



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

Appendix D

Θ(22.5°)	-12.74/-11.69	-10.47/8.98	-8.27/-7.41	-8.06/9.63	-10.93/-10.42	-9.18/-8.05	-7.45/-7.75	-7.67/-7.00	-6.85/-8.22	-10.10/-9.80	-8.46/-8.77	-9.45/-9.91	-9.18/-8.80	-9.56/-10.80	-11.15/-10.44	-9.49/-8.62	-7.69/-6.58	-5.47/-4.63	-4.30/-4.20	-4.32/-4.29	-4.26/-4.78	-6.13/-7.00	-8.18/-10.25	-12.17/-13.60
Θ(30°)	-14.78/-10.36	-7.85/-6.68	-5.91/-7.22	-6.39/-8.29	-7.19/-6.51	-5.98/-5.78	-6.21/-6.39	-6.14/-5.86	-6.49/-8.78	-9.95/-8.66	-7.71/-7.77	-8.87/-8.33	-6.01/-4.94	-5.27/-6.55	-7.96/-9.06	-10.44/-10.20	-10.36/-9.93	-9.05/-8.75	-7.09/-5.43	-4.23/-3.72	-3.51/-3.04	-3.48/-3.90	-4.26/-6.19	-8.69/-12.66
Θ(142.5°)	-7.12/-7.59	-7.05/-6.68	-6.68/-8.21	-7.48/-6.81	-6.23/-6.04	-3.89/-5.73	-6.59/-7.79	-10.06/-13.96	-15.14/-15.08	-12.58/-9.49	-8.56/-7.97	-7.45/-7.80	-5.99/-5.19	-5.21/-5.73	-7.29/-9.39	-9.84/-11.28	-13.25/-13.24	-9.16/-7.43	-6.52/-4.57	-3.25/-3.33	-4.23/-4.43	-6.32/-4.19	-4.28/-4.26	-4.86/-4.03
Θ(45°)	-5.13/-6.73	-7.68/-7.69	-8.01/-7.10	-6.11/-4.77	-4.36/-5.30	-6.96/-7.70	-8.38/-9.80	-11.36/-12.64	-12.67/-12.69	-12.69/-12.26	-8.81/-7.20	-7.71/-11.20	-9.28/-5.16	-4.04/-6.78	-4.24/-5.82	-8.22/-9.07	-10.10/-11.37	-8.65/-7.34	-4.12/-3.39	-3.15/-1.69	-1.38/-2.59	-5.91/-6.09	-4.43/-4.22	-5.08/-4.82
Θ(52.5°)	-3.28/-5.01	-5.95/-6.85	-6.23/-6.51	-6.81/-7.42	-6.73/-5.99	-6.75/-7.96	-9.12/-10.67	-11.87/-9.58	-8.40/-8.02	-7.84/-8.67	-9.53/-8.53	-7.52/-8.24	-9.19/-6.22	-5.44/-5.49	-5.61/-7.23	-9.99/-10.40	-14.18/-12.29	-9.75/-8.29	-7.62/-9.35	-3.56/-2.77	-3.10/-2.63	-3.47/-6.91	-8.15/-4.08	-2.99/-3.85
Θ(60°)	-2.51/-3.27	-3.90/-4.57	-3.61/-2.94	-4.84/-5.94	-6.21/-7.27	-9.55/-13.33	-10.44/-8.38	-7.97/-6.90	-7.14/-7.84	-6.64/-7.16	-8.19/-8.15	-7.49/-7.96	-5.02/-4.13	-4.48/-3.42	-6.42/-12.08	-12.01/-15.54	-9.49/-6.95	-5.32/-3.69	-4.65/-7.33	-6.07/-4.18	-3.17/-5.19	-11.50/-6.19	-1.03/-3.11	
Θ(67.5°)	-1.29/-2.41	-3.07/-2.56	-1.28/-0.87	-2.55/-2.70	-2.71/-4.42	-8.01/-15.29	-15.20/-10.48	-8.33/-7.77	-8.47/-10.30	-7.82/-7.26	-9.92/-9.92	-6.80/-7.51	-10.00/-4.91	-3.22/-3.63	-3.47/-2.43	-4.07/-6.59	-9.50/-13.20	-9.17/-8.07	-9.89/-6.90	-5.58/-6.61	-9.56/-9.29	-7.35/-4.50	-7.54/-8.25	-3.14/-0.31
Θ(75°)	0.31/-1.63	-2.72/-0.48	-0.30/-0.69	-1.03/-1.70	-1.64/-2.94	-6.85/-11.62	-10.70/-10.06	-11.02/-10.67	-10.55/-11.36	-12.46/-8.77	-8.36/-9.38	-5.37/-0.47	-5.79/-4.52	-3.42/-4.90	-1.94/-0.88	-1.59/-2.29	-4.49/-6.17	-11.12/-9.13	-7.69/-7.33	-10.31/-11.39	-14.08/-11.02	-5.46/-7.46	-8.61/-2.73	-1.01/-0.51
Θ(82.5°)	0.53/-0.40	-1.22/-0.16	0.25/-1.28	-0.76/-0.10	-0.83/-2.20	-3.79/-5.80	-7.47/-10.17	-11.84/-12.17	-8.13/-8.10	-12.27/-6.27	-6.02/-4.93	-3.12/-3.55	-3.16/-1.49	-1.82/-4.65	-2.81/-1.22	-0.77/-3.28	-6.15/-4.46	-3.19/-6.76	-6.08/-7.25	-6.69/-10.81	-6.94/-4.39	-4.17/-3.03	-3.63/-2.91	-0.26/-0.84
Θ(90°)	-1.91/-1.55	-1.42/-1.84	-1.35/-1.83	0.61/-1.15	-0.43/-2.85	-4.07/-6.38	-8.53/-8.46	-7.75/-7.28	-6.77/-6.07	-5.48/-5.62	-5.27/-3.59	-1.95/-1.76	-0.97/-0.15	-0.76/-2.15	-4.76/-3.89	-3.35/-2.30	-4.99/-5.99	-5.98/-10.35	-14.96/-12.09	-10.46/-10.56	-4.50/-4.85	-7.37/-3.87	-3.23/-3.07	-3.75/-0.39
Θ(97.5°)	-6.42/-4.87	-3.70/-4.05	-2.33/-0.36	1.50/-8.0	-4.42/-5.63	-6.67/-6.46	-7.37/-5.49	-7.01/-6.38	-5.48/-3.37	-3.99/-3.46	-1.48/-1.06	-0.23/-0.58	-0.04/-0.20	-1.94/-0.85	-3.41/-5.34	-2.60/-8.92	-15.06/-8.20	-13.60/-9.92	-12.36/-8.00	-8.27/-8.79	-5.36/-4.86	-2.46/-7.43	-7.37/-3.46	
Θ(105°)	-10.50/-7.02	-5.16/-3.52	-1.94/-0.57	0.34/-0.20	-1.06/-1.25	-2.24/-2.61	-3.82/-5.63	-7.90/-8.74	-10.16/-4.66	-3.70/-2.49	-2.96/-1.50	0.22/-0.43	0.01/-1.18	2.422,42	0.66/-0.05	-1.11/-6.74	-4.70/-4.62	-11.89/-4.98	-6.83/-7.37	-8.46/-6.61	-9.89/-9.37	-7.41/-3.49	-2.53/-7.09	-6.52/-6.41
Θ(112.5°)	-8.18/-6.68	-6.90/-2.13	-1.20/-0.57	-1.37/-1.66	-0.90/-0.47	-1.02/-2.03	-3.65/-7.58	-9.93/-10.63	-9.72/-5.25	-1.83/-0.36	-1.51/-1.33	0.66/-1.52	1.40/-1.11	0.73/-0.65	0.62/-1.11	-2.18/-5.95	-5.35/-5.02	-10.18/-13.62	-12.33/-8.45	-8.16/-11.15	-15.61/-3.06	-1.68/-3.90	-7.55/-10.15	-7.25/-12.99
Θ(120°)	-2.99/-2.23	-5.44/-1.89	-0.64/-0.52	-1.16/-2.46	-2.32/-1.04	-0.37/-1.41	-3.48/-5.64	-9.23/-10.92	-7.29/-4.28	-1.96/-1.74	-1.25/-0.32	1.16/-1.18	0.64/-0.23	-0.28/-2.61	-1.93/-3.04	-9.81/-7.46	-6.90/-15.04	-10.63/-10.14	-10.11/-7.07	-8.61/-7.82	-10.11/-7.07	-6.17/-5.15	-8.13/-12.34	-12.94/-8.06
Θ(127.5°)	-1.52/-2.12	-3.45/-2.03	-1.04/-1.18	-1.98/-3.33	-2.63/-0.59	-0.29/-0.86	-2.22/-3.73	-4.85/-5.23	-5.16/-3.70	-3.30/-3.41	-2.96/-2.20	-2.12/-1.40	-1.20/-1.70	-2.95/-6.35	-5.82/-5.10	-4.87/-9.60	-9.66/-15.01	-9.65/-13.02	-15.09/-8.40	-12.86/-6.50	-10.09/-7.61	-4.94/-5.37	-10.69/-12.98	-9.20/-4.52
Θ(135°)	-2.22/-3.09	-3.08/-2.07	-2.26/-3.45	-3.36/-2.66	-2.14/-1.19	-0.77/-1.70	-2.94/-3.43	-2.89/-3.06	-3.23/-2.49	-3.29/-4.52	-4.26/-4.01	-4.50/-5.50	-5.47/-6.72	-6.51/-4.46	-5.20/-9.08	-5.50/-7.64	-3.39/-12.12	-5.89/-9.57	-8.33/-6.16	-4.98/-11.68	-7.99/-6.07	-4.76/-4.76	-9.33/-12.03	-8.02/-3.66
Θ(142.5°)	-3.87/-5.66	-3.60/-3.91	-5.12/-2.58	-2.49/-3.39	-3.76/-3.36	-2.49/-0.97	-4.47/-1.23	-1.93/-1.73	-1.57/-1.67	-1.72/-2.87	-6.02/-8.27	-7.15/-7.16	-6.38/-3.32	-3.24/-2.62	-3.32/-4.21	-3.85/-9.67	-9.28/-8.36	-5.79/-4.27	-7.06/-5.70	-5.10/-4.84	-1.35/-12.12	-12.23/-14.27	-16.05/-16.00	-15.06/-15.67
Θ(150°)	-4.25/-5.86	-9.04/-11.68	-11.02/-10.34	-9.70/-4.59	-2.73/-3.13	-3.67/-4.12	-4.24/-4.88	-5.48/-4.25	-2.35/-1.84	-2.55/-1.76	-1.95/-3.68	-4.82/-4.59	-4.46/-3.46	-3.33/-4.01	-7.04/-8.42	-8.35/-11.22	-11.47/-14.97	-11.84/-11.79	-15.23/-10.69	-8.34/-7.36	-8.66/-7.92	-5.45/-5.06	-4.82/-4.15	
Θ(157.5°)	-6.44/-10.02	-11.64/-10.48	-9.42/-9.43	-10.56/-11.79	-9.50/-8.53	-8.77/-8.77	-7.72/-6.88	-6.51/-4.98	-3.41/-2.84	-2.37/-1.36	-0.61/-1.00	-1.77/-2.99	-4.30/-5.33	-7.77/-10.18	-9.74/-10.14	-11.67/-9.75	-9.92/-14.14	-15.47/-13.11	-12.42/-14.89	-15.27/-14.56	-12.42/-8.84	-8.05/-6.58	-4.17/-3.31	-3.47/-4.26
Θ(165°)	-9.06/-9.49	-8.56/-7.30	-6.16/-6.14	-6.46/-6.96	-7.32/-7.00	-6.50/-6.36	-7.35/-8.04	-7.48/-6.13	-5.69/-6.29	-6.04/-4.74	-3.72/-3.40	-3.92/-5.36	-7.35/-9.66	-12.42/-14.81	-14.45/-14.79	-13.58/-11.03	-10.31/-9.60	-10.00/-10.60	-12.00/-15.20	-15.43/-15.57	-14.76/-11.54	-9.71/-9.99	-10.23/-9.67	-8.19/-8.57
Θ(172.5°)	-13.67/-11.60	-10.32/-9.93	-9.49/-8.74	-8.48/-8.40	-7.67/-7.16	-7.19/-7.04	-6.74/-6.85	-7.92/-8.83	-9.43/-8.96	-8.25/-7.90	-7.09/-6.46	-6.45/-6.84	-7.38/-8.19	-9.71/-13.20	-15.50/-15.17	-15.56/-14.92	-13.47/-14.26	-13.75/-14.02	-13.15/-12.12	-12.23/-14.27	-16.05/-16.00	-15.06/-15.67	-15.22/-13.81	
Θ(180°)	-15.23/-14.68	-15.20/-15.18	-15.25/-14.78	-15.75/-15.79	-14.11/-13.59	-13.64/-12.82	-11.84/-11.38	-11.20/-10.87	-10.23/-9.59	-9.45/-9.14	-9.32/-10.28	-12.09/-14.17	-13.87/-14.20	-14.44/-15.60	-15.04/-13.67	-13.39/-11.92	-11.57/-12.12	-13.78/-14.74	-14.44/-15.32	-15.80/-14.77	-15.37/-15.23	-14.70/-15.58	-15.67/-14.56	-14.84/-15.07
Freq(Hz)	2.450GHz	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.92/-7.35	-6.68/-6.14	-5.94/-6.13	-6.54/-6.92	-7.22/-7.51	-7.48/-7.45	-7.69/-7.97	-8.14/-8.36	-8.80/-9.07	-9.20/-9.42	-9.70/-9.95	-9.93/-9.83	-9.57/-9.37	-8.97/-8.13	-7.20/-6.95	-7.51/-7.98	-8.03/-8.16	-8.96/-8.76	-7.69/-7.18	-7.35/-7.57	-7.77/-8.02	-8.27/-8.63	-8.59/-8.47	-8.29/-8.20
Θ(7.5°)	-10.02/-9.34	-8.39/-7.51	-7.17/-7.10	-6.15/-6.93	-6.73/-6.74	-6.61/-6.36	-6.39/-6.66	-6.82/-6.95	-7.20/-7.36	-7.42/-7.58	-7.86/-8.08	-8.23/-8.05	-7.79/-7.42	-6.85/-6.11	-5.48/-5.41	-6.91/-6.58	-7.06/-7.69	-8.06/-8.36	-8.81/-9.27	-9.66/-9.99	-10.22/-9.98	-10.29/-10.19		
Θ(15°)	-11.92/-11.29	-10.00/-8.70	-7.78/-7.29	-6.78/-6.94	-5.39/-5.40	-5.38/-5.17	-5.11/-5.37	-5.59/-5.63	-5.67/-5.75	-5.88/-6.07	-6.34/-6.62	-6.62/-6.44	-6.15/-5.71	-5.08/-4.39	-3.93/-3.93	-4.37/-5.11	-5.89/-6.88	-8.30/-9.60	-9.63/-9.23	-9.36/-9.85	-10.23/-10.88	-11.09/-11.36	-11.80/-11.78	-11.77/-11.89
Θ(22.5°)	-13.18/-12.69	-11.23/-9.61	-8.25/-7.30	-6.33/-5.32	-4.79/-4.91	-5.03/-4.96	-4.98/-5.18	-5.29/-5.19	-5.00/-4.95	-5.01/-5.21	-5.53/-5.45	-5.72/-5.40	-4.95/-4.49	-3.84/-3.25	-3.15/-3.28	-3.81/-4.57	-5.50/-6.42	-7.75/-8.80	-9.38/-9.93	-10.09/-10.16	-10.94/-11.55	-12.14/-12.15	-12.40/-12.72	-12.92/-12.90
Θ(30°)	-12.27/-12.47	-11.79/-10.44	-8.95/-7.82	-6.85/-6.01	-5.61/-5.99	-6.27/-6.16	-6.07/-6.03	-5.81/-5.29	-4.65/-4.09	-3.87/-4.94	-5.30/-5.31	-4.95/-4.45	-4.72/-5.85	-4.88/-3.33	-3.02/-2.98	-3.28/-3.88	-4.72/-5.85	-7.16/-8.02	-8.61/-8.35	-8.67/-8.70	-8.92/-8.99	-8.89/-8.99	-9.47/-10.29	-11.12/-11.75
Θ(37.5°)	-12.56/-13.00	-12.97/-11.74	-10.06/-9.95	-8.38/-7.65	-7.59/-8.35	-8.39/-7.60	-7.15/-6.95	-6.49/-5.41	-4.43/-3.45	-2.82/-2.64	-2.97/-3.59	-4.29/-4.57	-4.45/-4.09	-3.56/-2.94	-2.66/-2.42	-2.50/-2.89	-3.53/-4.31	-5.20/-5.78	-5.75/-5.66	-5.95/-6.32	-6.46/-6.55	-6.55/-6.76	-7.36/-8.47	-9.96/-11.55
Θ(45°)	-14.59/-14.03	-13.41/-12.68	-10.34/-9.55	-8.10/-11.18	-11.63/-12.17	-11.50/-9.15	-7.90/-7.40	-6.93/-6.09	-4.87/-3.70	-2.35/-1.45	-1.17/-1.49	-2.00/-2.46	-3.11/-3.13	-2.84/-2.35	-1.92/-1.52	-1.41/-1.58	-1.93/-2.62	-2.57/-2.92	-3.12/-3.13	-3.35/-3.83	-4.38/-4.80	-5.02/-5.27	-6.09/-7.49	-9.59/-12.42
Θ(52.5°)	-14.71/-15.18	-13.15/-10.13	-8.05/-7.58	-8.89/-11.67	-14.24/-14.76	-12.90/-10.76	-8.96/-7.89	-7.30/-6.80	-5.83/-4.75	-2.91/-4.49	-0.70/-0.47	-0.63/-1.03	-1.41/-1.62	-1.67/-1.50	-1.00/-0.70	-0.53/-0.52	-0.60/-0.60	-0.64/-0.87	-1.23/-1.54	-1.73/-2.01	-2.47/-2.97	-3.43/-4.04	-5.04/-6.56	-8.59/-11.30
Θ(60°)	-12.48/-12.25	-9.76/-7.18	-5.75/-5.83	-7.42/-9.51	-10.36/-10.24	-9.03/-7.48	-6.52/-6.04	-5.71/-5.60	-5.32/-4.61	-3.33/-2.46	-1.37/-0.57	-0.40/-0.63	-1.01/-1.30	-1.27/-0.79	-0.230.16	0.420.66	0.870.99	0.970.67	0.14/-0.38	-0.59/-0.64	-0.94/-1.58	-2.55/-3.65	-4.68/-5.98	-8.04/-10.57
Θ(67.5°)	-10.45/-12.24	-9.75/-6.98	-5.99/-6.81	-9.01/-11.62	-10.20/-7.91	-6.39/-5.41	-5.00/-5.18	-4.78/-4.17	-3.84/-4.10	-4.52/-3.75	-2.16/-1.17	-0.94/-1.14	-1.50/-1.51	-1.44/-0.80	-0.120.36	0.881.35	1.691.76	1.490.91	0.22/-0.29	-0.42/-0.50	-0.91/-1.75	-2.93/-3.94	-4.55/-5.44	-6.72/-8.48
Θ(75°)	-9.57/-15.12	-14.42/-9.37	-7.75/-8.46	-11.29/-14.36	-11.19/-7.41	-5.35/-4.67	-4.72/-5.41	-5.95/-4.72	-3.49/-2.85	-3.08/-3.39	-2.49/-4.18	-0												



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

Appendix D

Θ(67.5°)	-3.01/-8.68	-6.89/-6.94	-9.44/-4.92	-4.79/-6.07	-6.20/-5.51	-3.67/-2.13	-1.73/-4.11	-5.68/-4.14	-2.61/-3.71	-5.63/-4.30	-3.17/-1.32	-0.40/-3.82	-4.95/-2.87	-3.52/-3.94	-4.89/-4.38	-4.34/-6.39	-7.52/-6.84	-8.55/-7.35	-5.99/-6.75	-8.09/-5.58	-3.32/-3.43	-2.57/-1.23	-2.46/-3.19	-1.25/-0.71
Θ(75°)	-0.90/-7.34	-5.06/-8.03	-12.36/-4.88	-6.69/-6.68	-9.03/-5.43	-3.68/-1.72	-2.45/-6.35	-8.71/-4.95	-1.76/-2.31	-5.19/-3.03	-0.68/-1.04	-1.16/-2.53	-4.01/-3.67	-3.39/-3.74	-6.42/-5.36	-5.87/-7.29	-8.55/-12.82	-14.89/-7.99	-6.77/-6.51	-5.61/-2.72	-2.00/-2.08	-1.67/-1.07	-0.80/-0.95	-0.540/-7.1
Θ(82.5°)	-1.18/-4.68	-2.91/-6.61	-6.71/-3.76	-8.72/-9.75	-10.78/-7.45	-6.01/-2.68	-2.56/-5.36	-7.88/-4.73	-3.09/-2.78	-3.45/-2.40	-0.81/-0.90	-2.25/-2.56	-3.37/-3.47	-2.12/-2.51	-4.87/-3.68	-6.04/-8.99	-10.74/-13.69	-11.15/-8.97	-6.68/-0.61	-1.47/-2.90	-1.26/-0.17	-0.76/-1.46	-1.01/-0.91	-0.51/-0.26
Θ(90°)	-2.85/-2.84	-2.17/-6.85	-7.19/-3.68	-6.51/-8.53	-9.40/-8.56	-7.14/-4.62	-6.44/-7.47	-8.20/-5.53	-4.89/-4.76	-3.71/-1.62	-0.77/-2.12	-1.77/-2.24	-1.86/-1.73	-0.42/-2.72	-3.50/-3.50	-3.79/-5.19	-10.05/-8.74	-12.07/-5.35	-11.47/-1.44	-1.99/-2.62	-0.02/-1.49	1.17/-2.86	-5.11/-2.10	1.15/-0.49
Θ(97.5°)	-1.71/-5.93	-3.46/-8.49	-10.19/-3.68	-10.38/-11.06	-10.06/-11.62	-11.84/-10.83	-11.08/-15.11	-11.83/-8.84	-7.75/-5.41	-2.04/-0.66	-1.84/-1.59	0.45/-2.37	-1.66/-0.02	-0.05/-2.99	-3.10/-5.83	-5.00/-5.33	-3.84/-13.43	-7.76/-5.03	-5.41/-0.47	-3.85/-3.76	1.66/-66	2.87/-1.58	-10.37/-5.42	1.09/-0.04
Θ(105°)	-1.77/-9.48	-2.94/-5.49	-7.98/-9.15	-15.70/-14.86	-11.75/-14.42	-12.90/-13.93	-13.62/-11.81	-12.41/-7.29	-5.48/-2.14	-0.59/-0.18	-0.16/-0.19	0.11/-0.29	1.64/-0.32	1.51/-0.76	-1.32/-5.71	-6.81/-4.17	-2.16/-12.88	-2.80/-1.47	-3.60/-1.85	-5.59/-4.27	1.070/-73	1.61/-4.29	-6.31/-4.29	0.14/-0.22
Θ(112.5°)	-9.05/-11.06	-8.03/-8.41	-8.21/-8.02	-9.78/-12.18	-11.42/-8.70	-12.50/-12.37	-12.89/-9.77	-7.18/-4.81	-2.35/-1.26	-2.51/-1.24	0.330/-60	0.571/-81	1.83/-1.38	1.66/-2.62	-3.70/-15.55	-0.95/-7.36	-0.82/-10.79	-2.26/-7.53	-0.59/-2.80	-4.20/-3.06	1.67/-1.03	1.000/-76	-7.48/-6.05	-1.58/-0.85
Θ(120°)	-5.08/-9.39	-12.87/-8.98	-11.47/-11.87	-8.27/-9.89	-15.66/-13.47	-8.61/-7.19	-8.17/-8.07	-5.47/-4.15	-4.07/-3.89	-2.70/-0.93	-1.95/-2.01	-0.920/-50	-1.92/-0.98	0.81/-1.81	-7.27/-8.12	-2.31/-5.04	-1.64/-4.75	-2.22/-3.96	-0.90/-2.70	-4.12/-5.61	0.19/-2.70	-3.09/-1.93	-9.67/-8.12	-2.80/-2.20
Θ(127.5°)	-5.52/-8.30	-7.70/-8.07	-9.06/-14.65	-9.45/-6.12	-9.92/-15.00	-13.65/-8.75	-6.85/-9.55	-10.11/-8.19	-6.78/-5.06	-3.57/-3.63	-2.97/-1.19	-1.62/-2.25	-2.72/-1.45	-1.05/-2.57	-6.71/-5.43	-4.33/-1.34	-2.83/-3.93	-3.44/-4.32	-2.18/-1.25	-3.72/-7.68	-2.82/-2.67	-7.66/-4.85	-5.66/-5.66	-2.89/-4.19
Θ(135°)	-7.90/-11.78	-10.72/-6.95	-9.05/-14.33	-16.22/-14.31	-10.98/-11.86	-14.63/-14.75	-9.71/-9.07	-10.70/-10.47	-7.69/-3.89	-2.04/-2.35	-1.97/-0.80	-0.79/-2.93	-4.30/-2.02	-0.48/-1.08	-1.51/-2.95	-3.20/-0.76	-4.27/-2.54	-2.11/-5.99	-3.80/-0.12	-3.76/-12.78	-11.11/-2.86	-2.92/-5.71	-5.86/-5.93	-5.07/-6.38
Θ(142.5°)	-11.67/-10.96	-9.07/-7.16	-8.04/-11.22	-13.03/-14.32	-13.84/-16.07	-11.54/-7.73	-8.12/-10.44	-12.32/-12.17	-7.27/-3.08	-1.11/-0.60	-1.19/-1.67	-1.30/-1.57	-2.23/-2.49	-2.26/-1.29	-0.89/-2.95	-1.34/-2.86	-10.17/-5.76	-3.99/-5.26	-5.21/-1.11	-1.30/-6.77	-9.14/-13.46	-7.41/-4.53	-2.98/-2.41	-3.65/-7.40
Θ(150°)	-12.51/-12.89	-9.95/-7.41	-6.76/-8.88	-11.77/-14.34	-15.59/-15.22	-13.06/-9.41	-8.93/-10.04	-10.52/-8.45	-5.49/-3.87	-2.62/-1.83	-1.67/-1.80	-1.40/-1.26	-2.36/-3.36	-2.18/-0.91	-1.21/-2.35	-3.28/-7.38	-10.57/-7.31	-4.86/-3.90	-6.18/-6.45	-4.01/-4.23	-6.38/-7.83	-7.99/-8.03	-8.04/-7.40	-5.51/-7.46
Θ(157.5°)	-12.61/-14.96	-11.44/-9.22	-9.92/-14.73	-14.94/-12.55	-10.20/-10.44	-12.36/-12.32	-12.63/-14.56	-13.74/-11.16	-8.85/-8.32	-7.94/-6.74	-5.34/-4.30	-4.13/-5.65	-7.48/-7.49	-6.12/-5.75	-5.81/-6.68	-8.97/-11.78	-8.69/-6.89	-6.47/-7.11	-8.43/-6.52	-3.33/-2.15	-3.03/-5.12	-7.84/-8.98	-6.95/-7.00	-6.93/-8.90
Θ(165°)	-15.72/-15.61	-15.87/-14.18	-13.73/-13.84	-12.46/-13.90	-15.08/-14.92	-15.43/-15.46	-14.30/-13.95	-15.08/-14.26	-14.25/-13.57	-14.78/-15.11	-15.28/-12.09	-10.16/-9.50	-8.87/-7.72	-6.76/-6.46	-5.08/-5.28	-5.62/-5.32	-5.06/-5.42	-7.20/-8.96	-11.67/-10.41	-8.66/-8.62	-5.78/-5.97	-6.66/-8.25	-9.41/-11.70	-14.01/-14.66
Θ(172.5°)	-12.98/-13.40	-13.76/-13.65	-13.73/-13.72	-15.04/-15.65	-15.59/-12.70	-10.99/-10.74	-9.55/-9.43	-10.99/-10.74	-11.23/-11.49	-11.24/-11.61	-12.59/-13.18	-12.18/-10.56	-8.80/-7.62	-6.85/-6.49	-6.65/-7.10	-7.47/-7.15	-7.33/-7.70	-8.48/-9.24	-15.52/-12.72	-12.78/-12.64	-13.74/-15.02	-15.83/-15.45	-15.77/-15.73	-14.88/-13.74
Θ(180°)	-9.07/-9.55	-11.44/-13.93	-14.65/-15.13	-13.85/-14.17	-14.00/-11.47	-11.24/-12.30	-12.67/-12.91	-13.75/-14.80	-16.13/-15.50	-14.83/-14.21	-13.82/-13.78	-14.11/-13.63	-14.19/-13.98	-14.61/-15.35	-15.11/-15.99	-16.00/-15.13	-16.02/-15.77	-15.27/-15.86	-15.78/-15.24	-15.57/-15.07	-15.30/-13.33	-13.23/-12.61	-11.57/-10.79	-10.26/-10.56
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°)	-5.08/-5.80	-6.83/-6.95	-7.64/-7.74	-7.30/-6.74	-7.19/-6.90	-6.50/-7.74	-7.83/-7.25	-6.47/-6.05	-6.27/-6.72	-7.04/-6.97	-6.81/-6.65	-6.76/-6.83	-6.89/-6.70	-7.10/-7.23	-7.09/-7.44	-7.69/-8.02	-8.41/-8.39	-8.07/-7.93	-7.51/-7.85	-8.07/-8.37	-8.23/-8.42	-7.95/-7.08	-6.08/-6.18	-6.49/-5.97
Θ(7.5°)	-4.84/-6.08	-6.36/-6.94	-7.12/-7.46	-7.99/-7.64	-8.07/-7.92	-7.40/-8.80	-8.50/-8.39	-7.63/-7.39	-7.36/-7.83	-7.08/-7.14	-7.01/-6.90	-7.14/-7.47	-7.07/-6.58	-6.37/-6.31	-6.81/-7.88	-6.29/-7.63	-7.06/-6.51	-6.94/-7.41	-6.59/-6.21	-6.61/-7.13	-7.23/-7.24	-6.64/-5.89	-5.39/-5.14	-6.07/-5.23
Θ(15°)	-4.00/-4.81	-5.15/-6.57	-7.62/-8.95	-10.66/-10.59	-9.35/-8.42	-8.67/-8.52	-7.83/-8.11	-8.85/-8.75	-10.03/-10.29	-10.03/-8.78	-9.38/-9.26	-10.05/-9.93	-9.48/-9.16	-9.48/-10.29	-11.33/-10.32	-8.42/-7.37	-6.80/-6.44	-5.98/-5.47	-5.09/-4.77	-4.87/-5.05	-6.00/-6.27	-5.68/-4.71	-4.03/-3.97	-4.10/-3.97
Θ(22.5°)	-2.88/-4.08	-6.05/-8.12	-11.62/-9.51	-6.20/-3.99	-2.60/-2.17	-2.23/-2.83	-3.03/-3.46	-3.65/-4.23	-4.67/-5.42	-5.91/-7.38	-8.29/-8.76	-9.61/-11.21	-12.37/-12.16	-11.18/-8.31	-5.75/-4.27	-3.38/-2.69	-2.04/-1.51	-1.53/-1.91	-2.42/-2.31	-2.14/-2.33	-2.63/-3.48	-3.88/-3.77	-3.27/-2.47	-2.06/-1.97
Θ(30°)	-1.70/-2.77	-5.26/-9.00	-7.82/-4.00	-3.46/-3.38	-3.28/-4.09	-4.84/-4.89	-4.83/-4.82	-4.66/-4.79	-5.32/-5.95	-6.73/-8.40	-8.80/-7.50	-7.55/-8.79	-6.05/-8.30	-4.68/-6.19	-4.44/-4.06	-3.73/-3.26	-3.05/-2.57	-2.42/-2.58	-3.50/-4.63	-5.38/-5.94	-4.48/-4.25	-2.55/-1.76	-1.55/-1.96	-1.49/-1.35
Θ(37.5°)	-1.81/-4.75	-8.12/-9.52	-6.78/-9.51	-6.05/-6.35	-6.24/-5.04	-4.11/-3.30	-2.58/-3.03	-3.92/-4.65	-5.29/-6.46	-8.12/-8.86	-7.94/-6.42	-6.63/-6.08	-6.72/-5.48	-3.70/-2.62	-3.43/-5.67	-6.43/-7.32	-8.10/-6.11	-4.74/-4.44	-3.84/-3.38	-3.64/-8.44	-5.90/-6.49	-5.86/-4.87	-3.86/-3.55	-2.68/-1.22
Θ(45°)	-3.51/-6.20	-10.69/-10.43	-6.64/-6.23	-6.61/-5.06	-3.82/-1.65	-0.42/-0.98	-1.87/-2.14	-1.80/-2.73	-4.44/-5.53	-6.68/-8.74	-7.64/-5.63	-5.25/-5.19	-5.75/-5.04	-3.93/-2.94	-3.46/-5.51	-6.38/-6.65	-6.65/-6.34	-7.51/-6.98	-6.52/-4.71	-3.04/-2.61	-3.42/-4.30	-4.44/-4.79	-5.64/-5.21	-4.49/-3.15
Θ(52.5°)	-3.53/-6.19	-7.21/-7.57	-9.19/-9.42	-9.45/-7.60	-5.65/-4.04	-2.42/-2.18	-2.66/-4.14	-4.81/-4.56	-5.25/-6.54	-7.34/-7.79	-6.04/-4.86	-4.95/-7.45	-4.65/-3.74	-2.92/-3.88	-4.58/-7.28	-6.15/-6.47	-7.79/-8.98	-6.71/-4.91	-4.30/-5.43	-7.19/-5.57	-4.00/-4.52	-4.58/-4.09	-7.08/-8.09	-2.80/-1.45
Θ(60°)	-2.80/-5.94	-5.50/-10.27	-10.55/-7.90	-7.98/-8.48	-7.00/-3.48	-1.98/-1.53	-1.32/-2.48	-3.90/-3.06	-1.81/-3.23	-6.03/-5.54	-4.21/-2.67	-1.74/-5.17	-7.50/-3.61	-2.16/-3.69	-4.72/-4.78	-7.39/-5.91	-5.71/-5.29	-5.18/-7.05	-5.64/-4.83	-7.28/-8.90	-7.18/-4.79	-3.47/-5.36	-7.99/-9.83	-2.74/-0.34
Θ(67.5°)	-1.17/-5.43	-4.53/-9.68	-7.46/-0.47	-5.01/-5.67	-5.33/-3.58	-2.75/-1.12	-1.19/-3.31	-4.16/-2.50	-1.32/-2.53	-4.89/-3.44	-1.65/-1.12	-1.35/-3.79	-4.70/-3.43	-3.62/-3.67	-5.26/-7.09	-8.26/-7.72	-9.60/-5.48	-6.78/-6.22	-5.97/-7.43	-6.61/-3.76	-2.82/-8.21	-2.87/-2.72	-3.32/-6.85	-3.22/-0.19
Θ(75°)	-0.17/-6.02	-3.38/-6.28	-9.81/-5.44	-7.36/-8.50	-9.60/-5.18	-3.40/-2.76	-3.67/-3.76	-4.69/-3.13	-2.79/-4.03	-3.55/-1.91	-0.08/-0.66	-1.95/-2.91	-8.33/-4.27	-2.05/-1.52	-5.94/-7.95	-6.13/-7.97	-10.51/-9.06	-9.48/-6.39	-7.40/-5.85	-5.05/-3.82	-1.94/-1.40	-1.88/-2.65	-1.57/-0.92	-2.03/-0.06
Θ(82.5°)	-1.96/-4.55	-1.82/-6.98	-8.22/-3.23	-6.89/-5.81	-7.54/-6.79	-4.04/-2.64	-3.50/-5.78	-6.72/-6.15	-4.42/-3.82	-3.79/-1.99	-0.37/-1.77	-2.48/-2.72	-4.28/-3.44	-3.16/-5.24	-9.94/-6.56	-8.87/-9.92	-7.18/-8.29	-8.83/-7.89	-8.43/-2.51	-2.85/-2.41	-1.050/-75	-0.871/-4.53	-3.64/-0.66	0.280/-06
Θ(90°)	-3.51/-2.55	-0.89/-6.50	-6.47/-9.43	-7.54/-6.06	-9.35/-6.58	-4.99/-4.58	-6.75/-7.59	-12.25/-6.52	-5.57/-4.30	-2.52/-1.22	-1.04/-0.33	-1.43/-4.24	-4.03/-1.48	-1.68/-3.65	-11.06/-6.52	-10.38/-6.69	-6.17/-5.92	-9.76/-5.22	-10.81/-1.26	-2.55/-5.13	-0.732/-02	2.760/-51	-4.33/-0.51	1.350/-34
Θ(97.5°)	-4.49/-4.00	-2.73/-6.34	-7.88/-5.92	-12.40/-9.02	-7.12/-10.35	-10.18/-9.16	-9.73/-12.77	-11.20/-9.92	-6.00/-2.97	-4.07/-1.24	-1.95/-2.26	-1.34/-1.11	-0.220/-34	-0.04/-2.36	-7.54/-8.08	-8.39/-3.15	-4.53/-11.73	-10.51/-6.29	-5.480/-64	-2.22/-4.48	-0.691/-08	2.871/-22	-3.22/-4.18	0.620/-31
Θ(105°)	-4.44/-6.02	-6.02/-6.44	-5.04/-5.05	-12.32/-11.21	-7.67/-8.93	-10.04/-12.36	-15.71/-14.90	-12.15/-8.08	-4.14/-1.54	0.14/-0.78	-1.650/-10	2.021/-39	1.989/-141	2.101/-03	-4.45/-3.95	-3.43/-3.20	-4.02/-15.63	-2.34/-4.31	-4.37/-1.88	-4.12/-4.27	1.810/-66	0.610/-00	-5.43/-4.78	0.01/-2.0
Θ(112.5°)	-6.15/-5.02	-9.60/-9.58	-6.92/-7.56	-8.52/-10.75	-11.60/-11.37	-9.74/-10.78	-10.30/-8.29	-7.54/-3.62	-1.38/-0.87	-0.670/-97	1.962/-18	2.812/-25	3.04/-0.22	0.961/-75	-4.23/-4.32	-0.11/-3.54	-2.10/-13.32	-1.68/-5.73	-0.953/-42	-4.53/-2.58	2.900/-55	1.50/-0.83	-8.09/-7.52	-2.780/-22
Θ(120°)	-5.03/-6.51	-7.91/-11.30	-11.59/-9.23	-6.26/-8.10	-14.32/-8.91	-6.68/-6.25	-8.64/-9.21	-2.68/-2.76	-2.68/-2.02	-0.240														



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

Appendix D

Θ(112.5°)	-5.79/-5.92	-6.05/-6.70	-9.50/-7.71	-9.14/-6.76	-5.04/-4.13	-2.75/-2.23	-2.37/-2.49	-2.65/-3.00	-2.85/-1.53	0.23/0.53	-0.08/-0.82	-0.95/-0.25	-0.76/-1.49	-2.34/-2.58	-4.13/-4.91	-6.10/-6.92	-7.07/-9.05	-7.33/-7.67	-7.37/-4.61	-5.19/-2.57	-1.38/-2.46	-4.07/-8.03	-7.61/-5.02	-6.99/-8.00
Θ(120°)	-4.76/-5.72	-7.19/-10.71	-11.78/-9.53	-9.17/-7.94	-6.77/-4.97	-4.03/-3.33	-4.09/-5.66	-7.23/-6.35	-4.35/-2.90	-1.93/-1.60	-0.62/-0.37	-0.61/-1.66	-1.26/-1.45	-2.16/-2.29	-3.45/-7.57	-6.64/-6.43	-5.37/-6.19	-10.57/-8.98	-6.71/-8.66	-6.19/-4.45	-4.00/-4.23	-6.22/-8.84	-5.83/-5.95	-7.29/-8.15
Θ(127.5°)	-4.49/-6.54	-8.09/-11.78	-11.89/-10.06	-11.61/-14.45	-13.14/-10.85	-3.40/-9.38	-9.17/-9.84	-8.40/-9.59	-6.47/-3.81	-3.09/-1.59	-0.57/-0.24	-0.85/-2.50	-3.99/-3.82	-2.28/-2.43	-5.82/-7.30	-6.66/-5.23	-9.52/-9.91	-9.62/-9.28	-6.66/-8.95	-9.19/-5.57	-4.32/-4.08	-4.35/-7.28	-10.27/-5.85	-7.61/-9.09
Θ(135°)	-6.71/-7.21	-10.62/-13.44	-14.44/-13.04	-12.02/-12.04	-14.34/-13.57	-13.07/-11.60	-13.86/-15.29	-14.40/-9.69	-7.44/-6.65	-5.46/-5.34	-4.81/-2.72	-2.88/-3.61	-5.05/-6.31	-4.98/-4.29	-7.04/-12.68	-8.32/-7.70	-6.01/-4.79	-8.21/-7.01	-7.01/-8.44	-8.49/-5.74	-5.98/-3.85	-5.60/-14.59	-7.77/-8.72	-8.54/-9.87
Θ(142.5°)	-6.29/-6.77	-9.39/-9.92	-9.75/-10.15	-11.02/-12.42	-14.00/-14.18	-15.25/-15.08	-14.74/-11.86	-10.44/-10.74	-11.23/-10.05	-9.05/-7.30	-5.39/-6.38	-7.78/-9.65	-7.78/-10.07	-8.61/-7.72	-10.96/-9.38	-8.40/-8.92	-6.19/-9.91	-14.27/-9.70	-9.27/-8.64	-8.15/-6.32	-9.16/-8.99	-6.42/-10.63	-8.98/-10.98	-13.21/-9.44
Θ(150°)	-7.37/-7.27	-9.35/-11.56	-13.14/-13.32	-12.74/-12.31	-13.71/-10.35	-15.03/-16.16	-14.92/-14.82	-14.30/-13.77	-14.52/-15.32	-12.87/-8.94	-7.52/-7.65	-8.25/-11.77	-14.14/-11.61	-9.23/-8.83	-8.34/-8.46	-8.24/-6.60	-7.29/-13.16	-15.77/-15.78	-14.17/-10.34	-9.58/-8.62	-9.58/-12.52	-11.35/-12.63	-14.42/-15.58	-14.98/-9.58
Θ(157.5°)	-10.04/-7.43	-6.42/-8.04	-11.14/-14.20	-15.54/-14.04	-12.21/-11.61	-11.77/-12.36	-14.03/-14.97	-14.57/-15.16	-14.85/-12.95	-9.78/-8.63	-9.13/-10.14	-10.73/-10.89	-10.05/-9.09	-8.39/-7.93	-7.44/-7.88	-9.72/-12.00	-13.76/-14.95	-13.76/-14.49	-14.76/-11.46	-9.15/-8.70	-10.44/-12.54	-14.24/-14.60	-13.60/-11.98	-11.25/-10.05
Θ(165°)	-9.95/-9.88	-10.52/-12.04	-14.47/-15.35	-14.61/-15.90	-15.67/-15.25	-15.76/-15.04	-15.07/-14.96	-16.26/-16.19	-16.02/-12.95	-10.07/-8.32	-7.53/-7.64	-8.34/-9.28	-8.79/-9.08	-7.87/-7.04	-6.80/-7.55	-9.00/-10.21	-10.47/-9.93	-9.47/-9.49	-9.61/-9.86	-9.76/-10.04	-10.26/-10.91	-11.95/-13.55	-14.98/-15.17	-15.71/-13.44
Θ(172.5°)	-15.33/-14.01	-14.11/-13.75	-13.45/-15.23	-15.00/-16.00	-15.60/-15.82	-15.16/-14.58	-15.03/-15.37	-15.46/-15.17	-13.30/-11.63	-10.25/-9.46	-8.95/-8.93	-8.94/-9.28	-9.88/-10.30	-10.40/-10.31	-10.27/-10.39	-10.88/-11.17	-11.52/-11.75	-11.76/-11.22	-11.11/-10.48	-10.82/-12.37	-13.94/-16.14	-15.96/-15.73	-15.59/-15.41	-15.39/-14.09
Θ(180°)	-10.12/-9.50	-9.95/-10.63	-11.58/-12.48	-13.58/-13.79	-13.50/-13.12	-13.23/-13.14	-14.07/-13.67	-14.49/-15.68	-15.69/-15.69	-15.17/-14.57	-14.90/-15.44	-14.81/-13.79	-13.87/-14.34	-14.91/-15.42	-14.77/-15.41	-15.40/-14.90	-15.83/-15.15	-14.65/-15.32	-15.84/-15.92	-15.95/-15.47	-14.69/-12.98	-12.12/-11.56	-11.40/-11.42	-11.44/-11.37
Freq(Hz)	5.60/Pol.	Total/Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.72/-6.91	-7.24/-6.91	-6.97/-7.42	-7.44/-7.38	-7.28/-7.18	-6.97/-6.94	-6.75/-6.61	-6.75/-6.76	-6.80/-6.75	-6.91/-6.93	-6.90/-6.81	-6.74/-6.66	-6.82/-6.99	-7.16/-7.37	-7.43/-7.49	-7.57/-7.83	-8.26/-8.29	-8.51/-8.28	-7.76/-7.89	-7.63/-7.31	-7.43/-7.66	-7.97/-7.98	-7.88/-8.08	-7.68/-7.13
Θ(7.5°)	-6.00/-6.44	-6.75/-6.63	-6.83/-7.22	-7.22/-7.71	-7.82/-7.73	-7.68/-7.60	-7.70/-7.70	-7.91/-7.69	-7.72/-7.43	-7.49/-7.47	-7.54/-7.42	-7.26/-7.11	-6.99/-6.87	-6.91/-6.90	-7.33/-6.73	-7.72/-7.78	-7.58/-7.47	-7.03/-6.58	-6.50/-6.63	-6.51/-6.70	-6.76/-7.06	-7.20/-7.11	-6.90/-6.80	-6.54/-6.20
Θ(15°)	-5.00/-5.10	-5.35/-5.61	-5.70/-6.05	-5.97/-5.98	-5.85/-5.65	-5.47/-5.42	-5.33/-5.44	-5.31/-5.12	-5.10/-5.13	-5.27/-5.34	-5.72/-5.64	-5.92/-6.04	-5.99/-5.91	-5.90/-5.96	-6.05/-6.14	-6.24/-6.51	-6.85/-6.88	-6.40/-5.94	-5.30/-4.90	-5.43/-4.82	-5.33/-5.82	-6.18/-5.88	-5.17/-4.65	-4.78/-4.60
Θ(22.5°)	-3.63/-4.01	-5.00/-5.47	-5.93/-5.84	-5.33/-4.59	-4.03/-3.32	-2.75/-2.43	-2.24/-2.23	-2.43/-2.72	-3.10/-3.29	-3.49/-3.66	-4.05/-4.20	-4.23/-4.24	-4.35/-4.74	-5.21/-5.57	-5.45/-5.05	-4.69/-4.63	-4.47/-4.34	-3.98/-3.63	-3.39/-3.27	-3.32/-3.68	-3.81/-4.05	-4.19/-4.23	-4.14/-3.69	-3.46/-3.42
Θ(30°)	-3.34/-4.00	-5.27/-7.20	-7.60/-6.38	-5.11/-4.78	-4.07/-3.60	-3.18/-3.08	-2.66/-2.12	-1.71/-1.42	-1.36/-1.44	-1.61/-1.96	-2.46/-2.61	-2.51/-2.65	-3.09/-3.45	-3.35/-3.14	-3.15/-3.04	-3.04/-3.09	-3.08/-2.41	-2.65/-2.39	-1.77/-1.04	-0.83/-1.32	-1.86/-2.14	-2.27/-2.46	-2.88/-3.30	-3.87/-4.53
Θ(37.5°)	-5.94/-6.39	-8.00/-9.85	-10.35/-8.05	-6.74/-6.09	-5.41/-4.68	-4.49/-3.82	-2.94/-2.11	-1.63/-1.29	-1.07/-0.95	-1.17/-1.20	-1.48/-1.09	-0.73/-0.95	-1.41/-1.85	-2.49/-3.16	-3.61/-3.68	-3.50/-2.04	-1.87/-1.08	-0.42/-0.08	0.35/-0.24	-0.13/-0.45	-2.06/-2.87	-2.87/-2.41	-1.77/-1.88	-3.02/-5.03
Θ(45°)	-8.35/-8.80	-8.43/-8.26	-7.83/-6.48	-6.84/-8.76	-9.03/-9.36	-8.74/-6.59	-5.36/-4.46	-3.48/-2.52	-1.80/-1.28	-1.18/-1.59	-1.87/-1.48	-1.05/-0.60	-0.31/-0.68	-1.57/-1.97	-2.19/-1.96	-1.57/-1.97	-1.99/-1.81	-1.48/-0.62	0.12/-0.60	0.40/-0.47	-1.31/-2.23	-2.52/-2.94	-3.78/-4.37	-5.09/-7.55
Θ(52.5°)	-8.26/-7.84	-6.34/-5.21	-5.08/-6.35	-7.02/-8.99	-10.47/-12.02	-11.51/-8.95	-6.16/-3.88	-2.37/-1.85	-2.02/-1.99	-2.03/-1.86	-1.26/-0.73	-0.21/-0.24	0.30/-0.15	-1.47/-2.72	-1.86/-2.96	-3.59/-4.28	-4.03/-3.13	-1.94/-1.10	-0.85/-0.96	-0.99/-1.36	-2.14/-2.13	-2.37/-3.15	-5.04/-7.70	-9.18/-8.45
Θ(60°)	-4.11/-6.01	-5.36/-3.99	-3.73/-3.68	-5.89/-6.65	-6.32/-6.25	-6.19/-6.20	-5.29/-3.97	-2.87/-1.41	-0.39/-0.13	-0.17/-1.20	-2.29/-2.55	-2.28/-1.86	-1.19/-0.97	-1.47/-2.77	-3.29/-4.23	-5.40/-4.77	-4.41/-3.80	-2.73/-1.99	-1.95/-2.29	-3.94/-3.33	-2.79/-2.28	-2.68/-3.92	-4.59/-4.75	-5.03/-4.21
Θ(67.5°)	-3.98/-5.14	-5.35/-5.10	-5.47/-7.80	-9.25/-7.29	-5.43/-4.00	-3.56/-3.65	-3.68/-3.85	-2.97/-1.37	-0.16/-0.22	-1.62/-2.00	-2.26/-1.47	-0.65/-0.29	-0.41/-1.73	-2.73/-4.43	-5.55/-6.57	-6.80/-5.78	-5.53/-5.63	-6.23/-6.93	-7.18/-5.04	-3.21/-2.90	-3.31/-3.53	-2.97/-2.90	-3.27/-4.18	
Θ(75°)	-4.45/-6.91	-8.88/-10.61	-11.76/-13.93	-11.43/-8.16	-6.07/-4.08	-2.50/-1.34	-0.92/-1.47	-2.59/-2.84	-1.34/-0.10	0.38/-0.02	-0.34/-0.36	-0.82/-1.58	-1.60/-1.48	-1.69/-3.31	-4.15/-5.99	-6.65/-7.64	-9.10/-12.07	-8.89/-7.32	-5.09/-2.30	-1.50/-1.25	-1.43/-2.36	-3.25/-3.22	-2.92/-5.59	
Θ(82.5°)	-10.33/-14.80	-15.06/-15.03	-14.52/-12.63	-11.24/-9.86	-7.58/-5.03	-2.35/-0.66	-0.08/-0.46	-0.32/-2.23	-2.19/-1.20	-0.21/-0.08	0.27/-0.05	0.80/-0.20	-0.42/-0.42	-0.79/-2.03	-3.00/-5.80	-7.44/-8.68	-11.11/-10.39	-10.33/-9.06	-9.18/-5.72	-4.45/-2.39	-0.05/-0.29	-2.18/-4.57	-3.66/-3.20	-4.91/-6.97
Θ(90°)	-11.71/-10.60	-13.77/-15.95	-12.72/-10.86	-11.42/-12.20	-7.94/-4.65	-1.63/-0.82	1.69/-2.41	0.35/-1.15	-1.58/-0.82	-0.54/-0.76	-0.28/-0.65	0.99/-0.85	0.54/-0.12	-0.16/-1.41	-3.16/-5.15	-6.77/-10.53	-8.94/-10.34	-11.38/-13.40	-8.31/-6.14	-2.49/-0.49	-0.08/-1.21	-3.35/-5.78	-5.29/-4.56	-7.79/-12.74
Θ(97.5°)	-8.65/-8.12	-9.37/-12.90	-11.86/-8.95	-11.05/-14.30	-7.42/-3.51	-1.61/-0.11	1.06/-1.41	0.69/-0.12	-0.40/-0.28	-0.15/-0.52	-0.67/-0.25	0.51/-0.76	0.56/-0.27	-0.50/-2.46	-4.13/-6.16	-7.02/-7.83	-10.65/-11.43	-11.76/-10.07	-5.49/-3.76	-3.10/-1.19	-1.13/-2.46	-5.70/-7.62	-7.35/-6.59	-7.35/-8.71
Θ(105°)	-7.15/-8.22	-12.39/-12.45	-14.75/-12.83	-11.82/-13.90	-7.37/-2.84	-1.48/-0.05	0.40/-0.08	-0.45/-0.99	-1.67/-0.64	-0.12/-0.38	-0.83/-0.52	-0.64/-0.32	-0.93/-0.71	-1.19/-2.16	-2.92/-4.50	-5.05/-6.74	-9.95/-8.57	-5.44/-3.47	-1.96/-4.08	-5.55/-6.09	-6.79/-5.28	-6.67/-6.92		
Θ(112.5°)	-6.68/-6.10	-8.40/-13.28	-13.84/-11.38	-8.17/-11.44	-10.37/-4.19	-2.29/-1.56	-1.65/-2.34	-3.18/-4.00	-2.19/-0.61	-0.94/-1.49	-1.90/-0.60	-1.35/-1.68	-1.93/-1.22	-1.66/-3.18	-4.33/-5.41	-7.17/-7.03	-7.79/-10.91	-10.05/-9.70	-7.28/-5.43	-5.96/-4.82	-4.54/-5.94	-6.21/-7.91	-6.19/-6.63	-7.86/-7.98
Θ(120°)	-6.86/-7.72	-6.77/-9.68	-12.22/-10.20	-13.36/-12.25	-9.95/-7.78	-5.06/-4.39	-4.15/-5.31	-8.71/-8.49	-5.43/-3.41	-2.07/-2.09	-1.60/-0.91	-0.85/-1.61	-3.03/-3.30	-2.88/-2.23	-3.47/-6.37	-6.30/-6.58	-5.94/-7.27	-6.84/-9.51	-6.08/-5.03	-8.61/-7.58	-5.98/-6.26	-6.78/-7.72	-8.45/-9.09	-13.13/-9.26
Θ(127.5°)	-8.24/-7.85	-7.57/-13.52	-13.36/-9.49	-9.33/-12.54	-11.44/-8.47	-7.85/-7.23	-8.11/-11.01	-13.53/-11.91	-8.09/-5.18	-4.24/-3.63	-1.92/-1.41	-1.24/-3.61	-3.81/-4.74	-3.87/-2.25	-3.57/-6.17	-9.16/-0.77	-5.84/-4.88	-6.71/-8.39	-5.36/-6.41	-10.34/-6.24	-5.22/-6.62	-7.49/-11.95	-12.67/-10.03	-13.82/-9.34
Θ(135°)	-7.98/-8.11	-8.29/-9.30	-11.11/-9.30	-6.87/-7.02	-10.04/-13.88	-13.64/-11.78	-9.89/-9.09	-11.17/-13.19	-8.85/-8.60	-6.88/-6.46	-6.81/-6.24	-4.21/-3.88	-5.99/-8.37	-4.97/-4.42	-6.32/-11.84	-10.59/-9.39	-7.26/-6.99	-10.44/-9.92	-7.28/-6.10	-7.92/-15.16	-9.36/-8.98	-12.98/-14.91	-10.05/-12.25	-10.34/-10.67
Θ(142.5°)	-8.21/-8.38	-6.76/-8.13	-12.48/-13.50	-14.03/-14.57	-14.03/-12.34	-13.02/-13.24	-11.92/-11.57	-11.31/-11.55	-10.94/-11.02	-9.61/-10.44	-9.46/-7.16	-6.21/-6.15	-7.92/-11.02	-10.12/-7.64	-9.91/-14.97	-11.87/-9.86	-6.87/-9.35	-10.73/-14.24	-9.36/-8.15	-8.73/-11.38	-13.06/-14.87	-10.76/-10.35	-12.64/-13.30	-13.01/-8.88
Θ(150°)	-7.77/-6.83	-6.17/-8.11	-12.73/-15.84	-14.33/-13.80	-13.24/-12.21	-10.54/-10.52	-12.32/-16.11	-15.12/-15.07	-15.34/-11.57	-9.25/-8.33	-7.81/-9.79	-12.01/-11.67	-12.13/-13.99	-11.02/-11.16	-10.81/-10.52	-12.55/-10.23	-7.43/-8.71	-11.01/-12.23	-10.16/-8.87	-9.16/-11.87	-15.74/-16.38	-13.25/-10.93	-11.16/-12.65	-12.04/-9.73
Θ(157.5°)	-7.00/-5.27	-6.24/-9.60	-12.57/-15.54	-15.43/-15.02	-13.85/-14.96	-15.48/-15.88	-15.18/-14.61	-15.70/-14.22	-10.91/-9.42	-8.37/-7.48	-7.74/-9.79	-12.47/-14.70	-15.74/-12.54	-9.29/-8.60	-9.56/-11.09	-12.97/-12.58	-11.87/-11.90	-13.17/-14.67	-12.98/-13.36	-14.85/-15.41	-14.94/-15.37	-14.41/-12.17	-9.24/-7.85	
Θ(165°																								

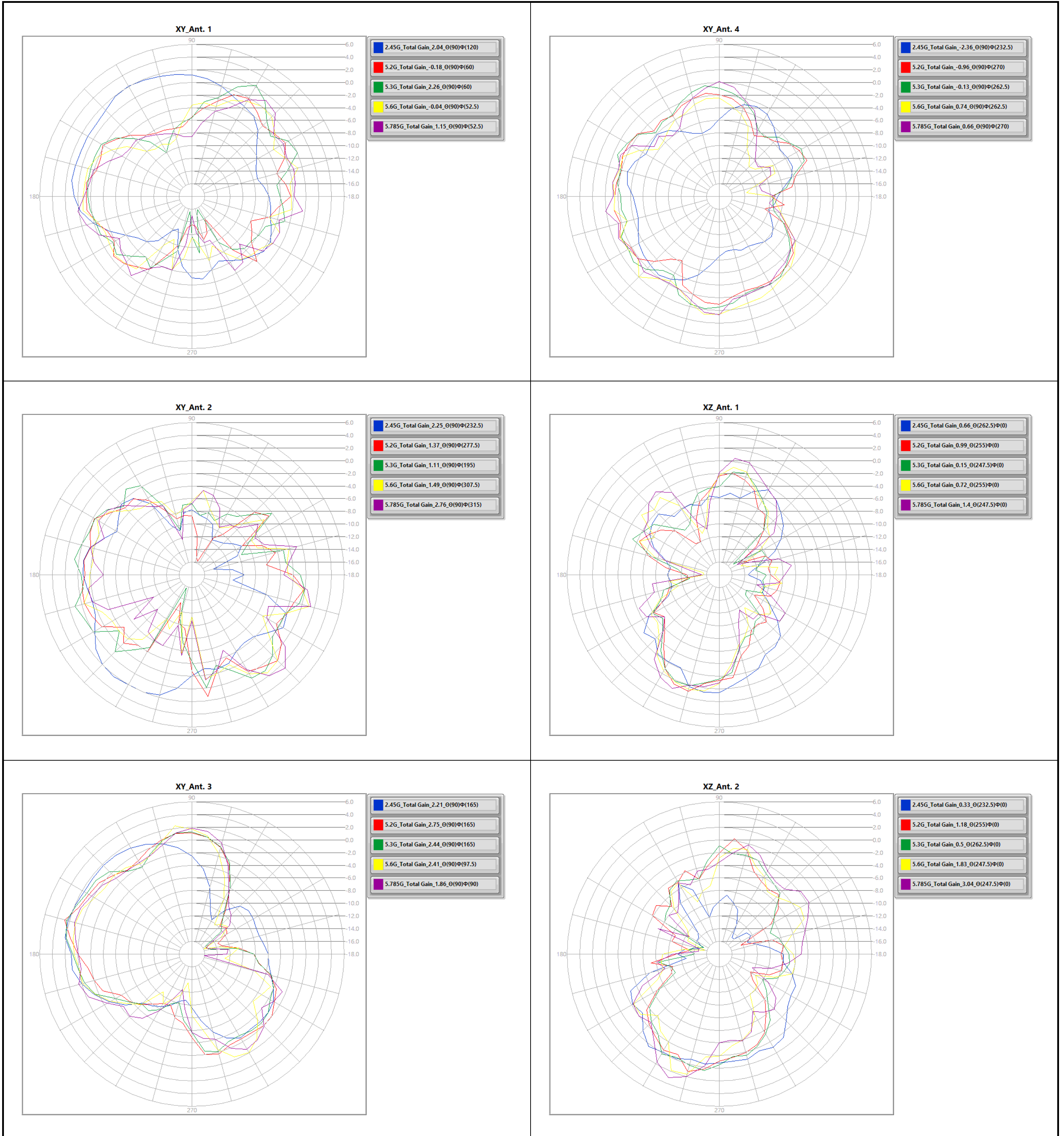


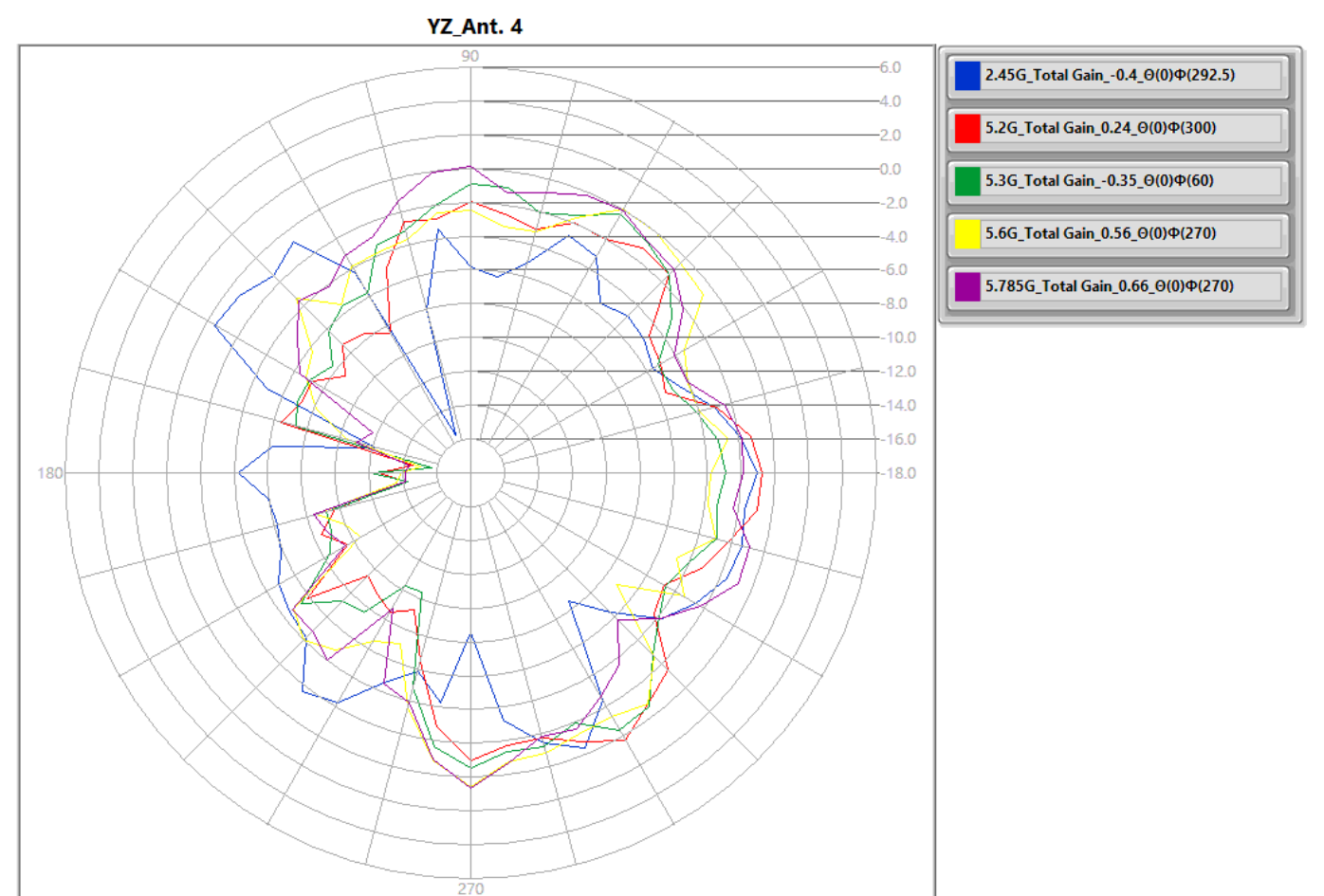
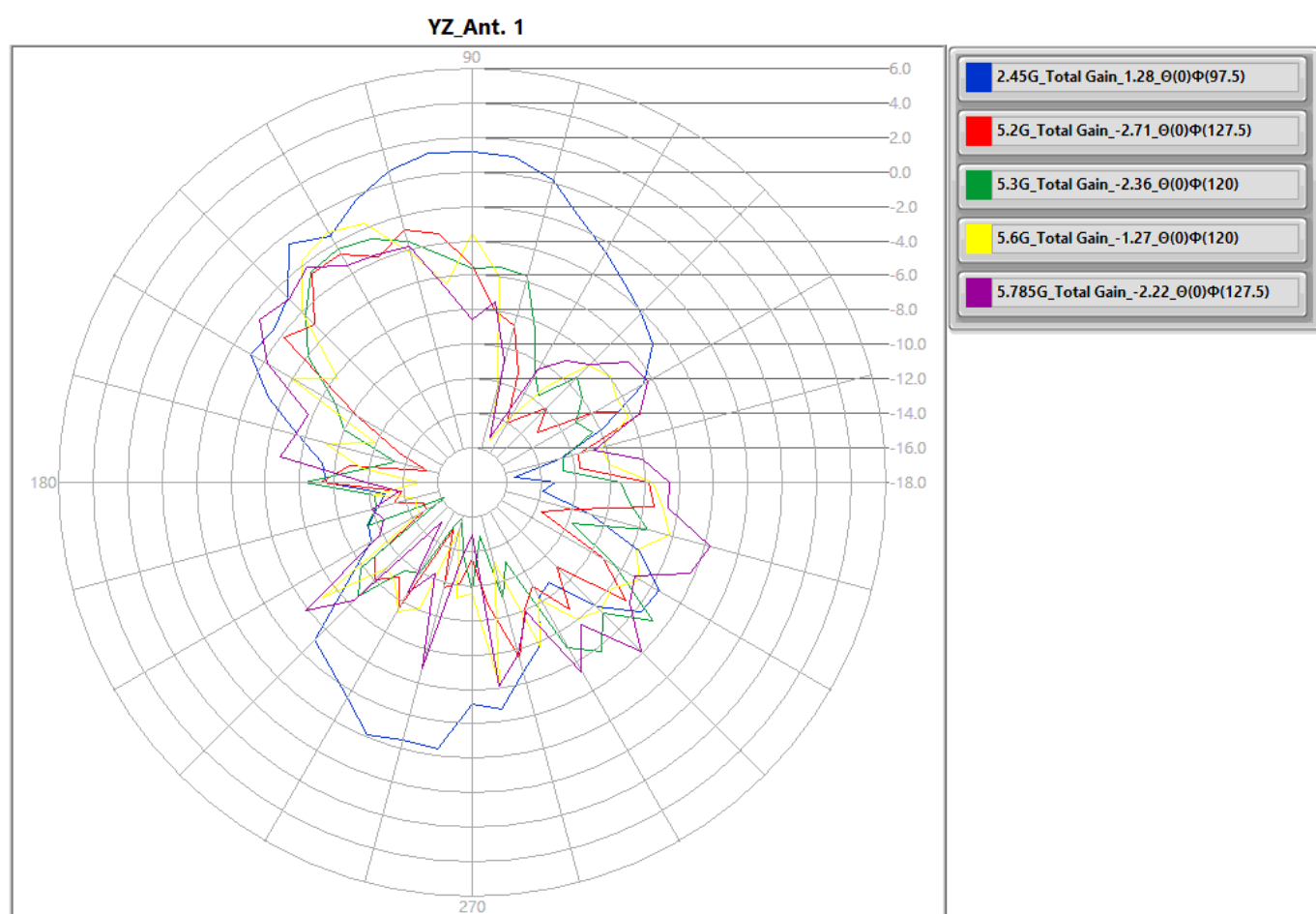
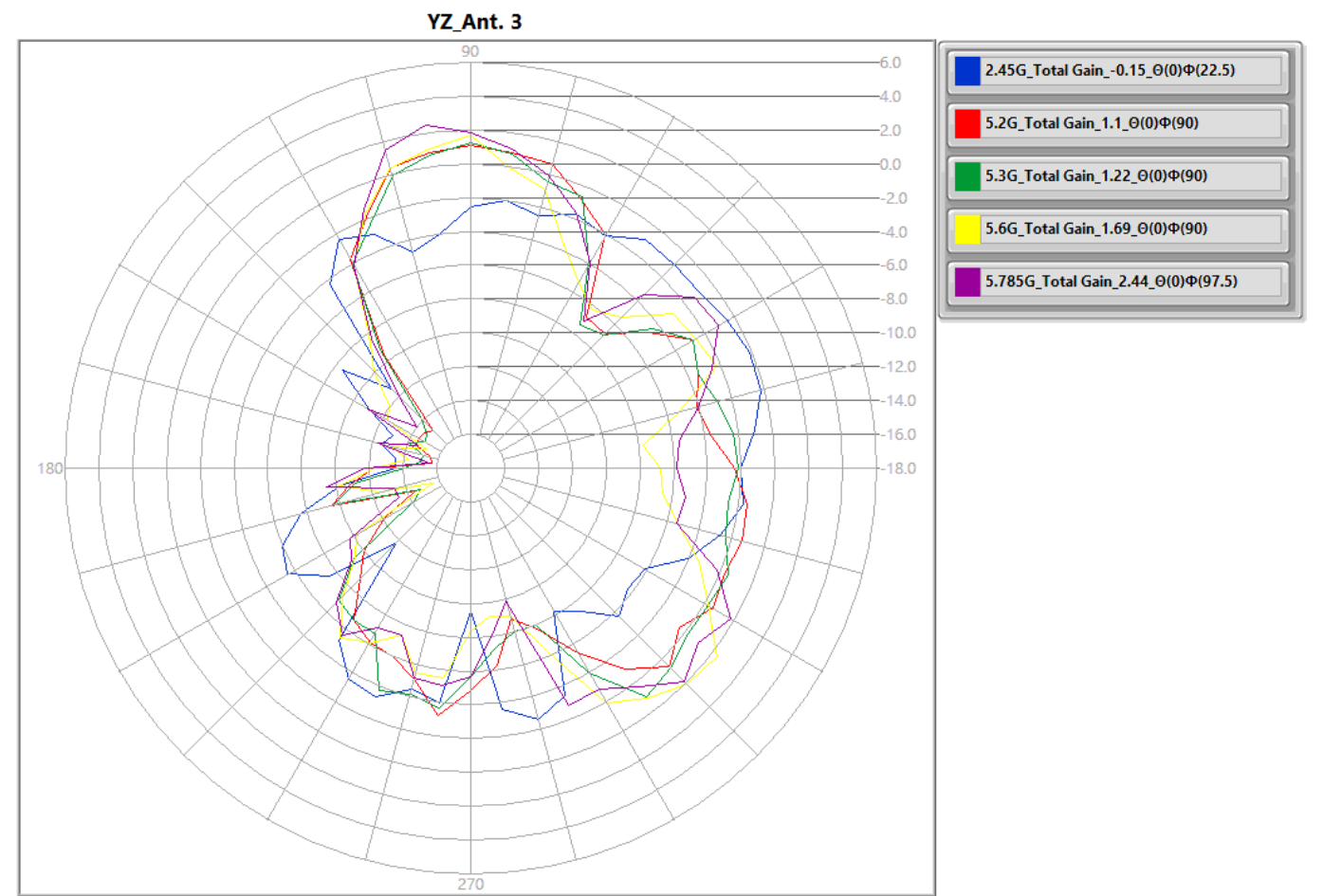
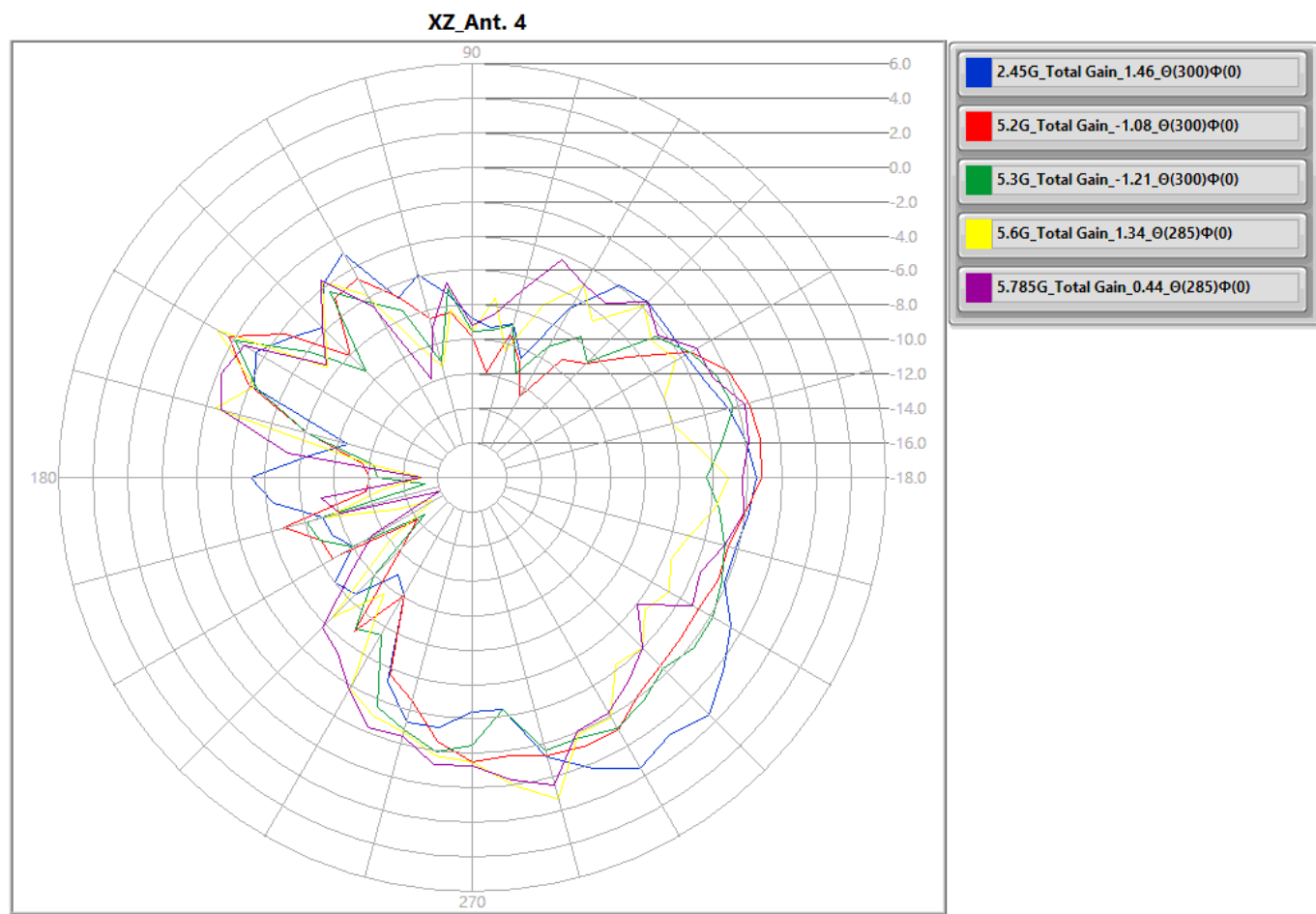
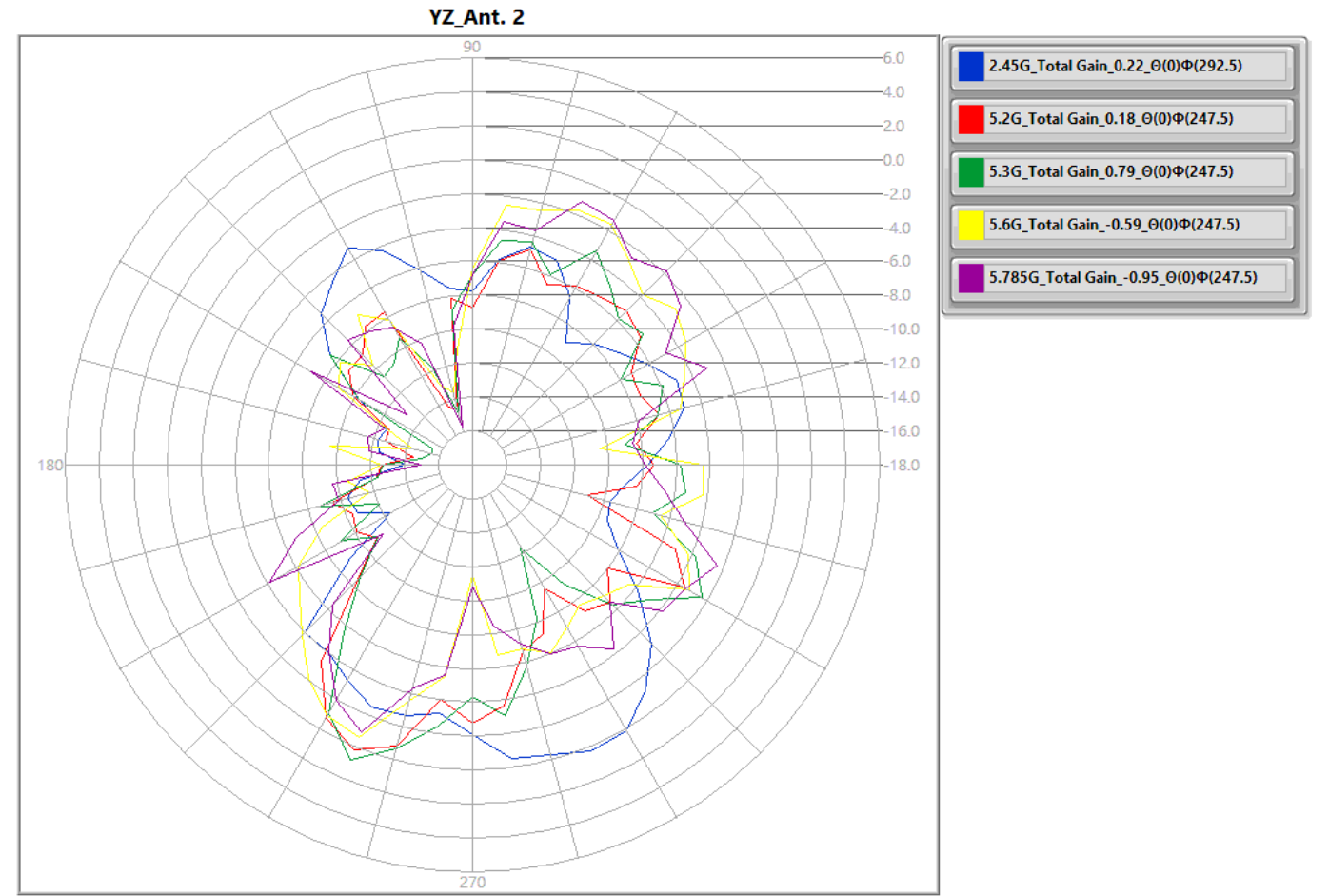
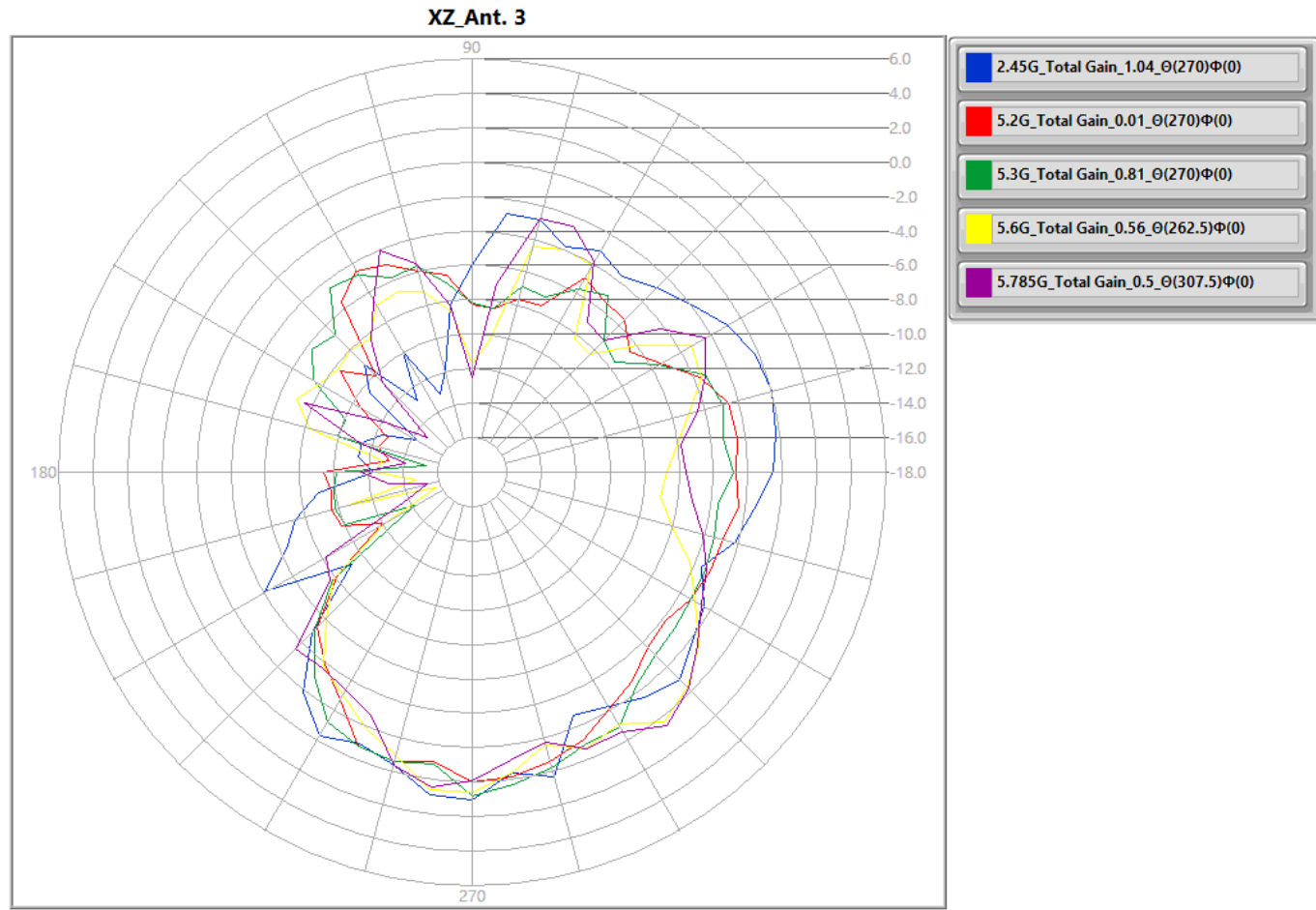
Antenna Pattern of 2.4GHz and 5GHz UNII 1~3

Appendix D

Θ (165°)	-8.04/-9.08	-10.00/-10.17	-9.67/-8.21	-7.13/-6.46	-5.90/-5.35	-5.29/-5.64	-6.41/-7.48	-8.27/-8.84	-9.50/-10.90	-11.37/-11.51	-11.25/-10.35	-8.43/-7.01	-6.70/-6.85	-7.47/-8.97	-11.21/-12.99	-12.40/-10.09	-8.63/-9.04	-8.41/-8.90	-9.71/-11.14	-12.50/-11.45	-9.64/-8.47	-8.97/-10.18	-10.31/-9.45	-9.19/-8.55
Θ (172.5°)	-11.54/-10.84	-10.53/-11.18	-11.38/-11.41	-12.14/-13.86	-14.86/-15.38	-14.60/-14.42	-14.56/-15.15	-15.78/-14.87	-15.55/-15.58	-15.51/-14.94	-14.65/-15.16	-14.96/-12.85	-11.75/-11.94	-12.79/-15.47	-15.60/-15.58	-14.64/-15.04	-13.69/-13.12	-12.63/-13.46	-14.07/-14.24	-13.77/-13.29	-12.84/-12.52	-12.45/-12.72	-13.89/-15.53	-15.14/-14.71
Θ (180°)	-12.04/-12.33	-12.92/-13.34	-13.59/-14.71	-13.55/-12.11	-11.25/-11.07	-11.43/-11.98	-12.57/-13.29	-13.81/-14.47	-15.00/-14.99	-15.20/-14.42	-14.59/-15.05	-15.44/-15.77	-15.38/-16.21	-15.15/-14.99	-14.58/-13.85	-13.80/-13.73	-13.70/-13.73	-13.87/-14.35	-14.50/-14.09	-15.05/-15.27	-15.73/-14.63	-15.15/-13.81	-13.37/-13.50	-13.15/-12.59
Freq(Hz)	5.3GPol.	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°)	-4.43/-4.09	-4.05/-3.90	-3.65/-3.20	-2.96/-2.74	-2.78/-2.86	-2.83/-2.77	-2.92/-2.99	-2.95/-3.17	-3.33/-3.42	-3.50/-3.52	-3.33/-3.11	-2.89/-2.66	-2.67/-2.78	-2.32/-3.09	-3.15/-3.27	-3.37/-3.51	-3.48/-3.49	-3.50/-3.75	-3.79/-4.13	-4.28/-4.26	-4.25/-4.28	-4.42/-4.68	-4.61/-4.62	
Θ (7.5°)	-3.49/-3.13	-3.20/-3.42	-3.34/-3.23	-3.35/-3.29	-3.24/-3.07	-2.93/-2.97	-3.25/-3.38	-3.36/-3.53	-3.99/-4.16	-4.29/-4.25	-4.41/-4.35	-4.14/-3.92	-3.57/-3.15	-3.01/-2.87	-2.75/-2.76	-2.73/-3.05	-3.18/-3.25	-3.27/-3.16	-3.30/-3.52	-3.57/-3.53	-3.52/-3.48	-3.48/-3.64	-3.69/-3.77	-3.47/-3.68
Θ (15°)	-2.27/-2.28	-2.60/-2.63	-2.90/-3.03	-3.49/-3.79	-3.71/-3.96	-4.23/-4.15	-4.18/-4.05	-3.73/-3.52	-3.50/-3.40	-3.40/-3.61	-3.84/-4.06	-4.01/-3.56	-2.85/-2.35	-2.12/-1.92	-1.84/-2.00	-2.41/-2.95	-3.39/-3.53	-3.46/-3.14	-2.95/-2.88	-2.66/-2.41	-2.17/-1.96	-1.79/-1.72	-1.64/-1.73	-1.85/-2.23
Θ (22.5°)	-2.64/-3.19	-3.40/-3.60	-4.09/-4.94	-5.95/-5.59	-5.32/-5.38	-5.05/-5.00	-5.09/-5.25	-4.99/-5.12	-4.95/-4.65	-4.14/-4.01	-4.08/-4.02	-3.42/-2.69	-2.32/-2.28	-2.44/-2.77	-4.51/-4.83	-5.02/-4.81	-4.31/-4.06	-4.06/-4.00	-3.73/-3.50	-3.28/-3.05	-2.72/-2.54	-2.27/-2.25	-2.25/-2.70	
Θ (30°)	-3.38/-4.60	-5.68/-6.61	-8.18/-9.98	-10.27/-7.66	-6.52/-5.85	-5.46/-5.62	-5.25/-5.30	-5.02/-4.71	-4.36/-4.02	-3.77/-3.53	-3.62/-3.60	-3.04/-2.25	-1.86/-1.79	-2.09/-2.56	-2.88/-3.04	-3.48/-3.73	-3.24/-2.72	-2.86/-3.69	-4.66/-4.95	-4.19/-3.35	-3.00/-2.98	-2.81/-2.41	-2.26/-2.37	-2.60/-3.01
Θ (37.5°)	-4.58/-5.98	-7.91/-9.84	-10.89/-10.89	-10.54/-9.38	-8.36/-6.42	-5.09/-3.63	-3.03/-2.82	-2.91/-2.64	-2.20/-1.90	-1.75/-1.68	-1.92/-2.45	-2.66/-2.09	-1.78/-1.90	-1.78/-1.84	-1.20/-1.99	-3.23/-3.77	-4.85/-6.88	-7.51/-5.55	-3.94/-4.09	-4.91/-4.75	-3.40/-2.28	-1.91/-1.77	-2.01/-2.71	-3.57/-4.43
Θ (45°)	-8.57/-10.98	-12.32/-11.58	-9.11/-6.49	-4.84/-4.01	-3.43/-2.83	-2.23/-1.56	-1.38/-1.06	-0.88/-0.94	-1.17/-0.87	-0.63/-0.30	0.14/-0.45	-1.05/-1.43	-2.30/-2.36	-1.32/-0.84	-0.93/-1.05	-1.27/-2.15	-2.66/-1.34	-1.00/-1.85	-2.72/-2.89	-2.74/-2.85	-3.34/-3.51	-3.34/-3.06	-3.34/-4.38	-5.59/-7.15
Θ (52.5°)	-7.67/-8.92	-9.88/-8.98	-7.08/-5.42	-5.12/-4.43	-3.62/-2.90	-2.62/-1.57	-0.84/-0.74	-0.85/-0.94	-1.27/-1.42	-0.95/-0.51	0.350/3.34	-0.19/-0.92	-1.66/-1.36	-1.06/-0.39	-0.21/-0.65	-2.04/-2.10	-2.01/-2.03	-1.21/-0.64	-0.61/-1.01	-2.02/-3.10	-3.16/-3.36	-4.12/-5.01	-5.85/-6.45	-6.41/-7.10
Θ (60°)	-9.23/-10.79	-10.33/-8.66	-7.38/-6.31	-5.96/-5.47	-4.56/-3.34	-2.16/-1.07	-0.350/1.11	0.28/-0.07	-0.86/-1.94	-1.40/-0.62	0.571/1.08	1.270/4.31	-1.21/-1.50	-2.32/-0.58	0.180/3.39	0.14/-1.02	-1.26/-0.90	-0.60/-0.16	-0.40/-1.59	-2.62/-4.12	-6.15/-1.04	-7.42/-7.73	-8.92/-8.46	-8.28/-8.19
Θ (67.5°)	-11.48/-12.39	-12.45/-11.06	-9.01/-8.14	-7.75/-6.77	-6.47/-5.22	-3.55/-2.23	-1.52/-1.23	-1.51/-2.22	-3.14/-4.67	-3.28/-1.11	0.240/6.66	0.32/-0.18	-1.70/-1.40	-1.610/0.98	1.622/2.28	0.670/0.15	-1.31/-1.37	-1.67/-2.01	-1.98/-2.91	-4.06/-5.13	-5.49/-5.20	-5.79/-7.26	-9.43/-12.61	-13.36/-11.51
Θ (75°)	-8.82/-13.08	-13.55/-9.60	-6.66/-6.47	-8.93/-9.12	-8.23/-6.24	-4.77/-3.32	-2.11/-1.63	-1.86/-2.57	-2.83/-3.13	-2.49/-1.10	-0.47/-0.21	-0.93/-0.13	-1.62/-1.19	-2.74/-0.14	0.471/1.14	0.42/-1.14	-1.89/-1.54	-1.21/-1.15	-1.24/-1.53	-3.34/-4.53	-5.18/-6.77	-6.22/-6.82	-8.41/-8.44	-5.96/-7.33
Θ (82.5°)	-9.37/-12.80	-9.98/-6.14	-4.71/-5.45	-5.36/-5.30	-5.26/-4.87	-3.33/-1.46	-1.01/-1.26	-2.03/-3.21	-4.01/-3.42	-2.67/-0.62	-0.50/-1.11	-3.33/-3.07	-4.42/-2.75	-1.51/0.05	3.100/5.57	-0.70/-2.54	-2.20/-0.82	-0.66/-0.40	-1.38/-4.01	-4.83/-4.26	-4.40/-3.93	-4.62/-5.29	-5.89/-5.40	-4.98/-8.02
Θ (90°)	-9.56/-7.26	-6.17/-3.53	-3.05/-4.10	-4.80/-6.23	-5.76/-3.75	-2.45/-1.57	-0.88/-0.41	-1.02/-1.96	-3.18/-3.19	-3.81/-1.87	-1.26/-0.66	-1.95/-1.78	-2.49/-2.42	-2.94/-1.30	-1.71/-3.33	-3.63/-1.22	-0.37/-0.13	-0.56/-1.09	-2.19/-2.31	-1.93/-2.10	-2.95/-3.84	-5.40/-7.08	-9.05/-9.48	
Θ (97.5°)	-7.01/-6.12	-4.93/-3.16	-3.88/-5.56	-6.98/-7.75	-7.84/-6.62	-5.39/-2.81	-2.05/-2.22	-2.42/-2.40	-3.40/-3.15	-4.03/-2.70	-3.29/-4.46	-4.30/-4.22	-1.96/-3.21	-3.57/-2.63	-2.51/-2.68	-2.85/-3.86	-5.31/-3.00	-1.89/-0.45	-1.68/-0.67	-1.44/-1.43	-2.04/-1.66	-3.06/-5.05	-8.95/-12.59	-8.28/-8.80
Θ (105°)	-11.04/-9.37	-5.96/-2.69	-2.23/-3.88	-6.19/-7.02	-7.80/-6.25	-5.67/-4.05	-3.14/-3.10	-3.41/-3.18	-4.41/-4.22	-5.49/-4.19	-3.22/-2.77	-3.28/-2.91	-2.85/-1.47	-2.29/-2.98	-3.71/-3.96	-6.35/-6.49	-9.74/-5.51	-5.45/-3.53	-4.81/-5.67	-2.84/-2.54	-4.99/-7.66	-7.13/-3.07	-9.29/-8.71	
Θ (112.5°)	-7.58/-6.30	-3.87/-1.80	-2.86/-4.40	-8.76/-6.63	-6.18/-4.99	-4.50/-3.94	-3.43/-3.57	-3.77/-4.63	-5.71/-5.27	-5.38/-3.98	-4.46/-6.01	-5.35/-5.86	-3.57/-4.18	-6.60/-5.85	-5.86/-8.03	-8.41/-5.45	-5.23/-5.75	-7.82/-9.22	-10.35/-12.99	-10.57/-5.23	-2.62/-1.91	-3.63/-3.98	-4.19/-9.59	-7.35/-9.47
Θ (120°)	-6.37/-5.09	-3.40/-4.05	-4.62/-9.45	-9.45/-8.51	-6.46/-5.34	-4.49/-4.98	-5.74/-5.26	-5.20/-6.50	-6.33/-7.55	-6.57/-5.87	-3.92/-4.57	-5.07/-5.67	-7.46/-6.21	-8.25/-4.83	-3.75/-4.24	-8.31/-5.70	-5.34/-3.57	-9.54/-10.57	-10.25/-10.18	-4.36/-3.14	-2.72/-5.57	-10.39/-4.87	-2.74/-5.11	-5.29/-4.24
Θ (127.5°)	-4.42/-3.94	-3.77/-3.31	-3.58/-3.70	-5.34/-6.19	-8.23/-8.29	-8.83/-6.51	-5.56/-6.93	-6.23/-5.19	-6.53/-7.31	-9.02/-6.89	-3.28/-5.44	-6.56/-6.83	-9.64/-5.01	-7.72/-4.94	-5.63/-13.39	-5.71/-5.65	-3.11/-3.61	-5.38/-0.42	-7.61/-3.70	-3.34/-3.72	-1.32/-2.23	-9.86/-8.39	-3.77/-6.86	-4.80/-4.17
Θ (135°)	-9.30/-5.37	-4.77/-4.71	-3.23/-3.32	-4.06/-6.80	-7.98/-8.93	-7.92/-7.28	-6.14/-4.37	-4.54/-5.03	-4.11/-4.87	-7.31/-11.20	-10.79/-9.41	-8.51/-6.59	-9.49/-9.95	-9.12/-7.80	-3.16/-6.99	-3.14/-5.45	-5.67/-7.21	-7.28/-7.00	-4.71/-6.28	-4.05/-4.98	-6.39/-4.44	-5.85/-10.26	-10.22/-7.60	
Θ (142.5°)	-6.08/-10.09	-7.58/-8.10	-7.36/-6.23	-5.59/-5.59	-5.65/-5.67	-7.44/-8.00	-7.66/-7.17	-5.20/-3.59	-3.58/-4.57	-6.71/-8.95	-9.51/-10.93	-9.17/-11.17	-14.52/-13.71	-15.73/-10.91	-5.93/-6.85	-9.41/-8.60	-9.37/-8.01	-3.80/-4.24	-5.32/-4.40	-2.94/-5.48	-11.21/-9.04	-7.91/-6.04	-5.41/-4.38	-4.23/-4.56
Θ (150°)	-2.14/-3.37	-8.12/-8.67	-10.95/-10.53	-7.57/-6.47	-3.75/-3.71	-3.96/-5.14	-7.00/-8.20	-8.89/-8.67	-8.75/-8.39	-8.83/-9.36	-11.01/-10.55	-9.66/-9.91	-9.92/-8.61	-8.50/-9.67	-9.95/-8.97	-8.59/-11.87	-14.74/-9.34	-7.82/-8.47	-6.43/-8.45	-9.38/-11.86	-15.32/-12.08	-8.17/-5.26	-3.37/-2.65	-1.99/-3.71
Θ (157.5°)	-4.51/-7.18	-10.57/-11.89	-10.77/-10.86	-12.18/-11.46	-8.68/-6.92	-6.19/-5.90	-6.87/-6.64	-10.89/-15.17	-15.20/-13.90	-12.68/-11.88	-10.93/-10.53	-11.03/-9.95	-8.42/-7.69	-7.71/-7.44	-7.26/-8.45	-11.68/-13.43	-8.66/-9.96	-5.60/-7.22	-9.06/-10.50	-10.53/-9.74	-6.95/-5.02	-5.67/-5.94	-4.98/-4.44	-3.50/-3.44
Θ (165°)	-8.15/-9.05	-9.88/-10.70	-10.37/-9.34	-8.30/-7.73	-7.16/-6.47	-6.49/-6.81	-7.33/-7.93	-8.59/-8.98	-9.84/-11.13	-13.05/-12.48	-11.24/-10.55	-9.45/-8.49	-8.05/-8.15	-8.59/-9.85	-12.33/-14.67	-13.89/-10.55	-8.29/-7.44	-7.52/-8.28	-9.16/-10.32	-10.46/-8.74	-7.27/-6.69	-7.72/-9.61	-9.66/-8.51	-7.93/-8.00
Θ (172.5°)	-12.23/-11.67	-12.16/-12.77	-14.44/-15.06	-15.90/-15.21	-15.64/-15.12	-15.41/-15.08	-15.66/-15.89	-15.85/-15.31	-15.87/-14.96	-13.34/-13.28	-14.22/-16.02	-15.79/-15.40	-15.21/-13.25	-13.23/-13.98	-14.91/-14.73	-13.78/-13.79	-13.23/-13.15	-13.51/-14.27	-14.29/-15.34	-14.69/-13.87	-13.39/-14.15	-14.91/-15.64	-14.86/-15.56	-15.62/-14.71
Θ (180°)	-12.47/-11.74	-11.54/-12.12	-13.59/-14.59	-14.36/-12.61	-12.46/-12.45	-11.98/-12.15	-12.09/-11.97	-12.28/-12.43	-12.37/-12.55	-12.67/-13.26	-14.22/-15.13	-15.52/-15.59	-15.98/-15.18	-15.20/-15.28	-15.46/-14.66	-14.38/-14.29	-12.95/-13.10	-13.10/-14.20	-14.83/-15.67	-15.13/-15.60	-15.15/-15.05	-15.89/-16.13	-15.18/-15.53	-14.08/-13.68
Freq(Hz)	5.6GPol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-3.12/-3.12	-3.25/-3.44	-3.31/-3.39	-3.71/-3.81	-3.64/-3.67	-3.79/-3.95	-4.20/-4.20	-4.36/-4.34	-4.32/-4.29	-4.08/-3.84	-3.78/-3.54	-3.46/-3.38	-3.49/-3.38	-4.14/-4.30	-4.41/-4.48	-4.48/-4.48	-4.48/-4.32	-4.24/-4.10	-3.86/-4.04	-4.31/-4.31	-4.23/-4.41	-4.30/-4.34	-4.38/-4.52	-4.41/-4.87
Θ (7.5°)	-4.75/-4.24	-4.09/-3.85	-3.26/-2.97	-2.76/-2.71	-2.49/-2.35	-2.33/-2.65	-2.61/-2.63	-2.25/-2.32	-2.49/-2.56	-2.72/-2.84	-3.01/-3.11	-3.21/-3.47	-3.81/-3.98	-4.14/-4.30	-4.41/-4.48	-4.48/-4.48	-4.48/-4.32	-4.24/-4.10	-3.86/-4.04	-4.31/-4.31	-4.23/-4.41	-4.30/-4.34	-4.38/-4.52	-4.41/-4.87
Θ (15°)	-6.03/-5.04	-4.61/-4.37	-4.13/-4.06	-4.30/-4.43	-3.93/-4.19	-4.38/-4.13	-4.02/-3.86	-3.56/-3.69	-3.80/-3.69	-3.48/-3.15	-2.89/-3.02	-3.34/-4.14	-4.95/-5.16	-5.14/-4.77	-4.11/-3.49	-3.02/-2.								

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







Antenna Pattern of 6GHz UNII 5~6

Appendix E

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°)	-7.401-7.66	-6.601-6.49	-6.551-6.76	-6.661-6.60	-6.291-6.60	-5.721-5.86	-6.421-6.76	-6.571-6.38	-6.431-6.63	-6.681-6.65	-6.141-5.90	-5.801-5.87	-6.111-6.43	-6.441-6.51	-6.391-5.93	-5.801-5.74	-5.531-5.36	-5.561-6.45	-7.521-7.66	-7.311-7.38	-7.851-8.14	-7.931-7.47	-7.271-7.16	-6.971-6.96
Θ(7.5°)	-5.751-5.66	-5.631-5.94	-5.881-6.01	-5.981-5.78	-5.791-5.61	-5.411-6.04	-6.911-7.32	-7.511-7.98	-8.421-8.67	-8.701-8.66	-8.521-8.44	-8.771-8.98	-8.841-8.22	-7.871-7.38	-7.201-6.67	-6.301-5.92	-5.381-4.99	-5.141-5.73	-5.961-5.37	-4.801-4.73	-5.021-5.40	-5.891-5.68	-5.461-5.36	-5.071-5.23
Θ(15°)	-4.931-5.17	-5.481-5.30	-4.981-4.66	-4.431-4.68	-5.091-5.39	-5.421-5.45	-5.541-5.54	-5.651-5.33	-5.231-5.14	-5.061-5.23	-5.631-6.47	-7.621-9.10	-10.041-10.50	-9.911-9.08	-8.431-7.93	-7.491-6.87	-6.181-5.78	-6.031-6.88	-7.741-7.78	-6.791-6.18	-5.411-5.34	-5.301-5.06	-5.191-5.03	-4.621-4.73
Θ(22.5°)	-5.981-5.69	-5.341-5.88	-7.061-7.62	-7.331-6.62	-6.011-5.31	-4.521-4.38	-4.651-5.23	-5.861-6.25	-6.241-6.18	-5.941-5.67	-5.711-5.77	-5.491-5.59	-6.971-7.46	-6.281-6.03	-5.481-6.84	-7.951-7.89	-7.901-8.61	-6.961-11.24	-12.171-13.65	-13.831-12.02	-11.011-10.30	-9.231-6.75	-6.561-7.71	-7.781-7.26
Θ(30°)	-7.241-6.80	-5.771-4.71	-4.671-5.19	-6.111-7.19	-7.011-4.94	-3.851-3.54	-4.031-4.71	-5.231-5.71	-6.411-6.86	-7.091-6.59	-5.631-5.13	-4.681-4.66	-4.791-4.42	-4.161-4.49	-5.451-6.42	-6.311-5.31	-4.761-5.30	-5.641-6.19	-6.681-7.41	-8.241-8.72	-9.641-9.77	-9.281-7.93	-5.221-4.94	-5.771-7.20
Θ(37.5°)	-6.871-7.06	-6.611-5.32	-4.801-5.39	-5.481-5.13	-3.001-1.67	-1.361-1.20	-1.451-2.27	-3.371-4.10	-4.731-5.82	-5.681-4.69	-3.621-3.50	-4.171-4.51	-3.721-2.20	-1.911-3.52	-6.361-6.88	-6.311-6.35	-6.931-5.50	-4.791-5.18	-6.601-8.11	-8.951-8.77	-7.011-7.74	-12.371-8.47	-6.081-3.69	-4.391-6.80
Θ(45°)	-6.371-7.10	-7.221-6.61	-5.111-4.27	-3.571-2.88	-1.751-1.30	-1.061-1.37	-1.601-2.10	-3.151-4.60	-5.011-4.07	-2.941-1.78	-1.551-1.21	-1.521-2.08	-2.301-1.23	-0.181-0.80	-3.081-4.45	-5.911-7.18	-8.191-10.17	-10.721-10.11	-12.321-14.37	-15.181-13.29	-10.721-4.22	-10.611-8.28	-4.361-2.97	-2.991-6.43
Θ(52.5°)	-4.041-7.18	-7.731-7.55	-5.811-4.15	-2.701-2.29	-1.781-1.22	-1.311-1.48	-1.771-1.87	-2.811-4.60	-5.691-4.82	-2.681-0.75	0.0801-0.4	-1.201-2.69	-2.141-0.37	-0.031-2.78	-5.451-7.06	-5.581-6.78	-6.941-5.86	-5.631-6.66	-10.651-11.04	-9.731-7.27	-7.301-7.79	-6.041-6.18	-3.751-1.80	-1.291-4.00
Θ(60°)	-2.081-3.66	-5.311-5.65	-5.551-3.86	-2.021-1.03	-0.431-0.46	-0.661-0.90	-1.501-2.33	-3.201-3.61	-4.201-1.09	-0.921-1.33	-1.211-2.22	-1.771-1.08	-0.461-3.31	-4.781-4.59	-8.341-10.60	-10.401-6.66	-6.701-8.52	-6.401-6.80	-10.861-12.34	-10.611-6.78	-6.131-4.10	-4.301-4.83	-2.401-5.43	
Θ(67.5°)	-1.881-4.00	-6.381-7.69	-7.981-7.35	-6.381-3.16	-0.791-0.15	-0.241-1.30	-3.641-5.44	-5.401-4.66	-3.561-1.42	-1.191-1.54	-2.511-2.72	-1.831-1.20	-0.7701-56	-0.451-1.32	-2.771-3.54	-5.891-7.74	-12.681-14.20	-12.321-8.97	-9.921-10.26	-11.181-11.59	-8.401-7.65	-3.251-3.55	-2.551-2.51	-2.491-1.60
Θ(75°)	-1.371-1.78	-5.721-7.22	-6.861-7.94	-8.871-5.86	-2.701-0.13	-0.331-2.21	-4.471-4.62	-6.881-5.72	-4.561-1.75	-1.471-2.20	-3.611-2.95	-1.041-0.14	-0.1101-70	0.511-1.29	-5.671-5.24	-6.121-10.65	-9.461-9.44	-7.041-8.78	-7.341-4.25	-7.791-10.17	-14.271-8.37	-7.251-6.37	-4.561-2.57	-2.911-2.13
Θ(82.5°)	-5.711-4.49	-3.971-6.78	-7.361-5.98	-5.201-4.80	-3.961-2.75	-2.891-2.09	-4.261-7.28	-9.131-7.17	-5.681-3.66	-2.531-1.45	-1.821-2.99	-1.311-0.72	0.421-80	1.8701-11	-0.811-0.40	-1.421-3.76	-3.671-3.78	-5.851-5.57	-5.771-5.79	-6.161-8.41	-7.311-6.79	-7.201-4.65	-2.261-3.71	-5.651-4.87
Θ(90°)	-6.411-9.16	-9.841-8.03	-8.131-9.99	-8.331-4.15	-2.951-3.36	-5.741-7.90	-9.211-9.03	-6.681-8.06	-6.111-4.68	-3.221-2.94	-2.081-1.02	0.441-0.44	-1.751-1.02	0.491-0.24	-1.291-3.88	-4.211-6.08	-5.261-4.26	-3.081-1.90	-1.831-2.15	-4.111-6.35	-13.051-10.27	-3.461-2.81	-2.741-3.20	-7.411-5.81
Θ(97.5°)	-8.291-10.27	-13.041-13.75	-9.751-9.03	-11.781-7.75	-3.861-3.80	-5.551-7.12	-9.851-7.87	-7.051-7.40	-4.951-6.20	-3.111-2.04	0.1001-53	-1.221-2.74	-2.241-2.34	0.371-0.73	-3.071-2.38	-1.551-4.30	-4.621-2.95	-4.381-7.14	-5.701-14.2	-6.671-6.75	-10.091-7.53	-10.331-5.20	-4.041-6.58	-6.411-5.28
Θ(105°)	-6.841-8.36	-14.681-13.31	-8.951-8.92	-7.671-6.17	-5.781-5.15	-9.221-11.68	-9.571-6.77	-6.661-9.61	-9.131-7.80	-4.801-3.46	-1.631-0.97	-1.131-2.56	-3.841-4.03	-2.901-2.54	-1.7901-60	-0.271-2.37	-4.881-11.74	-7.411-0.68	-3.041-5.36	-4.161-9.08	-12.531-6.81	-5.301-4.93	-5.341-5.15	-5.471-4.88
Θ(112.5°)	-6.941-8.13	-9.291-14.73	-8.831-8.44	-7.061-7.64	-7.761-8.99	-12.561-11.33	-9.801-8.86	-9.821-10.63	-13.451-10.16	-6.271-3.44	-2.831-2.44	-3.351-4.42	-5.291-4.74	-3.681-1.63	-1.6701-02	-1.551-3.25	-4.651-4.73	-6.691-5.71	-3.901-0.58	-2.981-4.55	-6.481-8.93	-5.971-12.27	-13.561-5.90	-2.581-3.86
Θ(120°)	-4.341-6.89	-9.311-6.10	-7.041-5.63	-3.691-5.33	-9.871-13.97	-11.191-8.81	-8.451-10.07	-10.691-12.76	-10.941-6.49	-4.481-3.14	-3.201-3.61	-3.101-5.90	-5.901-2.72	-1.861-1.27	-3.141-1.44	-4.661-5.89	-2.291-2.76	-2.791-14.02	-5.311-5.13	-6.251-13.78	-6.651-7.53	-12.811-14.17	-6.061-6.77	-7.831-6.70
Θ(127.5°)	-5.591-9.22	-1.981-8.13	-6.821-9.66	-7.281-4.26	-5.411-9.34	-13.141-11.86	-14.721-12.76	-9.551-8.78	-2.261-1.42	-1.721-12.76	-1.501-2.11	-3.541-1.05	-0.821-0.91	-2.591-2.20	-4.001-4.40	-4.531-3.93	-2.821-2.02	-4.171-4.29	-5.451-5.73	-1.091-10.11	-12.691-14.16	-4.051-3.99	-5.481-5.91	
Θ(135°)	-12.151-12.20	-10.151-8.54	-5.441-5.53	-9.851-6.65	-4.931-4.87	-7.221-11.77	-15.041-15.11	-14.811-14.04	-10.861-6.75	-4.041-2.35	-1.371-0.98	-1.751-3.55	-5.651-7.59	-5.841-5.98	-3.851-4.20	-2.951-4.66	-6.891-4.18	-4.981-2.28	-2.341-3.70	-2.301-4.15	-5.611-15.89	-10.741-8.74	-13.531-8.89	-7.071-9.97
Θ(142.5°)	-8.781-8.59	-10.001-11.78	-9.741-7.00	-8.021-10.49	-10.621-7.55	-10.811-9.52	-9.301-7.85	-6.321-5.04	-4.471-4.10	-3.401-3.37	-4.141-5.74	-6.191-5.78	-3.861-3.49	-2.431-3.12	-3.761-3.13	-3.011-3.81	-6.211-8.93	-8.971-6.61	-9.621-6.10	-1.971-2.18	-6.181-9.92	-9.641-7.81	-7.281-8.47	-7.321-7.24
Θ(150°)	-15.001-15.04	-13.901-10.21	-10.011-4.49	-6.961-7.07	-9.291-14.32	-14.601-15.62	-12.821-9.45	-8.251-6.98	-5.681-5.26	-5.621-6.32	-6.991-5.20	-1.311-1.74	-0.891-0.47	-0.231-0.15	-0.111-0.03	0.4301-99	-0.871-3.16	-3.531-5.20	-8.931-7.48	-3.291-1.79	-7.221-7.31	-8.221-7.34	-5.891-8.87	-11.781-14.92
Θ(157.5°)	-9.711-10.68	-11.651-12.35	-11.661-10.74	-10.461-10.80	-11.161-10.96	-10.781-12.52	-13.701-13.12	-11.791-12.24	-12.991-10.60	-7.791-6.13	-5.251-4.28	-3.441-2.31	-1.291-0.59	0.3101-83	0.6901-21	-0.371-1.12	-2.531-3.44	-4.241-5.98	-7.391-6.70	-4.601-3.79	-5.181-9.27	-7.931-6.09	-5.761-6.60	-7.371-9.10
Θ(165°)	-12.401-11.34	-10.781-10.17	-9.581-7.80	-8.751-8.87	-8.521-8.10	-7.661-7.71	-7.071-7.67	-8.201-8.51	-9.641-11.33	-12.121-11.17	-9.861-8.57	-7.371-9.58	-3.401-3.62	-4.161-4.45	-4.941-6.28	-5.741-6.46	-7.131-7.23	-7.421-7.54	-7.761-8.34	-9.071-11.36	-12.101-10.59	-9.451-9.35	-9.551-10.28	
Θ(172.5°)	-10.271-10.06	-9.551-9.46	-9.571-9.65	-9.251-9.55	-10.221-10.13	-10.191-9.84	-10.241-12.32	-14.131-14.03	-13.751-13.19	-10.901-9.16	-7.511-6.55	-6.291-6.52	-6.901-7.51	-8.761-10.64	-11.841-13.73	-8.851-7.80	-13.811-10.12	-13.851-15.90	-15.181-15.09	-13.691-12.12	-11.911-9.94	-9.121-8.78		
Θ(180°)	-15.651-15.41	-14.921-14.26	-14.161-13.68	-12.931-12.32	-12.121-12.26	-12.121-11.57	-11.821-12.37	-12.511-12.02	-11.751-11.29	-10.781-10.06	-9.621-9.32	-8.871-8.53	-7.821-7.54	-7.471-7.57	-7.931-8.18	-8.461-9.07	-9.651-10.05	-10.141-10.06	-9.941-11.03	-13.261-12.82	-11.801-11.12	-10.581-11.29	-13.781-14.36	-15.121-15.57
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°)	-11.511-11.96	-11.691-12.05	-12.641-12.68	-12.701-12.77	-13.451-13.71	-13.071-12.72	-11.291-11.31	-11.541-11.06	-10.611-10.41	-9.791-9.39	-8.721-8.23	-8.591-9.09	-10.301-11.73	-12.991-13.42	-13.791-13.57	-14.301-14.23	-13.991-12.62	-12.091-11.93	-12.901-12.79	-12.911-13.41	-12.381-11.44	-11.541-12.00	-13.451-13.45	-12.071-11.97
Θ(7.5°)	-10.031-11.57	-14.081-14.96	-14.141-13.66	-15.101-15.19	-12.981-11.42	-11.371-11.31	-11.141-10.63	-10.201-10.44	-10.501-10.24	-9.841-10.29	-10.531-10.96	-11.171-11.45	-11.411-11.37	-11.831-13.15	-13.831-14.24	-13.921-13.72	-13.521-13.12	-12.001-10.17	-9.421-8.49	-8.291-8.63	-8.881-8.38	-7.871-7.67	-7.181-8.00	-9.501-9.68
Θ(15°)	-4.781-6.78	-9.871-9.78	-9.271-8.99	-8.401-8.44	-8.431-8.01	-7.611-7.12	-6.771-6.40	-6.021-5.71	-5.291-5.40	-5.281-4.69	-4.261-4.10	-4.701-5.87	-7.791-10.98	-6.281-6.52	-6.701-8.70	-6.681-8.12	-7.011-6.35	-6.331-6.56	-6.901-6.24	-5.491-4.06	-2.951-3.29	-4.781-4.88		
Θ(22.5°)	-3.771-4.77	-5.691-6.49	-7.641-8.65	-8.761-7.93	-7.201-7.55	-8.121-8.34	-7.831-8.59	-9.651-9.88	-8.991-7.49	-5.531-9.39	-3.191-2.21	-1.641-2.19	-3.491-5.38	-7.041-7.15	-7.291-7.17	-7.191-7.69	-9.691-10.00	-7						

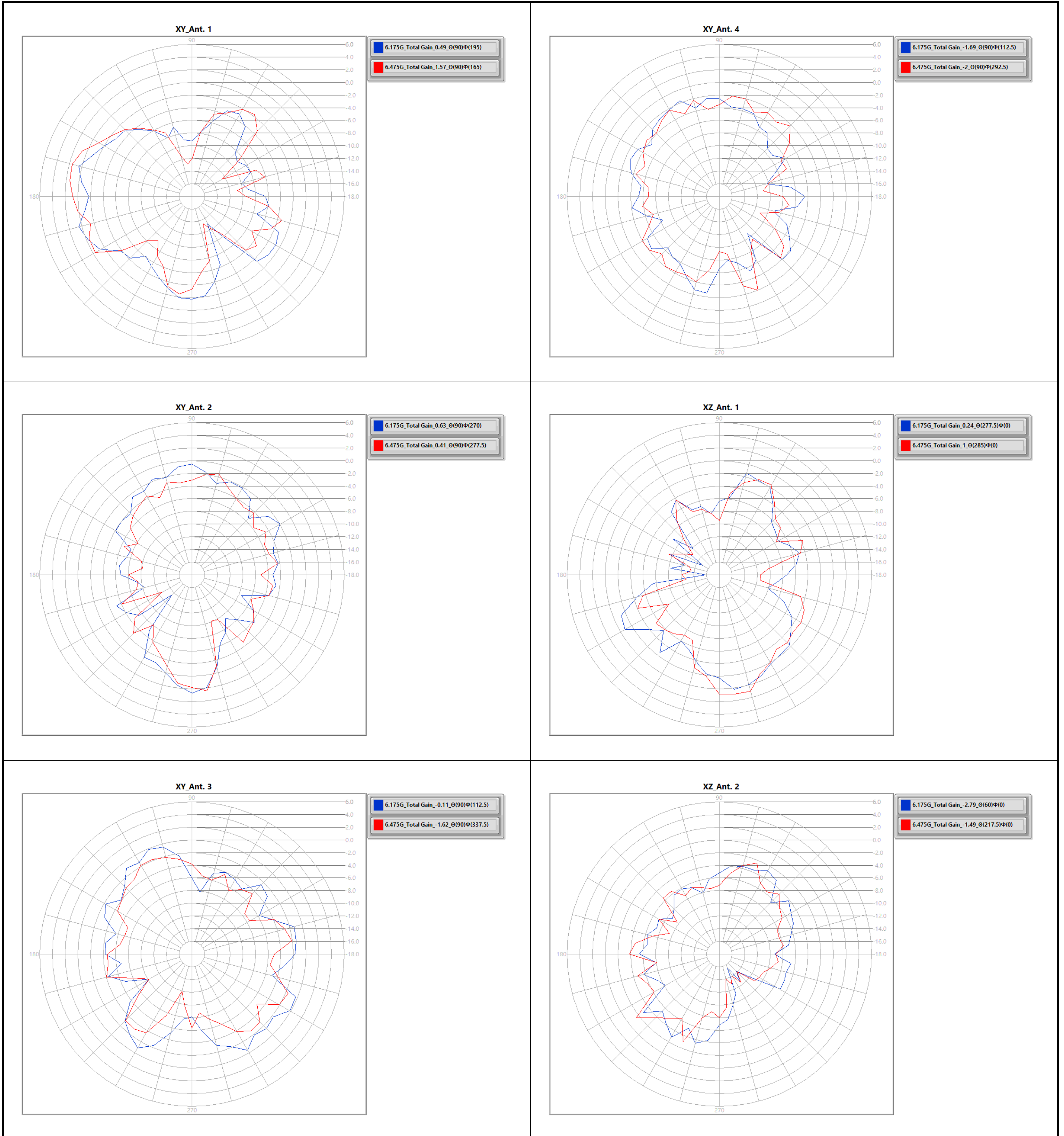


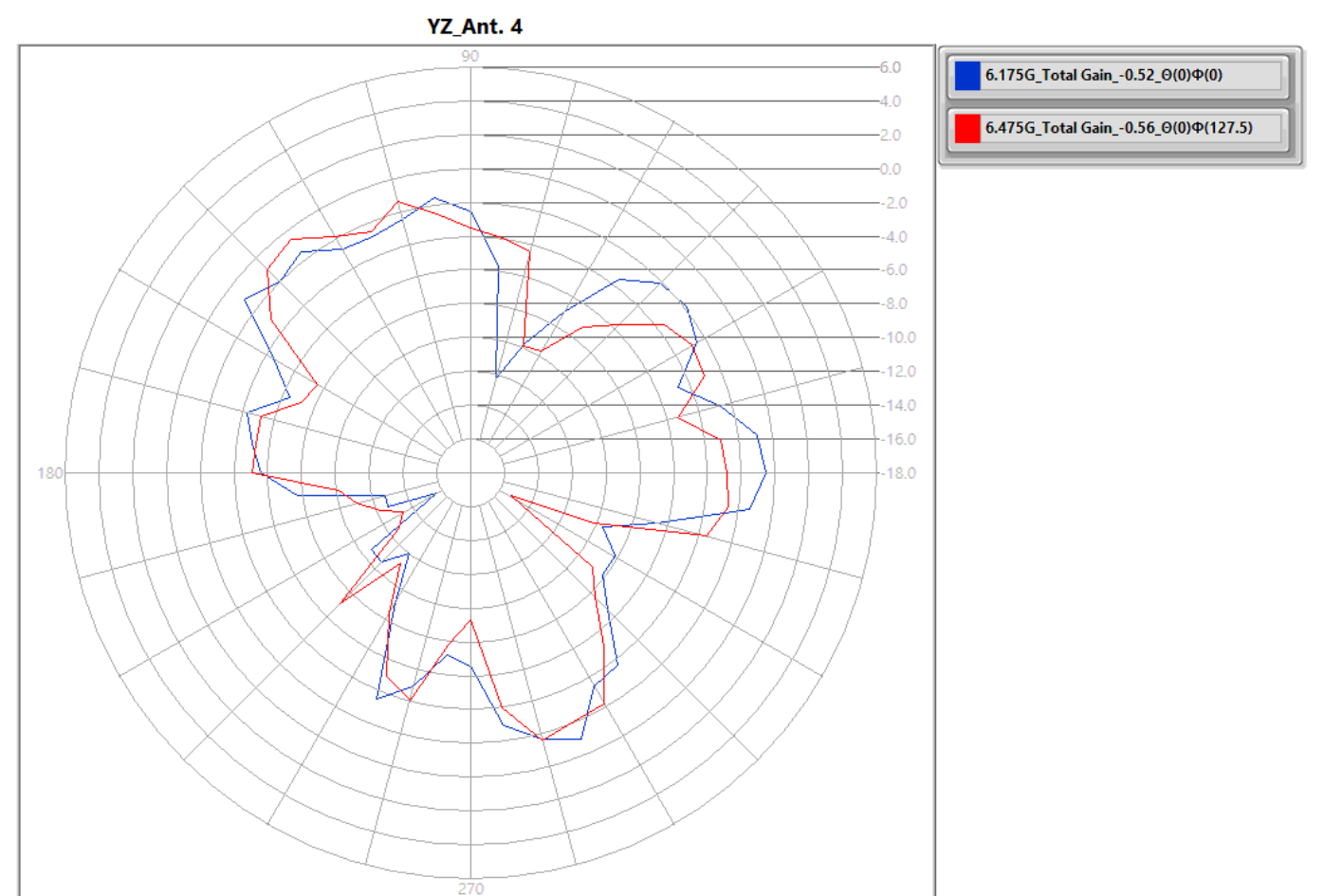
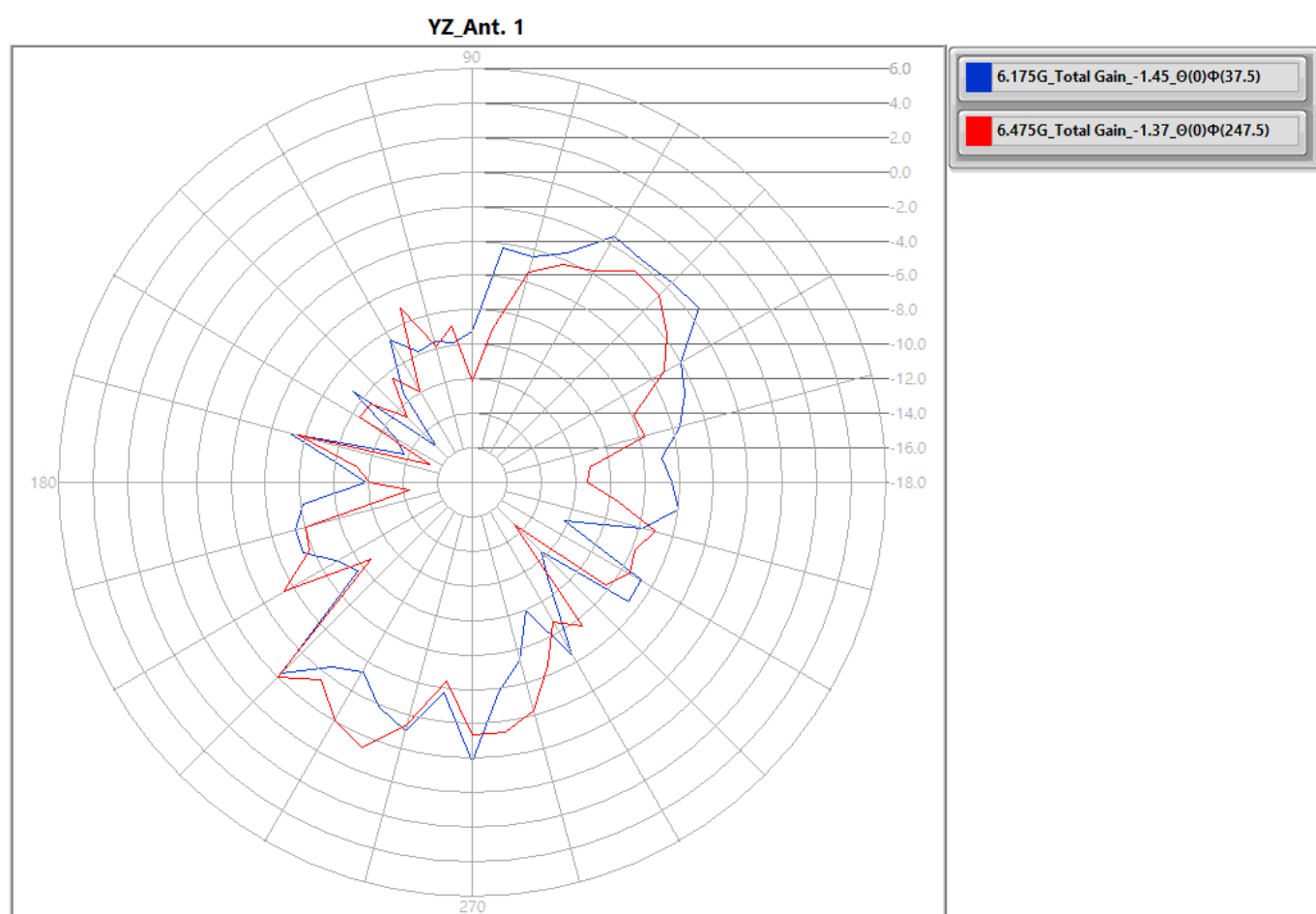
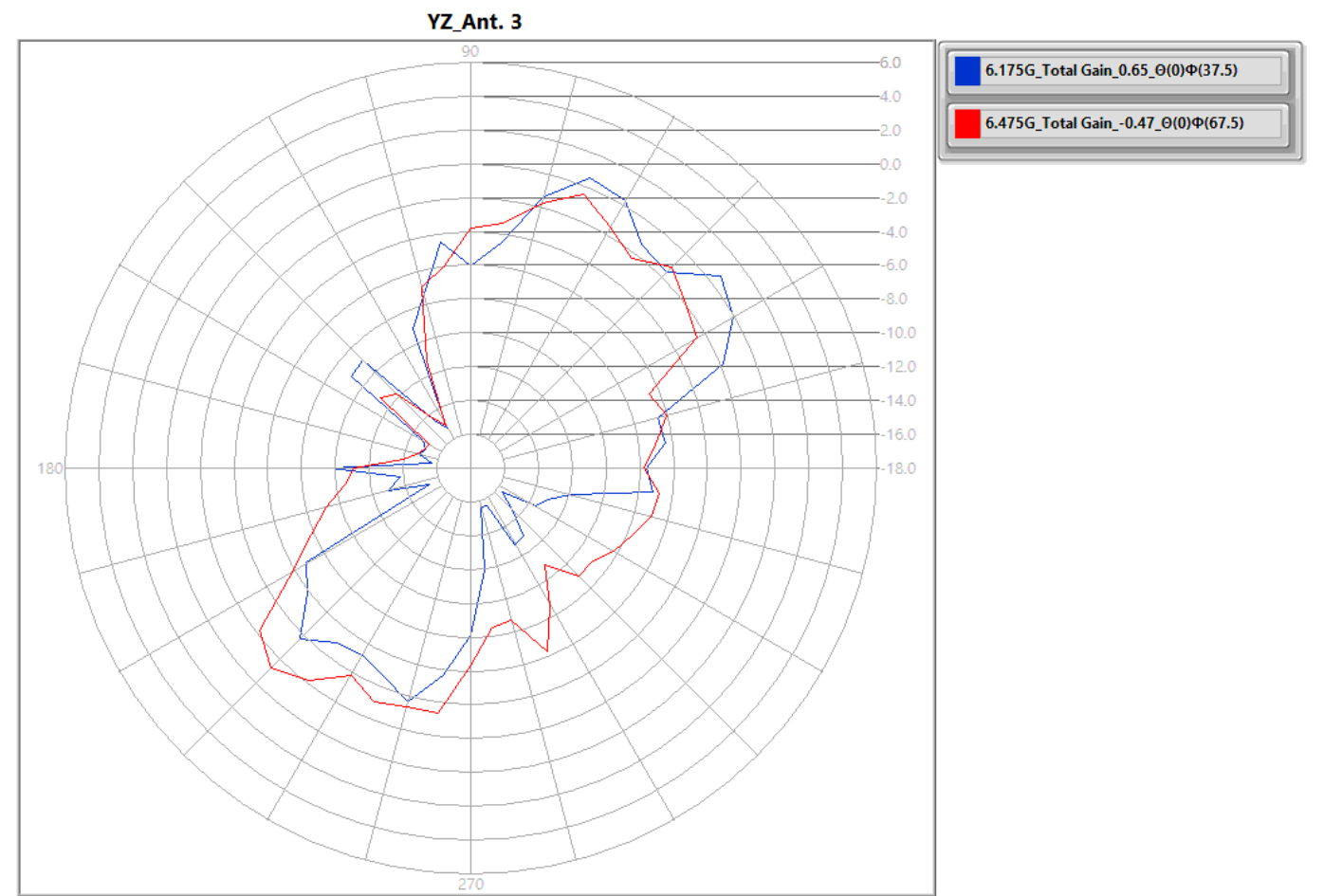
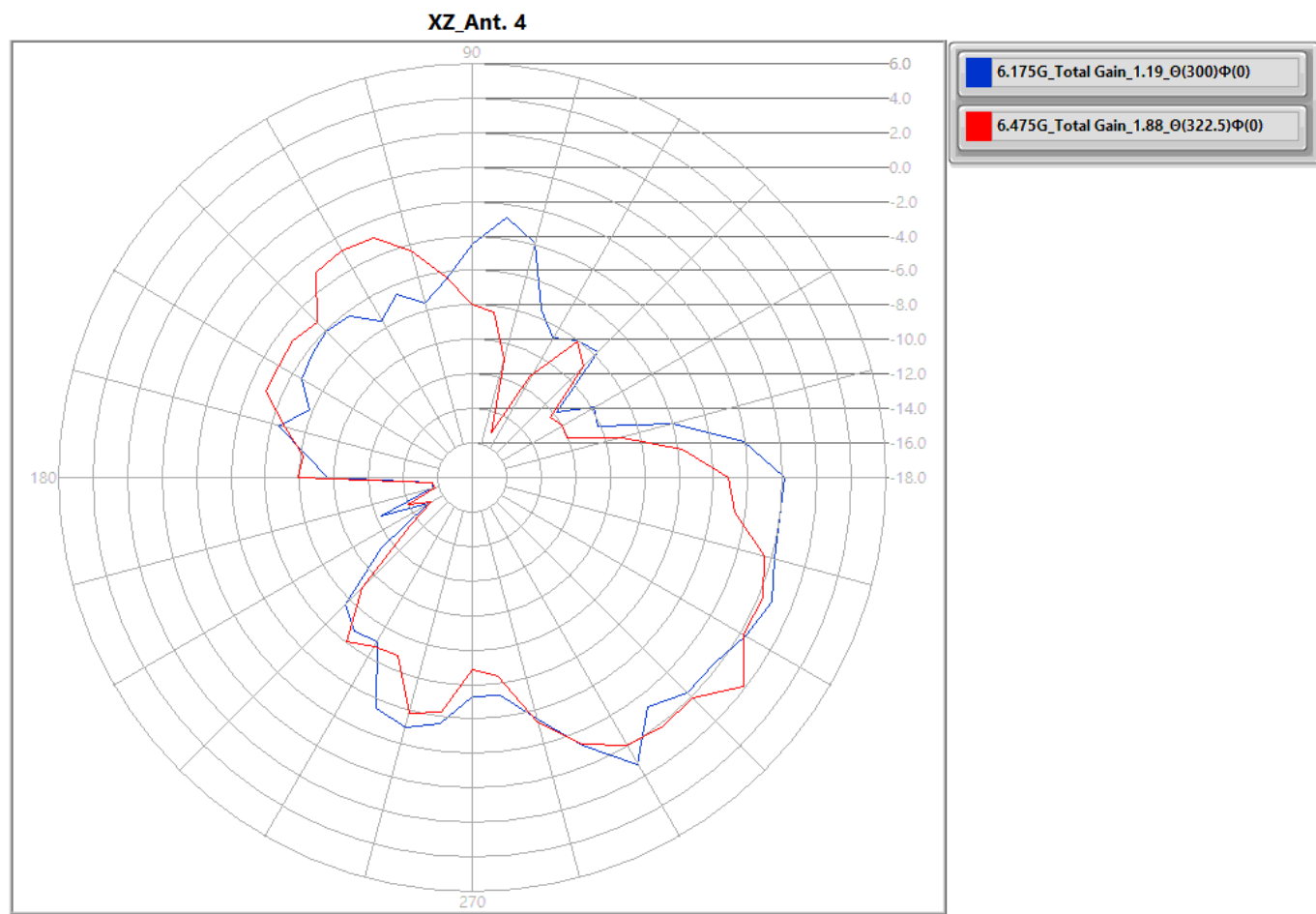
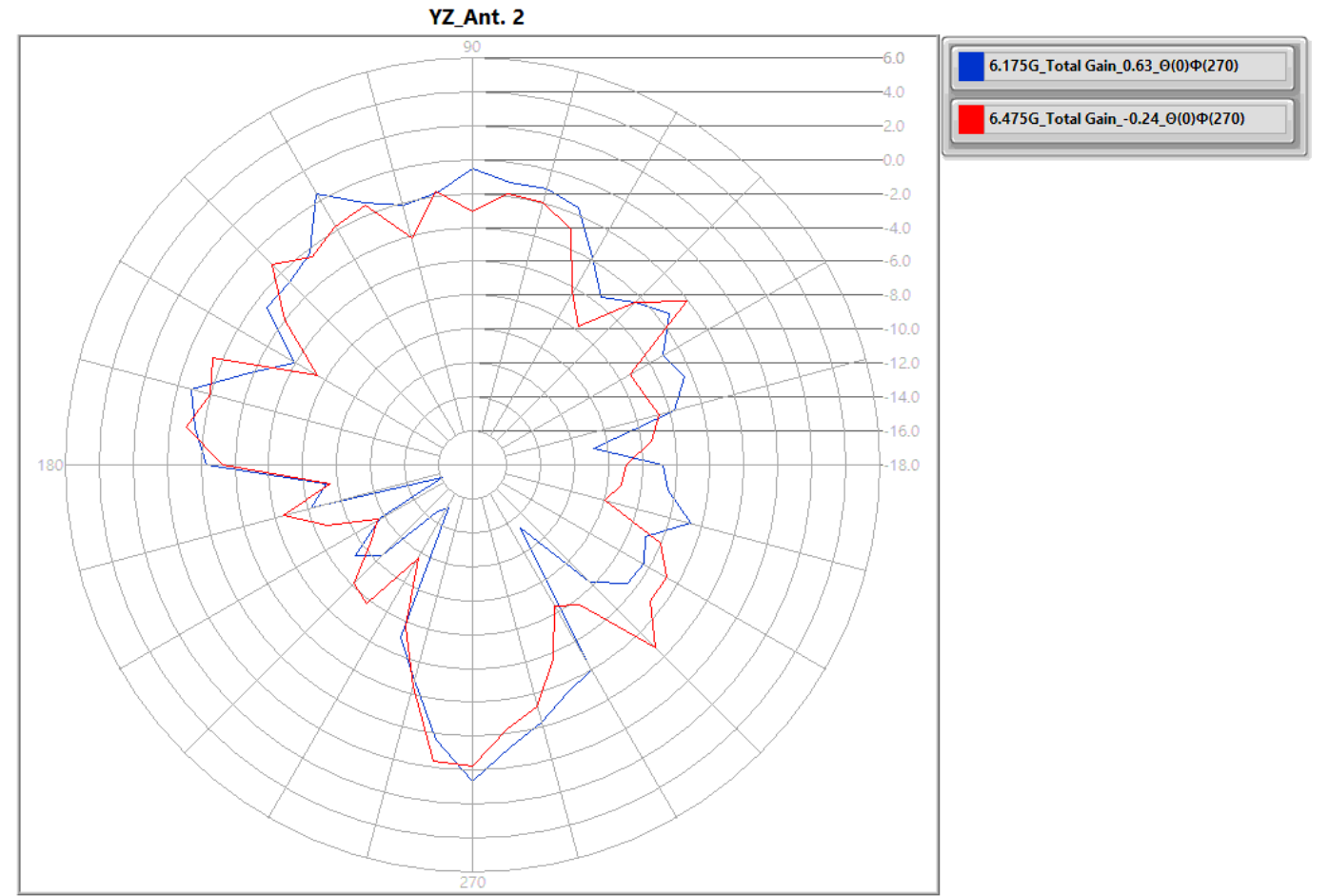
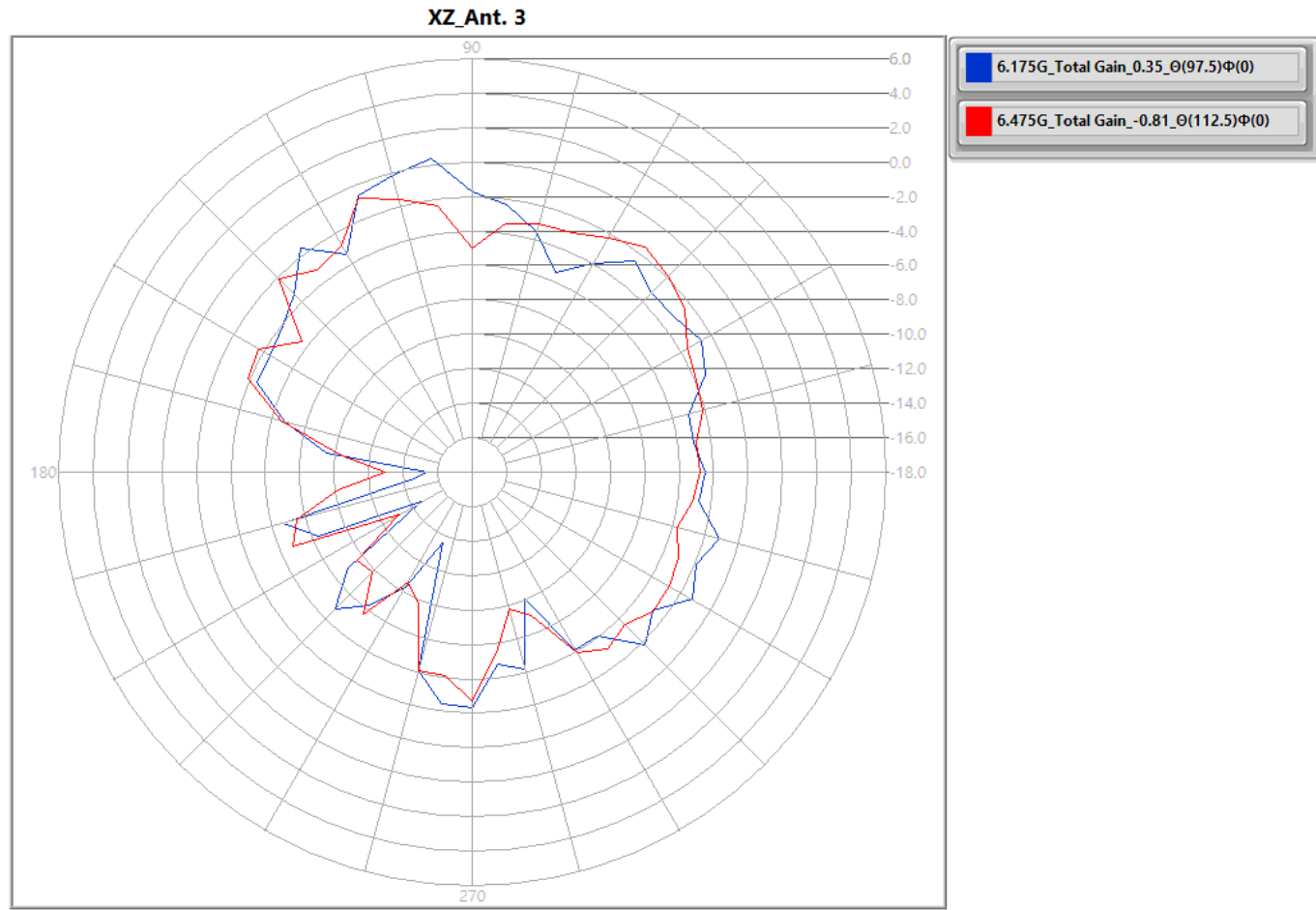
Antenna Pattern of 6GHz UNII 5~6

Appendix E

Θ(15°)	-5.02/-4.56	-4.38/-4.23	-4.89/-4.95	-5.52/-5.90	-5.88/-6.19	-6.24/-6.59	-6.55/-6.21	-6.15/-6.02	-5.71/-5.54	-5.69/-5.63	-5.25/-4.48	-3.84/-3.39	-3.16/-3.05	-3.02/-3.01	-3.29/-3.84	-4.59/-5.60	-6.45/-7.40	-8.68/-9.95	-11.85/-13.06	-14.73/-13.95	-11.45/-9.84	-7.86/-7.08	-6.68/-6.54	-5.95/-5.12
Θ(22.5°)	-3.33/-3.96	-4.17/-5.24	-5.17/-4.53	-5.21/-4.30	-4.16/-4.01	-3.01/-2.21	-1.80/-1.72	-1.72/-2.49	-3.32/-3.86	-4.16/-3.93	-3.72/-3.64	-3.52/-3.82	-3.93/-3.67	-3.32/-3.99	-2.87/-3.37	-4.09/-4.95	-6.33/-8.18	-10.39/-12.08	-13.12/-15.26	-15.50/-14.77	-12.19/-9.72	-7.18/-5.79	-4.00/-3.68	-2.89/-2.84
Θ(30°)	-2.68/-3.20	-4.53/-6.12	-6.48/-4.78	-2.65/-1.89	-1.16/-0.52	-0.200/-0.6	-0.08/-0.19	-0.67/-1.43	-2.06/-2.56	-2.65/-2.65	-3.24/-3.58	-3.69/-3.43	-3.26/-3.36	-3.41/-3.19	-2.92/-3.38	-3.98/-5.31	-7.77/-10.44	-12.20/-12.45	-13.52/-10.66	-12.62/-10.66	-9.12/-7.90	-6.84/-5.95	-4.00/-2.85	-2.32/-2.54
Θ(37.5°)	-3.21/-4.00	-4.86/-5.31	-4.17/-3.05	-2.02/-1.25	-0.98/-0.83	-0.190/-0.27	0.650/-37	-0.21/-1.26	-2.83/-4.00	-4.29/-4.03	-3.39/-3.19	-4.08/-4.79	-4.77/-4.60	-4.01/-3.56	-3.94/-5.48	-8.09/-11.13	-12.08/-12.17	-13.29/-15.45	-15.68/-14.57	-14.39/-10.78	-7.89/-6.37	-5.88/-4.91	-3.13/-1.76	-1.56/-1.99
Θ(45°)	-3.32/-4.69	-5.68/-4.24	-3.26/-1.80	-0.93/-1.27	-1.53/-1.39	-1.16/-1.14	-1.62/-2.08	-2.76/-4.08	-6.38/-8.33	-8.67/-6.70	-4.24/-2.88	-2.25/-3.08	-3.79/-5.30	-5.55/-6.31	-8.19/-9.90	-11.56/-11.96	-12.21/-15.56	-15.04/-15.22	-14.53/-12.16	-11.42/-9.38	-8.18/-9.99	-4.65/-3.84	-3.11/-2.15	-1.31/-1.47
Θ(52.5°)	-2.51/-5.22	-4.98/-2.95	-2.17/-1.70	-1.20/-1.28	-2.67/-4.04	-3.29/-1.79	-1.34/-1.99	-3.17/-4.49	-5.82/-6.18	-6.36/-6.35	-5.52/-3.25	-3.00/-3.64	-6.03/-7.87	-6.66/-7.64	-8.71/-10.18	-9.60/-10.10	-12.29/-14.31	-14.25/-12.07	-12.90/-12.98	-13.20/-12.15	-10.29/-9.26	-6.28/-3.98	-2.25/-0.60	-0.61/-0.61
Θ(60°)	-3.98/-4.57	-1.08/-0.10	-0.57/-0.20	0.95/-1.45	-1.92/-4.12	-1.27/-0.20	0.240/-10	-0.85/-1.65	-2.19/-2.10	-2.09/-2.17	-3.76/-4.77	-3.31/-4.02	-6.04/-8.57	-7.09/-5.23	-7.61/-10.33	-8.89/-10.10	-10.20/-10.60	-12.36/-14.85	-12.79/-13.76	-13.20/-10.44	-10.79/-11.20	-7.35/-2.84	-1.09/-0.83	-0.26/-1.14
Θ(67.5°)	-5.47/-3.28	-0.50/-0.93	-3.02/-2.27	-2.09/-5.75	-5.76/-2.42	-0.84/-0.21	0.540/-85	0.62/-0.32	-1.22/-1.31	-1.30/-1.35	-2.62/-4.84	-6.37/-7.04	-10.03/-13.36	-10.04/-9.38	-7.86/-6.23	-9.03/-9.59	-10.46/-13.08	-14.33/-15.20	-15.57/-15.56	-14.78/-13.04	-13.68/-9.88	-6.77/-2.82	-1.47/-1.03	-1.97/-3.61
Θ(75°)	-3.57/-1.53	0.35/-0.50	-4.64/-3.65	-2.93/-4.50	-3.84/-1.24	-0.70/-1.51	-1.36/-1.22	-0.70/-1.18	-1.88/-2.72	-2.97/-2.31	-3.44/-6.17	-7.59/-6.43	-6.16/-9.89	-8.86/-10.04	-9.45/-6.51	-7.37/-6.86	-7.63/-8.36	-13.74/-16.04	-15.63/-12.71	-12.11/-10.35	-16.01/-7.19	-5.10/-3.62	-2.70/-3.39	-2.89/-3.29
Θ(82.5°)	-2.380/-1.7	-0.45/-1.78	-4.16/-3.92	-4.07/-4.71	-3.37/-2.46	-3.49/-5.71	-4.57/-1.88	-0.88/-1.00	-2.75/-2.55	-3.32/-3.51	-4.95/-5.81	-7.45/-7.06	-6.73/-9.95	-7.43/-9.18	-10.16/-9.90	-5.52/-6.13	-5.29/-6.94	-9.23/-11.63	-11.91/-8.50	-7.88/-5.96	-5.97/-5.65	-4.24/-3.62	-1.31/-1.86	-5.18/-2.67
Θ(90°)	-1.74/-1.46	-1.29/-4.04	-5.74/-3.01	-2.57/-5.04	-4.44/-4.07	-4.74/-8.12	-6.03/-2.41	-0.50/-0.11	-1.38/-0.99	-2.98/-3.99	-2.31/-3.10	-5.65/-4.32	-4.35/-6.75	-4.41/-6.70	-10.15/-5.70	-3.10/-1.94	-0.89/-2.36	-5.26/-7.66	-8.10/-5.82	-3.06/-2.23	-0.53/-1.86	-1.37/-1.80	-1.07/-0.33	-4.94/-3.37
Θ(97.5°)	-0.35/-2.62	-2.03/-5.59	-2.64/-2.54	-3.33/-5.56	-4.38/-5.45	-8.04/-11.24	-4.53/-1.68	-0.15/-0.80	-1.77/-2.98	-4.98/-3.72	-1.91/-2.25	-4.09/-3.31	-4.44/-7.11	-4.94/-6.06	-7.09/-3.48	-2.30/-0.46	-0.58/-1.01	-5.30/-6.18	-5.66/-3.64	-2.66/-0.62	-1.09/-0.87	-2.49/-2.82	-3.52/-1.28	-2.51/-2.98
Θ(105°)	-0.13/-2.77	-3.02/-3.72	-3.13/-4.57	-5.39/-8.35	-7.32/-8.33	-9.78/-13.76	-7.32/-3.85	-1.87/-1.93	-2.24/-5.13	-6.37/-4.77	-3.08/-4.64	-5.27/-4.59	-6.05/-10.16	-6.66/-5.63	-13.24/-10.19	-4.02/-1.35	-1.90/-0.49	-3.44/-2.16	-3.71/-3.83	-1.720/-0.19	-0.89/-1.49	-2.83/-3.72	-1.47/-1.81	-0.81/-1.00
Θ(112.5°)	-0.64/-6.33	-3.16/-2.40	-2.99/-5.44	-7.77/-5.56	-5.65/-7.77	-12.95/-14.51	-9.04/-5.98	-4.97/-6.05	-7.18/-11.71	-12.58/-7.48	-4.93/-7.73	-8.32/-7.80	-13.59/-13.64	-11.57/-13.11	-10.88/-8.53	-2.76/-4.01	-2.98/-4.87	-5.25/-0.59	-4.67/-4.91	-3.59/-1.14	-2.59/-8.66	-10.05/-7.56	-4.43/-0.84	-0.43/-0.88
Θ(120°)	-3.43/-3.86	-4.69/-1.89	-3.56/-5.32	-9.56/-9.93	-10.08/-8.01	-10.32/-14.06	-15.22/-11.26	-6.78/-8.36	-8.96/-8.57	-10.89/-7.51	-7.88/-9.33	-5.15/-5.60	-10.27/-15.24	-10.77/-10.80	-13.30/-11.32	-5.08/-2.56	-1.54/-6.09	-4.040/-19	-5.22/-5.95	-2.19/-1.60	-0.92/-3.04	-6.02/-2.88	-0.020/-17	-1.81/-1.17
Θ(127.5°)	-1.60/-1.56	-1.19/-1.26	-1.62/-5.08	-6.70/-10.72	-10.65/-11.87	-12.34/-15.40	-14.43/-14.74	-13.89/-10.87	-12.65/-14.92	-10.25/-6.71	-5.02/-5.82	-5.07/-8.07	-8.29/-10.10	-12.55/-11.60	-5.40/-7.34	-3.82/-3.89	-1.14/-7.74	-2.762/-3.2	-4.98/-8.77	-1.16/-4.40	-0.76/-6.22	-4.92/-3.25	1.440/-0.34	-1.61/-0.98
Θ(135°)	-3.37/-2.21	-1.15/-2.92	-4.68/-2.50	-4.68/-2.50	-8.73/-9.66	-8.91/-7.96	-8.96/-11.98	-10.82/-9.26	-11.77/-13.32	-11.86/-9.61	-8.59/-6.46	-3.99/-6.66	-6.78/-9.54	-11.16/-12.86	-10.24/-7.50	-13.92/-1.73	-4.92/-14.77	-2.432/-8.3	-3.71/-12.84	-1.73/-1.27	-1.94/-2.32	-12.87/-5.66	-1.86/-0.99	-4.61/-2.37
Θ(142.5°)	-4.12/-5.75	-4.71/-4.50	-5.01/-5.51	-9.97/-12.35	-15.18/-9.90	-6.93/-7.68	-9.06/-9.52	-10.51/-14.66	-15.18/-12.61	-12.77/-9.23	-7.77/-8.22	-11.46/-9.31	-8.87/-13.57	-10.42/-7.40	-8.22/-11.17	-4.71/-2.53	-7.38/-11.53	-1.720/-60	-5.82/-12.41	-4.28/-2.67	-4.24/-3.30	-1.85/-2.58	-6.15/-1.67	
Θ(150°)	-4.44/-3.38	-4.23/-5.50	-7.05/-7.10	-8.16/-14.17	-14.13/-11.84	-11.31/-13.45	-14.77/-15.00	-12.72/-14.95	-15.22/-13.03	-10.89/-9.15	-8.32/-9.12	-11.00/-14.77	-14.61/-8.60	-6.28/-7.41	-10.33/-8.26	-10.63/-11.32	-8.77/-8.40	-5.33/-3.88	-6.80/-12.75	-12.35/-8.87	-6.04/-5.57	-3.48/-4.84	-7.16/-7.06	-5.72/-5.02
Θ(157.5°)	-4.46/-3.97	-3.89/-3.99	-4.09/-6.78	-9.25/-11.19	-13.44/-15.30	-15.73/-15.22	-15.09/-15.60	-13.79/-10.86	-9.91/-10.57	-14.01/-13.34	-14.29/-14.98	-14.11/-10.52	-8.34/-6.65	-6.82/-11.18	-15.08/-12.43	-11.47/-8.12	-7.25/-6.40	-5.18/-4.78	-15.38/-14.82	-14.96/-10.05	-6.24/-6.65	-8.24/-8.88	-7.03/-5.95	-4.80/-3.75
Θ(165°)	-6.80/-6.68	-6.66/-7.16	-9.20/-10.67	-12.11/-13.44	-14.76/-15.71	-15.51/-15.14	-14.87/-15.53	-15.83/-16.11	-15.35/-14.82	-13.11/-10.23	-8.88/-8.08	-7.35/-7.08	-6.63/-5.99	-5.50/-6.33	-8.98/-11.71	-9.44/-6.81	-5.88/-6.41	-7.84/-10.51	-12.96/-14.32	-14.42/-12.78	-11.78/-10.78	-9.79/-9.62	-9.59/-8.71	-9.38/-8.91
Θ(172.5°)	-9.47/-10.11	-11.79/-13.73	-14.43/-14.36	-15.05/-14.68	-13.56/-13.74	-15.70/-15.72	-15.69/-15.54	-15.33/-15.34	-15.67/-14.73	-15.52/-15.21	-15.82/-15.71	-14.98/-15.64	-14.42/-12.55	-10.63/-9.97	-10.15/-10.21	-9.53/-8.87	-8.39/-8.66	-10.62/-12.16	-13.84/-14.46	-15.49/-14.39	-14.06/-13.66	-12.67/-10.77	-9.79/-9.99	-9.51/-9.84
Θ(180°)	-15.41/-15.38	-12.46/-12.59	-12.88/-13.64	-14.11/-15.32	-13.39/-12.55	-11.11/-11.11	-9.70/-9.23	-9.93/-10.10	-9.68/-9.11	-9.24/-9.22	-9.69/-10.06	-10.60/-11.44	-11.76/-11.52	-11.54/-11.99	-11.89/-12.34	-13.35/-13.77	-15.15/-15.42	-15.18/-14.20	-13.00/-12.80	-12.57/-12.55	-12.79/-13.67	-13.97/-14.98	-13.94/-12.70	-13.08/-12.97
Freq(Hz)	6.475GPol.	Total/Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-4.79/-5.30	-5.61/-5.32	-6.95/-7.06	-6.99/-7.67	-7.73/-7.48	-7.50/-7.70	-7.75/-7.83	-7.83/-7.36	-6.53/-6.28	-6.03/-6.06	-5.67/-5.54	-5.48/-5.47	-5.40/-5.37	-5.27/-5.40	-5.51/-5.46	-5.86/-5.97	-5.80/-6.24	-6.61/-6.71	-6.74/-6.46	-6.59/-6.15	-5.90/-5.82	-6.08/-6.30	-5.06/-6.42	-4.52/-4.53
Θ(7.5°)	-4.92/-4.63	-4.23/-4.89	-6.38/-6.10	-6.48/-6.83	-7.22/-7.55	-7.59/-7.39	-7.01/-6.52	-6.35/-6.28	-6.28/-6.14	-5.93/-5.47	-5.40/-5.50	-5.25/-5.30	-5.10/-5.00	-5.08/-5.17	-5.23/-5.44	-6.03/-6.30	-6.42/-6.57	-6.71/-6.94	-6.74/-7.53	-7.22/-6.66	-6.43/-6.16	-5.77/-5.90	-5.62/-5.53	-5.02/-4.47
Θ(15°)	-4.14/-4.02	-3.79/-4.96	-5.16/-5.34	-5.97/-6.05	-6.60/-7.01	-7.26/-6.47	-5.99/-6.24	-6.81/-7.05	-7.16/-6.51	-5.95/-5.49	-5.29/-5.29	-5.48/-5.61	-5.70/-5.84	-5.94/-6.21	-6.68/-7.01	-7.47/-8.20	-6.98/-6.59	-6.35/-7.84	-6.96/-7.02	-6.50/-5.60	-5.01/-4.44	-3.44/-4.46	-4.08/-3.63	-3.73/-3.59
Θ(22.5°)	-3.96/-3.69	-4.03/-4.72	-5.37/-6.40	-7.10/-7.35	-7.33/-6.89	-6.57/-6.77	-6.56/-6.14	-5.62/-5.39	-5.16/-4.99	-4.76/-4.34	-4.58/-4.04	-5.37/-5.33	-5.03/-4.62	-4.57/-5.09	-6.20/-6.03	-9.35/-10.83	-10.70/-9.78	-9.00/-8.52	-7.65/-7.02	-5.91/-5.04	-4.47/-4.38	-4.25/-4.76	-4.00/-3.52	-3.53/-3.93
Θ(30°)	-3.57/-3.92	-4.95/-6.05	-6.42/-5.82	-6.39/-6.91	-5.41/-4.47	-3.84/-3.24	-2.58/-2.10	-2.03/-2.49	-2.85/-3.31	-4.16/-4.92	-5.54/-5.36	-4.77/-4.31	-4.75/-5.57	-4.97/-4.42	-4.36/-5.03	-6.26/-7.59	-8.72/-9.24	-9.22/-9.09	-8.23/-6.90	-5.71/-4.33	-3.34/-2.71	-2.48/-2.42	-2.48/-2.75	-3.57/-3.99
Θ(37.5°)	-2.42/-2.82	-3.93/-4.87	-5.34/-5.74	-5.05/-4.06	-3.01/-2.66	-2.47/-2.33	-1.97/-1.57	-1.00/-0.63	-0.61/-1.33	-2.81/-3.71	-4.81/-5.58	-4.92/-4.29	-4.75/-4.99	-4.00/-3.48	-4.14/-5.18	-5.80/-6.87	-7.65/-8.93	-10.64/-10.56	-8.96/-6.26	-5.16/-4.36	-3.83/-3.30	-3.03/-3.01	-2.78/-2.48	-2.21/-2.17
Θ(45°)	-1.93/-3.25	-4.20/-4.54	-4.13/-3.15	-2.38/-2.02	-1.71/-2.80	-3.15/-2.38	-1.23/-0.69	-0.74/-1.38	-2.43/-3.50	-5.05/-5.14	-4.56/-3.84	-3.00/-4.01	-5.51/-4.65	-4.77/-5.51	-6.02/-6.51	-6.93/-6.69	-8.21/-11.75	-13.72/-10.53	-9.01/-9.05	-7.64/-6.35	-5.34/-4.59	-3.94/-3.54	-3.86/-2.92	-1.61/-1.60
Θ(52.5°)	-1.55/-2.75	-3.35/-2.45	-2.49/-2.81	-2.05/-2.25	-3.33/-4.96	-4.84/-3.37	-2.35/-1.95	-2.40/-3.84	-6.18/-4.79	-7.02/-4.50	-3.41/-2.16	-2.01/-4.34	-5.12/-5.39	-7.73/-8.93	-10.77/-10.26	-8.86/-13.07	-15.34/-13.42	-12.73/-13.46	-10.81/-10.49	-8.73/-6.93	-6.10/-5.07	-4.54/-4.39	-2.15/-2.15	-0.41/-0.26
Θ(60°)	-2.29/-3.03	-3.92/-2.23	-2.04/-4.17	-3.42/-2.90	-4.94/-6.12	-4.09/-2.67	-1.52/-1.16	-1.64/-3.18	-4.86/-4.92	-4.31/-3.95	-3.47/-2.96	-2.56/-3.35	-5.86/-7.34	-8.19/-9.71	-7.66/-7.19	-7.44/-10.06	-11.44/-11.12	-10.32/-9.60	-8.68/-8.10	-7.67/-6.96	-6.07/-5.99	-5.02/-3.79	-2.52/-0.81	-0.92/-0.92
Θ(67.5°)	-2.94/-4.53	-2.08/-0.93	-1.72/-9.37	-3.67/-4.13	-6.26/-5.17																			

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







Antenna Pattern of 6GHz UNII 7~8

Appendix F

Total Gain Data

Freq(Hz)	6.695GPol.	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°)	-7.69/-7.12	-7.93/-8.61	-7.80/-7.69	-8.70/-9.92	-11.20/-12.70	-13.42/-13.25	-12.45/-12.25	-12.83/-13.16	-13.33/-13.79	-14.82/-15.11	-14.43/-12.72	-11.44/-11.07	-10.97/-10.53	-9.36/-8.43	-8.17/-8.32	-8.26/-8.05	-7.49/-7.39	-6.80/-6.07	-6.34/-6.48	-7.25/-8.34	-8.81/-8.19	-7.90/-7.42	-6.52/-5.70	-6.51/-7.60
Θ(7.5°)	-9.76/-8.51	-8.16/-7.08	-6.34/-6.49	-6.61/-6.66	-6.44/-6.87	-5.76/-5.94	-6.89/-6.15	-6.59/-6.65	-6.49/-6.55	-6.72/-7.36	-8.22/-9.18	-10.48/-11.29	-11.96/-13.43	-14.70/-14.48	-14.30/-13.74	-13.94/-12.79	-12.68/-13.17	-14.90/-15.71	-16.05/-11.36	-10.06/-10.63				
Θ(15°)	-7.95/-6.20	-7.03/-6.87	-7.47/-7.59	-7.64/-7.73	-7.71/-7.21	-7.02/-6.59	-6.30/-6.39	-5.76/-5.27	-4.76/-4.29	-3.74/-3.37	-3.18/-3.06	-2.87/-2.47	-2.40/-2.96	-4.05/-5.90	-8.49/-11.15	-14.38/-11.72	-8.70/-7.24	-5.91/-5.71	-5.84/-6.09	-6.09/-5.62	-4.53/-3.78	-3.36/-3.87	-5.72/-6.96	-8.29/-8.74
Θ(22.5°)	-6.54/-7.55	-8.35/-7.51	-7.54/-7.15	-6.41/-5.72	-5.77/-5.40	-5.06/-6.40	-5.11/-5.11	-5.20/-5.32	-5.79/-5.97	-5.09/-3.81	-2.46/-1.54	-0.88/-6.06	-0.86/-1.98	-4.28/-7.35	-8.78/-8.81	-8.57/-7.48	-6.22/-5.57	-6.07/-6.59	-7.67/-8.20	-9.21/-8.66	-8.28/-7.78	-6.00/-4.34	-4.08/-3.17	-3.53/-5.11
Θ(30°)	-3.13/-5.68	-8.15/-7.30	-6.45/-6.03	-5.41/-5.67	-5.39/-3.74	-3.03/-2.93	-3.01/-3.44	-4.20/-4.48	-5.07/-5.56	-3.73/-5.55	-2.36/-1.21	-1.34/-0.58	-0.59/-0.53	-1.30/-3.33	-4.90/-5.71	-6.82/-6.03	-5.54/-4.54	-3.78/-3.72	-5.17/-6.86	-8.74/-9.75	-11.74/-13.98	-11.07/-10.22	-9.48/-7.25	-5.53/-5.10
Θ(37.5°)	-7.62/-11.81	-11.11/-10.27	-7.27/-4.24	-2.33/-1.92	-1.96/-2.18	-2.46/-2.20	-2.69/-3.56	-4.70/-6.00	-6.55/-5.72	-4.33/-3.43	-2.96/-2.19	-0.70/-0.51	0.08/-0.99	-2.44/-3.34	-4.58/-5.14	-4.44/-3.63	-3.65/-4.39	-5.27/-5.78	-5.82/-6.95	-9.36/-10.93	-10.56/-8.96	-7.49/-4.84	-5.24/-4.90	-5.08/-5.52
Θ(45°)	-2.92/-6.02	-12.69/-15.25	-13.79/-6.28	-1.88/-0.83	-1.11/-1.85	-1.83/-2.09	-2.57/-1.38	-3.48/-2.98	-1.76/-0.62	-0.33/-1.30	-1.61/-1.32	-1.40/-1.87	-1.87/-1.98	-1.45/-1.59	-2.44/-3.87	-4.04/-5.00	-6.41/-6.64	-6.47/-9.39	-15.47/-11.86	-8.28/-10.69	-11.10/-11.70	-4.98/-6.23	-5.28/-5.03	-3.49/-3.13
Θ(52.5°)	-2.26/-4.83	-9.59/-12.36	-11.05/-8.59	-1.340/-3.1	0.30/-0.28	-0.28/-0.82	-1.94/-3.09	-3.80/-4.34	-2.26/-0.62	-0.56/-2.00	-3.22/-2.64	-1.53/-0.99	-1.15/-2.35	-1.50/-0.85	-1.25/-2.33	-4.74/-10.68	-11.21/-11.37	-8.62/-5.31	-4.78/-9.32	-9.42/-8.37	-9.77/-7.49	-4.58/-3.62	-4.99/-5.82	-2.34/-1.82
Θ(60°)	-0.45/-4.17	-7.97/-9.03	-12.84/-7.01	-3.04/-0.91	-0.90/-1.31	-2.08/-2.77	-4.01/-4.95	-5.18/-4.06	-4.71/-0.96	-0.79/-1.24	-2.97/-1.64	-0.44/-0.50	-0.05/-0.15	0.79/-0.60	-0.97/-2.95	-5.17/-3.79	-5.01/-6.60	-9.26/-7.42	-8.99/-8.30	-7.52/-9.56	-7.26/-7.18	-4.18/-3.39	-3.10/-2.78	-1.71/-1.07
Θ(67.5°)	0.24/-1.10	-4.23/-8.01	-7.77/-5.44	-4.61/-3.54	-3.08/-2.18	-2.07/-3.20	-4.86/-6.08	-5.16/-2.87	-2.49/-1.33	-2.34/-3.08	-4.27/-3.61	-0.09/-1.98	1.74/-1.10	1.54/-1.85	-2.95/-4.37	-1.80/-1.07	-1.23/-4.22	-7.33/-5.80	-9.65/-12.97	-14.84/-14.66	-16.31/-9.26	-8.16/-4.95	-6.65/-5.51	-2.49/-0.71
Θ(75°)	-2.89/-1.40	-2.52/-6.06	-7.97/-5.53	-4.09/-2.34	-2.87/-3.42	-2.33/-4.77	-6.71/-8.44	-6.69/-3.35	-2.67/-0.47	-1.46/-2.45	-1.96/-0.58	0.202/-2.6	3.042/-6.2	2.48/-1.71	0.69/-1.86	3.88/-3.94	9.34/-12.24	-9.06/-6.19	-3.98/-5.10	-5.31/-8.06	-11.34/-9.38	-4.71/-5.40	-2.70/-3.53	-4.44/-4.96
Θ(82.5°)	-5.72/-3.03	-4.09/-7.25	-8.36/-5.78	-3.07/-2.53	-2.62/-2.39	-4.29/-7.05	-9.52/-10.53	-8.29/-3.39	-2.54/-0.92	-2.68/-3.61	-0.94/-1.83	2.46/-1.62	1.660/-91	0.61/-21	0.93/-0.15	-4.61/-5.84	-2.51/-3.17	-4.59/-1.84	-1.27/-0.41	-1.45/-5.22	-9.15/-10.99	-11.45/-7.35	-7.23/-2.95	-4.32/-5.77
Θ(90°)	-6.40/-5.41	-2.94/-8.20	-9.75/-5.95	-2.69/-3.30	-2.17/-1.77	-4.87/-5.89	-6.62/-12.17	-13.99/-9.47	-4.79/-2.26	-2.48/-2.48	0.472/-27	2.94/-25	0.95/-0.28	-0.49/-0.19	1.44/-0.54	-2.75/-10.77	-10.76/-12.13	-6.81/-4.04	-3.88/-6.63	-7.68/-14.92	-10.65/-10.98	-10.86/-11.59	-5.38/-3.83	-5.45/-7.37
Θ(97.5°)	-5.90/-5.47	-8.19/-9.56	-8.85/-7.01	-3.82/-2.58	-3.37/-1.96	-4.77/-6.72	-8.89/-9.09	-8.44/-5.69	-2.62/-1.83	-1.11/-0.22	1.142/-94	2.660/-24	-1.30/-2.24	-1.54/-1.01	0.97/-2.28	-6.37/-10.90	-10.18/-8.34	-11.31/-7.49	-2.67/-1.90	-8.57/-9.70	-10.92/-6.43	-10.70/-12.68	-9.79/-5.07	-2.36/-5.39
Θ(105°)	-6.74/-7.34	-9.70/-10.21	-7.17/-8.48	-6.76/-6.90	-4.51/-3.87	-4.72/-6.89	-8.49/-11.86	-10.49/-8.59	-9.45/-4.35	-3.40/-0.96	0.91/-90	2.10/-29	-2.38/-4.55	-1.49/-0.49	0.40/-2.86	-2.35/-2.38	-2.95/-2.02	-4.53/-2.65	-8.27/-1.52	-4.86/-6.25	-12.60/-11.13	-9.68/-15.38	-10.03/-5.03	-4.85/-6.22
Θ(112.5°)	-9.61/-6.67	-7.76/-7.85	-7.56/-7.10	-6.35/-7.15	-6.12/-5.82	-5.17/-6.10	-7.11/-9.61	-7.60/-10.95	-7.20/-8.09	-3.05/-1.25	0.61/-0.18	-1.24/-1.44	-4.42/-10.94	-3.55/-0.11	0.812/-82	2.63/-3.18	-3.97/-4.88	-4.79/-2.30	0.22/-0.83	-2.40/-4.12	-7.58/-7.61	-7.88/-15.33	-11.63/-5.94	-3.49/-6.75
Θ(120°)	-6.73/-9.23	-6.66/-9.20	-9.36/-8.21	-8.06/-9.47	-10.02/-8.06	-7.29/-9.83	-11.62/-9.21	-15.93/-10.82	-11.09/-5.61	-1.77/-0.35	-0.67/-1.87	-2.75/-3.14	-6.75/-6.62	-1.162/-07	1.472/-15	-1.30/-9.99	-4.60/-1.71	-4.60/-14.95	-11.07/-0.78	-3.48/-6.97	-6.07/-10.60	-6.13/-9.42	-9.14/-6.46	-4.98/-4.32
Θ(127.5°)	-9.71/-11.80	-10.25/-9.81	-10.25/-9.79	-6.26/-7.14	-10.86/-12.87	-11.51/-10.23	-12.88/-15.30	-11.67/-10.67	-4.73/-5.73	-4.37/-2.07	-1.71/-3.30	-3.54/-8.23	-4.48/-5.62	-0.50/-0.04	-0.63/-0.34	0.66/-0.27	-1.39/-4.18	-7.17/-2.27	-3.90/-7.51	-6.29/-5.62	-12.70/-10.4	-10.71/-8.02	-6.10/-5.16	-4.42/-7.77
Θ(135°)	-8.63/-10.50	-9.13/-8.58	-7.27/-7.54	-8.94/-5.75	-6.59/-8.76	-9.61/-8.17	-8.61/-10.61	-10.76/-8.62	-6.75/-5.09	-2.92/-3.07	-3.54/-3.48	-5.55/-5.91	-8.34/-7.05	-7.16/-3.44	-2.34/-1.12	1.100/-64	-0.52/-1.65	-4.26/-0.83	-2.20/-5.98	1.61/-1.01	-6.15/-3.50	-4.66/-6.76	-15.83/-11.23	-5.38/-6.07
Θ(142.5°)	-8.16/-10.45	-10.25/-9.65	-8.38/-5.94	-6.58/-9.81	-8.14/-7.01	-7.28/-7.65	-9.26/-10.51	-10.81/-12.3	-8.22/-5.35	-5.02/-4.38	-4.63/-4.50	-6.41/-8.06	-10.60/-6.93	-4.14/-2.53	-3.01/-1.99	-2.09/-2.66	-2.67/-3.12	-4.27/-4.42	-5.61/-2.47	0.51/-2.44	-8.35/-6.96	-5.83/-3.09	-6.26/-15.66	-9.35/-6.87
Θ(150°)	-12.09/-8.89	-9.12/-12.79	-12.92/-11.55	-11.91/-12.03	-10.54/-9.16	-8.66/-9.31	-9.59/-9.79	-8.66/-7.35	-6.93/-6.58	-6.45/-7.18	-8.48/-9.59	-9.71/-9.75	-9.22/-8.79	-6.07/-2.84	-0.89/-0.06	0.060/-87	1.43/-1.29	-3.66/-3.40	-5.41/-5.98	-3.67/-1.46	-2.93/-4.00	-11.44/-7.14	-5.92/-11.09	-10.95/-12.76
Θ(157.5°)	-8.55/-12.30	-15.35/-15.84	-13.46/-13.25	-12.56/-12.46	-11.33/-10.47	-10.94/-12.63	-13.73/-11.91	-10.39/-10.03	-7.95/-5.46	-3.81/-3.28	-4.25/-5.53	-5.90/-6.14	-5.68/-4.15	-2.16/-0.59	0.13/-0.92	-1.79/-1.35	-2.14/-3.95	-3.50/-3.80	-5.66/-8.03	-7.40/-4.60	-5.88/-13.82	-9.76/-8.30	-7.30/-5.14	-4.71/-6.60
Θ(165°)	-9.57/-10.65	-9.37/-9.40	-9.85/-6.88	-8.96/-6.38	-8.51/-8.81	-8.48/-8.81	-9.96/-11.19	-12.54/-12.49	-15.76/-13.43	-12.08/-12.79	-15.54/-14.49	-10.43/-7.51	-6.12/-5.74	-5.69/-5.47	-5.50/-5.65	-7.41/-6.04	-4.10/-3.01	-2.68/-4.55	-7.39/-7.91	-5.75/-4.08	-3.93/-5.71	-8.71/-8.14	-7.99/-6.61	-6.71/-7.93
Θ(172.5°)	-9.23/-8.47	-6.84/-8.96	-10.35/-11.39	-11.58/-10.88	-9.22/-8.42	-8.55/-9.66	-11.04/-14.76	-14.53/-15.75	-15.07/-14.72	-15.48/-15.12	-14.02/-12.75	-11.97/-11.02	-10.97/-8.86	-9.60/-10.30	-10.95/-11.52	-10.96/-10.69	-9.59/-9.04	-9.80/-12.35	-13.71/-15.14	-12.03/-10.22	-8.40/-7.66	-8.64/-10.59	-10.80/-8.77	-8.78/-10.32
Θ(180°)	-14.26/-12.85	-12.19/-12.23	-13.25/-12.96	-12.88/-12.46	-12.23/-12.34	-12.29/-12.47	-12.90/-13.28	-14.22/-14.52	-14.61/-14.00	-13.12/-12.76	-11.40/-10.84	-10.71/-10.39	-9.96/-10.34	-9.93/-10.33	-10.34/-10.65	-9.85/-10.42	-10.56/-10.99	-12.17/-13.71	-13.58/-12.42	-13.70/-13.02	-10.92/-9.67	-9.26/-10.47	-12.10/-12.05	-13.83/-14.32
Freq(Hz)	6.695GPol.	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°)	-3.04/-2.97	-3.02/-3.11	-3.10/-3.93	-4.37/-4.86	-4.89/-4.90	-5.09/-5.15	-5.24/-4.91	-5.11/-5.03	-4.93/-4.69	-4.74/-4.83	-4.81/-4.93	-4.90/-5.10	-5.06/-4.99	-5.27/-5.55	-5.43/-5.33	-5.19/-4.71	-5.08/-4.70	-5.14/-5.36	-5.45/-5.49	-4.88/-4.26	-3.54/-3.17	-3.17/-3.68	-3.56/-3.68	-2.08/-2.11
Θ(7.5°)	-6.47/-6.10	-6.33/-5.98	-6.31/-6.66	-6.70/-6.46	-6.20/-5.95	-5.71/-5.59	-4.59/-4.21	-3.98/-3.83	-3.51/-3.20	-2.86/-2.69	-2.85/-2.69	-2.70/-2.44	-2.26/-2.47	-2.81/-3.07	-3.57/-4.25	-4.30/-4.85	-5.25/-5.79	-6.72/-7.08	-7.22/-7.37	-7.47/-7.24	-6.69/-6.14	-5.96/-5.76	-5.69/-6.76	-5.45/-5.76
Θ(15°)	-7.60/-8.33	-6.79/-6.51	-6.39/-6.16	-5.92/-6.16	-6.43/-6.94	-6.98/-7.24	-6.78/-6.58	-6.49/-5.52	-4.47/-3.34	-2.49/-1.83	-1.27/-0.77	-0.61/-0.74	-0.85/-1.18	-2.25/-3.44	-4.71/-5.67	-8.97/-9.62	-11.01/-10.88	-10.35/-9.59	-9.18/-9.46	-10.79/-11.76	-12.70/-10.97	-8.75/-6.98	-6.51/-6.74	
Θ(22.5°)	-4.83/-4.87	-6.04/-6.69	-5.87/-5.99	-5.53/-4.76	-4.21/-4.21	-4.36/-4.41	-5.35/-6.39	-7.86/-8.24	-7.65/-6.63	-5.43/-5.21	-4.80/-3.53	-2.21/-1.03	-0.46/-0.03	-0.24/-1.22	-3.00/-5.83	-8.79/-9.31	-8.62/-7.89	-6.69/-5.84	-5.22/-5.86	-5.97/-6.45	-7.56/-6.00	-10.30/-9.08	-6.53/-5.97	-5.02/-5.86
Θ(30°)	-8.32/-6.05	-6.59/-7.25	-5.02/-4.54	-4.24/-3.20	-3.10/-3.43	-3.91/-5.55	-7.86/-8.88	-8.14/-6.87	-5.74/-4.82	-3.85/-4.03	-5.14/-4.47	-0.59/-0.34	-0.83/-1.64	-3.03/-4.58	-5.59/-6.61	-5.68/-4.98	-4.38/-4.26	-4.09/-4.47	-6.31/-10.39	-13.57/-15.09	-14.56/-12.17	-7.34/-5.73	-4.94/-4.78	
Θ(37.5°)	-8.88/-11.54	-11.52/-9.69	-7.77/-7.69	-7.07/-4.96	-3.04/-2.29	-3.04/-4.42	-5.49/-5.84	-5.39/-4.37	-3.19/-3.22	-3.53/-3.35	-2.67/-2.35	-3.11/-2.12	-1.77/-0.82	-0.34/-0.58	-1									



Antenna Pattern of 6GHz UNII 7~8

Appendix F

Θ(22.5°)	-2.95/-4.14	-4.45/-4.25	-4.17/-4.18	-4.13/-3.88	-3.37/-3.30	-3.44/-3.38	-3.71/-3.83	-4.54/-5.34	-5.44/-5.12	-4.77/-4.76	-5.48/-6.10	-6.13/-5.78	-5.14/-5.12	-5.26/-5.90	-6.46/-6.77	-6.82/-7.14	-6.98/-6.80	-6.38/-5.65	-4.91/-4.06	-3.40/-3.12	-3.33/-3.03	-2.73/-2.50	-2.87/-3.40	-2.78/-2.81
Θ(30°)	-4.12/-4.06	-4.19/-3.44	-3.45/-4.29	-4.06/-3.49	-3.17/-3.15	-2.60/-2.49	-2.43/-3.09	-3.37/-3.84	-4.77/-5.30	-5.15/-4.92	-5.11/-6.68	-6.46/-6.50	-5.28/-4.27	-4.19/-4.85	-6.12/-8.14	-9.99/-9.55	-8.83/-9.40	-9.78/-9.53	-8.32/-7.41	-6.19/-5.52	-4.32/-3.99	-3.54/-3.37	-3.04/-3.52	-3.08/-3.17
Θ(37.5°)	-3.81/-3.85	-4.27/-5.31	-4.73/-4.20	-5.28/-3.82	-1.94/-1.00	-1.00/-1.24	-1.28/-0.79	-0.32/-0.34	-0.97/-1.73	-3.27/-4.76	-5.45/-5.73	-6.30/-5.76	-5.25/-5.30	-5.47/-6.89	-6.82/-7.12	-8.13/-9.07	-10.66/-11.66	-10.71/-10.34	-9.70/-8.58	-7.30/-6.28	-5.63/-4.96	-4.21/-4.21	-5.29/-4.35	
Θ(45°)	-2.11/-2.55	-3.44/-3.51	-4.23/-5.41	-4.41/-2.66	-1.81/-1.84	-2.02/-2.53	-2.20/-1.71	-1.19/-0.42	-0.34/-1.16	-2.80/-4.64	-3.98/-4.15	-4.04/-4.34	-5.15/-5.44	-4.11/-2.50	-3.12/-3.46	-4.13/-5.86	-7.34/-11.36	-14.99/-14.67	-13.59/-10.46	-9.22/-6.92	-5.56/-4.11	-3.57/-4.34	-3.99/-3.04	-1.67/-1.04
Θ(52.5°)	-1.32/-2.12	-2.39/-3.12	-2.36/-3.14	-3.22/-1.79	-1.38/-2.17	-3.41/-3.71	-3.45/-2.54	-1.55/-1.30	-2.08/-3.74	-5.18/-6.02	-3.90/-3.25	-2.42/-4.98	-5.81/-5.98	-8.28/-7.51	-4.95/-4.79	-6.97/-8.86	-11.70/-15.30	-16.09/-13.74	-15.99/-14.07	-8.83/-7.29	-5.77/-4.70	-4.80/-4.46	-3.65/-2.10	-1.01/-0.87
Θ(60°)	-1.29/-3.20	-4.05/-2.16	-1.93/-2.57	-3.73/-2.90	-3.52/-6.14	-5.09/-2.35	-1.01/-0.89	-1.60/-2.75	-4.62/-6.04	-4.84/-3.09	-1.66/-1.66	-1.50/-4.44	-4.97/-5.22	-10.39/-14.97	-12.12/-7.45	-10.72/-9.16	-13.57/-13.71	-12.34/-10.13	-8.91/-8.91	-8.25/-7.36	-4.63/-4.47	-3.06/-6.23	-5.09/-3.78	-1.82/-2.20
Θ(67.5°)	-1.99/-2.94	-1.78/-0.64	-2.17/-5.04	-4.54/-4.11	-5.13/-3.86	-1.28/-0.71	-0.100/0.03	-0.52/-1.50	-3.16/-3.12	-1.68/-0.99	-1.08/-1.46	-1.70/-3.55	-5.69/-7.94	-8.22/-10.30	-8.37/-9.32	-7.52/-10.98	-10.13/-11.24	-7.73/-6.90	-6.31/-6.57	-7.52/-7.01	-5.79/-5.92	-4.84/-4.18	-3.51/-3.37	-2.46/-1.13
Θ(75°)	-1.93/-1.71	-0.71/-0.22	-2.23/-6.95	-4.95/-4.61	-5.06/-2.57	-0.73/-1.11	-1.70/-0.67	-0.14/-0.35	-1.00/-1.76	-1.99/-2.09	-2.38/-3.78	-2.23/-5.46	-7.49/-9.79	-7.86/-8.67	-6.64/-8.68	-8.79/-5.99	-7.27/-10.12	-9.84/-6.92	-5.81/-6.22	-5.19/-5.41	-4.59/-4.42	-3.55/-4.49	-3.23/-3.13	-1.73/-1.73
Θ(82.5°)	-1.88/-2.02	-1.89/-2.47	-4.40/-9.49	-4.71/-4.26	-3.40/-1.23	-2.51/-4.35	-3.05/-1.48	-0.10/-0.43	-0.09/-3.50	-3.42/-3.85	-4.60/-9.64	-6.08/-8.15	-8.26/-7.94	-9.06/-6.59	-4.54/-7.20	-6.56/-5.29	-7.72/-7.81	-9.91/-10.58	-4.91/-7.59	-7.29/-5.18	-5.41/-3.75	-3.68/-4.75	-4.04/-2.88	-2.95/-3.28
Θ(90°)	-3.97/-2.03	-2.68/-3.62	-6.70/-8.60	-4.92/-4.57	-3.79/-3.41	-6.20/-7.36	-4.02/-1.62	-0.250/0.10	1.04/-1.89	-1.51/-2.74	-4.05/-7.63	-9.57/-8.21	-6.05/-7.17	-6.84/-6.03	-5.11/-4.37	-0.94/-2.70	-3.38/-10.22	-13.20/-7.82	-5.96/-6.47	-6.59/-3.69	-4.51/-4.37	-3.31/-5.73	-5.63/-1.90	-3.60/-3.05
Θ(97.5°)	-2.69/-0.51	-2.76/-2.45	-5.44/-4.85	-4.39/-5.47	-6.37/-5.16	-7.75/-7.06	-4.68/-2.15	-0.57/-0.02	0.53/-1.78	-1.69/-2.40	-1.33/-4.84	-4.99/-4.58	-4.40/-6.49	-5.37/-8.85	-10.91/-4.72	-0.600/0.60	-1.82/-8.08	-4.27/-4.91	-1.44/-4.54	-2.29/-4.42	-1.50/-3.05	-2.53/-3.16	-0.920/-1.10	-2.41/-2.66
Θ(105°)	-2.10/-3.54	-1.78/-4.61	-3.98/-4.24	-3.75/-4.65	-8.00/-7.05	-8.72/-11.97	-6.79/-4.88	-2.46/-1.34	-2.96/-6.68	-8.74/-6.29	-1.90/-4.19	-5.46/-6.92	-5.38/-6.65	-3.79/-8.24	-13.55/-13.88	-3.630/0.40	-0.73/-4.59	-4.40/-5.22	-3.41/-6.19	-6.13/-3.48	-3.37/-1.28	-1.73/-1.60	-1.36/-1.04	-2.21/-5.74
Θ(112.5°)	-1.77/-2.08	-0.51/-4.44	-2.95/-2.67	-4.00/-9.00	-9.61/-7.43	-6.57/-11.09	-10.48/-6.57	-5.07/-4.46	-8.87/-10.36	-11.28/-8.16	-5.48/-6.39	-7.22/-8.19	-6.76/-14.50	-14.46/-14.46	-14.78/-13.81	-7.470/0.06	-3.02/-4.01	-4.97/-2.75	-1.68/-3.38	-6.06/-1.00	-1.35/-3.74	-2.89/-2.22	0.20/-1.89	-2.21/-3.67
Θ(120°)	-2.92/-2.59	-0.92/-3.55	-4.41/-5.24	-3.93/-6.26	-7.29/-8.60	-11.01/-13.37	-12.62/-14.99	-13.79/-11.18	-8.75/-9.94	-12.04/-12.62	-11.30/-8.19	-6.91/-7.18	-7.71/-7.00	-11.43/-6.22	-9.94/-8.95	-7.41/-4.73	-1.57/-6.95	-8.770/0.82	-7.24/-8.09	-4.66/-0.66	-1.20/-1.89	-6.06/-4.84	-0.95/-3.17	-3.12/-4.32
Θ(127.5°)	-2.330/0.02	-0.20/-0.41	-3.17/-2.60	-8.79/-9.51	-9.39/-11.00	-10.08/-14.04	-15.44/-13.97	-13.17/-11.44	-11.99/-13.51	-12.19/-10.42	-9.29/-5.76	-4.92/-5.78	-10.69/-5.55	-8.19/-5.67	-13.08/-6.74	-4.89/-6.27	-0.05/-4.45	-3.993/0.00	-6.27/-5.63	-1.39/-1.71	-1.38/-1.40	-11.34/-1.71	-0.330/-9.90	-3.68/-1.17
Θ(135°)	-2.42/-0.47	-0.86/-1.38	-2.34/-4.78	-4.25/-6.69	-9.94/-15.38	-13.97/-11.42	-11.28/-11.71	-12.05/-11.39	-10.27/-10.09	-9.37/-9.52	-7.66/-7.59	-8.52/-6.46	-7.51/-10.90	-8.56/-12.00	-10.25/-4.63	-4.49/-3.85	-0.62/-6.02	-4.293/7.76	-4.15/-5.73	-2.52/-8.04	-0.58/-9.76	-3.81/-6.03	0.03/-1.88	-3.34/-2.19
Θ(142.5°)	-7.15/-4.85	-2.54/-2.22	-3.46/-7.84	-6.28/-4.52	-6.61/-0.01	-8.38/-8.69	-9.06/-10.83	-15.84/-14.77	-15.38/-13.65	-10.79/-13.16	-9.44/-9.39	-7.57/-13.08	-13.80/-12.65	-9.96/-6.24	-8.40/-10.22	-5.03/-6.31	-2.00/-1.99	-4.03/-8.04	-1.98/-2.88	-5.34/-5.62	-9.36/-4.91	-1.72/-1.90	-5.29/-4.21	
Θ(150°)	-4.22/-3.13	-4.54/-7.77	-7.56/-10.48	-13.34/-14.39	-14.10/-13.24	-11.97/-14.39	-15.23/-14.72	-15.04/-14.67	-13.07/-12.82	-11.49/-11.55	-12.04/-14.54	-16.01/-14.93	-13.29/-12.13	-14.63/-15.47	-7.00/-12.75	-13.44/-7.79	-3.60/-2.07	-4.43/-12.44	-9.44/-5.72	-7.16/-6.75	-2.50/-3.88	-3.93/-4.72	-8.94/-8.28	
Θ(157.5°)	-1.69/-0.21	-1.31/-3.08	-4.55/-5.03	-7.13/-10.81	-12.61/-13.42	-12.26/-11.61	-14.61/-15.62	-13.33/-13.40	-14.20/-13.43	-14.01/-15.28	-15.66/-12.33	-9.72/-8.09	-6.65/-5.86	-7.49/-8.23	-5.60/-5.54	-9.16/-11.03	-6.87/-2.48	-0.98/-3.76	-13.65/-12.87	-14.80/-10.85	-8.57/-10.00	-7.83/-8.47	-9.84/-8.67	-6.17/-4.39
Θ(165°)	-6.11/-5.04	-4.83/-5.59	-7.30/-10.38	-11.38/-13.30	-14.66/-14.79	-13.94/-15.12	-14.16/-11.26	-11.62/-14.53	-15.61/-16.31	-15.47/-12.36	-10.23/-8.93	-8.84/-8.51	-7.96/-7.72	-8.13/-10.04	-12.72/-7.99	-4.86/-3.98	-3.36/-2.79	-2.95/-4.40	-7.47/-8.90	-10.60/-10.49	-10.27/-8.90	-7.51/-6.67	-7.08/-8.02	-8.68/-0.72
Θ(172.5°)	-11.75/-11.36	-11.25/-12.32	-14.53/-13.19	-14.83/-15.21	-13.12/-13.66	-15.54/-15.32	-15.21/-14.37	-15.03/-15.96	-15.09/-14.87	-12.51/-11.87	-11.55/-11.70	-10.67/-9.90	-9.48/-9.30	-9.04/-8.20	-7.05/-4.92	-3.90/-3.41	-3.74/-4.46	-5.96/-7.53	-9.68/-10.71	-10.17/-9.41	-8.63/-7.76	-6.12/-4.92	-5.92/-7.69	-10.90/-11.25
Θ(180°)	-14.85/-13.88	-15.27/-12.79	-13.05/-14.25	-15.20/-15.28	-14.84/-13.11	-11.25/-11.24	-9.90/-10.20	-10.61/-11.24	-11.17/-11.02	-10.54/-10.32	-10.67/-10.78	-11.69/-11.73	-11.25/-11.10	-10.45/-10.40	-10.53/-11.34	-12.12/-11.57	-10.89/-10.59	-10.48/-10.18	-10.18/-10.71	-11.49/-10.91	-10.74/-10.79	-10.35/-9.86	-9.71/-10.13	-9.78/-12.18
Freq(Hz)	6.995GPol.	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°)	-5.72/-6.33	-6.90/-6.74	-6.29/-7.80	-7.86/-7.72	-7.89/-7.74	-7.31/-7.10	-6.48/-6.18	-6.01/-6.38	-6.95/-6.91	-6.60/-6.45	-6.54/-6.70	-6.28/-6.36	-6.12/-6.15	-6.18/-6.28	-5.82/-6.36	-6.10/-6.76	-6.87/-7.01	-6.92/-7.15	-7.45/-7.65	-7.70/-7.30	-6.82/-6.52	-6.55/-7.40	-7.40/-7.39	-6.11/-6.64
Θ(7.5°)	-5.42/-6.08	-7.29/-5.41	-5.81/-6.76	-6.52/-6.47	-6.42/-6.39	-6.84/-7.23	-7.35/-7.27	-7.05/-6.86	-6.42/-6.67	-6.80/-6.88	-7.23/-6.82	-6.82/-6.52	-6.50/-6.73	-7.15/-6.92	-6.96/-7.03	-7.02/-7.07	-7.02/-6.94	-7.07/-6.94	-6.71/-6.97	-7.01/-6.63	-6.63/-6.91	-7.04/-8.31	-8.34/-1.78	-5.80/-6.54
Θ(15°)	-3.84/-4.35	-4.48/-3.37	-4.13/-4.33	-4.82/-5.34	-5.75/-6.03	-6.72/-6.59	-5.07/-4.72	-4.25/-4.11	-3.94/-4.06	-4.73/-5.88	-7.25/-6.51	-5.44/-8.01	-7.05/-6.62	-6.37/-6.39	-5.66/-7.13	-7.89/-8.21	-8.14/-8.04	-7.71/-4.97	-6.54/-6.06	-6.37/-7.01	-7.01/-7.30	-6.30/-5.35	-4.33/-4.22	
Θ(22.5°)	-3.16/-3.63	-3.14/-3.18	-3.20/-4.57	-5.16/-5.80	-6.37/-6.17	-5.33/-4.28	-3.58/-3.07	-2.72/-2.78	-3.03/-3.04	-3.19/-3.22	-3.42/-3.61	-3.84/-4.55	-5.79/-7.36	-7.46/-7.04	-6.85/-8.18	-9.24/-10.06	-9.38/-10.10	-10.23/-9.86	-9.70/-8.44	-7.44/-6.82	-6.51/-6.42	-6.71/-6.89	-5.73/-5.67	-4.31/-3.41
Θ(30°)	-4.90/-5.14	-5.77/-5.69	-5.98/-6.11	-6.63/-6.12	-9.13/-6.99	-4.91/-3.78	-3.62/-3.86	-3.85/-3.75	-3.97/-4.44	-4.77/-4.51	-4.23/-4.30	-4.68/-4.52	-5.07/-6.78	-8.45/-9.52	-10.52/-10.69	-10.48/-9.26	-10.66/-12.58	-11.71/-11.04	-10.13/-8.65	-7.51/-6.59	-5.23/-6.40	-5.27/-5.10	-5.26/-6.33	-5.81/-6.49
Θ(37.5°)	-4.40/-4.51	-4.68/-5.23	-5.50/-6.95	-7.95/-8.09	-5.44/-2.42	-0.48/-0.03	-0.35/-1.03	-1.89/-2.27	-2.12/-2.66	-3.47/-4.58	-5.64/-6.15	-6.12/-5.42	-5.72/-6.20	-6.72/-9.43	-10.85/-10.56	-10.67/-12.57	-13.01/-12.64	-13.31/-15.52	-13.82/-13.79	-13.17/-10.94	-8.77/-6.45	-4.53/-3.69	-4.45/-5.25	-6.02/-5.49
Θ(45°)	-4.45/-3.32	-5.17/-5.58	-4.07/-4.59	-5.42/-5.12	-2.40/-0.27	0.09/-0.23	-0.50/-0.11	0.54/-1.14	1.150/0.94	-0.20/-1.01	-2.93/-4.33	-5.22/-5.52	-4.68/-3.05	-4.12/-6.03	-7.72/-10.30	-9.99/-11.65	-15.22/-15.61	-13.69/-11.33	-12.92/-12.86	-9.09/-8.17	-6.56/-6.20	-6.83/-5.64	-5.78/-6.05	-8.28/-0.77
Θ(52.5°)	-2.08/-2.76	-6.59/-5.38	-3.74/-5.01	-6.20/-4.03	-2.56/-1.76	-1.99/-3.62	-3.88/-3.15	-2.54/-1.25	-0.56/-1.54	-3.40/-3.84	-2.10/-6.72	-1.47/-3.65	-4.24/-3.71	-4.90/-6.02	-9.58/-11.46	-11.16/-15.43	-14.69/-15.21	-15.92/-15.21	-12.41/-11.77	-11.72/-8.67	-7.01/-4.43	-4.03/-3.47	-5.92/-5.95	-5.35/-2.72
Θ(60°)	0.06/-0.74	-2.40/-3.02	-1.56/-3.24	-6.56/-4.97	-3.27/-3.92	-5.67/-6.19	-4.75/-2.89	-1.98/-2.60	-4.30/-5.58	-5.56/-5.34	-4.35/-2.37	-1.43/-2.02	-4.28/-6.06	-6.68/-8.07	-8.14/-8.58	-8.15/-12.46	-14.61/-14.92	-15.15/-13.10	-15.76/-13.62	-11.51/-10.42	-7.95/-5.85	-5.38/-2.52	-3.27/-3.30	-2.26/-0.18
Θ(67.5°)	-0.05/-1.37	-2.05/-1.59	-0.72/-0.85	-7.78/-4.48	-5.71/-6.66	-4.78/-2.57	-1.40/-0.89	-0.28/-1.37	-2.06/-2.82	-3.14/-3.75	-2.25/-1.68	-1.34/-3.75	-3.88/-5.47	-11.28/-6.92	-8.21/-4.99	-9.33/-9.35	-15.08/-15.19	-12.26/-11.18	-9.51/-10.62	-10.78/-8.70	-5.98/-4.87	-5.51/-5.26	-2.43/-1.99	-0.58/-0.16
Θ(75°)	-2.66/-2.80	-1.47/-1.84	-1.67/-4.02	-6.29/-4.49	-3.89/-3.37	-2.07/-1.29	-0.50/-0.25	0.180/0																

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

