



Antenna Pattern of 6GHz

Appendix G

Total Gain Data

Freq(Hz)	6.175G/Pol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-6.94/-6.61	-6.07/-5.86	-6.01/-6.01	-6.09/-6.75	-7.26/-4.75	-7.37/-4.72	-7.39/-7.04	-7.21/-8.10	-7.52/-7.42	-7.85/-7.87	-7.41/-7.16	-6.95/-7.23	-7.15/-7.79	-7.63/-7.22	-7.31/-6.78	-7.28/-7.76	-6.96/-6.61	-7.35/-7.02	-6.58/-6.68	-7.30/-6.85	-6.32/-6.17	-6.03/-5.81	-6.21/-6.67	-6.93/-7.27
Θ(7.5°)	-4.18/-3.98	-4.12/-4.24	-4.54/-4.15	-4.26/-4.48	-4.12/-3.55	-3.64/-3.94	-4.27/-4.05	-4.85/-5.03	-5.23/-5.33	-5.16/-5.27	-5.70/-6.44	-7.56/-8.19	-8.08/-8.69	-7.56/-6.62	-6.75/-8.25	-9.87/-10.84	-8.46/-8.43	-9.87/-10.84	-10.33/-9.80	-8.76/-8.25	-6.62/-6.27	-5.66/-4.82	-4.39/-4.53	-4.43/-4.26
Θ(15°)	-3.00/-2.48	-1.95/-1.81	-2.17/-2.41	-3.42/-4.38	-4.51/-4.53	-3.66/-2.84	-2.84/-4.00	-4.88/-5.71	-6.80/-8.45	-10.33/-11.24	-8.87/-7.41	-6.39/-7.53	-8.72/-9.08	-10.12/-8.97	-7.16/-7.27	-7.89/-8.72	-9.51/-8.01	-6.72/-6.07	-5.62/-4.56	-3.60/-3.01	-3.37/-3.90	-5.63/-6.42	-6.34/-6.26	-5.28/-3.99
Θ(22.5°)	-3.83/-2.59	-2.08/-2.49	-3.16/-2.91	-1.76/-3.04	0.85/-1.20	0.18/-1.34	-2.69/-3.42	-2.94/-2.69	-2.31/-2.64	-4.21/-6.59	-11.83/-10.73	-6.43/-5.40	-6.49/-7.68	-6.68/-5.11	-4.66/-6.18	-9.43/-9.13	-6.17/-3.54	-2.18/-1.45	-1.23/-1.78	-2.58/-3.06	-2.71/-2.47	-2.13/-2.04	-3.12/-5.22	-7.15/-5.93
Θ(30°)	-2.49/-1.42	-2.01/-4.29	-4.83/-3.59	-2.12/-1.92	-3.09/-3.58	-2.90/-2.85	-0.96/-1.02	0.93/-0.02	-0.55/-1.07	-2.55/-4.12	-5.11/-5.61	-5.22/-5.34	-8.32/-12.60	-8.17/-6.24	-7.31/-5.75	-3.76/-2.72	-3.09/-4.67	-6.60/-7.07	-5.23/-3.73	-2.31/-2.01	-2.30/-1.83	-0.17/-0.76	0.21/-1.67	-2.67/-2.43
Θ(37.5°)	-4.13/-3.71	-3.68/-7.04	-8.19/-7.93	-6.39/-4.85	-1.64/-1.19	2.23/-2.16	2.44/-2.32	0.80/-1.44	-1.92/-1.18	-1.85/-5.20	-5.15/-4.45	-5.66/-9.46	-12.70/-5.36	-2.42/-2.67	-3.80/-3.01	-2.21/-3.54	-7.11/-7.68	-7.92/-10.51	-11.46/-9.92	-5.67/-2.87	-2.04/-2.13	-1.18/-0.76	1.05/-0.00	-0.24/-1.13
Θ(45°)	-3.79/-5.77	-4.73/-5.00	-5.14/-7.76	-4.51/-1.89	1.69/-3.45	1.18/-0.91	1.76/-3.59	2.36/-0.21	-2.09/-0.44	0.07/-1.94	-2.61/-2.46	-3.82/-3.51	-4.49/-2.42	-2.28/-1.92	-3.07/-5.70	-3.91/-4.04	-6.69/-4.81	-2.79/-2.52	-2.32/-3.22	-5.46/-4.83	-3.00/-2.47	-3.82/-3.00	2.86/-2.17	1.31/-0.91
Θ(52.5°)	-3.02/-3.04	-2.91/-2.06	-3.47/-5.75	-2.18/-1.28	1.90/-2.61	0.04/-3.32	3.55/-4.28	3.19/-1.83	-0.07/-0.43	-1.02/-1.87	-0.43/-2.88	-4.17/-1.25	-0.98/-0.17	-3.58/-0.93	-2.10/-4.52	-2.50/-2.90	-6.10/-2.91	-2.07/-2.92	-2.04/-1.86	-4.50/-3.80	-0.81/-0.06	-1.56/-2.04	1.30/-1.83	1.40/-0.19
Θ(60°)	-1.33/-0.16	-1.24/-0.91	-3.90/-1.64	-0.50/-0.23	2.45/-3.1	4.18/-3.03	2.74/-0.98	1.49/-1.69	-0.07/-0.09	-0.02/-2.20	-1.08/-2.25	-4.73/-2.34	-2.04/-0.45	-4.31/-0.93	-2.22/-3.75	-1.64/-1.80	-5.32/-2.20	-1.13/-3.15	-3.72/-4.02	-4.02/-2.10	0.59/-0.05	-1.08/-0.42	-2.25/-1.06	-1.21/-3.96
Θ(67.5°)	-3.38/-1.18	-0.57/-0.22	-1.04/-2.17	-0.86/-1.05	3.09/-5.49	5.03/-4.48	1.42/-1.24	4.01/-2.30	-0.17/-1.27	2.14/-0.97	-0.68/-3.48	-3.65/-1.96	-3.63/-4.04	-2.81/-0.13	-1.96/-0.68	-0.64/-2.47	-3.16/-0.64	-0.72/-1.67	-2.04/-5.19	-3.62/-2.09	-0.40/-1.12	-2.68/-0.15	-1.63/-1.89	-1.07/-5.35
Θ(75°)	-4.00/-2.44	-1.07/-0.10	-0.88/-5.40	-1.70/-0.90	2.43/-5.59	4.78/-4.21	2.13/-2.72	5.26/-2.07	-0.71/-0.22	2.78/-0.95	-0.53/-2.92	-5.80/-0.22	5.31/-2.14	-2.13/-1.40	-1.49/-0.44	0.59/-1.39	-0.52/-1.37	-0.13/-0.94	-0.05/-3.11	-2.05/-0.82	-0.34/-0.63	-2.52/-0.25	-1.43/-2.63	-1.16/-4.77
Θ(82.5°)	-4.11/-2.79	-1.80/-0.27	-0.81/-7.03	-3.70/-0.19	0.81/-4.96	4.06/-4.1	1.92/-3.47	4.39/-0.04	-0.16/-2.04	1.43/-4.18	-1.67/-5.33	-3.06/-0.13	-3.73/-2.89	-2.27/-2.50	-1.22/-0.05	-2.17/-0.07	1.81/-1.47	0.15/-1.48	0.35/-2.63	-1.71/-0.42	-1.72/-0.43	-1.72/-0.25	-2.77/-3.24	-0.49/-3.96
Θ(90°)	-3.94/-3.71	-2.67/-1.74	-2.00/-7.98	-5.02/-2.82	-3.43/-2.00	2.70/-3.97	1.83/-2.74	2.26/-2.35	-0.95/-0.91	-0.55/-7.19	-2.46/-2.62	-4.99/-2.04	-2.42/-6.58	-3.00/-5.30	-3.08/-1.12	-3.11/-1.62	2.12/-4.08	0.30/-3.90	-1.72/-1.71	-2.67/-1.61	-1.13/-0.12	-1.89/-1.36	-3.66/-2.80	-1.13/-5.16
Θ(97.5°)	-4.33/-3.89	-3.91/-3.26	-2.03/-6.70	-7.60/-4.86	-7.10/-1.30	0.94/-1.91	1.41/-0.88	-1.95/-5.52	-1.96/-2.01	-5.41/-9.94	-2.75/-6.45	-4.09/-1.71	-4.07/-6.91	-3.08/-6.36	-5.60/-4.40	-4.86/-2.76	-0.94/-6.83	-3.11/-2.37	-5.94/-5.23	-1.76/-1.96	-2.29/-2.91	-5.31/-1.66	-1.32/-4.76	
Θ(105°)	-4.54/-3.47	-5.04/-5.17	-1.79/-6.08	-6.59/-5.60	-6.68/-4.45	-2.90/-2.15	0.46/-3.04	-8.55/-3.13	-1.81/-4.20	-9.79/-6.39	-5.57/-4.32	-4.42/-5.42	-8.29/-8.91	-4.17/-6.96	-9.80/-5.90	-5.24/-4.55	-2.35/-6.94	0.14/-6.03	-3.35/-3.38	-5.80/-4.69	-2.49/-1.50	-3.74/-4.24	-5.72/-2.46	-2.67/-5.37
Θ(112.5°)	-7.03/-8.20	-5.64/-6.05	-3.18/-8.27	-3.94/-5.18	-5.45/-3.86	-4.50/-2.43	0.66/-3.48	-4.97/-2.39	-3.17/-6.00	-6.04/-6.14	-5.95/-6.42	-6.97/-8.47	-9.70/-5.90	-5.63/-3.30	-9.31/-4.45	-4.56/-2.21	-2.58/-8.27	-1.32/-5.93	-3.22/-4.46	-9.95/-5.72	-2.03/-1.58	-2.15/-7.94	-8.56/-2.43	-4.63/-5.72
Θ(120°)	-13.55/-8.17	-8.18/-7.70	-2.96/-8.75	-5.80/-5.65	-7.45/-4.64	-5.34/-2.60	-2.05/-5.22	-3.58/-4.50	-6.43/-9.26	-11.76/-11.12	-11.42/-7.72	-8.58/-10.08	-9.24/-5.67	-7.63/-9.82	-14.74/-5.47	-5.16/-3.30	-2.01/-10.58	-4.58/-4.86	-4.65/-4.57	-5.40/-6.13	-6.13/-1.55	-5.20/-9.87	-8.21/-3.76	-1.64/-4.79
Θ(125°)	-9.22/-5.08	-7.87/-10.75	-10.94/-6.13	-8.22/-10.50	-9.13/-9.09	-13.42/-8.71	-8.70/-6.21	-7.81/-7.53	-12.00/-14.47	-14.08/-11.24	-13.82/-12.56	-11.49/-14.70	-13.98/-6.31	-13.26/-15.32	-9.20/-3.99	-2.78/-5.01	-4.33/-2.22	-3.86/-5.19	-6.21/-7.38	-6.21/-2.81	-6.88/-7.35	-9.48/-5.55	-3.83/-3.06	
Θ(135°)	-12.95/-10.24	-10.69/-9.35	-9.92/-7.82	-5.69/-5.55	-10.59/-16.02	-11.28/-8.17	-5.96/-5.35	-7.31/-8.30	-7.52/-13.48	-10.98/-9.81	-9.28/-10.36	-11.13/-14.90	-8.60/-7.59	-7.79/-12.14	-12.89/-3.89	-6.25/-12.18	-3.54/-6.34	-6.94/-6.60	-0.90/-9.53	-7.20/-7.07	-8.61/-5.67	-4.62/-11.31	-8.19/-8.99	-7.00/-6.71
Θ(142.5°)	-10.38/-6.23	-12.31/-13.89	-9.47/-11.12	-7.97/-7.55	-8.94/-8.74	-14.55/-12.03	-9.77/-12.26	-13.71/-15.81	-14.01/-15.61	-8.33/-8.08	-13.80/-10.77	-15.18/-13.45	-10.25/-9.57	-6.16/-7.11	-6.71/-10.71	-12.87/-10.11	-6.08/-11.71	-9.87/-6.20	-2.99/-13.07	-10.70/-7.78	-10.59/-15.98	-11.44/-7.47	-13.41/-8.71	-3.79/-6.09
Θ(150°)	-7.83/-5.43	-9.36/-10.26	-5.81/-5.48	-10.84/-15.43	-10.15/-9.32	-12.45/-14.22	-12.85/-10.93	-11.21/-13.22	-12.13/-9.65	-11.22/-14.33	-12.44/-12.39	-11.70/-14.96	-6.81/-7.62	-9.54/-10.58	-13.36/-11.99	-10.69/-14.04	-11.06/-6.09	-3.98/-7.08	-14.43/-14.48	-12.56/-7.92	-8.34/-9.43	-11.44/-8.80	-7.75/-12.08	
Θ(157.5°)	-8.36/-6.86	-9.35/-12.79	-9.80/-7.52	-8.20/-11.03	-13.99/-15.92	-12.83/-10.36	-10.61/-13.83	-14.48/-14.14	-15.89/-15.70	-15.67/-11.13	-11.80/-10.77	-12.59/-13.03	-8.31/-7.70	-7.76/-8.21	-10.29/-13.44	-11.96/-14.14	-15.01/-15.53	-14.36/-9.68	-7.69/-9.96	-12.92/-14.86	-15.92/-14.61	-15.46/-15.24	-15.84/-9.31	-6.92/-8.75
Θ(165°)	-13.34/-13.37	-13.60/-13.73	-10.98/-9.13	-6.25/-5.39	-5.53/-6.94	-6.59/-6.51	-7.31/-8.73	-7.98/-8.55	-11.03/-13.26	-14.23/-13.98	-15.65/-15.53	-14.03/-12.43	-11.61/-10.32	-9.86/-10.61	-11.98/-11.69	-11.44/-11.58	-9.87/-7.94	-7.59/-7.24	-7.41/-8.15	-9.42/-11.82	-14.23/-13.35	-11.34/-8.37	-7.18/-7.17	-7.94/-10.73
Θ(172.5°)	-11.32/-11.95	-12.37/-12.16	-13.71/-14.10	-11.61/-11.13	-10.76/-9.43	-8.68/-8.51	-7.81/-7.47	-7.23/-7.72	-7.81/-8.08	-8.92/-11.01	-13.25/-14.30	-15.22/-14.97	-13.91/-11.67	-9.42/-10.74	-6.55/-5.73	-5.65/-5.71	-5.68/-5.42	-5.65/-5.71	-5.68/-5.42	-5.65/-5.71	-9.18/-9.27	-11.71/-9.90	-7.19/-7.83	-8.88/-9.73
Θ(180°)	-13.66/-13.50	-12.70/-12.14	-12.89/-13.01	-11.62/-10.14	-9.74/-9.63	-10.27/-11.62	-12.59/-12.49	-11.52/-10.61	-11.18/-10.73	-8.94/-7.73	-7.83/-7.63	-7.68/-8.10	-7.94/-8.18	-8.33/-8.86	-9.01/-9.05	-8.25/-8.95	-8.84/-9.53	-9.86/-9.58	-9.44/-9.16	-8.17/-10.60	-12.09/-13.41	-13.63/-12.99	-13.31/-15.00	-14.63/-14.89
Freq(Hz)	6.475G/Pol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-3.96/-4.81	-4.84/-5.14	-5.29/-5.08	-4.67/-4.95	-4.86/-4.70	-4.70/-4.71	-4.94/-5.05	-5.47/-5.77	-5.73/-5.57	-5.55/-5.47	-5.19/-5.22	-4.86/-4.57	-4.00/-3.90	-3.71/-3.79	-4.34/-4.32	-4.29/-3.95	-3.94/-3.93	-3.60/-3.50	-3.65/-3.76	-3.91/-4.01	-3.87/-3.89	-3.97/-4.15	-4.53/-4.58	-3.94/-4.08
Θ(7.5°)	-3.17/-3.16	-2.82/-2.65	-2.10/-1.84	-1.71/-2.02	-1.85/-2.08	-2.28/-2.71	-3.43/-3.80	-4.14/-4.50	-5.00/-5.36	-5.04/-4.98	-4.98/-5.69	-6.30/-8.27	-7.30/-8.27	-9.16/-11.53	-12.88/-13.43	-13.90/-13.95	-12.11/-10.18	-10.00/-9.78	-8.76/-7.47	-8.06/-8.83	-8.17/-7.21	-6.68/-6.15	-5.79/-5.04	-3.77/-3.62
Θ(15°)	-4.95/-4.78	-3.87/-2.78	-2.21/-1.61	-1.33/-1.69	-2.36/-3.15	-4.04/-4.48	-3.30/-2.07	-2.18/-2.52	-2.42/-2.58	-2.67/-2.45	-2.71/-2.80	-2.87/-4.86	-6.73/-8.00	-9.35/-8.50	-9.21/-9.69	-9.27/-8.78	-6.74/-5.51	-4.08/-3.58	-3.05/-3.68	-6.60/-8.16	-8.45/-7.55	-6.27/-5.10	-4.42/-4.83	-5.57/-5.79
Θ(22.5°)	-4.80/-2.84	-1.66/-1.08	-1.37/-1.57	-2.48/-2.77	-1.98/-1.30	-0.71/-0.19	0.87/-0.74	0.38/-0.52	-1.99/-3.48	-5.15/-6.96	-7.67/-6.34	-3.81/-5.65	-8.78/-8.73	-7.92/-8.77	-11.79/-10.80	-7.92/-6.63	-6.81/-8.03	-8.35/-7.86	-7.32/-8.67	-9.86/-7.50	-4.91/-3.04	-1.51/-1.11	-1.74/-3.04	-4.50/-5.36
Θ(30°)	-3.81/-7.45	-5.04/-2.83	-1.94/-3.23	-3.43/-1.32	-1.28/-2.74	-1.88/-0.77	1.57/-0.67	-0.18/-0.28	0.01/-1.47	-2.45/-2.51	-3.31/-6.84	-5.76/-5.40	-5.68/-7.41	-7.99/-7.62	-4.49/-1.79	-1.60/-2.86	-3.34/-5.88	-9.16/-11.53	-12.10/-12.26	-7.70/-7.31	-2.68/-3.54	-5.16/-4.57	-2.62/-1.54	-1.22/-1.76
Θ(37.5°)	-2.07/-3.65	-7.20/-6.05	-4.73/-6.77	-4.20/-1.06	-3.91/-3.24	1.00/-2.65	2.52/-1.63	0.78/-0.10	0.77/-0.24	-1.69/-1.44	-1.97/-4.41	-6.83/-7.04	-4.64/-4.24	-5.87/-3.08	-0.08/-0.7									

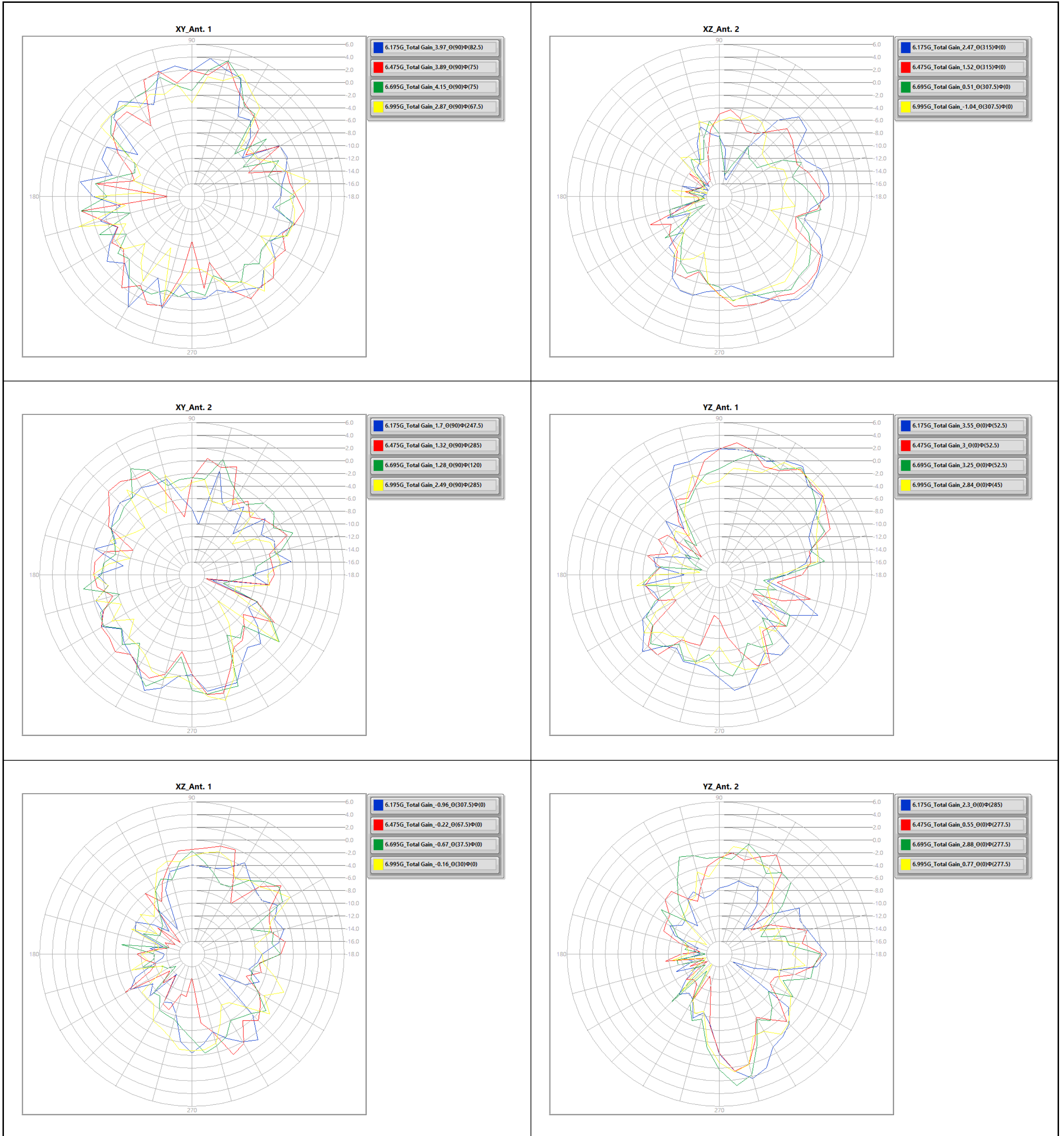


Antenna Pattern of 6GHz

Appendix G

Θ(22.5°)	-3.31/-2.81	-3.33/-4.30	-5.26/-5.04	-3.72/-3.28	-4.38/-5.47	-5.55/-4.90	-4.21/-4.01	-4.32/-3.67	-3.59/-4.51	-5.36/-6.07	-5.10/-2.71	-1.27/-0.56	-0.76/-1.71	-2.71/-3.13	-3.89/-6.00	-7.81/-9.10	-10.35/-10.39	-9.56/-10.93	-12.09/-11.21	-8.79/-7.42	-6.31/-5.44	-3.70/-2.46	-2.48/-2.85	-3.71/-3.80
Θ(30°)	-4.04/-2.80	-2.90/-3.96	-6.21/-5.15	-4.32/-4.68	-4.86/-5.49	-5.50/-4.08	-3.43/-2.29	-2.29/-3.61	-4.32/-6.34	-8.02/-7.16	-4.84/-1.79	0.07/1.00	0.76/-0.29	-0.46/-1.90	-3.96/-5.05	-3.93/-5.75	-9.84/-8.89	-9.21/-12.46	-15.41/-14.08	-11.13/-7.57	-5.35/-3.90	-3.05/-1.52	0.43/-1.30	0.25/-3.29
Θ(37.5°)	-0.66/-2.41	-4.08/-0.41	-2.36/-0.86	-0.48/-0.27	-0.39/-2.27	-5.73/-8.25	-7.62/-5.35	-5.09/-5.51	-6.07/-5.88	-5.78/-7.35	-4.60/-2.19	-0.31/1.68	1.67/0.61	0.91/-0.29	-3.04/-1.90	-1.62/-4.94	-6.95/-6.29	-7.00/-7.10	-4.25/-2.26	-2.50/-3.57	-3.92/-2.71	-1.27/-1.17	-0.09/-0.25	-0.26/-1.30
Θ(45°)	-0.20/-3.46	-6.05/-2.43	-1.16/-0.36	0.54/1.00	-0.02/-1.71	-5.87/-11.37	-12.73/-6.01	-3.19/-4.30	-7.13/-5.22	-2.28/-1.83	-0.85/-1.82	-0.44/-1.96	2.47/1.19	1.93/0.54	-3.84/0.31	0.56/-1.90	-2.86/-3.32	-5.20/-3.67	-2.42/-0.70	0.50/0.56	-1.67/-0.78	0.69/0.70	0.02/-0.35	-2.74/-0.81
Θ(52.5°)	-2.85/-6.06	-6.11/-2.49	-4.64/-3.42	-1.39/-0.24	-0.82/-0.63	-3.48/-6.73	-8.25/-5.90	-5.00/-3.95	-2.02/-2.93	-2.70/-2.57	-0.92/-0.01	0.30/2.25	2.42/1.01	-0.42/-1.73	-3.05/-0.01	-1.26/-1.61	-0.70/-1.68	-1.92/-1.00	-1.58/-0.94	1.38/0.05	-0.51/-2.59	-0.27/-0.28	0.10/-2.39	-4.26/-2.87
Θ(60°)	-9.24/-6.22	-6.24/-4.72	-10.48/-6.22	-3.31/-1.08	-0.21/0.19	-0.63/-2.24	-5.78/-8.74	-0.63/-2.24	-1.51/-0.68	-1.04/-2.30	-1.79/-1.41	0.55/0.97	1.08/0.03	-2.20/-2.23	-1.62/-1.60	-2.55/-1.37	-1.22/-1.88	-0.83/-0.37	-1.10/-2.65	-0.97/0.81	-1.34/-2.10	0.62/0.18	-1.03/-4.54	-5.43/-6.33
Θ(67.5°)	-15.22/-6.10	-4.78/-5.78	-15.64/-5.63	-5.52/-2.48	-0.43/-0.76	-0.85/-4.52	-6.36/-5.28	-4.94/-2.95	-2.36/-1.13	-0.78/-1.85	-1.29/-1.99	0.70/-0.98	-0.78/-2.45	-1.33/0.19	-0.80/-2.30	-0.87/0.56	-0.83/-0.62	0.36/0.16	1.38/-0.31	-1.15/-1.44	-0.25/-1.00	2.26/0.33	-2.60/-5.31	-10.01/-9.02
Θ(75°)	-14.75/-4.56	-3.88/-4.28	-10.41/-4.57	-7.18/-4.04	-2.79/-2.88	-1.95/-4.94	-6.09/-3.44	-2.28/-2.02	-1.37/-2.26	-1.32/-1.96	-0.72/-4.69	-0.75/-2.43	-2.65/-3.34	-0.45/-0.04	-0.17/-1.37	-0.01/0.95	-1.75/0.83	0.21/-1.29	2.30/1.71	0.23/-0.07	0.54/-2.22	2.62/-1.27	-4.60/-8.12	-14.40/-10.65
Θ(82.5°)	-10.40/-3.38	-4.05/-3.33	-6.52/-3.31	-8.16/-4.72	-5.37/-4.95	-1.54/-7.52	-7.17/-4.91	-1.72/-1.98	-1.42/-2.65	-1.99/-2.27	-1.95/-4.99	-1.48/-4.68	-3.76/-4.19	-0.42/-0.97	-0.98/-2.50	-0.77/0.57	-0.58/-2.12	-0.14/-2.75	0.59/2.41	0.92/2.53	0.31/-3.78	0.51/-3.16	-6.97/-8.83	-14.92/-7.45
Θ(90°)	-8.53/-2.28	-4.44/-3.96	-5.38/-3.48	-8.87/-4.53	-6.39/-5.51	-1.00/-9.95	-7.82/-5.84	-2.41/-2.62	-2.16/-2.62	-1.92/-2.58	-3.36/-5.02	-2.18/-7.03	-3.14/-4.67	-2.27/-2.79	-1.60/-4.02	-2.90/-2.19	-1.25/-1.70	0.44/-1.92	-2.24/0.51	0.28/0.40	-2.09/-3.58	-2.61/-4.95	-7.74/-6.84	-15.02/-5.96
Θ(97.5°)	-8.13/-2.30	-5.34/-4.63	-5.46/-4.02	-10.14/-5.68	-5.84/-4.64	-0.91/-8.93	-8.59/-6.75	-3.01/-4.10	-2.74/-3.28	-2.48/-2.48	-4.77/-4.27	-4.51/-6.38	-2.86/-3.16	-2.46/-5.73	-3.96/-5.67	-3.23/-4.17	-3.74/-0.81	-0.83/-1.63	-6.89/-3.91	-2.90/-1.59	-7.27/-5.45	-6.34/-5.59	-7.66/-5.91	-13.47/-7.26
Θ(105°)	-6.59/-5.20	-6.15/-5.10	-7.05/-5.95	-10.19/-6.89	-5.97/-2.98	-1.05/-7.45	-8.94/-6.24	-7.42/-5.75	-3.20/-3.06	-3.17/-3.40	-4.40/-3.90	-1.87/-3.05	-3.69/-4.30	-4.96/-7.57	-7.13/-5.64	-7.59/-5.17	-6.00/-6.86	-8.47/-11.07	-9.25/-4.08	-8.02/-4.55	-6.45/-8.47	-7.30/-9.99	-12.20/-11.73	
Θ(112.5°)	-8.88/-9.14	-11.49/-7.71	-7.00/-7.42	-9.20/-8.88	-7.76/-2.89	-3.48/-6.86	-7.40/-5.69	-7.39/-6.59	-5.42/-4.75	-4.83/-4.39	-5.61/-4.18	-6.09/-4.02	-1.88/-2.64	-3.57/-3.87	-4.90/-8.75	-9.23/-12.80	-9.54/-8.81	-7.90/-9.60	-7.06/-6.64	-10.40/-5.98	-4.82/-7.66	-4.88/-14.04	-13.33/-14.06	-9.63/-11.19
Θ(120°)	-11.85/-10.13	-11.48/-10.96	-7.15/-8.63	-9.18/-10.17	-9.23/-5.04	-7.00/-9.87	-8.02/-8.31	-8.75/-5.58	-8.26/-7.84	-7.74/-6.99	-7.28/-5.07	-5.59/-7.97	-3.20/-3.60	-4.88/-4.67	-7.00/-7.74	-14.53/-11.11	-8.57/-8.09	-7.08/-6.76	-9.67/-6.75	-4.10/-11.61	-9.20/-13.24	-7.79/-12.02	-14.25/-11.50	-9.11/-10.51
Θ(127.5°)	-12.27/-11.81	-10.39/-12.43	-10.71/-11.54	-10.80/-8.78	-8.69/-7.90	-5.24/-8.07	-12.40/-12.40	-7.52/-8.01	-9.12/-9.60	-8.21/-9.25	-9.95/-7.43	-7.63/-9.04	-6.45/-5.23	-6.63/-10.76	-10.33/-7.88	-10.96/-6.34	-9.74/-12.14	-8.70/-5.23	-10.23/-12.03	-6.63/-10.00	-13.51/-10.82	-10.69/-9.61	-9.77/-10.61	-11.23/-11.88
Θ(135°)	-15.77/-13.32	-9.87/-11.53	-12.41/-12.36	-11.22/-9.35	-10.66/-7.72	-7.33/-8.40	-10.48/-10.48	-8.01/-8.49	-8.72/-9.89	-7.27/-8.83	-10.45/-10.40	-7.36/-6.83	-6.79/-7.46	-6.80/-7.29	-10.62/-12.80	-12.37/-7.75	-14.85/-9.42	-12.70/-7.91	-9.02/-10.08	-10.06/-9.57	-9.52/-11.48	-12.14/-9.85	-13.99/-10.88	-10.05/-14.83
Θ(142.5°)	-15.06/-15.77	-15.72/-14.67	-14.91/-13.65	-14.10/-11.56	-9.47/-9.04	-8.41/-8.48	-10.59/-11.34	-9.77/-10.93	-10.34/-10.39	-8.08/-8.69	-13.36/-13.62	-11.20/-11.13	-11.73/-11.39	-8.47/-8.54	-10.61/-14.73	-11.66/-9.51	-13.95/-15.18	-15.30/-13.93	-11.34/-10.77	-8.65/-9.05	-10.94/-10.69	-10.21/-15.17	-13.31/-14.10	-10.62/-13.49
Θ(150°)	-16.02/-14.32	-15.35/-15.24	-14.78/-15.64	-13.22/-12.88	-11.17/-9.41	-8.74/-9.18	-9.02/-10.54	-9.17/-11.21	-11.25/-10.89	-11.33/-12.77	-14.17/-12.26	-10.95/-12.92	-12.63/-10.93	-9.01/-6.67	-10.98/-12.27	-16.25/-15.23	-15.95/-15.46	-13.95/-15.68	-13.78/-12.16	-15.33/-14.05	-15.27/-12.62	-10.51/-13.52	-15.18/-14.57	-15.60/-15.02
Θ(157.5°)	-14.68/-14.03	-11.79/-11.32	-12.99/-11.34	-10.24/-10.77	-12.54/-12.54	-15.05/-12.64	-10.41/-10.51	-10.27/-10.61	-10.45/-10.04	-10.03/-11.60	-14.11/-14.40	-10.46/-8.14	-9.14/-9.24	-7.63/-9.61	-10.94/-14.89	-14.90/-13.32	-14.14/-14.76	-15.06/-14.86	-10.72/-10.42	-12.71/-14.12	-13.99/-13.18	-14.54/-14.47	-13.20/-14.00	-14.24/-15.45
Θ(165°)	-11.75/-12.18	-13.11/-13.63	-12.63/-11.01	-9.81/-10.83	-12.10/-14.38	-15.18/-15.44	-14.64/-15.97	-14.73/-13.76	-11.85/-10.99	-1.08/-11.58	-12.19/-12.93	-13.21/-13.05	-11.76/-11.47	-13.64/-14.38	-13.90/-15.22	-12.70/-11.50	-12.00/-12.43	-13.16/-13.27	-13.73/-15.64	-15.26/-14.22	-13.17/-14.25	-15.53/-13.18	-10.96/-12.52	-10.87/-12.27
Θ(172.5°)	-15.89/-14.47	-14.47/-13.85	-13.04/-11.81	-11.74/-12.71	-13.89/-14.33	-14.42/-13.62	-13.92/-12.96	-12.50/-11.91	-11.81/-11.73	-10.67/-10.72	-11.63/-11.53	-12.91/-15.65	-15.77/-15.03	-15.02/-14.46	-14.27/-15.21	-15.41/-16.17	-15.22/-14.14	-13.62/-10.47	-12.47/-13.22	-13.90/-12.16	-11.33/-11.07	-10.20/-10.40	-12.80/-13.55	-12.99/-15.33
Θ(180°)	-15.12/-13.96	-15.20/-14.96	-14.59/-12.90	-13.82/-14.78	-14.93/-15.93	-14.59/-14.51	-15.11/-13.50	-13.79/-13.85	-13.47/-14.83	-15.12/-15.31	-15.10/-15.35	-15.47/-15.75	-14.39/-12.66	-13.16/-14.27	-14.36/-14.81	-14.06/-13.64	-14.37/-13.49	-14.69/-14.81	-16.34/-13.26	-13.73/-13.50	-13.05/-13.46	-14.61/-15.18	-14.71/-14.14	
Freq(Hz)	6.475GPdL	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°)	-1.46/-1.77	-1.78/-1.88	-2.16/-1.97	-1.85/-1.77	-1.49/-1.86	-2.15/-1.79	-1.71/-1.99	-1.89/-1.73	-1.71/-1.81	-1.83/-1.49	-1.59/-1.66	-2.18/-2.39	-2.12/-1.76	-1.99/-2.11	-2.28/-2.20	-2.04/-1.67	-2.06/-2.28	-2.16/-1.93	-2.24/-2.20	-2.72/-2.31	-1.78/-2.07	-2.48/-2.01	-1.79/-1.81	-1.71/-1.50
Θ(7.5°)	-2.49/-2.83	-3.30/-3.89	-4.11/-4.13	-3.80/-3.86	-4.20/-4.87	-5.02/-6.41	-4.82/-5.27	-5.29/-4.58	-4.65/-3.92	-3.75/-2.84	-2.15/-2.12	-2.40/-2.40	-2.41/-2.76	-2.92/-3.02	-3.11/-3.45	-3.58/-3.25	-4.00/-3.52	-3.11/-2.99	-3.02/-3.24	-2.32/-2.46	-2.21/-2.32	-2.23/-2.15	-2.36/-2.53	
Θ(15°)	-3.46/-5.25	-6.77/-7.37	-7.35/-5.86	-4.76/-4.75	-5.20/-4.68	-4.22/-3.90	-3.71/-4.23	-4.64/-6.09	-6.54/-6.80	-8.76/-8.31	-8.25/-7.09	-6.11/-5.35	-5.54/-6.62	-6.32/-6.67	-4.75/-5.24	-5.34/-5.13	-5.01/-4.84	-5.37/-5.74	-5.63/-5.88	-5.08/-3.56	-3.17/-2.73	-2.02/-1.87	-1.17/-0.96	-1.91/-2.93
Θ(22.5°)	-4.77/-6.07	-7.04/-8.14	-9.25/-9.07	-11.25/-15.18	-13.82/-9.79	-8.52/-7.28	-6.72/-6.23	-6.29/-9.24	-10.46/-10.18	-11.39/-10.17	-11.84/-16.21	-6.42/-3.60	-4.89/-3.04	-2.16/-0.71	-0.60/-1.78	-3.87/-6.41	-10.18/-10.74	-10.85/-10.69	-8.48/-5.77	-4.79/-4.91	-3.94/-2.81	-2.83/-2.77	-3.19/-4.64	-5.05/-5.32
Θ(30°)	-4.31/-4.65	-4.77/-5.43	-5.43/-3.84	-3.42/-2.13	-2.27/-2.92	-5.16/-6.70	-8.79/-6.57	-4.68/-5.01	-7.27/-5.78	-6.20/-5.47	-6.61/-11.37	-6.35/-1.15	0.45/-0.98	-0.38/-0.1	0.29/-2.75	-4.84/-3.73	-4.82/-5.97	-5.94/-6.77	-8.78/-8.11	-6.03/-4.62	-2.58/-1.65	-1.31/-4.12	-2.26/-8.47	-8.94/-7.05
Θ(37.5°)	-3.52/-4.47	-7.01/-7.28	-4.62/-2.92	-1.80/-1.29	-2.21/-2.88	-5.39/-6.94	-11.75/-7.54	-5.02/-3.24	-4.34/-7.71	-3.26/-2.22	-3.04/-4.94	-3.47/0.09	1.39/0.44	1.18/2.48	0.42/-3.81	-1.13/-1.91	-5.79/-6.12	-6.59/-7.01	-6.20/-4.46	-4.84/-5.31	-3.07/-1.13	-0.91/-1.15	-1.91/-3.83	-3.37/-2.14
Θ(45°)	-2.92/-7.47	-7.34/-8.86	-8.00/-5.27	-2.88/-2.31	-0.24/-3.48	-7.67/-8.93	-5.37/-1.55	-0.08/-2.26	-2.96/0.01	-0.50/-0.41	-2.19/-3.47	-1.52/-1.90	0.51/2.70	1.55/-1.12	0.80/-0.37	-3.60/-4.86	-5.29/-5.40	-2.94/-0.56	-0.36/0.10	1.10/2.14	1.72/-0.68	-4.77/-5.04	-1.52/-0.84	
Θ(52.5°)	-5.11/-3.61	-4.87/-11.65	-8.05/-3.57	-1.60/-2.22	-1.07/0.16	-0.25/-0.66	-1.80/-4.67	-3.97/-0.65	0.40/-0.57	-2.54/0.23	-0.59/-0.07	-0.02/-2.00	1.30/-1.51	1.20/-1.75	0.57/-0.75	-0.05/-3.07	-0.16/-1.34	-4.87/-5.13	-4.98/-2.60	-0.16/-0.54	-0.53/0.79	0.74/-2.02	-6.37/-5.71	-2.96/-3.61
Θ(60°)	-6.56/-3.68	-4.90/-14.77	-6.35/-2.32	-2.78/-5.91	-3.99/-3.64	-2.88/-1.25	0.01/-0.88	0.77/1.89	1.19/0.08	-0.90/-0.97	0.15/-2.32	-0.19/0.86	0.21/0.15	1.16/0.57	-0.40/-1.53	-0.57/0.37	1.08/-2.14	-5.12/-7.71	-6.48/-4.13	-3.62/-3.07	-3.24/-1.01	-0.54/-2.11	-4.00/-5.77	-5.11/-8.77
Θ(67.5°)	-6.86/-5.35	-5.31/-8.67	-6.10/-4.86	-6.70/-7.26	-7.00/-4.71	-2.93/-1.98	-1.40/-1.72	1.11/2.43	1.31/3.19	-0.39/-0.39	-0.18/-4.14	-0.30/0.61	0.07/-0.73	0.94/-1.68	-0.53/-0.67	0.79/0.83	0.98/-1.32	-2.96/-4.81	-3.20/-1.70	-2.33/-2.28	-4.60/-0.54	-0.16/-2.49	-1.44/-5.10	-7.23/-10.90
Θ(75°)	-5.24/-6.19	-5.89/-4.88	-4.54/-4																					

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



Total Gain Data

245GPol		TotalAnt.1		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°)	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)																							
Θ(0°)	-11.28/-11.55	-11.35/-11.19	-11.60/-11.67	-11.96/-11.80	-11.61/-11.87	-11.84/-11.67	-11.38/-11.33	-11.27/-11.34	-11.26/-11.39	-11.77/-12.01	-11.74/-11.42	-11.36/-11.14	-10.93/-10.67	-10.60/-10.79	-11.34/-11.72	-11.76/-12.15	-12.68/-12.71	-12.94/-13.57	-13.97/-13.94	-13.44/-12.73	-12.05/-11.45	-11.14/-11.01	-10.91/-10.66	-10.63/-11.01																							
Θ(7.5°)	-11.18/-10.97	-10.44/-9.96	-9.38/-9.06	-8.63/-8.22	-7.73/-7.74	-7.96/-8.06	-8.36/-8.66	-9.17/-9.63	-9.77/-9.94	-10.58/-11.07	-10.81/-10.26	-10.01/-10.03	-10.17/-10.35	-10.95/-11.74	-12.68/-12.76	-12.79/-12.62	-12.33/-12.28	-12.75/-13.33	-13.84/-14.55	-14.04/-14.45	-13.11/-12.43	-12.63/-12.36	-12.11/-11.71	-11.43/-11.32																							
Θ(15°)	-8.91/-8.82	-8.63/-8.73	-7.66/-7.18	-6.81/-6.44	-6.28/-6.37	-5.98/-5.95	-5.91/-6.17	-6.74/-7.25	-7.65/-8.13	-8.90/-9.54	-9.65/-9.44	-9.27/-9.93	-9.74/-9.66	-10.16/-10.44	-10.04/-10.31	-10.74/-10.73	-10.61/-10.48	-10.65/-11.13	-11.76/-12.17	-12.01/-11.59	-10.83/-10.37	-10.32/-10.27	-10.47/-10.13	-9.62/-9.92																							
Θ(22.5°)	-6.91/-7.31	-7.70/-7.77	-7.68/-7.38	-6.86/-6.38	-5.96/-5.41	-4.85/-4.39	-4.20/-4.31	-4.92/-5.79	-6.54/-7.11	-7.56/-7.82	-7.97/-8.34	-9.05/-9.98	-10.36/-9.87	-9.87/-8.24	-7.99/-8.10	-8.52/-9.04	-9.40/-9.59	-9.52/-9.16	-8.74/-8.23	-7.81/-7.52	-7.17/-6.91	-6.90/-7.16	-7.28/-7.09	-6.80/-7.60																							
Θ(30°)	-5.55/-6.71	-7.80/-9.42	-9.53/-9.28	-8.17/-10.2	-5.92/-6.06	-4.09/-3.14	-2.64/-2.66	-3.19/-4.23	-5.71/-6.82	-6.70/-5.97	-5.65/-6.20	-7.54/-9.58	-10.57/-8.81	-6.65/-5.38	-5.12/-5.53	-6.24/-7.19	-8.35/-9.68	-8.71/-7.72	-6.25/-5.05	-4.35/-4.01	-3.80/-3.64	-3.63/-3.82	-4.12/-4.21	-4.38/-4.78																							
Θ(37.5°)	-4.95/-6.96	-9.01/-10.92	-11.64/-9.42	-7.76/-6.26	-4.88/-3.56	-2.37/-1.51	-1.09/-1.11	-1.68/-2.94	-5.02/-6.77	-6.29/-4.72	-3.99/-4.57	-6.16/-8.25	-8.56/-6.15	-2.87/-2.92	-3.11/-3.74	-4.54/-5.61	-6.83/-7.58	-7.55/-5.98	-4.45/-3.16	-2.54/-2.38	-2.30/-2.21	-2.06/-1.94	-2.02/-2.26	-2.70/-3.50																							
Θ(45°)	-3.81/-5.73	-8.50/-11.89	-11.99/-8.40	-6.30/-4.98	-3.60/-2.31	-1.12/-0.37	-0.12/-0.34	-0.93/-2.29	-4.37/-6.57	-6.20/-4.17	-2.77/-2.63	-3.55/-4.83	-5.63/-4.20	-3.63/-1.85	-1.95/-2.34	-3.72/-3.58	-4.87/-6.26	-6.68/-5.08	-3.41/-2.31	-2.02/-2.20	-2.42/-2.42	-2.12/-1.78	-1.66/-1.73	-2.10/-2.75																							
Θ(52.5°)	-2.36/-3.53	-5.39/-8.26	-9.90/-8.30	-6.38/-4.95	-3.09/-1.42	-0.27/-0.27	0.16/-0.48	-1.62/-3.19	-5.31/-6.31	-4.85/-2.71	-1.00/-0.62	-1.04/-1.90	-2.48/-2.31	-1.53/-1.05	-0.90/-1.10	-1.55/-2.52	-4.28/-6.71	-7.43/-4.98	-2.64/-1.66	-1.78/-2.43	-2.89/-2.85	-2.47/-2.01	-1.79/-1.58	-1.59/-1.77																							
Θ(60°)	-2.51/-3.42	-4.43/-5.93	-7.61/-7.74	-7.45/-6.50	-3.57/-1.43	-0.130.73	0.69/-0.06	-1.73/-4.65	-6.31/-5.71	-3.95/-1.78	-0.08/-0.69	0.63/-0.08	-0.86/-1.1	-0.77/-0.49	-0.51/-0.99	-1.72/-2.64	-3.62/-4.89	-5.84/-4.22	-2.27/-1.82	-2.45/-3.24	-3.66/-3.54	-2.99/-2.45	-2.16/-1.95	-1.85/-2.01																							
Θ(67.5°)	-3.73/-4.93	-5.66/-6.77	-5.21/-6.80	-6.66/-6.57	-4.20/-2.13	-0.600.60	2.670.13	-1.69/-4.51	-6.58/-4.97	-3.62/-1.83	-0.070.77	0.650.02	-0.69/-0.95	-1.19/-1.56	-1.76/-2.06	-2.21/-1.91	-4.17/-2.03	-3.57/-3.67	-3.31/-3.61	-3.87/-4.1	-4.03/-3.79	-3.68/-3.14	-2.93/-3.02																								
Θ(75°)	-3.87/-4.48	-5.72/-7.1	-6.75/-5.41	-6.73/-8.83	-5.84/-3.64	-2.070.50	-0.130.75	-2.99/-7.07	-9.58/-6.31	-5.31/-3.47	-1.220.17	0.10/-0.74	-1.47/-1.90	-2.58/-3.07	-2.90/-2.63	-2.39/-1.98	-1.56/-1.28	-4.02/-4.50	-3.32/-3.41	-3.99/-4.1	-4.63/-5.07	-4.56/-4.46	-4.54/-3.83	-3.42/-3.56																							
Θ(82.5°)	-5.33/-5.46	-5.43/-6.73	-7.26/-6.70	-9.04/-9.68	-5.59/-3.51	-2.08/-0.87	-0.96/-1.72	-3.52/-8.98	-12.97/-7.78	-6.49/-3.80	-1.07/-2.62	-3.17/-3.64	-4.28/-4.59	-4.46/-4.15	-3.96/-3.22	-1.93/-1.69	-3.33/-4.67	-4.21/-4.55	-4.53/-4.11	-5.33/-7.00	-6.52/-5.95	-5.76/-6.48	-3.86/-3.49																								
Θ(90°)	-7.29/-7.74	-7.14/-7.35	-7.12/-6.67	-10.26/-12.28	-7.36/-4.60	-2.31/-0.90	-1.31/-2.45	-3.42/-9.21	-11.37/-4.70	-7.22/-5.04	-1.71/-0.74	-2.07/-3.42	-5.40/-6.73	-6.66/-5.41	-3.71/-0.92	-2.62/-2.67	-6.92/-6.86	-5.18/-3.98	-4.77/-6.67	-6.92/-6.89	-6.82/-6.11	-5.04/-5.77																									
Θ(97.5°)	-7.45/-8.75	-8.54/-8.32	-7.97/-8.05	-14.29/-13.15	-7.54/-6.15	-4.12/-2.71	-3.64/-5.55	-8.13/-15.83	-10.81/-6.86	-8.05/-9.53	-2.37/-1.74	-3.38/-4.73	-5.76/-7.04	-8.87/-9.88	-7.38/-6.12	-6.08/-4.58	-2.30/-1.79	-4.14/-6.63	-6.23/-8.11	-7.60/-6.15	-5.74/-7.46	-6.91/-6.86	-7.14/-6.24	-4.97/-5.59																							
Θ(105°)	-8.42/-9.43	-9.34/-8.56	-7.94/-7.77	-12.99/-14.07	-7.57/-6.28	-5.56/-4.59	-5.43/-6.99	-8.98/-14.99	-12.30/-7.56	-7.84/-6.71	-3.11/-2.04	-3.53/-5.89	-7.94/-8.10	-9.85/-12.00	-8.98/-7.75	-8.02/-7.24	-4.28/-2.73	-4.47/-6.26	-10.92/-7.09	-8.04/-9.38	-7.72/-7.16	-6.85/-8.14	-6.41/-7.10																								
Θ(112.5°)	-6.92/-9.34	-10.40/-9.57	-9.46/-9.56	-12.51/-13.45	-7.73/-6.43	-6.69/-7.42	-5.89/-9.91	-11.03/-14.79	-11.53/-7.60	-7.56/-6.09	-2.81/-2.67	-5.60/-11.09	-11.16/-8.47	-10.37/-11.63	-8.72/-8.11	-10.55/-11.68	-5.66/-3.27	-4.80/-4.78	-9.30/-11.51	-10.60/-11.91	-10.57/-9.05	-6.61/-5.81	-6.55/-6.12	-4.59/-9.41																							
Θ(120°)	-4.86/-6.83	-8.54/-9.29	-10.68/-10.70	-9.54/-9.52	-7.22/-6.30	-6.32/-6.91	-8.78/-10.94	-12.09/-11.93	-8.49/-6.47	-7.59/-7.90	-5.69/-5.74	-9.42/-14.34	-8.44/-6.43	-9.07/-13.93	-11.98/-10.69	-13.87/-12.91	-5.90/-3.31	-4.42/-6.28	-10.72/-10.12	-14.40/-15.25	-12.23/-9.53	-7.83/-7.26	-7.81/-6.64	-4.33/-3.82																							
Θ(127.5°)	-6.63/-7.81	-10.35/-11.93	-12.56/-11.18	-9.38/-8.78	-8.94/-9.19	-9.80/-10.50	-11.34/-12.08	-13.31/-12.93	-9.66/-8.04	-8.29/-7.96	-7.32/-8.23	-11.03/-12.92	-9.86/-9.56	-11.29/-11.35	-8.47/-7.34	-9.22/-12.06	-7.90/-4.58	-6.26/-4.84	-8.51/-9.48	-11.77/-12.30	-9.10/-7.08	-6.51/-6.83	-8.03/-8.31	-6.76/-6.14																							
Θ(135°)	-8.22/-9.58	-12.23/-14.71	-15.05/-13.06	-11.39/-10.76	-10.39/-14.48	-8.65/-7.97	-7.17/-5.59	-8.67/-10.56	-11.77/-11.42	-10.33/-8.94	-8.01/-8.34	-10.49/-15.16	-14.62/-10.10	-12.49/-8.86	-7.42/-6.82	-10.78/-12.27	-10.33/-7.34	-7.27/-8.97	-10.59/-10.21	-13.29/-11.19	-8.59/-7.17	-6.79/-6.99	-7.46/-7.29	-6.63/-6.80																							
Θ(142.5°)	-10.28/-13.06	-13.44/-14.44	-15.94/-13.73	-12.75/-12.59	-11.54/-9.58	-7.79/-6.60	-6.23/-6.64	-8.16/-10.28	-12.42/-12.99	-11.93/-10.31	-9.03/-9.05	-9.87/-9.61	-7.79/-7.47	-9.40/-12.64	-12.77/-11.66	-11.30/-10.57	-7.48/-6.01	-6.34/-8.44	-11.57/-14.64	-14.98/-15.38	-13.19/-11.38	-10.14/-9.91	-10.77/-11.16	-9.64/-8.82																							
Θ(150°)	-11.69/-13.38	-15.70/-16.00	-15.70/-13.88	-12.32/-10.98	-9.47/-7.69	-6.08/-6.06	-4.70/-5.14	-6.19/-8.20	-10.68/-10.74	-9.07/-7.66	-6.32/-5.48	-5.28/-6.56	-6.31/-7.70	-10.66/-14.49	-14.83/-12.02	-9.64/-7.23	-6.49/-5.99	-6.60/-6.37	-11.14/-14.91	-15.11/-16.76	-14.44/-12.30	-10.69/-10.35	-11.38/-13.47	-12.87/-11.60																							
Θ(157.5°)	-13.16/-14.36	-16.36/-14.98	-14.59/-13.48	-11.52/-10.12	-8.67/-7.13	-6.80/-4.79	-4.32/-4.27	-4.88/-6.23	-8.00/-8.89	-8.67/-7.68	-6.60/-6.21	-6.68/-7.97	-9.83/-12.17	-13.88/-12.55	-10.24/-8.52	-7.91/-7.84	-6.98/-6.90	-9.10/-10.88	-14.08/-14.27	-14.44/-16.61	-12.66/-11.13	-10.43/-9.98	-10.82/-12.15	-13.22/-13.15																							
Θ(165°)	-13.70/-14.06	-14.21/-15.13	-14.23/-13.03	-11.31/-9.76	-8.83/-8.11	-7.40/-6.79	-6.52/-6.58	-6.73/-7.32	-8.16/-7.87	-8.43/-8.14	-8.04/-8.55	-9.46/-10.54	-11.49/-11.33	-12.37/-11.77	-10.18/-9.16	-8.88/-9.40	-10.87/-12.39	-13.99/-14.54	-15.35/-14.77	-15.60/-15.24	-14.88/-13.59	-12.88/-13.21	-14.08/-14.27	-13.93/-14.17																							
Θ(172.5°)	-11.62/-12.11	-12.73/-11.82	-11.68/-11.10	-10.29/-9.58	-9.28/-9.30	-9.29/-9.36	-9.66/-10.01	-10.25/-10.47	-10.88/-11.42	-11.62/-11.27	-12.00/-13.02	-14.26/-14.31	-13.38/-13.77	-14.70/-14.49	-15.18/-14.06	-13.68/-14.55	-15.96/-15.23	-15.59/-15.86	-15.41/-15.80	-15.66/-15.15	-15.71/-15.41	-15.72/-15.47	-15.46/-14.15	-14.06/-13.34																							
Θ(180°)	-11.01/-11.46	-11.78/-12.02	-12.24/-12.32	-12.81/-12.67	-12.95/-13.49	-13.96/-14.57	-14.66/-15.59	-15.26/-15.77	-15.56/-15.97	-15.65/-15.13	-15.28/-14.00	-15.14/-14.53	-14.54/-15.14	-14.70/-14.83	-15.27/-15.04	-15.91/-15.44	-14.96/-14.93	-14.27/-14.33	-14.17/-15.39	-15.29/-15.65	-15.60/-14.41	-15.80/-14.51	-15.82/-12.87	-15.46/-11.30	-11.48/-11.37																						
Freq(Hz)	5.2GPol	TotalAnt.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																							
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)																							
Θ(0°)	-1.86/-2.00	-1.86/-2.26	-1.87/-1.84	-1.81/-1.77	-1.88/-1.73	-1.71/-1.71	-1.96/-1.98	-1.96/-2.09	-2.31/-2.63	-2.77/-2.79	-3.29/-3.39	-3.47/-3.28	-3.18/-2.89	-3.03/-2.86	-2.86/-2.53	-2.29/-2.01	-1.74/-1.30	-1.08/-1.14	-1.24/-1.39	-1.93/-2.36	-2.57/-2.72	-2.58/-2.42	-2.08/-1.91																								
Θ(7.5°)	-2.03/-1.97	-1.99/-2.07	-1.97/-1.86	-2.09/-1.94	-1.89/-1.97	-2.10/-2.12	-2.43/-2.37	-2.39/-2.14	-2.21/-2.29	-2.34/-2.34	-2.47/-2.58	-2.59/-2.55	-2.57/-2.34	-2.33/-2.62	-2.78/-2.71	-2.80/-3.16	-2.92/-2.82	-2.75/-2.50	-2.94/-3.09	-3.24/-3.27	-3.37/-3.22	-2.86/-2.45	-2.56/-2.54	-2.16/-1.90																							
Θ(15°)	-0.29/-0.17	-1.30/-1.56	-1.33/-1.44	-1.16/-1.78	-2.78/-3.28	-3.32/-3.26	-2.97/-2.50	-2.03/-1.84	-1.64/-1.32	-1.22/-0.91	-0.91/-0.82	-1.06/-1.33	-1.84/-2.32	-2.39/-2.32	-2.14/-2.18	-2.02/-1.57	-1.92/-2.30	-3.20/-3.83	-4.34/-4.11	-6.81/-6.35	-5.34/-3.93	-2.84/-2.03	-1.21/-0.35																								
Θ(22.5°)	-1.05/-1.57	-2.98/-4.49	-5.63/-6.38	-7.07/-6.77	-5.88/-4.17	-2.79/-2.35	-2.40/-2.55	-2.37/-1.51	-0.530.31	0.530.47	-0.36/-1.29	-2.08/-2.31	-2.01/-1.63	-1.04/-0.80	-0.56/-0.14	0.01/-0.10	0.15/-0.02	-0.45/-1.23	-2.01/-2.90	-4.25/-5.89	-4.70/-6.26	-3.67/-2.64	-1.98/-1.08																								
Θ(30°)	-5.16/-5.16	-5.73/-6.95	-9.07/-12.52	-15.21/-16.05	-8.55/-3.59	-0.950.36	-0.62/-1.59	-1.91/-1.95	-0.570.03	0.730.81	0.12/-0.89	2.30/-4.44	-6.79/-5.99	-3.18/-1.19	-0.220.48	0.670.90	0.93/-0.14	-1.55/-2.98	-3.40/-4.4																												



Antenna Pattern of Scan Radio and BLE

Appendix H

Θ(15°)	-5.20/-6.22	-6.83/-6.63	-6.24/-6.05	-5.88/-6.08	-6.03/-6.32	-6.99/-7.16	-6.90/-6.42	-6.01/-4.97	-3.87/-2.42	-1.050/07	1.451/1.98	2.152/53	2.532/09	1.340/51	-0.56/-1.40	-2.43/-3.28	-3.97/-3.91	-3.45/-2.78	-2.52/-2.34	-3.57/-4.97	-6.39/-7.89	-8.78/-8.09	-7.22/-5.73	-5.12/-6.47
Θ(22.5°)	-7.14/-9.80	-12.65/-9.92	-6.94/-4.62	-3.34/-2.69	-3.36/-5.04	-6.09/-5.76	-4.86/-3.99	-3.50/-3.15	-3.59/-3.85	-3.65/-2.23	-0.570/-59	1.061/1.41	1.79/1.60	0.91/-0.48	-2.09/-3.50	-4.60/-4.40	-2.91/-1.35	-0.230/-02	-0.19/-0.62	-1.57/-2.52	-3.82/-5.13	-6.63/-8.43	-11.60/-11.05	-9.31/-7.06
Θ(30°)	-12.07/-13.07	-12.22/-14.44	-4.20/-4.57	-4.89/-3.24	-3.12/-4.13	-4.42/-3.83	-2.71/-1.96	-1.90/-2.40	-3.15/-3.74	-4.44/-4.80	-3.29/-2.34	-2.03/-1.59	-0.92/-0.22	0.380/-0.52	-0.11/-2.17	-5.07/-5.75	-2.98/-1.09	-0.39/-1.30	-2.96/-5.07	-6.86/-6.96	-6.69/-7.29	-6.76/-6.06	-11.69/-10.95	-7.70/-12.92
Θ(37.5°)	-8.29/-8.34	-8.40/-9.31	-11.88/-9.95	-5.45/-2.35	-1.06/-1.26	-2.42/-2.62	-1.24/-1.05	-1.85/-2.00	-2.05/-2.17	-0.620/-0.33	0.20/-1.28	-4.65/-6.09	-4.97/-2.37	0.060/0.97	-0.29/-0.04	-7.48/-6.83	-4.20/-2.36	-1.95/-3.21	-4.38/-5.04	-6.08/-7.07	-6.20/-5.84	-5.82/-5.38	-5.97/-8.20	-9.59/-8.70
Θ(45°)	-5.83/-4.46	-4.53/-6.02	-8.34/-5.80	-4.21/-1.83	-0.26/-0.92	-2.47/-2.28	-0.78/-2.04	-0.530/-0.53	1.72/-1.92	2.23/-0.39	3.51/-1.71	0.13/-0.50	2.68/-1.31	1.47/-1.46	0.03/-2.51	-3.45/-1.70	1.130/-4.07	-0.06/-1.35	-2.87/-1.67	-0.83/-1.43	-2.72/-3.17	-2.79/-2.20	-2.74/-3.27	-5.21/-6.49
Θ(52.5°)	-3.30/-2.54	-2.62/-3.26	-6.05/-7.60	-6.98/-2.63	-1.13/-4.29	-3.03/-1.12	-0.020/0.09	0.652/-0.28	3.21/-2.95	3.04/-1.14	3.97/-2.92	1.50/-1.38	2.02/-1.26	2.41/-1.57	1.630/-0.48	0.41/-0.13	2.20/-1.99	0.58/-1.92	-2.34/-0.62	0.41/-0.13	-2.20/-1.99	-0.790/-7.0	0.410/-60	-0.42/-5.1
Θ(60°)	-1.56/-1.15	-2.60/-1.62	-2.88/-6.21	-5.75/-1.54	-0.04/-2.30	-2.78/-0.32	0.88/-1.75	2.773/-84	3.90/-1.88	1.73/-2.73	3.933/-23	2.933/-01	2.643/-10	3.82/-1.97	2.282/-08	2.882/-66	2.78/-1.82	0.27/-1.01	-1.100/-28	1.05/-0.05	-2.71/-3.21	-2.37/-0.19	0.132/-15	1.300/-75
Θ(67.5°)	-2.87/-1.65	-1.93/-0.91	-0.97/-3.80	-3.630/-10	1.93/-0.79	-2.06/-0.68	0.372/-25	3.453/-69	3.25/-0.58	-0.38/-130	3.052/-61	3.713/-95	3.583/-35	3.35/-1.26	1.362/-09	3.452/-93	2.741/-57	0.48/-1.04	0.260/-62	0.73/-1.17	-4.64/-4.51	-4.77/-1.85	-2.160/-62	0.05/-0.28
Θ(75°)	-3.87/-2.86	-2.20/-2.73	-0.87/-3.04	-3.690/-39	2.58/-0.97	-1.94/-0.22	0.052/-18	3.673/-15	2.52/-1.18	-2.640/-43	1.572/-02	3.104/-59	3.772/-81	2.18/-0.50	0.10/-1.01	2.672/-46	1.880/-03	0.402/-44	1.29/-08	1.28/-1.28	-5.18/-3.80	-6.12/-2.63	-3.07/-1.13	-1.199/-3.14
Θ(82.5°)	-6.30/-4.46	-2.90/-3.95	-0.67/-2.40	-4.420/-77	2.63/-1.26	-1.080/-43	-1.31/-1.10	2.88/-1.76	1.25/-2.22	-2.760/-05	0.110/-70	2.313/-68	2.731/-70	-0.19/-1.85	-1.40/-0.57	1.872/-09	1.02/-2.45	-0.692/-56	0.970/-53	1.14/-1.84	-4.24/-2.81	-7.94/-5.66	-4.79/-2.91	-4.47/-6.69
Θ(90°)	-9.07/-5.53	-5.76/-5.35	-1.84/-2.85	-5.720/-40	1.85/-2.78	-1.470/-55	-2.68/-1.90	0.840/-06	-0.48/-2.90	-3.75/-0.81	-1.99/-0.44	1.552/-13	2.450/-15	-1.95/-4.24	-2.32/-3.15	-0.690/-42	0.45/-3.81	-1.64/-1.14	-0.46/-1.61	-0.37/-3.37	-5.87/-3.48	-8.32/-7.69	-6.81/-6.23	-9.82/-11.12
Θ(97.5°)	-8.14/-4.56	-6.96/-5.31	-2.82/-3.71	-7.38/-1.10	0.41/-3.69	-1.030/-01	-4.86/-3.87	-0.59/-1.86	-1.77/-3.69	-3.72/-2.96	-4.56/-2.33	-0.180/-02	0.60/-0.72	-3.96/-5.37	-2.15/-3.95	-2.68/-1.71	-1.25/-4.04	-4.12/-3.05	-3.58/-6.64	-5.60/-4.30	-6.13/-6.54	-13.38/-11.31	-5.55/-8.07	-11.40/-10.33
Θ(105°)	-13.77/-6.33	-8.18/-5.22	-5.09/-7.41	-8.60/-3.43	-1.70/-5.28	-2.02/-0.58	-4.13/-4.16	-2.44/-3.01	-3.34/-4.05	-4.13/-5.11	-6.08/-4.13	-2.61/-2.43	-1.33/-3.08	-5.21/-7.11	-2.98/-3.83	-6.88/-4.54	-3.51/-6.74	-9.93/-10.16	-7.88/-14.23	-12.43/-8.70	-7.07/-7.41	-9.07/-10.46	-7.68/-10.84	-15.62/-14.19
Θ(112.5°)	-13.31/-6.02	-6.63/-6.48	-10.32/-9.94	-4.23/-3.59	-4.60/-5.43	-3.04/-3.42	-5.34/-6.61	-5.01/-4.15	-4.17/-4.85	-4.13/-7.20	-7.23/-5.14	-3.32/-4.06	-3.40/-8.67	-13.72/-10.97	-4.82/-6.03	-9.88/-5.02	-5.67/-10.26	-5.71/-9.94	-9.59/-7.81	-9.97/-11.91	-12.08/-12.54	-8.15/-9.65	-15.22/-15.21	
Θ(120°)	-7.79/-4.10	-5.71/-5.05	-10.69/-9.65	-4.64/-4.81	-7.95/-6.37	-5.10/-8.24	-8.28/-11.43	-9.14/-5.53	-5.59/-4.87	-4.98/-8.74	-10.71/-8.49	-4.76/-8.45	-4.54/-8.25	-13.37/-15.86	-10.77/-6.88	-8.18/-6.88	-7.60/-5.18	-5.47/-6.08	-3.41/-8.56	-11.51/-7.65	-13.21/-14.87	-9.38/-12.46	-14.11/-10.20	
Θ(127.5°)	-7.58/-4.55	-7.25/-7.25	-12.86/-14.63	-10.95/-12.70	-16.12/-10.49	-7.49/-5.55	-6.20/-9.07	-9.36/-7.30	-5.72/-5.10	-8.93/-11.79	-12.11/-11.69	-11.34/-9.08	-9.03/-7.39	-8.54/-9.56	-7.11/-3.24	-8.38/-8.28	-11.65/-7.23	-8.17/-11.85	-7.38/-12.08	-14.91/-10.33	-12.50/-8.85	-13.85/-8.23	-10.09/-13.18	-15.30/-9.32
Θ(135°)	-8.95/-4.75	-9.49/-12.93	-13.25/-11.17	-11.25/-10.29	-12.29/-13.72	-8.98/-6.87	-8.13/-8.51	-10.03/-7.00	-8.51/-6.68	-8.42/-9.90	-12.05/-15.16	-10.00/-10.72	-13.39/-11.06	-9.32/-11.00	-6.02/-8.58	-7.40/-11.94	-11.20/-12.50	-9.29/-12.15	-4.83/-8.34	-13.74/-10.80	-6.23/-13.20	-11.61/-9.46	-8.67/-9.88	-7.27/-10.47
Θ(142.5°)	-7.55/-11.88	-12.01/-13.83	-14.58/-19.57	-15.58/-15.17	-14.59/-15.26	-14.86/-15.20	-12.12/-9.54	-12.78/-11.22	-9.06/-7.44	-7.75/-5.76	-7.78/-11.54	-10.15/-8.92	-10.03/-10.65	-14.50/-10.39	-14.87/-14.88	-12.82/-12.55	-6.00/-5.89	-5.90/-12.09	-7.30/-9.66	-14.59/-15.12	-13.98/-14.09	-11.33/-8.46	-11.13/-8.46	-8.53/-7.04
Θ(150°)	-9.24/-9.36	-10.84/-14.39	-13.34/-12.04	-9.77/-9.02	-10.27/-12.55	-13.00/-10.03	-9.57/-9.91	-10.98/-10.14	-9.93/-9.51	-8.32/-8.50	-10.86/-10.37	-14.16/-15.07	-14.19/-10.59	-11.68/-11.76	-9.67/-15.66	-14.78/-13.01	-12.69/-13.40	-13.94/-14.04	-13.21/-14.80	-13.94/-14.50	-14.12/-10.53	-11.22/-12.35	-15.11/-15.46	-13.28/-9.81
Θ(157.5°)	-13.68/-12.87	-10.41/-9.56	-9.31/-8.88	-9.23/-9.56	-12.38/-15.74	-14.97/-12.94	-13.44/-15.57	-14.20/-11.27	-11.61/-12.22	-13.95/-13.49	-11.76/-11.73	-12.31/-11.74	-12.64/-15.03	-13.71/-9.23	-8.69/-9.69	-11.17/-12.57	-11.79/-10.59	-12.08/-14.81	-14.87/-15.24	-13.34/-10.09	-9.47/-10.60	-13.96/-15.68	-13.67/-10.70	-11.35/-13.51
Θ(165°)	-12.66/-12.83	-12.02/-10.70	-9.98/-10.09	-9.50/-9.59	-9.78/-10.24	-10.87/-10.33	-12.06/-14.79	-13.52/-12.44	-12.94/-14.43	-15.11/-15.56	-14.70/-13.67	-13.07/-12.82	-15.42/-15.50	-13.49/-10.49	-9.81/-10.39	-11.05/-11.50	-11.01/-11.49	-13.73/-15.88	-15.36/-13.93	-14.00/-13.95	-14.70/-12.94	-12.29/-11.91	-9.79/-9.90	-10.61/-12.95
Θ(172.5°)	-12.66/-10.98	-8.93/-7.72	-7.28/-6.97	-6.91/-7.75	-8.75/-9.36	-9.29/-9.47	-8.97/-8.59	-8.83/-8.75	-9.27/-9.85	-11.04/-13.08	-12.18/-13.13	-14.72/-15.01	-13.76/-11.19	-9.40/-8.68	-7.91/-7.74	-8.37/-9.24	-11.01/-10.40	-10.60/-10.60	-13.62/-15.09	-15.56/-15.22	-12.80/-12.00	-11.74/-11.90	-11.39/-12.52	
Θ(180°)	-12.76/-13.45	-12.92/-13.12	-12.89/-12.53	-11.96/-10.91	-9.92/-9.68	-10.20/-10.35	-10.55/-11.66	-13.78/-14.82	-15.26/-15.09	-16.07/-14.79	-14.19/-13.22	-11.98/-11.24	-11.47/-11.91	-11.50/-11.35	-12.22/-11.68	-11.85/-12.27	-12.27/-12.09	-11.48/-10.95	-10.31/-10.06	-10.72/-10.60	-10.17/-9.95	-10.60/-11.15	-11.10/-12.02	-11.57/-11.67
Freq[Hz]	6.175GPol.	Total/Ant. 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°)	-3.26/-3.37	-3.45/-3.72	-3.35/-3.06	-2.93/-2.89	-2.95/-2.73	-2.86/-3.33	-3.14/-3.25	-3.30/-3.41	-3.83/-4.01	-4.05/-4.00	-3.75/-3.53	-3.89/-4.20	-3.87/-3.89	-3.81/-3.91	-4.02/-3.76	-3.85/-3.71	-3.58/-3.53	-3.47/-3.79	-3.98/-3.81	-3.96/-4.26	-4.15/-4.20	-3.93/-3.65	-3.38/-3.49	-3.57/-3.15
Θ(7.5°)	-3.00/-3.73	-4.14/-4.58	-4.61/-4.76	-4.93/-5.19	-5.05/-5.06	-5.03/-5.27	-5.29/-5.32	-5.47/-5.23	-5.10/-4.98	-4.71/-4.01	-2.88/-1.96	-1.29/-0.82	-0.52/-0.25	-0.19/-0.30	-0.38/-0.57	-1.12/-1.45	-1.61/-1.77	-2.10/-2.25	-2.86/-3.45	-3.85/-3.94	-4.23/-4.42	-4.00/-3.48	-2.96/-3.08	-2.74/-2.86
Θ(15°)	-4.43/-4.82	-6.32/-7.41	-7.21/-6.00	-4.08/-3.03	-1.25/-2.42	-2.94/-3.48	-3.51/-3.66	-4.18/-4.28	-4.19/-3.89	-3.21/-2.47	-1.55/-1.17	-0.78/-0.25	0.210/-47	0.80/-1.19	1.32/-1.18	0.850/-20	-0.90/-2.03	-3.23/-4.37	-0.57/-5.66	-6.64/-7.09	-7.31/-7.75	-8.92/-10.19	-8.79/-7.94	-5.33/-4.57
Θ(22.5°)	-7.87/-8.94	-12.58/-13.39	-8.23/-3.94	-1.76/-0.94	-1.08/-1.99	-2.84/-2.59	-1.73/-0.45	0.380/-54	0.310/-18	-0.310/-54	-0.60/-0.49	-0.59/-0.67	-0.500/-0.1	0.781/-08	0.750/-35	-0.40/-1.66	-3.39/-4.74	-5.51/-5.81	-6.13/-6.58	-6.80/-7.39	-8.63/-9.49	-9.21/-9.15	-9.50/-9.80	-9.72/-8.48
Θ(30°)	-9.43/-7.13	-5.72/-6.28	-5.24/-3.79	-3.56/-3.75	-4.28/-5.03	-6.71/-4.69	-2.190/-61	2.453/-19	2.982/-32	1.771/-46	0.860/-58	0.830/-60	0.490/-80	0.88/-1.01	0.48/-0.67	-2.45/-3.90	-5.69/-5.45	-3.91/-2.99	-2.88/-2.53	-1.44/-0.92	-1.63/-3.63	-5.65/-5.55	-5.41/-5.14	-5.31/-7.32
Θ(37.5°)	-7.28/-2.26	-3.12/-4.87	-4.18/-3.29	-3.03/-2.49	-2.90/-3.76	-4.91/-5.92	-4.23/-1.50	1.601/-32	-0.38/-1.80	-0.510/-69	0.850/-0.27	-0.68/-0.75	0.170/-49	1.301/-81	1.43/-0.29	-2.68/-4.97	-5.46/-2.77	-1.53/-1.50	-1.60/-1.51	-1.26/-1.08	-1.57/-3.12	-5.88/-9.47	-9.27/-6.85	-4.91/-3.33
Θ(45°)	-4.84/-4.19	-4.36/-5.67	-4.21/-3.67	-2.91/-0.61	-0.06/-0.41	-0.92/-2.67	-4.43/-3.82	-1.33/-1.83	-4.66/-4.51	-1.390/-31	1.100/-79	-0.39/-2.52	-1.30/-0.19	0.930/-26	0.05/-1.56	0.811/-98	1.840/-36	-1.47/-2.21	-2.39/-2.64	-2.78/-4.40	-6.06/-6.29	-8.34/-9.57	-7.18/-5.66	
Θ(52.5°)	-3.25/-2.90	-4.55/-3.52	-4.18/-6.46	-4.20/-1.54	-1.03/-0.42	-0.25/-1.73	-3.21/-1.42	1.250/-36	-2.08/-0.62	1.671/-65	2.772/-91	1.40/-0.91	0.030/-07	0.54/-0.95	0.280/-26	0.720/-32	0.961/-73	1.580/-14	-2.97/-4.58	-4.57/-6.48	-5.04/-4.19	-3.79/-3.93	-5.44/-6.25	-4.55/-4.26
Θ(60°)	-2.50/-2.28	-3.44/-2.55	-3.45/-2.00	-2.75/-0.87	-0.41/-1.10	-1.37/-0.04	3.634/-71	3.834/-71	3.652/-65	2.561/-49	2.964/-91	3.892/-48	1.681/-48	1.120/-36	1.662/-32	2.901/-81	1.361/-22	0.17/-2.01	-1.75/-2.35	-4.11/-3.18	-1.36/-0.46	0.620/-34	-0.89/-3.01	-3.38/-3.58
Θ(67.5°)	-2.41/-3.15	-2.28/-1.09	-0.13/-2.30	0.571/-67	1.030/-01	-0.41/-1.89	3.823/-66	4.725/-81	5.294/-22	1.777/-0.34	3.044/-73	3.572/-68	2.091/-42	0.78/-0.62	2.									



Antenna Pattern of Scan Radio and BLE

Appendix H

Θ(67.5°)	-1.14/-3.17	-2.15/-1.58	-3.74/-4.09	0.40/-1.51	-0.88/0.65	3.05/-1.91	-1.90/-9.94	3.24/-13	4.82/4.28	3.58/-3.64	1.25/0.54	2.03/-2.69	2.12/0.65	0.35/2.10	3.83/-4.20	2.48/-3.33	4.49/-1.94	-0.18/-1.80	2.04/-0.03	-0.02/-1.26	-2.48/-0.00	-0.03/-0.68	0.71/-0.55	2.13/-30
Θ(75°)	-2.81/-3.11	-1.69/-0.56	-1.96/-1.35	1.97/0.95	-0.61/-2.09	2.47/0.90	-1.50/-1.85	3.23/-2.4	4.71/-0.41	1.98/-2.53	1.29/0.91	1.98/-2.27	0.69/-0.07	-0.84/-0.10	2.64/-3.32	1.33/-1.38	4.33/-2.01	-3.48/-0.70	3.12/-0.23	0.14/-0.78	-0.05/-0.68	0.05/-1.12	1.40/-1.09	1.15/-0.79
Θ(82.5°)	-4.19/-3.66	-2.73/-0.26	-0.00/-0.72	2.19/-1.76	-1.21/-2.97	-0.45/-0.05	0.05/-0.95	3.31/-3.29	4.13/-1.31	-0.30/-1.24	0.44/-1.32	2.09/-1.81	-1.28/-0.67	-0.72/-0.82	0.91/-1.05	-1.87/-0.43	3.14/-1.30	-5.17/-0.41	3.23/-0.11	-0.15/-0.08	0.75/-1.23	-0.26/-0.12	-0.38/-2.39	-0.38/-2.39
Θ(90°)	-4.31/-5.61	-5.04/-0.87	0.16/-1.88	1.06/-1.53	-1.73/-2.19	-0.60/-0.77	-1.53/-3.45	2.89/-1.34	2.76/-2.01	-2.29/-0.02	-0.75/-0.87	1.10/-0.45	2.86/-1.89	-1.34/-3.41	-1.42/-1.73	-5.88/-3.26	-0.66/-0.51	-3.32/-4.87	1.85/-1.45	-2.37/-0.08	-0.04/-1.18	-4.59/-1.56	-2.40/-8.59	-2.26/-5.26
Θ(97.5°)	-3.77/-5.51	-5.31/-0.21	-0.12/-3.61	0.03/-0.68	-2.59/-1.97	-2.09/-2.22	-4.94/-5.46	1.39/-0.73	0.73/-8.32	-3.19/-2.71	-0.82/-0.21	-0.25/-0.54	-5.21/-2.77	-1.94/-6.00	4.03/-4.08	-9.98/-7.90	-8.85/-3.89	-5.21/-13.04	-0.80/-6.23	-7.35/-2.39	-5.34/-2.00	-9.42/-1.99	-3.98/-11.90	-4.47/-4.15
Θ(105°)	-5.82/-8.30	-4.55/-0.59	-1.15/-6.17	-0.32/-2.26	-3.75/0.51	-4.30/-3.26	-7.42/-8.12	-2.35/-2.33	-1.57/-9.34	-1.75/-4.21	-1.80/-0.50	-2.67/-4.70	-7.10/-6.52	-3.19/-6.93	-8.11/-7.85	-8.82/-8.94	-12.13/-7.59	-8.80/-12.78	-3.53/-7.58	-14.53/-6.60	-7.61/-5.56	-11.12/-3.59	-5.61/-12.86	-13.56/-4.54
Θ(112.5°)	-10.02/-8.82	-3.19/-1.87	-3.33/-5.46	-1.79/-5.02	-4.42/-3.48	-3.45/-1.52	-9.98/-9.18	-3.90/-2.03	-8.48/-6.55	-1.57/-6.06	-1.97/-0.44	-5.79/-6.06	-10.28/-11.30	-5.41/-10.44	-9.21/-12.45	-13.75/-8.02	-7.88/-10.40	-10.80/-12.43	-1.77/-6.63	-10.10/-8.07	-4.13/-6.13	-7.86/-9.99	-4.79/-13.85	-9.55/-6.72
Θ(120°)	-8.38/-6.43	-3.48/-5.98	-7.46/-7.55	-10.53/-11.21	-8.57/-4.05	-3.98/-4.83	-15.00/-10.71	-3.03/-4.38	-7.50/-5.39	-4.23/-6.41	-4.24/-4.68	-10.18/-7.64	-7.32/-15.42	-9.26/-7.12	-8.06/-9.92	-13.18/-13.71	-13.35/-9.69	-15.33/-11.62	-7.95/-12.27	-14.51/-10.22	-4.62/-8.36	-9.87/-7.14	-11.08/-12.00	-7.98/-7.98
Θ(127.5°)	-8.76/-6.34	-4.33/-5.88	-7.68/-8.56	-9.85/-7.92	-6.51/-8.42	-6.78/-5.73	-6.77/-10.79	-7.24/-6.63	-6.09/-4.93	-11.78/-6.88	-4.16/-13.55	-12.00/-8.04	-13.55/-11.34	-10.09/-9.17	-7.57/-15.26	-15.98/-10.50	-13.53/-14.72	-15.46/-10.48	-6.96/-10.15	-15.58/-8.78	-7.06/-3.55	-11.30/-8.69	-7.07/-14.84	-10.67/-9.44
Θ(135°)	-9.47/-13.37	-10.87/-8.97	-9.45/-9.60	-10.48/-12.34	-10.07/-10.17	-7.37/-7.07	-10.49/-11.15	-8.51/-7.58	-8.50/-7.91	-6.86/-9.31	-10.41/-7.65	-9.90/-4.61	-8.99/-9.99	-9.06/-9.64	-8.59/-11.53	-15.55/-6.68	-10.51/-6.41	-15.15/-9.15	-7.92/-11.19	-15.52/-6.87	-6.55/-11.51	-8.28/-11.42	-15.94/-13.19	-13.72/-12.25
Θ(142.5°)	-10.50/-11.48	-9.90/-13.15	-16.04/-13.02	-7.25/-5.19	-12.01/-14.12	-10.10/-14.96	-11.79/-13.48	-10.34/-8.19	-11.15/-9.60	-7.87/-11.61	-13.44/-12.43	-9.77/-11.74	-8.48/-8.92	-8.14/-4.77	-8.94/-14.06	-14.69/-10.94	-11.70/-12.63	-14.90/-12.47	-15.81/-11.64	-11.72/-8.47	-7.84/-11.83	-12.49/-8.58	-7.46/-12.31	-11.83/-5.95
Θ(150°)	-10.64/-8.65	-10.75/-13.29	-8.98/-6.63	-6.75/-6.97	-5.52/-6.75	-12.53/-15.26	-13.05/-15.42	-13.25/-12.31	-8.77/-9.44	-10.10/-11.65	-14.02/-9.95	-5.73/-6.49	-5.16/-5.85	-7.18/-8.69	-8.02/-11.26	-14.29/-11.47	-8.66/-7.73	-7.87/-13.41	-15.87/-11.42	-12.10/-12.54	-10.70/-10.89	-14.80/-13.97	-14.90/-14.67	
Θ(157.5°)	-14.14/-12.59	-11.21/-10.24	-10.52/-9.70	-9.15/-9.77	-10.52/-11.95	-13.81/-15.18	-14.92/-12.11	-13.19/-12.74	-8.82/-8.11	-6.95/-8.75	-12.68/-8.85	-6.66/-9.28	-10.56/-9.97	-8.76/-10.01	-11.89/-11.91	-13.44/-11.43	-10.17/-13.43	-15.37/-11.52	-10.87/-15.07	-10.32/-6.83	-8.91/-12.41	-10.97/-10.06	-12.35/-10.38	-9.94/-14.68
Θ(165°)	-10.83/-10.79	-9.29/-7.99	-7.88/-7.95	-7.24/-7.13	-7.00/-7.72	-8.33/-8.07	-7.71/-8.56	-10.10/-12.73	-14.39/-13.95	-13.50/-13.90	-15.66/-15.03	-12.15/-9.48	-9.23/-10.14	-10.70/-9.53	-12.23/-15.75	-15.50/-13.66	-10.88/-9.35	-7.90/-7.97	-9.66/-11.45	-13.45/-15.72	-15.21/-13.21	-11.06/-13.05	-9.43/-9.31	-10.89/-10.64
Θ(172.5°)	-7.43/-7.11	-6.75/-6.37	-5.94/-6.04	-6.46/-7.75	-8.74/-9.70	-10.32/-10.77	-10.82/-11.81	-11.80/-12.10	-12.62/-12.97	-14.30/-14.45	-14.12/-14.49	-13.19/-11.63	-10.54/-10.43	-11.02/-11.03	-12.18/-12.41	-12.76/-12.97	-13.84/-14.73	-12.91/-11.36	-11.25/-11.33	-12.17/-13.62	-14.28/-14.11	-12.71/-13.02	-11.04/-9.98	-8.64/-8.03
Θ(180°)	-6.44/-6.42	-6.81/-6.81	-6.83/-6.98	-6.75/-6.82	-6.33/-6.56	-6.82/-7.06	-7.17/-7.26	-7.17/-6.69	-6.36/-6.61	-7.20/-7.37	-8.42/-8.24	-8.30/-7.36	-6.84/-6.22	-5.96/-6.05	-6.09/-5.59	-5.61/-5.81	-6.25/-6.55	-7.48/-8.76	-9.63/-11.05	-10.55/-10.19	-8.88/-7.93	-6.98/-6.74	-6.49/-6.22	-6.69/-6.60
Freq(Hz)	2.45G/Pol.	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°)	-3.47/-3.11	-2.66/-2.44	-2.46/-2.30	-2.38/-2.38	-2.47/-2.61	-2.75/-2.68	-2.58/-2.57	-2.74/-3.21	-4.07/-5.08	-5.63/-5.39	-5.30/-5.41	-5.37/-4.79	-4.08/-3.39	-2.94/-2.61	-2.35/-2.01	-1.78/-1.60	-1.60/-1.80	-2.05/-2.40	-2.95/-3.43	-3.75/-4.07	-4.44/-4.82	-5.20/-5.19	-4.88/-4.62	-4.37/-4.07
Θ(7.5°)	-4.12/-3.79	-3.42/-3.34	-3.30/-3.40	-3.47/-3.46	-3.51/-3.72	-3.87/-3.83	-3.75/-3.68	-3.73/-3.99	-4.53/-5.22	-5.44/-5.37	-5.32/-5.27	-5.07/-5.46	-3.81/-3.14	-2.67/-3.28	-2.08/-1.71	-1.33/-1.03	-0.79/-0.69	-0.87/-1.26	-1.84/-2.39	-2.94/-3.56	-4.19/-4.68	-5.20/-5.46	-5.67/-5.18	-4.94/-4.57
Θ(15°)	-5.70/-5.43	-4.99/-4.93	-4.81/-5.52	-5.57/-5.67	-5.81/-5.99	-5.93/-5.75	-5.63/-5.45	-5.14/-4.77	-4.60/-4.65	-4.60/-4.59	-4.88/-5.37	-4.97/-5.63	-3.94/-4.22	-3.84/-3.60	-3.22/-2.61	-1.90/-1.34	-0.91/-0.65	-0.66/-1.01	-1.54/-2.23	-3.07/-4.34	-4.92/-5.82	-6.62/-7.16	-7.31/-7.13	-6.74/-6.22
Θ(22.5°)	-9.10/-8.09	-7.28/-6.81	-6.72/-7.06	-7.23/-7.38	-7.45/-7.20	-6.84/-6.46	-6.14/-5.81	-5.21/-4.58	-4.12/-3.93	-3.76/-3.79	-4.11/-4.90	-5.91/-6.80	-6.96/-6.91	-7.01/-7.03	-6.46/-5.29	-3.93/-2.83	-2.00/-1.44	-1.12/-0.98	-1.14/-1.59	-2.30/-3.23	-4.36/-5.82	-7.56/-9.18	-10.17/-10.49	-10.28/-9.81
Θ(30°)	-14.23/-13.38	-9.92/-7.98	-7.88/-7.54	-6.55/-6.85	-6.28/-6.88	-5.81/-6.89	-5.62/-6.94	-4.84/-3.98	-3.32/-3.03	-3.02/-3.21	-3.43/-3.96	-4.91/-6.24	-7.99/-8.76	-12.47/-10.62	-12.24/-10.03	-7.28/-5.11	-3.58/-2.60	-1.88/-1.27	-1.07/-1.24	-1.78/-2.71	-3.99/-6.17	-7.85/-10.12	-10.98/-11.30	-10.98/-11.30
Θ(37.5°)	-8.62/-8.67	-6.84/-5.32	-4.41/-4.08	-4.40/-5.38	-6.77/-8.16	-9.28/-9.56	-8.94/-7.67	-6.80/-3.98	-2.70/-2.22	-2.44/-3.01	-3.31/-4.48	-4.03/-5.60	-10.00/-10.85	-13.15/-15.09	-15.24/-13.03	-9.33/-6.32	-4.66/-4.07	-3.69/-3.31	-3.24/-3.43	-4.34/-4.63	-7.40/-8.95	-9.95/-10.31	-10.04/-9.39	-8.92/-9.09
Θ(45°)	-8.02/-6.09	-4.11/-2.71	-1.73/-1.34	-1.64/-2.75	-4.65/-6.85	-8.80/-10.34	-11.99/-12.59	-11.79/-7.25	-3.94/-2.40	-2.14/-2.90	-3.62/-3.84	-4.23/-5.49	-7.94/-10.81	-13.67/-16.18	-14.43/-10.08	-6.78/-5.39	-5.40/-6.29	-6.89/-6.41	-5.64/-5.06	-4.69/-4.69	-5.16/-6.13	-7.39/-8.45	-9.33/-9.87	-9.97/-9.52
Θ(52.5°)	-8.75/-7.25	-5.06/-3.17	-1.60/-0.54	-0.28/-0.83	-2.08/-3.88	-5.81/-6.89	-7.35/-6.66	-12.07/-11.78	-6.81/-4.12	-3.34/-3.69	-3.87/-3.90	-4.48/-6.20	-8.97/-11.86	-13.00/-13.69	-10.51/-6.37	-4.45/-4.47	-5.69/-5.56	-6.15/-4.85	-3.85/-3.33	-3.12/-3.23	-3.89/-5.32	-7.49/-9.40	-8.95/-9.36	-8.95/-9.36
Θ(60°)	-5.33/-4.92	-3.86/-2.94	-2.90/-1.30	-0.92/-0.72	-0.78/-1.71	-4.09/-7.11	-7.88/-1.83	-10.41/-14.10	-9.37/-5.51	-3.64/-3.36	-3.29/-3.41	-4.23/-5.96	-8.35/-9.87	-11.18/-13.95	-10.42/-5.90	-4.25/-4.27	-4.84/-4.53	-4.62/-4.17	-3.63/-3.47	-3.41/-3.54	-3.96/-5.08	-6.86/-8.07	-7.83/-7.07	-6.96/-5.42
Θ(67.5°)	-3.62/-3.34	-2.65/-1.98	-1.55/-1.36	-1.58/-1.63	-1.15/-1.73	-4.63/-9.98	-11.06/-9.39	-12.11/-14.87	-7.63/-3.76	-2.62/-2.99	-3.44/-3.86	-4.49/-5.86	-7.21/-8.65	-11.45/-12.52	-7.36/-4.04	-4.20/-2.97	-3.34/-4.66	-5.62/-4.71	-3.16/-2.36	-2.08/-2.04	-2.44/-3.71	-5.85/-7.81	-8.57/-7.48	-5.48/-4.19
Θ(75°)	-3.23/-2.58	-2.19/-2.14	-2.13/-1.81	-1.22/-0.58	-0.07/-0.79	-3.76/-8.43	-7.01/-5.46	-5.53/-8.09	-1.06/-6.22	-4.38/-4.63	-4.55/-3.77	-3.89/-5.25	-7.53/-9.38	-10.21/-9.31	-6.26/-4.71	-3.80/-3.57	-4.42/-6.01	-6.19/-4.38	-3.15/-3.27	-4.16/-4.74	-5.28/-6.44	-7.87/-9.07	-8.51/-6.94	-5.20/-4.19
Θ(82.5°)	-4.60/-2.79	-1.18/-0.62	-1.13/-2.69	-3.40/-1.97	-0.46/-1.80	-2.22/-7.21	-11.45/-6.50	-5.91/-10.10	-14.10/-8.43	-6.97/-6.46	-4.63/-3.12	-3.52/-4.49	-7.32/-7.38	-7.86/-8.41	-7.91/-6.10	-3.97/-3.67	-4.68/-6.20	-6.43/-4.73	-4.21/-5.66	-8.02/-7.83	-6.88/-6.83	-7.87/-9.51	-9.29/-6.68	-4.98/-5.04
Θ(90°)	-6.20/-5.17	-3.40/-2.09	-1.18/-1.44	-2.25/-2.61	-3.17/-4.33	-6.14/-9.48	-10.81/-6.94	-6.62/-11.66	-14.73/-8.39	-6.71/-7.59	-5.69/-3.80	-3.58/-4.85	-6.71/-7.89	-10.15/-9.57	-7.29/-5.09	-4.31/-5.49	-6.93/-6.68	-8.74/-5.75	-4.69/-6.11	-7.96/-7.60	-7.17/-7.12	-7.77/-7.61	-7.15/-5.72	-4.61/-5.39
Θ(97.5°)	-11.04/-8.09	-5.97/-5.11	-3.71/-2.82	-2.19/-1.31	-1.43/-3.34	-5.71/-15.06	-9.94/-5.46	-5.39/-8.77	-8.73/-6.00	-6.28/-7.52	-5.99/-4.03	-3.59/-4.86	-6.59/-7.62	-8.19/-7.44	-7.21/-6.85	-7.18/-7.24	-6.61/-7.68	-8.22/-6.58	-6.18/-7.50	-7.81/-7.04	-7.34/-7.84	-7.56/-6.49	-6.83/-6.83	-6.40/-8.23
Θ(105°)	-13.93/-12.76	-11.40/-11.51	-9.28/-5.97	-3.80/-2.19	-1.64/-2.77	-5.95/-10.07	-8.38/-5.63	-6.58/-10.50	-6.99/-3.53	-3.29/-5.39	-6.70/-4.94	-4.02/-5.03	-5.82/-6.68	-8.57/-8.76	-7.79/-6.80	-7.12/-6.98	-6.42/-7.02	-8.34/-8.29	-7.61/-7.37	-7.00/-7.65	-6.95/-6.80	-5.77/-5.35	-6.19/-6.85	-6.78/-9.02
Θ(112.5°)	-15.13/-11.49	-10.36/-11.56	-15.25/-13.30	-7.74/-4.51	-2.65/-2.44	-4.19/-7.47	-6.94/-4.90	-5.62/-9.40	-9.22/-6.50	-7.03/-10.77	-9.54/-5.90	-4.98/-5.35	-5.46/-6.09	-7.47/-7.42	-8.81/-9.17	-6.60/-6.82	-5.98/-6.76	-8.87/-11.96	-12.03/-12.94	-14.80/-12.23	-7.88/-6.33	-3.98/-4.22	-6.07/-8.77	-10.35/-11.79
Θ(120°)	-9.20/-11.36	-12.20/-11.11	-9.06/-8.64	-9.18/-9.60</																				

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

