



Antenna Pattern (2.4GHz and 5GHz UNII 1~UNII 5)

Appendix C

Θ(30°)	-4.00/-4.96	-6.67/-5.41	-5.00/-5.08	-3.98/-3.11	-2.33/-2.28	-2.77/-2.71	-2.41/-1.22	-0.24/0.54	0.84/-1.16	1.41/-1.29	0.53/-0.03	-0.72/-0.56	0.03/0.14	-0.18/-0.96	-0.88/-1.60	-2.55/-2.52	-1.73/-2.41	-4.36/-3.30	-3.11/-4.28	-6.98/-8.04	-7.68/-6.96	-6.17/-5.20	-4.86/-5.12	-6.05/-4.68
Θ(37.5°)	-9.02/-6.14	-5.57/-4.36	-4.83/-6.61	-6.07/-5.20	-5.34/-5.25	-4.69/-2.96	-0.99/-0.14	0.40/0.28	0.20/0.84	1.29/-1.11	1.57/0.24	1.45/-1.07	0.01/-1.13	-0.49/-0.17	0.49/-0.89	-1.98/-1.98	-2.64/-3.71	-2.76/-2.76	-4.94/-6.58	-6.03/-7.70	-9.44/-13.72	-13.62/-11.08	-13.51/-14.67	-10.85/-12.12
Θ(45°)	-5.78/-9.28	-10.58/-5.77	-6.97/-8.14	-5.99/-4.86	-6.12/-6.17	-4.96/-3.16	-2.43/-1.66	-1.00/-0.72	-0.53/-0.04	0.67/-1.19	1.44/-1.51	1.47/0.41	-0.41/-0.46	-0.04/-0.07	-0.83/-3.16	-4.04/-6.08	-7.40/-5.57	-6.47/-9.31	-7.35/-6.13	-7.59/-6.96	-11.09/-12.05	-11.69/-14.83	-9.71/-8.78	-6.36/-11.39
Θ(52.5°)	-8.26/-7.20	-6.99/-8.29	-8.35/-7.21	-6.88/-8.26	-9.07/-5.17	-4.08/-4.39	-2.32/-0.47	0.44/0.75	0.65/-1.37	1.75/-1.54	1.42/0.97	1.04/-1.63	1.24/0.27	-0.58/-1.00	-2.66/-7.40	-8.14/-5.73	-4.81/-5.47	-5.83/-6.94	-10.00/-9.07	-11.57/-14.31	-9.59/-5.44	-6.71/-9.41	-7.12/-8.27	-7.54/-6.12
Θ(60°)	-5.58/-5.09	-8.88/-8.48	-7.88/-7.68	-6.14/-6.53	-11.89/-6.56	-3.75/-3.69	-3.48/-2.43	-1.05/-0.03	0.59/-1.53	1.61/-1.90	1.53/0.86	0.39/0.44	0.01/-1.29	-2.01/-2.45	-4.02/-7.55	-11.78/-9.80	-7.89/-8.14	-10.75/-14.58	-12.28/-10.05	-13.66/-12.47	-7.62/-5.92	-7.01/-4.30	-5.58/-8.80	
Θ(67.5°)	-6.90/-5.99	-12.17/-11.24	-8.42/-9.81	-13.58/-10.69	-7.33/-6.80	-6.12/-4.26	-2.90/-1.66	-0.51/-0.08	0.02/0.86	1.36/-1.51	1.20/-0.1	1.63/0.21	-1.56/-1.03	-2.09/-0.93	-3.98/-8.75	-15.48/-13.42	-12.80/-8.97	-9.26/-15.31	-12.48/-9.86	-11.09/-12.15	-7.11/-7.21	-11.69/-14.83	-9.71/-8.78	-6.36/-11.39
Θ(75°)	-7.52/-7.59	-10.38/-9.40	-8.94/-13.95	-11.61/-7.52	-6.64/-7.03	-6.30/-4.42	-4.26/-2.05	-1.19/-1.57	-0.58/0.72	0.38/0.35	0.82/0.93	0.56/0.53	1.60/0.22	-2.86/-1.07	0.06/-1.55	-8.57/-13.18	-12.88/-9.65	-9.43/-12.49	-15.11/-11.26	-8.93/-9.55	-7.83/-3.52	-3.92/-9.51	-8.80/-6.96	-5.78/-7.26
Θ(82.5°)	-10.09/-6.44	-9.41/-10.16	-7.44/-9.31	-7.98/-8.47	-11.43/-10.76	-6.35/-5.30	-4.00/-1.83	-1.22/-0.61	0.67/0.55	0.16/0.23	1.09/-1.07	0.53/-0.20	0.23/-0.07	-2.51/-3.35	-3.25/-7.29	-7.81/-11.85	-11.48/-9.10	-14.07/-10.87	-8.14/-15.18	-9.25/-13.13	-4.91/-6.78	-6.19/-11.96	-7.91/-5.38	-4.57/-7.25
Θ(90°)	-5.08/-3.59	-7.62/-11.03	-8.62/-7.31	-8.10/-9.47	-10.39/-7.86	-6.54/-5.94	-3.52/-1.24	-0.85/-0.54	-0.23/0.25	1.23/0.53	-0.37/0.26	0.88/0.99	0.72/-0.57	-2.66/-2.98	-1.82/-1.93	-6.68/-6.03	-9.82/-10.32	-12.14/-9.66	-11.45/-12.00	-9.71/-11.46	-8.25/-8.55	-12.82/-10.05	-7.64/-5.93	-3.89/-6.63
Θ(97.5°)	-4.82/-4.49	-8.48/-5.95	-4.65/-8.84	-6.74/-4.26	-6.14/-8.50	-8.51/-4.44	-2.48/-1.53	-0.50/0.24	1.63/-1.37	0.76/0.76	1.04/-0.55	-2.81/-2.06	0.85/0.58	-2.10/-4.34	-3.55/-1.93	-4.27/-6.54	-12.96/-9.48	-7.14/-7.55	-8.66/-14.70	-7.85/-6.45	-9.18/-7.65	-7.72/-6.76	-14.84/-8.09	-5.88/-5.38
Θ(105°)	-5.82/-3.37	-4.01/-6.67	-5.34/-4.63	-3.56/-2.74	-3.32/-5.31	-5.85/-4.49	-3.02/-0.97	-0.10/0.82	1.13/-1.54	2.57/-2.44	1.49/0.22	-1.13/-0.78	0.32/0.13	-0.85/-0.99	-2.66/-4.48	-4.21/-1.36	-3.87/-7.57	-5.81/-2.87	-5.96/-7.21	-7.86/-10.46	-10.69/-15.97	-9.26/-9.91	-3.85/-2.76	
Θ(112.5°)	-3.57/-1.58	-4.23/-4.40	-1.64/-2.19	-3.91/-4.10	-2.88/-2.64	-3.98/-2.10	-0.94/-0.19	0.81/0.21	2.60/-2.96	2.32/-2.29	2.30/0.03	0.65/-1.00	-1.29/-1.37	-0.10/-2.36	-0.64/-2.20	-4.07/-2.83	-6.53/-11.23	-8.75/-6.66	-11.34/-8.02	-3.58/-6.11	-12.07/-1.97	-11.72/-8.42	-4.86/-13.12	-8.49/-4.43
Θ(120°)	-5.71/-4.80	-3.10/-2.25	-2.11/-2.36	-1.95/0.21	-0.60/-2.34	-1.19/-1.10	-0.31/0.99	2.27/2.71	2.73/2.52	2.51/3.12	2.80/-1.18	0.04/0.95	0.76/0.24	-0.28/-0.94	1.40/-0.16	1.56/-5.71	-7.82/-0.54	-2.78/-4.19	-7.74/-5.65	-2.31/-4.23	-9.23/-6.26	-10.16/-8.82	-7.57/-7.02	-5.10/-6.56
Θ(127.5°)	-6.32/-1.15	1.30/-0.19	-4.90/-2.05	0.19/-0.61	-1.94/-1.44	0.97/2.01	1.69/-1.39	1.68/2.83	3.35/3.67	2.72/-1.90	1.08/-1.47	1.88/-0.20	2.03/2.76	0.79/-0.99	-0.88/-2.13	-13.36/-3.20	-0.56/-1.69	-7.64/-2.27	-1.64/-8.63	-11.62/-14.06	-15.16/-5.21	-4.37/-2.76	-2.98/-5.08	
Θ(135°)	-4.07/-4.26	-1.74/0.05	0.70/0.59	0.65/-0.11	-0.40/0.94	1.67/-1.91	2.08/2.39	3.18/2.62	3.83/3.36	2.66/2.48	2.99/2.28	2.20/2.29	1.72/-0.25	-0.82/0.30	0.26/-1.783	-5.53/-4.37	-5.04/-7.52	-11.61/-12.46	-15.28/-4.99	-1.03/-4.95	-15.39/-12.52	-15.13/-7.97	-1.68/-3.09	-1.40/-2.33
Θ(142.5°)	-4.21/-1.70	-0.06/0.45	-1.41/-3.00	0.19/2.41	2.21/0.97	0.16/0.36	1.80/3.10	4.13/-4.49	4.44/-4.17	4.51/-4.62	4.31/-4.35	3.63/3.09	2.56/1.52	0.04/-2.57	-2.69/-0.69	-4.26/-4.94	-1.82/-0.20	-0.73/-5.86	-15.16/-10.24	-4.36/-2.46	-4.16/-6.65	-7.21/-3.44	-2.69/-4.68	-7.65/-5.81
Θ(150°)	-7.09/-5.97	-0.37/2.61	3.48/2.85	0.77/0.02	0.33/-1.74	3.28/-1.49	4.43/-4.39	4.16/0.06	4.07/0.30	4.44/-4.35	4.46/3.51	-2.33/-1.06	-1.24/-1.37	-2.05/-2.05	-2.42/-2.16	2.39/-0.05	4.11/2.08	0.64/-2.21	-1.67/0.71	-0.10/-4.82	-8.49/-5.36	-2.30/-1.28	-2.19/-5.10	
Θ(157.5°)	-8.27/-5.41	-1.73/0.70	2.58/3.04	0.30/-1.33	0.31/-1.89	1.34/-1.34	2.09/-2.39	2.91/-2.29	3.35/3.44	3.31/-3.08	2.05/0.30	-1.13/-1.04	-0.28/-2.31	1.00/-1.31	2.30/-4.15	4.67/-3.99	-0.93/-4.88	-5.04/-9.85	-14.66/-9.40	-13.16/-10.83	-7.69/-5.59	-6.35/-4.91	-2.68/-1.30	-1.16/-3.30
Θ(165°)	-5.22/-4.42	-2.49/-0.81	0.63/-1.13	1.50/2.06	2.56/2.63	2.59/2.90	3.43/3.98	4.38/-4.70	4.72/-4.61	3.85/2.81	1.55/0.64	0.58/0.96	1.61/2.32	2.52/2.54	1.96/0.50	-3.01/-8.21	-8.41/-4.07	-3.15/-5.14	-8.94/-9.94	-8.35/-5.72	-3.35/-2.52	-3.51/-3.50	-3.26/-3.31	-4.00/-5.10
Θ(172.5°)	-3.80/-3.20	-1.97/-1.01	-0.05/0.62	1.13/-1.74	2.02/-1.73	1.49/-1.27	0.90/0.37	0.30/-0.00	-0.17/-0.10	-0.11/0.34	0.62/0.76	0.81/0.92	0.92/0.11	-1.22/-3.76	-6.57/-8.12	-6.38/-4.40	-2.64/-1.90	-2.86/-5.27	-9.12/-13.84	-12.14/-10.93	-11.03/-12.36	-11.31/-8.96	-7.85/-6.83	-5.63/-5.00
Θ(180°)	-2.40/-2.36	-2.29/-2.35	-2.29/-2.14	-1.58/-1.79	-2.21/-2.95	-3.58/-3.80	-3.71/-3.81	-3.38/-2.85	-2.57/-2.31	-1.95/-1.55	-1.69/-1.85	-2.24/-3.22	-4.47/-6.43	-9.47/-9.94	-7.02/-5.17	-4.31/-4.04	-4.90/-6.67	-10.09/-13.64	-9.17/-6.22	-4.52/-4.43	-4.62/-4.12	-3.98/-3.71	-3.12/-2.72	-2.82/-2.70
Freq(Hz)	2.45GHzPol.	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°)	0.17/0.37	0.66/0.84	0.96/0.92	0.82/0.80	0.81/0.54	0.24/-0.24	-0.77/-1.22	-1.58/-1.76	-1.54/-1.18	-0.85/-0.69	-0.54/-0.39	-0.24/-0.04	0.16/0.44	0.67/0.99	1.26/-1.25	1.36/-1.15	1.01/0.72	0.48/0.39	0.42/0.47	0.28/0.11	0.08/-0.05	-0.30/-0.29	-0.44/-0.51	-0.25/0.00
Θ(7.5°)	1.17/1.22	1.46/1.66	1.89/-1.93	1.99/-1.98	1.87/1.63	1.35/0.85	0.11/-0.35	-1.04/-1.25	-1.26/-1.09	-1.06/-1.02	-0.93/-0.76	-0.83/-0.73	-0.72/-0.49	-0.56/-0.43	-0.26/-0.18	-0.15/-0.21	-0.29/-0.58	-0.90/-1.01	-0.79/-0.76	-0.67/-0.58	-0.42/-0.38	-0.23/-0.13	0.06/0.28	0.71/0.95
Θ(15°)	1.58/1.78	2.02/2.40	2.70/2.79	2.92/2.84	2.67/2.31	2.01/-1.54	0.89/0.17	-0.88/-0.75	-0.96/-0.82	-0.85/-0.64	-0.70/-0.60	-0.54/-0.60	-0.79/-1.11	-1.27/-1.43	-1.58/-1.78	-1.72/-1.41	-1.20/-2.09	-2.38/-2.58	-2.43/-2.04	-1.72/-1.41	-1.20/-0.87	-0.67/-0.22	0.23/0.60	1.10/-1.42
Θ(22.5°)	1.55/1.88	2.32/2.80	3.15/3.33	3.35/2.22	3.05/2.94	2.60/-1.95	1.43/0.69	0.07/-0.43	-0.61/-0.83	-0.86/-0.76	-0.43/-0.04	0.29/0.50	0.61/0.21	-0.33/-0.75	-1.31/-1.75	-2.18/-2.50	-2.66/-2.89	-3.52/-4.08	-4.03/-3.78	-3.10/-2.67	-2.07/-1.80	-1.53/-0.95	-0.28/0.38	0.90/-1.42
Θ(30°)	1.17/1.60	2.23/2.75	3.12/3.50	3.58/-4.49	3.25/2.95	2.48/-1.94	1.38/0.64	0.27/-0.04	-0.15/0.10	0.32/0.29	0.57/0.97	1.20/-1.24	1.06/0.70	0.31/-1.07	-0.82/-1.54	-2.41/-3.05	-3.52/-4.03	-5.06/-6.26	-7.24/-7.08	-6.23/-4.81	-3.85/-3.42	-3.08/-2.34	-1.38/-0.45	0.32/0.80
Θ(37.5°)	0.32/1.10	1.91/2.59	3.12/3.39	3.46/3.26	3.00/2.67	2.21/-1.74	1.11/0.64	0.34/0.38	0.32/0.31	0.34/0.50	0.79/-1.05	0.97/0.71	0.61/-0.02	-0.38/-0.75	-1.50/-2.24	-3.15/-3.95	-4.61/-5.39	-6.47/-8.17	-9.64/-10.52	-9.72/-7.64	-5.96/-5.36	-4.91/-3.96	-2.54/-1.34	-0.65/-0.13
Θ(45°)	-0.17/0.80	1.84/2.51	3.05/3.15	3.16/2.97	2.60/2.36	1.98/1.55	1.04/0.50	0.21/0.17	0.32/0.42	0.15/-0.04	-0.07/-0.06	-0.20/-0.49	-0.53/-0.50	-0.80/-1.35	-2.09/-2.76	-3.35/-3.69	-4.32/-5.29	-6.20/-7.61	-9.07/-10.92	-12.25/-10.65	-8.27/-8.57	-5.32/-4.21	-2.85/-1.90	-1.35/-0.93
Θ(52.5°)	-0.30/0.94	1.96/2.57	3.01/3.02	2.89/2.69	2.57/2.43	2.36/2.20	1.85/1.25	0.49/-0.16	-0.66/-1.07	-1.27/-1.36	-1.42/-1.57	-1.68/-1.61	-1.50/-1.50	-1.52/-1.99	-2.43/-2.93	-3.38/-4.05	-4.80/-5.68	-6.22/-7.88	-10.26/-12.68	-13.23/-10.45	-8.99/-6.96	-5.70/-4.52	-3.17/-2.48	-1.88/-1.36
Θ(60°)	-3.04/0.82	1.72/2.33	2.65/2.66	2.36/2.31	2.19/2.29	2.46/2.57	2.32/1.62	0.44/-1.19	-3.00/-3.75	-2.36/-2.79	-2.37/-2.39	-2.74/-3.00	-2.84/-2.73	-2.56/-2.56	-2.67/-2.96	-3.83/-4.63	-4.61/-4.93	-3.94/-4.99	-7.87/-11.77	-12.49/-10.52	-10.02/-8.47	-6.23/-4.05	-3.02/-2.57	-1.93/-1.48
Θ(67.5°)	0.43/1.02	1.60/-1.95	2.00/-1.92	1.65/-1.66	1.80/-1.93	1.91/-1.74	1.41/0.70	-0.90/-3.00	-5.22/-4.86	-2.95/-1.74	-1.74/-2.51	-3.35/-4.28	-4.17/-2.82	-2.51/-2.46	-2.52/-3.32	-4.58/-4.68	-3.62/-2.32	-2.01/-3.58	-6.07/-10.24	-11.79/-11.28	-10.01/-7.64	-4.20/-2.12	-1.17/-0.98	-0.63/-0.25
Θ(75°)	2.25/2.60	2.79/2.73	2.41/2.00	1.68/1.54	1.41/-1.22	1.03/0.72	0.18/-0.56	-1.80/-3.50	-4.63/-4.32	-1.98/-1.50	-2.34/-3.98	-5.66/-5.75	-3.86/-3.23	-1.96/-2.00	-2.02/-2.76	-4.34/-5.01	-3.64/-2.39	-2.24/-3.58	-6.81/-10.96	-10.39/-7.78	-6.69/-6.57	-4.30/-2.42	-1.08/-0.63	0.45/-1.53
Θ(82.5°)	1.22/2.67	2.83/2.63	2.26/-1.71	1.13/0.86	0.42/0.05	-0.21/-0.47	-0.76/-1.44	-2.66/-4.34	-4.98/-3.85	-1.80/-0.56	-5.49/-6.53	-5.79/-3.62	-1.80/-0.56	-0.79/-1.48	-2.10/-3.10	-4.77/-5.77	-4.91/-3.26	-1.90/-2.32	-4.85/-10.09	-10.73/-7.23	-6.73/-8			

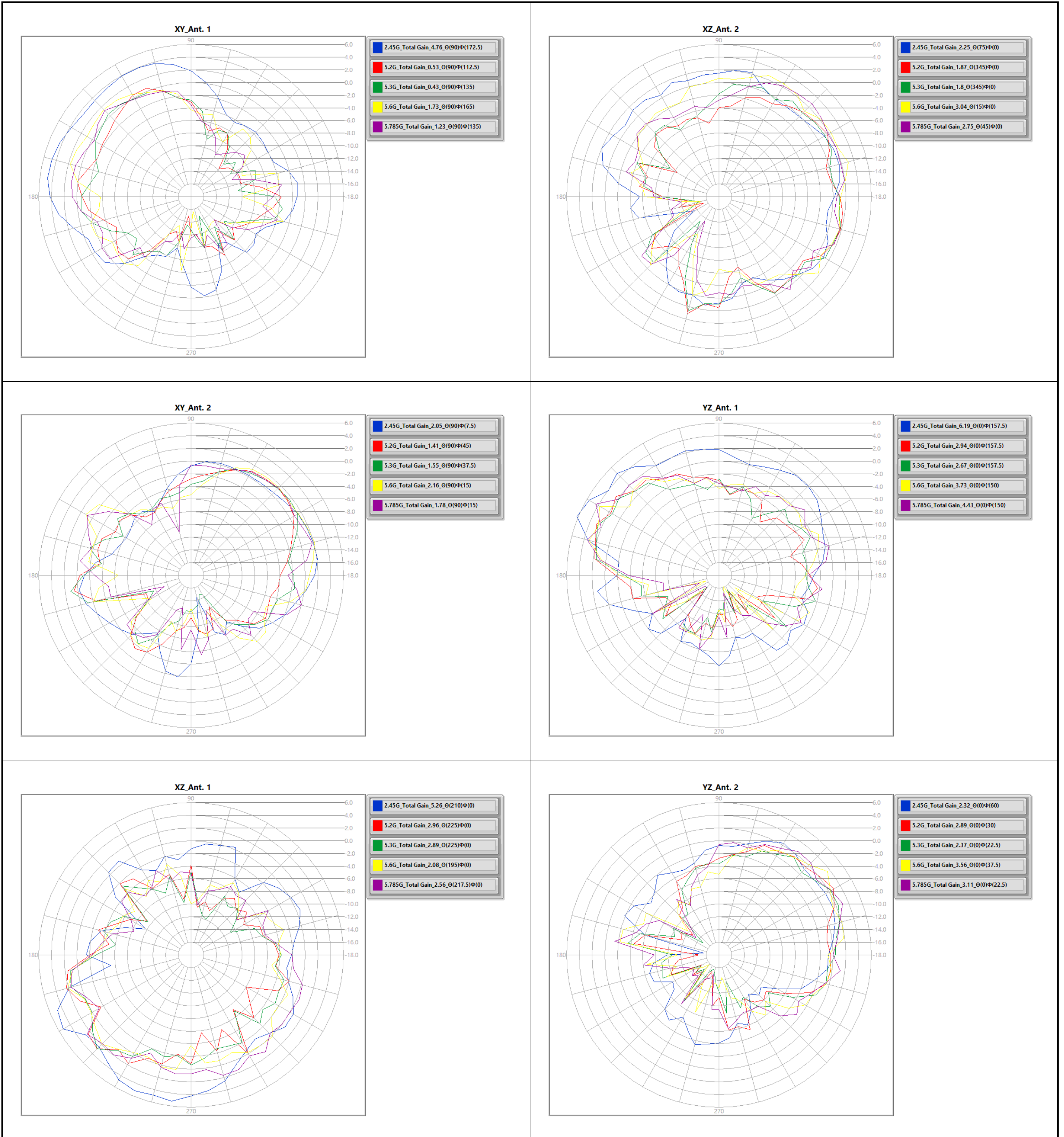


Antenna Pattern (2.4GHz and 5GHz UNII 1~UNII 3)

Appendix C

Θ(75°)	1.50/-1.13	2.53/-3.42	3.17/2.67	2.49/2.27	2.00/1.56	1.64/1.09	-0.51/-0.89	-5.05/-10.28	-2.96/-2.01	-5.43/-4.51	-1.96/-2.03	-2.04/-3.33	-5.68/-8.48	-5.48/-3.58	-2.67/-3.37	-5.49/-5.96	-4.09/-5.64	-7.52/-8.61	-11.02/-10.05	-8.59/-12.53	-11.05/-6.18	-2.82/-1.29	-2.04/-3.51	-1.17/-1.28
Θ(82.5°)	0.69/0.45	2.00/2.91	2.67/2.26	2.32/2.32	2.06/1.54	0.51/-0.82	-2.41/-2.82	-3.82/-10.53	-5.08/-1.69	-3.12/-2.85	-1.14/-1.25	-1.17/-2.56	-6.12/-6.95	-8.36/-11.62	-7.30/-7.90	-6.13/-4.33	-6.90/-6.09	-5.27/-8.19	-14.38/-15.31	-8.02/-9.51	-14.70/-6.95	-3.84/-2.98	-4.10/-3.57	-0.31/-1.59
Θ(90°)	0.62/-1.39	2.16/-1.79	1.44/-1.34	1.53/-1.50	1.27/0.36	-1.53/-3.44	-5.33/-5.64	-7.05/-6.34	-6.19/-4.99	-4.40/0.26	1.12/-1.92	-1.84/-1.77	-6.58/-3.40	-2.06/-8.13	-10.90/-6.19	-4.51/-4.35	-4.74/-10.09	-8.69/-10.61	-12.82/-9.43	-7.96/-11.86	-9.23/-5.52	-3.30/-3.22	-4.78/-5.21	-1.78/0.24
Θ(97.5°)	0.01/-0.38	1.02/2.06	1.91/-1.19	0.68/0.83	0.98/-0.12	-2.51/-5.01	-4.83/-5.36	-6.93/-7.79	-5.90/-4.33	-2.35/-0.96	-0.45/-2.54	-2.52/-2.15	-2.98/-2.18	-1.62/-6.05	-8.81/-8.05	-6.59/-3.44	-4.33/-8.89	-14.24/-14.64	-13.55/-9.01	-10.32/-14.12	-11.02/-6.99	-4.33/-4.05	-7.33/-4.69	-1.29/0.53
Θ(105°)	-0.08/-0.55	0.15/0.16	0.22/0.75	0.67/0.13	0.17/-0.71	-3.03/-5.34	-6.90/-7.33	-8.14/-8.16	-5.78/-5.22	-3.45/-1.33	-0.52/-2.72	-5.44/-3.81	-1.84/-0.64	0.05/-3.55	-6.78/-12.35	-8.86/-8.58	-8.23/-9.22	-11.46/-10.64	-12.65/-13.57	-9.09/-11.12	-10.47/-7.58	-5.19/-7.74	-4.80/-4.88	-2.71/-0.28
Θ(112.5°)	-1.97/-1.61	-0.64/-0.42	-1.14/-1.42	-0.71/0.25	0.29/-1.20	-3.96/-5.93	-6.73/-8.59	-9.12/-7.17	-5.60/-5.60	-5.70/-4.25	-3.40/-2.45	-3.72/-5.77	-7.34/-7.17	-6.62/-9.73	-8.76/-5.12	-3.71/-5.19	-7.30/-13.16	-15.15/-13.16	-8.25/-10.47	-13.19/-11.65	-11.00/-8.59	-7.57/-5.55	-7.21/-6.54	-3.63/-2.17
Θ(120°)	-1.75/-2.47	-2.51/-1.71	-2.12/-2.57	-2.64/-2.28	-2.38/-3.73	-4.48/-5.33	-8.86/-11.24	-9.40/-8.08	-6.15/-6.93	-4.87/-4.05	-8.94/-10.80	-4.86/-6.24	-11.26/-9.12	-8.48/-15.51	-11.57/-5.46	-2.85/-8.19	-14.09/-6.06	-7.85/-12.10	-13.00/-9.41	-9.42/-14.68	-14.29/-10.65	-3.64/-4.40	-4.36/-6.17	-3.42/-1.78
Θ(127.5°)	-1.55/-2.58	-3.12/-3.88	-4.34/-3.88	-3.67/-3.07	-4.16/-5.54	-6.12/-6.22	-7.46/-10.36	-13.05/-10.79	-7.25/-6.55	-6.73/-8.18	-6.19/-4.98	-4.80/-8.39	-9.99/-14.88	-11.39/-6.58	-2.41/-2.69	-5.74/-9.20	-8.31/-4.72	-9.01/-14.12	-9.39/-6.03	-11.58/-10.22	-8.44/-6.61	-8.68/-6.35	-5.50/-4.52	-1.92/-1.23
Θ(135°)	-1.95/-2.34	-2.73/-3.94	-4.86/-6.13	-6.51/-6.94	-6.39/-6.48	-6.85/-7.33	-8.88/-9.47	-7.32/-7.72	-10.03/-7.83	-5.65/-4.66	-4.04/-5.86	-12.13/-6.26	-2.77/-4.04	-4.30/-3.08	-2.27/-6.06	-7.39/-13.49	-6.87/-7.05	-13.32/-15.92	-15.91/-12.26	-13.47/-12.31	-14.32/-11.46	-14.21/-10.30	-7.33/-5.49	-2.44/-2.42
Θ(142.5°)	-1.93/-0.75	-0.43/-1.08	-1.38/-2.34	-3.70/-4.68	-5.50/-5.79	-4.98/-7.11	-11.80/-10.35	-8.28/-6.44	-4.69/-4.20	-6.87/-8.99	-4.50/-3.01	-3.57/-4.09	-4.69/-4.93	-4.27/-4.09	-4.95/-5.71	-7.18/-6.76	-6.11/-12.74	-14.13/-13.85	-14.73/-8.88	-7.47/-13.06	-11.17/-10.19	-7.43/-7.29	-9.75/-9.37	-6.93/-3.26
Θ(150°)	-3.42/-2.28	-1.29/-1.17	-1.78/-2.65	-3.31/-3.57	-3.64/-4.09	-4.93/-5.47	-4.75/-3.46	-3.91/-6.08	-7.24/-9.40	-2.97/-1.42	-0.85/-1.54	-2.88/-5.72	-6.61/-6.80	-9.54/-12.19	-10.55/-8.91	-7.18/-3.97	-4.66/-8.91	-10.56/-11.04	-13.65/-10.30	-8.92/-5.71	-2.55/-3.05	-5.07/-6.02	-8.15/-8.73	-5.96/-4.74
Θ(157.5°)	-5.15/-6.02	-5.11/-4.84	-4.27/-3.90	-3.35/-2.86	-2.95/-3.75	-4.82/-4.58	-5.13/-6.12	-5.78/-2.39	-0.22/0.39	-0.29/-1.58	-3.12/-4.93	-6.69/-8.17	-11.58/-15.15	-14.71/-11.87	-10.75/-11.53	-9.77/-8.90	-9.27/-9.98	-9.65/-9.54	-9.14/-8.27	-10.50/-8.29	-4.17/-1.96	-1.77/-1.80	-1.83/-2.50	-3.22/-4.23
Θ(165°)	-3.61/-3.84	-4.18/-4.46	-4.04/-3.28	-2.85/-3.01	-3.62/-3.33	-3.12/-3.14	-2.39/-1.43	0.24/0.63	0.26/-1.24	-3.19/-5.81	-9.66/-11.94	-13.05/-13.60	-15.16/-13.85	-14.68/-15.45	-14.92/-13.71	-12.29/-11.66	-12.57/-11.89	-14.05/-15.55	-11.18/-8.11	-7.47/-6.91	-5.07/-2.80	-2.25/-2.31	-2.04/-2.45	-3.27/-3.54
Θ(172.5°)	-5.84/-6.44	-6.91/-7.39	-6.93/-6.52	-6.37/-5.16	-4.80/-4.70	-3.57/-2.71	-2.26/-2.38	-3.39/-5.34	-7.57/-9.44	-9.88/-9.50	-9.17/-9.13	-9.57/-10.09	-12.36/-14.14	-14.00/-13.10	-11.09/-10.52	-11.36/-10.19	-9.20/-7.82	-7.72/-7.74	-6.63/-5.80	-5.70/-6.09	-5.60/-4.53	-3.22/-3.36	-3.61/-3.66	-4.23/-5.24
Θ(180°)	-6.37/-6.32	-6.78/-6.52	-6.67/-6.43	-6.73/-7.14	-7.52/-7.27	-7.16/-8.87	-11.53/-14.95	-14.27/-9.69	-7.38/-6.19	-6.37/-6.56	-6.91/-9.62	-12.88/-12.83	-11.59/-9.85	-8.61/-8.35	-7.52/-6.02	-5.66/-5.15	-4.78/-4.77	-4.76/-4.90	-5.27/-6.08	-6.64/-7.30	-7.22/-6.47	-5.39/-5.20	-4.96/-5.25	-5.74/-6.33
Freq[Hz]	5.785GPol.	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°)	0.59/0.77	0.95/0.63	0.60/0.45	-0.03/-0.08	0.15/0.58	0.35/-0.37	-0.00/-1.25	1.76/-1.95	1.90/-1.95	1.99/-1.89	1.82/-1.41	0.89/0.66	0.78/-1.18	1.42/-1.58	1.53/-1.28	1.56/-1.80	1.58/-1.60	1.01/-1.28	1.62/-1.50	1.44/-1.36	1.54/-1.63	1.49/-1.12	1.33/-1.07	0.53/-0.46
Θ(7.5°)	1.94/-1.77	1.79/-1.76	1.58/-1.64	1.23/0.91	0.71/-1.35	1.28/0.81	0.80/0.88	1.03/-1.18	1.25/-1.39	1.14/-1.36	1.60/-1.45	1.36/0.60	0.36/0.53	0.51/0.65	0.44/0.39	0.50/0.65	0.33/0.41	0.37/0.74	1.23/-1.15	1.25/-1.43	1.83/-1.77	1.73/-1.80	2.08/-1.93	1.84/-0.02
Θ(15°)	1.85/-1.50	1.81/2.00	1.78/-1.51	1.54/-1.59	1.68/-1.76	2.05/-1.95	1.68/-1.31	1.34/-1.58	1.72/-1.63	1.91/-1.71	1.89/-2.05	2.07/-1.91	1.73/-1.65	1.29/0.93	0.97/0.90	0.61/0.37	-0.12/-0.78	-0.36/-0.55	-0.71/0.09	0.56/-1.02	1.15/-1.40	1.71/-1.81	1.91/-1.87	2.02/-1.98
Θ(22.5°)	2.04/-2.32	2.79/-2.84	2.56/-2.47	2.62/-2.50	2.68/-3.17	3.65/-3.46	3.11/-3.17	3.25/-3.26	3.06/-2.75	2.28/-1.96	2.27/-2.35	1.97/-1.80	1.64/-1.32	1.45/-1.22	1.23/0.83	0.63/0.24	-0.38/-1.05	-1.89/-2.65	-2.22/-1.14	-0.13/0.54	0.82/0.96	0.88/-1.23	1.33/-1.51	1.75/-1.86
Θ(30°)	1.83/-2.24	2.82/-3.38	3.73/-3.93	3.50/-2.82	2.73/-3.10	2.85/-2.48	2.39/-3.02	3.62/-3.69	3.09/-2.29	1.83/-1.53	1.63/-1.40	0.54/0.10	-0.88/-1.52	-1.02/-1.22	-1.89/-3.14	-4.28/-3.98	-2.85/-1.97	-2.75/-3.80	-3.48/-1.87	-0.10/0.27	-0.10/-0.58	-1.07/0.18	1.47/-1.86	1.96/-2.08
Θ(37.5°)	2.33/-2.63	3.28/-3.85	3.96/-3.61	3.17/-2.62	2.47/-1.67	0.96/0.35	1.35/-2.05	2.27/-2.31	2.28/-2.01	2.12/0.81	0.65/0.50	0.57/0.47	0.29/-1.35	1.35/0.82	0.33/0.38	-0.56/-1.67	-2.62/-2.66	-2.95/-3.40	-2.58/-1.03	-1.32/-1.34	-1.49/-1.20	-0.80/0.11	1.25/-2.14	2.26/-2.10
Θ(45°)	2.75/-3.75	3.89/-3.86	3.42/-3.19	2.64/-2.20	1.84/-1.34	1.53/-2.18	2.44/-1.77	1.34/0.84	0.53/0.25	0.14/0.19	0.85/-1.58	1.01/-0.52	-1.53/-0.62	-0.73/-0.28	-0.74/-1.48	-1.36/-1.96	-3.64/-4.00	-4.88/-5.63	-4.43/-4.53	-3.24/-2.40	-3.70/-1.44	0.57/-1.02	1.48/-1.58	1.41/-1.72
Θ(52.5°)	2.40/-2.50	2.70/-2.72	2.90/-2.85	2.52/-2.39	1.98/-1.20	1.48/-2.26	2.52/-2.07	1.83/-1.39	0.24/-1.03	-1.28/-1.08	-0.72/0.22	-0.42/-0.87	0.45/0.93	0.15/-0.63	-1.70/-2.08	-2.62/-2.36	-2.08/-5.29	-6.77/-5.21	-7.77/-5.32	-4.64/-8.60	-5.05/-2.19	-0.70/0.17	0.84/-1.39	1.04/-1.59
Θ(59.5°)	2.19/-2.12	2.78/-3.21	3.58/-3.60	3.79/-3.89	3.20/-2.39	1.88/-1.36	1.41/-1.52	1.05/-1.00	-2.67/-1.90	-1.28/-2.36	-4.38/-4.59	-4.78/-3.62	-2.02/-1.65	-2.03/-3.12	-2.99/-4.02	-4.25/-4.16	-6.24/-6.71	-8.71/-9.08	-7.28/-6.18	-5.55/-1.45	-1.16/-1.75	-1.08/0.24	0.05/-1.73	
Θ(67.5°)	1.39/0.66	2.23/-3.35	3.55/-2.95	2.65/-2.38	2.24/-2.16	0.88/0.51	0.84/-0.38	-2.16/-3.89	-4.83/-3.47	-3.88/-5.41	-4.55/-5.84	-5.43/-3.63	-2.97/-2.90	-2.47/-0.62	-0.05/-0.77	-4.14/-6.26	-4.24/-6.07	-15.02/-8.42	-8.15/-8.42	-8.86/-14.38	-8.22/-3.58	-3.87/-3.95	-1.94/-0.86	1.34/-2.46
Θ(75°)	-0.08/0.15	2.78/-3.76	3.31/-2.81	2.47/-2.17	2.07/-1.73	0.47/-0.21	-0.52/-1.71	-3.31/-6.81	-9.01/-2.66	-3.31/-8.82	-6.08/-4.22	-1.86/-1.08	-3.45/-7.15	-5.04/-3.22	-1.95/-4.04	-4.91/-4.19	-4.82/-4.71	-10.07/-8.97	-7.30/-5.00	-4.99/-12.36	-10.12/-4.22	-3.61/-4.73	-3.26/-2.56	0.26/-1.18
Θ(82.5°)	-1.78/0.82	3.36/-3.67	2.33/-1.45	0.93/-1.46	1.20/0.44	0.88/-1.30	-0.19/-3.72	-6.58/-7.97	-12.22/-5.55	-5.12/-5.12	-1.25/-1.33	-0.69/-0.37	-2.42/-5.53	-6.69/-7.66	-6.70/-6.99	-3.62/-4.83	-9.84/-3.89	-5.82/-11.74	-6.34/-6.32	-6.75/-10.85	-7.20/-5.88	-6.58/-6.77	-4.80/-2.63	0.70/0.52
Θ(90°)	-2.79/0.33	1.78/-1.14	0.75/-1.36	1.43/-1.00	0.86/0.04	-0.60/-0.61	-0.64/-3.80	-10.91/-5.71	-6.02/-7.87	-4.32/-1.53	0.91/-0.45	-1.74/-0.38	-2.84/-4.86	-4.90/-13.40	-10.06/-5.25	-5.04/-5.66	-7.21/-12.09	-12.73/-6.22	-9.36/-5.44	-7.52/-11.88	-7.10/-7.31	-4.61/-6.70	-6.59/-1.77	-0.03/-1.19
Θ(97.5°)	-3.85/-0.06	1.46/-1.25	-0.11/-0.24	0.56/0.61	0.01/-0.68	-1.93/-4.44	-4.04/-4.53	-7.43/-7.75	-7.13/-6.48	-2.27/-1.06	0.24/0.52	-0.75/-1.44	-2.28/-2.03	-1.78/-9.18	-10.61/-7.28	-5.88/-3.70	-3.86/-9.13	-15.76/-10.67	-9.29/-10.82	-10.12/-8.79	-10.06/-6.06	-4.81/-7.62	-5.11/-1.61	-1.14/-2.81
Θ(105°)	-3.34/-1.99	-0.83/-1.82	-0.93/0.10	0.62/0.42	0.11/-0.16	-1.87/-4.50	-4.94/-5.88	-7.66/-7.05	-6.27/-5.96	-2.94/-0.41	-0.40/-0.53	-1.54/-4.64	-4.44/-1.66	0.16/-3.86	-6.06/-7.88	-5.18/-6.44	-6.59/-6.75	-14.30/-11.92	-14.88/-14.20	-9.28/-11.50	-11.73/-6.99	-5.46/-6.71	-5.40/-2.70	-3.26/-3.41
Θ(112.5°)	-3.54/-1.69	-1.75/-2.32	-3.05/-2.22	-0.78/-0.90	-1.60/-2.11	-3.40/-4.54	-6.51/-8.69	-8.62/-5.90	-7.65/-8.29	-4.31/-1.34	-3.65/-3.25	-0.38/-3.11	-9.15/-8.22	-8.21/-7.99	-7.80/-6.28	-5.30/-4.33	-4.79/-10.66	-12.81/-11.40	-14.05/-14.66	-8.94/-8.31	-11.10/-4.95	-4.14/-8.48	-7.34/-4.52	-5.58/-3.38
Θ(120°)	-3.65/-3.51	-2.36/-2.13	-2.26/-2.54	-3.31/-3.62	-2.71/-2.91	-4.41/-7.20	-9.01/-10.89	-9.45/-8.19	-6.02/-6.35	-4.68/-1.98	-3.36/-12.77	-6.14/-6.35	-13.54/-6.86	-5.35/-14.85	-8.37/-4.51	-3.06/-3.96	-6.99/-9.01	-4.96/-7.42	-13.54/-10.62	-9.18/-11.81	-11.62/-7.55	-5.31/-7.95	-6.84/-5.11	-3.43/-3.13
Θ(127.5°)	-2.53/-3.12	-3.62/-4.64	-4.73/-4.51	-4.92/-5.22	-4.91/-5.32	-6.18/-6.10	-6.99/-8.68	-12.18/-11.01	-6.74/-5.32	-7.15/-8.81	-5.55/-3.92	-4.91/-5.97	-6.43/-15.19	-8.49										

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 UNII5~UNII8)

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	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°)	-0.26/-0.31	-0.60/-0.68	0.06/-0.12	0.65/-1.5	1.26/-1.04	0.96/-1.3	1.83/-2.19	2.67/-2.51	1.99/-1.66	1.84/-2.33	2.19/-1.93	2.04/-1.92	1.82/-1.73	1.72/-1.80	1.76/-1.54	1.11/-1.23	0.97/-0.92	0.81/-1.77	0.49/-0.55	0.71/-1.00	0.60/-0.50	0.56/-0.93	0.58/-0.26	-0.02/-0.28
Θ(7.5°)	1.57/-1.05	0.77/-1.01	0.85/-0.63	1.18/-1.19	0.77/-0.68	0.27/-0.14	-0.03/-0.06	0.12/-0.13	-0.21/-0.79	-0.91/-0.26	-0.09/-0.41	-0.41/-0.14	0.10/-0.32	0.52/-0.85	0.94/-0.94	1.20/-1.07	1.24/-1.36	1.38/-1.43	1.47/-1.47	1.48/-1.85	1.95/-2.10	2.31/-2.66	3.03/-2.91	2.52/-2.20
Θ(15°)	1.13/-0.88	0.02/-1.08	0.72/-0.81	1.25/-0.54	-0.26/-0.24	-0.31/-0.00	0.10/-0.37	0.82/-0.75	0.72/-0.12	-0.72/-1.20	-1.39/-1.52	-2.24/-2.43	-2.74/-2.19	-1.84/-1.59	-1.24/-1.09	-0.81/-0.55	-0.37/-0.16	-0.17/-0.04	0.20/-0.19	0.48/-0.87	1.48/-1.80	1.82/-2.05	2.31/-2.17	1.95/-1.37
Θ(22.5°)	-0.62/-1.52	-1.66/-0.79	-0.52/-0.32	0.76/-0.29	-0.04/-0.42	0.98/-1.36	1.50/-1.22	0.98/-0.25	-0.31/-0.30	-0.49/-0.64	-1.27/-2.60	-2.95/-2.70	-2.84/-2.86	-2.56/-2.27	-1.61/-1.31	-1.32/-0.94	-1.31/-2.29	-2.63/-2.32	-1.90/-0.96	-0.70/-0.60	0.01/-0.83	1.27/-1.13	1.64/-1.44	0.70/-0.22
Θ(30°)	-0.85/-1.70	-0.91/-0.35	0.70/-0.03	-0.99/-1.27	-1.10/-0.23	0.35/-0.40	-0.10/-0.63	-0.86/-0.97	-1.41/-2.60	-3.73/-3.31	-5.94/-4.08	-3.13/-3.25	-3.61/-4.29	-4.19/-4.70	-5.42/-5.13	-4.76/-4.67	-4.20/-3.74	-2.89/-1.61	-0.37/-0.22	0.43/-1.36	2.00/-2.06	1.99/-1.42	0.67/-0.37	0.67/-0.37
Θ(37.5°)	-0.26/-0.18	0.31/-0.09	-1.61/-3.05	-2.60/-2.29	-1.18/-0.95	-1.60/-1.60	-0.41/-0.86	0.74/-0.74	-2.39/-3.50	-3.02/-2.92	-4.39/-7.52	-8.27/-6.42	-3.90/-4.11	-3.69/-4.26	-5.97/-7.16	-6.50/-7.41	-7.85/-6.89	-4.17/-2.60	-1.86/-2.99	-2.29/-1.42	-0.84/-0.24	0.31/-0.12	-1.05/-1.61	-0.50/-0.21
Θ(45°)	0.44/-0.72	0.44/-1.52	-1.72/-1.62	-2.42/-2.44	-2.85/-3.89	-0.05/-4.79	-3.37/-2.88	-3.17/-2.95	-3.53/-4.36	-4.98/-5.16	-4.58/-6.67	-4.86/-4.28	-6.17/-5.81	-4.00/-7.88	-10.41/-5.17	-3.70/-5.79	-10.76/-12.45	-7.69/-5.10	-4.98/-4.38	-4.74/-3.09	-4.01/-1.31	1.85/-1.94	1.14/-0.09	-0.28/-0.37
Θ(52.5°)	0.16/-0.37	-0.32/-0.81	-0.64/-2.08	-3.68/-7.31	-6.02/-4.74	-4.59/-4.24	-4.27/-4.61	-3.20/-1.97	-0.32/-1.03	-3.21/-5.79	-7.10/-6.64	-3.08/-5.62	-6.74/-6.95	-7.97/-4.92	-5.23/-5.40	-7.00/-7.78	-8.89/-8.85	-9.76/-7.42	-7.83/-8.35	-4.81/-2.25	-0.76/-0.69	1.14/-0.22	-0.36/-1.35	-0.47/-0.13
Θ(60°)	1.94/-1.73	0.97/-1.13	-0.72/-2.04	-1.50/-3.01	-6.28/-9.49	-8.29/-7.76	-7.18/-8.22	-7.10/-5.13	-4.67/-4.32	-3.80/-5.59	-7.39/-7.58	-6.38/-4.97	-8.28/-10.81	-6.64/-7.16	-13.14/-11.08	-6.93/-10.36	-13.34/-11.96	-13.38/-12.75	-11.68/-8.64	-6.27/-3.71	-1.54/-1.61	-0.36/-0.37	1.73/-1.90	2.21/-1.30
Θ(67.5°)	2.59/-1.19	1.71/-0.29	-2.39/-3.65	-4.00/-2.37	-3.05/-6.15	-10.81/-11.74	-11.30/-11.05	-9.59/-12.32	-12.23/-11.94	-6.47/-3.84	-4.37/-11.05	-10.04/-7.46	-8.78/-9.75	-7.98/-7.42	-9.74/-8.92	-10.55/-9.02	-11.50/-12.01	-14.68/-14.65	-14.06/-9.41	-5.43/-3.56	-2.27/-0.16	1.85/-1.34	2.17/-1.25	1.83/-2.31
Θ(75°)	2.32/-0.43	-0.32/-0.53	-1.90/-0.21	-1.69/-4.64	-5.14/-8.35	-11.08/-9.58	-11.95/-13.27	-10.00/-7.67	-6.24/-8.72	-13.38/-8.81	-7.35/-6.16	-15.38/-14.23	-7.85/-9.74	-9.10/-10.09	-8.16/-9.75	-9.31/-11.48	-10.46/-11.05	-14.21/-15.71	-16.10/-15.19	-5.90/-3.76	-1.73/-0.05	1.61/-1.25	0.26/-0.22	1.24/-1.19
Θ(82.5°)	1.94/-1.96	0.78/-0.42	-1.28/-0.17	-1.53/-5.64	-10.09/-8.77	-5.63/-9.35	-14.03/-14.05	-10.39/-9.45	-9.78/-7.95	-15.83/-15.53	-11.86/-4.72	-5.89/-9.97	-4.76/-9.31	-6.97/-4.34	-8.56/-11.70	-10.10/-14.19	-10.79/-10.10	-14.45/-8.77	-8.39/-8.11	-4.94/-1.41	-1.63/-0.65	-0.06/-1.35	2.00/-2.38	2.65/-2.95
Θ(90°)	-0.06/-0.84	0.09/-2.70	-1.51/-1.09	-4.27/-10.39	-11.79/-9.59	-8.08/-15.24	-15.24/-10.50	-10.34/-11.93	-15.75/-14.62	-11.74/-8.35	-10.74/-6.59	-5.17/-9.20	-11.03/-8.70	-10.90/-6.11	-6.92/-9.31	-9.60/-14.59	-12.97/-11.28	-9.89/-11.64	-6.82/-5.92	-1.91/-0.65	0.40/-0.69	1.32/-1.01	1.93/-2.17	0.50/-0.30
Θ(97.5°)	0.77/-1.50	0.92/-1.80	-2.03/-2.28	-6.95/-11.36	-9.59/-6.66	-9.99/-13.28	-10.39/-7.86	-7.43/-6.25	-6.55/-14.33	-10.93/-7.06	-8.03/-14.55	-11.81/-10.89	-13.49/-12.88	-5.62/-7.10	-8.90/-9.56	-7.23/-10.19	-13.37/-12.57	-8.78/-9.10	-7.43/-4.77	-2.00/-0.05	-1.05/-0.18	1.42/-2.48	3.19/-2.79	0.69/-1.34
Θ(105°)	-0.36/-0.67	0.23/-1.97	-4.35/-8.46	-8.83/-9.80	-8.84/-5.33	-6.52/-7.85	-7.20/-5.92	-6.07/-6.26	-5.61/-11.54	-12.23/-14.57	-13.73/-12.84	-9.76/-9.81	-6.38/-12.91	-8.86/-12.74	-10.18/-10.67	-6.88/-9.94	-14.33/-13.81	-12.35/-11.78	-12.61/-5.13	-1.85/-0.42	0.53/-0.14	1.50/-2.39	2.79/-2.04	0.53/-0.10
Θ(112.5°)	0.62/-0.11	-0.88/-1.74	-3.96/-7.64	-4.45/-4.27	-6.12/-7.96	-7.04/-5.15	-4.40/-8.03	-5.05/-3.92	-5.81/-10.33	-7.95/-9.34	-10.22/-7.23	-6.06/-8.93	-4.53/-5.42	-6.58/-15.26	-14.12/-8.52	-5.13/-8.50	-10.74/-9.73	-10.03/-8.30	-15.63/-6.74	-3.67/-0.83	-1.07/-1.34	0.80/-0.44	3.83/-2.35	1.95/-1.26
Θ(120°)	2.00/-1.21	-2.09/-5.03	-3.93/-4.34	-6.31/-5.70	-3.63/-3.86	-4.79/-2.39	-4.06/-7.79	-8.16/-8.08	-6.76/-7.78	-9.14/-8.01	-11.66/-10.13	-10.01/-14.48	-14.54/-9.70	-9.56/-9.44	-11.80/-8.43	-4.86/-7.62	-7.34/-7.41	-15.04/-11.43	-5.53/-4.59	-0.20/-0.95	-0.07/-0.15	-1.02/-0.56	-0.43/-1.00	1.32/-1.62
Θ(127.5°)	0.72/-1.72	-0.45/-2.45	-1.98/-0.50	-0.67/-1.46	-3.68/-3.95	-3.54/-3.61	-4.22/-7.27	-6.22/-4.65	-4.22/-5.56	-14.44/-10.98	-12.23/-4.58	-10.20/-13.41	-12.23/-4.58	-10.50/-5.76	-5.86/-4.22	-9.00/-7.27	-4.79/-2.70	-9.60/-13.58	-6.21/-5.21	-0.25/-3.46	-2.09/-0.36	0.12/-2.38	3.88/-0.02	0.29/-0.55
Θ(135°)	0.88/-1.99	1.50/-0.00	0.03/-0.71	0.09/-0.11	-1.26/-1.82	-2.46/-1.30	-1.12/-2.17	-3.50/-4.34	-3.81/-4.96	-13.17/-10.77	-7.66/-6.22	-1.78/-3.96	-5.47/-7.28	-7.64/-10.07	-7.57/-6.04	0.15/-7.87	-1.50/-3.32	-1.25/-11.13	-8.62/-2.28	-0.98/-1.70	-3.32/-0.68	-3.54/-2.35	2.52/-1.65	2.72/-2.62
Θ(142.5°)	-1.05/-1.12	-1.30/-1.18	0.09/-0.47	-2.33/-2.40	-2.42/-3.41	-6.37/-5.71	-6.47/-6.67	-9.02/-12.72	-10.98/-13.19	-15.37/-13.07	-12.18/-6.62	-2.86/-3.80	-3.73/-0.36	-0.25/-6.35	-2.85/-1.87	-5.71/-10.35	-0.60/-3.75	1.46/-6.81	-4.92/-0.32	-0.37/-1.25	-0.69/-3.59	-4.15/-3.21	-1.14/-2.42	-1.83/-0.49
Θ(150°)	-5.99/-6.79	-6.64/-5.45	-6.74/-4.22	-4.42/-12.40	-12.42/-10.72	-6.72/-6.85	-1.84/-4.74	-6.77/-9.99	-9.78/-9.99	-6.66/-7.68	-5.34/-4.79	-9.55/-13.22	-11.13/-5.36	-2.53/-3.09	-11.15/-13.76	-1.30/-2.30	2.98/-4.76	2.97/-1.89	-4.44/-2.31	-1.06/-0.30	1.79/-1.17	1.00/-1.61	-1.46/-3.80	-0.96/-4.40
Θ(157.5°)	-4.66/-5.28	-5.18/-2.55	-1.11/-2.07	-0.68/-0.48	0.01/-1.55	-3.21/-5.93	-8.34/-7.80	-9.00/-10.55	-13.45/-11.92	-8.53/-6.47	-6.13/-6.40	-7.27/-8.70	-12.23/-12.60	-8.97/-4.22	0.05/-2.79	3.58/-3.29	2.17/-0.39	-4.29/-6.74	-7.42/-3.25	-1.41/-0.67	0.67/-1.57	1.01/-0.15	-2.05/-3.32	-4.05/-4.37
Θ(165°)	-0.24/-0.57	1.90/-1.83	1.11/-1.34	0.69/-1.17	-3.23/-6.39	-9.64/-11.63	-10.73/-15.70	-14.40/-14.98	-7.41/-6.01	-3.56/-3.03	-3.17/-4.26	-6.27/-7.48	-4.86/-7.46	-3.70/-5.52	3.03/-4.32	4.53/-3.59	2.07/-0.27	-1.53/-1.93	-1.55/-0.78	-0.36/-0.52	-0.60/-0.41	-0.25/-0.53	-0.02/-0.04	-0.43/-0.59
Θ(172.5°)	-1.53/-1.28	-2.48/-3.39	-4.48/-4.97	-4.38/-4.53	-4.99/-6.07	-8.06/-9.93	-12.87/-12.98	-13.10/-13.84	-13.43/-13.41	-12.37/-13.38	-15.51/-15.58	-14.65/-15.43	-8.60/-4.73	-5.28/-4.43	-1.48/-4.82	-5.65/-5.52	-5.71/-5.96	-6.70/-7.18	-6.86/-6.19	-5.57/-4.45	-1.66/-2.35	-1.66/-2.16	-1.24/-1.27	
Θ(180°)	-4.64/-6.15	-6.47/-5.76	-4.60/-3.23	-2.77/-4.59	-6.93/-8.77	-11.97/-15.49	-14.88/-14.98	-15.64/-14.64	-15.70/-15.96	-15.12/-14.82	-14.68/-15.41	-13.49/-13.37	-13.80/-13.44	-11.56/-10.69	-11.44/-11.79	-11.13/-10.49	-10.68/-10.06	-9.25/-8.49	-7.01/-5.99	-4.40/-4.47	-3.63/-4.30	-4.60/-5.19	-5.55/-4.64	-3.94/-4.16
Freq(Hz)	6.475GPol.	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°)	2.98/-3.38	3.54/-3.82	2.88/-2.46	1.97/-1.84	1.86/-1.83	1.95/-1.77	1.83/-1.57	1.90/-1.98	1.89/-1.98	1.99/-2.27	2.50/-2.57	2.70/-2.78	2.72/-2.64	2.64/-2.74	2.84/-2.73	2.25/-2.06	1.78/-1.78	1.82/-1.65	1.74/-1.88	1.87/-1.85	2.17/-2.38	2.53/-2.30	1.66/-1.58	2.17/-2.73
Θ(7.5°)	1.15/-1.54	2.77/-3.68	2.54/-1.77	1.24/-1.27	1.52/-1.91	1.99/-1.73	1.77/-1.52	1.68/-1.85	1.62/-1.80	1.57/-1.77	2.06/-1.95	1.99/-2.06	2.16/-2.22	2.16/-2.38	2.46/-2.07	1.89/-1.56	1.39/-1.38	1.20/-1.30	1.39/-1.59	1.63/-1.77	1.76/-1.65	1.65/-1.81	1.64/-1.12	0.96/-0.92
Θ(15°)	-0.86/-0.22	1.01/-0.59	-0.02/-0.25	-0.63/-0.40	-0.14/-0.02	0.11/-0.07	0.27/-0.34	-0.55/-0.53	-0.48/-0.03	0.56/-0.63	0.76/-1.32	1.53/-1.70	1.20/-1.15	0.61/-0.25	0.05/-0.04	-0.11/-0.43	-0.58/-0.92	-0.92/-0.29	0.38/-1.04	1.37/-1.51	1.49/-1.49	1.42/-1.39	1.02/-0.09	-0.99/-0.57
Θ(22.5°)	0.89/-0.47	0.68/-0.72	-1.52/-1.82	-1.97/-1.72	-1.50/-1.61	-1.07/-0.86	-1.73/-1.96	-1.28/-0.58	-0.24/-0.20	-0.17/-0.39	0.65/-0.80	0.97/-1.18	0.77/-0.38	-0.15/-0.40	-0.89/-1.33	-2.13/-2.69	-2.62/-2.55	-2.58/-2.19	-1.66/-0.70	0.22/-0.77	0.87/-1.33	1.53/-1.44	1.22/-0.71	0.95/-1.34
Θ(30°)	0.35/-1.00	0.60/-0.24	-1.57/-2.59	-1.99/-2.18	-3.32/-3.37	-3.79/-3.87	-3.84/-4.08	-3.76/-2.84	-1.76/-1.15	-1.19/-2.06	-2.82/-3.24	-3.37/-3.93	-4.77/-4.75	-4.56/-5.21	-4.37/-3.06	-2.66/-3.11	-2.73/-2.82	-2.95/-3.29	-2.95/-2.81	-2.19/-1.41	-1.06/-0.73	-0.15/-0.23	0.07/-0.63	1.11/-0.84
Θ(37.5°)	-0.77/-1.10	-0.90/-1.39	-1.70/-0.86	-0.81/-2.21	-4.44/-5.98	-1.78/-6.80	-6.83/-8.53	-3.60/-2.37	-2.01/-2.12	-2.40/-3.13	-3.34/-3.24	-3.44/-5.45	-4.09/-3.61	-4.80/-6.17	-6.21/-5.58									



Antenna Pattern (6GHz UNII5~UNII8)

Appendix D

Θ (15°)	-3.07/-2.31	-1.95/-1.91	-2.03/-2.29	-1.86/-1.62	-1.04/-0.97	-0.88/-0.43	-0.07/-1.39	-2.00/-1.71	-2.45/-3.50	-3.78/-3.88	-4.73/-5.07	-5.13/-5.55	-5.64/-6.30	-7.34/-10.65	-12.69/-13.70	-13.29/-13.10	-10.80/-11.37	-13.38/-13.09	-11.20/-12.66	-13.28/-9.89	-7.71/-6.58	-4.66/-4.70	-4.81/-4.65	-4.68/-3.82
Θ (22.5°)	-1.81/-1.71	-0.87/-1.42	-1.96/-2.41	-2.91/-1.83	-1.21/-1.25	-1.03/-0.61	-0.24/-0.35	-0.38/-0.08	0.01/-0.80	-3.03/-4.08	-3.57/-4.60	-4.77/-3.80	-4.56/-4.88	-5.71/-6.34	-5.72/-5.78	-6.78/-8.11	-6.97/-41.7	-3.02/-3.32	-3.59/-4.87	-5.79/-4.27	-3.34/-3.89	-2.99/-2.71	-3.23/-3.80	-3.45/-3.07
Θ (30°)	-0.10/-0.56	-1.16/-1.21	-1.93/-1.20	-0.13/-0.34	-1.05/-0.52	-0.29/-0.41	-0.97/-1.21	-1.26/-1.14	-1.21/-1.26	-0.42/-2.94	-2.16/-1.69	-2.74/-2.84	-4.09/-5.20	-6.58/-8.31	-8.78/-10.08	-9.50/-9.47	-12.74/-13.31	-11.56/-11.43	-9.71/-8.90	-9.01/-7.57	-7.34/-5.85	-3.64/-2.59	-2.88/-1.96	-0.17/-0.30
Θ (37.5°)	0.45/-0.19	0.19/-0.23	-0.09/-0.47	-0.44/-0.86	-0.19/-0.04	0.030/1.1	0.530/2.0	-1.07/-1.85	-1.29/-1.00	-1.02/-0.77	-0.84/-1.01	-3.00/-3.91	-5.74/-7.14	-5.65/-4.17	-6.21/-6.46	-8.22/-5.84	-5.41/-6.18	-7.94/-13.81	-13.40/-7.52	-5.33/-4.33	-5.37/-6.38	-7.31/-3.00	-3.33/-2.69	-1.23/-0.04
Θ (45°)	-0.690/-19	0.50/-0.21	-0.63/-0.19	-0.17/-0.60	-0.32/-0.90	-0.80/-0.33	-0.71/-1.80	-1.78/-1.32	-1.18/-0.05	0.550/0.3	-0.93/-2.09	-4.05/-2.47	-3.55/-5.46	-5.35/-5.78	-7.37/-8.70	-4.89/-2.91	-6.42/-6.98	-10.25/-8.84	-9.35/-11.35	-6.79/-5.96	-6.36/-4.41	-3.85/-2.17	-1.70/-2.64	-0.72/-0.69
Θ (52.5°)	0.281/60	-0.76/-1.29	0.260/37	0.02/-0.39	-0.59/-0.73	-0.72/-1.51	-1.75/-2.15	-2.52/-1.31	0.09/-0.50	-0.44/-0.61	0.24/-0.99	-2.24/-3.66	-5.46/-10.86	-6.27/-9.85	-9.11/-7.87	-4.84/-6.39	-3.23/-6.64	-13.35/-5.87	-5.60/-3.39	-1.23/-3.07	-2.83/-2.67	-3.06/-2.04	-0.73/-1.62	
Θ (60°)	0.080/19	-0.03/-1.24	-0.25/-0.05	1.000/23	-0.51/-0.51	-1.30/-3.19	-4.28/-4.22	-2.70/-2.22	-0.480/12	0.610/13	-0.04/-0.85	-5.16/-4.89	-5.22/-7.20	-6.24/-7.51	-14.55/-5.50	-1.98/-1.76	-3.59/-4.57	-6.30/-5.89	-3.90/-6.04	-1.68/-2.17	-0.080/20	-2.36/-1.38	-1.97/-0.72	-0.18/-1.84
Θ (67.5°)	0.82/-0.43	-0.02/-1.05	-1.280/10	-0.81/-0.96	-0.42/-0.32	-1.11/-2.25	-5.45/-5.13	-6.31/-3.41	-0.38/-1.62	0.690/70	-1.20/-1.73	-3.45/-2.38	-5.31/-3.05	-2.21/-5.64	-7.25/-4.91	-3.33/-3.39	-2.56/-8.51	-2.73/-3.25	-1.94/-2.61	-1.33/-1.68	-2.84/-0.03	-3.12/-0.14	-0.22/-0.52	-3.56/-0.15
Θ (75°)	-0.71/-0.64	-0.23/-1.38	-0.90/-0.20	-0.92/-1.37	-0.09/-0.94	-2.02/-4.28	-4.91/-3.93	-2.13/-4.07	-2.25/-0.91	1.30/-42	-1.04/-2.34	-2.18/-0.80	-2.83/-4.23	-0.11/-3.72	-3.87/-5.07	-2.82/-3.90	-4.99/-5.36	-0.76/-1.46	1.05/-1.67	-0.81/-1.38	-2.54/-1.37	-0.94/-1.61	-0.53/-0.63	-3.07/-1.8
Θ (82.5°)	-0.970/58	-0.72/-0.87	-0.08/-0.56	-2.19/-1.21	-0.500/27	-2.63/-6.25	-5.72/-5.81	-3.31/-2.33	-1.24/-0.87	0.22/-1.09	-0.82/-0.71	-1.08/-1.06	-0.66/-2.96	-1.52/-2.38	-2.55/-4.96	0.48/-5.01	-4.39/-0.87	0.84/-3.12	0.24/-3.19	-0.11/-2.58	-4.19/-2.92	-2.03/-0.88	0.07/-2.55	-1.33/-0.43
Θ (90°)	-0.270/-17	-0.55/-1.30	-2.62/-3.45	-2.40/-0.39	0.43/-0.68	-4.17/-6.00	-6.31/-4.34	-5.94/-2.53	-0.96/-1.58	0.601/61	-0.91/-1.09	-2.43/-0.72	-1.70/-3.07	-0.45/-0.70	-5.53/-8.78	-3.03/-2.69	-1.560/58	0.23/-4.00	0.70/-3.44	-5.96/-6.64	-4.29/-4.90	-1.80/-1.11	-0.93/-1.96	-1.69/-3.33
Θ (97.5°)	-0.840/12	-1.18/-2.14	-2.53/-3.61	-2.60/-0.96	-0.11/-0.68	-5.08/-6.33	-6.96/-6.05	-9.18/-6.04	-2.45/-2.47	-0.93/-1.84	0.08/-1.37	-1.47/-0.68	-3.99/-4.08	-3.18/-2.03	-4.21/-7.87	-3.57/-4.02	-3.28/-0.17	-3.89/-10.39	-5.85/-7.64	-6.67/-1.96	-5.85/-1.06	-2.35/-2.18	-1.90/-2.55	
Θ (105°)	-0.10/-1.42	-2.51/-2.33	-3.22/-4.17	-2.79/-1.16	-0.37/-2.17	-4.09/-7.59	-8.71/-4.16	-4.25/-9.28	-3.31/-0.59	-0.32/-1.09	1.44/-0.58	-3.61/-2.22	-3.48/-3.90	-4.45/-5.09	-6.48/-6.29	-6.54/-7.72	-4.52/-4.95	-5.46/-3.78	-3.24/-5.60	-7.99/-7.71	-4.98/-0.37	-1.36/-1.40	-4.06/-1.52	-3.45/-1.87
Θ (112.5°)	-1.62/-0.69	-1.48/-3.41	-4.26/-4.44	-3.80/-3.38	-2.16/-4.02	-4.93/-7.43	-9.19/-7.06	-4.57/-7.00	0.81/-0.30	1.370/95	-0.55/-6.06	-4.83/-2.47	-8.05/-15.03	-7.32/-6.41	-13.03/-7.06	-4.16/-1.36	-2.96/-0.51	-5.90/-3.85	0.27/-4.27	-4.45/-4.65	-1.38/-1.64	-1.96/-3.20	-5.12/-4.55	
Θ (120°)	-4.32/-2.30	-2.49/-3.76	-5.82/-8.70	-5.80/-2.06	-3.13/-5.98	-9.08/-8.38	-9.03/-5.93	-8.02/-4.49	-3.20/-1.43	0.090/25	1.24/-0.22	-1.76/-1.81	-3.39/-3.33	-6.47/-13.20	-11.52/-5.76	-7.03/-7.83	-4.31/-7.88	-10.46/-7.96	-5.54/-4.85	-5.57/-4.46	-5.93/-4.91	-4.40/-5.76	-3.27/-1.34	-1.69/-5.40
Θ (127.5°)	-4.79/-5.85	-6.07/-5.87	-6.50/-6.18	-3.97/-2.21	-2.62/-4.27	-5.57/-9.10	-8.87/-6.38	-4.16/-3.63	-5.50/-2.54	1.222/0.6	0.490/24	1.040/62	-2.66/-7.90	-8.72/-9.10	-4.36/-3.56	-11.20/-6.63	-7.99/-8.61	-6.31/-4.51	-4.69/-11.69	-9.83/-5.05	-4.81/-6.91	-7.60/-7.10	-4.26/-3.50	-5.76/-3.32
Θ (135°)	-5.22/-5.03	-7.15/-7.06	-7.67/-6.34	-3.11/-3.13	-5.37/-8.77	-11.81/-12.38	-10.19/-5.56	-4.85/-1.44	0.81/-30	0.070/88	-0.02/-0.90	0.010/49	-0.15/-2.07	-0.15/-4.50	-5.09/-3.71	-2.28/-1.15	-0.63/-5.72	-10.38/-3.33	-9.60/-1.67	-7.91/-11.88	-4.73/-1.95	-2.93/-1.66	-1.91/-5.83	-5.16/-2.39
Θ (142.5°)	-9.11/-8.76	-9.82/-7.06	-7.55/-6.10	-5.07/-3.96	-3.53/-3.34	-4.11/-5.37	-5.59/-6.21	-2.63/-1.78	0.670/68	-0.03/-30	1.09/-1.67	-4.11/-3.50	-0.83/-4.24	-0.70/-1.54	-2.60/-6.27	-15.54/-10.24	-4.49/-6.29	-9.69/-9.56	-9.36/-3.96	0.07/-31	-0.19/-4.29	-9.18/-8.97	-8.04/-7.36	
Θ (150°)	-6.17/-5.63	-7.92/-11.76	-14.15/-11.32	-9.76/-8.73	-4.84/-6.95	-4.83/-2.84	-2.75/-1.54	-0.10/-0.59	-2.88/-2.28	-1.92/-1.77	-0.870/07	0.79/-0.42	-1.38/-2.88	-4.31/-4.23	-4.88/-4.38	-5.89/-9.65	-11.24/-7.79	-3.96/-5.55	-6.78/-7.01	-9.07/-6.92	-5.05/-2.62	-1.17/-0.93	-2.32/-6.69	-11.52/-7.70
Θ (157.5°)	-8.61/-7.55	-6.15/-5.45	-5.38/-5.23	-4.50/-4.67	-4.18/-3.95	-4.20/-4.75	-4.87/-4.58	-4.93/-5.75	-3.74/-1.42	-0.86/-1.33	-1.77/-0.47	0.21/-1.03	-2.20/-4.77	-11.04/-13.80	-10.94/-10.32	-11.77/-14.07	-9.98/-6.43	-4.34/-4.02	-4.46/-5.05	-4.92/-5.73	-7.05/-11.01	-8.43/-4.14	-2.58/-3.77	-6.97/-11.12
Θ (165°)	-4.15/-3.61	-2.51/-1.04	-1.22/-1.65	-1.87/-1.78	-1.90/-2.07	-2.41/-2.22	-2.68/-2.33	-1.26/-0.36	-0.41/-0.98	-1.14/-1.07	-1.12/-0.98	-1.63/-2.34	-2.87/-4.61	-7.43/-13.58	-15.54/-9.56	-6.94/-5.29	-3.58/-2.81	-2.53/-3.20	-3.82/-5.34	-5.41/-6.47	-9.71/-11.38	-12.19/-11.17	-9.45/-7.85	-6.16/-4.87
Θ (172.5°)	-6.58/-6.23	-4.76/-3.95	-2.86/-2.23	-1.90/-1.85	-1.24/-0.97	-0.98/-0.98	-1.07/-1.09	-0.72/-0.17	0.250/27	-0.53/-2.33	-4.83/-6.98	-6.96/-5.96	-5.50/-6.55	-8.34/-11.98	-15.16/-12.39	-10.31/-10.17	-8.92/-7.30	-6.54/-7.04	-6.58/-6.64	-8.36/-8.37	-8.69/-9.94	-10.77/-10.02	-8.50/-8.13	-7.96/-7.48
Θ (180°)	-4.39/-5.00	-5.50/-5.05	-4.52/-4.08	-4.25/-3.81	-3.50/-2.67	-2.76/-2.09	-1.49/-1.08	-1.07/-1.66	-2.63/-4.65	-6.26/-7.10	-6.21/-5.80	-5.01/-4.62	-4.98/-6.35	-7.62/-7.96	-8.41/-7.52	-6.51/-5.52	-4.42/-3.76	-3.82/-3.61	-3.49/-3.85	-4.83/-5.68	-6.87/-6.58	-6.29/-6.11	-4.94/-4.59	-5.13/-4.74
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	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°)	-5.25/-5.28	-4.70/-3.86	-4.26/-3.65	-3.03/-2.66	-2.70/-2.44	-2.36/-2.30	-1.77/-2.20	-2.70/-2.87	-2.93/-2.88	-2.65/-2.80	-3.21/-3.63	-3.70/-4.04	-4.49/-4.82	-4.79/-4.70	-4.23/-3.54	-3.81/-3.67	-3.01/-2.79	-3.11/-3.31	-3.34/-3.29	-3.17/-3.30	-3.04/-3.48	-4.23/-4.50	-4.00/-4.19	-4.54/-4.94
Θ (7.5°)	-4.59/-4.39	-4.67/-3.49	-3.54/-3.29	-3.01/-3.04	-2.67/-2.21	-2.37/-2.34	-2.24/-2.30	-2.59/-2.85	-3.01/-3.18	-3.83/-4.05	-4.30/-4.41	-4.20/-4.18	-4.14/-3.70	-3.12/-3.09	-2.69/-2.21	-2.92/-3.27	-2.81/-2.42	-2.33/-2.61	-1.91/-2.31	-2.45/-2.32	-2.76/-3.18	-3.10/-3.71	-4.01/-3.93	-4.70/-4.47
Θ (15°)	-1.90/-2.17	-2.26/-1.93	-1.32/-1.15	-1.24/-1.78	-1.95/-3.26	-1.85/-1.60	-1.57/-0.96	-0.70/-1.35	-2.27/-2.78	-3.45/-3.85	-4.17/-4.88	-4.72/-5.08	-5.23/-5.35	-6.09/-6.89	-7.37/-7.08	-8.37/-10.04	-12.61/-10.16	-9.28/-12.32	-9.32/-7.17	-6.76/-5.19	-4.14/-4.42	-4.90/-4.56	-5.52/-4.67	-3.82/-2.68
Θ (22.5°)	-2.02/-2.22	-2.77/-2.59	-1.49/-1.23	-1.84/-0.94	-0.34/-1.27	-2.36/-1.78	-2.27/-2.88	-1.86/-1.23	-2.82/-4.27	-5.59/-5.79	-5.96/-8.55	-10.17/-11.64	-11.93/-11.80	-11.98/-14.41	-12.77/-10.58	-9.94/-10.81	-9.14/-6.49	-9.01/-6.36	-6.14/-6.97	-5.67/-5.65	-4.61/-6.97	-5.67/-5.65	-4.26/-2.16	
Θ (30°)	-3.82/-4.17	-2.95/-1.64	-0.800/-18	0.460/-36	-0.55/-0.79	-1.21/-2.19	-2.02/-1.52	-3.09/-3.46	-2.80/-3.53	-4.22/-4.57	-5.62/-6.68	-6.37/-7.16	-7.71/-8.45	-7.87/-9.14	-10.43/-9.92	-10.46/-11.54	-12.76/-13.16	-13.46/-10.65	-8.94/-9.95	-10.23/-11.89	-9.00/-4.47	-3.24/-4.05	-5.03/-5.43	-2.46/-2.17
Θ (37.5°)	-3.30/-3.42	-2.64/-2.35	-0.78/-1.19	-1.15/-1.25	-1.60/-1.77	-1.72/-1.71	-4.18/-3.50	-3.58/-3.86	-3.95/-3.29	-3.49/-4.14	-3.98/-3.14	-4.24/-3.57	-9.10/-10.04	-12.90/-12.76	-10.76/-9.54	-10.17/-13.90	-10.00/-9.78	-10.36/-13.52	-11.55/-14.90	-10.03/-9.34	-9.51/-9.29	-5.83/-4.97	-6.22/-4.55	-2.24/-2.98
Θ (45°)	-2.10/-2.40	-4.14/-2.66	-0.47/-1.44	0.22/-0.32	-0.74/-1.44	-2.93/-3.55	-4.34/-3.78	-3.44/-3.33	-3.17/-4.66	-3.40/-2.56	-1.42/-1.80	-5.25/-6.67	-1.70/-6.90	-8.21/-7.48	-10.77/-8.04	-8.64/-9.19	-14.31/-14.37	-11.42/-14.49	-8.23/-7.41	-7.12/-7.75	-7.04/-5.90	-6.17/-4.21	-3.04/-1.53	
Θ (52.5°)	-1.06/-2.48	-1.91/-2.55	-2.27/-0.52	-0.79/-2.12	-2.72/-3.57	-3.34/-3.54	-4.13/-4.53	-4.57/-4.81	-4.18/-1.59	-0.92/-1.42	-2.35/-2.25	-5.16/-6.30	-5.63/-11.12	-11.21/-9.26	-9.02/-12.56	-6.21/-4.23	-6.12/-9.19	-7.41/-11.41	-8.49/-5.33	-4.55/-4.80	-6.55/-3.51	-5.23/-4.55	-4.88/-2.64	-4.35/-1.71
Θ (60°)	0.30/-2.29	-3.26/-3.61	-1.36/-0.89	-1.75/-1.57	-1.09/-1.54	-1.91/-2.72	-3.78/-4.79	-6.36/-5.05	-2.91/-1.58	-1.47/-1.21	-1.73/-2.42	-4.44/-3.68	-4.60/-7.36	-8.09/-5.72	-12.61/-6.49	-5.36/-2.94	-5.00/-8.81	-9.00/-15.40	-14.04/-4.17	-2.45/-6.22	-2.04/-4.13	-3.91/-3.49	-4.78/-2.47	-4.67/-0.64
Θ (67.5°)	-1.75/-0.63	-2.93/-3.28	-0.39/-1.27	-2.01/-1.77	-1.53/-2.14	-5.52/-8.39	-7.90/-7.81	-4.55/-3.14	-2.77/-3.64	-3.97/-4.05	-4.37/-4.75	-4.34/-4.45	-8.31/-13.32	-4.39/-5.48	-3.79/-1.08	-2.50/-1.91	-1.71/-3.62	-4.50/-4.88	-2.41/-2.42	-2.21/-8.4	-4.50/-2.50	-2.61/-1.07		
Θ (75°)	-0.11/-0.26	-3.45/-1.51	-1.43/-																					



Antenna Pattern (6GHz UNII5~UNII8)

Appendix D

Θ(52.5°)	-3.44/-1.01	-0.84/-1.14	0.02/-0.30	-2.22/-2.89	-3.93/-5.90	-7.73/-4.81	-2.71/-1.74	-1.25/-1.01	-1.03/-2.44	-3.02/-5.74	-5.10/-2.23	-1.39/-2.67	-4.50/-5.36	-2.93/-3.20	-4.37/-2.46	-3.47/-3.48	-3.12/-4.82	-5.68/-2.34	-3.15/-4.82	-3.81/-4.01	-2.40/-5.18	-5.39/-7.25	-8.47/-4.09	-3.49/-5.78
Θ(60°)	-4.44/-1.47	-1.68/-0.50	0.72/-0.19	-1.33/-1.63	-3.02/-4.69	-6.68/-6.45	-4.11/-2.58	-1.54/-0.76	-0.83/-1.82	-2.86/-2.59	-3.49/-2.66	-1.52/-2.28	-4.79/-4.87	-2.00/-2.97	-4.19/-1.15	-1.68/-2.74	-3.35/-5.53	-4.95/-4.08	-4.76/-5.13	-5.80/-4.15	-1.86/-1.82	-6.16/-9.23	-7.24/-5.59	-3.09/-6.83
Θ(67.5°)	-5.97/-3.48	-4.02/-0.80	0.18/-0.22	-0.18/-0.22	-3.34/-4.27	-6.39/-6.53	-3.60/-3.02	-2.02/-1.34	-0.91/-1.17	-3.04/-3.83	-3.89/-3.91	-0.59/-1.42	-4.43/-3.51	-1.24/-2.44	-3.79/-1.69	-3.80/-1.94	-4.59/-5.26	-4.31/-3.96	-4.59/-7.20	-7.75/-4.50	-5.70/-15.00	-9.81/-5.17	-4.09/-6.64	
Θ(75°)	-4.67/-6.00	-5.20/-2.65	-1.60/-0.04	0.88/-1.32	-2.08/-4.33	-5.05/-6.37	-4.18/-4.32	-3.12/-1.00	-0.43/-2.23	-3.07/-4.00	-3.12/-2.08	-0.92/-1.24	-4.04/-2.36	-1.06/-1.50	-2.62/-4.74	-5.75/-3.93	-2.73/-3.63	-3.21/-4.20	-2.49/-2.02	-2.01/-2.00	0.82/-0.79	-5.82/-8.54	-7.64/-6.35	-6.82/-5.21
Θ(82.5°)	-3.95/-4.82	-2.91/-3.91	-2.31/-2.01	-1.66/-1.86	-2.40/-3.16	-6.65/-9.98	-5.03/-4.03	-3.69/-0.57	0.47/-0.66	-3.63/-5.36	-3.09/-0.86	-0.57/-0.28	-3.46/-0.98	-0.09/-3.12	-1.63/-2.87	-5.87/-1.47	-2.47/-1.76	-1.73/-1.15	-1.16/-1.81	-1.04/-3.79	-0.55/-2.65	-3.07/-7.84	-6.70/-6.71	-3.92/-3.63
Θ(90°)	-1.87/-1.83	-2.67/-4.95	-1.82/-2.87	-1.96/-1.99	-4.83/-6.86	-9.78/-8.75	-7.21/-5.23	-4.70/-1.18	-0.34/-0.36	-1.80/-3.92	-2.72/-2.05	-1.09/-1.20	-0.86/-2.13	-0.49/-3.96	-3.16/-5.26	-3.79/-5.50	-2.78/-2.04	-2.44/-2.32	-0.32/-3.81	-0.66/-4.67	-5.69/-1.26	-6.41/-4.41	-6.33/-3.33	-3.72/-3.12
Θ(97.5°)	-2.51/-0.98	-2.49/-2.13	-1.75/-3.27	-2.11/-4.65	-8.66/-10.39	-8.73/-11.00	-7.59/-5.45	-5.71/-1.97	-1.73/-0.50	-1.80/-4.91	-0.86/-1.04	-0.70/-1.60	-0.03/-1.53	-0.44/-3.05	-2.42/-5.39	-3.97/-3.73	-6.59/-4.15	-3.49/-0.99	-1.56/-2.28	0.30/-0.98	-4.56/-1.69	-7.81/-3.65	-5.83/-2.31	-3.33/-2.87
Θ(105°)	-2.23/-0.12	-3.35/-0.07	-0.22/-2.20	-0.45/-1.61	-7.42/-12.41	-9.62/-11.16	-9.78/-8.15	-6.66/-2.38	-0.28/-0.10	-1.39/-2.04	-1.35/-0.55	0.37/-3.33	-0.89/-0.40	-1.08/-2.51	-4.00/-3.17	-3.78/-4.36	-8.71/-5.95	-8.35/-2.64	-3.77/-9.70	-0.27/-0.19	-5.61/-6.13	-9.61/-6.46	-3.81/-1.23	-4.02/-2.70
Θ(112.5°)	-2.53/-2.35	-1.69/-1.29	-0.57/-0.30	0.91/-0.46	-6.35/-5.96	-11.31/-10.89	-9.24/-8.22	-5.07/-2.97	-0.55/-0.37	-0.97/-1.61	-1.51/-0.09	0.95/-0.65	-1.78/-1.67	-1.45/-1.65	-0.67/-0.36	-0.84/-5.47	-11.12/-4.93	-6.16/-5.21	-7.02/-2.12	-3.03/-1.56	-8.47/-7.13	-10.24/-7.25	-4.13/-5.15	-6.39/-4.45
Θ(120°)	-3.77/-2.98	-0.56/-0.51	0.52/-2.36	1.96/-0.39	-1.44/-2.61	-5.21/-9.01	-8.33/-6.32	-5.02/-2.64	-1.30/-0.01	0.00/-0.52	-0.130/2.7	0.34/-1.34	-3.08/-0.36	0.93/-0.19	-2.24/-2.71	-3.39/-5.65	-4.65/-5.10	-2.62/-10.91	-3.97/-4.09	-3.52/-9.32	-4.45/-9.82	-10.63/-5.02	-8.55/-9.53	-7.44/-5.35
Θ(127.5°)	-4.90/-3.45	-0.95/-0.16	2.20/3.17	2.57/0.34	-0.06/-0.89	-3.35/-6.44	-4.88/-2.77	-1.36/-0.51	1.08/0.70	0.52/1.85	1.38/-1.01	-1.03/0.45	-0.05/-1.17	-1.52/-3.70	-2.78/-6.61	-6.94/-6.08	-6.46/-15.32	-8.80/-7.59	-7.07/-5.83	-7.66/-9.36	-6.92/-8.36	-6.68/-9.19	-9.41/-8.63	-15.37/-6.63
Θ(135°)	-4.22/-2.52	-0.59/0.41	1.21/2.42	1.57/1.72	2.12/1.19	0.02/-1.83	-2.86/-2.07	-0.70/-0.16	0.46/1.27	1.40/1.35	0.39/-0.49	-0.37/0.87	-1.52/-1.06	-4.29/-3.41	-1.04/-3.28	-3.92/-3.21	-2.77/-2.71	-9.02/-4.32	-2.84/-5.43	-7.97/-6.31	-6.61/-6.29	-9.22/-10.32	-8.39/-8.16	
Θ(142.5°)	-1.42/0.14	1.11/1.17	0.96/1.02	0.20/1.45	2.43/1.31	-0.80/-2.39	-1.38/0.82	1.85/1.89	2.07/2.10	1.13/0.69	0.95/1.15	1.23/0.25	-1.14/-2.26	-2.38/-4.60	-2.43/0.20	1.95/1.32	-0.47/-2.54	-6.01/-10.74	-8.67/-6.99	-8.77/-9.85	-8.63/-7.01	-8.53/-11.99	-11.53/-7.10	-6.09/-7.48
Θ(150°)	-1.87/-2.52	-1.72/-0.24	0.67/1.81	0.60/0.68	1.19/2.22	2.28/2.02	1.42/0.80	0.58/1.04	0.91/0.48	0.62/1.16	0.73/0.76	1.70/1.11	-0.22/-3.70	-3.00/-1.39	0.12/-0.05	-0.27/-1.58	-4.67/-5.34	-8.19/-15.32	-11.25/-7.65	-11.23/-14.03	-10.20/-9.29	-7.10/-3.84	-5.59/-5.43	
Θ(157.5°)	0.36/-1.11	-2.06/-2.96	-1.71/0.96	0.84/0.31	-0.27/-0.61	-0.79/-1.50	-1.31/-0.62	0.53/1.70	1.46/1.09	1.51/1.86	2.13/2.36	1.59/0.15	-1.78/-3.66	-2.10/-2.66	-5.52/-10.56	-6.84/-8.15	-11.31/-11.53	-11.24/-15.32	-15.59/-13.69	-10.51/-9.42	-10.08/-11.64	-9.70/-9.59	-9.31/-8.00	-6.36/-1.14
Θ(165°)	-4.03/-4.44	-3.79/-2.95	-0.92/0.85	1.70/2.23	2.77/2.75	1.99/1.27	1.04/0.75	0.28/0.11	0.15/0.16	0.37/0.39	0.37/0.28	0.07/-0.82	-1.53/-3.01	-5.10/-8.07	-10.55/-12.22	-12.18/-7.63	-5.52/-5.03	-6.26/-6.77	-5.67/-5.82	-7.11/-6.78	-5.72/-6.05	-6.15/-7.14	-12.46/-9.99	-5.40/-3.86
Θ(172.5°)	-7.18/-5.65	-6.73/-5.92	-3.58/-1.84	-0.65/-0.29	-0.14/0.04	-0.25/-0.79	-1.15/-1.07	-1.56/-2.13	-2.28/-1.83	-1.25/-0.32	0.25/0.17	-0.62/-1.94	-4.37/-7.51	-8.99/-5.50	-8.68/-9.60	-11.96/-14.83	-14.93/-12.93	-13.96/-13.68	-13.41/-11.27	-10.33/-6.63	-7.17/-6.84	-6.88/-9.15	-10.63/-9.13	-8.66/-8.07
Θ(180°)	-5.23/-5.21	-5.49/-5.37	-4.55/-4.84	-4.65/-4.43	-4.27/-4.16	-3.62/-3.39	-3.26/-3.05	-3.04/-2.86	-2.72/-2.96	-3.30/-3.47	-4.60/-6.67	-7.69/-7.26	-5.61/-4.02	-3.51/-3.72	-3.89/-5.49	-7.04/-7.92	-7.41/-5.18	-3.57/-3.67	-4.27/-4.27	-3.97/-3.89	-4.43/-4.70	-5.00/-5.72	-5.70/-5.60	-5.50/-4.64
Freq(Hz)	6.475GPol.	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°)	-5.91/-5.88	-6.33/-6.44	-6.61/-6.57	-6.17/-5.81	-4.93/-4.43	-4.41/-4.47	-4.67/-3.68	-4.37/-3.62	-4.67/-4.04	-4.50/-5.42	-6.20/-6.49	-6.70/-7.04	-7.13/-7.02	-6.73/-6.30	-5.47/-5.01	-5.39/-5.59	-5.45/-5.89	-5.45/-5.89	-6.02/-6.13	-6.76/-6.41	-6.76/-6.41	-6.76/-6.41	-6.76/-6.41	-6.76/-6.41
Θ(7.5°)	-5.09/-4.98	-4.93/-5.24	-5.73/-5.62	-5.74/-6.01	-6.71/-6.44	-5.64/-4.52	-4.77/-5.53	-5.29/-5.14	-5.90/-5.43	-5.34/-5.50	-6.32/-6.61	-7.25/-8.33	-7.95/-7.39	-6.33/-5.61	-5.40/-5.19	-4.81/-4.39	-4.09/-3.78	-3.29/-3.19	-2.36/-1.93	-2.39/-3.01	-2.02/-1.97	-2.32/-2.96	-3.47/-3.78	-5.25/-5.27
Θ(15°)	-4.45/-4.21	-4.58/-4.58	-4.83/-4.72	-4.68/-4.31	-4.36/-3.74	-3.48/-3.31	-3.29/-3.99	-4.98/-4.89	-5.27/-4.92	-3.36/-2.77	-3.55/-4.45	-4.95/-5.58	-6.31/-5.99	-6.65/-6.78	-5.52/-4.93	-4.21/-3.90	-3.39/-2.88	-2.83/-4.42	-5.74/-4.41	-3.51/-5.00	-4.19/-2.59	-2.50/-2.32	-1.87/-1.99	-2.63/-3.38
Θ(22.5°)	-5.73/-5.50	-4.96/-3.76	-3.41/-3.22	-3.76/-4.19	-4.26/-4.57	-4.62/-4.61	-3.84/-3.34	-4.62/-4.88	-6.60/-5.64	-4.93/-4.56	-3.30/-3.31	-4.19/-4.84	-5.13/-4.39	-3.52/-4.25	-4.85/-6.43	-4.35/-4.77	-4.58/-4.05	-5.16/-6.70	-6.74/-5.62	-7.42/-6.99	-4.73/-5.52	-5.45/-3.89	-4.06/-5.07	
Θ(30°)	-4.78/-5.62	-5.43/-3.86	-3.76/-5.04	-5.07/-5.95	-6.58/-5.44	-5.15/-4.36	-4.00/-3.98	-3.36/-2.78	-2.46/-2.02	-1.72/-3.45	-7.87/-8.35	-5.66/-2.51	-2.03/-4.08	-6.85/-7.33	-4.78/-4.06	-3.70/-3.60	-5.10/-4.46	-7.17/-6.14	-4.78/-4.00	-4.14/-4.78	-4.95/-5.98	-4.84/-9.27	-7.32/-5.28	-6.06/-5.64
Θ(37.5°)	-5.24/-5.27	-5.78/-5.07	-4.23/-5.01	-5.54/-5.01	-3.23/-3.95	-4.64/-4.54	-4.32/-4.03	-4.21/-4.22	-3.69/-3.24	-3.61/-3.27	-4.26/-5.97	-5.41/-2.61	-2.85/-5.42	-7.43/-2.68	-1.71/-1.75	-4.51/-6.38	-7.58/-6.03	-5.75/-6.48	-4.58/-5.94	-6.24/-8.33	-9.32/-6.67	-6.22/-5.57	-6.36/-7.00	-6.96/-6.29
Θ(45°)	-2.75/-2.94	-4.08/-3.20	-2.88/-4.38	-4.28/-3.95	-4.97/-6.50	-6.06/-4.72	-3.80/-3.40	-2.95/-2.47	-3.08/-4.10	-3.24/-3.27	-3.31/-3.60	-4.26/-4.40	-6.09/-8.49	-9.44/-8.68	-5.37/-5.08	-7.62/-11.38	-6.29/-7.67	-10.52/-11.44	-12.74/-13.97	-6.45/-6.51	-4.92/-5.56	-9.41/-5.80		
Θ(52.5°)	-2.08/-1.18	-2.66/-2.20	-2.14/-3.25	-3.32/-4.19	-5.95/-6.51	-5.54/-4.15	-3.16/-2.65	-2.61/-2.61	-2.14/-1.91	-3.84/-3.48	-5.62/-6.29	-2.86/-2.28	-3.27/-3.68	-5.96/-5.83	-4.72/-5.89	-4.40/-3.30	-3.23/-3.15	-5.40/-5.82	-6.47/-3.92	-4.60/-6.19	-8.96/-11.37	-11.20/-8.32	-6.27/-4.45	-6.66/-5.73
Θ(60°)	-3.35/-1.94	-1.70/-0.19	-0.88/-1.84	-2.33/-3.55	-6.13/-7.51	-4.03/-3.58	-3.49/-4.25	-5.47/-5.16	-3.00/-2.82	-3.40/-4.64	-5.63/-5.16	-3.25/-2.69	-3.21/-4.39	-4.33/-4.45	-5.06/-6.70	-5.47/-3.43	-3.15/-6.28	-7.03/-5.15	-5.51/-7.00	-4.62/-3.30	-5.73/-6.49	-8.65/-10.59	-10.78/-4.04	-5.60/-7.22
Θ(67.5°)	-5.50/-3.70	-2.06/-0.81	-0.85/-1.28	-0.89/-3.99	-5.12/-4.75	-5.53/-5.33	-3.89/-5.15	-5.44/-3.64	-3.64/-4.10	-5.04/-6.29	-6.36/-4.90	-2.70/-1.69	-3.03/-4.86	-4.04/-4.13	-3.85/-3.34	-6.45/-5.34	-6.23/-7.26	-6.53/-4.87	-5.59/-9.39	-6.93/-6.25	-3.42/-4.01	-7.13/-14.53	-8.97/-5.72	-5.64/-9.44
Θ(75°)	-6.29/-6.24	-4.29/-0.85	-1.44/-1.48	-1.68/-4.31	-4.72/-6.50	-9.94/-5.45	-3.82/-2.57	-4.02/-3.92	-2.75/-2.37	-2.69/-6.31	-6.71/-2.89	-2.03/-2.60	-2.24/-3.19	-2.80/-3.31	-3.84/-4.43	-6.42/-5.75	-8.41/-4.41	-2.16/-3.44	-2.78/-5.03	-4.76/-3.67	-0.12/-2.18	-6.14/-8.53	-8.04/-6.20	-6.61/-7.07
Θ(82.5°)	-4.60/-4.40	-4.26/-2.50	-2.20/-1.86	-3.22/-2.37	-5.81/-14.06	-9.89/-4.69	-5.97/-5.55	-4.66/-6.17	-4.21/-3.50	-2.75/-4.39	-4.34/-3.06	-2.02/-1.03	-1.07/-4.34	-1.82/-2.79	-3.16/-6.87	-8.91/-6.10	-5.11/-2.04	-0.26/-3.52	-3.25/-2.69	-2.14/-7.75	-5.39/-3.61	-8.99/-6.53	-6.57/-5.51	-5.99/-4.75
Θ(90°)	-3.86/-3.86	-4.31/-2.14	-3.94/-2.17	-2.96/-3.50	-7.58/-11.06	-7.71/-5.13	-5.22/-7.01	-6.44/-4.76	-4.71/-4.80	-5.82/-3.94	-2.88/-1.78	-0.25/-0.61	-0.23/-2.25	-2.75/-2.09	-3.90/-5.29	-6.05/-4.59	-3.75/-4.90	-5.13/-3.63	-2.31/-3.82	-2.21/-9.75	-8.52/-2.17	-5.98/-4.78	-4.73/-4.09	-8.05/-4.05
Θ(97.5°)	-2.28/-2.56	-2.37/-1.85	-2.66/-1.66	-2.62/-3.40	-7.43/-7.04	-10.54/-4.46	-5.80/-9.01	-9.53/-7.18	-3.05/-4.31	-6.35/-4.24	-1.81/-1.01	-0.08/-1.58	-1.73/-1.42	-2.01/-1.98	-3.29/-2.50	-7.71/-3.11	-5.14/-4.80	-7.22/-2.66	-1.35/-4.78	-1.35/-3.09	-4.34/-1.56	-7.67/-4.43	-4.67/-6.98	-7.21/-2.69
Θ(105°)	-2.77/-3.63	-2.15/-1.42	-0.94/0.39	-1.29/-4.87	-8.03/-6.24	-11.65/-7.16	-8.89/-8.60	-6.44/-6.66	-2.67/-1.74	-2.39/-3.67	-1.76/-6.06	-0.12/-0.09	-2.53/-1.82	-2.98/-3.47	-4.36/-4.24	-4.13/-1.69	-7.55/-7.76	-14.72/-8.24	-6.43/-11.61	-0.51/-0.49	-10.54/-7.36	-9.59/-5.71	-5.74/-5.23	-5.38/-2.94
Θ(112.5°)	-4.69/-3.14																							



Antenna Pattern (6GHz UNII5~UNII8)

Appendix D

Θ(97.5°)	-4.17/-2.69	-5.84/-10.78	-9.78/-10.27	-9.52/-15.65	-10.15/-12.71	-12.05/-8.81	-10.37/-6.09	-3.78/-6.50	-4.22/-3.70	-1.64/-0.72	0.620/72	0.941/03	1.960/12	1.652/28	0.38/-1.19	-2.76/-1.64	-0.33/-1.13	-5.02/-8.70	-10.98/-13.00	-6.90/-12.92	-5.35/-1.88	-0.68/-3.53	-3.13/-2.75	-2.38/-0.49
Θ(105°)	-5.64/-4.25	-8.03/-8.42	-13.01/-5.94	-8.10/-11.48	-4.23/-3.19	-2.85/-2.73	-3.96/-7.00	-8.33/-13.17	-8.35/-4.46	-1.56/-0.82	-0.000/-75	0.990/82	2.45/-1.37	1.91/-1.04	0.26/-1.33	-2.85/-1.46	-1.61/-2.03	-4.81/-8.26	-9.44/-5.89	-4.96/-15.11	-6.25/-2.23	-3.07/-4.71	-5.50/-8.25	-5.67/-4.50
Θ(112.5°)	-4.34/-3.77	-2.13/-3.70	-11.18/-1.89	-3.58/-14.01	-5.12/-1.32	-3.20/-0.98	-0.78/-2.61	-7.17/-1.432	-4.30/-3.86	-3.52/-1.26	-0.52/-0.10	0.671/33	1.24/-1.25	1.35/0.88	1.73/-1.18	-3.47/-0.11	0.64/-0.84	-4.86/-9.14	-7.52/-2.53	-3.71/-13.00	-7.57/-10.68	-7.47/-15.71	-7.61/-6.45	-5.50/-5.72
Θ(120°)	-4.15/-4.07	-4.25/-2.92	-8.82/-5.48	-1.67/-5.87	-9.54/-6.42	-1.83/-1.49	-0.04/-1.31	-2.30/-2.86	-1.71/-3.29	-2.70/-2.66	-2.93/-1.59	-1.14/-0.38	-1.42/-1.13	-1.90/-0.80	0.38/-0.02	-0.71/0.43	2.27/0.45	-0.39/-7.85	-9.25/-3.76	-5.92/-13.33	-7.49/-11.30	-9.15/-11.82	-10.52/-6.83	-9.71/-4.77
Θ(127.5°)	-7.94/-8.53	-4.56/-6.66	-8.78/-8.64	-2.14/0.29	-4.31/-11.17	-5.89/-4.60	-4.31/-1.06	-1.18/-2.68	-1.66/0.55	0.13/-0.58	-0.54/-1.95	-1.31/-2.17	-2.94/-5.39	-3.36/0.87	1.52/-1.88	-2.96/-0.58	-0.45/-0.67	-5.81/-4.57	-6.93/-2.75	-6.24/-8.31	-3.52/-4.15	-3.28/-13.61	-9.03/-13.90	-11.65/-10.26
Θ(135°)	-5.34/-6.12	-4.21/-5.16	-9.98/-9.48	-6.30/-2.21	-1.28/-4.44	-4.26/-5.54	-7.25/-7.28	-3.62/-1.82	0.14/0.15	0.27/0.81	-0.69/-1.29	-1.32/-1.34	0.48/0.59	0.55/0.07	-1.46/-4.69	-6.08/-2.53	-2.13/-2.60	-1.86/-5.36	-10.41/-3.05	-2.74/-3.54	-3.18/-5.05	-3.49/-7.75	-8.84/-3.86	-7.89/-7.68
Θ(142.5°)	-1.48/0.50	0.94/-0.87	-3.52/-6.45	-6.13/-7.37	-9.88/-10.16	-7.17/-4.99	-8.00/-10.31	-4.05/-1.91	-1.99/-2.39	-1.96/-1.64	-1.29/-1.61	-3.60/-4.60	-4.17/-3.34	-1.52/-1.82	-6.18/-10.66	-11.54/-12.99	-4.12/-6.74	-4.61/-10.95	-6.92/-6.14	-1.13/-3.73	-5.03/-9.96	-5.95/-6.74	-5.47/-6.34	-6.55/-1.97
Θ(150°)	-0.71/-1.74	0.09/0.28	-0.47/-1.51	-3.50/-6.27	-13.05/-15.56	-11.79/-8.79	-6.78/-7.55	-11.45/-10.39	-7.11/-5.47	-3.60/-3.43	-3.65/-5.02	-6.80/-7.64	-8.26/-6.62	-3.26/-0.93	-1.39/-3.70	-5.29/-7.46	-8.15/-6.89	-7.20/-9.38	-6.19/-3.03	-2.93/-5.10	-7.06/-10.20	-15.77/-6.72	-4.26/-4.09	-2.60/-4.02
Θ(157.5°)	-2.52/-3.00	-1.99/-0.50	-1.86/-5.11	-7.62/-9.48	-10.22/-10.67	-13.37/-13.06	-10.42/-9.86	-7.38/-4.66	-2.63/-2.87	-4.43/-6.09	-6.56/-5.70	-4.69/-4.83	-4.57/-4.99	-6.37/-6.58	-4.60/-2.40	-2.70/-4.07	-4.32/-4.63	-5.39/-5.28	-3.92/-2.95	-2.49/-2.94	-3.91/-6.09	-9.84/-10.43	-9.65/-6.86	-4.02/-3.38
Θ(165°)	-8.44/-8.01	-9.51/-9.56	-8.48/-9.73	-10.02/-8.81	-7.90/-8.14	-9.75/-11.58	-11.88/-9.93	-9.46/-8.98	-7.63/-5.83	-4.93/-4.65	-4.13/-3.34	-2.89/-2.22	-2.04/-2.03	-1.48/-1.67	-2.16/-3.36	-3.30/-1.98	-1.23/-1.59	-2.88/-5.87	-8.02/-8.48	-7.36/-4.99	-2.52/-1.31	-1.79/-3.39	-6.31/-8.63	-8.25/-8.04
Θ(172.5°)	-15.37/-14.13	-16.18/-14.16	-12.36/-12.53	-13.18/-12.02	-11.65/-12.16	-13.77/-14.98	-14.70/-11.29	-9.55/-7.79	-6.23/-4.90	-4.40/-4.22	-4.26/-4.22	-4.34/-4.64	-4.76/-4.92	-5.59/-6.71	-7.70/-8.30	-7.77/-6.53	-5.52/-5.90	-6.52/-5.93	-5.94/-6.30	-6.40/-6.78	-6.23/-6.43	-9.18/-12.15	-15.41/-15.38	-15.25/-15.88
Θ(180°)	-9.13/-9.02	-9.48/-10.84	-9.37/-12.15	-15.19/-16.11	-15.36/-15.88	-14.38/-13.64	-13.12/-12.88	-11.67/-11.13	-9.89/-10.48	-11.23/-10.21	-9.42/-10.45	-11.77/-12.49	-11.97/-9.90	-9.54/-9.07	-9.04/-8.94	-8.46/-7.94	-8.90/-9.49	-9.38/-8.37	-8.29/-9.82	-11.50/-11.34	-11.00/-11.91	-12.39/-10.10	-9.11/-8.12	-7.09/-6.59
Freq(Hz)	6.475GPol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	0.510/80	0.931/13	1.411/09	0.700/31	-0.13/-0.01	-0.06/0.03	-0.20/-0.44	-0.24/-0.27	-0.16/0.00	0.12/-0.04	0.16/0.21	0.24/0.55	0.44/0.21	0.42/0.67	0.82/0.53	0.42/0.26	-0.10/-0.21	0.01/-0.09	0.09/-0.18	0.01/0.21	0.22/0.40	0.14/-0.00	-0.07/0.63	-0.07/0.63
Θ(7.5°)	-0.13/-0.27	-0.36/-0.08	-0.15/-0.19	-0.42/-0.66	-0.63/-0.68	-0.75/-0.53	-0.71/-0.84	-0.69/-0.30	-0.22/0.17	0.46/0.45	0.82/0.92	0.91/0.98	0.78/0.66	0.50/0.86	0.68/0.34	-0.11/-0.03	-0.33/-0.57	-0.53/-0.58	-0.24/-0.30	-0.29/-0.02	0.27/0.34	-0.03/0.04	-0.38/-0.74	-0.28/0.01
Θ(15°)	0.20/-0.79	-0.74/-0.88	-1.02/-2.43	-0.57/-0.92	-0.88/-0.72	-0.85/-1.20	-1.53/-1.45	-1.26/-1.15	-0.91/-0.11	0.74/-1.43	1.77/-1.68	1.78/-1.69	1.24/0.66	0.25/0.60	0.75/0.49	0.25/-0.21	-0.80/-1.11	-1.10/-1.18	-1.58/-1.50	-1.31/-0.86	-0.58/-0.24	0.08/0.35	0.04/0.22	0.01/0.36
Θ(22.5°)	-2.00/-1.54	-0.98/-1.39	-1.57/-1.40	-0.65/-0.52	-0.98/-1.02	-1.08/-0.53	-0.77/-1.35	-0.22/0.36	-0.08/0.36	0.77/-1.35	1.68/-1.23	2.52/-2.35	1.67/-1.28	1.29/-1.89	1.97/-1.63	1.10/0.62	-0.59/-1.09	-0.92/-1.31	-2.30/-3.70	-3.02/-1.73	-1.20/-1.45	-1.29/-1.68	-2.38/-2.79	-2.66/-2.63
Θ(30°)	-2.42/-4.23	-3.65/-3.40	-1.96/-1.25	-1.21/-1.48	-1.22/-0.75	-0.78/-1.16	-1.63/-1.71	-1.23/-0.72	-0.53/-0.44	0.07/0.49	0.87/-1.42	1.92/-2.06	1.87/-1.47	1.29/-1.42	1.48/-1.22	0.64/-0.47	-1.50/-2.22	-2.59/-2.75	-2.44/-2.94	-3.35/-4.14	-5.39/-6.61	-7.05/-7.31	-5.47/-3.66	-2.72/-2.21
Θ(37.5°)	-5.03/-5.49	-4.55/-3.93	-3.64/-3.93	-4.38/-4.18	-3.73/-3.88	-4.56/-3.88	-3.86/-3.89	-3.36/-1.91	-1.29/-0.46	0.01/0.03	0.18/0.80	1.72/-2.37	2.28/-1.62	1.23/-1.85	2.00/-1.96	1.70/0.99	-0.67/-1.64	-2.11/-3.12	-3.84/-3.79	-3.77/-5.85	-7.70/-6.45	-4.69/-4.09	-3.11/-3.21	-3.22/-5.88
Θ(45°)	-3.47/-3.59	-3.91/-4.63	-4.26/-4.44	-3.47/-3.46	-4.07/-4.23	-3.80/-3.59	-4.02/-4.42	-4.57/-4.03	-2.55/-1.82	-0.68/0.05	-0.82/-0.51	1.40/-2.46	6.34/-1.21	0.69/-1.32	1.68/-1.93	1.51/0.19	-1.31/-2.98	-3.32/-2.15	-3.09/-4.48	-5.52/-4.65	-3.89/-3.74	-3.72/-3.85	-2.88/-2.48	-3.06/-3.29
Θ(52.5°)	-7.09/-6.67	-6.45/-8.34	-6.47/-6.07	-5.90/-5.57	-4.85/-4.83	-4.84/-4.10	-4.21/-3.58	-4.16/-4.09	-3.24/-2.31	-0.75/0.89	0.55/-0.09	1.03/-2.16	2.95/-2.48	2.40/-2.88	2.90/-2.18	0.15/-0.92	-2.04/-2.46	-2.49/-3.52	-4.47/-5.70	-6.39/-5.82	-5.62/-3.60	-3.45/-3.36	-2.82/-2.89	-3.38/-4.31
Θ(60°)	-4.62/-5.47	-9.15/-7.48	-7.32/-7.24	-7.22/-5.76	-6.36/-4.96	-5.84/-7.74	-5.95/-5.36	-5.18/-4.01	-3.49/-4.68	-1.78/0.09	1.35/0.75	0.51/-1.42	1.84/-1.50	0.79/-1.12	1.89/-1.62	1.36/-0.31	-4.06/-4.41	-4.67/-6.16	-7.56/-7.88	-6.14/-5.78	-5.67/-6.00	-7.30/-5.10	-4.43/-6.43	-4.43/-6.43
Θ(67.5°)	-4.04/-4.81	-3.17/-5.44	-9.25/-9.81	-7.40/-8.51	-9.01/-9.02	-7.98/-8.65	-9.08/-7.27	-6.19/-4.46	-3.00/-1.14	0.57/-1.76	0.94/0.44	1.35/0.89	0.02/0.46	1.02/-1.90	-0.27/-0.72	-1.59/-2.03	-4.51/-4.65	-5.11/-9.06	-10.75/-9.33	-7.62/-8.56	-8.97/-10.25	-5.94/-4.10	-8.88/-2.66	-8.88/-2.66
Θ(75°)	-7.40/-4.85	-7.34/-13.24	-9.49/-8.13	-8.74/-10.84	-15.94/-12.36	-13.17/-15.77	-13.70/-10.72	-7.95/-11.00	-8.01/-5.91	-3.81/-3.51	-1.69/0.77	1.73/0.73	0.97/-1.38	1.00/-0.95	1.06/0.97	0.36/-1.43	-1.41/-0.41	-3.19/-4.43	-6.40/-13.41	-12.17/-9.05	-9.93/-12.01	-7.37/-10.68	-6.50/-6.73	-4.52/-5.14
Θ(82.5°)	-5.38/-6.06	-12.77/-7.55	-4.21/-6.16	-15.34/-14.91	-13.73/-9.49	-8.67/-7.04	-6.12/-6.27	-3.60/-8.14	-6.92/-5.11	-3.51/-3.07	-1.88/-0.44	0.78/0.27	-0.43/-1.16	-0.48/0.83	1.53/-1.04	0.22/-0.06	-0.07/0.76	0.15/-2.76	-7.61/-11.13	-8.53/-10.74	-10.69/-11.20	-7.22/-5.86	-5.14/-4.32	-2.06/-4.57
Θ(90°)	-4.07/-9.67	-5.43/-5.71	-6.90/-12.48	-12.42/-12.54	-13.81/-9.37	-8.88/-8.79	-7.77/-4.82	-3.31/-2.90	-7.59/-6.05	-2.90/-1.59	-1.11/-0.91	-0.21/0.63	0.32/-0.31	-1.79/-5.51	0.83/-0.06	0.13/-0.65	0.26/-1.81	0.83/-4.24	-10.57/-7.93	-8.87/-10.10	-13.70/-8.30	-7.25/-2.49	-3.41/-1.93	-4.69/-2.42
Θ(97.5°)	-4.85/-5.15	-3.89/-10.32	-10.74/-11.80	-9.16/-12.59	-13.95/-11.15	-9.91/-10.55	-10.62/-5.00	-4.56/-3.74	-8.70/-5.53	-1.56/-0.06	0.04/0.17	0.73/0.76	1.05/-0.25	-0.22/-1.23	-0.12/-0.49	-1.08/-0.61	-1.72/-1.93	-2.20/-6.97	-14.89/-7.78	-9.95/-9.61	-13.08/-5.43	-4.02/-3.86	-4.34/-4.67	-7.77/-2.29
Θ(105°)	-6.69/-3.88	-6.94/-12.40	-10.97/-7.97	-6.67/-11.80	-7.58/-5.65	-3.92/-5.66	-6.12/-6.54	-5.89/-6.06	-8.22/-6.73	-3.04/-1.13	0.09/0.08	1.59/0.05	0.07/-1.34	-0.85/0.17	-0.72/-0.07	-1.70/-3.90	-1.71/-3.20	-6.54/-12.92	-10.86/-8.82	-5.35/-9.19	-11.00/-5.70	-6.36/-6.05	-9.11/-9.41	-9.26/-4.32
Θ(112.5°)	-5.89/-5.65	-5.72/-5.04	-12.23/-5.42	-5.32/-10.55	-5.92/-3.05	-3.53/-1.69	-2.44/-4.00	-5.26/-10.73	-10.08/-4.95	-2.46/-0.71	-0.15/-0.58	1.39/0.81	-0.02/-1.31	-0.45/0.44	0.48/-1.28	-4.56/-4.22	-0.42/-0.50	-3.97/-8.90	-10.02/-3.16	-4.31/-11.78	-14.71/-9.75	-8.30/-9.65	-14.91/-11.64	-7.47/-5.99
Θ(120°)	-7.29/-8.23	-4.72/-3.42	-9.83/-8.88	-4.17/-6.27	-11.27/-5.63	-3.37/-3.96	-2.23/-3.26	-4.65/-4.71	-2.00/-3.69	-4.84/-1.19	-1.45/-1.57	0.07/1.53	-0.07/-1.26	-1.63/-1.72	0.38/-2.20	-5.75/0.03	0.65/0.47	-1.21/-1.92	-8.09/-3.07	-5.62/-12.49	-9.82/-12.56	-12.61/-14.89	-15.82/-10.58	-15.75/-10.22
Θ(127.5°)	-14.63/-9.11	-5.85/-8.40	-13.56/-15.50	-5.52/-1.72	-6.83/-10.43	-7.36/-8.07	-6.80/-3.23	-2.55/-1.97	-0.71/-0.35	-0.15/-0.77	0.17/-1.68	-2.27/-0.56	-2.06/-2.73	-7.62/-1.45	1.51/-2.19	-5.96/-4.23	-0.93/-3.34	-5.56/-10.98	-11.84/-3.57	-6.20/-10.98	-4.73/-5.42	-4.87/-10.74	-13.74/-15.36	-11.40/-15.01
Θ(135°)	-7.99/-8.60	-7.94/-8.71	-14.32/-14.65	-6.80/-3.70	-3.40/-6.81	-7.16/-9.49	-9.12/-3.80	-2.04/-2.79	-0.92/0.67	-0.38/-0.56	-0.57/-1.99	-0.89/-0.95	0.11/-0.53	-3.05/-1.46	0.15/-1.57	-7.50/-2.83	-2.16/-5.05	-7.63/-6.96	-8.93/-2.91	-1.96/-4.72	-7.58/-4.88	-2.66/-14.16	-14.70/-6.43	-7.29/-6.90
Θ(142.5°)	-3.94/-3.00	-4.00/-2.76	-4.84/-10.28	-9.39/-9.66	-13.10/-13.53	-8.49/-8.49	-8.88/-8.51	-5.15/-3.42	-2.48/-2.64	-2.14/-2.38	-3.61/-3.18	-3.61/-3.42	-2.84/-3.84	-3.33/-2.82	-4.85/-8.22	-8.33/-6.27	-2.74/-3.95	-4.55/-8.95	-6.17/-4.65	0.17/-2.18	-6.27/-6.39	-5.39/-9.01	-5.59/-6.77	-8.89/-5.92
Θ(150°)	-4.02/-3.92	-3.41/-2.55	-2.94/-4.70	-8.53/-13.92	-14.77/-10.02	-12.39/-13.57	-12.17/-10.93	-11.97/-11.99	-10.53/-6.20	-4.58/-5.36	-5.80/-5.97	-												

E1(XY plane) – $\Theta(90^\circ)\Phi(0\sim360^\circ)$
E2(XZ plane) – $\Theta(0\sim180^\circ)\Phi(0)$ and $\Theta(0\sim180^\circ)\Phi(180^\circ)$
E3(YZ plane) – $\Theta(0\sim180^\circ)\Phi(90^\circ)$ and $\Theta(0\sim180^\circ)\Phi(270^\circ)$

