



Antenna Pattern

Appendix B.1

Mode 1 Total Gain Data

Freq(Hz)	2.45GPol.	TotalAnt.1	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	
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Antenna Pattern

Appendix B.1

Θ(7.5°)	-15.54/-13.43	-13.19/-13.42	-12.63/-11.35	-10.88/-10.63	-9.91/-10.54	-10.20/-10.00	-9.99/-9.01	-8.83/-8.51	-8.41/-8.45	-7.30/-7.81	-6.59/-6.57	-7.34/-6.24	-7.18/-7.39	-6.92/-7.18	-7.07/-7.38	-8.01/-7.38	-7.61/-6.38	-6.49/-6.22	-6.79/-7.95	-8.07/-9.44	-10.03/-12.07	-13.16/-14.46	-13.42/-15.46	-14.35/-14.85
Θ(15°)	-12.67/-12.95	-14.97/-15.36	-14.24/-13.95	-12.08/-10.23	-8.86/-10.52	-9.63/-10.52	-11.00/-10.47	-11.01/-8.32	-6.42/-8.57	-5.31/-6.00	-5.90/-6.22	-5.91/-6.70	-6.17/-6.26	-5.54/-5.18	-6.30/-7.82	-9.96/-12.82	-11.02/-8.82	-7.14/-7.50	-5.90/-6.78	-8.25/-10.81	-13.17/-14.73	-14.00/-12.17	-10.30/-11.29	-9.50/-13.50
Θ(22.5°)	-13.52/-10.67	-10.19/-10.86	-8.56/-14.91	-8.60/-9.65	-11.29/-12.07	-11.59/-10.75	-8.88/-8.19	-6.70/-15.99	-6.33/-7.80	-8.83/-11.06	-11.78/-10.55	-6.81/-5.81	-4.47/-5.46	-7.46/-8.77	-11.63/-9.20	-10.39/-11.56	-15.80/-12.70	-8.87/-7.99	-10.21/-11.02	-12.98/-15.58	-14.88/-11.44	-14.00/-12.07	-12.26/-10.41	-12.48/-11.98
Θ(30°)	-8.59/-10.34	-7.43/-8.63	-10.68/-9.56	-8.16/-7.81	-6.73/-4.65	-4.48/-5.25	-7.80/-7.44	-6.52/-7.29	-7.70/-7.01	-6.58/-5.39	-8.23/-7.89	-8.63/-7.15	-5.27/-5.05	-4.66/-5.68	-7.37/-9.20	-12.41/-11.82	-11.93/-13.25	-14.93/-9.30	-7.72/-10.72	-15.64/-13.09	-10.06/-14.42	-10.26/-9.35	-9.35/-11.48	-10.50/-10.97
Θ(37.5°)	-2.78/-4.36	-6.92/-4.47	-3.64/-6.45	-6.58/-8.83	-8.91/-7.22	-10.81/-7.75	-6.36/-6.49	-5.03/-3.66	-8.99/-3.48	-7.05/-16.04	-15.42/-11.41	-10.42/-8.55	-6.44/-6.05	-10.34/-14.98	-9.01/-6.83	-8.74/-13.33	-10.72/-12.50	-10.11/-5.85	-9.38/-15.60	-7.61/-5.49	-9.74/-11.18	-7.92/-7.33	-8.29/-3.84	-3.09/-8.24
Θ(45°)	-13.63/-9.26	-11.00/-10.70	-7.74/-8.54	-6.03/-5.73	-6.89/-5.87	-10.37/-9.26	-7.23/-10.69	-7.28/-10.11	-6.88/-7.05	-14.15/-7.95	-5.92/-8.33	-7.94/-7.25	-10.80/-9.77	-16.07/-13.36	-11.85/-8.33	-8.79/-15.89	-10.75/-13.04	-10.05/-10.30	-14.20/-11.66	-7.44/-5.02	-6.71/-7.02	-10.01/-11.66		
Θ(52.5°)	-8.76/-11.16	-8.57/-7.38	-5.62/-13.61	-12.34/-9.70	-7.83/-8.74	-9.30/-5.48	-8.28/-8.81	-9.63/-10.55	-7.59/-12.64	-9.38/-7.54	-9.31/-10.35	-8.87/-13.48	-11.84/-12.24	-12.69/-11.20	-12.29/-14.37	-9.37/-15.13	-12.22/-13.63	-11.99/-8.25	-8.49/-13.75	-15.52/-11.54	-7.80/-9.10	-7.48/-9.09	-12.33/-7.38	-7.67/-12.15
Θ(60°)	-7.67/-5.83	-4.38/-3.29	-1.08/-3.97	-5.87/-6.55	-9.51/-8.12	-14.27/-10.00	-8.37/-9.03	-11.05/-9.52	-4.35/-9.62	-8.34/-3.76	-6.26/-9.53	-15.39/-8.20	-3.72/-10.69	-7.18/-3.48	-4.98/-10.15	-6.16/-7.78	-8.23/-12.29	-7.02/-8.42	-6.51/-15.36	-11.35/-10.96	-13.31/-6.34	-6.58/-9.24	-2.78/-1.46	-4.33/-4.41
Θ(67.5°)	-2.58/-2.43	-6.19/-5.54	-4.43/-5.63	-6.25/-6.08	-6.08/-7.89	-13.39/-5.95	-10.57/-7.36	-9.56/-6.68	-6.56/-7.91	-4.47/-2.59	-4.59/-6.68	-1.870.27	-0.64/-1.64	-4.27/-2.20	-0.56/-3.45	-4.35/-2.53	-5.00/-4.16	-5.53/-4.07	-10.96/-8.84	-7.28/-7.02	-8.82/-3.17	-0.68/-1.47	-0.15/-1.25	-1.45/-1.98
Θ(75°)	-2.36/-2.40	-6.72/-11.91	-13.43/-7.02	-9.76/-14.71	-8.38/-5.56	-9.84/-2.82	-7.32/-4.10	-5.95/-2.56	-3.82/-1.76	-0.350.93	-0.99/-0.81	0.152.82	1.600.77	-0.48/-0.64	0.56/-1.08	-1.56/-5.30	-1.55/-1.62	-6.96/-2.04	-7.62/-3.79	-7.01/-10.56	-6.11/-5.08	-2.15/-5.92	-4.27/-5.81	-4.16/-3.63
Θ(82.5°)	-1.59/-1.91	-5.04/-2.17	-2.00/-1.11	-2.31/-6.64	-6.75/-7.40	-5.93/-1.31	-1.94/-2.42	-3.72/-0.69	-0.560.02	0.94/-1.48	-1.620.55	-1.340.77	2.87/-0.37	-0.94/-0.30	0.98/-0.05	-1.19/-3.51	-0.65/-5.07	-1.33/-0.37	-1.700.15	-1.92/-4.14	-13.46/-5.85	-6.25/-4.86	-8.62/-3.49	-2.35/-5.50
Θ(90°)	-2.46/-4.04	-6.19/-5.54	0.08/-2.31	-4.04/-3.14	-4.87/-5.04	-1.790.28	-1.320.24	-1.31/-0.57	-3.43/-1.64	0.151.19	1.11/-0.04	0.151.55	2.47/-2.63	-1.17/-1.89	1.970.71	-1.52/-2.85	-1.92/-3.37	1.35/-1.06	-0.880.26	1.04/-1.83	-2.43/-2.02	-1.09/-4.23	-2.91/-3.42	-2.92/-3.43
Θ(97.5°)	-8.81/-7.32	-5.46/-4.72	-2.37/-1.76	-3.60/-7.92	-3.93/-2.75	-3.55/-1.20	-1.000.43	-0.682.76	-1.03/-1.69	-1.712.09	2.303.19	0.061.30	4.742.74	-0.302.73	1.90/-1.80	-1.50/-2.50	-0.61/-0.84	-0.14/-0.43	0.03/-1.41	1.43/-4.30	-3.12/-3.42	0.12/-5.54	-0.14/-4.64	-6.43/-5.43
Θ(105°)	-3.94/-1.45	-3.25/-2.61	0.69/-1.53	-1.19/-1.30	-2.48/-1.77	-3.700.94	0.98/-1.25	-2.20/-1.01	-1.62/-1.36	-1.99/-3.27	-0.880.47	-3.34/-3.41	2.94/-1.11	-2.52/-2.48	-0.64/-1.62	-2.54/-0.25	-3.20/-1.72	-2.05/-3.52	-3.470.55	1.06/-4.48	-0.62/-0.97	-7.34/-5.16	1.51/-9.43	-5.77/-6.45
Θ(112.5°)	-1.410.57	-4.37/-2.98	-0.33/-1.76	-1.70/-0.76	-2.29/-2.05	-4.61/-0.09	-0.113.10	-4.10/-2.25	-4.83/-4.75	-2.26/-4.98	-5.11/-3.59	-12.29/-12.07	-6.25/-2.51	-10.50/-11.78	-10.19/-0.73	-3.14/-3.77	-4.56/-4.87	-7.20/-6.34	-6.32/-0.23	-1.75/-8.83	-6.63/-1.53	-9.28/-4.12	-1.88/-7.03	-4.26/-11.61
Θ(120°)	-4.45/-3.30	-2.27/-7.98	-3.03/-7.93	-6.56/-9.18	-7.25/-4.19	-13.02/-5.64	-6.18/-6.23	-8.53/-14.46	-13.24/-11.02	-6.57/-3.57	-2.19/-4.80	-4.89/-5.67	-9.10/-5.87	-8.29/-5.32	-9.53/-5.61	-11.32/-10.49	-7.05/-8.31	-13.01/-8.56	-5.02/-2.61	-3.31/-13.76	-10.55/-1.37	-8.17/-4.47	-9.31/-2.33	-10.42/-6.68
Θ(127.5°)	-1.32/-1.47	-4.07/-1.12	-3.64/-9.96	-7.85/-7.88	-7.82/-7.38	-11.39/-10.50	-12.11/-7.78	-8.09/-12.02	-8.29/-14.12	-13.43/-9.35	-6.19/-4.95	-7.90/-3.77	-3.98/-6.74	-4.53/-9.26	-12.45/-12.53	-13.37/-9.87	-7.27/-4.06	-2.77/-6.84	-12.16/-10.58	-10.85/-8.78	-12.71/-7.07	-7.04/-6.90	-12.12/-5.11	
Θ(135°)	-10.68/-11.39	-7.69/-4.72	-3.70/-3.57	-7.29/-8.03	-8.71/-8.08	-10.65/-13.31	-11.68/-10.05	-7.40/-6.28	-5.84/-5.92	-10.92/-11.40	-10.92/-10.57	-10.29/-10.95	-5.47/-7.40	-10.71/-11.18	-15.40/-9.89	-11.10/-14.12	-9.03/-5.42	-8.76/-6.41	-12.77/-10.15	-9.28/-11.58	-11.69/-12.72	-12.95/-7.44	-9.46/-5.30	-3.40/-1.55
Θ(142.5°)	-7.57/-8.78	-13.65/-10.16	-9.98/-7.58	-7.64/-9.34	-7.94/-7.92	-8.87/-10.29	-7.41/-8.98	-5.53/-3.15	-4.07/-4.93	-6.12/-5.54	-8.43/-13.42	-15.37/-10.59	-12.64/-10.06	-13.79/-10.23	-6.70/-8.55	-7.22/-6.25	-7.64/-6.27	-12.14/-11.37	-15.11/-10.41	-14.68/-15.44	-11.35/-8.79	-10.87/-14.69	-8.20/-4.59	-5.35/-9.45
Θ(150°)	-8.08/-7.89	-8.51/-10.99	-8.54/-6.80	-5.65/-6.80	-7.03/-6.48	-5.84/-10.05	-6.95/-5.40	-3.74/-1.60	-2.37/-3.94	-1.80/-0.98	-1.33/-4.94	-6.27/-7.96	-6.97/-11.39	-3.78/-4.80	-2.01/-2.42	-4.36/-3.21	-6.93/-6.82	-8.49/-9.08	-9.35/-7.32	-8.95/-10.02	-8.67/-6.66	-5.60/-6.39	-6.79/-7.07	-7.09/-6.38
Θ(157.5°)	-3.14/-3.85	-5.37/-5.52	-5.11/-3.29	-3.92/-4.65	-5.27/-6.58	-8.62/-11.35	-10.76/-7.61	-4.58/-3.50	-2.88/-2.06	-1.87/-1.64	-1.12/-0.52	-1.92/-2.60	-4.21/-3.68	-5.39/-3.45	-1.45/-3.45	-5.41/-6.55	-5.31/-4.44	-5.48/-7.42	-7.47/-7.32	-10.40/-13.57	-15.07/-11.13	-15.35/-13.52	-8.57/-9.27	-5.41/-4.36
Θ(165°)	-5.72/-4.80	-3.98/-2.57	-2.82/-3.87	-6.17/-8.42	-9.62/-10.21	-11.94/-12.00	-13.00/-12.61	-11.57/-9.44	-6.76/-4.84	-3.44/-2.19	-2.19/-1.84	-1.39/-2.68	-4.53/-5.70	-3.28/-3.21	-5.58/-5.82	-6.30/-7.62	-5.15/-5.36	-6.09/-6.70	-10.21/-9.80	-8.99/-11.74	-10.38/-7.75	-7.57/-7.14	-8.27/-6.45	-6.46/-5.84
Θ(172.5°)	-8.89/-6.36	-8.53/-8.40	-8.33/-10.23	-11.74/-13.14	-13.67/-14.06	-14.48/-13.59	-13.62/-12.00	-10.94/-10.48	-10.03/-10.45	-9.53/-9.31	-7.18/-7.50	-8.46/-7.69	-5.88/-4.23	-7.51/-12.93	-9.26/-7.77	-8.97/-10.93	-10.08/-10.04	-12.05/-15.57	-15.68/-8.92	-6.94/-4.73	-7.98/-10.53	-10.63/-11.03	-10.40/-10.50	-11.09/-10.38
Θ(180°)	-14.16/-13.82	-11.53/-12.51	-14.25/-14.60	-15.52/-14.21	-13.66/-12.36	-12.09/-12.19	-13.37/-14.25	-13.50/-14.59	-13.65/-12.66	-14.39/-11.92	-13.28/-13.02	-13.10/-8.64	-7.79/-8.06	-12.03/-13.85	-10.05/-10.18	-12.92/-15.21	-15.59/-12.70	-10.83/-10.10	-10.34/-9.59	-12.39/-13.30	-12.92/-12.70	-12.29/-11.98	-11.86/-12.89	-13.03/-11.68
Freq(Hz)	5.3GPol.	Total/Ant. 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°)	-8.97/-7.62	-7.87/-7.18	-7.70/-9.71	-7.73/-7.73	-7.59/-7.85	-7.59/-7.09	-7.00/-7.09	-7.84/-6.44	-7.72/-8.22	-6.77/-8.43	-8.27/-1.95	-8.78/-9.55	-9.19/-9.40	-9.27/-9.76	-9.81/-9.91	-8.64/-8.59	-8.41/-8.49	-9.28/-8.82	-8.74/-9.88	-8.75/-9.04	-8.33/-9.22	-8.17/-9.96	-8.83/-8.86	-8.30/-8.16
Θ(7.5°)	-14.70/-15.31	-14.58/-12.02	-11.72/-11.32	-11.65/-11.90	-11.45/-10.70	-10.45/-10.59	-10.97/-9.48	-10.49/-10.84	-9.27/-10.13	-8.63/-8.72	-7.83/-8.89	-8.24/-8.90	-9.20/-8.76	-9.43/-8.76	-8.92/-9.53	-8.21/-6.96	-6.67/-6.61	-7.69/-7.10	-8.15/-8.06	-10.39/-9.40	-11.89/-13.13	-15.54/-15.47	-15.20/-15.91	
Θ(15°)	-10.77/-11.43	-11.50/-11.05	-10.15/-9.23	-8.91/-10.66	-10.00/-9.29	-9.56/-11.61	-11.49/-9.47	-6.35/-5.25	-5.14/-4.55	-6.01/-6.09	-8.42/-8.77	-9.79/-8.77	-9.39/-9.28	-8.88/-7.49	-6.64/-6.65	-7.84/-9.15	-12.76/-14.16	-10.34/-6.75	-6.34/-8.42	-7.80/-10.73	-12.80/-12.79	-15.19/-10.85	-11.75/-9.55	-9.81/-9.87
Θ(22.5°)	-9.75/-10.53	-8.99/-7.98	-8.44/-7.59	-7.56/-10.21	-9.43/-8.29	-7.49/-8.55	-8.26/-6.95	-5.71/-5.51	-7.07/-7.13	-9.44/-8.68	-8.67/-7.35	-7.26/-4.17	-2.91/-2.77	-4.18/-5.99	-8.45/-6.89	-7.83/-8.55	-14.21/-14.81	-14.44/-11.41	-7.06/-7.88	-10.75/-13.15	-12.80/-10.95	-9.29/-10.46	-9.36/-11.41	-10.18/-12.67
Θ(30°)	-8.59/-8.62	-8.63/-7.56	-7.07/-7.59	-5.89/-5.29	-3.36/-3.65	-4.44/-8.22	-19.18/-7.30	-5.42/-5.60	-7.02/-4.49	-3.56/-6.72	-5.53/-9.42	-5.15/-5.60	-5.99/-6.28	-5.34/-4.12	-4.78/-5.84	-8.47/-9.85	-8.38/-11.66	-12.79/-12.62	-8.42/-10.33	-15.10/-11.64	-10.77/-8.16	-9.58/-7.93	-7.65/-8.16	-8.44/-7.21
Θ(37.5°)	-5.29/-5.51	-5.88/-4.04	-5.60/-6.13	-6.65/-11.84	-5.54/-6.16	-5.56/-3.61	-5.62/-6.37	-5.35/-9.68	-3.32/-2.97	-4.74/-4.23	-7.24/-8.33	-5.27/-7.29	-5.45/-8.55	-9.76/-7.95	-7.47/-9.05	-8.05/-8.05	-12.57/-9.71	-6.61/-10.74	-10.21/-6.93	-7.42/-10.11	-8.55/-8.36	-6.98/-4.94	-4.33/-4.43	
Θ(45°)	-12.45/-7.31	-9.45/-8.20	-6.17/-7.72	-4.23/-6.59	-5.41/-7.99	-9.40/-7.08	-8.82/-9.01	-6.42/-8.81	-7.19/-11.16	-11.57/-4.53	-5.39/-8.59	-12.90/-10.83	-7.91/-9.23	-8.84/-14.00	-13.75/-13.64	-9.44/-12.93	-9.53/-11.76	-12.85/-12.41	-10.79/-11.68	-11.50/-12.66	-14.10/-13.32	-8.91/-6.55	-5.77/-6.77	-9.39/-10.47
Θ(52.5°)	-6.35/-8.78	-13.43/-7.91	-12.43/-15.16	-12.35/-8.91	-5.57/-8.95	-6.07/-8.98	-9.48/-7.34	-9.31/-6.49	-6.17/-11.89	-4.44/-4.16	-1.99/-15.27	-15.21/-11.01	-10.72/-13.16	-14.67/-8.91	-14.84/-12.70	-12.50/-11.20	-16.03/-15.50	-12.59/-12.27	-11.05/-14.73	-7.64/-8.63	-8.16/-11.12	-13.59/-10.86	-9.08/-8.29	
Θ(60°)	-1.406/-6.20	-6.07/-2.15																						

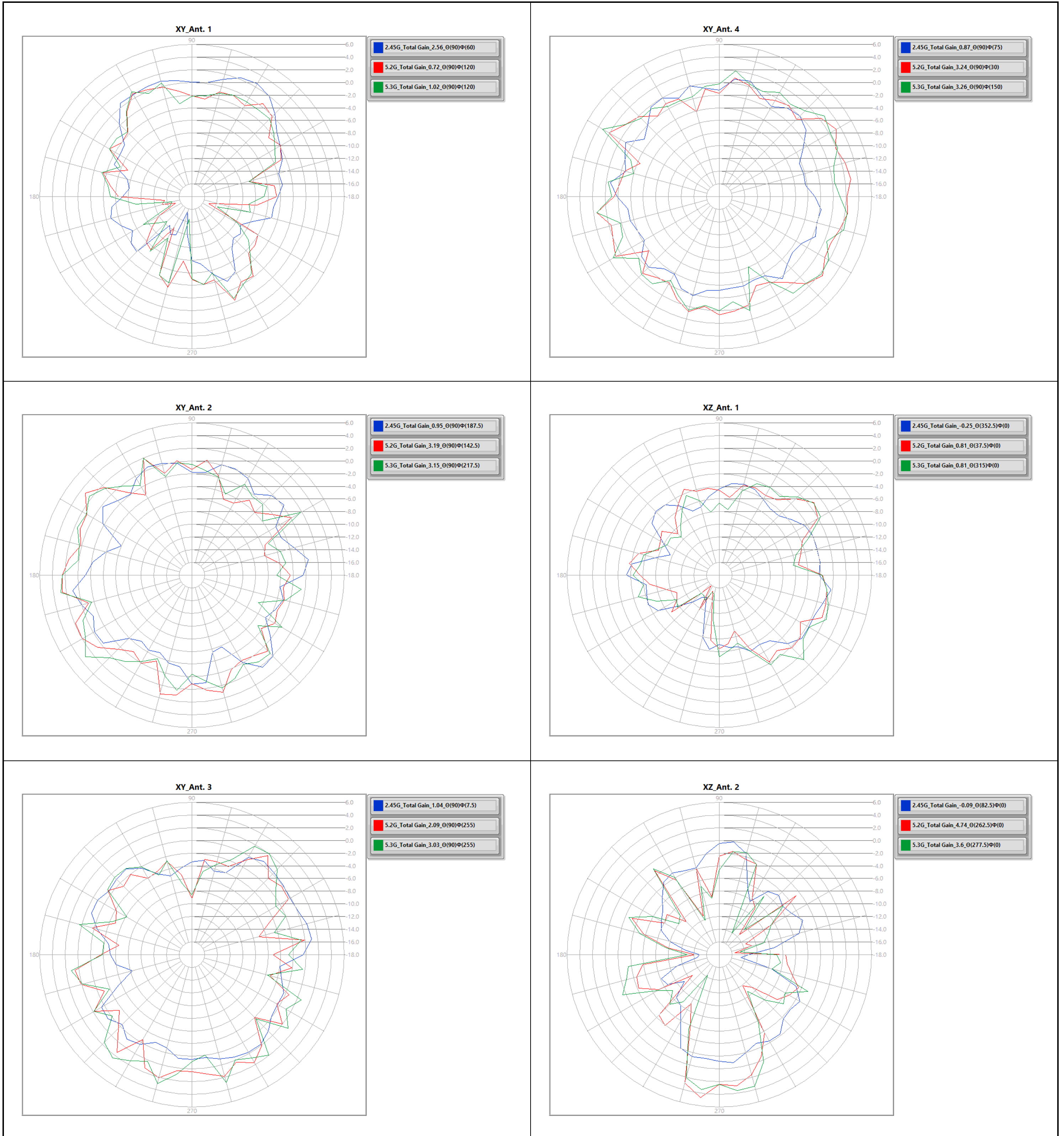


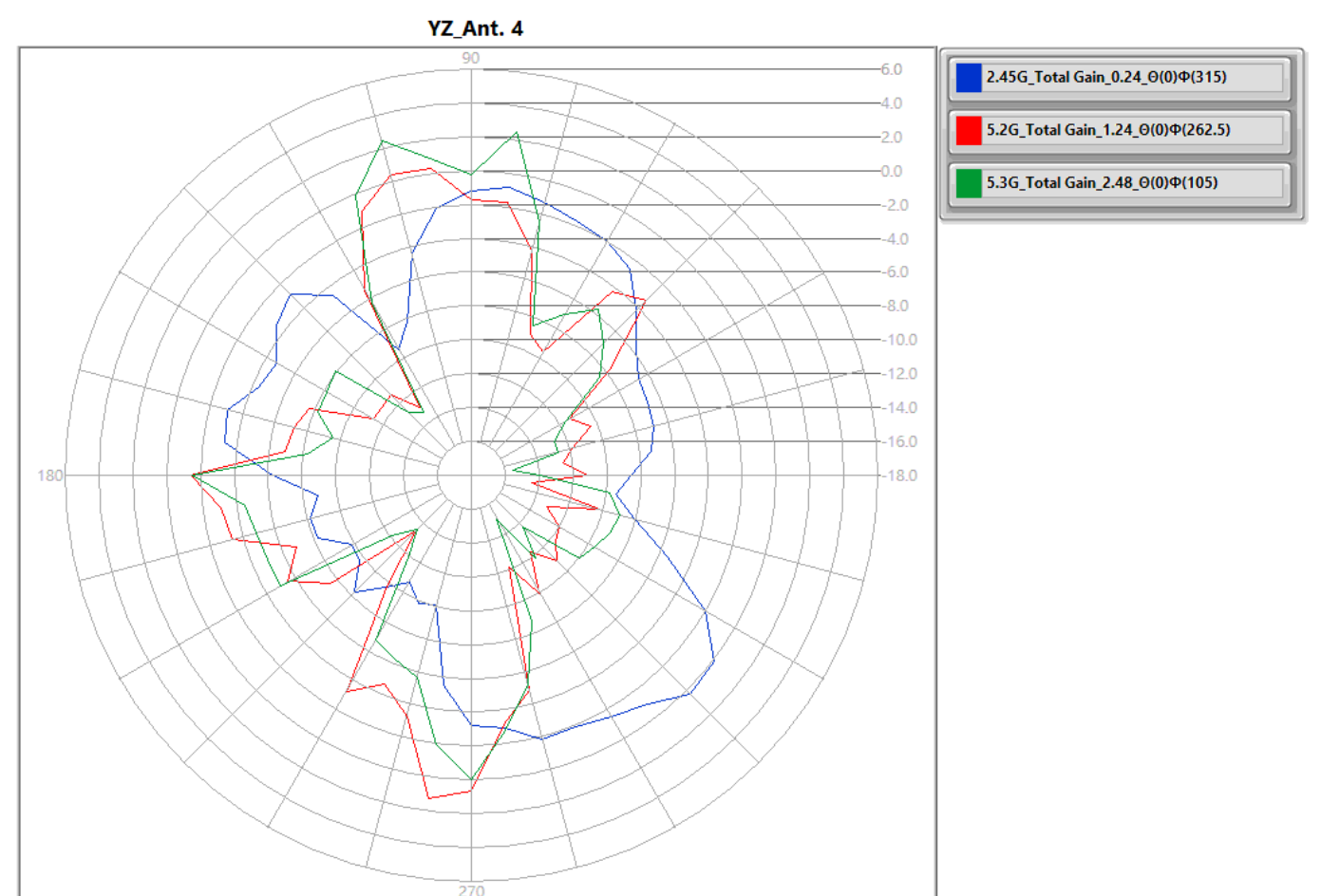
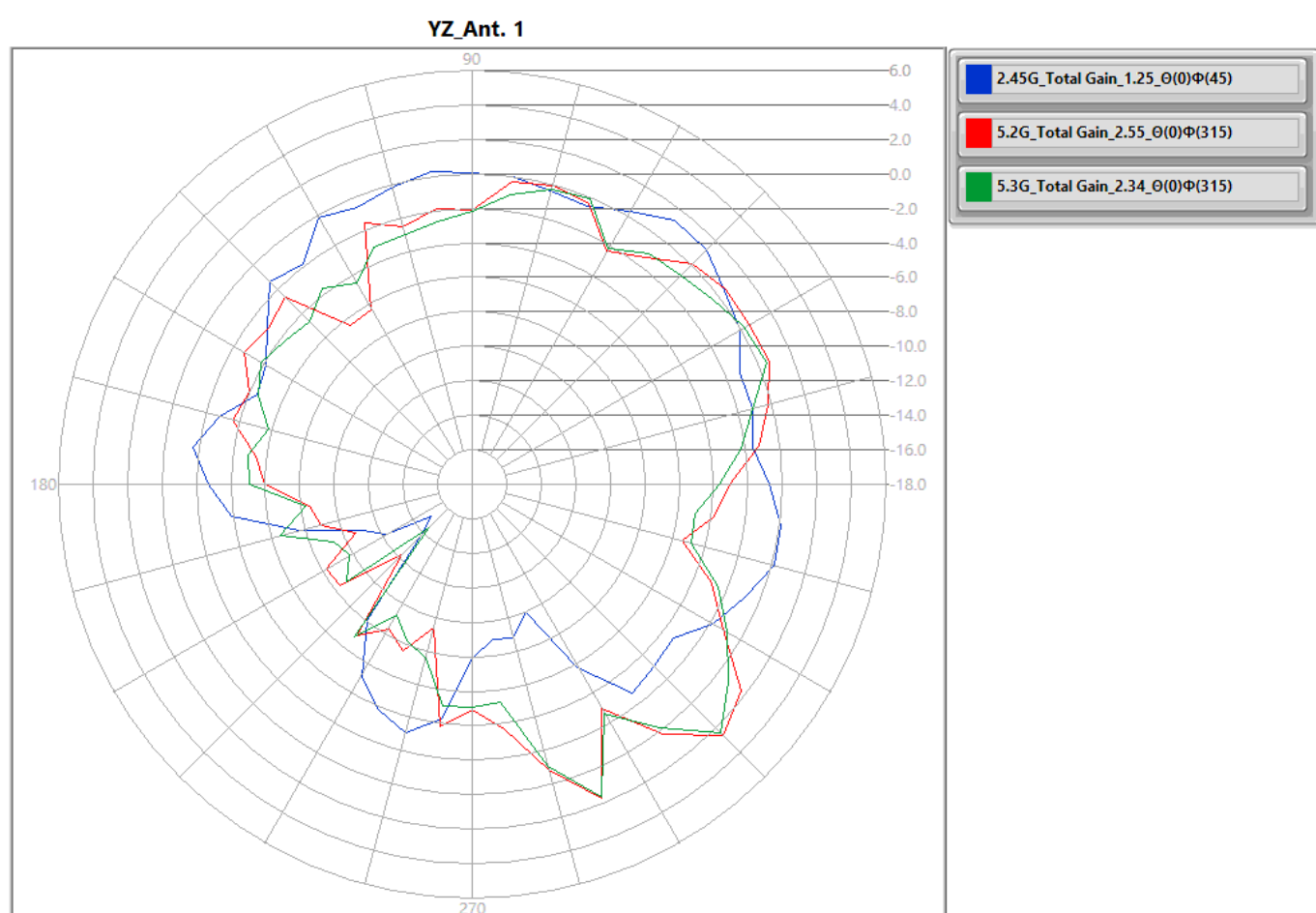
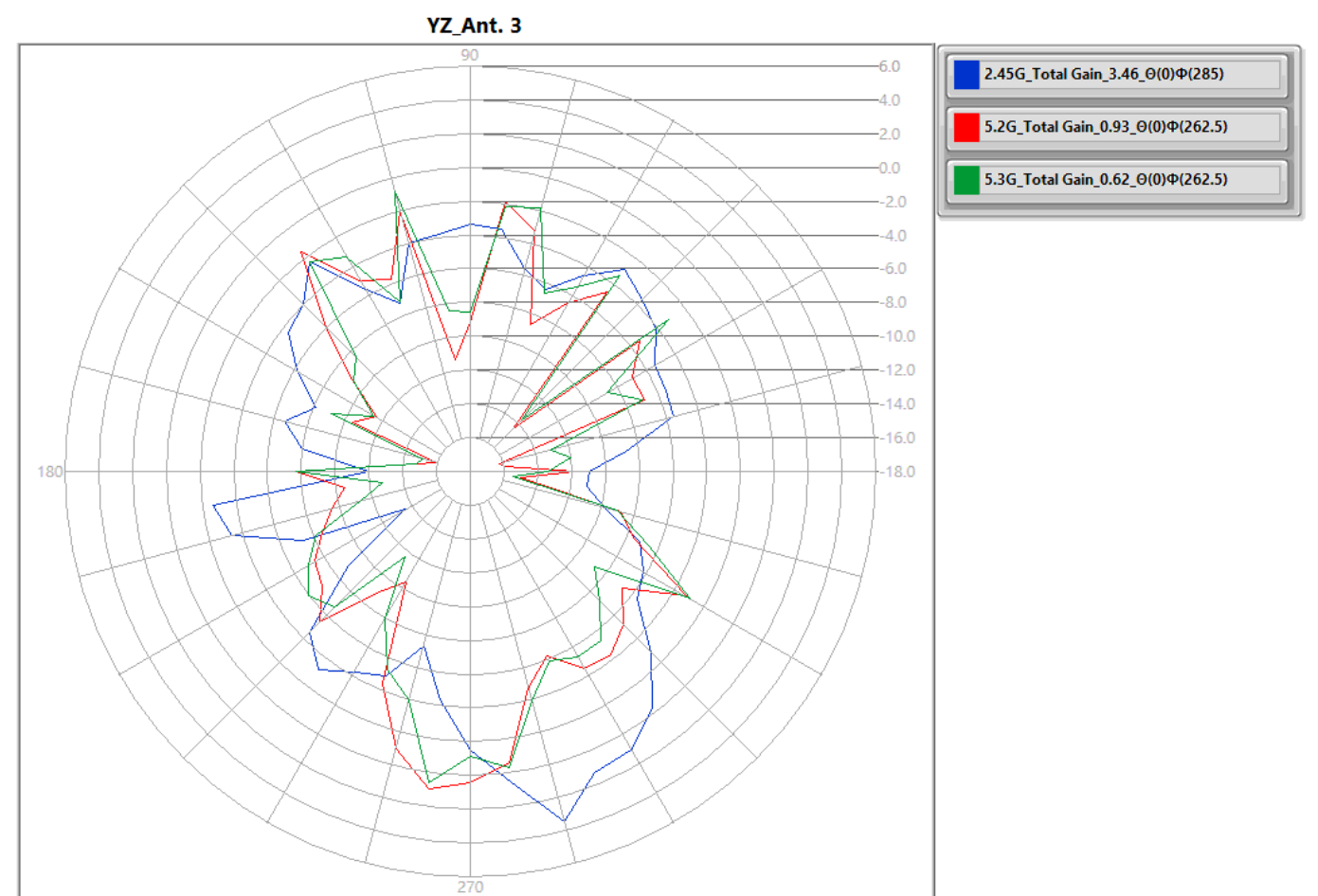
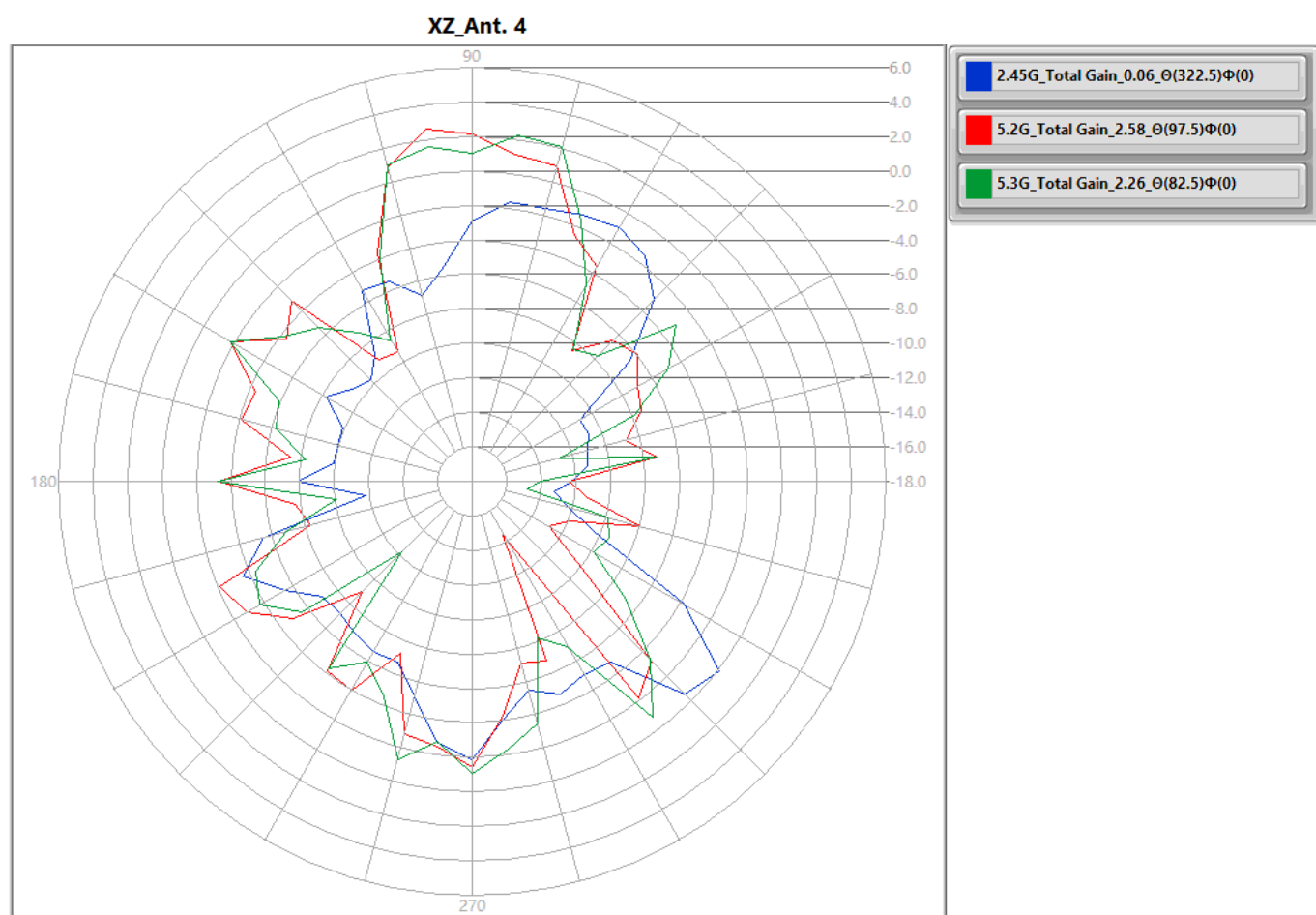
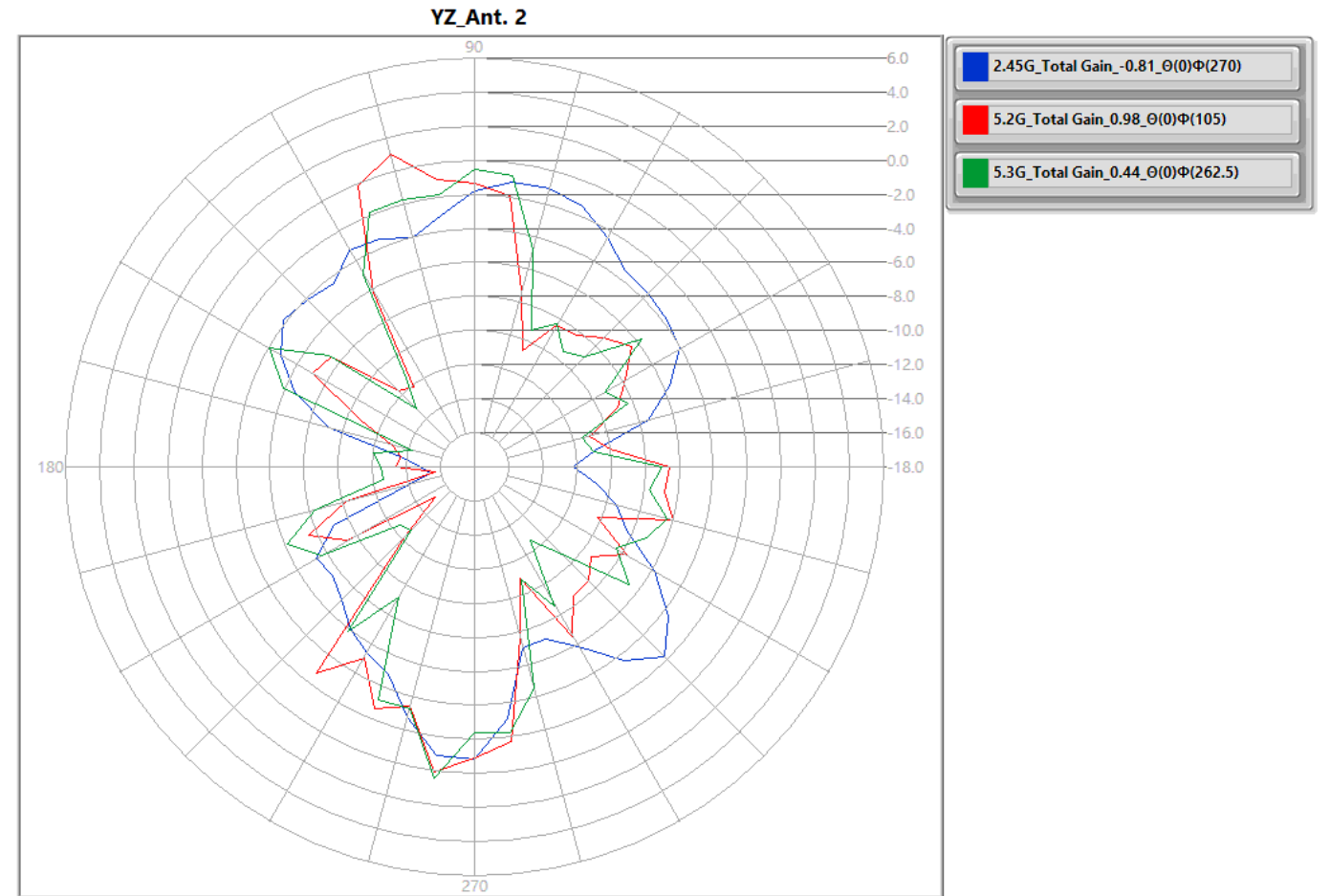
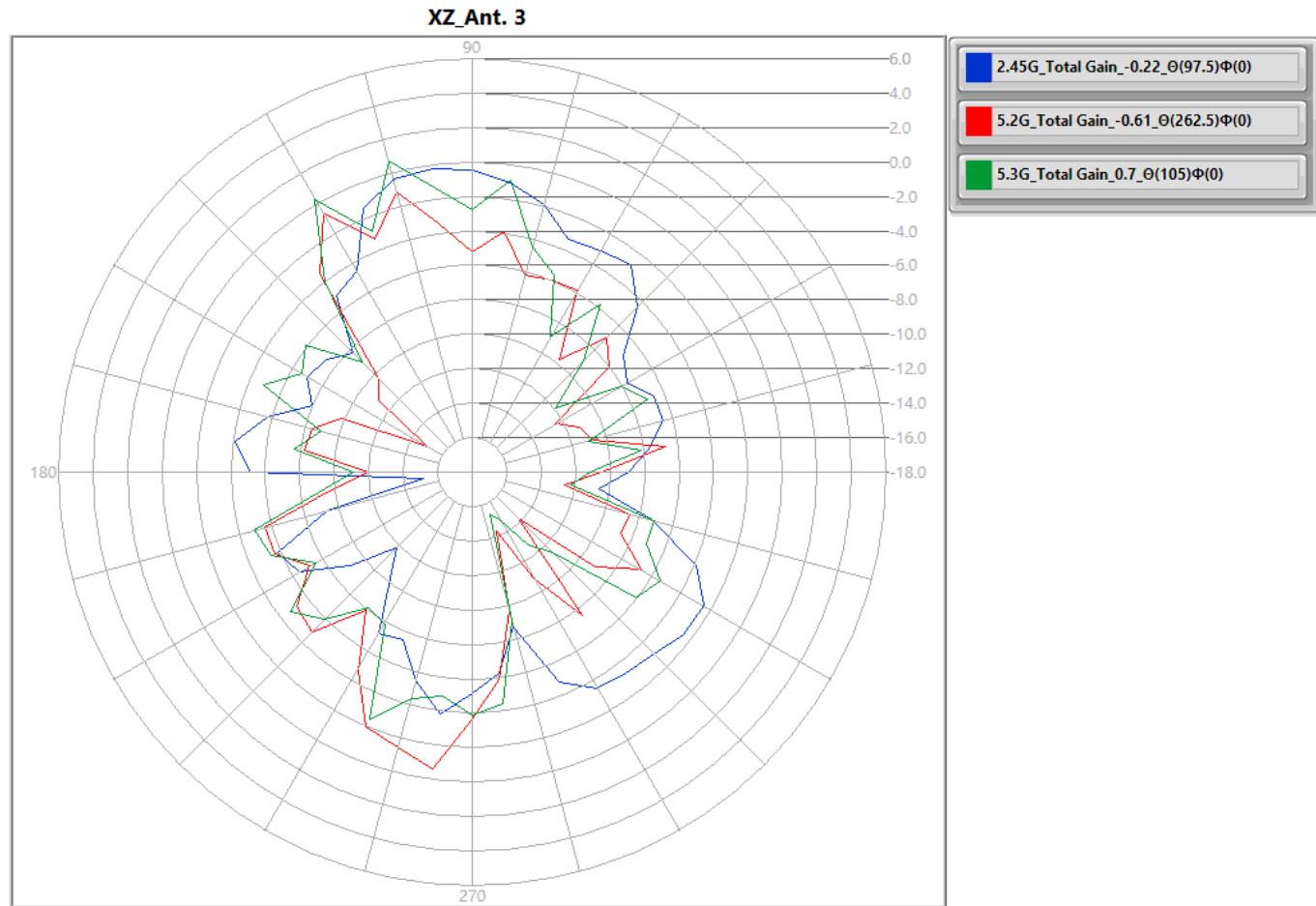
Antenna Pattern

Appendix B.1

Θ(52.5°)	-5.75/-15.20	-11.37/-12.64	-10.51/-15.12	-6.43/-7.08	-8.45/-8.59	-6.96/-5.39	-3.43/-4.41	-6.69/-7.68	-10.97/-11.76	-10.60/-11.44	-10.12/-13.58	-10.69/-12.65	-12.66/-12.14	-14.43/-10.30	-11.03/-11.81	-13.38/-13.29	-12.70/-13.66	-7.77/-6.20	-5.33/-6.85	-6.56/-6.20	-4.95/-4.14	-5.58/-4.41	-10.26/-9.00	-6.73/-6.85
Θ(60°)	-8.90/-9.83	-7.30/-11.58	-3.51/-5.75	-3.11/-6.13	-3.80/-3.30	-6.86/-7.07	-5.39/-6.91	-6.01/-4.23	-3.87/-9.82	-7.44/-12.35	-10.96/-6.23	-14.78/-14.83	-14.85/-14.21	-10.45/-15.09	-14.82/-13.05	-6.32/-9.23	-10.88/-12.21	-10.00/-6.86	-5.33/-8.09	-8.28/-5.20	-9.95/-11.17	-9.73/-8.68	-6.63/-12.25	-11.57/-10.17
Θ(67.5°)	-5.65/-4.70	-11.80/-9.78	-6.61/-7.62	-13.67/-7.32	-3.74/-4.42	-7.64/-6.91	-6.54/-4.73	-4.67/-5.10	-2.41/-2.30	-2.74/-4.66	-7.17/-7.54	-7.65/-11.18	-15.34/-8.93	-12.88/-10.72	-8.23/-8.02	-6.99/-7.24	-10.50/-8.13	-5.86/-9.35	-6.37/-4.77	-8.12/-15.63	-11.56/-11.23	-4.87/-14.37	-6.27/-7.76	
Θ(75°)	-4.49/-5.81	-13.55/-6.42	-7.20/-7.65	-13.45/-10.69	-10.41/-8.63	-1.75/-2.51	-1.87/-1.36	-1.34/-3.37	-4.84/-2.33	-0.76/-6.23	-3.77/-7.98	-2.94/-11.04	9.06/-4.40	-9.14/-8.44	-5.59/-4.68	-1.00/-3.35	-6.07/-3.32	-6.26/-6.90	-3.89/-4.46	-8.26/-4.73	-4.87/-6.30	-9.46/-7.04	-5.71/-4.14	-3.38/-10.57
Θ(82.5°)	-0.94/-5.01	-15.04/-6.13	-14.21/-3.67	-5.98/-5.15	-5.31/-7.22	-3.35/-4.66	-2.20/-1.23	-1.49/-5.01	-4.57/-6.89	-2.90/-5.46	-4.99/-4.70	-1.38/-8.19	-4.43/-1.00	-6.66/-9.72	-2.15/-1.05	-1.360/55	0.43/-1.66	-1.15/-0.86	-0.32/-3.86	-0.27/-7.07	-0.76/-1.46	-7.06/-8.95	-3.790/-42	-5.00/-4.59
Θ(90°)	-2.75/-0.58	-4.51/-2.03	-2.70/-1.32	1.07/0.23	1.75/-1.83	-3.27/-4.83	-8.54/-6.76	-2.72/-4.37	-2.04/-0.89	-0.80/-1.20	-6.16/-4.37	0.35/-3.95	-3.85/-1.20	-0.15/-3.90	-0.15/-2.17	1.52/2.50	1.330/21	3.03/0.1	-1.13/-2.00	2.86/-0.06	0.83/1.95	-3.76/1.09	-0.850/69	-5.70/-0.42
Θ(97.5°)	-1.33/1.47	-5.32/-6.08	-2.16/-4.38	-3.18/-4.94	-3.78/-5.41	-2.48/-3.41	-8.43/-4.70	-7.50/-10.19	-6.02/-5.40	-2.68/-3.31	-7.63/-7.25	2.14/-4.78	-4.88/1.61	-0.06/-10.33	0.74/0.29	2.413/45	-0.250/59	3.48/-0.28	0.62/-0.54	3.380/06	3.440/60	-2.570/98	-0.83/-0.89	-2.07/1.38
Θ(105°)	0.70/1.40	-10.75/-5.54	1.17/-1.61	-0.92/-2.40	-0.64/-5.62	-1.80/-0.08	-0.83/-0.51	-5.89/-7.02	-1.42/-3.86	-4.28/-3.71	-7.07/-7.09	1.24/-3.94	-4.37/-0.01	-0.23/-6.71	-1.50/-4.20	0.10/1.35	-3.18/-2.42	3.34/-1.21	-3.97/-0.19	2.412/11	0.70/-0.57	-1.47/-3.06	-0.18/-3.42	0.480/53
Θ(112.5°)	-2.84/-0.79	-4.20/-2.63	0.98/-1.94	0.73/-3.57	-2.59/-7.44	-5.55/-8.30	-7.11/-4.53	-6.34/-9.14	-5.23/-3.40	-5.40/-2.21	-5.07/-4.89	-2.29/-5.87	-2.50/-2.09	-4.28/-12.09	-4.85/-2.90	-3.60/-2.76	-3.83/-7.77	1.35/-4.10	-5.26/-3.51	-0.260/72	-2.87/-0.47	-2.85/-3.67	0.440/89	-2.56/-1.57
Θ(120°)	0.28/-1.94	-8.64/-3.86	-0.48/-3.31	-4.72/-4.23	-1.23/-5.05	-3.58/-3.03	-3.35/-6.32	-10.49/-5.15	-5.19/-5.37	-3.69/-10.83	-8.74/-3.68	-7.12/-7.79	7.83/-4.75	-9.02/-7.89	-3.74/-4.62	-1.00/-3.55	-5.07/-5.52	-2.76/-7.59	-7.95/-0.97	-7.70/-3.18	-2.92/-4.31	-10.98/-2.23	0.01/-1.91	-3.63/-2.57
Θ(127.5°)	-4.02/-6.00	-5.02/-2.76	-3.78/-7.88	-10.07/-8.33	-6.32/-7.54	-5.26/-3.27	-2.38/-4.24	-10.34/-6.70	-4.43/-6.22	-1.57/-2.80	-6.47/-13.25	-10.24/-4.39	-8.08/-9.11	-12.51/-8.08	-6.13/-2.06	-4.36/-5.22	-2.86/-3.43	-1.29/-6.83	-11.65/-4.44	-2.45/-1.61	-1.58/-9.29	-8.36/-6.90	-4.36/-7.66	-8.87/-11.78
Θ(135°)	-8.94/-14.20	-7.95/-5.75	-12.14/-10.07	-11.14/-12.28	-6.61/-4.44	-3.60/-3.71	-8.48/-14.90	-8.20/-12.67	-8.04/-11.77	-12.63/-3.26	-6.88/-14.10	-16.03/-15.29	-5.92/-3.47	-14.59/-10.68	-7.11/-12.12	-4.94/-6.53	-4.56/-1.17	-0.39/-3.97	-6.67/-2.27	-1.92/-4.45	-6.69/-7.37	-12.35/-8.38	-6.68/-10.49	
Θ(142.5°)	-5.87/-10.85	-10.11/-4.95	-4.52/-0.96	1.02/0.03	-1.81/-4.56	-8.95/-7.81	-9.27/-7.68	-5.01/-6.79	-9.84/-15.42	-9.20/-5.10	-6.17/-7.64	-13.52/-7.71	-4.71/-4.07	-8.61/-7.16	-6.84/-2.60	-3.75/-4.67	-2.88/-0.76	-0.46/-2.33	-5.89/-7.67	-7.84/-5.85	-4.62/-5.47	-5.12/-3.58	-6.07/-4.50	-4.75/-5.21
Θ(150°)	-6.58/-10.60	-8.21/-6.62	-3.59/-4.51	-5.59/-6.44	-10.96/-15.17	-13.74/-10.59	-11.42/-15.42	-9.89/-9.11	-13.08/-11.75	-7.68/-6.66	-6.40/-8.93	-7.52/-6.52	-8.71/-8.26	-5.85/-3.84	-4.16/-5.22	-3.27/-2.90	-4.08/-5.99	-6.93/-5.55	-3.21/-1.80	-1.29/-1.23	-0.97/-0.71	-1.02/-2.87	-3.14/-3.05	
Θ(157.5°)	-4.88/-7.60	-6.68/-5.93	-5.23/-3.98	-5.63/-6.91	-7.82/-7.92	-10.30/-10.69	-9.06/-7.47	-7.41/-9.09	-13.08/-11.24	-12.30/-12.92	-12.05/-11.22	-10.31/-6.89	-5.34/-5.45	-5.62/-5.04	-4.87/-5.76	-4.94/-4.58	-6.06/-7.69	-8.10/-7.26	-5.82/-6.12	-4.40/-2.37	-3.21/-1.81	-3.37/-3.39	-1.64/-2.01	
Θ(165°)	-8.95/-8.36	-7.44/-6.44	-4.84/-3.01	-2.60/-2.89	-4.05/-5.31	-7.21/-10.93	-15.11/-15.70	-15.42/-11.13	-9.37/-9.92	-11.09/-10.80	-7.81/-5.33	-4.12/-3.76	-4.95/-6.29	-5.02/-4.15	-4.90/-5.70	-5.27/-4.70	-4.55/-4.99	-6.89/-9.35	-11.30/-11.49	-9.82/-9.09	-6.34/-5.28	-6.02/-6.58	-5.77/-4.79	-6.07/-8.35
Θ(172.5°)	-7.58/-8.90	-10.29/-12.95	-14.28/-14.59	-13.72/-12.15	-11.78/-11.30	-12.58/-14.04	-14.78/-11.27	-10.17/-9.45	-8.40/-6.85	-5.73/-5.86	-6.08/-6.45	-8.14/-10.08	-0.93/-6.83	-5.42/-5.21	-6.19/-7.27	-7.23/-6.54	-7.31/-7.98	-10.11/-11.87	-12.75/-14.20	-13.95/-13.70	-12.21/-12.00	-12.83/-8.81	-6.72/-6.12	-6.86/-7.20
Θ(180°)	-11.10/-11.43	-10.28/-9.52	-7.58/-7.18	-7.85/-8.77	-10.25/-11.10	-10.90/-9.12	-7.69/-7.10	-6.91/-7.50	-8.23/-8.13	-7.76/-7.31	-7.46/-7.85	-8.15/-8.38	-7.28/-6.21	-5.85/-5.98	-5.88/-5.83	-6.00/-6.21	-6.62/-7.93	-8.40/-8.80	-8.85/-9.25	-8.62/-8.50	-9.39/-10.28	-11.39/-11.13	-11.59/-11.57	-11.44/-11.09
Freq(Hz)	2.45GPol.	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°)	-12.19/-10.90	-9.79/-10.16	-10.28/-9.15	-8.31/-9.12	-10.02/-9.18	-7.62/-7.45	-8.60/-10.44	-11.00/-10.63	-10.40/-10.46	-10.65/-11.67	-11.32/-10.90	-10.55/-10.92	-11.77/-11.48	-10.05/-9.78	-10.01/-9.92	-8.43/-8.13	-9.10/-9.65	-9.16/-8.38	-8.34/-8.93	-9.37/-8.93	-9.04/-9.80	-10.78/-11.39	-11.34/-10.98	-11.77/-12.18
Θ(7.5°)	-11.29/-9.99	-9.23/-9.34	-10.22/-10.05	-8.58/-8.34	-9.62/-9.73	-7.95/-6.84	-7.31/-9.01	-10.72/-12.39	-12.50/-11.61	-11.42/-11.70	-11.83/-11.76	-11.93/-12.57	-13.20/-12.95	-11.26/-10.38	-10.34/-11.22	-9.78/-8.66	-8.63/-9.14	-9.45/-9.18	-9.41/-9.96	-9.95/-9.43	-9.34/-10.04	-10.79/-11.17	-10.97/-10.93	-11.34/-11.57
Θ(15°)	-11.10/-9.49	-8.70/-8.85	-9.74/-9.79	-8.27/-7.32	-7.52/-8.27	-7.73/-6.83	-6.82/-8.07	-10.24/-13.20	-14.24/-12.62	-11.05/-10.66	-10.62/-10.42	-10.68/-11.61	-12.25/-11.97	-11.15/-9.93	-9.12/-10.12	-10.47/-9.38	-8.61/-8.80	-8.78/-7.96	-8.01/-9.18	-10.17/-9.54	-9.42/-10.32	-10.46/-10.81	-10.65/-10.93	-11.02/-11.04
Θ(22.5°)	-10.72/-10.33	-9.72/-9.78	-10.27/-10.64	-9.18/-7.67	-6.88/-8.91	-6.96/-6.53	-6.76/-7.69	-9.33/-10.73	-10.65/-10.05	-8.97/-8.45	-8.34/-8.60	-8.92/-9.53	-8.88/-7.31	-6.27/-6.34	-4.75/-6.72	-6.02/-6.68	-5.47/-5.27	-5.46/-6.92	-8.77/-9.52	-10.01/-11.06	-10.90/-10.15	-10.02/-10.59	-10.77/-10.99	
Θ(30°)	-10.81/-10.95	-10.02/-8.60	-7.87/-8.68	-9.21/-7.69	-5.65/-5.06	-5.72/-6.64	-6.55/-6.46	-7.51/-8.41	-7.57/-6.71	-6.08/-5.55	-5.31/-4.43	-3.70/-3.69	-3.86/-3.07	-2.57/-2.32	-2.54/-3.00	-3.32/-3.31	-2.86/-2.63	-2.45/-2.11	-2.00/-2.83	-4.53/-6.84	-9.47/-10.92	-9.16/-7.46	-6.96/-7.19	-8.03/-9.50
Θ(37.5°)	-6.48/-6.18	-5.98/-5.80	-5.76/-5.53	-5.31/-6.06	-4.30/-3.11	-3.07/-4.80	-5.72/-5.19	-4.44/-6.15	-5.39/-4.58	-4.57/-4.19	-2.97/-1.30	-0.28/-0.04	0.060/36	0.320/-0.07	-0.66/-1.35	-1.71/-2.03	-1.59/-1.08	-0.65/-0.27	0.11/-0.23	-1.36/-3.25	-5.80/-8.11	-7.12/-5.25	-4.32/-4.64	-5.36/-6.29
Θ(45°)	-3.09/-3.21	-4.02/-4.88	-5.13/-3.90	-2.58/-1.92	-2.09/-1.47	-0.65/-1.62	-4.26/-4.82	-4.50/-4.76	-3.92/-3.46	-2.41/-0.74	-0.10/-0.24	-0.51/-0.62	-1.02/-1.54	-1.78/-2.24	-2.19/-2.51	-1.37/-1.56	-1.10/-0.61	0.19/-0.88	-2.54/-4.76	-5.02/-4.68	-3.20/-3.03	-3.63/-3.59		
Θ(52.5°)	-1.55/-2.28	-3.59/-4.60	-5.02/-3.55	-1.68/-0.38	-0.49/-0.61	0.340/10	-2.63/-4.50	-4.08/-4.10	-3.53/-3.54	-4.43/-4.49	-3.19/-2.27	-2.81/-3.90	-4.79/-4.95	-4.72/-3.92	-3.32/-3.70	-3.84/-3.05	-1.70/-0.96	-1.06/-1.67	-0.97/-0.17	-0.38/-0.94	-1.74/-3.13	-4.02/-3.68	-2.91/-2.70	-2.37/-1.67
Θ(60°)	-0.97/-1.72	-3.05/-3.87	-4.04/-2.90	-1.21/0.35	0.48/-0.06	0.250/21	-2.00/-3.14	-2.19/-2.62	-2.63/-2.37	-3.25/-3.96	-4.07/-0.53	-6.40/-5.96	-5.08/-4.78	-4.94/-5.18	-5.27/-5.93	-7.46/-8.82	-5.39/-2.04	-0.63/-1.07	-1.51/-1.45	-1.97/-2.27	-2.02/-2.46	-2.48/-2.58	-2.73/-2.25	-1.35/-0.80
Θ(67.5°)	-1.26/-1.67	-2.63/-3.20	-2.57/-1.28	-0.130/8.00	0.910/48	0.29/-0.21	-1.74/-1.41	-0.59/-1.30	-1.22/-0.94	-2.13/-3.06	-3.67/-6.32	-8.18/-6.36	-4.68/-3.32	-2.49/-2.44	-2.99/-4.32	-5.67/-7.34	-9.31/-7.25	-3.54/-2.04	-1.92/-2.13	-3.00/-3.29	-2.29/-2.52	-2.09/-1.74	-2.11/-1.16	-0.52/-0.84
Θ(75°)	-1.65/-2.03	-2.44/-2.42	-1.44/-0.41	0.190/84	2.26/0.55	-0.26/-0.12	-1.27/0.44	0.34/-0.25	-0.100/04	-1.16/-2.47	-3.03/-6.23	-9.47/-7.17	-5.47/-4.01	-2.48/-1.64	-2.01/-3.42	-6.68/-5.48	-5.52/-5.07	-4.46/-3.20	-1.85/-1.92	-3.60/-4.86	-2.70/-2.07	-2.48/-2.02	-1.88/-0.29	-0.30/-0.51
Θ(82.5°)	-1.69/-2.76	-3.15/-2.99	-1.70/-0.50	0.200/76	0.540/06	0.430/49	-0.81/-0.24	0.70/-0.05	0.190/48	-1.10/-3.07	-2.51/-4.47	-5.37/-3.24	-4.06/-5.58	-4.19/-3.04	-3.11/-3.06	-3.71/-5.32	-5.40/-3.83	-3.28/-3.70	-2.91/-2.22	-3.09/-5.06	-3.51/-1.91	-2.64/-2.37	-2.14/-0.51	0.10/-0.22
Θ(90°)	-2.88/-4.31	-4.26/-4.33	-2.72/-0.77	0.02/-0.39	-1.57/-0.67	0.870/69	-1.18/-0.74	0.06/-1.21	-0.07/-0.25	-2.08/-3.68	-0.94/-1.93	-2.70/-0.66	-1.86/-3.44	-3.49/-4.00	-4.37/-2.51	-2.23/-3.66	-3.88/-2.30	-1.85/-3.06	-3.23/-3.43	-3.35/-3.77	-3.57/-1.66	-2.87/-3.47	-3.09/-1.57	-2.08/-1.79
Θ(97.5°)	-5.41/-5.86	-3.94/-3.27	-2.61/-1.21	-1.39/-3.22	-4.13/-1.20	0.13/-0.60	-2.14/-1.89	-2.16/-3.45	-1.93/-2.16	-2.22/-3.62	-1.35/-2.31	-2.63/-0.92	-2.69/-3.79	-5.30/-8.45	-8.76/-4.38	-3.18/-4.20	-4.19/-2.12	-1.92/-4.56	-5.49/-5.17	-4.31/-3.88	-4.28/-1.80	-2.14/-3.69	-4.12/-2.40	-4.45/-4.84
Θ(105°)	-6.85/-6.62	-2.21/-1.09	-1.48/-1.60	-2.73/-4.45	-4.42/-2.84	-2.08/-2.17	-4.40/-5.67	-5.50/-5.69	-5.16/-3.71	-2.90/-5.40	-2.63/-3.70	-4.90/-3.43	-5.08/-4.11	-6.55/-11.98	-13.21/-9.44									

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





Mode 2

Total Gain Data

[illegible]



Antenna Pattern

Appendix B.2

Θ(15°)	-0.25/-0.61	-0.60/-0.78	-0.33/-0.30	-1.31/-1.62	-2.11/-1.58	-1.05/-1.61	-0.86/-1.84	-1.29/-1.79	-1.11/-0.61	-0.13/-1.35	-0.10/-0.65	0.48/-1.52	-0.04/-0.36	-1.96/-2.15	-1.94/-2.47	-2.64/-1.71	-0.37/-0.95	-0.59/-1.53	-1.76/-1.58	-1.64/-1.22	-1.08/-0.72	-0.83/-0.20	-0.28/-0.14	0.30/-0.22
Θ(22.5°)	-0.23/-0.72	-1.10/-1.62	-0.69/-0.46	-1.10/-2.59	-3.62/-2.81	-1.94/-3.75	-4.20/-3.17	-1.88/-1.41	-0.22/-0.40	-0.46/-0.73	-0.25/-0.01	-1.24/-0.14	-1.94/-0.11	-1.01/-1.34	-1.97/-4.92	-6.75/-6.67	-4.36/-2.72	-7.21/-3.27	-2.95/-3.24	-3.92/-4.64	-5.82/-5.26	-4.06/-2.33	-0.42/-0.35	-1.11/-0.76
Θ(30°)	-0.87/-0.65	-1.33/-2.04	-2.08/-2.16	-0.98/-3.49	-7.61/-5.63	-5.65/-5.96	-4.27/-3.34	-2.74/-3.92	-3.61/-2.62	-1.43/-1.17	0.40/-1.72	1.23/-0.65	2.05/-0.82	-1.86/-3.45	-5.14/-6.25	-7.01/-6.67	-9.65/-10.62	-9.83/-12.16	-7.84/-10.23	-9.13/-11.15	-10.33/-10.22	-5.94/-2.94	-2.43/-0.17	0.40/-0.62
Θ(37.5°)	-1.79/-1.24	-2.64/-3.25	-3.92/-4.34	-4.72/-5.29	-7.24/-7.97	-8.66/-7.54	-7.40/-7.31	-7.02/-4.97	-2.69/-1.75	-0.98/-0.29	-1.41/-0.41	1.88/-0.55	-0.84/-0.15	-2.36/-2.03	-4.02/-3.87	-4.38/-6.28	-10.84/-11.28	-9.55/-8.97	-8.45/-9.98	-13.65/-14.08	-12.55/-8.97	-6.16/-6.90	-3.31/-0.91	0.07/-0.07
Θ(45°)	-0.03/-0.05	-2.82/-5.40	-9.29/-7.78	-7.29/-7.47	-5.74/-7.05	-8.57/-14.14	-13.45/-14.42	-9.69/-5.08	-5.14/-4.87	-2.34/-0.23	0.04/-0.83	0.40/-2.48	-1.57/-1.73	-9.73/-7.53	-6.69/-5.88	-13.16/-7.09	-8.82/-13.93	-11.94/-11.01	-10.63/-7.64	-8.12/-8.37	-11.80/-12.76	-7.36/-7.73	-4.00/-0.50	0.38/-0.91
Θ(52.5°)	0.25/-0.77	-1.78/-5.35	-11.05/-8.71	-8.41/-9.56	-6.51/-5.53	-7.20/-15.56	-13.74/-15.52	-9.78/-5.07	-10.22/-4.38	-1.80/-0.83	0.98/-0.07	0.88/-1.44	0.60/-0.66	-8.43/-12.50	-7.57/-15.14	-10.01/-11.17	-9.07/-7.51	-8.91/-8.73	-8.07/-9.04	-12.28/-14.85	-12.56/-6.34	-5.76/-3.87	0.26/-1.02	
Θ(60°)	-1.60/-1.03	-2.74/-5.52	-9.68/-11.17	-8.29/-14.27	-7.18/-4.41	-8.25/-11.18	-13.11/-10.17	-7.43/-12.41	-13.37/-8.34	-5.38/-2.09	0.26/-1.98	-0.19/-3.64	3.22/-0.05	-2.97/-11.48	-9.81/-15.21	-9.55/-15.37	-8.19/-4.49	-4.83/-6.58	-7.86/-12.33	-5.68/-7.03	-10.09/-13.62	-9.83/-11.24	-8.27/-3.81	-1.46/-0.75
Θ(67.5°)	-0.21/-1.80	-3.59/-7.84	-7.39/-7.41	-6.69/-14.36	-6.55/-5.51	-13.03/-7.18	-15.39/-8.44	-5.81/-13.96	-14.41/-12.63	-10.67/-3.72	-1.15/-1.94	-0.39/-0.99	1.72/-1.40	-5.48/-4.33	-16.22/-11.91	-8.62/-12.80	-6.22/-4.16	-4.15/-6.68	-6.00/-7.68	-13.65/-6.98	-8.32/-10.99	-11.29/-10.93	-11.25/-5.24	-0.11/-0.34
Θ(75°)	-0.82/-1.12	-4.93/-9.73	-7.66/-5.67	-6.32/-10.11	-7.09/-7.78	-15.60/-7.18	-11.03/-4.57	-5.35/-7.80	-11.10/-12.03	-11.45/-6.16	-0.68/-0.02	3.00/-3.19	2.38/-1.99	-11.06/-6.44	-8.82/-12.97	-14.74/-9.78	-3.70/-2.56	-5.35/-4.05	-3.40/-2.48	-9.04/-4.71	-7.94/-4.23	-10.30/-12.68	-7.25/-2.41	-0.25/-0.96
Θ(82.5°)	-1.12/-1.18	-7.71/-10.54	-9.43/-6.68	-4.68/-8.00	-7.83/-10.76	-10.79/-8.53	-11.12/-6.14	-4.83/-8.27	-7.91/-8.43	-10.47/-10.66	-1.83/-1.50	1.01/-2.94	3.02/-0.30	-5.01/-9.68	-7.61/-10.30	-9.80/-12.21	-5.09/-3.04	-1.59/-4.66	-9.56/-11.22	-4.29/-7.35	-4.30/-5.18	-10.44/-10.82	-3.28/-2.20	-1.29/-0.03
Θ(90°)	-2.27/-2.47	-4.68/-7.50	-12.15/-8.13	-3.16/-9.57	-7.86/-9.28	-12.48/-9.07	-15.84/-6.92	-5.16/-7.94	-8.63/-8.42	-8.79/-9.65	-3.14/-1.22	0.21/-1.50	0.92/-2.48	-4.08/-4.63	-12.27/-4.68	-8.97/-8.43	-2.30/-2.81	-3.77/-8.89	-8.82/-6.61	-6.64/-7.76	-5.94/-15.59	-10.76/-9.39	-7.36/-5.05	-4.14/-1.62
Θ(97.5°)	-4.00/-2.98	-2.30/-7.02	-14.62/-5.41	-4.45/-8.17	-7.65/-14.13	-6.80/-8.93	-15.28/-4.35	-6.49/-5.19	-4.85/-6.57	-2.19/-2.22	2.88/-2.86	0.40/-2.28	-7.46/-6.26	-6.90/-4.12	-11.35/-6.07	-2.32/-1.92	-6.41/-9.74	-9.27/-9.98	-10.87/-13.37	-13.61/-12.53	-10.49/-10.12	-10.48/-14.68	-6.43/-2.75	
Θ(105°)	-1.75/-1.53	-1.15/-5.74	-10.65/-7.76	-4.54/-5.38	-10.80/-11.28	-7.08/-5.43	-12.03/-4.14	-5.85/-5.72	-5.10/-6.08	-5.19/-5.76	0.79/-0.97	-0.06/-3.42	1.87/-1.50	-3.47/-8.75	-5.12/-8.60	-4.06/-9.49	-3.45/-1.99	-5.10/-9.76	-6.85/-5.76	-10.89/-12.77	-14.92/-11.38	-13.32/-6.80	-9.11/-5.61	-3.59/-1.07
Θ(112.5°)	0.54/-2.06	-1.80/-5.74	-10.33/-10.84	-6.64/-4.25	-8.99/-7.94	-8.32/-5.08	-10.04/-5.51	-6.47/-8.58	-6.80/-5.70	-2.82/-3.24	-1.19/-4.38	-1.19/-4.18	-1.94/-1.67	-4.56/-3.45	-13.34/-6.08	-7.71/-9.74	-7.57/-2.85	-7.27/-8.34	-4.92/-6.41	-11.60/-12.82	-15.63/-10.29	-14.25/-6.15	-4.90/-2.38	1.12/-0.51
Θ(120°)	0.72/-3.31	-1.86/-4.01	-8.42/-10.05	-13.37/-3.50	-5.49/-7.66	-8.23/-8.51	-6.75/-5.41	-6.98/-8.57	-5.61/-4.78	-3.45/-0.61	-2.23/-1.15	3.39/-0.70	-4.96/-5.37	-3.44/-10.71	-13.44/-14.87	-10.29/-8.71	-14.02/-12.94	-4.51/-4.96	-7.76/-15.04	-14.30/-9.85	-13.45/-10.77	-5.16/-2.76	1.72/-0.02	
Θ(127.5°)	-0.89/-5.03	-1.98/-2.70	-4.92/-14.36	-11.65/-3.35	-6.63/-5.19	-8.69/-13.16	-6.95/-7.67	-8.79/-8.29	-9.32/-5.17	-2.45/-1.23	1.24/-3.04	1.62/-2.49	0.16/-5.15	0.32/-2.21	-8.79/-12.62	-6.95/-9.49	-10.48/-11.28	-14.54/-7.92	-4.54/-6.91	-8.52/-10.32	-10.57/-12.47	-8.65/-1.24	-1.24/-0.72	2.75/-1.80
Θ(135°)	-0.41/-5.62	-1.06/-1.70	-3.84/-13.38	-6.31/-3.24	-5.36/-6.02	-6.54/-10.96	-6.08/-2.74	-10.13/-5.86	-8.09/-5.04	-2.83/-1.91	-1.28/-0.54	0.74/-0.84	2.18/-0.21	-4.28/-1.87	-6.41/-8.17	-7.83/-15.44	-13.87/-14.10	-12.96/-13.47	-14.03/-10.96	-8.09/-10.16	-12.94/-11.79	-8.88/-4.57	-1.78/-2.27	3.82/-1.83
Θ(142.5°)	-5.63/-3.37	0.04/-0.57	-3.35/-5.33	-3.59/-4.13	-6.64/-9.33	-9.33/-8.97	-6.05/-5.68	-5.46/-7.04	-7.19/-8.26	-4.01/-1.33	-0.78/-0.16	2.21/-2.66	-1.39/-3.52	1.81/-7.52	-3.04/-3.83	-1.33/-13.67	-9.94/-10.75	-14.19/-13.18	-15.34/-14.61	-13.59/-13.78	-9.07/-6.48	-2.91/-2.37	0.09/-0.90	1.25/-1.40
Θ(150°)	-3.56/-3.17	-1.11/-0.55	-0.44/-1.53	-4.34/-7.61	-8.30/-10.28	-7.72/-6.85	-6.84/-3.94	-4.22/-5.65	-5.27/-3.80	-2.91/-2.24	0.19/-0.09	0.45/-1.63	-1.47/-0.17	-4.13/-3.36	-9.05/-12.32	-9.55/-8.23	-8.34/-10.10	-12.39/-11.34	-10.75/-7.30	-6.20/-5.92	-4.96/-3.02	-0.38/-1.05	0.02/-2.85	
Θ(157.5°)	-3.09/-2.23	-0.16/-0.05	-1.06/-2.36	-4.99/-6.80	-6.00/-6.26	-5.49/-6.09	-4.94/-2.90	-1.82/-1.39	-1.36/-1.11	0.16/-0.38	-0.98/-2.53	-2.19/-0.65	-1.52/-0.92	2.04/-1.80	-1.41/-8.05	-10.66/-8.58	-9.29/-8.26	-9.88/-14.74	-7.91/-4.59	-4.33/-5.56	-5.30/-3.37	-1.68/-0.02	0.04/-1.06	-1.95/-2.69
Θ(165°)	-2.28/-1.28	-1.12/-1.29	-2.63/-3.13	-3.06/-3.41	-4.60/-4.18	-4.11/-4.90	-5.38/-5.14	-3.16/-2.47	-2.39/-2.54	-1.75/-0.98	-3.63/-3.29	0.54/-2.92	0.06/-0.69	1.76/-0.26	-3.92/-5.51	-3.80/-3.38	-4.68/-3.17	-4.96/-5.48	-2.78/-1.62	-1.34/-1.48	-1.83/-1.57	-1.92/-2.27	-2.53/-2.97	
Θ(172.5°)	-0.42/-1.23	-0.97/-3.81	-3.70/-3.39	-2.38/-2.08	-2.02/-2.15	-2.20/-2.67	-3.47/-3.80	-4.09/-3.16	-3.19/-3.07	-2.87/-1.42	0.52/-2.80	-1.57/-0.27	-0.84/-0.15	0.29/-4.25	-2.85/-1.96	-2.50/-3.41	-1.85/-0.64	-1.92/-1.48	-2.87/-3.02	-3.02/-3.25	-2.59/-2.01	-1.69/-1.76	-1.53/-1.16	-0.74/-0.37
Θ(180°)	-2.18/-1.80	-2.54/-2.34	-1.75/-1.64	-1.16/-0.91	-0.84/-0.63	-0.30/-0.96	-0.54/-1.09	-0.51/-0.52	-0.69/-0.54	-0.36/-1.09	-1.61/-0.22	0.22/-0.62	0.18/-0.97	-2.15/-7.68	-2.82/-3.87	-6.65/-2.55	-1.03/-1.46	-2.34/-0.17	-1.69/-1.57	-1.38/-2.13	-1.66/-1.96	-1.43/-1.68	-1.57/-1.41	-1.61/-1.53
Freq[Hz]	5.3GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-1.13/-1.26	-1.11/-0.99	-1.33/-1.46	-1.33/-1.34	-1.07/-1.04	-0.28/-0.83	-0.42/-0.02	-0.19/-0.69	-0.18/-0.31	0.56/-0.05	0.25/-1.06	-0.82/-0.41	0.94/-0.58	0.05/-0.12	-0.25/-0.75	-0.40/-0.37	-1.17/-0.70	-0.83/-0.59	-1.45/-0.64	-0.41/-0.58	-0.56/-0.15	-0.43/-0.11	-0.45/-0.69	-0.55/-1.11
Θ(7.5°)	-0.19/-0.68	-0.70/-0.81	-1.63/-1.79	-2.38/-3.22	-2.45/-2.55	-1.68/-1.58	-1.95/-1.50	-1.20/-1.28	-0.71/-1.41	-0.76/-0.74	0.10/-1.48	-1.68/-1.33	-1.84/-1.88	-1.91/-1.29	-0.73/-0.39	-0.47/-0.82	0.41/-0.34	0.18/-0.37	0.16/-0.37	-0.03/-0.59	-0.14/-0.58	0.44/-0.16	-0.25/-0.41	
Θ(15°)	-0.98/-0.91	-1.23/-0.66	-1.36/-2.08	-1.94/-2.30	-2.08/-1.34	-0.88/-2.04	-0.99/-0.68	-0.92/-0.34	-0.08/-0.39	-0.69/-0.78	-1.22/-1.02	-0.01/-0.91	-2.29/-1.72	-2.58/-3.57	-4.09/-3.58	-4.45/-2.84	-3.76/-2.47	-2.86/-3.20	-2.94/-2.25	-1.60/-1.78	-0.56/-0.81	-0.62/-0.31	-0.12/-0.56	
Θ(22.5°)	-0.55/-1.31	-1.67/-1.03	-0.67/-0.87	-2.04/-3.36	-3.08/-1.91	-2.54/-2.21	-1.82/-0.56	0.19/-0.90	0.04/-0.04	-0.82/-0.68	0.02/-1.19	-1.00/-2.11	-2.64/-2.23	-2.43/-2.82	-3.65/-4.37	-6.14/-8.40	-6.03/-10.16	-5.98/-6.64	-6.04/-6.44	-4.84/-5.93	-5.83/-5.72	-4.93/-1.89	-1.66/-1.25	-1.58/-0.54
Θ(30°)	-0.82/-0.59	-1.22/-1.56	-1.86/-1.11	-1.32/-4.58	-6.00/-4.16	-4.35/-5.29	-2.90/-2.24	-2.87/-3.34	-3.14/-1.91	-0.15/-0.31	0.45/-1.08	2.34/-0.36	1.53/-1.28	-1.79/-3.66	-7.07/-10.10	-10.86/-10.45	-15.39/-16.15	-10.38/-10.79	-10.43/-9.41	-10.08/-8.86	-13.06/-10.73	-9.60/-5.21	-1.98/-0.58	-0.19/-1.72
Θ(37.5°)	-1.88/-1.65	-2.72/-2.43	-2.84/-3.29	-3.83/-3.91	-6.87/-7.26	-5.70/-6.64	-6.77/-7.26	-5.70/-6.64	-3.19/-3.40	0.10/-0.11	0.21/-1.08	1.47/-0.09	-2.42/-1.73	-3.37/-3.73	-4.73/-7.23	-6.50/-6.09	-6.50/-9.12	-10.34/-7.16	-9.19/-11.25	-16.17/-15.31	-14.94/-12.26	-8.70/-6.07	-4.26/-2.17	-0.64/-1.41
Θ(45°)	-0.56/-0.68	-3.79/-4.47	-8.04/-6.80	-6.20/-5.77	-5.51/-8.30	-8.92/-14.88	-9.98/-12.04	-9.16/-4.51	-3.25/-2.61	-1.81/-0.09	1.31/-2.09	0.97/-0.93	-0.82/-3.36	-7.03/-10.67	-10.42/-9.08	-14.04/-11.65	-15.28/-15.91	-12.86/-15.26	-10.49/-9.58	-7.58/-7.51	-12.59/-12.86	-9.99/-8.75	-4.99/-1.62	-0.82/-0.24
Θ(52.5°)	0.46/-0.84	-2.38/-4.42	-11.34/-8.18	-10.58/-7.18	-5.88/-5.37	-8.92/-13.60	-11.78/-10.46	-7.54/-11.76	-10.88/-4.22	-1.16/-0.60	1.55/-1.44	1.43/-2.55	0.68/-2.55	-7.58/-3.97	-11.28/-11.12	-15.03/-15.90	-9.53/-8.32	-9.47/-8.91	-9.28/-15.04	-9.68/-9.38	-9.49/-13.89	-13.85/-5.79	-7.69/-1.72	0.25/-0.16
Θ(60°)	-0.95/-0.93	-2.94/-6.64	-8.08/-11.52	-10.38/-9.11	-5.08/-4.91	-1.86/-9.63	-10.44/-5.65	-5.49/-13.78	-10.40/-8.46	-5.22/-2.94	0.98/-0.25	-0.08/-2.63	1.63/-0.80	-8.62/-15.65	-7.38/-15.07	-13.21/-11.39	-14.23/-6.49	-7.39/-4.74	-8.24/-13.12	-6.60/-5.22	-10.80/-12.01	-8.97/-8.83	-7.56/-4.63	-2.49/-0.57
Θ(67.5°)	-0.59/-0.91	-5.17/-6.51	-5.68/-7.33	-7.85/-9.14	-4.39/-7.51	-11.13/-9.22	-13.42/-5.04	-7.07/-9.66	-7.63/-11.58	-9.38/-3.69	0.07/-2.43	-0.46/-2.30	1.64/-0.83	-5.36/-7.68	-14.76/-11.50	-7.84								

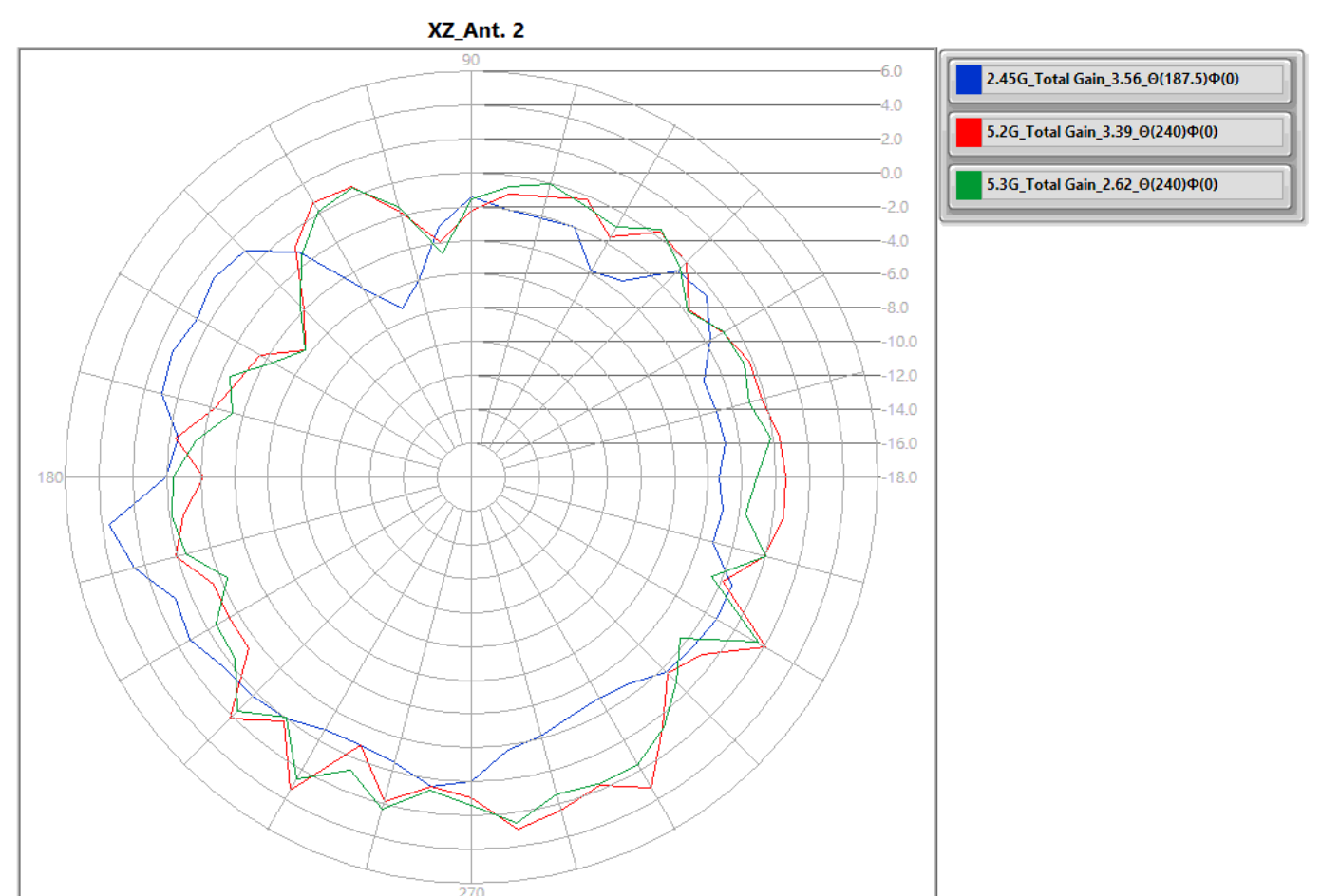
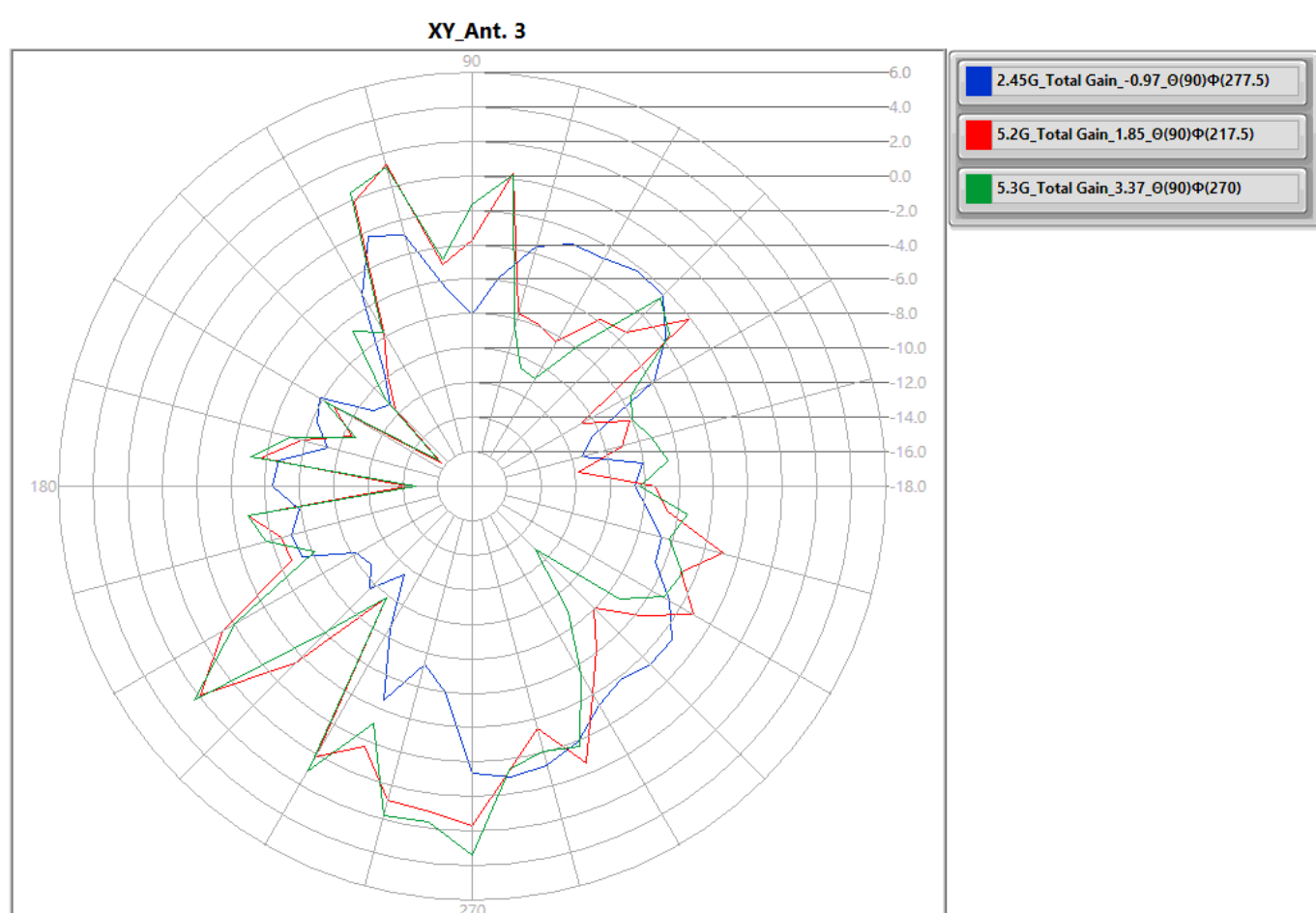
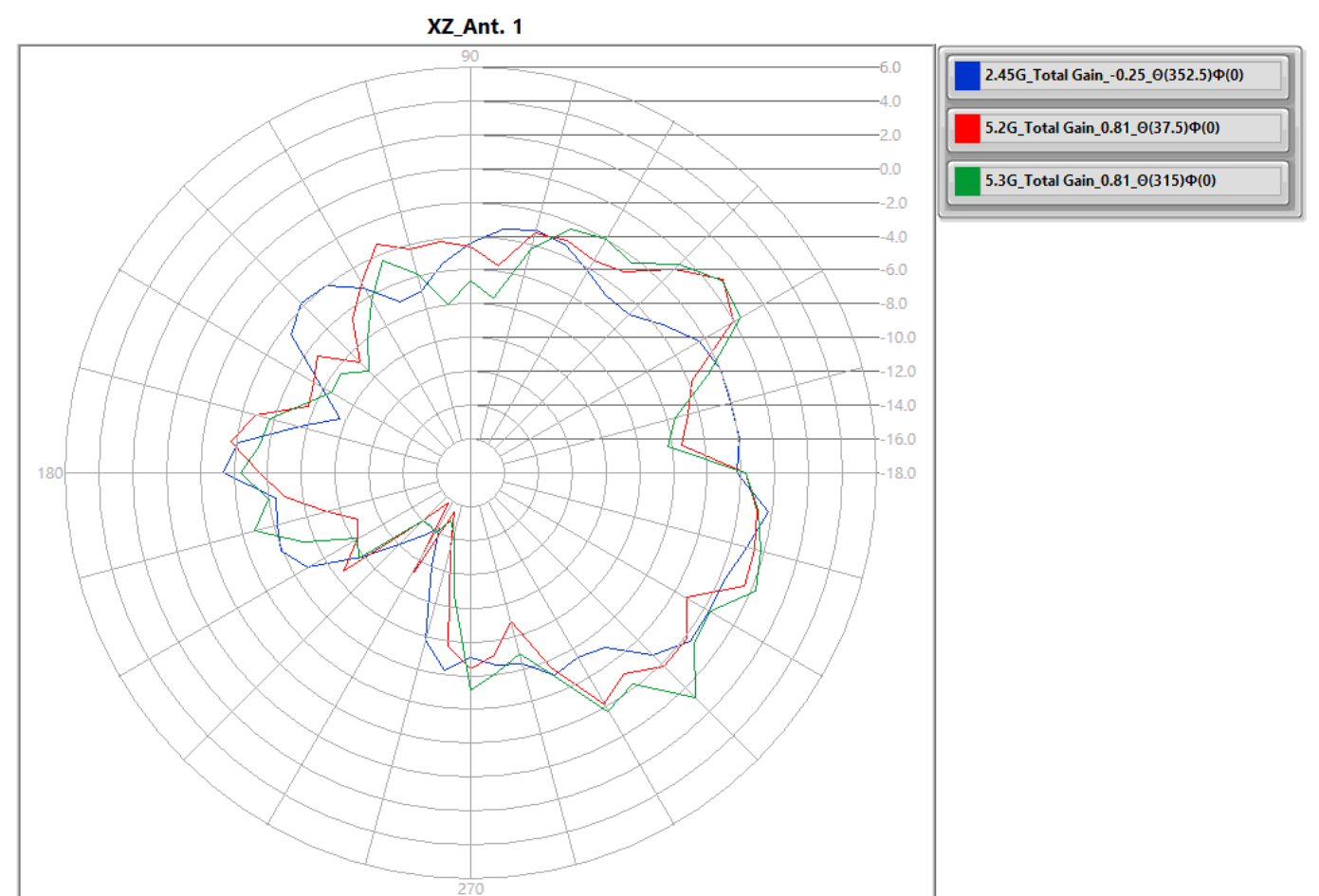
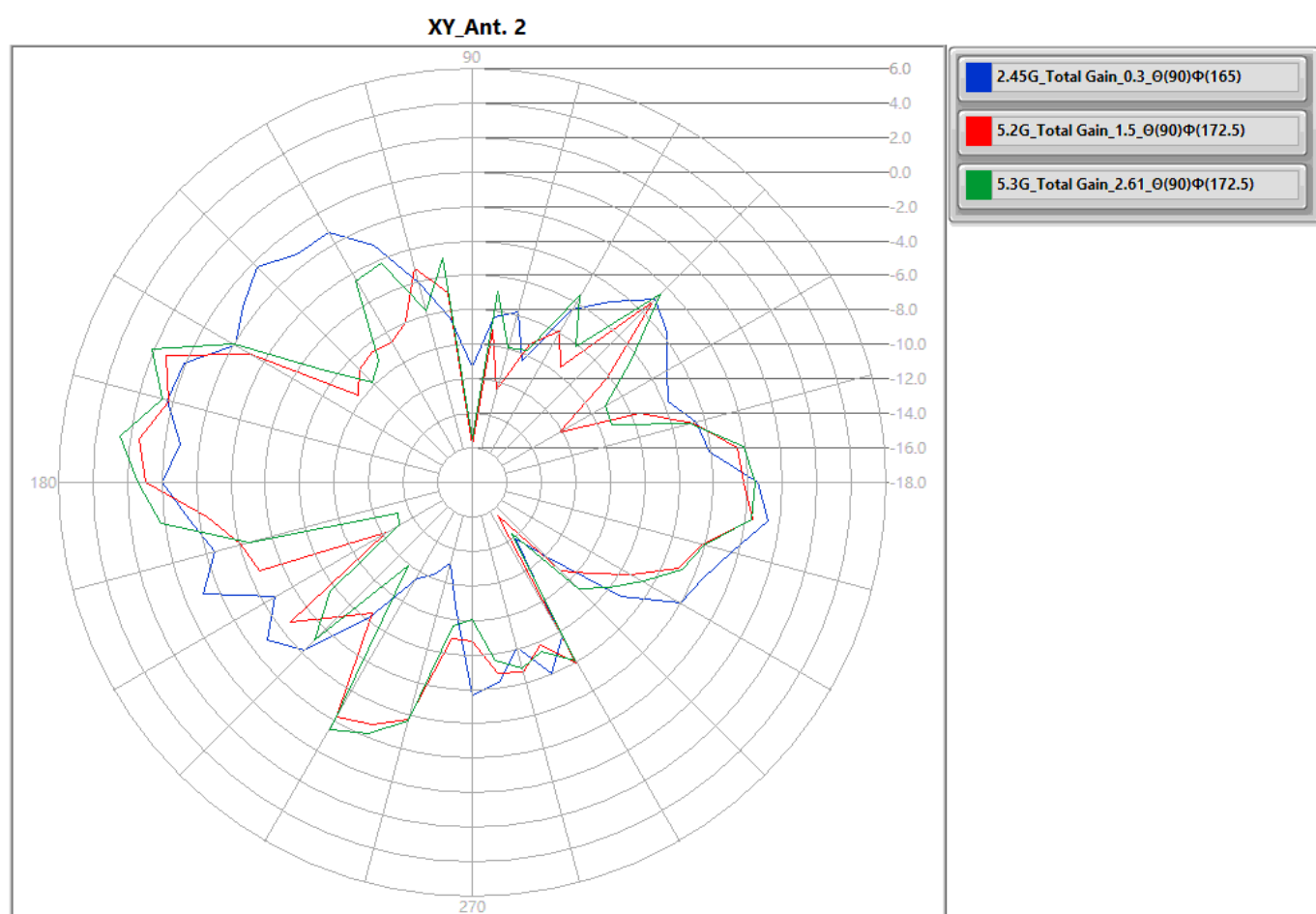
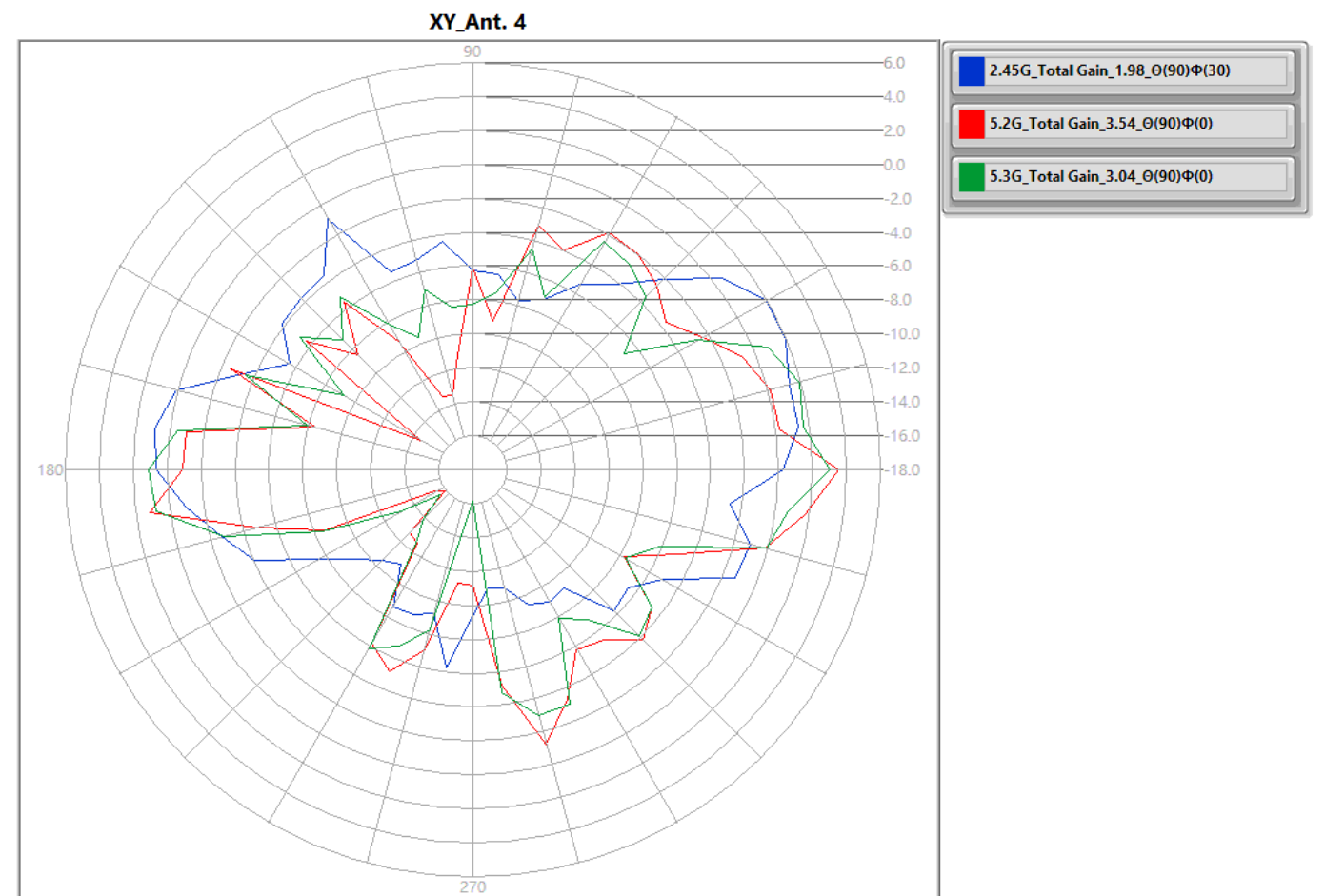
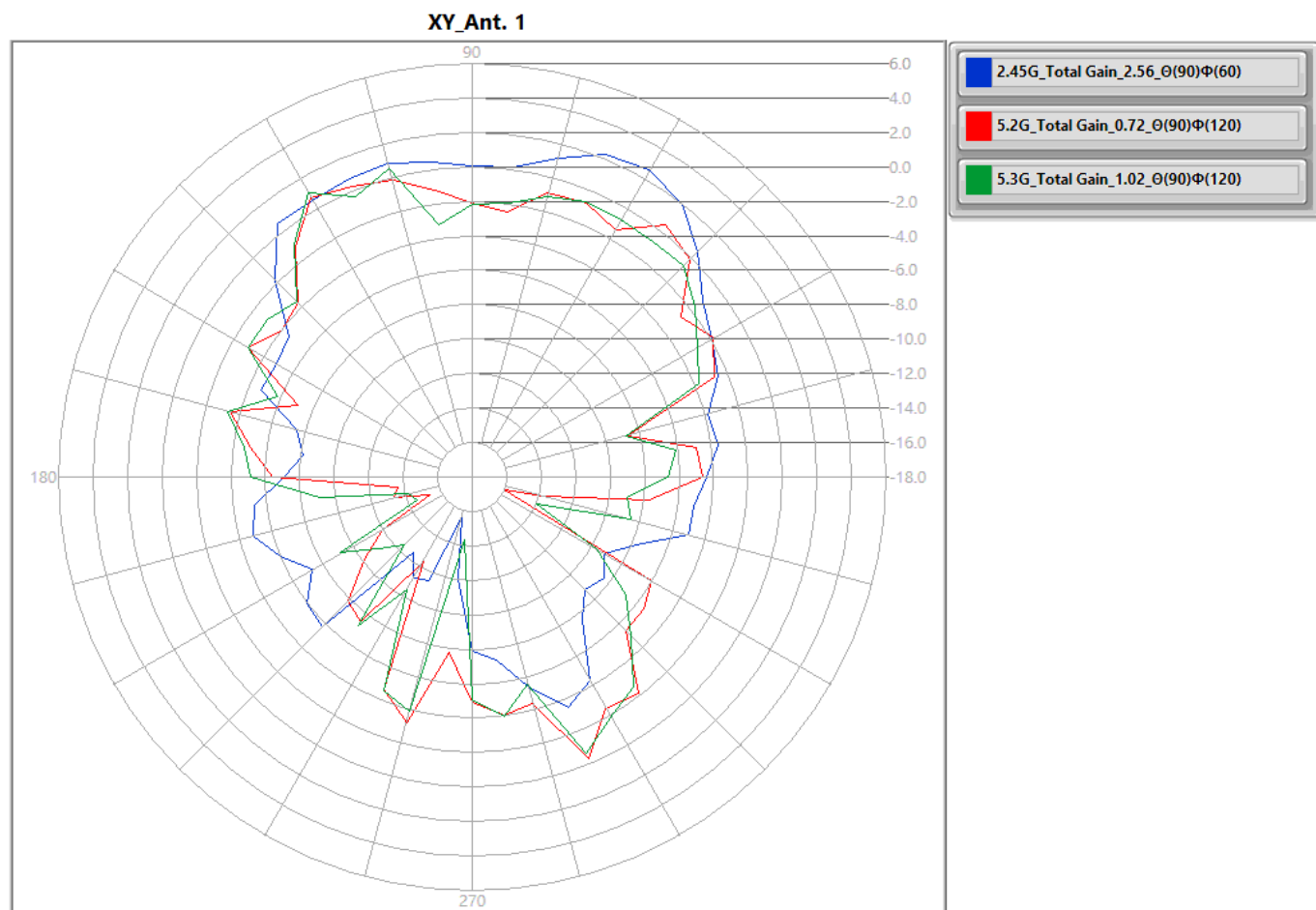


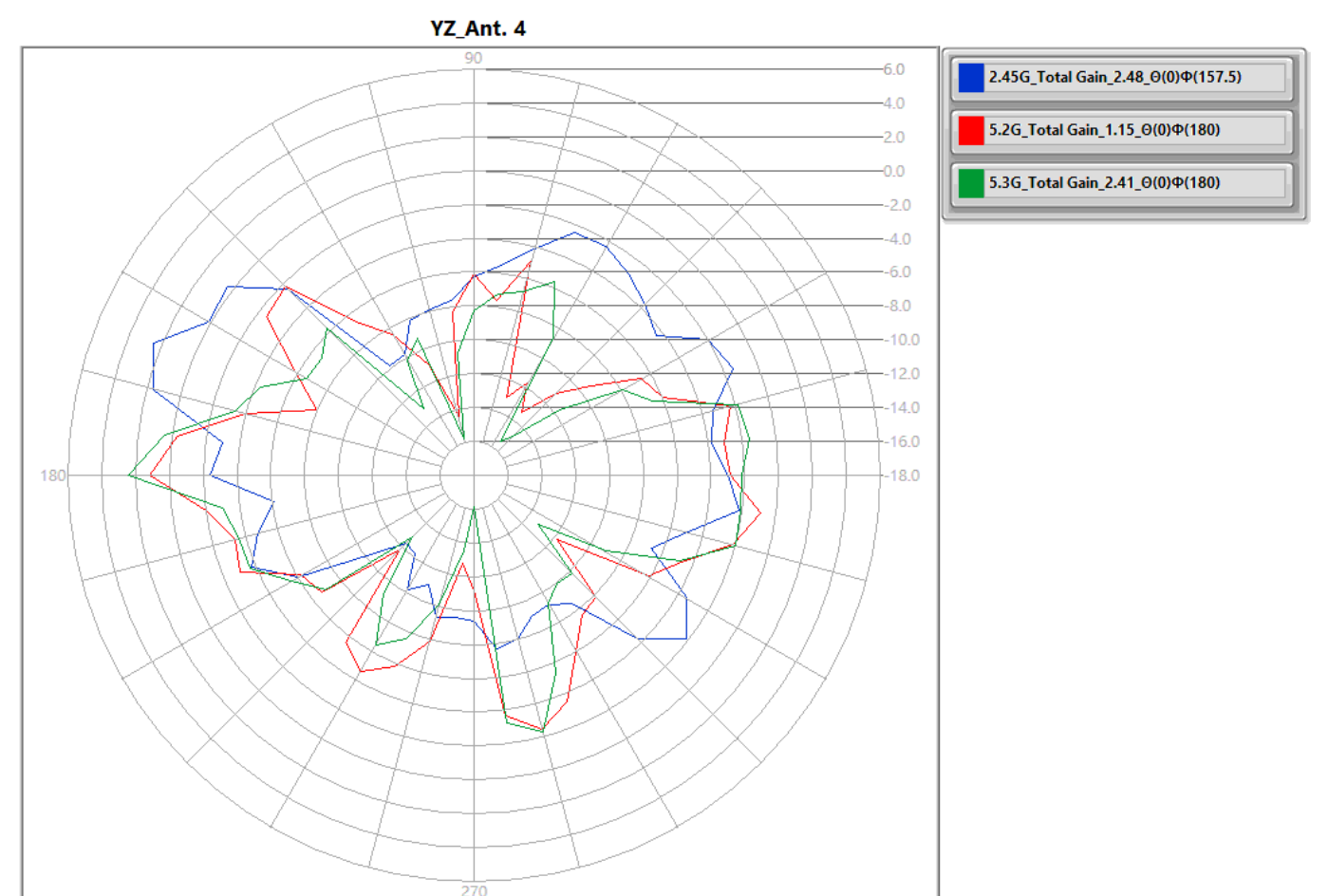
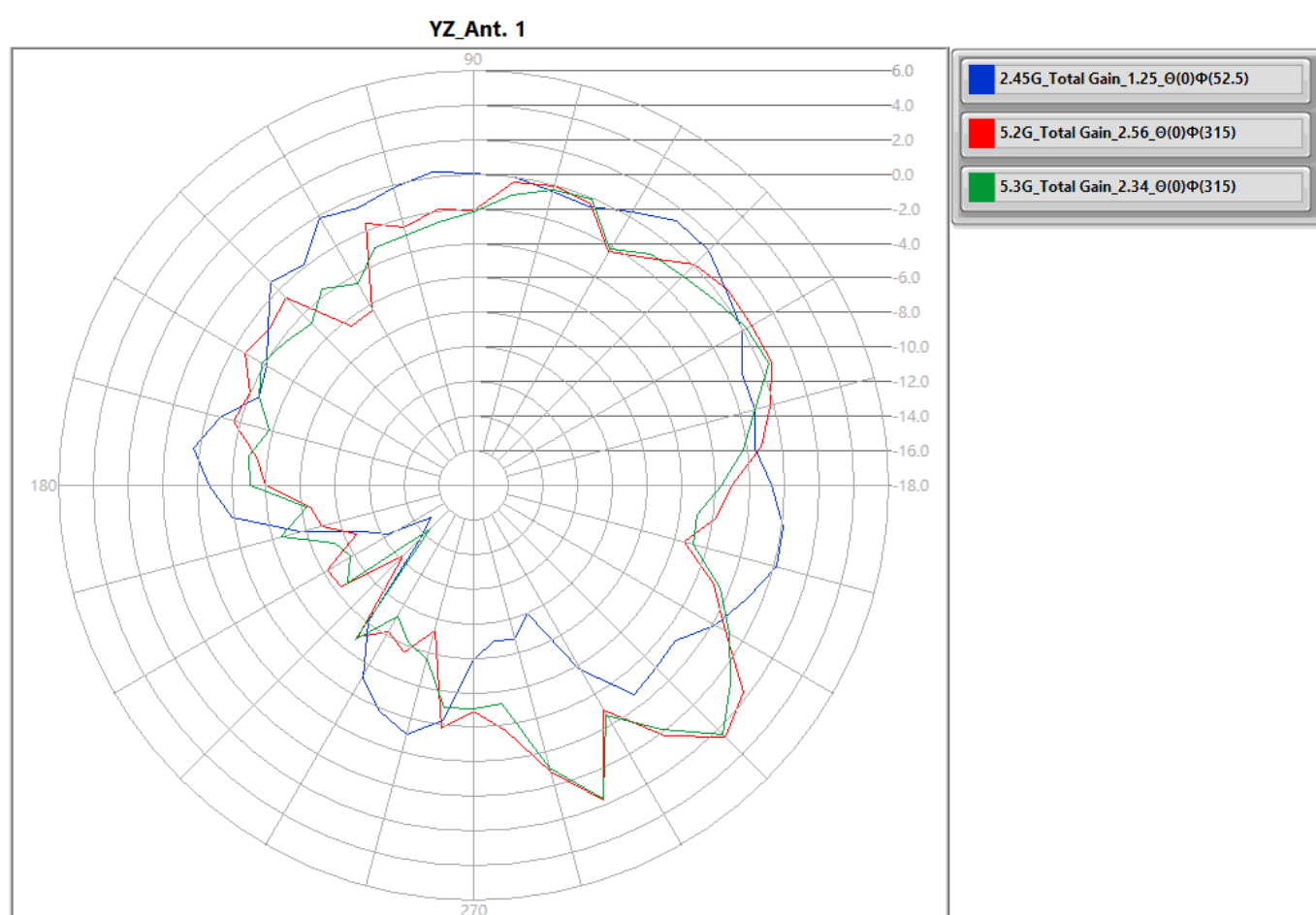
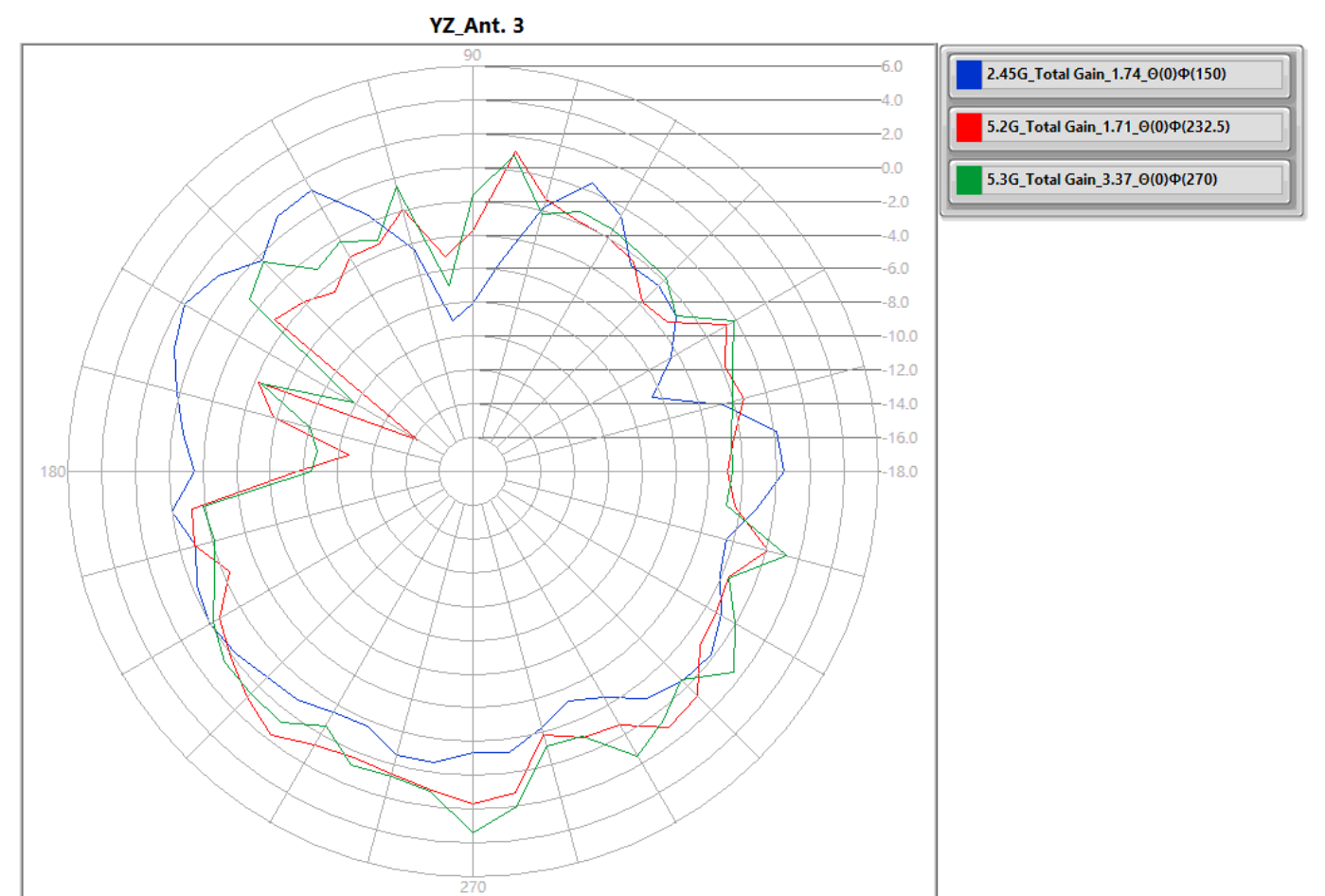
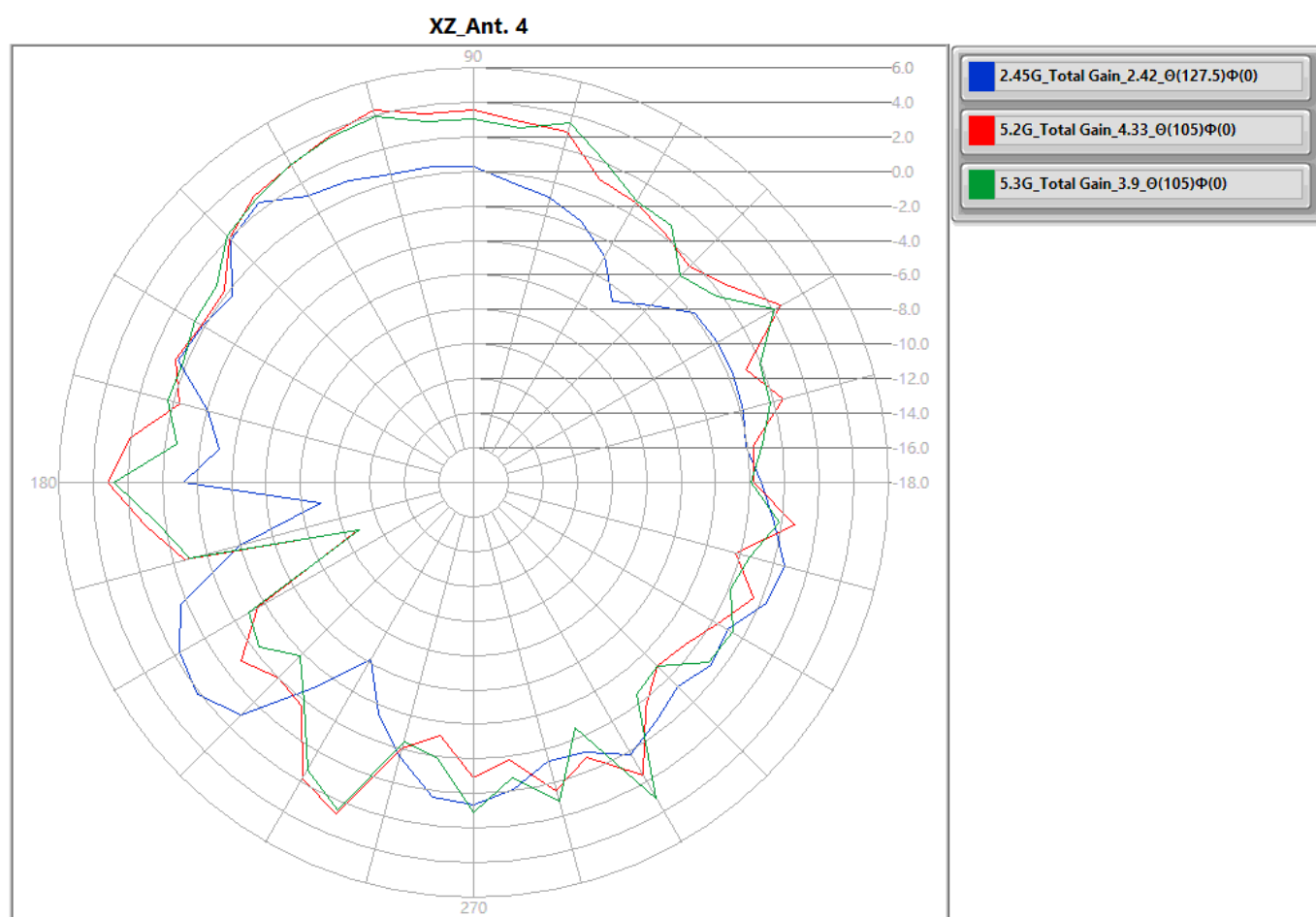
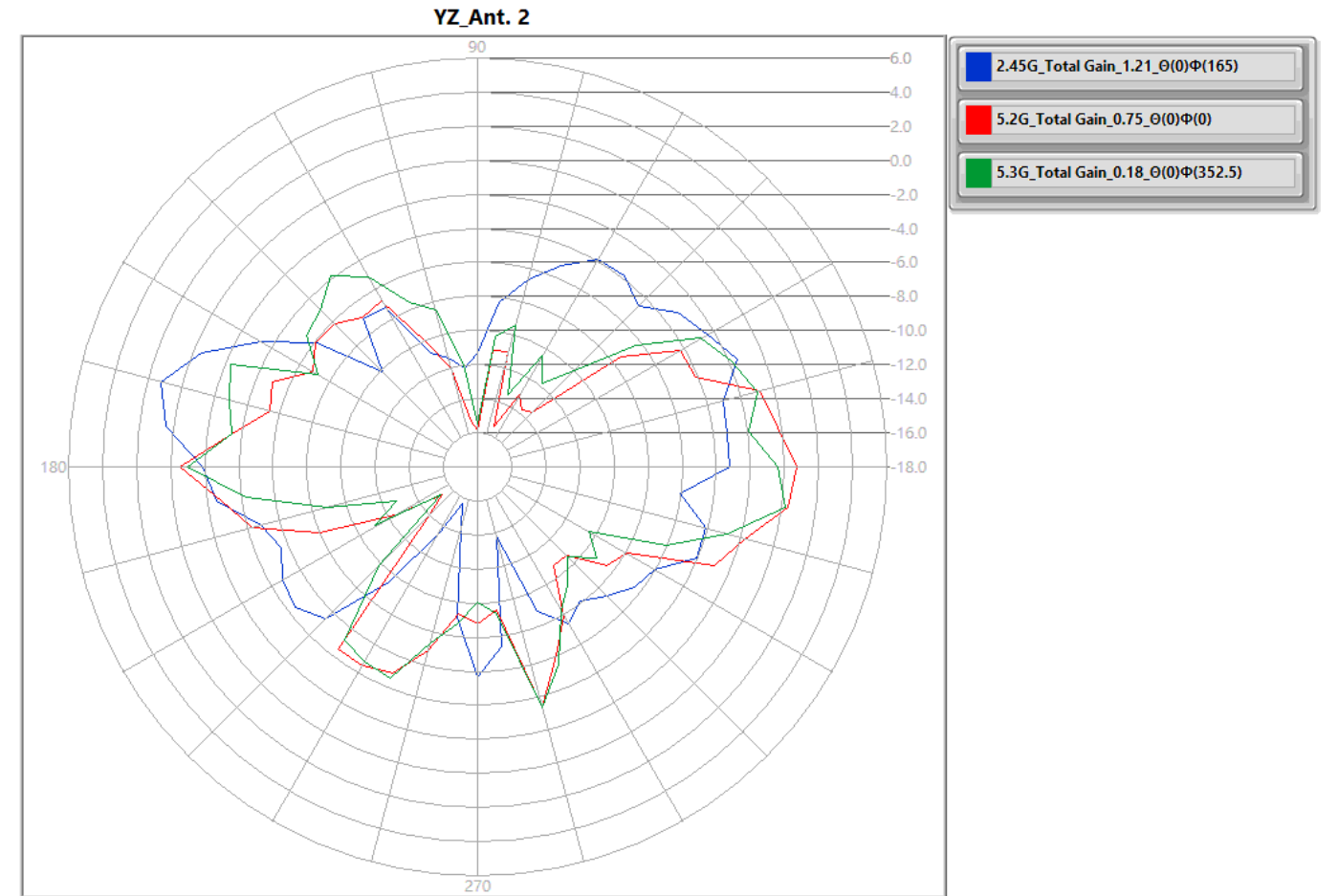
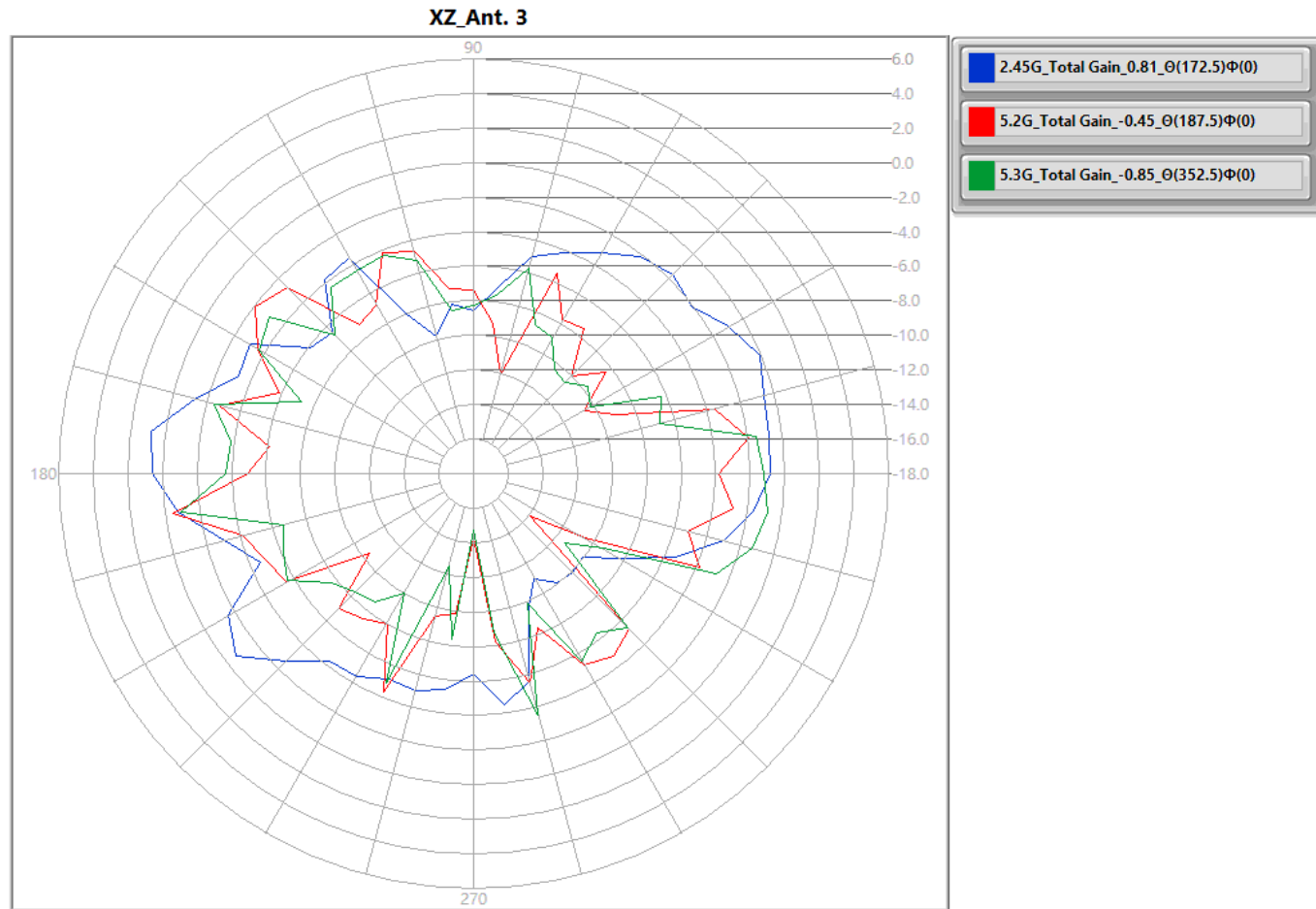
Antenna Pattern

Appendix B.2

Θ (60°)	-8.92/-14.10	-3.78/-3.04	-4.52/-11.39	-11.88/-15.90	-11.87/-9.91	-7.46/-3.67	-1.46/-1.40	-2.13/-1.41	-3.80/-6.04	-8.02/-15.03	-10.56/-5.01	-9.50/-8.98	-5.47/-4.60	-5.66/-3.64	-1.24/-6.83	-10.85/-4.60	-3.09/-2.43	-1.45/-0.57	1.49/0.58	-1.99/-3.60	-5.19/-7.66	-13.66/-14.11	-7.97/-5.55	-9.65/-7.36
Θ (67.5°)	-8.69/-7.40	-10.28/-4.02	-5.55/-6.87	-5.67/-11.57	-9.72/-11.97	-7.13/-2.08	-1.36/-2.04	-7.31/-10.94	-12.96/-14.02	-8.60/-7.67	-7.76/-6.27	-10.62/-7.41	-9.87/-3.72	-3.37/-3.55	-2.06/-2.67	-7.69/-6.44	-1.32/-3.43	-0.27/0.24	-1.06/-2.64	-2.67/-1.01	-5.14/-7.53	-6.50/-7.59	-7.59/-5.87	-9.07/-5.93
Θ (75°)	-5.67/-11.49	-15.34/-1.49	-7.57/-5.24	-9.68/-6.52	-9.28/-9.42	-10.49/-3.09	-2.24/0.18	0.80/-2.85	-7.00/-9.41	-5.84/-6.52	-14.00/-5.22	-7.89/-11.42	-3.54/-2.33	-6.46/-7.82	-1.05/-1.55	-7.22/-10.90	-0.32/-8.78	-0.43/-0.04	-1.12/-3.79	-0.38/-0.49	-4.91/-11.12	-9.50/-3.87	-3.58/-3.61	-3.88/-6.47
Θ (82.5°)	-7.61/-11.02	-8.13/-8.96	-5.32/-7.35	-4.38/-8.82	-14.74/-10.36	-10.00/-1.70	0.88/0.79	-2.37/-2.37	-3.53/-11.78	-7.22/-22.48	-4.76/-8.53	-8.10/-9.58	-8.71/-4.34	-6.67/-8.12	-1.10/-1.19	-7.25/-9.03	0.69/-5.41	1.35/2.65	1.99/-3.82	-1.61/-0.86	-3.42/-7.87	-9.00/-5.45	-5.31/-4.95	-5.87/-4.22
Θ (90°)	-8.30/-6.52	-7.22/-7.96	-7.39/-3.61	-2.53/-7.64	-10.77/-10.63	-8.41/-0.19	-1.67/-4.70	1.12/0.42	-7.67/-6.68	-10.90/-15.55	-8.15/-10.67	-7.07/-5.03	-14.73/-4.85	-5.63/-8.12	-2.16/-3.23	-6.17/-9.84	1.07/-3.14	1.76/-6.62	3.37/-1.44	-2.11/-1.71	-5.41/-8.81	-12.81/-7.27	-5.15/-4.82	-6.13/-5.41
Θ (97.5°)	-8.49/-9.61	-4.29/-10.21	-9.75/-4.84	-1.87/-4.64	-8.54/-9.51	-4.07/-4.48	-6.94/0.20	-0.69/-4.90	-3.78/-4.41	-3.81/-3.59	-5.85/-14.46	-9.56/-8.22	-8.32/-11.05	-6.12/-7.08	1.06/1.94	-7.61/-10.41	-1.28/-3.10	1.42/2.86	1.11/-0.42	-1.20/-2.30	-4.32/-9.26	-13.58/-9.59	-6.24/-6.01	-4.67/-7.42
Θ (105°)	-5.25/-7.93	-4.08/-7.50	-4.18/-3.89	-2.05/-8.14	-8.54/-8.05	-8.01/-0.35	-0.50/-3.17	-3.58/-0.92	-0.30/-8.23	-12.02/-3.74	-8.94/-12.95	-10.73/-6.43	-12.43/-9.17	-5.35/-3.90	-0.61/1.03	-11.28/-15.31	-1.22/-3.92	1.94/2.30	0.70/-2.90	-0.71/0.10	-2.93/-5.28	-13.41/-5.22	-3.17/-6.65	-5.36/-10.07
Θ (112.5°)	-4.34/-5.51	-7.87/-6.40	-3.42/-2.15	-3.70/-11.85	-14.61/-8.69	-0.38/0.36	-3.22/-2.72	-0.78/-1.94	-5.78/-8.14	-15.52/-13.45	-15.46/-14.59	-12.97/-6.08	-4.88/-6.07	-5.05/-2.03	-3.41/-5.43	-14.77/-8.21	-2.98/-5.50	0.84/-1.56	0.78/-3.53	-1.40/0.80	-2.97/-3.68	-8.01/-6.95	-5.47/-6.67	-10.08/-13.42
Θ (120°)	-4.43/-5.04	-4.45/-4.77	-3.22/-3.80	-4.86/-6.44	-14.90/-5.40	-5.37/-3.09	-2.32/-1.32	1.75/-2.21	-6.56/-14.62	-8.11/-7.18	-6.62/-3.49	-5.97/-6.43	-9.98/-4.56	-4.81/-3.82	-7.51/-7.03	-10.97/-6.66	-0.62/-5.47	0.82/-1.16	-2.46/0.19	-5.77/-6.74	-6.61/-5.19	-6.49/-8.90	-7.29/-4.32	-6.24/-9.39
Θ (127.5°)	-4.45/-8.25	-9.17/-2.91	-3.07/-4.57	-3.93/-12.18	-4.49/-5.19	-7.81/-0.62	-2.92/-3.31	0.47/-1.43	-1.28/-0.41	-1.85/-4.74	-11.54/-9.77	-3.33/-6.14	-8.63/-12.16	-7.03/-6.51	-9.40/-9.39	-15.00/-4.28	-2.35/-1.21	1.22/1.55	0.73/-6.14	-5.47/-2.72	-0.63/-3.78	-3.30/-6.02	-6.03/-7.65	-6.57/-8.13
Θ (135°)	-6.62/-4.02	-3.90/-4.71	-2.07/-5.54	-9.12/-4.37	-4.67/-5.29	-0.74/-1.11	-0.46/-2.65	-0.15/-0.13	-1.53/-4.40	-8.83/-14.77	-8.81/-6.63	-9.42/-10.01	-8.37/-7.42	-6.45/-8.06	-5.21/-5.72	-6.68/-5.31	-3.07/-0.15	-0.16/-1.20	0.59/-3.19	-5.77/-6.74	-6.61/-5.19	-6.49/-8.90	-7.29/-4.32	-6.24/-9.39
Θ (142.5°)	-3.13/-1.86	-4.45/-4.48	-3.90/-8.41	-5.43/-5.21	-6.15/-2.69	-2.01/-1.81	-1.29/-3.76	-5.51/-1.74	-0.11/-4.37	-7.69/-3.67	-4.61/-7.71	-9.58/-10.20	-7.64/-5.38	-7.00/-5.37	-5.54/-3.43	-3.88/-3.09	-1.57/0.43	0.23/0.73	0.58/-1.39	-4.58/-6.41	-5.34/-5.92	-5.43/-5.84	-3.95/-3.72	-4.13/-4.69
Θ (150°)	-3.70/-2.36	-4.27/-8.35	-9.21/-5.62	-5.27/-11.82	-4.97/-3.73	-4.93/-3.64	-9.81/-9.89	-3.43/-2.08	-1.45/-1.62	-4.26/-9.71	-11.82/-5.69	-4.88/-8.09	-5.60/-8.73	-10.37/-10.20	-7.90/-1.79	-0.95/0.58	1.66/0.50	-0.94/0.31	-0.20/-1.42	-2.24/-3.59	-3.85/-5.64	-9.34/-13.26	-9.74/-7.95	-7.16/-4.85
Θ (157.5°)	-7.20/-4.45	-4.44/-2.75	-1.06/-1.79	-8.16/-10.27	-4.69/-2.89	-4.01/-4.97	-4.43/-4.74	-6.85/-8.58	-8.09/-5.65	-4.53/-3.78	-4.76/-5.85	-5.52/-3.59	-6.09/-10.12	-8.03/-5.19	-1.19/0.29	1.42/2.74	2.56/-1.61	0.74/0.01	-1.45/-1.70	-1.07/-1.46	-4.10/-6.06	-6.19/-6.23	-7.48/-7.26	-8.19/-7.22
Θ (165°)	-2.45/-0.92	-1.28/-0.86	-2.33/-7.74	-5.13/-2.86	-4.34/-6.28	-9.23/-11.18	-8.03/-7.70	-8.61/-7.23	-3.94/-2.37	-2.25/-1.21	-3.35/-3.19	-6.60/-5.86	-2.48/-0.69	-0.07/-0.47	-1.03/1.12	1.88/2.13	1.81/0.39	-2.13/-4.01	-4.35/-3.88	-2.99/-1.48	-6.55/-2.50	-2.46/-2.49	-1.81/-2.03	
Θ (172.5°)	-3.83/-4.67	-6.00/-7.38	-10.41/-5.04	-3.74/-5.97	-12.65/-10.91	-7.07/-6.59	-8.71/-11.23	-7.07/-3.21	-0.62/0.33	0.46/-0.37	-1.57/-3.38	-1.90/-0.41	-0.89/0.54	0.55/-0.23	-0.94/-1.24	-1.00/-0.40	0.12/0.74	0.44/-0.78	-1.88/-2.97	-3.44/-3.71	-3.32/-3.86	-4.74/-3.63	-3.38/-4.55	-3.33/-5.20
Θ (180°)	-3.67/-3.71	-3.51/-2.33	-1.57/-1.24	-3.32/-3.52	-9.43/-6.68	-5.27/-6.80	-8.45/-5.28	-2.06/-1.17	-1.85/-3.16	-4.31/-3.06	-2.75/-2.27	-2.02/-2.06	-3.03/-2.28	-2.77/-3.02	-3.46/-3.14	-2.56/-2.20	-2.18/-1.63	-2.14/-1.99	-1.86/-1.90	-1.78/-1.57	-1.51/-1.67	-1.77/-2.40	-3.20/-3.05	-4.04/-3.94
Freq(Hz)	2.45G/Pol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-1.35/-1.22	-1.26/-1.33	-1.55/-1.91	-2.35/-2.69	-2.32/-2.31	-2.68/-3.43	-2.96/-2.28	-1.91/-2.89	-3.80/-2.88	-1.64/-1.07	-0.69/-0.45	-0.68/-1.62	-2.58/-2.75	-2.35/-2.46	-2.82/-2.88	-2.58/-2.00	-2.39/-3.44	-3.28/-2.82	-2.96/-3.25	-3.37/-3.75	-3.68/-3.12	-2.74/-2.51	-2.12/-1.61	-1.43/-1.42
Θ (7.5°)	-2.14/-1.22	-2.39/-2.77	-2.81/-2.63	-4.14/-3.54	-4.14/-3.89	-4.21/-5.22	-3.87/-2.41	-1.56/-2.09	-3.01/-2.86	-1.48/-0.50	0.03/-0.35	0.51/0.32	-0.43/-1.23	-1.02/-0.75	-1.10/-1.69	-2.13/-2.43	-3.22/-2.90	-3.17/-2.64	-2.18/-2.76	-3.23/-3.60	-3.64/-3.40	-3.13/-2.93	-2.67/-2.61	-2.50/-2.23
Θ (15°)	-1.86/-1.60	-1.12/-0.65	-0.41/-0.48	-0.52/-0.39	-0.69/-1.00	-0.84/-2.15	-3.37/-1.76	-0.92/-1.77	-2.80/-2.40	-1.20/-0.32	0.12/0.30	0.59/0.88	0.60/-0.33	-1.01/-1.16	-1.49/-2.58	-3.34/-4.23	-4.75/-4.92	-5.58/-6.46	-4.94/-4.20	-4.92/-5.10	-4.52/-4.16	-3.70/-3.19	-2.98/-2.76	-2.24/-1.98
Θ (22.5°)	-1.75/-1.09	-0.54/-0.34	-0.03/-0.19	0.06/0.01	0.04/-0.77	-1.48/-0.87	-1.43/-1.18	-0.40/0.17	-1.20/-1.17	-0.48/-0.30	0.11/0.62	-0.33/-1.03	-2.67/-3.40	-3.79/-5.11	-5.45/-4.78	-5.15/-5.54	-5.30/-6.19	-6.65/-6.24	-6.99/-6.99	-5.66/-4.94	-4.03/-3.31	-3.03/-2.39	-2.65/-1.86	
Θ (30°)	-1.73/-1.11	-0.67/-0.04	-0.12/-0.38	-0.15/-0.33	-0.72/-0.01	-0.66/-2.72	-2.00/-1.60	-0.69/0.63	0.58/-0.11	-0.12/-0.74	-1.22/-1.01	-0.70/-0.39	-1.02/-2.43	-2.99/-3.10	-4.30/-5.64	-4.52/-4.22	-6.74/-4.50	-2.82/-2.46	-3.52/-4.48	-5.67/-6.90	-6.17/-5.61	-4.54/-3.91	-3.25/-2.55	-2.43/-2.14
Θ (37.5°)	-1.85/-1.28	-0.61/-0.67	-0.56/-0.00	0.42/0.84	0.40/0.24	0.37/-2.17	-4.46/-2.56	-1.97/-1.79	0.08/0.92	0.20/-0.78	-0.94/0.02	0.05/-0.35	-0.64/-1.47	-1.58/-1.59	-2.71/-3.79	-4.72/-4.47	-5.07/-5.82	-3.20/-1.49	-2.16/-3.32	-4.68/-5.34	-4.68/-4.54	-4.07/-4.30	-3.44/-3.11	-2.84/-2.63
Θ (45°)	-3.48/-3.26	-2.42/-1.33	-0.45/0.05	0.24/0.50	0.78/0.31	-0.08/-0.80	-3.72/-3.72	-1.48/-3.59	-2.96/0.79	0.16/-1.62	-0.79/0.14	-0.62/-1.64	-1.32/-2.10	-3.01/-4.31	-6.22/-5.76	-5.85/-6.93	-6.56/-7.17	-7.25/-4.51	-4.32/-3.55	-5.36/-4.89	-3.44/-3.34	-3.32/-3.85	-3.89/-4.06	-4.40/-3.94
Θ (52.5°)	-4.84/-3.42	-2.48/-1.76	-0.60/-0.35	0.27/-0.72	-1.53/-0.80	-0.87/-1.23	-2.97/-4.34	-1.09/-2.08	-6.38/-0.39	-0.43/-2.21	-0.44/-0.23	-0.85/-1.08	-5.94/-6.27	-9.88/-7.68	-5.94/-6.38	-6.78/-7.93	-9.31/-8.25	-8.46/-9.57	-6.62/-4.13	-2.97/-3.77	-4.09/-3.53	-4.38/-4.03	-6.10/-4.93	
Θ (60°)	-2.87/-1.86	-1.29/-0.63	-0.30/-0.75	-1.07/-1.51	-2.86/-2.95	-1.99/-1.82	-2.38/-3.95	-1.35/-1.69	-5.32/-1.44	-1.98/-3.18	-0.75/0.14	0.66/0.51	0.17/-1.03	-4.58/-6.76	-8.39/-8.19	-6.43/-6.27	-7.80/-10.83	-13.15/-10.10	-9.18/-12.99	-8.85/-4.80	-2.87/-4.36	-6.54/-4.67	-4.75/-4.40	-5.45/-5.46
Θ (67.5°)	-1.68/0.21	0.13/0.08	0.04/-0.96	-3.01/-4.60	-5.31/-5.16	-3.81/-2.53	-2.46/-3.81	-2.92/-1.79	-3.64/-2.31	-2.77/-3.24	-1.09/-1.00	0.82/0.07	-1.10/-1.27	-4.35/-3.76	-10.28/-11.57	-8.38/-7.22	-9.83/-13.53	-10.36/-10.40	-8.99/-11.89	-14.97/-8.89	-4.17/-5.58	-7.14/-5.99	-5.18/-3.38	-4.09/-5.80
Θ (75°)	-0.95/0.94	1.38/-1.37	0.61/-0.62	-3.25/-5.36	-6.62/-6.81	-5.86/-4.64	-4.17/-4.40	-3.92/-2.08	-2.79/-2.29	-2.86/-2.92	-1.24/-0.03	-1.45/-1.20	-1.34/-1.48	-4.48/-6.59	-13.20/-15.16	-12.59/-9.93	-12.66/-15.56	-9.51/-7.40	-7.98/-8.81	-11.20/-11.99	-7.23/-7.87	-7.23/-6.11	-5.64/-2.82	-2.22/-5.37
Θ (82.5°)	-0.54/-1.10	1.98/2.09	1.78/-0.02	-3.53/-5.88	-7.07/-8.03	-6.90/-5.18	-5.47/-4.43	-5.19/-3.60	-2.02/-2.43	-3.31/-3.20	-2.44/-2.96	-1.73/0.08	-0.07/-1.67	-3.25/-4.43	-8.62/-12.97	-11.29/-9.46	-10.27/-13.06	-12.11/-6.82	-7.67/-8.66	-9.47/-9.77	-8.03/-8.52	-7.12/-5.78	-4.69/-2.39	-1.82/-3.53
Θ (90°)	0.30/-1.30	1.29/-1.91	1.98/0.59	-2.17/-4.25	-5.37/-7.12	-7.67/-6.42	-6.25/-4.46	-5.22/-5.35	-0.89/-3.55	-3.66/-3.86	-5.52/-3.44	0.10/0.92	0.65/-1.02	-2.69/-4.08	-7.46/-9.29	-10.41/-11.00	-8.65/-8.99	-9.20/-6.26	-9.38/-10.96	-10.74/-9.41	-9.00/-11.88	-6.19/-6.48	-5.04/-1.26	-1.04/-2.69
Θ (97.5°)	0.41/-1.16	2.10/2.00	1.65/0.03	-2.17/-3.47	-4.74/-6.32	-9.56/-10.62	-7.58/-4.60	-5.65/-5.79	-2.26/-3.31	-2.36/-5.14	-5.73/-2.78	0.05/-1.29	0.35/-1.40	-5.13/-8.24	-10.54/-10.90	-10.84/-12.45	-11.52/-10.73	-7.27/-5.31	-9.52/-10.40	-12.88/-9.40	-8.58/-10.08	-5.69/-6.04	-4.91/-9.07	-0.12/-1.94
Θ (105°)	0.50/0.92	2.09/2.02	1.58/-0.28	-2.59/-4.05	-4.29/-4.42	-7.15/-10.61	-7.83/-4.28	-5.06/-4.78	-4.18/-1.98	-1.99/-4.75	-4.61/-1.86	0.22/0.96	-1.51/-6.35	-8.51/-8.66	-10.54/-10.89	-14.77/-15.13	-11.69/-10.07	-7.37/-6.16	-9.32/-11.04	-15.80/-10.59	-7.50/-8.52	-5.64/-5.90	-4.50/-1.37	0.12/-3.71
Θ (112.5°)	0.88/-1.60	1.95/0.25	1.35/-0.32	-2.69/-4.81	-5.23/-5.11	-7.55/-14.48	-8.10/-5.25	-5.99/-4.50	-5.57/-2.30	-1.48/-2.96	-2.91/-0.41	0.58/-0.89	-3.54/-6.35	-6.91/-7.80	-11.75/-15.21	-14.38/-10.31	-7.29/-7.66	-6.54/-6.72	-10.97/-13.33</					

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

Appendix B.3

Mode 3 Total Gain Data

Freq(Hz)	5.6G/Pol.	TotalAnt. 1	-		-		-		-		-		-		-		-		-		-		-		-		-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)				
Θ(0°)	-3.57/-3.49	-3.29/-3.34	-3.02/-2.84	-2.99/-2.71	-2.98/-2.91	-2.76/-2.61	-2.55/-1.71	-2.74/-1.96	-2.35/-2.30	-1.87/-2.17	-2.39/-3.31	-3.17/-3.75	-4.18/-2.85	-2.26/-1.82	-1.66/-2.81	-2.35/-1.41	-2.95/-2.44	-2.72/-3.06	-2.61/-2.69	-2.84/-3.29	-3.06/-2.95	-3.08/-3.11	-3.20/-3.37	-3.18/-3.45				
Θ(7.5°)	-2.22/-2.32	-2.26/-2.45	-2.40/-2.34	-2.27/-2.30	-2.79/-2.76	-2.99/-3.11	-3.28/-3.41	-3.12/-4.72	-3.41/-4.48	-3.93/-4.01	-3.60/-4.38	-5.22/-5.31	-4.45/-3.67	-3.21/-2.76	-2.27/-2.19	-1.91/-1.44	-0.43/-1.68	-0.14/-0.91	-0.91/-1.20	-0.99/-1.43	-1.30/-1.41	-1.41/-1.14	-1.51/-1.51	-1.76/-2.02				
Θ(15°)	-2.70/-2.30	-2.43/-2.60	-2.81/-1.92	-2.07/-1.93	-2.06/-2.49	-3.45/-3.75	-5.21/-5.92	-5.01/-6.85	-5.89/-6.13	-4.43/-4.21	-3.13/-1.89	-2.41/-2.92	-1.83/-1.17	-0.34/-0.41	0.04/0.22	-0.11/-0.19	-0.58/-0.92	-1.32/-1.96	-1.81/-2.42	-2.90/-3.14	-3.75/-3.34	-3.16/-2.70						
Θ(22.5°)	-2.61/-2.18	-1.77/-1.88	-1.21/-1.20	-1.35/-2.02	-2.39/-3.44	-4.18/-5.25	-7.28/-9.23	-7.84/-7.10	-4.89/-4.62	-1.70/-1.00	-0.50/-0.76	-0.12/-0.61	-0.43/-0.86	-1.85/-1.38	-1.80/-1.78	-0.61/-0.64	0.03/-0.15	0.12/0.38	0.55/-0.48	-1.06/-1.77	-3.49/-4.10	-4.51/-3.57	-3.49/-3.43	-3.23/-2.57				
Θ(30°)	-2.02/-0.82	0.28/0.08	0.21/0.29	0.67/0.10	-1.00/-3.09	-5.61/-9.33	-10.58/-12.31	-9.63/-7.94	-4.04/-1.68	0.92/1.12	2.36/1.45	0.90/0.60	0.68/-1.09	-1.23/-1.38	-1.42/-1.00	-0.50/0.23	-0.13/-0.22	0.33/0.11	-0.32/-0.99	-1.80/-3.60	-4.43/-4.96	-5.48/-6.34	-4.91/-4.74	-4.33/-3.92				
Θ(37.5°)	-2.97/-1.80	-1.29/0.15	0.07/1.63	1.71/1.55	0.68/-1.06	-5.13/-14.92	-14.59/-11.57	-7.00/-3.00	-0.85/-1.64	2.68/2.59	3.04/0.91	0.89/0.34	-1.27/-3.29	-4.13/-5.12	-5.86/-3.45	-2.46/-1.89	-1.40/-3.16	-3.05/-1.61	-1.05/-1.26	-2.63/-3.96	-3.58/-3.12	-3.20/-3.89	-3.37/-4.46	-5.59/-4.97				
Θ(45°)	-4.22/-3.39	0.10/0.58	0.63/1.60	1.76/2.38	2.19/-0.07	-2.98/-7.12	-9.22/-9.84	-5.47/-1.80	0.16/1.74	2.85/2.39	1.80/1.19	1.01/-0.90	-2.89/-3.27	-3.22/-2.52	-2.68/-1.56	-2.27/-1.78	-1.87/-3.46	-5.04/-0.41	-3.31/-3.48	-2.87/-2.59	-1.88/-1.13	-1.50/-2.99	-3.47/-3.11	-3.07/-3.15				
Θ(52.5°)	-3.72/-1.35	0.06/1.49	1.90/1.98	2.29/2.84	2.24/1.31	-0.07/-2.68	-4.89/-5.19	-3.52/-0.99	0.36/2.29	1.71/1.87	0.37/1.37	0.15/-1.21	-1.03/-1.66	-1.95/-3.24	-5.14/-3.04	-1.26/-1.74	-1.78/-3.71	-6.06/-4.68	-3.49/-3.71	-3.02/-1.89	-1.18/-1.26	-1.41/-2.40	-4.54/-3.75	-2.67/-1.91				
Θ(60°)	-2.38/-1.33	1.00/2.11	3.01/2.40	2.66/2.96	2.02/1.33	0.52/0.04	-2.22/-4.11	-1.75/-0.94	0.19/1.07	1.32/0.13	0.23/-0.80	-3.27/-2.76	-3.08/-3.29	-4.58/-8.22	-5.00/-3.78	-1.28/-1.57	-4.93/-5.90	-6.48/-8.86	-6.75/-3.29	-4.26/-3.39	-3.36/-4.11	-4.77/-4.62	-4.17/-0.99					
Θ(67.5°)	-3.62/-0.51	0.91/3.05	3.70/3.48	2.83/2.86	1.86/0.59	0.44/0.43	-1.24/-3.65	-1.34/-1.54	-1.33/-2.01	0.13/-0.86	-0.98/-4.11	-3.31/-4.72	-3.47/-3.39	-5.09/-5.04	-5.49/-4.04	-6.51/-3.80	-5.17/7.03	-7.77/-7.11	-5.88/-6.82	-7.60/-5.06	-3.43/-5.58	-6.54/-5.4	-4.00/-2.15					
Θ(75°)	-3.96/-1.19	0.18/2.61	3.02/3.41	2.26/2.55	1.17/0.89	-0.53/0.58	-1.77/-2.23	-0.67/-1.68	-4.18/-3.37	-0.56/-1.48	-1.31/-1.14	-3.42/-3.49	-4.77/-3.83	-4.69/-2.57	-2.59/-3.37	-5.37/-4.36	-7.94/-5.32	-7.97/-13.14	-5.84/-5.36	-7.02/-5.63	-4.93/-7.20	-6.75/-7.00	-5.63/-4.93					
Θ(82.5°)	-5.10/-4.97	-1.95/-0.34	1.48/2.31	1.13/1.73	0.90/0.64	-0.01/-1.18	-1.73/-2.18	-0.53/-2.41	-5.70/-2.41	-0.49/-1.33	-2.22/-0.63	-2.69/-4.83	-8.86/-5.50	-6.60/-8.71	-7.41/-4.05	-2.33/-3.23	-5.07/-5.35	-10.01/-11.72	-9.25/-7.49	-6.82/-6.16	-5.44/-8.56	-4.88/-8.67	-7.91/-9.44	-3.81/-5.96				
Θ(90°)	-8.68/-9.57	-2.41/-1.59	1.52/1.86	1.18/1.11	0.61/1.56	0.00/-2.10	-2.03/-1.64	-1.79/-2.45	-2.33/-0.93	-1.20/-1.66	-1.40/-0.20	-4.21/-2.82	-8.69/-8.03	-10.06/-11.41	-13.10/-12.18	-8.18/-6.01	-7.61/-6.10	-8.71/-14.43	-13.21/-9.62	-5.38/-6.54	-6.06/-6.56	-7.04/-10.31	-11.85/-8.52	-4.08/-5.90				
Θ(97.5°)	-8.08/-6.37	-3.28/-1.58	0.50/1.76	0.32/0.41	-0.46/0.68	-0.05/-0.74	-2.17/-2.24	-1.92/-0.64	-1.90/-1.79	-0.55/0.02	-0.94/0.03	-5.02/-4.04	-7.86/-7.93	-9.57/-11.35	-6.68/-14.61	-14.50/-13.11	-12.08/-12.94	-11.22/-15.63	-15.59/-7.65	-12.07/-6.37	-9.88/-7.67	-9.50/-11.39	-13.48/-10.31	-7.33/-8.55				
Θ(105°)	-7.17/-7.33	-3.68/-2.78	-0.52/0.09	0.05/0.41	-0.67/-1.43	-0.24/0.23	-1.84/-1.41	-1.88/-1.77	-2.59/-0.58	0.16/0.43	-1.57/-3.57	-7.53/-5.20	-10.92/-9.34	-8.05/-5.12	-12.73/-9.64	-13.91/-15.90	-16.04/-13.20	-14.64/-11.97	-13.13/-6.80	-10.62/-0.11	-11.62/-12.73	-15.83/-15.23	-13.38/-13.86	-13.44/-15.06				
Θ(112.5°)	-6.98/-4.85	-4.20/-3.97	-2.48/-1.94	0.25/-1.47	-1.44/-1.62	-0.12/0.68	-1.14/-1.82	-2.57/-2.04	-0.90/0.33	0.12/-0.52	-3.81/-6.75	-7.85/-8.92	-9.04/-7.52	-8.33/-11.91	-5.20/-12.60	-11.85/-11.11	-15.48/-14.87	-12.62/-11.43	-11.58/-8.49	-12.69/-11.83	-12.56/-15.55	-8.50/-7.14	-11.39/-9.73	-11.48/-8.01				
Θ(120°)	-3.18/-2.25	-1.41/-1.99	-4.04/-3.38	-1.04/-1.97	-1.17/-0.62	0.49/0.66	-0.15/-2.04	-1.61/-0.73	-0.19/0.93	0.45/-0.60	-0.19/-2.04	-10.51/-8.47	-3.78/-7.54	-13.70/-15.92	-13.21/-11.64	-12.53/-15.24	-15.16/-13.98	-15.48/-14.24	-9.76/-5.15	-5.87/-5.15	-4.41/-2.40	-6.13/-4.30	-6.28/-5.12					
Θ(127.5°)	-1.73/-1.54	-0.40/-1.40	-2.11/-1.61	-0.82/-1.74	-0.87/0.03	0.97/1.78	1.13/-1.07	-1.78/-1.16	-1.38/-0.52	-0.15/0.29	-3.49/-1.62	-10.80/-11.38	-8.81/-11.43	-12.40/-12.24	-9.74/-12.10	-15.82/-13.74	-13.50/-14.60	-13.64/-13.12	-8.77/-11.44	-14.50/-10.38	-12.57/-11.78	-14.23/-10.80	-8.65/-5.30	-4.41/-5.67				
Θ(135°)	-5.33/-4.19	-2.59/-3.18	-3.55/-3.20	-2.41/-1.68	-1.07/0.19	0.49/0.72	0.03/-0.69	-2.05/-2.05	-2.17/-1.10	-1.32/-1.23	-1.41/-3.55	-12.87/-8.53	-9.83/-12.08	-7.82/-6.43	-9.60/-13.45	-11.90/-15.46	-15.67/-14.80	-15.36/-12.22	-10.47/-10.57	-15.16/-15.35	-14.86/-14.58	-14.82/-11.15	-7.98/-7.13	-5.19/-7.55				
Θ(142.5°)	-4.95/-6.83	-4.41/-3.83	-4.63/-3.22	-2.17/-2.59	-2.14/-0.34	0.85/0.14	-1.10/-2.08	-1.56/-1.01	-1.57/-2.68	-1.69/-1.93	-4.76/-7.94	-6.30/-4.28	-5.98/-10.37	-10.27/-11.16	-15.76/-14.57	-15.52/-15.96	-14.72/-15.05	-15.52/-15.96	-14.92/-9.11	-8.19/-8.10	-6.13/-4.30	-6.13/-4.30	-5.26/-4.44					
Θ(150°)	-7.24/-7.00	-8.09/-7.57	-5.19/-3.41	-1.92/-1.00	-0.58/0.27	0.62/-0.64	-1.90/-4.67	-4.66/-2.76																				

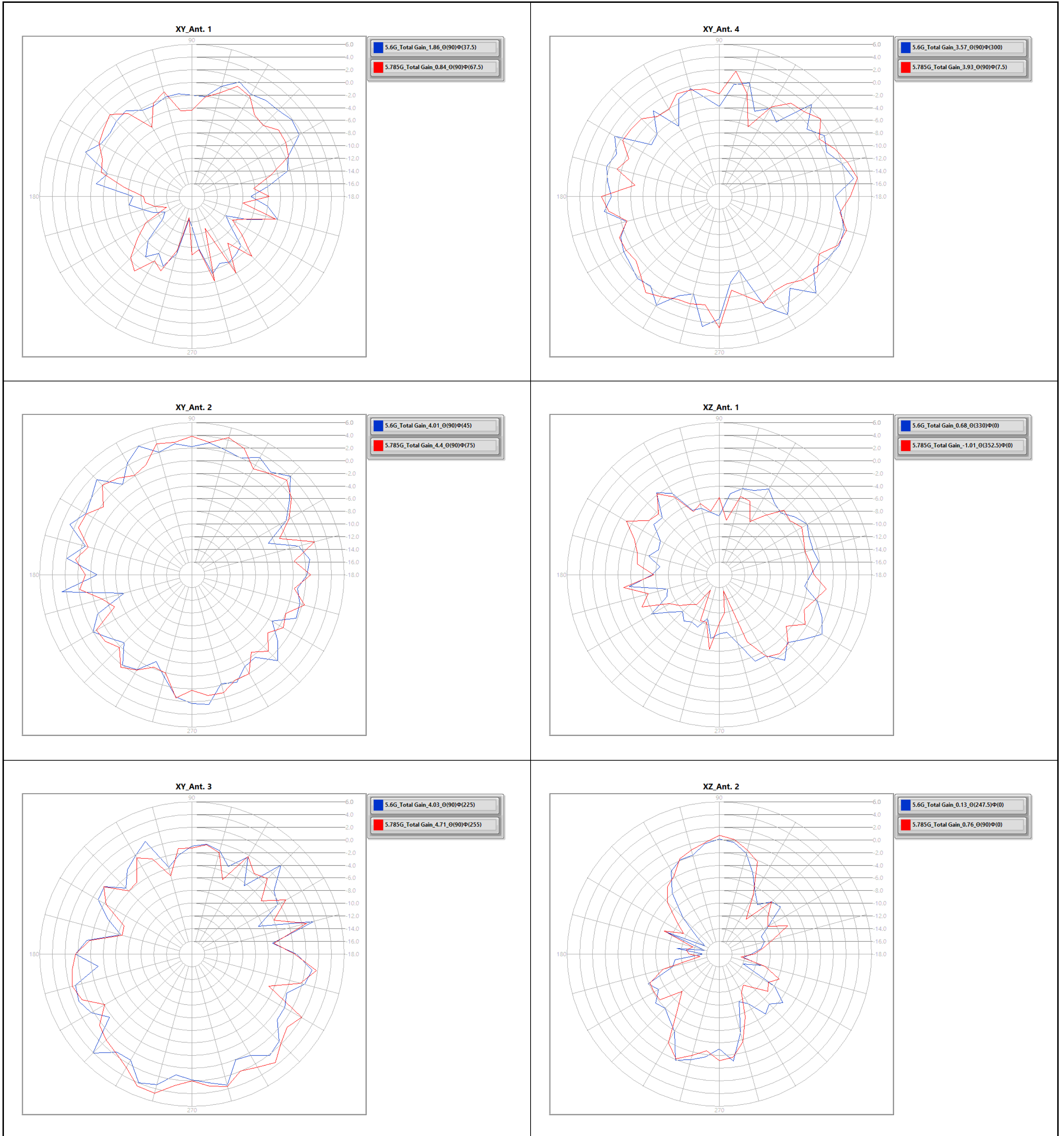


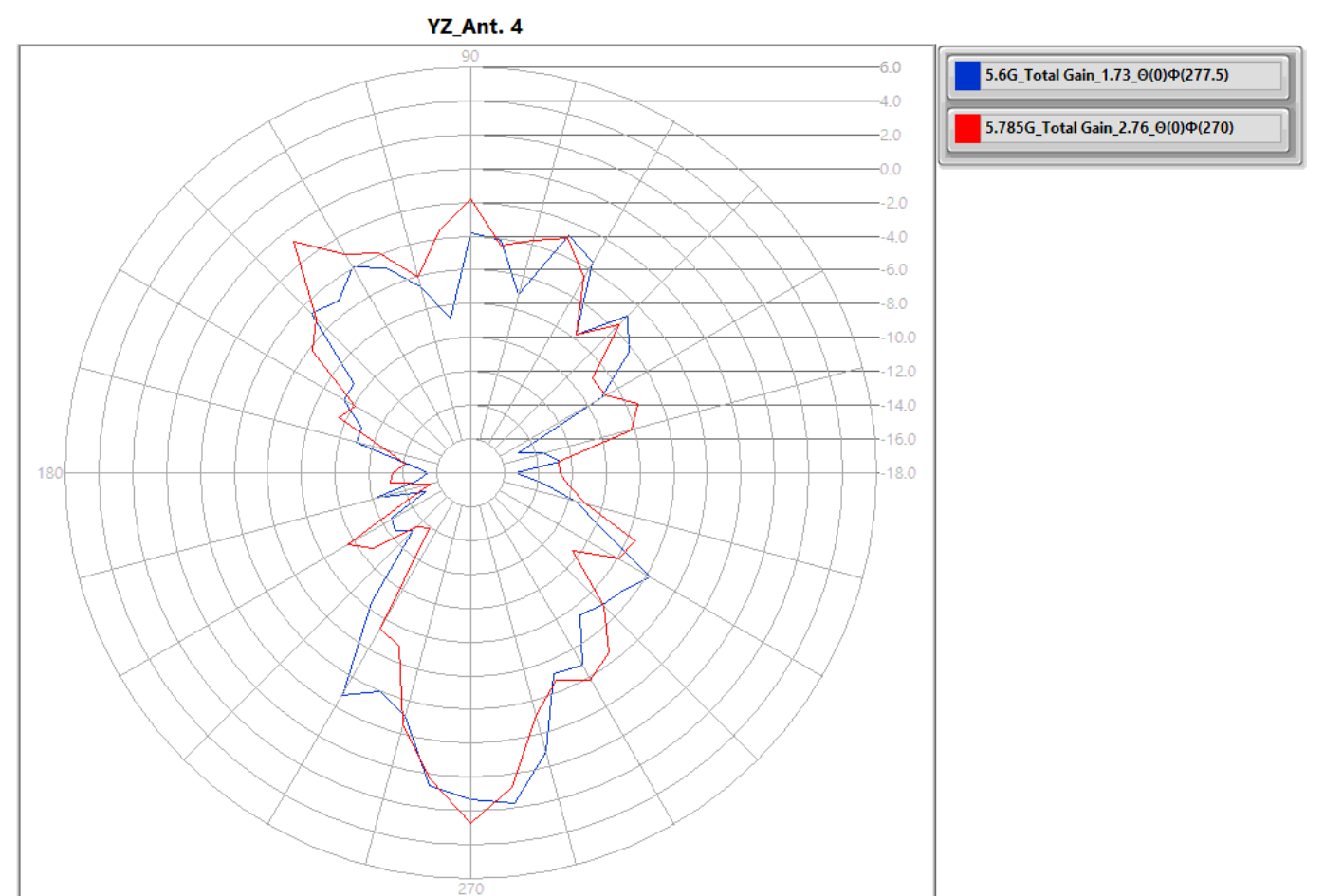
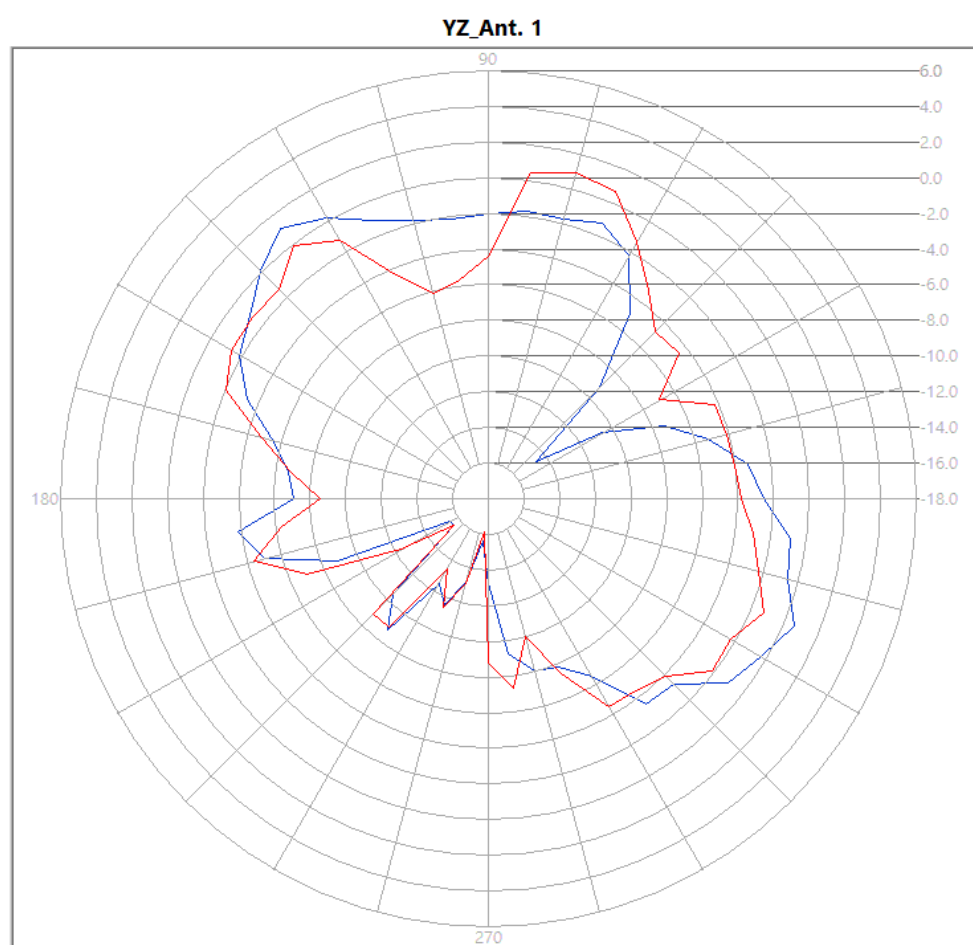
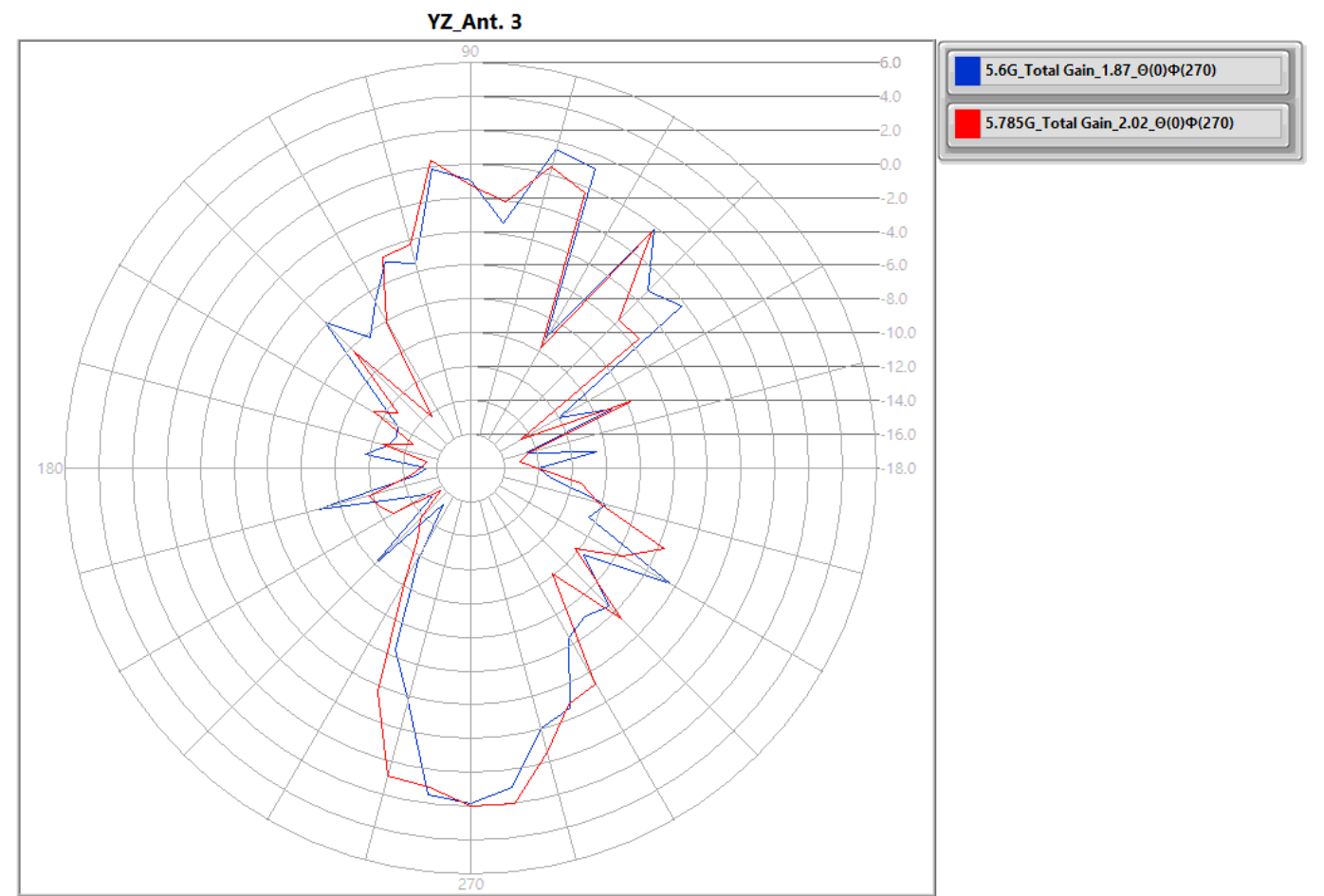
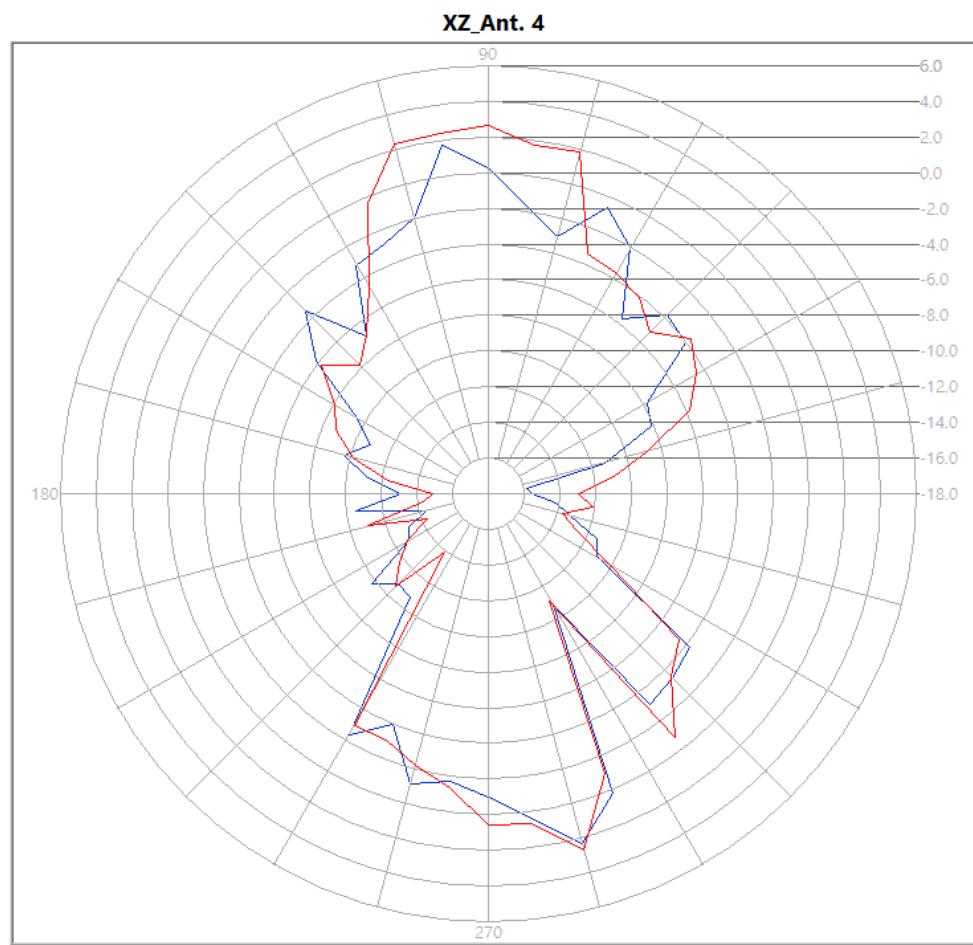
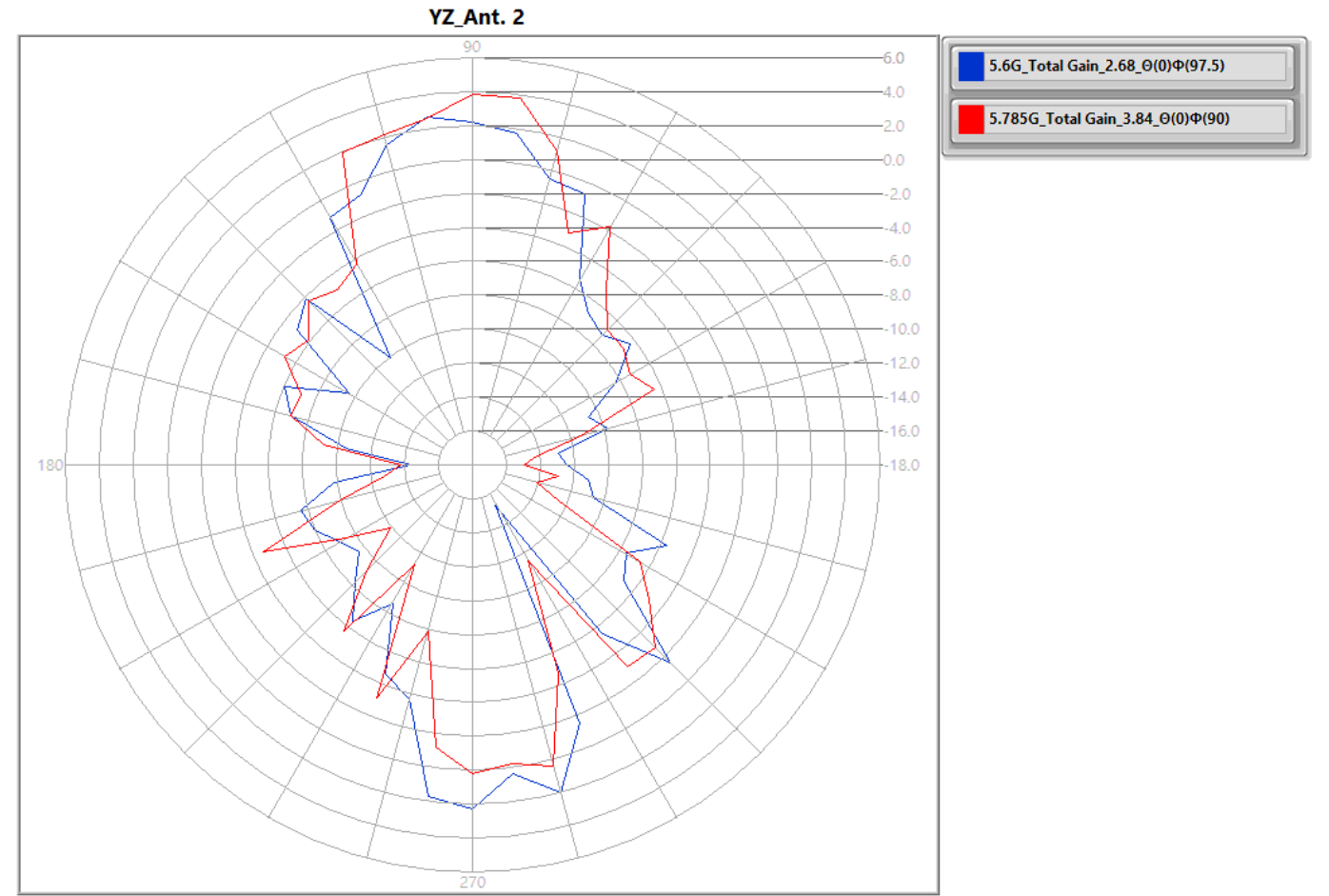
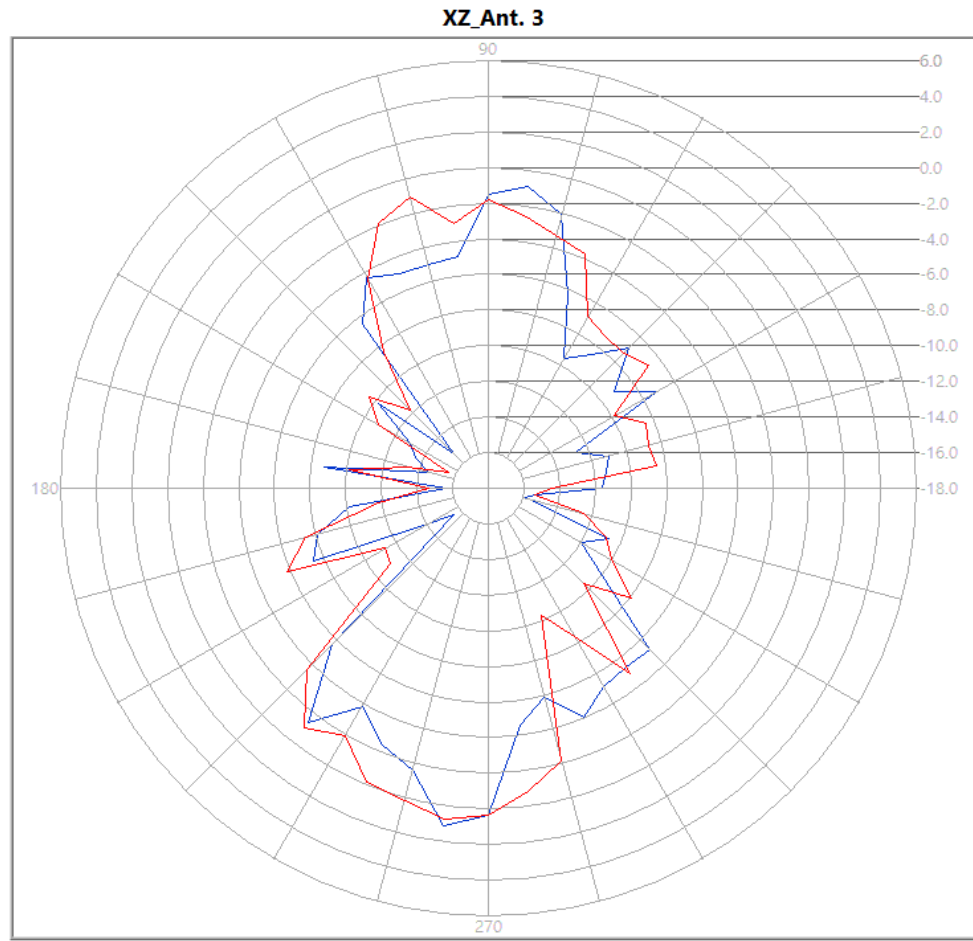
Antenna Pattern

Appendix B.3

Θ(15°)	-10.99/-9.97	-9.26/-8.33	-8.98/-11.53	-13.24/-11.65	-13.90/-14.15	-14.16/-13.81	-14.63/-15.49	-14.32/-14.83	-15.89/-15.67	-15.86/-14.69	-15.04/-15.45	-15.07/-16.07	-15.86/-15.53	-14.67/-13.91	-12.28/-12.00	-12.15/-11.03	-9.43/-8.11	-8.09/-9.12	-9.69/-10.37	-10.87/-10.30	-10.74/-10.25	-9.90/-10.46	-11.01/-11.38	-12.93/-11.97
Θ(22.5°)	-12.73/-13.77	-15.14/-11.76	-9.55/-8.53	-9.31/-11.78	-11.78/-11.57	-10.06/-9.90	-8.97/-8.83	-8.47/-8.07	-8.98/-10.35	-10.63/-11.15	-12.75/-15.96	-14.99/-11.84	-10.67/-10.26	-10.31/-10.22	-9.52/-10.65	-10.69/-8.72	-7.43/-9.12	-10.33/-9.98	-10.46/-9.46	-8.55/-7.59	-7.82/-8.07	-7.36/-8.92	-11.38/-10.06	-9.79/-10.60
Θ(35°)	-7.12/-6.66	-10.84/-9.12	-7.67/-6.76	-5.89/-3.77	-3.29/-3.62	-5.11/-7.67	-12.01/-15.40	-11.86/-8.45	-7.53/-7.34	-11.98/-9.69	-6.70/-6.17	-7.66/-11.49	-11.98/-9.69	-7.78/-6.17	-8.08/-8.03	-6.76/-5.63	-5.77/-4.25	-4.33/-6.99	-8.30/-4.71	-3.52/-4.18	-4.21/-6.63	-5.53/-5.90	-8.77/-10.65	
Θ(37.5°)	-9.11/-9.34	-7.76/-6.28	-8.09/-9.51	-10.74/-10.61	-13.23/-10.39	-6.49/-3.02	-2.26/-3.71	-5.88/-5.25	-5.60/-5.35	-4.11/-7.15	-9.74/-9.51	-6.27/-6.23	-9.97/-7.56	-5.61/-7.89	-7.64/-6.95	-7.25/-8.12	-8.29/-12.13	-10.66/-10.46	-9.60/-6.85	-6.24/-7.15	-7.37/-9.74	-6.48/-5.75	-5.92/-4.51	-8.36/-10.19
Θ(45°)	-6.82/-3.60	-4.30/-6.39	-1.46/-6.60	-0.31/-0.70	-0.71/-0.40	0.72/-0.52	-3.18/-5.63	-5.52/-3.85	-1.34/-2.74	-7.67/-6.76	-10.27/-9.57	-11.41/-5.41	-5.17/-9.23	-10.10/-9.50	-4.61/-6.58	-4.80/-8.40	-6.88/-9.73	-9.94/-7.33	-6.47/-8.33	-9.12/-8.29	-8.20/-7.16	-5.54/-5.73	-8.42/-5.89	-5.50/-6.61
Θ(52.5°)	-8.50/-4.18	-5.05/-8.39	-4.16/-4.68	-8.33/-7.73	-8.62/-4.16	-0.45/-0.60	-0.24/-1.94	-3.39/-2.87	-3.54/-3.07	-4.62/-7.16	-12.32/-5.92	-6.60/-10.62	-5.32/-5.84	-5.90/-5.75	-5.71/-5.67	-7.69/-7.63	-7.15/-4.06	-3.56/-6.40	-6.93/-5.55	-6.42/-7.60	-9.68/-11.72	-6.48/-8.23	-5.54/-8.90	-4.39/-5.84
Θ(60°)	-9.59/-7.98	-8.66/-9.72	-13.64/-5.31	-8.20/-9.78	-5.11/-7.86	-9.59/-10.01	-9.10/-14.11	-15.13/-6.27	-5.95/-7.48	-5.54/-8.87	-4.22/-7.74	-4.69/-7.49	-5.11/-10.17	-5.68/-4.67	-7.15/-8.90	-5.02/-2.20	-7.47/-7.91	-3.94/-4.76	-6.39/-5.32	-5.99/-5.75	-6.35/-7.43	-4.97/-5.24	-3.30/-5.40	-2.27/-9.13
Θ(67.5°)	-6.27/-8.29	-1.33/-5.80	-5.72/-3.09	-3.76/-2.77	-2.85/-3.41	-1.42/-0.80	1.18/-2.33	-2.04/-2.95	-7.13/-15.74	-4.94/-7.25	-3.76/-7.04	-3.04/-5.22	-4.11/-13.45	-4.61/-2.58	-5.59/-7.90	-2.17/-2.68	-8.81/-1.50	0.08/-4.26	-2.65/-0.07	-1.29/-3.34	-1.63/-0.54	-2.48/-2.46	-3.98/-5.47	-1.73/-4.14
Θ(75°)	-2.09/-6.26	1.62/-2.39	-4.64/-2.67	1.68/-0.53	-0.41/-0.80	-1.74/-0.49	1.55/-0.59	-1.64/-2.74	-2.12/-3.03	-8.91/-6.49	-3.95/-9.40	-2.21/-3.63	-5.83/-5.37	-2.33/-0.36	0.18/-4.84	-0.57/-1.47	-0.96/-3.43	2.87/-0.34	-2.04/-1.91	4.04/-0.10	1.362/-69	-0.950/-0.7	-1.15/-3.03	-1.45/-0.37
Θ(82.5°)	-0.91/-8.81	1.26/-9.24	-5.30/-5.19	2.13/-1.83	1.600/78	-0.53/-1.96	-3.40/-1.75	-8.22/0.50	-3.69/-1.01	-1.78/-2.11	-4.75/-8.14	-3.37/-1.15	-4.59/-7.44	1.37/1.41	0.61/-0.00	1.800/82	2374.52	3.662/222	1.072/81	4.22/-0.05	1.732/63	2.140/23	-1.17/-3.66	-2.180/77
Θ(90°)	-1.50/-5.15	1.85/-6.62	2.38/-1.69	1.90/-4.45	-0.29/-3.03	-1.18/-0.52	-1.02/-2.25	-3.85/-1.21	-0.15/-1.28	-3.28/-0.54	-0.93/-3.65	-6.36/-1.27	0.38/-3.12	0.97/1.34	0.40/-1.62	4.03/-1.44	1.293/96	3.28/-1.17	1.872/-47	3.390/0.3	0.412/-10	1.43/-1.04	-1.14/-1.85	0.37/1.09
Θ(97.5°)	-4.86/-5.42	-0.17/-7.43	-5.64/-4.48	-0.78/-2.78	-0.83/-2.81	-1.64/-2.06	-0.14/-2.31	-3.383/07	0.912/29	1.89/-1.74	-3.07/-2.43	-0.36/0.62	1.12/-0.56	-0.902/50	1.32/-4.72	2.072/95	0.821/35	3.31/-0.17	1.451/57	3.310/107	0.062/36	-0.110/25	-2.03/-6.36	1.551/36
Θ(105°)	-5.00/-6.66	-2.21/-7.35	-8.37/-5.35	-1.69/-2.94	-4.31/-12.27	-6.05/-5.82	-5.44/-7.46	-9.57/-2.54	-4.62/-2.88	0.91/-0.93	-3.68/-6.86	-1.04/1.55	-1.63/-3.94	-1.390/82	0.54/-3.05	0.14/-0.56	1.262/81	2.01/-1.50	-3.78/-0.08	2.04/-2.79	-4.910/50	-2.22/-4.14	-4.92/-14.84	-1.84/-1.23
Θ(112.5°)	-4.94/-4.79	-4.16/-3.85	-8.53/-4.78	-5.74/-3.38	-3.51/-6.63	-4.88/-4.13	-4.79/-1.68	-2.36/-0.01	-0.38/-4.35	-3.660/48	-1.35/-9.54	-7.060/62	-2.37/-9.12	-0.070/09	0.43/-2.93	1.08/-2.82	-1.693/22	-6.38/-2.71	1.68/-3.34	-8.53/-5.52	-4.43/-7.88	-3.05/-8.52	-4.11/-10.8	
Θ(120°)	-4.39/-12.63	-8.84/-4.15	-9.09/-5.41	-8.09/-7.42	-10.67/-5.15	-10.67/-5.15	-6.71/-2.58	-3.08/-0.26	0.10/-2.68	-3.07/-1.20	-0.63/-2.72	-5.04/-6.47	-3.82/-4.38	-8.53/-1.07	-1.43/-6.51	-2.83/-2.31	-7.59/-0.51	-1.46/-3.80	-11.69/-13.06	-4.71/-7.18	-4.87/-4.23	-6.59/-12.91	-7.61/-2.89	
Θ(127.5°)	-6.40/-15.59	-7.52/-13.72	-15.39/-9.73	-10.22/-6.23	-9.97/-12.68	-7.32/-7.36	-8.22/-8.27	-9.98/-3.34	-0.04/-0.26	-1.67/-4.96	-1.09/-2.94	-4.14/-5.34	-1.40/-2.22	-5.37/-3.17	-2.28/-6.25	-12.02/-7.32	-10.39/-7.16	-9.50/-5.99	-15.31/-10.72	-2.83/-4.85	-14.51/-12.72	-7.86/-5.95	-6.42/-5.48	-8.18/-5.01
Θ(135°)	-15.29/-15.63	-15.47/-13.39	-15.91/-10.82	-10.94/-7.87	-11.91/-6.42	-5.62/-6.47	-5.80/-7.61	-8.91/-12.85	-5.62/-8.41	-4.19/-2.67	-7.61/-5.25	-5.63/-5.16	-12.57/-9.79	-9.34/-10.50	-15.09/-14.68	-9.06/-9.85	-9.91/-7.30	-3.49/-5.80	-11.85/-14.85	-10.19/-8.06	-12.79/-14.52	-4.79/-14.57	-16.10/-3.44	
Θ(142.5°)	-10.20/-9.70	-9.36/-10.24	-15.49/-11.08	-13.69/-15.46	-11.002/-7.27	-7.82/-14.15	-11.11/-11.18	-12.91/-12.43	-11.22/-11.76	-15.76/-11.03	-12.72/-10.38	-14.76/-11.12	-15.60/-10.08	-12.52/-10.26	-12.71/-14.53	-9.13/-8.23	-9.06/-9.51	-11.52/-15.61	-15.14/-10.87	-5.78/-5.80	-9.61/-9.95	-4.35/-7.90	-6.45/-7.37	-8.75/-11.39
Θ(150°)	-12.91/-14.57	-13.77/-15.10	-15.88/-14.58	-12.73/-11.83	-15.25/-14.63	-15.17/-13.42	-13.05/-11.89	-13.62/-12.93	-8.55/-8.78	-13.52/-13.91	-14.52/-13.26	-14.89/-12.55	-13.77/-9.74	-8.48/-7.61	-9.48/-11.24	-12.99/-12.59	-9.83/-7.75	-11.38/-15.60	-14.88/-12.36	-8.67/-10.91	-9.00/-7.60	-11.38/-10.82	-8.28/-11.16	-14.03/-13.22
Θ(157.5°)	-13.55/-13.22	-14.88/-15.80	-12.83/-12.77	-13.28/-11.89	-13.30/-13.44	-15.63/-14.39	-13.24/-12.22	-10.08/-8.44	-10.02/-13.44	-13.83/-11.64	-10.88/-12.00	-13.09/-12.02	-7.37/-6.37	-6.99/-7.47	-5.05/-4.61	-7.20/-9.54	-7.15/-5.42	-6.99/-12.73	-13.05/-9.84	-8.20/-7.77	-6.84/-8.66	-7.50/-10.18	-12.59/-11.00	-13.12/-15.07
Θ(165°)	-14.57/-12.41	-15.66/-16.24	-15.37/-15.87	-12.48/-9.63	-9.50/-9.43	-9.92/-12.21	-12.94/-9.98	-9.31/-8.93	-8.73/-8.84	-8.80/-9.76	-10.34/-13.03	-15.82/-12.61	-8.08/-6.12	-5.85/-7.66	-10.86/-13.97	-13.69/-10.76	-7.70/-6.64	-6.57/-7.63	-8.60/-11.57	-13.14/-11.52	-9.29/-8.04	-6.83/-8.93	-13.11/-14.98	-15.24/-15.10
Θ(172.5°)	-8.69/-9.81	-11.35/-12.05	-13.05/-14.92	-15.46/-13.40	-13.10/-12.97	-12.61/-11.74	-11.67/-12.77	-13.12/-12.81	-12.00/-10.35	-9.65/-9.33	-8.92/-10.09	-9.86/-9.62	-10.14/-10.35	-10.04/-9.97	-10.94/-14.44	-15.27/-15.34	-14.77/-13.24	-14.78/-13.81	-12.15/-11.13	-11.04/-14.03	-15.72/-14.90	-12.40/-9.99	-8.37/-8.19	
Θ(180°)	-15.62/-15.60	-15.11/-14.03	-13.67/-14.87	-15.21/-14.69	-14.83/-14.48	-15.83/-14.65	-15.40/-15.47	-15.08/-14.53	-15.20/-14.00	-14.70/-14.13	-13.47/-13.91	-14.70/-15.15	-16.08/-15.41	-15.64/-15.59	-15.04/-15.50	-15.80/-15.36	-15.53/-15.08	-15.46/-16.24	-15.17/-15.36	-15.35/-15.86	-16.32/-15.66	-15.51/-15.42	-16.13/-15.67	-15.79/-15.22
Freq(Hz)	5.785G/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°)	-14.45/-14.65	-14.26/-14.05	-13.48/-13.71	-14.91/-15.79	-14.77/-13.19	-12.06/-12.56	-14.03/-13.57	-12.44/-11.90	-11.28/-10.53	-10.69/-10.43	-10.55/-10.05	-10.38/-9.97	-9.82/-10.04	-11.07/-11.28	-10.79/-9.55	-9.43/-10.09	-10.58/-10.38	-10.20/-10.32	-10.43/-11.30	-10.90/-11.93	-12.01/-12.22	-12.30/-12.38	-13.14/-13.55	-15.05/-15.01
Θ(7.5°)	-8.50/-9.19	-11.24/-11.72	-13.66/-14.57	-13.93/-13.09	-13.43/-15.21	-15.07/-14.74	-14.87/-15.04	-14.05/-15.80	-15.49/-15.22	-14.60/-14.92	-15.43/-14.90	-15.37/-15.24	-13.53/-13.86	-12.62/-11.86	-10.92/-10.38	-12.32/-11.86	-10.82/-10.83	-11.54/-11.75	-11.38/-11.21	-11.79/-12.81	-11.61/-12.11	-11.77/-14.02	-9.48/-8.06	-7.50/-7.69
Θ(15°)	-6.89/-9.22	-6.84/-7.81	-7.44/-7.26	-6.64/-9.98	-11.18/-11.92	-13.44/-13.12	-14.43/-14.41	-16.00/-15.21	-15.69/-15.90	-15.18/-15.35	-16.43/-13.58	-12.43/-12.31	-11.93/-12.31	-12.77/-11.26	-10.06/-10.49	-10.97/-10.34	-10.10/-10.43	-10.21/-8.78	-8.88/-9.95	-12.13/-12.83	-13.33/-12.39	-10.16/-7.91	-6.81/-7.40	
Θ(22.5°)	-3.96/-8.78	-10.32/-11.46	-14.15/-13.72	-12.36/-10.42	-8.58/-6.93	-6.36/-6.64	-7.76/-10.15	-12.45/-14.05	-14.19/-14.96	-15.23/-15.04	-15.77/-15.51	-12.42/-10.90	-10.87/-12.12	-11.71/-10.26	-8.68/-9.64	-9.07/-7.84	-6.83/-8.01	-7.31/-7.57	-5.61/-6.45	-7.44/-7.24	-6.51/-6.34	-6.43/-5.87	-6.90/-8.95	-9.97/-8.83
Θ(30°)	-9.83/-7.90	-8.18/-10.53	-11.87/-11.44	-11.03/-9.06	-7.25/-8.11	-10.55/-15.09	-14.60/-11.30	-10.91/-11.19	-10.82/-11.53	-10.30/-9.10	-9.23/-8.87	-13.09/-12.53	-10.00/-8.92	-7.45/-8.18	-8.96/-8.13	-5.11/-4.51	-6.30/-8.75	-6.83/-6.26	-7.63/-6.92	-6.21/-6.45	-5.89/-4.63	-5.39/-6.49	-7.29/-7.47	-7.22/-7.91
Θ(37.5°)	-6.64/-10.40	-10.55/-8.00	-6.95/-8.24	-8.28/-8.37	-11.45/-10.41	-7.21/-4.92	-5.48/-7.16	-6.40/-6.55	-7.59/-7.88	-6.73/-7.56	-9.19/-8.17	-5.89/-6.65	-7.87/-8.88	-10.11/-9.19	-6.24/-7.09	-7.38/-4.47	-5.47/-8.36	-8.53/-7.17	-10.18/-10.06	-5.20/-6.69	-11.61/-9.19	-8.95/-5.84	-6.14/-4.65	-7.47/-10.82
Θ(45°)	-7.31/-4.74	-2.78/-6.12	-5.04/-1.48	-0.86/-0.75	0.53/1.06	-0.42/-3.61	-5.62/-4.32	-3.91/-3.58	-2.29/-7.56	-8.75/-12.10	-7.78/-8.29	-5.48/-5.80	-10.44/-12.39	-6.93/-9.40	-7.33/-11.20	-1.175/-9.69	-8.72/-9.90	-10.91/-10.71	-5.39/-7.21	-13.23/-13.94	-11.07/-7.08	-6.89/-4.92	-5.07/-6.13	-7.69/-15.7
Θ(52.5°)	-7.24/-4.24	-3.50/-7.40	-4.30/-3.14	-4.37/-3.04	-2.21/-1.97	0.280/97	-0.40/-1.94	-2.05/-2.13	-1.65/-0.58	-4.58/-11.74	-7.15/-7.89	-7.01/-5.48	-4.90/-4.34	-4.89/-5.78	-8.04/-7.70	-8.12/-4.29	-7.09/-7.14	-5.16/-8.06	-10.10/-9.40	-7.58/-7.89	-9.90/-6.82	-8.37/-3.54	-5.29/-3.74	-5.32/-6.61
Θ(60°)	-6.88/-6.84	-6.97/-10.39	-9.21/-6.38	-6.36/-9.01	-6.04/-5.42	-10.33/-12.57	-9.73/-13.49	-10.76/-6.13	-6.36/-6.14	-5.94/-6.90	-5.87/-5.42	-7.56/-5.68	-8.36/-6.64	-5.51/-7.41	-6.93/-5.50	-4.50/-4.47	-7.16/-4.92	-2.22/-4.96	-3.24/-1.21	-2.20/-6.72	-6.18/-3.14	-9.		

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







Appendix B.4

Total Gain Data

Sporton International Inc. Hsinchu Laboratory

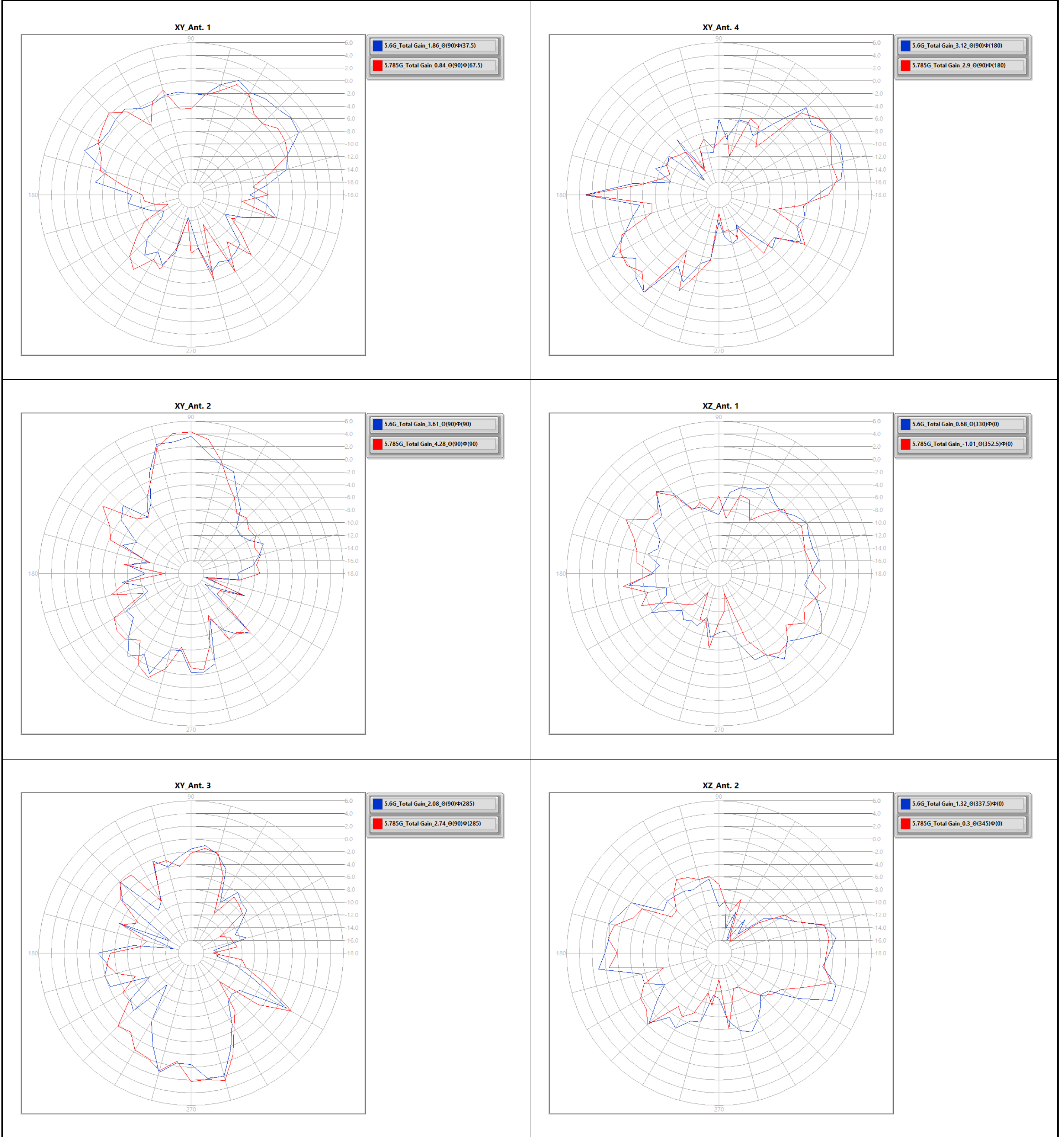


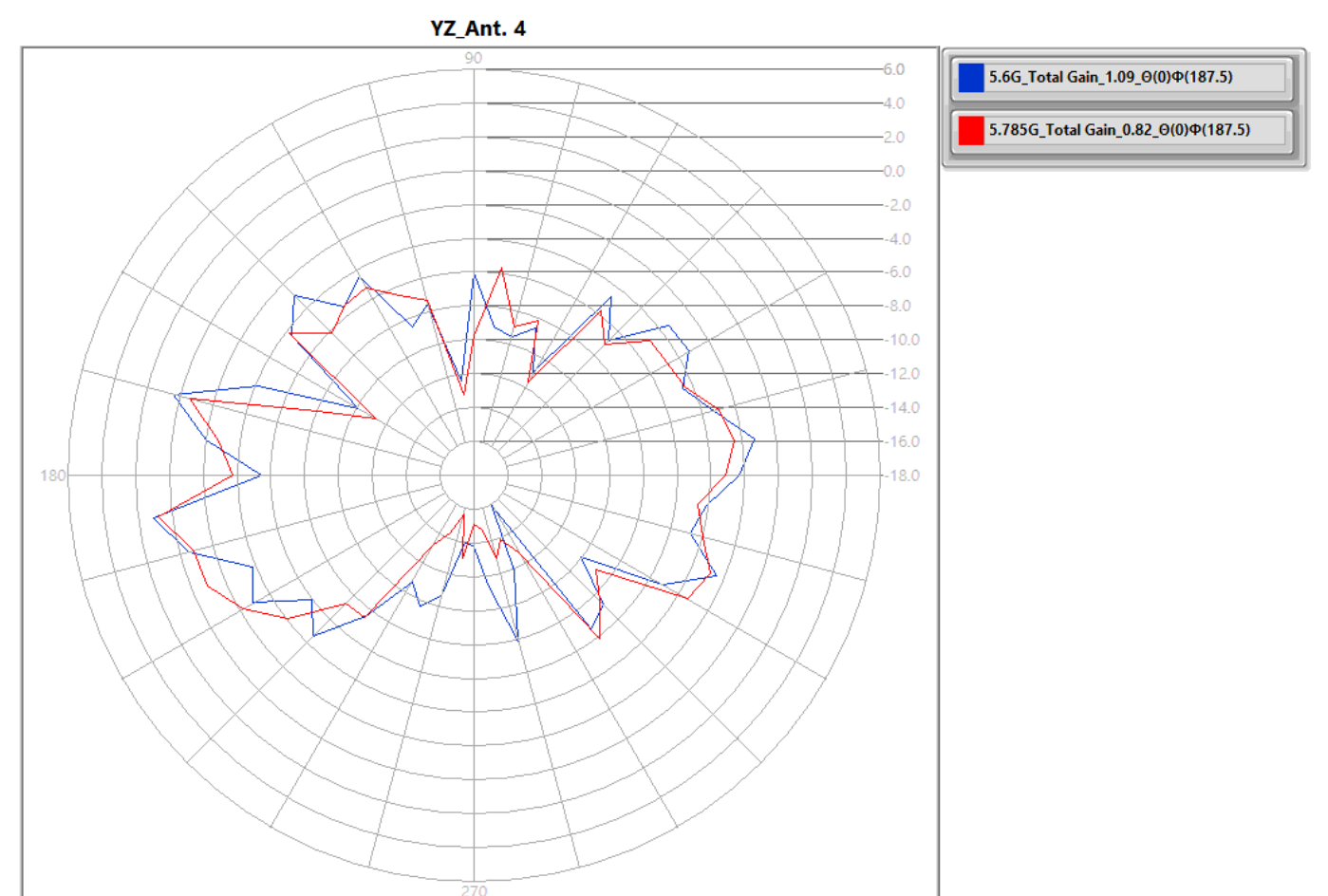
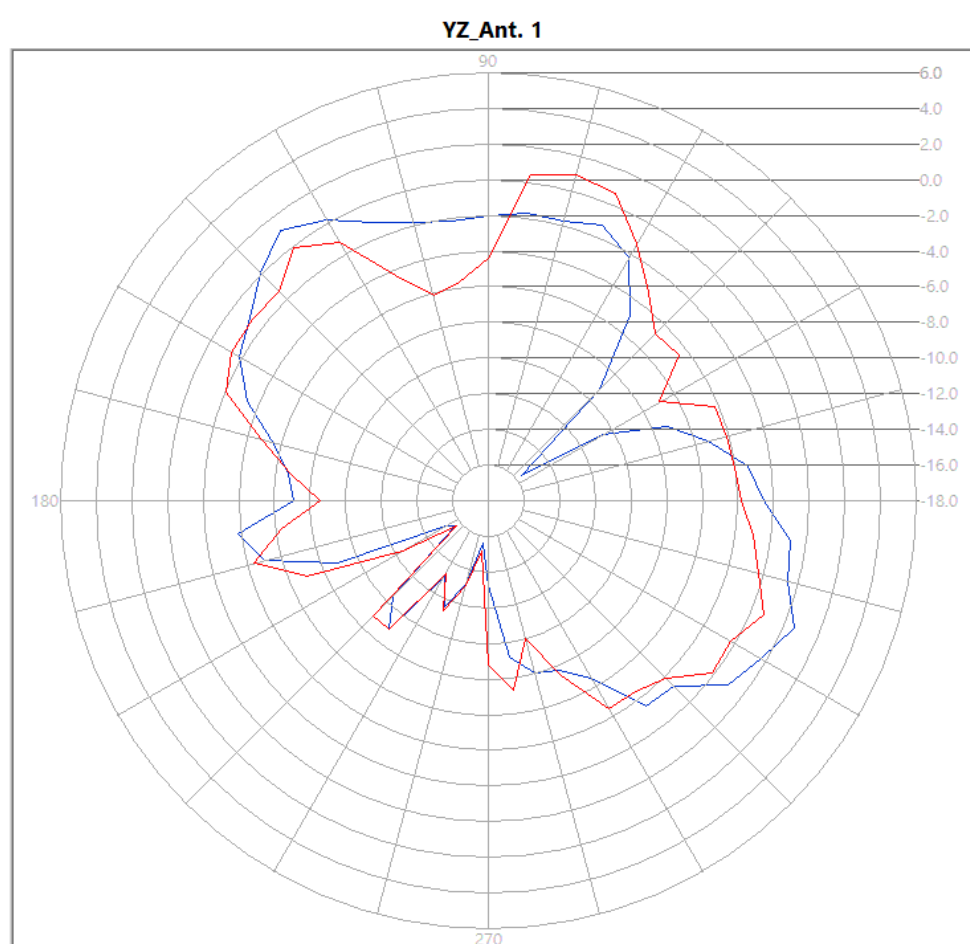
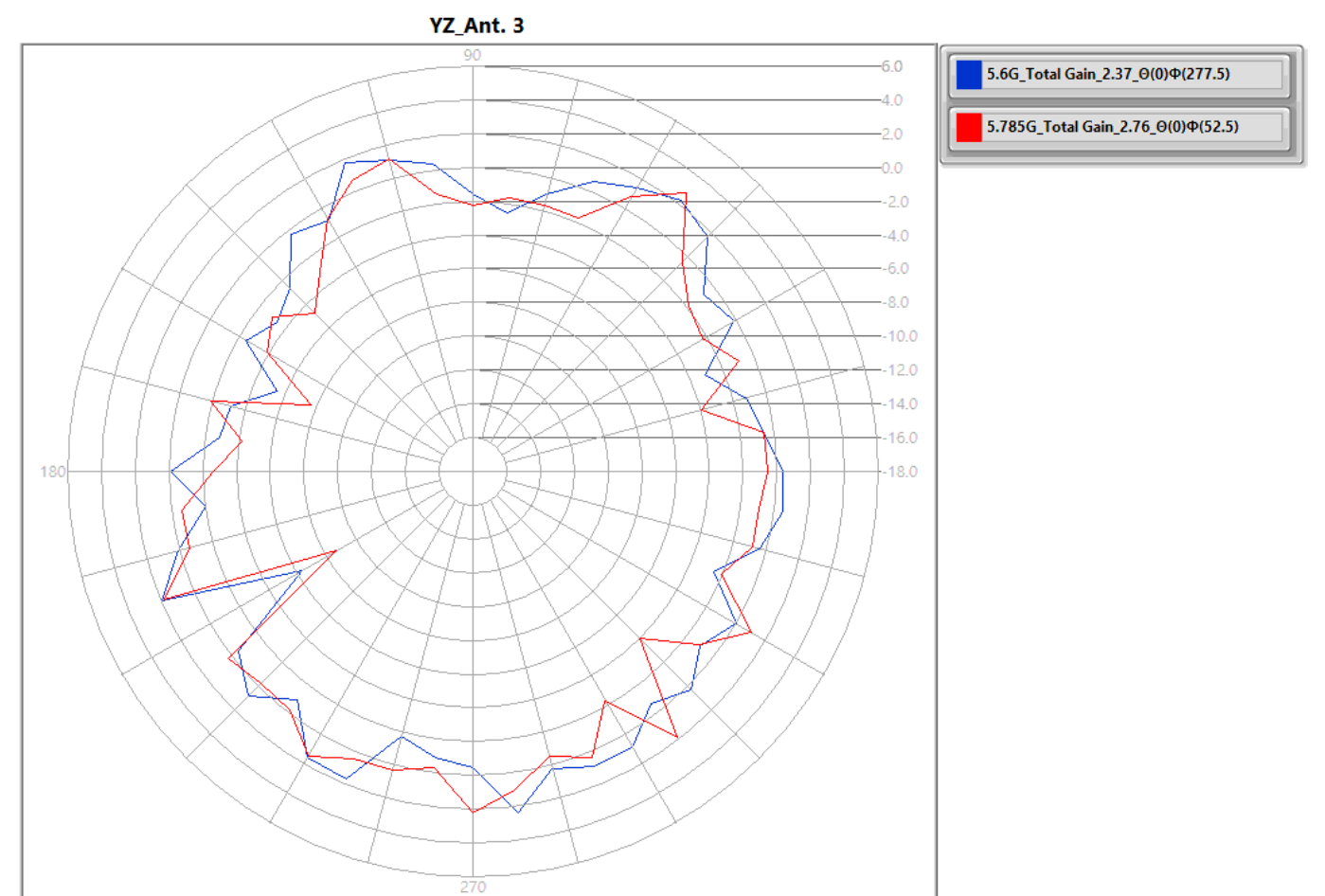
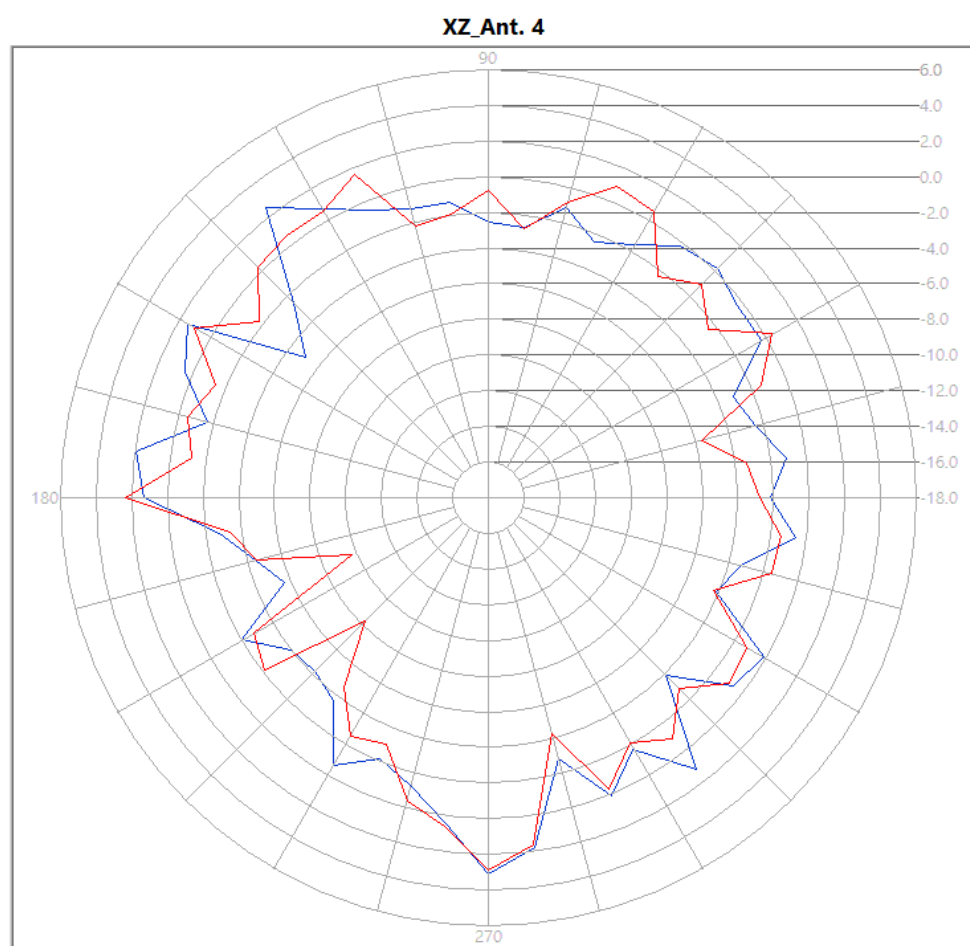
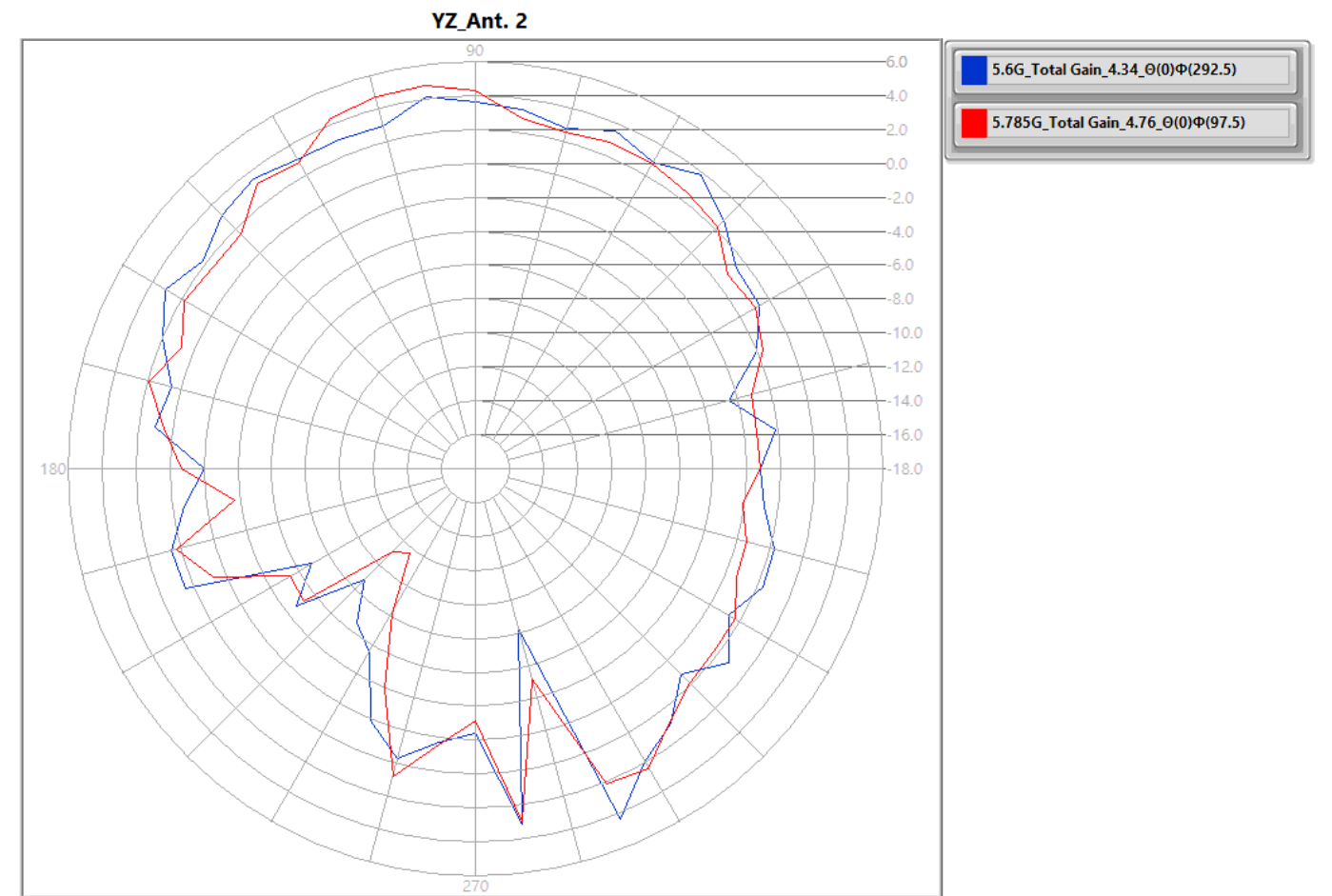
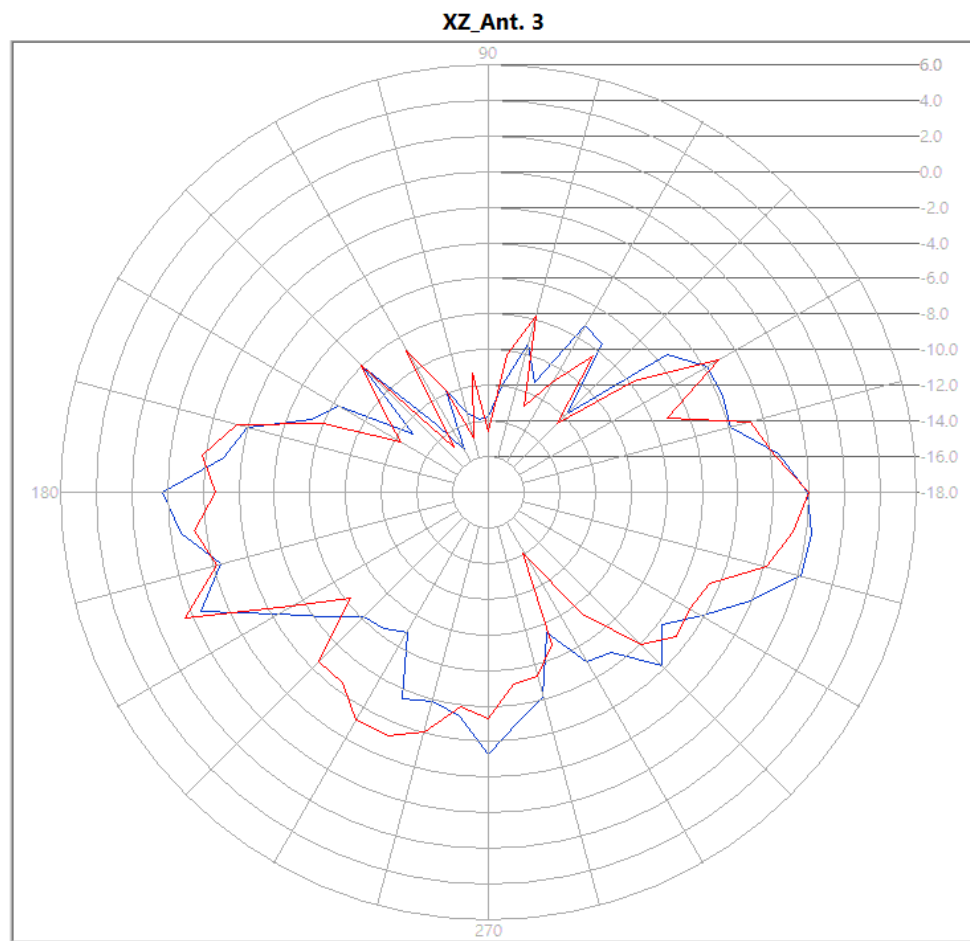
Antenna Pattern

Appendix B.4

Θ(75°)	-1.61/-2.71	-2.53/-2.46	-2.44/-2.84	-2.48/-1.58	-1.58/-1.42	-1.12/-0.42	-0.61/-0.07	-0.23/-0.26	0.05/-0.40	0.42/-0.11	0.23/-0.03	0.82/-0.07	0.26/-0.72	-0.00/-0.62	-0.15/-0.09	0.44/-1.16	0.94/-0.39	1.01/-0.39	0.48/-1.76	2.08/-1.88	2.11/-1.24	-0.32/-0.28	0.39/-0.15	-0.50/-0.81
Θ(15°)	-3.94/-6.01	-5.58/-5.46	-4.68/-4.84	-3.53/-2.45	-1.83/-1.18	-0.84/-0.83	-1.25/-1.63	-2.28/-2.04	-1.08/-0.30	-0.28/-0.21	-0.13/-0.49	0.19/-0.70	0.19/-0.36	-0.36/-0.74	-0.41/-0.46	-0.62/-0.20	-0.74/-1.84	-0.81/-0.22	-0.35/-1.12	0.84/-0.20	-0.95/-1.32	-1.55/-0.60	0.08/-0.50	-0.21/-2.94
Θ(22.5°)	-13.72/-4.95	-8.37/-5.77	-4.19/-2.66	-2.96/-2.60	-4.09/-4.46	-4.15/-4.42	-3.12/-2.73	-2.63/-2.72	-1.82/-1.08	-1.34/-2.02	-2.95/-2.62	-1.96/-2.17	-2.08/-3.49	-1.32/-1.17	-1.96/-0.98	-1.12/-0.28	0.94/-1.22	-1.58/-2.22	-2.56/-1.48	-0.66/-2.43	-2.90/-2.53	-4.19/-5.24	-2.97/-2.06	-0.49/-1.61
Θ(30°)	-3.86/-5.66	-5.73/-3.63	-3.00/-2.47	-3.02/-4.26	-2.54/-1.12	0.28/-0.86	-0.18/-1.14	-1.59/-1.12	-0.78/-0.68	-1.00/-0.83	-3.01/-3.53	-5.34/-5.95	-4.11/-3.93	-5.59/-3.78	-1.36/-0.79	-0.92/-1.87	2.33/-1.21	1.71/-0.23	0.01/-0.95	-0.56/-2.11	-2.20/-5.53	-8.68/-10.75	-6.67/-5.32	-2.98/-2.12
Θ(37.5°)	-5.32/-7.32	-5.09/-5.32	-6.24/-5.64	-3.97/-1.90	-0.37/-1.14	0.91/-0.49	-0.74/-2.67	-3.48/-4.28	-2.81/-2.45	-3.31/-2.80	-4.54/-5.95	-8.62/-6.56	-5.77/-5.45	-6.57/-4.42	-2.17/-0.91	-0.39/-1.04	1.30/-0.93	0.21/-0.54	-1.03/-0.79	0.49/-0.50	-4.68/-9.37	-11.77/-14.02	-10.36/-8.89	-4.70/-6.37
Θ(45°)	-11.75/-4.82	-4.45/-4.15	-8.35/-12.97	-3.70/-1.50	-1.02/-0.96	1.13/-1.91	1.70/-1.32	-3.43/-5.46	-6.21/-4.11	-6.65/-5.89	-4.30/-4.49	-9.26/-7.86	-4.21/-5.41	-3.62/-3.30	-3.78/-2.28	-3.39/-5.37	-2.34/-4.51	-1.59/-1.96	0.24/-0.02	2.26/-0.14	0.76/-0.11	-3.27/-11.89	-9.42/-10.94	-7.41/-10.23
Θ(52.5°)	-7.52/-8.56	-8.50/-6.57	-10.06/-12.34	-5.92/-7.31	-3.92/-0.34	2.52/-2.84	2.26/-0.97	-2.23/-6.56	-9.41/-6.41	-6.62/-6.28	-3.89/-4.49	-8.60/-6.07	-6.70/-7.39	-4.96/-7.31	-4.58/-3.48	-3.57/-4.96	-0.48/-2.29	1.28/-0.79	-0.71/-0.89	-3.35/-0.17	-1.80/-4.25	-9.49/-10.97	-8.16/-15.35	-10.34/-12.58
Θ(60°)	-7.19/-14.97	-8.19/-7.30	-8.01/-13.41	-10.58/-5.20	-3.40/-1.05	0.92/-2.71	1.43/-1.03	-3.01/-7.64	-6.70/-10.09	-8.28/-6.56	-5.13/-4.79	-5.54/-4.98	-6.99/-8.70	-12.81/-5.59	-3.98/-6.09	-3.66/-0.12	0.57/-1.16	-0.80/-0.75	0.90/-4.26	1.45/-0.07	-3.30/-6.52	-9.04/-11.06	-11.62/-6.50	-14.66/-15.59
Θ(67.5°)	-11.29/-15.72	-11.38/-6.50	-5.67/-15.87	-10.31/-6.27	-10.10/-5.48	0.13/-1.59	0.60/-1.79	-3.90/-10.10	-4.41/-5.47	-9.95/-5.14	-7.01/-5.56	-5.81/-8.48	-9.47/-13.85	-9.04/-3.21	-7.93/-5.82	-1.77/-2.99	0.79/-2.17	1.47/-0.40	0.90/-0.63	0.17/-3.17	-3.60/-4.66	-10.30/-14.80	-9.56/-12.09	-11.78/-11.13
Θ(75°)	-9.40/-6.80	-11.80/-8.42	9.00/-15.32	-9.57/-14.94	-10.85/-3.67	-0.45/-0.09	-1.02/-2.03	-4.27/-8.48	-6.62/-4.31	-6.43/-3.51	-10.03/-7.42	-7.19/-10.89	-6.11/-9.46	-6.47/-3.62	-7.97/-5.96	-5.26/-2.83	1.11/-2.39	2.38/-0.77	0.21/-3.55	2.35/-0.25	-7.85/-6.73	-6.11/-7.57	-6.69/-7.88	-6.35/-8.47
Θ(82.5°)	-12.04/-12.48	-10.28/-7.87	-10.61/-13.52	-8.40/-10.43	-6.29/-0.47	-0.56/-0.08	-2.58/-2.83	-5.30/-4.26	-11.08/-4.64	-3.67/-3.70	-11.33/-5.95	-12.60/-8.99	-5.05/-7.25	-4.39/-5.91	-10.54/-4.39	-5.34/-4.24	-2.41/-1.87	0.47/-2.03	2.37/-1.67	3.68/-6.63	-5.68/-5.55	-11.85/-7.37	-3.96/-11.32	-12.30/-10.52
Θ(90°)	-13.73/-14.38	-8.90/-10.45	-9.11/-6.93	-6.80/-5.91	-8.81/-3.67	-1.84/-0.93	-1.56/-2.76	-3.93/-2.35	-5.88/-9.52	-2.11/-4.46	-14.30/-5.64	-15.11/-8.88	-3.28/-4.72	-3.94/-4.24	-10.50/-5.92	-5.15/-11.73	-5.56/-2.21	1.49/-0.54	-0.47/-1.84	2.08/-1.71	-5.13/-4.80	-8.83/-8.36	-7.07/-7.21	-10.66/-13.84
Θ(97.5°)	-13.86/-10.33	-10.75/-8.50	-6.01/-4.63	-7.25/-5.01	-5.52/-5.94	-4.02/-0.01	0.34/-3.08	-0.83/-1.11	-8.03/-10.64	-4.70/-3.90	-11.35/-4.70	-16.04/-9.77	-5.37/-6.47	-4.36/-3.27	-7.77/-5.51	-8.07/-9.52	-10.80/-1.37	2.17/-0.34	-0.94/-1.39	1.61/-1.12	-8.03/-3.28	-12.80/-8.41	-2.13/-6.05	-9.10/-9.86
Θ(105°)	-13.41/-13.22	-10.02/-9.42	-6.20/-4.50	-4.77/-6.82	-6.36/-4.68	-1.49/-0.40	-2.14/-1.72	-1.06/-0.80	-5.58/-6.39	-5.16/-4.93	-7.97/-4.64	-15.38/-9.73	-5.81/-5.70	-5.22/-5.74	-12.29/-6.13	-2.33/-8.76	-0.89/-1.31	3.43/-2.06	0.69/-1.34	-6.49/-12.92	-3.50/-9.99	-15.46/-10.77		
Θ(112.5°)	-11.79/-8.22	-9.71/-10.40	-9.96/-12.67	-9.61/-10.76	-6.45/-6.61	-1.64/-0.85	1.82/-1.20	-0.93/-2.01	-5.36/-4.26	-5.71/-6.72	-4.37/-3.04	-15.03/-7.92	-5.45/-4.95	-5.77/-3.90	-5.92/-3.04	-11.06/-0.65	-2.05/-1.94	1.12/-2.15	0.55/-3.66	-2.51/-6.41	-3.79/-9.48	-6.00/-6.74	-8.79/-11.96	
Θ(120°)	-15.28/-7.90	-8.01/-12.67	-7.98/-7.50	-5.77/-3.76	-1.43/-3.38	-3.01/-2.90	-0.88/-2.73	-2.81/-0.41	-4.75/-4.91	-5.85/-6.59	-4.43/-4.91	-12.58/-5.25	-8.87/-6.62	-6.20/-6.31	-8.14/-3.87	-3.18/-3.97	3.10/-0.12	0.73/-0.16	1.59/-1.17	2.60/-0.62	-2.31/-2.57	-5.84/-8.35	-6.40/-2.55	-5.41/-11.50
Θ(127.5°)	-13.22/-6.24	-10.55/-11.50	-13.69/-5.27	-1.23/-2.47	2.15/-0.40	-3.52/-1.42	-0.31/-3.64	-1.91/-1.36	-2.34/-4.37	-5.22/-5.30	-4.23/-5.64	-11.58/-8.06	-8.32/-4.74	-7.78/-6.95	-9.01/-9.36	-5.40/-2.76	0.87/-2.75	0.11/-1.62	-0.91/-1.58	-0.83/-2.02	-0.85/-2.78	-10.41/-13.60	-9.51/-6.01	
Θ(135°)	-8.05/-2.54	-8.81/-6.03	-8.81/-3.36	-0.08/-4.43	1.16/-0.92	-0.73/-0.03	-2.67/-3.99	-4.47/-0.42	-1.81/-6.48	-3.98/-3.58	-4.61/-7.59	-15.97/-8.43	-8.08/-6.80	-10.52/-12.30	-11.42/-11.28	-5.27/-1.08	1.60/-1.36	1.26/-0.98	0.85/-0.94	-2.13/-1.14	1.60/-3.20	-7.01/-9.21	-15.36/-8.96	-8.10/-6.92
Θ(142.5°)	-12.62/-7.83	-5.51/-5.21	-6.35/-4.44	-2.54/-0.21	-0.38/-1.77	-2.81/-2.73	-3.43/-1.72	-1.59/-0.64	-1.52/-4.60	-4.59/-4.22	-2.56/-3.96	-3.92/-4.40	-6.49/-5.97	-10.46/-10.43	-4.14/-4.51	-3.18/-0.25	0.82/-1.02	-1.79/-0.01	-0.51/-5.52	2.35/-2.24	0.45/-4.56	-9.09/-10.05	-7.44/-3.83	-6.29/-9.76
Θ(150°)	-8.31/-8.08	-1.46/-8.08	-2.80/-9.02	0.23/-0.08	0.91/-0.98	0.84/-0.97	-2.48/-4.18	-3.03/-4.29	-2.78/-3.23	-3.38/-2.15	-3.53/-5.08	-3.99/-4.79	-4.40/-2.75	-3.57/-1.88	-3.33/-2.05	0.32/-1.31	-0.02/-1.21	-0.43/-1.71	-6.32/-1.71	0.94/-1.06	-3.94/-4.04	-5.23/-3.06	-2.84/-5.96	-9.78/-10.00
Θ(157.5°)	-7.33/-7.12	-4.39/-5.43	-5.43/-4.79	-3.47/-1.79	-1.68/-2.12	-2.40/-3.32	-5.48/-7.64	-6.58/-1.53	-0.36/-0.37	-1.51/-2.15	-4.15/-4.11	-1.96/-1.85	-0.56/-0.12	-0.89/-1.50	-2.38/-1.72	-0.22/-0.14	-3.09/-0.27	-0.98/-3.18	1.98/-1.24	-2.48/-6.42	-4.69/-2.28	-1.09/-0.61	-1.94/-4.30	-9.23/-10.42
Θ(165°)	-3.97/-4.03	-4.16/-3.46	-4.39/-5.66	-5.72/-5.97	-5.27/-5.54	-5.59/-4.69	-3.12/-4.24	-1.16/-0.60	-0.89/-1.36	-2.01/-1.71	-2.55/-3.88	-3.91/-2.96	-4.29/-1.79	-0.88/-1.64	-2.37/-3.55	-4.21/-0.79	1.00/-1.07	-2.00/-0.94	0.10/-1.44	-5.12/-6.36	-1.37/-0.01	-1.10/-3.67	-5.66/-3.52	-3.66/-3.31
Θ(172.5°)	-3.03/-4.94	-3.67/-4.26	-4.05/-4.02	-3.48/-3.87	-3.88/-3.74	-3.21/-2.97	-2.88/-3.38	-3.54/-4.65	-4.74/-3.67	-3.31/-2.08	-1.77/-1.06	-1.03/-1.40	-0.59/-0.61	-0.69/-0.81	-0.25/-0.34	1.43/-0.58	-1.85/-1.44	0.18/-0.44	-2.02/-5.61	-7.97/-3.51	-1.43/-2.05	-5.08/-4.65	-0.44/-0.54	-0.37/-1.46
Θ(180°)	0.29/-0.15	-0.00/-0.03	-0.51/-0.24	-0.22/-0.13	-0.45/-0.25	-0.04/-0.15	-0.09/-0.18	-0.50/-0.91	-0.84/-0.78	-1.20/-1.16	-0.48/-0.90	-1.18/-0.54	-0.79/-0.69	-1.41/-0.66	-0.58/-1.08	-1.24/-0.46	0.09/-0.08	-0.12/-0.65	-4.04/-8.50	-3.98/-2.79	-7.07/-8.56	-2.68/-6.02	1.21/-0.08	-0.17/-0.22
Freq(Hz)	5.785GPol.	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°)	-0.01/-0.63	0.32/-0.36	0.23/-0.23	-0.14/-0.14	-0.22/-0.52	-0.58/-0.30	-0.51/-0.59	-0.73/-0.50	-0.74/-0.83	-0.77/-1.04	-1.09/-0.56	-0.38/-0.78	-0.56/-0.17	-0.55/-0.11	-0.06/-0.21	0.34/-0.59	0.45/-0.00	0.14/-0.09	-0.12/-0.40	-0.24/-0.34	-0.56/-1.43	0.17/-1.23	0.28/-0.43	-0.00/-0.04
Θ(7.5°)	-1.78/-1.04	-1.27/-1.32	-1.31/-1.07	-1.00/-0.99	-1.06/-0.88	-0.59/-0.73	-0.50/-0.61	-0.14/-0.15	-0.29/-0.27	-0.23/-0.58	-0.51/-0.44	0.03/-0.64	-0.73/-0.63	-0.76/-0.34	-0.61/-1.23	-0.95/-0.81	-0.83/-0.02	-0.53/-0.20	-0.93/-1.46	-0.77/-0.53	-0.86/-1.94	-1.49/-0.57	-1.06/-0.15	-0.62/-0.23
Θ(15°)	-2.74/-3.61	-4.55/-5.09	-4.54/-0.02	-3.37/-2.68	-2.64/-2.68	-2.39/-3.39	-3.97/-3.88	-2.41/-1.50	-0.99/-0.78	-1.55/-1.45	-0.94/-0.46	-1.82/-2.73	-3.38/-3.17	-1.36/-1.22	-0.64/-0.33	0.25/-0.08	-1.09/-0.30	-0.87/-1.30	-0.10/-0.12	-0.93/-2.04	-3.01/-2.41	-3.08/-2.05	-2.46/-1.81	
Θ(22.5°)	-7.13/-4.72	-6.68/-3.95	-4.75/-5.31	-5.46/-6.03	-4.90/-4.39	-2.42/-1.73	-0.99/-1.09	-2.56/-1.60	-0.89/-1.44	-2.11/-2.23	-2.86/-3.41	-4.55/-3.67	-5.32/-5.89	-4.21/-2.34	-0.99/-1.38	-0.84/-0.66	-1.70/-0.65	-2.11/-3.85	-4.28/-3.92	-5.42/-5.68	-5.12/-5.26	-5.55/-2.46	-1.71/-1.79	
Θ(30°)	-3.07/-6.05	-4.99/-4.90	-3.64/-3.42	-4.93/-3.56	-1.62/-0.99	-0.12/-0.47	-2.28/-2.47	-1.55/-1.64	-1.62/-3.15	-1.73/-2.31	-4.10/-4.87	-6.86/-4.55	-4.99/-5.60	-6.74/-7.01	-0.97/-0.26	-0.79/-0.84	0.86/-1.87	1.07/-0.32	0.71/-1.74	-2.90/-5.30	-7.95/-10.64	-8.91/-5.79	-5.27/-2.92	
Θ(37.5°)	-1.70/-8.10	-5.06/-4.24	-9.78/-9.31	-7.09/-3.26	-1.22/-0.77	-1.18/-2.35	-1.90/-3.25	-5.97/-4.17	-1.55/-3.48	-4.21/-5.88	-4.54/-5.69	-6.05/-7.80	-4.74/-5.06	-9.17/-3.98	-2.70/-3.06	0.23/-0.69	-2.62/-0.29	0.08/-0.50	-1.11/-1.28	-0.78/-1.11	-2.16/-5.98	-9.85/-14.46	-10.54/-7.02	-7.15/-6.51
Θ(45°)	-12.50/-6.95	-3.66/-4.85	-9.81/-9.97	-3.53/-2.30	-2.05/-1.61	0.42/-1.23	-0.41/-1.52	-3.12/-6.20	-5.17/-6.43	-4.09/-6.11	-3.25/-8.00	-8.31/-6.53	-5.96/-7.50	-4.73/-4.45	-3.73/-2.61	-0.45/-2.46	-3.11/-2.90	-3.97/-2.46	-4.01/-0.09	-0.42/-0.00	-0.63/-1.72	-5.37/-7.66	-12.07/-12.70	-9.68/-9.34
Θ(52.5°)	-8.38/-8.98	-10.96/-6.91	-7.97/-13.36	-6.72/-7.10	-4.21/-0.68	1.17/-1.98	0.24/-0.49	-3.53/-6.32	-9.34/-6.04	-4.66/-3.00	-3.49/-4.98	-8.61/-8.79	-9.36/-5.42	-5.62/-7.43	-5.93/-5.40	-1.22/-0.04	-1.40/-0.50	-0.18/-1.12	1.85/-1.32	0.52/-3.10	-3.95/-3.75	-7.62/-10.51	-10.73/-12.67	-13.56/-10.14
Θ(60°)	-10.87/-11.58	-12.17/-5.96	-6.19/-14.68	-13.45/-8.11	-5.65/-1.85	1.16/-1.57	0.75/-0.02	-3.30/-7.52	-9.03/-7.77	-7.01/-3.63	-2.26/-4.45	-5.71/-8.35	-14.07/-6.37	-5.74/-3.97	-5.80/-5.48	-3.10/-1.57	0.06/-0.10	1.21/-2.45	-2.34/-0.41	-0.93/-1.08	-6.24/-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 $\Theta(0-180)\Phi(270)$







Antenna Pattern

Appendix B.5

Mode 5
Total Gain Data

Freq(Hz)	6.175G/Pol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-0.57/-0.44	0.12/0.09	-0.19/-0.44	-0.52/-0.81	-0.36/-0.76	-1.14/-0.51	0.05/-0.41	-0.85/-1.04	-0.59/-0.16	-0.03/0.35	-0.27/-0.45	0.23/-0.19	0.70/0.39	0.21/0.17	-0.12/0.08	0.04/-0.43	-0.20/-0.17	-0.32/-0.50	-0.26/-0.27	-0.50/-0.63	-0.41/-0.23	-0.02/-0.25	-0.18/-0.36	-0.40/-0.21
Θ(7.5°)	-0.65/-0.82	-0.80/-0.61	-0.44/-0.55	-0.76/-1.09	-1.68/-0.60	-1.81/-2.38	-1.41/-1.11	-1.72/-1.89	-1.39/-1.07	-0.56/-0.06	0.23/0.29	0.74/0.86	0.78/0.93	0.16/0.59	0.47/0.58	0.38/0.66	0.42/0.21	-0.42/-0.36	-0.15/-0.42	-0.47/-0.42	-0.48/-0.36	-0.51/-0.44	-0.27/-0.45	-0.80/-0.64
Θ(15°)	-1.41/-2.13	-3.34/-4.23	-4.32/-3.90	-4.57/-3.74	-2.18/-2.46	-2.54/-2.72	-2.96/-1.73	-1.44/-1.26	-1.06/-0.80	-0.65/-0.50	0.40/0.58	0.46/0.41	0.75/0.97	1.26/1.22	0.79/0.13	-0.96/-1.03	-0.82/0.19	0.77/0.57	0.92/1.03	1.68/1.80	1.80/1.38	0.70/0.08	-0.52/-0.66	-0.79/-1.28
Θ(22.5°)	-2.83/-4.75	-6.88/-8.07	-5.50/-3.41	-2.34/-2.03	-2.48/-1.06	-0.59/-0.66	0.35/-0.22	-0.99/-1.06	-1.49/-1.68	-0.73/-0.45	0.65/-1.45	1.14/-1.18	1.32/-1.24	0.97/-0.59	-2.48/-3.34	-3.88/-3.61	-3.68/-2.35	-1.81/-1.65	-0.81/-0.16	0.91/-1.77	2.60/2.56	1.95/-1.11	0.35/0.29	-0.13/-1.61
Θ(30°)	-5.47/-5.96	-6.51/-10.66	-6.14/-2.98	-0.88/-0.57	-1.75/-1.34	0.01/-1.13	1.73/-0.14	-0.70/-0.12	0.18/-0.22	0.47/-1.17	0.96/0.77	-0.31/-0.45	-0.24/0.81	-0.22/-0.88	-1.76/-3.02	-2.18/-1.26	-1.69/-2.47	-3.37/-2.91	-2.26/-3.09	-3.47/-2.36	-0.43/-1.01	1.29/0.64	0.54/0.09	-1.57/-3.96
Θ(37.5°)	-8.88/-8.15	-9.97/-11.76	-7.55/-1.44	0.16/-1.29	1.38/-1.93	-1.21/-1.17	-2.63/-4.23	-2.58/-1.64	-1.13/-0.91	-1.34/-0.13	-0.96/-0.73	-0.45/-0.11	0.38/0.83	0.76/-0.04	-1.22/-1.55	-1.65/-2.76	-3.36/-2.57	-2.91/-3.72	-2.55/-2.54	-1.40/-2.00	-0.78/-0.16	0.13/0.08	0.54/0.43	-0.74/-4.07
Θ(45°)	-17.70/-9.29	-7.19/-7.12	-3.93/0.14	0.40/0.56	1.15/0.21	-1.24/-1.01	-2.77/-2.49	-3.09/-4.06	-1.71/-1.32	-0.51/-1.00	0.39/0.23	-1.46/-2.64	-1.48/-1.30	-0.89/-0.84	-0.93/-1.66	-2.07/-4.34	-6.61/-9.60	-7.20/-5.59	-4.98/-1.28	0.16/0.12	0.75/0.43	0.02/-0.14	0.13/0.26	-0.72/-5.54
Θ(52.5°)	-6.91/-6.42	-5.98/-5.48	-2.10/-1.26	-0.08/-0.23	-1.59/-2.57	-2.56/-2.29	-2.12/-2.19	-2.58/-1.54	0.06/0.40	0.03/-0.27	-1.31/-1.16	-2.80/-4.17	-2.58/-1.47	-1.18/-2.84	-3.47/-3.13	-3.45/-4.56	-6.43/-12.21	-13.60/-10.68	-6.31/-3.32	-0.28/0.98	0.71/0.52	0.05/-0.79	-1.91/-1.35	-3.05/-4.69
Θ(60°)	-5.70/-3.33	-3.02/-3.40	-0.07/-1.99	-0.35/-1.27	-5.08/-2.91	-3.73/-4.79	-4.46/-4.28	-4.03/-2.10	-1.06/-1.08	-1.33/-1.23	-1.22/-3.18	-3.61/-3.19	-4.49/-2.79	-3.58/-5.25	-7.71/-12.61	-10.91/-6.91	-6.37/-7.38	-4.22/-3.62	-3.79/-1.75	-0.55/0.11	0.46/0.46	-0.87/-2.63	-2.94/-4.85	
Θ(67.5°)	-4.63/-3.03	-2.38/-2.84	0.35/-2.74	-1.30/-3.67	-4.23/-6.92	-5.71/-5.12	-7.47/-3.06	-6.62/-12.58	-5.06/-2.43	-4.10/-4.46	-4.05/-6.36	-8.40/-7.49	-7.68/-2.84	-2.66/-3.24	-4.79/-7.79	-6.88/-6.90	-7.88/-6.51	-5.04/-7.64	-7.74/-4.47	-4.00/-1.61	-3.62/0.13	0.35/0.91	0.50/-0.12	-3.55/-4.44
Θ(75°)	-3.70/-1.48	-0.48/-1.10	0.95/-1.04	-3.56/-8.42	-6.86/-7.03	-7.14/-6.45	-7.37/-5.72	-8.07/-13.50	-13.32/-9.60	-3.77/-3.62	-5.36/-1.62	-8.94/-12.09	-14.45/-6.96	-7.19/-3.95	-7.99/-3.60	-5.61/-9.46	-4.69/-4.14	-3.06/-9.68	-3.95/-5.19	-1.05/-2.99	-2.72/0.41	0.31/0.16	1.48/0.07	-1.43/-2.37
Θ(82.5°)	-2.59/-2.67	-0.50/-0.28	1.38/-0.33	-2.34/-7.60	-6.26/-12.96	-4.13/-4.56	-4.99/-4.25	-7.47/-3.96	-13.08/-12.36	-6.97/-7.95	-5.66/-11.63	-10.17/-10.65	-9.47/-4.76	-14.34/-4.62	-6.66/-5.53	-5.28/-5.63	-4.55/-6.96	-8.60/-10.12	-7.55/-9.49	-3.32/-5.74	-5.13/-0.15	0.45/2.84	1.52/-0.29	-0.98/-1.28
Θ(90°)	-2.72/-3.28	-0.14/-0.40	1.56/0.39	-3.44/-4.05	-8.16/-6.32	-4.15/-5.43	-1.72/-5.40	-4.84/-3.45	-13.63/-13.80	-7.58/-7.76	-6.20/-12.20	-12.19/-11.16	-14.10/-11.82	-14.02/-14.09	-9.70/-8.23	-6.55/-9.59	-9.53/-9.18	-7.91/-11.18	-7.21/-4.66	-4.43/-4.27	-1.74/-2.40	0.69/0.09	2.63/0.97	-0.37/-2.43
Θ(97.5°)	-1.13/-1.86	0.93/-1.67	2.09/1.08	0.28/-1.44	-4.85/-6.80	-6.69/-3.15	-3.37/-2.86	-4.81/-3.99	-8.15/-9.03	-11.59/-15.12	-7.58/-12.29	-12.81/-6.63	-11.76/-11.33	-9.90/-12.53	-10.83/-9.41	-13.69/-12.44	-8.37/-14.00	-14.08/-13.70	-7.90/-9.72	-3.48/-2.07	-1.06/-1.04	0.89/2.94	1.64/-1.07	0.85/-0.60
Θ(105°)	-0.11/-2.48	-0.98/-1.43	1.91/1.46	1.40/-2.11	-2.57/-5.89	-5.60/-3.11	-3.25/-6.01	-1.86/-5.59	-9.63/-7.46	-14.85/-15.24	-15.64/-11.00	-14.45/-13.73	-13.00/-12.25	-9.96/-7.69	-15.23/-9.07	-8.04/-9.91	-7.10/-11.33	-14.30/-10.51	-8.04/-5.63	-6.46/-1.15	1.01/-1.15	1.23/2.46	2.05/-1.51	-0.87/0.53
Θ(112.5°)	0.74/-1.59	-0.47/-2.21	0.19/2.44	1.39/-0.11	-3.70/-3.85	-4.81/-5.77	-9.19/-4.12	-1.76/-7.84	-6.86/-10.68	-11.59/-12.33	-15.11/-8.61	-11.64/-14.65	-14.35/-11.76	-8.11/-7.35	-15.44/-8.08	-10.55/-8.23	-3.57/-6.88	-8.13/-9.47	-6.76/-8.79	-9.59/-1.93	1.06/-0.26	2.27/2.33	2.56/2.10	0.41/0.82
Θ(120°)	0.74/-0.38	-0.17/-2.22	-0.38/0.73	1.72/-0.20	-1.00/-4.11	-1.26/-4.38	-7.59/-2.72	-5.51/-9.80	-5.68/-12.23	-14.04/-8.79	-8.63/-8.74	-9.65/-10.74	-8.42/-8.89	-11.00/-9.00	-12.67/-13.05	-6.28/-10.39	-8.75/-9.89	-12.58/-6.69	-9.00/-9.61	-10.64/-3.97	-2.07/-0.16	2.62/2.67	3.45/1.46	0.71/-1.42
Θ(127.5°)	1.89/0.40	-0.26/-0.38	-0.04/-1.09	-0.04/-1.54	-3.39/-1.83	-3.92/-4.46	-9.00/-7.58	-11.01/-12.63	-15.03/-9.82	-12.45/-8.89	-6.67/-9.72	-9.24/-8.60	-8.31/-9.61	-7.90/-9.66	-8.27/-8.01	-12.00/-11.37	-8.35/-11.54	-5.96/-3.34	-7.78/-2.77	-8.79/-8.71	-5.44/-1.58	2.02/3.11	1.97/0.65	1.13/2.34
Θ(135°)	1.61/-0.18	-1.31/-1.34	-2.61/-1.33	-1.08/-1.55	-2.90/-1.09	-2.17/-2.56	-7.70/-5.89	-9.85/-9.41	-8.79/-10.80	-7.79/-11.92	-11.25/-8.48	-10.15/-11.61	-14.03/-12.55	-8.80/-8.18	-12.66/-10.56	-12.73/-13.94	-10.11/-9.42	-6.45/-7.95	-11.42/-5.27	-4.00/-5.88	-6.44/-3.14	0.20/0.79	0.81/0.04	1.33/2.83
Θ(142.5°)	1.47/0.93	-0.17/-2.20	-3.31/-2.48	-1.51/-2.42	-4.41/-2.22	-2.26/-3.68	-6.26/-7.12	-5.03/-10.14	-9.44/-3.70	-3.87/-4.96	-6.24/-8.77	-10.44/-12.51	-10.01/-10.08	-9.41/-14.35	-13.06/-10.18	-16.12/-13.50	-10.23/-16.11	-10.36/-9.88	-4.11/-1.49	-1.89/-3.30	-4.30/-4.12	-2.18/-1.06	-1.16/-1.24	0.26/-1.49
Θ(150°)	1.63/2.13	2.06/0.59	-0.94/-1.58	-2.22/-3.92	-6.53/-4.80	-5.11/-2.31	-4.46/-6.57	-6.03/-4.23	-3.27/-4.71	-9.88/-15.45	-9.45/-8.47	-10.26/-11.41	-13.34/-13.89	-12.89/-14.31	-12.18/-9.85	-10.98/-12.54	-15.26/-11.39	-11.01/-5.73	-1.89/-1.82	-3.58/-3.98	-4.27/-3.11	-2.99/-1.74		-0.85/0.60
Θ(157.5°)	0.29/0.08	-0.45/-0.84	-1.41/-0.26	0.34/-0.80	-3.50/-5.13	-4.09/-3.79	-4.46/-5.11	-4.91/-5.34	-6.81/-6.70	-7.93/-9.87	-10.17/-10.68	-12.55/-15.21	-15.32/-13.99	-14.22/-10.27	-8.89/-7.71	-7.00/-8.13	-7.55/-8.15	-7.67/-4.46	-3.29/-4.22	-3.83/-3.24	-4.83/-5.55	-5.61/-4.40	-3.47/-2.55	-1.25/-0.86
Θ(165°)	-0.99/-0.67	-1.47/-2.15	-2.15/-2.68	-2.60/-2.23	-1.95/-3.21	-1.88/-4.38	-5.50/-3.69	-3.97/-6.46	-7.15/-8.88	-8.27/-8.33	-9.89/-9.92	-11.54/-11.76	-11.95/-11.55	-12.80/-11.49	-11.83/-13.16	-12.17/-10.56	-8.28/-6.43	-5.32/-5.04	-6.19/-7.29	-6.22/-5.24	-4.55/-4.22	-3.89/-3.18	-2.45/-2.06	-1.33/-1.16
Θ(172.5°)	-5.64/-7.63	-7.23/-5.89	-6.17/-7.91	-3.39/-3.60	-2.98/-2.98	-3.28/-5.66	-2.01/-2.52	-5.56/-7.64	-6.95/-6.16	-6.96/-7.36	-7.44/-7.71	-7.07/-7.88	-9.06/-8.32	-9.46/-10.78	-12.62/-12.08	-12.45/-12.16	-10.58/-9.40	-9.59/-9.69	-9.68/-8.27	-7.24/-7.29	-7.21/-6.89	-6.30/-5.90	-5.15/-5.32	
Θ(180°)	-5.64/-4.62	-4.75/-4.36	-5.39/-6.36	-6.39/-6.31	-7.26/-5.43	-3.90/-4.12	-6.87/-10.16	-8.79/-6.95	-7.46/-6.98	-7.96/-10.47	-10.24/-7.48	-6.04/-6.54	-7.47/-7.90	-7.47/-6.99	-6.56/-6.13	-5.45/-5.63	-5.63/-6.02	-5.90/-6.11	-6.56/-6.03	-5.23/-4.71	-4.79/-5.14	-5.58/-6.01	-6.11/-6.07	-6.54/-6.40
Freq(Hz)	6.475G/Pol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-3.08/-2.76	-3.19/-2.86	-2.54/-1.93	-2.75/-2.32	-2.39/-2.87	-2.53/-3.47	-4.63/-3.41	-2.74/-3.05	-3.05/-3.68	-4.72/-4.37	-3.53/-3.33	-4.23/-3.12	-3.54/-2.83	-3.33/-2.85	-2.87/-2.60	-2.59/-2.59	-3.08/-3.00	-2.88/-2.89	-2.79/-2.58	-2.73/-2.77	-3.01/-2.61	-2.49/-2.71	-2.96/-3.04	-3.04/-3.17
Θ(7.5°)	-3.66/-3.37	-3.67/-3.90	-4.15/-4.07	-3.85/-5.07	-3.29/-3.65	-3.58/-3.02	-3.41/-3.85	-2.98/-2.29	-2.54/-2.11	-2.24/-2.29	-2.15/-1.78	-2.34/-2.06	-2.22/-1.88	-2.04/-2.41	-2.34/-2.62	-2.23/-1.95	-2.13/-2.57	-2.88/-3.02	-3.01/-3.40	-3.47/-3.83	-3.35/-3.05	-3.49/-3.27	-3.74/-3.94	-3.93/-3.89
Θ(15°)	-3.95/-4.06	-6.22/-6.82	-8.02/-8.64	-7.71/-7.32	-7.45/-6.12	-5.21/-3.94	-3.57/-4.68	-3.98/-4.24	-2.54/-2.17	-2.01/-2.01	-1.68/-0.89	-0.51/0.80	-0.91/-1.01	-1.19/-2.00	-2.27/-2.69	-2.34/-2.29	-1.93/-2.81	-3.23/-3.32	-2.69/-1.75	-1.64/-1.73	-1.74/-1.87	-0.98/-0.52	-0.51/-0.94	-2.19/-3.23
Θ(22.5°)	-5.46/-9.47	-9.65/-10.94	-9.48/-7.20	-6.86/-3.36	-3.26/-3.08	-2.28/-1.22	-1.74/-3.23	-1.72/-1.25	-0.69/-0.12	0.13/0.11	0.17/0.57	0.56/1.39	1.30/0.30	-0.53/-1.42	-2.21/-3.01	-3.64/-4.67	-4.80/-5.05	-3.87/-2.96	-2.37/-1.20	-0.14/0.35	-0.07/-1.15	-2.06/-1.32	-1.07/-1.18	-1.48/-2.36
Θ(30°)	-4.21/-6.94	-7.94/-8.17	-9.76/-6.68	-7.30/-1.61	-0.53/-2.04	-1.75/-1.82	-2.42/-0.62	-0.14/-0.24	0.05/0.08	-0.89/-0.64	0.45/1.00	-0.01/-1.10	1.94/-1.56	0.85/-0.52	-1.73/-3.27	-3.18/-4.47	-5.25/-5.43	-5.38/-5.34	-5.25/-2.93	-2.15/-0.55	0.75/0.86	-0.01/-1.13	-0.91/-2.02	-2.66/-3.62
Θ(37.5°)	-1.54/-5.83	-1.87/-9.24	-6.84/-0.05	-0.47/0.37	-2.20/-2.42	-0.75/-2.13	-2.08/-2.32	-1.88/-1.40	0.18/0.99	0.96/0.16	0.20/0.71	0.81/-0.27	-0.53/-0.81	-1.00/-0.77	-0.66/-1.27	-0.28/-0.07	-3.61/-6.85	-7.66/-5.82	-4.90/-3.09	-3.48/-0.06	0.75/-0.17	-0.24/-1.31	-1.76/-2.10	-3



Antenna Pattern

Appendix B.5

Θ (0°)	-13.71/-12.08	-13.57/-11.76	-14.68/-11.25	-14.75/-12.53	-14.54/-14.06	-13.66/-15.87	-14.89/-14.31	-14.69/-14.82	-15.52/-15.48	-15.19/-14.63	-15.58/-15.68	-14.19/-12.69	-14.71/-15.27	-11.76/-15.02	-11.77/-12.51	-11.95/-11.02	-13.09/-11.82	-13.21/-12.45	-12.11/-13.01	-12.67/-10.93	-11.40/-11.68	-11.97/-11.71	-12.61/-12.90	-12.00/-11.79
Θ (7.5°)	-15.72/-13.31	-12.58/-13.35	-12.12/-12.03	-10.63/-11.11	-9.49/-9.76	-9.25/-9.43	-7.13/-8.64	-9.51/-11.84	-12.22/-13.22	-14.66/-15.30	-13.93/-11.71	-14.55/-14.49	-15.09/-10.88	-12.82/-12.76	-13.21/-13.83	-15.01/-15.35	-15.83/-15.76	-15.05/-15.57	-15.66/-15.75	-15.22/-15.44	-14.71/-15.39	-14.30/-14.27		
Θ (15°)	-14.31/-15.06	-14.73/-10.41	-9.57/-7.56	-8.07/-6.89	-10.90/-9.16	-8.87/-9.13	-7.87/-11.09	-8.69/-6.25	-6.26/-5.77	-7.47/-8.68	-6.75/-9.93	-8.17/-7.74	-9.84/-10.28	-6.15/-9.26	-9.78/-9.27	-9.84/-10.28	-6.35/-7.32	-6.12/-9.26	-9.84/-10.28	-6.35/-7.32	-6.12/-9.26	-9.84/-10.28	-6.35/-7.32	
Θ (22.5°)	-12.83/-12.82	-8.82/-8.27	-5.91/-6.82	-5.21/-7.10	-7.24/-10.42	-12.04/-10.99	-10.68/-10.55	-10.31/-6.67	-7.57/-8.21	-8.78/-6.72	-7.54/-11.94	-12.66/-8.60	-8.27/-6.22	-7.74/-9.05	-6.33/-4.79	-5.23/-7.86	-8.86/-9.92	-13.16/-10.63	-10.22/-9.31	-8.18/-10.13	-13.51/-10.82	-9.06/-9.24	-11.25/-10.80	-11.52/-12.01
Θ (30°)	-15.14/-14.72	-11.16/-8.64	-6.49/-5.33	-3.18/-1.73	-4.44/-6.33	-11.20/-11.01	-14.55/-13.67	-12.11/-13.08	-10.65/-15.81	-8.75/-8.34	-9.78/-10.41	-10.40/-11.84	-6.58/-8.77	-3.98/-3.37	-3.89/-4.74	-6.54/-7.36	-11.48/-11.49	-12.61/-11.07	-12.31/-14.18	-7.53/-4.28	-4.53/-4.51	-4.55/-6.04	-5.62/-8.38	-10.29/-11.35
Θ (37.5°)	-11.35/-11.85	-7.72/-7.16	-5.36/-3.62	-3.45/-2.62	-6.89/-11.64	-14.09/-15.98	-10.61/-11.29	-13.06/-14.61	-12.28/-11.02	-10.33/-14.01	-4.25/-9.98	-10.21/-8.60	-4.06/-4.99	-9.92/-8.51	-8.48/-7.42	-5.45/-3.78	-5.17/-5.45	-4.74/-2.72	-2.99/-3.73	-5.14/-4.95	-8.55/-8.42	-8.65/-8.52		
Θ (45°)	-9.26/-6.56	-2.17/-1.86	-3.46/-4.49	-6.18/-8.90	-12.45/-7.05	-6.12/-6.35	-4.67/-10.68	-9.69/-6.07	-5.06/-5.84	-7.47/-14.85	-10.72/-6.72	-7.20/-6.82	-5.07/-3.43	-1.81/-1.83	-3.82/-3.10	-5.57/-6.32	-9.20/-6.55	-7.95/-4.74	-4.75/-5.16	-4.81/-6.14	-6.81/-4.34	-6.27/-5.48	-3.94/-12.84	-8.58/-13.34
Θ (52.5°)	-8.97/-8.55	-0.98/-0.61	-0.74/-2.10	-10.76/-4.87	-7.12/-5.31	-3.44/-3.29	-5.75/-11.61	-13.30/-4.01	-4.94/-2.06	-5.18/-8.26	-10.53/-10.82	-8.60/-6.26	-3.49/-3.40	-3.14/-5.55	-6.95/-4.74	-7.30/-5.43	-8.40/-5.00	-5.36/-3.37	-2.61/-4.52	-5.92/-3.16	-5.42/-8.29	-2.94/-3.37	-3.10/-7.98	-9.51/-8.30
Θ (60°)	-9.98/-7.51	-2.53/-1.22	-0.35/-0.33	-5.70/-5.79	-4.00/-2.61	-1.37/-3.08	-6.60/-5.66	-12.05/-5.36	-4.03/-1.74	-4.36/-8.33	-10.85/-8.42	-13.95/-7.76	-5.03/-2.89	-2.41/-4.46	-4.51/-4.85	-3.86/-4.52	-8.12/-14.60	-8.38/-3.89	-2.61/-3.45	-2.61/-3.15	-4.97/-3.47	-3.73/-9.48	-10.02/-8.66	
Θ (67.5°)	-6.81/-4.17	-3.34/-2.88	-2.50/-0.43	-1.13/-1.41	-1.89/-1.19	-1.96/-5.03	-13.78/-6.52	-3.78/-2.19	-2.53/-2.67	-8.00/-6.54	-6.56/-6.56	-8.64/-7.05	-6.98/-3.92	-4.08/-7.93	-6.25/-9.09	-8.70/-3.78	-7.85/-7.98	-4.68/-4.62	-5.63/-5.72	-4.29/-2.89	-3.59/-3.20	-2.07/-2.61	-5.41/-8.56	-12.22/-8.53
Θ (75°)	-4.04/-4.42	-3.98/-4.17	-1.91/-1.11	-1.33/-0.21	0.31/-3.33	-6.20/-14.73	-6.86/-6.79	-5.13/-3.63	-1.79/-6.01	-4.12/-7.15	-10.32/-3.70	-8.01/-7.11	-10.28/-6.59	-7.14/-3.67	-3.74/-6.25	-11.53/-11.45	-5.38/-6.09	-5.20/-7.77	-4.74/-9.01	-5.67/-9.19	-3.66/-5.07	-2.24/-2.56	-3.15/-10.47	-10.53/-7.35
Θ (82.5°)	-2.61/-4.37	-0.95/-8.67	-5.29/0.21	0.90/-1.90	0.60/-6.01	-1.73/-11.62	-3.09/-3.61	-4.92/-4.74	-2.04/-8.76	-3.05/-5.16	-7.50/-14.61	-14.14/-8.64	-3.11/-4.69	-7.18/-4.71	-5.81/-9.97	-1.50/-6.20	-5.09/-12.30	-7.41/-4.63	-3.89/-2.55	-4.61/-1.82	-3.63/-3.77	-1.10/-2.89	-4.55/-8.13	-10.20/-14.68
Θ (90°)	-4.90/-1.09	-1.03/-4.12	-4.86/-1.31	1.87/-1.43	0.35/-3.85	-6.26/-7.94	-2.48/-4.23	-3.06/-4.80	-3.08/-5.43	-3.56/-5.05	-6.25/-5.34	-9.93/-9.31	-12.45/-7.74	-4.99/-8.14	-6.23/-2.38	-3.84/-5.56	-8.90/-4.52	-9.64/-1.65	0.16/-0.74	0.00/-1.34	-2.29/-2.16	1.78/-1.27	-4.97/-7.72	-8.97/-8.57
Θ (97.5°)	-3.83/-1.67	-2.37/-10.10	-2.85/-0.93	0.35/-1.80	-0.21/-0.08	-5.58/-8.08	-5.71/-4.41	-8.76/-2.51	-0.98/-2.70	-2.80/-2.60	-3.53/-1.71	-5.61/-11.86	-12.18/-7.15	-5.81/-3.34	-12.82/-14.29	-11.00/-2.28	-7.80/-7.74	-8.60/-6.76	-3.05/-6.25	-1.42/-8.77	-3.98/-1.26	2.19/-0.97	-7.22/-9.86	-11.27/-5.86
Θ (105°)	-4.51/-1.46	-2.00/-6.56	-4.84/-1.57	1.40/-0.57	0.15/-0.34	-4.25/-5.21	-3.68/-6.86	-4.40/-0.54	-2.64/-1.18	-2.38/-2.98	-1.20/-1.73	-4.59/-5.74	-8.75/-8.51	-6.94/-13.15	-9.52/-9.11	-11.54/-4.90	-9.92/-9.98	-4.46/-1.93	-3.43/-9.23	-5.58/3.09	1.13/-1.50	1.95/-0.04	-3.32/-12.07	-9.47/-10.74
Θ (112.5°)	-10.22/-4.07	-2.18/-1.80	-3.38/-1.58	-1.29/-0.77	-0.22/0.55	-0.50/-2.73	-5.57/-5.22	-0.46/-0.98	0.65/-0.50	-4.40/-1.59	-5.76/-2.27	-5.69/-5.70	-13.55/-8.25	-5.08/-6.19	-4.10/-6.14	-8.40/-8.10	-7.19/-8.72	-6.06/-5.00	-2.52/-3.93	-11.82/-1.22	2.11/-1.58	1.98/-1.02	-3.04/-5.24	-8.37/-9.97
Θ (120°)	-11.04/-7.43	-2.71/-0.27	-1.09/-1.89	-1.98/-1.83	0.79/-0.13	2.08/-1.67	-4.62/-1.25	-1.18/-0.09	1.06/-4.00	-1.60/-4.29	-6.31/-1.95	-15.43/-5.36	-2.31/-1.47	-1.58/-3.06	-4.18/-5.88	-11.65/-5.75	-6.16/-6.91	-1.74/-3.78	-8.41/-0.23	-0.76/-2.75	0.42/-0.44	-1.71/-4.96	-9.24/-9.87	
Θ (127.5°)	-4.81/-5.98	-4.88/-0.27	-2.24/-3.63	-2.95/-1.60	0.20/-0.86	0.60/-0.56	-4.21/-1.14	1.13/-2.00	-0.12/-2.77	-5.07/-5.21	-6.02/-4.83	-6.66/-1.14	-2.11/-1.97	-2.74/-5.71	-10.49/-8.39	-10.75/-11.49	-8.53/-8.81	-6.30/-5.94	-3.39/-2.60	-5.67/-5.08	-0.25/-1.13	0.43/-1.07	-3.34/-6.55	-10.29/-11.07
Θ (135°)	-6.90/-6.24	-4.11/-4.36	-1.49/-0.88	1.00/-0.77	1.50/-0.21	-2.86/-2.17	-2.86/-0.39	-1.32/-0.40	-0.58/-4.88	-6.56/-4.70	-6.63/-2.37	-3.97/-2.29	-4.52/-7.69	-4.19/-3.96	-4.76/-9.80	-10.70/-8.56	-9.31/-9.58	-13.54/-6.74	-5.52/-4.34	-6.91/-5.08	0.37/-0.97	-1.17/-1.67	-4.44/-5.08	-10.98/-10.54
Θ (142.5°)	-4.78/-4.43	-3.26/-2.28	-1.02/-0.19	-0.23/0.06	-0.27/-1.80	-2.30/-3.06	-4.03/-3.08	-2.29/-0.00	-4.97/-2.36	-2.41/-8.69	-2.70/-2.12	-6.90/-4.62	-4.57/-5.67	0.04/-0.19	-3.31/-9.67	-11.01/-10.03	-7.78/-6.13	-5.39/-7.10	-8.91/-8.13	-4.57/-5.26	-1.85/-2.15	-2.49/-1.65	-7.31/-6.84	-8.19/-11.24
Θ (150°)	-9.57/-7.20	-5.96/-4.71	-4.93/-3.00	-2.81/-1.98	-3.46/-2.54	-3.04/-4.69	-6.18/-8.88	-6.17/-3.70	-3.46/-5.02	-7.44/-0.81	0.75/-2.12	-6.81/-4.88	-5.36/-4.26	-2.09/-3.00	-4.39/-3.83	-4.46/-4.46	-2.01/-2.73	-7.02/-10.39	-4.60/-2.28	-2.02/-2.49	-1.74/-3.28	-5.51/-3.50	-4.09/-9.50	-11.44/-7.65
Θ (157.5°)	-9.86/-10.42	-9.75/-7.96	-7.56/-9.39	-9.28/-8.55	-6.33/-6.07	-7.14/-14.45	-11.44/-8.48	-5.76/-3.05	-2.45/-6.97	-3.62/-2.59	-7.02/-9.11	-3.90/-0.85	-0.75/-2.32	-3.60/-6.62	-6.70/-6.25	-4.23/-2.86	-1.88/-5.04	-5.30/-1.73	0.17/0.09	-0.82/-1.16	-2.17/-5.11	-6.16/-4.68	-6.29/-8.67	-11.27/-11.96
Θ (165°)	-4.85/-4.33	-3.18/-2.87	-3.28/-4.27	-4.47/-6.18	-5.92/-7.98	-6.91/-5.50	-4.97/-7.99	-4.16/-4.31	-5.15/-3.41	-4.50/-7.06	-10.24/-6.87	-3.82/-3.27	-6.23/-7.54	-5.21/-1.07	0.43/-1.04	-1.70/-2.89	-3.02/-3.29	-1.63/-1.93	-2.77/-3.26	-2.45/-2.29	-2.76/-3.62	-4.64/-4.82	-5.71/-7.51	-7.51/-6.12
Θ (172.5°)	-5.20/-5.35	-5.69/-7.17	-7.81/-9.29	-10.39/-10.17	-8.23/-6.15	-5.41/-3.57	-2.89/-1.27	-1.47/-2.56	-0.28/-0.75	-3.58/-9.55	-15.73/-10.46	-7.42/-10.21	-9.50/-3.87	-2.14/-2.04	-3.37/-3.95	-3.38/-1.56	-1.88/-2.94	-3.16/-3.20	-2.84/-2.03	-1.94/-1.54	-1.78/-2.14	-2.54/-3.67	-4.67/-5.97	-6.11/-6.16
Θ (180°)	-3.82/-4.44	-3.82/-3.82	-3.60/-3.01	-2.79/-2.40	-3.15/-2.96	-3.35/-2.76	-3.93/-5.73	-2.41/-0.76	-1.44/-3.50	-4.65/-9.33	-12.51/-12.38	-7.11/-3.49	-1.78/-2.28	-4.99/-5.78	-3.85/-3.26	-5.06/-6.14	-7.22/-5.42	-5.09/-5.18	-4.85/-4.87	-4.75/-5.66	-4.49/-4.00	-3.69/-3.19	-3.61/-3.84	-4.08/-4.18
Freq(Hz)	6.475GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-7.69/-8.93	-8.30/-9.02	-8.32/-8.48	-8.34/-9.27	-7.96/-8.40	-10.06/-8.65	-9.24/-12.60	-10.05/-8.18	-7.77/-9.30	-9.29/-9.24	-9.28/-10.39	-11.00/-8.29	-8.19/-7.22	-7.86/-7.12	-8.13/-7.46	-7.46/-8.99	-7.41/-8.32	-7.81/-9.10	-8.72/-9.38	-8.46/-9.12	-8.59/-8.82	-9.16/-8.58	-9.21/-8.87	-9.09/-8.46
Θ (7.5°)	-0.95/-8.31	-8.88/-7.46	-9.55/-8.31	-9.26/-8.27	-7.94/-8.07	-7.97/-8.43	-8.48/-7.43	-8.72/-8.70	-7.83/-7.18	-8.95/-8.58	-8.47/-7.31	-8.80/-9.65	-10.08/-9.24	-11.33/-11.18	-12.68/-11.18	-11.15/-12.46	-13.86/-13.75	-14.80/-14.35	-14.03/-13.77	-13.93/-13.67	-13.94/-13.01	-12.53/-11.67	-11.99/-10.86	-10.16/-9.51
Θ (15°)	-14.89/-15.11	-15.44/-10.55	-10.82/-10.78	-10.19/-10.02	-8.15/-11.61	-10.42/-11.01	-12.42/-10.72	-10.38/-9.32	-8.70/-7.68	-7.68/-8.69	-9.01/-7.94	-9.64/-12.36	-11.88/-11.82	-9.84/-12.79	-12.78/-14.88	-15.59/-11.80	-11.98/-12.90	-12.94/-10.05	-11.17/-9.89	-12.43/-10.95	-10.89/-12.45	-13.89/-13.26	-13.41/-13.04	-13.58/-14.47
Θ (22.5°)	-14.78/-14.30	-11.66/-9.32	-6.82/-7.89	-9.16/-9.99	-10.50/-8.85	-10.37/-15.26	-15.13/-11.99	-9.95/-11.81	-7.72/-5.21	-6.52/-7.12	-7.69/-8.91	-12.21/-12.81	-10.15/-11.42	-13.50/-10.48	-6.57/-8.45	-5.84/-5.74	-7.59/-8.70	-11.84/-11.25	-10.94/-9.48	-10.22/-7.12	-5.76/-4.74	-5.52/-7.46	-10.78/-11.78	-11.70/-10.61
Θ (30°)	-8.22/-5.97	-6.60/-4.01	-8.84/-6.80	-9.71/-9.79	-10.31/-14.31	-13.99/-12.09	-8.93/-15.85	-8.28/-10.37	-11.48/-8.79	-1.95/-12.37	-13.19/-10.80	-11.95/-15.63	-2.62/-4.07	-7.73/-14.48	-14.95/-15.25	-15.42/-13.65	-10.08/-7.80	-5.20/-3.79	-4.05/-5.69	-4.93/-4.58	-6.63/-8.81	-9.67/-10.56		
Θ (37.5°)	-7.55/-6.31	-4.17/-3.82	-6.97/-8.82	-11.18/-6.47	-8.84/-6.29	-8.81/-9.57	-11.18/-9.30	-9.44/-12.31	-13.34/-10.80	-14.84/-12.62	-11.96/-14.00	-10.66/-12.77	-10.20/-6.97	-4.37/-4.78	-7.05/-7.18	-9.77/-15.00	-14.68/-13.79	-14.74/-12.36	-7.23/-8.34	-9.78/-4.86	-3.94/-4.44	-3.55/-4.26	-6.35/-7.59	-10.90/-9.31
Θ (45°)	-10.44/-6.25	-5.73/-5.22	-6.64/-7.01	-12.18/-5.49	-6.42/-7.87	-3.86/-9.48	-5.70/-8.86	-8.45/-15.12	-10.22/-10.47	-7.74/-7.19	-12.58/-6.87	-7.85/-8.61	-6.78/-6.00	-3.90/-5.57	-4.39/-4.41	-9.12/-7.18	-9.83/-10.98	-9.46/-7.08	-7.16/-8.51	-4.58/-7.34	-7.41/-7.21	-3.75/-5.15	-4.50/-7.82	-11.21/-10.84
Θ (52.5°)	-2.26/-8.21	-4.71/-5.75	-4.30/-4.06	-5.28/-5.51	-7.81/-10.75	-6.30/-3.04	-6.59/-5.58	-15.92/-12.94	-8.03/-4.56	-6.04/-6.28</														



Antenna Pattern

Appendix B.5

Θ (45°)	-6.50/-10.63	-12.99/-9.35	-10.75/-11.26	-11.28/-7.77	-7.64/-9.58	-10.47/-11.37	-7.48/-8.16	-10.62/-12.73	-6.60/-8.32	-9.26/-8.99	-8.66/-8.31	-10.09/-12.49	-8.52/-7.88	-8.37/-8.75	-9.48/-10.33	-5.90/-5.13	-6.96/-5.68	-5.74/-6.68	-8.18/-7.71	-6.98/-6.52	-2.84/-3.28	-2.94/-3.20	-7.45/-12.08	-10.43/-7.12
Θ (52°)	-6.88/-5.66	-9.50/-9.60	-5.21/-5.95	-7.05/-6.04	-6.59/-4.62	-6.07/-7.04	-6.22/-6.47	-4.50/-9.04	-7.48/-8.21	-5.25/-6.94	-6.71/-13.74	-10.73/-8.92	-5.83/-6.43	-4.09/-5.71	-5.92/-4.42	-3.51/-3.95	-3.81/-6.96	-7.48/-4.76	-5.62/-6.65	-6.41/-6.30	-13.83/-8.95	-6.83/-3.01	-4.49/-7.07	-6.39/-6.55
Θ (60°)	-6.26/-6.22	-3.79/-7.45	-3.67/-5.33	-3.76/-2.96	-2.77/-2.97	-2.42/-3.64	-1.61/-3.47	-3.84/-3.91	-4.54/-1.50	-5.03/-6.94	-9.76/-8.33	-7.94/-6.06	-6.82/-5.40	-8.24/-6.40	-5.91/-6.24	-3.06/-6.20	-3.04/-1.62	-2.08/-1.63	-1.85/-1.45	-3.71/-3.35	-10.10/-6.21	-4.52/-4.75	-7.07/-7.72	
Θ (67.5°)	-3.93/-6.30	-1.61/-2.99	-5.00/-1.01	-1.74/-0.22	0.06/-0.38	0.71/0.84	-0.35/-0.48	-0.48/-1.52	-2.04/0.91	-4.48/-0.76	-3.21/-4.92	-8.81/-4.31	-3.07/-8.05	-6.33/-6.63	-11.39/-15.71	-6.66/-5.70	-9.82/-8.13	-9.21/-3.66	-6.08/-8.57	-2.87/-7.21	-5.81/-6.95	-4.76/-4.88	-7.30/-4.69	-2.47/-5.07
Θ (75°)	0.72/-3.01	-3.00/-0.92	-1.49/-0.14	-0.20/-1.32	2.61/1.69	1.64/0.06	0.24/-0.64	2.01/1.13	-1.09/-1.73	-0.93/-0.34	-2.97/-5.82	-3.95/-4.55	-4.29/-5.71	-4.92/-4.29	-1.21/-2.96	-4.54/-1.12	-2.75/-0.93	-1.79/-5.74	-5.06/-6.38	-5.85/-5.16	-3.70/-1.05	-3.47/-0.55	-3.80/-2.90	-1.52/-2.08
Θ (82.5°)	0.39/-1.02	0.69/-0.72	-1.32/-1.99	0.54/0.49	3.16/2.37	2.71/-0.08	2.91/3.51	4.24/0.02	0.88/2.73	-3.04/-0.88	-2.50/-2.11	-2.94/-3.43	-2.57/-5.82	-3.93/-3.40	-3.22/-4.99	-2.66/-1.00	-2.66/-1.83	-1.87/-7.07	-3.32/-1.94	-1.84/-1.02	1.13/-1.12	-1.59/-3.44	-2.76/-2.83	-1.16/-2.09
Θ (90°)	0.86/-3.72	1.16/0.99	-0.80/-1.09	1.21/0.51	3.98/1.83	3.55/2.41	2.82/4.55	4.08/4.51	2.64/2.15	1.67/0.08	-0.33/-0.44	0.82/-0.44	-3.23/-5.16	-0.19/-3.93	-5.95/-5.54	-2.93/-1.51	-1.64/-1.41	-1.05/0.03	1.52/2.63	-3.47/1.52	0.08/0.26	-2.44/-4.38	-1.78/-4.47	-1.07/1.02
Θ (97.5°)	0.78/-2.42	-0.70/-3.07	-2.25/-0.52	0.66/2.70	3.85/1.12	3.56/1.33	0.92/1.85	3.02/2.71	2.16/2.65	2.77/-1.35	-1.92/-3.77	3.41/0.75	-0.86/-2.72	-0.14/-1.72	-5.74/-5.28	-2.87/-4.37	-1.42/-1.80	1.13/-1.16	2.18/-0.05	-4.68/-1.49	1.50/0.36	0.39/-2.55	0.07/-3.00	-1.00/1.93
Θ (105°)	-2.21/-0.70	-0.61/-2.00	-1.79/-0.85	-3.19/-1.27	2.68/0.39	3.01/2.86	1.39/3.52	3.22/2.44	2.12/3.35	1.01/-2.78	-1.96/-1.93	2.73/-0.43	-4.07/-6.45	-1.83/-3.96	-4.97/-2.13	-1.52/-2.65	-1.39/-2.02	-1.27/-10.73	-2.66/-5.62	-3.87/-2.35	-1.09/-0.73	-0.87/-5.79	-1.16/-6.33	-6.88/-3.06
Θ (112.5°)	-9.03/-4.46	-5.17/-4.39	-3.08/-0.00	-3.54/-1.58	-1.78/-1.65	-0.90/-2.14	-1.01/-0.85	0.35/-0.37	-0.14/-1.02	-2.27/-2.40	-0.78/-1.86	0.40/-5.49	-5.40/-2.48	-1.16/-4.24	-9.71/-6.59	-2.33/-3.53	-6.37/-4.95	-6.86/-9.87	-3.92/-11.51	-2.67/-3.94	-1.71/-2.80	-2.57/-7.89	-6.69/-6.05	-8.48/-5.14
Θ (120°)	-5.91/-4.62	-6.04/-7.42	-4.41/-2.29	-5.63/-7.52	-5.51/-6.26	-5.92/-4.72	-4.94/-4.59	-4.54/-2.74	-6.09/-1.56	-3.87/-2.40	-2.30/-5.21	-1.82/-4.99	-2.91/-3.35	-3.72/-7.27	-7.26/-8.50	-5.79/-6.93	-8.05/-8.33	-6.80/-7.02	-10.63/-11.68	-2.25/-3.40	-0.98/-4.06	-2.80/-3.52	-4.76/-3.90	-1.66/-2.89
Θ (127.5°)	-6.73/-6.71	-10.40/-12.65	-10.06/-12.95	-8.22/-9.06	-4.52/-7.36	-8.37/-4.84	-4.70/-6.64	-8.51/-9.20	-3.58/-3.67	-5.46/-6.30	-7.11/-7.19	-2.92/-3.27	-4.89/-10.76	-6.19/-5.08	-4.97/-5.86	-9.76/-15.80	-7.99/-10.97	-4.70/-8.66	-10.27/-6.11	-7.09/-5.93	-3.31/-2.61	-6.97/-7.17	-12.69/-11.37	
Θ (135°)	-14.61/-15.74	-13.60/-16.07	-10.49/-11.34	-14.31/-8.75	-7.92/-7.11	-9.90/-10.44	-9.58/-6.44	-5.33/-4.89	-7.30/-5.46	-11.11/-9.47	-8.53/-8.76	-7.72/-8.73	-11.32/-8.04	-5.16/-5.45	-13.48/-12.97	-15.59/-10.02	-9.76/-12.09	-12.04/-14.82	-9.99/-14.65	-8.84/-15.76	-12.24/-13.27	-9.54/-8.82	-9.60/-10.49	-14.85/-16.30
Θ (142.5°)	-6.89/-8.09	-7.68/-15.45	-6.51/-6.44	-6.30/-6.03	-6.53/-6.68	-6.77/-4.34	-3.62/-5.30	-6.37/-5.96	-5.37/-7.32	-7.47/-12.84	-10.30/-10.92	-12.40/-9.10	-6.50/-10.68	-11.20/-12.86	-13.48/-8.48	-13.39/-10.64	-7.81/-14.45	-13.94/-15.39	-13.19/-10.81	-9.84/-8.33	-13.28/-12.82	-13.09/-9.32	-8.51/-12.32	-12.17/-8.23
Θ (150°)	-9.05/-10.74	-8.43/-6.65	-6.04/-4.38	-5.51/-7.88	-5.50/-4.91	-3.56/-4.25	-5.70/-5.15	-6.38/-7.54	-8.19/-8.86	-11.06/-11.11	-8.45/-8.45	-4.68/-4.19	-5.46/-7.47	-8.58/-12.31	-9.32/-10.96	-12.73/-12.71	-8.22/-11.42	-9.44/-9.92	-9.98/-12.03	-14.53/-10.75	-11.83/-13.19	-8.92/-9.60	-10.13/-10.25	
Θ (157.5°)	-15.24/-15.52	-10.07/-5.88	-6.77/-10.52	-6.35/-3.53	-4.05/-5.77	-9.23/-8.48	-7.10/-7.95	-8.26/-7.11	-5.34/-4.89	-10.09/-12.32	-8.78/-7.08	-7.10/-5.11	-8.34/-9.21	-9.70/-8.72	-8.75/-9.64	-13.74/-12.06	-13.80/-8.56	-9.62/-8.56	-11.53/-12.86	-10.45/-9.95	-11.34/-13.19	-11.86/-10.19	-11.59/-10.28	-9.68/-12.00
Θ (165°)	-12.63/-15.39	-14.25/-14.64	-11.42/-11.11	-11.46/-10.43	-10.78/-7.72	-6.83/-9.67	-6.95/-7.95	-8.61/-6.34	-6.33/-9.32	-6.16/-9.72	-14.64/-10.58	-10.29/-12.67	-13.10/-15.18	-15.39/-15.37	-11.82/-9.73	-9.05/-9.02	-7.79/-8.43	-8.27/-9.71	-9.80/-8.55	-8.12/-10.31	-13.46/-15.98	-13.07/-10.92	-10.06/-14.20	
Θ (172.5°)	-14.85/-15.13	-15.71/-15.46	-13.09/-13.50	-12.86/-11.14	-10.71/-11.26	-9.77/-11.58	-11.36/-10.93	-9.77/-11.05	-9.58/-9.38	-8.55/-11.68	-15.75/-13.79	-12.55/-11.53	-11.43/-12.87	-15.28/-15.36	-10.91/-11.60	-10.63/-10.81	-9.88/-8.85	-10.08/-10.51	-9.49/-9.57	-9.30/-9.05	-10.60/-12.45	-12.68/-15.16	-15.04/-15.97	-14.03/-15.33
Θ (180°)	-15.06/-14.47	-14.03/-15.88	-15.63/-13.98	-13.96/-14.55	-14.40/-16.05	-15.49/-15.73	-15.88/-14.30	-13.35/-14.80	-14.99/-15.06	-15.29/-12.72	-10.76/-13.77	-14.66/-12.71	-11.02/-13.56	-14.56/-13.69	-14.25/-11.71	-13.19/-12.87	-14.41/-14.86	-13.62/-11.92	-12.03/-13.15	-12.58/-15.15	-13.52/-13.33	-12.63/-12.90	-12.74/-12.89	-13.19/-13.19
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°)	-14.01/-14.41	-14.07/-13.82	-13.67/-15.40	-15.38/-15.24	-15.64/-14.32	-13.75/-15.39	-14.21/-13.76	-15.20/-13.34	-15.35/-14.20	-15.46/-13.07	-12.51/-12.42	-12.39/-12.75	-14.54/-12.60	-10.46/-11.45	-10.58/-12.39	-12.74/-11.43	-13.57/-13.56	-11.53/-13.52	-12.92/-13.08	-14.47/-13.72	-13.68/-13.88	-12.88/-14.10	-14.41/-13.23	-14.17/-13.59
Θ (7.5°)	-13.93/-14.29	-14.84/-15.39	-15.21/-15.44	-15.18/-13.88	-14.91/-12.70	-14.24/-15.95	-14.24/-12.99	-13.80/-14.06	-12.75/-12.74	-11.54/-11.40	-13.24/-12.03	-10.51/-13.10	-11.17/-10.85	-10.97/-12.04	-12.53/-12.02	-12.26/-14.73	-13.41/-14.01	-15.24/-15.19	-14.11/-14.16	-14.11/-12.20	-14.23/-13.19	-14.23/-13.19	-12.35/-12.67	
Θ (15°)	-10.93/-11.28	-10.76/-10.69	-10.22/-9.39	-8.28/-8.51	-7.99/-8.85	-8.54/-9.42	-9.53/-10.42	-12.21/-9.75	-13.84/-14.55	-13.13/-13.39	-12.71/-11.58	-12.75/-11.21	-10.47/-10.53	-9.85/-10.36	-7.86/-8.81	-6.85/-7.61	-6.72/-6.61	-7.06/-6.50	-14.24/-9.48	-10.01/-10.69	-10.20/-11.20	-12.62/-13.26	-12.14/-12.12	-12.08/-11.82
Θ (22.5°)	-10.44/-11.75	-11.66/-11.69	-11.29/-8.94	-7.88/-7.44	-7.49/-6.44	-6.68/-5.95	-7.09/-8.46	-10.20/-7.49	-6.00/-7.26	-6.78/-8.31	-7.87/-9.79	-10.43/-10.09	-9.28/-9.02	-7.69/-8.67	-10.75/-8.24	-6.98/-6.78	-6.95/-7.48	-8.47/-7.91	-7.64/-8.83	-8.94/-8.95	-8.31/-9.85	-8.78/-10.29	-7.99/-8.55	-10.05/-12.53
Θ (30°)	-9.86/-9.86	-7.76/-8.16	-8.65/-7.14	-7.54/-6.17	-5.58/-5.56	-6.22/-6.74	-9.41/-8.85	-5.93/-6.42	-5.68/-5.05	-5.89/-6.01	-4.55/-6.48	-7.33/-6.94	-10.42/-10.69	-7.40/-8.32	-10.09/-7.65	-8.19/-9.24	-9.48/-10.96	-14.74/-13.64	-10.99/-9.93	-10.60/-10.22	-8.06/-8.98	-10.45/-7.18	-8.56/-9.37	-9.24/-10.62
Θ (37.5°)	-8.83/-5.77	-5.97/-6.30	-5.99/-9.19	-7.91/-7.48	-7.12/-7.24	-7.83/-6.22	-6.29/-7.69	-6.91/-6.15	-6.09/-5.73	-6.98/-6.26	-5.57/-10.39	-7.06/-9.42	-9.37/-11.02	-8.84/-6.76	-6.76/-9.42	-6.87/-9.75	-7.20/-6.25	-4.24/-3.62	-4.55/-4.15	-4.00/-5.68	-6.57/-10.61	-11.77/-11.71	-9.08/-6.63	-8.15/-6.69
Θ (45°)	-8.98/-10.69	-7.32/-6.68	-5.90/-5.05	-7.88/-8.34	-7.55/-9.39	-8.90/-8.17	-7.92/-12.22	-6.60/-7.18	-6.09/-6.45	-7.66/-7.22	-7.19/-7.44	-7.65/-8.78	-12.08/-9.64	-6.76/-7.16	-6.83/-5.79	-4.52/-4.21	-4.63/-5.95	-4.23/-6.78	-4.60/-4.02	-6.14/-6.12	-4.12/-3.64	-5.44/-7.58	-11.47/-9.97	-7.04/-10.54
Θ (52.5°)	-7.06/-15.55	-6.59/-5.61	-5.85/-6.24	-6.23/-9.37	-9.90/-8.82	-5.47/-7.30	-7.41/-5.88	-6.90/-7.59	-6.41/-6.37	-8.55/-8.38	-6.63/-8.95	-7.22/-10.45	-7.24/-6.31	-7.52/-8.52	-6.98/-9.42	-4.87/-3.70	-3.01/-6.68	-8.10/-5.87	-7.07/-5.52	-8.20/-7.91	-7.61/-7.41	-2.75/-4.65	-7.03/-10.64	-6.32/-9.39
Θ (60°)	-4.75/-5.68	-7.53/-5.25	-5.43/-2.76	-3.28/-3.01	-4.78/-2.73	-1.33/-2.43	-6.13/-3.63	-3.57/-4.44	-5.42/-6.36	-4.15/-4.13	-8.37/-7.79	-6.12/-9.39	-6.94/-6.40	-8.47/-8.36	-5.09/-5.20	-4.67/-4.64	-2.19/-3.64	-1.88/-0.89	0.18/-1.27	-2.91/-3.69	-3.73/-2.56	-5.63/-5.79	-6.14/-8.49	-7.43/-6.14
Θ (67.5°)	-5.79/-3.11	-2.74/-1.56	-2.86/-1.10	-1.37/-1.04	-2.71/-0.61	-0.08/-0.18	-0.79/-0.57	-1.67/-2.99	-2.31/-3.75	-3.13/-3.86	-4.15/-4.95	-8.72/-7.09	-6.01/-6.22	-7.92/-9.96	-9.01/-10.94	-7.09/-6.83	-5.17/-8.29	-5.22/-3.49	-7.40/-5.62	-5.22/-3.15	-6.05/-4.34	-5.42/-5.27	-5.14/-4.17	-4.89/-4.93
Θ (75°)	-2.76/-5.61	-1.04/-0.87	-2.67/0.48	-1.45/-1.23	0.80/-0.14	1.14/-1.59	-1.44/0.77	1.46/0.12	-2.36/-1.45	-1.30/-1.06	-3.57/-3.13	-7.54/-4.29	-4.73/-3.82	-3.31/-7.91	-2.49/-3.45	-4.21/-1.02	-1.76/-2.18	-2.57/-1.57	-4.76/-5.59	-5.38/-5.47	-4.36/-6.03	-5.85/-4.48	-3.54/-9.04	-2.47/-1.68
Θ (82.5°)	-1.34/-3.35	0.30/0.91	-2.56/-1.21	-1.09/3.00	2.26/2.24	2.71/3.28	1.20/2.53	2.96/0.23	-3.41/-1.97	0.78/-1.37	-5.20/-3.49	-5.61/-2.04	-3.08/-3.17	-4.95/-1.14	-3.26/-3.28	-3.48/-2.61	-3.62/-2.64	-2.94/-7.48	-7.44/-2.68	-2.01/0.83	-1.21/-0.09	-2.51/-4.64	-2.17/-6.36	-2.68/-3.43
Θ (90°)	-1.85/-6.38	1.40/1.81	-0.16/-1.70	-1.02/2.71	1.38/4.00	2.79/6.65	2.28/2.80	3.23/0.78	0.30/3.18	0.47/0.50	-2.66/-2.68	-2.96/-0.88	-2.35/-4.84	-1.96/-1.17	-1.68/-6.73	-5.39/-3.36	-4.06/0.05	-0.89/-1.42	1.13/0.48	-6.36/-0.60	-1.18/-2.69	0.44/-4.84	-2.86/-4.31	-0.16/-8.00
Θ (97.5°)	0.21/-9.82	-1.24/0.21	-1.75/-0.16	-0.7																				

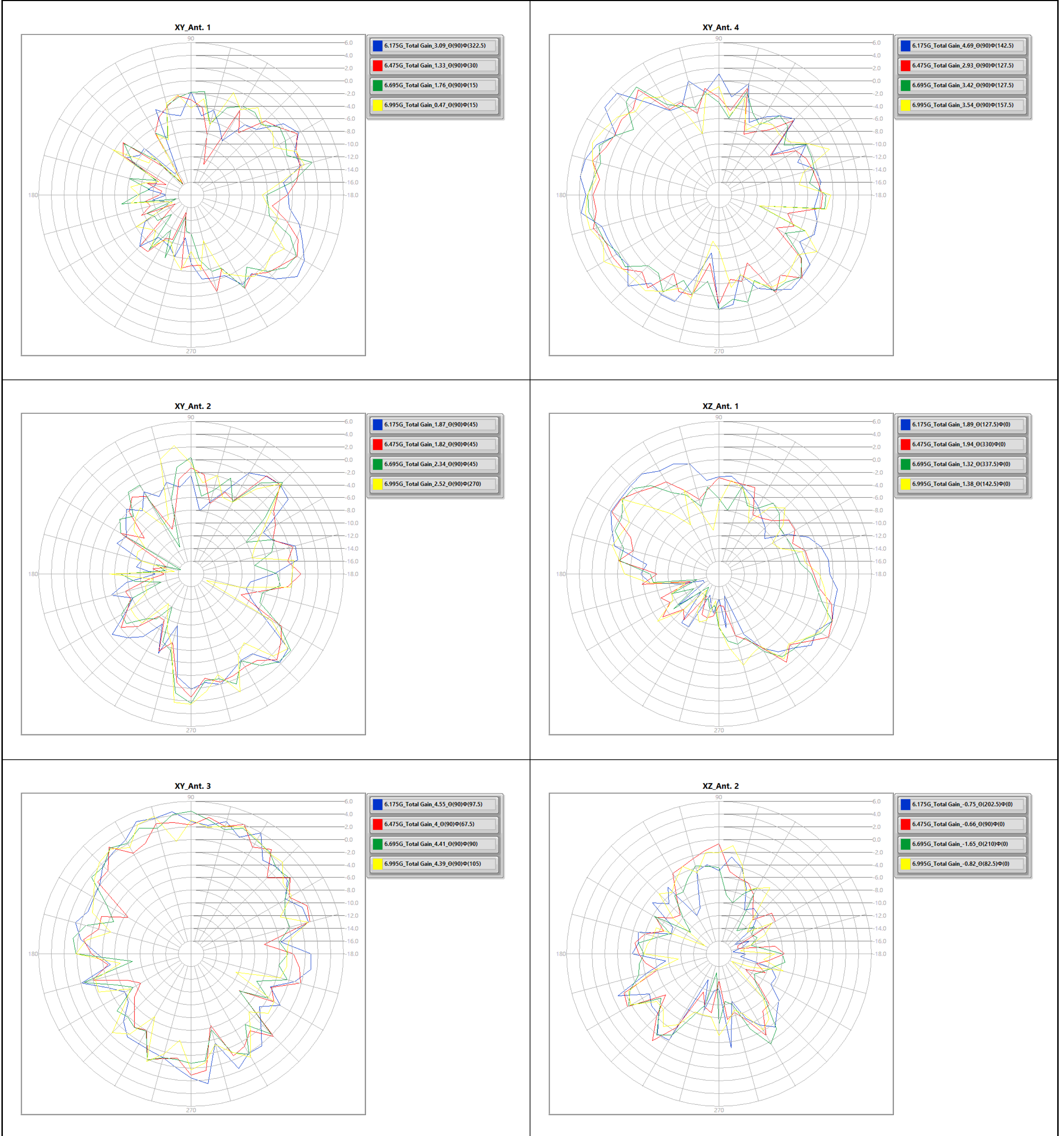


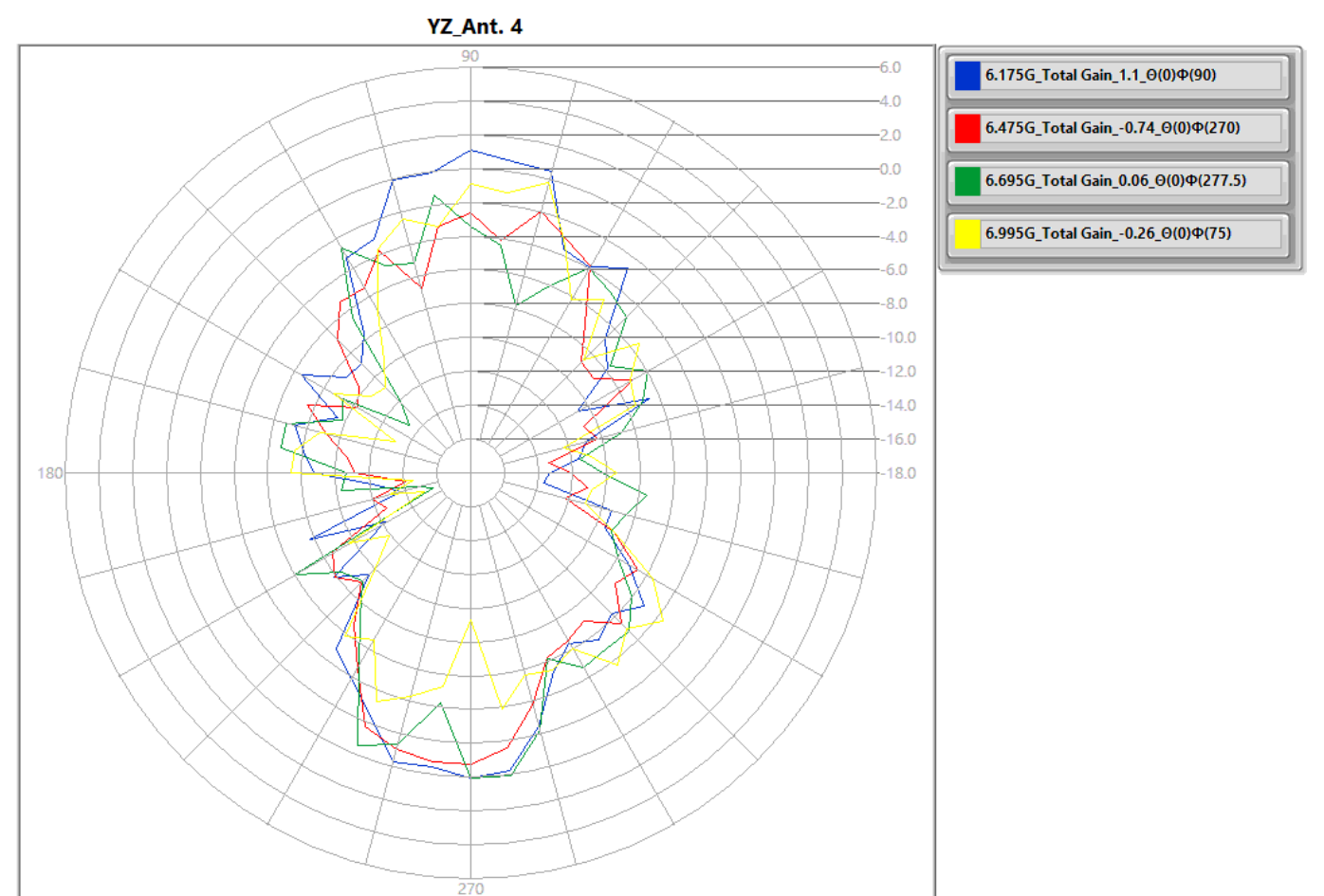
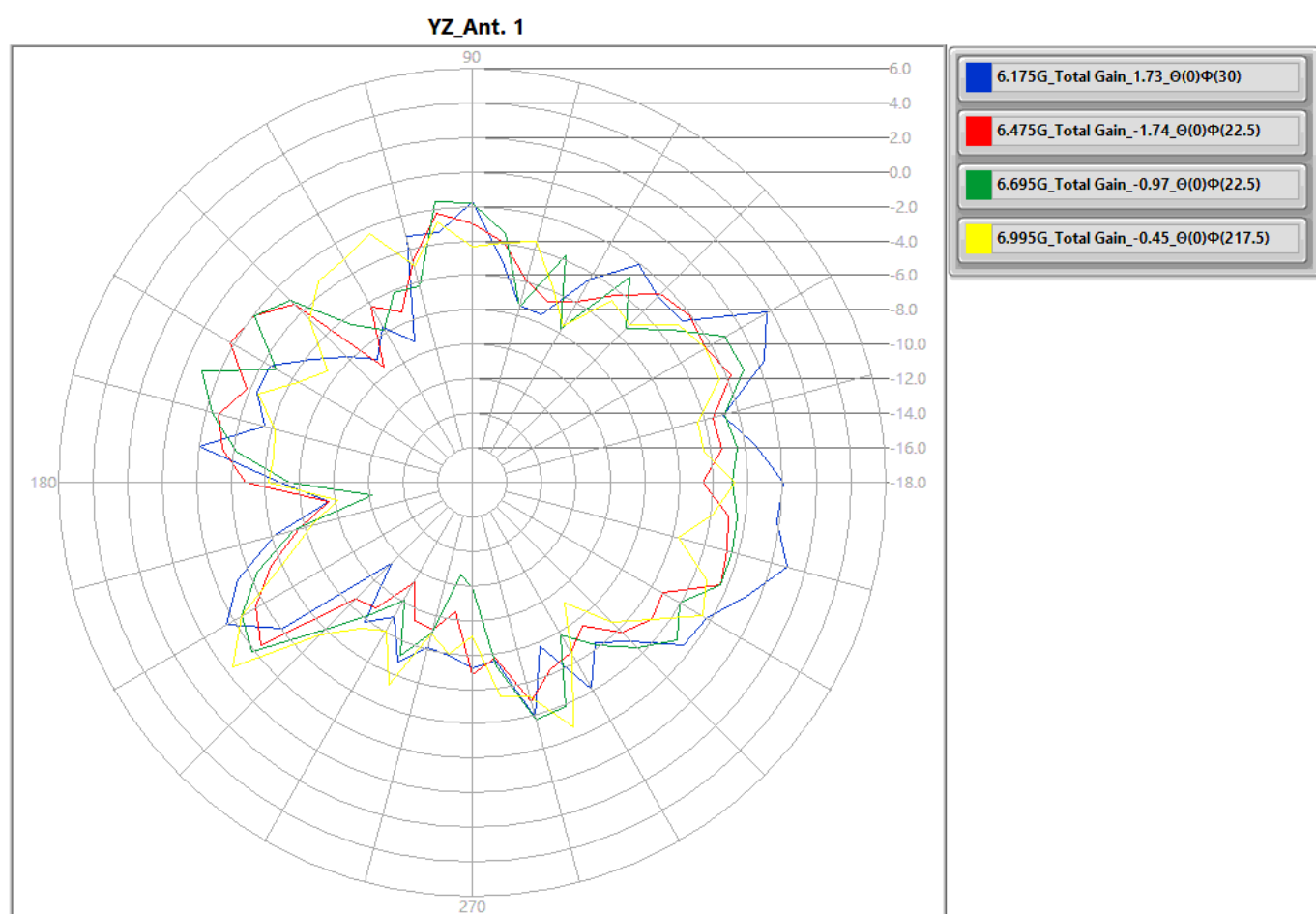
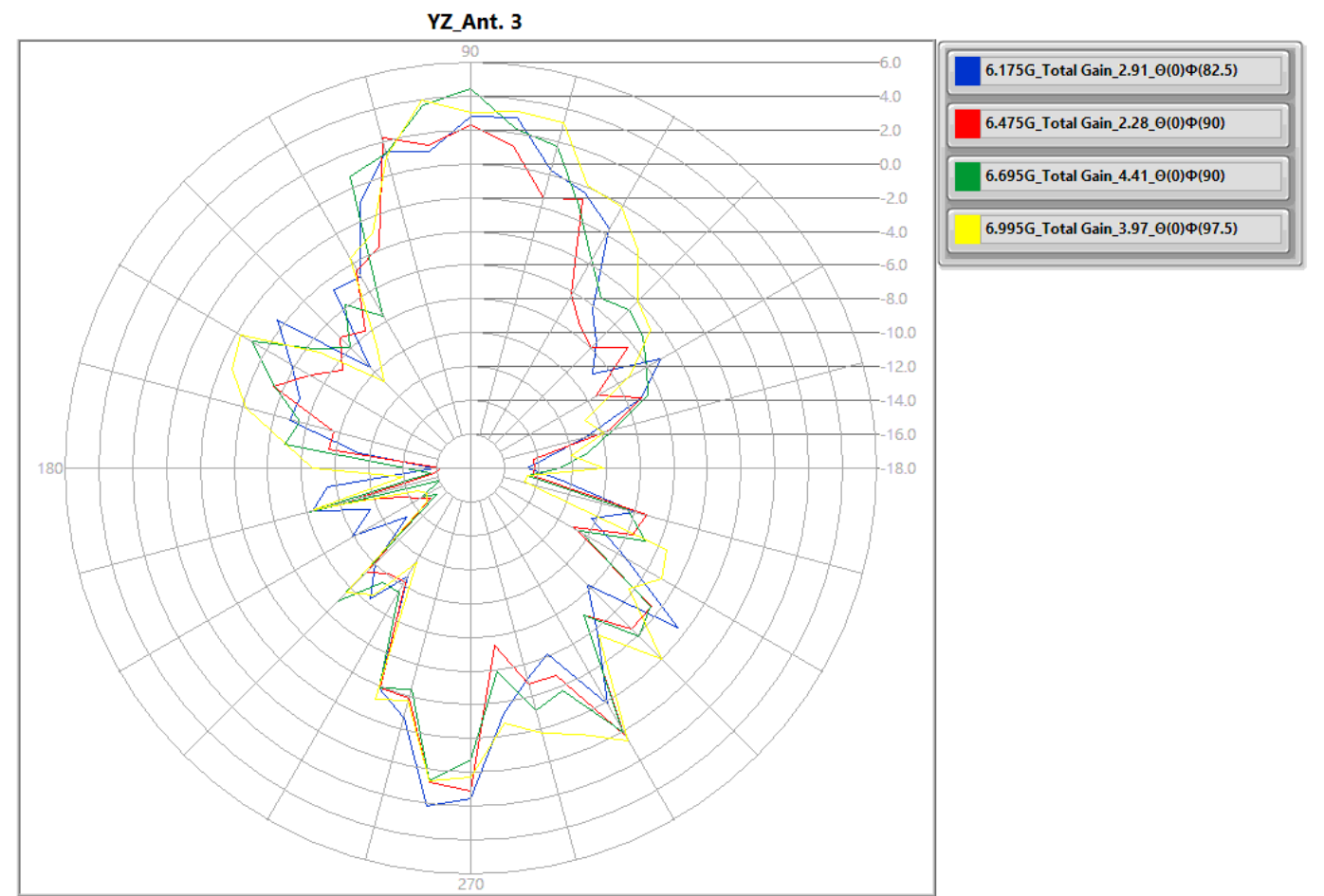
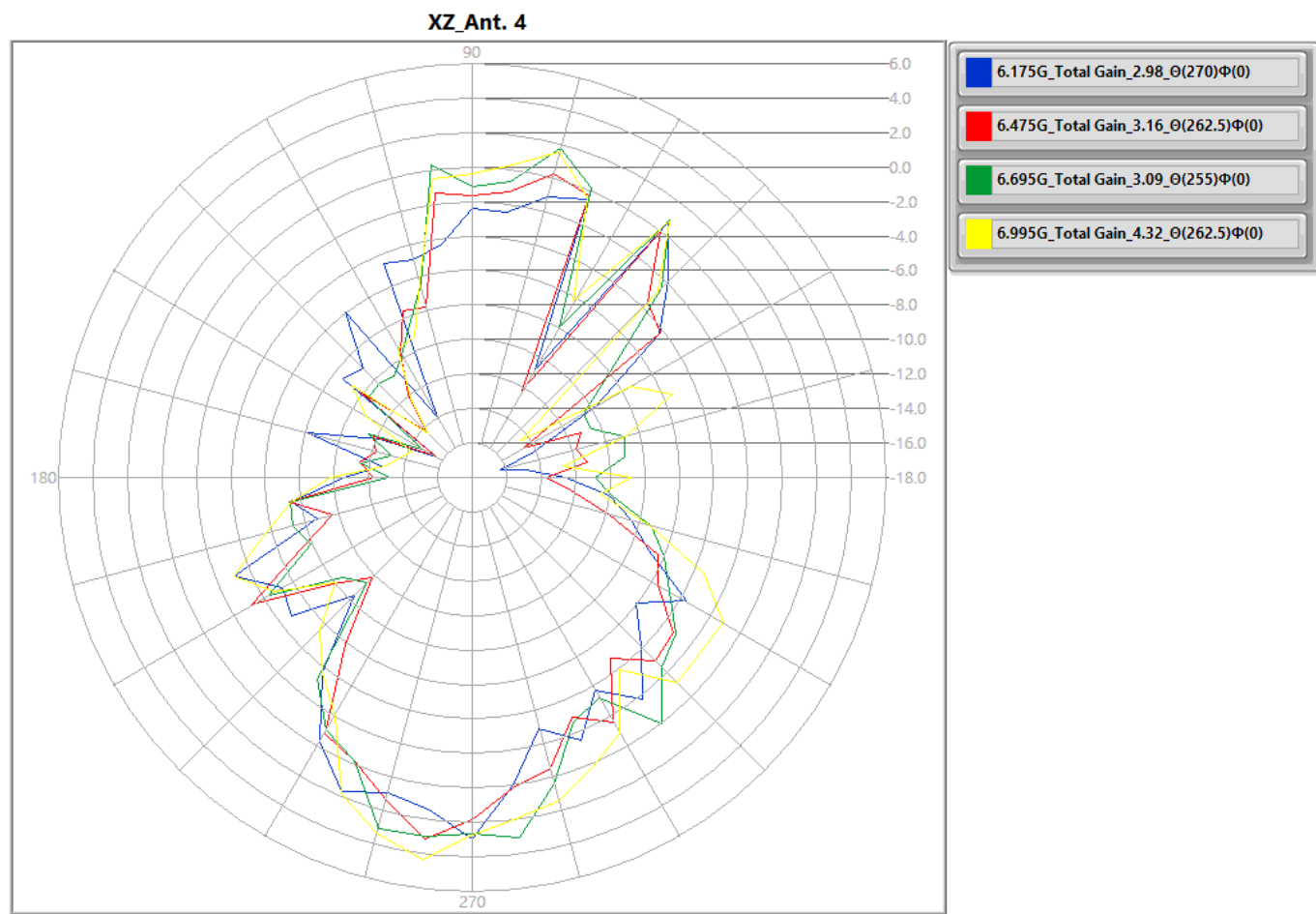
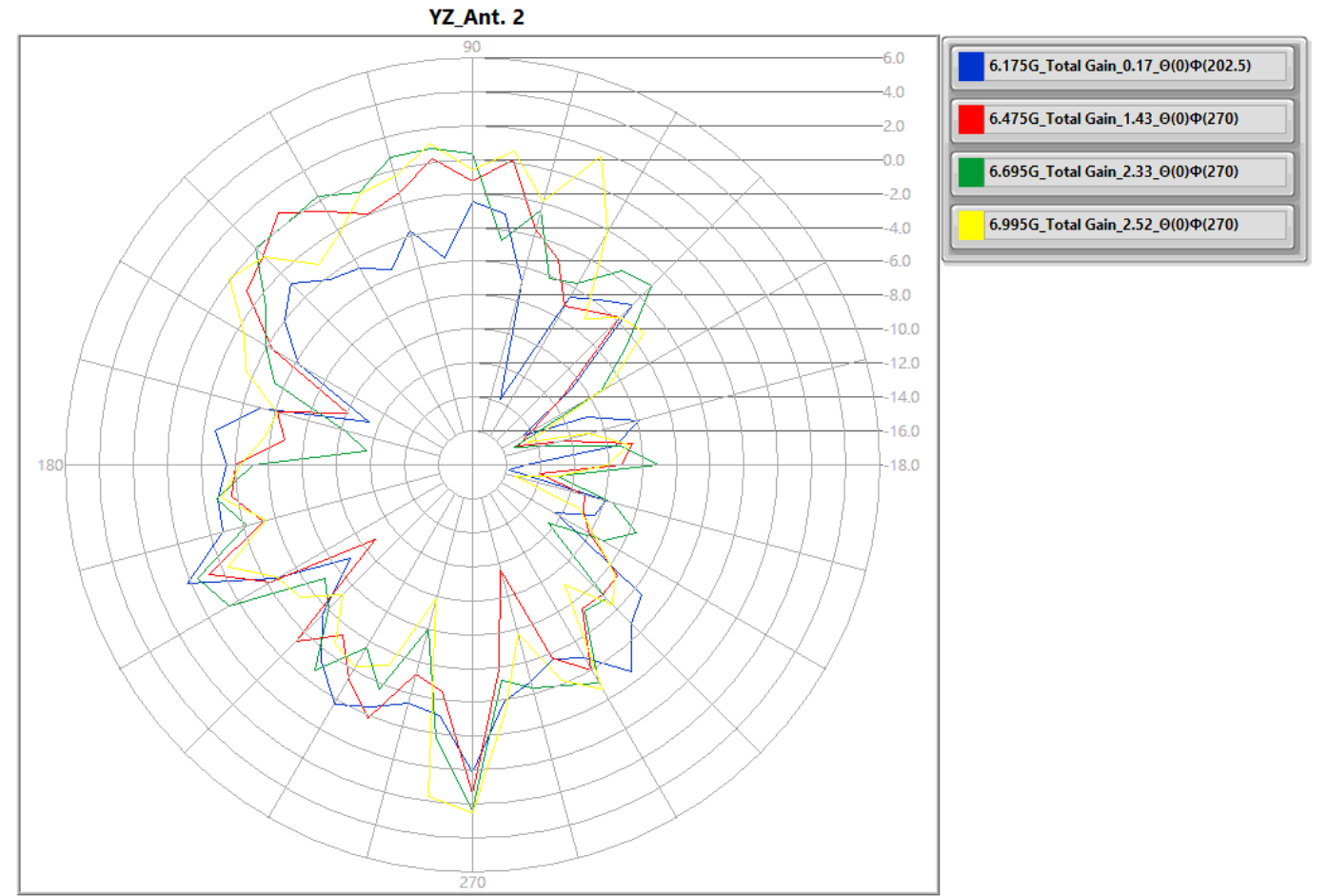
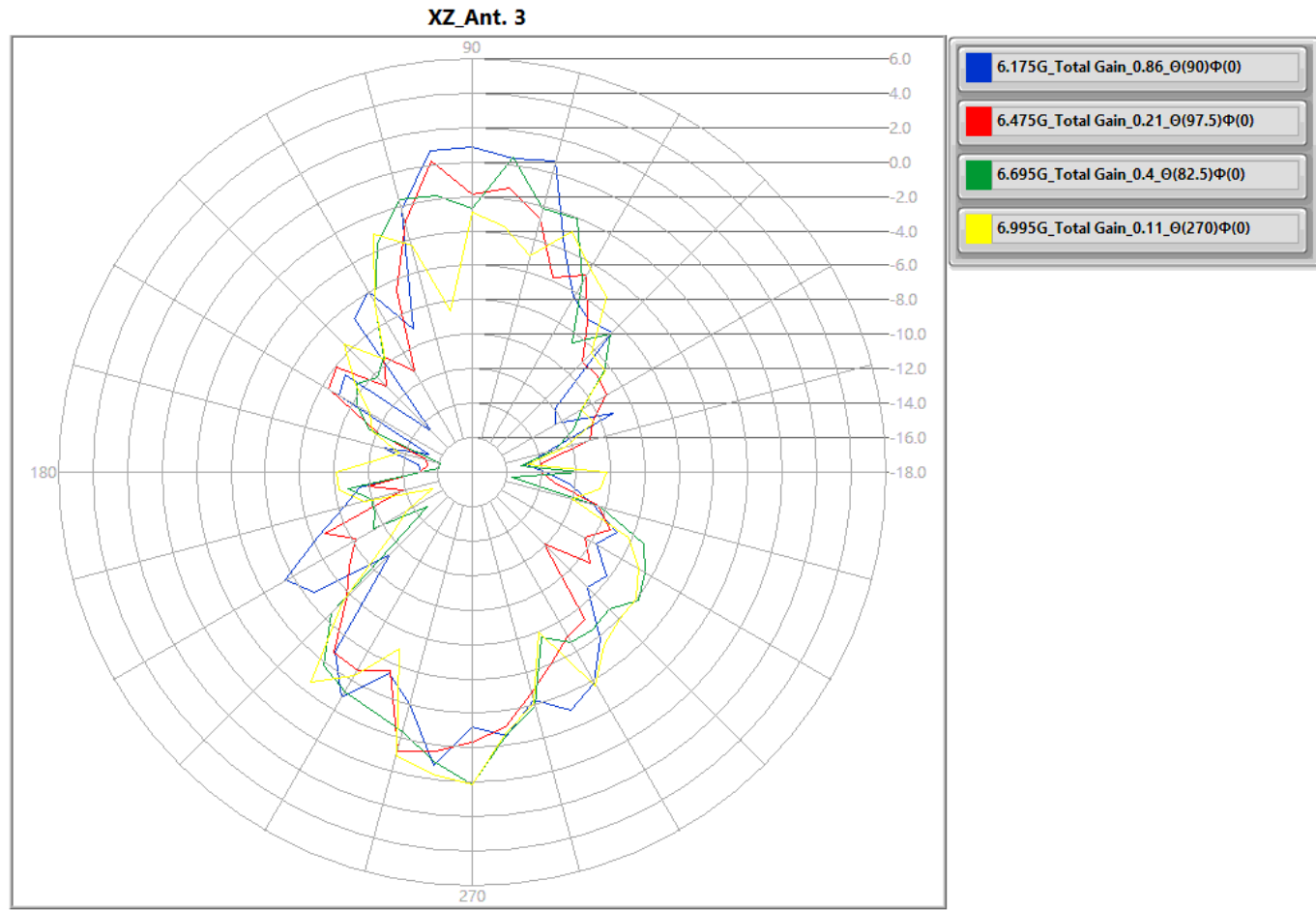
Antenna Pattern

Appendix B.5

Θ(90°)	-2.39/-1.80	-2.31/-4.54	-2.24/-7.48	-1.09/-2.27	-3.81/-5.59	0.16/-2.40	1.10/-1.66	0.65/-2.90	-2.60/-2.22	4.67/4.69	0.69/2.87	3.80/4.04	2.98/3.86	1.11/0.80	0.63/0.06	2.24/-0.46	0.17/0.16	-5.05/-8.81	0.04/-0.64	-5.11/-2.07	-0.76/0.70	0.43/0.09	-3.35/-1.72	-2.00/-2.87
Θ(97.5°)	-4.37/-3.72	-2.18/-4.33	-3.08/-5.21	-2.00/-3.87	-3.08/-5.78	0.14/-3.50	-0.11/-0.60	0.33/-0.24	-1.62/-1.29	0.82/3.81	2.06/3.05	3.13/3.69	1.43/3.03	2.75/0.54	1.53/-1.45	0.11/-1.35	-1.96/-1.81	-1.42/-7.92	-0.48/-0.03	-7.36/-7.61	-3.61/0.29	-3.03/-1.34	-3.29/-3.15	-7.46/-3.98
Θ(105°)	-4.93/-2.67	-6.22/-10.61	-10.61/-8.64	-9.84/-9.50	-9.97/-6.40	-3.74/-4.83	-0.06/-2.07	-3.52/-0.92	0.16/-1.26	2.17/2.21	0.09/2.66	2.21/2.59	0.93/2.97	3.27/2.69	2.34/-1.94	0.76/0.89	-0.04/-1.51	-2.44/-10.96	-0.27/0.19	-6.38/-5.86	-8.03/-2.19	-1.07/-4.82	-11.17/-4.88	-9.01/-3.48
Θ(112.5°)	-4.55/-5.35	-12.62/-9.77	-0.91/-5.35	-7.11/-5.73	-8.28/-7.22	-3.17/-5.33	-3.03/-1.11	-4.74/-4.92	-2.30/-1.76	1.86/3.79	0.83/0.66	0.56/-1.37	1.73/2.82	-3.15/-0.11	0.97/2.24	0.12/-1.35	-1.73/0.95	-2.46/-15.59	-2.49/-1.03	-4.63/-4.00	-4.29/0.84	1.25/-4.02	-3.10/-9.36	-4.12/-6.62
Θ(120°)	-13.98/-10.29	-12.27/-9.43	-6.02/-10.74	-5.64/-6.80	-3.74/-4.76	-4.59/-5.79	-3.33/-6.69	-3.71/-3.76	-5.63/-2.82	-3.09/-0.36	-0.93/-1.21	-1.01/-1.15	-0.33/0.12	-1.04/-0.87	0.19/-1.39	-0.17/-0.49	-3.06/-1.22	-2.86/-6.81	-3.90/-1.20	-13.74/-9.82	-5.97/-2.98	-0.92/-4.22	-0.65/-7.58	-3.23/-8.31
Θ(127.5°)	-5.92/-5.57	-12.49/-12.88	-5.90/-7.35	-12.14/-14.66	-7.32/-7.59	-7.30/-7.48	-7.64/-4.58	-4.07/-4.71	-3.46/-2.40	-4.27/-12.16	-5.74/-2.85	-2.11/-3.23	-3.74/-2.65	-1.21/-1.10	-2.86/-5.29	-3.11/-3.14	-0.23/-3.29	-6.00/-12.00	-4.92/-3.20	-10.25/-5.54	-5.87/-5.86	-15.41/-6.89	-5.91/-8.68	-8.85/-6.04
Θ(135°)	-9.03/-14.60	-12.90/-14.34	-12.96/-10.59	-7.45/-14.20	-14.27/-15.19	-12.78/-7.89	-8.84/-7.02	-6.80/-7.94	-6.56/-5.98	-3.73/-4.15	-6.94/-6.13	-4.59/-8.37	-8.34/-6.93	-4.87/-7.94	-7.56/-8.33	-11.43/-5.16	-5.43/-4.68	-8.10/-6.30	-9.49/-6.27	-7.56/-9.94	-7.82/-9.36	-7.99/-7.47	-7.72/-9.31	-13.35/-9.56
Θ(142.5°)	-8.56/-8.10	-12.51/-14.97	-9.71/-8.65	-9.71/-11.02	-11.12/-7.99	-8.13/-11.04	-8.73/-8.82	-7.81/-10.66	-11.93/-8.81	-5.57/-7.77	-4.92/-4.58	-6.39/-5.11	-4.78/-6.30	-6.33/-7.23	-4.13/-3.36	-5.06/-7.55	-5.27/-7.63	-13.11/-5.84	-7.83/-13.84	-15.53/-12.90	-12.11/-6.94	-8.72/-10.64	-13.43/-15.23	-14.64/-9.85
Θ(150°)	-15.57/-11.35	-7.89/-13.27	-10.54/-8.86	-8.34/-10.68	-14.72/-13.06	-11.47/-5.42	-6.40/-8.88	-7.24/-13.66	-8.77/-10.04	-9.72/-9.08	-9.05/-6.54	-5.91/-4.72	-5.27/-5.85	-6.68/-4.85	-3.93/-2.05	-3.66/-5.25	-5.02/-11.60	-7.98/-9.40	-12.18/-10.76	-9.13/-7.41	-15.46/-11.34	-9.13/-10.79	-14.84/-12.41	-13.99/-14.43
Θ(157.5°)	-12.19/-13.52	-15.75/-14.51	-13.34/-14.95	-13.80/-13.54	-14.46/-15.07	-13.69/-11.02	-9.48/-6.37	-7.98/-9.68	-5.17/-5.64	-10.10/-10.49	-9.83/-9.06	-5.25/-3.52	-3.03/-3.45	-4.84/-5.53	-6.45/-4.45	-4.22/-2.42	-3.52/-7.82	-11.35/-13.47	-7.69/-7.98	-11.85/-13.47	-15.87/-15.15	-15.41/-16.31	-14.93/-13.61	-10.84/-10.48
Θ(165°)	-8.07/-10.04	-13.33/-15.98	-12.92/-11.67	-11.38/-10.07	-8.24/-8.55	-9.16/-9.06	-7.20/-5.16	-4.06/-4.34	-4.81/-7.29	-10.50/-9.26	-7.36/-6.93	-7.81/-9.71	-8.70/-8.58	-6.31/-6.14	-7.19/-7.78	-7.72/-5.99	-6.75/-8.83	-13.61/-14.33	-13.66/-14.97	-15.78/-13.33	-13.23/-12.22	-10.09/-10.10	-8.15/-7.23	-7.37/-8.55
Θ(172.5°)	-12.70/-12.58	-11.94/-10.44	-11.28/-11.92	-12.62/-12.51	-11.43/-9.08	-8.56/-8.23	-8.05/-7.60	-6.84/-6.77	-7.00/-6.84	-6.64/-6.47	-6.04/-4.82	-4.34/-5.76	-7.43/-8.96	-9.68/-10.29	-10.68/-11.27	-9.44/-10.49	-14.73/-14.38	-13.65/-13.75	-12.43/-11.08	-9.99/-9.47	-12.79/-14.21	-11.80/-10.73	-11.25/-13.01	-12.97/-13.40
Θ(180°)	-10.57/-9.89	-9.85/-10.41	-10.69/-10.05	-9.18/-8.94	-8.48/-7.24	-7.95/-8.47	-8.73/-9.18	-10.18/-11.42	-10.57/-10.76	-9.93/-9.74	-9.48/-10.29	-10.20/-10.30	-8.88/-9.48	-11.47/-11.22	-11.91/-11.12	-10.60/-11.64	-12.53/-10.37	-10.56/-11.94	-10.78/-9.65	-10.21/-13.85	-14.35/-11.49	-10.89/-9.04	-9.33/-10.55	-10.11/-10.41
Freq(Hz)	6.475GPol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-13.68/-12.27	-12.10/-12.18	-12.39/-12.86	-12.18/-12.36	-12.44/-12.48	-12.38/-12.40	-12.02/-11.59	-10.77/-10.95	-10.14/-10.78	-11.57/-11.12	-10.81/-12.71	-10.98/-10.97	-10.64/-11.73	-10.84/-11.11	-11.25/-10.29	-10.70/-12.45	-10.94/-9.89	-9.73/-11.03	-11.67/-9.65	-8.39/-9.59	-10.46/-9.19	-10.53/-10.72	-13.28/-12.37	-14.19/-12.64
Θ(7.5°)	-11.24/-12.41	-11.07/-10.97	-11.87/-9.25	-9.29/-11.07	-11.39/-10.92	-11.88/-12.46	-13.32/-12.18	-11.60/-11.51	-12.35/-12.64	-12.44/-12.79	-11.82/-11.16	-11.17/-11.13	-12.23/-11.01	-11.53/-11.83	-12.31/-11.96	-13.76/-12.98	-11.23/-11.69	-11.56/-12.13	-11.01/-10.22	-10.34/-11.86	-11.75/-8.22	-10.10/-11.75	-8.64/-10.56	-10.46/-11.93
Θ(15°)	-11.75/-12.85	-13.10/-12.38	-11.09/-11.03	-10.92/-10.38	-11.67/-11.13	-13.23/-11.34	-10.25/-10.23	-9.83/-10.62	-10.35/-9.09	-8.64/-7.23	-7.73/-8.56	-9.05/-10.09	-9.80/-10.96	-8.33/-9.41	-7.75/-10.16	-6.87/-7.65	-9.35/-8.14	-8.72/-9.88	-12.23/-12.34	-10.89/-9.74	-8.26/-10.04	-11.98/-11.26	-9.81/-8.15	-9.21/-10.06
Θ(22.5°)	-11.19/-10.55	-9.65/-9.36	-9.97/-11.51	-8.53/-6.36	-7.17/-9.21	-9.73/-10.13	-10.80/-8.76	-7.69/-8.66	-8.87/-7.27	-6.14/-7.00	-7.62/-7.95	-7.23/-6.28	-6.30/-5.79	-5.83/-5.78	-5.75/-6.46	-6.70/-7.21	-5.93/-5.73	-6.99/-8.44	-8.86/-8.99	-8.57/-8.57	-8.03/-9.44	-9.32/-9.52	-10.08/-10.85	-12.52/-11.50
Θ(30°)	-14.61/-15.06	-15.07/-16.11	-16.03/-15.27	-13.64/-13.97	-13.67/-11.79	-12.99/-8.57	-6.95/-7.79	-6.80/-5.84	-7.03/-6.26	-6.63/-6.65	-4.85/-4.04	-4.99/-5.83	-5.53/-5.86	-5.09/-4.75	-5.13/-5.69	-5.47/-4.80	-5.70/-2.29	-8.23/-7.85	-6.57/-6.69	-8.11/-8.98	-9.01/-9.09	-7.99/-10.52	-12.42/-11.07	-12.95/-12.57
Θ(37.5°)	-12.20/-13.61	-8.36/-8.30	-14.32/-4.98	-10.08/-12.02	-9.20/-8.54	-5.50/-7.32	-3.83/-5.23	-6.18/-4.55	-8.09/-2.03	-3.92/-2.23	-4.33/-2.56	-1.80/-1.30	-1.59/-1.77	-4.28/-3.93	-5.25/-4.68	-4.06/-5.68	-4.92/-5.72	-6.54/-7.46	-8.69/-9.96	-6.40/-6.66	-8.63/-9.74	-11.57/-9.97	-13.67/-11.92	-6.89/-4.72
Θ(45°)	-3.59/-1.47	0.48/0.18	-0.77/-0.95	-0.96/-3.27	-5.63/-6.03	-6.32/-6.39	-8.74/-4.90	-5.22/-4.75	-4.24/-3.21	-4.03/-2.81	-3.28/-4.04	-4.12/-4.03	-2.97/-4.31	-2.99/-4.75	-4.06/-4.39	-3.56/-3.96	-5.03/-3.86	-6.09/-4.83	-5.41/-4.17	-4.74/-4.69	-5.68/-4.92	-8.32/-3.49	-2.04/-3.05	-2.63/-1.58
Θ(52.5°)	-0.00/-0.16	-2.20/-2.59	-1.77/-2.96	-2.67/-3.60	-1.86/-3.99	-3.75/-3.96	-8.82/-2.76	-7.20/-3.21	-4.80/-5.20	-5.68/-2.95	-6.27/-6.25	-4.82/-3.51	-1.47/-1.96	-2.84/-3.57	-2.47/-3.40	-9.29/-3.93	-6.97/-6.82	-9.46/-9.67	-6.40/-6.68	-9.00/-3.36	-4.30/-3.36	-4.30/-3.35	-0.47/-2.30	-0.47/-2.30
Θ(60°)	-12.20/-13.61	-8.36/-8.30	-14.32/-4.98	-10.08/-12.02	-9.20/-8.54	-5.50/-7.32	-3.83/-5.23	-6.18/-4.55	-8.09/-2.03	-3.92/-2.23	-4.33/-2.56	-1.80/-1.30	-1.59/-1.77	-4.28/-3.93	-5.25/-4.68	-4.06/-5.68	-4.92/-5.72	-6.54/-7.46	-8.69/-9.96	-6.40/-6.66	-8.63/-9.74	-11.57/-9.97	-13.67/-11.92	-6.89/-4.72
Θ(67.5°)	-0.28/-1.73	-3.34/-3.54	-1.32/-3.90	-4.83/-5.58	-3.37/-6.64	-3.80/-6.21	-3.12/-5.88	-4.33/-5.10	-3.91/-2.46	-3.97/-3.85	-0.90/-0.97	-2.27/-3.51	-2.94/0.33	-2.86/-3.84	-2.74/-4.02	-5.07/-2.56	-8.08/-6.85	-6.00/-8.22	-6.16/-6.65	-5.99/-9.20	-6.28/-9.76	-10.91/-7.98	-4.17/-4.94	-4.11/-0.80
Θ(75°)	0.24/-1.66	-1.43/-1.52	-1.93/-1.59	-2.38/-6.85	-3.29/-5.56	-3.23/-2.98	-1.97/-3.85	-3.25/-3.67	-1.66/-1.87	-0.13/0.21	-0.38/0.40	-0.57/0.62	-1.76/-0.89	-0.57/0.62	-1.86/-1.36	-3.03/-1.75	-1.55/-5.23	-9.01/-3.91	-3.80/-2.40	-5.95/-12.30	-7.60/-6.67	-4.47/-3.95	-2.61/-3.69	-6.43/-2.04
Θ(82.5°)	-1.29/-3.04	-1.49/-0.33	-2.57/-2.98	-0.71/-4.93	-5.22/-8.12	-1.28/-3.75	-4.10/-2.36	-2.21/-0.72	-0.91/0.10	-1.04/0.23	-0.98/0.04	2.99/0.23	0.15/0.89	1.86/-1.31	-0.71/-0.26	-1.27/-1.35	-3.29/-6.08	-1.62/-1.37	-1.74/-10.38	-3.57/-2.81	-1.07/-2.70	-4.82/-4.60	-8.43/-1.26	-8.43/-1.26
Θ(90°)	-1.69/-2.33	-2.66/-3.12	-4.04/-7.75	-1.35/-5.06	-6.54/-7.66	-0.54/-4.60	-2.62/-1.03	-4.67/-2.27	-2.46/2.93	1.13/-1.41	0.94/-1.33	2.60/0.98	1.81/-1.47	2.45/-1.28	1.43/-1.12	-0.85/0.48	-3.80/-1.54	-1.70/-7.15	-0.74/-4.57	-3.96/-6.44	-0.20/-2.09	0.53/-1.69	-7.56/-5.22	-6.87/-1.83
Θ(97.5°)	-1.35/-6.92	-4.84/-3.26	-4.54/-10.41	-2.33/-4.74	-9.67/-6.19	-1.62/-8.34	-3.31/-0.34	-3.21/-1.78	-3.36/-1.17	1.24/0.20	1.80/0.05	3.13/-1.20	3.16/3.79	1.31/0.94	1.91/0.08	-0.85/-0.13	-3.45/-0.27	-3.41/-1.78	-0.77/-7.78	-3.74/-8.16	-4.73/-5.53	-1.23/-2.38	-3.70/-6.67	-10.89/-6.13
Θ(105°)	-7.76/-5.55	-7.75/-9.00	-9.92/-12.76	-5.83/-12.57	-12.55/-8.26	-3.61/-7.24	-6.73/-2.85	-5.42/-2.05	-1.03/0.57	0.38/-2.10	-0.80/-1.19	2.06/-1.09	1.37/-2.22	2.69/0.21	2.07/2.47	-0.68/-0.24	-2.21/-0.71	-3.39/-7.31	-1.11/-2.56	-4.68/-8.16	-10.91/-3.48	-1.50/-7.70	-12.56/-4.13	-14.67/-3.86
Θ(112.5°)	-7.53/-7.27	-8.56/-9.10	-3.63/-6.14	-8.31/-9.26	-12.24/-7.37	-5.53/-8.16	-3.38/-3.18	-6.54/-6.77	-3.17/-0.12	1.11/-2.00	-0.76/-1.71	1.57/-2.28	-0.10/0.63	2.71/-1.40	-0.88/0.59	-3.35/-0.68	-4.54/-2.18	-3.86/-12.98	-1.74/-1.04	-5.56/-4.01	-10.81/-0.70	-0.43/-4.52	-8.67/-6.58	-7.88/-8.98
Θ(120°)	-9.69/-12.80	-15.04/-12.91	-6.57/-8.30	-10.63/-6.59	-7.62/-5.89	-5.18/-9.58	-5.43/-3.62	-5.33/-4.50	-8.02/-3.01	-1.87/-1.80	-0.94/-0.50	-0.08/-2.02	-0.85/-1.29	-3.24/-0.83	-2.19/-1.13	-0.38/-1.32	-6.27/0.08	-3.32/-13.72	-4.64/-3.93	-11.79/-13.71	-6.68/-2.95	-2.69/-6.56	-2.66/-6.85	-4.70/-7.35
Θ(127.5°)	-11.90/-8.53	-10.37/-9.63	-6.95/-8.09	-10.27/-13.94	-12.29/-8.78	-6.67/-6.05	-5.26/-7.48	-6.79/-4.63	-6.19/-7.49	-9.86/-6.19	-5.94/-6.27	-4.18/-2.57	-5.87/-2.88	-5.82/-3.79	-5.35/-4.56	-2.78/-5.93	-4.93/-3.60	-10.53/-14.09	-6.69/-6.14	-10.99/-15.53	-12.13/-4.70	-12.83/-9.29	-7.07/-10.93	-9.36/-5.85
Θ(135°)	-14.17/-13.20	-13.57/-15.22	-12.99/-10.45	-7.55/-10.74	-11.27/-14.17	-9.93/-8.91	-6.22/-10.62	-8.95/-7.01	-9.46/-5.39	-7.39/-9.69	-6.36/-5.98	-6.39/-8.60	-6.80/-7.32	-4.50/-4.13	-13.86/-12.28	-7.17/-6.69	-6.60/-6.83	-8.78/-9.99	-8.83/-8.20	-10.70/-11.42	-12.05/-9.39	-11.77/-12.83	-12.52/-9.98	-9.16/-11.37
Θ(142.5°)																								

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

Appendix B.6

Mode 6

Total Gain Data

Freq(Hz)	6.175G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-0.57/-0.44	0.13/0.09	-0.19/-0.44	-0.52/-0.81	-0.36/-0.76	-1.14/-0.51	0.05/-0.41	-0.85/-1.03	-0.59/-0.16	-0.03/0.35	-0.27/-0.45	0.23/-0.19	0.70/0.39	0.21/0.17	-0.12/0.08	0.04/-0.43	-0.20/-0.17	-0.32/-0.50	-0.26/-0.27	-0.50/-0.63	-0.41/-0.23	-0.02/-0.25	-0.18/-0.36	-0.40/-0.21
Θ(7.5°)	-0.65/-0.82	-0.79/-0.60	-0.44/-0.55	-0.76/-1.09	-1.68/-0.60	-1.81/-2.38	-1.41/-1.11	-1.72/-1.89	-1.37/-1.07	-0.56/-0.06	0.23/0.29	0.74/0.86	0.78/0.93	0.16/0.59	0.47/0.58	0.38/0.66	0.42/0.21	-0.42/-0.36	-0.15/-0.42	-0.47/-0.42	-0.48/-0.36	-0.51/-0.44	-0.27/-0.45	-0.80/-0.64
Θ(15°)	-1.42/-2.15	-3.35/-4.21	-4.32/-3.90	-4.57/-3.74	-2.18/-2.46	-2.54/-2.72	-2.96/-1.73	-1.44/-1.26	-1.06/-0.80	-0.65/-0.50	0.40/0.58	0.46/0.41	0.75/0.97	1.26/1.23	0.79/0.13	-0.96/-1.03	-0.82/0.19	0.77/0.57	0.92/1.03	1.68/1.80	1.80/1.38	0.70/0.08	-0.52/-0.66	-0.79/-1.29
Θ(22.5°)	-2.80/-4.75	-6.88/-8.07	-5.50/-3.41	-2.34/-2.03	-2.48/-1.06	-0.59/-0.66	0.35/-0.22	-0.99/-1.06	-1.49/-1.68	-0.73/-0.45	0.65/-1.45	1.14/-1.18	1.32/-1.24	0.97/-0.59	-2.48/-3.34	-3.88/-3.61	-3.68/-2.35	-1.81/-1.65	-0.81/-0.16	0.90/-1.77	2.60/2.56	1.95/-1.11	0.35/0.29	-0.13/-1.61
Θ(30°)	-5.47/-5.96	-6.51/-10.66	-6.14/-2.98	-0.88/-0.57	-1.75/-1.34	0.01/-1.13	1.73/-0.14	-0.70/-0.12	0.18/-0.22	0.47/-1.17	0.96/0.77	-0.31/-0.45	-0.24/0.81	-0.22/-0.88	-1.76/-3.02	-1.69/-2.47	-3.37/-2.91	-2.26/-3.09	-3.46/-2.76	-0.43/-1.01	1.29/0.64	0.54/0.09	-1.57/-3.96	
Θ(37.5°)	-8.88/-8.15	-9.97/-11.76	-7.55/-1.44	0.16/-1.29	1.38/-1.93	-1.21/-1.17	-2.63/-4.23	-2.58/-1.64	-1.13/-0.91	-1.34/-0.13	-0.96/-0.73	-0.45/-0.11	0.38/0.83	0.76/-0.04	-1.22/-1.55	-1.65/-2.76	-3.36/-2.57	-2.91/-3.72	-2.53/-2.58	-1.40/-2.00	-0.78/-0.16	0.13/0.08	0.54/0.43	-0.74/-0.47
Θ(45°)	-1.70/-9.29	-7.19/-7.12	-3.93/0.14	0.40/0.56	1.15/0.21	-1.24/-1.01	-2.77/-2.49	-3.09/-4.06	-1.71/-1.32	-0.51/-1.00	0.39/0.23	-1.46/-2.64	-1.48/-1.30	-0.89/-0.84	-0.93/-1.66	-2.07/-4.34	-6.61/-9.60	-7.20/-5.59	-4.98/-1.28	0.16/0.12	0.75/0.43	0.02/-0.14	0.13/0.26	-0.72/-5.54
Θ(52.5°)	-6.94/-6.42	-5.98/-5.48	-2.10/-1.26	-0.08/-0.23	-1.59/-2.57	-2.56/-2.29	-2.12/-2.19	-2.58/-1.54	0.06/0.40	0.03/-2.07	-1.31/-1.16	-2.80/-4.17	-2.58/-1.47	-1.18/-2.84	-3.47/-3.13	-3.45/-4.56	-6.43/-12.22	-14.09/-10.68	-6.31/-3.32	-0.28/0.98	0.71/0.52	0.05/-0.79	-1.91/-1.35	-3.05/-4.69
Θ(60°)	-5.70/-3.33	-3.02/-3.40	-0.07/-1.99	-0.35/-1.27	-5.08/-2.91	-3.73/-4.79	-4.46/-4.28	-4.03/-2.10	-1.06/-1.08	-1.33/-1.23	-1.22/-3.18	-3.61/-3.19	-4.49/-2.79	-3.58/-5.25	-4.76/-5.63	-7.71/-12.88	-10.91/-6.91	-6.37/-7.38	-4.22/-3.62	-3.79/-1.75	-0.55/0.11	0.46/0.46	-0.87/-2.63	-2.94/-4.85
Θ(67.5°)	-4.64/-3.03	-2.38/-2.84	0.35/-2.74	-1.30/-3.67	-4.23/-6.91	-5.71/-5.12	-7.47/-3.06	-6.62/-12.55	-5.04/-2.43	-4.10/-4.46	-4.05/-6.36	-8.40/-7.49	-7.68/-2.84	-2.66/-3.24	-4.79/-7.79	-6.88/-6.90	-7.94/-6.51	-5.04/-7.64	-7.74/-4.47	-4.00/-1.61	-3.62/0.13	0.35/0.91	0.50/-0.12	-3.55/-4.44
Θ(75°)	-3.70/-1.48	-0.48/-1.10	0.97/-1.04	-3.56/-8.42	-6.86/-7.03	-7.14/-6.45	-7.37/-5.72	-8.14/-13.50	-12.98/-9.60	-3.77/-3.62	-5.36/-1.62	-8.94/-12.09	-14.69/-6.79	-7.19/-3.95	-7.99/-3.60	-5.61/-9.16	-4.69/-4.11	-3.06/-9.68	-3.95/-5.19	-1.05/-2.99	-2.72/0.41	0.31/0.16	1.48/0.07	-1.43/-2.37
Θ(82.5°)	-2.50/-2.67	-0.50/-0.28	1.38/-0.33	-2.34/-7.60	-6.27/-12.93	-4.13/-4.56	-4.92/-4.25	-7.45/-3.96	-13.07/-12.48	-7.03/-7.95	-5.56/-11.82	-4.49/-12.97	-9.47/-4.96	-14.31/-4.62	-6.66/-5.53	-5.28/-5.63	-4.55/-7.00	-8.60/-10.12	-7.55/-9.49	-3.32/-5.74	-5.13/-0.15	0.45/2.84	1.52/-0.29	-0.98/-1.28
Θ(90°)	-2.72/-3.28	-0.14/-0.40	1.56/0.39	-3.44/-4.03	-8.16/-6.32	-4.15/-5.43	-1.72/-5.40	-4.84/-3.45	-13.34/-13.57	-7.58/-7.76	-6.20/-12.33	-12.30/-11.16	-14.10/-11.82	-13.97/-13.81	-9.70/-8.23	-6.55/-9.34	-9.53/-9.18	-7.91/-11.18	-7.21/-4.66	-4.43/-4.27	-1.74/-2.40	0.69/0.09	2.63/0.97	-0.37/-2.43
Θ(97.5°)	-1.31/-1.86	0.93/-1.64	2.00/1.08	0.28/-1.44	-4.85/-6.80	-5.69/-3.13	-3.77/-2.86	-4.81/-4.01	-8.15/-9.03	-11.59/-15.13	-7.58/-12.29	-12.66/-6.84	-11.60/-11.39	-9.90/-12.53	-10.84/-9.48	-13.56/-12.97	-8.45/-14.43	-14.05/-3.70	-7.90/-9.92	-3.49/-2.07	-1.06/-1.04	0.91/2.94	1.64/-1.07	0.82/-0.60
Θ(105°)	-0.11/-2.48	-0.98/-1.45	1.17/1.46	1.40/-2.11	-2.57/-5.89	-5.60/-3.11	-3.25/-6.01	-1.86/-5.60	-9.63/-7.46	-1.45/-14.79	-15.63/-11.00	-14.41/-13.73	-13.00/-12.04	-9.86/-7.69	-15.20/-9.07	-8.04/-9.51	-7.10/-11.33	-14.30/-10.51	-8.04/-5.63	-6.40/-1.75	1.01/-1.15	1.23/2.45	2.05/-1.51	0.87/0.53
Θ(112.5°)	0.74/-1.59	-0.47/-2.21	0.19/2.44	1.39/-0.11	-3.70/-3.85	-4.81/-5.77	-9.19/-4.12	-1.76/-7.84	-6.86/-10.68	-11.71/-12.33	-14.66/-8.61	-11.52/-14.96	-14.35/-11.76	-8.12/-7.35	-15.25/-8.12	-10.55/-8.23	-3.57/-6.88	-8.13/-9.47	-6.76/-8.79	-9.54/-1.93	1.06/-0.26	2.27/2.33	2.56/2.10	0.42/0.84
Θ(120°)	0.74/-0.38	-0.97/-2.22	-0.38/0.73	1.72/-0.20	-1.00/-4.11	-1.26/-4.38	-7.61/-2.72	-5.51/-9.84	-5.68/-12.23	-14.04/-8.82	-8.63/-8.87	-9.65/-10.74	-8.42/-8.84	-11.00/-9.00	-12.67/-12.52	-6.28/-10.42	-8.75/-9.62	-12.55/-6.69	-9.00/-9.61	-10.64/-3.97	-2.07/-1.16	2.62/2.67	3.45/-1.46	0.71/-1.42
Θ(127.5°)	1.89/0.40	-0.26/-0.38	-0.40/-1.09	-0.04/-1.54	-3.39/-1.83	-3.92/-4.46	-9.00/-7.60	-10.54/-12.63	-15.20/-9.82	-12.45/-8.85	-6.67/-9.72	-9.24/-8.60	-3.91/-9.61	-7.90/-9.66	-8.27/-8.01	-15.13/-11.28	-8.35/-11.70	-5.58/-6.34	-7.78/-7.27	-8.79/-8.71	-5.44/-1.58	2.02/3.11	1.97/0.65	1.13/2.35
Θ(135°)	1.61/-0.18	-1.31/-1.34	-2.61/-1.33	-1.08/-1.55	-2.90/-1.09	-2.17/-2.56	-7.70/-5.89	-9.85/-9.41	-8.82/-10.80	-7.79/-11.92	-11.07/-8.48	-10.15/-11.34	-14.03/-12.55	-8.80/-8.18	-12.66/-10.56	-12.66/-14.09	-10.08/-9.42	-6.45/-7.95	-11.23/-5.27	-4.00/-5.88	-6.44/-3.14	0.20/0.79	0.81/0.04	1.33/2.83
Θ(142.5°)	1.47/0.93	-0.17/-2.20	-3.37/-1.49	-1.51/-2.42	-4.41/-2.22	-2.26/-3.68	-6.26/-7.12	-5.04/-10.09	-9.36/-3.72	-3.87/-4.96	-6.24/-8.78	-10.41/-12.51	-10.01/-10.18	-9.41/-14.35	-13.06/-10.18	-15.36/-13.70	-10.18/-16.11	-10.36/-9.88	-4.11/-1.49	-1.89/-3.10	-4.30/-4.12	-2.18/-1.06	-1.16/-1.24	0.24/-1.49
Θ(150°)	1.63/2.13	2.06/0.59	-0.94/-1.58	-2.22/-3.92	-6.53/-8.40	-5.11/-2.31	-4.46/-6.57	-6.03/-4.23	-3.27/-4.71	-1.88/-15.82	-9.46/-8.47	-10.26/-11.41	-14.88/-13.89	-12.89/-14.09	-12.18/-9.85	-10.58/-12.66	-15.61/-11.39	-11.01/-5.12	-5.85/-1.32	-1.83/-1.82	-3.58/-3.98	-2.47/-3.11	-2.99/-1.74	-0.85/0.06
Θ(157.5°)	0.29/0.08	-0.45/-0.84	-1.41/-0.26	0.34/-0.80	-3.50/-5.13	-4.09/-3.79	-4.46/-5.11	-4.91/-5.34	-6.81/-6.70	-7.93/-9.82	-10.17/-10.68	-12.55/-15.52	-15.14/-14.48	-14.31/-10.27	-8.89/-7.71	-7.00/-8.13	-7.55/-8.15	-7.67/-4.46	-3.29/-4.22	-3.83/-3.24	-4.83/-5.55	-5.61/-4.40	-3.47/-2.55	-1.25/-0.86
Θ(165°)	-0.99/-0.67	-1.47/-2.15	-2.15/-2.68	-2.60/-2.23	-1.95/-3.21	-1.88/-4.38	-5.50/-6.99	-3.97/-6.46	-7.15/-8.88	-8.27/-8.33	-9.89/-9.92	-11.54/-11.76	-11.95/-11.68	-12.80/-11.59	-11.83/-13.16	-12.26/-10.56	-8.28/-6.43	-5.32/-5.04	-6.19/-7.29	-6.22/-5.24	-4.55/-4.22	-3.89/-3.18	-2.45/-2.06	-1.33/-1.16
Θ(172.5°)	-5.64/-7.63	-7.23/-5.89	-6.17/-3.91	-3.39/-3.60	-2.98/-2.98	-3.28/-5.65	-2.01/-2.52	-5.60/-7.64	-6.95/-6.16	-5.94/-6.55	-6.96/-7.36	-7.44/-7.71	-7.07/-8.88	-9.06/-8.32	-9.46/-10.45	-12.45/-12.16	-10.58/-9.41	-9.52/-9.68	-9.74/-8.26	-7.32/-7.29	-7.21/-6.69	-6.30/-5.90	-5.15/-5.32	
Θ(180°)	-5.64/-4.62	-4.75/-4.36	-5.39/-6.36	-6.38/-6.31	-7.26/-5.43	-3.90/-4.12	-6.87/-10.16	-8.79/-6.95	-7.46/-6.98	-8.00/-10.45	-10.27/-7.48	-6.04/-6.54	-7.47/-7.90	-7.47/-6.99	-6.56/-6.17	-5.44/-5.61	-5.63/-6.02	-5.90/-6.11	-6.56/-6.03	-5.23/-4.71	-4.79/-5.16	-5.63/-6.06	-6.11/-6.07	-6.54/-6.40
Freq(Hz)	6.475G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-3.08/-2.76	-3.19/-2.86	-2.54/-1.93	-2.75/-2.32	-2.39/-2.87	-2.53/-3.47	-4.63/-3.41	-2.74/-3.05	-3.05/-3.68	-4.72/-4.37	-3.53/-3.33	-4.23/-3.12	-3.54/-2.83	-3.33/-2.85	-2.87/-2.60	-2.59/-2.59	-3.08/-3.00	-2.88/-2.89	-2.79/-2.58	-2.73/-2.77	-3.01/-2.61	-2.49/-2.71	-2.96/-3.04	-3.04/-3.17
Θ(7.5°)	-3.66/-3.37	-3.67/-3.90	-4.13/-4.07	-3.85/-5.07	-3.29/-3.65	-3.58/-3.02	-3.41/-3.85	-2.98/-2.29	-2.11/-2.11	-2.14/-2.29	-2.15/-1.78	-2.34/-2.06	-2.22/-1.88	-2.04/-2.41	-2.34/-2.62	-2.23/-1.95	-2.13/-2.57	-2.88/-3.02	-3.01/-3.40	-3.43/-3.83	-3.35/-3.05	-3.49/-3.27	-3.74/-3.94	-3.93/-3.89
Θ(15°)	-3.95/-4.06	-6.22/-6.82	-8.02/-8.64	-7.71/-7.32	-7.45/-6.12	-5.21/-3.94	-3.57/-4.68	-3.98/-2.44	-2.54/-2.17	-2.01/-2.01	-1.68/-0.89	-0.51/0.80	-0.39/-1.01	-1.19/-2.00	-2.27/-2.69	-3.24/-2.29	-1.93/-2.81	-3.23/-3.32	-2.69/-1.77	-1.63/-1.73	-1.74/-1.87	-0.98/-0.52	-0.51/-0.94	-2.19/-3.22
Θ(22.5°)	-5.46/-9.47	-9.65/-10.94	-9.48/-7.20	-6.86/-3.36	-3.26/-3.08	-2.28/-1.22	-1.74/-2.33	-1.72/-1.25	-0.69/-0.12	0.13/0.11	0.17/0.57	0.56/1.39	1.30/0.30	-0.53/-1.42	-2.21/-3.01	-3.64/-4.67	-4.80/-5.05	-3.87/-2.96	-2.37/-1.20	-0.14/0.35	-0.07/-1.15	-2.06/-1.32	-1.07/-1.18	-1.48/-2.36
Θ(30°)	-4.21/-6.94	-7.94/-8.17	-9.76/-6.68	-7.30/-1.61	-0.53/-2.04	-1.75/-1.82	-2.42/-0.62	-0.14/-0.24	0.05/0.08	-0.89/-0.64	0.45/1.00	-0.01/-1.12	1.94/-1.56	0.85/-0.52	-1.73/-3.27	-3.18/-4.47	-5.25/-4.53	-5.38/-5.34	-5.25/-2.93	-2.15/-0.55	0.75/0.86	-0.01/-1.13	-0.91/-2.02	-2.66/-6.32
Θ(37.5°)	-4.14/-5.83	-7.87/-9.24	-6.84/-0.45	-0.47/0.37	-2.20/-2.42	-0.75/-2.13	-2.08/-2.32	-2.98/-1.40	0.18/0.99	0.96/0.16	0.20/0.71	0.81/-0.27	-0.53/-0.81	-1.00/-0.77	-0.66/-1.27	-0.28/-0.07	-3.76/-1.85	-7.66/-5.82	-4.90/-3.09	-0.34/-0.06	0.75/-			



Antenna Pattern

Appendix B.6

Θ(75°)	-14.90/-13.61	-12.40/-13.41	-12.24/-12.00	-10.86/-11.22	-9.51/-9.77	-9.25/-9.43	-9.52/-8.76	-7.13/-6.84	-9.57/-11.84	-12.22/-12.80	-14.91/-15.05	-14.32/-11.71	-14.56/-14.49	-15.09/-10.88	-12.25/-10.99	-12.82/-12.76	-13.44/-13.36	-15.16/-15.30	-15.24/-15.62	-15.19/-15.25	-14.80/-15.90	-14.94/-14.48	-14.62/-15.22	-14.81/-14.27
Θ(15°)	-14.31/-14.42	-14.64/-10.41	-9.57/-7.56	-8.07/-6.89	-10.90/-9.05	-9.00/-9.13	-7.87/-11.09	-9.08/-6.25	-6.29/-5.69	-7.50/-8.68	-8.75/-9.93	-8.17/-7.74	-9.46/-10.20	-15.16/-11.18	-11.67/-8.25	-6.35/-7.32	-6.12/-9.28	-9.70/-3.97	-9.86/-10.48	-9.58/-10.15	-8.92/-9.85	-12.82/-12.02	-13.32/-15.20	-13.01/-13.14
Θ(127.5°)	-12.83/-12.58	-8.83/-8.14	-5.91/-6.82	-5.21/-7.10	-7.24/-10.42	-12.04/-11.25	-10.68/-10.72	-10.13/-6.71	-7.57/-8.21	-8.78/-6.72	-7.54/-11.92	-6.72/-6.22	-7.74/-9.05	-6.33/-4.79	-5.23/-8.72	-8.83/-9.92	-13.16/-10.63	-6.18/-10.13	-13.73/-10.82	-9.06/-9.24	-11.25/-10.80	-11.52/-10.80	-11.57/-12.01	
Θ(30°)	-15.55/-15.79	-11.39/-8.64	-6.49/-3.55	-3.18/-1.73	-4.44/-6.33	-11.20/-11.00	-14.81/-13.57	-12.11/-13.08	-10.64/-16.06	-8.75/-8.34	-9.78/-10.55	-10.40/-11.84	-8.56/-8.77	-3.98/-3.37	-3.89/-4.74	-6.54/-7.36	-11.58/-11.37	-12.27/-11.07	-12.39/-13.70	-7.53/-4.28	-4.53/-4.51	-4.55/-6.04	-5.62/-6.38	-10.29/-11.35
Θ(37.5°)	-11.35/-12.04	-7.72/-7.16	-5.36/-3.62	-3.45/-2.62	-6.89/-11.64	-14.09/-15.76	-14.68/-11.28	-13.20/-14.74	-12.28/-11.02	-10.33/-14.01	-12.45/-9.98	-10.19/-8.00	-6.09/-4.99	-4.20/-4.92	-7.20/-5.58	-6.35/-8.39	-9.92/-8.51	-8.58/-7.35	-5.39/-3.78	-5.17/-5.30	-4.73/-7.22	-2.99/-3.73	-5.14/-9.45	-8.65/-8.52
Θ(45°)	-9.26/-6.56	-2.17/-1.86	-3.46/-4.49	-6.18/-8.90	-12.70/-7.05	-6.12/-6.35	-4.67/-10.66	-9.69/-6.07	-5.06/-5.84	-7.47/-14.66	-10.94/-6.72	-7.20/-6.82	-5.07/-3.43	-1.81/-1.83	-3.82/-3.10	-5.57/-6.32	-9.20/-6.55	-7.95/-4.74	-4.75/-5.16	-4.81/-6.14	-6.81/-4.34	-6.27/-5.48	-3.94/-12.84	-8.58/-13.54
Θ(52.5°)	-8.97/-8.60	-0.98/-0.61	-0.74/-2.10	-10.62/-8.47	-7.12/-5.31	-3.44/-3.29	-5.75/-11.61	-13.30/-4.01	-4.94/-2.06	-5.22/-8.26	-10.53/-10.93	-8.60/-6.26	-3.49/-3.40	-3.14/-5.55	-6.95/-4.74	-7.30/-5.43	-8.40/-5.00	-5.36/-3.37	-2.61/-4.50	-5.92/-3.12	-5.42/-8.29	-2.94/-3.37	-3.10/-9.78	-9.42/-8.30
Θ(60°)	-9.98/-7.51	-2.53/-1.22	-0.35/-0.33	-5.69/-6.79	-4.02/-2.61	-1.37/-3.10	-6.60/-5.66	-12.08/-5.36	-4.03/-1.74	-4.36/-8.33	-10.85/-8.42	-14.18/-7.76	-5.03/-2.89	-2.41/-4.46	-4.51/-4.85	-3.86/-4.52	-8.12/-14.25	-3.88/-3.89	-4.83/-3.42	-2.74/-3.64	-2.61/-3.15	-4.97/-1.67	-3.73/-9.45	-10.02/-8.66
Θ(67.5°)	-6.81/-4.17	-3.34/-2.88	-2.500/-4.3	-1.13/-1.42	-1.89/-1.19	-1.96/-5.03	-14.29/-6.52	-3.85/-2.19	-2.53/-2.67	-8.00/-6.54	-6.56/-6.56	-8.64/-7.05	-6.98/-9.32	-4.08/-7.93	-6.25/-9.12	-9.70/-3.78	-7.84/-8.04	-4.68/-4.62	-5.63/-5.72	-4.29/-2.89	-3.59/-3.20	-2.07/-2.60	-5.39/-8.51	-12.14/-8.53
Θ(75°)	-4.04/-4.42	-3.98/-4.17	-1.91/-1.11	-1.37/-0.21	0.31/-3.33	-6.20/-14.59	-6.94/-6.79	-5.13/-3.63	-1.79/-6.01	-4.12/-7.15	-10.24/-3.70	-8.01/-7.11	-10.28/-6.59	-7.14/-3.67	-3.74/-6.25	-11.53/-11.45	-5.38/-6.09	-5.20/-5.77	-4.74/-9.01	-5.79/-6.19	-3.86/-5.07	-2.24/-2.55	-3.15/-10.47	-10.51/-7.35
Θ(82.5°)	-2.61/-4.37	-0.95/-8.67	-5.29/-2.01	0.90/-1.90	-0.60/-6.01	-10.73/-11.62	-3.09/-3.59	-4.92/-4.74	-2.04/-8.76	-3.05/-5.16	-7.50/-14.61	-14.38/-8.64	-3.11/-4.69	-7.18/-4.71	-5.81/-9.97	-7.50/-6.20	-5.09/-12.56	-7.41/-6.43	-3.89/-2.55	-0.46/-1.84	-3.63/-3.77	1.10/-1.289	-4.55/-8.13	-10.49/-14.58
Θ(90°)	-9.40/-1.09	-1.03/-4.12	-4.86/-3.1	1.87/-4.3	0.65/-3.91	-6.22/-7.94	-2.48/-4.20	-3.08/-5.43	-3.56/-5.05	-6.25/-5.34	-9.93/-9.31	-12.63/-7.64	-4.99/-8.14	-6.23/-2.38	-3.84/-5.56	-8.83/-4.52	-9.64/-1.65	0.16/-0.74	0.00/-1.34	-2.29/-2.17	1.78/-1.27	-4.97/-7.72	-8.97/-8.57	
Θ(97.5°)	-3.83/-1.67	-2.37/-10.10	-2.850/-9.3	0.35/-1.80	-0.21/-5.02	-5.58/-8.08	-5.71/-4.41	-8.78/-2.51	-0.98/-2.70	-2.81/-2.60	-3.53/-1.71	-5.61/-11.86	-12.18/-7.15	-5.81/-3.34	-13.09/-14.29	-10.91/-2.28	-7.80/-7.74	-8.60/-6.76	-3.05/-2.65	-0.142/-87	-3.98/-1.26	2.190/-97	-7.22/-9.86	-11.08/-5.86
Θ(105°)	-4.51/-1.46	-2.00/-6.56	-8.84/-1.57	1.400/-57	1.58/-0.34	-4.27/-5.21	-3.68/-6.86	-4.40/-0.54	-2.64/-1.18	-2.38/-2.98	-1.20/-1.73	-4.59/-5.74	-8.75/-5.81	-6.94/-13.02	-9.52/-9.11	-11.54/-9.40	-9.92/-9.98	-4.46/-1.93	-3.43/-9.21	-5.58/-3.09	1.13/-1.50	1.950/-04	-3.32/-12.07	-9.47/-10.78
Θ(112.5°)	-10.22/-4.07	-2.18/-1.80	-3.38/-1.58	-1.29/-0.77	-0.220/-55	-0.50/-2.73	-5.57/-5.22	-0.46/-0.98	0.65/-0.50	-4.40/-1.59	-5.76/-2.27	-5.69/-5.70	-10.57/-8.25	-5.08/-6.19	-4.10/-1.46	-9.40/-8.10	-7.19/-9.82	-6.06/-5.00	-2.52/-3.93	-11.92/-22	2.11/-1.58	1.99/-1.04	-3.04/-5.24	-8.37/-9.97
Θ(120°)	-11.04/-7.53	-2.210/-36	-1.09/-1.89	-1.98/-1.83	0.730/-13	2.08/-1.67	-4.62/-1.25	-1.18/-0.09	1.06/-4.00	-1.60/-4.09	-3.61/-1.95	-15.52/-5.36	-2.31/-1.47	-1.58/-3.06	-4.18/-5.88	-11.65/-5.75	-4.41/-8.59	-6.16/-2.87	-1.74/-3.78	-8.410/-23	-0.762/-75	0.42/-0.44	-1.71/-4.96	-9.24/-8.97
Θ(127.5°)	-4.81/-5.98	-4.78/-0.27	-2.24/-3.85	-2.95/-1.60	0.290/-66	0.60/-0.56	-4.21/-1.14	-1.31/-2.00	-0.12/-7.27	-5.77/-5.21	-6.02/-4.83	-6.66/-1.14	-2.11/-9.7	-2.74/-5.71	-10.49/-8.39	-10.75/-11.34	-6.30/-5.94	-3.39/-6.20	-5.67/-5.11	-0.25/-1.13	0.43/-1.07	-3.34/-6.55	-10.32/-10.53	
Θ(135°)	-6.90/-6.24	-1.41/-4.76	-1.490/-88	1.000/-77	1.500/-21	2.86/-2.16	-2.86/-0.39	-1.320/-40	-0.58/-8.48	-6.56/-4.70	-6.63/-2.37	-3.97/-2.29	-4.52/-7.69	-4.22/-3.94	-4.76/-9.80	-9.31/-9.61	-13.54/-6.74	-5.22/-4.34	-6.91/-5.08	0.370/-97	-1.17/-1.67	-4.44/-5.08	-10.99/-10.54	
Θ(142.5°)	-4.78/-4.43	-3.26/-2.28	-1.02/-0.19	-0.230/-06	-0.27/-1.80	-2.30/-3.06	-4.03/-3.08	-2.29/-0.00	-4.97/-2.36	-2.41/-8.69	-2.70/-2.70	-6.86/-4.82	-4.57/-5.59	0.04/-0.19	-3.33/-9.67	-11.01/-10.03	-7.78/-6.13	-5.39/-7.10	-8.91/-8.13	-4.55/-5.26	-1.85/-2.15	-2.49/-1.65	-7.31/-6.84	-8.19/-11.28
Θ(150°)	-9.57/-7.20	-5.96/-4.71	-4.93/-3.00	-2.81/-1.98	-3.46/-2.54	-3.04/-4.69	-6.18/-8.88	-6.17/-7.30	-3.46/-0.52	-7.42/-0.81	0.75/-2.12	-6.81/-4.88	-5.36/-4.26	-2.09/-3.00	-4.39/-3.83	-4.46/-4.46	-2.01/-2.73	-7.02/-10.39	-4.60/-2.28	-2.02/-2.49	-1.74/-3.28	-5.51/-5.50	-4.09/-4.92	-11.44/-7.65
Θ(157.5°)	-9.86/-10.44	-9.75/-7.96	-7.56/-9.39	-9.28/-8.55	-6.33/-6.07	-7.14/-14.35	-11.59/-8.48	-5.76/-3.05	-2.45/-9.37	-3.68/-2.59	-7.02/-9.27	-3.90/-0.85	-0.75/-2.32	-6.00/-6.62	-6.70/-6.25	-4.23/-2.86	-1.88/-5.04	-5.32/-1.73	0.170/-09	-0.82/-1.16	-2.17/-5.11	-6.16/-4.68	-6.29/-8.67	-13.17/-11.96
Θ(165°)	-4.85/-3.43	-3.18/-2.87	-3.28/-4.27	-4.47/-5.18	-5.92/-7.98	-6.91/-5.55	-4.97/-7.99	-4.13/-4.31	-5.15/-3.41	-4.67/-7.06	-10.01/-6.87	-3.82/-3.27	-6.23/-7.54	-5.21/-1.07	0.43/-0.14	-7.10/-2.89	-3.03/-2.39	-1.63/-1.93	-2.77/-3.26	-2.45/-2.29	-2.76/-3.62	-4.64/-4.82	-5.71/-7.51	-7.51/-6.20
Θ(172.5°)	-5.21/-5.40	-5.69/-7.17	-7.81/-9.29	-10.53/-10.17	-8.23/-6.15	-5.41/-3.57	-2.69/-1.27	-1.47/-2.56	-0.28/-0.75	-3.59/-9.31	-15.20/-10.04	-7.42/-10.04	-9.50/-3.87	-2.14/-2.04	-3.57/-3.90	-3.38/-1.56	-1.88/-2.94	-3.16/-3.20	-2.84/-2.03	-1.94/-1.54	-1.78/-2.14	-2.54/-3.67	-4.67/-5.92	-6.11/-6.16
Θ(180°)	-4.33/-4.44	-3.82/-3.82	-3.60/-3.01	-2.79/-2.40	-3.15/-2.96	-3.35/-2.76	-3.53/-4.93	-2.41/-0.76	-1.44/-3.50	-4.65/-9.33	-12.51/-12.38	-7.11/-3.49	-1.78/-2.28	-4.99/-5.78	-3.85/-3.26	-5.06/-6.14	-7.22/-5.42	-5.09/-5.18	-4.85/-4.87	-4.75/-4.66	-4.49/-4.00	-3.69/-3.19	-3.61/-3.84	-4.08/-4.18
Freq(Hz)	6.475GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.69/-8.93	-8.30/-9.02	-8.32/-8.64	-8.34/-9.27	-7.96/-8.40	-10.06/-8.65	9.24/-12.60	-10.05/-8.18	-7.77/-9.30	-9.24/-10.92	-9.19/-7.19	-7.83/-7.10	-8.13/-7.46	-7.46/-6.99	-7.41/-6.37	-7.85/-9.10	-7.12/-6.58	-8.49/-8.07	-9.21/-8.87	-9.16/-8.58	-9.21/-8.87	-9.16/-8.58	-9.21/-8.87	-9.16/-8.58
Θ(7.5°)	-9.05/-8.31	-8.88/-7.46	-9.51/-8.27	-9.26/-8.26	-7.94/-8.07	-7.97/-8.43	-8.48/-7.43	-8.72/-8.70	-7.83/-7.26	-8.95/-8.58	-8.47/-7.31	-8.80/-9.65	-10.08/-9.24	-11.33/-11.18	-12.54/-11.18	-11.13/-12.46	-13.86/-13.75	-14.10/-14.27	-13.75/-13.94	-13.89/-14.85	-14.10/-12.44	-12.74/-11.67	-11.99/-10.86	-10.16/-9.51
Θ(15°)	-14.13/-14.48	-14.96/-10.66	-10.82/-10.78	-10.01/-10.02	-8.24/-11.62	-10.42/-11.01	-12.54/-10.72	-10.38/-3.92	-8.60/-7.68	-7.68/-8.69	-9.01/-9.94	-9.64/-12.36	-11.88/-11.82	-9.58/-12.87	-12.78/-14.88	-15.06/-11.80	-11.98/-12.90	-12.94/-10.05	-11.17/-9.89	-12.43/-10.95	-10.89/-12.96	-14.45/-13.26	-12.96/-13.00	-13.19/-14.48
Θ(22.5°)	-14.78/-13.90	-11.68/-9.32	-6.82/-7.89	-9.16/-10.05	-10.50/-8.85	-10.37/-14.66	-15.15/-11.99	-9.95/-11.81	-7.72/-5.21	-6.52/-7.12	-7.69/-8.91	-12.21/-12.81	-10.19/-11.42	-13.50/-12.68	-6.57/-6.45	-5.84/-5.70	-7.59/-8.70	-11.70/-11.41	-10.82/-9.65	-10.22/-10.16	-5.76/-4.74	-5.52/-7.46	-10.78/-11.81	-11.70/-10.61
Θ(30°)	-7.82/-6.03	-6.30/-8.01	-8.84/-6.83	-7.31/-6.79	-9.92/-9.79	-10.31/-14.31	-13.99/-12.09	-8.93/-15.08	-8.28/-10.37	-11.24/-8.79	-10.54/-12.54	-13.05/-9.51	-7.62/-5.63	-2.62/-4.07	-7.73/-14.55	-14.88/-14.82	-15.37/-13.89	-10.08/-7.77	-5.20/-3.79	-4.05/-6.69	-4.93/-4.58	-6.63/-8.81	-6.63/-8.81	-6.63/-8.81
Θ(37.5°)	-7.55/-6.29	-4.15/-3.82	-6.97/-8.82	-11.24/-6.47	-8.84/-6.29	-8.91/-9.57	-11.18/-9.30	-9.37/-12.44	-13.18/-11.01	-15.76/-12.62	-11.96/-14.00	-10.59/-12.75	-10.20/-6.97	-4.37/-4.78	-7.05/-7.18	-9.77/-15.03	-14.68/-13.74	-14.95/-12.28	-7.23/-8.39	-9.63/-4.83	-3.94/-4.44	-3.55/-4.26	-6.35/-7.59	-10.90/-9.31
Θ(45°)	-10.44/-6.25	-5.73/-5.22	-4.64/-7.01	-12.18/-5.49	-6.42/-7.87	-8.36/-4.98	-5.70/-5.86	-8.56/-14.86	-10.25/-10.50	-7.72/-7.19	-12.58/-8.67	-7.85/-8.61	-6.78/-6.00	-3.90/-5.57	-4.42/-4.41	-9.12/-7.19	-9.78/-10.98	-9.46/-7.08	-7.16/-8.37	-4.56/-7.37	-7.37/-7.21	-3.75/-1.55	-4.50/-7.83	-11.21/-10.84
Θ(52.5°)	-9.26/-8.21	-7.47/-5.75	-4.30/-4.06	-5.28/-5.51	-7.81/-10.90	-6.30/-3.04	-6.58/-5.58	-15.23/-12.94	-8.03/-4.06	-5.40/-6.28	-6.01/-7.78	-6.62/-6.97	-7.60/-4.08	-5.38/-9.27	-4.94/-6.48	-7.60/-6.05	-6.67/-6.09	-7.33/-4.75	-5.39/-3.77	-10.51/-5.81	-4.29/-3.10	-3.61/-10.13	-15.38/-10.73	
Θ(60°)	-7.20/-5.45	-10.37/-7.47	-2.64/-2.51	-2.24/-4.32	-7.21/-7.10	-4.42/-5.22	-7.17/-14.91	-8.62/-9.49	-2.83/-5															



Antenna Pattern

Appendix B.6

Θ(60°)	-5.69/-4.36	-8.96/-10.06	-5.87/-2.96	-4.43/-2.21	-0.28/-0.62	2.17/2.85	3.34/-1.18	0.86/-0.34	-5.06/-6.84	-6.45/-10.54	-8.67/-8.73	-7.06/-11.45	-15.24/-10.88	-11.78/-5.65	-2.96/-10.51	-9.76/-4.60	-4.15/-1.12	-1.47/-0.55	-4.12/-4.80	-3.18/-8.58	-2.35/-3.67	-3.94/-4.57	-6.03/-6.47	-3.91/-7.76
Θ(67.5°)	-5.11/-8.94	-7.38/-11.41	-4.04/-6.09	-5.48/-3.64	-3.67/-1.54	1.13/2.72	3.47/-1.28	1.97/0.61	-2.10/-5.69	-7.72/-5.79	-7.12/-8.47	-5.98/-10.33	-15.32/-10.72	-15.64/-7.63	-5.92/-8.24	-4.56/-1.44	-4.46/-0.94	0.32/-1.73	-1.02/-1.87	-10.76/-8.73	-1.10/-0.81	-3.50/-3.22	-6.66/-2.75	-3.55/-8.29
Θ(75°)	-5.99/-9.61	-9.18/-10	-6.93/-11.80	-5.48/-8.03	-3.27/-0.17	3.55/3.66	4.17/2.06	1.56/-2.12	-2.05/-5.65	-5.43/-6.04	-5.54/-7.86	-6.11/-7.87	-8.29/-12.54	-11.33/-4.95	-9.60/-8.01	-9.71/-4.28	-1.00/-2.71	-2.48/0.78	-6.62/-4.18	-14.43/-2.58	-5.21/0.08	-2.61/-2.61	-5.52/-3.70	-5.66/-10.62
Θ(82.5°)	-7.99/-12.82	-9.92/-7.71	-5.37/-8.88	-6.97/-8.90	-0.902.11	2.44/4.90	3.47/3.94	0.55/-3.03	-6.12/-7.61	-5.64/-3.66	-8.69/-4.19	-4.65/-13.26	-4.95/-13.18	-15.99/-8.70	-8.94/-11.37	-13.38/-11.13	-3.93/-0.65	3.68/6.61	-4.84/-5.05	-10.42/-9.05	-3.87/-1.58	-2.90/-2.15	-5.48/-3.51	-8.67/-9.34
Θ(90°)	-12.06/-15.11	-6.94/-8.94	-7.07/-6.67	-7.14/-6.23	1.60/-1.89	3.82/4.51	4.04/4.06	2.77/-3.48	-8.40/-6.82	-3.65/-5.26	-6.54/-5.80	-7.04/-13.33	-16.03/-12.02	-12.64/-9.29	-13.24/-9.84	-4.84/-11.30	-4.33/-11.46	-5.41/-1.57	-3.31/-14.61	-3.44/-9.53	-2.37/-0.39	-2.14/-1.96	-8.29/-4.55	-8.08/-9.33
Θ(97.5°)	-13.67/-11.51	-8.42/-6.56	-11.73/-4.95	-5.73/-5.85	1.46/2.53	2.79/4.45	4.58/2.77	-3.00/-4.27	-10.17/-9.13	-4.64/-4.38	-6.76/-6.06	-5.55/-12.91	-12.61/-12.47	-11.61/-10.75	-11.20/-15.27	-6.82/-10.14	-5.68/-4.96	-7.13/-3.30	-4.46/-7.65	0.75/-2.74	-0.50/-2.43	-2.75/-2.12	-7.48/-7.76	-6.70/-9.84
Θ(105°)	-11.22/-9.32	-10.80/-10.96	-9.04/-7.21	-6.55/-4.35	0.16/-1.36	3.77/4.02	3.70/2.82	-0.80/-1.08	-4.98/-6.82	-4.14/-3.24	-9.48/-5.43	-13.48/-7.41	-9.22/-13.82	-11.00/-8.55	-12.27/-15.60	-15.78/-8.15	-8.57/-4.61	-8.17/-2.11	-3.53/-6.74	0.08/-1.37	-4.82/-4.56	-3.33/-1.69	-5.59/-9.12	-10.36/-10.56
Θ(112.5°)	-9.27/-10.11	-8.97/-13.48	-11.69/-9.27	-4.90/-3.63	-0.33/-1.55	2.45/4.24	3.59/1.76	-3.19/-2.08	-4.79/-9.51	-8.50/-2.85	-9.26/-6.27	-11.51/-10.00	-7.52/-6.70	-9.19/-9.64	-14.81/-11.06	-11.32/-6.62	-10.89/-11.39	-7.92/-1.58	-3.69/-8.06	0.13/-0.40	-4.68/-2.42	-3.17/-2.80	-3.56/-7.10	-8.55/-9.66
Θ(120°)	-9.36/-5.56	-6.48/-8.89	-7.62/-6.25	-3.22/-2.89	-0.91/2.14	1.47/4.26	1.30/-1.00	1.36/-1.06	-1.66/-5.06	-8.10/-5.17	-6.70/-7.26	-12.80/-13.58	-7.19/-7.99	-6.64/-11.32	-12.24/-12.34	-8.83/-7.01	-11.14/-12.48	-7.49/-7.24	-3.86/-8.29	0.27/-0.19	-2.46/-5.45	-6.70/-6.04	-2.28/-6.62	-15.21/-5.34
Θ(127.5°)	-4.42/-7.88	-7.58/-13.77	-6.55/-5.36	-3.58/-2.41	-1.00/-1.75	1.64/2.93	1.53/3.97	1.24/-0.28	-2.76/-7.07	-5.68/-7.38	-10.09/-8.13	-9.88/-8.30	-8.03/-6.66	-10.97/-8.03	-11.24/-13.68	-10.05/-11.64	-12.76/-8.82	-6.03/-5.72	-5.72/-4.25	0.18/-1.28	-2.85/-5.01	-5.87/-4.16	-3.66/-5.18	-7.19/-6.45
Θ(135°)	-5.78/-3.10	-4.28/-10.02	-8.39/-5.02	-1.52/-2.21	0.55/2.59	3.34/3.60	1.98/2.97	0.31/-2.80	-1.35/-2.75	-7.28/-10.63	-15.16/-4.97	-7.44/-7.63	-8.44/-14.21	-10.04/-10.52	-10.08/-14.07	-9.51/-10.73	-7.82/-7.87	-9.02/-6.04	-0.49/0.20	-0.86/0.79	-1.62/-1.07	-5.12/-3.81	-6.77/-7.03	-7.17/-9.25
Θ(142.5°)	-9.93/-5.04	-5.89/-4.88	-2.61/-1.56	0.50/-1.40	1.53/2.01	2.84/2.85	-0.07/2.56	-0.24/-0.74	-0.67/-2.86	-5.37/-10.55	-3.43/-14.75	-8.72/-14.70	-7.67/-9.43	-14.37/-7.32	-8.14/-12.32	-4.73/-5.30	-3.96/-3.20	-2.11/0.09	2.54/-1.10	0.32/-1.41	-3.17/-1.58	-5.36/-4.57	-7.41/-6.48	
Θ(150°)	-3.67/-5.56	-1.36/-0.26	-0.28/0.35	0.07/0.61	1.18/2.15	2.13/2.08	0.41/-1.47	-0.71/-1.81	-1.70/-1.51	-5.96/-4.24	-5.34/-10.26	-7.65/-5.15	-7.64/-6.96	-7.52/-8.96	-7.25/-7.14	-12.99/-9.61	-6.52/-6.35	-2.97/0.60	-0.19/-1.81	-1.45/-0.17	-0.43/-2.70	-3.68/-3.20	-2.02/-2.14	-8.30/-4.42
Θ(157.5°)	-3.52/-3.61	-4.33/-2.67	-1.33/-0.63	-1.06/-0.73	-1.77/-2.55	-0.54/2.28	-2.08/-1.18	-2.50/-1.65	-1.33/-4.01	-2.28/-1.66	-9.26/-8.99	-8.74/-7.87	-10.87/-10.34	-9.44/-10.36	-8.27/-8.69	-7.94/-8.14	-6.09/-3.42	-0.21/0.09	0.32/-0.05	-0.64/-1.85	-1.94/-3.71	-3.09/-2.53	-1.09/-0.83	-3.02/-3.95
Θ(165°)	-0.31/-0.61	-0.35/-0.03	0.03/0.09	0.06/0.08	-0.00/-0.95	-0.63/2.96	1.54/0.48	-0.35/-1.95	-2.95/-1.64	-1.85/-10.28	-4.99/-1.33	-2.88/-5.08	-7.31/-6.92	-4.37/-1.75	-1.76/-2.30	-2.20/-1.48	-1.05/-0.43	-0.07/0.18	0.08/-1.16	-1.69/-1.06	-1.20/-3.41	-2.20/-2.61	-2.06/-2.01	-1.26/-0.84
Θ(172.5°)	-1.16/-1.48	-1.18/-0.71	-0.23/0.20	0.64/-1.12	1.57/-1.29	-1.19/-0.91	2.22/-2.58	0.34/-0.93	-2.66/-1.21	-6.28/-8.22	-3.16/-4.02	-9.14/-4.71	-3.52/-5.45	-7.63/-6.61	-4.01/-3.34	-3.28/-3.30	-3.05/-3.36	-2.72/-2.77	-3.76/-4.02	-4.56/-4.13	-4.94/-3.57	-2.81/-1.19	-1.39/-1.02	-0.98/-0.59
Θ(180°)	-0.75/-0.13	0.50/0.03	0.18/-0.21	-0.25/-0.65	0.13/0.59	0.63/-1.31	-2.09/-1.1	-1.52/-2.42	0.48/-0.67	-6.13/-4.69	-6.41/-6.01	-1.13/-1.60	-2.52/-1.58	-2.09/-2.46	-3.42/-1.74	-1.67/-1.63	-2.30/-2.52	-2.27/-1.88	-1.51/-1.61	-0.82/-0.48	-0.35/-0.48	-0.27/-0.24	-0.90/-0.46	-0.61/-0.15
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°)	-1.24/-1.75	-1.27/-1.36	-1.24/-1.49	-0.95/-0.56	-1.16/-1.32	-0.56/0.13	0.16/0.63	-0.88/-0.06	-0.46/-1.12	-0.32/0.18	-0.67/-0.81	-1.34/-0.75	-1.68/-0.59	-1.14/-0.64	-0.83/-0.92	-0.71/0.15	-0.29/-2.23	0.01/-0.29	0.16/-0.17	0.09/-0.15	-0.07/-0.05	-0.35/-0.87	-0.92/-1.25	-1.03/-1.51
Θ(7.5°)	-2.04/-2.72	-2.13/-2.56	-2.14/-1.95	-1.60/-1.39	-2.24/-0.90	-1.11/0.02	-0.77/-0.84	-1.60/-3.57	-0.05/-2.18	-1.15/0.37	0.64/0.18	-0.97/-2.13	-1.86/-2.85	-2.48/-2.80	-2.59/-2.40	-2.01/-2.48	-0.22/-1.54	-1.85/-1.50	-1.17/-1.36	-0.64/0.55	-0.77/-0.27	-1.10/-1.41	-1.31/-1.44	-1.33/-1.22
Θ(15°)	-2.58/-4.66	-6.29/-6.11	-4.89/-5.38	-3.36/-3.41	-3.77/-3.91	-2.44/-2.91	-2.51/-1.84	-1.64/-1.69	-1.19/-0.78	-2.13/0.10	-0.92/-1.54	-2.53/-3.10	-4.78/-2.49	-2.50/-3.23	-3.94/-2.79	-1.98/-2.22	-2.37/-3.33	-2.96/-2.10	-2.82/-2.35	-1.75/-1.69	-3.08/-4.09	-4.59/-4.19	-2.88/-3.36	-3.38/-2.84
Θ(22.5°)	-4.82/-6.86	-6.79/-4.41	-3.18/-3.08	-3.03/-1.94	-0.46/-0.11	0.33/0.18	0.22/0.25	-3.77/-2.52	-3.04/-0.99	-2.74/-3.12	-4.50/-2.47	-3.41/-2.71	-5.85/-9.30	-4.36/-3.16	-2.61/-3.08	-2.92/-2.79	-3.52/-2.89	-3.41/-6.33	-3.66/-6.13	-6.18/-3.47	-5.09/-6.73			
Θ(30°)	-10.39/-8.58	-5.45/-6.39	-3.62/-2.61	-1.63/-1.21	-0.87/-1.42	-0.84/0.37	0.98/0.06	-1.52/0.49	-3.19/-2.81	-1.59/-3.23	-1.42/-3.28	-4.60/-5.90	-8.13/-7.22	-4.81/-6.77	-5.90/-7.17	-5.73/-4.95	-4.49/-5.52	-3.23/-2.57	-2.36/-3.51	-4.71/-4.95	-4.52/-6.39	-5.89/-5.74	-6.27/-5.56	
Θ(37.5°)	-10.25/-5.98	-5.38/-6.48	-7.23/-5.45	-4.89/-3.93	-2.30/0.07	0.22/-1.16	0.16/-1.33	-0.06/-0.62	-4.53/-3.46	-2.09/-4.11	-0.14/-2.44	-7.92/-12.46	-10.03/-6.74	-6.37/-7.98	-12.51/-10.56	-7.01/-6.99	-6.33/-1.38	-0.83/-1.47	-1.63/-2.66	-3.26/-3.44	-4.04/-7.21	-5.02/-4.39	-7.38/-7.91	-7.54/-7.78
Θ(45°)	-5.22/-3.80	-7.71/-12.87	-7.48/-7.48	-2.73/-1.26	-0.52/-0.15	1.26/0.56	1.59/3.24	1.91/0.81	-3.01/-5.13	-3.68/-4.84	-6.64/-4.57	-7.68/-14.60	-14.05/-9.50	-5.81/-7.30	-8.88/-6.33	-8.81/-8.10	-6.26/-3.16	-2.20/-1.32	-1.52/-0.89	-1.22/-2.50	-4.36/-6.09	-4.77/-4.24	-5.19/-2.83	-7.20/-9.64
Θ(52.5°)	-3.49/-5.92	-9.86/-5.64	-1.41/-5.53	-2.42/-0.58	0.75/-1.21	2.28/-1.10	2.58/-1.22	1.88/0.81	-1.93/-4.23	-7.95/-8.21	-12.24/-7.06	-8.21/-14.10	-12.80/-13.77	-8.89/-6.58	-5.56/-9.41	-6.11/-5.49	-4.61/-3.37	-2.14/-2.90	-2.54/-1.51	-5.29/-4.34	-7.55/-3.43	-5.17/-3.42	-3.51/-7.87	-5.87/-7.60
Θ(60°)	-2.44/-9.01	-6.14/-5.38	-4.60/-7.65	-5.24/-2.77	-3.37/-1.15	1.10/-1.48	3.49/-2.15	1.10/-1.13	-0.58/-4.45	-4.67/-7.50	-10.96/-11.12	-7.63/-8.32	-7.60/-14.41	-9.57/-8.80	-4.82/-7.69	-4.82/-4.48	-8.02/-1.60	0.33/-0.75	-3.55/-0.15	-7.34/-5.82	-2.50/-3.00	-3.43/-3.47	-4.67/-6.81	-6.39/-6.69
Θ(67.5°)	-6.69/-12.12	-6.59/-3.92	-6.60/-6.73	-8.14/-1.76	-2.21/-3.5	2.98/3.15	3.05/-1.48	0.67/-4.89	-6.42/-7.25	-8.42/-5.44	-11.19/-6.28	-6.40/-4.72	-14.30/-15.96	-15.24/-10.68	-4.49/-9.19	-7.02/-11.85	-6.65/-8.32	-0.16/-0.66	1.16/-2.24	-10.26/-5.54	-1.14/-5.31	-4.18/-2.19	-4.22/-4.48	-9.67/-5.43
Θ(75°)	-8.93/-8.69	-8.13/-1.96	-6.94/-4.50	-7.63/-4.54	0.66/2.66	3.38/4.32	2.93/-2.18	1.99/-0.46	-8.33/-5.85	-10.98/-6.42	-6.31/-9.84	-5.70/-7.16	-9.61/-14.86	-11.36/-11.33	-9.35/-9.28	-8.80/-8.31	-3.65/-8.67	-2.67/-1.10	-1.68/-6.00	-8.87/-1.60	-2.66/-3.42	-2.83/-2.03	-5.94/-5.62	-8.63/-8.16
Θ(82.5°)	-14.30/-13.39	-11.71/-3.07	-4.77/-4.22	-6.00/-2.33	0.57/-1.68	2.32/3.57	4.23/-4.40	1.64/-0.11	-6.74/-7.34	-5.47/-4.28	-7.27/-3.21	-6.34/-12.24	-8.29/-7.99	-10.55/-9.05	-14.17/-10.41	-14.75/-14.83	-7.21/-2.05	4.23/-2.21	-5.01/-5.15	-7.23/-2.41	-2.31/-2.75	-6.04/-7.66	-7.48/-12.59	
Θ(90°)	-12.12/-15.30	-8.55/-4.21	-4.33/-5.86	-4.66/-4.17	-0.77/-1.38	2.81/-2.45	1.64/-1.49	0.96/-1.88	-7.00/-13.01	-6.22/-4.32	-3.94/-4.90	-13.50/-9.01	-10.52/-11.62	-12.44/-16.61	-14.89/-7.84	-5.35/-11.13	-6.93/-14.72	-3.11/-1.41	-2.80/-4.19	-2.38/-7.30	-2.70/-1.96	-2.79/-2.58	-5.59/-6.56	-8.46/-13.54
Θ(97.5°)	-11.63/-15.00	-6.75/-7.10	-4.54/-5.03	-5.91/-2.83	0.04/-2.11	3.54/-2.79	3.95/4.54	2.77/-0.80	-3.99/-6.02	-6.00/-4.42	-3.33/-8.50	-8.01/-9.44	-12.37/-13.60	-13.48/-13.66	-11.07/-13.76	-10.73/-8.58	-8.25/-5.32	-7.12/-4.39	-7.97/-2.45	0.06/-0.10	-2.15/-0.36	-0.85/-4.37	-5.37/-6.68	-9.98/-13.51
Θ(105°)	-10.50/-14.53	-10.98/-7.35	-4.36/-6.02	-5.24/-2.76	0.62/3.26	2.46/3.10	3.85/3.95	3.73/-4.49	-9.46/-7.96	-9.45/-5.59	-4.23/-5.85	-11.18/-10.87	-12.30/-11.45	-10.23/-10.43	-11.16/-13.13	-10.65/-9.04	-8.50/-4.59	-7.23/-3.65	-4.31/-4.16	-0.71/-3.64	-3.06/-1.14	-1.06/-3.61	-5.38/-8.01	-9.52/-10.15
Θ(112.5°)	-11.87/-7.97	-6.91/-5.68	-4.92/-5.83	-7.68/-1.53	1.99/-2.87	3.94/-3.33	3.87/-3.87	2.40/-4.05	-5.84/-4.13	-7.44/-5.06	-9.39/-3.34	-14.78/-15.23	-10.05/-6.63	-11.13/-9.49	-14.48/-9.41	-8.73/-7.67	-9.84/-13.64	-8.30/-2.20	-					



Antenna Pattern

Appendix B.6

Θ (112.5°)	-0.80/4.33	-5.11/-13.97	-11.11/-9.38	-8.48/-6.44	-7.48/-7.92	-7.43/-7.08	-5.29/-7.46	-5.48/-3.34	-6.64/0.69	0.56/3.80	3.58/1.87	3.62/-0.19	-0.19/-2.00	-3.37/-5.20	-2.61/-3.55	-5.27/-6.48	-4.53/-4.84	-11.27/-5.77	-8.05/-14.06	-9.62/-0.75	-7.12/-2.42	-5.64/-3.10	-0.83/-2.89	1.20/-1.78
Θ (120°)	-7.15/-5.70	-6.75/-8.23	-6.13/-5.83	-7.17/-4.84	-9.17/-5.69	-7.07/-6.63	-7.29/-7.25	-3.07/-6.43	-2.16/0.95	-0.01/2.75	4.61/2.15	2.89/-0.47	-1.95/-1.95	-2.78/-0.62	-1.51/-4.05	-5.04/-4.69	-7.07/-5.56	-6.00/-6.54	-5.60/-15.47	-4.63/-2.84	-3.83/-0.92	-0.67/-2.38	-4.74/-0.57	-2.24/-7.48
Θ (127.5°)	-13.41/-15.62	-12.18/-9.15	-4.28/-3.10	-1.61/-3.26	-5.18/-5.32	-12.02/-7.58	-7.67/-5.04	-3.21/-7.76	0.68/1.11	0.87/2.11	3.81/2.63	4.47/2.19	-0.24/-0.03	1.20/1.47	-0.64/-4.52	-2.98/-3.92	-5.98/-9.03	-3.62/-3.19	-6.38/-12.62	-6.59/-7.84	-2.52/-7.72	-1.91/-3.43	-1.21/-1.95	-4.81/-10.48
Θ (135°)	-10.76/-9.24	-10.40/-12.42	-12.16/-8.32	-5.42/-3.14	-6.36/-9.56	-14.57/-3.29	-2.71/-6.91	-4.94/-3.62	-0.32/1.48	0.92/2.29	2.85/-0.08	1.33/2.31	-0.59/-1.03	-2.45/-4.21	-4.81/-2.61	-1.60/-3.21	-4.99/-4.17	-1.08/-2.58	-6.18/-10.04	-6.98/-2.99	-4.04/-5.17	-3.12/-12.26	-1.30/-3.40	-6.67/-4.64
Θ (142.5°)	-9.98/-9.36	-10.22/-9.87	-9.59/-9.94	-14.57/-11.70	-11.25/-6.39	-4.41/-8.02	-3.54/-2.52	-5.27/-1.60	1.05/-0.10	1.17/3.97	3.09/0.53	0.03/0.98	-1.01/-8.03	-8.83/-6.05	-4.33/-1.39	-1.73/-3.31	-8.31/-3.02	-1.74/0.37	-3.70/-8.28	-10.33/-4.86	-15.59/-11.15	-7.82/-12.16	-6.48/-6.86	-9.30/-10.01
Θ (150°)	-13.03/-7.15	-4.98/-2.83	-4.43/-7.14	-10.56/-5.96	-2.74/-4.58	-5.19/-4.36	-2.58/-1.91	-0.12/-0.33	-1.51/-1.06	0.86/1.47	2.26/2.89	1.61/2.62	2.71/2.27	0.95/-0.27	-1.16/-2.82	-6.01/-7.42	-6.00/-5.90	0.28/-1.23	-5.68/-4.81	-3.40/-4.21	-10.62/-9.55	-8.74/-7.33	-5.68/-7.54	-14.69/-15.49
Θ (157.5°)	-2.82/-8.73	-8.49/-7.56	-7.90/-7.69	-6.43/-4.01	-5.44/-5.86	-3.46/-1.33	-0.37/0.48	1.12/0.51	-0.45/-2.39	-1.48/0.93	1.40/-0.47	-1.98/-0.79	-0.43/0.26	0.00/-0.48	-1.64/-3.55	-10.16/-11.88	-6.70/-2.61	-1.88/-1.86	-1.84/-1.24	-2.15/-7.89	-12.88/-6.35	-7.43/-12.31	-15.11/-9.40	-3.39/-1.03
Θ (165°)	-4.36/-5.98	-5.64/-4.58	-3.98/-3.21	-3.78/-4.14	-4.02/-1.14	0.90/2.21	2.10/2.08	1.81/0.98	-0.39/-1.42	-0.96/0.39	1.51/0.95	0.44/-1.17	-3.15/-5.02	-7.04/-7.23	-5.30/-4.46	-4.67/-3.63	-1.99/0.11	1.15/-1.06	-1.00/1.39	-1.71/-11.32	-7.20/-6.52	-7.66/-6.36	-4.12/-3.85	-4.68/-4.36
Θ (172.5°)	-2.82/-1.70	-0.48/-0.02	-0.60/-0.35	-0.01/-1.27	0.92/1.16	1.26/0.17	-0.10/-0.06	0.21/0.35	-0.31/-0.76	-1.03/-0.51	-0.62/0.40	0.57/0.66	0.23/0.26	0.19/0.31	0.08/-0.05	0.55/0.72	-0.00/0.28	-0.24/0.13	1.89/-2.42	-9.88/-4.68	-4.16/-7.61	-5.94/-2.95	-2.34/-2.46	-3.46/-3.37
Θ (180°)	0.90/0.20	-0.17/0.13	0.33/0.22	0.31/-1.05	-1.05/-0.20	-1.01/-0.71	-0.66/-0.32	0.31/0.41	0.26/0.62	0.71/0.69	1.05/1.08	1.06/0.86	0.47/0.13	0.23/0.09	0.58/0.11	0.32/0.44	0.13/0.83	1.66/2.15	-1.14/-9.37	-2.94/-1.71	-4.58/-5.70	-2.14/-0.89	-0.37/-0.90	-1.49/0.91
Freq[Hz]	6.475GPol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-1.56/-2.42	-2.30/-2.17	-2.75/-3.61	-3.34/-3.53	-3.30/-3.52	-4.02/-4.58	-4.05/-4.98	-3.87/-4.21	-4.51/-3.98	-3.87/-3.87	-3.70/-3.29	-3.65/-3.79	-3.34/-3.69	-3.65/-3.62	-3.80/-3.93	-3.96/-4.49	-4.66/-3.89	-4.88/-5.18	-4.48/-2.17	-2.07/-2.31	-3.49/-4.18	-3.45/-1.87	-3.48/-3.73	-2.31/-1.30
Θ (7.5°)	-3.79/-3.44	-4.80/-5.04	-4.60/-4.73	-5.55/-4.65	-5.83/-4.80	-5.08/-5.56	-4.80/-4.44	-3.89/-3.62	-3.37/-2.57	-2.30/-1.72	-1.38/-0.96	-1.09/-1.16	-1.12/-1.31	-1.59/-1.45	-1.83/-1.31	-1.81/-1.48	-2.68/-2.85	-3.18/-2.82	-6.35/-4.32	-2.66/-2.30	-2.59/-2.54	-3.16/-2.53	-2.63/-2.68	-2.90/-4.40
Θ (15°)	-2.84/-4.11	-1.87/-0.93	-2.15/-2.77	-4.12/-5.29	-5.95/-6.84	-8.71/-7.55	-5.68/-4.38	-3.92/-3.58	-3.09/-2.15	-1.60/-1.57	-1.32/-1.59	-1.89/-2.82	-3.24/-3.78	-3.78/-3.13	-2.82/-2.71	-3.45/-3.51	-2.72/-1.57	-3.24/-2.62	-4.69/-2.82	-4.04/-1.30	-1.82/-2.61	-3.43/-4.47	-2.72/-3.15	-5.21/-2.40
Θ (22.5°)	-8.43/-5.59	-3.77/-5.00	-3.74/-4.37	-6.15/-6.04	-5.31/-5.48	-5.73/-4.99	-5.41/-4.80	-3.00/-2.60	-2.86/-3.38	-3.38/-3.28	-2.56/-2.23	-1.53/-0.92	-1.63/-1.72	-3.18/-5.01	-6.79/-8.22	-4.73/-3.74	-5.82/-1.47	-4.19/-3.83	-4.67/-2.97	-3.02/-2.69	-1.20/-1.14	-3.34/-4.53	-2.65/-2.70	-2.13/-3.52
Θ (30°)	-2.85/-5.53	-8.77/-7.09	-6.34/-8.60	-7.80/-7.08	-4.83/-6.42	-8.95/-9.04	-8.07/-8.63	-5.56/-4.46	-3.87/-3.09	-2.75/-1.71	-0.24/-0.11	-0.38/-0.19	0.00/0.03	-0.56/-1.41	-2.10/-3.31	-4.65/-4.68	-7.81/-3.22	-3.51/-4.60	-6.63/-8.85	-4.77/-6.67	-6.86/-3.19	-2.89/-2.35	-1.96/-0.65	0.18/-0.51
Θ (37.5°)	-4.28/-8.14	-6.80/-8.05	-6.54/-7.90	-7.28/-6.33	-7.46/-9.97	-9.15/-9.02	-9.09/-5.76	-6.06/-4.76	-2.88/-1.68	-0.53/-1.40	-1.48/-0.28	-0.08/0.79	0.13/-1.52	-2.19/-3.68	-6.37/-4.41	-3.27/-6.14	-5.70/-5.86	-3.90/-8.35	-12.54/-5.86	-5.08/-2.93	0.27/-0.21	-0.82/-2.77	-5.76/-3.35	-1.56/-1.74
Θ (45°)	-8.16/-6.72	-4.48/-5.48	-10.23/-6.58	-5.96/-8.04	-9.89/-10.12	-12.23/-10.66	-9.98/-9.54	-7.20/-6.16	-3.65/-2.50	-1.65/0.17	1.17/0.79	0.44/0.52	0.82/0.11	-2.24/-3.63	-6.89/-4.46	-4.29/-5.89	-4.51/-6.23	-9.61/-11.28	-5.93/-2.19	-4.38/-2.36	-1.57/-2.17	-5.38/-8.84	-13.31/-9.12	-2.95/-1.58
Θ (52.5°)	-10.17/-7.24	-4.07/-11.66	-5.57/-5.45	-8.55/-1.77	-8.08/-12.17	-11.00/-9.80	-14.22/-14.22	-9.67/-5.54	-4.68/-1.87	-0.47/0.54	1.03/1.03	1.34/1.43	1.80/0.50	-0.64/-1.40	-7.34/-3.39	-1.24/-3.86	-6.65/-5.13	-9.18/-7.95	-6.62/-6.42	-2.24/-8.39	-1.81/-1.19	1.84/0.37	-1.58/-3.04	-1.02/-0.64
Θ (60°)	-2.24/-11.68	-6.94/-11.76	-6.45/-10.19	-6.64/-5.86	-14.88/-10.84	-8.17/-13.94	-11.85/-9.13	-10.47/-8.48	-3.73/-3.22	0.29/0.04	0.62/1.85	2.85/2.73	1.42/0.30	-0.51/-2.85	-4.89/-3.26	-2.99/-4.83	-4.08/-5.11	-5.25/-7.36	-1.167/-8.98	-3.48/-6.99	-0.71/-1.78	0.53/1.18	-1.99/-2.63	-3.70/-2.82
Θ (67.5°)	-1.84/-8.63	-5.14/-12.12	-8.93/-6.90	-6.04/-12.64	-12.96/-9.69	-8.74/-15.80	-13.18/-11.78	-9.74/-8.07	-6.23/-2.07	-0.39/0.97	1.22/2.46	3.06/2.01	0.77/0.34	-2.82/-4.40	-2.58/-2.69	-9.02/-4.77	-5.89/-10.89	-4.26/-6.65	-15.47/-9.88	-9.01/-2.63	-7.19/-1.85	-0.26/-0.87	0.06/-1.23	-3.21/-0.45
Θ (75°)	-0.42/-5.98	-6.33/-7.72	-9.99/-11.61	-10.90/-13.49	-7.35/-12.19	-10.82/-12.18	-6.87/-6.75	-6.03/-6.62	-0.45/-1.64	3.17/2.63	2.02/0.52	-1.19/-2.61	-3.19/-3.22	-0.97/-1.10	-5.80/-7.99	-10.26/-7.24	-4.65/-3.54	-2.85/-3.44	-2.76/-1.28	-2.00/-0.65	-2.46/-1.28	-0.58/-0.65	-1.58/-0.29	-1.58/-0.29
Θ (82.5°)	-1.20/-6.62	-7.19/-13.91	-9.71/-9.31	-9.59/-10.98	-14.26/-14.86	-9.72/-12.05	-10.67/-8.66	-6.69/-6.93	-5.10/-1.32	0.74/2.25	2.62/2.61	1.46/-0.30	-3.35/-3.31	-2.98/-2.16	-2.05/-1.19	-3.19/-4.65	-12.09/-9.46	-7.23/-9.09	-11.66/-12.22	-4.88/-0.78	-3.93/-0.19	-4.30/0.55	1.60/-5.74	-9.01/-0.93
Θ (90°)	0.84/-11.19	-15.04/-7.27	-6.27/-10.02	-14.57/-14.86	-13.81/-11.79	-10.47/-11.67	-6.65/-6.81	-5.33/-5.28	-10.86/-2.06	0.59/2.67	1.67/3.47	3.15/0.43	0.48/0.24	-4.26/-1.59	-1.72/-1.06	-4.72/-3.12	-15.99/-7.39	-5.74/-7.76	-9.91/-11.71	-4.15/-0.99	-3.54/-0.93	-8.34/-0.37	2.63/2.47	-7.06/-1.76
Θ (97.5°)	-3.86/-12.23	-7.79/-12.31	-15.89/-9.90	-10.56/-14.97	-10.52/-14.08	-8.71/-8.49	-7.70/-5.35	-5.69/-7.20	-6.83/-4.09	0.14/2.31	2.45/4.44	3.41/1.70	1.90/-1.58	-3.56/0.50	-0.707/-1.68	-7.83/-1.81	-5.52/-3.44	-7.58/-4.66	-10.07/-8.22	-11.86/0.63	-4.65/-4.04	-2.55/-1.41	2.94/-1.00	-10.58/-1.60
Θ (105°)	-8.07/-15.15	-13.84/-10.12	-12.55/-7.90	-7.41/-9.05	-9.31/-9.83	-10.62/-7.68	-7.11/-5.64	-7.10/-8.05	-6.13/-0.40	0.40/-1.82	2.15/0.74	3.39/-3.33	1.30/0.17	-3.90/-1.51	-3.11/-0.48	-3.33/-3.36	-7.16/-7.92	-8.21/-5.23	-6.19/-12.29	-9.42/-1.95	-5.33/-2.19	-6.36/-9.18	-3.07/-0.60	-4.56/-3.17
Θ (112.5°)	-3.22/-5.80	-7.17/-12.37	-14.91/-7.40	-10.23/-6.32	-9.96/-11.22	-8.98/-6.37	-8.99/-5.74	-6.62/-7.49	-6.82/-1.12	0.38/2.37	1.86/3.13	3.13/-1.73	1.50/-0.05	-1.95/-2.65	-2.88/-2.38	-1.71/-2.09	-4.35/-9.46	-6.94/-2.78	-8.08/-8.31	-11.80/-3.62	-3.30/-6.37	-5.35/-5.37	-1.89/-0.09	-0.69/-2.76
Θ (120°)	-8.91/-6.79	-5.60/-10.54	-5.20/-8.41	-7.84/-6.98	-8.77/-9.86	-10.47/-8.07	-9.68/-7.10	-6.60/-7.92	-2.82/-0.78	0.81/3.21	2.04/3.26	2.85/0.71	0.59/-0.57	-3.02/-3.57	-2.67/-4.23	-2.26/-2.70	-3.63/-0.06	-3.08/-2.58	-7.57/-13.61	-7.13/-3.14	-6.95/-0.20	-3.37/-1.03	-4.07/-2.01	-3.60/-10.64
Θ (127.5°)	-14.58/-15.15	-14.58/-10.54	-7.21/-2.67	-3.23/-5.01	-9.51/-9.58	-12.11/-8.21	-9.08/-6.04	-8.56/-5.17	-0.18/-0.87	-0.13/3.32	1.63/4.21	3.38/0.03	-0.48/0.68	-1.37/-2.33	-3.43/-3.33	-3.16/-2.24	-4.96/-6.45	-4.92/-3.00	-7.62/-11.05	-6.29/-6.67	-3.03/-5.97	-3.84/-3.76	-2.68/-2.66	-6.20/-13.30
Θ (135°)	-13.75/-9.58	-12.48/-14.30	-12.16/-8.64	-6.06/-6.60	-10.18/-14.98	-11.04/-6.21	-10.49/-5.31	-6.85/-2.98	0.19/-0.63	0.53/3.08	-0.42/-1.04	4.46/2.75	0.20/0.47	0.24/-0.72	-3.56/-4.23	-0.88/-3.67	-9.06/-7.80	-2.94/-1.36	-6.99/-8.80	-8.18/-7.93	-3.72/-5.55	-3.35/-9.70	-2.38/-3.28	-3.78/-8.28
Θ (142.5°)	-11.58/-13.56	-12.34/-12.97	-10.29/-14.30	-13.62/-8.29	-10.03/-8.31	-12.59/-7.07	-4.27/-5.42	-3.47/-7.72	-0.99/-1.16	2.60/3.06	0.25/-0.15	1.07/-0.20	-2.49/-2.23	-5.76/-3.77	-3.59/-2.84	-4.17/-3.68	-7.48/-7.18	-2.40/-3.04	-2.29/-8.49	-15.09/-7.00	-10.45/-11.31	-12.14/-11.28	-8.02/-6.28	-7.21/-13.74
Θ (150°)	-14.27/-15.35	-7.78/-4.59	-6.53/-8.33	-8.11/-4.14	-3.74/-6.77	-7.98/-4.48	-3.02/-1.43	-1.52/-1.97	-1.73/-0.62	0.52/3.23	3.22/1.24	1.39/1.88	2.09/-1.25	0.62/0.22	-0.04/-1.34	-6.22/-10.23	-7.62/-5.30	-2.54/-0.95	-2.66/-6.51	-2.70/-4.91	-12.25/-7.88	-7.14/-5.84	-7.64/-9.66	-14.35/-13.14
Θ (157.5°)	-3.83/-7.46	-11.78/-15.81	-16.09/-15.01	-4.47/-5.68	-8.20/-7.04	-2.84/-1.07	-0.90/-0.59	-0.43/-1.67	-3.64/-1.58	0.68/0.89	-0.74/-1.04	0.34/1.43	2.15/-1.40	0.42/-1.01	-1.57/-1.06	-4.10/-8.60	-7.73/-2.79	-2.20/-1.86	-0.98/-1.23	-0.02/-5.89	-1.15/-3.77	-6.26/-10.04	-16.00/-15.63	-6.98/-3.91
Θ (165°)	-6.62/-7.01	-5.28/-3.35	-2.80/-3.21	-4.60/-4.54	-2.32/-0.83	-0.21/-0.19	-0.71/-0.52	-1.57/-1.40	-0.45/0.73	1.10/0.69	0.40/-1.73	-4.46/-6.83	-6.94/-6.52	-5.72/-6.72										

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

