



Appendix B.1

[illegible]



Antenna Pattern of 6GHz_6G Ant1~4

Appendix B.1

Θ(22.5°)	-7.52/-8.03	-5.97/-3.82	-4.10/-5.62	-7.53/-9.21	-7.40/-6.75	-5.35/-3.88	-2.72/-3.23	-3.01/-5.62	-6.96/-3.98	-2.88/-2.27	-3.77/-6.81	-6.56/-6.77	-10.41/-8.96	-5.43/-5.30	-5.69/-5.15	-5.26/-5.66	-4.73/-3.20	-3.51/-3.74	-4.33/-4.80	-3.21/-1.05	-0.42/-1.87	-4.72/-6.14	-4.34/-6.63	-9.21/-7.76
Θ(30°)	-4.54/-5.20	-5.52/-4.68	-4.15/-4.46	-4.02/-2.84	-3.78/-3.48	-2.16/-1.87	-1.77/-3.30	-2.77/-2.03	-1.04/-3.58	-3.94/-0.91	-5.34/-2.72	-2.11/-3.80	-4.70/-3.26	-3.25/-5.34	-5.07/-2.47	-1.51/-1.46	-1.36/-1.88	-2.03/-0.64	-1.93/-4.00	-2.32/-1.54	-3.59/-5.91	-5.63/-7.79	-6.72/-6.87	
Θ(42.5°)	-5.22/-3.72	-3.62/-3.40	-2.59/-3.22	-4.43/-5.85	-5.84/-2.81	-2.69/-2.49	-2.88/-2.95	-3.30/-1.50	-0.93/-3.55	0.41/-1.05	-0.30/-1.67	-1.99/-0.78	-0.03/-2.36	-5.64/-5.06	-2.75/-1.52	-1.85/-1.10	1.09/0.95	0.86/-1.55	1.12/0.59	-0.84/-1.10	-3.82/-7.49	-7.67/-12.10	-5.52/-6.99	
Θ(45°)	-4.14/-4.14	-0.44/-0.92	-2.84/-3.87	-2.12/-1.28	-0.68/-1.42	-1.21/-1.26	-0.26/-3.80	-1.16/-0.93	0.48/-0.26	1.61/-1.86	0.25/-0.25	-0.90/-0.68	-0.14/-1.58	-5.66/-5.22	-2.58/-0.18	-1.49/-1.39	0.43/0.15	-1.47/-2.46	-1.30/0.88	1.81/-1.75	-0.20/0.74	-2.76/-5.30	-6.22/-7.63	-3.73/-4.71
Θ(52.5°)	-0.52/-0.93	0.83/-1.99	-2.49/-3.41	-2.36/-3.04	-0.41/-2.82	-3.28/0.09	1.14/-0.16	-2.68/-1.25	0.36/0.24	-0.23/-1.54	0.92/-0.25	0.21/-0.78	-1.63/-0.78	-3.35/-5.54	-2.09/0.48	-1.71/-1.73	0.42/2.34	2.81/2.33	2.70/4.00	4.20/3.74	1.44/0.84	-1.85/-7.00	-5.82/-5.36	-2.34/-1.02
Θ(60°)	-1.88/-1.50	0.67/0.32	0.18/-3.42	-1.75/-0.51	0.46/-1.96	-1.41/0.93	2.43/-1.49	-1.66/-2.40	-0.98/-0.78	0.09/0.99	0.28/0.76	1.12/0.69	-0.63/0.19	-1.53/-4.65	2.65/-3.30	1.28/-1.31	-3.02/-1.59	0.52/0.91	2.61/2.36	2.05/-1.90	-1.86/-6.07	-5.30/-4.16	-2.92/0.73	
Θ(67.5°)	2.89/-1.14	0.50/-1.99	1.05/-2.35	-0.39/-0.31	1.06/-3.04	-1.52/0.71	0.62/-1.34	0.15/-1.10	-2.68/-2.63	0.14/0.31	0.38/-1.57	1.69/-1.90	0.77/-1.49	-0.77/-4.38	-2.04/-0.02	1.94/0.20	-2.00/0.14	-1.67/-6.91	-3.18/-0.77	2.31/2.31	1.55/-1.45	-3.80/-4.77	-3.17/-3.91	-3.64/-1.70
Θ(75°)	2.79/0.23	-0.09/-1.80	0.19/-1.34	-0.35/-0.23	0.27/-2.97	-2.60/0.24	0.45/-1.57	-0.29/-0.27	-1.86/-4.67	-0.44/-0.36	0.35/2.75	1.67/2.39	1.67/0.88	-0.08/-2.43	-3.34/-1.75	1.53/2.28	0.41/-1.17	3.25/-1.69	1.98/-2.11	2.82/-2.97	1.70/-1.37	-7.78/-3.37	-2.23/-3.82	-4.22/0.98
Θ(82.5°)	1.53/0.45	-0.36/-1.31	-0.39/-0.25	-0.53/-1.11	-2.44/-3.41	-2.59/0.95	1.33/2.37	-1.52/0.11	-1.70/-4.98	-1.90/-0.38	0.21/2.66	1.69/-1.33	1.36/0.61	-1.29/-0.37	-3.40/-1.18	-0.70/3.04	1.04/2.27	4.73/3.66	3.29/3.73	3.73/3.13	-0.17/-1.00	-9.43/-6.13	-3.18/-2.81	-3.53/-1.04
Θ(90°)	-0.04/-0.64	-0.84/0.58	-0.23/-0.63	-0.66/-2.59	-4.64/-4.02	-2.88/-0.22	0.25/2.24	-1.46/-0.36	-2.62/-3.74	-3.55/-1.73	-0.01/-1.90	1.12/0.27	0.32/0.48	-1.57/-1.04	-5.42/-2.84	-1.53/2.20	1.19/-1.60	3.08/3.42	2.16/2.86	2.50/-1.79	-1.98/-0.23	-9.48/-5.82	-3.94/-2.14	-2.97/0.87
Θ(97.5°)	-1.32/-2.22	-2.41/-1.74	-1.55/-1.26	-1.78/-4.22	-7.31/-3.24	-3.56/-4.35	-1.25/-1.30	-3.73/-1.49	-2.38/-4.20	-3.95/-2.68	-1.62/-1.37	-1.00/-0.70	-1.43/-0.92	-4.66/-9.56	-3.02/-3.54	-1.11/-0.64	0.25/-3.16	-0.61/-1.03	-1.40/0.29	-0.17/-1.32	-3.29/-3.36	-12.59/-6.86	-4.08/-2.55	-2.01/-0.36
Θ(105°)	-2.28/-3.21	-2.79/-3.20	-1.32/-2.68	-5.73/-5.43	-5.82/-3.35	-2.88/-6.45	-3.62/-1.41	-3.88/-3.03	-1.04/-6.82	-4.09/-3.60	-3.97/0.36	-1.96/-3.00	-1.84/-2.59	-4.48/-3.81	-11.01/-8.93	-3.48/-2.73	-2.98/-7.32	-3.52/-3.00	-4.40/-2.70	-3.76/-5.49	-5.16/-6.08	-10.42/-6.53	-5.13/-4.83	-2.71/-3.68
Θ(112.5°)	-4.66/-2.72	-3.56/-3.18	-2.23/-4.09	-7.44/-7.96	-5.80/-3.56	-1.86/-3.04	-1.95/-2.12	-5.20/-2.13	-3.24/-7.87	-3.23/-4.39	-5.76/-1.54	-4.12/-5.20	-5.44/-4.83	-6.24/-7.41	-7.76/-11.92	-7.54/-5.60	-4.15/-4.12	-3.05/-8.92	-4.14/-3.61	-8.79/-6.68	-13.08/-13.98	-7.81/-6.98	-7.65/-7.56	-5.36/-5.23
Θ(120°)	-7.00/-4.19	-4.38/-2.45	-3.90/-5.09	-7.09/-8.21	-4.72/-4.00	-5.45/-5.20	-2.91/-2.83	-5.46/-2.41	-4.34/-3.61	-3.20/-7.33	-5.38/-4.80	-7.02/-6.33	-12.46/-5.00	-4.86/-6.05	-7.15/-9.58	-5.51/-6.24	-4.09/-8.40	-4.66/-9.56	-3.05/-4.50	-7.20/-10.76	-5.87/-6.06	-7.07/-5.16	-6.64/-6.69	-8.19/-5.20
Θ(127.5°)	-7.61/-5.93	-7.45/-4.37	-4.91/-5.60	-10.39/-8.81	-7.35/-5.98	-4.96/-2.53	-3.62/-6.54	-5.10/-4.49	-4.07/-4.55	-5.40/-3.78	-9.20/-6.42	-7.53/-6.51	-7.42/-5.41	-11.02/-10.55	-7.46/-6.76	-5.56/-5.72	-7.76/-6.05	-4.15/-14.18	-4.54/-8.07	-8.86/-15.35	-5.94/-6.48	-9.18/-8.34	-8.17/-9.87	-8.10/-5.36
Θ(135°)	-9.14/-6.88	-5.85/-5.96	-5.71/-7.60	-9.70/-8.52	-7.25/-7.05	-6.92/-5.58	-6.98/-8.71	-7.55/-5.82	-4.29/-3.70	-4.09/-1.52	-6.77/-7.98	-9.82/-8.16	-11.66/-7.71	-6.76/-10.70	-9.52/-9.32	-14.79/-5.42	-11.35/-4.68	-4.63/-10.73	-7.63/-11.19	-14.55/-6.13	-10.05/-8.93	-14.02/-12.21	-10.87/-7.94	-6.49/-6.47
Θ(142.5°)	-9.01/-7.98	-7.03/-6.41	-6.59/-10.08	-13.16/-8.07	-8.52/-8.67	-6.06/-7.53	-8.35/-8.31	-8.31/-6.89	-5.35/-5.25	-3.02/-4.28	-4.51/-3.28	-8.85/-9.28	-6.70/-7.72	-7.07/-8.70	-10.11/-12.17	-14.94/-14.04	-15.72/-10.98	-12.69/-10.50	-6.34/-8.33	-11.18/-9.72	-11.72/-14.06	-14.84/-12.18	-14.10/-10.78	-8.76/-9.99
Θ(150°)	-11.01/-10.24	-9.76/-9.66	-14.77/-15.91	-13.08/-11.05	-8.47/-7.86	-7.84/-8.57	-8.03/-9.95	-6.88/-6.41	-5.43/-5.77	-6.57/-4.99	-3.03/-3.92	-5.87/-8.65	-6.81/-8.26	-12.34/-12.50	-14.84/-14.68	-10.58/-10.15	-12.00/-13.68	-13.01/-14.92	-15.41/-14.10	-15.24/-15.40	-15.89/-11.09	-9.74/-10.35	-9.12/-10.75	-10.22/-10.76
Θ(157.5°)	-10.00/-14.56	-13.52/-12.52	-11.45/-12.24	-11.70/-10.21	-9.74/-7.77	-8.45/-6.07	-5.84/-5.84	-6.00/-8.33	-7.32/-8.28	-8.91/-8.67	-7.78/-7.05	-7.57/-8.64	-7.54/-7.21	-9.70/-10.74	-12.45/-15.11	-14.21/-12.89	-11.67/-13.65	-9.71/-9.89	-10.82/-12.78	-14.61/-14.21	-9.73/-9.41	-12.78/-9.18	-8.78/-8.73	-8.16/-8.40
Θ(165°)	-8.54/-11.67	-13.86/-15.43	-15.49/-14.87	-13.31/-14.40	-12.17/-10.01	-8.04/-6.27	-6.07/-3.97	-4.19/-3.93	-5.22/-8.95	-10.81/-12.77	-12.14/-13.41	-13.94/-12.17	-10.18/-10.35	-14.22/-13.13	-10.14/-7.28	-8.26/-6.68	-7.56/-9.11	-8.07/-9.50	-11.20/-10.69	-13.68/-11.78	-11.36/-11.98	-11.00/-15.72	-13.95/-11.88	-10.30/-9.77
Θ(172.5°)	-10.16/-9.23	-9.45/-10.40	-8.89/-8.70	-9.25/-8.61	-7.68/-7.69	-7.82/-7.05	-7.79/-7.98	-9.47/-8.96	-12.07/-10.16	-10.82/-12.46	-12.45/-12.20	-11.34/-10.31	-10.11/-9.77	-9.08/-8.57	-8.81/-8.71	-10.09/-11.85	-13.56/-14.38	-13.12/-13.34	-13.57/-12.07	-12.84/-13.71	-13.54/-14.99	-13.04/-11.51	-11.64/-11.19	
Θ(180°)	-8.20/-7.41	-7.18/-8.50	-8.49/-7.64	-6.24/-7.11	-6.44/-6.43	-6.29/-6.63	-6.95/-7.38	-6.00/-7.37	-6.61/-6.79	-10.06/-12.88	-14.01/-14.44	-15.65/-15.07	-13.93/-11.42	-9.94/-9.29	-9.83/-9.70	-11.27/-10.09	-10.36/-9.94	-9.70/-9.38	-9.82/-8.67	-7.51/-7.51	-8.17/-7.69			
Freq(Hz)	6.4750Pol.	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°)	-2.53/-2.59	-3.07/-2.43	-3.44/-3.02	-2.80/-2.76	-3.17/-3.29	-3.60/-3.22	-3.47/-3.37	-3.50/-3.52	-4.70/-4.21	-4.55/-5.10	-5.16/-5.29	-5.48/-5.73	-5.01/-4.42	-4.59/-5.76	-4.49/-3.90	-4.84/-4.16	-4.58/-3.53	-4.70/-4.31	-4.40/-3.56	-4.56/-3.96	-4.65/-3.50	-4.82/-4.42	-3.54/-2.84	-2.56/-3.01
Θ(7.5°)	-2.71/-4.82	-6.83/-2.93	-5.91/-7.00	-5.35/-3.53	-2.16/-1.85	-1.25/-1.66	-1.37/-2.30	-1.76/-2.04	-2.97/-2.91	-4.03/-4.85	-5.40/-6.55	-7.19/-7.65	-8.13/-7.94	-6.29/-4.74	-6.31/-3.82	-4.18/-3.22	-4.71/-5.99	-5.78/-6.70	-7.99/-7.87	-6.07/-4.81	-3.71/-4.12	-3.10/-3.12		
Θ(15°)	-5.93/-8.23	-12.09/-9.82	-4.80/-4.33	-2.96/-3.18	-2.79/-3.92	-3.90/-4.92	-5.28/-6.85	-7.65/-9.15	-8.29/-7.23	-6.50/-7.29	-7.30/-6.98	-5.46/-4.58	-5.58/-7.30	-6.67/-4.17	-2.51/-2.17	-1.87/-2.13	-3.57/-3.98	-3.66/-4.41	-5.28/-5.19	-7.74/-6.71	-6.91/-6.75	-5.58/-6.48	-10.33/-13.01	-7.48/-6.77
Θ(22.5°)	-9.01/-5.78	-3.92/-4.55	-10.94/-15.50	-8.33/-5.40	-4.23/-3.76	-3.74/-3.53	-3.36/-4.98	-4.00/-4.39	-2.99/-4.11	-2.62/-1.76	-2.89/-5.08	-8.72/-8.15	-6.41/-4.84	-4.01/-3.65	-3.32/-2.65	-3.11/-4.21	-2.67/-4.06	-3.23/-3.43	-1.63/-1.41	-2.63/-4.94	-5.50/-4.37	-4.33/-4.18	-4.97/-7.92	
Θ(30°)	-5.44/-6.38	-6.01/-6.45	-7.98/-6.78	-5.96/-5.88	-5.19/-3.58	-4.67/-3.83	-2.54/-1.96	-0.81/-1.3	1.04/-0.62	-1.17/-0.71	-2.43/-6.06	-3.02/-1.67	-4.54/-6.61	-5.06/-3.64	-3.20/-3.70	-1.95/-0.13	-0.07/-0.24	0.22/-0.48	-2.13/-1.16	-0.50/-1.89	-4.62/-3.80	-5.58/-4.75	-3.97/-3.78	
Θ(37.5°)	-6.39/-7.18	-3.49/-3.58	-6.16/-7.56	-5.49/-3.38	-1.14/-1.45	-2.99/-3.69	-4.61/-3.33	-2.48/-0.72	-1.24/-1.14	2.08/0.31	-0.74/-1.24	-4.56/-4.11	-1.72/-2.00	-4.70/-7.47	-4.20/-1.15	0.24/2.26	3.14/2.15	1.73/-1.32	1.46/-1.30	1.96/-0.86	-0.21/-0.79	-4.95/-4.79	-8.20/-6.01	-7.23/-4.80
Θ(45°)	-8.67/-3.94	-3.65/-3.71	-3.40/-4.82	-3.18/-1.49	-2.23/-4.95	-2.34/-3.05	0.82/-1.00	-0.55/-1.31	-0.38/-1.19	-0.99/-1.43	0.41/-2.39	-7.45/-2.10	-4.03/-3.76	-3.20/-3.98	-2.70/-0.57	-0.99/0.97	0.77/-0.68	0.76/-1.40	0.99/-0.27	1.58/-1.18	0.25/0.90	-5.21/-5.14	-8.99/-4.37	-7.96/-6.73
Θ(52.5°)	-4.10/-3.71	-3.78/0.13	-0.27/-0.82	-2.30/-1.39	-1.53/-2.53	0.25/0.19	-1.78/-2.44	0.03/-0.84	-1.53/-2.97	-2.07/-2.57	-1.23/-2.08	-4.87/-1.45	-4.72/-2.56	-4.12/-3.18	-2.43/-1.30	-1.95/-0.70	2.20/2.29	1.89/-1.17	3.72/3.04	2.61/-2.46	0.81/-2.68	-2.86/-6.63	-8.28/-7.55	-2.81/-7.77
Θ(60°)	0.44/-5.31	-1.03/0.56	-0.35/-1.78	-2.52/-2.20	-7.49/-6.81	-1.97/-0.20	-0.04/-1.70	-1.23/0.89	0.03/-2.12	-2.10/-2.61	-0.11/-0.58	-1.39/0.39	-1.38/-0.00	-4.32/-5.16	-0.95/-1.98	0.58/-1.26	1.40/0.80	0.57/-1.96	2.32/2.99	2.62/-2.46	0.65/-2.85	-1.80/-7.46	-7.70/-10.63	-1.99/-1.48
Θ(67.5°)	1.64/-3.05	-1.11/-0.89	-3.26/-3.04	-2.79/-3.30	-7.84/-9.93	0.20/-1.23	2.32/2.08	-2.12/0.98	0.91/0.01	-1.42/-1.29	0.97/0.56	1.39/-1.42	0.89/0.00	-1.16/-2.90	-1.13/-3.33	1.88/-0.59	-3.11/-0.66	-0.86/-3.89	-5.78/-0.53	1.30/2.19	1.58/-1.82	-3.36/-5.91	-3.59/-7.77	-1.35/-1.96
Θ(75°)	1.63/-2.68	-0.63/-2.81	-1.93/-3.73	-3.26/-3.41	-3.80/-2.22	1.34/0.27	0.37/-1.29	-0.45/-1.17	-1.18/0.64	-0.12/-0.98	1.57/-1.14	3.33/-8.1	2.09/-2.22	0.14/-0.87	-3.63/-7.19	2.72/-0.44	-1.10/3.24	2.25/-3.19	3.11/-0.22	2.64/-1.66	2.11/-1.16	-6.20/-5.60	-3.11/-3.85	-0.63/-1.08
Θ(82.5°)	1.50/-1.																							



Antenna Pattern of 6GHz_6G Ant1~4

Appendix B.1

Θ(67.5°)	0.58/1.06	1.28/-0.17	-0.19/0.27	-1.00/-1.79	-3.70/-1.30	0.81/-1.42	-2.42/-0.94	2.31/4.14	4.84/4.60	1.80/-0.30	0.20/1.00	1.90/0.86	-0.09/-1.00	1.80/0.71	1.69/0.29	1.15/5.18	3.82/3.58	2.32/1.12	1.15/0.86	1.21/1.72	1.10/-2.66	-1.66/2.17	3.37/2.75	1.87/0.79
Θ(75°)	0.55/1.20	1.74/0.02	0.23/0.82	-1.29/-0.14	-2.79/0.01	-0.07/-2.85	-4.28/-3.69	0.31/3.84	3.36/3.96	1.16/-0.74	1.06/0.27	-0.84/-0.70	-0.57/-0.98	0.50/-2.11	-0.38/2.94	4.09/4.19	2.80/1.48	2.61/3.32	3.92/4.03	1.85/-3.23	-2.76/0.92	2.82/1.95	1.46/0.55	
Θ(82.5°)	-0.31/2.17	1.74/-0.31	-0.43/0.13	-2.50/-0.07	-2.30/0.76	-2.41/-4.22	-4.97/-6.45	-3.04/2.28	1.22/2.41	-0.27/-1.34	-2.12/-1.39	-0.34/-0.32	-2.28/-1.15	-2.17/-1.09	-0.29/2.36	3.49/3.05	0.42/0.51	2.33/2.40	3.62/3.61	0.80/-5.67	-4.04/-0.79	1.14/0.84	0.79/0.32	
Θ(90°)	-1.83/-0.47	0.76/-1.20	-1.84/-0.64	-3.03/-1.72	-4.16/-0.07	-3.41/-4.42	-3.78/-6.13	-5.62/0.86	0.06/0.83	-0.04/-1.69	-2.81/-2.41	-0.51/-2.15	-4.23/-3.63	-4.09/-2.88	-2.11/5.44	-3.18/-2.21	0.93/0.26	-2.47/-2.72	0.69/0.34	1.66/1.45	-2.16/0.94	-6.96/-3.70	-1.47/-1.37	-0.80/-0.46
Θ(97.5°)	-4.50/-3.72	-1.92/-2.90	-4.73/-3.51	-5.33/-4.42	-6.58/-2.91	-6.83/-8.39	-6.17/-8.66	-9.19/-1.57	-2.42/-0.82	-4.98/-3.71	-3.37/-5.06	-5.58/-4.47	-5.25/-4.91	-4.90/-6.02	-5.09/-4.75	-2.45/-4.22	-8.09/-6.27	-1.57/-4.01	-1.53/-2.31	-4.93/-10.36	-8.55/-4.88	-3.30/-3.48	-3.48/-2.33	
Θ(105°)	-4.72/-6.83	-5.26/-4.77	-5.93/-6.02	-5.98/-6.82	-6.72/-6.87	-6.23/-6.88	-6.21/-6.49	-5.97/-4.07	-2.30/-1.70	-2.63/-6.68	-5.35/-4.27	-6.13/-6.53	-8.01/-7.98	-6.17/-5.62	-8.04/-5.99	-5.65/-6.48	-11.39/-7.97	-6.78/-6.16	-4.47/-6.04	-7.21/-8.73	-8.54/-7.34	-4.35/-4.53	-5.36/-4.79	
Θ(112.5°)	-6.34/-8.17	-8.75/-6.23	-7.87/-11.14	-8.14/-10.88	-8.94/-6.71	-8.47/-9.86	-9.04/-10.95	-10.15/-5.26	-3.23/-4.93	-7.02/-7.62	-7.76/-6.20	-8.50/-6.36	-7.47/-7.65	-9.12/-5.09	-6.59/-7.26	-9.18/-5.61	-5.50/-4.88	-10.01/-9.48	-4.53/-8.40	-5.26/-7.39	-8.59/-9.16	-12.62/-9.25	-4.98/-5.71	-7.75/-5.12
Θ(120°)	-10.00/-6.57	-7.09/-8.21	-8.81/-7.37	-6.99/-8.45	-11.21/-7.86	-6.36/-8.84	-9.24/-12.43	-10.81/-6.48	-6.94/-7.06	-9.17/-9.10	-8.51/-9.51	-9.14/-7.35	-10.30/-10.30	-12.10/-10.39	-6.51/-7.40	-15.12/-8.52	-8.28/-5.73	-10.24/-10.99	-9.33/-10.07	-10.94/-8.64	-13.10/-13.61	-15.71/-8.91	-6.12/-7.65	-9.05/-8.73
Θ(127.5°)	-11.07/-9.19	-9.21/-8.22	-6.67/-9.93	-12.19/-7.04	-5.06/-8.33	-12.17/-10.21	-7.34/-9.68	-12.11/-9.33	-7.53/-7.71	-9.73/-10.96	-8.42/-7.83	-9.35/-14.44	-11.51/-11.94	-13.13/-8.29	-7.47/-9.55	-9.46/-10.50	-6.00/-8.51	-13.90/-7.67	-6.79/-6.95	-8.82/-6.20	-7.51/-8.45	-12.58/-9.19	-3.88/-5.50	-10.92/-9.33
Θ(135°)	-13.62/-14.92	-14.88/-8.78	-9.87/-10.20	-7.82/-10.77	-9.94/-10.25	-9.71/-12.41	-10.05/-9.88	-12.84/-5.58	-4.49/-9.27	-9.99/-12.84	-12.57/-13.46	-11.68/-13.51	-12.22/-13.45	-11.19/-6.98	-8.17/-14.00	-10.56/-5.17	-3.77/-8.96	-11.13/-11.03	-8.11/-6.39	-6.69/-4.73	-4.63/-10.85	-14.10/-10.77	-6.77/-7.62	-8.19/-9.05
Θ(142.5°)	-9.92/-11.26	-14.57/-15.57	-14.08/-9.77	-9.05/-11.67	-8.46/-10.77	-10.93/-11.54	-12.02/-8.73	-9.43/-9.59	-6.51/-6.32	-9.64/-13.21	-13.25/-12.62	-11.44/-12.35	-12.39/-10.72	-11.19/-10.72	-13.90/-11.54	-10.57/-11.83	-12.07/-14.40	-11.75/-14.03	-15.29/-12.74	-12.11/-13.87	-12.70/-12.12	-12.87/-9.82	-9.78/-10.63	
Θ(150°)	-11.13/-12.14	-11.29/-8.65	-10.26/-14.04	-11.55/-7.35	-6.72/9.27	-13.52/-8.17	-8.38/-8.48	-7.22/-8.12	-10.06/-9.90	-11.42/-13.89	-11.40/-9.45	-10.03/-12.66	-12.28/-10.50	-8.37/-5.69	-6.33/-9.61	-12.54/-13.10	-12.79/-12.92	-11.71/-11.45	-11.14/-9.55	-10.38/-13.18	-13.42/-10.49	-9.82/-10.01	-8.31/-9.34	
Θ(157.5°)	-8.81/-9.23	-12.15/-15.20	-13.83/-9.24	-6.95/-7.02	-6.58/-6.40	-7.17/-9.98	-13.51/-14.96	-13.89/-12.23	-13.79/-14.73	-14.72/-12.98	-12.97/-14.67	-15.26/-13.67	-12.24/-10.65	-8.49/-9.05	-10.18/-12.17	-13.55/-10.99	-11.67/-15.58	-14.73/-12.35	-11.51/-14.58	-15.19/-14.96	-14.76/-14.48	-13.91/-10.82	-9.70/-9.16	-9.80/-9.46
Θ(165°)	-12.38/-15.31	-14.83/-15.46	-11.80/-9.67	-9.83/-11.69	-11.94/-11.65	-10.60/-10.63	-13.25/-15.37	-15.35/-14.08	-11.42/-9.19	-9.19/-11.13	-12.20/-11.32	-11.75/-12.31	-12.01/-11.32	-11.19/-10.72	-10.45/-10.38	-10.71/-11.57	-13.10/-14.29	-13.55/-12.67	-12.56/-11.43	-10.83/-11.52	-12.44/-13.63	-13.83/-13.18	-13.25/-10.45	-9.32/-11.17
Θ(172.5°)	-13.37/-12.44	-11.45/-9.98	-9.97/-10.86	-11.41/-12.25	-13.95/-14.57	-14.87/-16.03	-15.39/-14.81	-12.99/-10.07	-10.98/-11.10	-11.87/-12.36	-12.62/-11.54	-11.44/-12.21	-12.58/-13.97	-14.04/-12.52	-11.61/-11.20	-10.77/-10.67	-10.16/-9.74	-9.15/-8.74	-8.71/-8.61	-8.54/-8.84	-9.18/-9.93	-14.39/-9.98	-11.49/-12.13	-13.83/-14.73
Θ(180°)	-15.52/-15.32	-14.43/-15.79	-15.26/-15.64	-14.23/-14.10	-13.29/-12.45	-12.13/-11.44	-11.03/-10.86	-10.51/-9.78	-9.23/-8.86	-8.79/-8.53	-8.83/-9.90	-11.47/-12.61	-13.90/-14.37	-14.32/-14.21	-13.95/-14.18	-14.65/-15.45	-14.98/-15.86	-15.16/-14.82	-14.91/-14.91	-15.67/-15.42	-15.10/-15.02	-15.01/-15.06	-15.43/-15.84	-14.82/-15.74
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°)	-1.74/-1.65	-1.86/-1.75	-1.95/-1.93	-2.14/-2.12	-2.09/-1.74	-1.56/-1.65	-1.85/-1.94	-1.93/-2.02	-2.31/-2.38	-2.55/-2.84	-3.17/-3.34	-3.80/-4.22	-4.43/-4.84	-4.93/-5.09	-5.07/-5.14	-4.89/-4.95	-4.51/-4.08	-4.06/-3.70	-3.33/-3.19	-3.15/-3.02	-2.85/-2.47	-2.30/-2.13	-1.93/-1.64	-1.50/-1.59
Θ(7.5°)	-3.18/-2.88	-2.82/-2.61	-2.78/-2.63	-2.78/-2.94	-2.93/-2.94	-2.82/-2.70	-2.93/-2.68	-2.52/-2.59	-2.51/-2.31	-2.16/-2.15	-2.26/-2.66	-3.22/-4.23	-5.59/-6.97	-7.82/-8.26	-7.89/-8.22	-9.00/-9.49	-9.58/-9.01	-8.73/-8.67	-9.05/-9.41	-9.73/-10.06	-10.85/-10.58	-8.89/-6.40	-4.72/-3.39	-3.22/-3.13
Θ(15°)	-3.82/-3.78	-3.28/-1.96	-1.51/-1.32	-2.04/-2.50	-3.34/-4.85	-6.27/-3.77	-7.55/-6.79	-5.44/-3.34	-1.37/0.13	0.91/0.19	0.47/-0.34	-3.18/-3.15	-3.21/-3.34	-4.35/-5.67	-6.87/-7.35	-6.94/-6.19	-5.07/-4.31	-3.42/-2.82	-2.13/-1.62	-1.29/-1.53	-2.24/-3.63	-5.84/-6.05	-4.85/-4.48	
Θ(22.5°)	-2.83/-2.92	-1.90/-0.34	0.16/-1.21	-3.50/-3.07	-2.81/-2.53	-2.34/-2.55	-3.25/-3.28	-2.84/-1.82	-0.91/-0.03	0.76/1.02	0.36/-1.03	-3.03/-5.21	-5.74/-4.84	-4.22/-3.81	-2.40/-1.29	-0.58/-1.01	-2.88/-4.53	-5.09/-4.54	-3.79/-3.51	-3.39/-2.78	-2.09/-2.20	-2.87/-3.40	-4.50/-5.29	-4.37/-2.77
Θ(30°)	-0.36/-0.10	0.73/1.71	1.45/0.06	-0.79/-0.99	-1.26/-1.40	-0.47/-0.14	-0.13/-0.12	0.02/-0.18	-0.60/-1.35	-1.51/-0.87	-0.12/-0.23	-1.21/-3.25	-4.26/-3.88	-2.32/0.01	1.25/-1.55	0.91/-1.11	-4.67/-7.80	-6.84/-4.55	-2.88/-2.46	-2.62/-2.68	-3.77/-5.41	-5.07/-5.42	-5.62/-6.07	-4.71/-1.71
Θ(37.5°)	0.03/0.78	2.27/2.60	2.68/0.63	-0.04/0.78	1.28/0.76	0.66/1.60	2.50/2.65	2.37/-1.34	-0.14/-1.84	-2.03/-1.32	-0.48/0.32	-0.54/-1.91	-1.72/-0.88	0.81/-1.32	0.94/0.41	0.12/0.07	-0.38/-0.69	-0.38/0.97	1.66/1.80	2.08/3.10	2.45/-0.65	-3.50/-3.55	-4.39/-3.99	-2.37/-1.20
Θ(45°)	1.01/-0.31	0.56/2.35	2.61/-1.45	0.68/-1.29	1.67/0.74	-0.62/0.44	1.72/-1.72	1.26/0.47	0.17/-1.01	-1.72/-1.14	-0.85/0.51	-0.05/-0.53	1.02/-1.64	1.92/0.94	0.36/-0.58	0.27/1.30	1.71/-1.86	0.92/-0.36	-0.58/-1.37	2.04/-2.88	3.43/2.30	-0.54/-3.29	-3.30/-1.80	0.63/-1.44
Θ(52.5°)	-0.38/-2.35	-2.31/-0.83	0.52/-1.28	0.42/0.32	0.05/-1.90	-3.84/-3.11	-1.15/-0.82	-0.91/0.19	1.52/-0.05	-1.29/-0.26	-0.78/0.26	0.08/0.22	1.87/-2.76	2.57/-1.00	1.24/0.15	1.13/0.88	-0.09/-0.20	-0.36/-1.84	-1.39/0.04	0.67/0.88	1.89/-1.35	-0.58/-2.46	-1.78/-1.34	0.40/-0.18
Θ(60°)	-2.13/-1.65	-1.92/-2.11	-0.76/0.08	-0.34/-2.53	-4.04/-3.76	-3.94/-4.16	-3.03/-1.57	1.22/0.32	3.43/3.09	-0.81/-0.51	0.10/-1.46	2.28/0.42	1.58/0.67	0.84/0.20	0.53/-1.26	-2.29/-2.10	-1.71/-0.77	0.61/0.52	0.62/-1.24	1.40/-0.49	-0.75/-1.60			
Θ(67.5°)	-1.03/0.85	1.60/-1.48	0.75/-1.24	1.50/-0.25	-2.46/-2.25	-3.50/-2.88	-3.91/-2.04	1.04/-0.95	4.05/-1.46	0.41/0.36	0.70/-2.44	1.63/0.23	1.09/-1.42	2.26/2.25	2.88/0.61	0.74/-0.18	1.54/-2.17	3.13/2.14	2.21/0.32	0.26/0.67	0.79/-0.41	1.54/-1.04	2.90/0.93	0.96/0.02
Θ(75°)	-1.16/-1.49	3.03/3.36	1.55/-1.73	2.99/-1.38	0.21/-2.33	-3.34/0.37	-0.53/0.55	0.87/3.48	3.64/3.28	0.63/-0.42	0.45/-1.54	0.79/-0.33	-0.29/0.17	0.98/-1.06	2.12/-0.71	-1.34/-1.02	3.55/-4.41	4.82/3.58	3.61/2.24	2.56/2.91	2.29/-2.04	0.77/-1.15	2.30/0.78	1.14/0.55
Θ(82.5°)	-1.92/0.34	2.49/2.45	0.72/0.92	1.55/-0.44	0.06/-6.75	-0.93/-0.12	-1.88/0.23	2.23/0.90	2.85/-1.13	-0.69/-0.42	0.11/0.84	-0.04/-1.85	-2.81/-2.50	-2.42/-0.76	-0.35/-4.65	-4.29/-1.96	4.08/-4.84	5.08/-3.40	3.68/2.05	3.70/3.78	3.10/0.56	-0.60/-0.45	0.04/-0.67	-1.42/-0.89
Θ(90°)	-4.61/-2.72	-0.02/0.03	-1.39/-0.61	-0.95/-2.18	-1.61/-8.80	-3.76/-2.65	-0.35/-4.54	-0.29/-2.49	-2.46/-5.92	-3.69/-1.98	-1.34/-3.97	-4.90/-3.47	-5.12/-2.25	-1.41/-4.90	-6.68/0.78	2.28/2.42	2.41/0.18	1.02/-1.33	1.10/1.12	0.73/-1.28	-2.34/-0.43	-0.62/-1.50	-2.70/-1.22	
Θ(97.5°)	-4.82/-3.64	-1.08/-1.92	-3.64/-2.50	-3.21/-2.53	-3.21/-8.47	-4.37/-4.73	-5.73/-5.69	-4.27/-4.65	-2.24/-3.25	-4.47/-6.91	-3.79/-3.67	-3.57/-4.64	-6.24/-4.76	-6.95/-3.42	-2.26/-6.19	-9.30/-2.26	-2.01/-2.81	-6.24/-8.84	-3.38/-8.53	-3.74/-2.77	-2.16/-3.82	-4.75/-1.31	-1.40/-2.66	-2.86/-2.19
Θ(105°)	-5.26/-4.68	-3.04/-2.22	-3.27/-2.80	-4.02/-3.10	-6.41/-3.89	-6.89/-7.93	-6.77/-6.50	-5.33/-2.94	-3.55/-4.49	-3.05/-4.92	-3.75/-3.05	-5.49/-6.51	-6.18/-5.11	-2.42/-5.02	-12.78/-3.73	-3.53/-6.12	-8.32/-10.24	-4.33/-4.92	-4.88/-5.61	-4.09/-5.64	-7.78/-2.22	-2.59/-4.69	-2.48/-4.01	
Θ(112.5°)	-5.54/-8.41	-6.80/-3.93	-5.10/-7.14	-6.45/-8.48	-6.66/-8.78	-12.17/-8.54	-6.38/-6.52	-6.05/-7.59	-3.58/-5.49	-4.22/-5.14	-7.08/-7.47	-8.76/-6.15	-8.69/-8.39	-7.81/-9.16	-8.01/-11.78	-15.46/-6.33	-8.93/-3.31	-8.75/-8.19	-6.73/-8.53	-5.90/-5.57	-6.79/-7.48	-8.60/-8.31	-5.37/-8.33	
Θ(120°)	-7.00/-11.27	-8.61/-5.84	-6.75/-7.82	-7.77/-8.46	-8.65/-7.73	-14.08/-11.81	-15.55/-13.68	-13.63/-6.13	-4.87/-3.65	-7.59/-8.80	-11.41/-7.09	-5.44/-8.87	-12.37/-7.85	-8.49/-10.52	-9.60/-9.97	-9.46/-13.08	-10.91/-5.73	-7.43/-8.92						

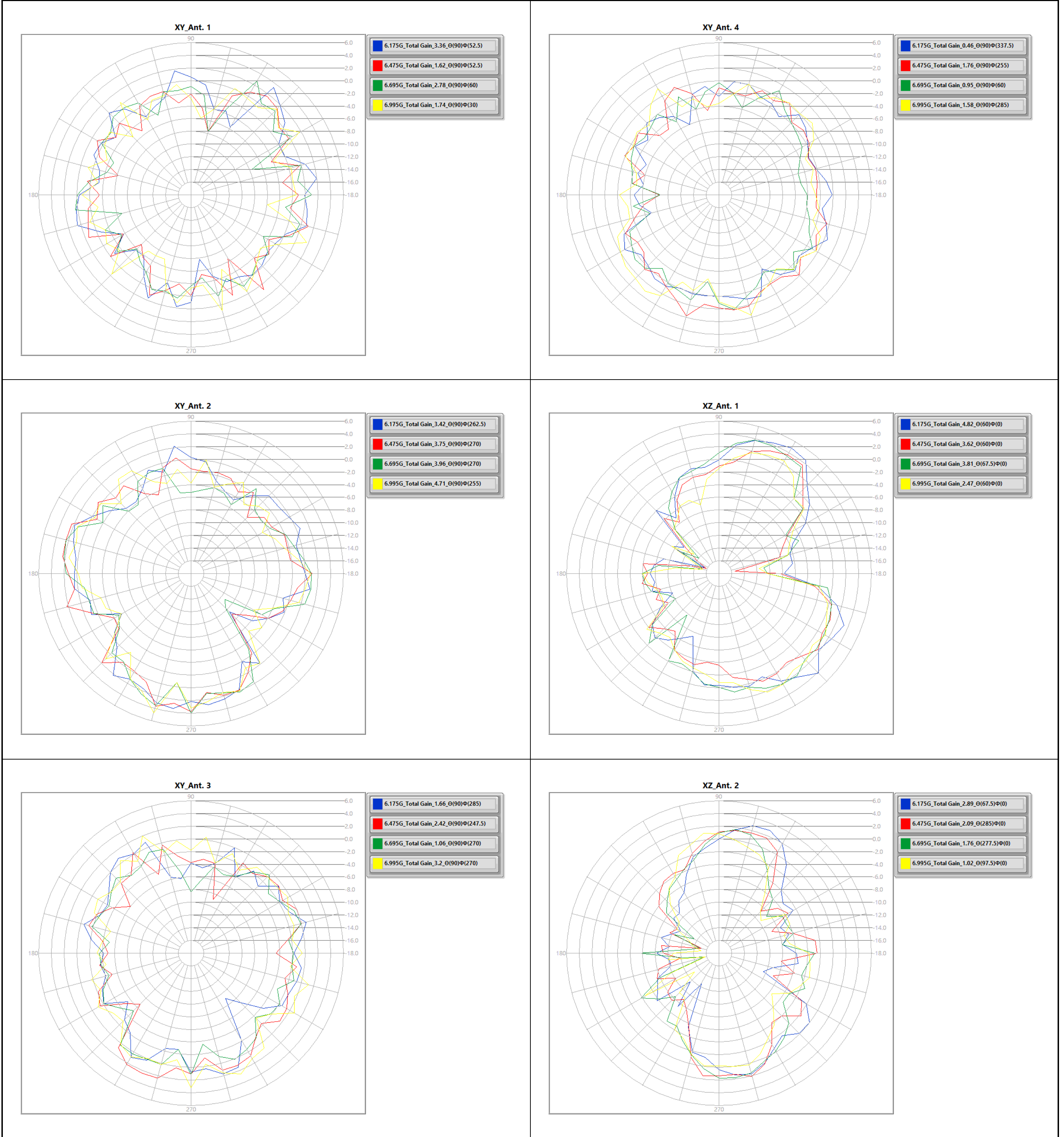


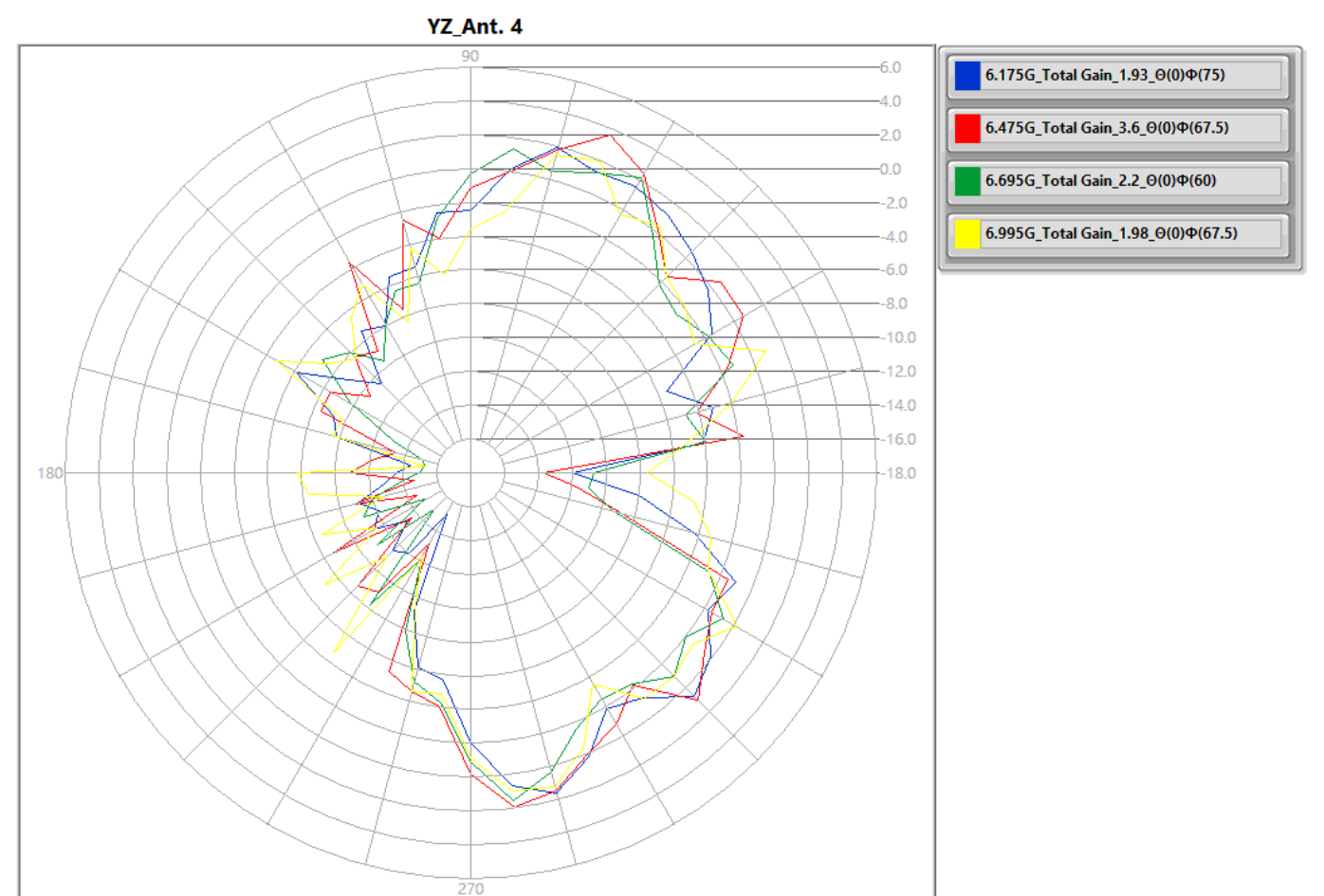
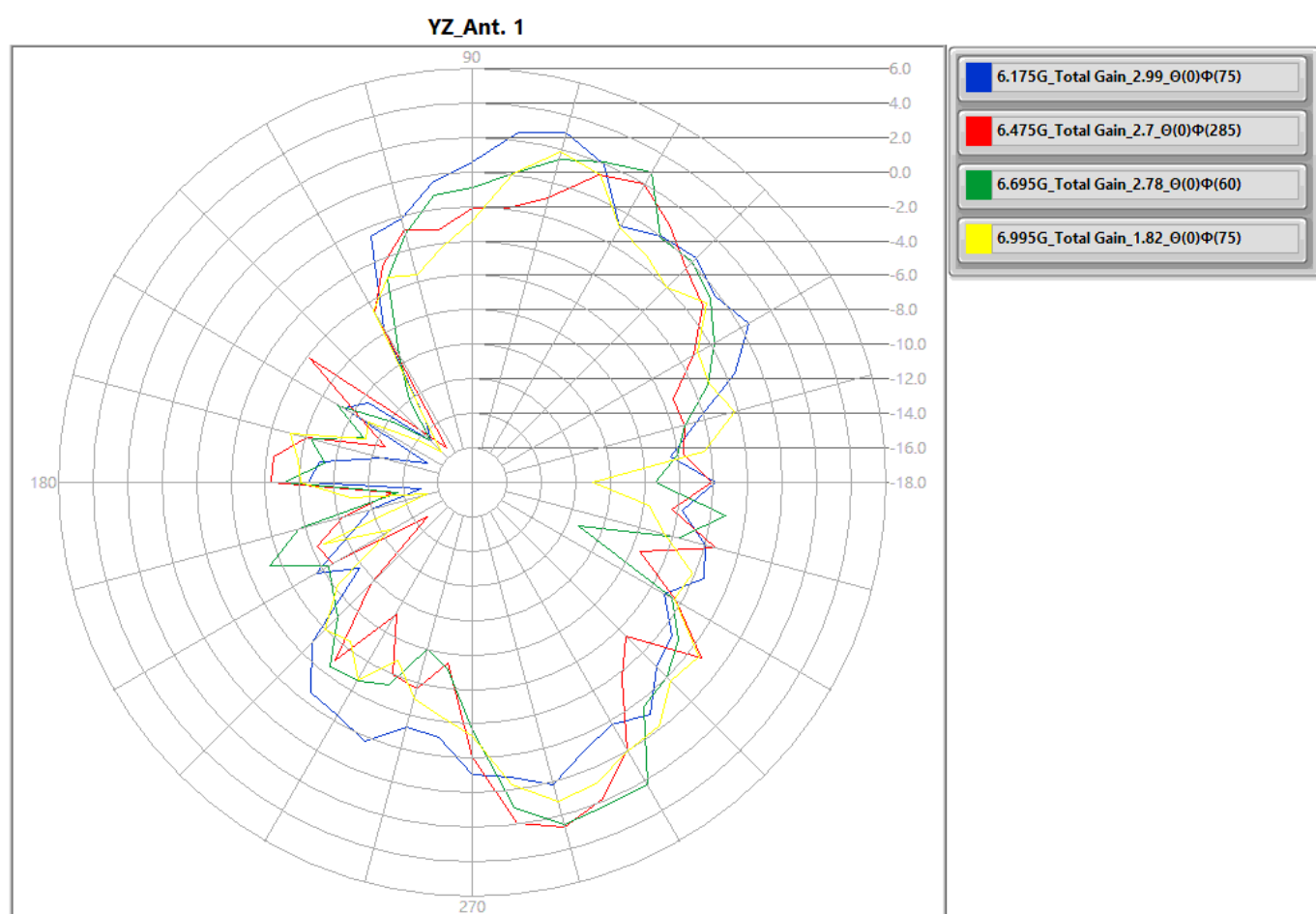
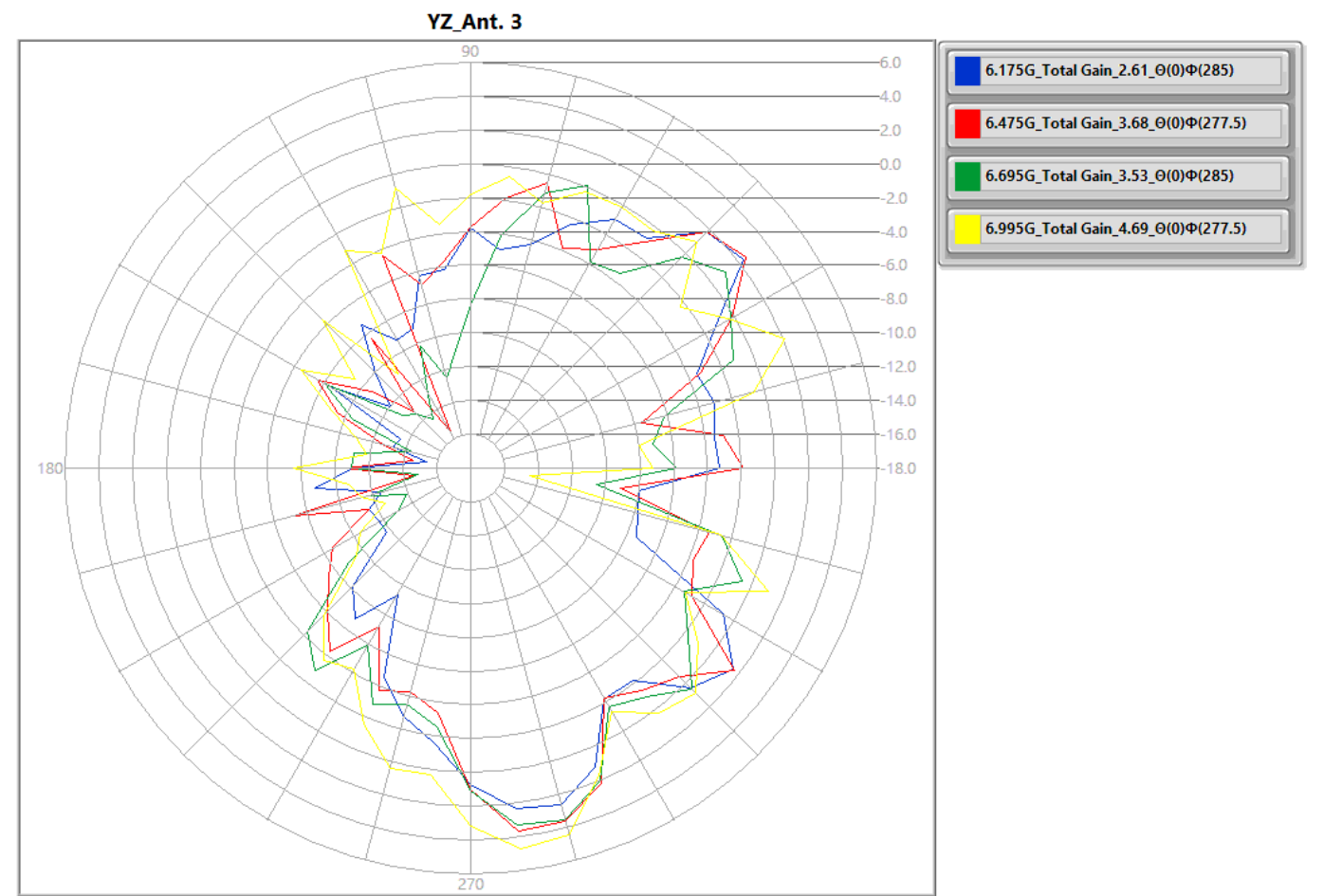
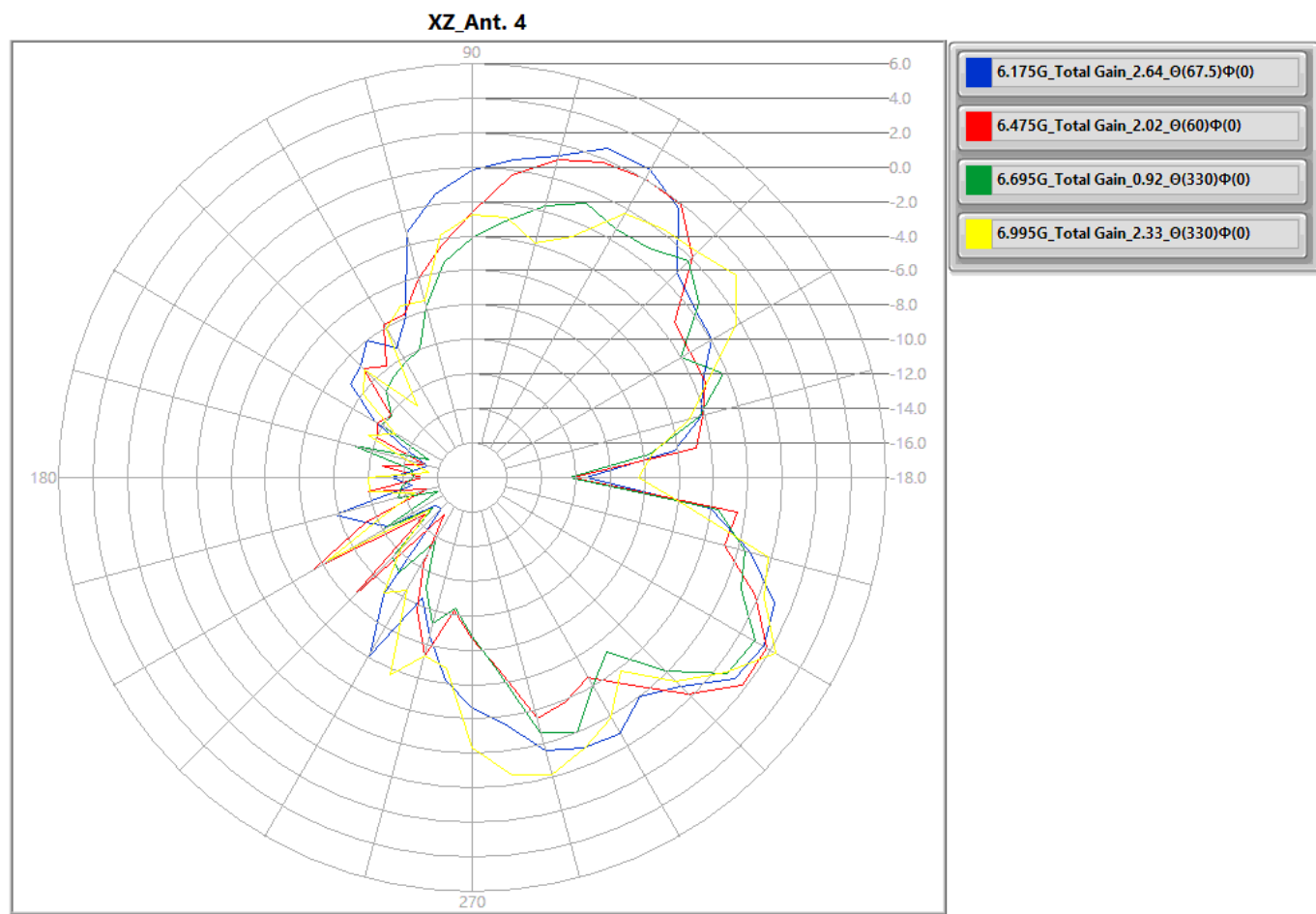
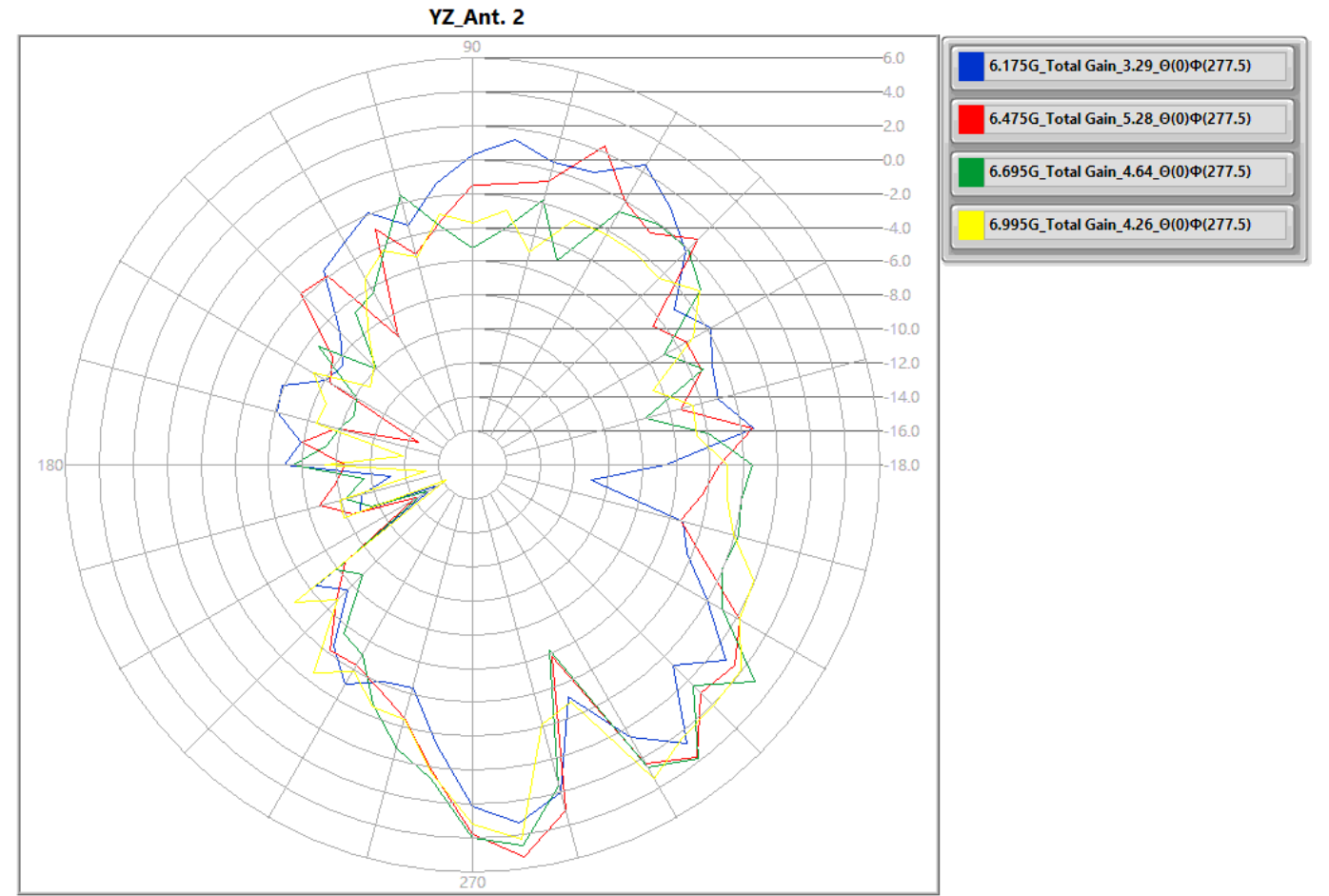
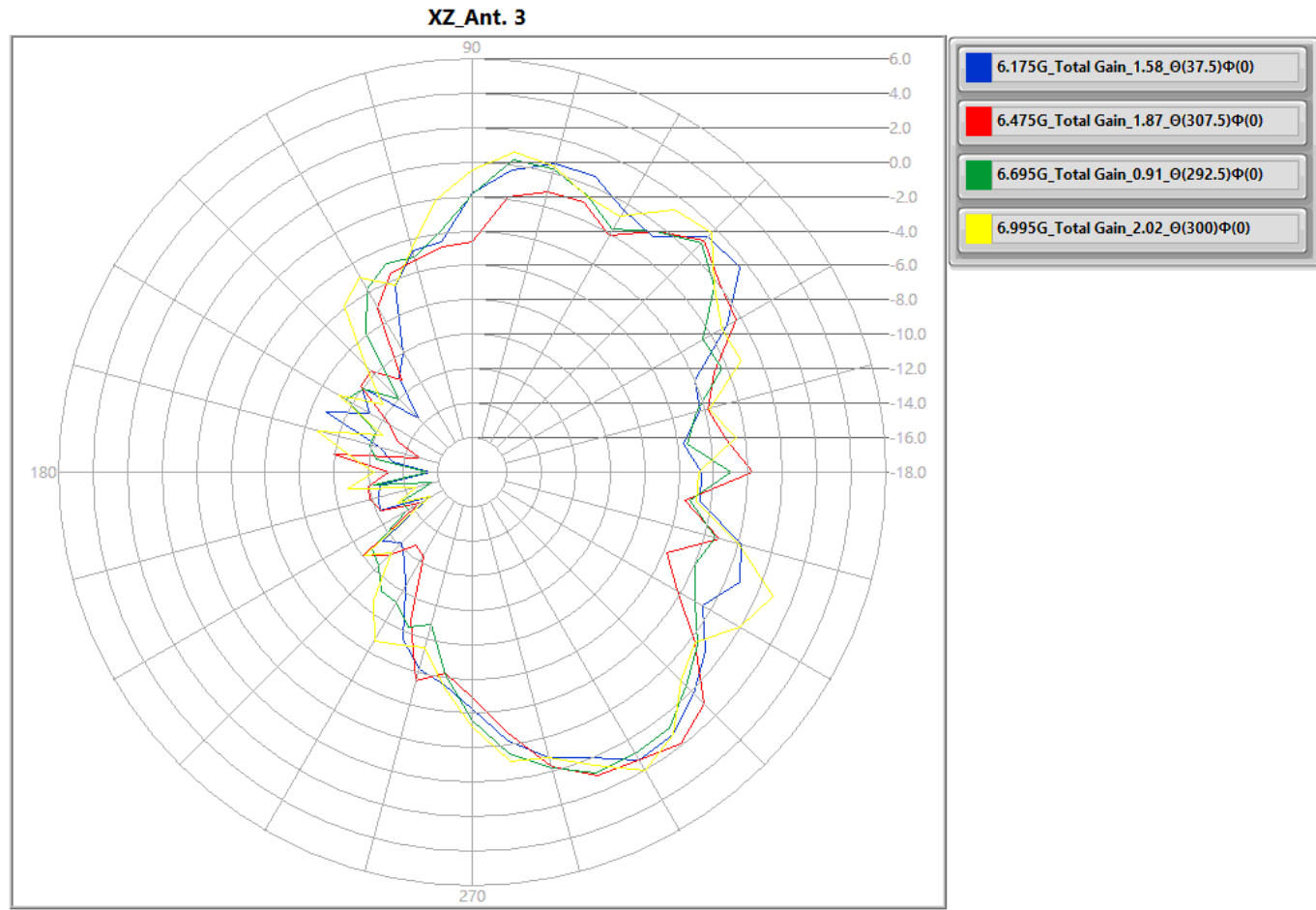
Antenna Pattern of 6GHz_6G Ant1~4

Appendix B.1

Θ(120°)	-9.30/-10.27	-8.50/-8.66	-9.03/-8.64	-6.42/-4.95	-5.88/-10.99	-8.80/-6.40	-7.95/-6.36	-10.55/-8.89	-8.91/-6.51	-9.69/-7.38	-9.23/-10.22	-12.15/-10.96	-6.05/-7.59	-11.35/-7.91	-7.89/-10.03	-8.45/-8.58	-5.30/-13.40	-9.49/-8.89	-15.14/-10.38	-8.42/-13.79	-9.19/-17.41	-9.34/-8.75	-5.46/-10.98	-8.08/-5.28
Θ(127.5°)	-7.96/-9.68	-10.10/-8.84	-7.16/-6.56	-8.29/-9.04	-9.76/-8.55	-8.37/-12.03	-7.43/-6.91	-9.57/-13.46	-12.25/-8.92	-8.89/-10.42	-10.81/-11.46	-11.68/-9.36	-9.52/-14.69	-8.64/-10.28	-9.82/-7.06	-5.26/-9.67	-6.09/-10.32	-9.00/-10.21	-12.02/-5.09	-8.54/-11.64	-10.38/-7.70	-6.80/-15.00	-8.30/-9.74	-8.97/-8.59
Θ(135°)	-8.88/-11.41	-11.69/-12.92	-10.03/-8.40	-7.22/-7.70	-11.25/-11.75	-8.90/-9.20	-10.50/-10.46	-11.90/-11.66	-11.20/-9.61	-7.57/-10.75	-8.74/-11.37	-8.85/-12.81	-15.46/-13.86	-8.29/-11.47	-15.75/-10.67	-8.76/-7.07	-12.09/-13.43	-15.81/-9.48	-11.51/-9.52	-13.48/-12.72	-13.16/-7.86	-5.65/-9.30	-15.03/-12.20	-9.26/-9.50
Θ(142.5°)	-9.08/-10.11	-12.42/-14.12	-15.61/-12.84	-9.24/-7.60	-7.03/-7.56	-8.38/-7.85	-8.95/-11.35	-10.51/-14.53	-15.58/-15.75	-14.91/-11.66	-8.07/-8.89	-8.57/-10.73	-15.31/-12.48	-11.81/-12.51	-11.33/-13.87	-15.07/-12.55	-11.90/-14.08	-14.94/-13.69	-13.36/-11.17	-11.29/-9.53	-14.32/-14.16	-11.90/-11.86	-12.06/-12.44	-9.85/-10.85
Θ(150°)	-11.44/-13.31	-15.12/-13.79	-10.04/-8.76	-8.95/-10.53	-10.99/-9.07	-9.80/-9.01	-6.11/-6.04	-10.70/-9.52	-8.05/-14.59	-10.62/-8.53	-9.83/-7.20	-7.34/-9.64	-12.40/-11.14	-9.42/-10.39	-10.76/-9.45	-11.09/-14.44	-12.15/-9.64	-11.96/-15.34	-11.37/-10.50	-12.67/-13.75	-12.84/-14.68	-14.26/-11.89	-10.87/-9.90	-10.05/-10.41
Θ(157.5°)	-14.03/-13.52	-12.67/-11.85	-12.35/-13.00	-12.40/-11.22	-10.42/-11.06	-13.05/-10.47	-9.22/-7.67	-6.77/-8.55	-15.38/-12.24	-7.98/-9.14	-9.84/-9.59	-9.93/-10.00	-11.21/-7.43	-5.27/-7.22	-13.25/-9.66	-7.27/-8.13	-9.60/-9.44	-8.90/-9.74	-12.11/-12.21	-12.16/-14.85	-14.13/-12.24	-13.07/-13.80	-13.72/-11.35	-10.99/-12.23
Θ(165°)	-15.28/-15.03	-14.86/-14.45	-12.95/-11.47	-11.84/-12.61	-13.40/-15.06	-15.89/-11.60	-9.80/-10.64	-13.54/-14.49	-13.61/-11.00	-9.94/-10.41	-11.36/-14.45	-15.28/-12.23	-9.76/-9.75	-11.63/-14.45	-15.38/-11.99	-10.49/-11.66	-13.38/-14.90	-14.84/-12.55	-11.11/-11.16	-12.33/-13.32	-13.71/-14.86	-14.24/-14.47	-14.80/-14.99	-15.22/-15.04
Θ(172.5°)	-14.68/-14.96	-13.78/-12.99	-15.00/-15.23	-15.41/-14.76	-15.81/-15.29	-15.18/-15.67	-14.43/-11.90	-11.15/-10.99	-11.30/-11.38	-11.68/-12.20	-12.61/-14.15	-14.51/-14.73	-14.46/-14.79	-15.10/-15.22	-15.41/-15.62	-15.22/-14.29	-14.71/-14.98	-14.49/-14.03	-12.85/-11.81	-10.90/-13.30	-10.74/-11.60	-12.98/-14.10	-14.16/-14.48	-14.07/-14.20
Θ(180°)	-13.31/-12.07	-11.67/-11.49	-12.36/-13.76	-15.17/-15.49	-14.98/-14.83	-13.94/-13.98	-13.61/-14.42	-14.87/-15.74	-14.62/-13.41	-12.10/-11.18	-10.32/-10.29	-11.85/-14.40	-15.76/-15.29	-15.37/-16.01	-15.40/-14.28	-15.24/-14.93	-15.49/-15.29	-15.16/-15.06	-14.81/-14.57	-14.85/-15.03	-15.47/-15.55	-15.45/-14.63	-14.77/-15.19	-14.72/-14.84
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°)	-12.24/-11.54	-12.40/-12.99	-11.69/-12.29	-13.94/-12.45	-10.90/-10.62	-10.97/-12.15	-13.68/-13.92	-13.84/-13.06	-12.31/-11.56	-10.77/-10.07	-9.24/-8.59	-7.59/-6.99	-6.94/-6.57	-6.15/-5.34	-4.92/-5.49	-5.95/-5.62	-5.47/-5.23	-5.57/-5.98	-6.35/-6.67	-7.28/-7.51	-7.82/-8.48	-9.43/-9.49	-9.61/-10.60	-11.90/-12.32
Θ(7.5°)	-4.90/-4.78	-4.68/-4.58	-4.55/-4.67	-4.47/-3.86	-3.80/-3.40	-2.58/-1.84	-1.74/-1.92	-2.32/-3.20	-4.24/-5.23	-5.85/-5.75	-5.77/-5.62	-5.11/-3.70	-2.47/-1.99	-2.26/-2.94	-3.57/-3.92	-4.97/-6.16	-6.98/-7.69	-8.65/-9.63	-11.72/-13.81	-14.70/-14.41	-13.04/-11.25	-9.46/-7.27	-5.67/-4.95	-5.18/-5.28
Θ(15°)	-4.16/-4.92	-5.28/-4.79	-5.15/-5.38	-4.23/-2.79	-2.52/-3.92	-5.26/-4.75	-4.19/-3.32	-2.01/-0.84	-0.35/-0.62	-1.36/-1.97	-1.96/-1.88	-2.41/-3.02	-2.84/-2.25	-2.12/-2.51	-2.09/-1.31	-0.56/-0.52	-1.27/-2.81	-4.58/-6.57	-8.96/-10.49	-8.77/-6.28	-4.66/-3.69	-3.00/-2.74	-2.41/-2.46	-2.85/-3.66
Θ(22.5°)	-3.39/-5.01	-4.68/-3.33	-2.16/-1.99	-2.53/-3.02	-2.15/-1.76	-2.08/-2.03	-1.53/-1.42	-1.54/-1.84	-1.16/-0.13	-0.17/-1.07	-0.91/-0.15	0.39/-0.45	-0.22/-0.52	0.18/-1.20	1.92/-8.3	1.68/-1.94	1.76/-0.71	-0.45/-1.29	-1.54/-1.79	-2.14/-3.03	-3.24/-2.96	-1.47/-1.50	0.85/-1.22	
Θ(30°)	-3.45/-2.55	-0.59/-0.09	0.02/-0.60	-0.93/-1.49	-2.04/-1.87	-0.70/-0.04	0.58/-0.95	1.27/-0.36	-0.68/-0.43	0.35/-0.02	-0.63/-0.47	1.66/-2.21	1.73/-1.88	1.93/-1.38	1.02/-1.09	1.04/-0.99	0.45/-0.52	-1.32/-1.97	-1.51/-0.48	1.73/-1.45	1.00/-0.88	1.05/-0.63	0.08/-0.29	-1.56/-2.75
Θ(37.5°)	-3.22/-1.86	0.97/-2.28	1.74/-0.68	0.12/-0.19	-1.50/-2.30	-1.82/-0.91	0.61/-1.41	1.45/-1.18	0.09/-0.19	1.10/-1.45	0.28/-1.28	2.05/-1.64	1.76/-2.56	2.53/-1.36	0.41/-0.30	0.16/-0.17	-0.32/-0.12	0.22/-0.47	-0.57/-0.87	2.25/-2.51	2.00/-1.31	1.55/-1.19	-0.22/-1.85	-1.47/-2.69
Θ(45°)	0.09/-0.47	1.71/-2.56	2.23/-1.66	1.76/-2.35	1.14/-1.47	-2.54/-2.34	-1.60/-0.70	-0.51/-0.91	-1.14/-1.73	0.23/-0.76	-0.85/-0.24	0.50/-0.64	-0.26/-0.80	1.65/-0.34	-2.76/-1.83	0.29/-1.16	2.25/-1.62	0.84/-1.08	1.00/-0.45	0.90/-1.33	1.42/-0.72	0.39/-0.55	-0.47/-1.50	0.85/-1.22
Θ(52.5°)	1.91/-1.49	1.64/-1.23	1.91/-2.33	2.10/-3.19	2.51/-0.13	-1.09/-0.33	0.17/-0.63	-0.00/-0.66	-0.40/-1.77	-1.11/-1.35	-2.90/-1.70	-1.82/-2.84	-2.81/-1.46	-0.94/-3.98	-4.12/-2.28	-2.03/-0.81	0.16/-0.10	-0.68/-1.05	-2.21/-4.11	-2.64/-0.41	0.25/-1.27	-0.87/-0.33	0.48/-0.42	2.61/-2.99
Θ(60°)	2.02/-2.22	2.36/-0.90	1.10/-1.91	2.96/-3.85	3.58/-1.95	0.58/-2.12	2.44/-1.00	1.17/-1.20	1.36/-1.14	-0.48/-1.10	0.33/-0.22	-1.49/-2.99	-4.65/-1.44	-0.12/-0.42	-2.07/-2.22	-1.85/-3.90	-3.32/-3.17	-1.96/-2.09	0.01/-1.58	-1.35/-0.97	1.57/-1.98	-0.74/-0.44	0.23/-0.70	3.18/-2.88
Θ(67.5°)	1.81/-1.83	1.91/-0.62	0.37/-1.47	2.79/-2.87	2.87/-1.69	1.98/-3.93	3.60/-0.01	2.61/-1.13	1.79/-1.65	0.97/-1.90	2.32/-0.30	-0.48/-2.41	-3.91/-0.23	0.08/-0.63	1.51/-2.04	-0.61/-1.80	-2.33/-1.80	1.21/-0.68	0.00/-1.59	1.88/-1.63	1.94/-1.34	-0.40/-0.96	1.80/-2.38	3.47/-2.50
Θ(75°)	1.10/-1.28	1.13/-0.21	-0.09/-0.80	1.21/-2.75	1.89/-1.30	2.34/-2.80	1.78/-1.70	3.44/-0.42	2.20/-1.20	0.51/-1.73	1.53/-0.08	-1.35/-4.97	-3.50/-0.89	-1.55/-1.21	1.28/-0.17	-0.17/-0.13	0.60/-1.26	2.66/-2.00	1.44/-3.26	3.32/-2.15	1.82/-2.57	0.07/-0.38	2.43/-2.49	2.78/-1.45
Θ(82.5°)	-0.31/-0.08	-0.66/-0.74	-0.08/-0.29	-0.51/-1.30	0.58/-1.58	-0.14/-0.06	0.01/-1.89	0.35/-0.67	1.20/-1.21	-1.25/-0.81	-2.34/-1.64	-4.13/-7.15	-6.82/-3.89	-2.49/-0.91	1.12/-2.03	-0.51/-0.46	1.12/-2.03	2.99/-1.69	1.96/-2.58	2.20/-1.29	0.90/-0.62	-0.16/-0.65	1.05/-0.50	1.99/-0.46
Θ(90°)	-2.60/-2.40	-2.20/-2.78	-1.60/-1.26	-1.85/-0.30	-0.88/-0.22	-1.83/-1.72	-1.11/-4.57	-1.46/-0.37	-0.96/-4.97	-4.81/-2.03	-2.61/-1.92	-5.94/-4.29	-8.65/-6.06	-4.38/-2.08	-3.17/-3.10	-1.39/-2.36	-1.29/-0.23	1.78/-0.60	-0.18/-0.29	0.18/-1.36	-1.75/-1.71	-0.11/-1.79	-0.36/-1.44	-0.37/-2.55
Θ(97.5°)	-4.45/-3.85	-4.22/-4.86	-2.62/-1.82	-3.94/-2.88	-3.00/-1.68	-3.51/-3.02	-3.96/-5.68	-2.96/-1.86	-2.98/-5.63	-5.88/-5.62	-3.60/-4.89	-5.43/-7.77	-10.21/-5.40	-5.51/-4.09	-5.06/-6.47	-5.18/-5.80	-5.80/-4.03	-0.86/-5.12	-4.04/-2.16	-1.99/-3.39	-4.57/-3.27	-1.30/-2.84	-2.25/-3.41	-2.50/-4.39
Θ(105°)	-6.05/-4.69	-4.46/-6.91	-5.26/-4.73	-3.13/-4.31	-5.21/-8.87	-5.48/-5.45	-2.56/-5.08	-3.04/-0.67	-4.58/-6.86	-6.06/-4.28	-4.03/-7.82	-6.22/-11.07	-7.31/-6.13	-10.19/-4.69	-6.05/-6.94	-7.13/-6.64	-7.54/-6.43	-2.24/-6.38	-4.64/-2.73	-1.43/-4.86	-5.81/-6.41	-2.94/-2.96	-3.79/-3.87	-4.39/-5.07
Θ(112.5°)	-7.75/-7.13	-6.86/-9.17	-7.27/-5.95	-4.50/-5.30	-7.40/-5.90	-5.25/-6.69	-7.52/-8.83	-7.92/-5.55	-7.69/-5.69	-6.39/-7.41	-9.70/-7.11	-14.33/-12.64	-9.61/-11.04	-12.15/-5.40	-6.90/-7.97	-8.87/-7.66	-7.49/-4.83	-6.32/-8.71	-5.30/-5.10	-5.70/-7.77	-6.75/-7.31	-0.67/-5.86	-5.62/-4.79	-5.98/-4.95
Θ(120°)	-7.82/-9.75	-12.09/-11.47	-8.98/-7.51	-7.68/-8.12	-6.72/-7.47	-6.58/-6.71	-3.57/-6.46	-7.27/-10.62	-5.90/-7.71	-6.16/-11.85	-6.83/-6.87	-14.00/-11.35	-12.29/-15.08	-12.06/-4.71	-9.17/-14.32	-8.31/-12.08	-10.42/-8.36	-9.57/-13.27	-13.17/-9.50	-7.00/-7.10	-7.77/-4.88	-10.31/-6.71	-5.00/-8.21	-7.95/-6.11
Θ(127.5°)	-9.86/-10.09	-10.77/-8.48	-11.39/-11.95	-8.96/-6.08	-7.54/-10.17	-8.79/-5.56	-8.92/-8.83	-9.29/-8.71	-11.30/-11.33	-9.09/-6.75	-7.35/-11.24	-8.15/-12.91	-15.27/-13.06	-8.56/-8.40	-9.33/-9.32	-5.93/-14.25	-6.76/-7.68	-10.07/-1.49	-9.07/-4.09	-7.76/-11.54	-8.59/-5.91	-8.36/-11.62	-6.24/-8.78	-12.09/-8.98
Θ(135°)	-9.03/-11.40	-12.48/-10.99	-9.70/-9.31	-9.65/-9.23	-7.20/-7.28	-11.56/-9.49	-8.32/-9.65	-10.30/-10.05	-13.33/-9.27	-10.32/-11.80	-6.52/-4.45	-9.25/-11.42	-8.27/-10.96	-11.15/-10.68	-11.35/-8.48	-8.67/-9.65	-11.57/-8.26	-12.46/-7.73	-8.58/-7.96	-15.67/-13.28	-10.67/-8.05	-7.84/-13.33	-11.19/-12.60	-11.63/-10.51
Θ(142.5°)	-12.11/-11.59	-10.42/-10.61	-11.47/-11.08	-9.43/-9.09	-10.54/-11.04	-8.46/-8.51	-10.50/-9.05	-13.32/-15.39	-12.87/-15.49	-11.09/-7.77	-7.93/-10.40	-11.04/-12.07	-14.49/-13.66	-11.97/-9.46	-9.10/-8.59	-14.78/-15.13	-11.80/-11.25	-13.90/-13.18	-13.56/-15.83	-13.49/-12.53	-13.66/-11.31	-10.64/-10.36	-9.98/-11.50	-14.00/-13.15
Θ(150°)	-11.63/-12.04	-13.71/-15.10	-14.58/-15.90	-12.57/-9.74	-8.94/-9.89	-9.16/-7.92	-8.42/-8.67	-6.59/-7.83	-14.53/-14.25	-12.08/-11.56	-8.55/-8.83	-10.43/-9.61	-7.45/-8.38	-7.35/-7.34	-10.41/-11.29	-12.44/-15.30	-11.07/-8.83	-10.10/-9.03	-8.55/-11.00	-13.66/-15.09	-14.29/-12.95	-15.45/-14.83	-13.95/-11.54	-10.68/-10.92
Θ(157.5°)	-12.07/-13.47	-13.74/-13.97	-15.35/-15.13	-14.57/-14.09	-11.12/-10.01	-11.87/-13.44	-8.44/-6.17	-8.29/-14.49	-8.75/-7.02	-8.31/-12.12	-14.23/-10.24	-10.53/-11.20	-11.30/-10.01	-7.97/-11.79	-15.46/-12.86	-10.36/-11.95	-9.57/-7.55	-8.31/-11.55	-14.58/-12.16	-12.39/-12.75	-13.82/-14.48	-14.54/-15.90	-13.71/-14.40	-14.84/-12.71
Θ(165°)	-15.17/-15.71	-14.92/-14.88	-14.80/-15.77	-13.88/-12.74	-13.14/-13.35	-12.73/-12.61	-13.39/-13.39	-13.22/-12.22	-11.70/-11.95	-13.50/-15.44	-13.62/-11.45	-12.92/-15.35	-15.34/-13.03	-12.96/-11.49	-9.27/-7									

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

[illegible]



Antenna Pattern of Scan Radio SC Ant1~2

Appendix B.2

Θ(30°)	-1.35/-1.29	-1.58/-0.78	0.29/0.51	1.15/1.13	0.77/0.84	0.96/2.00	2.82/2.40	0.67/0.21	1.36/0.77	-0.77/-0.97	-1.25/-2.18	-2.23/-3.30	-5.13/-5.67	-5.99/-11.13	-8.42/-4.69	-3.01/-1.94	-1.62/-0.36	-0.09/0.46	1.16/0.79	1.94/3.86	3.51/2.17	1.76/2.02	0.82/-0.20	-1.06/-1.54
Θ(37.5°)	-2.43/-2.53	-0.83/-0.23	-0.26/-0.20	-0.46/-0.84	0.41/1.31	1.27/1.21	1.93/2.34	0.24/0.30	-0.06/-0.14	0.13/-0.47	-1.66/-1.84	-1.80/-2.28	-1.79/-2.57	-3.99/-6.61	-8.02/-7.14	-1.48/-3.53	-2.10/-0.57	0.04/-0.37	0.31/1.85	2.49/2.95	2.80/1.08	1.53/1.31	-0.09/-0.57	-1.23/-1.97
Θ(45°)	-4.22/-3.28	-2.69/-2.89	-2.32/-0.77	-0.57/-1.77	-2.28/-2.09	-0.14/-1.61	2.35/1.90	0.20/-0.19	-0.53/-0.85	-0.33/0.02	-1.27/-3.03	-1.79/-1.43	-0.45/-1.45	-4.93/-8.76	-6.88/-3.81	-1.00/-0.15	0.83/1.18	2.06/4.45	-0.65/-1.29	2.17/2.94	1.07/0.17	-0.10/0.04	0.24/-1.39	-0.71/-1.96
Θ(52.5°)	-3.55/-4.29	-6.65/-4.12	-1.03/-0.62	-0.16/0.27	-0.51/-0.51	-0.61/0.85	1.06/1.43	0.78/-1.21	-1.80/-0.21	0.62/-1.17	-1.15/-1.63	-1.14/-0.61	-0.19/-0.52	-2.35/-2.01	-3.25/-4.42	-2.56/-1.72	-1.26/0.14	0.89/0.89	0.98/1.42	1.70/2.28	0.76/-0.99	-2.51/-0.99	0.53/-1.25	-6.02/-5.80
Θ(60°)	-6.10/-6.23	-6.77/-4.30	-1.69/-1.12	-1.27/0.07	-0.07/0.05	-0.31/0.47	0.76/0.51	0.45/-3.79	-1.83/-1.38	-0.96/-1.99	-1.83/-2.21	0.06/-0.37	0.22/-0.64	-0.26/-0.02	-1.35/-2.90	-3.68/-3.17	-5.34/-4.41	-3.42/-2.67	-0.35/-0.67	-0.48/-1.45	-1.99/-4.86	-5.22/-2.05	-1.89/-5.81	-6.54/-8.45
Θ(67.5°)	-7.82/-5.41	-9.31/-8.19	-3.77/-1.95	-0.91/-0.54	-0.49/-0.66	-1.20/-2.12	-0.62/-1.54	0.48/-2.51	-4.09/-1.60	-1.63/-1.34	0.39/0.56	-1.63/-1.34	0.39/0.56	-1.43/-0.38	-2.03/-1.48	-1.91/-1.42	-2.60/-3.99	-0.47/-1.62	-1.87/-2.84	-4.51/-5.48	-5.29/-3.13	-5.14/-3.79	-3.17/-7.26	
Θ(75°)	-4.53/-7.22	-11.33/-5.87	-3.97/-2.94	-2.42/-1.67	-1.84/-1.73	-1.04/-3.81	-1.72/-1.53	-0.56/-1.69	-6.82/-3.00	-1.36/-7.34	-1.91/-2.63	-0.28/-0.07	-2.75/-3.67	-1.65/-0.71	-0.12/-0.49	-1.38/-0.61	0.21/-0.86	0.05/-0.24	0.34/-1.99	-3.71/-4.38	-5.67/-10.44	-4.06/-4.60	-4.15/-2.19	-3.35/-7.31
Θ(82.5°)	-3.89/-10.52	-7.75/-5.38	-4.84/-3.74	-4.34/-3.02	-2.36/-3.37	-2.18/-3.82	-2.03/-2.75	-1.41/-2.75	-5.97/-4.72	-2.91/-7.69	-2.45/-4.16	-1.91/-1.62	-6.66/-6.18	-2.45/-1.84	-0.38/-1.61	-3.99/-1.24	0.44/-1.78	-0.43/-2.16	-1.01/-4.51	-6.06/-5.77	-5.63/-10.37	-3.08/-7.52	-2.88/-1.29	-5.03/-5.67
Θ(90°)	-4.95/-7.79	-7.10/-6.91	-8.17/-6.43	-5.25/-3.96	-3.15/-3.10	-3.09/-5.09	-3.88/-3.90	-2.72/-3.62	-5.40/-5.53	-3.05/-7.89	-4.42/-6.78	-2.96/-2.95	-6.11/-9.86	-5.06/-3.56	-1.46/-2.92	-4.20/-3.10	-1.74/-2.82	-3.25/-3.97	-3.90/-6.99	-6.91/-6.26	-7.81/-8.18	-4.89/-7.60	-2.64/-2.57	-5.45/-5.60
Θ(97.5°)	-6.47/-9.11	-8.97/-9.61	-8.61/-6.74	-6.75/-4.84	-3.83/-4.19	-4.13/-5.70	-5.49/-4.90	-4.40/-5.70	-5.18/-7.55	-3.15/-9.52	-6.06/-8.17	-4.10/-3.97	-7.01/-9.74	-8.10/-6.40	-5.08/-6.89	-7.31/-6.45	-5.02/-6.51	-8.70/-8.24	-10.35/-12.06	-10.12/-8.70	-6.63/-5.87	-5.46/-7.69	-3.06/-4.32	-5.33/-4.14
Θ(105°)	-7.04/-7.91	-10.67/-9.17	-8.76/-8.29	-10.40/-8.31	-6.64/-6.20	-5.09/-3.83	-6.33/-6.75	-7.17/-5.26	-5.61/-7.91	-4.43/-8.16	-6.52/-12.54	-8.96/-4.10	-5.54/-8.67	-15.02/-14.47	-7.30/-7.37	-7.57/-9.03	-10.59/-8.41	-8.15/-9.62	-11.52/-9.24	-8.37/-7.35	-6.92/-7.91	-5.77/-8.08	-4.62/-4.98	-4.68/-5.01
Θ(112.5°)	-8.87/-8.09	-7.87/-11.68	-13.66/-11.27	-9.82/-11.23	-9.01/-6.38	-4.72/-5.06	-7.60/-5.63	-5.49/-6.17	-4.71/-7.27	-6.80/-6.11	-8.77/-11.19	-11.23/-9.64	-9.71/-10.32	-11.03/-8.78	-7.44/-6.53	-9.62/-11.76	-11.89/-11.65	-13.73/-4.68	-7.90/-6.75	-10.40/-7.14	-4.97/-5.39	-6.26/-6.71	-5.00/-6.55	-5.12/-4.01
Θ(120°)	-10.19/-6.66	-8.23/-13.82	-15.57/-14.72	-9.17/-7.47	-8.33/-7.58	-5.31/-4.39	-5.90/-5.01	-6.06/-7.04	-7.97/-4.78	-13.71/-6.83	-7.68/-14.09	-11.26/-10.74	-7.31/-9.40	-10.43/-7.80	-8.91/-9.08	-14.81/-10.56	-7.07/-11.78	-8.50/-7.12	-10.17/-10.74	-12.50/-8.13	-5.09/-8.66	-8.88/-6.14	-8.02/-8.00	-5.21/-7.84
Θ(127.5°)	-9.64/-11.04	-9.91/-12.15	-13.23/-16.20	-12.00/-11.02	-13.20/-8.95	-6.59/-5.32	-6.41/-7.75	-7.24/-5.10	-8.59/-9.99	-10.88/-12.42	-13.46/-12.63	-12.01/-12.49	-14.00/-15.86	-11.85/-9.69	-9.49/-8.73	-10.71/-15.10	-7.46/-6.06	-9.56/-9.11	-12.26/-7.83	-10.94/-10.25	-7.83/-6.23	-10.26/-7.84	-6.69/-9.36	
Θ(135°)	-10.93/-8.21	-9.12/-12.85	-16.16/-15.35	-14.75/-15.07	-14.76/-11.31	-12.80/-12.33	-6.67/-6.01	-10.78/-6.99	-5.43/-10.34	-13.08/-9.98	-9.36/-11.07	-9.74/-8.60	-10.39/-14.60	-10.71/-10.92	-12.78/-14.61	-12.67/-10.14	-13.45/-13.38	-12.51/-12.74	-8.17/-7.79	-8.82/-12.29	-12.03/-8.90	-10.59/-6.67	-9.91/-8.62	-6.79/-8.56
Θ(142.5°)	-10.45/-7.55	-5.23/-6.14	-8.04/-9.91	-13.96/-15.00	-13.35/-12.21	-11.57/-10.05	-9.84/-8.18	-6.93/-10.78	-10.77/-6.10	-6.56/-8.90	-8.41/-6.91	-8.78/-8.94	-7.30/-9.49	-9.06/-10.11	-15.06/-13.20	-9.67/-9.36	-14.35/-14.53	-8.79/-8.39	-11.99/-8.78	-8.34/-8.18	-13.28/-8.58	-9.56/-7.72	-7.86/-9.11	-8.32/-7.35
Θ(150°)	-8.81/-8.15	-7.08/-6.88	-7.32/-8.11	-10.03/-12.40	-11.65/-10.18	-8.48/-6.88	-8.00/-9.77	-7.21/-6.61	-13.36/-12.49	-7.21/-7.37	-9.36/-7.63	-9.07/-12.98	-13.69/-11.82	-10.85/-14.08	-11.68/-15.78	-13.74/-15.36	-15.02/-10.76	-10.24/-10.11	-9.52/-7.73	-8.12/-8.27	-8.65/-7.41	-7.34/-7.94	-7.21/-7.57	-7.67/-7.96
Θ(157.5°)	-7.01/-7.07	-8.93/-9.12	-8.77/-9.76	-10.59/-11.60	-13.23/-11.05	-12.29/-13.32	-10.76/-9.34	-9.38/-15.44	-14.34/-11.62	-12.68/-8.85	-6.93/-10.36	-11.83/-12.91	-14.92/-14.79	-15.64/-13.36	-11.83/-12.91	-14.92/-14.79	-15.64/-13.36	-11.83/-12.91	-14.92/-14.79	-15.64/-13.36	-11.83/-12.91	-14.92/-14.79	-15.64/-13.36	-11.83/-12.91
Θ(165°)	-9.05/-9.72	-9.89/-9.70	-10.38/-10.47	-9.92/-12.12	-11.54/-13.35	-13.82/-12.73	-13.74/-14.86	-12.88/-10.91	-10.10/-11.04	-13.88/-13.76	-12.82/-12.12	-10.50/-9.88	-9.80/-9.70	-9.85/-9.61	-9.85/-11.44	-10.96/-11.29	-11.03/-11.37	-12.05/-10.48	-10.40/-8.10	-6.12/-6.31	-6.56/-5.65	-5.21/-5.78	-6.73/-8.12	-9.47/-9.71
Θ(172.5°)	-8.30/-8.99	-9.38/-8.99	-9.32/-9.16	-10.47/-9.23	-9.17/-10.38	-9.74/-10.64	-8.71/-7.13	-7.10/-7.51	-9.28/-12.25	-13.40/-14.52	-15.40/-14.46	-13.41/-13.53	-15.71/-13.92	-11.02/-9.42	-8.02/-7.69	-7.22/-6.73	-7.06/-7.38	-7.27/-7.18	-6.78/-6.11	-5.76/-4.74	-4.23/-4.69	-5.29/-4.54	-5.82/-6.49	-6.34/-7.09
Θ(180°)	-8.05/-8.23	-8.34/-8.71	-9.15/-9.79	-9.63/-9.65	-10.79/-9.77	-8.13/-7.06	-6.69/-7.13	-8.96/-11.64	-12.78/-11.65	-10.71/-9.97	-8.43/-7.63	-8.57/-8.59	-7.40/-6.62	-6.82/-6.62	-7.81/-8.16	-7.96/-8.40	-8.41/-8.46	-8.04/-8.50	-8.09/-7.74	-7.36/-7.50	-7.49/-7.68	-8.88/-8.69	-8.48/-8.79	-8.26/-7.85
Freq(Hz)	6.1750GPdL	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°)	1.80/2.04	2.07/1.85	1.96/1.80	1.87/1.47	1.87/1.47	1.55/2.04	1.60/1.93	1.48/1.39	1.55/1.51	1.37/1.12	1.21/1.03	1.17/1.02	0.86/1.10	0.85/0.70	1.01/1.06	1.57/1.12	1.68/1.47	1.92/1.98	2.26/2.41	2.03/1.93	1.85/2.26	2.27/2.37	2.18/1.84	
Θ(7.5°)	1.83/2.17	1.88/1.60	1.78/1.54	1.35/1.96	2.24/2.44	2.22/2.18	2.35/1.95	1.56/0.88	0.52/0.90	0.69/0.12	-0.06/-0.76	-1.19/-1.76	-2.40/-2.20	-1.42/-1.32	-1.46/-1.37	-1.81/-1.94	-2.25/-1.60	-1.14/-0.66	0.44/1.37	1.42/2.09	2.17/2.14	2.27/2.47	2.26/2.08	1.64/1.65
Θ(15°)	1.02/0.28	-0.31/-0.72	-0.08/0.96	1.82/1.99	2.28/2.67	2.69/3.09	2.46/1.89	0.30/-0.41	0.63/0.00	0.49/0.77	-1.20/-1.77	-2.21/-2.92	-2.69/-1.93	-1.13/-1.22	-3.36/-3.08	-3.36/-3.07	-2.73/-4.34	-4.44/-4.92	-3.12/0.39	1.62/1.67	1.44/1.16	1.31/1.85	2.18/2.13	1.58/1.34
Θ(22.5°)	-0.61/-1.08	-0.78/0.31	1.09/0.77	1.00/1.11	0.60/0.39	-0.63/0.63	1.88/2.30	0.92/-1.21	0.25/0.71	-1.17/-2.81	-1.73/-1.53	-2.24/-2.51	-1.66/-1.67	-3.02/-2.56	-3.21/-3.85	-4.89/-5.97	-3.62/-1.50	0.36/0.59	0.82/2.07	3.46/3.60	1.49/0.22	1.78/2.05	1.44/1.07	0.19/-0.18
Θ(30°)	-0.13/-0.34	-0.37/0.24	0.53/0.33	0.14/-0.30	-0.02/1.37	1.51/0.97	1.49/1.46	0.73/-0.07	0.30/-1.60	-2.61/-1.51	-2.00/-2.35	-2.21/-5.50	-1.68/-4.30	-3.39/-3.76	-4.22/-6.03	-5.04/-2.12	-1.39/-1.07	-1.09/0.52	1.29/1.20	3.74/3.94	1.65/1.34	1.98/0.71	0.18/0.40	0.77/0.78
Θ(37.5°)	-2.73/-2.71	-2.05/-1.26	-0.29/0.47	0.55/-0.22	-1.20/-3.74	-3.77/-1.46	1.18/2.33	1.03/0.71	-1.54/-1.50	-1.00/-2.45	-2.31/-1.35	-2.08/-1.25	-1.98/-2.33	-2.44/-4.02	-8.10/-9.08	-7.15/-2.92	-1.25/0.01	-0.60/0.51	1.97/1.75	3.31/2.94	0.93/0.35	1.15/0.28	0.42/-0.72	-1.41/-1.13
Θ(45°)	-2.17/-2.98	-2.22/-1.02	0.08/0.08	0.23/0.61	0.97/-0.20	-1.47/-0.80	-0.19/-0.05	1.76/-0.35	-3.23/-1.28	-0.94/-2.37	-1.70/-2.23	-3.24/-1.09	-2.22/-1.03	-0.11/-2.53	-6.38/-4.41	-1.50/0.03	1.05/1.55	1.95/1.72	2.05/0.05	2.83/2.74	-0.65/-0.27	-0.94/0.60	-1.61/-4.33	-2.97/-2.01
Θ(52.5°)	-4.25/-5.57	-5.81/-3.47	-1.64/-1.10	-1.51/-0.43	-0.48/-0.48	-1.53/-2.84	0.43/1.75	1.26/0.71	-2.74/-2.81	-0.77/-3.69	-0.55/-3.45	-3.97/-1.87	-1.00/0.74	0.25/-1.48	-4.91/-5.21	-1.16/-1.30	2.07/2.41	1.12/1.74	0.85/2.36	2.14/1.26	-2.19/-2.70	-0.33/-0.69	-5.18/-2.73	-6.27/-2.38
Θ(60°)	-4.91/-6.28	-4.90/-2.34	-2.61/-2.74	-2.75/-2.36	-2.05/-2.48	-1.34/-2.78	-0.45/-1.93	0.68/1.21	-1.08/-2.74	-1.47/-4.21	-2.07/-5.91	-2.11/0.46	0.21/0.15	0.93/2.54	0.85/-2.21	-2.25/-1.92	-3.16/-1.13	-1.99/-1.35	-1.38/-1.40	-0.45/-1.28	-2.96/-3.81	-1.72/-5.38	-2.85/-3.02	-5.53/-2.54
Θ(67.5°)	-5.59/-3.21	-2.41/-2.97	-2.39/-3.10	-4.44/-3.82	-3.30/-3.89	-2.10/-1.66	0.02/0.40	0.06/-2.48	-3.03/-3.83	-3.83/-4.09	-1.18/0.66	0.11/0.31	1.65/3.09	1.43/-0.79	-2.33/-0.35	-1.12/-0.04	-0.24/-0.84	-0.63/-0.85	-1.99/-2.58	-3.55/-5.33	-3.47/-5.77	-1.26/-4.63	-3.51/-2.44	
Θ(75°)	-3.62/-2.97	-3.26/-3.32	-2.34/-2.52	-4.11/-4.45	-3.78/-4.74	-4.71/-1.72	-1.85/0.78	-0.51/0.93	-0.87/-2.04	-3.81/-3.65	-3.56/-4.78	-2.75/0.10	-1.70/-0.73	0.69/1.66	-0.60/-1.06	-2.16/0.67	1.22/1.05	0.67/0.59	-0.74/-0.40	-4.27/-3.15	-8.75/-5.50	-3.59/-4.97	-2.44/-6.84	-3.50/-2.44
Θ(82.5°)	-2.47/-2.20	-4.51/-3.72	-2.03/-2.73	-3.80/-3.63	-4.21/-3.34	-4.62/-2.53	-1.94/0.77	-0.14/0.12	-1.71/-2.23	-3.22/-3.31	-5.14/-3.63	-3.58/-1.65	-3.08/-2.38	-1.16/0										



Antenna Pattern of Scan Radio SC Ant1~2

Appendix B.2

Θ(82°)	-3.27/-3.38	-4.96/-4.15	-4.53/-2.68	-1.37/-0.42	-0.99/-3.15	-5.43/-2.60	-1.97/-0.36	-0.95/-0.39	-0.51/-1.84	-4.86/-2.06	-4.04/-5.77	-10.98/-3.89	-8.38/-4.44	1.66/-3.73	1.41/-2.80	-4.23/-5.17	-2.31/-0.26	-2.19/-0.90	1.40/-3.19	-6.23/-5.17	-4.93/-5.02	-7.78/-4.08	-2.97/-2.63	-0.73/-2.27
Θ(90°)	-3.15/-3.78	-4.70/-3.09	-6.18/-4.33	-3.88/-0.97	-1.81/-4.09	-6.41/-2.95	-3.51/-1.72	-0.56/-1.85	-0.76/-2.43	-5.33/-2.27	-3.10/-4.60	-9.53/-5.07	-7.33/-6.21	-0.44/-1.73	-1.31/-5.34	-8.19/-8.86	-4.87/-1.44	-5.72/-3.89	-0.02/-6.52	-7.33/-8.04	-4.93/-6.20	-8.33/-4.15	-3.82/-2.90	-2.26/-3.57
Θ(97.5°)	-3.35/-4.05	-4.17/-2.91	-6.91/-6.87	-5.07/-3.82	-2.68/-5.57	-4.58/-2.14	-4.02/-3.06	-1.23/-2.96	-0.86/-3.87	-3.49/-3.29	-2.26/-3.84	-7.05/-8.25	-8.74/-8.37	-5.18/-2.02	-1.62/-3.83	-14.83/-14.72	-10.01/-7.98	-11.68/-9.27	-4.98/-8.57	-11.49/-7.62	-3.52/-7.99	-8.34/-6.00	-3.69/-4.44	-2.30/-3.39
Θ(105°)	-5.17/-5.13	-5.09/-4.81	-4.66/-6.96	-7.76/-5.32	-6.02/-4.87	-5.27/-5.41	-6.58/-6.77	-4.18/-5.32	-1.86/-4.56	-3.63/-4.03	-2.91/-4.85	-5.03/-6.92	-12.87/-8.69	-9.09/-4.40	-2.68/-3.15	-10.41/-14.94	-8.73/-9.39	-10.82/-13.42	-6.55/-11.45	-12.72/-7.86	-4.02/-10.85	-10.24/-7.88	-3.86/-4.59	-3.38/-5.21
Θ(112.5°)	-7.95/-6.96	-5.18/-6.08	-5.99/-6.00	-6.75/-8.10	-6.68/-6.53	-4.58/-6.41	-5.38/-6.86	-4.11/-6.84	-3.89/-4.74	-4.52/-5.00	-5.12/-5.58	-6.54/-3.76	-7.92/-6.47	-5.98/-4.72	-5.85/-8.00	-13.68/-14.13	-12.56/-11.16	-8.07/-6.86	-6.07/-14.72	-12.20/-7.59	-7.05/-9.35	-6.41/-10.42	-5.18/-5.55	-4.51/-4.72
Θ(120°)	-7.42/-8.36	-8.25/-6.00	-7.27/-7.19	-6.59/-6.10	-7.35/-10.05	-12.60/-1.84	-4.57/-7.96	-5.94/-5.10	-4.31/-5.04	-5.56/-6.32	-9.73/-4.45	-5.79/-7.59	-5.44/-6.48	-9.84/-10.51	-7.65/-9.00	-11.06/-12.76	-12.23/-15.27	-14.48/-9.73	-7.20/-15.42	-11.53/-5.84	-12.77/-11.21	-5.74/-7.40	-5.71/-6.84	-5.05/-5.38
Θ(127.5°)	-6.66/-9.14	-6.33/-5.16	-6.65/-8.44	-7.95/-7.37	-9.08/-12.12	-10.82/-10.66	-8.89/-8.43	-8.03/-5.63	-7.40/-5.11	-6.84/-7.80	-7.94/-9.08	-6.97/-11.32	-15.04/-10.99	-13.13/-7.26	-8.33/-10.18	-10.15/-8.62	-10.17/-10.89	-12.09/-13.10	-12.49/-10.70	-11.48/-9.28	-10.59/-8.39	-7.90/-8.16	-7.18/-6.60	-8.72/-7.49
Θ(135°)	-8.38/-8.92	-8.37/-8.51	-9.15/-10.00	-12.68/-15.05	-13.85/-12.79	-11.25/-11.00	-7.70/-11.63	-11.41/-9.31	-9.41/-9.47	-7.30/-7.67	-8.33/-14.10	-12.19/-12.35	-10.06/-11.16	-10.92/-13.77	-11.47/-15.10	-15.33/-11.14	-10.25/-12.78	-14.63/-11.75	-13.36/-13.80	-11.30/-10.31	-13.95/-8.68	-6.38/-10.49	-11.68/-6.82	-9.41/-12.55
Θ(142.5°)	-9.49/-12.10	-10.50/-6.82	-9.08/-13.94	-13.44/-12.22	-10.63/-9.81	-8.84/-9.96	-13.35/-15.97	-15.50/-10.14	-6.93/-11.44	-11.36/-9.42	-10.03/-14.38	-11.42/-12.51	-11.76/-15.18	-13.49/-11.78	-11.62/-13.08	-11.58/-12.35	-15.73/-10.18	-10.75/-9.94	-9.07/-15.50	-15.91/-13.78	-10.56/-9.88	-14.41/-9.77	-11.64/-13.08	-12.87/-12.68
Θ(150°)	-14.83/-15.88	-15.14/-12.67	-13.44/-15.51	-15.48/-15.40	-14.41/-14.05	-14.59/-11.72	-11.12/-9.45	-7.76/-10.92	-14.95/-13.27	-13.56/-11.84	-7.89/-8.12	-10.61/-11.43	-11.08/-12.94	-12.90/-12.93	-15.15/-15.53	-15.82/-11.93	-10.00/-12.54	-15.81/-13.45	-12.92/-10.20	-11.04/-13.44	-13.28/-12.08	-14.14/-12.74	-14.14/-15.13	-15.31/-15.73
Θ(157.5°)	-13.98/-14.03	-15.05/-15.82	-13.72/-12.64	-13.12/-15.76	-13.92/-14.71	-14.58/-14.94	-11.06/-9.41	-8.18/-10.07	-10.20/-11.15	-11.95/-9.78	-7.66/-7.96	-11.14/-10.17	-10.75/-13.02	-11.91/-13.33	-12.01/-14.75	-15.56/-15.20	-14.87/-14.93	-14.23/-15.71	-14.46/-15.08	-12.25/-10.46	-15.08/-15.08	-15.29/-13.78	-12.26/-12.77	-15.37/-15.95
Θ(165°)	-11.94/-12.26	-11.54/-12.28	-13.44/-13.15	-15.28/-15.31	-15.00/-15.37	-15.50/-13.08	-12.61/-9.02	-9.25/-8.66	-1.31/-11.58	-1.85/-9.31	-8.06/-9.95	-13.27/-12.06	-1.10/-10.94	-11.79/-10.94	-10.52/-9.70	-11.00/-10.87	-13.54/-14.33	-13.89/-10.33	-8.45/-8.08	-8.64/-10.21	-14.02/-14.95	-15.53/-14.83	-14.02/-13.26	-14.09/-12.85
Θ(172.5°)	-8.86/-10.50	-10.88/-10.48	-10.84/-11.06	-10.94/-11.17	-10.13/-9.61	-8.37/-9.23	-9.74/-10.44	-11.55/-13.41	-13.67/-13.78	-13.34/-13.31	-13.03/-14.32	-15.32/-15.07	-15.79/-15.10	-13.74/-13.98	-11.68/-14.49	-12.97/-12.63	-14.60/-14.10	-14.72/-14.49	-14.29/-13.15	-11.96/-11.52	-10.81/-9.91	-9.21/-10.19	-10.33/-9.40	-8.93/-9.29
Θ(180°)	-16.02/-14.70	-14.92/-15.69	-15.32/-15.30	-14.25/-13.37	-14.12/-13.35	-13.64/-14.73	-13.10/-12.29	-11.42/-13.70	-12.91/-12.92	-13.33/-13.21	-13.14/-12.26	-11.26/-10.20	-9.38/-9.84	-9.02/-8.88	-11.52/-11.90	-11.64/-11.51	-11.43/-10.69	-10.26/-10.97	-9.43/-9.99	-11.13/-11.19	-10.95/-11.00	-12.64/-13.46	-13.66/-13.84	-14.77/-16.05
Freq(Hz)	2450/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°)	-1.03/-0.94	-0.86/-0.70	-0.66/-0.61	-0.63/-0.55	-0.40/-0.27	-0.21/-0.10	-0.24/-0.19	-0.21/-0.33	-0.60/-0.91	-1.17/-1.29	-1.23/-0.94	-0.65/-0.49	-0.48/-0.53	-0.72/-1.02	-1.40/-1.74	-1.88/-1.85	-1.77/-1.71	-1.73/-1.83	-1.87/-1.86	-1.69/-1.51	-1.41/-1.33	-1.33/-1.41	-1.50/-1.46	-1.30/-1.04
Θ(7.5°)	-2.20/-2.11	-1.92/-1.55	-1.27/-1.01	-0.63/-0.20	0.26/0.64	0.91/1.05	1.71/1.25	1.22/1.03	0.60/0.16	-0.34/-0.71	-0.90/-0.93	-0.95/-1.12	-1.40/-1.74	-2.04/-2.33	-2.50/-2.56	-2.34/-2.01	-1.65/-1.39	-1.22/-1.23	-1.96/-2.07	-1.67/-1.82	-2.22/-2.60	-2.73/-2.97	-2.61/-2.41	-
Θ(15°)	-4.21/-4.08	-3.79/-3.35	-2.88/-2.25	-1.46/-0.59	0.20/0.86	1.35/1.65	1.85/1.96	1.93/1.76	1.39/0.84	0.18/-0.41	-0.92/-1.44	-2.06/-2.66	-3.37/-3.94	-4.15/-4.01	-3.57/-2.88	-2.07/-1.21	-0.48/0.07	0.43/0.54	0.44/0.09	-0.46/-1.16	-1.88/-2.58	-3.13/-3.59	-3.98/-4.19	-4.25/-4.20
Θ(22.5°)	-5.70/-5.64	-5.55/-5.07	-4.28/-3.24	-2.04/-0.76	0.33/1.21	1.79/2.10	2.24/2.27	2.21/2.09	1.85/1.43	0.85/0.23	-0.49/-1.34	-2.31/-3.25	-4.06/-4.51	-4.49/-4.11	-3.44/-2.53	-1.48/-0.46	0.41/1.02	1.41/1.61	1.55/1.23	0.57/-0.40	-1.50/-2.43	-3.07/-3.47	-3.90/-4.47	-5.10/-5.37
Θ(30°)	-4.92/-4.82	-4.42/-4.23	-3.90/-3.07	-1.01/-0.38	0.82/1.73	2.22/2.35	2.30/2.39	2.43/2.24	1.82/1.22	0.53/-0.24	-1.10/-1.98	-2.52/-2.68	-2.52/-2.21	-1.30/-1.04	-0.69/-0.03	0.65/1.21	1.71/2.08	2.27/2.12	1.64/0.85	-0.00/-0.64	-0.88/-0.99	-1.20/-1.81	-3.00/-4.27	-
Θ(37.5°)	-2.93/-2.79	-2.36/-2.24	-2.52/-2.20	-0.91/0.59	1.62/2.17	2.27/1.96	1.66/1.66	1.96/2.38	2.82/2.93	2.55/1.85	1.06/0.34	-0.45/-1.18	-1.44/-1.34	-0.82/-0.36	-0.15/-0.05	0.04/0.15	0.46/0.97	1.64/2.22	2.55/2.52	2.24/1.82	1.47/1.29	1.44/1.56	1.48/0.86	-0.42/-1.94
Θ(45°)	-1.42/-1.41	-0.85/-0.85	-1.47/-1.55	-0.20/-0.33	2.05/2.15	1.78/1.09	0.68/0.73	1.21/1.94	2.78/3.23	2.96/2.07	0.94/0.00	-0.83/-1.46	-1.49/-0.92	0.07/0.78	0.98/0.87	0.54/0.09	0.01/0.49	1.28/1.86	2.11/2.19	2.24/2.26	2.20/2.21	2.50/2.80	2.87/2.43	1.27/-3.02
Θ(52.5°)	-0.53/-0.89	-0.44/-0.34	-1.06/-1.18	0.22/1.49	1.93/1.87	1.42/0.69	0.13/0.04	0.52/1.49	2.56/1.15	2.96/1.81	0.22/-1.05	-1.83/-1.96	-1.35/-0.25	0.89/1.58	1.74/1.42	0.70/-0.15	-0.48/0.06	0.85/1.34	1.69/2.21	2.71/2.86	2.56/2.88	3.00/2.74	1.88/0.58	-
Θ(60°)	-0.26/-0.96	-0.79/-0.70	-1.17/-0.92	0.36/1.37	1.80/1.98	1.66/0.82	-0.10/-0.64	-0.42/0.45	1.54/2.27	2.29/1.34	-0.36/-1.86	-2.69/-2.56	-1.87/-0.82	0.40/1.27	1.49/1.04	0.01/-1.17	-1.50/-0.64	0.37/1.06	1.79/2.60	3.11/3.11	2.59/1.84	1.65/2.06	2.28/2.14	1.56/0.65
Θ(67.5°)	-0.56/-1.39	-1.79/-2.05	-2.17/-1.29	0.12/0.97	1.61/2.17	1.93/0.91	-0.28/-1.00	-0.87/-0.21	0.61/1.34	1.64/1.02	-0.74/-2.83	-4.26/-4.51	-3.77/-2.01	-0.37/0.72	0.92/0.23	-1.18/-2.10	-1.72/-0.58	0.27/0.88	1.57/2.22	2.61/2.53	1.82/0.70	0.27/0.84	1.17/1.04	0.72/0.15
Θ(75°)	-1.56/-1.94	-2.33/-3.18	-3.41/-2.27	-1.07/-0.36	0.64/1.69	1.62/0.56	-0.60/-1.30	-0.97/-0.26	0.25/0.67	1.08/0.81	-0.87/-3.31	-5.43/-6.19	-5.11/-3.02	-1.17/0.01	-1.87/-2.51	-0.63/-0.50	-0.07/0.72	1.42/1.50	0.89/-0.27	-0.88/-0.57	-0.23/-0.31	-0.47/-0.95	-	-
Θ(82.5°)	-4.06/-4.46	-4.04/-4.53	-4.07/-2.54	-1.80/-1.42	-0.09/-1.13	1.00/-0.23	-1.52/-2.19	-1.68/-0.70	-0.17/0.05	0.48/0.32	-1.10/-3.76	-6.21/-7.24	-5.74/-3.40	-1.38/-0.18	0.15/-0.93	-2.46/-2.94	-2.44/-1.77	-1.65/-1.90	-1.60/-0.63	-0.00/0.01	-0.58/-1.70	-2.21/-1.79	-1.34/-1.80	-2.45/-3.14
Θ(90°)	-6.27/-7.07	-6.73/-7.21	-6.30/-3.53	-2.77/-2.64	-1.04/0.23	0.08/-0.95	-1.89/-2.49	-2.23/-1.31	-0.82/-0.80	-0.51/-0.64	-2.07/-2.50	-8.89/-9.63	-7.38/-4.46	-2.22/-1.07	-0.80/-2.15	-3.85/-3.69	-2.67/-2.15	-2.28/-2.84	-2.82/-1.91	-1.38/-1.26	-1.52/-2.38	-3.43/-3.34	-2.64/-3.14	-4.22/-5.19
Θ(97.5°)	-7.57/-7.22	-6.69/-8.01	-8.68/-4.54	-3.31/-3.41	-1.88/-0.74	-1.24/-2.43	-2.93/-2.93	-2.19/-0.77	-0.79/-1.13	-1.33/-1.72	-3.59/-7.54	-6.16/-3.67	-2.06/-1.27	-1.48/-3.48	-5.50/-4.28	-3.26/-3.22	-4.46/-4.09	-4.00/-2.85	-2.02/-1.70	-1.77/-2.43	-3.83/-4.39	-3.54/-3.62	-5.10/-6.70	-
Θ(105°)	-8.00/-6.48	-4.43/-4.88	-8.88/-7.13	-4.58/-5.02	-3.94/-2.51	-2.37/-3.85	-4.28/-4.12	-3.27/-2.11	-1.80/-2.25	-2.62/-3.24	-5.42/-10.32	-12.08/-7.82	-5.79/-4.29	-3.04/-2.28	-2.65/-5.48	-8.83/-6.89	-4.69/-4.64	-4.28/-4.43	-4.65/-3.32	-1.91/-1.52	-1.72/-2.56	-4.43/-6.41	-5.92/-5.17	-1.07/-8.89
Θ(112.5°)	-8.54/-7.68	-4.13/-3.25	-5.86/-7.84	-5.47/-5.33	-6.21/-6.14	-6.16/-6.10	-5.54/-5.46	-5.21/-4.49	-4.48/-5.04	-5.70/-7.27	-10.49/-10.93	-7.23/-5.78	-5.90/-6.03	-5.55/-5.15	-6.54/-11.23	-8.79/-6.30	-5.19/-4.53	-4.79/-5.51	-6.94/-5.23	-3.16/-2.76	-3.25/-3.63	-4.69/-6.95	-9.23/-8.66	-7.45/-7.42
Θ(120°)	-7.29/-8.60	-5.43/-3.42	-4.62/-8.18	-7.46/-5.27	-5.00/-6.41	-9.79/-13.41	-11.99/-9.88	-8.56/-7.02	-6.84/-5.45	-6.22/-8.73	-10.53/-7.07	-4.68/-4.76	-6.03/-6.29	-5.88/-6.22	-8.86/-13.09	-9.52/-7.27	-7.53/-7.05	-6.01/-6.90	-8.62/-6.46	-4.17/-4.05	-5.39/-6.36	-6.43/-6.92	-8.80/-9.89	-8.30/-6.47
Θ(127.5°)	-7.28/-9.69	-9.26/-6.02	-6.07/-9.47	-11.79/-7.62	-5.01/-4.53	-5.94/-9.38	-14.67/-15.02	-15.96/-13.09	-8.87/-8.89	-10.13/-11.04	-7.55/-4.56	-3.79/-4.70	-5.62/-6.43	-5.69/-7.76	-12.54/-14.48	-10.53/-9.17	-8.55/-7.37	-6.47/-4.30	-7.18/-5.29	-3.99/-4.47	-6.63/-9.41	-10.04/-9.07	-9.42/-11.02	-9.26/-7.32
Θ(135°)	-7.02/-8.13	-9.83/-8.76	-8.76/-11.62	-14.65/-11.03	-7.97/-6.10	-5																		



Antenna Pattern of Scan Radio SC Ant1~2

Appendix B.2

θ(135°)	-13.55/-13.29	-10.18/-9.07	-10.19/-11.21	-9.73/-9.19	-6.42/-6.19	-12.78/-6.35	-7.07/-1.41	-10.00/-10.61	-10.81/-9.36	-7.90/-6.95	-6.61/-6.60	-9.08/-9.16	-8.89/-13.16	-14.42/-15.09	-14.31/-13.34	-15.20/-8.05	-11.57/-9.61	-8.55/-10.13	-7.64/-7.04	-9.12/-8.77	-7.52/-10.98	-7.35/-6.67	-10.05/-13.24	-14.91/-13.48
θ(142.5°)	-8.30/-12.14	-13.93/-11.25	-12.95/-8.24	-5.55/-7.90	-7.02/-4.41	-6.86/-8.77	-5.70/-5.77	-7.36/-8.97	-8.20/-6.83	-7.77/-1.69	-7.73/-8.95	-10.04/-10.78	-11.84/-11.45	-12.76/-15.82	-15.77/-14.28	-15.39/-13.07	-10.32/-8.69	-10.04/-11.16	-11.34/-10.42	-12.84/-11.82	-11.70/-9.23	-8.81/-8.86	-6.14/-3.77	-5.86/-12.60
θ(150°)	-8.49/-12.04	-6.85/-13.35	-12.82/-11.44	-7.91/-9.59	-10.69/-6.90	-6.64/-12.38	-14.50/-8.81	-8.00/-8.25	-1.37/-7.32	-9.28/-12.67	-13.65/-12.36	-13.39/-13.61	-12.34/-14.49	-14.78/-16.22	-15.39/-14.71	-12.97/-15.03	-14.21/-14.91	-13.82/-14.85	-14.81/-12.73	-12.68/-13.74	-14.20/-13.25	-10.94/-10.12	-6.51/-6.88	-9.04/-10.31
θ(157.5°)	-14.98/-12.22	-8.87/-6.69	-6.34/-8.67	-12.73/-11.98	-10.47/-8.46	-8.77/-9.91	-10.55/-9.43	-9.71/-10.86	-13.01/-15.28	-15.12/-14.65	-14.98/-15.07	-15.54/-14.68	-14.45/-13.63	-14.45/-14.24	-14.55/-11.63	-11.60/-12.20	-11.13/-11.53	-12.58/-13.52	-13.42/-11.92	-11.93/-13.44	-15.43/-15.97	-15.08/-16.03	-14.55/-14.82	-14.50/-15.90
θ(165°)	-13.27/-11.93	-10.08/-8.83	-9.24/-10.14	-12.75/-12.55	-13.08/-11.68	-10.88/-11.62	-11.11/-9.78	-9.23/-9.42	-10.29/-10.20	-9.43/-8.30	-7.73/-8.02	-8.94/-10.11	-13.43/-15.68	-14.41/-13.68	-12.00/-11.69	-13.04/-14.89	-15.10/-15.14	-15.56/-15.36	-15.73/-15.49	-14.44/-14.74	-15.33/-14.48	-13.26/-13.69	-13.57/-15.20	-15.30/-15.42
θ(172.5°)	-14.21/-13.69	-14.27/-15.52	-15.85/-14.70	-14.79/-14.21	-13.55/-12.36	-11.31/-11.41	-11.54/-12.02	-11.76/-12.11	-12.68/-12.66	-12.64/-13.17	-13.25/-12.85	-11.09/-10.69	-10.42/-10.59	-10.73/-11.06	-11.47/-12.25	-12.99/-13.00	-13.23/-13.29	-14.25/-13.83	-13.12/-13.68	-14.44/-14.42	-13.36/-13.61	-10.91/-12.49	-14.04/-15.19	-15.15/-15.79
θ(180°)	-10.25/-11.09	-13.09/-13.61	-13.42/-13.87	-13.75/-13.06	-13.03/-13.60	-13.51/-14.78	-13.33/-12.07	-11.89/-12.19	-12.14/-10.96	-10.39/-9.75	-10.24/-11.37	-11.40/-10.61	-10.97/-11.19	-11.20/-11.49	-11.88/-11.88	-12.20/-13.07	-13.67/-14.01	-14.00/-12.06	-11.25/-11.21	-10.40/-10.96	-10.93/-10.52	-9.63/-9.09	-9.26/-9.60	-9.42/-9.25
Freq(Hz)	5.785GPol.	TotalAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	φ(0°)φ(7.5°)	φ(15°)φ(22.5°)	φ(30°)φ(37.5°)	φ(45°)φ(52.5°)	φ(60°)φ(67.5°)	φ(75°)φ(82.5°)	φ(90°)φ(97.5°)	φ(105°)φ(112.5°)	φ(120°)φ(127.5°)	φ(135°)φ(142.5°)	φ(150°)φ(157.5°)	φ(165°)φ(172.5°)	φ(180°)φ(187.5°)	φ(195°)φ(202.5°)	φ(210°)φ(217.5°)	φ(225°)φ(232.5°)	φ(240°)φ(247.5°)	φ(255°)φ(262.5°)	φ(270°)φ(277.5°)	φ(285°)φ(292.5°)	φ(300°)φ(307.5°)	φ(315°)φ(322.5°)	φ(330°)φ(337.5°)	φ(345°)φ(352.5°)
θ(0°)	1.53/1.12	1.13/0.89	1.29/1.46	1.01/0.91	0.99/0.98	0.80/0.78	0.90/0.88	0.78/0.69	0.73/0.79	1.18/1.56	1.46/1.25	1.32/1.11	1.23/1.80	1.51/1.42	1.50/1.51	1.47/1.41	1.22/1.18	1.03/1.11	1.07/1.29	1.49/1.15	0.70/0.96	1.35/1.39	1.20/1.25	1.56/1.57
θ(7.5°)	1.44/1.47	1.35/1.28	1.66/1.81	1.32/1.32	1.53/1.75	1.86/2.02	2.39/2.42	2.38/2.44	2.25/2.19	2.32/2.61	2.58/2.20	2.06/1.76	1.59/1.51	1.38/1.53	1.85/2.10	2.17/2.00	1.63/1.45	1.15/0.95	0.87/0.89	1.09/1.15	0.66/-0.01	-0.27/0.11	-0.05/-0.30	-0.15/0.54
θ(15°)	-0.44/-0.29	-1.10/-1.21	-0.16/0.50	0.23/0.06	0.15/0.70	1.40/2.51	3.13/1.32	2.51/1.85	1.46/1.38	1.37/1.13	0.69/0.24	0.32/0.13	0.01/-0.29	-0.85/-0.72	0.16/0.98	1.17/1.07	0.99/0.91	0.60/0.57	0.67/1.02	1.02/0.71	0.29/-0.04	-0.02/-0.02	-0.59/-2.03	-2.39/-1.29
θ(22.5°)	-2.34/-2.41	-3.98/-4.29	-2.72/-2.02	-1.82/-1.37	-0.51/0.92	1.99/2.34	2.54/2.42	1.72/2.07	-0.52/-0.69	-0.80/-0.84	-1.14/-0.54	0.11/0.56	1.08/0.99	0.44/0.01	-0.27/-0.25	-0.29/0.40	1.29/2.01	2.28/2.46	2.78/3.01	2.78/2.03	1.09/0.09	-1.12/-1.22	-0.68/-1.49	-3.82/-3.73
θ(30°)	-1.45/-2.44	-4.44/-4.80	-5.24/-5.34	-3.77/-2.52	-0.82/-1.36	2.12/1.73	1.49/1.23	0.24/-1.57	-0.87/-3.05	-3.28/-3.46	-3.39/-3.52	-5.19/-7.68	-8.05/-6.31	-5.13/-3.57	-1.32/-1.10	-1.24/-2.13	0.13/1.83	1.52/1.36	1.83/1.86	1.35/1.10	1.11/1.11	0.28/-1.95	-4.60/-4.47	-3.28/-1.95
θ(37.5°)	-2.68/-3.78	-5.88/-4.18	-5.52/-5.87	-4.91/-4.85	-1.37/0.77	0.42/1.09	1.83/2.07	-1.23/-2.39	-3.57/-3.88	-4.84/-4.79	-5.12/-6.45	-5.22/-7.37	-3.37/-3.97	-4.21/-4.58	-1.41/-0.78	-0.42/-1.46	-0.03/-1.46	2.07/1.59	2.07/1.95	1.51/0.72	-0.09/-0.40	-0.84/-1.23	-3.66/-7.47	-6.65/-5.52
θ(45°)	-7.26/-5.79	-12.26/-10.90	-9.49/-7.03	-7.49/-4.39	-1.12/1.39	0.24/0.87	2.74/-0.16	-1.37/-0.97	-2.44/-3.24	-5.17/-5.43	-5.05/-4.71	-3.67/-4.19	-5.95/-4.09	-4.24/-5.57	-3.97/-3.42	-0.84/-1.68	-1.90/0.47	1.59/2.55	2.55/2.06	1.65/0.65	0.48/-0.03	-1.03/-0.83	-1.94/-4.29	-5.84/-6.54
θ(52.5°)	-6.59/-8.82	-9.45/-12.07	-14.64/-12.74	-6.64/-1.30	-0.03/0.80	1.84/1.09	1.99/-1.96	-1.59/-0.83	-1.33/-0.83	-2.17/-1.36	-1.80/-0.93	-1.26/-2.00	-3.76/-4.17	-6.62/-8.52	-5.35/-5.50	-1.15/-0.87	-0.77/-1.27	0.52/1.79	1.20/1.52	1.38/1.10	0.24/-1.40	-2.16/-0.80	-2.75/-6.26	-6.77/-9.90
θ(60°)	-5.71/-5.80	-6.89/-7.31	-12.32/-12.19	-3.59/0.07	1.56/0.49	1.06/1.50	0.96/-1.56	-2.27/-0.86	-0.56/-0.13	-1.89/-1.68	-1.38/-1.27	-1.45/-0.95	-0.90/-0.74	-2.12/-2.59	-2.92/-3.54	-3.33/-1.14	-0.83/-1.99	0.81/2.78	2.60/3.29	1.88/1.62	0.87/-2.36	-1.26/-0.54	-3.10/-8.64	-5.20/-7.56
θ(67.5°)	-1.54/-0.27	-2.21/-6.23	-6.52/-4.97	-1.46/-1.72	0.67/0.85	1.24/1.51	-1.03/-2.84	-2.90/-0.87	0.25/0.76	-0.96/-1.45	-1.45/-2.13	-3.34/-1.34	-1.07/-0.13	-1.49/-0.79	-0.68/-3.88	-3.82/-1.77	-0.79/0.03	1.08/2.74	2.64/3.64	2.43/4.05	3.65/1.79	1.22/2.00	1.31/-0.02	0.59/-3.24
θ(75°)	-1.41/0.37	0.42/-3.96	-4.36/-3.12	-0.95/-3.44	-0.39/0.88	-0.06/0.48	-4.35/-6.41	-7.11/-1.42	0.21/0.48	-0.82/-1.46	-1.61/-1.21	-3.21/-1.83	-1.73/-1.15	-2.90/-1.55	-0.75/-2.43	-2.86/-2.63	-0.04/0.15	1.29/2.51	3.09/2.77	2.38/3.71	5.28/3.76	1.91/0.86	1.86/2.46	1.97/-9.04
θ(82.5°)	-3.19/-1.98	0.34/-3.11	-4.78/-3.85	-2.42/-5.27	-1.00/0.32	-2.84/-1.56	-2.20/-5.04	-4.43/-1.65	0.05/0.00	-1.19/-1.48	-1.97/-2.98	-1.75/-3.12	-4.99/-3.21	-2.54/-3.20	-2.99/-4.18	-0.76/-0.94	0.72/1.59	2.08/2.27	2.63/4.71	5.59/3.91	1.14/0.32	1.57/2.34	1.60/0.20	
θ(90°)	-2.96/-4.53	-1.74/-5.25	-5.88/-3.86	-4.20/-7.29	-3.25/-2.23	-3.16/-3.97	-8.04/-5.11	-2.64/-1.23	-0.52/-1.01	-1.84/-2.40	-2.17/-3.00	-4.82/-4.47	-1.62/-6.25	-5.95/-3.37	-4.37/-3.22	-3.04/-5.65	-3.26/-2.94	-1.69/-1.04	-0.44/-2.88	-2.01/1.56	3.45/1.72	-1.31/-2.17	0.27/1.27	0.06/-0.84
θ(97.5°)	-3.03/-4.62	-3.30/-3.77	-10.24/-7.62	-5.91/-10.54	-5.71/-5.50	-6.46/-5.96	-7.15/-6.23	-4.59/-2.65	-2.39/-2.90	-2.86/-2.69	-3.34/-5.67	-5.87/-3.80	-0.04/-8.80	-7.62/-6.41	-5.83/-4.44	-3.65/-6.62	-6.46/-5.56	-4.09/-3.47	-3.44/-6.20	-6.10/-4.37	-0.81/-2.04	-4.96/-4.78	-0.78/-1.01	-1.43/-3.38
θ(105°)	-4.13/-5.17	-5.73/-9.28	-9.02/-6.76	-6.39/-9.36	-8.83/-5.52	-7.83/-7.70	-7.20/-3.63	-3.63/-4.14	-4.00/-5.73	-4.93/-7.05	-6.30/-3.94	-7.36/-9.82	-7.57/-9.20	-6.15/-6.14	-11.67/-6.46	-5.26/-5.14	-11.67/-6.46	-5.26/-5.14	-11.67/-6.46	-5.26/-5.14	-11.67/-6.46	-5.26/-5.14	-11.67/-6.46	-5.26/-5.14
θ(112.5°)	-9.52/-6.59	-8.88/-11.44	-12.56/-9.89	-8.74/-7.87	-8.40/-8.37	-9.09/-6.11	-10.43/-6.17	-5.59/-5.96	-4.58/-3.77	-5.02/-8.49	-9.80/-5.37	-4.81/-5.16	-8.74/-11.03	-8.89/-12.65	-6.39/-6.58	-6.65/-6.76	-14.31/-8.09	-5.00/-2.95	-2.71/-6.13	-10.50/-3.48	-2.15/-2.38	-7.74/-6.27	-2.89/-4.37	-6.75/-14.94
θ(120°)	-15.11/-13.37	-9.21/-8.50	-12.99/-12.76	-13.06/-13.73	-10.86/-10.01	-12.81/-7.71	-5.80/-6.56	-5.28/-4.52	-6.22/-7.85	-10.74/-10.07	-10.39/-6.59	-5.67/-1.76	-7.69/-9.87	-6.53/-15.54	-5.74/-6.41	-11.59/-10.10	-5.13/-5.53	-2.72/-7.68	-11.01/-4.30	-6.68/-8.02	-7.71/-10.50	-5.48/-7.69	-9.78/-8.74	
θ(127.5°)	-9.37/-9.26	-10.07/-7.68	-6.57/-8.92	-12.82/-12.25	-9.61/-11.93	-10.90/-6.63	-8.37/-7.79	-9.18/-9.25	-10.82/-13.43	-14.63/-12.52	-10.04/-10.97	-12.87/-7.76	-9.46/-6.94	-12.75/-15.42	-9.73/-13.85	-7.47/-8.73	-14.18/-13.58	-5.98/-8.29	-4.82/-9.22	-13.54/-7.14	-9.05/-12.11	-9.68/-10.01	-6.03/-8.81	-13.39/-9.48
θ(135°)	-13.64/-11.51	-8.38/-15.91	-13.39/-8.21	-8.26/-10.07	-10.30/-12.39	-7.64/-6.02	-9.40/-12.87	-11.27/-14.67	-15.54/-13.20	-15.09/-11.28	-9.44/-7.65	-7.44/-9.96	-9.02/-10.62	-8.52/-12.39	-10.89/-12.97	-14.80/-8.32	-12.53/-11.27	-7.82/-9.64	-6.29/-6.01	-8.02/-8.87	-8.07/-10.46	-8.84/-6.99	-6.47/-9.84	-13.24/-9.72
θ(142.5°)	-9.04/-14.46	-10.13/-7.86	-8.99/-7.51	-6.35/-11.82	-9.25/-6.66	-8.09/-13.61	-12.66/-13.20	-9.76/-8.56	-10.83/-13.46	-13.71/-12.88	-12.14/-12.25	-12.45/-10.19	-12.55/-14.02	-15.48/-14.41	-15.48/-13.01	-15.95/-15.42	-14.84/-14.95	-15.75/-15.52	-12.77/-11.13	-11.30/-9.37	-13.01/-13.59	-11.86/-11.97	-1.96/-8.43	-8.62/-10.14
θ(150°)	-10.59/-11.41	-11.66/-11.68	-14.93/-13.13	-7.59/-8.92	-11.99/-10.21	-8.15/-11.23	-14.73/-13.21	-10.42/-12.77	-14.77/-14.98	-16.30/-13.57	-11.02/-12.49	-15.06/-15.45	-15.60/-15.47	-15.61/-14.69	-14.36/-12.48	-14.60/-15.37	-14.35/-14.38	-15.39/-15.18	-12.41/-11.97	-15.13/-15.78	-9.22/-7.38	-7.68/-6.76	-9.18/-12.20	
θ(157.5°)	-8.95/-15.10	-13.47/-11.49	-12.66/-15.74	-14.95/-15.93	-14.90/-15.14	-14.82/-14.67	-14.96/-15.15	-15.56/-15.63	-14.39/-11.76	-11.36/-11.92	-12.80/-11.58	-10.94/-12.28	-14.08/-15.26	-14.29/-14.61	-14.38/-13.83	-13.59/-13.86	-12.58/-11.48	-11.09/-11.96	-10.99/-10.00	-9.82/-10.12	-11.23/-11.92	-12.07/-13.73	-10.19/-7.04	-6.71/-6.53
θ(165°)	-12.20/-11.21	-10.83/-10.67	-10.65/-11.65	-12.67/-13.04	-11.17/-9.74	-8.64/-9.57	-11.07/-12.94	-12.87/-12.94	-12.77/-12.76	-12.86/-10.63	-10.14/-9.43	-9.42/-10.46	-11.44/-14.15	-15.53/-15.05	-14.44/-12.30	-12.33/-14.30	-14.99/-15.64	-15.58/-14.59	-15.94/-14.30	-12.67/-10.99	-9.59/-9.15	-9.70/-10.84	-11.91/-12.07	-12.52/-12.23
θ(172.5°)	-10.83/-10.85	-11.80/-12.01	-11.81/-10.77	-10.97/-12.39	-12.57/-12.30	-11.27/-11.67	-12.43/-13.18	-12.23/-11.49	-9.93/-9.30	-9.72/-10.43	-11.00/-13.22	-10.22/-10.29	-10.58/-10.38	-9.88/-10.26	-11.34/-12.99	-14.24/-14.23	-14.73/-14.29	-14.68/-15.49	-14.43/-12.29	-11.96/-11.41	-9.92/-9.13	-8.64/-9.31	-10.24/-10.79	-9.86/-9.91
θ(180°)	-9.49/-9.11	-9.21/-9.89	-10.61/-11.23	-10.79/-11.89	-11.32/-11.62	-11.96/-14.13	-14.89/-15.67	-15.59/-15.07	-13.71/-12.13	-11.90/-11.58	-12.42/-12.87	-12.06/-12.14	-12.46/-11.46	-10.59/-10.52	-									



Antenna Pattern of Scan Radio_SC Ant1~2

Appendix B.2

Θ (180°)	-14.53/-14.81	-14.14/-13.84	-14.12/-15.28	-16.27/-15.71	-14.38/-14.60	-15.02/-13.90	-12.02/-10.76	-10.11/-9.69	-9.74/-9.26	-9.23/-9.75	-10.30/-10.32	-9.38/-8.28	-8.80/-9.67	-10.60/-11.44	-11.88/-12.65	-12.03/-12.04	-11.81/-12.52	-13.92/-15.99	-15.96/-15.38	-15.52/-15.29	-14.10/-13.53	-13.70/-14.09	-15.29/-14.82	-14.36/-15.15
Freq(Hz)	6.995GPol.	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°)	-0.57/-0.41	-0.25/-0.31	-0.63/-0.91	-1.28/-1.44	-1.34/-1.82	-1.82/-1.61	-1.60/-1.73	-1.71/-1.88	-1.89/-1.79	-1.73/-1.64	-1.72/-1.87	-2.31/-2.33	-2.67/-2.45	-2.46/-3.06	-3.35/-2.96	-2.87/-2.69	-2.67/-2.34	-2.19/-2.20	-2.19/-2.09	-1.55/-1.16	-0.72/-0.77	-0.78/-0.32	-0.42/-0.80	-0.27/-0.22
Θ (7.5°)	-2.77/-2.36	-1.86/-2.16	-2.61/-2.49	-1.93/-1.95	-1.93/-1.83	-1.70/-1.93	-2.01/-2.05	-1.89/-1.89	-1.37/-1.32	-0.93/-1.01	-0.86/-2.10	-2.54/-2.66	-3.03/-3.01	-2.39/-1.73	-1.22/-0.91	-0.80/-1.10	-1.57/-2.31	-3.60/-4.19	-3.86/-2.69	-1.36/-0.23	0.39/0.45	0.25/-0.51	-1.70/-2.69	-2.94/-3.43
Θ (15°)	-3.25/-3.07	-3.97/-5.23	-4.75/-3.42	-2.75/-3.85	-4.03/-3.73	-3.07/-3.39	-3.31/-3.25	-2.99/-1.91	-0.52/-0.86	-2.30/-4.09	-4.82/-5.96	-7.79/-6.75	-5.97/-5.34	-4.45/-3.69	-2.80/-1.68	-0.84/-0.38	-0.01/-0.37	-1.46/-2.22	-1.78/-0.82	-0.21/-0.04	-0.14/-0.64	-0.96/-1.47	-1.24/-1.78	-2.32/-3.43
Θ (22.5°)	-6.75/-6.92	-6.36/-5.61	-4.22/-4.15	-4.61/-4.42	-4.91/-3.75	-3.09/-3.77	-3.67/-3.04	-2.48/-2.02	-1.58/-2.76	-6.23/-8.31	-6.58/-4.91	-6.22/-8.43	-6.76/-6.78	-6.54/-4.12	-3.12/-2.10	-1.69/-1.83	-0.62/-0.56	-1.73/-1.50	-0.13/-0.40	-2.57/-4.49	-2.90/-0.84	-0.77/-1.87	-2.84/-2.86	-2.78/-4.43
Θ (30°)	-5.17/-9.67	-13.20/-7.77	-4.06/-4.41	-2.66/-3.85	-4.37/-2.04	-1.45/-2.22	-1.76/-1.14	-2.54/-2.78	-1.17/-1.90	-3.47/-2.82	-3.67/-5.99	-7.32/-8.63	-7.41/-5.92	-4.05/-4.39	-5.56/-5.17	-1.54/-1.41	-0.75/0.17	-0.20/0.35	1.27/1.34	0.72/0.09	-0.01/-1.72	-4.01/-2.93	-2.61/-6.65	-11.64/-6.11
Θ (37.5°)	-8.26/-5.82	-5.00/-10.52	-5.51/-7.96	-3.95/-4.84	-2.93/-1.05	-2.71/-3.27	-0.88/-1.00	-2.91/-3.08	-2.90/-4.32	-2.09/-2.17	-5.26/-5.24	-4.25/-4.47	-6.97/-6.74	-4.17/-2.74	-3.12/-4.21	-1.81/-0.66	0.65/-0.04	0.15/0.43	0.69/2.11	2.53/1.20	-0.17/-2.17	-2.06/-1.36	-2.76/-0.70	-0.39/-6.47
Θ (45°)	-11.67/-8.37	-7.86/-9.43	-4.87/-6.64	-5.75/-6.17	-3.50/-2.06	-3.53/-2.13	-1.77/-1.61	-1.60/-2.66	-5.32/-4.86	-3.02/-3.82	-5.35/-5.95	-7.36/-5.52	-3.41/-4.16	-3.57/-2.30	-3.02/-3.16	-1.73/-0.99	-0.48/-0.64	0.55/1.01	1.82/2.59	2.29/1.71	0.50/-2.51	-2.61/-3.22	-8.61/-4.36	-3.91/-8.68
Θ (52.5°)	-3.84/-6.97	-5.59/-4.44	-4.35/-1.67	-3.84/-4.48	-2.08/-0.30	-2.68/-0.33	-2.09/-0.55	-0.35/-1.14	-3.86/-4.87	-5.21/-3.48	-2.75/-5.82	-6.53/-5.45	-2.73/-2.21	-2.05/-1.83	-2.18/-2.54	-1.13/-1.16	-3.14/-0.86	-1.23/-1.42	1.30/0.29	0.90/1.94	-0.12/-2.66	0.26/-0.29	-1.76/-0.57	0.81/-0.03
Θ (60°)	-0.49/-5.14	-4.21/-6.12	-4.59/-0.44	-0.77/-1.58	-0.15/-0.59	1.67/2.86	-0.32/1.13	0.44/0.33	-1.25/-3.54	-3.53/-0.36	-0.49/-3.56	-0.87/-1.33	-2.24/-1.38	-0.97/-2.18	-1.74/-4.63	-1.49/-1.90	-3.58/-0.79	0.13/-2.25	0.91/-0.55	1.55/-0.53	-2.90/-7.90	-1.64/0.52	-1.75/-2.17	-0.86/0.50
Θ (67.5°)	1.72/-2.09	-0.31/-2.03	-2.97/-0.10	1.16/-0.16	1.93/0.78	4.00/0.26	-1.24/0.27	-0.15/0.92	-1.70/-1.27	-2.03/0.31	-3.01/-4.80	0.17/-0.35	-1.06/-0.47	-0.09/-2.75	-1.98/-6.37	-3.26/-3.41	-0.15/-0.90	1.98/-1.35	1.61/1.98	3.68/2.20	1.19/-4.29	-1.89/3.40	-0.00/-3.52	-3.16/2.85
Θ (75°)	0.71/-0.97	1.49/1.12	-1.47/1.61	1.84/-0.56	0.00/1.07	3.13/0.62	-0.71/-1.45	-3.05/0.41	-1.82/-1.73	-2.72/-1.39	-4.71/-5.29	-0.59/-1.43	-1.43/-0.23	-0.64/-3.17	-2.43/-8.05	-4.41/-4.92	-0.43/-0.64	2.85/-0.32	1.94/3.45	3.52/3.62	4.45/-0.56	0.66/4.37	3.20/-2.78	0.60/3.66
Θ (82.5°)	-2.05/-2.04	0.35/2.14	-1.65/1.17	0.88/0.00	-0.39/-3.01	1.39/0.37	-1.65/-1.27	-4.54/-0.84	-2.19/-2.74	-4.34/-2.16	-6.03/-5.90	-1.66/-2.70	-2.75/-1.95	-1.15/-3.54	-2.73/-10.53	-5.80/-7.68	-0.95/-0.70	2.44/0.79	2.57/2.02	0.90/3.92	4.98/1.08	1.30/2.74	3.55/-4.32	1.65/3.02
Θ (90°)	-4.03/-4.32	-3.58/1.40	-2.68/-2.12	-1.30/-0.69	-2.43/-6.89	0.56/-0.95	-2.42/-1.47	-6.21/-2.08	-3.09/-4.20	-4.14/-3.80	-8.33/-5.91	-3.41/-4.96	-4.06/-3.25	-2.91/-3.79	-3.06/-13.15	-9.34/-8.08	-6.10/-3.21	-1.15/0.40	-0.26/-2.77	-6.60/0.43	2.31/-0.85	0.12/-0.30	2.49/-4.74	0.82/0.14
Θ (97.5°)	-4.07/-6.05	-9.58/-0.95	-1.92/-3.29	-4.42/-2.86	-3.40/-9.37	-1.07/-4.01	-3.55/-2.45	-8.09/-3.15	-5.33/-6.15	-3.91/-4.32	-9.09/-6.32	-4.82/-7.93	-7.84/-4.75	-2.90/-4.67	-5.01/-15.10	-10.59/-7.62	-7.46/-8.30	-5.53/-1.59	-8.48/-6.86	-10.85/-4.71	-2.15/-4.86	-1.36/-1.60	0.66/-4.05	-0.44/-2.60
Θ (105°)	-3.98/-6.90	-7.35/-4.36	-3.05/-2.76	-6.79/-7.61	-4.27/-6.72	-3.52/-11.89	-7.67/-7.75	-3.58/-3.73	-5.19/-6.47	-8.84/-6.59	-7.61/-8.05	-8.45/-10.41	-7.33/-7.32	-4.44/-5.09	-13.52/-14.78	-12.12/-9.83	-10.26/-11.14	-3.33/-2.18	-8.43/-5.06	-10.04/-7.56	-2.19/-5.43	-4.96/-3.19	-0.87/-8.73	-1.36/-1.59
Θ (112.5°)	-8.57/-10.98	-6.99/-5.80	-8.07/-7.17	-5.24/-8.25	-5.95/-10.41	-6.81/-4.23	-4.07/-2.41	-4.43/-5.89	-4.13/-7.24	-10.64/-9.46	-7.83/-10.26	-12.64/-9.74	-7.44/-9.72	-7.18/-6.67	-12.17/-14.59	-10.58/-8.10	-13.38/-8.40	-6.70/-2.98	-5.01/-4.12	-7.19/-4.74	-4.01/-5.71	-9.37/-4.86	-6.56/-15.03	-2.88/-3.25
Θ (120°)	-15.47/-9.69	-10.67/-7.61	-6.99/-8.35	-9.16/-9.64	-10.25/-10.29	-5.93/-5.19	-8.22/-9.20	-9.52/-8.49	-6.69/-11.98	-9.65/-9.43	-9.68/-13.77	-13.66/-9.85	-9.06/-9.62	-10.33/-8.44	-12.13/-10.09	-14.47/-5.93	-15.28/-9.15	-9.75/-6.20	-11.80/-5.98	-7.80/-7.46	-14.51/-4.64	-6.95/-6.96	-3.71/-10.12	-5.19/-10.27
Θ (127.5°)	-7.45/-7.35	-8.58/-7.56	-7.67/-6.89	-8.76/-11.66	-8.10/-7.72	-4.97/-5.91	-7.47/-9.20	-8.37/-13.38	-10.94/-8.36	-10.47/-8.34	-11.03/-13.20	-13.31/-13.76	-14.76/-12.67	-9.73/-9.90	-14.24/-12.12	-10.24/-8.41	-10.75/-6.40	-13.35/-7.26	-7.04/-2.60	-4.34/-9.04	-6.51/-6.58	-13.59/-8.71	-4.89/-6.24	-4.22/-6.24
Θ (135°)	-14.01/-14.19	-13.02/-11.13	-13.46/-12.77	-8.88/-8.86	-13.35/-5.80	-8.85/-9.61	-13.39/-10.87	-14.93/-11.65	-12.52/-8.21	-9.55/-8.86	-10.57/-12.18	-13.42/-14.84	-15.41/-10.47	-14.33/-10.95	-14.01/-11.03	-9.98/-15.13	-13.12/-13.64	-7.94/-12.96	-15.30/-8.83	-5.58/-9.39	-15.55/-10.46	-10.80/-7.99	-8.20/-5.07	-6.55/-11.23
Θ (142.5°)	-7.91/-10.58	-10.34/-10.36	-8.65/-10.73	-11.65/-11.78	-10.77/-9.01	-15.36/-13.74	-15.08/-10.88	-15.15/-11.33	-9.50/-12.51	-14.61/-12.06	-13.99/-15.01	-15.38/-15.83	-13.04/-14.13	-12.33/-11.04	-10.12/-14.07	-15.72/-15.65	-14.28/-13.31	-11.96/-15.71	-10.93/-8.73	-9.86/-11.10	-13.01/-13.18	-9.79/-9.96	-8.42/-5.05	-5.80/-7.41
Θ (150°)	-9.02/-8.55	-13.94/-8.11	-10.17/-8.92	-12.86/-14.90	-10.13/-9.47	-11.87/-14.90	-16.36/-13.65	-14.62/-14.36	-15.13/-15.69	-11.27/-11.42	-11.72/-14.36	-14.78/-15.19	-15.55/-15.18	-13.89/-12.70	-10.15/-12.58	-15.71/-15.68	-15.40/-11.75	-12.08/-11.25	-11.32/-13.12	-12.22/-11.53	-11.85/-13.30	-15.34/-10.97	-7.13/-4.80	-7.27/-11.48
Θ (157.5°)	-7.56/-8.68	-14.20/-13.84	-14.64/-11.16	-9.53/-11.10	-13.34/-13.42	-10.37/-9.79	-10.29/-10.33	-10.47/-9.11	-7.18/-6.71	-7.79/-9.68	-12.00/-14.17	-15.85/-15.36	-15.25/-15.64	-12.02/-10.84	-10.19/-9.99	-12.78/-14.80	-14.57/-11.33	-10.18/-12.45	-15.51/-13.81	-12.62/-11.80	-9.59/-10.51	-13.85/-15.34	-14.98/-12.58	-8.76/-8.12
Θ (165°)	-15.74/-15.53	-14.77/-14.42	-13.78/-14.80	-15.33/-15.22	-13.87/-14.65	-13.54/-13.22	-14.91/-15.31	-12.89/-10.74	-9.93/-10.48	-12.21/-13.03	-14.71/-15.16	-14.72/-15.66	-15.49/-14.71	-15.25/-15.85	-15.11/-15.32	-15.85/-14.19	-11.35/-11.13	-13.69/-15.83	-15.50/-15.10	-14.71/-15.54	-15.72/-14.43	-13.24/-11.96	-11.94/-14.62	-15.76/-14.91
Θ (172.5°)	-13.40/-13.89	-14.61/-15.64	-15.91/-15.21	-14.81/-14.80	-15.55/-15.74	-15.05/-14.99	-15.40/-15.24	-15.35/-15.56	-15.19/-15.15	-15.30/-12.87	-11.88/-12.09	-13.23/-13.48	-14.15/-14.18	-14.31/-13.30	-13.27/-11.41	-15.38/-14.49	-14.52/-13.97	-14.40/-13.75	-12.22/-11.36	-11.07/-11.13	-11.34/-11.27	-10.29/-9.34	-9.51/-10.35	-11.57/-13.01
Θ (180°)	-15.64/-14.14	-14.97/-14.70	-15.02/-15.42	-15.41/-15.55	-15.57/-15.57	-15.64/-15.89	-15.12/-14.40	-14.22/-13.50	-11.82/-11.11	-11.65/-12.69	-13.21/-12.98	-12.47/-12.33	-11.89/-12.57	-13.38/-14.21	-13.67/-13.49	-13.50/-14.32	-15.32/-15.01	-15.42/-16.04	-15.36/-15.15	-15.49/-16.12	-15.18/-15.73	-14.95/-14.58	-14.55/-15.33	-15.03/-15.14

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

