



Antenna Pattern Radio 3 & Radio 4

Appendix F

Θ (112.5°)	-9.94/-7.13	-9.74/-10.40	-6.80/-7.14	-5.94/-5.18	-7.87/-5.39	-5.59/-8.22	-6.73/-12.38	-12.58/-11.70	-7.78/-5.37	-7.16/-4.73	-9.21/-12.17	-11.35/-7.74	-5.61/-7.27	-9.75/-5.94	-5.42/-5.33	-6.80/-4.47	-7.37/-8.90	-7.81/-11.64	-8.16/-6.82	-5.91/-9.21	-8.59/-6.23	-8.08/-11.98	-12.35/-12.13	-12.65/-0.01
Θ (120°)	-9.65/-7.87	-12.92/-12.98	-8.57/-9.85	-8.97/-9.88	-10.03/-9.10	-9.13/-10.00	-6.78/-10.81	-13.32/-11.32	-7.66/-6.49	-10.49/-5.49	-6.79/-13.05	-15.57/-7.05	-11.48/-7.94	-8.20/-5.14	-11.06/-5.28	-7.70/-5.94	-4.74/-10.89	-7.70/-7.65	-8.59/-4.37	-9.52/-10.47	-8.05/-7.90	-12.10/-14.06	-13.91/-10.18	-12.25/-10.39
Θ (127.5°)	-10.31/-5.17	-12.34/-13.08	-13.00/-10.44	-12.34/-13.58	-9.60/-11.56	-9.25/-11.32	-11.02/-15.36	-13.35/-13.51	-10.17/-10.03	-10.50/-7.16	-8.60/-7.77	-15.82/-10.00	-7.88/-7.60	-11.50/-4.58	-10.68/-8.01	-7.02/-8.23	-10.82/-9.23	-7.14/-8.24	-8.00/-7.28	-12.13/-10.17	-9.60/-8.99	-8.85/-8.61	-15.32/-11.91	-13.74/-9.99
Θ (135°)	-9.60/-8.50	-10.50/-12.54	-14.42/-13.45	-10.74/-12.23	-14.10/-13.42	-10.20/-12.35	-11.38/-12.12	-11.70/-15.66	-7.61/-10.26	-11.38/-13.69	-11.99/-8.24	-13.55/-13.00	-15.50/-11.79	-11.50/-8.76	-11.20/-12.43	-10.58/-10.04	-10.96/-8.45	-8.61/-14.11	-11.55/-9.97	-16.04/-11.87	-15.45/-8.86	-13.93/-7.61	-9.57/-6.79	-9.39/-11.13
Θ (142.5°)	-9.70/-10.96	-9.65/-11.90	-13.04/-12.56	-12.10/-13.86	-12.96/-13.05	-15.83/-14.71	-12.60/-15.12	-12.04/-15.17	-10.04/-10.44	-9.58/-14.47	-9.23/-11.87	-13.37/-11.44	-15.27/-6.48	-8.04/-11.37	-10.31/-13.60	-15.59/-11.58	-9.81/-12.52	-14.69/-14.18	-13.71/-9.50	-10.92/-14.11	-15.97/-12.37	-10.66/-11.03	-12.81/-10.93	-11.20/-11.06
Θ (150°)	-10.52/-9.93	-11.79/-10.07	-9.88/-11.56	-13.83/-12.42	-9.22/-7.97	-7.77/-9.17	-11.92/-12.33	-14.06/-15.19	-12.44/-11.77	-11.94/-10.97	-11.79/-12.17	-14.97/-11.06	-14.88/-14.91	-13.15/-14.95	-14.45/-15.95	-14.71/-11.89	-14.85/-15.26	-13.75/-13.31	-14.85/-15.26	-12.53/-11.66	-15.58/-13.36	-12.53/-11.66	-13.22/-11.58	-11.20/-11.64
Θ (157.5°)	-13.88/-11.87	-10.69/-11.90	-13.25/-11.74	-10.17/-9.68	-9.38/-9.26	-9.72/-9.77	-10.12/-11.08	-12.33/-13.47	-14.09/-14.44	-15.95/-13.20	-12.52/-15.37	-15.57/-14.37	-14.68/-14.96	-13.96/-14.67	-14.66/-14.54	-14.20/-13.71	-13.77/-12.43	-11.91/-13.32	-13.23/-11.93	-11.92/-13.04	-13.45/-11.44	-13.35/-15.09	-12.56/-14.00	-15.28/-15.14
Θ (165°)	-12.71/-10.82	-10.68/-12.15	-14.30/-15.46	-15.04/-14.30	-13.43/-13.41	-11.53/-10.43	-11.07/-14.03	-16.15/-15.81	-15.06/-15.49	-14.64/-14.15	-14.50/-15.92	-15.50/-15.32	-15.65/-15.37	-15.13/-15.33	-16.18/-14.66	-12.54/-12.85	-13.23/-13.00	-14.41/-13.00	-10.38/-10.01	-11.63/-13.16	-13.83/-11.98	-11.06/-11.02	-10.36/-10.50	-10.90/-12.48
Θ (172.5°)	-12.40/-12.17	-11.46/-12.58	-12.90/-13.52	-15.59/-15.19	-14.41/-13.36	-13.20/-14.38	-15.54/-16.11	-14.88/-14.52	-14.30/-14.32	-14.58/-15.58	-15.59/-15.61	-14.49/-14.04	-14.21/-14.24	-14.19/-13.77	-13.31/-14.52	-15.37/-15.39	-13.94/-13.24	-13.64/-14.24	-13.71/-14.51	-15.32/-14.37	-13.14/-12.37	-13.03/-13.77	-14.01/-16.09	-13.06/-12.97
Θ (180°)	-15.44/-16.13	-15.72/-14.62	-15.32/-15.64	-15.12/-14.75	-15.10/-14.30	-14.47/-15.24	-14.88/-15.05	-15.52/-15.84	-16.03/-15.09	-15.41/-15.35	-14.56/-14.84	-14.78/-15.17	-15.84/-15.89	-14.92/-15.13	-14.70/-15.47	-13.75/-14.29	-13.62/-14.11	-14.56/-14.70	-14.73/-15.08	-16.02/-16.12	-15.26/-15.25	-16.12/-15.23	-14.37/-15.78	-14.91/-15.14
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°)	-3.14/-3.33	-3.37/-3.04	-3.31/-3.73	-3.85/-3.50	-3.59/-3.52	-3.31/-3.19	-2.86/-3.03	-2.79/-2.56	-2.40/-2.63	-2.62/-2.73	-3.07/-3.21	-2.72/-2.70	-2.26/-2.57	-3.01/-2.60	-2.35/-2.74	-2.51/-2.02	-1.91/-2.09	-2.43/-2.31	-1.96/-1.80	-1.92/-1.96	-2.12/-2.36	-2.17/-1.93	-2.18/-2.61	-2.75/-3.13
Θ (7.5°)	-4.78/-4.53	-3.92/-3.33	-2.95/-2.70	-2.58/-2.11	-1.78/-1.43	-1.24/-1.21	-1.16/-1.38	-1.78/-2.01	-2.46/-1.39	-3.60/-3.91	-4.21/-5.32	-5.61/-5.80	-6.70/-6.44	-7.58/-8.38	-7.54/-7.27	-6.88/-6.11	-5.30/-4.47	-3.84/-3.72	-3.16/-3.25	-3.49/-3.50	-4.07/-4.57	-4.23/-2.40	-4.73/-4.69	-4.33/-4.99
Θ (15°)	-4.03/-4.21	-3.16/-2.36	-1.79/-1.76	-1.79/-2.20	-2.99/-3.40	-3.61/-3.25	-2.90/-2.82	-2.91/-3.31	-4.21/-4.97	-4.51/-3.84	-3.40/-3.16	-3.29/-3.48	-3.60/-3.68	-3.49/-4.66	-6.20/-6.15	-4.53/-2.64	-1.52/-1.23	-1.47/-2.75	-3.98/-4.50	-5.00/-4.81	-4.48/-4.11	-3.94/-3.44	-3.49/-3.66	
Θ (22.5°)	-4.77/-5.48	-5.39/-4.67	-3.59/-3.48	-2.65/-1.47	-1.47/-1.93	-2.73/-2.79	-2.50/-2.66	-2.95/-2.05	-1.04/-1.11	-1.18/-1.87	-2.40/-2.31	-2.26/-2.97	-3.39/-2.68	-2.80/-3.15	-2.84/-2.28	-1.86/-1.42	-1.78/-1.65	-1.59/-1.39	-1.66/-2.74	-3.65/-3.27	-2.88/-3.07	-3.80/-3.87	-2.70/-1.88	-2.08/-3.24
Θ (30°)	-2.98/-4.36	-5.12/-2.99	-1.40/-2.30	-3.56/-4.25	-4.85/-6.17	-4.57/-0.91	-0.12/-0.81	-1.02/-0.54	-0.78/-1.83	-2.17/-2.72	-3.47/-3.44	-4.54/-3.93	-4.63/-1.62	-0.96/-1.58	-4.58/-2.47	-1.93/-0.55	-0.130/25	-1.41/-5.54	-4.42/-2.11	-3.11/-7.38	-11.63/-6.56	-7.83/-5.91	-3.99/-2.44	-1.84/-1.86
Θ (37.5°)	-2.95/-5.32	-4.68/-3.14	-2.34/-4.20	-8.17/-9.75	-3.63/-2.66	-5.63/-1.18	0.69/-1.40	-1.26/-0.78	-0.03/-0.17	0.021/40	1.570/55	-1.95/-3.69	-2.83/-1.94	-1.76/-1.50	-2.82/-3.24	-0.78/-0.60	-1.80/-2.77	-3.38/-2.78	-1.62/-1.98	-0.87/-2.91	-5.63/-3.87	-6.11/-6.69	-4.56/-2.16	-0.66/-0.76
Θ (45°)	0.630/16	0.77/-0.52	-3.09/-3.86	-2.59/-3.88	-5.96/-3.58	-8.74/-3.44	-1.92/-4.01	-0.200/19	0.430/46	-1.95/-1.91	-1.08/-2.98	-3.08/-2.86	-1.00/-1.85	-2.33/-4.27	-5.24/-2.64	-2.170/21	-0.64/-0.70	-1.11/-2.56	1.20/-0.39	-2.34/-2.92	-3.32/-1.94	-3.06/-5.96	-6.78/-3.11	1.39/-1.96
Θ (52.5°)	-1.02/-1.32	0.43/-0.49	-4.24/-3.75	-2.60/-3.64	-6.43/-7.55	-14.43/-2.56	-0.100/63	2.742/38	0.260/-0.19	0.60/-1.30	-0.710/94	0.33/-0.31	0.76/-1.08	-1.380/90	1.171/-42	-0.80/-1.68	-0.93/-1.29	1.33/-4.41	-4.50/-3.49	-4.46/-3.26	-3.57/-6.90	-7.49/-3.76	1.280/62	
Θ (60°)	0.24/-0.17	-1.33/-2.24	-2.32/-4.02	-1.48/-1.61	-2.32/-8.84	-6.65/-3.16	-1.88/-2.27	0.01/-1.34	3.764/37	1.20/-0.38	-0.30/-2.59	-3.49/-19	-1.71/-2.44	-3.11/-0.42	-0.99/-1.26	-0.320/53	-1.26/-4.70	0.25/-2.26	-1.22/-3.03	-7.49/-5.21	-4.65/-1.98	-4.08/-6.81	-7.45/-3.95	0.680/47
Θ (67.5°)	1.92/1.06	-2.70/-4.82	-3.99/-3.83	0.370/29	-0.210/20	-2.53/-3.10	-4.05/-0.30	0.56/-1.90	2.473/63	0.21/-0.60	-0.15/-1.42	-2.000/58	1.060/24	-1.070/45	-0.18/-1.28	0.170/84	-0.49/-3.14	1.16/-2.08	-1.60/-0.79	-5.14/-1.03	-3.31/-0.30	-5.67/-8.24	-8.36/-6.15	-0.150/71
Θ (75°)	1.380/91	-3.67/-6.73	-2.78/-0.01	-0.500/25	1.051/68	0.13/-1.28	-4.28/-1.15	0.44/-0.85	0.322/04	0.68/-1.09	0.490/63	0.751/40	1.51/1.74	0.841/40	-0.17/-0.79	1.882/35	1.24/-1.42	1.77/-0.55	-1.482/31	-1.14/-0.29	-2.29/-0.50	-6.67/-4.98	-6.30/-8.87	-0.08/-1.00
Θ (82.5°)	-0.98/-0.15	-5.57/-7.25	-1.70/-0.11	-1.52/-0.16	1.251/32	0.32/-0.57	-3.27/-1.93	-0.59/-1.63	-1.030/81	1.06/-1.05	-0.06/-0.07	0.982/33	1.151/47	0.280/79	-2.46/-0.61	2.573/27	2.03/0.60	0.570/28	-0.42/0.33	-2.52/-2.11	-7.60/-3.88	-6.40/-8.93	-0.72/-2.51	
Θ (90°)	-4.79/-1.95	-6.03/-6.56	-2.00/-1.01	-2.46/-1.28	0.360/36	-0.32/-1.01	-3.72/-3.88	-2.49/-3.40	-1.87/-0.13	-0.42/-4.89	-2.06/-1.41	-0.910/80	-0.050/67	-0.55/-0.28	-3.86/-2.73	0.952/49	0.71/-1.08	-1.45/-1.70	-0.372/48	-0.65/-1.13	-2.96/-2.77	-8.93/-5.45	-5.81/-12.80	-2.21/-5.19
Θ (97.5°)	-7.08/-3.99	-6.24/-7.93	-3.19/-2.36	-4.26/-2.11	-0.76/-1.29	-1.65/-2.18	-5.26/-7.15	-3.79/-5.40	-3.10/-1.76	-2.20/-5.13	-3.60/-3.59	-2.48/-0.41	-2.07/-3.00	-2.67/-2.58	-5.28/-5.52	-2.45/-0.15	-1.69/-3.06	-4.70/-5.01	-3.29/-0.31	-3.20/-2.50	-4.12/-3.86	-9.76/-8.65	-5.56/-11.76	-4.32/-7.19
Θ (105°)	-8.36/-6.38	-8.03/-8.49	-3.14/-3.49	-5.58/-3.10	-4.39/-4.49	-4.26/-5.11	-7.56/-6.12	-7.80/-6.51	-5.17/-3.44	-3.68/-6.78	-4.20/-5.62	-3.48/-1.59	-4.09/-5.60	-4.22/-7.28	-4.68/-5.58	-6.73/-8.12	-7.10/-9.80	-7.60/-4.53	-5.45/-5.28	-9.48/-7.70	-6.86/-11.22	-6.36/-6.75		
Θ (112.5°)	-8.86/-6.00	-6.87/-8.27	-7.85/-7.94	-6.64/-5.37	-4.41/-5.25	-7.05/-8.47	-11.80/-11.49	-9.93/-6.52	-6.25/-6.06	-5.29/-7.42	-7.61/-8.82	-7.72/-8.67	-7.72/-3.71	-7.75/-7.11	-5.75/-7.77	-4.29/-4.90	-7.42/-8.87	-5.59/-9.62	-10.79/-5.87	-5.47/-7.55	-6.94/-7.95	-8.51/-8.52	-9.89/-12.28	-9.52/-9.44
Θ (120°)	-7.24/-8.86	-7.66/-8.80	-8.09/-10.93	-10.19/-10.03	-8.58/-1.82	-8.98/-10.18	-10.39/-10.16	-12.41/-6.93	-6.96/-5.64	-7.74/-6.75	-7.81/-14.85	-8.63/-6.86	-11.96/-8.36	-6.86/-8.44	-8.01/-5.96	-6.47/-3.90	-7.40/-8.67	-8.26/-7.06	-14.53/-4.67	-6.14/-5.90	-5.54/-7.36	-10.63/-14.03	-12.1/-9.17	-9.12/-10.44
Θ (127.5°)	-12.42/-8.22	-9.13/-12.70	-9.25/-8.46	-11.65/-10.82	-8.87/-9.71	-11.88/-14.93	-16.09/-13.11	-11.41/-7.95	-8.86/-9.87	-10.39/-7.42	-7.42/-8.64	-8.99/-7.9	-7.77/-7.59	-6.78/-5.16	-6.41/-5.85	-7.42/-9.85	-10.09/-8.91	-9.12/-7.74	-9.08/-7.07	-11.57/-10.55	-5.25/-9.92	-6.72/-9.69	-10.66/-9.62	-11.34/-10.83
Θ (135°)	-10.35/-8.14	-11.62/-12.24	-13.13/-8.82	-9.81/-13.71	-14.66/-13.41	-10.79/-13.74	-15.11/-12.27	-13.52/-10.87	-8.21/-11.67	-8.95/-11.04	-11.16/-10.20	-11.24/-11.49	-15.00/-10.13	-6.73/-7.32	-12.76/-7.65	-7.72/-11.66	-9.93/-8.79	-11.51/-15.11	-13.82/-8.42	-11.96/-13.08	-12.25/-7.64	-9.75/-5.34	-10.69/-9.96	-10.60/-9.08
Θ (142.5°)	-11.75/-11.62	-9.71/-11.03	-9.06/-10.53	-7.76/-9.37	-15.56/-14.10	-15.42/-15.41	-15.15/-14.79	-10.02/-12.98	-8.91/-8.11	-8.27/-14.55	-8.66/-8.59	-13.02/-11.90	-13.62/-1.56	-4.92/-8.32	-12.04/-13.08	-15.75/-12.07	-8.28/-10.85	-13.19/-13.78	-10.71/-11.81	-11.18/-14.61	-15.40/-8.67	-8.72/-10.39	-9.74/-8.92	-9.60/-9.55
Θ (150°)	-10.22/-9.52	-12.30/-12.67	-11.09/-8.95	-10.45/-11.27	-8.77/-7.49	-10.88/-12.24	-10.71/-12.97	-12.99/-14.53	-8.86/-8.20	-12.44/-14.82	-12.18/-10.84	-13.71/-8.94	-11.57/-15.00	-14.01/-11.57	-9.61/-12.19	-13.52/-14.46	-14.68/-15.80	-12.03/-12.11	-13.04/-13.81	-12.85/-12.77	-11.82/-11.73	-10.30/-9.86	-11.74/-11.81	-12.63/-10.21
Θ (157.5°)	-14.94/-13.36	-11.21/-10.55	-10.47/-10.55	-10.34/-10.13	-9.75/-9.72	-9.50/-10.24	-10.86/-11.05	-10.90/-11.75	-15.29/-13.38	-10.88/-9.88	-9.24/-11.16	-15.90/-12.13	-13.77/-15.32	-15.58/-12.80	-12.91/-13.03	-14.67/-13.66	-13.26/-11.05	-9.44/-11.20	-11.13/-10.75	-10.39/-12.27	-15.36/-14.83			



Antenna Pattern_Radio 3 & Radio 4

Appendix F

Θ(157.5°)	-13.93/-13.64	-15.33/-13.01	-9.58/-11.38	-11.19/-10.67	-10.29/-9.96	-11.12/-11.14	-11.01/-9.81	-9.12/-8.56	-9.78/-15.22	-14.66/-12.90	-12.06/-15.38	-14.95/-14.00	-13.94/-13.69	-8.26/-9.52	-13.71/-12.11	-13.35/-12.71	-9.37/-11.15	-12.45/-7.91	-8.04/-11.50	-11.10/-11.13	-12.44/-11.05	-12.33/-14.74	-12.03/-11.52	-12.98/-14.34
Θ(165°)	-15.63/-15.40	-14.79/-13.74	-13.92/-14.02	-14.14/-13.40	-13.64/-12.38	-11.86/-11.87	-11.20/-10.91	-11.03/-11.99	-14.98/-14.39	-12.39/-14.97	-14.86/-14.86	-15.29/-15.02	-13.66/-12.43	-14.39/-13.74	-12.71/-10.34	-11.30/-13.93	-14.46/-12.48	-14.04/-13.82	-11.21/-9.45	-10.30/-11.68	-13.11/-13.51	-15.02/-15.53	-13.71/-15.52	-14.94/-14.97
Θ(172.5°)	-15.45/-15.68	-15.53/-14.08	-15.66/-15.37	-15.32/-15.20	-14.35/-14.21	-12.76/-12.42	-14.62/-14.31	-14.74/-15.68	-15.67/-15.77	-15.05/-15.63	-15.62/-15.12	-14.74/-15.13	-14.99/-15.68	-15.55/-15.68	-15.67/-15.72	-14.53/-12.99	-11.34/-9.57	-9.23/-9.37	-9.85/-10.76	-10.95/-11.00	-12.01/-13.54	-13.86/-13.12	-12.83/-13.18	
Θ(180°)	-13.41/-14.34	-12.06/-12.07	-11.66/-11.17	-11.82/-12.47	-13.19/-12.33	-11.71/-12.73	-13.05/-13.42	-12.92/-12.59	-11.98/-12.80	-14.55/-14.97	-15.69/-14.97	-14.06/-13.40	-12.00/-15.41	-15.03/-13.97	-14.58/-15.06	-13.03/-12.45	-13.08/-14.40	-12.87/-13.04	-14.02/-13.87	-12.56/-11.73	-11.05/-11.77	-11.96/-12.00	-12.19/-12.35	-11.45/-11.74
Freq(Hz)	6.995GPol.	TotalAnt. 2	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(62.5°)	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°)	-0.66/-0.96	-0.89/-0.92	-0.27/-0.58	-0.76/-0.61	-0.73/-0.84	-0.66/-0.68	-0.81/-1.01	-0.95/-1.08	-1.29/-1.15	-1.14/-1.09	-0.93/-0.74	-0.81/-0.92	-1.14/-0.74	-0.71/-1.11	-0.89/-0.74	-1.00/-0.91	-0.47/-0.81	-1.02/-0.90	-0.80/-0.46	-0.28/-0.52	-0.72/-0.81	-0.68/-0.79	-0.99/-0.64	-0.31/-0.20
Θ(7.5°)	-3.55/-3.69	-3.77/-3.74	-3.35/-3.09	-3.02/-2.86	-2.83/-2.81	-2.65/-2.98	-2.92/-2.84	-2.72/-2.78	-2.80/-2.65	-2.53/-2.36	-2.35/-2.62	-2.76/-3.06	-2.89/-2.77	-2.93/-2.93	-2.81/-3.03	-3.17/-3.34	-2.96/-3.00	-3.18/-2.91	-2.63/-2.24	-2.38/-2.10	-2.23/-2.24	-2.40/-2.64	-2.74/-2.63	-2.79/-3.04
Θ(15°)	-1.51/-2.13	-3.11/-3.72	-4.36/-5.05	-5.37/-4.78	-4.36/-5.26	-5.47/-5.65	-6.07/-6.17	-5.99/-5.70	-5.48/-4.89	-4.71/-5.16	-5.33/-4.83	-3.45/-1.97	-0.96/-0.69	-1.24/-2.32	-4.23/-6.24	-8.34/-9.24	-8.91/-8.74	-7.48/-7.85	-9.09/-8.01	-6.09/-5.56	-5.76/-6.57	-5.75/-4.71	-3.19/-1.95	-1.50/-1.18
Θ(22.5°)	-3.63/-3.75	-5.69/-7.29	-7.75/-8.14	-9.66/-7.00	-4.26/-3.81	-3.28/-3.78	-5.33/-5.54	-4.10/-2.98	-2.26/-2.31	-3.22/-4.79	-8.04/-7.73	-6.32/-5.96	-6.54/-6.14	-6.45/-14.09	-12.69/-8.57	-8.48/-8.16	-7.56/-6.54	-6.37/-6.41	-5.68/-4.29	-2.61/-2.81	-4.83/-6.92	-7.64/-6.43	-5.56/-6.07	-5.16/-4.13
Θ(30°)	-4.42/-4.94	-6.93/-7.32	-6.98/-5.47	-4.47/-5.13	-5.50/-7.63	-5.61/-1.66	-2.47/-5.28	-4.39/-5.23	-5.57/-5.72	-5.21/-3.95	-2.36/-1.66	-1.86/-2.84	-3.37/-4.06	-4.21/-3.13	-1.97/-2.74	-7.54/-8.69	-7.01/-5.47	-2.87/-3.00	-1.74/-2.60	-3.38/-1.18	-2.13/-2.15	-2.28/-3.57	-6.30/-8.11	-5.20/-4.06
Θ(37.5°)	-1.58/-1.69	-3.13/-6.43	-5.16/-5.54	-7.12/-10.20	-6.50/-2.87	-5.48/-2.17	-1.60/-2.43	-2.72/-3.29	-3.98/-6.04	-7.78/-5.34	-7.41/-4.91	-1.52/-0.80	-2.77/-4.59	-3.89/-4.02	-3.11/-3.40	-3.25/-4.39	-3.65/-4.54	-3.66/-3.66	-3.34/-5.49	-5.73/-3.61	-5.52/-4.48	-5.71/-4.40	-4.21/-8.95	-10.75/-4.57
Θ(45°)	-6.98/-6.46	-2.88/-1.78	-4.62/-5.86	-5.30/-5.28	-5.74/-1.37	-2.19/-0.15	-3.83/-1.49	-1.44/-1.01	-4.63/-8.85	-6.99/-4.03	-3.76/-1.94	0.30/-0.18	-2.40/-1.68	0.19/-0.25	0.19/-1.79	-12.25/-13.34	-3.62/-0.52	-1.40/-2.99	-1.37/-0.45	-2.48/-2.50	-4.73/-6.09	-9.67/-4.21	-0.22/-0.17	-3.70/-7.34
Θ(52.5°)	-0.04/-1.68	-1.77/-2.21	-5.74/-8.22	-6.47/-5.27	-5.02/-1.20	-4.90/-0.27	-4.20/-0.86	-3.29/-6.25	-3.18/-7.53	-3.73/-3.07	-2.59/-1.97	2.37/-1.41	-2.14/-0.05	0.72/-1.92	0.52/-1.93	-6.07/-2.93	0.41/-0.86	-2.05/-2.36	0.01/-0.01	-2.43/-1.48	-3.11/-4.04	-6.35/-5.27	-0.70/-2.22	-4.26/-1.88
Θ(60°)	-3.78/-1.89	1.68/-0.15	-3.56/-8.22	-3.79/-3.81	-4.92/-3.92	-7.49/-3.75	-1.43/-0.24	-6.18/-3.90	-1.20/-7.48	-6.27/-1.08	-0.48/-0.49	2.33/-1.96	1.28/-0.57	3.51/-1.67	2.26/-0.48	-8.01/-8.49	0.17/-3.24	-4.52/-0.93	-1.95/-1.06	-4.44/-4.06	-1.36/-3.20	-6.67/-6.84	-1.64/-1.02	-1.61/-3.19
Θ(67.5°)	-5.30/-2.89	0.50/-0.86	-3.68/-5.13	-0.48/-1.68	-2.54/-3.51	-4.57/-3.56	0.17/-1.96	0.43/-4.40	-3.21/-3.03	-2.95/-1.44	-4.04/-1.17	0.03/-0.80	-1.22/-0.96	2.63/-1.55	0.86/-0.16	-6.11/-6.05	-2.24/-1.05	-3.09/-1.32	-1.85/-0.31	-6.72/-2.70	-0.25/-1.15	-4.02/-3.83	-2.75/-0.98	-0.34/-3.21
Θ(75°)	-1.40/-1.74	-1.37/-1.89	-3.22/-5.39	1.05/-1.62	-2.85/-1.33	-7.47/-5.39	-0.83/-0.69	2.54/-1.55	-3.48/-1.63	-5.02/-0.53	-5.65/-0.64	0.88/-1.85	-6.07/-0.07	0.71/-0.05	0.12/-0.73	-4.12/-0.01	-3.45/-0.55	2.31/-2.15	-1.36/-0.46	-6.99/-0.60	0.24/-0.82	-2.72/-3.31	-3.65/-0.44	-0.41/-0.76
Θ(82.5°)	-1.94/-1.48	-2.00/-2.76	-3.01/-3.47	0.79/-2.05	-1.94/-0.41	-3.28/-3.79	0.13/-0.98	1.03/-2.08	-5.41/-0.59	-6.28/-0.98	-1.97/-0.33	1.45/-0.85	-5.79/-0.28	0.83/-4.22	1.17/-3.20	-3.03/-1.96	-0.77/-0.31	3.66/-1.23	-2.08/-0.57	-1.81/-1.45	-0.81/-0.94	-1.39/-3.24	-4.39/-1.12	-1.03/-0.40
Θ(90°)	-3.40/-2.07	-2.91/-4.01	-3.34/-4.87	-0.15/-2.04	-2.07/-1.56	-3.20/-3.35	-1.64/-0.18	1.28/-3.92	-7.51/-0.52	-7.05/-1.11	-1.92/-1.47	1.33/-1.07	-4.43/-4.15	0.55/-2.88	0.82/-3.38	-5.67/-2.22	-0.02/-0.56	2.27/-1.74	-1.61/-1.37	-0.15/-0.33	-1.67/-0.29	-2.47/-3.78	-4.78/-2.65	-0.63/-1.24
Θ(97.5°)	-5.74/-3.35	-3.21/-6.54	-4.31/-6.69	-1.69/-2.99	-2.01/-2.79	-3.73/-3.98	-3.58/-2.48	-0.80/-5.64	-8.02/-2.80	-9.21/-3.03	-2.03/-4.22	0.34/-3.61	-5.46/-5.78	-6.03/-1.04	-2.07/-5.95	-7.92/-0.08	-4.04/-2.89	-0.90/-9.19	-3.49/-3.15	-0.99/-2.29	-2.80/-1.64	-4.88/-4.21	-5.19/-3.58	-0.66/-3.30
Θ(105°)	-7.25/-5.23	-5.08/-6.53	-6.18/-11.22	-3.13/-5.45	-2.60/-3.97	-7.11/-4.90	-8.05/-4.28	-4.63/-5.66	-13.03/-4.84	-10.99/-4.62	-1.94/-5.63	-2.75/-6.30	-5.13/-9.78	-3.70/-11	-2.30/-5.67	-1.81/-3.85	-7.49/-7.36	-0.66/-14.23	-8.21/-2.59	-3.41/-5.13	-1.37/-7.25	-3.89/-2.07	-2.37/-5.94	
Θ(112.5°)	-6.24/-6.34	-7.20/-6.50	-8.74/-12.93	-7.74/-7.01	-5.19/-3.56	-3.87/-5.80	-7.82/-9.56	-5.15/-7.52	-13.49/-8.52	-11.29/-7.23	-2.87/-5.26	-4.49/-7.81	-7.44/-13.10	-6.54/-1.67	-4.56/-9.32	-10.05/-5.85	-8.20/-4.15	-3.60/-11.43	-4.55/-3.75	-6.62/-6.15	-7.73/-7.55	-12.74/-9.94	-4.22/-4.27	-8.62/-6.89
Θ(120°)	-8.87/-9.78	-7.56/-7.72	-10.97/-11.17	-12.01/-12.55	-9.31/-7.88	-4.59/-5.77	-6.66/-7.39	-9.10/-7.91	-15.29/-5.74	-9.52/-10.02	-6.03/-6.81	-4.40/-11.33	-9.47/-9.71	-9.21/-6.09	-5.82/-11.59	-9.00/-11.47	-8.34/-7.95	-7.92/-13.70	-7.30/-10.62	-9.55/-8.86	-10.17/-14.41	-15.78/-15.10	-8.99/-4.71	-8.18/-6.90
Θ(127.5°)	-12.43/-9.00	-8.40/-12.20	-12.73/-15.34	-14.89/-15.68	-14.97/-8.97	-7.48/-9.50	-12.63/-11.65	-9.82/-10.09	-11.63/-9.89	-8.56/-12.53	-7.07/-5.76	-4.96/-13.29	-11.91/-10.46	-7.83/-7.81	-8.07/-6.81	-8.81/-8.32	-12.12/-5.86	-6.67/-15.88	-7.74/-13.84	-9.45/-9.29	-13.51/-10.68	-8.98/-11.85	-6.77/-6.87	-7.52/-7.78
Θ(135°)	-11.73/-12.32	-9.27/-8.60	-9.31/-13.04	-14.67/-11.33	-13.30/-15.54	-14.05/-9.22	-12.10/-14.33	-9.80/-10.40	-15.24/-8.88	-11.10/-15.30	-15.51/-9.31	-7.20/-13.89	-13.25/-13.44	-13.08/-6.75	-9.93/-13.99	-7.32/-12.73	-8.11/-6.68	-8.82/-13.68	-10.41/-11.32	-8.81/-14.89	-14.70/-8.87	-9.96/-9.08	-8.62/-7.57	-11.21/-11.11
Θ(142.5°)	-14.44/-12.27	-11.87/-10.16	-15.17/-10.41	-10.55/-11.66	-11.77/-12.35	-15.21/-15.60	-15.59/-14.39	-11.80/-11.66	-14.52/-12.74	-13.29/-10.78	-15.06/-11.04	-10.88/-13.82	-13.18/-15.45	-8.06/-8.88	-10.63/-11.75	-7.58/-9.17	-9.32/-7.53	-11.02/-8.46	-9.54/-9.63	-15.48/-16.16	-9.82/-7.88	-8.77/-7.27	-6.33/-11.21	-1.80/-13.68
Θ(150°)	-10.22/-8.43	-10.44/-11.53	-11.29/-9.71	-12.80/-12.23	-13.75/-15.28	-11.73/-12.36	-13.73/-12.13	-11.68/-8.07	-10.57/-12.78	-10.30/-11.63	-14.52/-12.43	-14.45/-11.06	-10.96/-15.53	-11.96/-14.18	-12.10/-10.70	-13.04/-13.14	-12.48/-9.60	-14.33/-11.03	-11.23/-9.18	-11.57/-9.82	-10.79/-10.34	-10.60/-8.14	-10.38/-13.74	
Θ(157.5°)	-14.64/-15.39	-14.12/-10.46	-8.47/-8.86	-8.99/-11.91	-11.70/-8.16	-9.21/-13.46	-11.52/-9.94	-10.23/-8.48	-8.63/-11.98	-14.10/-12.15	-12.70/-12.51	-15.88/-13.98	-12.84/-14.92	-15.00/-15.04	-14.67/-13.79	-13.16/-11.58	-11.74/-14.89	-9.99/-7.72	-10.10/-10.39	-8.58/-11.42	-12.31/-12.58	-9.84/-10.11	-11.91/-11.02	-10.77/-13.56
Θ(165°)	-12.75/-12.23	-10.75/-12.51	-14.90/-13.64	-11.40/-9.42	-10.18/-15.54	-15.37/-14.71	-13.67/-14.72	-14.25/-11.78	-11.39/-9.64	-9.35/-11.44	-12.97/-11.50	-11.85/-12.13	-11.31/-13.49	-14.51/-13.75	-13.62/-13.92	-15.04/-13.89	-12.02/-13.74	-15.62/-14.46	-11.68/-9.71	-9.26/-10.00	-12.29/-15.03	-12.64/-10.98	-10.36/-12.88	-15.51/-13.62
Θ(172.5°)	-12.80/-12.49	-13.06/-15.99	-15.07/-15.16	-14.87/-15.28	-15.42/-13.20	-10.93/-10.76	-12.17/-13.18	-12.40/-11.81	-11.91/-12.41	-14.88/-14.01	-13.12/-11.10	-12.87/-13.62	-14.14/-14.91	-13.77/-15.20	-15.02/-15.32	-14.95/-13.85	-13.47/-11.77	-12.37/-12.75	-12.49/-13.27	-13.43/-13.60	-15.76/-15.72	-15.64/-14.90	-15.51/-15.52	-14.00/-13.58
Θ(180°)	-14.41/-15.61	-15.23/-15.45	-15.86/-15.68	-14.95/-15.23	-15.19/-15.47	-15.06/-15.79	-15.63/-15.03	-13.94/-13.37	-13.21/-15.14	-15.46/-15.26	-13.73/-14.30	-15.73/-15.66	-13.62/-13.92	-14.82/-15.42	-15.27/-13.85	-12.98/-13.05	-12.83/-15.33	-14.99/-15.41	-15.74/-15.47	-15.78/-15.49	-15.02/-15.08	-15.77/-15.71	-15.74/-16.33	-14.86/-14.57
Freq(Hz)	2.45GPol.	TotalAnt. 3	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(62.5°)	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°)	-2.00/-2.01	-1.95/-1.84	-1.79/-1.71	-1.50/-1.19	-0.89/-0.73	-0.69/-0.75	-0.86/-0.88	-0.89/-0.89	-0.91/-0.95	-1.02/-1.11	-1.23/-1.38	-1.52/-1.67	-1.77/-1.77	-1.73/-1.70	-1.71/-1.62	-1.37/-1.11	-0.90/-0.68	-0.42/-0.23	-0.20/-0.29	-0.39/-0.58	-0.84/-1.14			

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



