



Antenna Pattern_Radio 3 6GHz

Appendix J

Θ(75°)	-2.54/-0.42	-1.09/-1.70	0.75/0.51	-2.02/-0.56	1.09/-0.92	-0.24/-1.10	0.82/-0.30	-4.29/-7.81	-0.02/-7.86	-4.63/-4.10	-4.07/-1.48	-1.23/-5.21	-9.40/-0.91	-5.57/-5.97	0.79/2.03	2.37/1.88	2.27/1.56	1.54/0.44	1.09/1.15	1.42/-0.24	0.77/0.54	1.21/1.54	1.81/0.71	0.39/0.71
Θ(82.5°)	-2.62/-1.03	-3.58/-1.59	-0.19/-0.72	-0.80/-5.0	-1.08/-2.69	-1.00/-3.76	0.12/-0.38	-1.55/-2.95	-0.48/0.05	-5.38/-7.31	-0.09/-0.68	-1.67/-11.58	-3.03/-0.96	-3.05/-3.37	0.60/1.22	2.16/2.08	2.58/1.80	0.97/-0.25	0.55/1.68	0.97/0.59	0.31/0.80	1.46/1.34	2.49/1.69	-0.16/0.07
Θ(90°)	-2.00/-0.44	-2.71/-1.38	-1.35/-1.09	-0.36/1.17	-1.99/-2.30	-0.14/-4.90	-3.32/-2.78	1.20/-0.61	-1.22/3.36	-8.08/-3.75	1.30/-1.36	-6.30/-4.45	0.75/1.73	0.56/-1.98	-0.22/0.87	1.33/0.33	0.95/1.70	-0.72/-2.64	-2.82/0.16	-0.49/-3.39	-0.36/0.12	0.86/1.50	2.84/2.29	-0.72/0.80
Θ(97.5°)	-1.85/-1.79	-4.97/-2.42	-2.13/-1.86	-0.10/-0.14	-0.88/-2.07	-0.89/-2.29	-9.20/-6.72	0.33/-0.22	-6.20/1.78	-10.48/-2.22	1.58/-6.13	-7.77/-0.66	2.83/2.66	0.61/-3.77	-3.14/-1.47	0.29/-3.20	-3.05/0.56	-2.80/-5.43	-7.33/-1.18	-1.39/0.06	-1.68/-1.09	1.22/1.99	2.84/1.44	0.31/0.07
Θ(105°)	-0.95/-3.01	-5.91/-3.38	-2.57/-2.04	-0.26/-1.40	-1.93/-2.98	0.34/-0.23	-7.29/-5.30	-2.13/0.17	-2.34/0.56	-4.37/-2.45	-0.55/-8.92	-5.49/-0.12	2.23/-4.48	-0.26/-3.91	-2.73/-1.50	-0.69/-4.25	-1.90/1.10	-2.46/-5.74	-6.77/-1.32	-0.58/-1.46	-1.72/-2.06	0.68/1.88	2.61/1.02	0.50/-0.81
Θ(112.5°)	-1.51/-4.32	-8.76/-6.63	-2.24/-2.39	-3.48/-2.09	-0.51/-5.71	-1.72/-1.24	-3.31/-4.73	-2.98/-2.66	-2.81/-3.23	-2.81/-3.99	-4.23/-5.50	-0.81/0.03	2.83/-1.84	-2.95/-5.77	-6.48/-3.39	-0.18/-4.03	-4.43/-0.59	-1.71/-1.76	-5.23/-5.43	-2.01/-3.70	-1.87/-3.16	-0.81/1.08	1.19/-1.89	0.51/-0.93
Θ(120°)	-2.87/-4.06	-6.36/-6.83	-2.00/-2.36	-4.02/-5.08	-2.96/-7.27	-0.89/-2.22	-1.38/-1.47	-2.32/-6.51	-0.56/-2.87	-1.34/-4.58	-5.51/-4.41	-1.51/-2.10	0.51/-2.37	-11.28/-11.56	-3.55/-5.14	-3.59/-6.19	-6.72/-6.30	-6.87/-13.58	-7.77/-10.93	-2.70/-5.59	-1.72/-3.97	-2.32/0.69	1.05/-2.11	-0.26/-1.12
Θ(127.5°)	-3.58/-5.45	-5.54/-5.90	-3.70/-3.92	-5.14/-5.87	-6.90/-1.97	-5.96/-7.42	-5.47/-4.24	-5.36/-5.81	-3.33/-1.62	-2.47/-9.52	-9.73/-6.38	-6.79/-5.43	-5.34/-9.44	-10.69/-6.34	-4.28/-2.39	-2.77/-7.56	-8.64/-2.19	-5.26/-14.12	-6.78/-4.85	-1.93/-3.47	-3.87/-6.14	-4.88/-2.15	-2.36/-2.09	-1.61/-0.69
Θ(135°)	-8.56/-5.84	-5.66/-5.43	-6.05/-3.01	-3.99/-8.78	-11.13/-9.96	-11.92/-10.70	-9.00/-5.81	-9.02/-13.48	-7.09/-2.62	-4.78/-10.57	-12.10/-8.54	-9.38/-8.86	-8.25/-8.99	-8.76/-13.65	-9.30/-3.67	-6.28/-5.56	-4.22/-2.09	-7.79/-11.21	-5.24/-3.24	-5.03/-4.15	-3.70/-7.81	-5.91/-2.34	-0.63/-2.13	-4.27/-5.82
Θ(142.5°)	-4.30/-3.60	-3.77/-4.97	-5.63/-6.87	-7.66/-8.27	-8.60/-9.59	-11.24/-9.35	-7.88/-3.65	-5.14/-9.76	-4.78/-2.76	-4.94/-8.59	-5.07/-3.89	-7.27/-9.20	-7.12/-7.23	-11.43/-7.66	-5.78/-5.39	-9.33/-8.26	-7.20/-6.03	-13.42/-10.48	-14.24/-9.86	-13.09/-8.12	-6.84/-7.53	-7.00/-4.63	-2.89/-2.39	-2.97/-4.79
Θ(150°)	-6.79/-5.62	-4.28/-5.87	-8.95/-10.58	-8.01/-9.33	-9.46/-6.72	-10.38/-14.54	-10.47/-9.09	-9.68/-7.30	-7.27/-8.44	-7.78/-9.63	-10.57/-5.59	-5.02/-7.70	-5.95/-6.36	-10.44/-7.77	-7.77/-12.32	-10.73/-9.73	-7.60/-6.81	-10.14/-11.22	-14.52/-12.40	-9.35/-10.87	-8.02/-8.69	-6.89/-5.22	-5.93/-5.56	-6.22/-7.05
Θ(157.5°)	-9.71/-8.29	-7.90/-8.21	-8.34/-9.60	-9.67/-10.05	-9.85/-9.82	-12.14/-9.67	-5.62/-5.48	-9.31/-12.09	-9.09/-9.87	-11.76/-15.16	-9.81/-6.75	-8.03/-12.54	-10.56/-12.88	-12.87/-10.06	-11.53/-14.99	-10.55/-12.65	-13.11/-12.02	-10.55/-12.34	-13.64/-9.34	-5.58/-7.65	-7.93/-7.56	-9.33/-9.10	-7.62/-7.71	-9.76/-11.49
Θ(165°)	-11.24/-10.46	-8.70/-8.21	-9.24/-11.96	-15.36/-12.84	-11.23/-12.14	-13.15/-15.47	-12.21/-11.36	-12.12/-13.78	-9.77/-7.95	-8.96/-10.33	-9.36/-10.13	-12.27/-12.03	-13.00/-14.36	-9.74/-8.67	-9.91/-10.89	-10.68/-12.43	-15.02/-15.23	-14.72/-13.92	-10.30/-8.52	-9.59/-12.87	-15.16/-15.90	-13.65/-12.34	-10.41/-10.36	-12.77/-12.01
Θ(172.5°)	-7.42/-7.52	-8.87/-10.21	-10.66/-9.99	-8.49/-9.33	-11.22/-11.52	-11.40/-11.49	-10.63/-10.36	-10.70/-10.56	-10.53/-11.45	-12.98/-14.15	-13.15/-11.15	-9.96/-9.49	-9.86/-12.59	-12.09/-11.48	-8.82/-10.08	-10.65/-11.53	-13.36/-14.98	-15.09/-12.96	-10.41/-8.92	-9.38/-10.16	-10.16/-11.02	-11.62/-10.66	-10.14/-9.43	-7.89/-7.07
Θ(180°)	-7.11/-7.35	-7.94/-8.30	-8.19/-8.27	-8.68/-9.55	-10.88/-13.65	-14.74/-13.72	-12.90/-12.72	-12.44/-12.14	-11.31/-11.54	-12.73/-13.15	-13.61/-12.85	-11.68/-10.55	-11.33/-12.02	-12.36/-12.47	-10.95/-10.18	-8.81/-8.58	-8.09/-7.96	-8.15/-8.13	-8.19/-7.73	-7.36/-7.23	-7.31/-7.50	-5.77/-7.44	-7.09/-6.44	
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°)	-2.13/-1.76	-1.85/-1.85	-1.70/-2.05	-2.59/-2.76	-3.15/-2.69	-2.88/-2.92	-2.94/-3.45	-4.23/-4.11	-4.16/-4.69	-4.48/-4.46	-3.99/-3.84	-4.35/-4.67	-4.34/-3.85	-3.85/-4.25	-3.71/-3.77	-3.99/-3.52	-3.52/-3.42	-3.37/-3.29	-2.67/-2.27	-2.15/-2.27	-2.15/-2.27	-2.15/-2.27	-2.15/-2.27	-2.15/-2.27
Θ(7.5°)	-5.98/-5.19	-4.94/-4.06	-3.90/-4.08	-3.52/-3.87	-3.90/-3.87	-3.76/-3.45	-2.97/-3.56	-4.00/-4.38	-4.14/-3.86	-3.40/-3.20	-3.33/-3.44	-2.23/-1.44	-1.60/-1.55	-1.79/-2.09	-1.99/-2.31	-3.09/-4.22	-5.24/-4.89	-4.75/-5.31	-5.60/-6.12	-6.69/-6.95	-7.19/-7.79	-8.30/-8.14	-8.06/-7.79	-7.06/-6.38
Θ(15°)	-5.84/-5.48	-3.63/-2.04	-1.62/-1.80	-2.16/-2.76	-3.07/-3.33	-3.83/-3.43	-2.79/-2.87	-2.87/-3.30	-3.96/-4.54	-4.78/-5.99	-5.52/-4.04	-2.55/-1.27	-0.53/-0.38	-0.93/-2.02	-3.92/-3.68	-7.01/-5.21	-4.07/-3.72	-3.50/-3.76	-3.54/-3.72	-4.64/-5.27	-5.73/-7.09	-9.22/-10.50	-8.83/-7.35	
Θ(22.5°)	-5.63/-4.88	-3.71/-2.14	-2.15/-2.92	-3.19/-2.48	-2.20/-1.91	-3.45/-4.55	-4.41/-3.64	-3.42/-3.80	-3.37/-2.04	-0.63/-0.08	-0.41/-1.80	-1.72/-2.09	0.87/0.48	-0.42/-1.26	-2.52/-2.88	-5.17/-5.85	-4.54/-3.71	-4.02/-4.17	-5.04/-6.09	-8.44/-10.66	-12.14/-11.72	-9.73/-9.70	-9.73/-7.50	-8.45/-5.13
Θ(30°)	-4.35/-2.57	-2.94/-4.47	-4.73/-4.75	-2.51/-0.79	-0.34/-0.27	-1.62/-2.72	-0.89/0.51	-0.47/-2.74	-3.39/-2.37	-1.62/-1.10	-0.85/-1.43	-2.93/-2.04	0.70/2.21	1.65/-0.53	-1.05/-0.89	-3.45/-3.78	-2.03/-2.14	-2.85/-2.51	-3.00/-4.52	-5.60/-6.37	-8.20/-9.60	-10.61/-12.39	-12.97/-11.01	-9.27/-5.66
Θ(37.5°)	-3.78/-4.21	-3.52/-3.51	-3.04/-3.22	-0.37/0.73	0.58/0.93	1.23/-1.22	0.48/0.16	-1.41/-1.80	-1.49/-1.67	-2.38/-0.07	2.31/0.96	-0.94/-1.23	1.54/0.73	0.87/0.05	1.04/2.12	0.19/-1.62	-2.07/-2.02	-1.31/-1.91	-1.80/-1.70	-1.80/-2.31	-4.84/-5.09	-3.50/-6.07	-7.36/-6.45	-7.89/-3.14
Θ(45°)	-2.11/-3.74	-2.63/-2.30	-1.41/-1.48	0.65/-1.39	0.62/0.09	0.55/-2.14	-1.69/-1.13	-0.74/-2.32	-2.20/-3.21	-0.74/-0.30	0.68/0.66	1.55/-1.02	1.70/0.50	-0.41/0.90	1.08/1.54	0.64/-0.72	-1.58/-2.86	-3.34/-4.06	-4.79/-3.67	-2.63/-1.50	-3.37/-3.70	-3.38/-4.10	-5.82/-5.95	-4.15/-2.21
Θ(52.5°)	0.11/-1.13	-0.56/-1.66	-2.69/-1.17	-0.21/-0.47	-1.95/-1.71	-0.59/-0.16	0.85/-1.19	-3.66/-1.38	-2.51/-1.84	-0.77/-2.29	-0.31/2.23	-0.67/-2.77	-2.36/-0.41	-1.16/1.03	0.27/-0.89	-0.69/-1.72	-2.17/-2.81	-5.59/-5.31	-3.72/-2.91	-4.98/-1.84	-2.19/-3.01	-1.32/-0.72	-1.67/-3.05	-1.82/-1.30
Θ(60°)	-0.52/-1.86	0.78/0.33	-3.68/0.17	-0.37/-1.39	-2.41/-0.29	0.41/-2.19	1.19/-2.31	-1.91/-3.05	-3.43/0.70	-1.84/-2.68	-1.14/0.02	-4.60/-4.22	-5.37/-1.27	-2.28/-1.72	-0.42/-0.83	-0.32/-1.22	-1.77/-1.20	-2.13/-0.50	0.53/0.06	-2.80/-1.61	-0.86/-0.90	-0.07/0.52	0.67/0.18	-0.01/0.85
Θ(67.5°)	0.65/-0.61	0.91/-0.26	-2.36/0.41	-1.59/-0.16	-1.50/-0.06	2.05/-1.05	1.04/-1.22	-2.67/-4.30	-2.99/-0.49	-3.59/-1.19	-6.63/-7.82	-2.50/-1.98	-4.02/-2.58	-1.30/0.91	0.38/-1.72	0.14/0.70	0.86/-1.57	1.92/2.38	0.86/-0.60	-0.07/-0.03	0.41/1.52	1.77/1.74	1.65/-1.51	
Θ(75°)	0.08/-1.37	0.76/-0.89	-1.55/-0.75	-0.69/-0.63	-0.82/-1.02	0.69/-3.08	-4.40/-4.28	-1.52/-6.24	-3.46/-12.62	-6.40/-3.62	-9.29/-3.19	-0.67/-3.85	-12.31/-4.66	-4.07/-3.68	0.13/0.87	1.08/1.92	2.22/2.83	2.46/3.52	3.62/-1.51	1.24/1.05	0.51/-1.25	2.89/1.84	1.24/0.89	
Θ(82.5°)	1.08/0.85	1.28/-1.71	-1.07/-1.28	-1.99/-1.13	0.17/-0.32	-3.62/-6.88	-4.05/-1.40	-0.26/-3.30	-1.82/-3.32	-2.96/-5.16	-0.43/0.79	-3.70/-10.01	-3.29/-1.15	-3.89/-4.40	0.16/-1.92	1.64/-1.93	1.23/3.30	2.59/-0.04	0.84/2.88	4.16/2.75	1.63/-1.56	1.28/-1.57	4.29/-1.93	0.61/-2.14
Θ(90°)	1.12/0.79	-0.52/-2.62	-1.04/-1.33	-2.17/-0.62	1.17/-0.14	-3.56/-6.42	-2.36/-2.07	-3.10/-2.21	-2.11/0.86	-3.74/-3.85	-0.41/-1.12	-4.16/-4.94	1.47/-1.79	-0.74/-1.35	-2.14/-0.64	1.04/-1.08	-1.17/-1.70	0.58/-1.77	-3.16/0.85	2.16/2.27	0.22/0.72	1.36/1.03	3.81/-1.36	0.03/-2.29
Θ(97.5°)	0.42/0.14	-1.14/-3.35	-1.55/0.01	-1.83/-1.78	-0.04/-0.12	-1.30/-1.17	-1.54/-4.80	-4.46/-1.75	-3.39/2.29	-6.22/-0.53	0.05/-0.26	-5.39/-1.75	3.51/-0.65	-1.02/-2.61	-3.25/-3.27	-2.56/-2.01	-4.70/-0.75	-3.28/-4.16	-7.75/-1.72	0.43/0.98	-0.88/-0.23	0.98/-1.93	3.83/-1.23	-1.26/-1.78
Θ(105°)	-0.22/-1.49	-1.84/-3.39	-2.05/-1.53	-2.39/-2.23	-2.15/-0.95	0.95/-3.09	-3.38/-8.95	-8.02/-3.13	-2.78/2.09	-4.72/-1.17	-1.74/-6.29	-3.93/-2.00	3.38/-4.44	-0.31/-1.38	-3.04/-6.03	-1.63/-1.63	-4.43/-0.89	-1.81/-3.34	-5.87/-1.84	0.42/-0.32	-0.55/-2.34	-0.07/-1.20	2.14/-0.25	0.40/-2.32
Θ(112.5°)	-1.19/-3.94	-1.45/-3.37	-4.29/-3.68	-1.89/-2.94	-5.53/-3.44	-2.09/-3.57	-2.58/-7.02	-8.85/-3.76	-0.54/-0.50	-3.48/-2.02	-3.90/-0.90	0.06/-1.81	1.99/-1.63	-4.61/-7.94	-6.19/-5.38	-3.47/-3.85	-7.16/-3.16	-6.39/-8.33	-7.80/-3.16	0.58/-1.42	-1.03/-5.06	-0.85/0.36	0.96/-1.81	0.68/0.44
Θ(120°)	-2.08/-2.93	-1.11/-1.94	-7.98/-4.24	-3.17/-5.09	-6.49/-3.52	-3.89/-6.47	-2.22/-4.47	-3.44/-10.82	-2.66/0.48	-2.01/-3.83	-5.74/-10.49	-1.66/-4.62	-1.89/-3.95	-9.03/-15.44	-10.15/-5.22	-1.85/-6.63	-9.60/-4.69	-8.53/-10.54	-10.39/-5.08	-0.44/-5.87	-3.48/-4.95	-2.24/0.58	1.10/-2.07	-1.78/-1.30
Θ(127.5°)	-6.49/-2.50	-2.59/-4.64	-6.75/-8.22	-4.59/-5.40	-7.13/-4.43	-8.23/-5.79	-2.57/-3.76	-5.09/-8.44	-3.34/-0.43	-1.72/-10.09	-12.17/-6.20	-6.38/-6.91	-6.42/-14.32	-12.32/-12.42	-5.68/-2.88	-0.09/-6.96	-7.12/-1.54	-6						

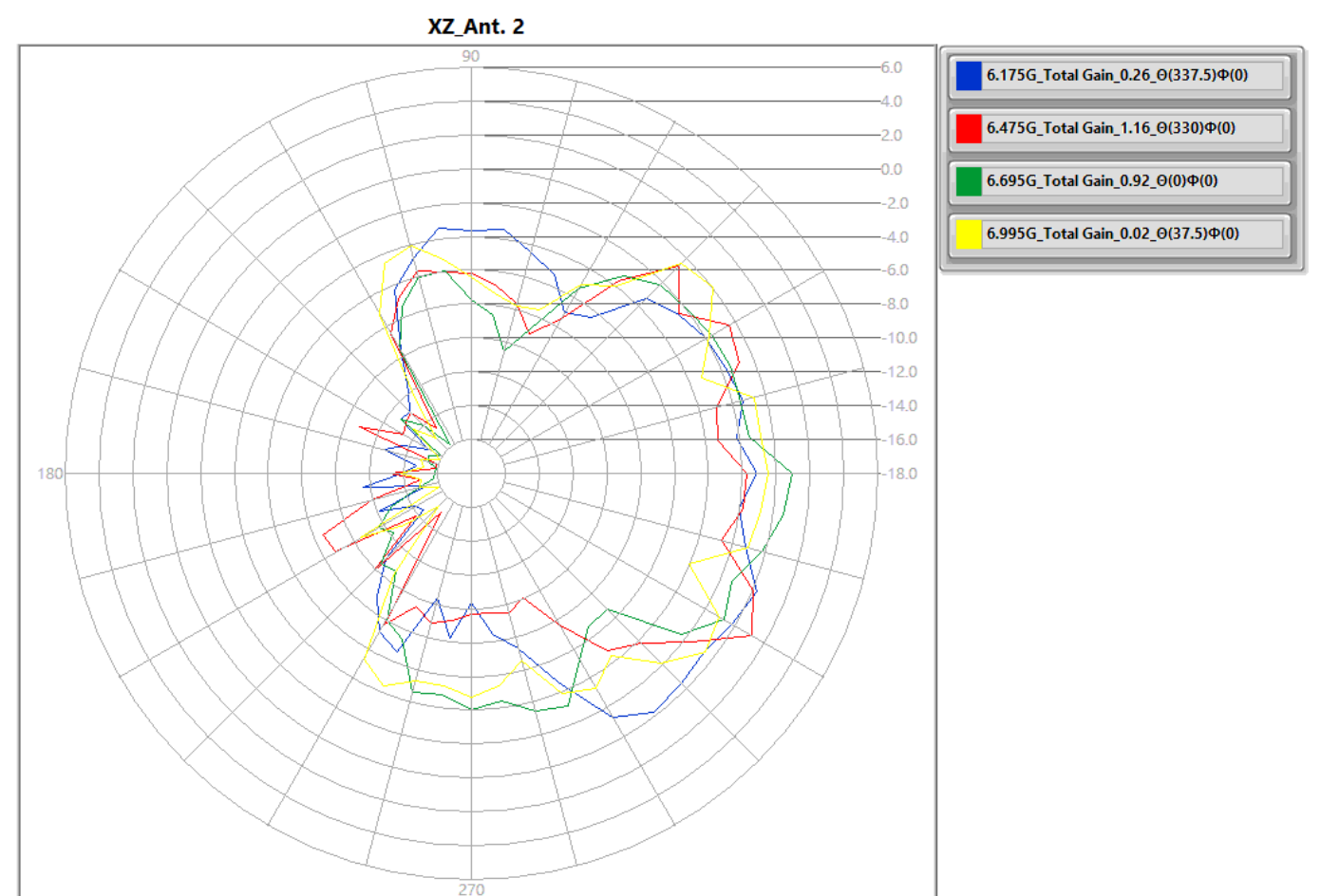
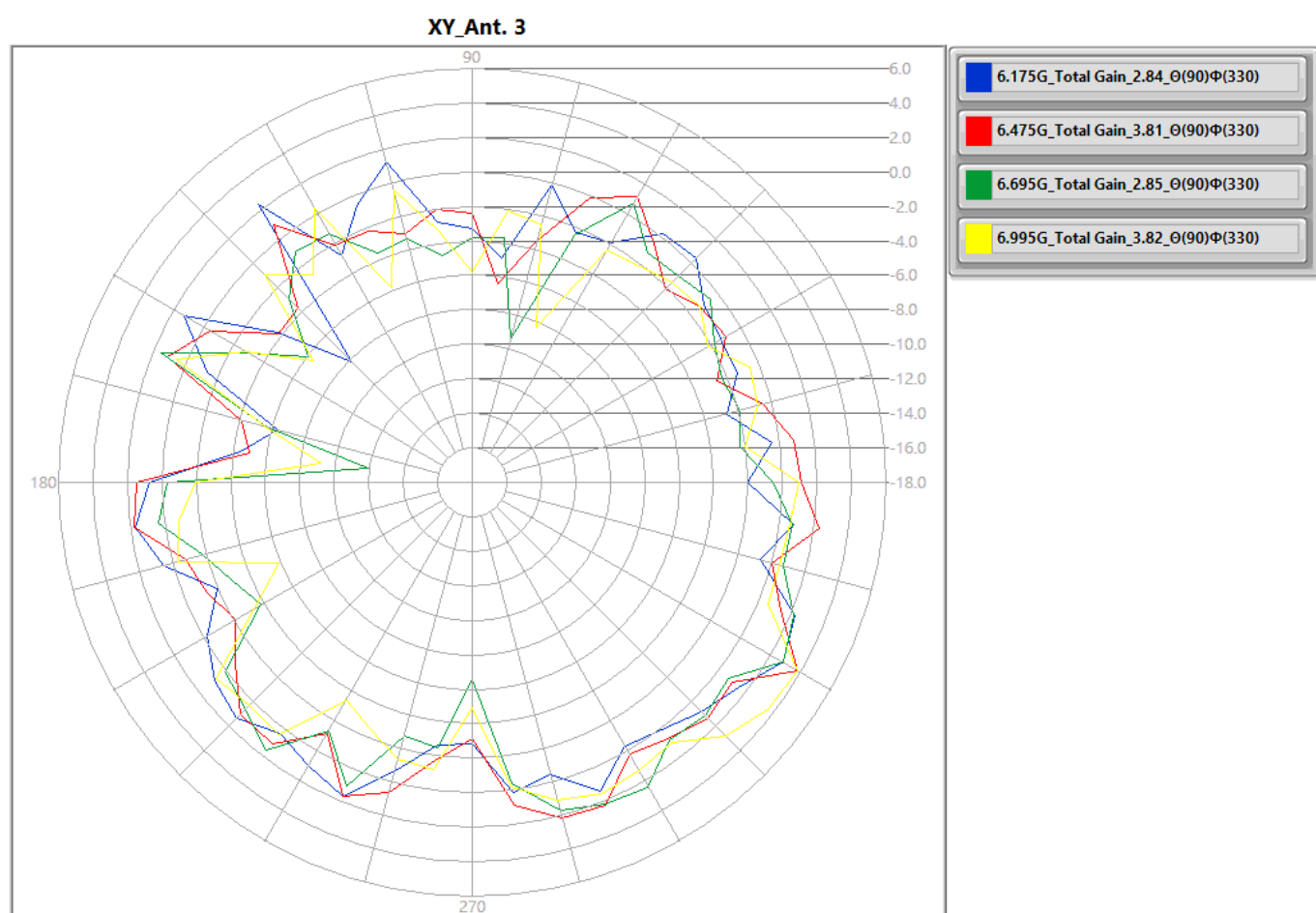
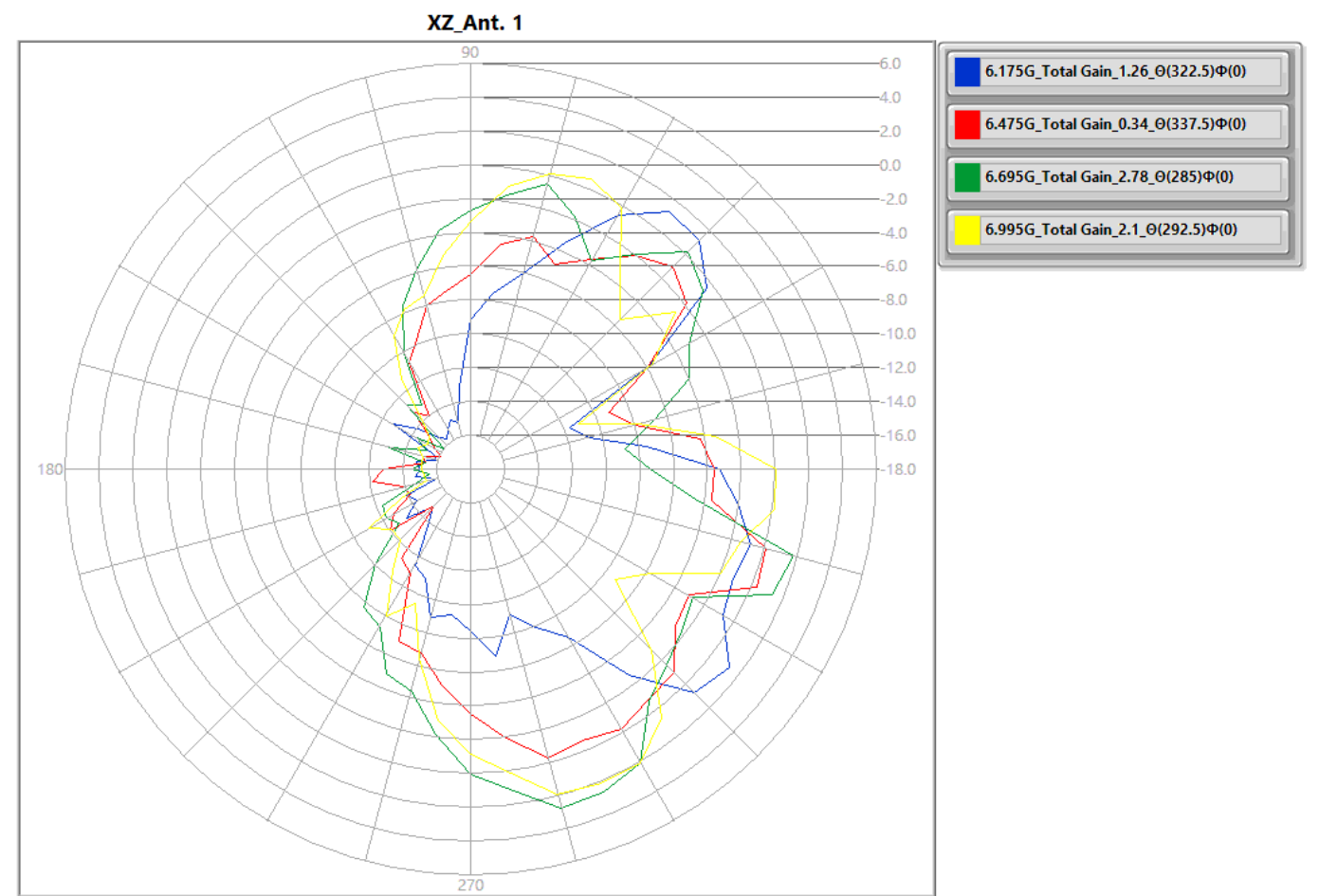
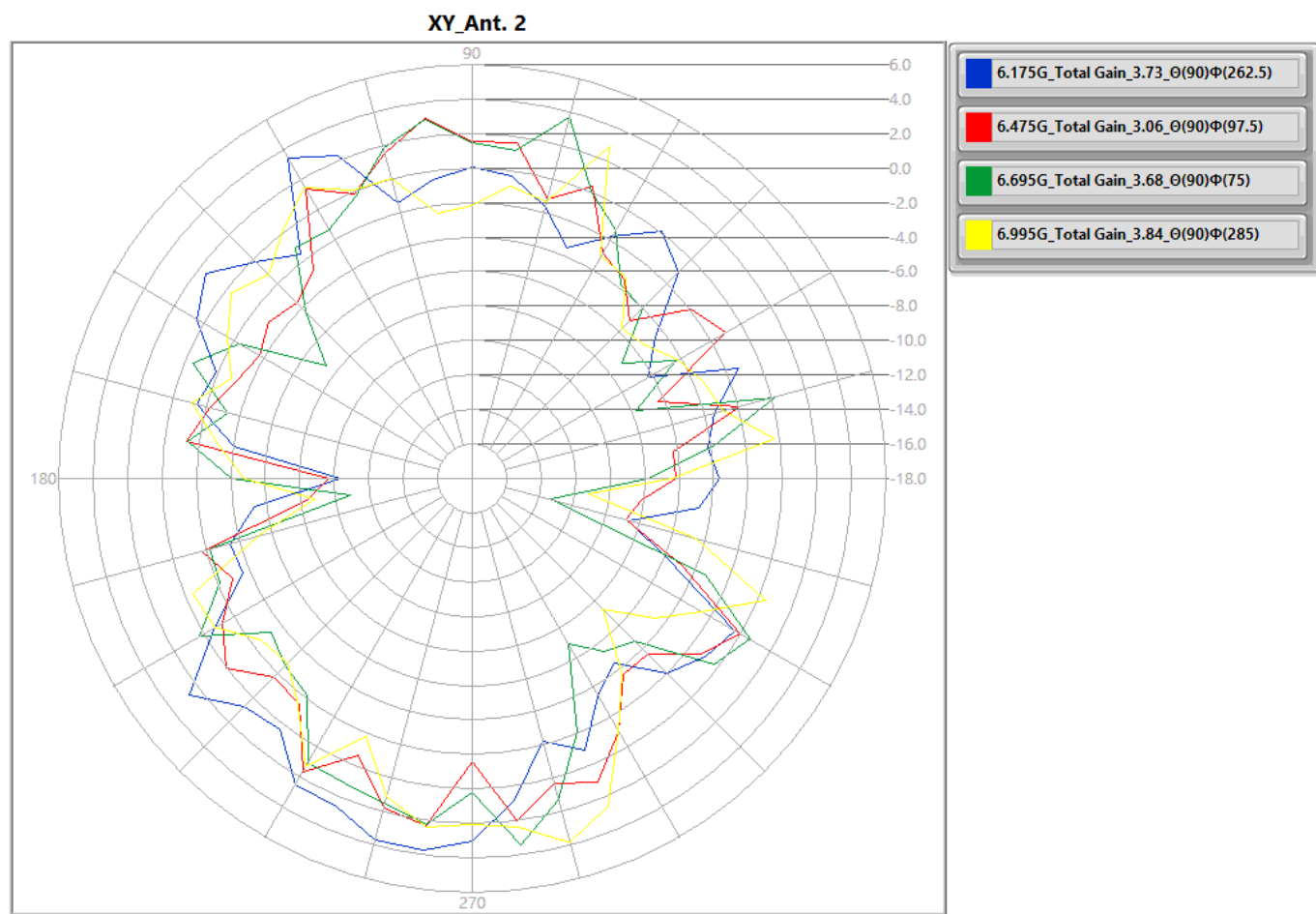
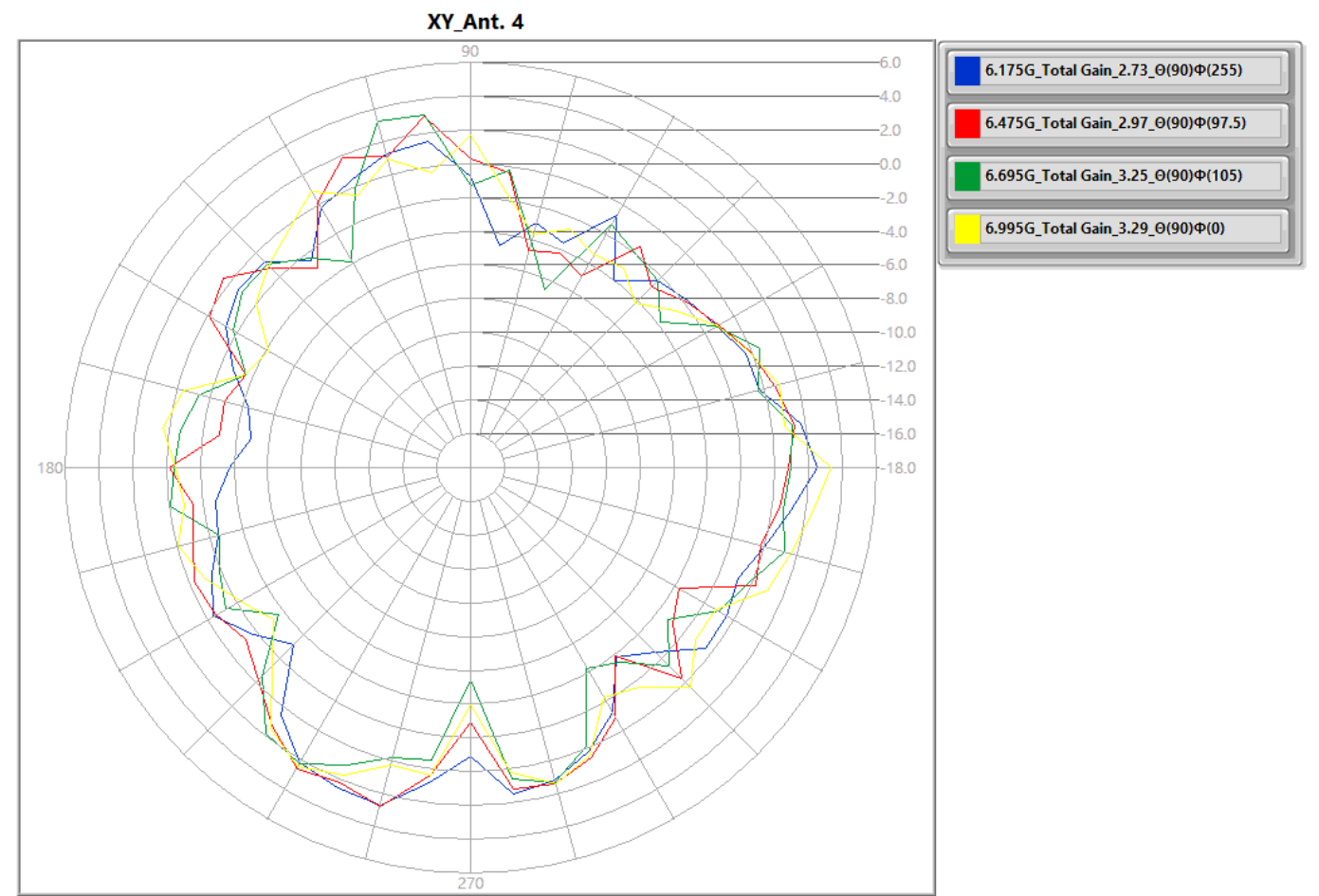
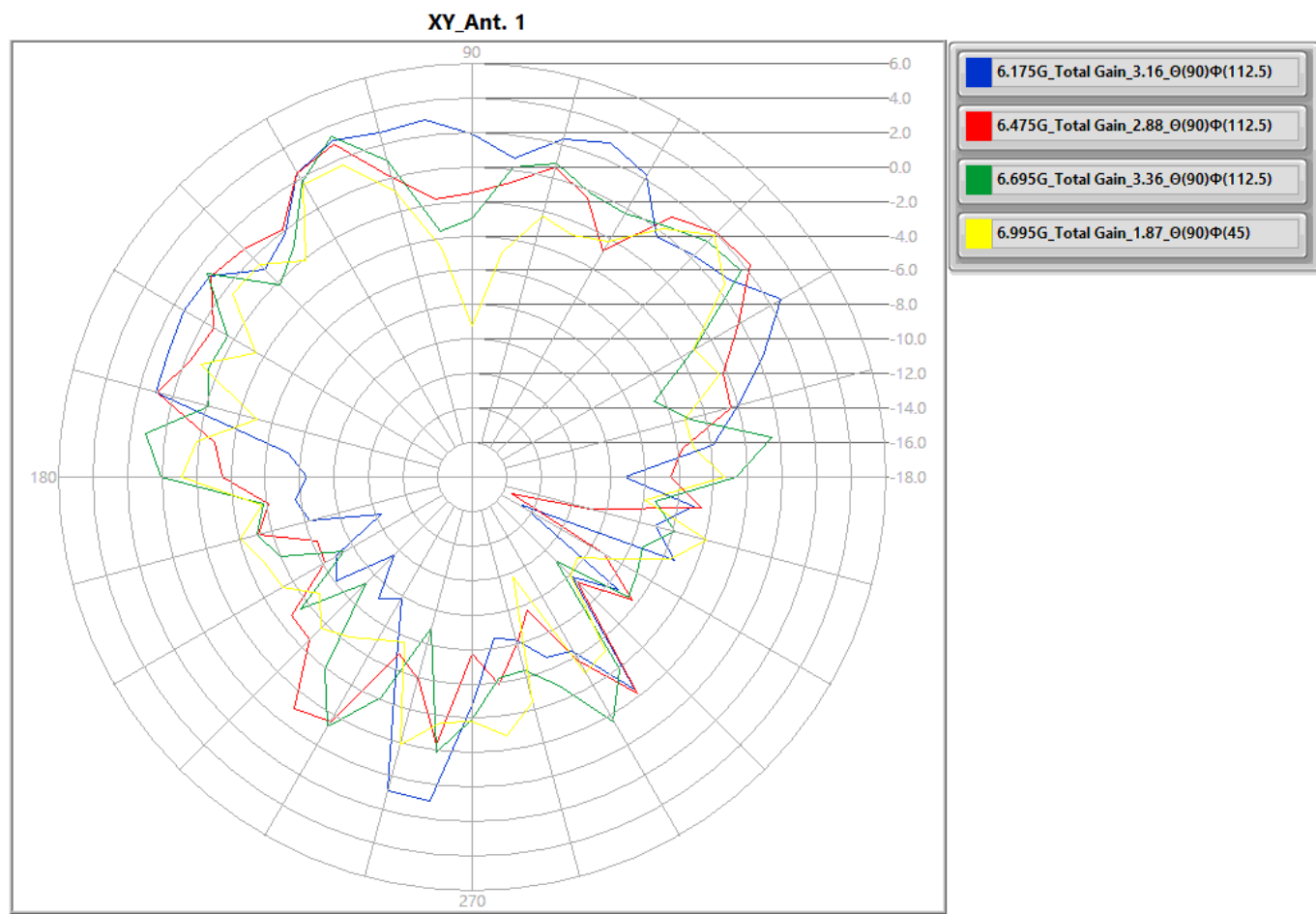


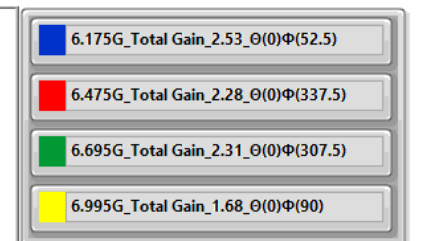
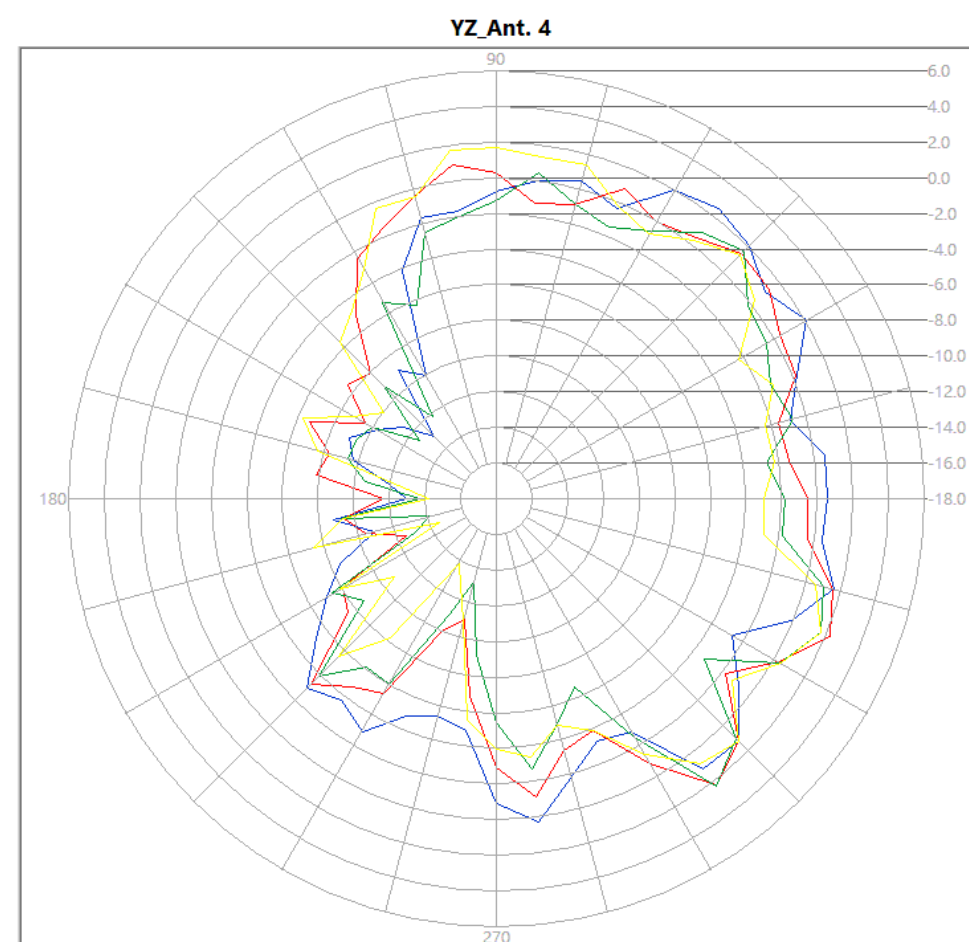
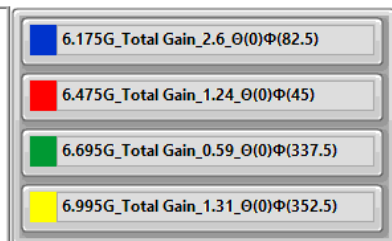
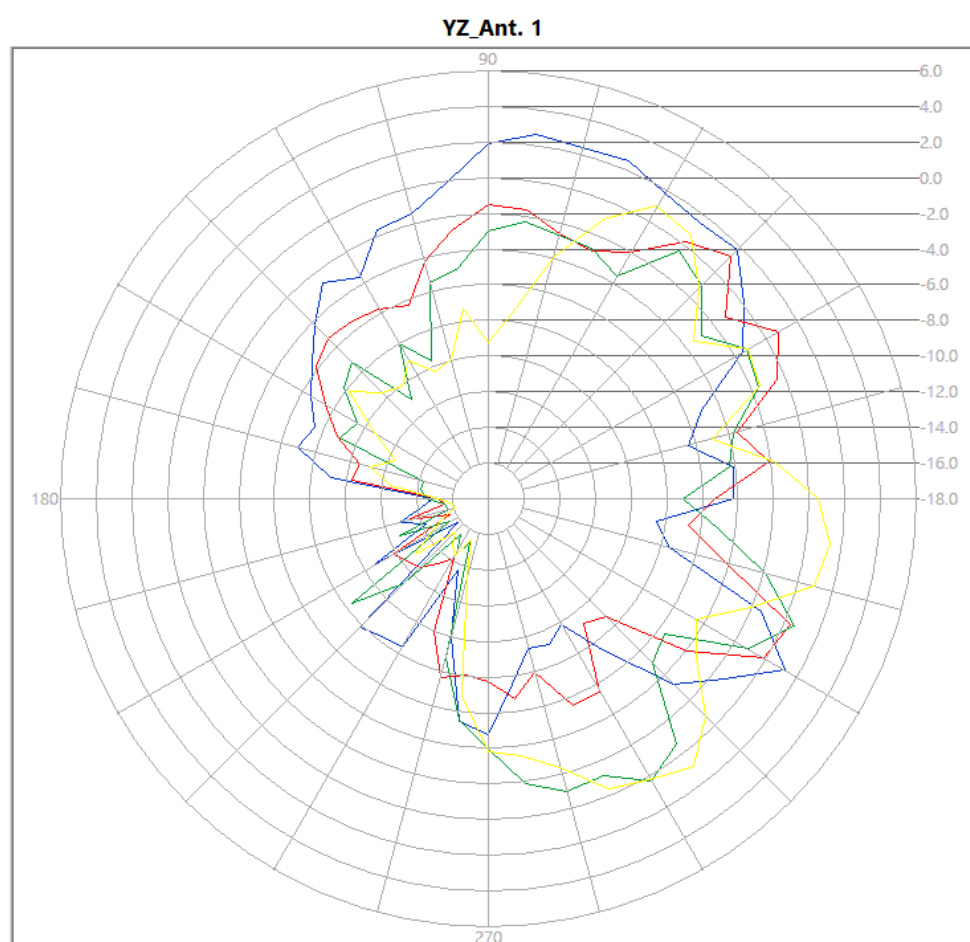
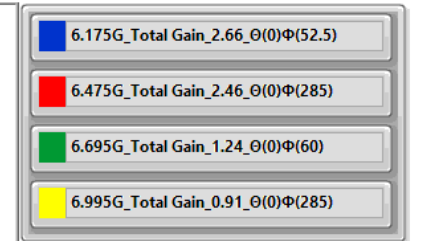
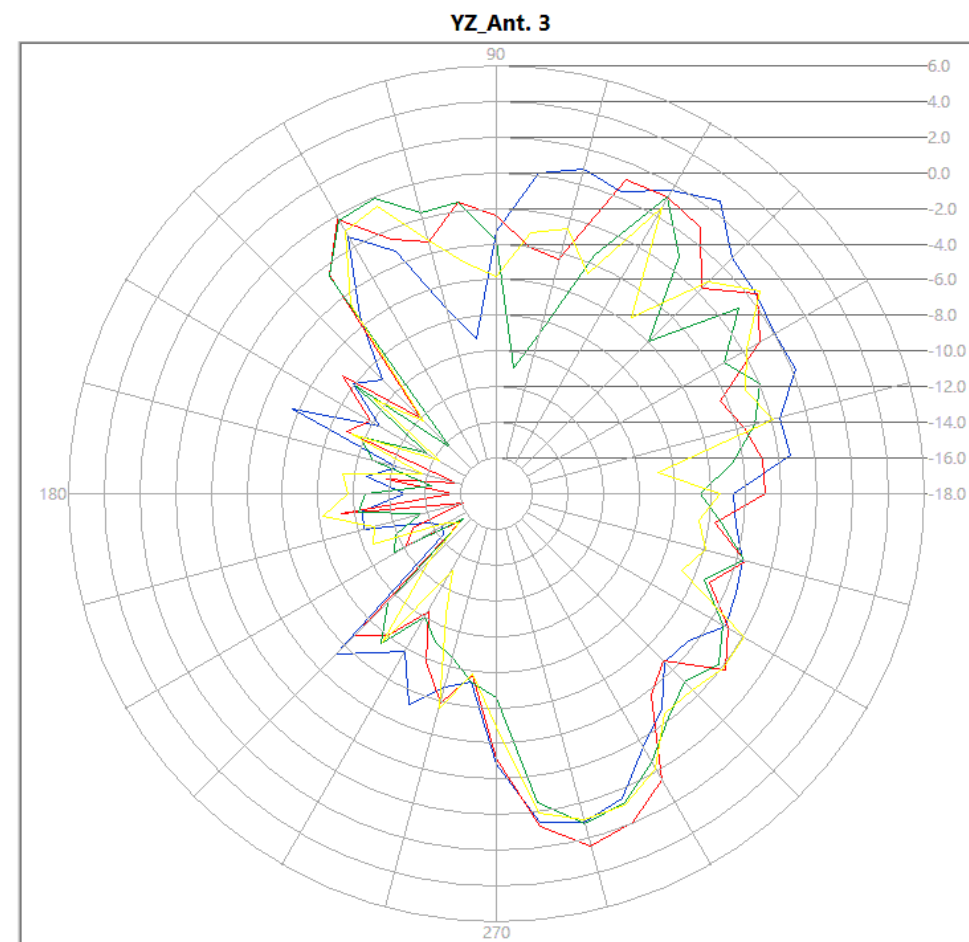
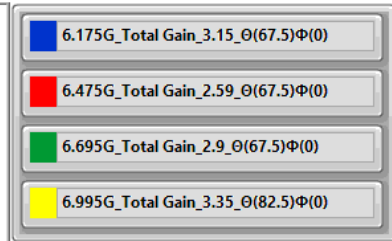
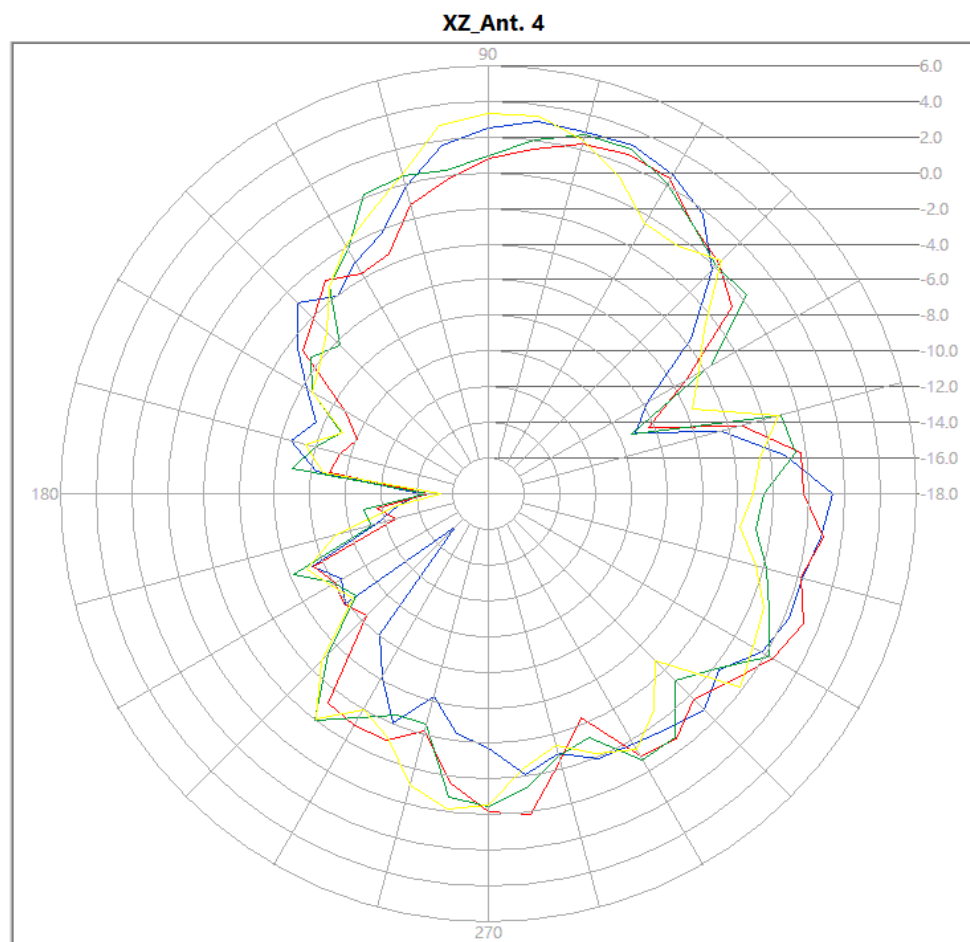
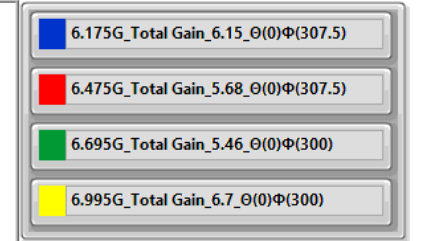
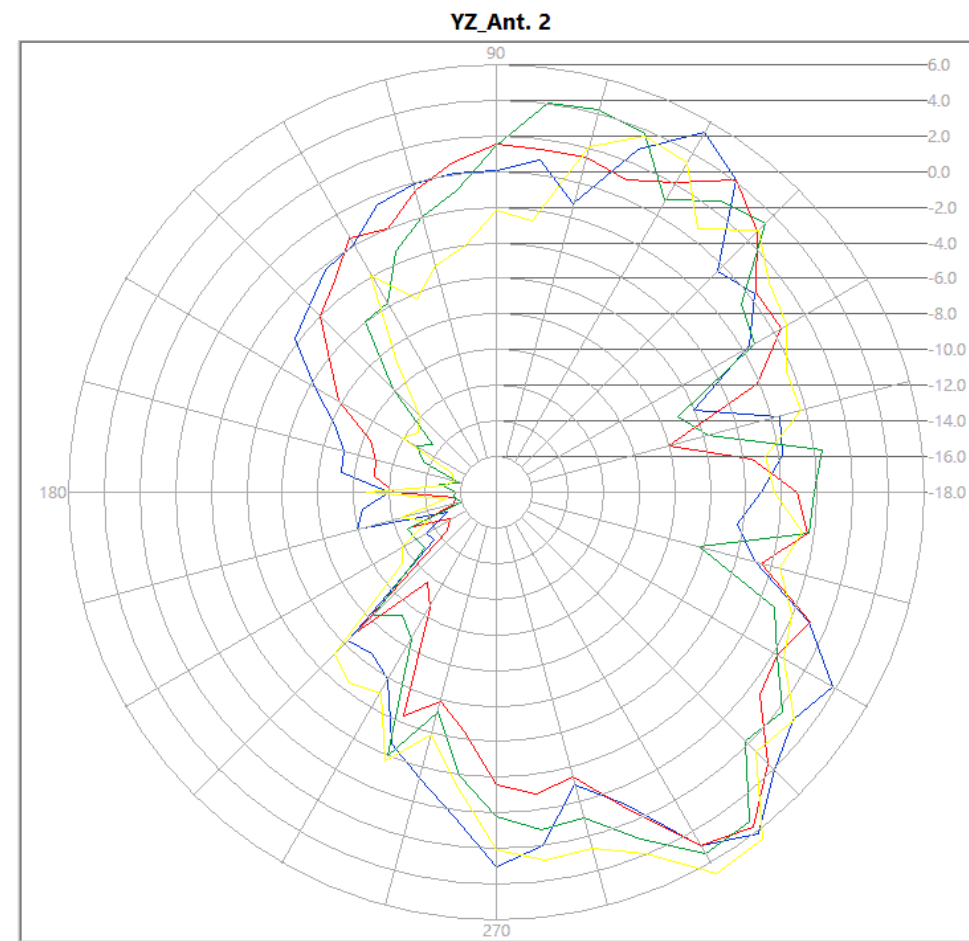
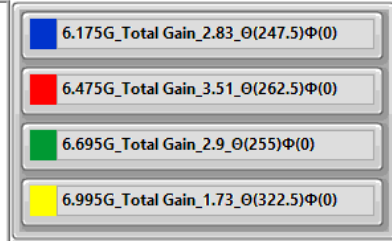
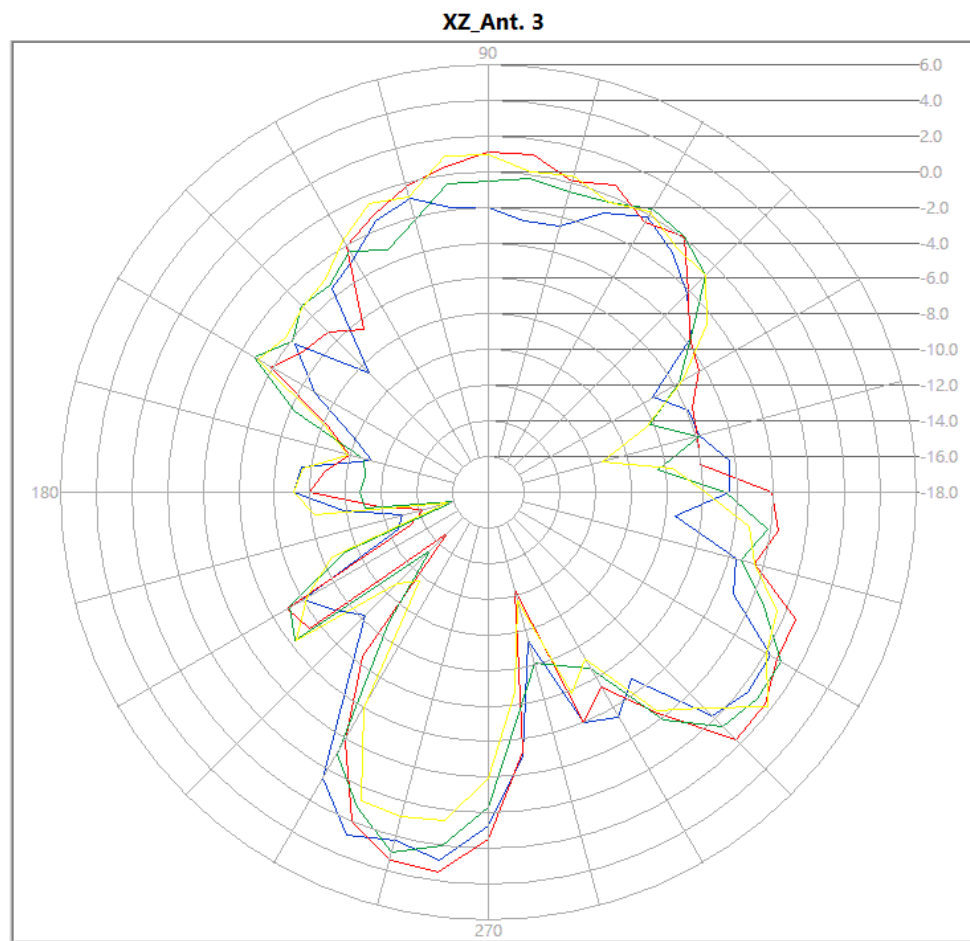
Antenna Pattern_Radio 3 6GHz

Appendix J

Θ(120°)	-3.06/-2.61	-3.29/-4.98	-4.68/-5.42	-4.45/-1.26	-2.33/-4.56	-4.93/-12.10	-10.05/-1.69	-0.40/-4.63	-4.13/-3.67	-4.18/-4.41	-2.22/-3.34	-10.11/-14.52	-6.08/-7.96	-12.27/-2.87	-1.14/-11.15	-2.34/-3.42	-1.25/-3.93	-4.86/-6.42	-2.94/-3.42	-1.24/-2.86	-11.15/-4.36	-7.29/-4.83	-2.01/-3.90	-3.43/-3.23
Θ(127.5°)	-4.04/-2.81	-5.28/-5.76	-5.48/-7.45	-6.20/-3.48	-4.14/-4.35	-8.96/-16.20	-8.92/-3.79	-1.91/-2.18	-6.41/-5.84	-4.49/-3.97	-3.97/-6.56	-6.63/-8.94	-8.03/-4.87	-11.13/-1.83	-0.70/-7.30	-4.88/-1.61	-5.11/-4.33	-5.45/-8.06	-3.72/-5.60	-1.38/-7.34	-11.83/-2.87	-2.82/-7.53	-3.03/-5.17	-3.58/-5.00
Θ(135°)	-2.82/-4.69	-3.81/-4.63	-6.45/-9.93	-5.05/-3.33	-4.89/-5.25	-6.45/-10.49	-13.05/-5.59	-2.67/-4.94	-5.01/-7.83	-6.82/-3.24	-2.92/-8.53	-10.38/-9.69	-15.42/-12.80	-7.74/-4.35	-6.79/-3.58	-2.54/-1.32	-6.33/-4.51	-5.14/-8.81	-3.02/-3.04	-0.08/-6.09	-10.76/-4.44	-3.40/-6.50	-5.77/-4.24	-4.72/-4.67
Θ(142.5°)	-4.56/-4.22	-4.68/-6.05	-8.67/-11.32	-10.65/-8.06	-5.03/-4.18	-5.47/-7.00	-11.40/-10.41	-4.23/-3.51	-6.61/-12.78	-8.25/-14.63	-4.12/-5.79	-6.96/-13.84	-7.87/-9.21	-5.23/-4.96	-4.08/-6.48	-3.31/-7.49	-13.17/-9.03	-7.58/-11.30	-5.22/-5.43	-6.48/-7.08	-13.59/-8.57	-10.81/-8.13	-5.34/-5.26	-4.37/-4.93
Θ(150°)	-6.23/-4.63	-4.79/-5.76	-8.33/-12.10	-9.36/-11.88	-10.79/-6.33	-6.09/-7.58	-10.25/-11.54	-6.38/-3.92	-5.40/-7.12	-8.25/-13.47	-7.11/-5.76	-6.20/-7.60	-8.49/-14.39	-6.22/-4.35	-5.03/-5.71	-8.20/-12.14	-12.22/-8.79	-9.86/-10.71	-6.99/-7.23	-8.14/-8.90	-11.63/-14.57	-8.88/-8.22	-7.06/-6.79	-7.12/-6.56
Θ(157.5°)	-7.57/-6.69	-6.52/-6.69	-7.36/-9.28	-15.18/-14.44	-8.88/-6.40	-7.63/-9.04	-9.08/-10.95	-8.12/-5.29	-5.60/-9.24	-12.16/-7.86	-9.76/-12.85	-11.46/-7.27	-7.30/-10.55	-5.93/-6.20	-9.52/-14.03	-12.36/-12.13	-8.05/-8.51	-10.01/-9.37	-8.55/-8.69	-10.15/-11.69	-9.77/-11.78	-11.74/-11.04	-8.83/-7.17	-8.40/-7.57
Θ(165°)	-6.57/-7.04	-7.50/-7.96	-9.68/-12.61	-13.74/-11.91	-11.98/-14.77	-13.67/-9.31	-9.73/-9.79	-8.82/-8.82	-11.23/-12.00	-9.41/-9.28	-10.96/-12.64	-15.55/-13.53	-11.48/-15.01	-13.45/-9.55	-9.88/-11.29	-9.82/-10.13	-11.83/-10.26	-8.69/-9.03	-10.95/-14.84	-12.31/-10.18	-10.22/-10.96	-9.73/-8.71	-9.36/-11.06	-12.24/-8.35
Θ(172.5°)	-8.26/-7.75	-7.64/-8.20	-8.89/-9.16	-10.47/-11.90	-12.78/-15.32	-15.36/-15.07	-11.92/-10.43	-9.14/-10.85	-10.70/-10.79	-13.06/-15.01	-14.41/-14.56	-14.40/-13.34	-12.93/-13.38	-15.39/-15.60	-15.65/-15.63	-12.62/-9.67	-8.83/-9.41	-9.70/-8.97	-8.81/-9.01	-8.42/-7.93	-7.17/-7.91	-9.01/-9.89	-11.58/-12.04	-11.41/-10.45
Θ(180°)	-14.18/-14.89	-14.37/-12.38	-13.48/-14.85	-13.73/-12.56	-13.64/-14.59	-12.67/-10.92	-12.96/-15.52	-13.44/-11.40	-10.30/-11.49	-12.88/-12.84	-12.04/-12.04	-10.41/-9.74	-9.91/-11.48	-12.79/-12.32	-11.40/-11.32	-11.68/-12.96	-12.88/-11.58	-10.93/-11.67	-12.40/-12.11	-11.46/-13.44	-14.87/-13.82	-13.50/-12.65	-11.99/-12.45	-13.33/-14.25
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°)	-0.32/-0.12	0.35/0.24	0.48/0.52	0.20/-0.01	0.03/-0.15	-0.03/-0.18	-0.53/-1.11	-0.31/-0.41	-0.28/-0.42	-0.70/-0.82	-0.51/-0.57	-0.32/0.04	0.21/-0.03	-0.04/0.26	-0.00/-0.23	-0.19/0.10	0.02/-0.53	-0.60/-0.67	-1.02/-1.21	-1.32/-0.99	-0.78/-1.30	-1.16/-0.97	-0.86/-0.67	-0.66/-0.52
Θ(7.5°)	-0.30/-0.40	-0.45/-0.67	-0.90/-0.90	-0.90/-1.29	-1.53/-1.35	-1.17/-1.58	-1.44/-2.03	-1.98/-1.88	-1.43/-1.09	-0.92/-0.52	-0.04/0.17	0.45/0.58	0.93/-0.09	1.21/0.77	0.22/-0.03	0.08/0.25	0.10/-0.10	0.13/-0.08	-0.39/-0.27	-0.63/-0.54	-0.51/-0.93	-1.29/-1.78	-1.58/-1.13	-0.72/-0.54
Θ(15°)	-3.23/-3.48	-3.61/-3.93	-4.52/-4.63	-4.12/-3.30	-2.36/-2.76	-2.44/-1.59	-1.59/-3.41	-3.66/-2.95	-2.12/-1.08	-0.67/-0.22	0.14/0.11	0.07/0.06	0.13/0.39	0.84/0.65	0.07/-0.52	-0.53/-0.08	0.04/0.16	0.99/-1.63	1.57/-1.42	1.58/-1.16	-0.01/-1.31	-3.47/-5.74	-5.38/-3.87	-3.01/-2.72
Θ(22.5°)	-8.23/-8.98	-8.71/-7.36	-4.97/-2.74	-2.33/-2.88	-1.91/-0.72	-0.98/-1.05	0.14/-0.25	-1.13/-1.45	-0.89/-0.25	-0.21/-0.76	-0.57/-0.58	-0.16/0.81	1.12/0.84	0.85/-1.00	0.77/0.52	-0.07/-0.07	0.60/-1.36	1.64/0.24	2.28/2.20	2.04/-1.61	-2.00/-4.05	-6.74/-6.72	-7.39/-7.52	
Θ(30°)	-5.14/-2.18	-0.58/-0.31	-0.57/-1.47	-2.81/-2.46	-1.17/-0.53	-0.36/-0.10	0.37/-0.09	-1.98/-3.44	-4.45/-2.91	-1.85/-1.99	-1.03/-0.55	0.25/-1.01	0.45/0.64	0.90/0.13	-0.51/-1.01	-1.68/-0.75	-0.78/-1.32	-1.92/-0.67	0.29/-0.39	-0.97/-0.19	-0.44/-1.94	-4.23/-7.45	-7.29/-8.05	-9.16/-8.78
Θ(37.5°)	-0.81/-2.1	2.13/-6.1	0.25/-0.26	-2.40/-2.25	-1.56/-0.06	0.85/0.69	1.32/-1.34	-0.42/-1.47	-0.12/0.62	0.84/0.23	0.49/-0.13	-0.01/-0.09	-0.75/-0.73	-2.01/-3.20	-3.89/-2.96	-0.61/-0.62	-0.85/-1.79	-2.74/-2.50	-1.83/-2.99	-4.67/-4.35	-3.17/-1.97	-2.45/-5.66	-4.79/-2.62	-2.02/-1.51
Θ(45°)	0.30/0.45	0.50/-0.07	0.47/-2.35	-2.83/-1.11	0.25/-1.33	1.92/-1.66	1.49/-1.99	1.53/-1.51	1.15/0.65	-0.04/-0.80	-0.56/-1.40	-1.46/-1.89	-1.69/-2.49	-2.36/-1.53	-2.87/-1.50	0.74/-1.17	0.74/-1.30	1.99/-1.89	1.19/0.16	-2.13/-4.26	-1.32/-1.81	-2.93/-4.63	-5.90/-4.65	-3.63/-0.72
Θ(52.5°)	0.95/0.62	-0.06/0.28	0.38/-1.31	-2.25/-1.65	-0.59/0.58	1.28/-1.51	0.45/0.43	0.87/-0.34	-0.39/-0.34	-0.76/0.15	-0.28/-2.54	-2.88/-1.53	-0.65/-1.53	-2.40/-0.03	0.11/0.57	1.34/0.78	0.98/2.50	2.96/2.59	2.21/-2.23	-1.18/-1.54	-0.77/-1.90	-1.95/-2.90	-3.88/-4.48	-2.07/0.26
Θ(60°)	2.42/-1.08	-0.23/-0.42	-1.01/-2.88	-5.80/-6.99	-4.75/-1.58	-0.40/-0.96	-0.09/-0.50	-0.44/-1.16	-2.50/-2.02	-0.88/-0.16	-1.02/-3.27	-4.19/-3.07	-0.98/-2.74	-4.65/-2.73	-0.91/-1.54	-0.82/-1.55	-0.18/-0.20	-0.82/-2.07	-2.23/-5.39	-2.64/-2.48	-0.17/-1.55	-1.93/-0.58	0.22/2.28	
Θ(67.5°)	2.59/2.03	1.71/-0.09	-2.39/-6.54	-8.59/-8.55	-4.23/-6.50	-2.61/-0.95	-0.82/-1.56	-0.34/-0.15	-2.11/-2.33	-3.22/-3.92	-5.38/-5.34	-4.68/-4.22	-4.40/-5.17	-3.50/-3.99	-5.19/-3.15	-3.14/-4.08	-6.45/-5.48	-6.44/-5.18	-3.91/-0.84	0.14/-4.71	-1.35/-2.84	-1.04/-1.47	-1.67/0.42	2.78/-3.2
Θ(75°)	2.30/-1.89	1.60/0.14	-2.39/-4.50	-3.97/-4.16	-4.77/-4.48	-0.49/-2.21	-0.96/3.08	2.66/0.92	-0.10/-2.80	-2.69/-3.05	-3.94/-4.29	-3.82/-3.26	-2.45/-2.38	-0.79/-1.83	-2.65/-2.92	-4.41/-4.47	-1.73/-2.04	-3.29/-2.16	-3.36/0.06	0.43/-0.72	-3.85/-2.64	-0.61/-1.11	-1.66/0.29	2.97/3.05
Θ(82.5°)	1.482/-1.0	1.86/0.68	-1.15/-2.51	-4.00/-2.75	-4.12/-3.31	-2.15/-1.81	-1.28/2.67	2.84/-1.4	-0.16/-2.20	-1.93/-1.20	-0.97/-2.29	-4.12/-4.96	0.13/0.34	1.12/-1.49	-1.18/-1.46	-1.17/-2.05	1.64/-1.98	2.29/0.09	-1.15/2.14	1.31/-1.67	-3.72/-3.21	0.14/-2.70	-1.99/-0.25	1.14/-2.19
Θ(90°)	0.79/-1.36	0.60/-0.07	-1.12/-1.88	-2.88/-1.50	-4.91/-4.28	-4.68/-0.39	0.28/-2.97	1.06/-1.86	0.11/-3.14	-1.30/-0.46	-0.16/-3.84	-2.89/-3.01	-0.15/-1.40	-1.02/-0.30	-0.60/-1.22	-0.27/-1.30	2.56/2.21	2.74/0.38	-2.94/-2.22	1.36/0.60	-0.83/-3.92	-0.32/-2.90	-3.78/0.26	-0.26/0.44
Θ(97.5°)	-0.23/-0.22	-0.95/-1.29	-1.55/-1.55	-4.16/-1.65	-5.93/-3.18	-5.78/-1.88	0.85/2.77	0.35/0.47	-0.39/-4.30	-1.52/0.08	-0.95/-3.08	-4.27/-4.23	-1.69/-3.61	-2.09/-2.80	-1.42/-2.83	-2.79/-1.17	1.65/0.31	-0.87/-0.99	-6.85/-1.38	-0.84/-1.35	-2.81/-3.42	-0.87/-1.90	-3.89/-0.93	-0.87/-0.53
Θ(105°)	-1.20/-2.26	-2.17/-3.28	-2.95/-2.71	-3.80/-4.22	-6.53/-2.76	-6.32/-3.13	-0.35/2.62	-0.36/-0.14	0.34/-5.80	-1.77/0.21	-2.44/-2.90	-4.26/-4.00	-4.21/-9.16	-1.96/-4.11	-1.22/-2.92	-2.49/-2.07	0.26/-2.62	-3.95/-2.12	-10.98/-3.04	-1.16/-1.86	-2.78/-4.83	-1.54/-3.15	-4.59/-1.13	-0.53/-0.70
Θ(112.5°)	-3.44/-3.17	-1.88/-3.32	-4.67/-5.41	-2.81/-4.25	-1.52/-6.13	-5.22/-2.47	-1.05/2.17	-2.17/-1.05	-2.65/-3.38	-2.73/-0.92	-2.31/-0.43	-9.11/-7.15	-3.07/-5.56	-3.74/-2.43	-0.17/-3.83	-2.97/-1.19	-0.09/-3.14	-4.54/-3.17	-9.98/-2.59	-1.57/-0.09	-6.84/-3.58	-2.92/-2.90	-2.09/-3.40	-0.51/-0.58
Θ(120°)	-3.79/-3.19	-3.27/-3.55	-6.71/-4.95	-5.57/-4.13	-3.82/-3.33	-8.16/-5.65	-2.43/-0.67	-1.93/0.63	-4.75/-6.06	-4.11/-1.27	-1.52/-3.57	-15.81/-10.02	-2.99/-7.83	-5.44/-2.26	0.17/-3.93	-1.86/-3.13	-2.74/-7.07	-5.68/-6.53	-5.36/-3.82	-1.92/-2.48	-6.59/-4.99	-3.91/-3.45	-3.42/-3.17	-0.68/-1.17
Θ(127.5°)	-2.95/-2.85	-2.86/-4.33	-6.27/-8.63	-6.04/-3.15	-2.53/-5.21	-6.22/-9.73	-5.07/-1.57	-0.62/-1.16	-3.17/-8.27	-2.37/-2.59	-1.90/-2.73	-8.45/-7.88	-3.18/-4.53	-8.29/-0.18	1.23/-8.06	-3.55/-3.37	-1.89/-4.60	-6.02/-7.74	-4.74/-6.62	-2.13/-4.77	-8.83/-2.25	-3.65/-3.13	-2.40/-5.16	-1.75/-5.15
Θ(135°)	-4.17/-5.00	-4.16/-4.60	-6.09/-10.72	-9.39/-5.05	-3.15/-3.27	-4.91/-10.32	-8.02/-4.37	-1.11/-2.32	-4.92/-7.68	-6.42/-5.56	-2.44/-4.90	-14.52/-10.19	-8.30/-7.21	-11.45/-2.16	-5.62/-2.49	-3.06/-1.24	-6.22/-5.17	-5.76/-7.15	-3.34/-3.35	-0.09/-5.92	-9.25/-3.57	-3.99/-8.75	-3.18/-6.12	-3.16/-4.38
Θ(142.5°)	-4.86/-5.73	-3.96/-4.27	-8.06/-12.51	-8.93/-6.13	-5.21/-4.25	-6.37/-10.91	-7.52/-5.49	-4.50/-0.87	-4.18/-9.93	-9.46/-4.58	-3.19/-3.90	-7.53/-8.81	-7.81/-6.42	-7.79/-4.39	-2.45/-4.29	-3.86/-8.51	-15.50/-9.64	-8.10/-13.86	-7.47/-7.68	-6.88/-11.89	-6.37/-8.82	-8.98/-6.92	-4.14/-6.09	-4.27/-5.93
Θ(150°)	-8.73/-6.42	-4.35/-4.36	-7.34/-12.61	-14.86/-9.20	-6.51/-5.49	-7.14/-7.60	-9.49/-9.71	-7.27/-4.71	-4.13/-6.21	-7.60/-11.24	-9.49/-4.94	-5.34/-6.32	-8.03/-12.57	-6.47/-9.41	-4.66/-4.76	-6.74/-12.35	-13.43/-9.22	-8.13/-10.90	-8.07/-6.60	-6.35/-7.70	-14.42/-13.42	-9.79/-7.71	-6.69/-7.63	-6.66/-7.81
Θ(157.5°)	-10.00/-8.89	-7.65/-7.34	-6.96/-9.62	-15.37/-15.08	-9.77/-6.68	-6.34/-6.95	-6.68/-9.63	-8.92/-4.60	-3.32/-5.78	-11.50/-10.26	-8.38/-11.39	-9.98/-7.27	-7.41/-9.49	-5.07/-5.82	-9.77/-14.09	-13.47/-8.25	-7.93/-10.16	-11.33/-13.35	-12.55/-14.18	-16.00/-15.32	-15.82/-13.15	-11.02/-9.75	-7.06/-8.66	-14.37/-11.11
Θ(165°)	-9.38/-9.33	-8.54/-8.15	-8.49/-7.90	-8.33/-10.03	-10.23/-11.33	-10.83/-8.85	-8.34/-9.49	-10.05/-8.22	-7.62/-8.62	-9.76/-8.28	-9.70/-12.84	-13.57/-13.25	-12.58/-13.85	-14.92/-10.11	-9.31/-9.93	-7.49/-7.66	-10.80/-10.19	-7.49/-7.66	-10.41/-11.57	-11.62/-13.05	-13.78/-11.03	-8.51/-7.17	-8.00/-12.20	-11.42/-10.37
Θ(172.5°)	-9.02/-8.95	-9.91/-11.34	-9.76/-8.22	-8.31/-9.45	-9.28/-8.68	-9.96/-10.20	-7.84/-6.66	-6.25/-6.87	-7.68/-9.07	-10.56/-11.96	-14.14/-13.49	-12.07												

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







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Antenna Pattern_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix K

Θ(22.5°)	-1.07/-1.76	-1.17/-0.18	0.90/1.62	1.400/78	0.480/45	0.88/1.52	1.69/2.04	2.54/2.75	2.21/1.17	-0.12/-0.81	-0.84/-1.11	-1.53/-1.68	-1.33/-0.79	-0.83/-1.17	-1.89/-2.17	-1.46/-0.51	0.120/49	0.51/-0.07	-0.86/-1.59	-1.91/-2.26	-2.40/-2.55	-2.57/-1.98	-1.56/-0.84	-0.71/-0.61
Θ(30°)	-0.36/-1.83	-2.52/-0.43	1.31/2.00	1.96/0.94	-0.69/-1.67	-1.34/-0.84	-0.77/-0.28	1.05/2.15	2.27/1.85	1.75/-1.65	1.59/-157	1.73/-1.78	1.66/2.18	2.43/-61	0.17/-1.04	-0.86/0.14	1.40/2.43	2.54/-1.44	0.19/-0.54	-0.33/-0.35	0.63/-0.28	-2.11/-3.53	-4.22/-2.78	-1.14/-0.15
Θ(142.5°)	0.30/-1.99	-5.11/-2.97	-2.40/-2.88	-1.42/-0.94	-1.06/-1.24	-1.26/-1.31	-0.78/-0.92	2.48/2.22	0.89/-1.17	0.49/1.90	2.43/2.64	2.83/2.19	1.71/1.98	1.13/-1.05	0.28/-1.04	0.82/1.07	2.10/3.20	2.39/-1.14	1.35/-1.09	0.67/-1.10	1.67/0.93	-1.99/-5.30	-5.50/-3.35	-1.29/0.00
Θ(45°)	0.97/-1.59	-3.52/-5.24	-7.23/-7.61	-4.99/-3.03	-2.34/-1.24	-0.13/0.57	1.64/2.83	3.86/3.88	2.20/1.31	0.83/-0.13	0.86/1.90	2.52/2.76	1.19/-0.14	-1.47/-6.20	-4.48/-0.63	-0.39/-0.66	1.29/2.29	0.92/-0.02	0.19/0.22	1.68/3.62	4.08/3.16	1.33/-0.66	-0.49/-0.25	-0.62/0.52
Θ(52.5°)	-0.76/-1.73	0.89/0.01	-3.62/-3.19	-2.23/-2.25	-3.48/-0.75	0.93/1.79	2.63/2.89	3.43/3.79	2.99/3.11	2.04/0.00	1.44/2.32	0.86/1.43	0.70/-1.32	-2.38/-6.32	-5.22/0.04	-1.78/-1.65	0.95/1.54	0.48/-1.32	-1.65/0.95	1.76/3.16	3.65/2.59	1.50/-0.57	0.31/0.53	0.15/-1.23
Θ(60°)	0.89/0.77	3.31/2.24	-0.93/0.50	-0.16/-1.77	-0.77/1.27	2.58/2.94	2.84/2.89	1.60/1.66	0.37/-1.35	-0.65/0.93	1.02/0.47	-0.09/-4.71	-3.25/-4.66	-3.94/-1.45	-2.12/-2.32	-0.90/0.15	1.09/-1.21	-2.65/0.90	0.03/0.66	2.66/2.16	1.63/-1.47	1.21/0.60	0.40/-1.24	
Θ(67.5°)	1.71/1.86	3.97/2.11	0.12/0.48	-0.29/-0.46	2.76/1.98	2.23/2.43	1.22/1.88	1.13/0.63	-1.81/-1.77	-4.82/-0.92	-0.15/-0.54	0.64/-1.34	-2.79/-6.07	-4.35/-4.93	-2.48/1.51	-2.93/-1.51	-1.73/-0.73	1.22/-1.58	-1.70/-0.36	-1.76/0.98	1.59/0.21	0.24/-3.66	0.27/0.30	-0.37/-1.44
Θ(75°)	0.73/0.64	2.44/-1.33	1.24/0.55	-1.12/0.40	4.05/-1.18	-0.06/1.53	0.11/0.94	-0.12/-0.26	-1.65/-3.63	-1.11/-3.15	-1.20/-1.57	-0.53/-2.18	-2.95/-5.35	-6.66/-5.66	-2.55/-1.41	-1.55/-1.92	0.69/-2.36	-1.88/-1.09	-1.25/0.30	0.73/-1.49	-2.84/-5.62	-0.66/-1.15	-1.04/-1.13	
Θ(82.5°)	-0.32/0.26	1.10/-0.18	0.77/-0.15	-2.13/0.68	4.04/0.67	-1.72/0.59	-1.16/-0.25	-1.31/-0.40	-1.41/-5.43	-15.03/-4.07	-2.67/-1.92	-2.07/-3.54	-2.83/-4.76	-7.88/-6.43	-1.70/-0.12	-3.06/-1.57	-2.25/-1.41	0.05/-1.73	-1.87/-0.28	0.03/0.87	-1.59/-1.68	-5.91/-6.19	-2.03/-2.30	-1.51/-1.76
Θ(90°)	-2.79/-2.55	-0.34/-1.87	0.05/-0.08	-3.08/-1.07	2.65/0.04	-3.65/-1.37	-3.10/-2.61	-3.22/-1.32	-2.04/-5.74	-15.97/-6.25	-4.25/-5.20	-3.34/-5.69	-2.97/-4.49	-9.74/-8.17	-3.41/-2.00	-4.89/-2.64	-2.91/-2.93	-0.96/-1.63	-2.37/-0.12	0.17/0.53	1.91/0.14	-7.18/-7.25	-3.73/-5.73	-2.03/-2.64
Θ(97.5°)	-4.91/-5.60	-4.30/-4.21	-0.29/-1.21	-4.89/-2.13	1.11/-1.42	-4.64/-2.26	-4.32/-3.61	-5.87/-2.92	-1.05/-4.66	-15.49/-4.70	-6.88/-10.16	-5.54/-6.24	-3.82/-5.29	-11.39/-7.47	-3.45/-3.38	-6.56/-2.76	-3.20/-4.71	-4.78/-2.90	-4.39/-0.88	-1.90/-2.00	1.53/-0.27	-7.72/-5.83	-6.60/-8.06	-3.97/-4.53
Θ(105°)	-6.57/-9.32	-6.66/-4.68	-0.93/-5.30	-3.62/-2.00	-0.41/-4.70	-6.74/-3.08	-6.55/-4.86	-6.09/-4.42	-3.05/-0.54	-10.63/-9.07	-6.72/-8.35	-0.37/-0.07	-5.38/-6.29	-13.10/-10.74	-4.64/-6.36	-7.36/-2.17	-2.83/-5.57	-11.44/-6.85	-7.69/-3.45	-3.88/-7.40	-0.17/-1.40	-6.99/-5.57	-11.13/-12.22	-4.74/-6.16
Θ(112.5°)	-6.93/-9.56	-6.30/-4.68	-1.82/-6.75	-4.24/-1.40	-1.19/-6.83	-10.48/-4.71	-9.62/-10.02	-7.27/-4.97	-2.89/-5.96	-9.61/-15.50	-5.88/-6.75	-11.04/-12.69	-7.46/-9.29	-15.92/-11.43	-6.90/-7.96	-7.75/-4.88	-2.33/-5.91	-13.01/-8.16	-8.91/-4.77	-3.58/-5.63	-2.59/-3.50	-6.91/-11.46	-12.07/-11.08	-5.75/-8.67
Θ(120°)	-7.73/-12.23	-9.47/-6.70	-4.50/-4.95	-3.55/-3.13	-4.26/-7.67	-7.47/-3.61	-8.16/-10.74	-8.06/-10.95	-4.83/-5.38	-5.74/-9.29	-8.77/-6.52	-10.71/-13.59	-5.37/-7.56	-11.77/-14.25	-9.19/-8.20	-8.86/-9.35	-3.82/-5.50	-8.29/-7.54	-4.33/-0.78	-4.22/-8.33	-7.28/-9.70	-12.72/-8.90	-6.25/-9.96	
Θ(127.5°)	-12.73/-9.75	-6.70/-3.49	-6.38/-4.58	-4.71/-7.87	-7.40/-5.99	-11.42/-11.37	-8.51/-10.91	-4.36/-3.81	-6.89/-8.57	-14.40/-12.76	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	-12.30/-13.44	-5.32/-9.71	
Θ(135°)	-14.58/-10.06	-8.08/-7.53	-6.07/-7.81	-7.34/-6.33	-7.55/-8.07	-10.32/-10.40	-12.78/-14.22	-7.66/-8.62	-9.60/-4.91	-8.01/-9.00	-10.02/-12.24	-12.54/-10.81	-6.78/-8.22	-13.61/-14.85	-11.65/-9.98	-9.13/-11.50	-8.73/-10.73	-15.07/-14.06	-16.00/-15.38	-11.47/-8.98	-14.52/-6.98	-7.33/-14.67	-12.44/-10.77	-10.65/-11.09
Θ(142.5°)	-11.31/-7.24	-7.70/-5.75	-6.26/-6.90	-6.90/-8.66	-12.18/-10.95	-9.24/-9.68	-12.97/-13.74	-11.63/-11.84	-13.13/-9.82	-4.88/-6.57	-11.70/-9.97	-8.59/-9.81	-13.20/-13.55	-10.70/-9.80	-4.30/-4.38	-6.56/-2.76	-3.20/-4.71	-4.78/-2.90	-4.39/-0.88	-1.90/-2.00	1.53/-0.27	-7.72/-5.83	-6.60/-8.06	-3.97/-4.53
Θ(150°)	-13.50/-10.36	-12.61/-13.90	-9.79/-10.62	-10.79/-12.41	-12.91/-12.67	-9.73/-8.08	-10.40/-14.99	-10.48/-8.32	-9.79/-12.21	-11.45/-8.73	-8.26/-10.65	-8.82/-8.99	-11.20/-14.91	-11.39/-10.66	-15.73/-14.69	-13.88/-10.24	-10.21/-13.75	-16.00/-14.69	-13.45/-14.84	-13.63/-7.84	-6.69/-8.72	-11.19/-8.25		
Θ(157.5°)	-9.31/-8.80	-9.10/-13.67	-14.14/-10.35	-9.77/-10.80	-12.60/-14.14	-10.78/-10.40	-12.12/-12.38	-9.88/-9.11	-9.77/-10.39	-11.31/-14.86	-14.01/-13.18	-10.27/-9.00	-10.52/-9.91	-10.68/-11.99	-12.79/-13.86	-13.10/-15.40	-14.74/-14.81	-14.79/-15.27	-15.46/-14.83	-12.88/-11.48	-10.46/-12.76	-12.90/-9.56	-9.12/-12.14	-11.69/-9.06
Θ(165°)	-15.72/-14.07	-12.00/-11.99	-13.48/-14.34	-14.39/-11.96	-9.55/-8.36	-7.87/-9.35	-12.23/-11.50	-10.03/-10.66	-11.62/-12.64	-13.05/-14.38	-12.43/-10.82	-9.50/-10.13	-11.65/-15.45	-15.45/-15.38	-14.37/-15.18	-15.75/-12.79	-12.86/-14.03	-12.93/-12.92	-13.42/-15.95	-13.44/-13.27	-10.63/-9.45	-10.15/-14.34	-15.62/-15.58	-15.93/-15.27
Θ(172.5°)	-15.72/-15.24	-15.63/-13.41	-10.16/-8.70	-8.56/-9.22	-9.66/-9.76	-10.35/-12.42	-13.95/-15.10	-15.41/-14.56	-14.62/-13.90	-14.38/-14.96	-15.53/-16.11	-14.86/-12.01	-14.00/-12.91	-12.19/-13.23	-13.90/-12.78	-14.56/-15.20	-14.93/-15.66	-15.34/-15.39	-14.43/-14.70	-14.58/-14.69	-14.49/-13.15	-12.66/-12.94	-15.19/-15.24	
Θ(180°)	-12.04/-12.29	-13.72/-12.69	-14.12/-14.98	-15.22/-15.12	-15.68/-15.40	-15.57/-15.67	-15.31/-15.70	-15.58/-14.64	-14.13/-13.94	-13.63/-13.70	-12.27/-12.59	-12.24/-12.49	-13.14/-12.95	-11.82/-11.61	-11.71/-11.78	-11.20/-11.53	-12.12/-12.46	-15.08/-14.82	-15.04/-14.86	-13.80/-10.53	-9.81/-10.70	-11.93/-11.18	-11.17/-12.38	-12.59/-12.36
Freq(Hz)	6.175GPol.	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°)	1.61/1.71	1.78/1.73	1.91/1.97	2.05/2.14	2.20/2.26	2.33/2.38	2.46/2.52	2.63/2.47	2.53/2.43	2.03/1.96	2.06/2.36	2.27/2.09	1.77/1.72	1.95/2.04	2.18/2.15	1.91/1.82	1.62/1.63	1.59/1.53	1.72/1.83	1.72/1.78	1.61/1.50	1.52/1.26	1.22/1.34	1.54/1.50
Θ(7.5°)	0.02/0.00	-0.08/-0.24	-0.42/0.01	0.17/0.14	0.25/0.41	0.33/0.08	0.04/0.24	0.46/0.61	0.75/0.74	0.51/0.52	0.87/1.13	1.19/0.99	0.91/1.35	1.79/2.15	2.51/2.49	2.38/2.37	2.48/2.60	2.59/2.48	2.33/2.26	1.94/1.65	1.21/0.77	0.59/0.35	0.03/0.00	-0.04/-0.17
Θ(15°)	-2.21/-2.00	-1.44/-0.77	-0.43/-0.16	0.63/1.28	1.76/2.05	2.30/1.67	1.23/0.94	0.39/-0.39	-0.93/-1.32	-1.64/-1.81	-2.01/-2.09	-2.20/-1.47	-0.71/0.07	0.58/0.77	0.94/0.59	0.70/1.27	2.13/2.92	3.32/2.28	3.09/2.62	1.94/1.17	0.48/-0.54	-1.66/-2.20	-2.31/-2.25	-2.24/-2.37
Θ(22.5°)	0.09/-0.08	-0.64/-0.49	0.29/0.53	0.58/0.48	0.72/0.97	0.79/0.41	0.48/0.73	0.94/0.80	0.50/0.10	-0.05/0.31	0.47/0.84	0.86/1.22	1.77/2.58	3.33/3.64	3.63/2.90	1.80/1.23	1.57/2.10	2.19/2.01	1.66/1.28	0.54/0.02	-0.15/0.08	-0.12/-0.62	-1.20/-1.92	-1.50/-0.69
Θ(30°)	-0.33/0.67	0.51/0.33	1.18/1.47	0.37/0.73	-0.62/-0.28	-0.52/-0.25	1.54/2.79	3.23/2.57	1.81/1.66	1.97/2.50	2.61/2.42	1.91/1.13	0.12/0.25	1.77/2.91	3.49/3.28	2.26/1.14	0.71/1.07	1.41/1.34	1.08/0.70	0.58/0.62	0.23/-1.14	-1.95/-2.28	-2.66/-2.73	-2.47/-1.57
Θ(37.5°)	-1.40/-0.70	-0.65/-1.42	-0.33/-0.30	-1.06/-1.67	-1.50/-1.35	-1.68/-0.92	1.17/2.67	3.18/2.46	2.43/0.09	3.43/3.47	3.28/2.85	2.04/0.65	-0.85/-1.54	-0.12/0.54	0.01/0.65	1.07/0.68	0.36/1.04	1.97/1.49	0.32/0.72	1.56/2.13	2.63/1.79	-0.22/-2.74	-4.55/-3.51	-2.39/-1.62
Θ(45°)	-1.04/-0.66	-1.75/-5.10	-3.08/-2.89	-3.83/-4.11	-2.88/-1.00	-0.07/1.05	1.13/2.19	2.91/2.06	1.97/2.86	2.30/1.52	1.16/2.37	3.33/1.72	-0.34/-2.62	-3.03/-1.17	-0.67/-0.55	-0.31/-0.94	-2.33/-1.57	0.19/0.88	0.59/0.92	1.13/1.56	2.81/2.53	0.35/-1.57	-1.78/-0.54	-1.39/-1.07
Θ(52.5°)	-1.33/-1.14	-1.69/-3.57	-1.28/-2.32	-4.90/-4.96	-1.04/0.11	1.27/1.84	2.05/2.40	1.94/-1.03	-2.16/-1.32	-1.24/0.03	-1.08/0.20	2.53/1.17	-1.45/-5.01	-7.28/-3.23	-1.76/-0.34	-0.55/-1.99	-4.80/-4.47	-1.04/2.43	2.47/1.72	1.67/0.73	2.17/2.69	1.17/-3.52	-4.52/-0.73	-1.79/-0.37
Θ(60°)	-0.89/-0.38	-0.49/-0.47	1.04/-0.35	-0.75/-1.04	1.23/2.33	2.78/3.13	3.61/1.99	-0.88/-3.23	-1.06/-3.72	-6.92/-7.23	-2.68/-0.16	1.60/-0.16	-1.97/-4.75	-8.77/-6.40	-3.09/0.00	-1.12/-2.51	-5.66/-6.47	-1.81/2.62	2.30/2.33	2.07/-3.28	-1.26/-1.52	2.03/-3.62	-8.72/-1.70	-3.16/0.16
Θ(67.5°)	0.88/1.19	0.75/1.31	1.83/1.26	0.41/0.74	1.86/2.63	3.96/3.99	3.73/0.14	-2.94/-1.80	-0.03/-0.40	-4.39/-4.82	-4.28/-0.32	-0.89/-1.95	-1.15/-3.74	-9.04/-9.54	-3.72/-0.40	-3.80/-2.84	-6.24/-4.09	-1.03/2.32	1.84/2.46	1.24/-6.43	-2.94/-0.71	1.40/-6.35	-0.31/-1.40	-2.45/-0.15
Θ(75°)	1.65/-0.13	1.13/0.85	1.42/2.18	0.03/0.87	2.07/1.97	3.58/3.67	3.02/-1.01	-2.10/-0.67	-0.34/-5.36	-2.32/-0.14	-4.25/-2.94	-0.01/-2.54	-2.07/-3.15											



Antenna Pattern_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix K

θ(75°)	-1.210/6	1.460/26	-0.310/55	2.030/43	-3.72/-2.36	-3.48/-1.95	-6.73/-7.90	-5.12/-7.82	-2.15/0.24	-0.24/4.69	-1.07/-1.09	-3.59/-11.01	-11.35/-5.93	-3.62/-4.32	-1.41/-1.91	-4.52/-2.77	-3.22/-7.13	-7.00/-4.25	-5.22/-1.94	-0.78/-0.16	-9.53/-2.41	-1.200/-42	-3.36/-7.04	-3.44/-0.80
θ(82.5°)	-0.76/-0.03	0.180/34	-0.070/76	1.170/12	-2.74/-2.64	-5.08/-4.22	-7.74/-6.73	-6.70/-7.39	-1.04/-0.30	-0.63/-6.36	-1.03/-2.20	-5.17/-9.48	-13.27/-5.98	-3.21/-3.87	-0.78/-0.61	-4.37/-1.18	-3.01/-5.88	-6.55/-4.87	-4.90/-3.92	-1.76/-0.34	-8.83/-1.39	-1.22/-0.59	-5.19/-5.04	-2.92/-0.30
θ(90°)	-1.53/-1.16	-1.01/-0.10	-0.78/-0.46	-0.23/-2.47	-4.11/-3.53	-5.87/-4.66	-9.46/-7.92	-8.20/-8.13	-1.87/-2.19	-1.23/-4.50	-3.60/-3.54	-6.97/-7.96	-13.63/-5.92	-3.20/-6.01	-6.62/-1.22	-3.98/-3.68	-3.80/-3.21	-8.14/-8.90	-7.03/-6.15	-3.01/-3.25	-6.65/-0.60	-2.17/-2.15	-8.74/-3.74	-3.920/-2
θ(97.5°)	-2.79/-2.36	-2.37/-1.95	-1.27/-0.59	-1.08/-4.39	-5.25/-5.99	-8.43/-6.19	-9.32/-9.09	-10.55/-9.90	-3.18/-2.92	-1.11/-6.33	-6.28/-4.65	-8.32/-9.81	-12.46/-5.92	-4.19/-5.11	-0.77/-3.41	-4.10/-5.09	-4.76/-3.41	-9.80/-15.86	-9.40/-7.18	-2.60/-4.93	-4.84/-2.22	-1.61/-5.23	-7.13/-4.80	-6.47/-1.38
θ(105°)	4.61/-4.14	-7.59/-3.87	0.11/-0.51	-3.22/-8.25	-4.94/-6.56	-12.39/-7.64	-11.68/-10.34	-15.08/-13.01	-4.76/-2.50	-3.44/-7.19	-6.73/-6.60	-9.15/-9.84	-12.56/-7.63	-6.59/-7.19	-2.86/-5.23	-5.08/-7.82	-7.28/-6.41	-9.10/-14.74	-10.39/-7.86	-4.41/-8.02	-5.59/-7.60	-3.67/-10.19	-6.54/-5.57	-7.39/-3.12
θ(112.5°)	-8.08/-8.49	-11.27/-3.58	0.49/-1.53	-8.03/-9.97	-5.09/-10.12	-9.96/-7.34	-13.01/-12.06	-11.43/-7.80	-6.29/-4.01	-6.01/-7.80	-10.18/-10.95	-17.71/-14.36	-11.77/-12.83	-4.86/-10.66	-6.09/-5.14	-5.65/-8.77	-8.70/-10.40	-10.96/-12.73	-12.97/-9.17	-6.76/-10.13	-9.17/-16.68	-6.65/-6.83	-11.10/-3.41	
θ(120°)	-7.09/-12.80	-7.43/-1.44	-0.84/-6.05	-9.94/-9.56	-6.42/-10.41	-9.75/-10.48	-11.26/-15.37	-15.07/-12.84	-8.34/-5.29	-6.78/-11.96	-7.32/-9.91	-9.18/-12.98	-14.76/-14.61	-7.85/-10.37	-6.70/-6.57	-8.00/-8.15	-10.54/-14.00	-14.81/-10.90	-14.45/-9.88	-11.12/-9.90	-9.74/-7.37	-11.26/-13.88	-8.13/-12.12	-9.95/-4.62
θ(127.5°)	-6.72/-6.14	-2.87/-5.67	-1.84/-13.25	-8.25/-7.64	-12.10/-13.63	-9.52/-8.47	-13.71/-14.85	-14.72/-10.31	-8.87/-7.74	-10.80/-6.02	-9.12/-10.76	-10.76/-14.36	-14.18/-15.27	-9.38/-12.61	-8.60/-7.00	-10.83/-9.21	-14.23/-11.52	-11.01/-10.24	-15.20/-10.87	-10.37/-7.09	-8.66/-8.32	-13.56/-10.83	-10.68/-6.97	-9.19/-6.94
θ(135°)	-7.38/-6.17	-7.91/-6.64	-12.11/-12.66	-7.38/-14.01	-13.11/-11.90	-10.17/-12.44	-13.71/-14.18	-14.42/-13.35	-11.73/-9.81	-7.00/-9.94	-15.63/-13.13	-10.31/-12.36	-10.68/-14.96	-11.59/-11.14	-8.86/-8.32	-8.89/-9.51	-11.79/-14.91	-14.68/-10.15	-14.31/-15.08	-10.67/-8.64	-11.01/-9.50	-8.49/-10.49	-9.38/-10.24	-8.54/-5.90
θ(142.5°)	-8.54/-10.87	-9.84/-12.14	-11.83/-12.07	-9.67/-12.73	-14.59/-10.26	-13.01/-13.45	-15.72/-14.31	-14.14/-10.39	-8.69/-10.08	-9.59/-9.57	-12.76/-11.95	-12.01/-12.15	-14.00/-15.00	-13.97/-12.12	-11.17/-8.26	-10.78/-10.17	-9.27/-15.62	-15.78/-14.27	-15.44/-15.74	-15.66/-15.60	-9.55/-10.28	-9.24/-13.21	-9.69/-7.85	-12.37/-6.16
θ(150°)	-8.90/-11.54	-8.30/-11.00	-14.47/-12.86	-15.36/-12.04	-13.29/-11.36	-11.32/-15.57	-14.69/-14.89	-15.09/-14.04	-12.47/-10.53	-10.41/-15.66	-10.89/-12.16	-12.90/-13.63	-10.49/-7.73	-13.61/-11.94	-13.58/-14.65	-11.39/-12.55	-13.92/-12.06	-14.36/-13.26	-14.07/-15.03	-15.67/-14.23	-12.42/-12.98	-13.29/-11.45	-12.77/-14.97	-9.31/-8.28
θ(157.5°)	-8.38/-12.92	-15.26/-11.60	-13.34/-12.92	-13.21/-13.18	-9.52/-9.88	-10.21/-14.16	-16.07/-15.25	-15.76/-14.83	-13.90/-13.26	-14.77/-13.16	-13.00/-14.85	-15.73/-14.75	-15.46/-15.51	-15.63/-14.86	-15.61/-14.90	-14.62/-15.74	-14.02/-15.06	-15.21/-15.69	-15.47/-13.63	-15.45/-15.15	-11.90/-10.20	-11.97/-14.90	-10.39/-9.05	
θ(165°)	-14.70/-15.57	-15.11/-15.57	-15.83/-12.28	-10.58/-10.71	-12.11/-12.34	-14.21/-14.95	-14.21/-13.99	-14.51/-15.01	-14.69/-14.76	-15.32/-14.05	-14.67/-14.40	-12.18/-14.45	-14.82/-12.28	-12.48/-15.79	-15.37/-13.63	-14.27/-15.33	-15.78/-15.09	-14.88/-13.50	-12.17/-13.51	-14.96/-15.12	-15.29/-15.84	-14.85/-15.48	-14.95/-11.45	-11.20/-12.82
θ(172.5°)	-11.76/-12.81	-14.43/-14.10	-15.08/-14.92	-13.40/-12.17	-12.67/-13.79	-13.81/-14.14	-14.81/-15.47	-15.93/-15.95	-15.38/-14.81	-14.50/-14.68	-15.04/-15.37	-15.61/-15.54	-15.88/-15.55	-14.55/-12.84	-11.62/-13.43	-14.62/-14.88	-14.37/-13.43	-13.34/-13.50	-14.82/-16.12	-15.12/-12.52	-10.74/-11.09	-12.44/-13.77	-13.99/-14.07	-12.28/-11.79
θ(180°)	-13.18/-13.04	-12.70/-13.00	-12.67/-13.00	-14.42/-14.14	-12.96/-11.88	-11.47/-12.77	-15.34/-16.07	-15.81/-15.96	-15.20/-15.68	-15.08/-14.66	-15.14/-15.34	-15.31/-15.34	-15.34/-15.36	-14.96/-16.12	-14.81/-16.20	-14.56/-15.42	-15.09/-13.91	-13.74/-13.01	-13.24/-12.84	-13.06/-13.20	-13.33/-13.67	-12.76/-11.94	-12.68/-13.51	-14.43/-13.65
Freq(Hz)	2.45GPol.	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°)	-3.15/-3.31	-3.05/-3.28	-3.16/-3.13	-3.16/-3.30	-3.53/-3.92	-4.41/-4.80	-4.95/-4.84	-4.75/-4.58	-4.26/-3.97	-3.78/-3.74	-3.75/-3.77	-3.73/-3.67	-3.63/-3.53	-3.61/-3.76	-3.91/-4.07	-4.16/-4.18	-3.98/-3.66	-3.23/-2.95	-2.74/-2.64	-2.54/-2.45	-2.44/-2.51	-2.62/-2.75	-2.90/-3.05	
θ(7.5°)	-3.24/-3.07	-2.85/-2.51	-2.13/-1.80	-1.57/-1.38	-1.27/-1.31	-1.43/-1.60	-1.64/-1.53	-1.49/-1.48	-1.43/-1.43	-1.53/-1.84	-2.21/-2.55	-2.86/-3.27	-3.72/-4.18	-4.51/-4.84	-5.13/-5.41	-5.66/-5.90	-6.03/-5.99	-5.68/-5.30	-4.90/-4.53	-4.37/-4.26	-4.11/-4.04	-3.98/-3.97	-3.91/-3.81	-3.64/-3.44
θ(15°)	-3.22/-2.90	-2.49/-2.00	-1.47/-1.01	-0.65/-0.40	-0.21/-0.04	0.020/0.0	0.250/0.2	0.770/0.92	1.011/1.0	0.910/0.63	0.20/-0.32	-0.97/-1.84	-2.92/-4.11	-5.26/-6.11	-6.50/-6.30	-5.90/-5.62	-5.22/-4.83	-4.25/-3.66	-3.20/-2.87	-2.68/-2.75	-3.05/-3.37	-3.64/-3.75	-3.70/-3.50	
θ(22.5°)	-3.03/-2.65	-2.22/-1.81	-1.42/-1.09	-0.90/-0.81	-0.76/-0.69	-0.58/-0.42	-0.140/-0.30	0.791/-0.25	1.68/0.02	2.212/-0.23	2.031/-0.58	0.79/-0.36	-1.73/-1.33	-4.17/-4.67	-6.41/-4.22	-3.76/-3.54	-3.58/-3.84	-3.45/-2.99	-2.46/-2.02	-1.69/-1.46	-1.37/-1.56	-1.97/-2.40	-2.85/-3.25	-3.44/-3.35
θ(30°)	-2.98/-2.54	-2.05/-1.63	-1.30/-1.05	-1.01/-1.20	-1.52/-1.86	-2.13/-2.26	-2.19/-1.79	-1.08/-0.15	0.871/0.83	2.553/-0.00	3.132/-0.86	2.201/-1.7	-0.04/-1.08	-1.66/-1.74	-1.65/-1.64	-1.79/-2.19	-2.87/-3.60	-4.09/-3.98	-3.41/-2.75	-2.15/-1.60	-1.22/-1.03	-1.17/-1.55	-2.14/-2.84	-3.32/-3.33
θ(37.5°)	-3.17/-2.56	-1.86/-1.20	-0.91/-0.62	0.190/0.10	-0.27/-0.90	-1.60/-2.27	-3.04/-3.39	-3.03/-1.87	-0.241/-3.2	2.563/-0.32	3.583/-0.39	2.791/-8.9	0.980/3.1	0.02/-0.07	-0.21/-0.60	-1.30/-2.23	-3.27/-4.15	-4.80/-4.90	-4.45/-3.86	-3.30/-2.66	-2.04/-1.45	-1.14/-1.31	-1.95/-2.80	-3.46/-3.53
θ(45°)	-3.08/-2.19	-1.14/-0.26	0.450/0.5	1.261/28	1.010/53	-0.09/-0.68	-1.57/-2.68	-3.30/-2.90	-1.300/51	2.083/0.03	3.403/-0.27	2.842/-27	1.751/-31	0.930/55	0.08/-0.69	-1.82/-2.99	-3.85/-4.19	-4.31/-4.38	-4.21/-3.98	-4.07/-4.24	-1.86/-1.60	-2.00/-2.82	-3.51/-5.56	
θ(52.5°)	-2.13/-1.10	-0.090/0.58	0.911/0.4	1.151/-1.7	1.040/79	0.450/0.06	-0.58/-1.57	-2.80/-3.21	-2.03/-0.10	1.562/-0.54	2.812/-65	2.362/-16	2.021/73	1.250/57	-0.39/-1.72	-3.18/-3.90	-3.86/-3.66	-3.62/-3.74	-3.73/-3.73	-4.22/-5.19	-5.37/-3.94	-2.48/-1.83	-1.91/-2.36	-2.78/-2.80
θ(60°)	-1.76/-0.82	0.120/53	0.390/11	0.020/0.0	0.170/26	0.220/0.4	-0.35/-1.5	-2.50/-3.65	-3.48/-1.67	0.321/-49	1.811/-56	1.251/-22	1.361/-37	1.030/24	-1.17/-3.08	-4.84/-4.78	-3.90/-3.43	-3.57/-4.04	-4.43/-4.66	-4.75/-5.70	-6.32/-4.97	-3.16/-2.06	-1.71/-1.91	-2.37/-2.54
θ(67.5°)	-2.15/-1.35	-0.67/-0.49	-0.96/-1.47	-1.04/-1.15	-0.91/-0.54	-0.36/-0.34	-0.50/-1.13	-2.39/-3.65	-3.98/-2.59	-0.490/80	1.020/-48	-1.00/-0.08	0.320/64	0.48/-0.44	-2.16/-3.49	-5.92/-5.03	-3.82/-3.66	-4.42/-5.40	-6.04/-5.84	-5.52/-6.06	-6.89/-5.87	-7.67/-2.44	-2.03/-2.35	-2.79/-2.76
θ(75°)	-2.27/-2.14	-1.88/-1.91	-2.48/-2.99	-2.74/-2.31	-2.09/-1.73	-1.48/-1.39	-1.27/-1.52	-2.42/-3.38	-3.66/-2.87	-1.27/-0.14	0.14/-0.55	-1.56/-1.79	-1.08/-0.29	-0.04/-0.68	-2.21/-4.19	-5.42/-4.46	-3.44/-3.81	-5.30/-7.13	-8.00/-7.47	-6.44/-6.51	-7.31/-6.63	-4.56/-3.22	-2.64/-2.45	-2.23/-2.14
θ(82.5°)	-2.42/-2.87	-2.68/-2.51	-2.78/-2.84	-2.39/-2.00	-1.95/-1.99	-2.00/-2.15	-2.08/-2.18	-2.80/-3.49	-3.47/-2.76	-1.62/-0.81	-0.54/-1.24	-2.46/-2.75	-2.19/-1.47	-1.26/-2.00	-3.42/-4.96	-5.55/-4.38	-3.41/-3.95	-5.87/-8.15	-8.26/-7.45	-6.54/-6.44	-6.88/-6.05	-4.33/-3.19	-2.39/-1.70	-1.31/-1.63
θ(90°)	-4.01/-4.87	-4.42/-3.79	-3.49/-2.88	-2.38/-1.98	-1.80/-1.85	-1.96/-2.20	-2.38/-2.69	-3.44/-4.23	-4.35/-3.68	-2.55/-1.76	-1.14/-1.19	-1.99/-2.52	-2.47/-2.19	-2.06/-2.31	-2.98/-3.64	-4.54/-4.00	-3.31/-3.93	-5.90/-7.47	-7.43/-7.07	-6.65/-6.51	-6.64/-5.64	-4.25/-3.67	-3.39/-2.81	-2.38/-2.91
θ(97.5°)	-6.00/-6.86	-6.37/-5.51	-4.39/-3.34	-2.92/-2.89	-2.85/-3.01	-3.12/-3.26	-3.33/-3.67	-4.39/-3.58	-5.95/-5.24	-4.15/-3.44	-2.41/-2.11	-2.56/-2.81	-3.02/-3.39	-3.55/-3.44	-3.42/-3.57	-3.81/-3.55	-3.58/-4.58	-6.61/-8.00	-8.16/-7.81	-5.17/-5.10	-6.67/-5.95	-5.38/-5.49	-5.50/-4.90	-4.41/-4.93
θ(105°)	-7.34/-7.11	-6.54/-5.70	-4.97/-4.22	-3.85/-3.88	-3.90/-4.48	-4.80/-6.69	-4.33/-4.16	-4.63/-5.85	-7.56/-7.60	-6.60/-6.29	-5.34/-4.48	-3.92/-3.57	-3.69/-4.11	-4.44/-4.53	-4.34/-3.89	-3.57/-3.52	-4.21/-5.91	-8.24/-8.94	-8.04/-7.29	-7.24/-7.80	-8.08/-7.52	-7.18/-6.85	-6.27/-5.86	-6.33/-7.40
θ(112.5°)	-10.06/-10.27	-9.69/-8.60	-6.91/-6.79	-7.99/-8.39	-7.70/-8.63	-8.70/-7.64	-6.30/-5.30	-4.93/-6.05	-8.33/-9.51	-8.56/-8.17	-7.59/-6.87	-5.60/-4.94	-5.07/-5.43	-5.93/-6.65	-6.88/-6.76	-5.84/-5.31	-6.09/-7.97	-9.87/-8.95	-7.96/-7.79	-8.70/-10.2	-10.16/-9.12	-7.78/-6.28	-5.35/-5.63	-7.38/-9.44
θ(120°)	-9.59/-10.50	-9.89/-7.40	-5.61/-6.24	-9.93/-12.95	-11.33/-11.72	-11.33/-10.09	-9.19/-7.92	-7.12/-7.35	-7.89/-8.44	-9.70/-10.57	-9.93/-9.24	-7.66/-6.83	-6.25/-6.62	-5.13/-4.96	-5.06/-5.35	-5.60/-6.51	-12.22/-14.2	-13.22/-12.19	-10.92/-11.35	-13.18/-13.71	-12.11/-10.91	-8.07/-5.52	-6.34/-4.76	-6.25/-8.08
θ(127.5°)	-8.91/-10.06	-10.86/-10.34	-8.26/-8.38	-10																				



Antenna Pattern_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix K

Θ(127.5°)	-7.79/-5.18	-4.64/-5.77	-4.85/-5.82	-7.41/-8.74	-14.55/-10.44	-7.32/-7.48	-12.07/-10.01	-5.35/-5.24	-5.02/-7.53	-6.22/-5.08	-5.73/-15.03	-14.68/-9.95	-10.22/-14.30	-9.06/-6.49	-9.29/-12.34	-9.36/-12.86	-7.06/-5.06	-7.09/-5.51	-5.49/-7.29	-8.98/-3.40	-1.37/-6.07	-12.76/-7.58	-7.95/-8.99	-8.93/-11.41
Θ(135°)	-9.34/-5.21	-4.98/-6.22	-11.28/-7.34	-4.53/-4.34	-9.92/-10.58	-8.47/-9.54	-10.78/-13.92	-7.84/-8.42	-10.43/-5.64	-7.58/-13.03	-13.43/-10.16	-7.51/-11.34	-7.38/-6.39	-5.88/-5.35	-6.18/-10.70	-6.82/-8.40	-9.10/-6.11	-2.32/-3.94	-10.83/-7.79	-4.05/-4.51	-8.45/-11.49	-11.83/-12.62	-8.50/-8.63	
Θ(142.5°)	-7.40/-4.90	-4.66/-6.62	-8.62/-12.79	-10.33/-10.76	-6.64/-6.83	-8.88/-7.29	-12.58/-15.12	-9.24/-6.44	-8.19/-7.15	-6.76/-10.56	-6.61/-10.38	-6.82/-5.06	-6.17/-10.97	-5.98/-5.35	-15.77/-10.97	-9.68/-15.32	-3.66/-7.14	-15.02/-9.04	-0.04/-4.38	-8.64/-15.20	-9.04/-4.38	-4.32/-6.92		
Θ(150°)	-8.81/-10.45	-9.40/-12.20	-13.69/-10.11	-9.39/-11.92	-11.95/-7.45	-6.91/-11.44	-11.15/-9.17	-15.62/-8.42	-7.55/-9.49	-10.31/-8.76	-12.69/-9.71	-7.43/-7.21	-6.16/-11.54	-9.99/-11.29	-13.07/-9.17	-7.05/-8.46	-8.97/-10.07	-15.42/-12.06	-8.79/-11.76	-13.28/-9.73	-8.60/-7.98	-7.07/-10.12	-10.49/-6.72	-5.13/-5.43
Θ(157.5°)	-10.53/-14.46	-13.89/-11.70	-11.56/-11.06	-9.31/-6.73	-6.30/-8.77	-9.56/-9.88	-12.13/-12.32	-10.56/-14.66	-10.54/-6.48	-9.15/-14.01	-10.68/-10.76	-12.68/-9.49	-8.20/-11.45	-14.16/-11.88	-11.52/-11.27	-12.57/-13.40	-12.16/-15.14	-15.31/-12.69	-13.00/-14.47	-11.81/-8.89	-8.66/-8.44	-9.14/-9.74	-8.32/-9.45	-13.94/-10.80
Θ(165°)	-9.69/-11.61	-15.14/-14.39	-11.05/-10.04	-10.50/-9.77	-10.90/-12.80	-11.36/-15.11	-13.95/-13.04	-11.53/-10.91	-12.44/-13.82	-13.66/-9.27	-8.44/-10.33	-12.97/-13.26	-10.57/-11.40	-10.50/-12.90	-12.24/-10.23	-10.87/-12.51	-14.69/-14.76	-13.54/-13.55	-12.33/-10.36	-8.21/-6.85	-6.35/-6.56	-8.26/-12.01	-12.74/-10.14	
Θ(172.5°)	-9.93/-10.71	-13.25/-14.92	-15.35/-15.07	-15.68/-15.88	-14.86/-15.09	-14.98/-14.88	-14.71/-16.03	-14.96/-15.85	-15.09/-14.62	-15.37/-15.15	-15.42/-15.24	-15.83/-15.74	-14.50/-14.16	-15.49/-15.30	-15.00/-14.33	-13.76/-12.80	-13.57/-13.14	-12.83/-12.79	-10.92/-10.76	-10.43/-10.98	-12.57/-12.99	-11.94/-10.81	-10.31/-9.38	-9.15/-9.32
Θ(180°)	-9.54/-9.28	-9.26/-9.92	-10.71/-11.00	-11.22/-11.04	-9.85/-9.24	-8.67/-8.66	-8.54/-8.10	-8.94/-8.69	-8.47/-8.38	-8.51/-8.18	-7.80/-8.16	-8.08/-8.33	-8.60/-9.42	-10.42/-10.91	-11.46/-12.14	-11.62/-12.02	-12.69/-12.94	-13.53/-13.64	-12.48/-12.93	-13.84/-12.37	-11.55/-10.15	-10.89/-12.00	-12.13/-12.00	-11.69/-11.49
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°)	2.32/2.32	2.36/2.42	2.48/2.51	2.50/2.33	2.18/2.07	2.04/2.24	2.44/2.33	2.22/2.08	2.06/2.05	2.06/2.05	2.22/2.23	2.10/2.03	2.07/2.15	2.11/2.11	2.28/2.35	2.46/2.66	2.61/2.52	2.23/2.09	2.25/2.43	2.48/2.40	2.40/2.50	2.42/2.42	2.56/2.60	2.56/2.42
Θ(7.5°)	1.11/1.00	0.70/0.88	1.36/1.64	1.85/1.60	1.69/1.89	1.98/2.28	2.61/2.67	2.70/2.54	2.47/2.43	2.28/1.95	1.86/1.70	1.48/1.24	1.01/0.89	0.91/0.92	1.46/2.03	2.34/2.38	2.34/1.90	1.88/1.68	1.71/1.63	1.70/1.79	1.63/1.50	1.39/1.26	1.30/1.27	
Θ(15°)	0.66/0.78	0.86/0.97	1.01/0.49	-0.14/-0.63	-0.56/-0.12	0.09/0.76	1.32/1.45	1.75/1.90	1.96/2.02	1.73/1.30	0.62/0.17	-0.99/-2.14	-3.11/-3.38	-3.24/-2.82	-2.29/-1.74	-0.81/-0.08	0.78/0.98	1.59/1.40	1.16/0.81	0.50/0.39	0.38/0.37	0.41/0.23	-0.01/-0.06	0.16/0.41
Θ(22.5°)	2.09/2.52	1.94/1.14	-0.25/-1.39	-1.88/-1.93	-1.82/-1.35	-1.13/-0.69	0.01/0.37	0.91/1.30	1.47/1.38	0.65/-0.17	-0.61/-0.58	-0.59/-1.56	-2.85/-3.76	-3.44/-2.45	-2.07/-1.89	-1.58/-1.33	-1.06/-1.56	-1.39/-1.59	-1.24/-1.02	-1.17/-1.43	-2.16/-2.77	-2.45/-1.61	-0.99/-0.71	-10.20/-8.1
Θ(30°)	2.41/2.43	2.61/1.44	0.01/-1.06	-1.96/-1.74	-1.21/-0.75	-0.75/-1.34	-2.04/-0.79	0.77/2.59	3.49/3.36	2.65/1.29	-0.13/-0.13	1.04/1.53	0.59/-1.31	-1.90/-0.39	0.10/0.69	-0.17/-0.69	-1.60/-2.54	-3.11/-2.69	-2.41/-2.11	-5.40/-4.54	-2.05/-1.04	-0.46/0.98		
Θ(37.5°)	2.53/2.81	2.40/2.62	2.02/0.35	-2.57/-5.36	-5.61/-2.59	-0.05/-0.68	-1.47/0.48	2.63/0.91	4.45/4.26	3.91/3.17	2.31/1.93	2.20/2.02	0.97/-1.99	-4.01/-1.44	-0.79/-0.82	-1.31/-2.56	-4.06/-5.09	-4.62/-3.35	-2.22/-2.24	-3.00/-3.37	-3.77/-4.72	-4.99/-5.48	-3.60/-1.24	0.36/1.21
Θ(45°)	2.65/0.84	3.40/2.32	1.82/1.18	-2.18/-5.61	-4.98/-4.22	-1.23/-0.25	0.87/2.91	4.94/6.25	6.12/5.17	4.25/3.25	2.85/3.30	3.65/3.41	1.83/-1.58	-5.96/-2.42	-1.24/0.46	-0.76/-4.36	-6.08/-3.52	-4.34/-5.50	-5.69/-5.57	-5.53/-4.28	-3.44/-3.00	-2.33/-4.85	-5.42/-2.24	0.27/1.03
Θ(52.5°)	2.10/3.49	3.66/3.10	3.01/2.52	-1.42/-5.05	-3.24/-0.45	0.29/0.59	2.54/1.51	5.90/6.82	8.83/9.44	4.90/3.89	2.76/2.33	2.98/3.70	1.83/-1.00	-3.61/-3.12	-1.53/1.43	0.18/-4.48	-3.13/0.51	-4.32/-2.65	-1.03/-3.81	-5.36/-3.17	-1.14/0.58			
Θ(60°)	0.86/2.72	3.27/2.55	2.13/0.42	-6.24/-6.26	-3.14/1.85	2.14/-0.02	3.18/5.20	5.18/5.00	4.04/3.10	3.74/3.92	2.79/0.73	1.30/3.68	3.01/1.30	-1.42/-2.75	-1.87/1.15	0.90/-2.76	-1.60/1.96	0.72/1.04	-0.02/-4.25	-6.26/-3.76	-2.62/-0.77	0.63/-2.95	-5.87/-4.31	-3.33/-1.04
Θ(67.5°)	0.38/1.14	1.35/0.76	0.96/1.34	-9.54/-5.22	-2.75/2.50	2.25/-0.75	2.91/4.50	3.69/3.40	2.67/1.03	0.61/2.41	1.70/-2.58	-1.34/-1.99	2.23/1.48	-1.56/-3.36	-2.53/-2.08	0.65/-6.66	0.01/1.06	-1.21/-0.18	-1.32/-4.76	-4.28/-6.07	0.40/1.36	1.98/-2.10	-6.52/-5.19	-4.99/-1.99
Θ(75°)	-0.73/0.55	-0.51/-0.94	0.96/-2.10	-8.08/-6.68	-2.53/2.30	-1.89/-1.71	0.77/2.72	1.46/1.35	3.56/3.00	-1.85/-0.29	1.65/-4.09	-6.83/-0.24	-1.34/0.72	-3.75/-4.69	-0.97/-0.66	0.07/-1.96	-0.59/-0.91	-0.43/-0.92	-0.98/-2.14	-0.47/1.45	2.74/3.47	3.16/0.71	-5.84/-6.93	-6.86/-4.05
Θ(82.5°)	-2.41/-0.09	-2.24/-2.83	0.06/-4.41	-13.07/-7.25	-1.81/-1.22	0.13/-4.00	-0.73/0.94	0.41/0.95	0.91/-0.54	-4.12/-0.79	1.29/-5.01	-7.99/-0.74	0.87/-1.38	-4.45/-6.14	-2.33/-0.75	-1.27/-3.56	-0.99/-3.10	-6.04/-1.75	-0.07/0.29	1.94/2.82	3.86/3.99	3.04/-0.41	-6.41/-9.06	-7.96/-5.35
Θ(90°)	-5.15/-1.68	-4.16/-3.67	-0.87/-6.90	-12.52/-5.98	-1.87/-2.08	-2.14/-6.85	-3.51/-1.68	-1.54/0.04	-0.13/-0.96	-3.70/-3.79	-0.83/-4.15	-7.85/-4.35	-0.54/-2.26	-6.27/-7.71	-3.99/-3.18	-4.36/-6.21	-2.37/-5.31	-11.35/-2.83	1.54/0.89	2.40/3.32	3.39/3.06	2.82/-0.63	-7.13/-11.51	-9.33/-8.39
Θ(97.5°)	-5.99/-3.37	-7.10/-5.67	-1.38/-1.77	-14.14/-7.42	-4.39/-2.61	-4.48/-8.75	-5.95/-4.41	-3.96/-2.27	-2.60/-3.90	-7.24/-6.05	-2.59/-6.49	-0.81/-5.21	-1.64/-5.87	-9.34/-6.38	-4.02/-10.88	-12.76/-3.78	1.09/0.74	0.64/2.37	1.51/0.87	1.75/-1.62	-6.24/-11.70	-12.55/-10.83		
Θ(105°)	-6.78/-3.39	-6.98/-6.57	-2.62/-4.61	-12.78/-11.61	-5.95/-5.30	-7.24/-7.61	-8.48/-7.63	-5.82/-4.06	-3.59/-6.82	-15.42/-7.45	-6.15/-10.81	-9.30/-10.61	-4.74/-6.18	-10.94/-8.01	-5.21/-5.29	-13.39/-7.35	-5.40/-10.79	-8.93/-6.04	-0.80/-3.82	-1.98/0.71	-0.66/-1.17	-1.36/-2.20	-3.14/-11.90	-14.51/-13.07
Θ(112.5°)	-11.60/-9.44	-6.71/-12.76	-6.01/-6.39	-14.21/-13.94	-8.31/-5.58	-10.46/-10.14	-6.86/-6.68	-6.55/-6.82	-4.52/-5.62	-7.83/-2.97	-2.94/-7.10	-10.26/-3.94	-3.62/-8.52	-11.28/-8.06	-7.34/-6.29	-13.19/-7.03	-7.45/-10.39	-10.22/-6.87	-3.92/-5.46	-2.69/-1.03	-2.05/-3.66	-3.86/-3.30	-5.57/-1.51	-14.05/-15.25
Θ(120°)	-12.30/-8.09	-9.31/-10.91	-6.98/-4.00	-5.87/-11.25	-6.98/-7.08	-9.54/-15.00	-12.06/-11.09	-7.89/-8.08	-6.39/-7.89	-6.51/-4.13	-3.34/-11.95	-11.84/-4.61	-5.14/-8.28	-11.32/-8.40	-7.41/-12.34	-13.69/-8.24	-9.45/-11.04	-8.65/-7.11	-4.30/-5.00	-2.59/-0.62	-4.24/-5.54	-6.86/-10.58	-12.55/-14.23	
Θ(127.5°)	-9.12/-5.23	-7.28/-8.20	-7.37/-6.34	-4.54/-7.58	-15.84/-12.10	-9.98/-8.51	-12.57/-12.32	-7.69/-7.10	-6.07/-8.90	-7.03/-9.59	-5.69/-13.51	-13.99/-11.90	-9.75/-10.96	-10.99/-11.92	-12.46/-10.69	-6.97/-9.52	-15.52/-10.99	-9.73/-5.36	-5.79/-7.89	-4.95/-2.02	-2.15/-4.00	-6.40/-6.80	-5.84/-12.24	-14.53/-12.11
Θ(135°)	-12.96/-6.84	-8.47/-11.95	-13.83/-6.71	-4.98/-5.63	-9.32/-9.64	-11.66/-13.39	-1.15/-12.96	-11.54/-9.36	-9.30/-6.14	-8.90/-11.74	-12.02/-11.51	-13.03/-7.77	-9.47/-11.52	-9.44/-7.14	-6.90/-6.76	-5.08/-6.01	-13.95/-11.86	-12.53/-8.12	-6.29/-7.43	-10.87/-9.75	-3.94/-4.00	-9.22/-7.93	-9.56/-10.00	-11.72/-12.78
Θ(142.5°)	-10.66/-7.69	-5.33/-6.38	-7.00/-14.82	-11.09/-8.43	-8.58/-10.05	-8.54/-12.08	-14.84/-12.02	-9.06/-5.63	-10.80/-10.19	-9.17/-5.87	-7.76/-13.33	-5.87/-5.41	-7.62/-11.48	-8.90/-6.61	-7.24/-7.89	-12.58/-11.46	-11.50/-14.75	-14.67/-14.27	-9.46/-12.08	-15.16/-8.77	-5.57/-5.97	-12.67/-15.63	-8.64/-6.38	-9.46/-10.91
Θ(150°)	-6.96/-8.16	-5.43/-6.83	-8.49/-11.60	-13.39/-12.48	-12.40/-13.31	-12.77/-14.08	-8.42/-7.18	-12.80/-9.58	-4.99/-9.02	-8.59/-8.29	-12.88/-8.32	-5.70/-7.24	-5.88/-9.19	-8.64/-8.62	-14.87/-13.63	-10.78/-12.36	-12.52/-13.02	-15.93/-12.38	-11.22/-16.58	-9.47/-5.56	-7.64/-13.31	-6.77/-5.73	-4.72/-8.80	
Θ(157.5°)	-11.80/-15.21	-13.98/-9.63	-12.21/-12.80	-10.15/-9.84	-11.95/-14.66	-15.83/-13.47	-11.69/-12.00	-13.30/-14.10	-12.79/-9.49	-10.52/-12.99	-13.05/-10.73	-13.97/-9.73	-6.91/-9.20	-13.40/-11.79	-10.75/-10.61	-11.24/-13.09	-14.78/-15.07	-14.53/-11.34	-13.34/-12.77	-8.77/-6.53	-6.44/-7.80	-10.73/-14.34	-9.93/-9.39	-14.80/-12.92
Θ(165°)	-11.99/-11.60	-14.33/-15.29	-13.57/-12.18	-12.21/-13.32	-13.53/-14.32	-15.60/-14.80	-15.87/-13.38	-11.36/-10.66	-12.05/-12.68	-13.67/-10.38	-8.50/-8.60	-10.40/-13.39	-15.41/-15.56	-15.49/-15.72	-13.60/-12.70	-12.39/-13.40	-15.89/-16.05	-14.77/-14.00	-13.64/-14.51	-12.79/-10.48	-9.82/-8.76	-8.42/-8.52	-8.82/-10.31	-13.19/-13.32
Θ(172.5°)	-10.95/-10.71	-12.16/-14.54	-15.07/-15.21	-15.72/-15.76	-14.80/-13.95	-15.33/-15.33	-14.98/-14.92	-14.93/-15.20	-15.38/-14.31	-12.81/-12.93	-13.35/-13.90	-15.32/-15.69	-15.49/-14.89	-14.97/-15.29	-15.20/-15.50	-15.66/-15.52	-15.59/-14.95	-14.35/-13.64	-13.25/-13.50	-13.76/-14.48	-14.50/-13.94	-13.38/-11.37	-10.29/-11.05	-11.03/-10.71
Θ(180°)	-11.50/-11.87	-11.97/-12.59	-13.49/-14.29	-14.26/-13.60	-11.45/-10.72																			



Antenna Pattern_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix K

Θ (172.5°)	-14.27/-13.35	-12.80/-11.59	-11.84/-10.15	-8.05/-7.88	-8.26/-9.38	-10.63/-12.26	-12.98/-12.47	-11.67/-12.03	-13.64/-13.08	-13.29/-11.57	-10.38/-10.23	-10.77/-10.70	-10.65/-11.86	-12.03/-13.32	-13.77/-13.48	-12.19/-12.15	-11.96/-11.76	-12.19/-13.58	-15.29/-13.85	-11.55/-9.62	-8.91/-8.32	-7.19/-8.11	-9.66/-11.56	-13.26/-13.08
Θ (180°)	-10.19/-11.22	-12.03/-11.24	-9.72/-9.74	-11.12/-12.36	-13.45/-12.98	-11.75/-11.25	-10.58/-10.38	-10.51/-11.06	-11.50/-11.09	-10.76/-10.24	-9.98/-9.98	-10.35/-10.06	-9.83/-9.63	-10.13/-11.13	-10.35/-10.08	-10.97/-11.23	-10.80/-9.04	-8.97/-9.32	-9.70/-10.11	-10.40/-11.37	-12.63/-12.67	-14.45/-13.94	-12.46/-11.75	-11.99/-10.29
Freq(Hz)	6.995G/Pol.	TotalAnt. 2	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	5.50/5.45	5.42/5.35	5.59/5.95	5.82/6.02	6.05/6.18	6.37/6.51	6.47/6.36	6.21/6.23	6.26/6.21	6.10/6.00	5.87/5.77	5.60/5.56	5.47/5.31	5.23/5.14	5.20/5.21	5.23/5.25	5.41/5.39	5.22/5.33	5.27/5.43	5.36/5.42	5.46/5.58	5.55/5.44	5.25/5.22	5.30/5.33
Θ (7.5°)	4.48/4.27	3.79/3.86	4.19/4.39	4.60/4.89	5.16/5.46	5.78/6.04	6.38/6.42	6.64/6.68	6.75/6.85	6.80/6.70	6.65/6.63	6.55/6.56	6.55/6.58	6.60/6.71	6.70/6.79	6.89/6.95	6.99/6.92	6.77/6.66	6.59/6.51	6.32/6.22	6.19/6.07	5.73/5.45	5.07/4.86	4.67/4.49
Θ (15°)	4.59/4.23	3.85/3.66	3.66/4.01	4.31/4.54	4.66/4.76	4.89/5.06	5.37/5.75	6.21/6.60	6.93/7.15	7.23/7.26	7.33/7.29	7.06/6.84	6.57/6.44	6.42/6.47	6.44/6.58	6.52/6.42	6.25/6.14	5.90/5.44	5.17/5.46	5.85/5.99	5.93/5.97	6.08/5.99	5.80/5.53	5.24/5.06
Θ (22.5°)	3.69/3.32	2.85/2.50	2.36/2.77	2.64/2.31	1.65/1.38	1.59/2.29	2.81/3.60	4.11/4.94	5.43/5.57	5.80/5.96	6.40/6.43	5.90/5.09	4.53/4.44	4.62/4.77	5.07/5.32	5.40/5.13	4.99/4.83	4.85/4.44	4.23/4.56	5.17/5.87	6.33/6.65	6.47/6.11	5.94/5.51	4.95/4.43
Θ (30°)	1.74/1.62	1.91/1.51	0.92/0.22	-0.76/-2.21	-2.74/-2.07	-1.80/-0.65	1.07/2.16	2.52/2.39	2.93/3.62	4.15/4.20	4.09/4.00	3.90/3.69	2.98/2.82	3.28/3.22	3.01/2.67	1.75/0.55	1.00/2.30	2.80/2.88	2.92/3.07	3.11/3.70	4.80/5.30	4.98/4.93	5.46/5.33	4.53/3.21
Θ (37.5°)	0.98/-0.18	0.41/0.45	-0.76/-2.20	-3.56/-6.90	-5.92/-3.99	-3.90/-3.83	-1.88/0.97	2.08/1.74	1.20/0.97	1.47/2.25	2.05/0.56	0.40/1.59	1.19/1.24	2.15/1.03	-0.13/-0.14	-1.54/-3.74	-2.54/-0.33	0.23/0.12	0.01/0.85	0.98/0.56	1.55/2.79	2.31/2.73	3.77/4.54	3.94/2.82
Θ (45°)	0.16/-1.52	-1.76/-2.78	-6.97/-4.86	-5.24/-6.28	-7.66/-12.07	-8.88/-3.95	-4.73/-3.78	-0.68/-0.69	-0.64/-0.69	-0.11/0.69	0.27/-1.56	-2.49/0.61	1.20/-1.01	-0.72/-1.94	-2.26/-0.66	-1.34/-4.70	-4.72/-4.00	-3.55/-1.45	-0.19/0.16	0.04/-0.67	-1.18/-1.33	-2.34/-0.90	0.78/1.79	1.04/1.50
Θ (52.5°)	-1.14/-1.73	-8.01/-13.71	-8.64/-7.70	-5.82/-5.52	-9.11/-9.00	-7.56/-5.61	-4.28/-1.34	0.47/0.12	-0.72/-1.15	-0.86/-0.77	-1.60/-3.05	-2.69/1.38	1.46/-2.76	-4.33/-5.28	-2.89/-2.85	-5.40/-6.74	-6.38/-5.79	-5.27/-3.10	-2.04/-2.01	-1.76/-1.23	-2.44/-1.27	-1.67/-0.48	0.16/-0.28	-1.38/-1.40
Θ (60°)	-2.36/-3.60	-11.88/-11.51	-5.08/-5.91	-4.25/-3.66	-8.23/-6.94	-2.61/1.11	0.93/1.07	0.98/1.07	0.40/-1.52	-1.64/-2.73	-4.27/-5.93	-3.87/1.29	1.75/-3.76	-4.55/-2.42	-1.93/-5.14	-6.90/-7.12	-6.38/-4.33	-6.03/-8.99	-7.61/-6.36	-3.92/-1.65	-3.67/-2.93	-1.95/-1.36	-2.68/-3.35	-3.98/-3.60
Θ (67.5°)	-8.36/-4.85	-6.54/-9.71	-5.03/-5.23	-4.81/-3.38	-13.09/-7.24	-2.29/2.31	1.61/1.66	0.82/0.06	0.49/-2.34	-2.50/-6.20	-7.33/-11.23	-4.58/0.68	1.25/-4.16	-2.57/0.02	-2.62/-5.07	-7.74/-7.51	-6.43/-7.93	-9.23/-13.34	-11.50/-5.01	-2.08/-1.28	-3.95/-6.30	-6.41/-3.78	-7.19/-7.24	-6.91/-8.62
Θ (75°)	-10.32/-3.91	-4.73/-10.96	-4.70/-4.68	-4.83/-3.92	-10.07/-11.61	-3.17/-0.12	0.85/1.18	1.01/0.04	0.81/-3.42	-4.71/-12.06	-5.87/-5.81	-8.30/-1.95	1.63/-2.87	-2.52/0.73	-3.42/-3.66	-7.62/-5.98	-5.17/-7.12	-5.80/-7.97	-6.92/-3.28	0.66/1.26	-1.68/-5.22	-9.66/-2.21	-5.88/-8.56	-7.34/-8.65
Θ (82.5°)	-5.14/-3.53	-3.39/-9.53	-4.98/-4.69	-6.29/-4.70	-7.91/-12.98	-6.04/-3.09	-0.53/-0.30	0.63/-0.04	0.21/-4.71	-7.11/-10.64	-3.97/-5.54	-7.30/-3.12	-0.11/-4.85	-2.37/-1.86	-7.31/-3.60	-5.54/-1.82	-2.05/-4.04	-3.47/-3.77	-5.85/-2.15	2.28/2.58	0.33/-2.28	-3.56/-1.94	-4.78/-7.29	-5.71/-4.63
Θ (90°)	-4.23/-4.57	-3.91/-9.44	-7.98/-5.51	-5.54/-6.04	-9.03/-9.50	-8.54/-5.08	-2.07/-1.52	-1.17/-1.56	-0.45/-5.22	-9.06/-10.60	-3.99/-6.16	-6.80/-6.24	-1.48/-4.46	-2.77/-1.60	-7.34/-3.02	-3.13/-0.29	-0.36/-4.03	-3.33/-4.32	-6.68/-3.17	0.35/2.50	0.09/-0.75	-1.73/-3.20	-5.33/-8.70	-8.41/-4.25
Θ (97.5°)	-4.18/-8.72	-5.20/-7.83	-9.67/-6.60	-6.54/-5.13	-8.86/-10.21	-9.93/-6.88	-3.28/-3.68	-3.15/-1.60	0.07/-6.57	-11.13/-7.71	-5.78/-5.66	-5.52/-7.39	-2.82/-4.45	-2.90/-3.68	-10.10/-1.92	-3.02/-0.62	-2.00/-5.76	-7.48/-9.56	-8.47/-5.90	-3.59/-0.21	-1.89/-2.11	-2.18/-6.03	-9.97/-9.80	-12.01/-6.04
Θ (105°)	-5.32/-12.17	-6.48/-8.00	-10.24/-7.15	-7.45/-7.17	-9.08/-11.34	-11.39/-7.86	-4.39/-8.39	-4.74/-1.55	-1.10/-6.91	-10.58/-7.42	-7.21/-6.60	-6.23/-10.95	-5.55/-8.80	-6.21/-5.14	-8.42/-3.50	-3.81/-2.45	-4.62/-6.70	-12.39/-9.26	-9.58/-7.90	-3.52/-1.94	-2.78/-4.05	-4.84/-4.86	-11.07/-13.77	-13.83/-7.46
Θ (112.5°)	-7.17/-10.15	-6.20/-4.65	-12.89/-6.75	-4.65/-10.49	-12.27/-11.37	-11.56/-6.45	-6.92/-7.12	-5.90/-2.76	-6.83/-9.69	-13.50/-12.27	-9.69/-6.83	-9.19/-10.13	-12.87/-5.51	-3.88/-3.41	-6.19/-4.15	-5.42/-4.39	-6.32/-8.35	-10.83/-9.46	-5.11/-6.76	-4.99/-3.01	-3.15/-4.77	-8.02/-7.62	-10.98/-15.69	-11.69/-8.39
Θ (120°)	-9.34/-15.39	-9.34/-6.93	-14.06/-11.62	-6.39/-13.06	-11.02/-13.65	-12.16/-8.45	-9.10/-11.90	-4.39/-4.17	-4.05/-7.64	-11.59/-10.16	-6.53/-9.24	-12.78/-11.28	-9.14/-8.02	-4.97/-4.26	-6.03/-5.47	-4.61/-6.17	-8.64/-8.09	-9.90/-10.57	-6.68/-7.33	-6.76/-3.19	-3.68/-5.90	-8.17/-7.17	-7.29/-14.17	-12.05/-12.66
Θ (127.5°)	-11.20/-13.35	-10.66/-13.91	-13.40/-8.95	-12.21/-13.95	-12.42/-15.04	-12.67/-8.17	-9.31/-6.67	-8.03/-6.90	-9.28/-11.41	-8.74/-8.30	-7.48/-13.96	-14.22/-7.20	-8.47/-7.98	-7.66/-7.44	-7.80/-4.86	-5.27/-10.29	-9.25/-10.80	-9.12/-10.82	-10.83/-7.82	-8.16/-7.92	-5.67/-7.31	-10.49/-7.43	-5.99/-9.73	-14.20/-15.40
Θ (135°)	-8.86/-10.78	-10.22/-12.87	-12.66/-14.31	-13.27/-7.58	-15.59/-14.37	-13.97/-10.73	-11.46/-12.32	-9.35/-9.04	-10.07/-11.33	-12.24/-9.87	-11.89/-12.17	-14.79/-14.16	-11.89/-7.77	-8.33/-9.91	-9.06/-9.08	-10.23/-12.26	-14.93/-15.89	-11.92/-10.13	-13.72/-10.88	-6.52/-8.28	-7.44/-6.01	-10.33/-11.57	-11.20/-9.21	-12.06/-12.83
Θ (142.5°)	-9.24/-10.81	-8.55/-13.31	-14.70/-16.07	-9.80/-13.84	-11.82/-14.57	-7.89/-12.02	-13.82/-11.91	-12.68/-13.32	-9.64/-8.96	-6.87/-9.99	-13.66/-14.84	-11.32/-10.92	-12.44/-10.15	-11.29/-12.85	-10.68/-10.07	-15.66/-15.09	-14.33/-15.32	-12.25/-7.88	-11.17/-8.43	-5.82/-7.62	-9.74/-11.50	-9.04/-13.72	-13.50/-11.26	-12.56/-11.16
Θ (150°)	-13.25/-16.00	-14.27/-13.02	-12.93/-11.50	-13.14/-12.16	-14.15/-8.05	-8.83/-12.99	-15.68/-14.83	-11.69/-11.42	-12.41/-11.29	-11.75/-13.73	-7.87/-7.13	-6.69/-8.31	-8.37/-9.50	-11.51/-13.28	-11.92/-10.36	-12.60/-13.84	-13.38/-11.31	-9.74/-10.68	-10.84/-10.35	-11.27/-11.81	-10.75/-12.31	-10.83/-9.39	-14.46/-12.89	-13.09/-14.48
Θ (157.5°)	-12.60/-12.25	-12.21/-13.49	-15.81/-15.94	-15.19/-12.81	-10.47/-11.03	-9.65/-11.46	-13.75/-11.81	-12.02/-12.39	-12.54/-14.43	-13.12/-13.07	-13.91/-8.29	-8.99/-11.49	-9.96/-11.29	-11.31/-11.24	-13.21/-14.15	-14.61/-13.51	-12.34/-12.57	-13.97/-12.84	-12.32/-13.53	-14.62/-12.35	-13.71/-15.60	-15.57/-15.48	-15.20/-15.07	-15.64/-12.83
Θ (165°)	-15.86/-13.82	-12.66/-13.49	-16.04/-14.29	-11.96/-10.34	-9.91/-9.28	-11.05/-15.33	-15.60/-15.50	-15.73/-15.87	-12.87/-11.55	-12.82/-14.77	-15.66/-15.26	-13.93/-11.24	-10.88/-13.73	-15.29/-14.84	-14.98/-14.39	-13.18/-14.17	-15.49/-14.76	-15.16/-15.04	-14.40/-15.86	-13.72/-13.16	-12.49/-12.27	-12.61/-14.89	-15.29/-15.74	-15.93/-15.40
Θ (172.5°)	-10.37/-14.09	-15.87/-15.40	-13.42/-9.94	-9.65/-10.54	-11.82/-14.19	-15.30/-14.25	-13.20/-13.18	-11.13/-12.01	-13.42/-15.00	-13.74/-11.51	-10.71/-10.95	-12.35/-12.62	-12.10/-12.02	-12.08/-11.70	-11.61/-11.78	-11.89/-12.40	-11.94/-12.15	-12.38/-13.63	-14.99/-15.66	-14.59/-14.34	-14.60/-13.37	-12.96/-13.35	-11.92/-10.07	-9.13/-8.64
Θ (180°)	-14.74/-13.52	-13.54/-14.00	-15.42/-15.91	-14.98/-15.04	-15.64/-15.89	-14.93/-15.26	-14.17/-15.75	-15.77/-15.46	-16.13/-15.07	-15.96/-15.00	-14.09/-13.48	-13.34/-12.90	-12.80/-12.77	-13.17/-13.74	-14.45/-15.18	-15.69/-15.53	-14.76/-15.54	-16.10/-15.12	-15.60/-15.80	-14.43/-16.32	-15.05/-15.36	-16.15/-15.97	-14.62/-14.90	-15.54/-15.57

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

