-9.88/-7.55	-6.76/-6.61	-6.23/-5.53	-5.16/-5.58	-5.96/-6.44	-7.3/-7.54	-7.8/-8.8	-10.79/-12.35	-11.71/-10.11	-8.31/-7.13	-5.64/-5.11	-5.35/-5.57	-6.51/-7.06	-7.48/-9.27	-11.28/-13.15	-16.58/-18.01	-18.7/-15.5	-17.89/-19.02
Θ(22.5°)	-14.26/-14.3	-10.45/-14.35	-12.1/-8.32	-7.07/-9.62	-8.15/-13.42	-18.05/-12.6	-7.04/-9.13	-6.13/-9.85	-3.62/-5.58	-4.16/-4.27	-5.84/-7.6	-6.82/-4.37	-5.82/-7.6	-9.47/-11.05	-10.64/-9.82	-8.01/-6.99	-7.01/-5.54	-4.06/-3.32	-3.43/-2.74	-1.91/-2.66	-3.18/-5.2	-7.35/-10.42	-1.03/-6.91	-11.41/-14.9
Θ(30°)	-12.32/-14.75	-10.76/-15.01	-15.12/-14.78	-6.61/-9.76	-10.25/-9.12	-12.67/-16.97	-10.08/-9.11	-16.05/-11.08	-5.56/-5.64	-9.78/-18.12	-13.64/-15.51	-15.8/-8.37	-7.27/-8.09	-12.16/-18	-16.68/-18.69	-9.19/-6.58	-11.96/-8.77	-3.98/-4.07	-5.6/-3.24	-2.1/-2.92	-4.52/-11.4	-11.06/-13.84	-14.42/-12.05	-8.88/-9.3
Θ(37.5°)	-9.86/-14.25	-9.32/-15	-12.71/-6.09	-8.07/-18.08	-11.62/-9.94	-19.4/-17.23	-16.89/-16.31	-8.77/-6.42	-6.27/-8.01	-9.09/-6.82	-5.47/-5.56	-5.75/-9.73	-14.89/-13.46	-12.53/-11.74	-11.07/-12.2	-9.4/-7.69	-15.87/-10.04	-5.33/-11.76	-8.65/-3.48	-4.71/-5.7	-4.5/-5.18	-6.47/-8.64	-12.5/-16.92	-9.02/-7.01
Θ(45°)	-10.79/-14.7	-10.65/-10.35	-13.55/-8.08	-14.49/-14.8	-7.88/-7.4	-11.57/-9	-6.62/-6.21	-5.5/-5.94	-14.98/-12.39	-11.24/-9.13	-6.97/-7.95	-18.17/-13.34	-15.24/-13.88	-9.33/-7.92	-10.81/-17.17	-19.23/-17.6	-16.79/-8.84	-8.34/-18.52	-6.16/-15.2	-8.26/-5.53	-6.32/-9.72	-8.68/-8.82	-12.28/-12.88	-12.48/-4.63
Θ(52.5°)	-11.8/-19.38	-14.36/-11.7	-10.35/-10.38	-17.67/-10.53	-9.37/-19	-7.74/-10.42	-8.89/-7.12	-5.35/-10.09	-6.99/-9.3	-14.75/-10.49	-8.44/-10.9	-8.93/-13.06	-17.72/-12.11	-16.65/-9.62	-11.96/-18.19	-10.64/-11.85	-13.28/-10.07	-18.57/-10.45	-4.71/-9.05	-10.64/-7.31	-15.13/-12.1	-13.85/-12.42	-12.51/-7.32	-18.04/-9.16
Θ(60°)	-12.2/-18.16	-12.37/-12.43	-11.87/-12.71	-12.47/-8.84	-17.52/-9.6	-12.19/-17.89	-12.68/-12.96	-9.36/-15.94	-6.63/-8.31	-16.23/-12.09	-9.74/-18.18	-10.62/-7.45	-17.24/-13.42	-18.05/-15.89	-12.02/-18.81	-8.75/-6.81	-13.62/-13.69	-17.67/-14.87	-10.86/-17.75	-11.02/-8.53	-9.75/-6.47	-18.37/-9.02	-14.62/-7.52	-18.97/-13.57
Θ(67.5°)	-12.42/-19.17	-14.88/-17.7	-15.22/-16.19	-11.51/-11.65	-18.21/-15.97	-17.94/-17.64	-17.28/-18.43	-15.57/-18.65	-7.23/-11.38	-13.97/-11.34	-10.17/-11.81	-16.64/-11.57	-12.48/-18.81	-8.7/-16.31	-12.56/-14.12	-9.6/-4.49	-10.19/-9.36	-18.94/-16.03	-19.16/-12	-13.62/-18.56	-11.88/-8.63	-11.54/-8.68	-10.74/-10.45	-17.57/-10.47
Θ(75°)	-14.44/-18.98	-17.65/-17.97	-19.03/-17.61	-11.41/-15.3	-15.71/-17.61	-18.36/-16.86	-18.79/-18.35	-18.13/-16.96	-10.27/-15.25	-17.32/-13.88	-11.28/-8.8	-14.31/-14.46	-14.6/-12.8	-10.27/-10.78	-12.16/-13.16	-12.7/-21.07	-9.84/-7.94	-13.09/-16.04	-11.13/-18.03	-18.34/-14.74	-17.52/-7.59	-8.87/-9.98	-11.17/-15.92	-18.09/-16.89
Θ(82.5°)	-13.02/-17.81	-19.21/-13.13	-18.8/-19.35	-12.9/-18.64	-19.21/-18.49	-14.58/-18.3	-18.8/-14.56	-17.92/-16.26	-16.6/-18.63	-15.8/-18.37	-13.25/-7.21	-14.09/-13.43	-12.1/-16.76	-9.33/-18.19	-17.8/-15.71	-14.07/-6.05	-8.01/-7.88	-9.76/-11.01	-6.15/-18.61	-14.27/-13.04	-19.58/-11.48	-8.43/-10.28	-11.98/-13.79	-18.43/-17.78
Θ(90°)	-13.99/-18.84	-17.57/-18.35	-18.08/-19.73	-15.04/-14.99	-17.78/-16.85	-14.14/-16.47	-18.6/-13.9	-16.41/-17.89	-17.74/-17.93	-18.71/-17.56	-16.01/-10.2	-11.46/-18.62	-17.38/-14.87	-12.31/-12.97	-18.17/-18.34	-13.38/-19.06	-9.93/-8.2	-9.07/-16.22	-5.92/-17.4	-15.16/-13.33	-13.56/-19.44	-9.9/-13	-13.79/-16.89	-19.07/-17.15
Θ(97.5°)	-17.53/-19.31	-19.43/-14.27	-17.48/-17.81	-19.04/-18.67	-16.74/-16.54	-15.92/-13.42	-16.71/-18.52	-19.08/-17.37	-18.51/-17.09	-17.81/-12.05	-14.35/-15.63	-17.87/-18.38	-12.31/-18.58	-19.64/-10.04	-6.28/-7.57	-9.46/-15.69	-6.9/-11.24	-18.34/-15.52	-15.39/-15.51	-16.38/-16.62	-18.59/-18.01	-17.52/-18.35		
Θ(105°)	-19.09/-18.8	-18.14/-37	-18.45/-17.41	-19.18/-17.92	-18.47/-17.93	-15.54/-19.17	-17.57/-15.59	-14.86/-17.63	-19.07/-17.47	-18.89/-18.95	-18.59/-18.27	-15.59/-16.42	-19.14/-17.9	-18.69/-18.54	-19.29/-18.81	-12.08/-11.31	-11.61/-10.31	-9.49/-13.6	-9.24/-9.79	-12.47/-17.88	-17.63/-17.03	-17.62/-14.36	-18.84/-18	-17.64/-18.69
Θ(112.5°)	-16.59/-18.73	-14.89/-17.35	-17.9/-18.47	-17.76/-17.58	-15.86/-16.62	-18.34/-16.35	-18.92/-13.83	-18.8/-18.03	-19.04/-17.31	-17.56/-16.65	-18.22/-18.59	-16.52/-16.27	-17.51/-18.89	-18.96/-16.84	-16.49/-16.75	-18.89/-11.59	-8.01/-8.82	-10.53/-12.2	-6.27/-18.2	-12.04/-17.93	-18.31/-16.04	-14.12/-17.37	-18.85/-17.9	-18.15/-16.67
Θ(120°)	-13.35/-18.69	-18.73/-18.39	-19.08/-17.72	-16.43/-18.95	-19.63/-17.61	-17.92/-17.36	-16.64/-17.52	-18.07/-18.37	-19.04/-17.74	-18.18/-18.85	-16.95/-17.32	-18.39/-18.26	-18.11/-18.75	-18.92/-16.56	-15.74/-18.55	-17.7/-10.52	-9.07/-10.25	-13.19/-12.27	-6.72/-8.68	-11.31/-18.48	-17.82/-18.49	-11.74/-18.58	-18.4/-18.9	-18.27/-16.95
Θ(127.5°)	-18.15/-18.67	-18.22/-17.83	-17.95/-17.18	-14.23/-19.09	-15.93/-16.93	-17.76/-14.59	-18.99/-15.66	-18.25/-18.84	-17.68/-18.93	-18.67/-18.84	-17.95/-17.92	-18.87/-16.49	-18.42/-16.84	-16.84/-13.86	-17.94/-12.05	-18.18/-10.74	-13.48/-15.59	-17.53/-13.23	-11.81/-15.34	-11.1/-17.91	-19.39/-19.04	-15.38/-18.53	-18.08/-14.58	-18.17/-19.17
Θ(135°)	-18.47/-18.2	-18.18/-14.29	-15.77/-17.61	-15.48/-18.77	-18.77/-12.97	-18.11/-15.41	-17.79/-19.17	-15.84/-19.23	-18.17/-19.25	-18.03/-14.88	-17.66/-17.22	-18.11/-19.09	-15.77/-17.4	-18.62/-15.06	-14.05/-9.75	-18.12/-15.51	-18.1/-17.81	-17.88/-17.94	-17.89/-18.53	-18.69/-19.03	-17.82/-16.78	-18.01/-19.27	-19.08/-19.32	-18.64/-17.35
Θ(142.5°)	-13.59/-13.72	-14.3/-13.72	-15.18/-18.97	-10.68/-12.27	-18.13/-16.16	-18.28/-13.9	-13.53/-18.91	-17.49/-18.22	-18.08/-18.13	-16.23/-17.68	-15.43/-19.06	-14.6/-15.95	-19.38/-18.07	-14.52/-16.17	-19/-									



Radiated Composite Gain Data Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(157°5)	-13.7/-18.73	-18.4/-13.31	-11.54/-10.56	-12.99/-19.04	-19.24/-18.39	-18/-17.5	-14.22/-10.12	-9.6/-11.59	-13.52/-14.87	-14.48/-12.79	-10.07/-6.52	-9.7/-11.47	-15.4/-18.89	-16.63/-11.89	-13.22/-16.81	-12.06/-14.61	-18.86/-18.35	-17.17/-15.26	-18.26/-17.68	-14.68/-16.86	-18.75/-19.03	-19.08/-19.41	-17.75/-18.99	-15.35/-13.12
Θ(165°)	-18.98/-18.09	-18.08/-17.83	-18.98/-18.64	-18.17/-17.51	-15.05/-14.68	-15.11/-12.42	-10.86/-11.43	-11.34/-9.81	-9.99/-11	-14.17/-14.71	-16.31/-13.39	-11.85/-11.04	-12.65/-17.59	-18.57/-16.97	-17.91/-17.51	-18.98/-13.88	-17/-16.95	-18.43/-17.9	-18.14/-16.88	-13.43/-13.11	-15.88/-18.99	-19.36/-17.92	-16.77/-17.52	-19.13/-17.72
Θ(172.5°)	-18.14/-15.09	-13.48/-13.38	-14.45/-16.22	-18.48/-18.85	-19.15/-18.75	-18.91/-16.88	-17.76/-14.66	-13.13/-4.35	-12.9/-10.7	-9.93/-10.61	-11.37/-12.3	-12.69/-13.74	-16.08/-16.31	-18.04/-17.96	-19.05/-19.03	-18.35/-18.4	-19.2/-18.38	-18.31/-18.21	-19.23/-17.77	-18.58/-18.25	-15.1/-13.37	-9.79/-9.66	-10.91/-13.78	-19.33/-18.22
Θ(180°)	-16.86/-17.14	-19.16/-18.95	-18.54/-18.44	-19.03/-16.61	-15.09/-14.32	-13.94/-13.34	-13.49/-14.09	-14.16/-13.5	-12.1/-12.38	-13.4/-13.04	-13.82/-15.65	-17.65/-18.89	-18.3/-19.19	-17.87/-17.93	-18.46/-18.51	-18.11/-15.8	-14.48/-15.16	-13.68/-11.45	-10.96/-12.08	-12.58/-11.85	-12.49/-12.88	-13.38/-14.4	-14.7/-13.61	-12.2/-14.31
Freq(Hz)	6.175GPol.	PhiAnt. 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°)	-10.87/-6.72	-4.89/-3.62	-2.22/-1.59	-1.39/-1.59	-2.06/-3.19	-3.52/-3.09	-3.66/-4.84	-6.58/-6.62	-8.72/-11.02	-9.35/-7.59	-7.43/-7.95	-8.42/-8.01	-7.75/-7.03	-5.8/-4.85	-3.54/-2.71	-2.05/-1.49	-0.97/-0.74	-0.93/-0.71	-0.63/-0.71	-1.43/-1.45	-1.66/-3.57	-3.86/-5.2	-7.48/-9.06	-13.6/-15.72
Θ(7.5°)	-11.81/-10.41	-9.5/-8.82	-8.72/-8.41	-8.56/-8.68	-9.71/-10.46	-8.38/-5.98	-4.39/-1.84	-3.38/-2.4	-1.93/-1.68	-1.4/-2.26	-4.69/-7.06	-11.06/-16.98	-16.26/-10.61	-6.98/-4.61	-2.98/-1.86	-1.1/-0.86	-1/-1.27	-2.19/-3.22	-4.88/-6.36	-8.28/-9.2	-11.56/-11.29	-10.09/-10.51	-9.81/-9	-9.07/-9
Θ(15°)	-13.79/-17.72	-17.58/-13.19	-10.47/-10.64	-13.47/-13.82	-11.65/-10.56	-9.26/-10.41	-15.47/-18.49	-15.24/-10.94	-7.07/-3.46	-2.57/-2.57	-2.82/-4.4	-6.69/-9.87	-16.21/-15.49	-12.4/-13.57	-14.46/-10.62	-7.25/-5.3	-4.11/-3.82	-4.32/-7.68	-12.53/-17.36	-12.05/-7.64	-6.96/-7.05	-8.3/-11.84	-14.77/-17.96	-18.18/-17.47
Θ(22.5°)	-7.87/-12.42	-17.95/-13.27	-8.32/-9.15	-16.46/-19.18	-12.83/-10.34	-9.1/-7.1	-8.09/-9.4	-10.04/-9.59	-10.19/-9.65	-8.39/-9.38	-9.43/-9.41	-10.15/-12.32	-12.39/-8.58	-6/-6.9	-12.04/-19.28	-10.16/-6.3	-4.24/-3.09	-2.39/-3.84	-8.4/-13.34	-11.56/-12.57	-12.43/-13.29	-17.75/-17.62	-17.79/-10.47	-8.71/-6.42
Θ(30°)	-9.93/-7.75	-9.35/-18.63	-13.47/-12.64	-16.49/-13.82	-12.71/-13.38	-11.86/-10.93	-13.4/-11.41	-8.71/-8.1	-7.82/-8.99	-7.77/-7.71	-8.94/-10	-14.18/-19.1	-14.07/-10.22	-6.71/-5.97	-8.36/-7.39	-3.08/-2.97	-7.34/-5.67	-2.35/-3.09	-8.5/-5.92	-3.91/-5.74	-9.68/-13.45	-18.16/-13.45	-13.46/-14.74	-13.26/-11.28
Θ(37.5°)	-7.46/-5.86	-3.5/-8.44	-10.51/-7.72	-16.87/-11.04	-16.32/-12.21	-9.19/-13.42	-13.66/-16.36	-13.79/-9.19	-8.7/-5.85	-6.44/-8.9	-10.35/-8.28	-16.21/-13.93	-16.69/-10.87	-7.42/-7.03	-9.41/-4.91	-2.45/-3.72	-9.2/-11.15	-8.34/-3.51	-4.53/-10.98	-9.48/-8.25	-16.46/-18.87	-17.53/-11.57	-6.35/-7.1	-
Θ(45°)	-7.78/-6.42	-3.25/-11.7	-7/-7	-16.41/-12.56	-19.16/-10.34	-13.15/-15.8	-13.46/-15.81	-9.68/-13.05	-15.14/-8.5	-7.39/-13.1	-12.17/-10.83	-7.1/-8.66	-18.58/-13.31	-15.05/-10.98	-12.27/-8.77	-10.01/-13.81	-19.36/-18.98	-5.53/-3.41	-19/-44.1	-7.96/-9.56	-8.71/-14.26	-17.91/-17.74	-12.13/-18.4	-9.46/-4.77
Θ(52.5°)	-8.62/-8.14	-5.26/-18.04	-6.71/-10.18	-18.5/-11.91	-18.98/-12.91	-18.55/-10.45	-17.45/-8.31	-10.09/-11.56	-14.41/-18.92	-16.14/-12.83	-6.3/-10.3	-19.07/-18.67	-10.84/-13.38	-12.09/-13.73	-12.89/-7.2	-18.73/-6.74	-12.38/-16.42	-12.65/-6.28	-8.79/-7.2	-11.44/-4.38	-6.22/-15.63	-11.1/-10.51	-7.6/-8.52	-10.62/-6.32
Θ(60°)	-10.72/-10.6	-11.9/-10.01	-8.9/-10.45	-10.22/-13.28	-18.87/-17.29	-11.55/-9.98	-16.3/-7.66	-11.26/-7.32	-18.66/-14.86	-14.43/-11.03	-7.86/-10.69	-12.7/-13.92	-16.15/-8.35	-12.34/-8.82	-18.08/-8.61	-13.75/-5.69	-5.32/-18.83	-9.62/-4.04	-15.94/-7.41	-11.61/-11.74	-10.33/-10.58	-12.01/-9.2	-14.1/-6.9	-
Θ(67.5°)	-14.94/-10.93	-18.8/-6.86	-13.16/-7.82	-10.64/-18.5	-18.88/-18.19	-11.9/-17.03	-14.9/-13.73	-14.93/-9.88	-18.41/-11.73	-13.25/-11.01	-12.35/-18.93	-12.88/-11.42	-16.64/-13.22	-19.4/-10.7	-16.29/-8	-9.23/-8.48	-5.18/-13.39	-8.7/-19.1	-14.32/-8.95	-19.16/-7.46	-18.1/-10.63	-16.43/-12.64	-15.71/-18.27	-17.14/-7.75
Θ(75°)	-15.77/-13.35	-16.84/-18.22	-13.26/-9.72	-14.54/-16.25	-19.06/-17.37	-13.09/-15.54	-16.29/-18.29	-15.28/-15.25	-13.87/-12.62	-11.93/-15.76	-12.24/-16.96	-17.8/-14.08	-15.89/-15.6	-18.2/-18	-13.97/-8.71	-5.51/-7.95	-6.75/-15.8	-8.31/-18.83	-11.4/-17.43	-19.36/-14.43	-13.04/-13.37	-19.31/-18.49	-8.15/-15.41	-17.03/-6.68
Θ(82.5°)	-15.75/-14.34	-11.79/-10.18	-14.02/-11.54	-18.08/-11.68	-18.15/-15.46	-19.29/-19.19	-19.29/-18.29	-13.66/-18.37	-15.01/-17.23	-16.86/-16.24	-12.28/-14.24	-17.2/-13.83	-19.51/-14.73	-14.38/-19.12	-14.95/-8.89	-5.76/-6.07	-9.15/-11.22	-9.17/-12.94	-6.44/-18.56	-17.71/-18.57	-14.87/-13.21	-15.61/-17.47	-7.26/-16.67	-17.43/-9.93
Θ(90°)	-16.03/-17.2	-12.11/-13.1	-13.62/-17.02	-18.86/-18.71	-18.01/-14.24	-12.58/-16.58	-17.27/-18.58	-11.79/-19.16	-18.67/-18.27	-8.12/-15.97	-14.12/-11.19	-19.04/-18.04	-13.57/-15.79	-14.9/-17.36	-17.43/-7.91	-9.63/-4.98	-9.25/-11.32	-12.06/-11.2	-7.12/-14.48	-18.19/-18.35	-11.11/-16.1	-18.16/-18.08	-9.03/-19.65	-19/-9.92
Θ(97.5°)	-15.38/-18.37	-13.67/-17.73	-17.4/-18.19	-17.74/-18.58	-17.04/-14.56	-18.33/-18.4	-18.12/-14.36	-15.97/-18.85	-15.47/-18.51	-10.14/-18.37	-17.42/-18.72	-18.07/-18.13	-15.88/-13.07	-19.19/-16	-18.98/-10.45	-9.66/-6.85	-10.47/-10.3	-15.15/-12.5	-7.87/-13.37	-18.03/-18	-14.46/-11.93	-17.7/-18.89	-14.92/-12.31	-18.71/-12.39
Θ(105°)	-18.76/-17.61	-11.38/-16.59	-18.23/-17.12	-17.97/-17.51	-16.97/-13.76	-15.97/-17.5	-15.75/-15.41	-13.18/-15	-19.02/-17.03	-18.63/-13.77	-16.57/-14.26	-18.31/-18.82	-16.57/-14.26	-18.67/-18.23	-18.19/-17.36	-14.02/-7.53	-8.6/-14.1	-15.1/-12.64	-9.58/-10.71	-16.8/-14.83	-18.23/-14.12	-19.33/-18.82	-17.95/-10.21	-18.53/-19.28
Θ(112.5°)	-16.17/-14.24	-11.41/-17.69	-18.38/-15.28	-17.73/-17.9	-18.21/-16.52	-19.24/-18.85	-18.51/-16.18	-19.47/-16.93	-18.24/-17.23	-15.12/-18.96	-17.78/-14.73	-19.27/-18.43	-18.09/-17.48	-17.47/-18.88	-18.87/-16.23	-11.35/-10.13	-9.4/-10.59	-14.45/-11.41	-8.81/-8.82	-17.74/-17.3	-14.4/-10.19	-13.55/-16.74	-11.99/-12.58	-17.87/-18.07
Θ(120°)	-13.08/-13.78	-12.72/-17.25	-11.9/-16.53	-18.35/-17.53	-17.82/-14.63	-18.96/-18.91	-15.31/-18.36	-18.76/-16.5	-18.51/-14.37	-18.79/-13.68	-18.11/-17.14	-19.23/-16.64	-18.66/-18.52	-18.17/-18.45	-12.64/-17.81	-13.29/-15.44	-7.39/-9.9	-19/-12.26	-9.39/-18.98	-10.72/-18.09	-18.48/-17.66	-11.44/-18.15	-15.51/-18.24	-16.09/-19.1
Θ(127.5°)	-14.94/-15.69	-17.79/-10.56	-14.48/-18.03	-17.74/-12.81	-17.43/-17.68	-19.39/-15.21	-18.69/-14.33	-18.55/-18.37	-18.09/-17.65	-18.23/-18.75	-19.22/-18.36	-17.69/-16.27	-16.34/-18.02	-11.23/-11.89	-14.34/-12.17	-18.04/-11.86	-13.99/-12.82	-17.77/-17.92	-17.37/-18.04	-10.26/-15.8	-18.63/-18.11	-18.61/-13.62	-	-
Θ(135°)	-18.76/-17.4	-12.23/-11.11	-17.3/-17.97	-18.99/-19.66	-17.39/-18.81	-18.62/-18.48	-17.39/-13.66	-12.37/-18.78	-18.84/-18.75	-18.33/-18.97	-18.89/-18.48	-17.49/-18.23	-18.84/-15.76	-17.71/-18.73	-18.21/-17.34	-13/-11.19	-18.69/-12.96	-14.57/-14.28	-13.77/-18.79	-17.87/-17.92	-18.11/-13.81	-18.78/-10.66	-14.44/-15.16	-14.2/-17.61
Θ(142.5°)	-14.06/-10.7	-11.3/-13.35	-18.28/-14.98	-15.77/-19.12	-16.84/-17.56	-18.56/-13.32	-16.88/-18.03	-19.51/-17.49	-19.08/-18.32	-16.21/-17.54	-18.31/-17.83	-16.7/-18.98	-18.35/-19	-17.52/-18.78	-18.22/-18.56	-12.61/-14.7	-19.28/-16.96	-13.49/-18.84	-10.09/-17.66	-12.31/-12.9	-19.11/-14.04	-15.6/-18.18	-17.82/-17.81	-17.31/-18.41
Θ(150°)	-8.49/-15.89	-17.61/-17.08	-18.98/-15.83	-11.72/-16.07	-18.69/-19	-18.11/-17.39	-17.32/-12.59	-17.07/-18.09	-19.17/-18.9	-17.9/-18.99	-17.56/-19.05	-18.31/-18.17	-18.64/-18.44	-18.44/-15.95	-16.23/-15.86	-18.68/-16.82	-17.79/-12.22	-14.78/-14.99	-8.23/-13.15	-19.03/-15.15	-17.67/-19.3	-18.71/-17.64	-15.18/-17.46	-19.14/-9.67
Θ(157.5°)	-18.89/-17.31	-12.56/-13.35	-14.03/-18.05	-18.41/-18.57	-14.69/-12.17	-14.01/-18.71	-15.57/-10.92	-12.86/-16.77	-19.3/-17.67	-18.56/-19.25	-18.38/-19.28	-19.23/-19.04	-17.32/-17.27	-18.76/-17.09	-18.53/-17.38	-18.58/-19.27	-18.98/-19.03	-17.93/-18.16	-16.27/-18.68	-18.01/-18.89	-18.7/-18.03	-18.09/-18.02	-18.33/-18.77	-17.23/-12.62
Θ(165°)	-13.66/-10.45	-12.44/-19.15	-16.61/-15.25	-14.33/-13.52	-12.35/-12.73	-17.72/-17.16	-15.02/-12.74	-13.36/-15.02	-18.7/-18.99	-19.23/-18.22	-18.92/-19.17	-18.29/-18.15	-18.02/-18.4	-19.31/-18.19	-17.81/-18.06	-17.31/-18.37	-17.88/-18.04	-15.44/-16.66	-17.95/-18.65	-18.46/-18.61	-18.82/-16.03	-16.92/-18.85	-18.13/-12.56	-11.75/-17.66
Θ(172.5°)	-18.66/-17.09	-18.25/-14.64	-12.23/-12.26	-12.42/-12.71	-13.41/-15.36	-19.32/-19.13	-18.52/-18.48	-18.72/-18.99	-16.15/-17.94	-17.3/-17.75	-18.9/-18.04	-18.52/-18.91	-16.32/-17.2	-18.82/-18.07	-17.72/-18.74	-18.19/-18.57	-17.71/-18.84	-18.36/-17.97	-18.26/-17.73	-19.1/-18.06	-19.31/-17.71	-17.91/-17.72	-17.35/-14.5	-18.09/-18.15
Θ(180°)	-19.14/-17.16	-15.65/-14.8	-16.65/-17.3	-17.26/-18.4	-18.33/-18.59	-18.32/-18.89	-17.81/-16.83	-17.68/-18.36	-17.22/-19.3	-18.54/-19.09	-17.93/-19.18	-18.83/-18.03	-18.6/-19.22	-17.92/-17.44	-17.02/-15.35	-18.06/-16.95	-18.06/-17.64	-16.53/-17.88	-17.73/-16.15	-15.43/-16.27	-19.2/-18.7	-18.08/-18.11	-19.05/-18.15	-16.63/-15.7
Freq(Hz)	6.175GPol.	ThetaAnt. 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°)			



Radiated Composite Gain Data Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(7.5°)	-14.05/-12.76	-10.37/-8.62	-8.12/-7.56	-7.12/-6.68	-6.59/-5.97	-6.87/-8.54	-7.11/-6.63	-8.42/-9.64	-9.8/-13.87	-14.33/-15.19	-17.79/-18.21	-18.53/-18.27	-16.87/-14.27	-12.01/-9.9	-8.36/-6.77	-6.19/-6.32	-6.2/-6.64	-7.21/-6.39	-6.33/-6.98	-6.42/-6.58	-7.15/-9.75	-13.28/-16.05	-17.5/-17.28	-14.79/-11.89
Θ(15°)	-11.1/-6.99	-4.94/-4.77	-5.47/-6.1	-5.61/-5.16	-6.5/-9.02	-11.48/-11.91	-11.19/-9.67	-9.27/-13.73	-15.96/-19.13	-14.38/-15.68	-11.5/-15.41	-18.97/-14.41	-12.84/-14.92	-18.28/-18.71	-10.32/-5.53	-3.13/-2.64	-4.14/-8.78	-15.57/-8.44	-4.22/-3.21	-3.97/-3.53	-7.64/-9.94	-11.14/-10.72	-10.53/-15.89	-18.84/-15.22
Θ(22.5°)	-6.29/-6.97	-3.61/-2.4	-3.92/-5.01	-3.04/-2.08	-4.01/-9.86	-17.97/-15.19	-14.61/-12.77	-10.33/-16.27	-18.96/-13.15	-6.11/-4.44	-5.2/-7.98	-12.13/-17.84	-8.67/-15.31	-12.79/-15.96	-1.92/-12.46	-5.92/-3.06	-3.3/-5.97	-17.31/-4.06	-2.8/-5	-15.09/-15.85	-8.68/-7.62	-13.69/-14.56	-6.33/-3.99	-4.31/-1.14
Θ(30°)	-3.98/-5.12	-12.28/-5.04	-3.98/-6.6	-8.87/-7.54	-13.28/-15.06	-18.09/-14.55	-11.04/-13.8	-11.37/-10.09	-13.65/-12.68	-7.02/-6.87	-12.46/-17.82	-17.69/-12.06	-8.82/-11.75	-19.03/-11.89	-11.08/-18.28	-17.77/-6.18	-0.92/-0.21	-3.42/-5.34	-4.18/-6.46	-10.14/-7.4	-7.06/-8.04	-12.08/-18.27	-12.61/-6.51	-4.63/-3.98
Θ(37.5°)	-8.2/-3.66	-7.8/-12.61	-4.75/-11.6	-15.77/-11.76	-7.05/-5.91	-10.45/-11.8	-6.47/-12.79	-10.1/-0.5	-14.03/-11.6	-18.38/-12.94	-8.12/-6.4	-13.74/-11.97	-14.29/-18.21	-10.8/-9.87	-13.4/-12.28	-9.78/-15.96	-5.17/-1.86	-4.36/-5.33	-1.76/-4.95	-7.85/-4.68	-3.57/-4.52	-8.24/-15	-17.75/-10.2	-7.6/-10.03
Θ(45°)	-11.87/-8.04	-5.87/-13.67	-6.31/-11.99	-18.39/-16.6	-8.59/-7.4	-7.89/-17.19	-11.19/-13.78	-9.42/-13.95	-10.41/-8.77	-10.15/-3.94	-7.4/-11.75	-17.38/-17.03	-15.14/-10.34	-9.64/-17.84	-18.23/-17.83	-18.67/-14.57	-18.64/-6.17	-5.56/-5.96	-2.04/-14.16	-7.41/-9.57	-10.26/-11.99	-15.24/-12.97	-12.31/-15.77	-6.28/-10.3
Θ(52.5°)	-12.54/-13.11	-10.92/-11.1	-10.3/-15.63	-10.61/-18.38	-10.07/-19.02	-10.94/-18.15	-14.12/-17.82	-9.95/-17.89	-12.37/-18.9	-7.3/-4.37	-8.45/-6.65	-7.46/-11.39	-19.37/-12.04	-12.58/-9.8	-11.34/-17.99	-15.96/-9.86	-11.04/-8.33	-9.52/-6.73	-5.61/-11.97	-8.68/-18.54	-10.69/-17.12	-13.57/-16.52	-10.07/-14.46	-14.86/-8.91
Θ(60°)	-15.92/-12.38	-18.43/-16	-19.3/-17.44	-10.49/-19.54	-11.32/-18.33	-14.7/-16.28	-15.99/-17.92	-15.15/-13.82	-11.13/-7.69	-5.43/-10.51	-15.94/-9.99	-10.54/-18.42	-17.48/-12.92	-17.53/-16.53	-11/-18.36	-17.65/-18.07	-11.34/-10.48	-15.42/-10.49	-9.59/-8.38	-9.75/-7.91	-9.14/-18.54	-16.31/-17.85	-15.79/-17.95	-15.42/-8.83
Θ(67.5°)	-18.62/-12.09	-12.95/-18.58	-19.05/-17.62	-16.71/-18.68	-11.51/-15.21	-17.36/-14.5	-17.51/-17.6	-18.28/-17.88	-16.94/-6.15	-6.01/-9.43	-15.18/-15.4	-8.88/-14.47	-9.15/-10.52	-9.15/-17.98	-13.67/-15.36	-12.35/-12.24	-17.25/-12.72	-18.61/-12.48	-15.1/-11.68	-11.34/-9.71	-11.17/-17.68	-18.33/-17.08	-15.06/-14.26	-18.11/-11.97
Θ(75°)	-13.96/-13.56	-10.54/-12.88	-13.01/-16.24	-18.98/-15.81	-11.97/-11.65	-18.38/-13.66	-17.83/-17.85	-17.45/-18.6	-14.07/-6.62	-8.87/-9.39	-11.5/-18.15	-10.77/-10.62	-15.32/-8.86	-13.91/-9.51	-16.09/-19.24	-10.35/-14.72	-8.1/-17.5	-10.47/-7.3	-18.54/-18.91	-10.86/-17.22	-12.83/-18.7	-15.81/-18.47	-12.18/-11.18	-19.3/-15.08
Θ(82.5°)	-12.62/-15.53	-12.52/-11.96	-13.21/-13.66	-18.83/-13.27	-18.72/-15.19	-19.07/-12.99	-18.93/-14.85	-18.69/-19.7	-17.47/-8.46	-13.28/-12.04	-15.8/-11.11	-11.36/-13.46	-17.03/-18.24	-12.89/-10.57	-9.53/-15.19	-11.91/-13.96	-7.14/-4.29	-16.76/-18.09	-11.64/-18.85	-15.5/-18.58	-15.25/-18.02	-12.69/-13.97	-10.62/-15.91	-10.26/-15.52
Θ(90°)	-17.47/-18.09	-17.71/-12.45	-17.5/-14.21	-18.78/-13	-18.24/-15.96	-19.18/-15.19	-18.76/-11.81	-18.28/-17.29	-17.44/-9.95	-18.96/-14.2	-18.55/-12.48	-13.1/-18.2	-17.87/-18.94	-19.13/-10.14	-9.71/-4.48	-12.73/-13.63	-4.96/-17.41	-8.29/-5.45	-14.3/-15.65	-13.33/-18.57	-17.59/-12.16	-10.02/-18.13	-14.57/-15.34	-7.94/-19.45
Θ(97.5°)	-18.91/-15.76	-17.66/-14.43	-19.02/-13.92	-18.4/-13.71	-16.91/-19.25	-17.16/-16.46	-18.77/-12.24	-18.78/-14.67	-18.44/-12.61	-17.3/-17.67	-17.55/-11.44	-14.11/-13.2	-16.78/-17.83	-18.26/-13.8	-8.23/-17.88	-16.63/-10	-6.41/-14.43	-10.36/-8.38	-11.41/-15.13	-16.05/-19.15	-16.79/-11.27	-17.99/-18.62	-17.9/-11.94	-9.13/-18.63
Θ(105°)	-18.48/-13.2	-19.39/-10.7	-17.97/-19.16	-18.25/-15.03	-16.09/-17.6	-19.38/-17.13	-18.04/-17.9	-17.74/-13.47	-17.08/-15.4	-18.65/-17.73	-18.37/-17.03	-13.69/-11.56	-19.15/-18.6	-16.29/-18.09	-11.32/-14.66	-17.56/-10.15	-7.38/-15.27	-14.73/-9.86	-11.1/-12.51	-16.97/-19.24	-12.47/-10.76	-18.91/-15.52	-16.49/-13.74	-10.42/-15.52
Θ(112.5°)	-18.21/-11.98	-17.3/-12.55	-18.95/-18.16	-17.39/-17.67	-15.55/-18.59	-17.05/-17.36	-17.73/-15.6	-17.73/-18.3	-17.21/-18.86	-17.89/-18.08	-16.78/-16.53	-18.6/-19.35	-14.97/-18.67	-16.16/-17.61	-18.45/-13.94	-18.42/-12.97	-10.17/-13.62	-15.69/-11.17	-7.38/-11.79	-15.72/-17.37	-9.89/-16.11	-18.79/-18.43	-13.94/-13	-10.69/-19.3
Θ(120°)	-14.69/-11.2	-16.51/-18.55	-19.14/-17.44	-18.24/-14.52	-18.16/-17.58	-18.11/-17.93	-17.54/-18.65	-17/-18.39	-17.7/-18.94	-18.1/-19.03	-18.3/-18.66	-18.4/-18.81	-14.74/-12.99	-18.44/-18.54	-18.12/-15.73	-17.1/-15.69	-12.32/-11.85	-18.9/-14.77	-8.44/-14.29	-15.12/-19.93	-18.45/-16.99	-18.96/-18.08	-15.18/-19.06	-17.89/-17.83
Θ(127.5°)	-14.76/-13.9	-18.11/-17.76	-15.93/-18.68	-15.17/-16.55	-17.31/-17.54	-18.59/-18.08	-18.75/-19.06	-18.25/-18.57	-18.16/-18.18	-18.92/-13.88	-16.79/-13.94	-18.05/-18.86	-18.13/-13.42	-17.8/-19.12	-17.54/-18.41	-18.54/-11.93	-16.03/-12.68	-18.21/-16.09	-15.81/-17.54	-17.31/-18.24	-18.82/-14	-19.32/-16.06	-17.77/-17.51	-14.68/-12.82
Θ(135°)	-18.94/-18.23	-13.23/-12.73	-12.82/-17.38	-13.66/-18.26	-18.43/-17.86	-17.59/-17.84	-18.68/-19.11	-18.77/-19.18	-17.2/-18.41	-17.95/-18.4	-19.27/-13.69	-15.04/-16.42	-19.27/-16.87	-18.59/-17.73	-18.51/-13.32	-13.83/-17.93	-14.51/-15.15	-17.8/-19	-18.86/-19.44	-16.32/-17.42	-17.82/-11.75	-14.07/-14.96	-18.29/-15.61	
Θ(142.5°)	-11.92/-12.08	-12.09/-11.71	-12.88/-17.76	-16.06/-18.16	-17.07/-17.23	-19/-16.31	-15.67/-11.8	-18.9/-18.2	-17.81/-17.55	-17.18/-15.35	-17.71/-18.28	-16.58/-17.2	-18.66/-16.52	-18.55/-12.13	-13.78/-17.97	-18.31/-18.3	-19/-17.8	-19.01/-17.27	-17.69/-13.67	-18.92/-18.8	-14.14/-18.04	-18.01/-17.33	-18.44/-17.81	-18.66/-18.04
Θ(150°)	-11.66/-18.59	-16.59/-17.2	-13.55/-13.1	-18.65/-18.85	-18.46/-19.21	-18.25/-17.05	-18.85/-15.27	-18.06/-17.69	-14.38/-13.83	-15.02/-16.14	-18.78/-18.97	-17.8/-18.67	-17.91/-11.94	-11.6/-17.56	-17.85/-18.84	-18.99/-19.16	-17.98/-18.78	-18.15/-15.19	-18.47/-16.41	-18.04/-18.64	-18.36/-18.52	-15.68/-18.07	-18.98/-17.81	-11.26/-17.4
Θ(157.5°)	-15.23/-13.31	-11.39/-11	-13.85/-14.79	-19.06/-18.38	-14.4/-18.34	-18.96/-19.04	-14.37/-13.02	-18.4/-16.94	-15.28/-18.64	-19.21/-19.03	-18.74/-19.14	-18.41/-18.23	-17.28/-18.04	-17.64/-16.8	-18.23/-17.67	-19.23/-17.72	-18.18/-16.31	-18.79/-19.15	-19.01/-18.54	-18.29/-19.2	-18.16/-18.45	-17.18/-19.09	-18.34/-15.14	-14.27/-18.06
Θ(165°)	-9.47/-12.72	-18.63/-17.65	-13.1/-10.36	-10.96/-14.15	-17.52/-17.48	-17.21/-11.83	-10.36/-13.78	-14.86/-19.25	-18.59/-13.69	-18.77/-17.72	-19.06/-19.35	-18.68/-18.19	-17.12/-19.23	-17.5/-18.44	-18.28/-17.54	-18.04/-18.74	-18.08/-16.69	-16.47/-18.65	-18.38/-14.91	-16.32/-18.09	-16.89/-17.69	-18.8/-14.55	-12.15/-11.99	-12.64/-10.6
Θ(172.5°)	-18.14/-18.68	-16.46/-14.23	-13.76/-16.16	-19.51/-18.52	-15.89/-14.94	-9.73/-9.25	-10.38/-11.66	-13.38/-18.84	-19.17/-18.9	-14.38/-13.43	-13.92/-13.62	-16.92/-17.27	-15.88/-17.97	-17.25/-17.56	-17.71/-18.56	-18.71/-17.96	-16.71/-15.76	-17.61/-19.22	-17.19/-17.66	-17.01/-18.42	-17.35/-16.31	-16.76/-13.8	-17.28/-18.48	-17.87/-18.45
Θ(180°)	-18.28/-18.23	-18.84/-19.27	-17.76/-16.67	-14.64/-13.33	-12.65/-13.23	-13.82/-15.13	-17.75/-18.96	-17.89/-17.92	-17.31/-18.34	-19.1/-18.85	-18.2/-15.87	-18.29/-18.01	-17.64/-18.43	-17.73/-18.84	-17.67/-18.07	-17.4/-17.93	-19.15/-18.34	-17.71/-18.18	-17.7/-18.49	-17.56/-17.37	-17.87/-18.78	-18.18/-17.93	-17.98/-18.47	-18.48/-18.47
Freq(Hz)	6.995GPol.	ThetaAnt.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°)	-5.96/-6.26	-7.4/-8.22	-9.39/-11.44	-13.16/-14.81	-18.3/-18.03	-16.55/-17.95	-14.23/-11.46	-8.89/-8.06	-6.96/-5.59	-5/-4.4	-3.97/-3.67	-3.47/-3.85	-4.59/-5.43	-6.17/-7.57	-9.88/-12.29	-15.71/-15.94	-17.67/-17.18	-18.17/-15.94	-13.37/-12.52	-11.44/-9.25	-9.12/-7.93	-7.31/-7.76	-7.02/-7.58	-7.83/-6.98
Θ(7.5°)	-4.03/-4.17	-4.35/-4.7	-5.31/-5.67	-6.45/-7.23	-8.18/-10	-12.54/-14.06	-16.3/-16.07	-13.27/-14.93	-17.36/-14.49	-14.38/-12.75	-11.83/-11.86	-10/-9.99	-9.71/-7.54	-6.21/-6.14	-6.73/-7.03	-7.83/-9.68	-11.55/-14.86	-18.68/-18.6	-17.82/-11.97	-9.32/-6.63	-5.02/-3.76	-3.11/-2.2	-2.56/-3.18	-3.81/-4.24
Θ(15°)	-2.71/-2.02	-2.43/-2.64	-2.52/-2.87	-3.67/-5.35	-7.3/-9.29	-10.34/-9.31	-8.08/-7.99	-8.54/-9.51	-12.85/-17.61	-18.11/-18.7	-15.83/-14.48	-14.55/-17.39	-17.84/-17.22	-9.77/-6.6	-5.13/-4.79	-4.98/-7.08	-10.55/-12.88	-11.85/-7.1	-4.13/-3.7	0/-0.05	-0.96/-2.5	-4.67/-4.25	-6.08/-5.54	-4.27/-3.29
Θ(22.5°)	-2.2/-1.33	-1.43/-2.37	-4.82/-8.93	-13.57/-19.06	-16.04/-9.77	-7.4/-6.14	-5.51/-6.6	-6.55/-7.65	-6.85/-7.14	-10.65/-13.18	-9.86/-8.5	-7.88/-8.21	-13.04/-14.45	-13.3/-12.3	-12.28/-13.35	-15.91/-18.76	-17.31/-9.06	-4.11/-0.14	1.54/-1.5	0.870/8.2	0.630/18	-0.22/-2.12	-4.18/-2.88	
Θ(30°)	-2.55/-1.27	-0.93/-0.18	-2.31/-4.56	-6.14/-10.56	-8.43/-4.96	-3.4/-3.42	-3.02/-3.46	-7.03/-18.38	-10.44/-5.31	-2.61/-1.46	-0.81/-1.76	-3.9/-6.28	-9.49/-9.44	-10.03/-16.27	-13.45/-8.38	-17.71/-15.8	-10.51/-5.26	-5.25/-8.71	-4.86/-3.04	-4.06/-5.24	-5.35/-4.46	-2.94/-4.82	-5.56/-4.65	-5.49/-8
Θ(37.5°)	0.650/59	-1.37/-0.98	-2.78/-0.76	-1.4/-3.02	-4.43/-5.89	-2.96/-2.19	-4.41/-3.57	-2.21/-0.57	0.16/-1.57	-3.32/-3.78	-3.53/-2.51	-2.3/-6.4	-6.93/-2.3	0.1/-3.42	-12.69/-10.65	-6.11/-9.1	-8.09/-4.28	-2.4/-2.43	-1.16/-2.16	-10.96	-0.61/-3.53	-3.01/-9.1	0.290/6	-1.03/-0.87
Θ(45°)	3.492/64	0.712/29	-1.90/-44	-0.61/-2.51	0.07/-0.78	2.320/72	-0.950/-47	-1.47/-0.81	1.560/23	0.950/02	-0.84/-3.6	-10.05/-9.35	-2.29/-2.24	-1.33/-6.82	-10.03/-2.93	-6.54/-0.06	0.65/-0.44	-0.27/-4.02	0.31/11	-3				



Radiated Composite Gain Data_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(60°)	-5.61/3.84	-6.07/-6.63	-8.49/-4.61	-10.08/3.57	-3.33/-10.05	-13.22/-9.38	-12.82/-8.04	-4.85/-9.1	-18.07/-11.12	-8.73/-9.32	-4.34/-2.85	-6.17/-7.13	-9.27/-14.61	-10.4/-8.62	-14.78/-7.97	-16.51/-18.23	-9.29/-18.27	-13.32/-18.16	-18/-11.24	-17.31/-7.14	-10.47/-13.06	-9.74/-4.58	-4.15/-12.96	-6.62/-6.22
Θ(67.5°)	-5.62/-2.96	-4.91/-7.57	-8.61/-3.43	-7.19/-4.78	-4.83/-7.24	-8.92/-9.77	-13.92/-11.57	-7.82/-8.64	-18.36/-18.84	-13.79/-7.83	-3.31/-5.76	-12.75/-7.15	-12.44/-9.91	-17.31/-19.2	-10.67/-6.89	-8.22/-19	-8.46/-17.9	-19.05/-13.35	-14.54/-8.81	-10.18/-10.54	-14.33/-10.77	-10.75/-7.7	-3.29/-8.85	-6.81/-7.58
Θ(75°)	-3.21/-1.84	-3.51/-6.2	-13.99/-5.48	-10.89/-6.58	-5.73/-5.32	-8.62/-10.95	-16.62/-11.26	-13.97/-8.64	-16.18/-13.88	-18.95/-13.92	-4.8/-4.38	-13.3/-7.38	-8.55/-8.37	-11.71/-12.94	-16.35/-9.33	-10.55/-12.51	-7.45/-15.91	-19.28/-5.42	-12.67/-2.08	-9.84/-9.34	-13.04/-12.45	-13.04/-8.98	-4.8/-7.51	-5.25/-7.9
Θ(82.5°)	-5.26/-1.82	-4.96/-7.42	-16.77/-6.17	-10.55/-7	-6.66/-6.11	-8.71/-14.95	-17.74/-18.3	-18.89/-9.51	-16.67/-11.72	-19.03/-13.43	-7.69/-7.7	-17.93/-6.53	-12.17/-6.6	-12.95/-8.08	-12.27/-12.81	-9.55/-10.27	-16.39/-17.47	-18.57/-5.1	-6.59/-1.8	-9.11/-10.76	-19.03/-10.94	-12.43/-8.94	-8.65/-7.63	-5.46/-10.68
Θ(90°)	-5.56/-2.6	-7.17/-8.06	-18.88/-8.06	-16.88/-8.73	-7.31/-6.69	-9.44/-13.96	-19.31/-18.66	-18.75/-9.1	-10.73/-12.51	-13.75/-16.05	-8.8/-17.79	-9.13/-5.6	-8.52/-10.06	-12.16/-17.73	-14.12/-8.13	-12.58/-17.45	-18.24/-5.24	-18.01/-2.71	-16.52/-9.66	-17.42/-13.13	-10.94/-9.27	-8.87/-6.31	-8.2/-10.41	
Θ(97.5°)	-8.53/-4.35	-7.85/-8.92	-19.08/-9.37	-14.83/-8.79	-8.57/-8.51	-11.84/-16.24	-17.68/-18.89	-18.51/-11.33	-11.75/-13.82	-15.95/-16.46	-18.07/-10.36	-15.05/-8.17	-12.69/-9.25	-7.18/-7.22	-12.43/-16.67	-16.83/-10.68	-16.66/-15.82	-16.48/-9.67	-15.53/-6.21	-17.71/-16.49	-12.14/-11.95	-9.91/-9.04	-10.12/-5.67	-13.47/-9.23
Θ(105°)	-9.27/-5.06	-8.96/-10.63	-16.63/-9.37	-12.54/-8.94	-8.62/-10.86	-16.32/-15.6	-12.21/-17.66	-17.81/-14.15	-13.73/-13.53	-11.63/-12.27	-14.58/-16.74	-9/-8.42	-9.03/-15.85	-8.68/-7.9	-8.98/-17.97	-15.05/-18.54	-14.76/-18.36	-11.33/-18.78	-15.6/-7.37	-15.76/-17.14	-15.81/-11.12	-11.23/-6.96	-15.14/-6.78	-14.68/-7.69
Θ(112.5°)	-12.5/-6.11	-10.99/-10.82	-17.56/-10.54	-9.98/-9.56	-8.22/-12.06	-17.95/-18.32	-16.76/-18.94	-19.19/-14.7	-15.78/-18.74	-15.25/-15.63	-15.33/-9.21	-9.37/-12.78	-10.39/-6.19	-9.91/-16.16	-12.31/-16.01	-16.41/-16.21	-19.02/-17.71	-12.06/-18.12	-16.05/-8.22	-18.17/-12.14	-9.4/-12.14	-11.83/-10.46	-12.36/-8.22	-18.67/-6.83
Θ(120°)	-10.6/-7.81	-8.54/-12.26	-16.18/-11.33	-10.55/-11.74	-6.75/-7.75	-14.5/-18.74	-18.03/-15.84	-17.22/-18.82	-15.43/-18.49	-15.93/-15.45	-17.58/-13.98	-7.07/-7.81	-16.27/-8.04	-10.27/-11.17	-17.91/-11.24	-16.21/-13.53	-11.33/-13.01	-16.25/-17.42	-17.4/-9.3	-17.96/-16.8	-8.06/-6.16	-11.13/-15.39	-11.98/-13.47	-13.56/-7.89
Θ(127.5°)	-11.44/-9.98	-7.91/-10.35	-15.9/-11.52	-8.13/-13.5	-9.76/-8.18	-12.32/-17.3	-16.69/-9.88	-17.35/-14.27	-15.09/-18.07	-17.97/-13.03	-11.94/-17.26	-19.35/-17.46	-10.2/-14.6	-17.55/-11.95	-11.37/-14.05	-10.99/-12.13	-11.75/-18.47	-17.87/-18.02	-12.92/-8.36	-14.68/-11.58	-11.77/-12.34	-12.74/-10.62	-14.75/-14.27	-14.94/-9.3
Θ(135°)	-9.3/-11.99	-7.84/-11.42	-18.87/-9.84	-7.35/-10.11	-15.95/-10.89	-11.61/-12.5	-18.03/-13.32	-16.5/-12.43	-15.29/-17.36	-12.73/-15.51	-13.87/-19.13	-18.28/-18.84	-19.07/-18.52	-19.13/-9.34	-15.83/-15.72	-13.59/-15.17	-14.31/-14.82	-14.88/-13.89	-9.04/-10.69	-10.66/-17.66	-16.13/-12.23	-18.47/-16.88	-17.37/-12.61	
Θ(142.5°)	-12.22/-9.69	-11.83/-16.19	-17.47/-9.02	-6.48/-10.27	-17.73/-12.47	-11.11/-11.14	-14.31/-16.68	-18.49/-13.77	-9.05/-12.6	-12.1/-12.24	-18.26/-12.02	-16.87/-18.68	-14.59/-13.67	-9.92/-9.3	-7.56/-9.96	-10.24/-18.31	-18.23/-16.36	-18.42/-16.57	-12.95/-16.15	-17.72/-13.07	-14.9/-18.46	-17.95/-11.32	-10.37/-10.54	
Θ(150°)	-7.81/-9.89	-15.69/-18.01	-12.49/-7.75	-7.33/-8.69	-11.11/-17.4	-16.06/-12.05	-17.27/-19.16	-16.91/-18.01	-15.58/-12.97	-14.49/-15.82	-9.91/-8.5	-8.33/-9.34	-6.16/-8.69	-6.1/-8.43	-19.07/-18.45	-15.74/-15.91	-17.13/-15.53	-18.37/-7.67	-8.04/-18.38	-13.55/-16.79	-18.13/-18.77	-18.38/-17.18	-17.48/-18.71	-11.61/-8.28
Θ(157.5°)	-18.71/-17.89	-18.09/-18.84	-12.11/-8.72	-8.04/-7.91	-8.36/-11.88	-13.26/-13.94	-11.44/-8.73	-8.84/-9.01	-11.09/-11.38	-9.02/-6.39	-6.02/-8.34	-8.85/-6.13	-6.14/-10.72	-18.19/-15.71	-15.85/-17.44	-16.11/-16.09	-19.45/-10.93	-10.98/-8.9	-10.92/-18.91	-17.9/-17.51	-18.77/-18.44	-17.13/-12.53	-12.09/-15.44	-14.72/-14.51
Θ(165°)	-14.51/-15.01	-19.35/-18.7	-11.24/-8.84	-7.41/-6.1	-7.78/-11.23	-12.39/-17.96	-14.45/-12.9	-13.09/-11.32	-10.4/-7.4	-5.49/-4.86	-6.16/-10.48	-18.18/-14.24	-10.71/-11.89	-17.85/-18.25	-16.13/-14.34	-18.02/-16.11	-11.37/-11.69	-14.53/-16.96	-18.7/-12.35	-12.1/-14.32	-14.08/-13.55	-15.1/-18.55	-18.55/-15.77	
Θ(172.5°)	-13.59/-12.06	-10.99/-10.27	-11.3/-12.72	-10.63/-10.83	-11.97/-10.46	-11.01/-14.87	-14.4/-16.18	-17.96/-14.68	-12.28/-11.03	-10.87/-11.91	-15.53/-16.45	-11.3/-9.52	-10.41/-12.75	-17.2/-18.25	-17.92/-18.99	-18.35/-17.31	-18.84/-17.31	-13.34/-17.08	-18.99/-19.04	-17.38/-18.44	-16.39/-16.9	-18.06/-18.23	-18.81/-18.28	-17.79/-18.56
Θ(180°)	-13.12/-13.57	-14.64/-16.69	-19.04/-16.97	-16.27/-15.79	-14.55/-14.52	-15.65/-15.1	-12.62/-13.53	-17.07/-10.59	-12.25/-10.78	-10.32/-10.2	-9.4/-8.73	-8.54/-10.56	-15.05/-15.73	-14.54/-13.38	-12.21/-12.21	-14.79/-18.55	-18.95/-17.68	-16.8/-17.14	-18.49/-13.96	-13.7/-15.21	-15.7/-15.42	-13.51/-12.03	-11.76/-12.3	-11.09/-11.54
Freq(Pol)	5.6GPol	ThetaAnt. 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°)	-7.59/-7.44	-8.21/-8.06	-4.8/-9.72	-9.16/-8.38	-10.38/-11.41	-9.75/-12.14	-12.26/-11.78	-13.04/-11.73	-11.56/-11.65	-11.29/-9.75	-8.94/-7.67	-6.59/-6.64	-7.01/-6.74	-7.43/-8.82	-8.97/-8.93	-10.44/-11.5	-10.95/-10.06	-10.46/-10.2	-8.92/-8.32	-7.57/-7.13	-6.88/-6.04	-6.34/-6.93	-5.9/-6.32	-7.27/-8.37
Θ(7.5°)	-4.35/-4.03	-3.97/-4.16	-4.67/-6.28	-8.01/-10.01	-10.81/-13.47	-13.02/-12.51	-13.76/-13.78	-7.84/-7.6	-8.33/-8.35	-8.19/-9.51	-7.76/-6.32	-5.17/-4.66	-4.74/-5.59	-4.41/-4.5	-4.56/-6.41	-6.78/-9.95	-10.19/-9.13	-10.12/-10.06	-10.15/-10.39	-9.75/-8.31	-6.9/-6.53	-6.26/-6.06		
Θ(15°)	-7.79/-8.73	-10.21/-13.1	-14.06/-11	-9.77/-8.86	-7.61/-9.36	-13.84/-18.98	-18.56/-12.75	-9.37/-8.95	-9.44/-10.6	-12.36/-13.02	-13.28/-12.15	-11.1/-11.02	-10.14/-8.67	-6.73/-5.24	-3.95/-2.77	-2.22/-1.79	-1.76/-2.14	-2.79/-3.78	-5.01/-5.32	-4.94/-4.95	-4.73/-4.41	-3.87/-3.23	-3.35/-3.74	-5.26/-6.56
Θ(22.5°)	-11.43/-12.35	-15.13/-15.55	-12.01/-7.77	-7.1/-6.77	-4.94/-5.62	-6.66/-7.1	-11.64/-10.23	-9.72/-9.31	-10.88/-16.94	-12.39/-7.94	-6.25/-5.05	-4.01/-3.43	-3.31/-6.17	-1.58/-7.5	-1.09/-2.53	-3.7/-3.91	-4.43/-6.36	-8.27/-8.53	-7.42/-4.54	-2.77/-1.82	-1.82/-2.75	-3.97/-3.57	-7.33/-9	-11.93/-12.61
Θ(30°)	-7.01/-14.44	-14.42/-8.21	-9.19/-12.34	-14.69/-11.24	-8.65/-8.26	-5.88/-5.33	-5.39/-6.23	-10.47/-9.3	-6.28/-6.47	-6.19/-8.49	-7.46/-6.41	-4.32/-3.63	-4.35/-4	-2.44/-3.6	-6.12/-5.55	-2.26/-5.07	-6.17/-6.25	-8.95/-9.3	-5.71/-3.26	-2.93/-3.62	-4.55/-18.03	-7.03/-7.84	-2.96/-5.16	
Θ(37.5°)	-5.04/-10.69	-7.44/-5.95	-5.77/-7.81	-8.58/-7.42	-7.77/-8.86	-10.71/-9.52	-5.83/-3.3	-2.92/-7.64	-4.95/-0.58	-1.07/-4.17	-5.83/-6.66	-2.97/-2.98	-2.91/-3.72	-5.33/-7.68	-7.24/-5.08	-4.76/-6.49	-7.83/-7.36	-8.21/-6.54	-4.63/-4.14	-2.08/-0.46	-0.8/-3.19	-6.81/-5.54	-0.24/-1.49	1.17/-2.3
Θ(45°)	-1.14/-4.75	-10.41/-7.25	-2.2/-9.33	-5.22/-5.13	-3.93/-3.16	-5.67/-9.49	-9.89/-3.2	0.51/-0.04	-3.880.98	1.8/-1.74	-4.56/-4.71	-4.57/-1.37	-1.03/-1.14	-1.36/-3.97	-3.86/-3.09	-5.89/-6.63	-4.45/-1.03	-0.34/-4.11	-7.66/-1.93	-6.620.12	1.72/-0.43	0.210.17	0.893.16	2.17/-0.68
Θ(52.5°)	1.52/-1.5	-4.56/-4.67	-0.29/-3.4	-7.94/-7.04	-7.78/-9.75	-17.31/-8.56	-3.12/-1.39	-4.57/2.4	2.66/-2.32	-7.88/-7.04	-3.08/-2.79	-4.53/-2.65	-2.07/-2.12	1.470.63	0.431.85	2.442.91	3.611.39	-2.860.32	1.352.24	2.172.24	3.851.97	1.084.06	2.960.67	
Θ(60°)	2.85/0.56	-1.55/6.6	0.25/-1.81	-4.08/-9.59	-14.59/-14.9	-6.14/-1.62	-2.6/-9.7	-17.8/-7.18	-12.46/-0.55	0.36/-2.4	-4.78/-9.87	-4.6/-5.74	-3.82/-2.68	0.270.86	3.813.44	1.572.28	1.840.86	2.461.07	-2.31/-0.16	0.681.24	2.352.69	4.610.96	1.283.46	3.272.3
Θ(67.5°)	3.752.51	-2.8/-6.97	1.7/-0.14	-2.39/-7.68	-14.77/-9.93	-2.071.53	1.992.59	-8.29/-7.5	-8.07/-4.92	-3.02/-1.78	-6.16/-7.06	-5.92/-2.98	-0.870.92	2.833.77	5.314.75	2.42.37	2.921.62	2.610.57	-3.291.05	-1.630.2	22.36	3.170.09	0.592.21	3.663
Θ(75°)	3.082.91	-2.86/-9.24	1.05/-0.8	-4.61/-15.11	-18.77/-8.77	-1.921.94	2.51/-1.4	-5.4/-2.06	-4.29/-9.64	-4.57/-3.59	-4.11/-7.26	-4.37/-8.36	-0.19/-1.58	2.122.6	3.714.68	2.092.53	5.475.03	4.241.49	-3.892.08	-1.64/-1.01	0.322.13	0.52/-1	0.62/-0.35	2.812.81
Θ(82.5°)	1.92/3.4	-3.21/-9.46	-0.81/-3.31	-7.01/-18.11	-12.33/-6.45	-2.020.96	1.48/-3.04	-4.99/-1.15	-3.97/-10.64	-7.31/-3.21	-6.95/-6.94	-7.18/-3.61	0.47/-0.56	1.611.31	2.92.81	0.823.22	6.95/-6.46	4.241.05	-4.332.74	-2.24/-1.6	-10.68	-2.85/-1.17	-0.41/-1.82	1.111.62
Θ(90°)	0.120.11	-5.13/-10.14	-3.59/-5.63	-11.92/-18.19	-13.39/-27	-3.41/-0.7	-0.2/-2.96	-7.77/-1.99	-4.68/-10.58	-11.24/-7.61	-7.89/-9.35	-6.03/-10.32	-2.61/-4.1	0.34/0.1	-0.440.21	-1.94/-0.24	4.956.22	3.921.55	-2.990.55	-3.54/-0.47	-3.23/-1.67	-6.72/-2.18	-0.92/-5.97	-0.550.18
Θ(97.5°)	-1.44/-2.17	-8.37/-12.1	-6.35/-8.34	-19.24/-18.96	-14.83/-9.43	-6.19/-2.27	-1.85/-4.71	-7.8/-4.34	-7.23/-12.64	-15.24/-10.15	-13.43/-18.56	-11.85/-7.69	-5.11/-4.3	-2.65/-3	-0.34/-1.79	-6.78/-7.75	2.292.78	-0.01/-2.28	-6.54/-2.13	-6.51/-6.38	-4.86/-5	-9.8/-3.51	-4.16/-7.37	-1.93/-1.51
Θ(105°)	-2.28/-4.32	-16.31/-15.14	-11.61/-12.66	-13.91/-12.75	-7.99/-8.39	-3.46/-4.08	-8.93/-5.02	-8.17/-15.52	-7.31/-10.22	-15.32/-15.79	-10.25/-13.16	-5.35/-6.23	-2.69/-4.76	-4.3/-1.3	-6.45/-7.35	-0.55/-1.82	-10.71/-10.56	-8.24/-6.76	-10.42/-9.36	-11.28/-8.21	-12.23/-5.54	-9.55/-6.51	-3.28/-3	
Θ(112.5°)	-3.09/-8.44	-18.89/-18.45	-14.49/-16.73	-																				



Radiated Composite Gain Data_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(112.5°)	-6.48/-7.89	-15.93/-14.13	-9.76/-13.1	-15.95/-14.82	-10.42/-12.53	-17.99/-11.9	-18.46/-18.37	-15.68/-18.06	-13.49/-15.19	-11.62/-19.16	-10.8/-10.1	-7.74/-8.42	-6.48/-6.88	-8.29/-13.62	-9.95/-17.93	-14.72/-19.06	-18.01/-18.28	-18.91/-12.77	-11.01/-15.12	-13.05/-17.11	-8.34/-13.28	-15.46/-12.21	-16.65/-18.14	-11.07/-8.16
Θ(120°)	-8.18/-9.16	-17.83/-10.82	-10.99/-11.35	-12.42/-17.46	-11.42/-12.59	-18.74/-18.55	-16.91/-18.75	-19.02/-18.88	-17.47/-18.7	-13.22/-13.88	-16.96/-14.84	-8.85/-9.43	-15.09/-7.4	-8.7/-12.17	-9.04/-16.3	-17.75/-19.77	-18.65/-12.92	-17.55/-12.18	-18.11/-15.63	-8.14/-15.77	-18.41/-11.96	-19.15/-17.86	-9.02/-7.8	
Θ(127.5°)	-9.31/-14.09	-16.78/-10.47	-10.84/-12.68	-16.26/-18.51	-14.84/-11.29	-18.56/-12.16	-14.16/-18.21	-17.64/-15.33	-15.3/-18.91	-15.13/-17.81	-13.79/-17.81	-18.36/-17.77	-10.73/-12.79	-13.69/-13.86	-9.44/-17.15	-13.92/-12.11	-14.35/-17.7	-17.14/-16.39	-11.62/-17.41	-18.71/-17.78	-15.63/-18.38	-15.62/-9.99	-9.29/-10.38	
Θ(135°)	-11.73/-18.92	-15.66/-12.88	-11.65/-15.01	-13.52/-15.65	-15.96/-11.96	-15.94/-18.72	-15.11/-16.02	-17.35/-19.21	-14.38/-18.31	-14.76/-19.32	-14.98/-18.29	-17.39/-19.02	-14.82/-17.06	-12.87/-18.38	-18.17/-13.94	-14.18/-18.91	-18.98/-18.81	-18/-18.61	-17.91/-18.06	-15.78/-18.39	-18.58/-17.05	-18.51/-18.17	-11.01/-10.28	-10.23/-9.28
Θ(142.5°)	-19.02/-18.29	-18.94/-17.07	-17.46/-15.55	-14.73/-16.14	-18.46/-10.66	-10.67/-13.12	-17.69/-13.12	-11.36/-19.04	-18.33/-18.58	-11.99/-8.74	-10.39/-14.32	-15.06/-13.38	-8.12/-9.11	-8.97/-9.98	-8.15/-7.83	-11.65/-18.12	-18.27/-18.49	-18.11/-16.94	-15.46/-12.13	-18.12/-14.44	-14.35/-18.81	-19.15/-18.22	-11.88/-10.12	-9.18/-10.93
Θ(150°)	-18.44/-18.3	-16.67/-13.45	-10.43/-9.82	-9.73/-13.23	-18.57/-18.26	-18.66/-18.43	-18.13/-17.83	-18.65/-17.61	-18.31/-13.72	-11.91/-16.5	-12.49/-9.14	-9.7/-9.23	-8.14/-9.75	-11.88/-10.93	-17.39/-16.63	-12.85/-14.49	-14.24/-12.01	-18.13/-12.84	-18.91/-15.16	-16.82/-18.03	-18.31/-15.59	-15.73/-16.5	-14.44/-18.94	
Θ(157.5°)	-18.96/-14.84	-12.11/-9.06	-7.15/-8.51	-13.39/-19.26	-17.19/-11.64	-12.84/-16.29	-18.75/-15.67	-16.34/-17.84	-18.85/-15.31	-18.12/-15.83	-9.25/-7.91	-11.12/-11.54	-9.11/-10.98	-17.14/-18.49	-19.16/-18.04	-16.09/-15.44	-15.9/-19.73	-17.72/-12.51	-12.67/-18.84	-19.14/-11.28	-13.68/-18.87	-13.96/-12.58	-15.02/-19.74	-17.97/-17.42
Θ(165°)	-17.66/-18.54	-18.95/-13.86	-11.63/-14.74	-16.22/-16.75	-19.2/-16.56	-19.2/-16.76	-16.2/-14.28	-11.99/-11.92	-11.77/-11.86	-11.63/-11.45	-11.22/-11.84	-16.03/-18.34	-10.48/-9.18	-15.38/-18.93	-19.14/-13.35	-11.01/-12.75	-19.52/-18.09	-14.38/-11.21	-13.5/-14.75	-9.57/-10.42	-16.04/-15.44	-15.92/-19.08	-18.4/-17.38	-13.73/-14.37
Θ(172.5°)	-11.3/-11.32	-11.68/-11.7	-11.46/-10.79	-10.63/-10.05	-10.58/-12.15	-11.75/-15.42	-16.53/-14.79	-16/-13.5	-12.52/-10.01	-8.74/-9.72	-12.6/-17.5	-18.63/-15.53	-12.53/-12.35	-14.99/-18.74	-17.5/-17.92	-18.47/-18.25	-18.81/-17.95	-14.54/-15.01	-18.56/-16.13	-15.38/-19.17	-18.11/-17.86	-17.34/-16.76	-13.12/-11.85	
Θ(180°)	-11.93/-11.69	-13.05/-14.43	-14.12/-16.4	-18.05/-16.35	-17.11/-17.33	-18.24/-19.3	-18.19/-18.36	-15.69/-14.18	-13.7/-14.34	-15.71/-17.62	-18.64/-18.56	-19.06/-18.68	-18.19/-19.27	-13.77/-11.9	-10.52/-8.83	-8.33/-8.96	-9.87/-12.66	-14.75/-15.21	-17.07/-15.8	-18.5/-19	-18.75/-18.13	-18.27/-17.85	-15.31/-13.28	-13.4/-12.43
Freq(Hz)	5.885GPol.	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°)	-6.7/-7.16	-6.59/-5.65	-6.63/-6.79	-6.27/-6.48	-5.98/-6.04	-7.67/-7.21	-8.52/-11.94	-11.68/-14.45	-16.07/-15.6	-12.36/-10.28	-8.85/-6.99	-5.67/-4.73	-4.07/-3.78	-4.35/-4.43	-5.36/-7.03	-8.27/-8.79	-9.75/-11.26	-11.93/-13.1	-13.48/-12.71	-10.79/-9.85	-9.27/-9.28	-9.17/-6.5	-6.75/-6.19	-6.37/-6.51
Θ(7.5°)	-1.03/-17.7	-2.39/-4.52	-6.73/-10.72	-14.23/-17.5	-18.37/-12.65	-9.99/-9.77	-8.09/-6.82	-5.43/-5.48	-4.58/-4.32	-4.32/-4.21	-4.56/-4.86	-5.33/-5.7	-5.75/-7.9	-5.64/-8.45	-4.41/-4.23	-3.98/-4.1	-3.95/-4.54	-6.34/-6.65	-9.14/-13.02	-16.63/-17.96	-18.67/-12.87	-9.84/-7.12	-4.95/-3.2	-2.92/-2.66
Θ(15°)	-3.42/-2.98	-2.92/-4.05	-4.89/-6.97	-10.56/-13.01	-10.2/-8.88	-7.29/-6.88	-4.43/-2.86	-1.72/-0.75	0.040/59	0.60/22	-0.5/-1.14	-2.09/-3.48	-4.29/-4.24	-4.52/-3.76	-2.6/-1.77	-1.21/-0.89	-1.15/-2.17	-2.65/-3.32	-3.15/-3.08	-3.15/-2.73	-2.28/-1.89	-2.4/-2.02	-	-
Θ(22.5°)	-10.54/-8.72	-4.39/-2.57	-2.13/-1.83	-1.33/-1.68	-2.54/-4.13	-7.26/-7.72	-5.77/-3.99	-3.29/-2.44	-1.35/-0.52	-0.53/-1.53	-3.71/-5.43	-7.9/-15.07	-15.18/-12.1	-10.33/-9.1	-7.1/-4.17	-2/-0.68	-0.160/26	-0.1/-1.46	-1.27/-1.06	-2.18/-3.49	-5.69/-9.61	-13.71/-9.81	-7.38/-9.07	-10.62/-11.79
Θ(30°)	-18.84/-7.84	-5.84/-6.97	-6.1/-2.43	0.060/62	-0.14/-0.43	-16.24/-12.14	-5.16/-2.49	-1.6/-2.3	-3.07/-3.09	-2.67/-3.79	-8.33/-17.4	-6.47/-6.66	-3.78/-2.29	-3.47/-9.57	-6.91/-4.25	-1.41/-0.41	-0.4/-0.82	-1.91/-2.06	-1.28/-0.95	-1.67/-1.51	-11/-5.2	-1.690/-3.4	1.77/1.81	-0.59/-3.73
Θ(37.5°)	-5.06/-4.87	-4.91/-4.54	2.082/55	1.450/28	-0.79/-2.5	-4.64/-6.99	-0.61/-7.96	-4.16/-5.92	-1.46/-5.15	-3.85/-6.12	-5.45/-9.95	-6.95/-4.48	-4.74/-7.46	-11.18/-7.76	-6.19/-5.07	-7.25/-5.58	-4.87/-8.15	-9.22/-7.31	-4.56/-1.99	-2.43/-7.14	-6.82/-5.28	-2.28/-3.42	1.120/9.8	-4.33/-15.84
Θ(45°)	-1.32/-6.67	-2.77/2.4	3.640/64	-6.32/-6.25	-2.63/-2.83	-3.87/-3.97	-8.04/-18.36	-15.16/-9.04	-11.65/-17.25	-8.54/-11.55	-15.83/-8.63	-5.97/-5.52	-4.6/-2.63	-5.31/-5.3	-12.7/-8.5	-4.84/-10.91	-12.18/-4.72	-2.62/-6.6	-11.28/-8.75	-4.92/-4.76	-6.79/-2.04	-2.99/-12.65	-1.24/-1.47	-3.32/-0.84
Θ(52.5°)	-2.15/-8.41	-7.82/-0.11	0.91/-2.7	-1.28/-0.9	-2.3/-1.64	-1.42/-3.34	-2.83/-2.23	-2.87/-10.67	-10.14/-18.72	-17.01/-18.37	-18.73/-18.64	-0.3/-9.2	-6.36/-12.88	-2.64/-21.3	0.65/-2.58	-1.93/-1.94	2.93/-0.8	-3.79/-5.07	-2.680/08	-0.91/-1.93	-7.98/-5.31	0.460/02	1.48/1.52	-
Θ(60°)	-3.59/-10.52	-6.3/-0.08	-0.08/-3.24	-1.14/-4.7	-6.849/-0.21	2.490/43	1.113/31	3.3/-2.23	-1.127/-10.75	-14.17/-15.22	-9.51/-4.78	-18.63/-9.3	-1.126/-0.66	-2.138/-1.28	1.723/62	2.660/6	-2.34/-0.39	2.45/-0.88	-7.58/-11.41	-3.91/25	1.19/-1.85	-0.160/26	0.710/66	1.690/38
Θ(67.5°)	-4.78/-12.9	-3.18/-0.24	-2.6/-7.58	-5.75/-9.2	-7.84/-0.32	2.450/22	0.834/77	4.51/-0.32	-3.93/-5.27	-9.93/-8.09	-3.37/-6.06	-11.96/-2.71	2.871/81	1.01/1.94	5.345/0.4	3.742/17	1.970/38	2.71/0.05	-2.47/-9.69	-2.570/88	1.44/-3.29	-2.533/71	0.04/1.17	0.46/-1.72
Θ(75°)	-4.92/-17.91	-3.32/-1.51	-8.55/-17.76	-8.07/-1.81	-2.37/-1.43	2.08/-0.68	1.254/78	4.31/-1.51	-0.68/-0.34	-10.46/-5.38	-2.95/-3.58	-11.66/-0.61	0.863/39	1.01/1.34	4.84/-5.49	3.522/89	4.652/29	3.991/89	1.94/-2.75	-8.820/14	-0.14/-3.77	0.06/4.74	-2.61/-7.9	-0.67/-3.01
Θ(82.5°)	-6.22/-18.32	-4.97/-4.62	-18.87/-11.54	-5.58/-0.55	-1.04/-2.77	0.173/-27	0.034/05	3.5/-5.09	-0.62/-3.32	-12.25/-5.45	-2.92/-9.2	-2.44/-0.66	3.140/91	-0.72/177	4.03/36	2.890/05	5.083/57	3.641/44	3.14/-0.57	0.37/-0.01	1.494/02	-0.404/22	-2.93/-5.62	-
Θ(90°)	-6.13/-18.55	-7.42/-6.72	-18.84/-7.4	-4.41/-1.58	-0.73/-3.48	-0.73/-5.27	-2.82/2.44	1.89/-6.11	-2.1/-4.54	-18.57/-6.21	-2.67/-6.75	-7.850/0.6	-1.08/1	-2.270/98	1.790/64	-0.360/19	3.63/3.77	2.440/07	2.16/-1.32	-0.06/-3.16	-4.85/-3.23	1.022/06	-4.33/1.07	-5.15/-4.74
Θ(97.5°)	-7.82/-18.99	-7.71/-7.89	-18.46/-8.99	-5.39/-4.33	-2.18/-4.1	-2.53/-6.81	-4.750/-29	-0.22/-6.77	-4.72/-8.11	-19.43/-10.63	-5.76/-10.21	-8.02/-11.48	-3.35/-1.93	-1.31/-0.14	-1.02/-2.65	-2.41/-4.54	1.60/41	-1.94/-3.66	-1.61/-4.69	-3.22/-9.17	-7.193/-9.1	-0.32/-0.65	-4.58/-2.64	-8.23/-6.64
Θ(105°)	-13.28/-15.68	-6.3/-0.08	-13.73/-6.94	-5.4/-5.29	-7.06/-3.8	-3.44/-6.26	-5.86/-0.8	-1.18/-10.54	-7.53/-13.21	-17.02/-10.03	-8.59/-10.96	-17.26/-7.67	-5.33/-0.9	-2.1/-9	-3.59/-4.31	-6.26/-18.51	-2.02/-4.47	-9.94/-7.01	-8.66/-13.24	-9.94/-7.01	-1.37/-3.15	-5.58/-2.74	-9.93/-7.98	-
Θ(112.5°)	-15.37/-12.75	-8.91/-15.52	-11.79/-7.79	-9.12/-8.98	-10.04/-5.51	-5.72/-7.43	-7.62/-1.55	-2.01/-11.8	-8.98/-13.47	-19.11/-17.84	-16.16/-15.99	-10.44/-15.12	-4.97/-4.95	-7.76/-6.37	-6.84/-1.92	-13.6/-8.01	-0.1/-11.48	-12.09/-7.08	-5.81/-6.21	-11.25/-12.99	-6.22/-6.79	-2.94/-4.82	-8.7/-6.02	-12.55/-9.19
Θ(120°)	-15.38/-14.29	-12.73/-18.75	-11.42/-7.72	-10.65/-13.58	-9.75/-8.48	-6.25/-12.94	-9.52/-3.39	-3.76/-8.86	-6.92/-10.22	-18.6/-14.82	-15.63/-11.65	-11.52/-9.66	-11.89/-9.71	-14.87/-8.08	-9.4/-5.1	-6.09/-6.58	-6.68/-3.97	-15.67/-2.6	-2.35/-7.46	-14.58/-17.99	-5.37/-6.94	-6.6/-5.79	-12.45/-7.42	-16.94/-10.12
Θ(127.5°)	-15.11/-17.25	-17.63/-18.68	-12.65/-11.32	-12.94/-11.39	-5.38/-4.86	-7.73/-8.46	-6.03/-4.22	-3.81/-7.44	-6.77/-11.97	-13.56/-17.85	-12.56/-10.42	-10.36/-10.21	-9.08/-9.57	-11.64/-6.81	-13.26/-8.07	-11.63/-13.02	-9.62/-8.82	-17.51/-6.7	-7.62/-14.4	-19.22/-15.85	-5.23/-11.03	-13.18/-5.62	-13.1/-11.4	-18.26/-13.83
Θ(135°)	-12.06/-15.07	-12.79/-18.01	-12.14/-10.59	-10.44/-5.83	-4.93/-5.24	-6.58/-9.27	-11.78/-8.08	-6.9/-8.06	-10.87/-9.36	-10.08/-18.98	-14.59/-8.99	-5.67/-6.33	-10.54/-8.37	-14.02/-9.9	-10.68/-6.67	-13.94/-5.17	-6.67/-12.82	-8.39/-6.68	-17.58/-18.99	-12.56/-13.03	-9.03/-17.92	-9.36/-1.75	-14.33/-12.37	-16.1/-13.54
Θ(142.5°)	-18.53/-18.84	-17.02/-12.37	-9.33/-11.5	-10/-5.23	-3.73/-4.71	-7.27/-8.02	-7/-6.8	-8.21/-8.79	-12.09/-11.3	-11.03/-9.63	-11.8/-18.6	-19.08/-18.53	-19.15/-16.71	-19.25/-16.16	-17.84/-11.18	-12.25/-18.63	-9.66/-13.11	-11.97/-10.19	-11.17/-11.44	-19.03/-15.71	-16.8/-17.22	-18.07/-17.58	-17.37/-18.52	-18.06/-16.86
Θ(150°)	-14.84/-17.09	-16.07/-12.59	-15.55/-13.96	-9.42/-7.22	-6.5/-7.89	-10/-8.56	-6.86/-6.36	-6.2/-8.1	-15.1/-14.8	-12.84/-14.09	-18.25/-19.17	-18.61/-14.83	-13.98/-15.02	-16.32/-12.047	-9.56/-15.97	-18.86/-14.25	-12.03/-14.47	-18.01/-13.5	-9.92/-10.89	-10.51/-14.61	-18.73/-18.41	-18.98/-17.58	-18.01/-18.77	-17.54/-18.24
Θ(157.5°)	-13.19/-11.6	-10.21/-10.38	-12.54/-12.27	-9.06/-7.79	-8.76/-10.49	-10.77/-10.01	-9.78/-10.37	-8.44/-6.64	-5.83/-7.95	-10.47/-10.82	-13.43/-16.97	-19.21/-19.31	-15.59/-17.91	-14.16/-10.98	-11.18/-13.94	-19.01/-18.99	-19.19/-18.39	-15.85/-15.72	-19.47/-17.37	-16.55/-16.88				



Radiated Composite Gain Data Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(165°)	-17.48/-14.36	-14.13/-13.28	-11.48/-10.73	-11.66/-11.9	-13.67/-16.7	-17.81/-19.18	-19.22/-18.07	-17.52/-17.58	-14.36/-11.65	-10.31/-10.46	-10.91/-10.46	-11.07/-10.15	-16.26/-16.25	-11.23/-12.88	-18.72/-17.62	-14.88/-14.67	-18.92/-16.5	-12.44/-13.53	-15.6/-15.16	-16.9/-19.15	-17.07/-18.66	-18.2/-18.28	-18.55/-14.01	-14.17/-13.69
Θ(172.5°)	-16.39/-15.81	-15.41/-15.48	-15.28/-16.08	-15.32/-16.27	-16.85/-14.83	-14.96/-13.46	-15.08/-15.92	-18.53/-17.98	-17.94/-18.44	-18.38/-17.86	-18.83/-19.21	-18.81/-14.49	-14.87/-18.97	-19.09/-18.2	-18.98/-18.97	-14.84/-13.33	-14.43/-17.4	-18.85/-18.44	-18.23/-17.4	-18.52/-17.2	-17.91/-17.96	-18.44/-18.28	-18.26/-14.14	-15.51/-18.34
Θ(180°)	-19.04/-18.97	-18.48/-19.26	-18.86/-18.28	-19.34/-17.85	-16.77/-18.92	-19.13/-16.01	-17.32/-18.29	-15.96/-16.04	-16.22/-18.84	-18.57/-18.82	-18.26/-18.22	-18.03/-18.95	-18.07/-17.71	-18.72/-17.91	-18.63/-18.68	-18.36/-18.48	-18.61/-17.65	-18.38/-18.6	-18.03/-18.72	-19.27/-18.95	-17.47/-18.46	-18.21/-19.32	-18.88/-18.49	
Freq(Hz)	6.475GPol.	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°)	-0.75/-1.32	-1.42/-2.3	-3.8/-3.96	-5.4/-6.76	-6.57/-6.43	-6.31/-6.68	-5.7/-5.4	-5.34/-5.14	-4.79/-3.2	-2.95/-2.28	-1.27/-0.59	-0.42/-0.5	-0.28/-0.69	-1.39/-2.6	-0.71/-1.3	2.42/-2.76	2.62/-18	1.22/0.83	-0.17/-1.3	-1.68/-1.32	-0.71/-0.82	-1.26/-0.2	0.04/-1.94	-4.68/-6
Θ(7.5°)	-3.36/-2.29	-1.34/-0.99	-1.29/-0.7	-0.2/-1.1	-1.76/-2.45	-4.22/-5.34	-6.28/-6.14	-4.5/-3.48	-2.62/-1.17	-0.15/-0.27	0.22/-0.02	-0.27/-0.63	-0.84/-0.63	-0.31/-0.5	-0.69/-0.66	-0.6/-0.83	-1.36/-1.32	-1.23/-1.35	-2.17/-3.99	-4.78/-6.75	-10.09/-11.84	-9.38/-6.14	-4.1/-2.56	-1.58/-1.09
Θ(15°)	-5.97/-7.53	-9.71/-11.24	-14.08/-10.6	-7.2/-5.27	-4.62/-4.89	-6.88/-11.85	-18.6/-17.5	-13.32/-12.69	-12.65/-12.89	-9.4/-8.4	-2.04/-0.42	0.29/0.57	0.53/0.59	1.01/-1.24	1.28/-1.27	0.91/0.32	-0.78/-3.31	-5.8/-7.49	-12.03/-14.27	-17.74/-19.25	-18.83/-18.74	-17.5/-12.23	-8.65/-7.67	-7.57/-8.24
Θ(22.5°)	-7.64/-7.1	-6.77/-8.7	-9.01/-7.94	-10.52/-9.79	-10.59/-13.9	-11.44/-11.46	-9.72/-6.66	-6.71/-6.47	-7.69/-12.86	-15.8/-14.75	-13.28/-11.71	-9.86/-8.43	-4.07/-1.31	-0.78/-1.04	0.071/47	2.42/-2.76	2.62/-18	1.22/0.83	-0.17/-1.3	-1.68/-1.32	-0.71/-0.82	-1.26/-0.2	0.04/-1.94	-4.68/-6
Θ(30°)	-6.23/-6.2	-4.31/-3.33	-7.34/-12.13	-5.21/-1.32	-0.82/-2.22	-2.87/-5.13	-6.86/-7.5	-9.9/-12.58	-18.74/-15.48	-18.79/-19.04	-12.32/-10.23	-16.34/-19.74	-6.46/-1.09	0.15/0.71	2.28/0.83	2.83/-1.42	-10.31/-17.11	-19.2/-13.42	-9.93/-9.46	-10.98/-6.95	-1.25/-2.06	2.45/-1.54	-0.24/-5.6	-7.45/-5.17
Θ(37.5°)	-12.47/-5.83	-3.72/-5.18	-9.99/-6.41	-2.03/-1.08	-1.55/-3.24	-3.17/-5.46	-7.15/-12.95	-17.68/-12.52	-8.68/-7.69	-9.86/-5.44	-3.09/-2.77	-8.17/-9.71	-13.58/-4.12	-1.92/-3.55	-0.91/-0.01	-2.81/-1.89	0.99/-1.34	-5.75/-4.25	-3.6/-3.32	-4.43/-4.62	-0.61/-0.22	-1.67/-2.78	-0.371/0.7	-0.56/-7.63
Θ(45°)	-4.94/-2.59	-1.74/-3.26	-4.81/-5.45	-2.86/-1.18	1.84/-0.73	-3.54/-3.43	-2.57/-2.22	-5.68/-8.87	-16.22/-17.67	-6.31/-2.34	-3.05/-0.89	-2.78/-3.16	-6.28/-7.49	-1.86/-7.7	-0.39/-1.21	-3.14/-0.7	1.07/-3.55	-18.08/-10.01	-5.47/-4.17	-3.37/-6.25	2.38/-1.71	0.26/-0.3	-0.86/-0.4	-2.13/-18.55
Θ(52.5°)	-2.93/-0.73	1.78/-1.97	-0.96/-2.91	-0.83/-38	3.41/-0.07	-1.9/-0.46	-0.51/-0.8	-0.02/-1.54	-0.1/-5.72	-11.3/-5.34	-2.24/-2.42	0.8/-1.03	-5.93/-2.49	-3.12/-11.18	-1/-2.64	-0.44/-1.56	0.94/-1.48	-3.5/-5.65	0.21/-3.4	-0.44/-4.17	2.25/0.74	2.44/3.57	0.45/-4.63	-6.39/-6.89
Θ(60°)	-2.06/-2.65	0.87/-2.95	2.33/-1.3	0.54/0.81	0.54/-3.92	-1.54/-1.88	-4.44/-4.46	-2.57/-0.79	-1.57/-4.78	-6.17/-7.67	-2.77/-2.53	3.08/-4.34	-1.18/-17.15	0.3/-11.41	-1.66/-12.29	0.594/0.1	1.32/-0.25	-2.97/-8.3	-1.05/-1.57	0.11/-2.44	2.48/0.58	2.16/-3.2	1.26/-3.44	-2.12/-3.98
Θ(67.5°)	-1.76/-6.92	-1.41/-1.95	2.65/-1.76	-0.69/-2.34	-2.85/-5.34	-9.56/-4.37	-8.81/-15.64	-6.54/-1.75	-5.59/-6.6	-4.41/-7.58	-3.08/0.26	-5.41/-2.05	-2.72/-5.1	-0.1/-0.02	-1.46/-5.03	2.63/-46	0.83/0.48	-3.33/-10.62	-9.63/-16.98	-2.32/-3.65	2.31/-1.49	2.61/0.69	1.09/-0.53	-1.96/-2.6
Θ(75°)	-1.07/-9	-2.97/-0.61	1.08/-0.4	-0.17/-2.85	-4.8/-6.11	-9.25/-6.11	-7.29/-12.14	-4.14/-0.04	-0.26/-10.81	-2.99/-10.8	-4.81/-4.67	-4.66/-0.6	1.94/0.2	3.89/-2.5	1.09/-3.53	1.72/3.02	2.22/2.95	-0.64/-2.42	-7.64/-8.95	-8.53/-6.07	1.57/-3.71	2.85/-2.44	0.84/-0.03	-2.66/-1.99
Θ(82.5°)	-1.46/-11.23	-4.3/-1.56	-0.81/-1.54	-0.88/-3.36	-6.56/-7.91	-9.5/-9.79	-10.7/-11.91	-0.89/-1.1	1.16/-10.3	-5.62/-9.8	-5.17/-1.99	0.79/-1.78	0.59/-1.1	-0.86/-2.95	1.52/3.2	2.99/3.67	-0.91/-0.01	-1.53/-3.55	-9.26/-7.4	0.34/-6.56	2.88/-0.52	-1.11/-1.48	-3.81/-1.62	
Θ(90°)	-3.11/-12.36	-6.24/-2.4	-2.37/-3.06	-2.58/-3.02	-7.55/-10.52	-16.13/-16.37	-7.10/-10.9	-2.17/-1.73	-0.62/-15.06	-7.13/-9.85	-6.18/-12.48	-9/-1.81	-0.06/-0.78	0.77/-3.84	-3.24/-1.18	2.45/2.7	-0.18/-1.02	-0.27/-3.92	-9.39/-5.03	-4.22/-6.98	1.64/-7.1	-4.64/-3.21	-5.18/-2.9	
Θ(97.5°)	-4.93/-11.11	-8.81/-3.12	-2.41/-4.22	-5.96/-6.94	-9.94/-14.05	-18.88/-18.42	-6.36/-16.35	-2.98/0.59	-1.31/-16.86	-7.17/-9.49	-9.38/-9.75	-7.62/-2.42	-2.91/-3.86	-4.83/-0.76	-5.39/-7.13	-7.54/-3.8	-0.56/-1.16	-4.53/-4.24	-4.71/-5.62	-9.8/-9.49	-8.25/-8.37	-0.68/-8.39	-8.69/-5.54	-5.22/-5
Θ(105°)	-5.22/-14.4	-9.03/-4.56	-4.55/-6.74	-7.21/-8.83	-12.56/-13.89	-18.19/-18.92	-8.73/-15.86	-4.45/-15.3	-3.3/-14.34	-9.07/-10.51	-8.74/-12.1	-19.21/-6.18	-3.77/-3.1	-3.04/-5.82	-6.72/-8.14	-9.38/-10.06	-3.48/-7.33	-8.59/-8.35	-6.5/-12.32	-17.73/-14.15	-9.34/-10.34	-2.75/-10.5	-13.55/-6.99	-6.89/-6.78
Θ(112.5°)	-7.04/-19.4	-8.86/-6.32	-5.85/-8.63	-11.18/-12.28	-10.05/-15.82	-13.66/-19.08	-12.73/-16.69	-7.13/-3.79	-5.3/-13.04	-11.72/-14.69	-12.23/-17.47	-13.68/-10.45	-7.44/-8.99	-9.17/-13.04	-7.87/-10.25	-13.34/-6.05	-2.54/-17.79	-18.93/-11.72	-6.17/-8.91	-15.39/-17.09	-1.74/-18.13	-4.41/-12.43	-12.65/-9.89	-8.81/-7.05
Θ(120°)	-10.03/-14.1	-7.59/-6.01	-9.96/-12.04	-14.73/-11.11	-10.29/-14.45	-18.87/-19.07	-13.39/-14.43	-11.51/-4.89	-7.13/-10.47	-18.58/-18.34	-18.42/-18.15	-16.77/-14.54	-9.14/-8.03	-6.55/-18.4	-4.54/-11.53	-12.28/-11.06	-6.87/-5.4	-11.39/-9.75	-6.1/-13.24	-18.36/-19.19	-6.89/-11.44	-5.79/-16.03	-10.26/-13.4	-10.5/-10.48
Θ(127.5°)	-10.4/-13.1	-7.9/-7.67	-10.54/-13.29	-18.49/-18.32	-10.82/-18.67	-12.12/-14.55	-16.57/-13.61	-18/-6.77	-3.38/-1.12	-17.44/-14.59	-19.8/-14.98	-12.38/-13.66	-15.36/-14.84	-9.71/-19.49	-12.71/-12.78	-14.74/-10.17	-9.99/-12.14	-12.12/-9.61	-14.01/-13.01	-18.32/-14.71	-18.49/-9.1	-8.66/-15.65	-11.01/-13.8	-17.02/-14.89
Θ(135°)	-10.97/-14.21	-12.29/-11.57	-14.74/-18.39	-14.17/-17.29	-17.05/-13.86	-12.08/-15.33	-17.26/-19.11	-19.25/-7.37	-5.27/-7.76	-10.29/-13.62	-15.87/-11.54	-11.33/-18.24	-11.45/-10.34	-8.64/-16	-10.86/-12.29	-12.81/-9.26	-10.34/-13.22	-13.01/-7.09	-15.37/-18.17	-10.4/-18.58	-15.53/-11.58	-18.96/-13.46	-17.92/-17.35	-14.93/-12.24
Θ(142.5°)	-15.04/-13.6	-12.06/-12.98	-16.11/-18.51	-17.21/-14.25	-17.5/-12.92	-16.71/-16.87	-18.58/-18.04	-10.24/-7.81	-9.16/-13.3	-18.71/-18.2	-18.73/-11.97	-14.03/-10.76	-16.43/-11.34	-8.99/-18.95	-18.15/-16.77	-18.26/-18.61	-10.41/-6.82	-17.33/-18.83	-12.26/-18.68	-14.31/-17.63	-17.98/-14.54	-17.59/-18.48	-13.53/-12.65	
Θ(150°)	-17.82/-18.76	-14.89/-13.98	-13.42/-15.68	-19.51/-18.79	-18.01/-14.91	-13.89/-13.62	-16.79/-15.19	-11.1/-9.27	-10.64/-13.81	-17.91/-19.3	-16.3/-18.56	-18.55/-16.75	-19.09/-18.31	-13.25/-17.33	-10.8/-9.64	-18.64/-16.83	-14.13/-17.27	-15.24/-16.17	-14.93/-18.01	-14.07/-14.31	-11.78/-12.43	-17.22/-18.81	-18.52/-17.99	-15.32/-17.63
Θ(157.5°)	-15.16/-33	-13.69/-18.48	-18.04/-16.81	-17.71/-18.7	-18.04/-18.23	-14.61/-12.33	-12.01/-12.22	-11.73/-11.36	-12.07/-14.8	-8.27/-10.25	-11.38/-13.9	-14.11/-14.21	-10.46/-10.78	-13.31/-11.91	-12.57/-18.02	-16.66/-13.84	-17.03/-14.6	-14/-13.42	-14.12/-18.61	-15.71/-16.1	-18.81/-17.4	-18.23/-19.6	-17.69/-18.23	-18.72/-17.13
Θ(165°)	-18.18/-198	-17.65/-18.88	-18.06/-18.67	-17.86/-18.32	-18.19/-18.32	-16.56/-16.09	-15.38/-14.62	-13.53/-12.31	-14.77/-15.64	-11.79/-12.82	-14.34/-15.64	-14.21/-11.37	-11.59/-17.72	-18.49/-18.21	-18.48/-13.81	-17.34/-18.7	-16.72/-18.42	-18.55/-18.08	-18.11/-18.71	-19.24/-17.96	-18.04/-19.05	-18.86/-18.59	-19.1/-18.07	
Θ(172.5°)	-17.51/-18.45	-18.51/-18.18	-17.17/-17.45	-18.55/-15.89	-17.64/-18	-17.77/-18.95	-19.47/-19.34	-18.42/-17.3	-18.86/-18.74	-17.99/-18.76	-19.14/-18.23	-17.07/-19.21	-17.65/-17.62	-18.39/-18.01	-18.84/-18.39	-18.51/-18.4	-17.54/-16.75	-14.28/-13.92	-12.41/-14.06	-16.37/-17.26	-18.45/-18.75	-15.6/-13.91	-17.35/-18.02	-18.11/-18.57
Θ(180°)	-18.86/-18.36	-18.3/-18.45	-15.52/-17.31	-17.88/-17	-18.64/-17.91	-18.25/-19.26	-18.63/-18.34	-18.44/-18.41	-18.35/-18.29	-17.87/-18.97	-18.91/-18.78	-18.96/-18.34	-18.61/-19.18	-18.85/-18.66	-18.37/-17.27	-17.68/-18.92	-18.17/-18.5	-18.94/-18.78	-18.49/-17.99	-19.88/-18.18	-18.58/-17.68	-18.07/-18.85	-19.11/-19.07	-17.55/-18.86
Freq(Hz)	6.695GPol.	Phi/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°)	-9.67/-8.94	-7.57/-6.56	-6.19/-5.22	-3.97/-4.36	-2.86/-2.41	-3.1/-1.5	-2.17/-2.77	-2.54/-2.3	-2.98/-3.73	-4.97/-6.51	-6.23/-5.33	-3.17/-5.27	-1.11/-8.81	-6.23/-5.33	-2.4/-2.17	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23	-2.14/-2.23
Θ(7.5°)	-5.72/-3.71	-2.21/-0.93	-0.19/-0.13	0.83/0.91	0.30/36	-0.87/-0.93	-1.81/-4.39	-5.52/-6.65	-9.13/-11.27	-13.73/-14.95	-15.12/-16.07	-16.62/-17.76	-14.95/-12.44	-11.68/-10.89	-10.32/-10.02	-9.73/-8.55	-7.47/-6.02	-5.14/-3.74	-2.77/-2.71	-2.24/-2.13	-2.59/-3.27	-4.18/-6.33	-9.92/-12.06	-11.28/-8.48
Θ(15°)	-																							



Radiated Composite Gain Data_ Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix C

Θ(15°)	-3.89/-1.34	-0.27/-0.44	-1.9/-3.75	-5.59/-6.97	-5.51/-4.64	-3.21/-2.12	-2.26/-1.42	-1.91/-2.76	-4.06/-6.3	-9.79/-11.87	-9.92/-9.2	-10.23/-10.86	-7.91/-5.74	-4.18/-2.17	-0.94/0.26	1.33/1.88	1.89/1.54	0.7/-0.58	-1.55/-3.63	-5.09/-6.79	-9.72/-13.27	-19.19/-18	-14.89/-11.56	-7.06/-3.97
Θ(22.5°)	-16.24/-15.84	-8.29/-5.27	-5.22/-6.95	-8.89/-12.44	-11.98/-8.87	-6.39/-6.5	-7.79/-8.43	-9.06/-9.09	-10.22/-16.82	-18.26/-13.56	-8.31/-4.82	-3.6/-3.88	-6.36/-7.51	-3.78/-0.18	0.33/-0.34	-1.18/-1.17	-0.56/0.01	0.06/-1.37	-4.89/-12	-10.98/-7.84	-5.5/-4.01	-4.2/-7.45	-13.72/-13.18	-13.07/-18.86
Θ(30°)	-3.22/-8.63	-17.23/-10.52	-10.35/-11.03	-9.35/-10.7	-18.43/-17.44	-8.78/-4	-3.5/-5.95	-6.36/-4.79	-5.38/-10.69	-13.12/-12.16	-13.87/-6.65	-4.34/-3.01	-2.09/-4.46	-3.56/-0.81	-0.11/-0.52	-0.23/-0.42	-1.4/-1.29	0.53/-0.17	-4.61/-10.9	-4.76/-2.55	-4.9/-11.22	-10.77/-11.44	-8.68/-4.24	-1.23/-2.12
Θ(37.5°)	0.87/0.12	-3.18/-12.88	-5.39/-3.94	-6.39/-10.07	-13.8/-17.27	-8.37/-4.67	-6.41/-10.38	-6.66/-4.03	-5.42/-11.63	-18.84/-17.14	-3.68/-2.77	-4.38/-0.7	-3.91/-6.32	-1.46/-1.32	-2.85/-2	-1.02/-1.56	-4.34/-8.53	-4.43/-3.18	-4.46/-7.47	-3.5/-2.17	-4.41/-8.43	-7.44/-3.82	-3.74/-6.22	-2.27/-0.84
Θ(45°)	2.33/3.72	-0.04/-8.1	-0.99/0.37	-0.85/-3.13	-5.97/-8.33	-8.61/-5.53	-7.06/-10.41	-4.88/-2.76	-12.42/-5.84	-4.83/-10.97	-7.76/-3.37	-6.01/-4.4	-2.65/-2.82	-0.7/0.31	0.63/-0.68	-8.42/-7.33	-4.4/-10.81	-12.52/-10.38	-14.15/-4.49	0.55/0.69	-4.06/-1.77	-2.62/1	1.92/-1.62	-1.34/0.59
Θ(52.5°)	0.69/2.6	-3.08/-6.03	-4.06/-1.39	-0.33/-1.14	-2.72/-3.82	-5.75/-1	-5.92/-5.89	-0.65/-2.61	-5.33/0.04	-3.63/-3.53	-6.88/-4.83	-4.73/-3.21	-0.42/-2.95	-1.9/-2.17	-0.37/-3.91	-1.84/-2.74	-5.77/-6.26	-14.66/-3.44	-9.67/-5.09	-2.03/-2.49	-3.65/1.56	1.43/1.64	2.57/1.78	2/-0.83
Θ(60°)	-0.67/1.36	-0.96/-3.73	-2.24/-0.82	-0.92/-2.95	-2.07/0.51	-6.07/-3.33	-5.43/-9.52	-2.57/-7.82	1.84/2.27	-5.22/-2.2	-3.47/-3.16	-2.45/-6.47	-5.64/-1.64	-1.67/-0.87	-3.94/-12.68	-2.56/-1.02	-3.82/-3.81	-7.54/-4.23	-5.97/-3.94	-0.65/-2.85	-1.29/2.8	2.57/1.59	1.6/3.41	2.66/-1.25
Θ(67.5°)	-2.69/1.17	0.78/-2.5	1.21/0.85	-2.53/-8.09	-4.83/0.75	-2.55/-5.4	-3.79/-8.25	-3.58/-8.2	3.05/1.38	-4.41/-3.62	-2.9/-0.2	-6.18/-12.29	1.19/0.3	1.22/0.63	-4.15/-7.63	-4.91/-3.01	-6.41/-3.34	-2.68/-4.28	-9.77/-3.11	-0.49/-0.97	-0.06/4.55	2.14/1.22	0.22/2.88	1.84/-0.74
Θ(75°)	-4.65/-0.52	-0.93/-2.6	0.93/0.82	-4.94/-11.71	-8.82/-2.26	-2.13/-3.22	-3.6/-3.82	-1/-11.81	0.71/-0.48	-2.83/-7.86	-0.49/-1.3	-5.38/-8.15	-2.79/1.37	-0.41/-0.1	-1.29/-1.95	-1.65/-2.19	-4.39/1.06	0.94/0.07	-18.84/-8.03	-2.81/-0.94	-1.09/4.98	0.7/1.2	-1.62/1.36	0.53/-0.7
Θ(82.5°)	-5.71/-3.52	-4.12/-4.07	-1.07/-0.8	-6.57/-9.96	-12.94/-4.78	-1.67/-3.68	-4.37/-6.09	-2.41/-8.12	-0.82/-4.51	-3.56/-9.18	-1.48/-3.4	-7.41/-10.48	-1.07/-2.25	-3.35/-2.46	-0.53/-0.81	-1.5/-2.82	-1.87/2.9	0.49/0.81	-18.03/-15.93	-6.51/-1.68	-3.68/3.69	-2.02/0.39	-3.27/-1.92	-0.24/-1.93
Θ(90°)	-7.08/-5.23	-8.12/-6.82	-4.02/-1.89	-5.49/-9.29	-18.03/-7.31	-2.93/-3.03	-3.79/-6.31	-6.44/-3.38	-2.03/-8.52	-5.85/-15.06	-1.65/-4.66	-6.2/-7.26	-6.17/-2.07	-3.61/-3.86	-1.92/-1.6	-6.25/-3.87	-2.61/1.06	-1.84/0.14	-13.95/-7.91	-10.58/-5.03	-4.68/1.42	-3.41/-2.37	-4.61/-3.97	-1.24/-2.46
Θ(97.5°)	-7.28/-5.42	-9.76/-9.22	-8.08/-3.35	-4.19/-7.64	-18.94/-7.66	-4.83/-2.65	-5.6/-4.7	-10.82/-4.1	-2.84/-12.07	-7.3/-11.29	-5.38/-3.35	-6.32/-9.46	-4.44/-6.06	-6.02/-6.11	-4.26/-3.52	-10.7/-6.43	-5.84/-1.86	-6.55/-4.29	-14.09/-7.23	-16.33/-9.24	-5.21/-2.11	-4.11/-4.28	-6.43/-4.85	-2.86/-2.4
Θ(105°)	-7.4/-6.29	-9.24/-8.65	-9.44/-5.34	-6.57/-8.26	-16.1/-9.75	-6.33/-4	-5.66/-8.68	-12.14/-6.85	-4.95/-11.49	-7.2/-17.54	-5.92/-7.03	-5.97/-7.33	-8.38/-3.99	-10.85/-18.57	-10.19/-4.88	-6.58/-5.82	-11.91/-5.29	-8.15/-5.58	-16.11/-12.37	-14.17/-12.94	-7.84/-2.41	-5.87/-5.14	-10.21/-6.33	-3.52/-4.84
Θ(112.5°)	-10.93/-7.69	-10.53/-12.09	-10.82/-5.2	-6.36/-13.82	-19.18/-11.92	-6.31/-3.03	-5.37/-8.02	-17.54/-10.37	-6.23/-18.56	-8.02/-17.93	-8.85/-8.35	-14.95/-16.72	-9.49/-12.99	-9.4/-9.69	-7.35/-7.19	-5.71/-14.06	-4.93/-2.97	-5.94/-9.99	-12.69/-10.95	-13.7/-8.4	-9.08/-3.61	-6.33/-7.66	-7.96/-5.62	-6.13/-8.49
Θ(120°)	-14.36/-10.15	-11.36/-16.94	-14.15/-6.2	-8.67/-18.33	-18.34/-14.23	-7.72/-4.4	-6.4/-9.67	-10.64/-10.04	-17.93/-15	-9.74/-13.74	-14.06/-14.63	-17.74/-18.48	-13.38/-8.18	-15.01/-13.06	-17.46/-17.89	-9.86/-15.63	-7.21/-14.92	-17.15/-17.89	-14.91/-10.64	-14.66/-7.32	-6.8/-6.26	-9.19/-9.63	-8.49/-6.65	-8.24/-12.16
Θ(127.5°)	-18.31/-9.87	-13.39/-16.82	-16.05/-10.53	-10.41/-16.84	-18.29/-19.1	-8.43/-5.21	-4.89/-4.98	-15.27/-15.4	-10.68/-17.74	-14.06/-16.36	-17.89/-18.89	-19.08/-13.94	-16.94/-18.33	-17.59/-18.82	-14.78/-13.97	-9.34/-12.86	-12.57/-8.55	-11.04/-10.39	-14.75/-11.49	-11.35/-13.49	-9.95/-10.48	-12.22/-9.16	-10.42/-8.61	-10.55/-12.55
Θ(135°)	-15.31/-11.83	-17.29/-13.16	-9.11/-9.67	-8.91/-13.57	-10.87/-18.52	-14.66/-7.24	-4.68/-5.22	-12.06/-9.92	-9.86/-16.6	-17.64/-17.81	-17.91/-18.89	-15.71/-18.6	-18.15/-17.72	-11.78/-9.26	-8.28/-17.11	-11.36/-16.74	-7.14/-16.82	-17.88/-13.58	-17.4/-17.75	-15.34/-16.22	-12.3/-18.57	-11/-8.52	-12.6/-9.54	-10.53/-16.47
Θ(142.5°)	-14.55/-17.24	-19.15/-16.6	-10.38/-11.09	-12.9/-11.56	-9.47/-17.21	-18.36/-10.24	-7.44/-5.21	-8.71/-10.44	-8.8/-12.72	-12.25/-18.73	-14.27/-10.7	-10.85/-10.38	-16.42/-19.09	-19.06/-18.58	-18.24/-17.81	-10.82/-12.87	-12.49/-18.21	-18.39/-18.6	-18.86/-16.74	-12.94/-18.97	-18.93/-13.85	-15.29/-11.02	-11.59/-13.13	-15.41/-16.11
Θ(150°)	-15.54/-16.5	-15.83/-11.89	-12.14/-12.12	-13.67/-15.03	-14.06/-18.09	-18.5/-13.9	-9.77/-8.12	-10.36/-11.62	-12.05/-10.38	-9.43/-13.12	-12.22/-13	-18.59/-14.5	-16.9/-18.84	-19.07/-14.74	-13.76/-19.01	-19.07/-16.26	-12.17/-18.78	-13.75/-7.99	-13.25/-14.84	-13.34/-18.01	-17.66/-19.05	-17.66/-14.03	-13.09/-14.19	-18.79/-17.85
Θ(157.5°)	-17.26/-14.61	-16.43/-15.06	-15.92/-18.57	-13.53/-11.32	-11.31/-11.99	-11.82/-11.44	-9.69/-9.93	-12.16/-15.5	-18.44/-13.92	-16.83/-17.8	-18.83/-17.92	-18.73/-17.44	-18.05/-18.39	-18.65/-18.15	-18.62/-19.48	-18.26/-18.4	-18.63/-18.04	-18.02/-18.02	-18.79/-18.91	-15.14/-9.36	-9.86/-14.11	-18.54/-17.9	-17.66/-19.01	-17.66/-18.92
Θ(165°)	-12.08/-12.91	-12.58/-12.57	-13.51/-14.01	-14.08/-13.45	-13/-12.85	-11/-9.44	-8.11/-8.92	-11.87/-14.52	-18.38/-18.64	-17.44/-17.96	-18.17/-17.51	-18.08/-18.33	-18.49/-19.08	-17.88/-17.83	-15.35/-16.52	-18.62/-18.52	-17.59/-18.31	-17.78/-18.48	-18.27/-16.87	-17.72/-18.98	-18.1/-17.9	-19.19/-17.85	-18.6/-18	-14.72/-14.63
Θ(172.5°)	-17.51/-16.82	-16.19/-17.46	-13.65/-12.52	-12.13/-12.83	-14.88/-13.21	-13.12/-13.76	-14/-15.92	-15.11/-16.66	-15.37/-15.06	-16.88/-18.99	-18.66/-17.41	-17.76/-13.86	-12.02/-11.72	-12.21/-17.49	-18.73/-19.08	-17.63/-17.81	-14.88/-14.13	-13.55/-15.89	-17.83/-17.44	-18.36/-18.1	-18.1/-17.98	-19.15/-18.41	-19.06/-17.56	-17.93/-19.29
Θ(180°)	-19.49/-19.39	-18.78/-18.76	-17.76/-16.43	-16.59/-14.2	-13.27/-12.72	-13.56/-15.42	-13.92/-14.56	-14.97/-13.84	-15.82/-18.86	-18.37/-17.42	-18.53/-19.03	-18.16/-16.69	-18.23/-18.79	-19.22/-18.07	-15.68/-13.79	-12.86/-12.86	-13.78/-13.95	-14.69/-14.59	-18.02/-17.95	-17.32/-19.01	-17.8/-19.01	-16.75/-19.04	-15.89/-12.5	-12.95/-12.91

Total Gain Data

Gain	245GPol.	TotalAnt./	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°)	3.543.62	3.693.72	3.733.75	3.733.75	3.823.92	4.034.10	4.154.17	4.134.03	3.873.74	3.573.38	3.172.95	2.762.61	2.532.54	2.672.86	3.073.29	3.513.72	3.904.07	4.224.33	4.364.30	4.194.11	4.033.94	3.843.75	3.663.58	3.533.49	3.493.52
Θ(7.5°)	3.243.44	3.633.86	4.084.31	4.544.74	4.864.93	4.944.93	4.874.76	4.644.49	4.294.06	3.863.69	3.613.61	3.733.95	4.184.36	4.474.51	4.494.45	4.414.37	4.324.22	4.043.75	3.453.21	3.042.90	2.832.80	2.802.81	2.832.85	2.903.02	
Θ(15°)	3.403.81	4.214.61	4.993.53	5.573.73	5.595.42	5.375.20	5.204.98	4.824.67	4.494.31	4.174.04	4.034.17	4.404.74	5.105.41	5.635.74	5.384.90	4.834.57	4.724.76	4.273.63	2.882.14	1.521.09	0.921.01	1.241.60	1.932.28	2.643.03	
Θ(22.5°)	3.353.80	4.234.70	5.155.51	5.725.76	5.645.35	4.944.52	4.103.80	3.713.72	3.763.80	3.934.10	4.384.74	5.125.46	5.625.76	5.654.63	5.545.57	5.164.63	3.973.14	2.080.88	-0.391.44	-1.911.67	-0.941.04	0.851.61	1.292.84		
Θ(30°)	2.532.92	3.333.82	4.334.76	5.015.07	4.894.43	3.743.82	1.991.34	1.231.55	2.082.61	3.033.30	3.503.66	3.743.93	4.144.37	4.624.90	5.125.21	5.104.79	4.303.66	2.922.09	1.055.14	-1.522.92	-3.887.39	-2.821.47	-0.200.80	1.612.22	
Θ(37.5°)	1.391.71	2.042.46	2.933.37	3.693.87	3.803.40	2.631.42	-0.131.171	-2.281.45	-0.031.22	2.092.71	2.993.09	3.083.01	2.902.81	2.782.84	2.983.06	3.012.79	2.341.71	1.010.31	-0.421.22	-2.051.278	-3.141.288	-2.461.172	-0.871.012	0.541.04	
Θ(45°)	0.470.83	0.951.03	1.121.34	1.662.08	2.372.32	1.820.71	-1.171.399	-6.481.552	-2.621.028	1.252.16	2.592.79	2.802.61	3.231.98	1.261.31	0.530.20	-0.211.060	-0.821.096	-1.111.141	-1.751.195	-1.861.150	-1.331.126	-1.211.102	-0.621.002		
Θ(52.5°)	0.140.56	0.480.05	-0.581.100	-0.871.020	0.490.89	0.930.46	-0.853.039	-6.741.874	-4.881.499	0.521.55	2.092.28	2.282.12	1.841.51	1.200.92	0.480.032	-1.441.243	-3.121.313	-2.581.193	-1.511.142	-1.521.158	-1.331.088	-0.631.078	-1.191.155	-1.371.063	
Θ(60°)	0.100.55	0.301.049	-1.751.297	-3.181.232	-1.341.047	0.260.69	0.431.071	-3.191.664	-6.531.267	-0.480.73	1.281.49	1.501.37	1.171.01	1.021.05	0.721.037	-2.021.357	-4.331.398	-3.151.267	-2.531.252	-2.451.321	-2.051.151	-1.151.117	-1.501.192	-1.691.709	
Θ(67.5°)	-0.200.37	0.171.075	-2.351.399	-4.451.354	-2.401.120	0.030.94	1.050.31	-1.591.464	-6.261.368	-1.451.043	0.070.20	1.011.09	-0.160.002	0.400.507	0.121.122	-2.491.415	-4.011.303	-2.191.225	-3.081.416	-4.421.387	-3.101.240	-2.131.235	-2.961.343	-2.791.135	
Θ(75°)	-1.581.086	-0.901.178	-3.421.524	-5.841.500	-3.771.262	-0.750.38	0.770.26	-1.231.378	-6.521.537	-3.151.192	-1.211.075	-0.741.071	-1.281.113	-0.681.042	-0.911.260	-4.981.624	-5.651.420	-2.911.263	-3.381.514	-6.931.677	-5.151.353	-2.801.282	-3.551.454	-4.311.287	
Θ(82.5°)	-2.521.203	-2.351.339	-5.251.724	-7.831.688	-5.351.347	-1.621.300	0.091.041	-2.011.462	-7.361.623	-3.961.273	-1.781.134	-1.681.245	-2.931.287	-2.401.219	-2.981.514	-7.681.818	-4.181.397	-4.811.645	-8.231.876	-7.281.552	-4.671.460	-4.901.511	-4.651.346		
Θ(90°)	-3.271.313	-3.281.424	-5.831.712	-8.571.776	-6.001.381	-1.841.056	-0.241.094	-2.591.506	-7.511.694	-5.061.394	-3.041.260	-3.411.99	-6.031.602	-5.281.490	-5.711.07	-10.041.987	-7.991.649	-5.831.601	-6.931.854	-10.181.057	-8.811.644	-5.351.667	-6.751.32	-6.451.481	
Θ(97.5°)	-5.801.536	-5.581.655	-7.971.941	-9.641.826	-6.371.211	-2.451.151	-1.481.232	-3.991.04	-7.771.479	-6.421.579	-4.901.941	-6.491.90	-7.781.724	-5.721.683	-8.391.014	-10.521.959	-8.891.055	-7.631.796	-8.441.907	-10.281.1159	-10.441.775	-6.311.620	-7.341.584	-7.941.654	
Θ(105°)	-7.621.764	-7.841.831	-8.971.946	-9.911.982	-6.231.455	-3.101.221	-2.121.284	-4.261.625	-8.411.949	-9.251.862	-6.991.620	-7.971.930	-9.311.896	-8.741.947	-11.861.1435	-12.651.1103	-11.471.1261	-13.071.1240	-9.841.1059	-10.431.878	-8.801.815	-9.311.1043	-9.771.811		
Θ(112.5°)	-9.971.1025	-10.481.087	-11.411.1130	-10.181.884	-7.311.548	-3.931.320	-3.371.433	-5.941.795	-9.971.060	-10.331.944	-7.821.819	-11.291.1202	-10.511.969	-9.991.1182	-14.611.1379	-14.311.903	-10.021.1245	-10.421.1252	-11.961.1056	-10.721.1183	-11.671.923	-8.501.495	-11.481.1456	-13.391.1089	
Θ(120°)	-15.331.376	-12.701.1212	-11.361.964	-8.411.769	-6.901.850	-4.831.444	-4.511.96	-5.921.751	-9.361.1117	-12.071.1320	-10.061.1302	-13.441.1262	-10.881.1499	-11.881.1505	-15.591.1476	-12.361.1043	-11.121.1378	-12.261.1091	-10.881.1043	-10.611.1236	-14.061.1163	-9.531.944	-11.631.1437	-15.361.1543	
Θ(127.5°)	-13.981.1304	-11.781.1311	-11.181.1054	-9.661.919	-8.961.842	-7.481.616	-6.051.165	-7.251.902	-11.091.1331	-14.241.1284	-12.231.1376	-16.081.1413	-12.491.1279	-14.651.1579	-15.381.1479	-14.841.1330	-13.691.1471	-12.061.1403	-10.771.1116	-11.521.1329	-15.331.1548	-12.771.1213	-13.051.1422	-15.301.1525	
Θ(135°)	-16.041.1347	-11.931.1098	-10.571.1027	-9.941.968	-9.921.1023	-9.731.881	-8.291.827	-9.051.1009	-11.641.1366	-14.351.1243	-12.191.1445	-15.451.1325	-12.311.1280	-13.131.1399	-15.251.1559	-14.501.1514	-15.071.1502	-14.651.1262	-12.561.1349	-14.211.1539	-15.641.1457	-14.621.1350	-14.701.1550	-15.401.1521	
Θ(142.5°)	-15.841.1546	-13.931.1306	-12.971.1262	-11.891.1078	-10.201.978	-9.651.967	-9.451.940	-9.341.1008	-12.311.1177	-11.271.1070	-12.021.1492	-15.951.1551	-15.031.1378	-13.471.1395	-13.311.1299	-13.781.1551	-16.371.1547	-14.841.1453	-14.571.1434	-15.261.1525	-16.301.1559	-15.431.1575	-15.261.1554	-16.261.1536	
Θ(150°)	-15.591.1512	-13.651.1306	-13.171.1359	-14.141.1342	-12.721.1129	-10.111.905	-8.301.809	-9.791.1138	-10.501.1138	-13.541.1493	-15.531.1554	-15.151.1423	-13.741.1438	-13.451.1371	-14.421.1518	-14.771.1505	-15.521.1522	-15.491.1531	-15.331.1522	-15.191.1592	-15.761.1550	-15.171.1559	-15.971.1610		
Θ(157.5°)	-15.451.1519	-15.611.1521	-14.861.1485	-14.231.1372	-13.201.1229	-11.291.1062	-10.221.1015	-10.341.1057	-10.761.1097	-11.581.1291	-13.491.1381	-13.831.1456	-15.141.1580	-16.051.1505	-15.271.1606	-16.131.1530	-14.241.1395	-13.331.1327	-13.231.1357	-14.071.1457	-15.211.1541	-15.401.1547	-14.911.1590	-16.081.1586	
Θ(165°)	-16.041.1532	-15.621.1505	-15.651.1588	-15.081.1442	-14.071.1358	-13.021.1244	-11.941.1172	-11.681.1175	-11.891.1222	-12.801.1370	-13.731.1391	-14.551.1505	-14.961.1525	-16.191.1579	-14.601.1530	-14.621.1366	-12.751.1320	-12.231.1429	-12.651.1304	-13.521.1358	-14.041.1432	-14.161.1515	-16.401.1603	-15.311.1578	
Θ(172.5°)	-15.101.1559	-14.791.1514	-16.001.1573	-15.371.1446	-14.101.1305	-12.871.1247	-12.311.1262	-12.531.1267	-13.801.1433	-14.271.1502	-15.821.1519	-15.011.1529	-14.571.1516	-14.541.1505	-15.571.1516	-14.351.1505	-14.331.1424	-14.441.1505	-15.631.1490	-15.031.1558	-15.101.1562	-15.311.1567	-15.101.1573	-15.861.1499	
Θ(180°)	-15.451.1542	-15.261.1534	-15.051.1614	-15.251.1527	-15.221.1491	-16.171.1574	-15.401.1512	-14.831.1500	-14.771.1492	-15.161.1545	-16.321.1516	-15.561.1565	-15.201.1535	-15.191.1505	-15.271.1522	-14.851.1506	-15.051.1592	-15.781.1564	-15.491.1610	-15.341.1614	-15.931.1502	-15.421.1480	-15.261.1517	-14.971.1588	
Freq(Hz)	2.45GPol.	TotalAnt./	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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°)	3.433.61	3.803.97	4.114.19	4.234.21	4.184.15	4.104.00	3.853.66	3.403.11	2.822.58	2.382.26	2.162.14	2.162.25	2.392.56	2.803.07	3.363.61	3.813.92	3.973.95	3.833.73	3.613.54	3.483.40	3.353.31	3.273.23	3.293.23	3.303.41	
Θ(7.5°)	2.132.26	2.432.63	2.792.92	3.013.05	3.083.31	3.123.05	2.932.82	2.702.62	2.612.67	2.402.54	2.298.17	3.393.63	4.474.48	4.364.58	4.774.95	5.095.14	5.049.02	4.624.29	3.983.72	3.493.28	3.092.91	2.742.59	2.412.27	2.152.11	
Θ(15°)	1.121.13	1.181.23	1.231.19	1.121.07	1.031.06	1.010.89	0.770.74	0.841.06	1.451.85	2.202.52	2.823.18	3.594.04	4.474.88	5.255.55	5.745.88	5.475.45	5.345.07	5.111.454	3.953.39	2.892.48	2.171.92	1.751.67	1.571.46	1.331.23	
Θ(22.5°)	1.541.38	1.080.72	0.271.024	-0.731.118	-1.501.173	-2.101.249	-2.831.296	-2.691.186	-0.730.31	1.191.82	2.362.93	3.504.09	4.675.22	5.685.99	5.705.71	5.675.58	5.415.15	5.204.58	3.883.15	2.491.93	1.491.17	1.051.11	1.301.43	1.511.53	
Θ(30°)	2.722.58	2.171.58	0.781.012	-1.021.176	-2.141.202	-2.191.231	-2.671.350	-4.691.522	-4.341.259	-0.870.52	1.582.45	3.143.80	4.404.94	5.415.76	5.475.46	5.335.13	5.085.14	4.844.42	3.923.38	2.812.29	1.801.33	1.091.18	1.531.94	2.322.58	
Θ(37.5°)	3.913.87	3.452.78	1.790.64	-0.491.124	-1.301.078	-1.001.43	0.610.23	-0.851.258	-4.521.273	-2.641.012	1.512.95	3.303.82	4.174.47	4.724.95	5.095.12	5.014.75	4.414.11	3.903.75	3.623.43	2.912.83	2.401.88	1.461.42	1.822.54	3.113.60	
Θ(45°)	4.624.65	4.263.48	2.280.77	-0.661.150	-1.271.026	0.881.84	2.422.45	1.800.43	-1.691.382	-3.531.110	1.092.48	3.203.53	3.583.54	3.543.61	3.673.66	3.583.34	3.052.76	2.612.53	2.562.69	2.782.74	2.481.99	1.511.35	1.752.43	3.434.18	

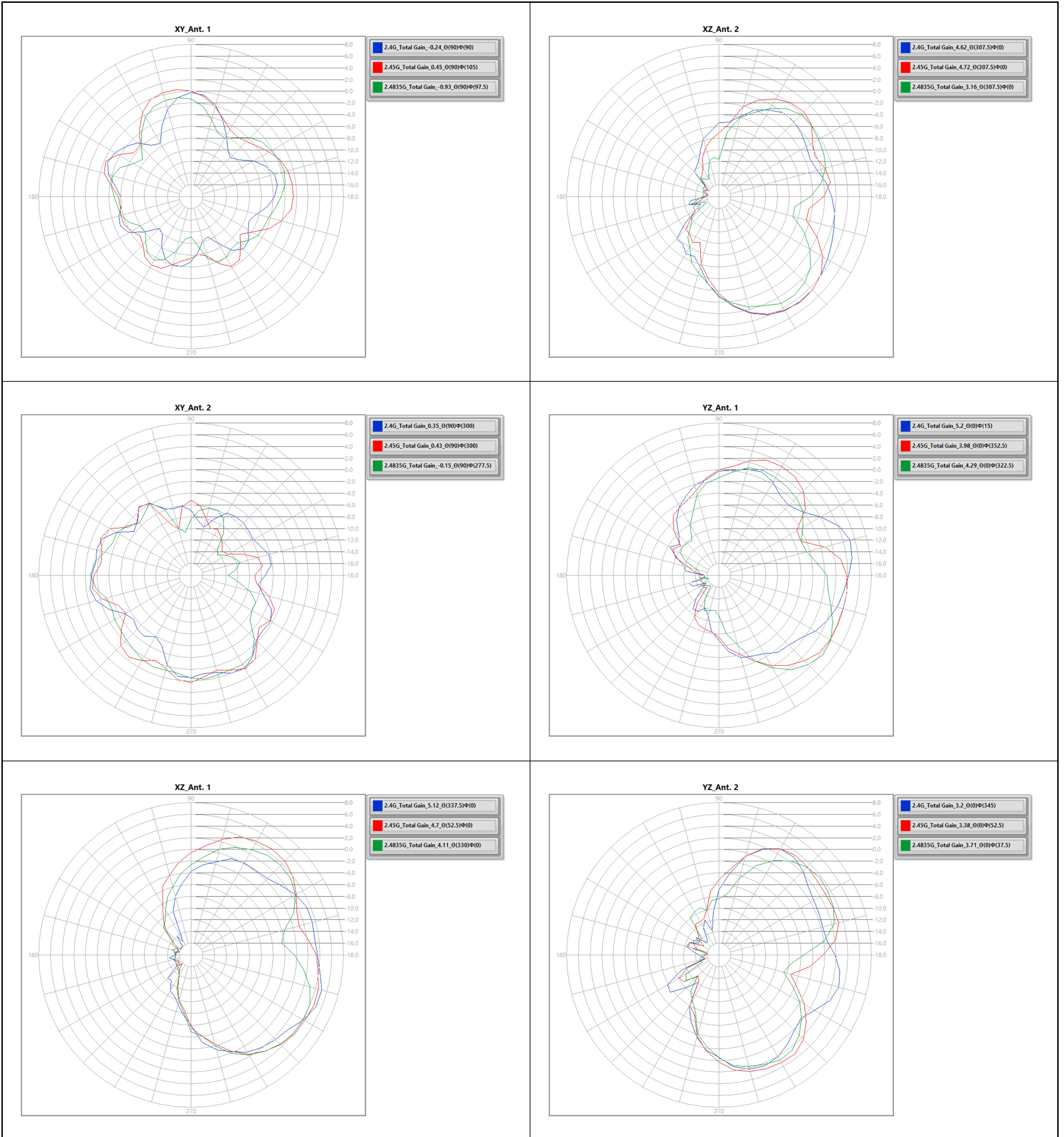


Antenna Pattern_Radio 1_2.4GHz

Appendix D

Θ(22.5°)	-0.20/0.77	1.85/2.85	3.76/4.43	4.88/5.07	5.02/4.79	4.37/3.78	3.10/2.42	1.78/1.29	0.97/0.90	0.99/1.16	1.37/1.47	1.36/0.92	0.15/-0.98	-2.35/-3.88	-5.34/-6.85	-7.94/-7.96	-7.14/-6.14	-5.19/-4.43	-3.62/-2.98	-2.34/-1.88	-1.62/-1.53	-1.52/-1.54	-1.53/-1.50	-1.31/-0.88
Θ(30°)	0.39/0.78	1.53/2.46	3.42/4.22	4.78/5.01	4.96/4.69	4.23/3.60	2.89/2.12	1.36/0.77	0.46/0.57	1.07/1.71	2.33/2.78	2.97/2.87	2.45/1.72	0.68/-0.48	-1.70/-2.54	-2.93/-2.82	-2.42/-1.97	-1.63/-1.36	-1.20/-1.02	-0.82/-0.67	-0.62/-0.66	-0.67/-0.56	-0.34/-0.09	0.07/0.19
Θ(37.5°)	1.97/1.64	1.76/2.35	3.06/3.71	4.21/4.50	4.60/4.52	4.20/3.69	3.02/2.29	1.63/1.12	0.80/0.91	1.51/2.40	3.10/3.62	3.95/4.07	3.90/3.32	2.36/1.13	-0.03/-0.75	-0.98/-0.86	-0.54/-0.13	0.25/0.57	0.77/0.81	0.75/0.65	0.49/0.36	0.31/0.69	1.42/2.09	2.42/2.31
Θ(45°)	2.47/1.91	1.76/2.06	2.45/2.80	3.10/3.52	3.97/4.32	4.34/3.99	3.31/2.55	2.01/1.73	1.42/1.24	1.65/2.46	3.24/3.78	4.13/4.48	4.56/4.18	3.18/1.73	0.23/-0.49	-0.55/-0.32	0.06/0.57	1.23/1.91	2.37/2.44	2.19/1.84	1.46/1.06	0.85/1.20	2.09/2.96	3.33/3.08
Θ(52.5°)	2.16/1.64	1.56/1.77	1.86/1.75	1.82/2.44	3.37/4.18	4.55/4.26	3.38/2.38	1.95/2.01	1.84/1.42	1.53/2.37	3.25/3.67	4.02/4.54	4.72/4.22	2.98/1.22	-0.19/-0.54	-0.21/0.14	0.47/0.98	1.87/2.77	3.29/3.28	2.88/2.37	1.94/1.41	0.93/1.07	1.97/2.84	3.13/2.84
Θ(60°)	1.26/0.89	1.01/1.14	0.87/0.20	-0.11/0.73	2.22/3.54	4.22/4.02	2.89/1.32	0.83/1.42	1.70/1.20	0.88/1.73	2.74/3.12	3.36/3.97	4.42/4.05	2.69/0.71	-0.77/-0.63	0.10/0.49	0.56/0.72	1.54/2.57	3.22/3.28	2.94/2.56	2.33/1.85	1.05/0.83	1.62/2.42	2.57/2.10
Θ(67.5°)	-0.11/-0.34	-0.13/-0.17	-0.94/-2.35	-3.28/-2.30	-0.28/1.53	2.60/2.62	1.48/-0.56	-1.43/-0.09	0.70/0.14	-0.32/0.76	2.04/2.33	2.53/3.27	3.72/3.16	1.55/-0.46	-1.20/-0.36	0.59/0.85	0.45/0.13	0.83/2.14	3.01/3.13	2.87/2.68	2.62/2.09	0.94/0.31	0.99/1.78	1.78/0.96
Θ(75°)	-2.09/-2.04	-1.64/-1.82	-2.81/-4.56	-5.90/-5.31	-3.45/-1.73	-0.42/0.15	-0.55/-2.75	-4.55/-2.42	-0.81/-1.26	-2.35/-1.13	0.58/1.08	1.02/1.73	2.53/2.31	0.82/-1.17	-1.74/-0.58	0.54/0.74	0.01/-0.79	-0.14/1.52	2.55/2.59	2.19/2.09	2.23/1.70	0.14/-1.06	-0.44/0.35	0.19/-0.89
Θ(82.5°)	-5.57/-4.68	-4.44/-5.12	-6.69/-8.75	-9.44/-7.75	-5.82/-4.75	-3.62/-2.69	-3.19/-5.61	-8.27/-4.81	-1.95/-2.09	-3.50/-2.21	-0.50/-0.39	-0.85/-0.15	0.77/0.51	-1.13/-3.11	-3.21/-1.55	-0.18/0.04	-0.74/-1.42	-0.43/1.14	1.78/1.45	0.84/1.01	1.38/0.71	-1.41/-2.92	-2.14/-1.69	-2.60/-4.38
Θ(90°)	-7.13/-5.69	-6.23/-8.44	-10.73/-11.30	-10.44/-9.63	-8.92/-9.38	-8.03/-6.02	-5.23/-6.26	-9.87/-8.44	-3.88/-3.27	-5.11/-4.54	-2.02/-1.30	-2.22/-2.46	-1.39/-1.04	-2.34/-4.59	-5.13/-3.03	-1.06/-0.48	-1.22/-2.28	-1.52/-0.07	0.24/-0.55	-1.25/-0.47	0.43/-0.04	-2.11/-3.38	-2.49/-2.58	-4.26/-6.72
Θ(97.5°)	-8.06/-6.28	-7.27/-10.24	-11.56/-10.42	-8.86/-8.40	-9.39/-13.02	-13.79/-9.42	-7.07/-6.81	-9.38/-9.72	-4.94/-4.02	-6.24/-6.41	-3.48/-3.00	-4.61/-5.31	-3.98/-3.34	-4.45/-6.24	-6.18/-4.09	-2.34/-2.03	-3.39/-4.44	-2.63/-1.19	-1.49/-2.82	-2.99/-1.43	-0.30/-0.89	-3.20/-4.39	-3.45/-3.87	-6.09/-8.24
Θ(105°)	-9.28/-7.40	-9.07/-13.15	-14.59/-12.25	-10.19/-9.31	-10.29/-13.93	-16.27/-15.28	-10.06/-7.41	-8.35/-11.03	-7.19/-5.38	-7.29/-8.72	-5.73/-4.55	-6.70/-7.15	-6.18/-4.75	-5.08/-6.34	-6.88/-5.66	-4.13/-3.81	-5.11/-5.30	-3.13/-2.25	-3.57/-6.15	-5.98/-3.57	-2.27/-3.05	-5.56/-5.94	-4.74/-5.57	-8.69/-11.01
Θ(112.5°)	-10.74/-8.90	-11.27/-15.78	-13.57/-11.43	-10.92/-11.33	-12.41/-13.70	-13.83/-15.44	-11.28/-7.44	-7.66/-10.60	-8.64/-6.89	-8.50/-10.84	-8.57/-7.19	-7.68/-9.55	-9.55/-8.26	-7.78/-7.60	-7.47/-6.66	-5.60/-5.62	-7.08/-6.36	-4.38/-4.43	-7.02/-9.41	-6.79/-4.66	-3.90/-4.90	-6.84/-6.73	-6.37/-7.83	-11.32/-13.03
Θ(120°)	-12.59/-11.18	-13.43/-15.74	-14.03/-11.71	-10.52/-10.99	-11.77/-11.41	-12.24/-15.34	-11.51/-7.58	-7.15/-10.33	-12.16/-10.35	-11.17/-12.06	-9.42/-7.00	-6.51/-7.49	-9.03/-9.47	-8.09/-7.25	-7.53/-7.98	-7.80/-8.40	-9.51/-7.23	-4.98/-5.29	-8.00/-10.09	-8.54/-7.27	-7.10/-8.32	-10.15/-9.71	-9.51/-10.98	-13.32/-14.20
Θ(127.5°)	-13.30/-12.69	-12.60/-12.50	-12.29/-12.85	-12.44/-12.59	-12.85/-12.38	-13.66/-13.79	-11.41/-8.57	-8.10/-10.34	-12.48/-12.31	-13.75/-15.27	-12.39/-9.93	-9.18/-9.36	-9.85/-9.20	-8.40/-8.73	-9.81/-10.91	-11.76/-11.81	-10.19/-7.34	-6.43/-7.90	-12.28/-14.18	-12.01/-11.35	-11.55/-12.00	-11.99/-10.71	-10.72/-12.48	-13.20/-12.88
Θ(135°)	-13.52/-12.93	-12.21/-12.07	-11.09/-12.26	-15.28/-14.35	-12.80/-11.65	-11.57/-12.92	-12.98/-13.23	-12.45/-13.54	-14.54/-13.91	-14.25/-15.72	-15.52/-13.21	-11.66/-10.20	-10.00/-10.49	-10.47/-10.77	-10.92/-12.03	-12.82/-12.61	-10.80/-9.15	-8.80/-10.48	-13.00/-12.05	-10.47/-9.88	-10.41/-10.63	-10.58/-10.03	-10.62/-12.47	-13.41/-12.93
Θ(142.5°)	-15.97/-14.80	-15.55/-16.08	-14.56/-14.51	-15.77/-15.81	-15.63/-15.09	-14.50/-14.37	-14.99/-15.55	-15.11/-15.94	-15.53/-14.27	-15.68/-15.10	-15.20/-14.42	-13.71/-12.92	-13.33/-13.82	-13.57/-13.30	-13.05/-12.19	-11.41/-10.18	-9.39/-8.73	-8.79/-9.42	-10.21/-10.96	-11.61/-12.40	-13.62/-15.39	-15.98/-15.76	-15.38/-15.01	-15.51/-15.17
Θ(157.5°)	-15.31/-15.90	-15.89/-15.55	-14.73/-14.71	-13.69/-13.98	-14.89/-15.18	-13.92/-13.01	-12.53/-12.22	-12.31/-13.38	-15.36/-15.50	-15.71/-15.39	-15.09/-15.44	-14.67/-13.74	-13.26/-13.19	-12.93/-12.61	-11.79/-10.85	-10.29/-9.96	-9.56/-9.74	-10.22/-10.91	-12.26/-13.31	-14.47/-15.02	-14.82/-14.36	-13.60/-13.07	-13.47/-14.60	-15.75/-15.65
Θ(165°)	-15.33/-14.93	-14.07/-14.74	-14.69/-15.51	-15.79/-15.07	-14.24/-13.49	-13.31/-13.21	-12.69/-12.66	-13.27/-14.68	-16.17/-15.90	-14.89/-15.00	-14.76/-14.57	-15.19/-15.00	-14.14/-14.13	-14.01/-13.52	-13.43/-13.24	-12.96/-12.62	-12.11/-12.42	-13.15/-13.71	-15.59/-15.22	-15.84/-15.23	-16.24/-15.46	-15.22/-15.49	-15.26/-15.45	-15.32/-15.83
Θ(172.5°)	-16.17/-15.48	-15.17/-15.41	-15.91/-15.32	-14.82/-15.25	-14.67/-14.89	-15.13/-15.73	-15.79/-15.49	-15.41/-15.17	-14.84/-15.91	-14.99/-14.56	-15.92/-15.12	-15.57/-15.03	-15.14/-14.99	-16.24/-15.79	-15.63/-15.41	-14.95/-15.57	-15.86/-14.55	-15.43/-14.83	-15.23/-15.38	-15.12/-15.43	-15.03/-15.37	-15.31/-15.60	-14.68/-15.10	-15.58/-14.76
Θ(180°)	-15.36/-15.01	-14.66/-15.67	-15.59/-15.48	-15.10/-15.38	-15.73/-15.25	-15.53/-14.96	-15.89/-15.96	-15.02/-15.53	-15.25/-15.28	-15.40/-15.42	-15.33/-15.39	-15.83/-15.32	-15.67/-15.04	-15.87/-14.93	-16.15/-14.80	-15.88/-15.38	-15.71/-15.28	-15.64/-15.31	-15.46/-15.00	-15.74/-15.88	-15.64/-15.47	-14.96/-15.92	-15.11/-15.05	-15.25/-14.85
Freq(Hz)	2.4835GPol.	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°)	-2.42/-2.36	-2.34/-2.44	-2.58/-2.75	-2.86/-3.03	-3.17/-3.31	-3.39/-3.51	-3.52/-3.49	-3.67/-3.80	-3.83/-3.79	-3.60/-3.60	-3.51/-3.42	-3.33/-3.18	-3.08/-2.81	-2.63/-2.45	-2.36/-2.20	-2.03/-1.89	-1.82/-1.88	-1.88/-1.88	-1.87/-1.96	-2.13/-2.33	-2.55/-2.76	-2.94/-2.96	-2.94/-2.88	-2.74/-2.59
Θ(7.5°)	-0.40/-0.01	0.24/0.41	0.50/0.54	0.56/0.53	0.49/0.41	0.24/0.09	0.01/-0.12	-0.43/-0.83	-1.30/-1.71	-2.15/-2.55	-3.02/-3.49	-4.00/-4.51	-4.94/-5.37	-5.67/-5.83	-5.74/-5.78	-6.06/-6.13	-6.18/-6.19	-6.17/-5.94	-5.74/-5.57	-5.40/-5.05	-4.59/-4.13	-3.74/-3.27	-2.71/-2.17	-1.59/-1.00
Θ(15°)	0.84/1.44	1.93/2.32	2.61/2.82	2.93/2.96	2.93/2.86	2.68/2.53	2.35/2.12	1.71/1.28	0.80/0.31	-0.22/-0.76	-1.35/-2.04	-2.92/-3.84	-4.91/-5.93	-6.71/-7.24	-7.46/-7.52	-7.48/-7.39	-7.33/-7.36	-7.25/-6.94	-6.55/-6.05	-5.40/-4.60	-3.79/-3.12	-2.61/-2.16	-1.65/-1.14	-0.52/0.16
Θ(22.5°)	1.34/1.92	2.47/2.97	3.37/3.68	3.89/3.95	3.92/3.81	3.62/3.39	3.19/2.93	2.60/2.20	1.76/1.35	0.99/0.68	0.33/-0.10	-0.68/-1.45	-2.34/-3.28	-4.15/-4.77	-4.80/-4.54	-4.24/-4.10	-4.14/-4.33	-4.54/-4.68	-4.52/-4.20	-3.50/-2.62	-1.87/-1.25	-0.82/-0.49	-0.19/0.05	0.36/0.79
Θ(30°)	1.65/1.90	2.23/2.66	3.16/3.63	3.96/4.13	4.14/4.04	3.86/3.68	3.51/3.31	3.01/2.67	2.26/1.88	1.63/1.52	1.54/1.42	1.17/0.68	-0.02/-0.87	-1.74/-2.34	-2.43/-2.14	-1.74/-1.46	-1.43/-1.58	-1.84/-2.07	-2.10/-1.87	-1.39/-0.78	-0.180/-27	0.65/0.92	1.15/1.28	1.37/1.46
Θ(37.5°)	1.92/1.74	1.76/2.09	2.72/3.35	3.85/4.16	4.26/4.21	4.04/3.85	3.71/3.61	3.45/3.11	2.62/2.16	1.96/2.12	2.39/2.56	2.53/2.24	1.68/0.85	-0.00/-0.65	-0.88/-0.76	-0.47/-0.29	-0.24/-0.29	-0.37/-0.42	-0.27/0.03	0.37/0.72	1.03/1.27	1.42/1.59	1.81/1.99	2.09/2.09
Θ(45°)	1.79/1.29	1.05/1.35	1.99/2.64	3.23/3.72	4.05/4.13	3.89/3.49	3.23/2.27	3.44/3.34	2.84/2.23	1.97/2.20	2.62/2.99	3.20/3.15	2.72/1.91	0.90/0.15	-0.23/-0.29	-0.19/-0.05	0.13/0.33	0.56/0.88	1.31/1.73	2.00/2.13	2.20/2.15	1.94/1.75	1.83/2.05	2.26/2.19
Θ(52.5°)	0.95/0.46	0.25/0.51	1.06/1.56	2.17/2.95	3.63/3.90	3.55/2.77	2.15/2.26	2.85/3.04	2.54/1.77	1.51/1.90	2.49/3.03	3.49/3.62	3.16/2.19	1.21/0.62	0.30/0.15	0.07/0.21	0.56/0.98	1.44/1.98	2.51/2.86	2.98/2.96	2.88/2.60	2.06/1.44	1.18/1.35	1.53/1.42
Θ(60°)	-0.64/-0.97	-0.82/-0.43	-0.11/0.02	0.52/1.70	2.81/3.35	3.00/1.88	0.63/0.60	1.69/2.31	1.96/1.03	0.64/1.05	1.66/2.26	2.97/3.40	3.10/2.19	1.16/0.67	0.49/0.32	0.21/0.35	0.87/1.43	1.88/2.28	2.69/2.96	3.00/2.91	2.79/2.41	1.55/0.46	-0.11/0.01	0.10/-0.11
Θ(67.5°)	-2.49/-2.80	-2.38/-1.94	-2.02/-2.36	-2.03/-0.45	1.10/1.87	1.58/0.26	-1.54/-1.74	-0.13/0.93	0.70/-0.28	-0.47/0.13	0.73/1.30	2.09/2.55	2.16/1.02	0.11/-0.04	0.04/-0.02	0.04/0.39	1.00/1.48	1.65/1.82	2.21/2.57	2.62/2.53	2.44/2.01	0.89/-0.58	-1.27/-0.99	-0.92/-1.51
Θ(75°)	-4.01/-4.36	-3.83/-3.65	-4.15/-5.01	-4.98/-3.29	-1.55/-0.77	-1.10/-2.46	-4.49/-5.02	-2.91/-1.12	-0.96/-2.06	-2.27/-1.42	-0.80/-0.29	0.65/1.53	1.50/0.55	-0.51/-0.62	-0.32/-0.28	-0.43/-0.20	0.33/0.68	0.71/0.92	1.63/2.18	2.22/2.05	1.92/1.46	0.13/-1.80	-2.72/-2.36	-2.25/-2.9

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 Radio 2_5GHz

Appendix E

Total Gain Data

Freq(Hz)	5.2GPol.	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°)	-6.43/-6.51	-6.68/-6.69	-6.48/-6.35	-6.65/-6.45	-6.42/-6.31	-6.54/-6.03	-6.30/-6.40	-6.44/-6.28	-6.24/-6.33	-6.10/-6.09	-6.19/-6.34	-7.04/-6.98	-6.45/-6.39	-6.65/-6.85	-6.54/-6.80	-6.55/-6.47	-6.69/-6.90	-7.37/-6.81	-6.83/-6.57	-6.05/-5.42	-5.16/-4.89	-4.60/-4.52	-4.54/-4.89	-5.46/-5.79
Θ(7.5°)	-11.76/-11.43	-11.43/-10.98	-10.44/-10.16	-9.53/-8.94	-8.19/-7.18	-6.72/-6.45	-6.37/-6.13	-5.64/-5.14	-4.78/-4.72	-4.59/-4.40	-4.24/-3.87	-3.72/-3.44	-3.40/-3.29	-3.13/-2.88	-2.56/-2.53	-2.61/-2.60	-2.74/-3.13	-3.83/-4.13	-4.71/-5.09	-5.91/-7.09	-7.92/-8.74	-9.67/-10.34	-11.42/-12.02	-12.23/-12.10
Θ(15°)	-4.73/-3.81	-3.38/-3.30	-3.15/-3.14	-2.59/-2.05	-1.42/-0.89	-0.56/-0.46	-0.59/-0.66	-0.96/-1.34	-1.91/-2.68	-3.30/-3.86	-4.27/-4.26	-3.90/-3.77	-4.15/-4.41	-4.06/-3.30	-2.19/-1.39	-0.92/-0.67	-0.41/-0.18	-0.09/0.01	0.05/-0.11	-0.40/-1.01	-1.60/-2.25	-3.17/-4.40	-5.25/-5.99	-6.50/-5.73
Θ(22.5°)	-2.14/-0.96	0.03/-0.62	0.93/-0.03	1.54/-0.29	2.28/-0.07	1.72/-1.52	1.06/-1.82	1.56/-1.27	0.81/-0.19	-0.39/-0.73	-0.81/-1.03	-1.39/-2.35	-3.69/-4.92	-4.55/-3.35	-2.86/-2.93	-3.64/-3.90	-3.30/-2.48	-1.53/-0.97	-1.16/-1.79	-2.44/-2.30	-1.20/-0.10	0.58/-0.71	0.20/-0.93	-2.49/-2.94
Θ(30°)	-1.01/-0.55	0.58/-1.59	2.11/-2.12	2.21/-2.22	1.75/-0.99	0.30/-0.52	1.17/-1.01	-0.06/-0.78	-0.55/-0.08	0.25/-0.56	1.09/-1.72	2.09/-1.98	1.27/-0.11	-0.99/-0.83	-1.15/-2.48	-4.08/-4.38	-3.34/-1.75	-0.63/-0.68	-1.86/-3.66	-5.36/-5.70	-3.91/-1.54	0.06/-0.96	1.03/-0.65	-0.27/-0.89
Θ(37.5°)	-0.21/-0.41	0.18/-1.39	2.13/-2.04	1.70/-1.17	0.96/-1.55	2.49/-3.41	3.84/-3.38	2.01/-0.84	0.77/-0.78	0.85/-0.71	0.65/-1.24	2.23/-1.77	3.12/-1.85	0.69/-1.29	1.78/-1.01	-0.36/-0.87	-0.28/-0.35	-0.00/-1.29	-2.83/-4.78	-5.93/-5.45	-4.06/-1.79	-0.22/-0.32	-0.02/-0.43	-0.51/-0.27
Θ(45°)	0.33/-0.00	0.42/-1.97	2.75/-2.36	1.57/-0.69	0.25/-1.02	1.91/-2.76	3.59/-3.86	2.68/-1.09	1.40/-2.45	3.09/-3.01	1.54/-0.01	-0.09/-0.95	2.10/-1.53	-0.25/-0.59	2.19/-1.66	-0.15/-1.16	-1.12/-0.74	-0.92/-1.39	-2.53/-4.23	-4.15/-3.20	0.55/-1.18	0.23/-0.49	-0.12/-0.00	
Θ(52.5°)	2.08/-1.89	2.15/-3.70	4.10/-3.20	2.32/-1.88	1.50/-1.16	0.56/-1.10	2.26/-3.13	1.55/-1.80	-1.81/-0.64	2.02/-2.29	0.51/-2.23	-2.32/-1.66	-0.82/-0.09	-1.01/-0.12	1.84/-1.08	-0.08/-0.35	-0.39/-0.10	0.20/-0.17	-1.45/-2.87	-2.10/-1.56	-1.19/-0.15	1.91/-2.64	1.66/-1.30	1.53/-1.04
Θ(60°)	2.88/-2.92	2.95/-3.76	3.96/-2.35	3.12/-3.54	3.59/-2.90	1.19/-0.36	0.35/-2.11	1.83/-0.22	-0.49/-0.03	0.64/-2.00	1.62/-1.18	-1.76/-1.96	-2.44/-0.65	-0.79/-0.78	1.57/-1.01	0.68/-0.89	1.16/-1.92	2.62/-2.83	1.75/-3.30	0.47/-0.90	0.58/-1.40	2.81/-3.56	2.34/-1.86	2.40/-1.66
Θ(67.5°)	3.15/-3.32	2.94/-3.06	3.17/-2.60	2.89/-3.71	4.38/-4.24	2.23/-0.17	0.79/-2.68	2.91/-2.62	2.94/-2.63	1.37/-2.48	1.51/-1.70	-1.57/-1.57	-1.82/-0.03	-0.59/-0.55	1.10/-0.05	0.64/-1.24	2.18/-3.45	3.99/-3.93	2.81/-1.51	1.74/-2.24	1.64/-2.32	3.26/-3.68	2.24/-1.69	2.19/-1.54
Θ(75°)	2.21/-2.57	1.95/-1.68	1.77/-1.41	1.85/-2.86	3.66/-3.41	1.27/-0.47	0.73/-2.47	2.98/-3.07	3.84/-3.63	1.80/-1.90	1.58/-1.58	-0.97/-0.95	-1.89/-0.64	0.18/-1.60	-0.48/-0.38	0.84/-1.85	2.89/-4.28	4.55/-4.07	3.03/-2.38	2.39/-2.47	1.83/-2.38	3.06/-2.80	0.55/-0.07	1.21/-0.87
Θ(82.5°)	1.37/-1.39	0.17/-0.33	0.23/-0.38	0.04/-0.96	1.92/-1.59	0.06/-0.84	0.24/-1.57	2.12/-2.05	2.90/-2.48	0.07/-0.58	0.11/-2.71	-1.89/-2.51	-3.10/-1.38	-2.22/-3.66	-2.26/-1.07	0.14/-1.24	2.28/-1.49	3.91/-2.83	1.96/-1.66	2.00/-1.65	0.86/-1.57	2.37/-1.41	-1.27/-2.22	-0.55/-0.57
Θ(90°)	-0.37/-0.16	-1.87/-1.87	-1.95/-2.70	-2.75/-1.90	-0.83/-1.53	-2.91/-3.23	-2.27/-1.15	-0.16/-0.01	0.78/-0.82	-1.72/-2.62	-1.17/-3.76	-4.78/-4.32	-4.64/-4.26	-2.76/-6.17	-4.98/-3.42	-2.43/-0.69	0.47/-2.66	1.77/-0.61	-0.14/-0.71	0.15/-0.00	-1.54/-0.70	0.39/-0.57	-3.61/-4.24	-2.50/-1.77
Θ(97.5°)	-1.51/-1.55	-2.91/-1.34	-4.46/-5.20	-4.74/-4.83	-4.08/-6.50	-6.33/-6.49	-4.98/-4.23	-3.24/-2.79	-1.75/-2.03	-5.00/-4.56	-3.35/-6.11	-4.48/-6.50	-6.44/-6.63	-5.87/-6.81	-6.18/-4.63	-3.42/-2.45	-1.90/-0.33	-2.45/-3.62	-3.48/-4.27	-4.28/-3.90	-4.60/-3.27	-2.91/-3.55	-5.68/-6.13	-3.64/-3.25
Θ(105°)	-3.46/-3.07	-4.89/-6.67	-6.76/-6.98	-7.09/-6.26	-5.57/-6.80	-7.54/-6.73	-5.21/-6.54	-5.65/-4.47	-2.63/-3.20	-5.50/-6.83	-6.86/-6.74	-10.38/-8.03	-6.53/-9.87	-5.03/-10.86	-9.54/-7.40	-6.14/-5.06	-4.59/-4.16	-6.83/-7.59	-6.84/-7.57	-8.07/-7.77	-7.95/-4.88	-6.26/-7.04	-6.75/-5.27	
Θ(112.5°)	-5.39/-5.94	-6.84/-8.34	-8.58/-10.33	-10.37/-8.78	-7.35/-8.68	-10.95/-9.10	-5.80/-5.92	-8.00/-6.10	-4.06/-5.66	-10.87/-12.40	-7.84/-7.65	-10.98/-11.67	-12.78/-12.52	-8.70/-12.49	-10.99/-8.81	-6.67/-5.09	-6.64/-8.78	-8.32/-6.35	-7.78/-7.90	-6.86/-4.48	-4.66/-7.14	-7.82/-8.25	-8.83/-8.85	
Θ(120°)	-8.53/-7.20	-9.85/-11.54	-10.71/-10.38	-11.87/-11.91	-11.02/-13.94	-14.13/-13.52	-10.07/-9.78	-11.36/-10.52	-7.02/-6.75	-8.80/-9.81	-10.12/-9.88	-15.63/-14.99	-13.47/-11.39	-7.79/-11.52	-12.44/-9.45	-8.68/-8.59	-3.91/-5.80	-7.79/-9.34	-8.21/-7.09	-8.60/-7.63	-6.71/-6.94	-7.44/-12.70	-14.27/-10.91	-7.87/-9.39
Θ(127.5°)	-9.74/-10.35	-10.15/-9.04	-11.81/-14.71	-15.57/-11.43	-11.23/-14.10	-14.11/-14.04	-14.97/-14.45	-13.77/-10.73	-9.30/-8.91	-10.53/-12.46	-14.03/-15.79	-15.28/-14.61	-10.68/-8.32	-9.43/-13.04	-14.47/-12.59	-11.56/-8.74	-7.50/-11.67	-13.28/-11.89	-9.29/-10.79	-15.60/-13.84	-9.51/-12.57	-12.03/-15.45	-15.59/-14.01	-8.49/-8.37
Θ(135°)	-10.45/-9.10	-10.38/-12.30	-11.06/-13.84	-13.98/-11.14	-12.91/-14.11	-12.18/-10.94	-12.10/-14.40	-15.05/-12.11	-8.26/-7.97	-12.34/-15.80	-13.90/-15.04	-13.10/-14.15	-15.21/-11.72	-11.37/-13.96	-15.35/-13.70	-12.09/-8.35	-7.49/-10.95	-11.23/-9.70	-9.13/-12.63	-13.50/-12.60	-7.93/-8.62	-11.99/-14.59	-15.59/-13.54	-10.04/-8.00
Θ(142.5°)	-10.34/-11.73	-12.84/-13.36	-13.32/-14.36	-13.69/-15.23	-15.06/-11.78	-12.68/-15.09	-15.37/-15.12	-11.42/-10.32	-13.07/-12.69	-12.53/-16.08	-14.50/-15.52	-15.45/-13.05	-12.66/-11.68	-13.50/-15.96	-16.21/-13.60	-9.82/-9.66	-10.81/-10.16	-10.38/-11.90	-12.56/-12.60	-10.30/-10.59	-9.57/-8.83	-12.11/-15.29	-15.25/-13.37	-9.57/-8.73
Θ(150°)	-13.43/-15.80	-14.27/-13.51	-14.72/-15.84	-15.83/-15.44	-15.13/-12.92	-13.62/-14.14	-14.90/-14.34	-13.18/-8.90	-7.61/-11.34	-14.97/-13.86	-15.41/-15.50	-15.82/-14.31	-12.79/-12.88	-14.68/-14.98	-14.57/-14.90	-15.67/-15.27	-14.95/-15.25	-15.38/-13.65	-13.89/-15.62	-14.59/-14.02	-15.74/-15.37	-15.06/-14.83	-14.98/-12.23	-12.00/-12.42
Θ(157.5°)	-11.11/-13.41	-15.47/-15.85	-14.91/-15.62	-13.71/-14.58	-14.59/-12.16	-9.55/-7.95	-7.50/-9.01	-11.39/-14.59	-15.20/-14.85	-15.28/-15.01	-15.58/-15.05	-13.86/-14.91	-15.49/-15.15	-15.62/-15.60	-15.39/-15.24	-15.09/-15.78	-14.88/-15.43	-15.77/-15.51	-15.18/-15.50	-15.66/-15.92	-15.16/-15.95	-14.78/-15.96	-14.42/-13.84	-12.65/-11.55
Θ(165°)	-9.27/-15.05	-14.87/-13.72	-14.76/-13.28	-14.17/-14.32	-15.58/-15.28	-15.06/-11.78	-14.59/-13.07	-14.31/-13.43	-13.66/-14.15	-15.22/-15.42	-15.36/-12.72	-10.28/-10.29	-12.37/-15.61	-15.70/-15.30	-15.04/-15.98	-15.42/-15.43	-15.10/-15.36	-14.99/-16.15	-15.11/-14.91	-15.14/-13.48	-14.45/-15.95	-15.69/-13.75	-13.95/-14.71	
Θ(172.5°)	-12.83/-11.85	-10.46/-10.04	-9.66/-9.80	-9.60/-8.98	-9.38/-10.71	-12.25/-15.05	-14.76/-15.59	-15.66/-15.56	-15.04/-13.99	-13.20/-13.23	-13.41/-13.29	-12.59/-11.56	-11.55/-11.25	-10.37/-10.48	-10.68/-11.30	-11.90/-12.88	-13.68/-14.04	-15.44/-15.42	-16.21/-15.37	-15.33/-14.56	-14.37/-14.14	-14.99/-15.69	-16.21/-15.64	-14.85/-12.88
Θ(180°)	-15.32/-15.63	-15.23/-15.12	-15.41/-15.15	-15.28/-15.40	-14.96/-15.25	-15.74/-15.06	-14.71/-15.96	-15.81/-15.62	-15.96/-14.92	-14.47/-15.64	-15.46/-16.00	-15.11/-15.30	-15.65/-15.28	-15.01/-16.06	-15.21/-14.89	-15.99/-15.14	-15.50/-15.69	-15.40/-14.65	-15.85/-16.03	-15.41/-15.81	-15.03/-15.31	-15.12/-14.94	-14.10/-14.67	-14.08/-13.94
Freq(Hz)	5.3GPol.	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°)	-5.42/-5.40	-5.04/-4.93	-4.86/-4.95	-4.74/-4.65	-4.64/-4.87	-5.16/-5.25	-4.85/-4.46	-4.50/-4.77	-5.21/-5.49	-5.67/-5.86	-6.32/-6.75	-7.00/-7.48	-7.70/-8.14	-8.18/-7.73	-7.52/-7.79	-7.04/-6.72	-6.10/-5.78	-5.18/-5.35	-5.11/-5.27	-5.20/-5.33	-5.09/-5.45	-5.55/-5.52	-5.48/-5.83	-5.71/-5.44
Θ(7.5°)	-6.66/-6.30	-5.92/-5.69	-5.69/-5.59	-5.34/-5.32	-5.20/-5.35	-5.44/-5.21	-4.86/-4.73	-4.86/-5.22	-5.53/-5.56	-5.37/-5.15	-4.92/-4.82	-4.86/-4.66	-4.49/-4.35	-4.05/-3.72	-3.40/-3.00	-2.61/-2.37	-2.26/-2.32	-2.53/-3.12	-3.90/-4.82	-5.48/-6.70	-7.98/-9.12	-10.46/-11.48	-12.38/-12.05	-10.02/-7.66
Θ(15°)	-2.91/-2.60	-2.46/-2.27	-2.18/-1.80	-1.29/-0.87	-0.46/-0.11	0.11/-0.06	-0.03/-0.32	-1.24/-2.39	-3.71/-4.87	-5.69/-5.93	-5.66/-5.13	-4.63/-4.50	-4.49/-4.59	-4.08/-3.00	-1.34/-0.09	0.64/-0.03	0.95/-0.82	0.50/-0.02	-0.70/-1.35	-1.87/-2.39	-2.93/-3.21	-3.57/-4.06	-4.41/-4.48	-4.10/-3.41
Θ(22.5°)	0.13/-0.40	0.07/-1.19	1.43/-1.92	2.31/-2.69	2.77/-2.64	2.29/-2.01	1.90/-1.70	1.46/-0.99	0.48/-0.09	-0.68/-1.04	-1.38/-1.86	-2.74/-4.21	-5.66/-5.80	-3.91/-2.16	-1.38/-1.49	-1.80/-2.08	-1.83/-1.51	-1.83/-2.82	-4.52/-4.62	-7.08/-4.58	-3.30/-1.53	-0.29/-0.28	0.39/-0.25	-0.12/-0.08
Θ(30°)	0.81/-0.76	1.08/-0.61	1.97/-2.37	2.49/-2.43	1.83/-0.77	-0.33/-0.43	0.10/-0.12	-0.19/-0.52	-0.14/-0.81	1.60/-1.99	2.28/-2.45	0.83/-1.46	-0.20/-0.95	-0.72/-0.60	-2.09/-2.73	-2.15/-1.41	-1.81/-3.33	-5.80/-9.59	-11.85/-9.77	-5.12/-2.30	-0.40/-0.19	0.15/-0.53	0.86/-0.88	
Θ(37.5°)	-0.25/-0.57	-0.43/-0.75	1.73/-2.27	2.24/-2.07	1.94/-1.57																			



Antenna Pattern Radio 2_5GHz

Appendix E

Θ(22.5°)	-0.56/-1.18	-1.68/-1.05	0.18/-1.44	2.13/-2.26	1.59/-0.12	-2.14/-3.33	-2.60/-1.19	0.37/-1.41	2.13/-2.48	2.35/-1.53	0.64/-0.91	2.06/-2.85	3.13/-3.65	3.96/-3.56	2.70/-1.85	1.46/-1.27	0.61/-0.43	-1.37/-2.03	-2.30/-2.24	-1.64/-1.30	-0.96/-0.57	-0.34/-0.44	-0.42/-0.42	-0.41/-0.56
Θ(30°)	-0.40/-0.16	-0.04/-0.63	2.46/-3.88	4.43/-5.55	4.28/-3.06	0.30/-2.79	-2.22/-3.1	2.43/-3.94	4.28/-3.61	2.84/-1.59	-0.44/-1.64	-1.55/-0.24	1.34/-3.15	4.19/-4.08	3.04/-1.74	0.80/-0.06	-0.85/-0.87	0.02/-0.74	0.46/-0.52	-1.51/-2.00	-2.24/-1.90	-0.74/-0.64	1.68/-1.71	0.59/-0.36
Θ(142.5°)	-0.47/-0.41	0.61/-0.57	1.02/-1.78	2.14/-2.93	3.92/-3.98	1.81/-1.95	-4.24/-1.98	0.50/-2.17	2.62/-0.35	-3.38/-2.67	-0.53/-0.01	-0.48/-0.97	2.15/-2.02	1.76/-1.91	2.01/-2.27	-0.22/-1.37	-1.45/-0.51	1.11/-3.32	-0.14/-2.47	-1.83/-2.80	-0.96/-0.50	1.35/-0.91	-0.38/-1.05	
Θ(45°)	-1.52/-0.02	0.52/-0.14	-0.55/-1.64	-2.97/-1.82	1.32/-2.89	3.04/-1.98	0.68/-0.31	1.31/-2.41	2.78/-1.86	-0.29/-2.41	-0.27/-1.79	2.04/-2.14	2.70/-1.79	-0.43/-0.52	1.12/-1.38	0.12/-0.90	-0.93/-0.36	0.57/-0.46	-0.06/-0.91	-2.87/-3.77	-2.14/-1.01	-0.73/-0.67	-0.64/-1.25	-2.27/-1.29
Θ(52.5°)	0.17/-0.39	1.14/-0.99	0.07/-2.22	-5.58/-0.46	-0.69/-1.53	2.37/-2.04	1.12/-1.10	2.24/-2.64	2.08/-1.84	0.64/-2.16	1.17/-3.52	2.63/-1.51	1.33/-1.97	-2.97/-0.91	0.68/-0.45	-1.88/-2.32	-1.68/-1.47	-1.76/-1.22	-1.24/-3.48	-5.75/-4.99	-1.50/-0.25	0.09/-0.23	-0.00/-0.90	-0.97/-0.58
Θ(60°)	1.11/-0.93	2.23/-2.15	1.64/-0.92	-1.10/-1.62	-0.87/-0.09	0.75/-0.03	-0.09/-1.88	1.43/-1.16	-0.43/-5.02	-2.07/-2.74	-1.37/-2.01	2.24/-2.42	-0.39/-3.30	-3.60/-2.01	0.82/-0.79	-0.83/-1.55	-1.47/-0.26	0.12/-0.10	-0.35/-2.33	-3.21/-2.42	-0.30/-3.30	0.33/-0.60	0.23/-1.46	-1.86/-0.41
Θ(67.5°)	1.39/-1.38	2.40/-1.87	1.35/-1.60	0.37/-0.43	0.01/-0.81	0.43/-0.57	-3.01/-2.02	2.11/-2.79	-1.30/-8.31	-1.89/-0.54	-0.46/-1.11	0.40/-1.35	0.41/-4.63	-1.79/-1.63	0.58/-1.27	0.70/-0.26	0.39/-1.23	1.57/-1.96	1.13/-1.81	-1.89/-0.40	0.70/-0.48	0.21/-0.73	1.13/-0.34	-2.42/-0.42
Θ(75°)	0.65/-1.00	1.41/-0.34	-0.10/-0.91	0.43/-0.39	0.10/-0.62	0.55/-0.94	-0.77/-0.49	2.38/-3.61	2.50/-2.46	-1.36/-0.66	0.11/-1.18	0.38/-0.22	2.28/-4.37	-2.64/-2.87	-1.49/-0.20	1.81/-1.49	1.67/-2.37	2.36/-2.70	1.72/-0.84	-0.26/-1.56	1.47/-1.15	-0.09/-0.15	0.86/-1.17	-3.17/-1.70
Θ(82.5°)	-0.59/-0.70	-0.57/-1.57	-1.84/-0.16	-0.54/-1.69	-0.80/-1.08	-0.54/-1.14	0.51/-1.61	2.97/-2.56	2.51/-2.03	-1.29/-0.50	-0.03/-0.12	-0.80/-0.67	-0.35/-1.13	-4.42/-5.24	-3.44/-0.36	1.46/-0.92	1.75/-2.19	0.95/-1.65	0.28/-1.66	1.01/-0.05	-0.89/-1.94	-1.21/-0.47	-4.97/-3.10	
Θ(90°)	-1.86/-2.18	-1.97/-3.45	-3.92/-2.68	-2.12/-3.21	-2.64/-4.18	-2.36/-0.28	-0.73/-0.62	1.89/-0.26	1.21/-1.68	-3.73/-3.01	-1.57/-1.61	-1.02/-3.72	-0.75/-8.64	-5.31/-4.98	-6.73/-3.52	-1.24/-0.54	0.38/-0.81	0.24/-0.42	-0.50/-3.05	-0.79/-0.25	-0.42/-2.23	-1.98/-4.68	-2.76/-2.38	-6.42/-5.31
Θ(97.5°)	-2.94/-3.49	-3.38/-5.04	-6.43/-4.89	-4.31/-5.85	-4.68/-7.47	-4.08/-1.19	-2.81/-1.56	-0.07/-2.30	-1.54/-1.71	-5.90/-1.91	-3.68/-4.26	-4.08/-5.56	-5.27/-15.27	-9.46/-6.89	-6.21/-5.13	-3.58/-2.88	-3.10/-2.72	-4.54/-3.17	-4.85/-8.82	-4.51/-3.78	-3.85/-6.54	-5.12/-7.24	-3.61/-4.02	-7.71/-5.35
Θ(105°)	4.79/-5.01	-4.68/-6.14	-7.12/-6.71	-5.55/-7.72	-7.77/-10.68	-8.64/-2.28	-5.74/-5.91	-2.53/-3.42	-1.37/-5.59	-5.91/-4.69	-5.88/-7.82	-6.23/-7.66	-6.50/-10.19	-9.47/-5.75	-8.23/-8.96	-6.30/-4.26	-5.66/-4.96	-7.32/-4.26	-5.98/-11.62	-7.66/-7.21	-6.43/-6.73	-7.64/-10.11	-5.59/-6.85	-11.34/-6.71
Θ(112.5°)	-5.70/-6.49	-6.27/-8.93	-10.35/-9.54	-9.43/-7.62	-7.99/-11.99	-8.82/-5.57	-4.71/-5.49	-4.06/-3.42	-5.91/-3.60	-8.45/-7.37	-9.41/-6.80	-7.09/-9.80	-11.95/-14.10	-10.22/-8.15	-11.88/-9.04	-4.94/-5.24	-5.88/-4.17	-7.50/-4.39	-6.07/-12.06	-8.05/-6.65	-6.92/-6.31	-6.38/-11.49	-7.05/-7.91	-9.97/-7.64
Θ(120°)	-5.99/-7.34	-6.15/-6.06	-11.95/-18.27	-11.26/-15.07	-8.58/-8.40	-13.95/-10.03	-5.18/-5.67	-10.61/-8.60	-5.15/-7.02	-12.50/-9.36	-7.23/-9.47	-8.29/-12.86	-12.34/-15.10	-10.40/-6.59	-15.67/-11.35	-6.40/-6.64	-6.74/-5.62	-7.88/-6.75	-6.44/-9.67	-9.63/-7.74	-10.09/-7.13	-9.39/-13.94	-7.69/-7.91	-10.55/-8.60
Θ(127.5°)	-8.20/-9.09	-10.40/-10.16	-11.23/-11.31	-11.39/-13.72	-11.38/-7.83	-10.42/-12.72	-7.97/-6.09	-8.46/-10.32	-8.48/-8.24	-14.03/-12.03	-11.64/-10.40	-14.83/-15.13	-15.44/-11.76	-6.86/-7.89	-14.19/-13.51	-9.07/-11.36	-7.55/-10.19	-13.70/-9.98	-9.65/-11.99	-14.74/-9.75	-10.83/-13.76	-8.77/-13.90	-7.81/-8.13	-10.62/-10.71
Θ(135°)	-9.55/-11.98	-12.42/-11.88	-11.61/-10.19	-12.14/-13.17	-14.64/-11.30	-8.90/-7.88	-13.74/-13.87	-11.55/-8.87	-9.55/-12.68	-14.48/-13.13	-12.50/-13.60	-15.98/-13.76	-11.32/-9.75	-11.35/-13.67	-15.61/-9.06	-7.44/-7.09	-6.57/-9.58	-10.87/-8.64	-7.62/-8.36	-11.02/-8.25	-7.23/-7.88	-8.96/-15.67	-14.50/-12.69	-10.86/-9.81
Θ(142.5°)	-11.78/-9.88	-9.99/-10.35	-11.10/-12.27	-8.89/-10.16	-15.64/-13.47	-12.09/-10.68	-13.20/-15.16	-15.45/-13.27	-8.29/-7.84	-12.11/-12.44	-11.55/-9.99	-10.67/-12.60	-12.64/-15.43	-11.82/-13.34	-16.07/-14.42	-14.36/-10.90	-11.77/-14.56	-13.68/-10.24	-8.60/-13.26	-15.41/-14.48	-11.32/-15.40	-15.72/-10.57	-15.11/-11.11	-7.77/-1.40
Θ(150°)	-10.04/-9.42	-9.80/-12.22	-15.26/-11.93	-11.57/-15.74	-13.48/-12.74	-15.43/-13.75	-13.15/-14.67	-9.28/-7.23	-8.88/-13.36	-15.61/-13.46	-14.39/-14.40	-14.13/-14.52	-14.10/-14.22	-11.43/-12.92	-15.67/-14.60	-15.56/-15.51	-14.99/-14.33	-11.31/-13.14	-14.65/-15.08	-11.39/-14.74	-12.73/-13.59	-12.23/-9.42	-7.93/-10.28	
Θ(157.5°)	-10.84/-11.13	-12.57/-11.72	-12.29/-15.01	-15.99/-11.37	-9.02/-9.58	-9.94/-8.55	-8.18/-9.55	-13.22/-14.80	-13.19/-13.41	-15.19/-14.82	-11.79/-14.10	-13.32/-11.36	-13.26/-13.37	-13.22/-15.46	-15.51/-15.06	-14.69/-12.81	-12.28/-13.61	-15.18/-15.13	-15.80/-15.14	-14.89/-14.69	-14.43/-14.45	-15.00/-14.15	-11.48/-11.10	-11.43/-11.60
Θ(165°)	-10.60/-11.61	-12.46/-12.88	-13.12/-12.88	-12.35/-12.42	-13.35/-12.03	-10.63/-9.42	-9.07/-9.84	-12.33/-13.71	-13.27/-15.43	-14.86/-15.06	-15.42/-16.07	-14.57/-13.70	-14.23/-14.86	-14.39/-15.87	-16.12/-15.61	-14.23/-13.21	-13.31/-14.22	-14.87/-15.20	-15.15/-13.90	-14.09/-12.09	-12.42/-12.72	-13.60/-14.17	-15.09/-13.76	-12.78/-10.99
Θ(172.5°)	-14.04/-14.10	-12.59/-11.81	-12.33/-13.55	-13.45/-13.88	-13.87/-14.09	-15.59/-15.52	-15.41/-15.47	-15.89/-15.88	-13.65/-12.89	-13.25/-13.87	-13.51/-13.15	-13.16/-13.45	-13.41/-11.50	-10.18/-9.84	-10.27/-11.05	-12.28/-13.62	-13.48/-13.23	-13.47/-13.13	-12.78/-12.33	-13.02/-14.44	-15.35/-15.49	-15.44/-15.78	-14.96/-12.93	
Θ(180°)	-15.28/-14.37	-14.94/-15.48	-16.16/-13.63	-12.37/-12.82	-13.08/-13.41	-13.79/-13.84	-12.25/-12.85	-13.00/-13.19	-13.22/-13.58	-14.00/-14.46	-13.77/-13.96	-12.82/-12.81	-11.46/-11.51	-12.89/-12.91	-12.82/-12.81	-12.68/-12.96	-12.54/-12.05	-11.46/-11.57	-11.39/-11.29	-11.47/-10.53	-11.31/-12.34	-12.40/-11.77	-12.47/-11.59	-12.50/-14.21
Freq(Hz)	5.2GPol.	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°)	-7.71/-6.93	-6.71/-1.07	-6.93/-6.76	-6.78/-1.16	-7.29/-7.41	-7.07/-6.55	-6.59/-6.82	-7.23/-7.78	-7.97/-7.73	-7.43/-7.49	-8.34/-9.13	-7.92/-10.47	-10.74/-10.35	-9.29/-8.67	-8.76/-8.18	-7.69/-7.47	-7.41/-7.24	-7.20/-7.36	-7.61/-7.81	-8.04/-8.03	-7.46/-6.81	-6.61/-6.71	-7.51/-8.87	-9.47/-7.66
Θ(7.5°)	-7.81/-7.72	-7.42/-7.09	-6.67/-6.53	-7.13/-7.84	-7.94/-8.17	-8.07/-3.99	-6.79/-6.62	-6.93/-7.04	-6.90/-6.32	-5.98/-5.77	-5.68/-6.34	-7.90/-8.79	-9.02/-7.46	-6.40/-5.91	-5.79/-5.72	-5.69/-6.59	-5.82/-7.59	-5.87/-6.16	-6.68/-6.99	-6.83/-7.00	-7.12/-7.10	-7.71/-8.65	-10.04/-10.94	-11.18/-14.04
Θ(15°)	-1.78/-2.18	-0.59/-0.05	0.15/-0.33	0.26/-0.00	-0.30/-0.73	-1.12/-1.27	-1.12/-1.05	-1.42/-1.61	-1.31/-3.90	-4.80/-6.75	-6.30/-6.34	-6.14/-6.11	-5.52/-5.12	-1.92/-1.74	-2.13/-3.04	-2.59/-2.53	-1.92/-1.74	-2.30/-3.00	-6.09/-6.37	-5.57/-0.07	-2.98/-2.54	-2.16/-2.07	-2.36/-2.73	
Θ(22.5°)	-0.96/-0.67	-0.14/-0.13	0.35/-0.85	1.64/-1.93	2.27/-2.35	2.10/-2.09	2.20/-2.24	2.11/-1.56	0.49/-1.15	-3.15/-5.73	-7.89/-8.92	-8.30/-6.31	-4.52/-3.02	-2.01/-1.50	-1.56/-1.40	-0.64/-0.29	1.20/-1.54	1.30/-0.60	-0.33/-0.99	-1.50/-1.58	-1.00/-0.00	0.52/-0.54	0.33/-0.04	-0.35/-0.53
Θ(30°)	-1.57/-1.18	-0.09/-1.12	1.64/-1.36	0.86/-0.85	1.70/-2.32	2.77/-3.34	3.93/-3.78	2.72/-0.97	-0.93/-2.29	-3.37/-4.23	-4.72/-5.18	-6.30/-6.56	-4.29/-1.77	0.19/-1.35	1.31/-1.14	1.30/-1.54	1.92/-2.35	2.39/-1.83	1.30/-1.24	1.20/-1.07	1.05/-1.15	0.94/-0.15	-0.73/-1.37	-1.90/-1.68
Θ(37.5°)	0.07/-0.28	1.21/-2.93	4.13/-3.81	2.37/-1.62	2.04/-1.60	1.00/-2.03	3.24/-3.09	1.61/-0.39	-1.53/-1.69	-1.64/-1.55	-1.08/-1.27	-3.22/-3.35	-1.26/-0.77	2.23/-4.87	1.72/-1.40	1.70/-1.50	1.51/-2.29	2.63/-2.63	2.71/-2.66	2.07/-1.07	0.70/-0.61	0.25/-0.13	0.84/-1.53	0.98/-0.08
Θ(45°)	0.73/-1.07	1.04/-1.81	3.08/-1.39	1.83/-1.18	2.36/-2.12	-0.04/-0.26	2.27/-2.29	0.48/-0.57	-0.12/-0.06	-0.54/-0.92	-0.08/-0.52	-0.30/-1.34	-0.78/-0.08	2.04/-2.71	1.48/-1.73	2.68/-2.24	1.61/-2.32	2.66/-2.50	2.77/-2.28	2.76/-1.19	0.40/-0.65	0.22/-0.24	1.61/-1.22	1.93/-1.08
Θ(52.5°)	0.01/-1.12	0.38/-0.25	1.02/-1.70	0.33/-1.10	1.93/-1.10	0.85/-0.00	1.61/-1.95	2.23/-2.96	2.34/-1.08	0.37/-0.60	2.02/-2.03	1.08/-1.06	1.49/-1.59	2.23/-2.74	1.11/-1.99	3.21/-2.78	1.79/-2.22	1.60/-0.86	1.15/-1.89	1.56/-3.01	-1.29/-0.55	-0.88/-1.58	-2.65/-2.71	-1.29/-0.34
Θ(60°)	1.29/-0.88	0.37/-0.15	0.35/-1.86	1.56/-0.67	2.63/-3.97	1.88/-0.77	1.58/-1.83	3.66/-6.62	3.56/-1.84	1.42/-1.74	2.48/-2.25	2.37/-2.88	2.07/-2.03	1.15/-1.82	3.13/-3.43	1.70/-1.79	1.54/-0.47	0.07/-0.02	-1.75/-5.62	-4.00/-1.23	-1.98/-2.45	-1.64/-1.04	-0.05/-1.03	
Θ(67.5°)	1.94/-0.20	-0.19/-0.22	0.38/-2.20	2.10/-0.76	2.73/-3.53	1.65/-2.10	1.51/-1.84	4.05/-4.46	3.20/-2.23	1.99/-1.99	2.15/-1.01	0.15/-0.63	2.62/-2.73	1.47/-1.14	0.82/-2.04	2.59/-3.35	1.02/-1.17	1.15/-0.90	1.12/-1.16	-1.28/-3.94	-1.46/-2.24	-1.91/-2.20	-0.03/-0.80	2.08/-2.03
Θ(75°)	1.28/-1.10	-1.17/-0.43	-0.54/-1.27	1.76/-0.81	2.13/-2.81	0.55/-0.74	0.51/-0.97																	



Antenna Pattern Radio 2_5GHz

Appendix E

Θ(60°)	0.03/13	2.46/2.04	0.87/0.18	-0.31/-1.14	2.09/0.91	-0.67/1.92	1.26/0.78	1.95/0.58	-1.65/0.07	0.15/-2.02	-1.56/-0.27	1.09/1.23	0.98/1.41	2.05/2.79	1.38/-2.41	1.96/2.15	1.48/0.06	-0.99/-2.36	-1.58/-1.91	-2.14/-2.63	-4.18/-7.22	-6.76/-5.88	-4.38/-2.21	-1.89/-0.82
Θ(67.5°)	1.81/1.80	2.07/1.70	0.42/-0.31	0.23/-0.63	1.69/2.20	0.86/1.99	0.63/0.94	0.90/0.21	0.44/0.15	-0.15/-0.56	0.71/1.50	1.67/0.61	1.26/2.01	0.83/0.58	0.39/-0.85	2.15/1.20	1.44/1.24	1.05/-0.17	-0.69/-3.58	-3.05/-8.35	-4.38/-3.04	-1.71/-2.29	-5.45/-4.39	-1.45/0.55
Θ(75°)	1.76/0.77	0.93/0.70	-0.10/-0.95	-0.32/-0.36	0.39/1.20	-0.12/0.64	0.67/0.91	-1.45/-0.79	0.73/-1.33	-0.24/-0.07	-0.06/0.02	0.72/0.76	-0.88/1.45	1.54/-0.63	-0.39/-0.82	1.28/0.71	0.75/0.94	2.17/0.81	0.06/-2.10	-1.63/-2.99	-1.48/0.63	0.92/-0.91	-3.24/-2.29	-0.88/1.73
Θ(82.5°)	0.23/-0.88	-1.31/-1.41	-2.01/-2.68	-2.17/-1.51	-0.79/-0.58	-1.20/0.12	0.04/-2.22	-3.72/-2.71	-0.56/-2.82	-0.95/-0.73	-2.03/-2.66	-1.81/-3.21	-1.75/-1.35	-0.90/-3.56	-1.85/-1.09	-0.25/-1.56	-1.61/0.80	1.77/1.38	0.57/-1.08	-1.56/-2.23	0.48/2.09	1.14/-2.05	-4.80/-2.02	-1.04/-1.46
Θ(90°)	-1.68/-3.20	-3.18/-3.40	-4.17/-4.94	-4.69/-3.60	-3.08/-2.96	-2.71/-1.38	-1.85/-2.42	-4.16/-4.65	-2.41/-6.29	-3.39/-1.73	-2.17/-4.69	-3.50/-3.25	-8.04/-1.94	-0.56/-3.17	-2.59/-1.84	-1.72/-2.54	-3.84/-2.65	-0.69/0.24	-1.54/-1.58	-3.54/-4.09	-0.59/-0.14	-0.99/-4.25	-5.56/-3.28	-3.38/0.03
Θ(97.5°)	-4.32/-5.74	-4.79/-4.53	-6.24/-7.33	-7.31/-6.42	-4.33/-5.35	-4.23/-5.29	-5.42/-6.19	-4.35/-8.47	-6.11/-4.29	-6.15/-7.15	-3.99/-8.73	-7.04/-3.91	-4.58/-5.35	-5.97/-3.69	-4.29/-6.90	-7.07/-3.58	-4.99/-2.77	-6.83/-4.29	-5.79/-5.76	-3.28/-2.94	-3.92/-3.54	-7.30/-5.54	-6.63/-1.69	
Θ(105°)	-5.54/-6.21	-7.84/-6.63	-8.56/-7.60	-7.73/-8.12	-7.16/-7.92	-7.53/-7.77	-6.17/-8.80	-7.54/-7.90	-6.46/-11.19	-8.38/-6.79	-6.91/-7.62	-6.41/-6.21	-10.31/-5.02	-4.58/-6.21	-8.47/-7.57	-4.90/-5.26	-11.48/-8.20	-10.20/-5.55	-12.50/-6.30	-8.67/-8.29	-6.37/-5.75	-6.66/-11.57	-9.44/-6.42	-8.27/-4.15
Θ(112.5°)	-9.35/-10.31	-9.65/-9.68	-9.37/-10.31	-9.53/-12.32	-9.06/-9.85	-7.91/-8.89	-8.17/-10.67	-9.08/-7.71	-7.21/-7.42	-7.07/-8.76	-10.94/-10.88	-12.17/-11.56	-7.01/-6.91	-7.74/-7.17	-9.14/-7.96	-8.95/-7.99	-9.46/-7.64	-9.82/-5.57	-11.20/-7.28	-9.47/-9.95	-9.58/-6.80	-7.14/-10.49	-10.83/-9.03	-9.19/-6.70
Θ(120°)	-12.51/-11.11	-10.98/-10.01	-9.82/-12.27	-10.30/-13.33	-10.15/-10.29	-11.47/-9.67	-10.51/-11.47	-10.35/-9.65	-9.75/-8.45	-8.77/-9.90	-11.74/-8.30	-9.07/-13.71	-9.52/-9.03	-11.29/-9.91	-10.06/-10.10	-9.33/-8.04	-15.26/-9.07	-10.43/-7.95	-9.27/-9.10	-13.91/-9.13	-9.51/-7.81	-10.22/-11.82	-12.75/-12.19	-12.18/-7.54
Θ(127.5°)	-11.62/-13.06	-11.76/-10.02	-8.96/-12.12	-12.60/-13.92	-11.30/-9.62	-16.11/-14.39	-13.54/-13.35	-11.51/-9.36	-11.89/-13.15	-10.42/-11.83	-15.30/-12.19	-11.93/-12.75	-8.71/-8.99	-8.50/-9.37	-9.16/-15.93	-8.28/-8.30	-13.09/-13.36	-11.90/-13.77	-13.75/-15.60	-15.14/-13.61	-12.22/-13.16	-10.31/-12.09	-12.08/-12.54	-13.07/-9.88
Θ(135°)	-15.36/-12.89	-9.21/-10.65	-14.11/-15.04	-11.89/-10.70	-15.88/-15.12	-14.14/-14.68	-11.83/-8.90	-10.14/-11.68	-11.39/-14.85	-15.24/-15.75	-11.02/-9.81	-10.87/-10.64	-14.36/-10.92	-11.64/-10.24	-15.00/-9.84	-9.58/-14.05	-14.71/-13.71	-11.86/-10.26	-12.99/-13.62	-15.61/-15.58	-13.70/-13.09	-9.66/-9.78	-14.99/-12.71	-10.66/-13.03
Θ(142.5°)	-14.31/-12.37	-9.24/-8.83	-10.55/-14.39	-15.28/-13.35	-12.74/-13.85	-12.54/-12.49	-15.49/-9.90	-9.06/-12.34	-15.36/-10.61	-9.28/-13.33	-14.71/-10.94	-11.69/-14.19	-15.23/-12.67	-9.77/-11.39	-14.32/-14.80	-15.65/-15.04	-10.21/-9.78	-13.44/-9.53	-10.72/-13.72	-14.69/-14.11	-15.99/-13.01	-13.65/-12.48	-15.63/-13.74	
Θ(150°)	-11.24/-12.10	-11.94/-12.17	-13.48/-11.87	-12.78/-10.52	-10.42/-12.55	-14.21/-9.96	-11.34/-15.65	-10.19/-7.40	-8.99/-13.11	-11.85/-10.65	-12.80/-14.53	-11.51/-10.41	-9.10/-10.99	-14.46/-15.65	-13.63/-11.47	-11.69/-14.77	-15.42/-14.48	-11.17/-11.79	-13.44/-13.55	-12.81/-15.05	-14.97/-10.26	-12.63/-13.18	-12.57/-13.89	-14.01/-15.48
Θ(157.5°)	-14.03/-13.42	-13.60/-15.21	-14.97/-15.63	-13.47/-12.18	-11.33/-11.80	-14.00/-10.30	-9.13/-10.63	-13.60/-14.24	-15.37/-14.81	-15.35/-15.02	-14.74/-15.60	-15.42/-15.11	-13.35/-14.37	-15.08/-15.33	-13.94/-15.33	-15.33/-14.34	-11.52/-14.50	-14.91/-12.49	-13.64/-14.68	-14.19/-15.11	-15.81/-15.78	-15.39/-15.32		
Θ(165°)	-13.98/-15.46	-14.31/-12.04	-11.10/-10.82	-11.33/-12.14	-13.06/-13.13	-14.67/-14.90	-15.58/-15.59	-16.19/-15.71	-14.92/-14.29	-12.77/-12.06	-12.43/-14.40	-14.78/-15.27	-15.40/-15.08	-12.71/-15.39	-12.99/-12.11	-13.26/-14.72	-15.73/-15.20	-15.10/-15.27	-13.97/-12.38	-11.21/-11.44	-12.03/-12.48	-12.24/-13.90	-14.01/-11.27	-9.73/-10.36
Θ(172.5°)	-12.74/-13.30	-12.98/-12.01	-11.58/-10.80	-10.43/-10.17	-11.51/-12.01	-12.52/-12.10	-13.13/-14.76	-15.32/-15.79	-16.02/-15.18	-16.03/-14.70	-15.17/-14.65	-14.92/-14.64	-13.83/-13.21	-13.58/-14.97	-14.86/-15.71	-16.00/-15.49	-13.17/-11.67	-10.84/-11.12	-11.50/-11.50	-11.47/-11.23	-12.75/-14.89	-13.85/-11.93	-12.45/-12.62	-9.98/-9.09
Θ(180°)	-15.86/-15.74	-14.93/-14.26	-15.44/-15.26	-14.68/-15.46	-15.13/-15.44	-14.89/-15.05	-15.40/-14.97	-15.37/-15.01	-15.66/-14.88	-15.37/-15.14	-15.47/-15.37	-15.74/-15.09	-14.44/-14.45	-15.03/-14.95	-14.48/-15.10	-15.67/-15.69	-14.95/-14.13	-14.46/-15.29	-15.69/-15.77	-15.25/-14.79	-15.18/-15.24	-14.61/-13.19	-13.14/-13.69	-13.98/-14.52
Freq(Hz)	5.885GPol.	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°)	-1.61/-1.44	-1.65/-1.93	-2.07/-2.12	-1.96/-1.81	-1.80/-1.54	-1.44/-1.54	-1.68/-1.78	-1.94/-1.23	-2.03/-1.68	-1.39/-1.25	-1.28/-1.41	-1.54/-1.67	-1.65/-1.50	-1.38/-1.37	-1.59/-1.73	-1.55/-1.55	-1.47/-1.50	-1.67/-1.64	-1.71/-1.39	-1.12/-0.90	-0.89/-1.48	-2.09/-2.02	-1.65/-1.85	-2.19/-1.97
Θ(7.5°)	-1.69/-1.97	-2.24/-2.27	-2.17/-1.93	-1.84/-1.65	-1.45/-0.96	-0.55/-0.42	-0.45/-0.74	-1.14/-1.61	-1.81/-1.63	-1.44/-1.23	-1.27/-2.95	-3.60/-3.65	-3.85/-4.15	-9.77/-11.39	-14.32/-14.80	-15.67/-2.20	-1.64/-1.11	-0.60/-0.24	-0.06/-0.28	-0.27/-1.04	-0.97/-1.15	-1.52/-1.74		
Θ(15°)	0.37/1.11	1.43/1.22	0.57/-0.50	-1.96/-3.40	-3.51/-2.29	-1.11/-0.15	0.03/-0.38	-1.08/-1.66	-2.01/-2.07	-1.84/-1.30	-0.75/-0.48	-0.56/-1.18	-1.87/-2.00	-1.40/-1.00	-0.94/-1.02	-1.74/-3.16	-4.18/-3.74	-1.85/-0.22	0.92/1.41	1.49/1.18	0.66/-0.08	-0.76/-1.15	-1.27/-1.17	-0.94/-0.45
Θ(22.5°)	0.44/1.05	1.78/2.75	3.30/3.18	2.47/0.81	-1.10/-1.36	0.65/2.13	2.32/1.17	-0.45/-1.04	-0.25/0.38	1.01/1.67	2.04/2.01	1.69/0.84	0.23/0.23	0.64/1.10	1.21/1.28	1.27/0.60	-0.07/0.48	1.70/2.33	2.08/0.97	-0.83/-2.91	-4.02/-3.54	-2.40/-1.26	-0.76/-1.07	-1.21/-0.45
Θ(30°)	1.08/0.29	-0.96/1.85	-1.07/1.31	3.25/3.48	1.95/0.85	2.59/3.88	3.24/1.81	1.26/1.77	2.14/2.14	2.26/3.13	3.65/3.57	2.71/1.41	0.99/1.42	1.72/1.80	3.47/3.03	1.59/1.56	2.67/2.71	1.50/-0.29	-1.41/-1.23	-0.34/0.20	0.25/0.19	0.30/1.42	2.09/1.85	
Θ(37.5°)	-1.86/-1.67	-0.05/0.98	0.52/0.52	3.22/4.30	2.88/2.29	3.70/4.57	2.42/1.07	2.28/1.83	-0.09/-0.48	0.11/1.59	3.01/2.68	1.27/1.24	2.41/3.49	3.97/3.17	1.49/0.93	2.43/2.64	1.40/1.31	2.18/2.03	1.09/1.03	1.86/1.67	0.05/-1.44	-2.28/-3.18	-2.68/-1.64	-0.45/-0.11
Θ(45°)	-2.30/-2.10	0.53/2.62	3.19/1.90	2.01/2.96	1.41/-2.25	2.26/3.49	0.46/0.52	1.88/0.31	-4.95/-2.22	-1.41/-1.81	-0.84/-0.07	-0.60/-0.11	1.09/2.83	3.80/4.02	2.36/-2.01	1.20/3.24	1.98/0.74	1.84/0.97	1.51/3.44	3.41/1.70	-0.85/-1.61	-0.64/0.20	1.32/1.82	0.68/-1.36
Θ(52.5°)	-2.11/-0.93	0.37/0.40	1.51/0.66	-1.35/0.28	0.87/-3.94	0.79/1.98	-1.44/0.12	0.75/-3.34	-3.59/0.61	-0.75/-3.57	-2.96/-0.99	-0.50/-0.00	1.03/2.08	2.76/3.69	1.97/-3.49	1.14/2.93	1.29/-0.04	-0.33/-1.19	-0.66/1.75	1.60/-0.28	-1.17/-0.13	-0.14/-0.24	1.08/1.88	0.67/-1.76
Θ(60°)	-0.29/0.96	1.32/0.40	-0.98/-0.28	-2.29/-1.67	1.85/0.07	1.15/1.98	-1.51/0.33	-0.39/-2.93	-0.41/-1.72	0.19/-1.85	-0.26/-1.39	1.49/0.88	0.26/0.68	1.62/2.44	2.31/-2.19	-1.16/1.51	1.16/-0.74	-0.77/-2.07	-1.33/-1.07	-1.43/-2.67	-3.53/-4.02	-6.47/-6.87	-3.14/-0.88	-1.07/-1.09
Θ(67.5°)	1.43/0.84	1.03/0.11	-0.69/-1.02	-0.06/-1.13	2.07/1.73	1.21/0.57	-0.26/0.09	-2.46/-0.60	0.81/0.77	0.62/0.22	1.05/2.13	0.87/0.52	0.16/1.15	0.92/0.35	0.47/-1.52	-0.41/0.44	0.79/-0.24	0.56/-0.64	-0.10/-1.51	-1.50/-1.92	-4.23/-5.85	-6.96/-4.77	-4.31/-2.63	0.43/1.85
Θ(75°)	1.40/0.29	0.17/-1.06	-1.22/0.38	0.13/-1.58	1.23/1.54	0.70/-0.30	-0.56/-0.06	-3.37/-1.19	-0.47/-1.22	0.40/0.19	0.42/-0.36	0.10/0.23	1.36/0.13	-1.21/-0.72	-1.17/-0.47	0.38/-0.84	1.47/0.01	0.83/0.10	-0.39/-0.57	-1.58/-1.40	-1.78/-2.16	-3.11/-2.06	1.00/2.77	
Θ(82.5°)	0.10/-1.22	-1.39/-2.74	-2.92/-1.04	-1.19/-2.48	0.22/0.07	-0.26/-1.56	-2.13/-1.17	-2.95/-1.64	-2.49/-2.94	-0.36/-0.75	-1.92/-1.31	-1.35/-1.89	-2.45/-0.19	-0.17/-3.26	-2.92/-2.28	-3.07/-2.85	-1.02/-1.69	1.06/-0.06	1.14/-0.41	-1.10/-1.47	-1.10/-0.38	-1.29/-2.47	-4.38/-2.05	0.13/0.21
Θ(90°)	-1.82/-3.82	-3.17/-4.02	-4.83/-3.33	-3.67/-4.92	-1.26/-1.46	-1.97/-4.05	-5.00/-2.89	-3.02/-2.44	-3.86/-4.43	-2.18/-1.69	-2.94/-3.66	-3.00/-2.81	-3.21/-2.90	-1.20/-2.39	-4.58/-1.24	-4.02/-0.46	-2.14/-4.62	-1.19/-2.27	-0.49/-0.99	-1.39/-2.35	-1.46/-1.20	-2.62/-4.27	-6.99/-3.89	-2.35/0.03
Θ(97.5°)	-3.24/-5.63	-5.38/-5.95	-7.12/-4.57	-5.89/-6.25	-2.99/-3.87	-4.87/-7.33	-7.08/-5.06	-5.00/-4.80	-6.12/-7.08	-4.95/-4.84	-4.31/-6.04	-9.51/-3.77	-3.80/-8.17	-6.71/-3.99	-6.51/-4.48	-5.75/-6.96	-4.46/-5.33	-3.15/-4.70	-3.12/-2.72	-5.31/-8.14	-1.99/-5.17	-4.86/-2.08		
Θ(105°)	-8.61/-9.76	-8.27/-7.39	-8.15/-7.01	-8.64/-9.05	-5.78/-5.18	-7.20/-7.61	-7.82/-6.93	-6.82/-7.70	-6.66/-7.68	-6.14/-6.28	-7.41/-9.16	-8.19/-8.63	-5.12/-8.40	-8.46/-6.01	-6.00/-7.83	-7.17/-9.03	-7.90/-9.85	-10.16/-9.39	-7.33/-10.77	-7.59/-6.62	-6.23/-9.07	-10.32/-8.96	-7.93/-3.30	
Θ(112.5°)	-8.99/-12.68	-10.07/-9.88	-11.01/-9.89	-9.56/-10.66	-8.94/-7.30	-9.31/-10.32	-10.93/-10.99	-10.72/-9.74	-8.62/-9.53	-8.01														



Antenna Pattern Radio 2_5GHz

Appendix E

Θ (112.5°)	-6.63/7.94	-12.76/12.47	-8.61/5.96	-7.09/-9.61	-13.98/-15.62	-15.40/-8.67	-6.37/-5.56	-9.16/-10.39	-7.15/-6.80	-7.85/-6.54	-5.63/-6.53	-6.24/-5.36	-4.83/-7.21	-10.22/-7.51	-6.60/-9.04	-7.11/-4.96	-3.70/-8.58	-9.53/-7.13	-6.58/-4.08	-2.56/-4.93	-9.90/-15.51	-6.77/-5.03	-5.82/-6.79	-7.44/-6.49	
Θ (120°)	-7.90/-9.82	-14.94/-12.48	-10.39/-7.09	-7.87/-9.51	-12.64/-14.47	-15.28/-12.14	-8.70/-7.74	-10.61/-13.64	-10.58/-8.50	-8.08/-8.56	-5.59/-4.69	-6.04/-6.89	-7.36/-7.49	-10.55/-7.80	-7.95/-10.99	-11.11/-3.64	-7.49/-6.72	-8.81/-10.03	-3.59/-3.15	-3.28/-0.85	-10.21/-15.18	-9.17/-6.59	-7.45/-8.57	-10.50/-8.36	
Θ (127.5°)	-7.73/-9.05	-11.76/-12.80	-11.89/-10.65	-9.91/-12.96	-13.31/-13.86	-15.51/-15.08	-13.22/-11.25	-9.18/-14.19	-14.68/-13.29	-11.85/-12.49	-8.25/-7.33	-6.42/-7.01	-11.29/-9.43	-10.17/-8.09	-13.01/-14.91	-11.11/-9.43	-10.57/-7.83	-11.50/-9.27	-5.53/-8.22	-9.82/-12.88	-12.86/-15.37	-7.67/-6.67	-10.61/-10.54	-11.82/-9.72	
Θ (135°)	-12.09/-8.30	-9.66/-10.51	-11.89/-10.43	-9.13/-8.50	-10.17/-12.65	-15.36/-15.29	-12.90/-11.13	-14.06/-11.02	-12.13/-12.02	-13.52/-9.09	-8.94/-8.10	-8.73/-8.31	-12.85/-11.23	-11.12/-13.25	-13.95/-12.84	-9.26/-9.41	-10.43/-8.72	-11.19/-9.82	-11.00/-14.27	-9.57/-7.62	-10.18/-13.09	-9.53/-9.96	-10.22/-10.63	-9.39/-7.20	
Θ (142.5°)	-10.79/-13.40	-10.40/-13.55	-15.36/-14.82	-12.81/-10.63	-8.33/-7.10	-7.89/-11.13	-15.37/-13.87	-14.88/-10.67	-11.28/-14.53	-14.22/-14.42	-10.09/-8.85	-10.55/-14.78	-13.61/-13.73	-8.61/-9.59	-13.86/-10.98	-11.63/-12.94	-9.86/-10.59	-11.86/-10.44	-10.94/-10.08	-9.67/-8.56	-14.84/-14.82	-11.81/-11.32	-12.60/-11.93	-12.01/-9.55	
Θ (150°)	-9.83/-11.77	-13.61/-14.42	-12.94/-14.80	-13.58/-12.21	-14.74/-13.41	-14.74/-13.41	-9.33/-7.77	-9.92/-13.00	-13.59/-13.85	-15.22/-15.16	-15.05/-15.20	-10.34/-7.23	-7.68/-10.80	-12.43/-15.27	-12.43/-15.27	-14.56/-14.16	-14.96/-15.65	-15.63/-14.63	-12.88/-13.58	-15.54/-15.36	-15.56/-15.41	-12.85/-15.00	-15.27/-15.90	-12.57/-10.28	-12.19/-13.59
Θ (157.5°)	-13.31/-11.35	-10.39/-9.74	-11.26/-12.02	-10.55/-10.37	-10.90/-10.99	-10.12/-11.07	-12.98/-15.02	-13.17/-12.10	-14.14/-14.64	-15.13/-14.59	-11.66/-10.16	-9.48/-10.03	-12.34/-13.76	-13.12/-12.37	-12.08/-13.46	-14.63/-15.18	-15.96/-13.26	-12.98/-14.11	-12.97/-11.76	-10.78/-11.34	-14.84/-15.40	-14.74/-15.07	-13.16/-14.15	-15.80/-14.74	
Θ (165°)	-15.30/-14.98	-15.07/-15.52	-15.30/-15.64	-15.34/-15.65	-14.76/-15.39	-13.68/-11.80	-11.67/-12.03	-12.48/-13.09	-14.05/-14.82	-15.02/-15.91	-15.71/-13.66	-11.29/-11.30	-13.41/-12.70	-10.91/-9.70	-10.60/-12.73	-13.50/-13.49	-15.71/-15.27	-15.01/-15.55	-13.62/-12.03	-13.10/-13.74	-12.43/-13.16	-12.92/-12.03	-10.45/-9.47	-9.89/-11.01	
Θ (172.5°)	-8.83/-9.09	-11.14/-13.30	-12.71/-12.53	-12.07/-11.17	-10.27/-9.85	-9.72/-10.05	-11.45/-13.78	-15.78/-15.78	-15.24/-15.27	-14.73/-13.69	-13.86/-13.10	-13.29/-11.96	-12.06/-12.77	-14.03/-15.27	-15.71/-15.41	-15.55/-14.53	-13.97/-13.81	-13.68/-13.73	-13.55/-12.85	-12.26/-10.42	-9.38/-8.68	-8.49/-8.67	-8.76/-8.46	-8.25/-8.57	
Θ (180°)	-11.13/-11.49	-10.82/-10.91	-11.93/-11.63	-10.45/-10.65	-11.15/-11.65	-11.43/-11.12	-10.82/-9.82	-10.00/-10.48	-10.94/-10.91	-10.62/-10.14	-9.36/-8.98	-8.81/-8.71	-8.52/-8.14	-7.73/-7.97	-8.36/-9.29	-9.61/-9.63	-9.30/-8.94	-8.97/-9.03	-9.05/-9.21	-9.50/-9.49	-9.68/-9.55	-9.20/-9.41	-10.32/-11.02	-11.71/-11.38	
Freq(Hz)	5.785GPol.	TotalAnt.	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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°)	-0.83/-1.20	-1.00/-0.81	-0.93/-1.16	-1.26/-1.04	-1.32/-1.81	-2.22/-2.35	-2.29/-2.34	-2.43/-2.40	-2.66/-2.80	-2.73/-2.63	-2.60/-2.57	-2.50/-2.43	-2.39/-2.35	-2.20/-1.52	-1.05/-0.50	-0.44/-0.47	-0.50/-0.53	-0.53/-0.44	-0.33/-0.37	-0.25/-0.28	-0.26/-0.29	-0.13/-0.04	0.11/0.07	0.03/-0.23	
Θ (7.5°)	-0.56/-0.40	-0.57/-0.60	-0.37/-1.04	0.16/0.20	0.45/0.70	1.06/1.40	1.48/1.65	1.60/1.57	1.35/1.24	1.14/0.96	0.74/0.32	-0.11/-0.71	-1.14/-1.66	-2.15/-2.70	-3.02/-3.16	-3.58/-4.17	-4.82/-5.44	-6.11/-6.05	-5.68/-5.07	-4.60/-3.87	-3.10/-2.64	-2.22/-1.71	-1.21/-0.81	-0.89/-0.94	
Θ (15°)	0.09/0.45	1.01/1.46	1.62/1.60	1.55/1.51	1.60/1.68	1.67/1.75	1.75/1.52	1.13/0.49	0.01/-0.48	-1.18/-2.11	-3.02/-3.53	-4.01/-5.07	-6.22/-7.62	-8.74/-8.96	-8.04/-7.40	-8.33/-9.46	-10.07/-11.19	-8.34/-5.90	-4.38/-4.37	-2.57/-1.89	-1.35/-0.95	-0.36/0.09	-	-	
Θ (22.5°)	-0.56/-0.59	-0.42/-0.19	0.13/0.48	0.73/1.17	1.50/1.89	2.13/2.13	1.85/1.76	1.98/2.13	2.18/1.89	1.34/0.51	-0.55/-1.44	-2.60/-2.74	-2.36/-2.32	-2.88/-3.50	-3.65/-3.38	-2.86/-2.64	-3.29/-4.45	-6.05/-7.41	-7.10/-6.21	-5.05/-4.08	-3.65/-3.32	-2.67/-1.71	-0.78/-0.33	-0.16/-0.46	
Θ (30°)	-2.11/-1.90	-1.26/-0.50	0.34/0.75	1.14/1.64	1.46/0.80	0.17/-0.11	-0.24/0.20	1.52/2.96	4.03/4.10	3.42/2.32	0.88/0.04	-0.54/-0.54	-0.34/-0.77	-1.89/-2.90	-3.45/-3.51	-2.53/-1.34	-1.47/-2.75	-0.37/-3.31	-1.93/-1.08	-0.64/-0.61	-0.32/0.12	-0.19/-0.76	-0.93/-0.86	-1.06/-1.92	
Θ (37.5°)	-0.20/0.11	-0.43/0.91	1.23/1.09	1.32/1.87	1.74/0.97	-0.72/-2.78	-0.23/-1.13	1.61/3.35	4.31/3.54	2.46/0.86	-0.29/0.16	0.25/0.41	-0.75/-1.97	-2.02/-1.36	-1.43/-2.99	-2.81/1.49	-1.51/-1.07	0.15/1.14	1.33/1.00	0.40/0.44	1.20/2.01	1.98/1.07	0.21/-0.58	-0.59/-0.90	
Θ (45°)	2.20/2.38	2.07/1.48	1.09/0.57	0.87/2.06	2.53/1.47	-1.07/-3.35	-3.86/-2.27	0.39/2.00	2.36/2.03	1.06/0.33	1.04/2.31	3.08/2.79	1.81/0.50	0.17/1.94	2.93/1.48	-0.01/-0.47	-1.37/-0.40	1.67/2.88	2.74/2.44	1.94/1.42	1.38/1.75	1.57/0.73	0.19/-0.53	0.63/1.59	
Θ (52.5°)	3.46/3.42	2.16/0.84	-0.31/-1.25	0.12/1.96	2.26/0.71	-2.85/-5.01	-3.20/-1.37	0.12/1.18	1.44/1.19	0.29/0.04	1.22/2.35	2.59/2.15	1.17/0.61	1.99/3.83	4.29/2.76	1.51/0.73	-2.19/-3.01	0.86/2.59	2.31/1.90	1.17/0.92	0.92/1.08	1.22/0.55	-0.62/-0.23	1.58/2.81	
Θ (60°)	2.95/2.67	1.60/-0.12	-0.73/-0.54	0.60/1.89	2.14/0.54	-3.23/-5.44	-3.29/-1.49	-0.17/1.28	1.72/2.03	1.26/0.18	0.60/0.05	-0.01/0.34	0.66/0.58	0.77/2.53	2.90/1.71	-1.93/-2.74	-6.78/-5.05	-2.75/-2.44	-1.86/-1.29	-0.65/0.92	1.92/0.98	2.53/1.86	-0.50/0.58	1.90/2.84	
Θ (67.5°)	2.84/2.66	1.42/-0.51	-1.14/-0.78	0.74/1.84	2.25/-0.08	-3.75/-4.57	-2.80/-1.39	-0.74/0.19	-0.22/0.62	1.24/1.84	2.01/0.10	0.12/2.94	2.28/1.93	0.80/1.84	2.69/0.02	-0.08/-0.39	-5.85/-1.99	-1.15/-2.49	-4.21/-0.39	1.62/2.66	2.70/3.73	3.52/2.86	0.32/1.77	2.47/2.40	
Θ (75°)	1.53/1.79	0.81/-0.26	-2.07/-1.53	0.18/0.83	0.64/-2.34	-4.44/-3.48	-2.09/-0.89	-1.41/-1.94	-1.92/-0.90	1.28/2.32	2.32/0.38	-0.12/3.14	3.89/2.75	1.27/0.04	0.98/0.01	-2.54/-4.91	-1.71/0.69	1.48/0.35	-1.21/-1.40	3.09/3.30	2.84/2.78	2.51/2.37	-0.36/1.33	2.00/1.86	
Θ (82.5°)	0.03/0.36	-0.48/-1.250	-3.23/-2.90	-1.63/-0.85	-1.31/-4.49	-5.24/-0.41	-3.36/-2.09	-2.61/-3.30	-3.80/-2.05	0.46/1.38	0.85/-1.23	0.65/3.52	2.25/1.15	-1.80/-2.03	-1.25/-0.45	-1.02/-2.24	-0.10/1.23	1.78/0.59	1.07/2.97	3.38/2.95	1.99/0.61	0.89/1.07	-1.76/-0.28	0.96/0.44	
Θ (90°)	-1.01/-0.92	-2.26/-4.49	-5.46/-4.67	-2.99/-2.18	-3.23/-7.15	-7.41/-4.98	-5.12/-4.31	-4.37/-4.77	-5.79/-3.69	-0.73/0.11	-0.68/-2.19	-1.97/0.86	2.41/-0.99	-1.58/-4.03	-4.46/-3.15	-2.26/-2.38	0.68/0.59	1.14/0.86	0.63/1.41	0.97/0.02	-0.76/-2.00	-1.31/-1.55	-3.30/-2.78	-0.76/-1.30	
Θ (97.5°)	-2.97/-3.03	-4.40/-6.69	-8.11/-6.90	-4.55/-4.89	-6.21/-10.58	-8.32/-6.16	-6.83/-1.71	-6.80/-8.63	-9.11/-5.67	-2.61/-1.74	-3.15/-6.10	-4.03/-1.01	-1.62/-5.62	-7.00/-0.89	-7.57/-3.69	-4.49/-3.76	-1.43/-2.90	-2.00/-1.96	-1.68/-2.46	-2.18/-2.56	-3.07/-5.28	-3.71/-4.73	-5.43/-4.25	-2.83/-3.07	
Θ (105°)	-4.05/-4.58	-6.84/-9.53	-10.85/-8.12	-5.29/-7.15	-8.40/-13.73	-10.43/-9.98	-7.93/-9.03	-9.14/-9.39	-8.36/-8.82	-5.82/-4.10	-5.31/-8.12	-7.82/-6.18	-4.52/-6.73	-11.24/-10.28	-10.15/-10.73	-9.45/-7.73	-5.68/-7.21	-6.20/-4.59	-7.10/-7.92	-5.51/-5.02	-6.03/-9.52	-8.30/-9.58	-10.02/-8.25	-7.14/-6.73	
Θ (112.5°)	-6.14/-5.91	-8.01/-10.27	-13.74/-9.22	-7.45/-10.08	-10.87/-12.58	-12.75/-12.29	-10.34/-11.49	-9.53/-10.01	-10.64/-8.90	-7.08/-5.02	-5.94/-9.66	-9.92/-6.18	-4.52/-6.73	-11.24/-10.28	-10.15/-10.73	-9.45/-7.73	-5.68/-7.21	-6.20/-4.59	-7.10/-7.92	-5.51/-5.02	-6.03/-9.52	-8.30/-9.58	-10.02/-8.25	-7.14/-6.73	
Θ (120°)	-8.70/-8.55	-8.93/-13.84	-14.28/-11.03	-11.14/-12.78	-14.06/-12.49	-10.68/-10.77	-11.24/-11.56	-11.96/-13.29	-12.66/-10.11	-9.44/-6.11	-6.06/-7.39	-8.20/-5.66	-8.34/-7.48	-10.85/-13.70	-8.45/-15.42	-6.51/-9.34	-8.58/-7.46	-8.01/-7.08	-4.73/-4.76	-10.24/-11.39	-9.10/-9.39	-11.34/-8.83	-8.79/-7.29		
Θ (127.5°)	-8.75/-8.06	-11.02/-13.84	-13.53/-11.90	-11.58/-14.36	-15.96/-15.22	-14.31/-9.37	-9.22/-11.99	-15.63/-15.49	-15.20/-12.48	-10.71/-10.02	-8.90/-10.69	-11.07/-9.94	-10.44/-8.79	-9.92/-9.02	-15.09/-15.04	-11.37/-7.21	-15.82/-10.87	-15.51/-15.76	-8.82/-8.61	-5.83/-9.51	-15.07/-12.46	-11.71/-10.69	-12.15/-11.85	-10.49/-8.62	
Θ (135°)	-11.60/-9.10	-12.79/-11.77	-12.58/-11.97	-12.56/-14.54	-15.78/-15.61	-14.55/-11.87	-10.15/-10.23	-11.42/-15.45	-14.49/-12.39	-10.93/-11.55	-13.48/-10.10	-10.38/-12.19	-14.75/-13.74	-13.19/-15.29	-15.44/-13.57	-9.50/-10.58	-10.99/-10.51	-12.31/-12.22	-9.14/-9.83	-6.73/-9.67	-14.35/-11.66	-15.17/-12.55	-13.14/-12.61	-13.91/-9.51	
Θ (142.5°)	-10.04/-11.79	-12.63/-15.53	-15.26/-15.32	-13.84/-13.18	-12.95/-11.08	-11.04/-14.63	-15.47/-13.35	-11.37/-12.46	-15.38/-15.77	-15.67/-13.74	-15.67/-10.98	-8.73/-10.73	-13.27/-12.62	-9.99/-9.83	-12.91/-11.96	-11.21/-13.05	-12.02/-11.25	-11.94/-10.41	-10.16/-12.64	-12.28/-12.26	-14.79/-16.25	-13.26/-13.77	-15.43/-13.96	-13.82/-12.57	
Θ (150°)	-9.65/-11.53	-13.24/-14.18	-13.26/-14.18	-14.30/-14.92	-14.73/-13.18	-11.80/-10.71	-10.33/-11.90	-15.07/-15.16	-15.80/-15.70	-15.71/-15.10	-12.37/-10.76	-10.69/-12.58	-14.24/-14.57	-15.02/-12.12	-12.92/-15.09	-15.85/-15.05	-15.66/-15.31	-15.61/-14.70	-14.91/-12.51	-12.68/-14.93	-14.86/-15.20	-15.56/-15.22	-14.82/-12.81	-13.48/-14.51	
Θ (157.5°)	-11.98/-9.58	-8.82/-8.91	-9.40/-11.07	-13.44/-15.32	-15.12/-15.27	-13.77/-12.34	-11.70/-12.93	-15.43/-15.50	-14.97/-15.43	-15.75/-15.32	-11.86/-11.71	-12.09/-10.55	-14.72/-14.19	-1											

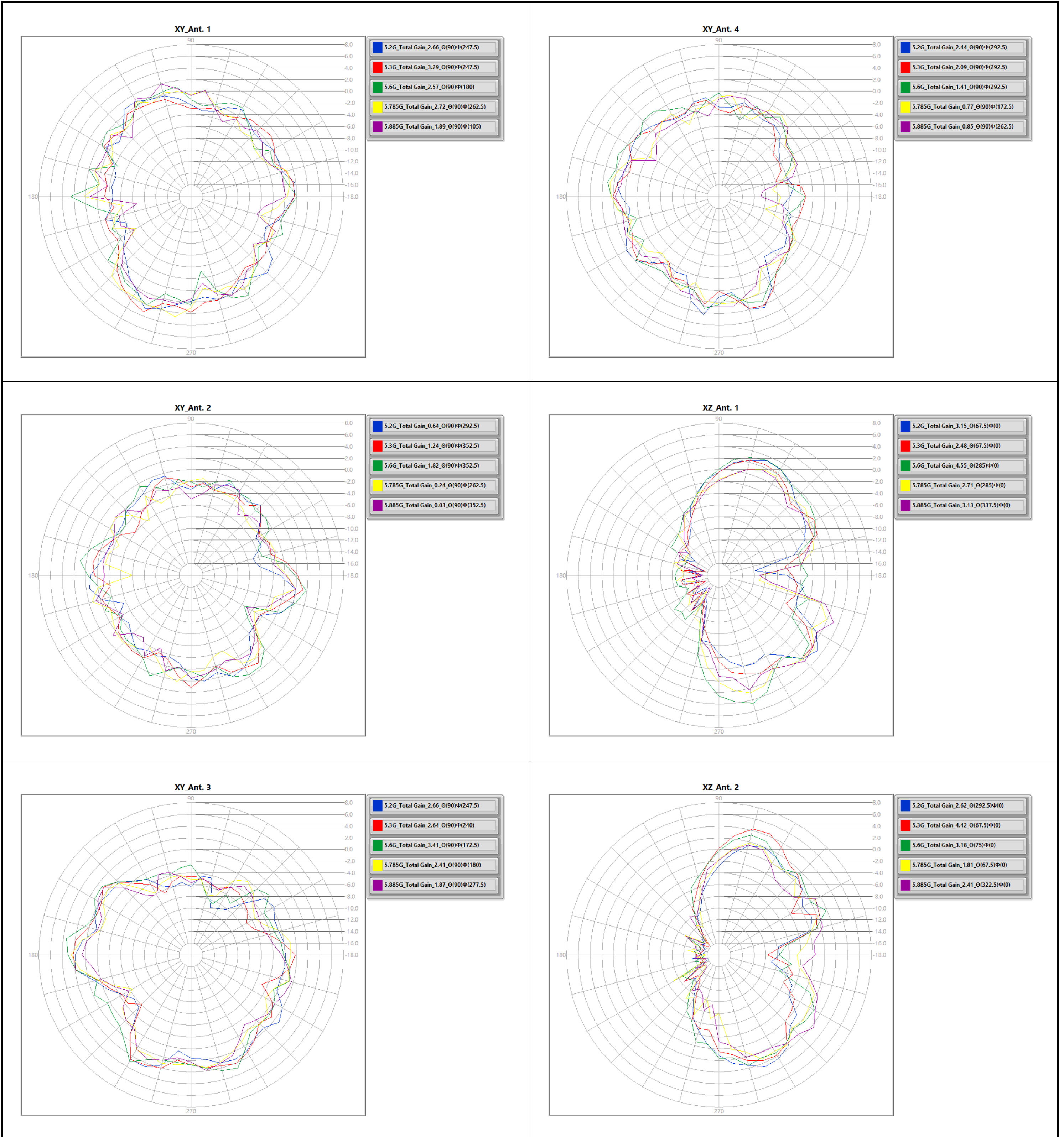


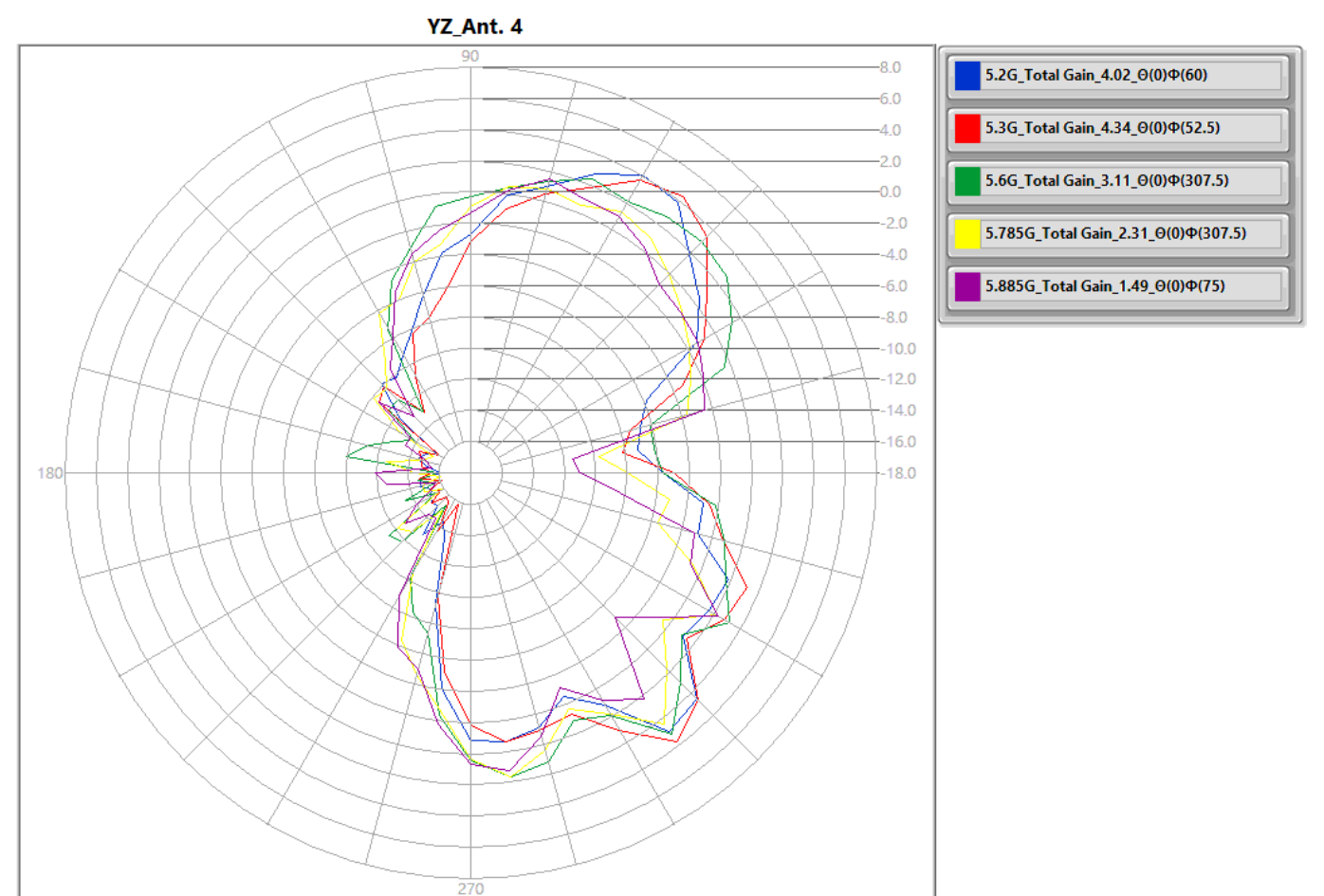
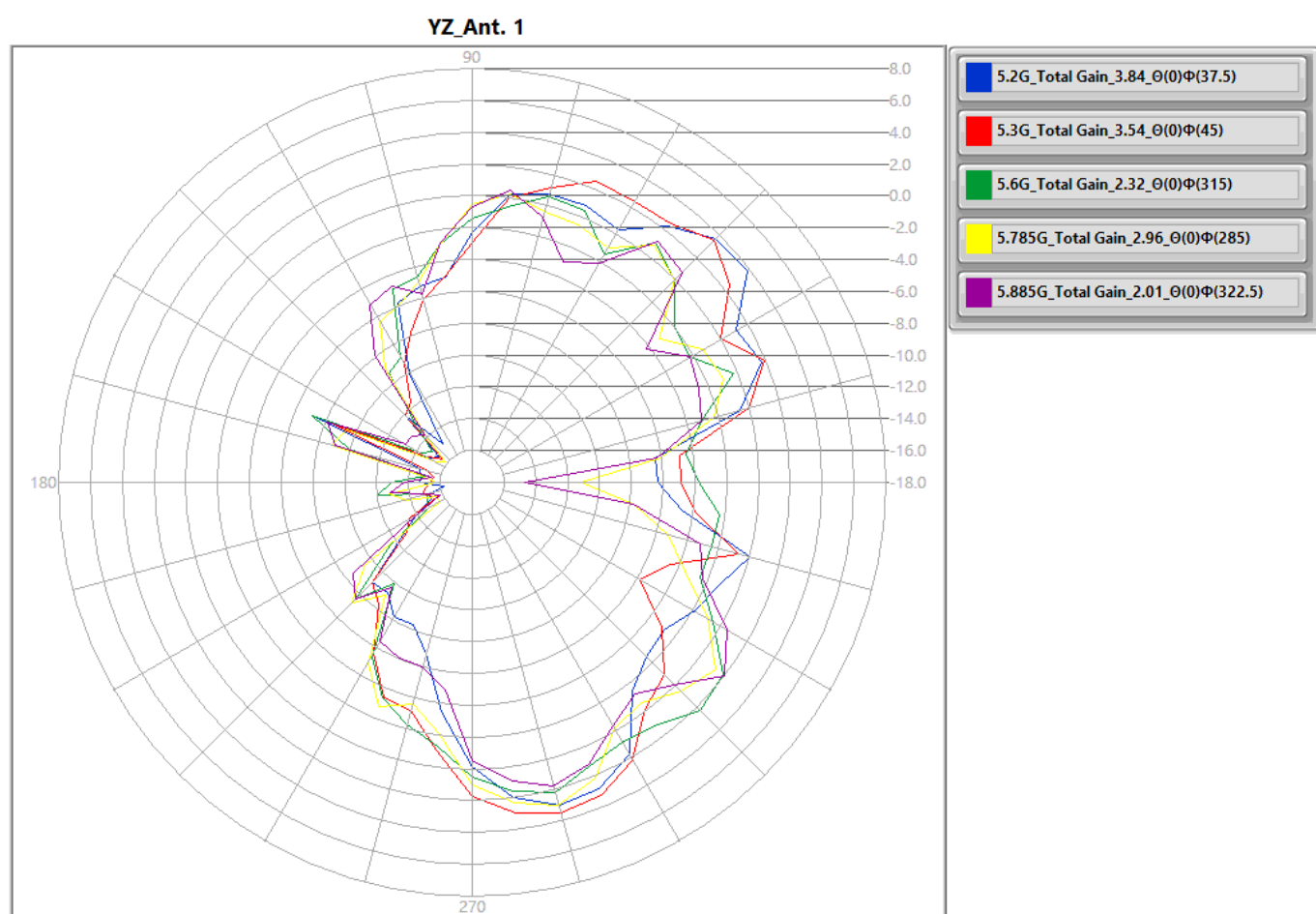
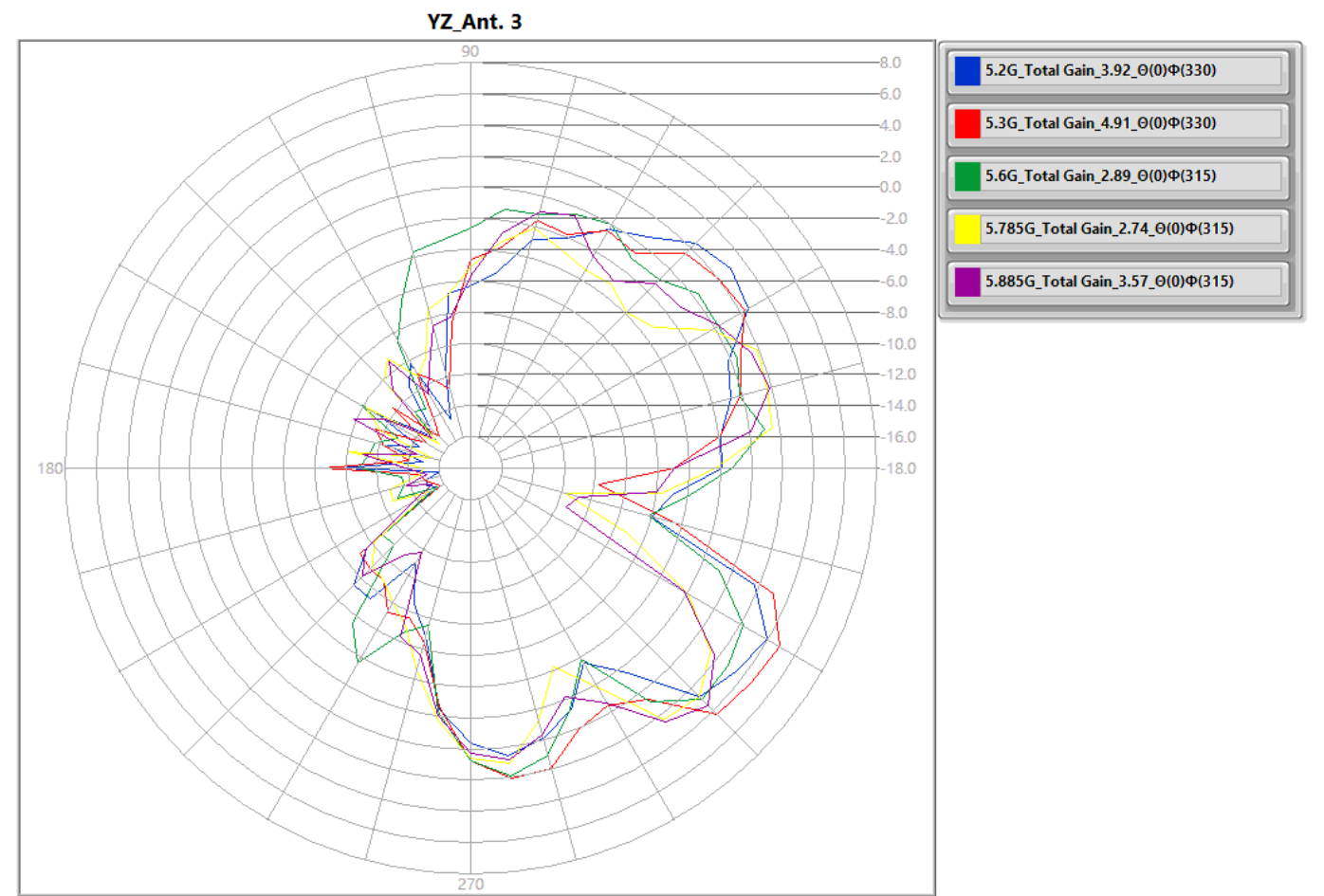
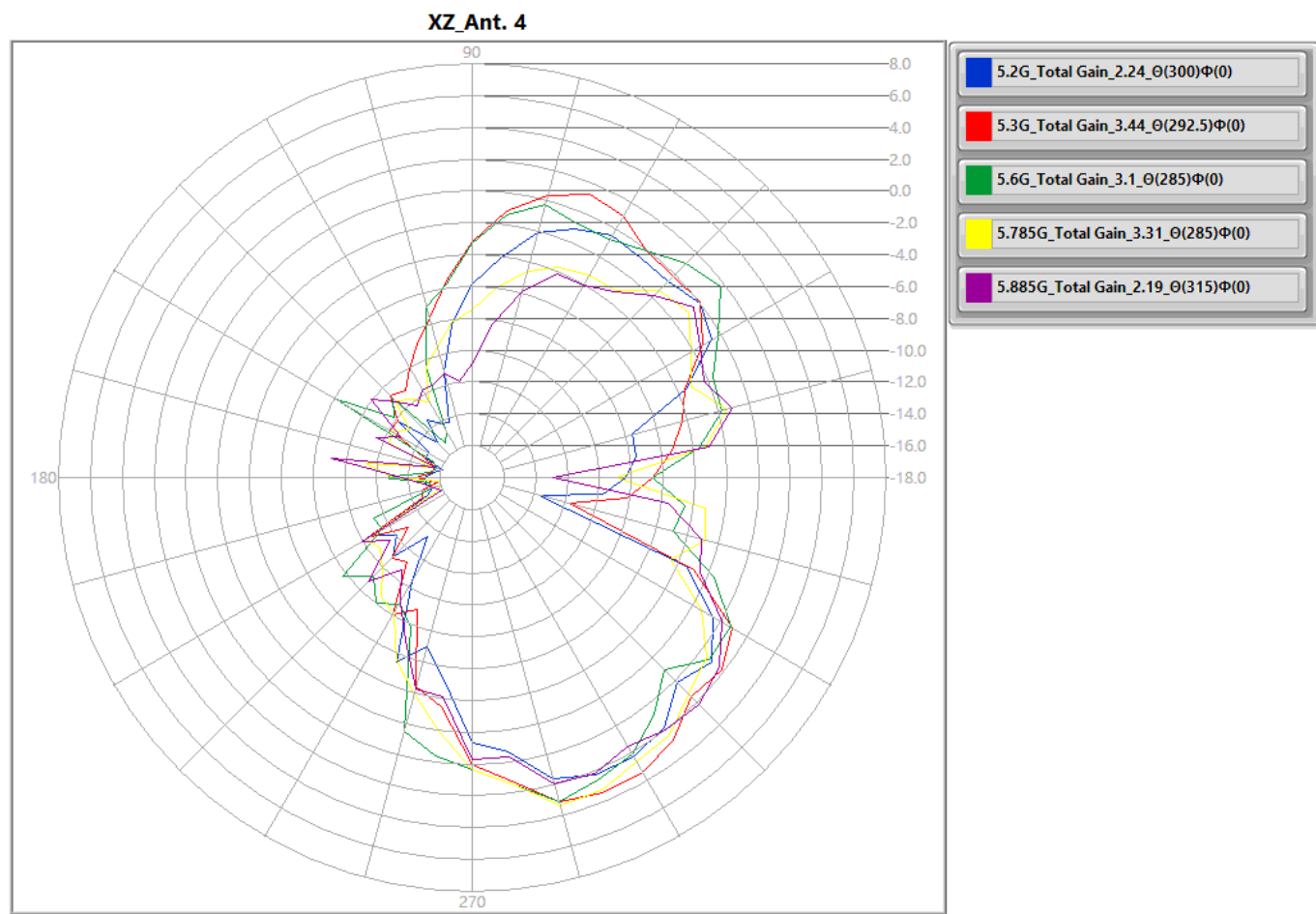
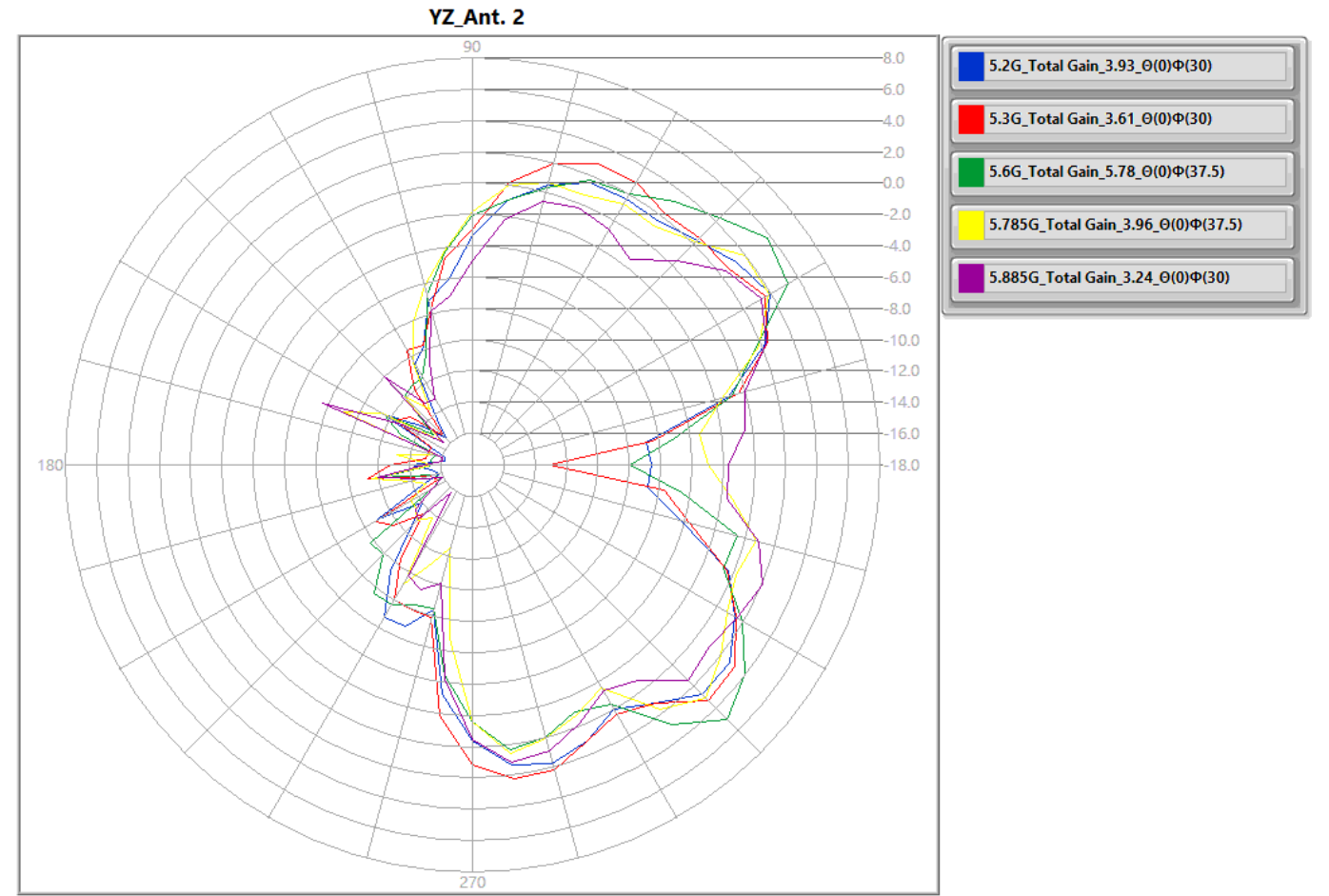
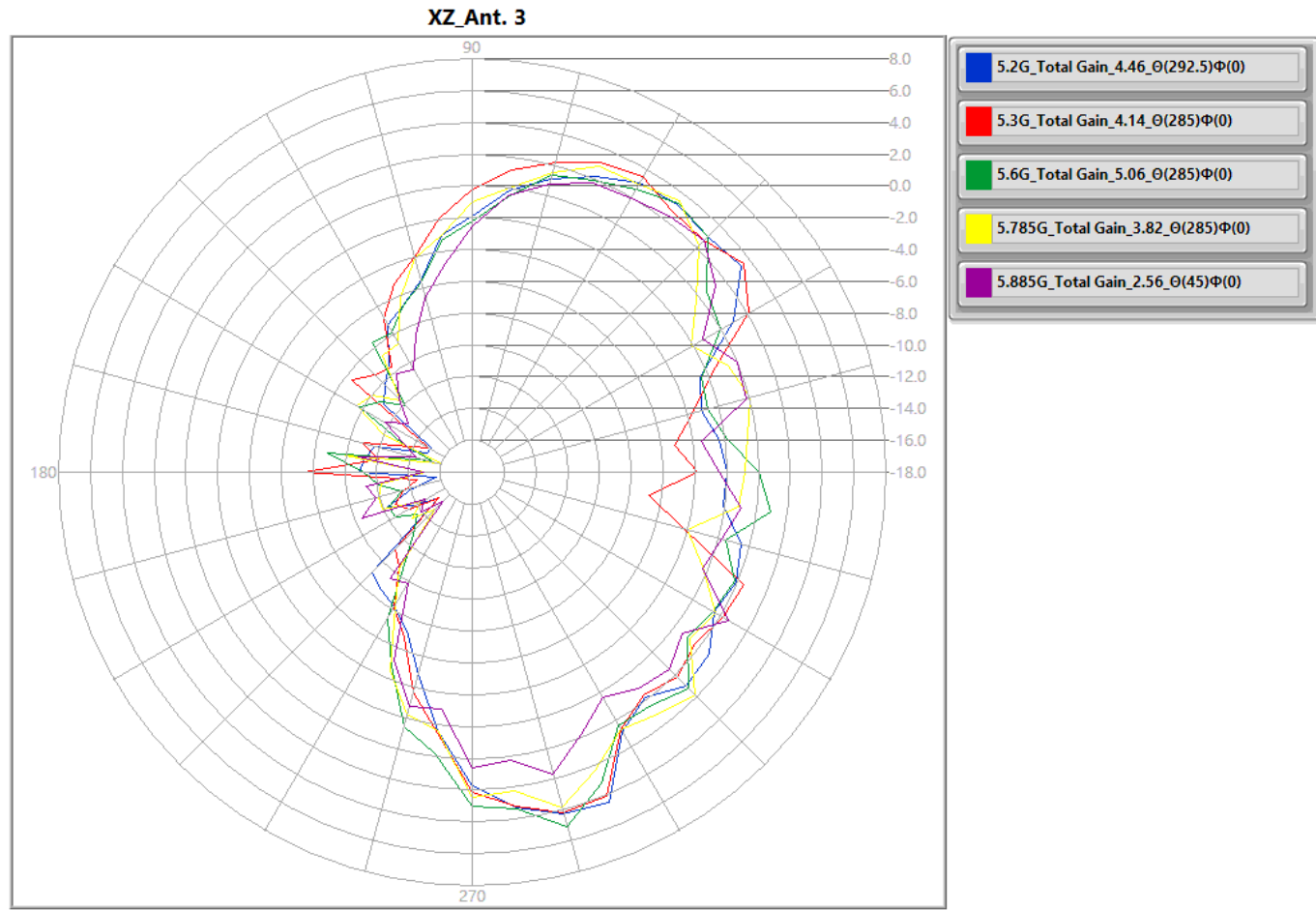
Antenna Pattern Radio 2_5GHz

Appendix E

Θ(157.5°)	-14.69/-15.19	-15.12/-13.41	-14.22/-15.21	-15.16/-14.72	-14.94/-15.35	-14.03/-14.22	-14.43/-15.21	-14.69/-13.46	-12.51/-13.23	-14.57/-15.42	-15.75/-15.55	-15.42/-15.27	-14.62/-12.50	-13.12/-15.46	-15.25/-15.31	-15.41/-14.91	-15.14/-15.72	-15.44/-15.09	-15.10/-14.92	-11.90/-12.40	-14.94/-15.06	-14.81/-14.38	-13.87/-14.82	-15.29/-15.55
Θ(165°)	-15.55/-15.53	-14.50/-15.53	-15.49/-15.50	-15.22/-14.12	-13.06/-13.44	-13.99/-14.68	-14.76/-15.27	-15.04/-15.27	-16.18/-15.05	-14.77/-14.95	-14.68/-15.12	-14.46/-15.46	-14.78/-14.73	-15.30/-14.68	-15.75/-15.39	-15.49/-15.80	-16.06/-15.17	-14.72/-15.18	-16.06/-15.21	-14.46/-13.84	-15.28/-14.82	-14.97/-15.62	-15.82/-15.70	-14.73/-14.76
Θ(172.5°)	-15.51/-14.99	-14.61/-14.82	-15.44/-16.00	-14.59/-15.29	-14.95/-15.31	-16.36/-14.92	-14.82/-15.78	-15.81/-15.52	-14.70/-15.28	-15.46/-13.89	-13.89/-14.70	-14.98/-14.92	-15.82/-14.57	-13.66/-14.33	-15.41/-15.64	-15.40/-16.08	-16.02/-15.15	-15.20/-15.25	-14.67/-14.91	-14.07/-13.19	-13.72/-14.71	-15.31/-14.27	-13.27/-13.62	-15.82/-15.33
Θ(180°)	-14.48/-15.87	-15.20/-15.17	-15.77/-15.58	-14.84/-14.94	-16.08/-15.00	-15.47/-14.41	-15.47/-16.03	-15.45/-15.49	-15.21/-14.93	-15.37/-16.04	-15.53/-15.39	-15.53/-15.48	-15.96/-15.48	-14.72/-15.17	-15.48/-15.72	-14.50/-14.80	-15.45/-14.77	-14.94/-15.85	-15.38/-14.59	-15.81/-15.17	-14.67/-14.85	-15.47/-14.79	-14.49/-15.60	-15.48/-15.67
Freq(Hz)	5.6GPol.	TotalAnt.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°)	-6.62/-6.35	-5.79/-6.02	-6.36/-6.56	-6.22/-5.88	-5.83/-5.94	-5.95/-5.85	-5.65/-5.80	-5.40/-5.37	-5.64/-5.74	-5.61/-5.45	-5.66/-5.76	-5.43/-5.31	-5.14/-4.95	-5.14/-4.75	-4.74/-4.75	-4.62/-5.00	-5.52/-5.61	-4.97/-4.08	-4.42/-5.84	-6.47/-5.49	-4.42/-4.54	-5.52/-6.25	-5.35/-4.75	-5.03/-5.38
Θ(7.5°)	-3.62/-3.59	-3.25/-3.93	-4.36/-4.37	-4.45/-4.93	-5.53/-5.87	-5.89/-5.82	-6.12/-6.61	-6.34/-5.79	-5.89/-6.57	-6.74/-5.98	-5.46/-4.84	-4.45/-4.30	-4.52/-4.21	-3.84/-3.22	-2.54/-1.94	-1.59/-1.76	-2.38/-3.21	-3.37/-2.50	-2.20/-3.06	-4.24/-4.23	-3.58/-3.41	-4.33/-4.79	-3.98/-3.20	-3.33/-3.58
Θ(15°)	-1.74/-1.09	-1.46/-2.35	-3.12/-3.77	-4.88/-5.85	-5.97/-5.91	-5.70/-5.73	-6.09/-6.62	-6.69/-6.26	-5.95/-6.05	-5.84/-5.01	-3.93/-3.62	-3.46/-4.21	-4.91/-5.12	-2.10/-2.51	-1.85/-1.80	-2.10/-2.51	-2.38/-1.59	-1.15/-1.30	-1.64/-1.77	-1.74/-1.75	-2.22/-2.83	-3.12/-3.30	-3.00/-2.52	
Θ(22.5°)	-1.58/-0.47	-0.24/-0.22	-0.60/-1.36	-2.64/-2.63	-1.57/-0.73	-0.39/-0.25	-0.37/-1.21	-2.93/-5.61	-9.17/-9.04	-6.67/-4.63	-2.81/-1.78	-1.42/-1.52	-1.57/-1.76	-2.04/-2.77	-3.72/-4.34	-3.44/-1.68	-0.260/0.30	0.35/-0.01	-0.35/-0.86	-1.11/-0.86	-0.79/-1.58	-3.41/-5.49	-6.16/-6.00	-4.87/-3.02
Θ(30°)	-0.180/-0.34	0.81/-1.19	1.35/-1.17	0.62/-0.10	-0.31/-0.00	0.68/-1.33	1.32/-0.03	-2.79/-5.80	-7.18/-7.15	-6.25/-3.12	-0.12/-1.13	0.770/-3.1	0.751/-4.8	2.19/-2.59	2.050/-96	-0.42/-0.71	0.10/-1.22	1.83/-1.87	1.170/-8.4	1.14/-1.01	0.21/-0.37	-0.27/-0.81	-1.74/-2.32	-2.22/-1.67
Θ(37.5°)	0.167/-0.96	0.38/-1.05	2.45/-3.16	3.07/-1.67	-0.32/-0.38	1.55/-2.80	2.69/-1.28	-0.98/-2.73	-3.33/-3.78	-3.82/-2.29	0.45/-1.58	1.260/-05	0.751/-16	2.17/-2.87	3.32/-0.30	1.20/-1.21	-1.460/-05	-0.12/-1.26	-0.960/-80	1.84/-1.37	-0.04/-1.22	-1.21/-0.40	-0.370/-0.2	0.880/-83
Θ(45°)	0.97/-0.33	-1.81/-0.20	2.69/-4.35	4.77/-4.42	0.08/-0.41	2.44/-3.51	2.96/-1.34	-0.05/-0.62	-1.33/-2.40	-3.75/-4.17	-1.540/-28	0.62/-0.83	-0.96/-0.20	1.122/-04	3.45/-3.54	2.07/-0.99	-0.780/-77	0.140/-61	0.990/-88	0.68/-0.08	-1.07/-2.37	-2.95/-3.43	-3.18/-1.93	0.59/-1.36
Θ(52.5°)	-0.03/-0.80	-1.15/-0.75	1.21/-3.52	4.46/-3.09	0.150/-59	2.92/-3.52	2.66/-1.23	0.70/-1.19	0.780/-20	-1.07/-2.57	-1.04/-0.65	-0.50/-0.05	0.75/-0.10	-0.020/-48	1.25/-1.08	0.27/-2.12	-0.84/-0.57	0.652/-16	3.11/-2.04	0.80/-0.54	-2.12/-2.84	-4.63/-5.43	-5.27/-6.14	-3.98/-3.32
Θ(60°)	-0.71/-0.26	0.500/-20	0.89/-2.69	4.02/-3.44	1.740/-95	1.56/-2.15	2.08/-1.17	0.77/-1.14	1.290/-85	1.35/-1.06	1.71/-2.36	2.09/-1.25	0.200/-90	1.64/-2.31	0.70/-1.08	-0.33/-1.90	-4.16/-2.56	-0.08/-0.40	-3.61/-9.42	-8.24/-3.32	-5.66/-3.81	-1.81/-1.03	-4.30/-2.94	
Θ(67.5°)	-0.74/-1.57	0.250/-34	0.30/-1.46	3.05/-2.93	1.550/-59	0.82/-1.97	2.36/-1.32	1.13/-1.60	2.28/-2.69	3.04/-2.66	3.130/-38	3.34/-3.27	2.57/-1.33	1.14/-1.91	1.41/-3.37	2.36/-1.48	0.42/-2.36	-6.17/-4.41	-0.80/-3.80	-11.89/-7.08	-4.17/-0.78	0.37/-1.43	0.10/-0.06	-1.73/-1.39
Θ(75°)	-0.29/-2.42	-1.34/-1.06	-1.24/-0.08	1.38/-2.11	0.850/-49	-0.70/-0.41	1.36/-3.10	-0.71/-0.52	1.39/-2.67	2.79/-2.29	2.72/-3.56	2.84/-0.5	3.102/-09	0.37/-1.25	0.023/-41	2.65/-1.25	1.37/-0.42	-2.990/-17	1.13/-2.21	-2.06/-0.27	-0.300/-06	0.840/-18	0.09/-0.09	-0.62/-1.48
Θ(82.5°)	-1.37/-3.97	-3.47/-2.40	-2.18/-1.54	-0.510/-69	-0.320/-16	-2.40/-0.80	-0.47/-1.22	-2.08/-0.43	-0.15/-1.48	1.550/-08	1.39/-2.07	2.54/-1.96	1.41/-0.22	-0.950/-66	-0.162/-62	1.310/-62	0.66/-0.45	-1.56/-1.41	1.65/-0.57	0.57/-1.20	0.42/-0.28	-0.21/-0.63	-1.06/-2.55	-3.43/-2.36
Θ(90°)	-3.28/-5.68	-6.66/-4.82	-3.39/-3.30	-2.16/-0.86	-2.36/-1.24	-4.41/-2.42	-0.27/-1.52	-3.26/-1.51	-0.860/-35	0.31/-1.03	-0.170/-66	0.131/-18	0.36/-0.59	-3.60/-1.35	-3.18/-0.15	-1.31/-1.99	-1.40/-1.62	-1.50/-1.25	0.43/-1.13	0.69/-1.41	-0.81/-1.72	-2.04/-3.01	-3.37/-4.67	-5.95/-4.42
Θ(97.5°)	-5.71/-7.19	-9.40/-7.61	-6.59/-5.72	-3.93/-2.36	-3.94/-2.58	-5.55/-3.15	-0.81/-2.16	-4.33/-2.68	-2.43/-1.72	-1.74/-2.69	-1.42/-3.04	-1.79/-1.90	-0.38/-2.91	-3.53/-3.32	-3.04/-1.96	-3.43/-3.97	-4.25/-6.11	-3.47/-0.93	-2.31/-3.64	-0.59/-6.09	-3.70/-5.23	-5.21/-5.29	-5.66/-7.07	-8.45/-7.22
Θ(105°)	-6.89/-7.72	-11.76/-10.48	-9.34/-7.67	-5.56/-4.51	-6.70/-6.54	-5.64/-4.51	-7.36/-3.89	-3.68/-3.83	-4.51/-4.53	-2.89/-4.65	-3.77/-2.14	-1.48/-3.93	-4.26/-5.87	-6.19/-5.97	-7.97/-9.95	-6.93/-10.54	-3.71/-5.54	-2.37/-3.65	-4.23/-3.52	-7.67/-6.97	-10.77/-6.92	-10.22/-8.29	-11.63/-9.38	
Θ(112.5°)	-10.53/-9.69	-9.59/-11.88	-11.70/-7.00	-6.41/-6.40	-7.01/-5.89	-5.92/-8.19	-4.65/-6.10	-9.40/-6.86	-5.53/-5.14	-6.23/-5.01	-3.78/-6.47	-8.78/-8.90	-7.89/-11.63	-8.51/-7.55	-6.80/-9.08	-6.42/-13.54	-9.00/-12.27	-8.74/-7.17	-8.37/-10.81	-5.94/-6.71	-9.20/-10.08	-10.30/-9.00	-12.53/-14.03	-13.66/-11.24
Θ(120°)	-14.77/-9.88	-9.42/-10.34	-13.57/-7.25	-6.27/-7.57	-8.39/-8.84	-7.66/-9.94	-7.39/-6.66	-9.83/-11.75	-8.45/-7.24	-6.82/-5.67	-4.19/-3.67	-4.68/-8.25	-8.77/-4.78	-5.12/-6.33	-5.19/-7.97	-13.50/-11.67	-8.80/-8.13	-10.30/-8.70	-4.63/-5.62	-6.04/-11.41	-12.08/-11.02	-15.75/-13.99	-13.40/-12.05	
Θ(127.5°)	-15.22/-10.55	-9.56/-13.65	-11.86/-7.08	-7.98/-8.87	-9.66/-10.40	-8.97/-12.00	-13.01/-9.60	-8.17/-9.84	-12.59/-13.27	-11.06/-10.51	-8.18/-5.25	-4.87/-5.74	-8.03/-8.98	-12.13/-11.28	-13.65/-15.66	-10.44/-10.74	-15.67/-10.22	-12.83/-12.29	-15.34/-12.32	-9.97/-15.47	-15.92/-15.02	-15.22/-14.94	-11.39/-13.86	
Θ(135°)	-10.90/-10.99	-13.08/-15.45	-11.92/-8.34	-8.72/-10.22	-10.07/-12.35	-10.77/-9.36	-11.43/-13.25	-11.40/-9.60	-10.92/-12.83	-11.91/-9.99	-11.63/-12.29	-10.80/-10.81	-9.28/-9.83	-10.59/-11.09	-11.77/-12.71	-12.27/-10.81	-13.97/-12.49	-12.16/-12.40	-11.73/-14.96	-11.90/-10.81	-12.28/-14.94	-15.90/-13.83	-12.47/-13.40	-15.25/-15.75
Θ(142.5°)	-11.85/-11.86	-12.03/-15.64	-13.16/-9.56	-9.95/-11.96	-10.76/-11.63	-14.35/-12.85	-11.43/-10.93	-11.55/-12.21	-11.09/-11.24	-9.77/-10.17	-9.92/-8.89	-6.59/-6.10	-7.79/-1.79	-12.17/-15.22	-14.71/-13.20	-10.49/-11.47	-13.36/-11.60	-9.91/-7.77	-11.37/-12.75	-13.88/-11.24	-10.80/-11.87	-14.26/-12.55	-14.45/-15.56	-15.82/-14.66
Θ(150°)	-8.16/-8.05	-10.07/-11.92	-12.04/-9.63	-9.82/-12.82	-13.45/-14.90	-15.06/-15.07	-13.81/-10.62	-9.97/-11.51	-13.39/-14.75	-12.75/-11.16	-11.68/-12.94	-14.84/-13.83	-11.51/-9.43	-8.45/-9.60	-12.00/-14.34	-15.48/-12.30	-14.07/-12.83	-12.60/-12.87	-15.46/-15.74	-12.33/-13.00	-15.76/-13.31	-13.57/-13.45	-14.84/-16.09	-15.85/-12.37
Θ(157.5°)	-15.89/-15.62	-15.56/-15.68	-13.79/-11.07	-10.75/-12.62	-15.61/-13.44	-10.87/-11.33	-12.71/-12.32	-11.20/-10.43	-9.66/-8.43	-7.48/-8.40	-9.90/-11.30	-12.01/-11.50	-11.33/-12.93	-13.65/-11.15	-12.04/-12.91	-15.81/-15.73	-14.23/-12.08	-11.59/-15.14	-13.46/-13.07	-11.24/-12.15	-13.71/-12.34	-14.05/-15.19	-16.02/-14.96	-12.01/-11.78
Θ(165°)	-15.68/-15.35	-13.38/-11.62	-10.26/-9.80	-10.77/-12.01	-12.55/-12.57	-11.55/-11.02	-11.28/-13.02	-13.21/-12.36	-13.70/-15.71	-15.82/-14.77	-13.56/-12.66	-14.25/-15.25	-15.27/-15.40	-14.58/-13.08	-13.85/-15.42	-14.78/-16.14	-14.47/-13.43	-14.16/-15.48	-15.55/-15.25	-15.91/-15.22	-15.08/-15.64	-15.02/-15.79	-13.51/-13.31	-15.44/-14.98
Θ(172.5°)	-15.32/-14.47	-15.35/-15.50	-15.48/-15.19	-15.13/-15.34	-12.93/-11.40	-9.89/-9.32	-9.97/-11.60	-13.03/-13.53	-13.94/-13.36	-13.10/-12.87	-12.81/-14.37	-15.29/-15.08	-15.29/-15.45	-14.11/-13.09	-13.36/-14.52	-13.81/-12.98	-13.91/-14.90	-15.73/-15.41	-14.58/-13.89	-13.75/-13.15	-13.16/-13.57	-12.87/-11.95	-12.00/-12.63	-15.47/-15.80
Θ(180°)	-12.35/-12.51	-13.03/-14.85	-15.17/-15.13	-14.97/-14.46	-14.03/-14.76	-15.06/-15.36	-15.67/-15.07	-14.83/-15.38	-15.03/-14.32	-12.96/-13.02	-13.09/-14.48	-15.36/-14.82	-15.04/-13.24	-12.84/-12.04	-12.02/-11.71	-11.43/-11.37	-10.11/-9.41	-10.26/-11.45	-11.53/-11.87	-13.67/-13.23	-11.83/-10.86	-10.95/-11.03	-11.33/-10.40	-9.93/-11.28
Freq(Hz)	5.785GPol.	TotalAnt.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°)	-8.94/-9.05	-9.96/-9.78	-10.06/-10.26	-10.27/-9.65	-8.59/-8.20	-8.18/-8.16	-7.93/-7.99	-7.99/-9.31	-9.99/-9.57	-8.91/-8.27	-7.91/-7.58	-7.10/-6.98	-7.32/-7.43	-7.94/-8.97	-9.99/-9.87	-9.47/-9.17	-9.54/-10.64	-11.07/-9.23	-7.78/-7.26	-8.79/-9.22	-8.80/-8.70	-9.24/-8.93	-8.14/-7.47	-7.21/-7.40

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 $\Theta(0-180)\Phi(270)$







Sporton International Inc. Hsinchu Laboratory



Antenna Pattern_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

Θ(22.5°)	-8.53/-3.96	-3.02/-3.97	-6.70/-8.42	-6.66/-4.94	-4.51/-5.13	-5.53/-6.97	-9.56/-8.75	-4.79/-1.92	-0.77/-0.69	-0.97/-1.98	-2.39/-0.57	0.39/-0.15	-1.55/-2.79	-2.55/-1.96	-3.23/-6.83	-5.68/-1.59	0.23/-0.06	-1.63/-2.64	-2.11/-2.29	-2.96/-4.02	-5.53/-6.74	-5.91/-3.01	-1.42/-2.26	-6.63/-7.60
Θ(30°)	-7.42/-6.47	-5.86/-6.85	-3.64/-1.73	-1.86/-2.70	-4.16/-8.30	-2.65/-1.85	-3.86/-2.50	0.11/0.48	-0.88/-0.42	0.78/0.28	-1.05/-2.81	-2.03/-0.11	-0.08/-2.82	-4.45/-4.90	-5.51/-2.69	-2.16/-1.37	-1.37/-1.92	-2.48/-2.42	-2.74/-2.29	-4.94/-9.41	-8.42/-4.89	-3.91/-4.31	-4.18/-0.46	-6.66/-8.69
Θ(35°)	-1.07/-2.20	-6.09/-3.87	-4.41/-6.19	-6.11/-1.65	-0.12/-2.13	-2.71/-5.39	-5.14/-2.40	-0.53/-0.79	0.93/-1.07	0.31/-1.39	2.82/-1.01	1.35/-4.23	2.20/-2.39	0.45/-2.35	-0.02/-2.16	-7.32/-3.77	-1.29/-0.31	0.16/-0.03	-0.38/-1.78	-3.77/-3.56	-3.40/-5.81	-6.06/-5.41	-6.78/-12.83	-6.22/-3.19
Θ(45°)	-2.36/-0.92	-1.82/0.46	-1.27/-6.62	1.05/2.98	1.44/-2.58	-4.57/-1.90	-3.27/-1.49	1.25/-1.64	0.65/0.15	-1.84/-1.82	1.65/-0.91	1.57/-0.04	3.51/0.72	1.46/-4.37	1.70/-2.58	-3.45/-5.91	-4.33/-3.71	-5.74/-4.38	-4.41/-8.37	-9.32/-3.78	-1.64/-1.42	-1.96/-4.21	-2.86/-4.17	-9.42/-4.87
Θ(52.5°)	-0.26/-1.88	-3.01/-0.25	1.85/-2.00	1.20/3.00	0.57/-1.56	0.47/0.31	-2.43/-1.81	2.30/-0.50	0.63/-1.23	3.39/-4.45	4.17/-0.50	3.86/-0.32	1.99/-4.74	3.54/-1.20	-0.19/-0.19	-2.55/-9.51	-3.44/-1.64	-2.87/-0.04	-3.74/-3.73	-1.62/-3.18	-5.93/-9.24	-8.25/-7.81	-5.84/-4.69	-0.91/-1.19
Θ(60°)	-0.06/-0.40	-4.94/-3.85	0.89/0.50	-1.44/-2.04	1.92/3.10	-0.88/-0.38	-1.33/0.47	0.35/0.57	3.32/-2.33	2.17/-4.35	2.49/-1.94	1.43/-1.15	4.41/-1.69	4.40/-2.17	0.41/-1.52	-0.41/-2.76	0.04/1.52	0.44/-0.88	-3.45/-2.28	-0.66/-1.54	-4.69/-8.12	-14.71/-3.55	-2.61/-4.90	-1.96/-0.38
Θ(67.5°)	-2.75/-1.34	-7.14/-3.74	-3.88/-0.36	-4.98/-1.02	2.49/-1.05	-0.43/-1.15	-1.08/-2.16	1.10/-1.33	1.87/-1.98	0.13/-3.58	1.23/-4.41	1.70/-2.16	-4.72/-1.89	1.05/-1.86	-3.73/0.95	-1.35/0.23	0.82/0.21	1.57/-3.26	-4.60/-5.18	-0.48/-0.88	-5.09/-7.03	-13.70/-3.40	-1.64/-3.86	-3.57/-2.96
Θ(75°)	-3.96/-2.74	-6.70/-2.59	-15.68/-3.99	-7.32/-0.58	1.35/-2.69	0.01/-2.00	-3.97/-6.56	-0.65/-0.72	0.49/-1.59	2.84/-1.54	4.93/-1.17	-2.31/-0.91	0.67/-2.30	-0.33/0.64	-0.77/-1.13	-0.18/-0.82	2.28/-1.29	-1.55/-4.25	0.38/-2.42	-9.67/-6.82	-12.28/-7.62	-4.52/-4.10	-2.32/-3.43	
Θ(82.5°)	-4.22/-3.44	-5.77/-2.27	-12.97/-7.10	-10.35/-1.91	-0.19/-5.94	-1.32/-4.37	-4.90/-6.06	-3.02/-0.94	0.13/0.43	2.88/-3.15	5.08/-6.62	2.67/-0.47	-2.77/-1.93	-3.26/-0.02	-0.71/-1.60	-1.82/0.84	-3.05/-1.39	1.69/-0.50	-1.01/-1.73	-0.44/-7.87	-13.97/-7.71	-11.17/-10.59	-7.67/-6.76	-2.79/-2.53
Θ(90°)	-5.71/-6.46	-7.10/-2.66	-9.32/-9.41	-12.24/-3.78	-4.09/-6.38	-2.73/-5.81	-4.69/-8.99	-5.71/-0.14	-1.22/-2.40	1.58/-1.37	2.48/-5.67	2.60/-0.55	-1.85/-2.29	0.93/-3.81	-1.19/-0.42	-1.99/-2.38	-6.13/0.43	-0.46/-0.66	-1.92/-2.54	-3.65/-10.28	-9.21/-8.61	-11.00/-14.39	-9.20/-7.01	-3.34/-2.51
Θ(97.5°)	-7.82/-7.66	-8.27/-2.91	-7.74/-11.24	-15.27/-6.07	-7.26/-7.27	-4.24/-8.03	-7.08/-8.11	-8.47/-1.01	-3.62/-4.22	-0.04/-2.11	-1.91/0.73	-0.85/-0.77	-1.91/0.73	-3.19/-3.26	-6.51/-4.55	-7.05/-5.22	-5.87/-1.32	-2.10/-2.41	-6.08/-5.44	-6.06/-8.06	-6.23/-9.26	-11.30/-14.41	-8.83/-9.41	-7.89/-9.94
Θ(105°)	-6.17/-7.46	-9.44/-4.33	-7.17/-14.48	-13.92/-9.06	-10.93/-9.52	-5.26/-9.85	-12.68/-1.18	-0.66/-7.19	-1.52/-5.33	-5.53/-3.92	-1.01/-0.72	-0.84/-5.26	-3.16/-0.30	-1.38/-1.68	-5.91/-5.67	-5.38/-2.89	-1.33/-3.01	-4.89/-6.26	-2.76/-9.94	-6.49/-6.70	-10.59/-14.19	-7.56/-11.02	-7.93/-3.20	
Θ(112.5°)	-6.91/-6.73	-8.52/-6.74	-11.91/-14.28	-14.43/-13.84	-12.77/-10.48	-8.57/-7.24	-14.17/-14.20	-10.46/-10.33	-5.97/-7.36	-4.95/-1.89	-0.77/-0.84	-2.57/-6.42	-2.43/-1.25	-8.79/-3.62	-10.39/-9.23	-8.30/-5.57	-7.94/-3.90	-4.12/-6.12	-10.52/-6.18	-2.02/-12.70	-7.02/-9.39	-15.15/-14.64	-6.82/-10.43	-11.55/-3.27
Θ(120°)	-8.83/-11.73	-9.23/-12.19	-9.32/-12.23	-11.13/-12.41	-10.29/-12.14	-9.10/-7.50	-15.04/-14.65	-10.40/-7.53	-9.51/-11.97	-11.48/-4.29	-6.28/-3.36	-4.22/-5.53	-5.54/-3.24	-8.05/-11.95	-8.87/-8.26	-10.01/-8.58	-12.38/-2.26	-3.17/-6.69	-10.62/-6.19	-5.34/-12.26	-7.14/-5.62	-16.14/-16.00	-5.50/-11.57	-10.02/-6.85
Θ(127.5°)	-10.08/-11.85	-10.09/-13.19	-5.51/-11.46	-14.32/-12.57	-13.04/-10.35	-15.26/-8.59	-14.73/-14.34	-11.44/-12.92	-10.91/-8.66	-7.77/-6.25	-9.32/-7.50	-6.86/-9.94	-6.38/-11.53	-12.82/-5.83	-12.58/-10.54	-4.50/-1.70	-6.67/-1.75	-2.87/-7.66	-6.06/-7.70	-6.75/-6.89	-13.03/-10.61	-10.59/-15.17	-5.80/-11.65	-11.54/-8.97
Θ(135°)	-8.50/-10.07	-10.26/-13.08	-10.35/-8.37	-10.77/-8.59	-11.25/-14.65	-8.68/-8.01	-14.89/-14.98	-12.52/-9.15	-7.06/-6.07	-7.63/-6.38	-5.14/-7.21	-9.14/-7.53	-9.86/-11.13	-8.58/-13.32	-12.67/-9.87	-6.23/-11.67	-12.72/-3.88	-4.46/-8.65	-10.07/-13.49	-8.82/-10.42	-15.71/-15.23	-11.29/-10.03	-8.35/-11.31	-13.33/-8.37
Θ(142.5°)	-5.02/-0.68	-10.47/-13.03	-12.49/-9.46	-12.41/-9.58	-9.73/-14.99	-13.09/-8.87	-8.20/-14.66	-10.43/-9.83	-8.04/-4.88	-8.17/-14.55	-6.88/-11.12	-9.94/-9.65	-15.08/-9.07	-8.86/-13.31	-13.00/-9.49	-9.32/-13.58	-11.23/-2.47	-4.88/-11.13	-12.88/-8.98	-10.63/-14.44	-10.80/-14.72	-11.22/-9.88	-9.80/-14.73	-12.69/-8.88
Θ(150°)	-7.03/-8.78	-8.14/-7.63	-12.23/-13.33	-10.40/-9.12	-10.93/-7.58	-7.59/-11.87	-11.32/-15.24	-10.38/-9.44	-13.25/-8.86	-8.38/-12.09	-14.90/-9.28	-9.58/-11.14	-10.54/-11.93	-13.82/-9.47	-8.18/-10.21	-11.41/-9.77	-9.57/-14.00	-12.13/-7.25	-8.24/-11.90	-11.47/-9.93	-13.63/-12.53	-15.68/-15.08	-14.92/-9.77	
Θ(157.5°)	-8.30/-10.27	-9.08/-7.62	-8.91/-13.52	-13.87/-12.44	-14.48/-12.08	-7.93/-9.42	-13.95/-14.93	-8.83/-6.83	-7.50/-10.95	-8.18/-7.24	-13.77/-15.43	-11.89/-11.59	-15.71/-9.52	-8.39/-12.31	-8.92/-5.93	-6.47/-7.34	-6.99/-8.22	-11.51/-11.08	-9.14/-9.88	-13.40/-11.62	-11.87/-12.16	-11.89/-14.30	-15.31/-11.63	-8.40/-8.50
Θ(165°)	-13.15/-12.03	-9.85/-8.90	-9.87/-10.19	-11.02/-12.28	-13.02/-10.76	-7.48/-6.79	-7.92/-10.61	-12.70/-12.28	-14.28/-14.90	-15.40/-12.16	-9.58/-7.81	-8.93/-10.38	-11.88/-9.51	-6.37/-6.91	-7.01/-6.19	-6.38/-6.36	-11.39/-13.04	-13.33/-10.60	-9.86/-11.20	-13.70/-11.91	-9.84/-9.28	-10.07/-10.56	-10.80/-11.73	-12.42/-12.53
Θ(172.5°)	-12.26/-10.47	-9.52/-9.39	-8.52/-9.25	-9.58/-9.81	-7.85/-8.30	-9.48/-11.87	-15.00/-15.55	-14.41/-15.79	-14.54/-12.12	-11.81/-11.88	-12.35/-14.96	-15.60/-12.92	-11.91/-10.89	-9.98/-9.34	-9.25/-9.36	-9.41/-9.63	-10.00/-11.29	-11.78/-12.36	-11.51/-9.98	-9.39/-9.60	-10.24/-11.58	-12.97/-13.92	-14.15/-14.78	-12.34/-11.10
Θ(180°)	-12.49/-12.41	-11.98/-11.69	-11.44/-11.71	-12.49/-13.40	-13.09/-13.68	-14.08/-15.01	-15.89/-14.42	-14.71/-15.50	-15.85/-14.41	-15.31/-14.26	-13.91/-14.10	-16.11/-14.86	-16.22/-15.01	-13.36/-13.10	-12.95/-12.25	-11.29/-11.13	-10.88/-11.68	-10.87/-11.27	-10.90/-10.46	-11.29/-11.96	-11.46/-11.58	-11.65/-11.49	-11.26/-10.92	
Freq(Hz)	6.995GPol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	-5.11/-6.14	-6.62/-7.68	-8.80/-9.51	-9.51/-9.77	-9.57/-8.94	-8.96/-9.18	-8.97/-8.47	-8.49/-8.42	-8.00/-7.79	-8.07/-8.15	-7.16/-7.28	-7.73/-8.12	-8.03/-8.25	-7.60/-7.92	-8.02/-7.87	-6.51/-6.53	-5.90/-4.94	-4.87/-4.18	-3.81/-3.68	-3.94/-4.36	-3.84/-3.57	-3.46/-3.39	-2.72/-2.63	-2.78/-3.59
Θ(7.5°)	-6.60/-5.65	-3.65/-3.61	-3.41/-2.65	-2.45/-1.27	-2.18/-1.94	-1.57/-1.29	-0.89/-0.65	-0.39/-0.32	-0.22/-0.24	-0.56/-0.88	-1.21/-1.52	-2.72/-4.15	-5.68/-6.88	-7.93/-9.54	-9.08/-7.56	-6.15/-4.82	-4.77/-4.69	-4.51/-4.06	-3.99/-4.52	-5.15/-5.94	-6.25/-6.50	-6.99/-7.88	-9.02/-8.65	-7.40/-6.43
Θ(15°)	-5.68/-6.39	-3.43/-2.50	-1.91/-2.22	-6.66/-5.59	-7.01/-7.46	-6.52/-4.49	-2.58/-1.48	-0.89/-0.89	-0.97/-0.36	-3.67/-3.21	-3.01/-2.95	-3.09/-3.75	-4.42/-4.10	-3.68/-3.12	-3.55/-3.60	-2.48/-1.25	-2.04/-3.88	-7.71/-8.81	-7.36/-5.41	-5.24/-5.35	-6.76/-6.93	-5.43/-4.04	-2.72/-2.65	-3.93/-5.76
Θ(22.5°)	-8.44/-7.34	-3.46/-2.31	-3.90/-6.96	-7.42/-3.71	-1.36/-0.85	-1.47/-2.91	-4.42/-4.56	-4.10/-3.48	-2.87/-1.67	-0.80/-0.23	-0.12/-0.50	-1.55/-3.46	-6.56/-7.92	-4.41/-2.43	-3.22/-4.57	-1.71/-0.41	-1.31/-2.78	-1.93/0.01	0.44/-0.76	-2.86/-4.04	-4.81/-6.30	-9.95/-8.68	-4.11/-1.66	-1.59/-3.60
Θ(30°)	-6.09/-3.10	-1.59/-3.15	-5.63/-4.28	-2.72/-2.95	-3.31/-2.72	-2.80/-4.49	-5.26/-3.24	-2.09/-0.62	0.35/-0.51	-1.85/-1.80	-0.86/-0.29	-0.91/-3.79	-2.63/-4.04	-0.99/-1.74	-1.93/-4.53	-1.86/0.18	0.32/0.16	-0.29/-1.34	-1.58/-2.42	-5.10/-6.45	-7.62/-11.92	-7.74/-5.16	-6.16/-6.29	-7.17/-9.01
Θ(37.5°)	-1.03/1.53	1.22/-1.13	-4.97/-4.69	-2.84/-4.16	-2.67/-0.08	0.56/-0.79	-3.02/-2.93	-1.89/0.28	1.22/2.05	3.00/2.11	1.22/1.84	2.17/-0.22	-4.60/-0.49	1.33/0.12	-0.18/-1.86	-2.55/0.63	1.91/0.47	-0.48/0.02	-1.81/-6.65	-9.60/-2.12	1.28/1.36	-1.66/-6.21	-6.02/-4.90	-4.47/-4.53
Θ(45°)	1.85/2.66	0.88/-0.96	-2.35/-3.48	-6.45/-3.59	-1.27/-0.67	-1.43/-1.28	-0.29/1.04	0.48/0.26	-0.03/-0.02	1.37/0.67	-0.23/-1.22	0.97/-0.38	-0.04/0.80	0.90/-0.16	-3.26/-1.51	-0.39/-1.79	-0.18/-2.23	-5.36/-4.64	-2.95/-3.06	-4.22/-5.06	-7.94/-4.17	-1.46/-2.04	-11.11/-10.10	
Θ(52.5°)	0.01/1.33	-3.66/-3.83	-1.71/-0.33	-9.15/-1.33	-2.22/-0.77	0.94/-1.52	0.41/0.74	1.14/-0.10	0.42/-1.26	3.43/3.74	3.39/-2.22	2.93/2.71	1.43/3.66	1.73/-2.19	-0.58/-2.05	-5.84/-2.21	-1.91/-0.76	0.03/-2.42	-1.39/-3.98	-1.72/-1.99	-3.39/-3.97	-3.16/-0.34	1.73/-0.54	-8.00/-0.17
Θ(60°)	-2.64/-1.33	-3.59/-8.07	-6.57/-1.03	-10.31/-1.51	-1.45/0.37	1.37/0.72	0.78/-1.58	2.37/0.43	-2.41/-0.13	4.48/4.51	0.79/0.47	0.37/2.94	-0.12/-1.35	1.85/-1.42	-0.71/-1.57	-5.82/-1.25	0.47/1.07	1.52/0.28	-1.00/-3.15	-0.82/-4.25	-9.68/-8.12	-5.06/-4.67	-1.56/-2.66	-3.86/-0.88
Θ(67.5°)	-0.97/-4.64	-3.79/-7.05	-9.59/-4.98	-8.62/-2.04	0.18/-0.29	-0.23/-1.96	-0.46/-1.92	2.25/2.57	0.42/-2.43	1.85/0.11	-0.69/-2.55	-0.78/-2.13	-3.67/-1.19	0.06/-1.36	-1.62/-2.81	-5.27/-1.07	-0.62/0.97	2.88/1.86	-0.13/-0.48	1.03/-3.03	-14.24/-9.37	-5.79/-6.75	-4.36/-2.98	-3.91/0.45
Θ(75°)	-0.58/-6.83	-3.62/-8.86	-5.10/-6.63	-7.29/-1.85	0.78/-2.87	-4.52/-2.23	-0.07/-8.41	-0.31/-3.20	2.80/-1.19	0.54/0.56														



Antenna Pattern_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

θ(75°)	-3.68/2.52	1.24/4.05	3.99/1.67	-0.27/3.15	3.29/2.84	3.68/2.27	1.93/2.49	-1.45/0.83	-3.08/-5.15	-1.80/-1.33	-2.62/-1.71	-4.26/-6.46	-2.54/-3.23	-5.59/-3.02	0.10/-0.45	-0.18/1.72	0.61/1.02	0.78/0.57	1.75/0.03	-0.31/-2.02	-5.63/0.27	-5.07/1.18	-4.88/-3.45	0.14/-1.67
θ(82.5°)	-7.73/0.40	-1.94/2.22	1.92/-0.08	-2.63/-0.21	2.38/1.87	1.63/0.52	0.66/0.74	-3.53/0.01	-3.79/-4.22	-1.25/-2.03	-3.88/-2.71	-7.46/-2.36	-7.23/-10.57	-9.36/-6.77	-1.46/-3.47	-3.25/0.43	-0.86/-0.97	-0.35/-0.69	1.46/0.01	-0.06/-1.86	-5.20/0.74	-4.55/0.81	-4.82/-6.91	-1.31/-3.15
θ(90°)	-9.10/-1.83	-4.52/-0.37	-0.70/-1.82	-0.60/-0.22	-0.48/-0.84	-1.18/-2.58	-1.26/-1.27	-4.13/-1.81	-4.26/-4.24	-1.77/-3.15	-5.25/-3.17	-4.87/-7.13	-9.20/-9.79	-3.86/-3.89	-6.80/-1.58	-1.17/-4.21	-2.62/-2.53	-1.55/-2.11	-2.26/-2.03	-10.11/-1.01	-6.94/-0.41	-5.68/-10.89	-3.24/-6.01	
θ(97.5°)	-8.98/-2.62	-5.60/-2.26	-2.53/-4.10	-6.14/-2.09	-2.62/-2.55	-3.42/-4.96	-3.21/3.86	-5.34/-3.00	-5.82/-4.60	-3.26/-5.63	-9.24/-5.29	-11.10/-7.83	-11.68/-12.09	-10.08/-10.36	-6.48/-3.80	-7.56/-3.50	-3.02/-6.54	-5.56/-4.84	-5.51/-6.15	-6.51/-3.32	-14.10/-4.90	-9.64/-2.81	-9.37/-12.40	-4.57/-8.71
θ(105°)	-7.81/-6.53	-7.62/-6.16	-5.25/-6.97	-8.60/-2.04	-3.15/-3.54	-5.13/-8.24	-4.43/-4.62	-5.16/-3.79	-7.33/-4.17	-5.22/-8.50	-10.73/-9.20	-8.51/-12.61	-9.73/-12.22	-8.16/-8.07	-9.33/-6.86	-7.83/-4.51	-3.15/-6.16	-8.19/-8.11	-10.59/-5.03	-15.54/-5.49	-10.54/-5.40	-10.08/-12.61	-5.72/-11.39	
θ(112.5°)	-8.50/-9.95	-7.74/-10.19	-7.08/-12.83	-8.34/-2.73	-4.02/-4.09	-5.61/-8.17	-5.58/-5.25	-4.67/-3.68	-10.09/-4.53	-6.53/-7.85	-10.87/-13.00	-11.48/-10.77	-15.00/-8.76	-8.53/-9.13	-7.34/-9.05	-9.34/-6.12	-7.29/-6.92	-5.56/-6.64	-6.27/-8.30	-8.73/-4.35	-15.44/-6.95	-15.14/-6.86	-9.03/-11.03	-7.71/-10.28
θ(120°)	-10.72/-8.95	-9.61/-9.20	-7.87/-12.60	-7.40/-5.34	-9.01/-9.75	-8.94/-8.78	-6.94/-7.22	-6.57/-5.34	-12.50/-5.67	-8.68/-7.75	-13.96/-9.89	-11.04/-10.28	-8.64/-14.10	-9.26/-15.47	-12.78/-8.37	-8.97/-7.21	-12.51/-6.83	-10.54/-7.99	-7.01/-8.96	-9.85/-6.45	-11.02/-10.14	-14.62/-13.00	-14.20/-14.67	-11.03/-12.95
θ(127.5°)	-13.63/-9.73	-11.99/-14.03	-11.28/-15.71	-8.09/-8.62	-14.20/-12.06	-10.76/-11.15	-10.93/-6.63	-7.49/-9.01	-12.16/-6.44	-9.94/-8.64	-14.38/-9.18	-12.55/-11.57	-14.59/-14.65	-11.64/-12.71	-14.65/-8.74	-7.33/-8.74	-12.31/-10.49	-10.81/-9.55	-8.14/-8.35	-14.07/-8.80	-13.02/-11.91	-11.76/-15.34	-15.29/-14.22	-12.88/-11.24
θ(135°)	-11.27/-11.88	-9.41/-15.86	-14.58/-13.49	-11.24/-12.87	-15.05/-12.45	-14.05/-15.41	-9.63/-8.89	-11.81/-11.87	-8.59/-7.59	-14.12/-9.84	-10.91/-10.59	-12.57/-9.27	-10.86/-12.28	-10.98/-10.22	-10.00/-9.35	-8.40/-7.81	-15.45/-12.03	-11.72/-9.09	-7.11/-8.33	-13.23/-10.85	-7.67/-11.33	-12.82/-13.74	-15.86/-15.21	-12.57/-10.13
θ(142.5°)	-12.61/-12.86	-9.89/-12.65	-14.11/-14.43	-11.08/-11.36	-14.85/-13.42	-14.50/-14.37	-12.52/-14.85	-11.27/-10.68	-12.88/-12.84	-13.44/-11.96	-11.94/-13.86	-16.34/-15.24	-15.26/-15.38	-15.67/-12.52	-7.77/-8.49	-10.63/-13.50	-12.27/-14.43	-12.72/-11.70	-8.96/-14.00	-12.00/-14.59	-12.50/-14.04	-13.58/-15.56	-16.00/-13.36	-15.54/-12.30
θ(150°)	-12.50/-11.18	-13.72/-15.58	-13.38/-13.36	-14.29/-14.89	-15.46/-14.87	-14.90/-13.62	-11.99/-12.64	-13.63/-12.42	-15.18/-13.98	-10.38/-12.68	-15.57/-14.81	-15.60/-15.20	-13.79/-15.60	-15.51/-13.51	-13.13/-11.13	-9.44/-10.09	-12.21/-15.67	-13.53/-10.94	-14.65/-11.60	-7.96/-11.66	-13.45/-9.45	-9.74/-10.11	-11.06/-11.06	-14.26/-14.94
θ(157.5°)	-15.95/-13.34	-14.72/-15.53	-15.15/-13.35	-13.36/-15.58	-16.23/-15.27	-14.44/-13.58	-15.11/-14.47	-13.42/-12.55	-15.11/-14.78	-14.78/-14.57	-15.88/-15.64	-13.74/-14.65	-15.50/-15.09	-14.97/-11.56	-9.87/-10.41	-10.35/-11.28	-12.19/-10.69	-9.32/-11.31	-14.46/-10.95	-6.90/-7.81	-11.14/-11.96	-15.17/-14.07	-9.92/-9.55	-14.53/-15.61
θ(165°)	-14.93/-13.76	-15.64/-14.37	-15.07/-14.78	-15.51/-15.30	-12.93/-11.80	-12.50/-13.59	-15.02/-15.86	-15.13/-15.10	-15.08/-15.24	-15.43/-15.89	-15.42/-13.27	-11.73/-12.16	-11.92/-11.70	-11.04/-10.85	-11.76/-13.21	-13.00/-12.89	-10.40/-8.29	-9.34/-12.14	-14.12/-12.83	-9.39/-9.06	-10.41/-12.37	-14.24/-11.87	-10.35/-11.66	-13.15/-15.78
θ(172.5°)	-13.46/-12.67	-11.95/-11.54	-10.83/-10.22	-9.77/-9.79	-10.31/-12.78	-13.92/-15.42	-15.02/-14.95	-14.88/-14.31	-13.47/-13.25	-13.47/-14.60	-14.44/-13.88	-12.83/-11.89	-12.22/-11.22	-10.37/-10.68	-10.84/-10.08	-9.95/-9.84	-9.09/-10.59	-13.35/-13.25	-13.41/-13.70	-12.47/-12.24	-12.03/-12.45	-14.61/-15.20	-15.39/-14.26	-14.75/-14.50
θ(180°)	-15.28/-16.12	-15.35/-15.24	-16.24/-15.19	-16.08/-16.01	-15.64/-15.85	-15.03/-14.33	-14.77/-15.03	-14.78/-15.24	-15.39/-15.63	-14.82/-13.60	-14.34/-14.61	-13.62/-15.26	-15.36/-14.29	-15.21/-15.45	-15.96/-14.09	-14.87/-14.85	-15.38/-15.91	-15.20/-15.16	-15.88/-15.58	-15.95/-15.32	-15.17/-15.77	-15.06/-15.20	-15.32/-13.88	
Freq(Hz)	5.885GPol.	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°)	-1.71/-1.54	-1.51/-1.88	-2.22/-1.91	-1.86/-2.27	-2.93/-3.00	-2.46/-1.78	-1.90/-1.94	-1.67/-1.38	-1.38/-1.26	-1.30/-1.22	-1.09/-0.78	-0.49/-0.39	-0.58/-0.70	0.03/-0.33	-0.42/-0.69	-1.10/-1.12	-1.41/-1.98	-2.00/-1.74	-1.73/-1.57	-1.98/-2.51	-2.70/-2.74	-2.84/-3.72	-3.70/-3.72	-4.14/-3.35
θ(7.5°)	0.77/0.99	1.36/1.59	1.72/1.76	1.79/1.58	1.35/1.16	1.17/1.11	0.84/0.26	-0.63/-1.61	-2.80/-3.98	-5.31/-6.06	-6.10/-5.53	-4.20/-2.39	-1.56/-1.52	-1.73/-1.24	-0.67/-0.89	-1.20/-1.12	-1.20/-0.93	-1.15/-1.26	-1.18/-1.17	-1.37/-1.41	-1.54/-1.36	-0.84/-0.67	-0.39/0.37	0.64/0.69
θ(15°)	1.46/1.75	2.04/2.16	1.89/1.67	1.06/0.29	-0.64/-0.23	-0.28/-0.31	-3.09/-3.23	-4.05/-5.74	-9.34/-11.78	-9.24/-5.85	-4.10/-3.39	-3.35/-3.35	-3.07/-2.90	-2.62/-2.06	-2.02/-2.15	-2.26/-2.95	-3.97/-4.95	-5.55/-4.94	-3.65/-2.41	-1.96/-1.76	-2.16/-2.39	-2.06/-1.17	-0.47/0.42	1.15/1.10
θ(22.5°)	1.26/2.07	2.55/2.54	2.10/2.27	0.65/0.41	0.61/0.68	-0.02/-0.55	-1.36/-2.25	-3.35/-5.37	-9.47/-10.83	-6.55/-6.51	-10.67/-7.61	-1.99/0.30	-0.18/-1.86	-3.34/-4.54	-8.83/-7.21	-7.08/-5.91	-5.47/-4.30	-2.89/-2.04	-2.22/-2.25	-2.75/-2.60	-2.31/-2.33	-0.34/-0.04	0.28/0.62	0.77/1.02
θ(30°)	-0.84/1.38	1.71/1.36	1.45/1.94	2.70/3.18	3.08/2.88	1.82/-0.05	-1.46/-2.60	-6.91/-9.82	-6.60/-6.14	-3.48/-3.28	-6.45/-4.07	-0.35/-0.00	-1.66/-0.73	0.82/0.87	0.92/-3.38	-4.08/-3.79	-3.24/-3.08	-2.80/-3.10	-3.82/-3.15	-1.56/-0.28	0.61/-0.02	-1.56/-0.82	0.13/0.33	-0.37/-1.17
θ(37.5°)	-2.50/0.41	-1.05/-1.09	0.44/1.30	0.22/-0.56	-0.62/0.07	2.50/0.85	-2.68/-1.85	-2.50/-3.31	-0.90/-2.67	-1.07/-1.32	-9.21/-8.37	-7.14/0.39	3.37/3.54	1.35/-2.24	-2.58/-0.42	1.18/1.28	-0.45/-1.41	-1.27/-2.50	-7.07/-6.44	-2.98/-1.16	1.48/2.42	0.54/-0.44	0.26/0.53	-1.68/-6.19
θ(45°)	-3.04/-0.98	-4.67/-2.10	-0.89/-1.06	-0.23/0.74	-0.05/-2.84	-1.49/1.64	1.66/1.15	0.27/-2.08	-1.81/-2.60	-2.00/-3.27	-8.80/-4.70	-3.26/-7.16	1.76/1.45	0.86/0.48	0.11/0.78	2.72/2.82	0.26/-1.66	-2.63/-3.47	-8.29/-8.23	-3.08/-1.65	-1.66/0.06	0.93/1.44	-2.96/-7.40	-2.36/-9.20
θ(52.5°)	-4.05/-0.90	-1.90/-4.15	-12.00/-7.79	-2.72/-1.43	0.50/1.57	0.80/1.64	2.89/2.40	-1.48/-4.31	-5.09/-7.67	-5.02/-3.17	-3.24/-2.77	-4.46/-4.91	-0.46/-1.89	0.77/-2.43	-1.87/1.70	2.70/3.65	3.15/2.13	0.97/0.82	-3.22/-6.50	-4.40/-1.00	-2.05/-3.56	-0.86/-1.27	-5.29/-0.79	-2.37/-8.50
θ(60°)	-3.81/1.81	1.36/-2.82	-0.35/-0.65	-1.60/-0.29	-7.88/-3.27	4.07/3.32	2.95/4.32	0.10/-3.13	-0.68/-0.53	-1.99/-0.24	-2.66/-3.33	-3.25/-4.64	-0.55/-0.64	-1.56/-4.34	-0.25/2.68	2.89/3.63	3.36/3.30	2.27/2.89	1.24/0.09	-1.67/-0.60	-1.02/-2.76	-3.30/0.68	-5.44/-3.10	-1.34/-5.35
θ(67.5°)	-4.69/5.58	3.71/2.20	3.27/2.15	-0.69/-0.90	-2.41/2.32	5.19/3.21	3.37/3.34	0.46/-1.10	-0.88/-1.75	-0.88/-0.94	-4.73/-0.31	-8.12/0.98	-1.33/-6.60	-12.83/-5.29	0.52/0.28	0.24/2.36	2.42/2.36	1.91/2.93	2.45/2.66	1.12/-0.27	-5.00/-0.80	-2.60/-6.42	-0.86/-2.46	
θ(75°)	-6.70/2.61	2.94/2.92	2.97/1.90	-1.05/0.69	1.21/2.95	3.65/3.15	3.20/3.18	-0.59/-1.49	-9.19/-1.55	-0.96/-2.60	-2.74/0.56	-1.71/-1.21	0.35/-4.99	-10.53/-10.84	-1.73/-2.04	-5.29/0.49	2.83/0.51	0.62/1.23	1.65/3.23	2.38/-0.18	-3.45/-1.17	-7.07/1.45	-0.42/-9.27	-0.24/-1.43
θ(82.5°)	-10.77/0.66	-0.37/-1.17	0.46/-0.22	-4.35/0.06	1.25/1.55	1.93/1.51	2.33/1.94	-1.18/-1.85	-8.43/-0.27	-2.02/-2.11	-5.42/-0.27	-9.71/-1.14	-5.27/-3.39	-7.60/-5.84	-4.62/-2.84	-8.73/-1.03	2.37/-1.36	-1.48/-2.07	-0.19/2.35	1.85/-0.54	-5.99/1.76	-6.61/-5.12	-0.79/-11.97	-0.88/-2.65
θ(90°)	-12.42/-2.69	-2.86/-0.83	-1.69/-1.96	-5.21/-1.25	-0.33/-1.67	-0.61/-1.14	0.30/-0.63	-3.30/-2.91	-6.79/-2.90	-3.53/-3.55	-3.43/-1.19	-4.88/-4.23	-4.16/-3.77	-5.67/-9.72	-6.14/-3.60	-6.15/-4.09	0.39/-3.02	-3.58/-4.75	-4.57/-1.53	-1.13/-1.80	-7.98/-0.46	-8.12/-0.01	-2.30/-12.11	-2.61/-4.38
θ(97.5°)	-11.33/-4.59	-4.76/-2.41	-3.30/-3.35	-0.73/-2.75	-1.86/-3.81	-3.61/-4.22	-1.67/-2.07	-5.03/-3.92	-9.37/-4.23	-5.84/-4.37	-6.01/-2.87	-11.01/-6.65	-6.73/-3.39	-10.94/-8.24	-7.19/-3.48	-6.40/-5.23	-1.56/-6.01	-6.39/-7.99	-8.41/-7.74	-5.82/-4.35	-10.49/-2.66	-12.60/-3.17	-4.87/-9.54	-0.58/-7.30
θ(105°)	-10.96/-9.87	-6.43/-6.87	-7.72/-9.59	-10.66/-2.80	-2.29/-4.17	-6.21/-6.13	-5.04/-4.24	-6.95/-4.54	-10.54/-4.38	-7.11/-5.10	-6.62/-3.46	-6.47/-8.61	-11.07/-8.67	-7.14/-9.78	-8.51/-4.36	-6.21/-6.04	-2.44/-8.04	-6.20/-7.68	-9.40/-10.92	-9.43/-6.74	-15.29/-4.88	-11.07/-5.54	-6.89/-7.17	-6.01/-8.38
θ(112.5°)	-10.10/-16.01	-9.42/-13.35	-10.56/-14.04	-10.06/-5.31	-3.75/-4.74	-7.04/-6.47	-5.82/-4.20	-7.23/-4.93	-12.16/-6.15	-10.07/-6.65	-8.44/-8.12	-9.70/-7.22	-10.82/-11.71	-11.60/-7.39	-6.96/-5.09	-8.14/-9.71	-6.10/-6.44	-7.00/-7.05	-9.10/-7.51	-9.81/-6.00	-12.14/-5.36	-13.82/-10.23	-7.18/-8.78	-7.76/-7.47
θ(120°)	-7.97/-8.73	-12.24/-16.17	-11.55/-15.04	-8.87/-10.52	-8.35/-10.47	-10.53/-7.85	-7.05/-7.62	-8.66/-7.02	-12.16/-7.01	-9.21/-6.46	-9.46/-7.93	-9.24/-10.58	-7.03/-9.62	-11.26/-11.25	-13.51/-10.27	-8.35/-8.61	-10.00/-7.50	-8.87/-7.83	-9.39/-7.88	-11.73/-8.88	-11.94/-6.29	-15.36/-14.34	-11.70/-13	



Antenna Pattern_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

Θ(127.5°)	-6.72/-13.03	-9.53/-12.09	-12.47/-15.20	-11.52/-12.45	-10.54/-13.69	-12.95/-9.04	-14.82/-8.64	-12.91/-9.63	-8.54/-12.38	-11.98/-11.96	-6.73/-9.30	-8.64/-11.18	-14.53/-9.57	-14.45/-7.87	-12.11/-8.49	-5.80/-6.52	-12.35/-8.95	-5.59/-7.16	-10.89/-13.35	-12.78/-6.91	-3.24/-10.06	-15.57/-8.35	-8.07/-11.81	-9.20/-12.01
Θ(135°)	-14.34/-11.96	-13.87/-15.69	-14.82/-14.91	-14.63/-14.34	-8.50/-13.73	-12.04/-8.37	-10.37/-10.64	-11.13/-10.13	-10.09/-11.37	-12.42/-10.68	-6.65/-9.62	-7.49/-10.62	-13.78/-12.51	-15.88/-10.13	-15.31/-7.89	-5.75/-9.18	-14.88/-12.62	-10.51/-13.86	-7.75/-8.95	-9.83/-4.97	-4.90/-7.17	-10.78/-7.76	-8.86/-12.25	-15.37/-12.01
Θ(142.5°)	-14.63/-14.74	-14.80/-15.83	-14.14/-10.20	-9.09/-12.46	-14.27/-8.21	-8.66/-14.96	-8.23/-13.08	-11.44/-12.16	-15.39/-10.16	-8.16/-9.72	-6.53/-9.07	-12.34/-13.88	-14.11/-13.00	-12.16/-9.59	-9.43/-9.99	-11.72/-13.41	-9.02/-15.35	-11.77/-10.62	-14.97/-11.18	-12.49/-11.10	-3.36/-11.50	-10.42/-14.41	-11.70/-10.86	-13.56/-14.16
Θ(150°)	-9.60/-11.91	-12.46/-14.95	-15.27/-14.23	-13.29/-16.40	-10.64/-9.22	-13.18/-11.75	-10.88/-14.23	-12.58/-10.24	-12.58/-11.94	-10.57/-10.17	-10.30/-11.73	-12.04/-13.47	-12.04/-13.14	-14.06/-15.36	-15.10/-15.26	-14.17/-16.11	-14.69/-14.58	-12.01/-10.97	-13.56/-13.12	-13.83/-11.58	-14.15/-14.91	-15.22/-10.72	-9.26/-14.40	-10.32/-12.12
Θ(157.5°)	-13.21/-11.64	-9.71/-10.66	-10.92/-14.19	-13.03/-11.65	-11.78/-12.91	-11.45/-8.60	-8.72/-11.44	-11.89/-10.15	-12.29/-13.37	-11.17/-9.61	-13.61/-16.04	-14.78/-14.52	-14.98/-13.75	-13.51/-13.63	-15.48/-13.48	-12.25/-12.24	-9.88/-8.19	-10.40/-15.91	-9.25/-1.97	-12.54/-14.95	-10.90/-11.94	-14.65/-13.84	-14.49/-13.58	-14.12/-14.67
Θ(165°)	-15.59/-14.73	-14.02/-12.05	-13.81/-13.66	-14.24/-15.14	-15.78/-15.93	-14.24/-12.99	-11.90/-10.96	-11.66/-12.30	-11.46/-11.27	-11.78/-14.54	-15.46/-15.71	-15.17/-15.41	-14.09/-11.77	-9.72/-8.84	-8.28/-8.27	-8.37/-8.84	-10.34/-9.00	-7.60/-7.81	-10.80/-12.29	-10.63/-11.46	-13.33/-14.81	-14.10/-15.31	-14.85/-15.25	
Θ(172.5°)	-15.39/-16.06	-15.14/-15.43	-14.60/-15.10	-15.40/-14.61	-12.40/-10.53	-9.59/-10.75	-11.45/-12.19	-12.29/-12.07	-11.76/-11.52	-10.33/-9.61	-9.88/-10.83	-11.69/-11.37	-11.72/-10.85	-10.24/-10.57	-11.03/-10.45	-10.74/-10.37	-9.96/-9.59	-10.10/-10.87	-11.92/-13.21	-14.07/-13.18	-13.67/-15.00	-15.64/-15.12	-15.74/-14.29	-11.84/-12.02
Θ(180°)	-10.12/-10.63	-9.94/-9.65	-9.28/-10.35	-11.29/-12.12	-13.14/-13.74	-13.77/-14.45	-14.80/-14.62	-14.96/-15.42	-14.21/-12.97	-13.25/-13.59	-13.61/-12.77	-11.73/-12.75	-14.56/-14.59	-14.49/-9.94	-9.90/-9.52	-9.12/-8.77	-8.40/-8.75	-8.98/-9.16	-9.52/-10.06	-9.22/-9.60	-9.99/-9.32	-10.04/-10.27	-9.61/-10.20	-9.06/-8.06
Freq(Hz)	6.995GPol.	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°)	-5.84/-6.00	-6.63/-6.95	-6.08/-5.80	-5.17/-5.80	-6.86/-6.99	-6.75/-6.80	-6.98/-7.16	-7.43/-7.74	-8.45/-8.89	-9.53/-9.72	-10.01/-10.03	-10.71/-10.52	-10.33/-11.09	-10.06/-8.63	-8.56/-6.91	-6.89/-7.00	-5.90/-5.16	-4.68/-4.28	-4.72/-5.09	-4.74/-4.59	-4.16/-3.61	-3.57/-3.40	-2.66/-2.86	-3.45/-3.41
Θ(7.5°)	-10.49/-11.60	-11.97/-13.55	-14.17/-13.01	-9.06/-9.84	-8.59/-7.88	-7.47/-6.93	-6.86/-6.60	-6.47/-6.54	-5.20/-4.60	-4.32/-3.27	-3.78/-2.95	-2.32/-2.27	-1.64/-1.92	-1.64/-1.99	-1.99/-1.91	-2.97/-2.26	-2.54/-2.23	-2.22/-2.94	-3.86/-4.07	-5.88/-6.90	-7.32/-7.75	-8.93/-9.96	-9.26/-10.17	-11.52/-11.52
Θ(15°)	-6.68/-6.31	-5.75/-5.15	-4.16/-3.68	-3.47/-3.22	-3.49/-4.54	-6.31/-6.88	-5.80/-3.94	-2.83/-2.78	-2.99/-2.20	-0.95/-0.13	0.27/-0.04	-0.42/-0.95	-0.98/-0.74	-0.71/-0.08	0.26/-0.01	-0.73/-1.63	-3.22/-4.50	-3.87/-4.68	-4.44/-4.54	-3.92/-5.28	-4.68/-3.36	-2.52/-2.75	-4.24/-7.08	-9.66/-9.08
Θ(22.5°)	-3.75/-4.56	-5.29/-5.15	-4.75/-4.44	-4.45/-6.19	-9.32/-10.12	-9.60/-9.08	-5.86/-3.48	-2.51/-3.32	-3.13/-0.88	0.25/-0.11	-1.23/-2.32	-3.03/-3.35	-2.88/-2.79	-2.74/-2.61	-2.34/-3.17	-3.74/-2.88	-2.80/-2.55	-3.16/-4.01	-3.15/-1.88	-2.19/-4.43	-3.28/-1.13	-1.00/-3.63	-7.42/-7.60	-5.36/-3.67
Θ(30°)	-4.94/-3.99	-2.85/-3.41	-2.92/-1.58	-1.60/-3.53	-5.59/-3.09	-1.19/-1.40	-2.51/-2.02	-0.64/-0.90	-1.72/-0.32	-0.45/-5.17	-3.58/-1.89	-3.01/-4.66	-4.90/-4.43	-2.18/-1.50	-1.70/-1.51	-1.25/-1.50	-2.34/-2.32	-1.13/-0.72	0.87/-0.67	0.12/-1.73	-0.61/-1.74	-4.54/-8.53	-7.71/-6.06	-6.36/-6.29
Θ(37.5°)	-2.90/-5.21	-6.48/-13.86	-11.94/-7.63	-7.16/-5.49	-3.68/-0.92	1.580.98	-1.34/-1.00	0.11/0.70	-1.08/-0.03	-1.37/-3.20	-1.96/-4.74	-4.04/-2.49	-2.14/-1.76	-1.47/-1.97	-0.77/0.64	1.68/2.09	2.47/1.77	1.83/3.25	3.10/2.99	2.25/0.37	-2.41/-3.40	-1.53/-1.09	-3.69/-6.28	-3.33/-1.94
Θ(45°)	-4.12/-3.47	-7.72/-8.85	-9.64/-7.28	-10.60/-9.45	-1.17/-2.59	-0.86/-1.60	1.15/2.08	1.63/0.92	-0.98/-0.19	-0.24/0.60	-1.34/-2.64	1.20/-1.15	-0.09/-2.31	-2.27/-2.60	0.00/-0.93	3.06/3.39	4.23/3.37	1.50/2.69	2.53/2.53	1.70/0.77	-3.22/-2.78	2.28/2.51	-0.94/-1.09	-1.73/-4.25
Θ(52.5°)	-0.12/-1.02	-6.11/-5.76	-8.89/-8.29	-8.82/-3.65	-1.02/-2.40	-1.83/-1.96	2.14/2.43	0.69/-1.11	-0.22/0.40	-0.17/-1.19	-2.12/-1.97	-2.53/-1.92	-4.83/-1.91	0.74/0.71	3.19/3.37	4.08/4.01	3.13/2.34	2.27/2.02	1.15/0.11	-3.63/-1.74	0.32/2.26	0.81/0.70	-5.86/-5.63	
Θ(60°)	-1.92/-2.40	-1.01/-1.85	-5.62/-5.56	-9.57/-7.05	-9.80/-6.04	-0.44/4.48	4.26/4.50	1.42/0.54	-2.48/0.71	0.59/0.64	0.35/0.32	0.76/0.97	-3.53/-1.82	-4.79/-1.93	0.20/-0.86	1.41/2.91	3.87/3.89	4.96/3.20	3.19/2.15	0.99/-0.07	-1.53/-2.38	-3.59/-1.91	1.14/-0.55	-4.21/-2.78
Θ(67.5°)	-1.29/0.02	2.25/-0.05	-8.61/-7.09	-10.13/-8.38	-8.13/-1.14	1.55/3.51	0.96/2.04	-0.63/0.40	-4.25/0.01	0.13/-1.22	-1.35/-0.69	2.80/-4.05	-7.88/-0.73	-1.86/-6.67	-7.45/0.05	1.47/-0.35	2.38/2.79	4.52/3.45	2.03/-0.40	-1.27/-1.36	-0.08/-2.10	-2.21/0.81	-0.02/-3.44	-1.55/-6.66
Θ(75°)	-1.59/-0.61	3.70/-0.67	-4.25/-5.61	-7.55/-10.03	-4.97/-0.14	-0.24/0.92	-1.19/0.25	-4.84/-2.19	-3.62/-1.29	-0.58/-3.61	-1.09/-1.77	-1.50/-1.47	-8.17/-13.14	-5.86/-7.65	-1.49/-1.20	1.62/-6.00	-0.01/-9.6	4.10/3.57	2.44/-4.06	-7.24/-1.25	0.71/-1.87	-0.10/-2.05	-2.81/-4.06	-0.81/-4.58
Θ(82.5°)	-4.60/-1.63	3.14/-1.64	-3.13/-4.63	-7.58/-12.04	-4.06/-2.80	-3.40/-0.64	-2.16/-0.15	-2.84/-4.77	-5.58/-4.01	-3.49/-4.77	-1.37/-4.06	-2.08/-14.73	-12.69/-12.25	-6.78/-6.27	-9.12/-1.52	0.19/-5.65	-1.96/-1.54	2.81/2.61	0.82/-6.54	-11.31/0.82	-1.45/-1.03	0.97/-1.83	-2.72/-6.55	-2.11/-7.02
Θ(90°)	-9.68/-15.02	0.90/-9.59	-7.23/-5.10	-9.64/-13.04	-5.60/-4.55	-3.96/-1.70	-2.99/-1.46	-2.46/-6.53	-7.80/-5.31	-5.68/-5.67	-2.43/-2.17	-3.09/-12.66	-12.28/-9.63	-12.69/-5.67	-10.14/-3.78	-1.88/-4.67	-3.09/-6.02	0.79/0.00	-2.09/-10.02	-11.46/-15.3	-5.26/-2.13	0.25/-4.32	-4.40/-7.49	-1.94/-8.71
Θ(97.5°)	-10.75/-3.29	-2.33/-3.97	-10.91/-8.72	-11.69/-15.77	-10.92/-8.07	-4.60/-4.57	-6.11/-0.38	-4.60/-8.29	-8.02/-8.56	-9.00/-5.18	-2.86/-5.21	-8.96/-10.28	-10.26/-13.74	-6.86/-7.64	-7.93/-5.28	-2.74/-5.20	-3.04/-1.83	-6.68/-1.83	-4.46/-10.06	-6.73/-7.14	-12.15/-6.23	-3.86/-10.07	-7.51/-5.99	-3.11/-8.81
Θ(105°)	-7.65/-6.78	-4.93/-4.13	-9.95/-13.43	-12.31/-13.64	-10.19/-9.52	-6.98/-8.23	-15.08/-8.23	-8.92/-9.32	-7.71/-10.23	-9.73/-6.70	-5.45/-4.95	-11.50/-12.87	-10.06/-13.97	-10.38/-7.62	-11.63/-6.56	-5.78/-5.70	-5.24/-2.96	-0.60/-1.85	-3.39/-11.14	-7.51/-9.27	-9.29/-11.63	-6.36/-11.07	-9.15/-13.51	-5.36/-8.20
Θ(112.5°)	-11.73/-9.67	-10.07/-5.82	-15.26/-14.12	-13.60/-10.20	-8.17/-10.09	-8.35/-7.84	-9.63/-8.82	-5.79/-6.82	-6.82/-16.01	-9.56/-5.73	-9.26/-10.36	-8.97/-10.18	-11.61/-9.63	-6.29/-8.77	-11.39/-9.51	-4.42/-4.61	-8.19/-5.30	-3.25/-6.41	-9.62/-13.02	-7.00/-10.66	-9.62/-9.02	-14.87/-12.25	-12.71/-16.01	-3.97/-11.45
Θ(120°)	-12.04/-9.80	-11.87/-10.70	-14.81/-13.30	-12.76/-12.01	-8.92/-12.19	-13.01/-0.07	-7.20/-9.49	-8.44/-14.13	-12.79/-13.82	-7.93/-8.16	-9.86/-10.04	-14.18/-11.92	-9.18/-10.77	-10.98/-14.85	-11.81/-12.31	-6.97/-7.24	-7.87/-9.74	-4.25/-5.93	-10.30/-12.72	-7.04/-12.59	-8.48/-7.79	-11.77/-13.91	-11.39/-11.25	-8.25/-11.43
Θ(127.5°)	-11.24/-12.63	-9.02/-14.16	-15.98/-12.62	-14.80/-11.15	-9.51/-15.15	-11.50/-13.11	-12.78/-13.30	-12.14/-12.20	-11.28/-14.06	-9.96/-7.59	-11.42/-12.72	-10.59/-15.13	-10.91/-13.23	-8.01/-15.53	-10.09/-11.36	-5.72/-4.35	-13.75/-6.57	-5.52/-4.52	-8.16/-12.39	-8.78/-12.13	-7.54/-10.60	-10.42/-8.62	-6.90/-12.58	-7.59/-12.39
Θ(135°)	-11.93/-14.00	-10.62/-11.99	-13.60/-13.67	-16.26/-11.99	-14.63/-13.99	-9.25/-11.74	-11.64/-11.32	-8.92/-10.88	-10.71/-8.82	-10.56/-8.16	-13.84/-11.85	-15.85/-11.26	-13.14/-8.65	-12.54/-11.86	-14.84/-11.32	-5.76/-5.34	-10.12/-14.13	-8.82/-7.56	-11.22/-9.71	-7.38/-6.15	-9.56/-6.28	-10.91/-6.79	-10.05/-11.16	-15.92/-8.99
Θ(142.5°)	-13.20/-15.02	-13.19/-13.93	-9.50/-11.97	-14.14/-12.65	-8.89/-8.74	-15.70/-7.02	-13.25/-13.23	-15.48/-11.93	-8.69/-7.57	-14.99/-9.19	-14.14/-10.15	-11.73/-14.36	-15.82/-11.52	-13.98/-14.01	-14.75/-13.28	-12.25/-9.52	-15.02/-11.23	-9.71/-11.22	-10.11/-12.84	-9.56/-6.22	-6.40/-10.42	-12.28/-11.81	-10.53/-13.54	-12.50/-14.79
Θ(150°)	-16.11/-14.20	-9.56/-9.81	-14.28/-15.63	-14.91/-15.86	-15.19/-15.63	-13.86/-13.93	-15.81/-11.39	-10.91/-11.72	-11.43/-10.83	-11.75/-14.99	-15.33/-13.13	-14.27/-14.09	-13.91/-15.30	-15.44/-14.41	-11.63/-14.54	-14.85/-14.51	-13.38/-13.07	-10.89/-13.98	-9.69/-15.44	-13.63/-12.37	-11.52/-11.56	-8.01/-10.36	-15.55/-14.94	
Θ(157.5°)	-14.47/-12.65	-10.59/-11.41	-15.59/-15.47	-11.98/-10.04	-10.48/-12.60	-15.01/-15.17	-15.00/-14.71	-14.67/-14.15	-11.48/-14.19	-12.50/-16.04	-14.91/-14.69	-13.47/-13.54	-14.48/-14.44	-13.57/-15.87	-15.02/-13.30	-15.51/-14.37	-14.65/-12.40	-8.19/-7.82	-11.79/-13.19	-9.17/-9.68	-9.36/-8.81	-7.52/-9.31	-13.34/-15.26	-15.07/-15.26
Θ(165°)	-12.75/-10.68	-9.70/-9.61	-11.32/-13.50	-14.88/-13.70	-12.97/-12.02	-10.80/-10.92	-12.93/-15.47	-15.09/-11.29	-10.91/-11.04	-12.82/-14.93	-14.77/-15.08	-15.66/-15.35	-14.34/-14.66	-15.37/-15.83	-14.44/-11.78	-10.17/-7.75	-7.44/-10.45	-12.48/-7.50	-4.59/-4.60	-6.17/-7.55	-7.32/-8.93	-12.41/-15.64	-15.21/-14.39	
Θ(172.5°)	-12.97/-13.06	-12.58/-11.24	-9.17/-8.08	-7.55/-7.86	-9.09/-11.32	-14.19/-15.32	-15.65/-15.85	-14.26/-12.75	-12.41															



Antenna Pattern Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

θ (180°)	-10.56/-11.93	-13.78/-13.75	-12.06/-12.38	-13.29/-12.98	-13.00/-12.59	-12.40/-12.39	-12.10/-12.81	-12.65/-12.23	-10.95/-11.36	-12.19/-12.08	-11.93/-12.05	-13.18/-14.37	-13.88/-14.58	-13.38/-13.74	-13.52/-13.00	-13.97/-13.34	-12.41/-13.40	-12.47/-10.25	-9.85/-11.19	-11.64/-10.94	-11.57/-11.75	-12.08/-13.19	-13.29/-10.94	-9.53/-9.97
Freq(Hz)	6.175GPol.	Total/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°)	-0.350-19	0.1770.00	0.134/-0.07	-0.31/-0.75	-1.39/-2.25	-2.13/-1.74	-2.23/-2.61	-2.60/-2.53	-3.24/-3.72	-3.89/-3.86	-3.70/-3.95	-4.45/-4.55	-4.74/-4.14	-3.42/-2.20	-1.43/-1.03	-0.89/-0.81	-0.59/-0.55	-0.85/-0.64	-0.45/-0.25	-0.47/-0.22	0.09/-0.24	0.01/-0.13	0.28/-0.48	0.47/-0.40
θ (7.5°)	-9.88/-9.21	-8.53/-8.03	-8.14/-7.67	-7.84/-8.10	-9.06/-9.50	-7.69/-5.35	-3.83/-3.71	-3.07/-2.20	-1.68/-1.08	-0.42/-0.47	-0.72/-0.70	-1.12/-1.20	-1.39/-1.67	-1.54/-1.24	-0.86/-0.59	-0.37/-0.28	-0.28/-0.19	-0.48/-0.66	-1.06/-1.59	-2.42/-3.42	-4.47/-5.20	-6.20/-7.22	-7.63/-8.35	-8.16/-8.16
θ (15°)	-9.92/-8.16	-10.06/-9.48	-8.60/-9.72	-12.36/-12.41	-9.49/-6.94	-3.78/-2.50	-1.55/-1.35	-2.08/-1.47	-1.43/-1.39	-2.42/-3.90	-5.62/-7.75	-11.89/-13.01	-11.16/-11.00	-11.84/-9.27	-6.66/-4.63	-2.87/-1.72	-0.57/-0.06	-0.59/-0.75	-0.71/-0.20	-2.01/-0.02	0.30/-0.12	-0.50/-0.67	-2.05/-3.87	
θ (22.5°)	-5.14/-10.31	-15.07/-8.05	-3.93/-3.72	-4.29/-3.66	-2.17/-1.27	-1.10/-1.67	-2.26/-2.28	-2.83/-3.58	-4.23/-4.20	-3.57/-3.93	-4.61/-4.10	-3.83/-3.27	-2.19/-1.76	-2.01/-3.41	-6.32/-7.32	-5.50/-3.79	-2.19/-0.79	0.48/-0.52	-0.46/-1.54	-2.26/-3.38	-4.89/-5.78	-7.54/-7.01	-5.32/-4.19	-4.12/-4.68
θ (30°)	0.06/-0.05	-2.80/-4.18	-0.70/-0.16	-0.55/-0.06	-0.06/-1.36	-2.00/-0.35	0.40/-0.20	0.05/-0.90	1.71/-1.73	1.57/-1.36	1.09/-0.30	-2.80/-8.53	-4.21/-1.03	-0.70/-2.78	-7.38/-7.13	-1.94/-0.68	-2.86/-5.26	-2.12/-1.26	-2.18/-1.03	0.98/-0.99	-0.13/-0.53	-0.26/-0.10	0.53/-0.54	1.21/-1.29
θ (37.5°)	-0.47/-1.27	2.07/-1.50	2.46/-1.22	-1.26/-0.15	0.21/-0.66	1.53/-0.77	1.42/-0.05	-1.02/-0.17	1.19/-1.96	1.87/-2.04	2.76/-2.48	1.00/-3.84	-4.86/-3.48	-4.40/-3.29	-2.98/-1.33	-0.34/-0.82	-4.36/-10.32	-0.33/-0.54	-2.97/-0.16	1.01/-2.96	-6.54/-5.92	-6.23/-3.47	-1.27/-1.34	1.03/-0.66
θ (45°)	2.38/-2.92	3.11/-1.42	2.89/-1.01	-0.85/-2.01	0.95/-1.81	1.59/-0.85	2.13/-0.40	-0.51/-0.56	0.03/-1.00	1.12/-1.78	1.95/-0.34	-0.39/-0.64	-0.60/-0.48	-3.32/-3.88	-1.61/-0.04	0.36/-5.07	-2.23/-3.52	-2.43/-0.60	-2.71/-2.27	2.84/-0.17	0.07/-0.81	-1.38/-1.07	1.19/-2.90	4.42/-2.91
θ (52.5°)	2.64/-3.50	3.25/-0.75	2.53/-0.28	2.30/-3.37	1.29/-1.71	-3.44/-0.86	0.28/-1.96	0.17/-0.95	-0.97/-0.60	1.97/-0.85	-3.17/-1.47	-1.47/-1.41	-1.18/-0.76	-1.08/-0.26	2.04/-3.14	1.80/-1.86	-3.72/-1.18	-1.94/-3.76	3.15/-2.07	-2.19/-2.40	2.96/-2.90	2.96/-2.90	3.89/-3.46	
θ (60°)	1.23/-2.59	1.82/-0.36	1.69/-0.08	0.46/-2.74	1.73/-1.19	-7.46/-2.36	-5.69/-1.40	-0.06/-2.24	3.66/-1.05	0.59/-1.13	0.45/-1.31	-1.61/-3.88	-2.32/-4.47	-3.08/-0.59	1.67/-0.49	2.62/-0.13	0.52/-2.91	-3.78/-5.15	-3.70/-1.23	0.02/-0.44	1.11/-1.36	-4.12/-2.50	1.60/-3.69	3.68/-2.46
θ (67.5°)	1.77/-2.58	0.51/-0.76	0.63/-0.59	3.43/-1.37	1.80/-0.64	-10.05/-6.65	-4.36/-0.54	0.08/-1.87	1.25/-0.84	2.21/-0.72	-1.86/-2.64	-4.09/-1.11	-0.28/-8.33	-7.26/-0.53	2.27/-0.24	2.67/-0.12	-1.15/-2.74	-4.43/-2.14	-3.03/-1.16	2.24/-1.88	-0.25/-2.22	-5.19/-4.60	2.59/-0.07	6.65/-4.13
θ (75°)	1.70/-2.48	0.53/-1.63	-0.82/-1.28	1.93/-0.54	1.61/-4.40	-8.08/-10.60	-2.16/-0.07	-0.61/-0.18	-4.21/-3.83	0.96/-0.36	-3.48/-1.63	-5.68/-5.19	-1.89/-2.23	-7.42/-4.38	1.01/-2.05	1.14/-1.06	-4.80/-1.00	-2.34/-0.82	-1.91/-2.76	5.37/-3.93	1.18/-1.93	-5.83/-5.49	3.99/-6.61	7.50/-5.05
θ (82.5°)	0.47/-1.36	-0.74/-2.73	-1.62/-2.66	-1.02/-2.19	1.18/-12.73	-7.82/-6.96	-1.59/-1.52	-2.10/-2.50	-0.91/-2.62	-0.62/-3.53	-6.13/-10.30	-11.20/-4.17	-4.27/-8.93	-3.02/-5.14	0.46/-1.79	-0.58/-0.56	-6.89/-0.23	-0.67/-1.81	-0.79/-2.97	5.66/-3.45	-2.59/-1.61	-6.64/-7.43	3.53/-5.55	6.33/-9.99
θ (90°)	-0.94/-0.77	-2.01/-4.50	-3.21/-4.90	-2.02/-3.90	-0.58/-10.85	-8.62/-5.71	-1.27/-2.03	-3.12/-3.86	-9.41/-3.65	-1.73/-4.34	-5.87/-8.47	-12.15/-12.47	-6.05/-8.93	-6.07/-3.18	-3.86/-1.19	-2.24/-1.11	-6.10/-2.61	-1.52/-0.19	-1.41/-2.58	3.48/-2.84	2.05/-1.46	-8.86/-11.18	0.86/-3.26	3.53/-2.36
θ (97.5°)	-2.88/-2.60	-4.56/-3.73	-6.24/-6.48	-4.90/-1.51	-4.09/-7.80	-10.48/-4.72	-1.87/-3.28	-4.35/-4.69	-7.09/-3.62	-3.97/-7.51	-9.06/-10.53	-15.40/-7.89	-11.44/-11.78	-6.03/-4.71	-5.12/-0.54	-3.96/-3.50	-5.47/-6.17	-4.67/-3.29	-5.02/-0.60	-1.49/-1.44	-2.46/-3.20	-12.51/-12.15	-2.48/-2.70	0.09/-0.52
θ (105°)	-4.26/-4.75	-8.89/-9.25	-6.04/-8.26	-7.21/-6.67	-6.84/-8.13	-9.81/-6.82	-4.93/-6.59	-4.51/-4.24	-8.30/-4.87	-4.55/-6.40	-8.38/-11.40	-14.94/-13.07	-7.84/-13.03	-12.63/-3.57	-7.20/-3.24	-2.85/-5.04	-5.33/-4.83	-6.60/-5.16	-7.86/-6.12	-6.19/-6.46	-8.16/-7.03	-12.26/-12.27	-4.14/-1.91	-2.64/-2.02
θ (112.5°)	-3.81/-7.11	-8.98/-13.91	-11.83/-11.33	-10.43/-7.24	-12.52/-11.70	-9.81/-7.51	-5.73/-8.30	-7.16/-7.28	-9.79/-6.38	-6.68/-8.13	-9.46/-12.16	-15.16/-10.05	-14.96/-14.99	-12.09/-6.26	-9.02/-3.46	-3.71/-5.53	-7.51/-9.91	-8.42/-4.77	-7.82/-4.20	-3.64/-3.00	-5.54/-7.23	-12.25/-11.13	-4.12/-3.51	-5.12/-3.46
θ (120°)	-5.65/-10.77	-11.27/-14.32	-10.97/-13.72	-12.29/-11.31	-14.07/-10.78	-12.97/-10.83	-8.28/-11.35	-11.28/-7.82	-12.42/-7.38	-7.86/-10.04	-10.68/-12.33	-15.06/-14.64	-14.34/-15.67	-13.97/-7.81	-8.57/-9.89	-3.66/-11.24	-5.48/-8.70	-13.18/-8.48	-8.89/-3.99	-7.76/-8.62	-5.09/-0.97	-6.53/-13.92	-9.13/-7.63	-6.66/-6.58
θ (127.5°)	-10.67/-10.55	-18.21/-9.89	-12.83/-13.12	-10.22/-11.24	-15.11/-9.66	-12.91/-9.76	-8.87/-4.88	-9.83/-9.96	-12.42/-10.50	-7.81/-10.48	-13.92/-14.86	-16.18/-14.28	-15.76/-15.17	-12.95/-8.51	-9.41/-12.85	-4.70/-10.10	-9.80/-10.93	-15.03/-9.89	-12.70/-8.33	-13.54/-13.60	-10.62/-13.29	-9.77/-11.75	-13.17/-11.30	-7.22/-6.63
θ (135°)	-11.80/-15.10	-10.83/-10.47	-13.96/-12.41	-15.39/-15.03	-15.00/-10.57	-10.38/-10.97	-12.40/-10.85	-9.41/-12.25	-11.92/-11.76	-10.17/-11.56	-12.40/-14.12	-14.82/-12.34	-13.79/-13.46	-14.77/-12.79	-13.41/-14.87	-8.14/-8.96	-12.71/-9.02	-12.79/-8.88	-12.64/-7.84	-7.34/-9.35	-8.12/-10.14	-11.46/-8.75	-12.72/-11.89	-6.74/-7.57
θ (142.5°)	-11.33/-14.99	-10.38/-12.09	-13.35/-11.92	-13.74/-11.28	-10.28/-13.35	-11.59/-12.40	-11.67/-13.90	-12.20/-10.77	-13.26/-13.47	-9.78/-9.19	-12.28/-14.31	-14.52/-15.35	-15.61/-16.03	-14.82/-11.65	-8.55/-12.20	-11.58/-9.28	-15.40/-10.61	-12.20/-14.21	-9.35/-13.86	-11.18/-11.82	-14.13/-9.93	-13.01/-12.21	-14.69/-13.29	-7.06/-9.84
θ (150°)	-7.76/-13.88	-13.87/-13.83	-15.90/-13.86	-9.53/-11.72	-12.20/-15.36	-15.11/-13.82	-12.22/-11.38	-12.37/-11.67	-12.58/-11.83	-13.29/-15.00	-14.06/-15.60	-15.49/-13.16	-13.71/-12.76	-12.92/-15.55	-15.17/-11.12	-13.48/-11.81	-7.85/-12.03	-15.76/-13.59	-15.20/-15.42	-13.44/-14.88	-13.27/-13.12	-10.87/-9.04		
θ (157.5°)	-13.42/-14.75	-11.46/-12.29	-12.49/-15.22	-15.67/-15.66	-12.88/-11.17	-12.55/-15.49	-13.49/-10.18	-11.58/-13.96	-13.60/-11.04	-11.33/-12.78	-13.21/-12.79	-10.91/-11.79	-14.46/-14.58	-16.07/-14.69	-15.61/-14.53	-15.96/-14.59	-16.06/-14.42	-12.81/-13.86	-14.21/-15.44	-14.58/-15.09	-15.55/-14.97	-15.50/-14.35	-15.17/-15.50	-12.57/-9.83
θ (165°)	-11.64/-9.63	-11.35/-15.18	-14.55/-13.69	-13.00/-12.57	-11.39/-11.77	-15.19/-14.58	-13.46/-11.82	-11.83/-12.78	-14.76/-15.02	-16.14/-15.20	-14.08/-12.61	-10.69/-9.74	-9.91/-10.69	-13.22/-15.11	-15.26/-15.25	-15.10/-15.57	-14.95/-14.27	-11.90/-14.83	-15.04/-15.67	-15.14/-13.95	-13.93/-15.97	-14.75/-14.80	-12.20/-11.68	-10.79/-15.16
θ (172.5°)	-15.87/-14.53	-15.13/-13.13	-11.16/-14.16	-11.32/-11.52	-12.20/-13.76	-15.38/-15.26	-15.46/-15.47	-15.35/-13.40	-11.35/-11.31	-10.80/-13.40	-10.93/-11.69	-12.39/-14.02	-13.05/-14.19	-15.09/-14.93	-13.86/-13.10	-12.91/-15.13	-15.44/-15.01	-14.79/-15.27	-13.55/-14.87	-15.44/-15.25	-15.89/-13.73	-14.97/-13.66	-13.19/-13.68	-15.10/-15.68
θ (180°)	-16.17/-14.70	-13.80/-13.06	-14.50/-14.91	-14.56/-15.56	-15.86/-15.53	-15.86/-16.04	-15.13/-14.69	-14.68/-15.01	-14.63/-15.16	-15.92/-15.42	-15.38/-16.15	-14.84/-14.80	-15.11/-16.18	-15.35/-14.98	-14.51/-13.76	-13.36/-13.93	-14.56/-14.70	-15.17/-14.54	-13.50/-12.48	-11.32/-11.06	-10.79/-11.34	-11.49/-11.02	-10.59/-10.39	-10.27/-10.66
Freq(Hz)	6.475GPol.	Total/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°)	-4.19/-4.41	-4.17/-4.03	-3.63/-3.12	-2.41/-1.74	-1.17/-0.87	-1.43/-1.16	-0.78/-0.96	-0.52/-0.45	-0.86/-1.00	-0.91/-1.00	-1.26/-1.18	-0.99/-1.29	-1.65/-1.79	-1.40/-1.82	-2.63/-3.25	-3.48/-3.96	-4.34/-4.20	-3.49/-4.09	-4.76/-5.11	-4.63/-5.34	-5.25/-4.98	-4.78/-4.64	-5.67/-5.62	-5.72/-6.00
θ (7.5°)	-2.01/-2.38	-1.94/-1.80	-2.08/-2.44	-3.09/-3.80	-4.11/-5.00	-6.09/-5.97	-6.30/-6.45	-6.04/-5.29	-5.67/-6.16	-5.74/-5.30	-6.28/-7.07	-6.43/-7.27	-7.90/-7.26	-6.63/-6.46	-7.97/-8.48	-8.17/-7.79	-6.33/-4.44	-3.15/-1.87	-0.69/-0.34	-0.04/-0.30	-0.50/-0.80	-0.62/-1.12	-1.35/-1.79	-1.68/-1.55
θ (15°)	-4.63/-3.99	-2.76/-1.73	-1.43/-1.51	-2.08/-3.28	-4.46/-4.73	-5.69/-6.13	-5.69/-4.49	-4.90/-5.90	-6.79/-11.03	-8.72/-7.45	-5.49/-4.53	-6.80/-7.41	-7.91/-7.25	-3.81/-1.97	-1.31/-1.37	-1.74/-4.27	-9.57/-12.69	-4.91/-1.14	0.45/-0.68	0.01/-1.61	-3.11/-2.73	-3.59/-4.95	-5.57/-5.15	
θ (22.5°)	-1.89/-1.95	-1.92/-0.93	-0.86/-0.54	-0.21/-0.46	-1.77/-3.64	-4.67/-4.97	-3.76/-1.92	-1.40/-1.51	-2.03/-5.20	-10.69/-8.26	-3.63/-2.28	-8.55/-8.80	-8.74/-5.02	-3.37/-3.95	-6.58/-6.19	-4.34/-3.20	-5.22/-5.81	-2.23/-0.02	0.16/-1.93	-3.96/-2.45	-0.24/-0.75	1.33/-1.27	0.94/-0.23	-1.58/-2.33
θ (30°)	-0.33/-0.55	-0.41/-0.44	-0.62/-1.54	-																				



Antenna Pattern_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

Θ(30°)	-6.18/-9.81	-10.03/-6.43	-6.85/-8.95	-8.60/-3.87	-1.67/-9.49	0.40/-0.44	-2.98/-5.43	-4.62/-3.82	-3.77/-3.04	-3.22/-3.09	-2.00/-2.22	-1.96/-2.12	-2.69/-1.54	0.72/-0.57	-4.50/-5.08	-2.33/-0.97	-2.17/-4.64	-4.19/-3.03	-4.32/-7.10	-4.97/-1.43	-0.69/-1.60	-5.18/-13.53	-6.67/-3.32	-2.42/-4.27
Θ(37.5°)	-3.93/-8.50	-7.04/-4.46	-2.59/-3.76	-6.19/-3.19	-2.15/-3.05	-3.70/-4.78	-5.07/-2.70	-1.54/-4.82	-4.58/-4.03	-0.03/-0.71	-0.46/-2.15	-2.00/-2.44	-2.23/-2.55	-3.45/-5.64	-4.98/-2.90	-3.66/-5.66	-6.93/-6.57	-7.72/-5.05	-1.56/-2.27	-1.29/0.85	0.82/-1.36	-5.22/-5.22	-0.17/-1.54	1.33/-1.59
Θ(45°)	0.33/-3.40	-9.22/-4.47	-0.46/-6.97	-4.64/-2.01	-0.03/-1.02	-4.52/-8.61	-9.33/-3.03	0.79/0.01	-3.69/-1.03	2.20/-0.34	-1.36/-2.52	-1.54/0.13	-0.06/-0.76	-1.08/-3.00	-0.31/-0.71	-2.33/-4.59	-4.30/-0.48	-3.38/-3.85	-4.72/-0.41	-0.37/-1.31	0.20/-0.12	0.29/0.35	1.08/0.17	2.21/-0.29
Θ(52.5°)	2.07/-0.52	-8.86/-2.97	0.42/-1.09	-8.52/-3.63	-1.73/-4.55	-6.10/-6.81	-12.47/-5.27	-0.98/-1.02	-3.94/2.66	3.25/-1.38	-3.00/-2.15	-1.14/-1.62	-3.39/-2.33	-0.75/-0.59	1.51/1.13	0.93/2.16	2.59/2.94	3.81/1.57	-1.75/-1.29	1.64/3.05	2.72/2.31	4.04/2.68	2.16/4.15	3.04/1.61
Θ(60°)	3.43/-1.91	-2.24/-4.11	0.80/0.02	-3.11/-2.60	-3.02/-8.82	-3.56/-0.95	-2.21/-5.28	-4.84/-5.02	-1.14/-0.18	0.87/-1.60	-1.54/-2.06	-2.30/-3.37	-2.73/-2.41	0.63/-3.2	3.87/3.74	1.64/2.32	2.16/0.91	2.57/1.12	-2.19/0.17	0.75/1.83	2.57/2.80	4.77/2.03	2.37/3.56	3.69/2.87
Θ(67.5°)	4.23/3.59	-0.72/-4.25	2.09/1.53	-1.15/-2.98	-4.41/-5.37	-1.25/-1.84	2.10/-2.07	-5.04/-3.26	-1.68/-4.15	-2.67/-0.82	-1.49/-3.35	-5.10/-1.57	-0.58/-1.26	2.87/3.79	5.42/5.04	2.76/2.40	3.23/1.67	2.64/0.74	-2.98/1.48	-1.06/0.55	2.10/2.57	3.34/0.76	2.08/2.54	4.12/3.36
Θ(75°)	3.81/4.16	-0.16/-4.45	1.18/0.47	-3.69/-5.01	-5.52/-3.70	-1.08/2.16	2.56/-1.31	-4.83/-1.20	-4.02/-8.25	-4.41/-3.21	-1.43/-2.58	-3.85/-4.83	0.40/-0.75	2.30/2.72	3.75/4.85	2.35/2.66	5.69/5.06	4.28/2.30	-3.35/3.49	-1.03/-0.41	0.40/2.28	0.71/-0.36	1.72/0.41	3.32/3.16
Θ(82.5°)	2.66/3.75	-0.99/-5.31	-0.70/-1.50	-5.42/-6.68	-5.62/-3.27	-1.18/1.07	1.53/-2.91	-4.82/-0.56	-3.74/-8.14	-7.03/-2.82	-4.29/-4.29	-6.83/-1.82	0.70/0.41	1.76/1.78	3.03/2.93	1.20/3.41	6.97/6.48	4.56/2.82	-2.30/4.05	-1.43/-1.10	-0.93/0.97	-2.40/-0.50	0.20/-0.81	1.97/1.87
Θ(90°)	1.16/1.97	-3.02/-5.97	-3.46/-3.67	-1.72/-2.86	-6.33/-4.78	-2.44/-0.50	-0.15/-2.44	-7.44/-1.22	-3.72/-8.43	-9.31/-7.03	-6.69/-5.90	-4.19/-6.90	-1.74/-1.78	0.84/0.40	-0.09/0.28	-1.68/0.41	5.03/6.24	3.95/2.38	-2.86/2.23	-3.33/-3.01	-3.07/-1.37	-5.33/-1.40	-0.40/-3.13	0.14/0.54
Θ(97.5°)	-0.66/-0.11	-5.09/-7.21	-6.12/-5.81	-13.49/-8.39	-7.65/-5.94	-5.14/-2.10	-1.74/-4.55	-7.45/-3.55	-5.92/-10.18	-10.03/-9.24	-12.15/-9.75	-10.15/-4.91	-4.41/-3.09	-1.34/-1.61	0.08/-1.70	-6.37/-5.96	2.34/2.84	0.09/-1.55	-6.02/-0.71	-6.19/-5.98	-4.12/-4.20	-6.84/-2.44	-3.18/-3.43	-1.64/-0.83
Θ(105°)	-1.49/-1.66	-8.23/-9.31	-10.42/-7.70	-10.66/-8.17	-7.49/-8.69	-7.39/-3.61	-2.92/-3.89	-8.40/-4.52	-7.52/-11.40	-10.78/-8.11	-11.92/-13.23	-6.57/-7.16	-3.80/-5.78	-1.71/-3.04	-0.30/-1.21	-5.89/-7.03	-0.39/-1.72	-7.70/-9.95	-7.51/-4.04	-9.31/-8.69	-7.44/-6.42	-8.69/-3.18	-8.49/-3.63	-2.98/-1.73
Θ(112.5°)	-2.62/-4.11	-10.34/-10.13	-12.75/-9.60	-8.64/-7.94	-6.72/-8.85	-7.66/-6.91	-5.54/-4.15	-10.19/-5.59	-6.88/-10.67	-13.26/-7.22	-10.79/-6.34	-6.55/-5.09	-5.15/-5.11	-6.62/-8.46	-8.07/-3.69	-6.92/-3.20	-0.47/-1.57	-10.84/-11.61	-8.53/-4.16	-8.74/-7.71	-6.71/-7.79	-11.03/-12.66	-11.03/-9.26	-11.37/-13.25
Θ(120°)	-5.45/-5.67	-7.30/-11.40	-10.11/-8.32	-8.97/-8.95	-5.43/-5.48	-7.69/-6.33	-4.79/-6.79	-6.28/-5.05	-6.28/-9.51	-14.11/-8.42	-9.64/-9.99	-5.79/-7.46	-9.50/-6.89	-6.63/-6.51	-15.18/-7.05	-6.96/-3.03	-3.88/-1.99	-8.44/-11.42	-4.03/-6.45	-7.80/-10.41	-7.37/-5.10	-9.38/-8.95	-8.89/-7.56	-5.91/-5.42
Θ(127.5°)	-7.53/-0.77	-7.18/-9.81	-12.44/-8.98	-6.14/-8.42	-7.47/-6.49	-8.95/-10.38	-9.10/-7.38	-9.18/-7.42	-8.60/-8.21	-9.90/-11.81	-11.19/-14.75	-15.98/-10.69	-7.25/-5.23	-8.90/-6.18	-8.94/-7.50	-8.75/-6.24	-5.37/-8.21	-9.84/-8.00	-7.46/-7.75	-13.37/-9.01	-9.77/-8.88	-8.01/-9.09	-9.30/-9.53	-8.32/-7.42
Θ(135°)	-6.78/-10.65	-7.46/-9.50	-15.41/-8.88	-5.49/-5.82	-7.93/-7.49	-8.46/-8.60	-10.22/-9.05	-12.20/-8.87	-10.69/-10.61	-13.26/-14.22	-11.72/-10.93	-10.39/-15.18	-11.08/-10.22	-8.64/-6.11	-8.33/-6.57	-12.48/-2.55	-3.66/-7.65	-12.07/-9.81	-11.01/-8.81	-7.52/-7.28	-10.07/-12.66	-11.03/-9.26	-11.37/-13.25	-9.95/-8.74
Θ(142.5°)	-10.06/-9.17	-10.73/-14.34	-15.24/-8.56	-4.61/-5.22	-6.92/-7.91	-7.00/-6.53	-8.81/-11.10	-11.64/-11.15	-6.58/-9.31	-10.33/-11.27	-12.16/-10.66	-15.34/-15.96	-11.75/-11.71	-9.20/-8.79	-5.75/-5.61	-9.50/-14.46	-8.38/-8.91	-15.38/-9.90	-7.40/-12.63	-11.67/-10.34	-11.09/-9.33	-14.63/-12.93	-12.69/-9.60	-9.24/-9.84
Θ(150°)	-3.63/-7.08	-10.25/-12.26	-9.56/-6.31	-6.44/-8.69	-6.70/-7.80	-7.51/-7.38	-7.13/-6.73	-7.55/-10.53	-8.74/-7.49	-9.72/-11.97	-8.91/-7.56	-7.58/-8.84	-5.96/-8.28	-5.53/-5.74	-10.56/-15.50	-13.92/-13.50	-10.93/-13.67	-15.35/-6.15	-5.08/-8.13	-8.47/-9.58	-15.48/-13.34	-13.30/-13.91	-14.29/-13.69	-10.74/-7.34
Θ(157.5°)	-15.18/-15.10	-15.24/-15.90	-11.21/-8.32	-7.71/-7.50	-7.93/-10.04	-10.89/-9.89	-8.99/-7.75	-6.70/-6.42	-7.43/-8.73	-7.41/-5.85	-5.55/-7.37	-7.18/-4.86	-5.26/-9.89	-12.05/-8.38	-7.92/-11.32	-13.23/-13.51	-14.86/-15.82	-10.30/-7.92	-9.48/-14.38	-10.72/-10.29	-14.16/-15.29	-14.16/-11.56	-10.54/-11.35	-10.68/-12.15
Θ(165°)	-12.77/-13.57	-15.78/-15.40	-10.54/-8.31	-7.08/-5.44	-5.62/-7.74	-9.14/-9.88	-12.99/-9.91	-11.90/-10.49	-9.71/-7.11	-5.30/-4.67	-5.88/-9.72	-14.57/-12.55	-10.11/-11.03	-15.28/-15.63	-13.92/-12.34	-13.55/-14.17	-14.88/-14.00	-10.65/-10.77	-13.38/-12.24	-12.75/-11.47	-11.20/-12.77	-12.84/-12.26	-13.16/-15.86	-14.90/-13.63
Θ(172.5°)	-12.43/-11.04	-10.23/-9.08	-9.96/-11.53	-9.10/-8.50	-9.93/-7.93	-6.42/-7.64	-6.63/-5.98	-6.52/-6.60	-6.89/-7.63	-9.38/-11.06	-12.56/-12.43	-10.22/-8.96	-9.78/-11.18	-12.40/-11.97	-12.39/-14.75	-15.48/-14.69	-15.22/-14.85	-12.28/-13.78	-14.08/-13.28	-14.03/-15.54	-14.18/-14.77	-14.44/-13.89	-15.47/-15.26	-14.96/-15.92
Θ(180°)	-10.08/-9.93	-10.34/-10.86	-11.28/-10.60	-11.24/-11.68	-11.09/-10.74	-11.48/-10.72	-9.19/-9.58	-9.59/-9.21	-8.95/-8.93	-9.39/-9.12	-8.83/-8.32	-8.18/-9.40	-11.20/-12.29	-11.26/-10.50	-8.65/-8.52	-7.89/-8.12	-8.40/-8.95	-9.52/-10.92	-11.32/-10.30	-10.43/-11.16	-12.08/-12.59	-12.26/-10.94	-11.04/-11.25	-10.44/-10.38
Freq(Hz)	5.7850Pol.	TotalAnt.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°)	-11.19/-11.13	-10.83/-10.96	-11.95/-12.46	-10.62/-11.75	-11.87/-10.59	-11.23/-11.39	-11.07/-10.38	-9.91/-9.44	-11.11/-10.88	-9.36/-8.81	-7.65/-9.99	-7.28/-7.49	-7.68/-7.41	-7.61/-8.53	-8.89/-8.38	-8.17/-8.36	-8.58/-9.64	-8.88/-9.04	-9.74/-9.59	-9.15/-9.13	-8.33/-8.34	-8.75/-9.27	-9.53/-10.77	-11.84/-11.93
Θ(7.5°)	-0.51/-0.36	-0.30/-0.19	-0.12/-0.14	-0.08/-0.41	-0.81/-0.81	-0.83/-1.68	-2.08/-1.79	-2.70/-3.46	-4.01/-4.87	-6.52/-6.16	-7.07/-7.58	-8.19/-7.66	-7.66/-7.05	-5.98/-5.41	-5.51/-5.03	-4.12/-4.06	-4.40/-4.51	-4.64/-5.48	-5.80/-7.55	-8.64/-7.88	-7.17/-7.40	-6.53/-5.21	-3.91/-3.77	-3.25/-2.88
Θ(15°)	-2.19/-2.16	-1.20/-2.15	1.23/-1.90	2.91/-1.64	1.42/0.73	-0.24/-0.47	1.42/0.73	-0.25/-0.16	0.55/-1.01	1.34/-1.49	1.32/0.95	0.03/-0.92	-2.24/-3.86	-4.80/-3.76	-2.38/-1.52	-1.15/-1.07	-0.99/-0.89	-0.39/0.05	0.41/0.48	0.85/-1.17	1.12/0.20	1.30/-0.37	1.11/0.32	-0.52/-0.24
Θ(22.5°)	-6.42/-7.22	-6.26/-3.21	-0.41/-1.22	2.15/2.14	1.16/0.21	-1.72/-3.95	-4.48/-3.50	-4.37/-2.79	-1.31/-0.70	-0.95/-1.62	-2.21/-1.52	-0.67/-0.56	-1.30/-2.93	-1.92/0.59	1.86/-1.68	0.27/-1.52	-3.26/-4.58	-4.14/-2.78	-1.73/-1.40	-0.39/0.18	-0.40/-0.81	-1.45/-2.47	-4.66/-7.48	-11.23/-11.16
Θ(30°)	-1.75/-5.38	-6.71/-3.17	-1.90/-0.99	0.82/-0.70	1.66/-1.48	-4.24/-6.00	-4.63/-1.73	0.14/-0.58	-2.53/-3.31	-3.86/-6.67	-11.27/-11.65	-5.18/-1.48	-1.82/-4.78	-2.52/-0.13	-0.67/-2.96	-4.57/-4.91	-4.53/-3.78	-2.12/-1.71	-1.93/-0.75	0.76/-0.40	-5.43/-8.96	-5.36/-4.02	-2.78/-1.18	-0.36/-1.32
Θ(37.5°)	-6.05/-10.42	-6.77/-5.13	-2.80/-0.42	1.95/2.90	1.32/-2.13	-6.57/-9.26	-8.07/-4.08	-1.61/-1.69	-3.71/-1.59	-3.11/-10.86	-3.22/-1.45	-6.32/-4.59	-7.14/-4.12	-0.91/-2.13	-3.38/-3.80	-3.68/-6.81	-11.47/-10.03	-7.02/-6.65	-10.74/-8.33	-3.65/-2.02	-3.76/-7.16	-5.09/-1.90	-2.21/-1.63	-1.64/-4.25
Θ(45°)	-2.44/-3.98	-3.52/-1.36	-0.36/0.33	-0.06/-1.32	-1.87/-1.16	-1.15/-4.18	-7.85/-9.46	-9.61/-5.27	-4.40/-2.06	0.65/-2.10	-5.86/-3.48	-5.18/-4.44	-4.55/-4.03	-1.45/-5.45	-5.34/0.47	0.84/-3.75	-4.20/-0.15	-0.61/-4.34	-3.71/-4.41	-5.29/-0.93	-1.68/-4.26	-2.51/-4.54	-5.18/-4.32	-3.93/-4.30
Θ(52.5°)	0.59/-2.43	-3.30/0.28	1.82/-1.39	-4.69/-3.61	-1.01/-0.28	-1.70/-2.21	-5.54/-13.31	-15.41/-5.89	-2.36/-4.63	-0.25/-0.64	-2.30/-9.25	-2.69/0.80	-1.17/-5.25	-5.81/-8.95	0.27/1.73	0.37/0.51	2.47/4.00	3.29/-0.64	-1.54/-2.92	-2.86/-1.77	1.66/1.88	-0.56/-4.53	-3.46/-3.75	-0.21/0.78
Θ(60°)	1.75/-1.26	-6.66/-1.78	2.09/0.59	-1.54/-1.36	0.18/0.87	0.83/-0.87	0.64/1.25	-2.83/-7.44	-1.60/-8.11	-3.64/-2.94	-0.30/-4.30	-5.17/0.76	0.68/-0.91	-1.44/0.81	3.41/-2.43	0.30/2.05	1.31/0.82	1.88/0.75	-3.54/-6.69	-4.84/-2.48	1.66/1.55	-1.39/-2.81	0.37/-1.73	1.69/-1.77
Θ(67.5°)	-0.87/-3.46	-8.16/-5.42	0.10/-0.71	-1.84/-4.18	-3.61/0.46	-0.87/-1.86	2.71/4.51	1.29/-3.81	-2.47/-10.32	-4.01/-8.06	-1.40/-6.85	-0.83/0.65	2.89/-1.22	1.11/4.50	5.62/3.96	3.30/3.22	3.98/2.80	2.79/1.80	1.49/-2.40	-5.24/-1.77	1.80/1.57	-4.28/0.74	1.24/-1.79	0.21/0.52
Θ(75°)	-1.45/-4.27	-7.72/-5.65	-2.41/-4.41	-5.79/-6.04	-5.53/0.41	-1.13/-3.29	2.30/5.17	1.99/-1.06	-1.67/-9.58	-3.11/-7.29	-5.79/-5.96	-3.43/0.08	2.58/0.77	-0.02/0.05	5.37/4.80	2.95/2.78	6.14/5.58	4.64/2.26	3.78/-1.11	-4.59/2.54	-1.15/-0.37	-4.23/2.80	0.35/-1.29	-1.11/-1.51
Θ(82.5°)	-1.65/-4.80	-6.90/-6.98	-5.72/-9.61	-11.61/-13.66	-6.60/-0.32	-1.81/-3.01	0.82/-1.54	-1.																



Antenna Pattern_Radio 4_5GHz UNII 2C-4 and 6GHz

Appendix F

Θ(75°)	-0.89/-5.05	-1.61/-0.05	1.94/0.29	-0.11/-1.54	-3.96/-5.09	-3.67/-4.88	-6.90/-9.47	-2.94/0.74	-0.02/-3.25	-2.75/-5.57	-3.87/-4.34	-3.79/0.67	2.53/1.06	4.22/-1.76	1.84/-2.42	1.87/3.13	2.30/3.16	0.30/0.00	-6.26/-3.48	-1.47/-4.99	2.97/1.07	3.51/-0.44	1.35/0.37	-2.12/-1.42
Θ(82.5°)	-1.30/-5.57	-3.07/-0.98	0.11/-1.26	-0.82/-1.83	-5.02/-6.01	-5.24/-8.41	-7.89/-7.17	-0.21/-1.48	1.35/-4.26	-5.17/-5.16	-6.18/-4.68	-4.37/2.76	1.40/2.54	1.12/-0.72	0.47/-0.65	2.05/3.36	3.07/3.81	0.35/2.39	-0.28/-0.15	-3.01/-3.67	2.22/0.69	3.07/-2.16	-0.38/-1.27	-3.57/-1.37
Θ(90°)	-2.99/-6.01	-4.87/-1.80	-1.30/-2.86	-2.42/-1.69	-4.99/-6.63	-7.95/-11.98	-5.18/-7.59	-1.21/-1.98	0.87/-5.89	-6.36/-5.90	-3.99/-10.45	-7.24/-1.32	0.46/-0.02	1.52/-3.10	-0.36/-2.50	-1.07/-1.35	2.49/2.92	0.97/0.60	0.87/-1.28	-6.24/-4.80	-1.65/-0.74	1.91/-3.30	-3.95/-3.05	-4.87/-2.78
Θ(97.5°)	-4.74/-5.66	-6.63/-2.46	-1.34/-4.08	-5.49/-4.74	-6.30/-7.81	-7.07/-12.15	-5.30/-7.94	-2.45/-1.10	-1.04/-8.89	-6.22/-7.11	-7.80/-7.33	-6.59/-1.15	-1.91/-2.16	-2.33/-0.26	-3.88/-4.30	-3.49/-3.67	-0.47/-0.68	-3.82/-2.57	-3.27/-4.10	-8.51/-8.11	-3.17/-4.28	-0.60/-4.51	-7.29/-5.31	-4.83/-4.84
Θ(105°)	-4.94/-6.11	-6.52/-3.73	-3.33/-6.31	-6.90/-6.38	-7.82/-7.19	-6.82/-14.20	-7.22/-8.61	-3.49/-0.98	-2.91/-10.52	-7.67/-8.67	-5.99/-10.15	-8.73/-5.54	-3.12/-2.29	-1.37/-4.89	-3.40/-6.93	-8.17/-9.41	-3.31/-6.88	-7.08/-6.80	-5.16/-11.26	-14.37/-12.62	-6.86/-5.51	-2.25/-5.84	-11.49/-6.68	-6.63/-6.51
Θ(112.5°)	-4.77/-6.07	-6.42/-4.95	-4.07/-7.47	-10.48/-9.26	-7.62/-10.47	-7.65/-15.43	-11.41/-8.75	-4.81/-3.31	-4.92/-8.84	-10.55/-10.32	-7.85/-11.54	-8.85/-6.50	-6.42/-9.35	-6.50/-10.01	-5.17/-8.72	-9.66/-5.79	-2.35/-12.31	-12.92/-8.52	-4.58/-9.00	-13.81/-12.59	-4.94/-14.84	-4.23/-7.80	-8.21/-9.29	-8.27/-6.75
Θ(120°)	-6.70/-6.54	-6.08/-4.36	-7.64/-10.43	-12.14/-9.59	-9.63/-11.45	-10.00/-15.80	-12.16/-9.51	-8.03/-3.92	-6.67/-8.95	-16.00/-14.74	-12.45/-14.98	-7.52/-9.93	-7.33/-7.35	-6.05/-9.04	-4.12/-9.50	-11.22/-7.10	-5.94/-5.04	-9.90/-8.93	-5.38/-12.04	-15.39/-15.36	-4.36/-6.68	-4.92/-7.79	-8.55/-12.20	-9.18/-8.36
Θ(127.5°)	-7.22/-6.88	-7.40/-6.16	-7.33/-10.49	-15.46/-13.32	-8.83/-9.17	-9.15/-11.62	-13.90/-11.73	-9.75/-5.23	-3.01/-10.56	-14.71/-12.90	-15.69/-11.33	-11.41/-12.09	-11.93/-10.29	-9.23/-15.19	-11.60/-7.02	-12.75/-10.32	-9.30/-11.23	-11.36/-9.12	-12.51/-9.51	-13.98/-13.29	-12.39/-6.73	-6.93/-9.69	-10.38/-12.20	-10.68/-7.91
Θ(135°)	-7.84/-9.79	-11.49/-10.13	-9.52/-11.03	-12.54/-15.09	-10.04/-8.45	-10.02/-13.54	-14.43/-13.00	-10.91/-5.53	-4.83/-7.31	-9.02/-12.40	-13.35/-10.57	-10.66/-13.63	-10.78/-8.65	-8.25/-13.23	-8.87/-11.27	-11.27/-5.04	-7.23/-9.29	-12.03/-4.76	-10.44/-7.36	-8.11/-10.21	-12.57/-9.20	-10.95/-11.76	-14.15/-9.22	-10.99/-6.68
Θ(142.5°)	-10.44/-12.19	-9.56/-11.71	-12.98/-11.78	-11.72/-12.91	-11.13/-7.48	-6.03/-8.41	-13.67/-15.88	-9.22/-7.20	-7.28/-5.30	-7.05/-11.14	-8.54/-10.01	-15.37/-9.50	-10.25/-9.39	-11.44/-7.91	-8.51/-12.50	-8.45/-9.51	-13.27/-12.53	-9.83/-6.95	-13.71/-12.07	-9.48/-10.42	-11.56/-14.42	-15.62/-10.59	-11.57/-12.38	-7.54/-8.99
Θ(150°)	-12.70/-11.97	-13.40/-10.40	-7.80/-8.59	-13.92/-15.36	-14.18/-8.20	-6.49/-7.97	-10.82/-12.17	-10.50/-7.16	-5.60/-6.73	-9.52/-9.76	-9.26/-8.50	-7.75/-9.27	-11.12/-6.20	-9.31/-14.27	-9.99/-8.98	-15.46/-14.65	-12.93/-13.08	-13.65/-9.24	-12.66/-13.47	-8.42/-9.44	-9.50/-10.29	-10.08/-10.30	-9.45/-9.55	-8.07/-11.26
Θ(157.5°)	-11.27/-11.78	-11.27/-15.30	-15.16/-13.06	-11.99/-14.64	-15.05/-14.50	-11.45/-9.77	-9.04/-9.80	-10.71/-10.63	-11.23/-8.06	-4.92/-4.89	-7.68/-8.13	-10.12/-9.82	-9.50/-7.25	-7.53/-10.29	-11.34/-15.50	-12.48/-12.92	-9.40/-7.77	-8.40/-7.73	-6.30/-6.85	-9.86/-12.22	-12.97/-11.20	-11.42/-10.55	-11.15/-11.61	
Θ(165°)	-14.72/-13.07	-12.53/-12.22	-10.78/-10.08	-10.73/-11.01	-12.36/-14.45	-14.72/-14.36	-13.84/-12.30	-13.18/-12.84	-10.91/-8.96	-8.98/-9.77	-8.32/-8.47	-9.39/-9.07	-12.10/-10.15	-8.40/-11.65	-15.59/-14.89	-13.29/-13.23	-15.61/-14.45	-11.06/-12.31	-13.82/-13.37	-14.45/-15.91	-15.01/-15.29	-15.11/-15.64	-15.69/-12.71	-12.96/-12.34
Θ(172.5°)	-13.90/-13.92	-13.68/-13.61	-13.11/-13.70	-13.63/-13.07	-14.22/-13.12	-13.13/-12.38	-13.73/-14.29	-15.46/-14.62	-15.37/-15.58	-15.17/-15.28	-15.97/-15.68	-14.84/-13.23	-13.03/-15.23	-15.72/-15.09	-15.90/-15.66	-13.29/-12.17	-12.70/-14.05	-12.98/-12.61	-11.40/-12.56	-14.30/-14.22	-15.16/-15.33	-13.78/-12.56	-14.77/-12.65	-13.61/-15.44
Θ(180°)	-15.94/-15.64	-15.38/-15.83	-13.87/-14.98	-15.54/-14.39	-14.59/-15.38	-15.65/-14.33	-14.92/-15.30	-14.02/-14.05	-14.06/-14.96	-14.73/-15.89	-15.59/-15.27	-15.30/-16.05	-15.43/-15.15	-15.08/-14.57	-14.91/-15.79	-15.25/-15.48	-15.78/-15.17	-15.55/-15.27	-15.85/-15.43	-15.90/-15.26	-14.89/-15.64	-15.63/-16.18	-15.15/-15.66	
Freq(Hz)	6.895GPol.	TotalAnt.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°)	-1.59/-1.77	-1.79/-2.04	-2.29/-2.17	-1.71/-2.58	-2.00/-1.89	-2.81/-1.41	-2.07/-2.54	-2.12/-1.67	-1.73/-1.99	-1.98/-1.60	-1.36/-1.37	-1.07/-0.76	-0.43/-0.44	-0.48/-0.83	-0.89/-1.13	-0.88/-1.33	-1.48/-1.67	-1.69/-1.95	-2.32/-2.27	-2.36/-2.71	-3.34/-2.67	-2.78/-3.37	-2.93/-2.79	-2.71/-3.27
Θ(7.5°)	1.54/2.01	2.26/2.37	2.18/1.79	2.09/1.65	0.97/0.94	-0.27/-0.16	-0.59/-2.19	-2.56/-3.30	-4.61/-5.10	-5.38/-5.33	-5.43/-5.01	-4.50/-4.22	-4.27/-4.14	-3.94/-4.05	-4.15/-3.91	-3.66/-3.02	-2.75/-2.39	-2.28/-1.92	-1.77/-2.33	-2.06/-1.89	-1.95/-1.69	-1.25/-0.61	0.08/0.63	1.02/1.28
Θ(15°)	-5.77/-5.15	-5.31/-6.99	-7.95/-7.06	-6.91/-8.41	-5.12/-6.16	-5.81/-5.90	-5.38/-5.49	-5.18/-5.74	-6.75/-7.74	-8.65/-8.12	-7.06/-7.03	-7.00/-7.02	-6.04/-6.74	-1.00/0.15	0.81/0.55	0.18/0.46	0.71/0.75	1.10/1.41	1.43/1.66	1.73/0.97	0.24/-0.95	-2.09/-2.94	-3.80/-3.77	-3.27/-3.03
Θ(22.5°)	-5.26/-4.03	-4.90/-4.55	-4.51/-1.85	-0.33/-0.39	-0.80/-1.37	-1.58/-3.57	-4.78/-5.97	-7.58/-5.36	-2.84/-3.35	-4.49/-5.31	-0.99/-1.03	-2.54/-2.55	-0.93/0.73	2.03/2.46	1.95/-2.25	1.03/1.79	1.98/1.76	1.47/1.54	1.89/2.20	1.71/-0.36	-2.20/-3.11	-4.24/-6.80	-8.77/-8.19	
Θ(30°)	-0.31/0.52	-1.20/-5.86	-4.00/-0.42	-0.92/-3.96	-4.05/-0.69	-0.20/-1.56	-4.93/-6.82	-5.73/-4.89	-2.64/-0.66	-1.80/-5.42	-3.11/-1.49	-1.35/-0.26	-1.02/-1.53	-2.22/-0.52	1.05/1.12	1.32/1.79	0.97/0.63	0.92/-0.14	-1.82/-1.71	-1.66/-3.26	-0.04/-1.97	0.70/-2.11	-3.57/-5.67	-10.95/-4.65
Θ(37.5°)	1.81/2.23	0.88/0.86	0.40/1.44	0.67/1.05	0.50/-1.06	-1.97/-2.98	-5.63/-3.16	-1.47/-0.90	0.07/0.49	0.94/0.41	-3.64/-0.65	0.02/-0.45	-1.17/-0.41	0.84/-0.78	-2.39/-1.53	-1.65/-1.00	-1.26/-0.60	-0.44/-2.47	-0.73/-0.19	2.32/1.89	3.73/2.14	4.80/3.05	1.14/0.84	0.47/2.65
Θ(45°)	2.30/2.48	3.15/2.92	-1.32/-3.83	-1.55/0.68	0.17/-2.01	-2.52/-2.19	-5.30/-6.44	-7.71/-4.03	-0.86/-0.43	0.46/1.81	-1.44/-3.28	-0.17/0.07	0.42/0.11	1.04/-0.45	-8.58/-7.45	-8.48/-9.70	-7.49/-3.92	-6.50/-8.90	-9.45/-3.02	-0.87/-0.56	1.09/-1.41	-1.99/0.92	-1.36/-1.87	-0.13/1.03
Θ(52.5°)	3.31/3.31	5.24/5.10	2.20/1.66	1.23/-1.12	-2.78/-3.17	-6.36/-8.86	-11.15/-7.43	-4.74/-4.93	-0.71/-0.32	-1.93/-1.72	-2.47/-1.73	2.02/0.81	-3.72/0.84	1.32/-1.90	-7.94/-1.35	-3.07/-2.34	0.67/1.85	-1.96/-3.00	-3.27/-0.28	0.09/0.15	3.59/-0.40	1.72/1.79	-1.33/-1.46	0.46/1.31
Θ(60°)	3.39/2.86	4.55/5.37	2.77/2.77	1.41/-6.91	-1.49/-5.15	-3.98/-5.73	-9.68/-3.54	-0.39/-1.07	0.95/0.48	-3.21/-8.47	-4.00/-3.53	-0.31/0.57	-3.48/-0.65	1.66/-3.53	-1.458/-2.33	-1.65/-1.00	-1.26/-0.60	-0.44/-2.47	-0.73/-0.19	2.32/1.89	3.73/2.14	4.80/3.05	1.14/0.84	0.47/2.65
Θ(67.5°)	2.75/1.34	2.15/5.01	0.96/2.02	0.98/-4.38	-3.03/-3.93	-4.53/-4.29	-5.52/-4.66	-2.20/-1.99	3.38/0.69	-8.15/-4.52	-10.04/-7.60	-4.24/-0.91	-0.23/1.74	0.31/-4.00	-1.21/1.88	0.15/-0.08	-0.93/-1.35	0.75/-1.42	-3.50/-1.95	0.87/0.99	1.85/3.82	5.68/-0.09	3.74/-0.86	1.15/3.29
Θ(75°)	1.93/-1.10	-0.40/0.53	-1.88/0.24	-0.30/-1.06	0.23/-1.44	-3.90/-4.66	-5.25/-8.67	-5.72/0.54	2.78/0.63	-10.01/-2.23	-3.48/-8.72	-6.27/-4.88	2.46/0.54	2.22/0.08	-0.84/3.59	-0.09/-1.35	0.87/3.16	3.26/1.96	-10.82/-3.35	-2.62/-2.03	-0.02/4.47	4.73/3.03	3.56/-3.13	0.96/2.98
Θ(82.5°)	0.94/-3.58	-2.06/-1.13	-3.08/-0.82	-1.77/-3.21	-0.95/-0.85	-3.06/-4.33	-6.49/-5.82	-14.46/-1.22	-0.25/-2.17	-9.20/-0.04	-4.32/-6.37	-8.36/0.22	0.08/0.69	1.33/-0.34	-1.38/3.41	-5.68/-1.32	1.65/4.67	3.99/3.44	-4.84/-1.24	-4.98/-1.47	-2.51/4.23	2.94/2.04	1.21/-3.45	1.00/1.63
Θ(90°)	-0.62/-3.84	-2.68/-2.43	-2.64/-1.21	-3.77/-6.30	-1.59/-2.11	-2.96/-5.04	-8.69/-4.45	-6.35/-3.49	-4.44/-4.18	-6.65/-3.03	-1.42/-8.29	-6.17/-5.49	0.93/-1.50	0.71/0.49	-2.45/2.85	-5.28/-2.83	0.24/0.06	2.28/2.68	-1.93/-0.88	-8.61/-6.02	-4.89/2.42	0.41/-0.30	-1.23/-4.06	0.14/-0.60
Θ(97.5°)	-3.06/-4.08	-3.33/-3.58	-2.65/-1.44	-4.55/-8.39	-3.77/-4.10	-3.87/-5.75	-6.73/-5.65	-4.36/-5.40	-6.69/-7.49	-7.79/-3.55	-5.55/-8.17	-10.79/-3.15	-3.58/-3.12	-1.00/-3.46	-2.57/-1.07	-6.26/-6.62	-3.23/-0.20	-2.69/-1.82	-4.80/-3.18	-10.89/-6.02	-4.58/0.01	-1.88/-2.77	-4.81/-5.02	-1.02/-3.54
Θ(105°)	-7.68/-4.31	-5.41/-4.15	-4.32/-2.44	-5.26/-9.74	-5.29/-2.93	-4.51/-5.30	-4.86/-7.23	-7.04/-10.26	-11.13/-8.81	-9.89/-7.22	-4.10/-10.71	-5.99/-10.12	-3.50/-5.71	-3.95/-3.23	-6.26/-3.76	-6.36/-6.37	-6.64/-5.77	-4.50/-7.95	-8.39/-8.37	-12.92/-10.64	-4.43/-1.73	-3.61/-6.72	-6.97/-5.72	-2.93/-6.43
Θ(112.5°)	-9.35/-5.02	-7.15/-6.02	-5.65/-5.53	-7.77/-15.54	-8.48/-2.75	-4.38/-5.74	-5.68/-9.05	-6.10/-15.28	-9.56/-12.94	-12.10/-8.43	-7.53/-10.32	-6.18/-11.81	-10.01/-9.42	-4.70/-9.65	-7.99/-6.35	-6.03/-9.72	-4.05/-4.69	-7.14/-6.29	-5.43/-6.10	-12.13/-8.45	-3.46/-5.32	-7.16/-9.66	-10.20/-9.60	-5.01/-8.73
Θ(120°)	-8.40/-5.48	-7.38/-6.21	-5.18/-7.14	-13.60/-12.69	-11.46/-6.41	-7.70/-6.65	-7.97/-8.12	-9.06/-11.40	-9.50/-13.29	-15.06/-13.69	-10.30/-12.15	-7.52/-11.26	-10.27/-8.88	-7.04/-7.48	-6.83/-8.02	-8.84/-11.18	-7.10/-6.10	-8.29/-7.32	-5.35/-8.29	-10.75/-8.16	-2.82/-4.82	-10.00/-12.47	-10.50/-8.16	-9.58/-10.19
Θ(127.5°)	-7.11/-7.16	-7.54/-7.4																						

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 $\Theta(0-180)\Phi(270)$

