

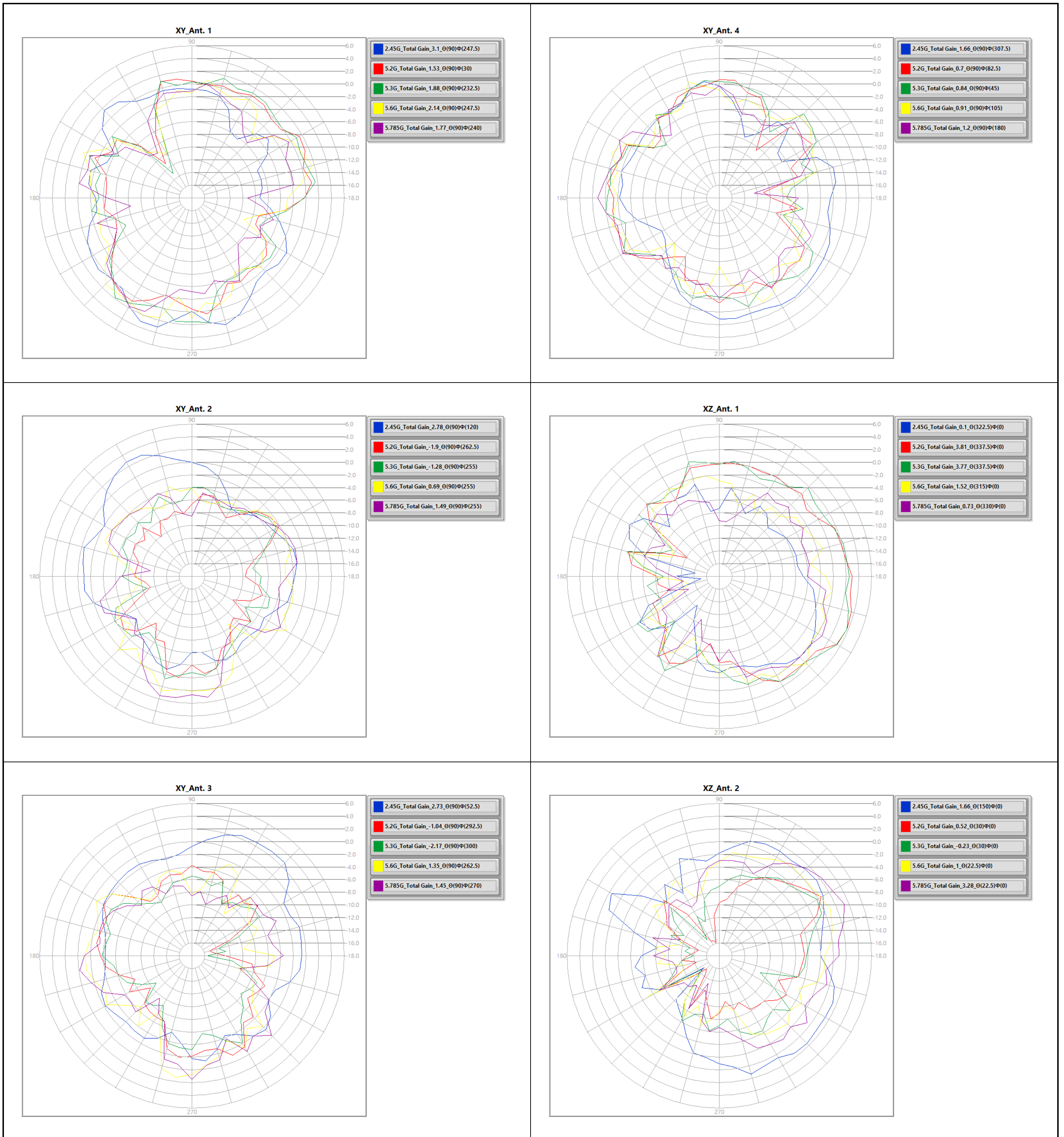


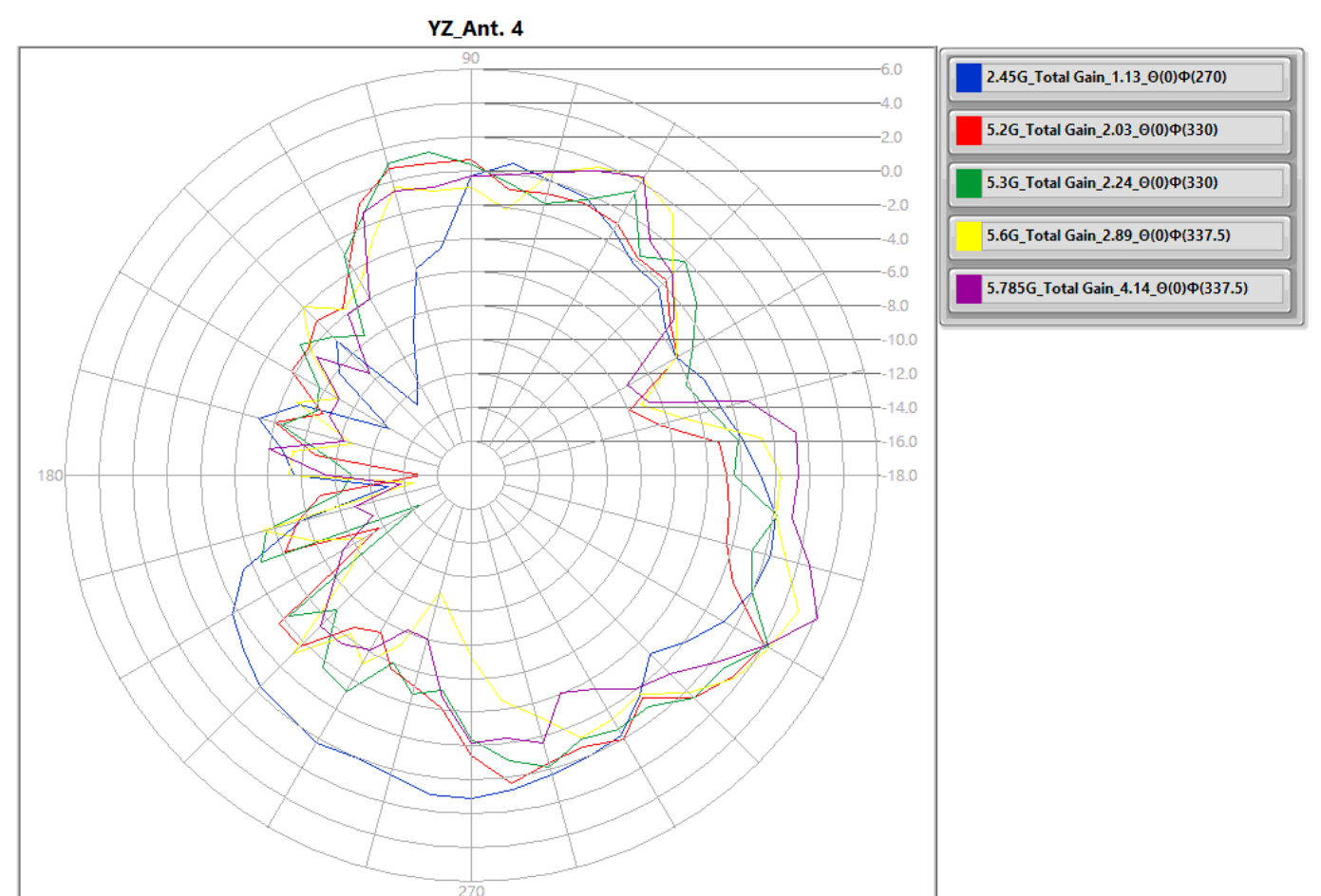
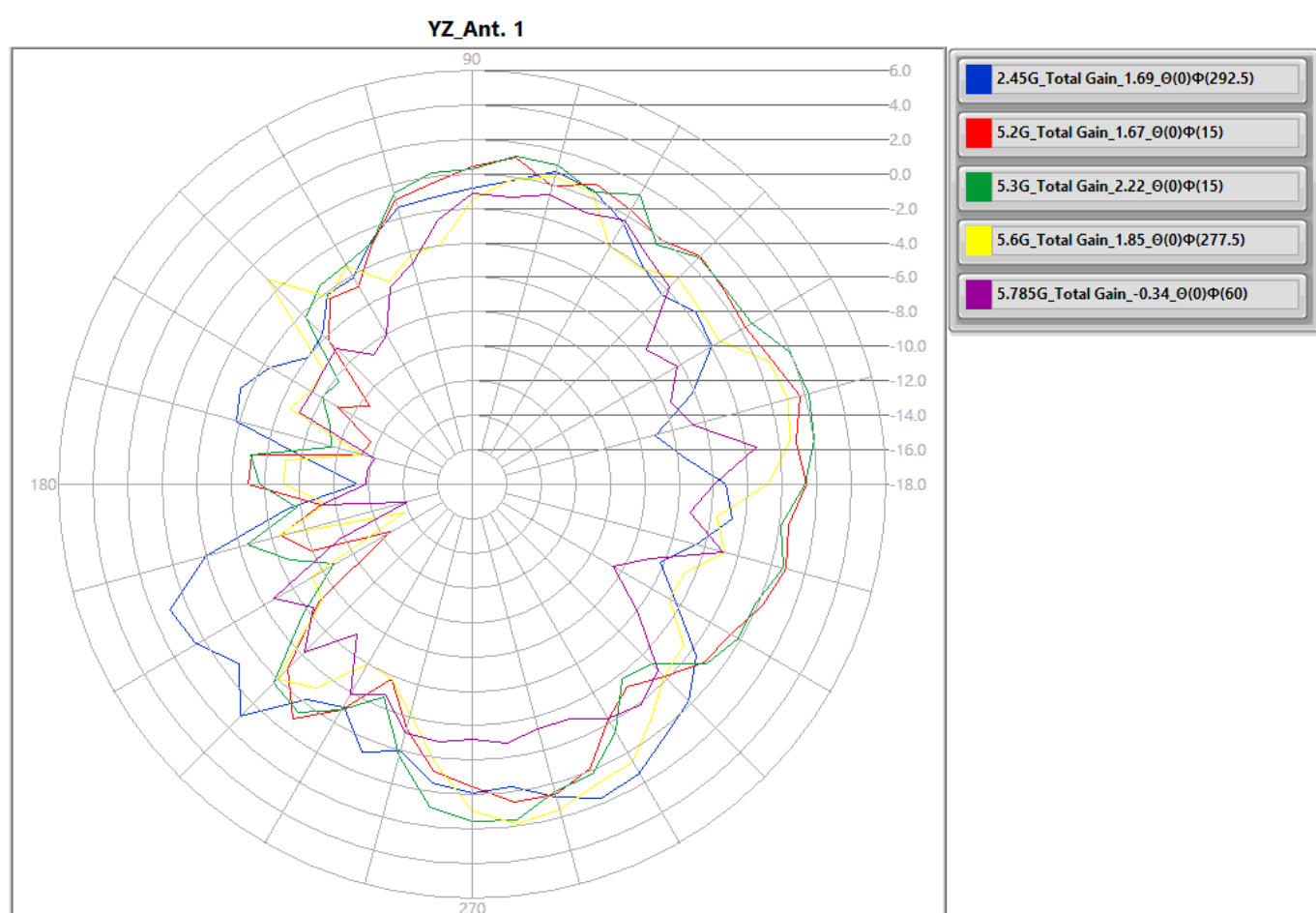
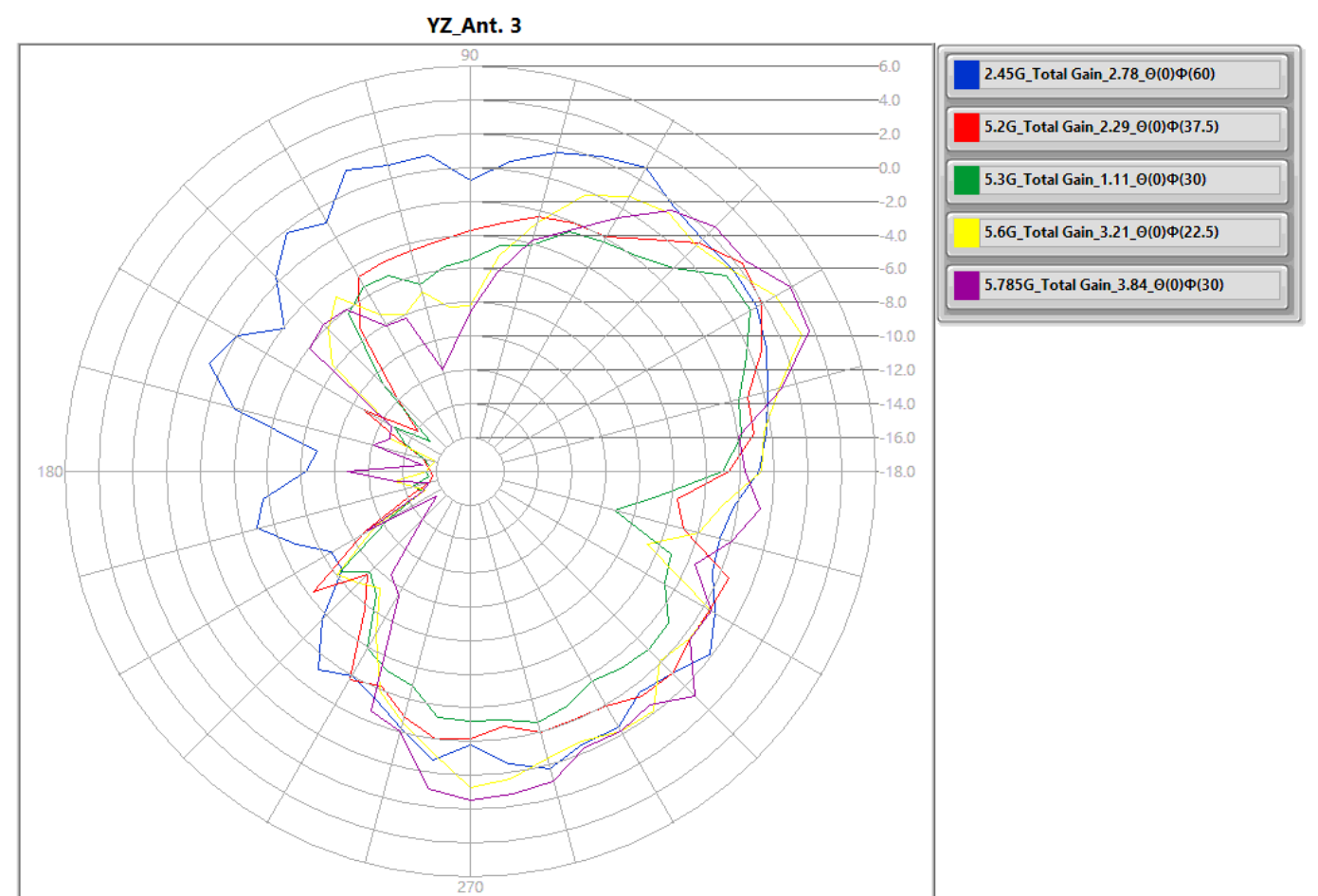
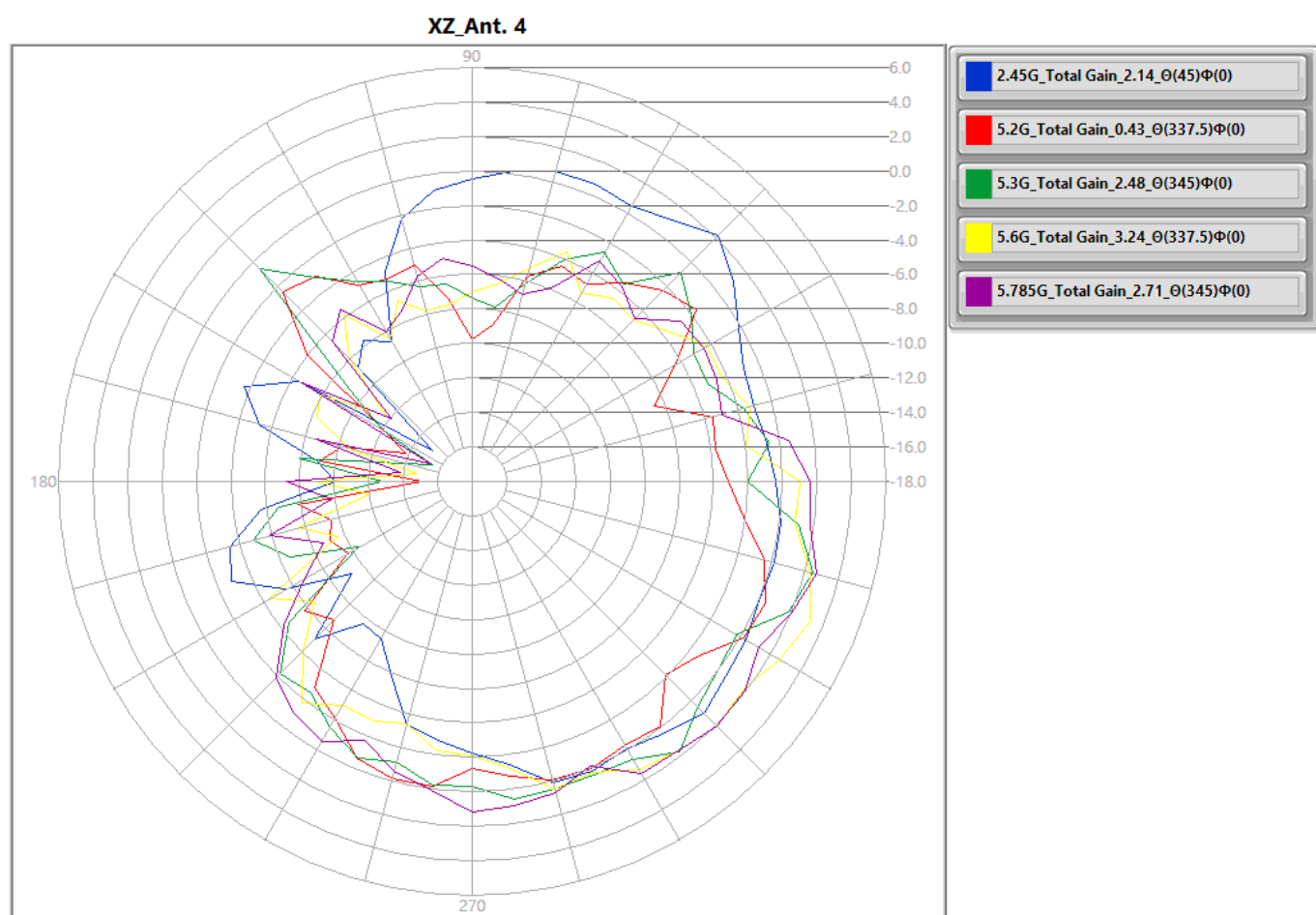
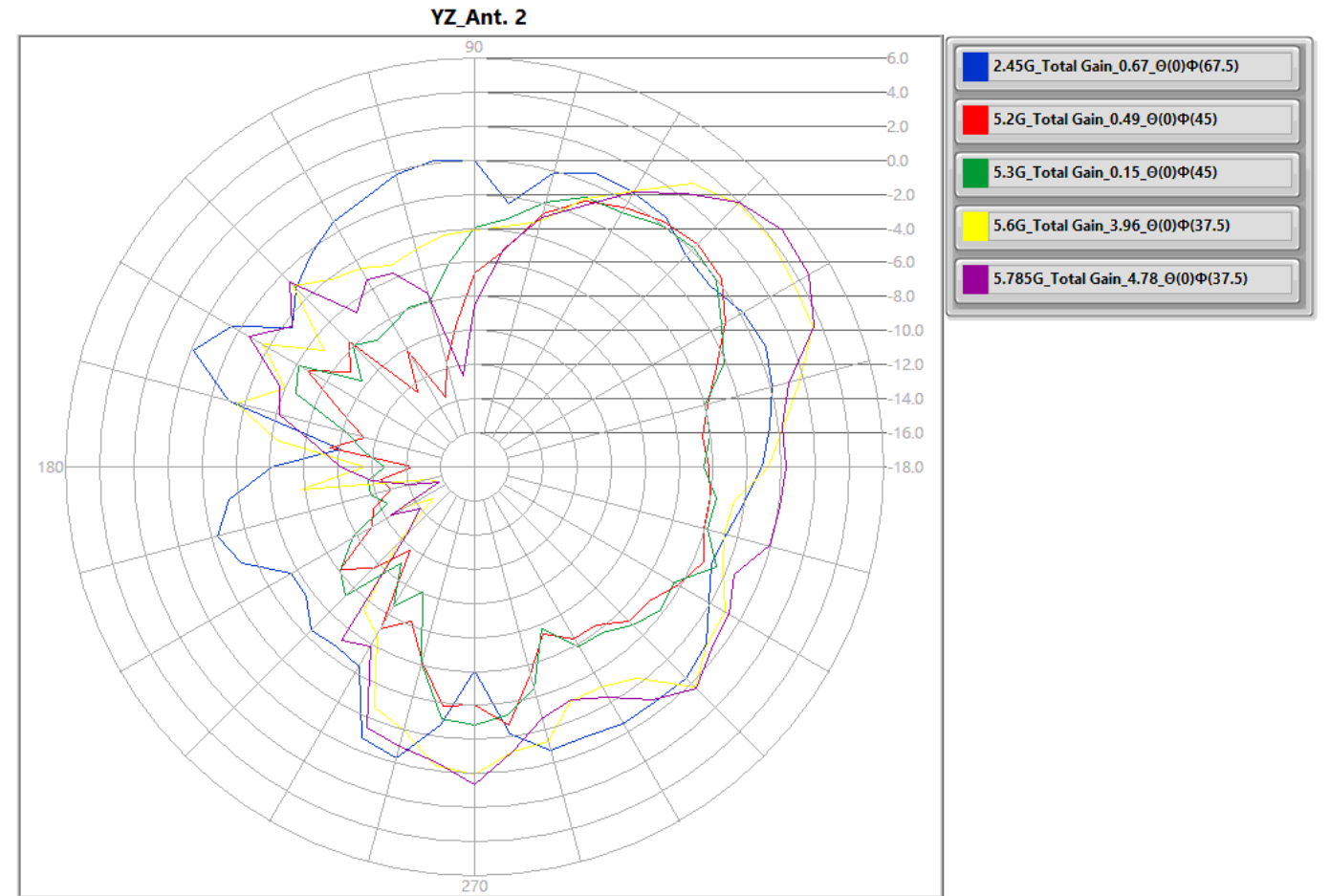
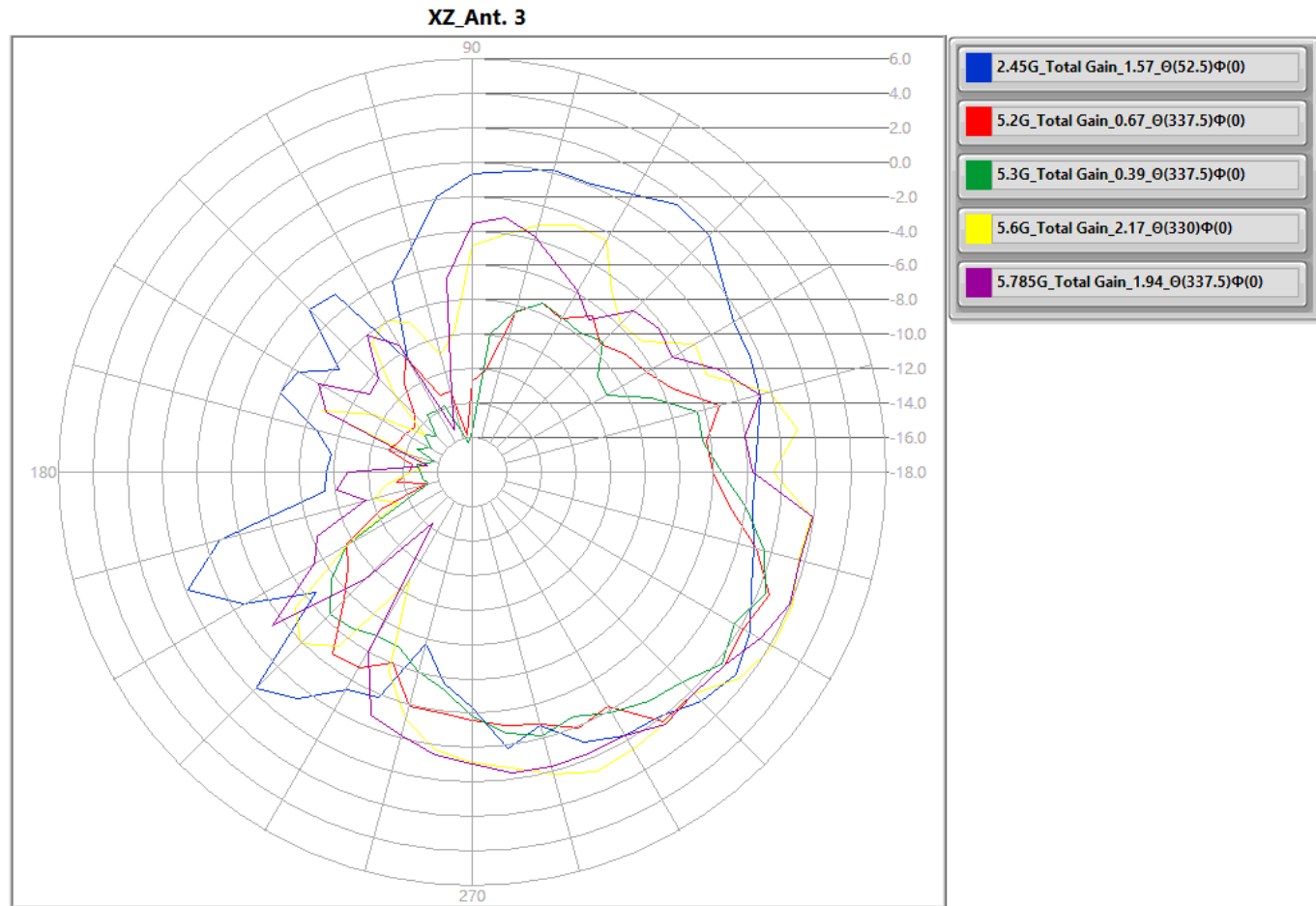
Antenna Pattern 2.4GHz and 5GHz U-NII 1~3

Appendix C

Θ(165°)	-10.19/-11.29	-12.45/-12.44	-12.15/-10.05	-8.57/-6.41	-4.87/-4.11	-4.19/-4.36	-6.00/-6.57	-5.20/-5.07	-4.66/-5.00	-5.41/-7.46	-11.01/-12.34	-10.74/-10.37	-9.52/-9.08	-8.10/-9.52	-10.89/-9.78	-8.20/-7.24	-6.25/-5.00	-4.80/-5.60	-7.35/-9.50	-12.16/-10.45	-8.80/-8.09	-8.31/-9.80	-13.06/-13.96	-11.61/-10.49
Θ(172.5°)	-9.07/-10.21	-10.19/-8.85	-8.08/-7.10	-6.57/-6.41	-6.03/-6.79	-7.96/-8.25	-8.73/-9.07	-9.84/-10.08	-10.20/-9.71	-8.81/-8.60	-8.25/-8.22	-8.88/-8.68	-7.83/-6.47	-5.98/-6.12	-6.59/-4.78	-4.37/-4.49	-4.60/-5.28	-6.39/-7.72	-8.99/-11.84	-15.87/-15.15	-14.83/-13.84	-12.89/-12.14	-11.93/-11.13	-8.92/-9.11
Θ(180°)	-15.13/-13.89	-14.22/-13.12	-13.98/-14.25	-15.21/-15.31	-14.67/-14.57	-15.30/-14.64	-15.03/-15.61	-14.55/-14.47	-15.38/-15.15	-14.51/-14.36	-14.97/-14.50	-14.49/-15.15	-16.04/-14.62	-12.43/-12.21	-13.34/-14.72	-15.80/-15.11	-15.13/-15.85	-15.06/-13.47	-13.45/-14.62	-15.40/-14.96	-15.52/-16.08	-14.57/-14.16	-13.42/-14.46	-15.65/-15.65
Freq(Hz)	5.3GHzPol.	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°)	-2.00/-1.73	-1.49/-1.33	-1.52/-1.79	-2.02/-1.93	-2.17/-2.13	-2.70/-2.96	-2.50/-1.98	-2.15/-2.45	-1.98/-1.82	-2.01/-2.01	-1.39/-1.37	-1.56/-1.09	-1.04/-1.88	-1.93/-1.11	-1.05/-1.76	-1.82/-1.27	-1.43/-1.83	-1.62/-1.08	-1.12/-1.52	-1.76/-1.91	-1.68/-2.25	-2.54/-2.42	-1.87/-1.79	-1.89/-2.35
Θ(7.5°)	-0.65/-1.07	-2.43/-3.09	-1.85/-1.58	-2.06/-2.06	-1.28/-1.07	-1.62/-1.91	-2.08/-2.51	-3.77/-4.01	-4.48/-3.48	-3.32/-2.89	-2.23/-1.20	-1.40/-0.08	1.09/-1.23	0.62/-0.77	1.41/-1.28	0.70/-0.74	0.66/-0.29	-0.94/-0.04	0.21/-0.73	-1.28/-1.66	-2.00/-2.34	-2.61/-2.56	-2.04/-1.89	-1.71/-1.58
Θ(15°)	-1.68/-2.47	-3.82/-5.38	-4.83/-4.54	-4.46/-3.96	-3.35/-3.20	-3.69/-3.61	-3.38/-3.00	-3.29/-3.13	-2.62/-3.08	-3.19/-2.63	-1.91/-0.16	0.76/-1.70	2.48/-2.39	1.29/-0.48	0.52/-0.25	-0.53/-1.15	-1.15/-1.60	-2.37/-1.92	-0.86/-0.28	-0.43/-0.62	-1.38/-2.77	-3.65/-3.60	-3.16/-2.37	-1.98/-1.59
Θ(22.5°)	-3.22/-5.09	-5.73/-6.14	-6.13/-6.02	-5.48/-5.17	-5.66/-4.68	-4.17/-3.74	-4.23/-4.93	-6.02/-5.05	-3.36/-2.87	-3.30/-3.12	-1.95/-0.15	1.24/-1.96	1.84/-1.32	0.43/-0.16	0.54/-1.19	1.19/-1.50	1.97/-1.91	0.58/-1.12	-0.04/-0.90	1.48/-0.92	-0.76/-2.79	-3.70/-3.11	-2.45/-1.78	-1.15/-1.56
Θ(30°)	-3.17/-2.24	-2.00/-2.62	-2.83/-2.17	-1.30/-1.71	-2.74/-3.79	-3.30/-2.95	-2.86/-3.80	-7.09/-8.08	-3.69/-2.03	-2.35/-3.09	-1.62/-0.60	1.22/-0.35	-0.27/-0.28	1.56/-0.25	1.35/-0.83	1.54/-2.42	2.82/-3.26	3.60/-3.30	2.24/-1.91	2.60/-2.70	2.12/-0.73	-0.67/-1.73	-1.19/-0.85	-2.03/-3.01
Θ(37.5°)	-1.97/-0.76	-0.39/-0.15	0.88/-0.43	0.57/-0.71	0.64/-0.15	-0.52/-1.15	-1.27/-1.29	-3.37/-6.84	-4.15/-1.26	-1.50/-2.89	-0.88/-0.78	0.33/-0.76	0.00/-1.25	1.74/-1.60	1.14/-1.27	2.16/-3.03	2.85/-3.01	3.99/-2.85	0.77/-3.14	3.69/-3.70	3.28/-3.06	1.37/-0.99	0.34/-1.03	-1.38/-3.58
Θ(45°)	-0.84/-1.72	-2.36/-1.11	-1.13/-2.44	-3.32/-2.42	-1.48/-1.68	-1.07/-0.35	-0.14/-1.19	-3.89/-5.39	-3.18/-0.38	-0.56/-1.94	-0.83/-0.54	-0.16/-1.09	0.47/-1.49	0.61/-0.22	1.12/-2.89	3.62/-3.07	1.93/-1.76	1.18/-0.87	0.58/-0.03	2.02/-2.46	2.49/-3.52	3.20/-2.06	0.31/-0.51	-1.51/-2.11
Θ(52.5°)	-3.56/-5.41	-3.89/-2.70	-2.42/-4.52	-4.65/-4.52	-3.20/-2.31	-2.20/-2.56	-1.70/-0.20	-1.74/-4.82	-3.69/-2.28	-0.33/-0.77	-2.18/-1.92	-1.63/-0.94	1.78/-2.25	1.07/-0.94	1.92/-2.71	3.10/-1.53	1.13/-1.03	0.59/-0.11	-0.78/-0.21	0.65/-0.55	0.87/-2.70	2.29/-1.78	0.24/-0.18	-1.74/-1.37
Θ(60°)	-2.67/-1.97	-0.57/-2.06	-2.80/-2.13	-0.82/-0.45	-2.03/-3.02	-1.21/-0.42	1.35/-1.03	-0.70/-2.58	-3.67/-5.08	-1.93/-0.05	-0.92/-2.68	-1.41/-1.43	0.64/-1.14	0.13/-1.00	2.03/-1.82	0.40/-1.60	-3.69/-3.05	-1.69/-0.03	-0.65/-1.66	-0.57/-0.03	-0.33/-1.95	1.40/-3.45	-0.11/-0.10	-1.81/-0.93
Θ(67.5°)	-0.84/-1.87	-0.22/-1.54	-0.58/-0.17	1.42/-0.65	-1.09/-2.42	-2.36/-2.64	-0.38/-0.79	-2.36/-2.64	-3.10/-6.06	-4.47/-0.13	-1.75/-2.48	-0.51/-1.00	0.41/-1.05	0.52/-1.76	2.17/-0.97	-0.49/-1.71	-3.50/-3.75	-3.88/-1.58	-1.12/-0.82	-0.33/-0.40	-0.52/-2.69	0.26/-3.40	-0.52/-2.69	-2.23/-1.59
Θ(75°)	-6.13/-3.11	-0.10/-0.81	-0.26/-0.74	1.49/-0.04	-1.19/-2.10	-2.13/-1.72	-1.38/-0.63	-0.56/-0.30	-2.38/-5.22	-6.07/-1.07	-1.61/-2.86	-0.38/-0.86	0.50/-0.64	-1.04/-0.67	1.43/-0.56	-0.99/-1.32	-1.95/-3.11	-4.55/-1.34	-0.12/-0.23	-0.04/-2.53	-0.43/-1.19	-0.17/-2.93	-0.14/-3.09	-4.38/-3.02
Θ(82.5°)	-7.48/-7.28	-3.27/-2.99	-0.43/-0.43	0.25/-3.50	-2.10/-0.76	-1.84/-1.15	-0.62/-0.24	-1.87/-0.57	-1.72/-3.79	-7.67/-2.41	-1.72/-2.24	-1.59/-1.59	0.57/-0.88	-0.60/-1.02	0.75/-1.31	-3.35/-3.32	-2.13/-1.25	-1.65/-2.52	-0.97/-0.36	0.40/-1.44	-1.75/-0.57	-0.12/-1.37	-1.26/-4.05	-5.51/-3.33
Θ(90°)	-7.36/-6.56	-2.50/-4.03	-0.31/-0.34	0.84/-4.92	-2.41/-0.43	-0.13/-0.39	0.35/-0.69	-0.23/-1.94	-2.55/-1.51	-6.26/-4.94	-1.48/-1.51	-0.30/-0.69	-0.28/-0.01	-2.67/-1.96	-0.58/-3.47	-5.04/-4.66	-4.40/-2.54	-1.61/-2.47	-2.43/-2.01	-0.24/-1.89	-2.55/-1.68	-0.60/-0.15	-0.92/-4.98	-7.60/-4.68
Θ(97.5°)	-6.48/-6.19	-4.88/-7.26	-1.66/-2.24	-1.75/-5.96	-1.88/-0.08	-0.13/-1.44	1.25/-1.09	-1.72/-3.73	-3.47/-1.87	-5.54/-5.90	-1.70/-2.01	-2.00/-1.09	-0.27/-1.10	-3.11/-1.26	-0.81/-3.31	-6.07/-8.16	-6.08/-3.20	-2.99/-0.94	-5.16/-3.32	-3.01/-2.26	-4.17/-6.94	-2.18/-1.30	-1.89/-6.07	-11.65/-6.36
Θ(105°)	-6.33/-4.70	-6.93/-10.28	-4.64/-5.22	-5.17/-5.42	-2.80/-0.74	-1.32/-0.70	1.04/-0.02	-1.27/-2.14	-3.35/-3.09	-5.97/-5.70	-1.06/-1.58	-1.37/-2.68	-1.18/-0.86	-3.25/-3.08	-2.11/-2.95	-3.77/-9.38	-11.20/-3.63	-5.23/-3.51	-4.61/-7.67	-7.59/-3.86	-4.77/-5.94	-5.24/-5.26	-4.76/-4.61	-6.57/-4.08
Θ(112.5°)	-5.43/-6.05	-14.45/-11.56	-8.32/-7.91	-7.82/-6.33	-4.82/-2.48	-2.23/-0.45	-1.37/-2.96	-1.55/-4.59	-7.82/-6.05	-5.10/-3.22	-1.42/-1.04	-3.39/-1.78	-0.63/-2.87	-2.47/-2.66	-3.32/-2.75	-6.90/-10.09	-8.45/-6.60	-3.35/-3.07	-6.02/-7.42	-7.28/-4.76	-9.39/-6.89	-4.46/-5.92	-9.90/-12.46	-13.53/-16.38
Θ(120°)	-4.65/-7.77	-12.13/-9.42	-4.95/-5.46	-3.34/-2.85	-5.64/-3.61	-3.16/-1.89	-3.04/-5.10	-3.34/-6.35	-4.70/-3.24	-4.18/-4.40	-1.93/-2.23	-2.48/-3.16	-1.56/-1.54	-2.46/-4.16	-5.45/-3.19	-6.40/-8.97	-7.10/-9.67	-5.69/-4.36	-3.27/-6.33	-9.19/-7.58	-7.69/-6.17	-3.31/-6.97	-4.15/-2.98	-13.09/-5.47
Θ(127.5°)	-3.13/-4.43	-11.21/-12.10	-7.00/-9.25	-5.72/-5.67	-6.90/-4.17	-2.75/-4.02	-7.60/-5.76	-3.21/-5.77	-4.44/-4.74	-3.94/-3.57	-1.48/-3.81	-7.28/-1.25	-2.57/-4.10	-1.56/-10.30	-7.43/-9.18	-5.99/-6.27	-3.64/-10.47	-8.13/-12.87	-7.73/-4.28	-3.98/-12.44	-9.72/-5.41	-13.29/-11.15	-10.56/-8.95	-7.06/-7.05
Θ(135°)	-0.58/-2.18	-7.92/-13.83	-9.79/-8.77	-8.52/-8.65	-7.60/-6.74	-6.93/-7.18	-6.45/-6.73	-4.99/-7.06	-2.61/-2.56	-4.02/-2.07	-4.00/-4.53	-2.88/-2.68	-2.70/-0.80	-1.62/-5.51	-5.09/-2.11	-3.93/-7.81	-4.37/-4.17	-5.93/-9.11	-6.78/-5.53	-9.75/-13.95	-11.21/-7.23	-2.48/-7.52	-11.46/-10.19	-15.00/-4.67
Θ(142.5°)	-8.70/-6.23	-6.09/-8.19	-10.39/-9.15	-8.50/-9.01	-10.45/-14.06	-9.45/-6.98	-5.26/-5.79	-7.50/-10.87	-7.01/-5.43	-6.29/-3.74	-3.17/-5.32	-7.06/-5.42	-4.63/-5.30	-9.10/-11.18	-12.94/-12.48	-10.44/-8.04	-6.72/-9.42	-8.41/-3.16	-4.39/-9.05	-7.15/-6.62	-8.15/-8.35	-6.54/-15.54	-10.86/-6.41	-8.05/-15.19
Θ(150°)	-12.02/-10.86	-9.87/-7.07	-5.78/-6.65	-7.97/-7.67	-6.57/-5.67	-6.07/-6.49	-7.59/-9.62	-9.85/-5.90	-3.34/-3.13	-7.04/-8.74	-4.39/-4.26	-7.53/-11.49	-10.37/-8.62	-7.49/-9.59	-11.94/-7.88	-6.99/-5.58	-6.74/-7.10	-14.36/-14.79	-12.91/-13.57	-10.85/-5.34	-4.29/-6.87	-13.99/-11.05	-5.91/-6.78	
Θ(157.5°)	-15.51/-10.02	-9.89/-2.22	-10.17/-9.70	-10.01/-11.17	-8.95/-8.21	-5.19/-6.32	-8.59/-6.31	-8.01/-5.95	-4.98/-4.49	-6.17/-8.11	-7.00/-4.81	-3.81/-4.07	-6.57/-10.31	-12.26/-11.20	-8.27/-6.67	-8.51/-9.43	-9.22/-11.31	-11.36/-7.07	-4.57/-6.72	-9.06/-12.53	-7.75/-4.91	-4.66/-5.92	-9.90/-12.46	-13.53/-16.38
Θ(165°)	-13.88/-15.27	-14.67/-12.67	-11.22/-10.47	-7.50/-5.74	-4.97/-4.76	-5.07/-5.75	-6.38/-6.52	-5.23/-5.43	-4.74/-6.57	-7.58/-10.97	-10.03/-7.55	-5.39/-4.34	-4.86/-6.24	-7.34/-7.42	-7.76/-7.90	-7.77/-6.91	-5.92/-5.39	-5.32/-4.93	-5.46/-6.71	-9.48/-10.93	-8.80/-8.01	-8.24/-9.00	-9.52/-10.51	-10.35/-10.62
Θ(172.5°)	-7.85/-8.92	-8.75/-8.19	-7.74/-7.75	-7.49/-7.32	-7.67/-8.61	-9.39/-10.09	-9.37/-8.62	-8.22/-8.07	-7.40/-7.22	-6.45/-6.59	-7.04/-7.15	-7.63/-7.16	-6.65/-6.43	-5.69/-4.81	-4.57/-4.52	-4.09/-3.84	-4.37/-5.79	-7.98/-9.79	-10.22/-12.03	-15.73/-15.46	-15.24/-14.21	-13.29/-11.15	-10.56/-8.95	-7.06/-7.05
Θ(180°)	-12.81/-10.66	-9.70/-10.27	-10.34/-9.24	-9.52/-10.69	-11.21/-10.72	-10.35/-10.66	-10.97/-12.28	-11.56/-11.83	-11.91/-12.09	-12.65/-12.60	-13.13/-13.89	-15.04/-12.81	-11.14/-10.76	-10.63/-10.00	-8.79/-9.63	-11.61/-11.78	-12.79/-14.64	-15.29/-14.86	-13.97/-14.36	-15.79/-15.41	-14.87/-13.62	-12.47/-11.36	-11.81/-12.53	-14.42/-14.03
Freq(Hz)	5.6GHzPol.	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°)	0.99/0.61	0.28/-0.09	-0.02/-0.14	-0.03/-0.26	0.39/0.17	-0.03/-0.00	0.25/-0.46	0.56/-0.66	0.75/-1.07	1.07/-1.12	1.13/-1.17	1.16/-1.03	0.94/-1.09	1.01/-1.09	0.89/-1.12	1.06/-0.93	0.82/-0.86	0.93/-1.14	1.24/-1.02	0.84/-0.74	0.99/-0.49	-0.15/-0.25	0.95/-0.79	0.31/-0.00
Θ(7.5°)	-1.95/-1.93	-1.89/-2.54	-2.27/-2.20	-2.65/-2.52	-1.94/-1.78	-1.85/-1.44	-0.75/-0.05	0.15/-0.58	1.01/-1.13	1.36/-1.78	1.65/-1.36	1.41/-1.40	0.88/-0.86	1.37/-1.18	0.58/-0.77	1.08/-0.54	0.28/-0.51	-0.11/-0.08	0.12/-0.08	0.25/-0.37	-0.05/-0.46	-2.03/-2.34	-1.86/-2.20	-1.98/-2.62
Θ(15°)	-1.33/-1.10	-1.60/-1.22	-2.38/-2.16	-2.61/-3.46	-4.38/-4.48	-4.82/-5.54	-5.01/-3.12	-0.25/-1.39	-0.35/-0.75	1.31/-1.66	1.76/-1.64	1.64/-1.84	2.30/-2.68	2.63/-2.57	2.72/-2.45	2.19/-2.33	1.21/-1.53	1.60/-1.89	1.25/-					

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 6GHz U-NII 5~8

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	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°)	3.27/4.34	3.48/3.43	3.39/3.41	3.30/3.32	3.39/3.29	3.08/3.17	3.17/3.19	3.25/3.18	3.19/3.29	3.37/3.30	3.09/3.30	3.39/3.30	3.08/2.99	2.95/3.07	3.30/3.45	3.42/3.29	3.39/3.35	3.21/3.14	3.21/3.27	3.28/3.33	3.26/3.16	3.04/3.03	3.13/3.14	3.17/3.23	
Θ(7.5°)	2.91/3.14	3.08/3.11	2.91/2.92	2.78/2.73	2.62/2.42	2.23/2.27	2.34/2.43	2.35/2.41	2.83/2.96	3.34/3.50	3.85/3.98	4.10/4.19	4.13/3.93	3.70/3.91	4.31/4.46	4.28/3.43	3.98/3.92	3.81/3.71	3.61/3.46	3.37/3.34	3.26/3.00	2.63/2.45	2.42/2.61	2.79/2.90	
Θ(15°)	0.70/1.32	1.65/1.81	1.68/1.91	2.36/2.71	2.76/2.62	2.33/2.00	1.78/1.90	2.15/2.88	3.54/3.97	3.98/4.13	4.12/4.29	4.64/4.44	3.99/3.97	4.15/5.15	5.58/5.67	5.48/5.08	4.67/4.22	3.81/3.47	2.99/2.56	2.28/2.25	2.10/1.79	1.46/1.19	0.99/0.55	0.36/0.42	
Θ(22.5°)	0.26/0.49	0.10/-0.46	-0.57/-0.39	0.11/0.72	1.20/1.96	2.11/2.00	1.55/1.38	1.71/2.44	3.19/3.63	3.57/3.45	3.47/3.89	4.09/3.88	3.74/4.13	4.89/5.42	5.48/5.23	5.02/4.75	4.55/4.20	3.86/3.51	2.77/1.57	1.01/1.14	1.14/0.88	0.52/0.37	0.31/-0.12	-0.22/0.12	
Θ(30°)	-0.81/0.29	-0.30/0.71	-0.80/0.89	-0.66/-0.05	0.38/0.73	1.67/2.04	2.12/1.62	0.94/1.38	1.47/1.32	1.16/1.54	2.39/3.31	3.82/3.66	3.52/4.31	4.71/4.96	5.44/5.90	5.79/4.82	3.65/3.35	3.64/3.38	1.88/0.39	0.16/0.73	0.96/1.01	0.71/0.52	-0.13/-1.09	-1.19/-1.04	
Θ(37.5°)	-4.10/-3.30	-3.60/-4.69	-5.10/-3.07	-0.92/0.26	0.63/0.37	0.89/1.80	1.74/0.98	0.67/0.83	0.77/-0.72	-1.03/0.55	1.62/2.76	3.83/3.97	4.43/4.14	3.89/4.92	5.24/4.81	4.13/3.64	3.53/3.39	3.01/2.51	1.14/-0.36	0.11/0.59	0.59/0.64	0.70/0.78	0.29/-1.05	-2.14/-3.17	
Θ(45°)	-2.83/-3.42	-2.78/-5.26	-7.11/-4.21	-1.06/-1.40	1.90/0.78	1.15/2.18	2.36/2.38	2.18/1.26	-0.04/-1.64	-2.32/-1.28	-1.29/0.41	1.35/2.70	3.17/3.38	3.96/4.17	3.82/3.18	2.85/3.46	3.55/3.73	3.95/3.98	1.52/0.79	0.46/0.94	0.85/0.72	-0.22/0.20	-0.09/-0.82	-2.09/-3.06	
Θ(52.5°)	-4.31/-2.54	-2.50/-3.88	-5.46/-4.00	-2.26/0.05	1.61/0.89	1.22/2.53	2.93/3.34	3.41/2.61	1.47/-0.41	-0.35/-1.41	-3.64/-2.09	-0.59/0.34	1.20/2.93	3.97/3.63	3.76/3.18	2.43/3.93	4.64/3.61	2.54/1.23	-0.10/-0.70	0.14/0.59	0.08/0.49	0.03/0.65	0.82/-0.86	-2.54/-4.52	
Θ(60°)	-4.98/-3.32	-3.51/-1.12	-6.38/-3.97	-2.50/-0.49	1.51/1.69	0.97/1.65	2.55/2.69	3.15/2.43	2.40/1.83	2.02/0.25	-1.96/-1.05	-1.50/-1.60	-1.43/1.02	2.45/2.43	1.96/3.11	1.79/1.55	3.03/2.24	1.06/-0.82	-1.39/-1.59	-1.64/-0.58	-0.98/-0.79	0.45/-0.14	-1.30/-1.79	-4.21/-6.50	
Θ(67.5°)	-6.24/-4.13	-4.43/-6.67	-4.97/-3.33	-3.88/-3.22	1.23/1.47	0.92/1.78	2.48/2.07	2.63/1.99	2.29/2.02	2.42/0.18	-1.34/-1.52	-2.77/-4.11	-2.64/-2.56	0.77/0.54	0.90/0.89	0.03/-0.16	0.30/-0.17	-0.62/-3.24	-3.36/-2.22	-1.13/-1.21	-0.93/-1.67	-0.82/-2.09	-3.56/-4.03	-3.56/-5.83	
Θ(75°)	-5.46/-4.04	-3.83/-7.21	-5.55/-4.17	-5.34/-3.21	-0.11/1.16	1.32/1.36	1.98/1.63	2.67/1.30	1.80/1.65	0.43/-1.43	-3.39/-2.73	-3.38/-3.63	-2.44/-3.91	-1.25/-0.52	-2.01/-1.07	-1.20/-1.63	-1.24/-1.00	-0.58/-2.83	-3.58/-1.45	-1.21/-1.55	-2.01/-3.82	-2.26/-4.34	-4.21/-5.03	-4.58/-4.97	
Θ(82.5°)	-6.32/-4.80	-4.73/-6.22	-4.19/-4.81	-5.86/-2.40	-1.86/-0.58	-0.64/-0.78	-0.26/-0.22	0.81/0.76	0.46/0.44	-0.69/-2.48	-4.38/-4.56	-5.93/-7.02	-8.30/-7.96	-4.98/-1.89	-6.22/-7.15	-1.54/0.15	-0.17/-0.76	-0.62/-2.74	-1.77/-1.70	-1.14/-3.07	-4.48/-6.64	-2.80/-3.80	-4.69/-5.17	-5.35/-4.08	
Θ(90°)	-8.00/-3.81	-2.80/-5.98	-6.60/-5.48	-6.25/-4.22	-2.87/-0.29	-0.95/-2.87	-1.33/-1.38	0.04/0.59	0.15/-1.48	-2.29/-3.22	-5.41/-5.61	-5.98/-9.02	-9.75/-8.69	-8.47/-4.69	-9.17/-11.70	-1.93/-1.18	1.31/-2.02	-2.79/-4.62	-3.51/-1.92	-1.81/-0.59	-6.23/-7.96	-5.75/-4.59	-4.51/-6.04	-6.68/-6.36	
Θ(97.5°)	-7.65/-3.61	-5.06/-4.80	-7.69/-5.25	-6.16/-5.29	-6.19/-2.49	-2.82/-3.51	-3.68/-4.13	-3.05/-4.85	-4.16/-3.15	-2.56/-4.41	-7.84/-8.90	-10.54/-10.23	-12.91/-11.49	-11.57/-7.34	-12.85/-10.49	-1.42/-0.59	-1.74/-6.45	-6.39/-9.25	-6.11/-3.33	-4.64/-5.14	-7.01/-7.04	-5.59/-4.17	-3.91/-6.77	-7.07/-6.24	
Θ(105°)	-6.25/-3.19	-5.44/-7.81	-6.85/-6.06	-7.89/-7.66	-7.99/-3.53	-4.26/-4.35	-6.49/-6.29	-6.18/-6.84	-7.15/-7.36	-4.52/-6.14	-8.41/-9.33	-11.42/-10.63	-14.49/-10.04	-9.38/-5.85	-13.17/-11.73	-6.58/-4.05	-8.80/-15.16	-8.40/-14.32	-8.74/-6.70	-6.01/-5.64	-7.21/-6.28	-4.24/-3.29	-3.84/-8.02	-7.48/-7.54	
Θ(112.5°)	-7.68/-6.16	-6.38/-6.33	-6.00/-7.50	-11.27/-10.76	-6.45/-5.96	-5.91/-3.75	-5.40/-5.66	-7.08/-5.46	-7.53/-8.82	-7.25/-6.72	-5.78/-8.08	-10.56/-10.61	-9.56/-14.09	-12.30/-12.89	-8.65/-6.91	-7.15/-12.56	-13.74/-7.57	-12.23/-14.72	-15.75/-5.42	-5.01/-4.89	-5.63/-3.66	-3.65/-4.13	-4.40/-8.63	-7.11/-8.14	
Θ(120°)	-11.02/-10.22	-9.14/-8.48	-6.90/-12.17	-10.18/-9.58	-8.72/-8.31	-7.98/-5.82	-3.73/-3.30	-4.54/-4.83	-10.58/-12.31	-10.93/-7.87	-8.36/-8.03	-6.69/-11.38	-12.88/-15.22	-6.48/-11.83	-8.12/-7.70	-6.24/-3.99	-7.92/-5.72	-5.56/-8.03	-7.63/-3.02	-3.21/-3.37	-6.30/-3.18	-1.02/-6.46	-6.53/-6.67	-7.29/-9.02	
Θ(127.5°)	-14.18/-11.53	-12.94/-8.16	-8.56/-9.33	-12.22/-11.51	-10.56/-10.96	-1.18/-7.43	-4.46/-4.26	-3.75/-4.10	-9.68/-9.84	-8.44/-10.25	-12.25/-8.02	-10.77/-11.02	-12.23/-10.82	-10.74/-9.51	-11.57/-5.27	-5.29/-2.96	-5.60/-5.86	-4.25/-1.20	-7.21/-8.32	-3.90/-3.12	-2.50/-6.92	-8.77/-5.22	-2.10/-2.95	-9.02/-5.40	-7.61/-7.96
Θ(135°)	-13.48/-12.05	-9.33/-11.49	-9.43/-13.12	-14.28/-13.03	-11.80/-12.84	-14.86/-12.10	-11.57/-8.06	-4.57/-5.60	-10.58/-9.67	-7.04/-6.43	-10.77/-7.81	-7.07/-11.41	-8.78/-11.72	-3.73/-4.58	-7.72/-5.99	-11.53/-8.45	-3.45/-3.55	-10.30/-11.08	-5.64/-5.24	-5.47/-11.30	-9.71/9.91	-2.96/-6.55	-7.54/-8.74	-10.66/-8.82	
Θ(142.5°)	-11.21/-10.55	-8.49/-8.43	-9.00/-10.60	-14.03/-13.02	-12.40/-11.92	-10.41/-10.29	-11.50/-9.03	-7.01/-7.10	-9.17/-8.03	-8.47/-6.90	-9.93/-15.49	-10.44/-12.03	-8.28/-7.54	-5.88/-8.90	-13.04/-5.23	-7.45/-6.31	-3.36/-0.63	-13.22/-10.68	-6.43/-6.30	-5.22/-7.32	-10.52/-9.80	-7.34/-7.29	-9.02/-9.97	-13.87/-12.31	
Θ(150°)	-2.96/-9.76	-8.46/-8.49	-8.30/-9.07	-10.46/-10.77	-10.59/-10.70	-11.46/-13.59	-15.22/-13.92	-10.57/-9.13	-11.07/-14.50	-14.45/-11.94	-12.78/-13.80	-12.23/-10.82	-10.74/-9.01	-7.44/-10.00	-11.57/-9.44	-10.18/-9.47	-8.45/-7.99	-11.10/-13.63	-8.59/-8.73	-10.60/-8.31	-2.80/-3.23	-8.50/-10.49	-12.09/-15.40	-12.92/-14.74	
Θ(157.5°)	-13.74/-13.48	-13.56/-12.83	-11.97/-13.08	-15.17/-15.21	-15.10/-15.16	-15.85/-14.33	-11.08/-9.09	-7.94/-7.84	-8.75/-11.05	-11.56/-11.22	-15.65/-14.22	-12.59/-12.32	-13.06/-13.48	-13.71/-14.82	-15.49/-13.88	-13.76/-14.65	-14.96/-14.83	-14.94/-10.51	-7.38/-7.92	-11.76/-13.56	-13.46/-13.29	-14.82/-14.94	-15.37/-14.91	-15.87/-13.63	
Θ(165°)	-10.70/-10.67	-11.06/-10.56	-9.37/-10.31	-9.56/-9.73	-7.37/-7.30	-8.00/-9.40	-10.16/-10.01	-9.71/-11.08	-13.37/-15.91	-15.30/-13.39	-8.34/-6.62	-7.22/-9.53	-12.85/-15.04	-15.02/-11.75	-10.24/-9.62	-9.91/-10.55	-11.43/-12.02	-14.44/-13.40	-12.57/-12.69	-10.65/-10.71	-12.37/-12.69	-12.10/-11.73	-10.96/-10.02	-9.39/-9.30	
Θ(172.5°)	-8.84/-9.18	-8.81/-8.82	-10.43/-9.99	-9.10/-10.19	-11.01/-11.81	-11.73/-12.18	-12.86/-14.39	-15.16/-13.24	-10.67/-8.76	-7.91/-7.73	-7.93/-9.00	-15.85/-15.36	-15.25/-15.29	-14.72/-14.36	-14.79/-15.62	-15.80/-15.72	-15.85/-16.15	-15.21/-14.71	-13.56/-12.26	-11.46/-12.61	-10.32/-8.38	-7.23/-8.12			
Θ(180°)	-10.76/-10.19	-8.98/-9.44	-10.33/-9.99	-10.35/-11.37	-11.56/-11.29	-10.40/-10.40	-11.14/-12.63	-12.42/-12.17	-11.09/-10.72	-10.26/-9.97	-9.91/-9.77	-9.28/-9.17	-8.93/-8.52	-7.95/-8.01	-8.42/-8.85	-9.47/-9.86	-9.46/-9.35	-9.51/-9.98	-9.98/-9.43	-9.46/-9.18	-8.59/-8.70	-8.77/-8.33	-8.83/-9.43	-10.07/-10.43	
Freq(Hz)	6.475GPol.	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°)	1.43/1.31	1.41/1.61	2.00/2.18	1.96/2.01	2.23/2.40	2.55/2.49	2.22/1.98	1.67/1.46	1.50/1.56	1.57/1.37	0.91/0.82	1.33/1.63	1.61/1.52	1.83/1.96	2.04/2.27	2.22/2.16	2.19/2.34	2.37/2.43	2.28/2.05	1.94/1.63	1.45/1.16	1.00/0.86	0.57/0.63	1.18/1.48	
Θ(7.5°)	0.83/0.96	0.92/0.78	0.69/0.97	1.20/1.09	0.80/0.73	0.83/1.08	1.12/0.94	0.46/0.24	0.34/0.27	0.73/1.14	1.46/1.40	1.48/1.77	2.43/2.60	2.55/2.68	2.97/3.14	3.32/3.32	3.16/3.15	3.06/2.88	2.84/2.68	2.31/2.09	1.77/1.40	1.10/1.04	0.65/0.27	0.46/0.86	
Θ(15°)	0.69/0.58	-0.21/-0.18	-0.60/-1.23	-1.04/-0.71	-0.53/-0.24	0.38/1.08	1.53/1.36	1.14/1.13	1.19/1.43	1.99/2.53	2.64/2.31	1.90/1.51	1.73/2.25	2.39/3.14	3.76/3.93	3.99/3.92	3.80/3.64	3.34/3.33	3.21/3.09	3.03/3.04	3.03/3.05	2.89/2.43	1.64/0.96	0.92/0.93	
Θ(22.5°)	0.68/0.07	-0.94/0.91	-1.08/-1.71	-1.53/-1.07	-1.55/-1.42	-0.45/0.95	1.75/1.80	1.30/1.54	2.26/3.02	3.18/2.71	2.26/1.97	1.89/2.19	2.22/2.18	2.85/3.49	3.74/3.68	3.51/3.49	3.63/3.83	3.68/3.25	2.83/2.47	2.40/2.58	2.74/2.73	2.36/1.67	1.14/0.86	0.77/0.92	
Θ(30°)	-3.13/-3.33	-3.18/-3.36	-3.88/-3.49	-2.39/-0.65	0.15/-0.35	-0.28/0.66	1.48/1.37	0.62/0.29	0.87/1.74	1.58/2.15	2.75/3.20	3.07/2.84	1.72/2.64	3.44/3.09	3.00/3.06	3.26/3.53	3.58/4.03	4.11/3.36	2.66/2.75	3.17/3.31	3.11/1.52	-0.21/-1.47	-1.72/-1.58	-2.22/-3.32	
Θ(37.5°)	-8.56/-8.80	-8.61/-7.06	-5.47/-3.84	-2.99/-0.91	0.32/-0.59	-0.12/-0.97	-0.51/-0.48	-0.47/0.06	1.63/1.48	1.37/2.14	3.73/4.20	4.02/2.59	2.19/2.86	2.11/3.											



Antenna Pattern 6GHz U-NII 5~8

Appendix D

Θ(22.5°)	-3.83/3.64	-2.91/2.64	-2.24/2.40	-2.84/-4.47	-6.29/-5.89	-5.38/-5.66	-4.92/3.75	-3.24/-2.59	-1.61/-0.97	-1.17/-1.97	-2.29/2.52	-2.46/-1.50	-1.18/-1.51	-2.24/3.26	-4.50/-6.76	-7.90/-6.58	-5.62/-5.79	-5.54/3.25	-1.11/0.62	1.31/0.95	0.44/-0.09	-0.98/-2.00	-2.38/-2.47	-3.04/-3.18
Θ(30°)	-2.18/2.85	-2.85/-2.21	-1.79/-1.42	-2.74/-5.80	-4.85/-2.97	-3.42/-4.73	-5.39/-4.85	-5.15/-4.24	-3.13/-1.25	-1.36/-1.40	-1.87/-1.08	-0.15/0.76	1.28/0.09	-0.44/-1.38	-2.41/-4.19	-6.15/-10.48	-9.36/-8.78	-6.43/-4.41	-3.42/-2.84	-0.64/-0.55	-1.47/-2.50	-3.65/-4.33	-3.89/-2.87	-1.97/-1.83
Θ(35°)	-1.20/-1.12	-2.17/-2.25	-2.01/-1.25	-4.54/-5.71	-3.83/-1.78	-2.63/-4.83	-4.66/-4.13	-4.72/-4.72	-5.40/-5.32	-3.46/-2.22	-2.88/-1.32	-0.91/-0.80	-1.88/-4.41	-3.15/-0.71	0.35/0.53	-1.51/-4.17	-5.45/-2.34	-2.15/-1.80	-0.61/-0.83	-1.41/-3.27	-4.10/-4.06	-1.46/0.23	-0.70/0.18	
Θ(45°)	0.39/0.78	0.24/-1.75	-0.25/0.37	-3.05/-6.85	-4.24/-2.46	-3.26/-4.59	-4.32/-3.12	-2.31/-2.46	-1.79/-1.57	-1.81/-2.26	-4.05/-3.90	-5.17/-3.02	-3.83/-6.05	-3.99/-0.96	0.73/1.58	0.65/-1.70	-3.89/-1.99	-0.69/-0.14	-0.75/-0.63	0.39/0.10	-1.02/-2.15	-0.75/-1.41	1.60/2.51	2.31/1.46
Θ(52.5°)	1.41/2.45	1.48/-1.30	1.46/1.38	-2.59/-5.48	-4.06/-3.48	-4.34/-2.94	-2.84/-2.39	-1.02/-1.50	-0.91/0.14	-0.88/-2.82	-6.56/-11.03	-3.90/-1.80	-1.35/-1.51	-0.33/0.84	1.47/1.23	0.37/-1.73	-5.29/-3.21	-0.63/-1.08	1.64/0.84	0.87/0.19	-1.87/-1.90	1.48/2.84	3.10/2.99	1.88/2.00
Θ(60°)	2.18/2.18	2.19/0.45	2.16/1.66	-1.59/-3.76	-3.92/-3.73	-2.78/-1.11	-0.47/-0.53	0.44/0.05	-1.02/-0.75	-0.30/-0.76	-4.30/-2.08	-2.45/0.09	-2.64/1.39	1.01/1.83	1.77/0.15	-0.70/-2.47	-4.89/-4.68	-1.10/1.32	1.52/0.81	0.03/-0.36	-1.20/-1.49	1.30/1.40	2.14/2.04	0.79/1.22
Θ(67.5°)	2.09/2.69	2.15/0.25	1.76/1.36	-0.83/-2.04	-2.48/-1.91	0.12/1.30	1.37/1.34	1.87/1.29	-1.35/-1.55	-1.16/-1.03	-2.84/-2.42	-1.49/0.03	2.66/1.84	2.07/2.25	0.58/-2.06	-2.93/-3.45	-5.54/-6.74	-2.23/0.22	0.61/0.90	-0.46/-0.81	-0.95/-0.70	1.87/1.56	0.32/0.82	-0.74/0.63
Θ(75°)	1.00/1.64	1.62/0.83	0.93/-0.03	0.15/-1.67	-1.46/-0.45	1.09/2.09	2.31/1.54	1.41/1.10	-1.99/-3.23	-1.35/-2.79	-3.13/-1.57	-0.42/0.15	2.30/1.84	2.43/2.11	-0.37/-3.00	-3.41/-1.90	-5.17/-7.35	-1.35/-1.40	-0.00/-0.10	-0.15/-1.20	-1.53/-0.08	1.65/0.70	-0.67/-0.29	-0.78/0.30
Θ(82.5°)	0.16/0.54	1.43/0.49	-0.36/-0.70	0.05/-0.74	-0.57/0.35	2.00/1.52	1.46/0.80	0.90/1.42	-3.85/-3.43	-2.61/-3.11	-3.57/-2.51	-1.38/0.16	1.63/1.08	0.85/0.37	-1.39/-4.60	-3.27/-1.34	-3.04/-2.81	0.41/2.70	1.09/0.16	1.35/0.08	-2.67/-0.83	-0.64/-0.95	-2.11/-1.09	-2.44/-1.12
Θ(90°)	-0.42/0.20	0.25/0.39	-0.73/-1.39	-0.09/-0.99	-0.10/1.31	2.18/0.86	0.89/-0.23	-0.99/0.59	-3.87/-4.49	-4.44/-4.72	-5.68/-5.16	-1.21/0.37	1.33/1.28	1.10/-0.30	-2.24/-3.71	-8.45/-2.42	-2.86/-2.17	-0.25/2.27	1.27/0.39	2.15/0.92	-2.61/-3.03	-1.64/-1.74	-2.78/-1.86	-3.90/-2.75
Θ(97.5°)	-3.31/-1.51	-0.82/0.32	-0.75/-2.44	-0.70/-0.44	-0.10/0.86	1.29/-1.27	-0.26/-0.44	-1.67/-0.26	-4.80/-4.98	-5.46/-6.61	-6.38/-4.46	-2.63/-1.82	0.16/1.93	0.26/-1.50	-3.18/-3.58	-10.14/-5.40	-4.88/-4.05	-2.75/0.82	-0.90/0.48	1.12/-1.29	-3.95/-6.84	-2.88/-4.18	-4.58/-2.95	-4.56/-0.46
Θ(105°)	-3.30/-4.04	-2.22/-0.75	-0.67/-3.06	-0.64/-0.46	-0.97/-0.48	-0.15/-1.04	-2.43/-2.99	-3.00/-1.85	-3.61/-4.97	-6.64/-6.68	-6.42/-5.71	-2.92/-2.56	-0.84/-1.45	-0.13/-0.74	-2.62/-1.76	-13.71/-9.02	-9.90/-6.35	-8.78/-4.90	-5.43/-5.01	-6.55/-5.51	-9.49/-8.68	-3.64/-5.86	-7.30/-5.07	-5.26/-5.39
Θ(112.5°)	-3.96/-5.31	-3.43/-2.08	-1.59/-1.78	-1.77/-0.25	-2.55/-2.49	-3.52/-3.88	-4.52/-5.12	-4.98/-3.94	-1.67/-4.50	-4.93/-4.69	-5.87/-7.12	-6.45/-3.23	-1.20/-0.65	-2.50/-2.85	-4.25/-8.38	-8.25/-11.51	-14.35/-9.09	-13.51/-7.64	-5.07/-11.50	-9.04/-12.39	-7.87/-8.90	-8.42/-8.18	-6.71/-8.80	-9.26/-4.60
Θ(120°)	-2.15/-4.71	-3.67/-1.41	-1.53/-2.65	-1.00/-0.78	-2.55/-6.37	-7.50/-7.30	-5.32/-7.78	-10.59/-4.34	-2.84/-4.09	-3.49/-3.48	-6.08/-4.28	-6.12/-5.99	-6.16/-8.07	-8.13/-7.39	-10.89/-6.97	-4.90/-3.20	-2.06/-9.56	-6.57/-6.25	-6.13/-6.93	-7.65/-6.93	-5.97/-5.01	-8.24/-5.75	-5.95/-5.54	
Θ(127.5°)	-2.08/-3.97	-2.77/-2.52	-0.62/-1.18	-2.89/-1.95	-3.42/-7.96	-11.41/-9.29	-10.08/-15.62	-12.10/-6.05	-0.02/-5.96	-7.61/-6.05	-4.26/-4.83	-5.13/-5.73	-9.88/-11.00	-11.11/-13.48	-5.94/-13.10	-9.74/-6.84	-10.34/-11.05	-6.35/-6.12	-8.97/-14.04	-7.92/-10.97	-9.47/-7.13	-2.70/-6.71	-7.49/-2.68	
Θ(135°)	-2.35/-1.16	-0.51/-0.76	-1.78/-2.41	-2.74/-4.65	-6.81/-10.12	-11.02/-9.13	-10.54/-12.46	-10.37/-6.36	-4.25/-3.18	-2.96/-2.82	-3.54/-4.14	-3.79/-2.27	-2.35/-6.98	-9.51/-9.15	-8.96/-9.91	-10.76/-4.81	-7.02/-13.11	-9.08/-15.06	-8.96/-7.24	-14.11/-6.76	-14.33/-7.03	-12.25/-4.22	-4.20/-6.78	-5.52/-3.17
Θ(142.5°)	-3.90/-1.45	-0.28/-0.09	-2.95/-2.76	-4.28/-5.41	-6.94/-7.34	-9.11/-10.74	-11.64/-9.00	-5.31/-3.48	-2.45/-2.02	-1.80/-1.71	-1.82/-5.50	-7.58/-5.72	-3.98/-8.07	-6.91/-8.07	-8.41/-5.93	-12.36/-6.83	-5.55/-8.27	-9.63/-8.90	-11.29/-6.64	-5.71/-3.86	-4.43/-3.94	-6.51/-5.60	-7.59/-5.54	
Θ(150°)	-7.63/-3.62	-1.91/-2.36	-4.00/-4.96	-4.83/-6.16	-6.83/-6.28	-5.41/-5.74	-6.30/-7.67	-6.99/-3.84	-2.10/-1.88	-3.19/-3.77	-2.94/-3.62	-5.46/-5.44	-5.81/-5.40	-7.53/-5.99	-5.05/-10.91	-11.15/-7.42	-7.93/-14.10	-13.05/-9.09	-8.80/-9.63	-10.08/-10.08	-10.11/-8.02	-6.02/-4.64	-5.35/-6.72	
Θ(157.5°)	-8.23/-6.50	-5.64/-6.46	-8.37/-8.54	-6.41/-4.14	-3.24/-4.03	-5.65/-6.02	-5.76/-7.26	-8.35/-6.79	-5.34/-4.66	-4.16/-3.31	-2.38/-2.59	-3.88/-5.24	-5.87/-8.10	-12.05/-12.24	-11.14/-10.20	-8.39/-8.34	-10.48/-10.65	-9.16/-9.10	-8.94/-8.89	-10.25/-10.62	-11.38/-9.76	-7.87/-7.68	-7.58/-7.37	-6.73/-7.68
Θ(165°)	-7.27/-5.93	-5.53/-5.38	-6.09/-6.33	-4.83/-3.07	-2.34/-2.64	-2.83/-3.10	-4.55/-6.03	-5.42/-4.96	-5.38/-4.88	-3.94/-3.77	-4.59/-4.59	-7.29/-9.64	-11.77/-11.01	-9.48/-9.33	-10.76/-14.61	-14.51/-13.04	-9.33/-6.70	-6.12/-5.83	-4.86/-6.25	-7.59/-6.64	-6.60/-6.74	-7.56/-6.86	-8.89/-8.90	-8.55/-8.39
Θ(172.5°)	-9.15/-8.00	-7.94/-6.99	-7.27/-7.47	-6.50/-5.97	-5.99/-5.72	-5.69/-5.47	-5.74/-5.50	-5.31/-5.86	-7.16/-8.80	-9.91/-10.93	-13.03/-15.23	-14.88/-13.95	-12.65/-12.71	-12.00/-12.23	-13.20/-14.78	-15.08/-14.94	-15.02/-14.19	-14.48/-14.78	-14.90/-15.50	-14.85/-14.19	-15.59/-15.82	-13.82/-11.14	-8.89/-7.82	-8.28/-9.34
Θ(180°)	-7.78/-7.53	-7.90/-7.90	-7.41/-7.03	-7.01/-6.94	-6.71/-7.19	-7.56/-6.96	-6.14/-6.00	-6.33/-7.29	-8.25/-8.45	-8.91/-7.66	-10.31/-9.71	-9.45/-9.51	-8.91/-7.66	-6.81/-6.24	-7.60/-7.27	-7.48/-7.13	-7.10/-7.56	-7.28/-6.35	-5.81/-5.42	-5.38/-5.76	-5.67/-6.08	-5.95/-6.00	-5.73/-5.43	-6.16/-7.26
Freq(Hz)	6.475GPol.	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°)	-11.16/-11.96	-11.58/-11.92	-11.61/-12.66	-13.29/-12.61	-12.11/-12.20	-10.38/-10.04	-10.87/-11.36	-10.58/-10.01	-9.89/-10.23	-10.70/-10.96	-10.55/-11.01	-10.89/-10.31	-10.38/-10.22	-9.68/-8.94	-9.21/-10.21	-9.62/-9.22	-9.65/-9.71	-9.24/-9.66	-9.83/-8.70	-8.76/-10.50	-12.25/-12.82	-12.57/-10.97	-10.48/-11.01	-10.93/-10.27
Θ(7.5°)	-15.12/-15.33	-14.18/-12.55	-11.49/-10.80	-9.26/-8.64	-8.55/-7.74	-7.38/-7.87	-7.91/-7.56	-7.26/-6.93	-6.11/-5.79	-6.24/-6.71	-6.42/-6.41	-6.90/-6.53	-6.65/-6.80	-6.35/-6.57	-5.01/-5.04	-5.68/-6.46	-7.32/-8.04	-9.13/-12.12	-14.91/-14.08	-15.25/-14.23	-15.80/-15.82	-14.99/-15.70	-15.43/-15.16	-15.25/-15.82
Θ(15°)	-13.13/-15.38	-13.46/-10.15	-10.09/-8.99	-7.30/-6.63	-7.35/-8.24	-8.93/-7.95	-7.41/-7.83	-6.22/-3.93	-3.56/-3.27	-2.33/-2.34	-2.81/-3.44	-3.60/-3.38	-4.16/-4.94	-5.78/-7.44	-6.50/-7.79	-7.05/-6.80	-7.57/-9.14	-9.24/-13.50	-15.08/-14.53	-12.05/-7.99	-8.03/-8.11	-7.80/-7.60	-7.96/-9.33	-11.41/-11.83
Θ(22.5°)	-4.99/-8.16	-10.30/-8.51	-7.22/-5.86	-5.76/-7.17	-9.45/-12.66	-12.26/-8.04	-6.42/-8.39	-6.21/-3.37	-3.82/-3.28	-1.08/-0.36	-1.95/-3.41	-2.64/-2.24	-3.26/-5.87	-8.52/-8.12	-6.16/-4.73	-5.20/-6.27	-7.60/-10.47	-14.15/-11.41	-6.94/-4.99	-4.37/-3.69	-3.95/-4.05	-4.24/-3.57	-2.78/-2.99	-3.46/-4.01
Θ(30°)	-3.09/-2.72	-3.29/-4.58	-4.98/-3.80	-4.64/-6.90	-10.40/-9.40	-5.85/-4.00	-4.21/-5.53	-5.80/-5.53	-6.04/-6.68	-4.81/-2.75	-1.87/-3.20	-2.10/-1.10	-1.94/-3.84	-5.60/-5.00	-5.12/-4.67	-5.32/-5.58	-11.12/-10.74	-11.76/-8.15	-5.65/-4.84	-4.18/-2.81	-2.07/-1.65	-1.64/-1.78	-2.10/-1.78	-2.07/-3.00
Θ(37.5°)	-2.35/-0.27	-0.46/-2.64	-2.85/-1.97	-2.26/-4.01	-5.69/-5.32	-4.68/-4.43	-4.95/-9.68	-10.36/-5.50	-3.64/-3.41	-3.83/-3.81	-2.74/-3.11	-3.46/-2.02	-1.57/-1.43	-4.34/-5.29	-3.12/-2.32	-4.47/-8.94	-6.83/-4.42	-3.26/-1.91	-0.87/-0.67	-3.22/-3.72	-2.78/-1.99	-2.30/-2.02	-2.55/-3.48	
Θ(45°)	-0.23/0.01	0.34/-0.89	-0.75/-0.74	-0.55/-3.17	-4.03/-2.93	-4.35/-3.25	-3.61/-5.56	-7.83/-3.98	-2.60/-0.02	-1.25/-0.82	-0.53/-2.53	-5.70/-5.75	-3.62/-1.78	-4.02/-5.43	-2.30/-1.17	-2.29/-6.53	-8.57/-6.73	-5.65/-2.10	-0.64/0.09	1.41/0.51	-3.07/-4.84	-2.85/-2.32	-2.60/-1.44	-1.61/-1.74
Θ(52.5°)	1.08/1.71	0.73/0.40	0.08/-1.06	-1.16/-3.18	-2.60/-2.66	-2.96/-2.71	-2.86/-3.52	-4.67/-3.50	-1.86/-3.04	-0.54/-1.14	-0.71/-1.94	-7.40/-7.06	-3.94/-2.73	-2.77/-2.93	-1.38/0.50	-1.87/-12.47	-7.39/-7.12	-5.56/-2.58	-0.19/0.76	1.40/0.36	-3.42/-8.58	-3.02/-1.07	-0.97/-0.64	0.35/0.34
Θ(60°)	1.95/1.24	0.06/0.94	-0.01/-1.10	-1.01/-2.19	-1.16/-1.92	-2.01/-0.48	-1.68/-3.25	-3.70/-2.44	-1.67/-1.32	-2.15/-2.35	-1.86/-3.34	-3.90/-4.05	-1.73/0.08	0.09/-1.35	-1.66/1.14	-1.07/-5.95	-6.19/-5.36	-5.41/-3.88	-0.23/0.73	-0.01/-1.05	-3.62/-8.28	-2.18/-0.91	-0.89/0.13	1.29/1.80
Θ(67.5°)	1.57/0.62	-0.77/0.29	-1.22/-1.30	-1.21/-1.02	0.67/0.57	0.09/-0.46	-1.83/-3.41	-3.91/-1.31	-0.62/-1.20	-0.98/-1.84	-3.84/-3.78	-0.14/-0.16	-0.43/0.90	0.38/-2.36	-1.76/1.03	0.42/-5.06	-5.36/-2.22	-1.80/-0.67	-1.48/-2.71	-4.77/-9.93	-1.40/-2.23	-2.35/-0.73	-0.51/-1.25	
Θ(75°)	1.54/0.94	-1.26/-0.67	-0.61/-1.21	-1.63/-0.74	-0.05/0.63	0.80/1.29	0.26/-3.37	-2.23/-1.05	-0.23/0.11	-1.07/-1.78	-3.54/-2.34	0.50/0.65	0.26/-1.23	0.44/-2.99	-3.81/-2.00	-1.05/-5.53	-5.42/-1.89	-5.80/-5.18	-2.06/-1.38	-1.93/-3.00	-5.75/-5.98	-3.17/-6.51		



Antenna Pattern 6GHz U-NII 5~8

Appendix D

θ(75°)	3.74/2.12	1.68/1.54	-1.60/-1.01	-2.15/-0.76	-0.01/0.44	-0.23/0.61	-0.79/-1.72	2.11/2.83	1.03/-0.05	0.39/-1.67	-1.72/0.62	0.16/1.23	2.12/0.50	-1.40/-4.04	-9.31/-4.76	-4.90/-13.30	-3.51/-3.20	-1.21/0.23	-3.76/-2.13	-1.01/-1.09	-3.09/-1.74	1.07/1.82	1.61/1.99	2.35/3.70
θ(82.5°)	2.90/1.90	1.09/1.71	-1.72/-1.33	-1.78/-0.47	0.18/0.87	0.91/0.09	-1.67/-2.39	2.13/2.63	0.39/-0.73	-0.36/-2.00	0.28/0.60	0.56/-0.76	-2.43/-4.92	-10.01/-3.56	-5.49/-13.99	-5.65/-2.97	-1.14/-1.18	-3.17/-0.20	1.26/-0.40	-2.22/-1.26	0.24/-0.10	0.10/1.23	2.13/3.10	
θ(90°)	2.16/1.83	1.19/1.46	-1.99/-1.38	-1.94/-0.09	-0.23/0.91	0.17/0.19	-1.95/-3.32	1.07/2.55	-0.38/-0.59	-0.77/-1.18	-2.60/-0.62	0.06/-0.10	-0.18/-0.79	-2.44/-6.49	-0.89/-4.59	-7.01/-9.45	-1.34/-4.75	-0.20/-1.05	1.32/0.20	-0.26/-1.90	-1.41/-2.92	-0.34/-1.17	2.55/2.19	
θ(97.5°)	1.53/1.17	0.95/0.68	-2.25/-2.45	-2.03/-0.14	-0.55/0.67	1.35/-0.86	-1.29/-3.51	-0.31/-1.76	1.02/1.33	-1.14/-1.34	-4.19/-2.26	-0.67/-2.02	-1.78/-0.98	-3.33/-6.65	-5.56/-7.56	-6.80/-9.69	-13.37/-8.27	-6.43/-2.59	-2.13/-0.08	-0.55/-2.02	-1.02/-3.60	-4.39/-4.54	0.72/2.27	
θ(105°)	0.63/0.08	0.76/-0.54	-2.73/-2.02	-2.41/-0.82	-2.40/-5.1	0.95/-0.24	-1.63/-3.33	-1.13/-1.06	0.52/-1.58	-2.01/-1.73	-2.20/-3.48	-3.08/-0.40	-3.38/-5.34	-3.94/-6.95	-5.88/-9.62	-12.67/-15.18	-7.73/-6.75	-6.13/-6.68	-7.05/-9.09	-5.03/-7.11	-8.67/-5.34	0.82/1.39	1.21/0.93	
θ(112.5°)	-1.81/-1.80	-1.55/-1.70	-2.52/-1.81	-2.34/-1.13	-3.31/-1.73	-0.99/-1.87	-2.17/-2.56	-1.98/-1.18	-0.85/-1.83	-2.22/-2.01	-4.02/-4.88	-5.53/-3.88	-2.96/-3.31	-4.36/-2.91	-7.05/-10.58	-8.48/-9.66	-9.97/-8.86	-4.47/-8.34	-11.19/-9.20	-9.24/-11.35	-10.68/-5.49	-1.83/-2.56	-1.26/0.98	
θ(120°)	-5.09/-3.06	-2.42/-2.73	-1.89/-0.94	-1.19/-1.98	-5.11/-3.81	-3.05/-4.06	-3.77/-1.45	-1.21/-1.41	-1.31/-1.16	-2.73/-4.16	-4.35/-6.11	-6.88/-3.53	-3.45/-3.63	-5.48/-2.88	-3.80/-6.95	-6.88/-12.56	-10.09/-7.61	-8.56/-12.37	-4.17/-2.98	-8.41/-4.77	-5.37/-10.39	-9.56/-10.14	-8.66/-10.94	
θ(127.5°)	-4.08/-3.23	-1.70/-0.69	-1.22/-0.36	-0.92/-3.03	-7.86/-6.10	-2.77/-3.68	-3.29/-1.73	-0.87/-1.13	-1.44/-2.23	-3.94/-5.62	-5.36/-7.38	-7.21/-4.14	-4.94/-3.74	-3.50/-3.35	-7.67/-8.10	-3.64/-7.77	-8.26/-10.63	-12.73/-12.64	-5.61/-6.61	-14.55/-11.27	-13.35/-14.06	-10.36/-10.52	-11.76/-6.10	
θ(135°)	-2.37/-2.44	-1.92/-0.38	0.08/-0.95	-1.75/-3.79	-8.78/-14.10	-5.31/-3.00	-4.31/-4.73	-2.62/-2.04	-2.74/-3.54	-5.84/-7.06	-7.89/-7.44	-5.78/-6.32	-4.30/-4.25	-1.50/-1.98	-10.55/-8.84	-8.96/-7.28	-11.39/-10.71	-14.80/-15.36	-10.27/-12.97	-11.86/-5.58	-9.09/-8.27	-4.20/-6.23	-4.45/-3.30	
θ(142.5°)	-4.10/-2.86	-1.32/0.30	-0.48/-2.41	-3.53/-6.03	-9.48/-14.63	-11.40/-6.00	-5.10/-6.58	-6.87/-4.89	-4.20/-5.28	-5.97/-5.93	-6.20/-10.46	-10.18/-6.07	-4.49/-5.02	-9.47/-11.19	-7.09/-6.87	-9.25/-8.55	-11.29/-7.50	-13.97/-14.60	-10.46/-10.50	-8.15/-5.27	-6.14/-7.39	-6.51/-6.25	-3.81/-2.69	
θ(150°)	-5.47/-4.28	-3.28/-2.10	-2.64/-4.66	-7.00/-6.04	-6.05/-7.42	-9.66/-9.70	-9.75/-7.26	-5.85/-6.50	-7.71/-7.49	-6.79/-6.53	-6.49/-6.75	-9.36/-9.36	-10.50/-8.60	-9.34/-9.39	-6.38/-7.43	-11.12/-12.74	-13.76/-12.74	-15.30/-10.54	-8.97/-11.13	-11.99/-14.79	-15.44/-15.41	-12.19/-9.77	-8.50/-7.94	
θ(157.5°)	-6.69/-5.34	-5.01/-4.95	-5.50/-7.21	-10.42/-10.94	-10.57/-12.18	-10.36/-10.85	-10.89/-1.16	-5.60/-7.00	-7.82/-6.30	-5.65/-6.52	-7.42/-7.68	-8.29/-12.01	-11.55/-8.99	-9.88/-13.74	-14.85/-14.38	-12.19/-12.44	-14.68/-15.45	-12.35/-10.11	-9.37/-8.51	-8.88/-10.65	-10.10/-8.52	-9.98/-11.36	-10.98/-8.83	
θ(165°)	-10.73/-11.77	-11.33/-8.38	-6.33/-5.74	-6.29/-6.31	-7.03/-8.19	-9.86/-10.01	-8.75/-8.15	-9.03/-8.72	-5.82/-4.55	-5.83/-7.61	-7.33/-6.97	-8.16/-10.25	-10.75/-8.22	-6.75/-7.10	-9.01/-10.70	-10.25/-10.80	-10.13/-9.37	-11.25/-13.95	-12.65/-9.48	-10.01/-10.84	-9.81/-10.43	-10.74/-10.97	-10.44/-10.35	
θ(172.5°)	-13.82/-14.24	-13.66/-11.93	-10.59/-9.45	-9.06/-8.61	-8.66/-9.15	-8.99/-9.91	-10.52/-9.84	-9.58/-9.38	-10.21/-11.32	-10.68/-9.25	-9.40/-10.53	-11.76/-13.17	-13.02/-12.74	-13.54/-15.60	-15.58/-15.93	-15.26/-14.76	-15.22/-15.45	-15.17/-14.67	-14.17/-14.73	-14.73/-15.30	-15.89/-14.78	-15.29/-15.17	-15.65/-14.30	
θ(180°)	-11.41/-11.11	-10.31/-9.54	-9.18/-9.34	-9.64/-11.44	-12.22/-11.30	-10.28/-10.19	-9.96/-9.47	-9.61/-10.10	-10.14/-10.25	-10.45/-11.24	-11.61/-12.42	-13.52/-13.02	-11.44/-10.79	-10.69/-10.83	-11.45/-12.82	-12.84/-11.19	-9.97/-10.00	-10.27/-9.92	-9.06/-10.34	-11.85/-12.15	-11.91/-12.41	-11.71/-11.59	-11.89/-11.97	
Freq(Hz)	6.475GPdL	TotalAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
θ(0°)	-13.29/-12.23	-12.72/-13.34	-13.33/-14.91	-14.97/-13.51	-12.29/-12.63	-13.10/-14.09	-15.38/-14.33	-12.76/-13.11	-13.81/-13.24	-11.33/-10.49	-11.39/-12.97	-13.68/-12.00	-11.13/-10.49	-10.05/-10.21	-10.90/-11.65	-12.86/-12.99	-13.38/-14.02	-13.46/-13.56	-12.39/-12.57	-13.41/-14.47	-13.21/-11.99	-13.34/-13.53	-14.54/-13.80	
θ(7.5°)	-5.82/-6.23	-5.98/-6.47	-7.13/-7.38	-7.11/-8.41	-10.21/-10.51	-10.88/-12.75	-12.60/-10.53	-9.69/-10.52	-9.18/-7.10	-6.81/-6.17	-5.35/-5.20	-5.30/-5.56	-5.58/-6.16	-7.43/-9.06	-10.53/-12.96	-15.16/-15.92	-15.82/-15.70	-14.77/-11.56	-9.94/-8.16	-7.01/-6.74	-6.37/-5.52	-5.09/-4.88	-6.14/-6.08	
θ(15°)	-2.74/-3.49	-3.82/-4.23	-3.96/-3.40	-2.71/-2.80	-3.72/-4.43	-4.67/-4.78	-4.45/-6.41	-4.12/-4.10	-6.05/-6.44	-6.23/-4.78	-7.30/-5.10	-3.80/-3.21	-3.03/-3.98	-9.63/-13.52	-15.54/-14.47	-11.38/-9.47	-7.17/-6.56	-6.32/-6.02	-5.10/-4.98	-4.70/-4.32	-4.29/-4.15	-4.00/-3.93	-3.49/-2.97	
θ(22.5°)	-3.97/-2.65	-3.62/-3.94	-3.42/-2.09	-3.14/-3.94	-4.14/-5.89	-5.49/-3.77	-4.37/-3.01	-4.84/-6.97	-6.20/-7.83	-10.90/-9.16	-7.07/-7.26	-6.21/-5.72	-5.68/-6.48	-9.38/-8.68	-8.34/-5.70	-3.67/-3.00	-3.97/-6.92	-8.07/-7.48	-7.41/-6.90	-11.32/-14.63	-14.61/-12.97	-11.26/-7.61		
θ(30°)	-0.97/0.06	-1.31/-3.00	-4.03/-3.98	-4.74/-5.74	-5.49/-4.19	-3.41/-2.64	-2.65/-3.62	-4.47/-5.21	-5.81/-7.36	-9.29/-9.60	-10.14/-8.55	-7.02/-5.87	-5.14/-4.20	-5.05/-7.34	-8.09/-8.62	-7.95/-9.23	-8.10/-5.45	-3.71/-4.59	-8.45/-12.99	-15.14/-13.76	-12.18/-10.94	-9.06/-6.74	-5.21/-3.59	
θ(37.5°)	-0.94/-1.39	-2.40/-3.13	-3.41/-4.35	-3.74/-5.45	-4.47/-3.56	-2.92/-1.86	-3.86/-5.17	-3.73/-2.08	-2.29/-5.54	-9.25/-8.95	-8.38/-8.50	-3.22/-2.61	-3.33/-5.37	-4.91/-7.78	-10.94/-11.39	-10.55/-10.12	-5.45/-1.78	-0.69/-0.81	-2.51/-3.88	-6.54/-5.51	-4.45/-4.64	-2.18/-2.07	-1.75/-0.94	
θ(45°)	-1.32/-2.61	-4.45/-3.53	-2.14/-3.12	-3.90/-2.10	-4.37/-7.19	-4.12/-3.04	-3.60/-2.50	-0.92/-0.72	-1.41/-4.74	-6.59/-5.64	-3.81/-2.64	-0.82/-0.94	-0.99/-0.74	-1.38/-5.34	-10.82/-10.49	-6.65/-10.4	-6.21/-1.14	0.25/-0.61	-2.15/-1.42	-3.03/-3.29	-2.83/-2.21	-1.34/-1.12	-0.59/-3.69	
θ(52.5°)	0.05/-0.48	-3.02/-3.72	-1.06/-1.41	-1.88/-0.59	-2.53/-4.79	-3.63/-4.55	-3.74/-0.31	1.05/-0.10	-1.72/-2.35	-3.59/-3.30	-2.21/-2.30	-0.64/0.88	0.30/-0.08	-0.74/-3.44	-6.63/-7.93	-2.39/-4.25	-5.28/-0.50	0.70/-1.14	-1.33/-0.66	-2.87/-5.31	-5.49/-3.25	0.54/-1.54	1.34/0.17	
θ(60°)	1.54/-1.72	-0.27/-2.10	-0.15/-0.01	-0.58/0.46	-1.52/-3.42	-3.12/-3.58	-3.45/-0.65	0.31/-1.80	-0.17/0.07	-1.55/-2.61	-3.25/-1.81	-0.46/0.11	0.07/0.82	0.14/-2.51	-4.02/-5.86	-1.56/-1.67	-6.67/-1.47	-0.62/-2.35	-1.96/-1.49	-4.10/-11.18	-11.90/-7.22	1.77/2.05	1.79/-1.92	
θ(67.5°)	1.45/2.30	1.46/-0.43	-0.34/-0.00	-0.64/0.78	-0.71/-2.57	-2.86/-3.56	-4.56/-0.96	0.93/0.77	1.06/-1.37	-0.70/-3.48	-4.42/-3.32	-1.09/0.16	0.53/0.37	-1.51/-2.15	-1.42/-2.36	-6.17/-0.16	-1.74/-1.35	-1.05/-2.25	-5.56/-6.59	-6.88/-0.59	1.92/2.06	2.20/2.30	1.26/0.77	
θ(75°)	1.26/2.70	1.44/0.09	-0.88/0.86	0.62/1.01	0.70/-0.54	-2.69/-4.65	-4.33/-0.99	0.17/-0.02	1.47/1.52	-0.77/-2.36	-3.91/-3.17	-0.83/-0.02	0.67/1.19	-2.14/-4.24	-3.51/-6.10	-2.33/-1.76	-5.70/-2.21	-2.88/-0.53	-1.87/-2.19	-4.89/-4.71	-5.37/-1.43	0.87/0.38	0.66/1.34	
θ(82.5°)	1.21/1.51	1.29/0.44	-2.49/-0.80	0.13/0.40	0.26/-0.82	-2.85/-3.85	-3.82/-0.15	-0.03/-1.67	0.29/0.96	-2.28/-2.16	-3.09/-2.51	0.30/-0.17	-0.79/0.10	-2.34/-5.87	-5.88/-9.11	-4.78/-2.76	-6.79/-3.47	-2.50/-1.67	-2.22/-2.75	-2.21/-2.18	-4.14/-2.49	-0.95/-1.91	-1.74/0.21	
θ(90°)	1.33/0.41	0.17/0.76	-3.20/-1.87	-0.74/0.10	-0.50/-0.98	-2.64/-2.86	-3.44/0.07	0.02/-2.09	-0.60/0.85	-1.50/-1.37	-1.39/-2.90	0.52/0.54	-1.11/-1.40	-2.26/-6.69	-8.74/-7.40	-7.52/-3.28	-7.45/-4.59	-1.76/-0.37	-0.29/-2.97	-0.91/-0.88	-1.93/-2.55	-3.05/-6.17	-2.89/-0.95	
θ(97.5°)	0.43/0.51	-1.20/-0.53	-2.85/-1.98	-1.42/-0.83	-1.69/-1.46	-3.31/-2.13	-3.06/0.22	-0.25/-1.72	-1.14/-0.79	-3.47/-2.78	-1.98/-2.05	-0.10/-0.80	-4.01/-1.77	-3.16/-9.87	-7.19/-6.90	-9.15/-4.60	-7.80/-6.48	-3.76/-1.48	0.34/-2.81	-1.43/-1.65	-1.67/-4.01	-5.66/-7.02	-1.33/0.34	
θ(105°)	-0.63/0.04	-1.50/-1.90	-3.17/-2.26	-2.97/-0.72	-1.52/-1.58	-2.38/-3.63	-2.95/-2.09	-2.04/-3.13	-1.51/-1.91	-5.33/-3.79	-2.08/-2.77	-1.99/-3.78	-6.08/-2.18	-2.77/-5.83	-6.55/-6.73	-6.21/-6.03	-8.65/-10.93	-6.02/-5.49	-3.55/-4.88	-8.40/-8.58	-4.53/-8.02	-8.35/-8.02	0.90/-0.29	
θ(112.5°)	-2.48/-2.26	-3.00/-3.70	-4.33/-1.38	-3.55/-2.22	-2.26/-3.67	-2.21/-3.46	-3.36/-1.61	-2.67/-3.92	-2.51/-3.90	-9.06/-6.31	-4.48/-4.56	-4.69/-6.25	-4.20/-6.79	-5.04/-2.44	-4.91/-7.96	-12.24/-14.93	-9.94/-8.23	-9.27/-7.26	-6.42/-10.33	-14.46/-14.96	-7.88/-10.14	-9.46/-7.99	-1.95/-1.31	
θ(120°)	-7.63/-4.65	-3.84/-3.91	-3.76/-1.18	-3.68/-2.69	-3.16/-4.13	-2.30/-2.40	-3.22/-2.21	-2.44/-3.20	-2.53/-3.90	-6.08/-8.09	-10.07/-5.32	-7.12/-8.78	-6.20/-4.67	-6.10/-3.22	-5.95/-6.51	-6.88/-8.02	-9.20/-11.28	-6.34/-4.52	-8.00/-4.22	-6.33/-14.76	-7.58/-9.78	-6.93/-8.04	-10.51/-8.95	
θ(127.5°)	-4.49/-1.94	-3.37/-2.80	-3.09/-1.51	-4.53/-4.98	-4.47/-4.59	-3.82/-3.42	-3.93/-2.11	-2.43/-0.43	-5.05/-5.58	-6.48/-10.78	-12.38/-9.14	-9.73/-11.71	-8.23/-6.33	-4.24/-3.72	-8.80/-5.38	-7.74/-9.32	-10.28/-9.47	-13.12/-15.33	-9.13/-15.51	-12.84/-11.59	-14.81/-15.55	-10.61/-8.72	-11.25/-10.67	
θ(135°)	-2.47/-3.21	-3.82/-1.87	-2.60/-3.66	-5.43/-4.92	-4.60/-5.09	-4.95/-5.04	-3.79/-2.74	-2.98/-4.18	-4.86/-5.85	-6.18/-8.91	-13.18/-11.41	-11.47/-7.29	-11.01/-6.01	-1.52/-7.25</										



Antenna Pattern 6GHz U-NII 5~8

Appendix D

Θ(127.5°)	-11.08/-8.28	-5.33/-4.08	-8.32/-7.70	-8.76/-7.68	-6.81/-6.76	-7.15/-6.19	-4.91/-2.69	-2.91/-5.26	-4.19/-4.94	-5.44/-4.52	-4.72/-6.23	-5.56/-7.71	-6.29/-8.17	-8.19/-7.61	-5.02/-7.94	-6.75/-2.69	-6.32/-15.50	-8.23/-3.75	-2.55/-3.89	-9.99/-9.88	-5.31/-5.07	-15.71/-14.45	-10.08/-9.24	-7.50/-10.15
Θ(135°)	-7.28/-8.96	-13.93/-9.84	-15.21/-11.56	-6.83/-7.33	-9.09/-7.52	-7.41/-6.51	-4.79/-6.57	-8.13/-6.15	-6.83/-8.60	-5.18/-4.35	-5.66/-5.86	-6.66/-7.71	-11.46/-8.01	-6.80/-6.21	-7.16/-11.97	-5.92/-4.72	-9.05/-10.65	-11.24/-8.80	-6.40/-9.79	-11.63/-12.73	-10.05/-8.59	-14.67/-14.77	-13.83/-14.30	-15.11/-10.90
Θ(142.5°)	-9.68/-12.41	-15.93/-15.23	-15.88/-10.21	-11.95/-13.77	-11.34/-5.90	-8.16/-8.98	-7.60/-9.67	-11.97/-9.61	-6.72/-4.83	-4.66/-5.72	-7.97/-9.20	-6.87/-5.63	-6.96/-4.83	-5.99/-12.32	-11.21/-13.36	-11.37/-10.56	-8.16/-11.39	-15.18/-12.42	-11.11/-11.89	-12.98/-13.60	-13.29/-11.31	-10.60/-14.50	-12.57/-16.16	-10.10/-9.83
Θ(150°)	-11.22/-10.02	-9.00/-9.60	-12.50/-12.68	-8.82/-8.10	-9.14/-9.79	-9.94/-9.92	-7.81/-6.47	-6.13/-5.53	-6.55/-8.44	-7.79/-6.53	-7.83/-10.79	-11.85/-11.20	-9.87/-8.96	-8.34/-6.31	-7.45/-10.81	-11.80/-8.46	-7.75/-11.17	-10.67/-10.62	-11.87/-11.78	-12.71/-15.32	-15.07/-10.57	-10.22/-15.04	-15.60/-14.48	-12.40/-11.39
Θ(157.5°)	-8.04/-9.11	-10.39/-12.35	-11.52/-9.78	-10.08/-11.58	-12.62/-10.91	-9.26/-9.30	-10.96/-12.07	-8.65/-6.41	-6.04/-7.73	-11.39/-13.19	-13.00/-12.85	-14.95/-15.48	-13.59/-13.99	-15.35/-15.25	-11.14/-9.97	-8.75/-8.84	-11.53/-13.13	-12.27/-11.79	-12.75/-13.26	-14.90/-16.14	-16.11/-13.09	-12.38/-13.01	-12.98/-14.71	-11.57/-9.39
Θ(165°)	-12.87/-11.89	-10.87/-10.49	-10.92/-12.54	-13.86/-14.42	-13.57/-13.91	-13.07/-12.18	-11.12/-10.63	-10.60/-9.76	-8.69/-8.98	-10.55/-11.55	-11.45/-11.48	-11.98/-12.45	-12.82/-13.21	-11.54/-10.05	-9.70/-10.48	-10.98/-10.81	-11.53/-10.82	-9.70/-9.48	-10.79/-12.54	-12.82/-13.75	-14.58/-15.21	-14.94/-14.81	-15.08/-13.41	-11.01/-11.30
Θ(172.5°)	-9.75/-9.88	-9.91/-10.22	-9.42/-9.55	-10.04/-10.87	-12.55/-14.03	-13.87/-12.96	-12.47/-12.27	-12.87/-13.44	-13.26/-12.38	-11.37/-12.05	-13.37/-13.30	-12.48/-11.33	-10.00/-9.38	-8.62/-8.59	-8.90/-9.92	-10.80/-11.53	-11.30/-10.68	-10.00/-9.76	-10.33/-11.14	-11.99/-14.01	-15.07/-13.20	-12.73/-12.03	-12.76/-12.79	-10.55/-10.09
Θ(180°)	-15.68/-15.79	-15.36/-15.48	-15.27/-15.70	-15.13/-15.43	-15.85/-15.25	-15.41/-15.14	-14.43/-14.33	-14.16/-14.31	-14.63/-14.97	-15.43/-14.12	-13.66/-12.83	-12.24/-12.64	-14.78/-13.89	-13.44/-13.17	-13.95/-14.65	-14.52/-14.84	-15.21/-14.47	-14.61/-13.83	-13.79/-12.98	-13.05/-14.09	-15.49/-15.43	-15.84/-15.92	-15.78/-15.27	-15.57/-15.09
Freq(Hz)	6.475GPol.	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°)	0.340/55	0.830/12	-0.07/-0.07	0.190/32	0.00/-0.03	0.590/49	0.350/30	0.270/13	-0.01/-0.23	-0.28/-0.27	-0.25/-0.15	0.140/18	0.240/81	1.22/-12	0.860/65	0.500/54	0.430/32	0.260/14	-0.10/-0.23	-0.45/-0.62	-0.72/-0.48	-0.22/-0.27	-0.51/-0.08	0.150/33
Θ(7.5°)	0.861/01	1.241/58	1.942/06	2.072/29	2.191/84	1.511/74	1.761/85	1.971/93	1.721/55	1.320/61	-0.22/-0.59	-0.91/-1.11	-1.39/-1.56	-1.70/-1.64	-1.47/-2.02	-2.68/-2.80	-2.30/-1.72	-1.35/-1.14	-1.01/-0.84	-0.68/-0.65	-0.92/-0.96	-0.04/-0.09	-0.04/-0.19	0.030/63
Θ(15°)	2.072/17	2.462/65	2.983/33	3.533/70	3.553/05	2.312/10	2.232/60	2.862/56	1.780/89	-0.70/-2.60	-3.76/-4.53	-5.71/-6.09	-6.55/-6.86	-6.35/-7.42	-6.68/-8.01	-7.20/-7.07	-6.97/-5.67	-4.17/-2.95	-2.43/-1.63	-1.19/-0.99	-0.88/-0.70	-0.290/33	0.851/25	1.231/40
Θ(22.5°)	2.733/30	3.814/09	4.204/14	3.603/31	3.243/04	2.361/91	2.333/09	3.151/61	-0.27/-1.64	-1.97/-1.04	-0.46/-0.28	-0.94/-2.17	-4.46/-5.63	-4.89/-4.69	-4.86/-5.19	-4.89/-5.80	-7.07/-5.99	-4.18/-3.06	-2.01/-1.50	-1.45/-1.26	-0.930/05	1.352/54	3.123/15	2.812/57
Θ(30°)	-0.810/69	2.583/92	4.905/00	3.832/62	2.342/98	2.381/76	2.993/70	2.550/22	-0.210/65	1.301/45	0.711/0.61	-2.40/-4.20	-7.04/-9.33	-10.77/-14.46	-14.19/-10.48	-5.34/-3.06	-3.10/-5.57	-6.42/-3.92	-2.58/-1.69	-0.81/-0.33	0.090/91	1.842/49	2.652/15	1.680/71
Θ(37.5°)	1.451/93	1.751/90	2.623/38	2.922/15	2.443/83	3.642/84	3.883/99	1.47/-0.14	0.851/15	1.100/42	-0.53/-2.06	-3.93/-5.63	-7.81/-10.20	-9.04/-6.99	-6.44/-6.00	-5.48/-2.51	-2.00/-2.99	-2.90/-2.22	-2.59/-0.44	0.46/-0.37	-1.12/-0.57	1.272/91	3.242/53	1.311/11
Θ(45°)	-0.300/64	2.012/74	1.830/54	0.761/63	2.574/65	4.823/35	4.153/91	0.44/-0.42	0.72/-0.58	-0.980/09	0.12/-0.05	-2.21/-5.90	-10.49/-15.58	-11.49/-7.14	-3.15/-2.72	-4.76/-2.64	-1.23/-1.12	-0.13/-2.50	-1.23/-1.58	2.301/20	0.800/90	0.971/12	0.830/71	0.940/59
Θ(52.5°)	-1.67/-1.43	0.251/38	0.52/-0.26	1.042/93	4.164/93	4.602/79	3.182/34	-0.90/-0.32	-1.16/-3.70	-1.110/24	-0.15/-0.86	-2.99/-7.00	-7.57/-5.51	-6.87/-8.32	-4.21/-2.37	-3.08/-2.92	-2.06/-1.74	-0.41/-2.36	-1.38/-1.86	0.89/-0.34	1.741/88	0.370/51	-0.75/-1.29	0.380/54
Θ(60°)	-3.04/-1.42	-0.45/-0.50	-1.270/09	2.323/88	4.334/29	4.010/68	1.641/19	-1.78/-0.96	-1.89/-4.31	-1.56/-0.64	-1.37/-1.44	-2.46/-5.08	-4.46/-3.45	-1.88/-2.88	-5.91/-3.54	-2.01/-2.58	-3.15/-3.53	-0.44/-3.51	-2.770/28	-1.28/-0.34	1.31/-0.18	-1.240/24	-1.54/-1.40	-0.72/-1.62
Θ(67.5°)	-4.82/-2.21	-0.90/-2.14	-3.09/-0.04	2.843/06	2.902/296	1.60/-2.58	-0.48/-0.06	-0.670/50	-1.78/-2.29	-1.40/-1.19	-1.56/-1.12	-2.47/-4.23	-4.94/-3.68	-2.02/-0.51	-2.91/-3.07	-2.34/-3.89	-3.17/-2.92	-1.35/-5.65	-2.21/-2.11	-2.58/-1.17	0.17/-1.55	-0.94/-0.29	-3.67/-2.33	-3.14/-0.88
Θ(75°)	-6.47/-4.68	-2.39/-3.28	-3.80/-1.77	1.702/41	0.660/28	-0.79/-4.15	-0.34/-0.00	-0.38/-0.94	-0.64/-0.61	-1.04/-0.65	-1.02/-4.46	-7.23/-5.91	-3.22/-1.06	-1.73/-2.66	-1.39/-4.69	-3.24/-3.99	-1.33/-4.32	-2.35/-0.59	-0.69/-2.25	-1.56/-2.35	-6.70/-4.65	-5.45/-6.05		
Θ(82.5°)	-7.48/-7.22	-5.74/-5.12	-4.07/-3.09	-0.570/97	-1.67/-3.39	-4.14/-4.60	-1.33/-0.12	-0.06/-0.26	-1.470/06	-1.43/-1.29	-0.88/-0.76	-1.81/-3.26	-5.90/-5.74	-3.24/-1.21	-1.78/-3.17	-1.73/-4.17	-3.00/-7.03	-0.21/-5.28	-3.32/-1.74	-3.75/-0.27	-0.40/-0.91	-2.44/-6.28	-10.59/-8.45	-6.37/-4.93
Θ(90°)	-8.11/-5.74	-5.02/-8.78	-1.72/-0.81	-1.72/-0.81	-3.01/-4.71	-4.99/-4.23	-1.410/31	-0.05/-1.34	-1.940/22	-1.36/-2.14	-1.58/-0.96	-1.25/-2.08	-5.09/-5.54	-8.36/-1.19	-2.17/-4.93	-4.14/-5.65	-3.30/-5.81	-1.15/-6.94	-2.37/-2.45	-4.87/-9.00	-0.92/-1.81	-3.78/-6.64	-12.36/-11.29	-5.46/-7.31
Θ(97.5°)	-8.57/-6.38	-5.81/-9.44	-9.08/-5.73	-2.95/-2.85	-5.97/-8.76	-6.49/-4.97	-2.22/-1.05	-1.39/-2.59	-2.66/-8.03	-2.24/-9.02	-1.95/-1.18	-1.47/-2.73	-4.94/-6.17	-4.79/-3.81	-3.06/-3.57	-2.23/-6.23	-5.63/-6.37	-3.12/-7.05	-2.71/-5.68	-7.31/-5.43	-5.31/-9.49	-2.58/-7.96	-15.71/-10.77	-5.08/-9.86
Θ(105°)	-9.01/-8.15	-8.31/-10.33	-9.29/-5.63	-3.81/-4.19	-10.44/-10.98	-6.64/-5.07	-1.74/-1.03	-1.91/-2.47	-3.24/-1.61	-2.15/-3.47	-3.39/-1.94	-3.27/-4.75	-6.31/-6.80	-5.87/-5.79	-3.42/-2.71	-5.78/-4.46	-4.22/-8.51	-6.32/-5.80	-3.76/-8.84	-9.96/-13.55	-14.54/-11.29	-7.96/-11.95	-12.78/-9.52	-7.83/-13.06
Θ(112.5°)	-9.06/-11.07	-9.50/-10.93	-9.34/-5.75	-6.78/-6.82	-14.34/-14.66	-8.34/-9.43	-4.40/-3.36	-3.57/-1.93	-3.37/-3.59	-3.97/-4.36	-6.23/-8.89	-8.73/-7.09	-10.17/-7.54	-4.14/-2.98	-5.44/-2.93	-7.50/-7.83	-4.55/-5.16	-6.72/-7.21	-10.82/-10.11	-15.68/-11.16	-10.24/-8.03	-16.50/-14.83	-12.99/-14.56	
Θ(120°)	-12.18/-11.64	-7.67/-6.37	-6.99/-6.22	-10.67/-10.68	-11.64/-11.87	-7.17/-3.76	-3.54/-2.39	-4.05/-4.00	-0.94/-3.30	-5.14/-6.46	-5.64/-5.46	-5.54/-5.83	-8.09/-10.02	-10.89/-7.25	-3.76/-6.59	-3.69/-4.16	-5.24/-3.08	-7.72/-5.37	-9.97/-14.41	-11.71/-9.52	-14.58/-14.84	-9.33/-13.09		
Θ(127.5°)	-14.36/-12.77	-7.70/-6.80	-7.79/-9.08	-10.04/-10.72	-8.89/-8.30	-5.36/-4.17	-5.79/-5.71	-6.42/-5.42	-5.69/-4.19	-3.41/-5.63	-8.42/-6.99	-4.28/-5.06	-7.89/-12.59	-10.24/-12.29	-6.83/-5.39	-4.06/-3.48	-6.28/-6.39	-5.31/-7.01	-4.27/-3.25	-11.54/-6.56	-5.12/-3.93	-8.18/-9.75	-13.78/-13.17	-7.42/-11.22
Θ(135°)	-8.69/-12.82	-10.37/-9.56	-14.78/-11.35	-12.03/-11.15	-6.60/-7.13	-6.26/-5.47	-6.23/-6.35	-10.25/-7.74	-5.37/-6.84	-6.75/-5.41	-7.43/-11.04	-7.76/-7.28	-9.10/-11.96	-15.87/-14.03	-5.98/-6.08	-8.45/-7.32	-5.85/-11.61	-5.90/-8.07	-7.33/-6.02	-15.01/-11.39	-6.77/-9.50	-13.15/-12.19	-15.63/-12.29	-12.65/-10.97
Θ(142.5°)	-7.97/-9.67	-14.84/-14.19	-13.64/-10.93	-10.81/-13.83	-7.85/-9.20	-10.25/-8.83	-8.74/-8.43	-9.70/-9.00	-5.66/-5.48	-7.57/-10.29	-8.58/-5.64	-5.09/-5.35	-7.34/-9.40	-9.61/-10.05	-10.23/-13.19	-9.58/-6.60	-15.43/-9.53	-9.33/-13.62	-8.03/-9.72	-15.44/-13.49	-14.83/-14.58	-9.44/-14.62	-10.45/-13.30	-12.67/-10.87
Θ(150°)	-10.07/-12.18	-12.62/-12.55	-11.56/-8.99	-11.05/-12.83	-10.12/-10.64	-11.42/-10.08	-9.30/-8.71	-7.89/-6.65	-10.44/-8.07	-7.83/-9.98	-12.61/-12.42	-9.17/-7.81	-8.86/-8.17	-8.96/-13.55	-12.87/-10.60	-11.35/-15.63	-8.89/-6.85	-8.37/-11.14	-15.75/-10.84	-11.02/-11.42	-15.17/-13.46	-8.88/-12.65	-14.93/-14.47	-11.42/-10.01
Θ(157.5°)	-15.98/-14.76	-10.53/-10.72	-9.51/-10.65	-14.62/-12.80	-9.30/-8.47	-9.65/-10.29	-11.14/-10.36	-8.78/-7.98	-8.67/-10.48	-12.08/-13.51	-14.35/-14.70	-13.24/-11.74	-11.25/-13.30	-14.93/-12.56	-12.17/-13.19	-12.92/-10.03	-8.32/-8.52	-10.63/-14.80	-14.69/-11.75	-11.36/-12.51	-14.41/-13.45	-15.34/-15.62	-14.93/-14.56	-12.29/-12.57
Θ(165°)	-12.08/-10.14	-9.67/-13.52	-15.66/-15.01	-15.20/-12.01	-9.83/-9.38	-9.87/-10.88	-11.66/-13.04	-14.36/-14.03	-13.08/-13.79	-15.67/-14.87	-15.51/-15.82	-15.20/-15.25	-15.78/-13.08	-10.56/-10.30	-11.09/-11.35	-11.51/-12.70	-14.14/-16.07	-14.39/-15.11	-12.96/-12.20	-11.98/-11.50	-11.78/-13.05	-11.81/-10.76	-11.97/-14.20	-14.88/-16.07
Θ(172.5°)	-15.54/-13.87	-14.17/-15.82	-14.71/-14.86	-15.17/-15.16	-14.52/-15.24	-15.29/-14.84	-14.82/-15.52	-14.63/-16.15	-15.48/-15.75	-15.59/-15.69	-16.01/-15.65	-15.68/-15.18	-15.71/-14.74	-14.24/-14.43	-10.86/-9.61	-10.13/-12.04	-12.94/-11.61	-11.45/-12.16	-14.79/-15.25	-15.12/-14.27	-13.73/-13.65	-13.60/-12.71	-12.75/-13.84	-14.45/-15.58
Θ(180°)	-12.58/-13.42	-15.48/-1																						

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

