



Antenna Pattern_6GHz U-NII 5~8

Appendix D

Total Gain Data

Freq(Hz)	6.175G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.31-2.60	-3.08/-3.37	-3.60/-3.19	-2.84-2.76	-2.56/-2.40	-2.62/-2.79	-2.80/-2.20	-2.54/-2.50	-2.64/-2.42	-2.28/-2.58	-2.29/-2.24	-2.85/-3.08	-3.07/-2.80	-2.63/-2.51	-2.48/-2.17	-1.99/-2.00	-2.61/-2.62	-2.55/-1.63	-1.14/-1.10	-1.69/-2.08	-2.11/-2.71	-3.30/-2.03	-1.86/-1.42	-1.17/-1.69
Θ(7.5°)	-1.61/-1.76	-1.92/-2.38	-2.84/-3.14	-3.25/-3.02	-2.82/-2.64	-2.55/-2.25	-2.09/-2.20	-2.25/-2.23	-2.14/-2.08	-2.51/-2.73	-3.01/-3.36	-3.64/-3.66	-3.50/-2.93	-2.66/-2.27	-1.89/-1.77	-1.68/-1.76	-1.99/-1.64	-1.38/-0.98	-0.85/-0.91	-1.10/-1.40	-1.34/-1.57	-1.82/-1.05	-1.10/-0.85	-1.06/-1.32
Θ(15°)	-1.65/-1.91	-2.34/-2.52	-3.10/-3.70	-3.42/-2.46	-1.91/-1.47	-0.89/-0.58	-0.120.45	0.88/0.99	1.14/0.61	-0.53/-1.74	-2.91/-3.78	-3.97/-3.15	-2.13/-1.21	-0.190.14	0.54/1.03	1.73/2.28	2.64/2.63	2.80/2.53	2.51/2.48	2.15/1.47	1.43/1.09	0.21/-0.48	-1.16/-1.09	-1.70/-1.56
Θ(22.5°)	0.97/0.26	-1.46/-3.27	-3.14/-2.14	-0.45/-1.38	2.58/3.38	3.91/4.43	4.85/4.60	4.23/3.53	3.01/2.40	1.57/0.22	-1.57/-2.41	-2.47/-2.15	-1.42/0.02	1.17/1.94	2.33/2.61	2.69/2.69	2.52/2.67	2.49/2.06	2.32/2.05	1.54/1.14	1.36/1.46	1.39/1.39	1.81/2.25	1.35/1.20
Θ(30°)	0.31/0.17	-0.26/-2.19	-2.40/-1.29	-0.39/0.78	1.75/2.63	3.29/3.96	4.17/3.80	2.94/1.79	0.80/0.76	1.11/0.55	-0.56/-1.63	-2.81/-3.88	-1.93/0.90	2.69/3.33	3.19/2.12	0.80/0.38	-0.35/-0.10	-0.43/0.01	0.11/0.21	0.05/0.27	-0.36/-0.12	0.00/0.29	0.66/1.05	1.29/1.15
Θ(37.5°)	1.19/0.68	1.12/0.45	-0.37/-0.39	-1.31/-0.92	0.06/1.03	1.96/2.54	2.99/3.37	3.53/2.53	1.03/-0.42	-1.30/-2.09	-2.50/-3.27	-3.94/-2.82	-0.32/2.47	3.33/2.45	0.90/-1.54	-4.62/-6.06	-5.21/-3.57	-1.98/-2.47	-3.25/-3.39	-2.49/-3.20	-4.67/-6.90	-5.26/-1.90	-0.09/0.83	1.11/1.74
Θ(45°)	0.87/1.58	2.38/1.95	0.22/-0.33	-1.53/-0.73	0.01/0.48	0.28/-0.02	0.51/1.82	2.83/2.60	1.14/-0.47	-1.14/-0.06	0.15/-1.42	-2.88/-2.64	0.89/2.88	3.32/2.36	-0.42/-4.97	-3.92/-2.47	-2.18/-2.92	-3.31/-3.29	-2.78/-2.36	-3.32/-7.30	-7.58/-7.62	-5.32/-3.56	-2.00/0.18	-0.25/-0.21
Θ(52.5°)	-0.70/0.34	1.87/2.37	1.82/0.11	-0.91/0.23	1.26/0.64	-0.92/-2.12	-1.05/0.21	1.07/1.44	1.19/0.36	-0.67/-0.06	0.39/-1.15	-1.95/-0.67	1.46/2.56	3.08/1.88	-3.64/-5.50	-2.99/-3.01	-2.92/-2.97	-3.91/-3.17	-1.73/-1.49	-1.65/-2.44	-3.14/-3.88	-4.74/-5.15	-0.41/0.73	0.24/-1.81
Θ(60°)	-0.96/-0.83	-0.11/0.70	1.02/-0.13	-0.11/1.61	2.46/1.33	-1.30/-4.39	-2.97/-0.10	0.44/-0.21	-0.76/-0.41	-0.96/-0.38	-0.23/-1.39	-3.61/-3.10	-1.56/0.04	1.08/1.19	-0.24/-4.86	-3.79/-3.02	-3.17/-5.18	-6.01/-6.73	-6.10/-3.91	-3.50/-2.11	-2.29/-3.02	-2.78/-1.49	-1.69/-4.05	-3.24/-1.06
Θ(67.5°)	-5.01/-3.87	-2.39/-0.61	-1.09/-0.38	1.27/2.59	2.66/1.57	-0.99/-4.69	-3.55/-0.39	0.40/-0.65	-1.30/-0.08	0.67/0.91	-0.36/-2.73	-4.75/-2.43	-1.10/0.75	1.46/3.19	1.28/-5.10	-6.07/-3.73	-4.68/-5.48	-4.88/-7.53	-10.88/-12.88	-7.07/-3.62	-3.71/-3.78	-3.71/-3.38	-5.82/-4.93	-5.13/-4.54
Θ(75°)	-1.28/-2.71	-3.06/-2.42	-0.82/0.50	1.85/2.58	2.66/1.77	-0.37/-2.07	-1.51/-1.00	-0.09/-1.60	-3.81/-2.02	1.26/1.66	-0.00/-2.67	-5.66/-3.85	-2.85/-1.10	1.37/3.24	-0.34/-5.32	-2.40/-4.08	-2.59/-7.38	-4.97/-2.98	-4.16/-0.71	-8.34/-4.44	-2.85/-2.37	-3.46/-4.02	-4.68/-5.65	-4.41/-1.96
Θ(82.5°)	-1.85/-2.83	-3.90/-2.92	-3.55/-2.39	-1.31/-0.97	0.16/0.30	-0.80/-2.47	-2.66/-1.63	-1.32/-2.50	-6.06/-2.69	1.96/1.06	0.98/-1.15	-7.55/-4.54	-2.91/-0.39	0.61/0.98	-1.58/-2.19	-0.25/-0.09	-2.31/-5.44	-5.17/-4.77	-4.84/-5.55	-5.62/-4.40	-2.29/-1.38	-2.05/-3.08	-2.99/-4.32	-4.81/-2.73
Θ(90°)	-2.04/-4.57	-5.67/-2.78	-2.69/-4.23	-5.27/-8.22	-5.02/-3.28	-3.70/-4.33	-1.72/-0.38	-0.27/-2.99	-8.76/-3.82	1.30/3.08	0.71/-0.82	-4.23/-5.43	-5.34/-3.59	-0.64/-1.21	-3.56/-1.65	2.92/2.46	-2.19/-6.02	-2.15/-1.88	-2.80/-3.89	-5.72/-4.31	-1.48/-0.70	-1.37/-1.91	-1.49/-1.24	-3.24/-2.82
Θ(97.5°)	-1.69/-1.78	-1.98/-1.76	-1.08/-2.79	-8.77/-7.33	-2.20/-1.26	-1.86/-4.06	-1.15/0.95	0.47/1.70	-12.16/-3.33	1.99/2.96	0.44/-4.24	-3.35/-1.65	-4.35/-10.30	-1.13/-0.94	-0.26/1.47	-0.18/0.87	-0.08/-3.15	-5.14/-3.43	-7.10/-6.86	-4.91/-4.67	-5.49/-7.25	-2.03/-2.65	-2.35/-2.12	
Θ(105°)	-1.01/-2.62	-4.16/0.61	1.48/-1.72	-7.83/-3.23	-1.41/-0.96	-3.37/-9.86	-4.40/-1.28	-3.75/-9.34	-8.20/-1.16	1.39/1.22	-1.12/-1.68	0.41/0.28	-0.12/-3.96	1.53/-0.23	0.04/-2.81	0.87/4.05	3.97/2.16	0.83/-0.48	-3.58/-3.10	-3.88/-5.08	-3.05/-3.88	-5.72/-4.71	-5.50/-5.05	-4.81/-2.72
Θ(112.5°)	0.12/1.03	-3.08/-0.28	-0.27/-2.47	-9.71/-5.02	-3.03/-3.13	-3.38/-6.43	-6.35/-4.70	-9.29/-10.79	-5.85/-2.02	-2.15/-2.20	-0.41/-0.29	1.78/1.13	0.51/0.71	2.68/-1.37	-2.27/-2.02	1.79/3.80	2.89/1.26	0.97/0.87	0.29/0.36	-0.32/-2.74	-0.25/-4.45	-4.31/-6.55	-6.97/-4.34	-6.29/-9.20
Θ(120°)	-0.88/-1.49	-1.98/-0.04	0.59/-3.27	-8.69/-11.26	-6.49/-3.75	-5.64/-9.27	-15.88/-10.66	-12.00/-15.94	-10.68/-5.58	-3.32/-3.67	-0.13/-1.44	-1.03/-1.59	-0.05/-2.84	1.85/1.70	1.27/-0.95	-0.47/1.57	1.42/0.39	0.74/1.06	-1.15/-2.30	-0.65/-2.66	-6.57/-4.75	-5.99/-7.98	-8.36/-9.64	-4.70/-2.70
Θ(127.5°)	-2.25/-4.18	-2.62/-1.40	0.08/-2.83	-7.78/-8.90	-4.49/-2.17	-2.71/-7.65	-11.79/-9.12	-6.56/-9.16	-12.90/-2.91	-1.87/-0.11	-0.79/0.37	-2.02/-0.72	-0.59/-0.50	0.90/-0.68	3.38/4.39	1.10/-3.70	-2.14/-1.74	-0.62/-6.15	-5.40/-2.96	-2.87/-8.55	-7.29/-2.60	-7.51/-7.57	-2.56/-6.20	-3.17/-4.12
Θ(135°)	-7.47/-2.65	-2.06/-3.11	-4.32/-11.22	-9.37/-0.34	0.67/2.10	-5.73/-6.97	-3.30/-1.45	-2.49/-4.04	-4.64/-5.59	-1.56/-2.25	-1.76/-3.87	-0.60/-0.10	2.56/3.07	4.39/3.89	5.36/3.16	-2.91/-3.12	0.90/2.00	1.24/-1.79	-3.31/0.75	1.75/-6.48	-5.06/0.27	-3.83/-6.24	-12.72/-5.50	-5.75/-3.82
Θ(142.5°)	-4.70/-6.11	-10.24/-6.27	-7.53/-5.89	-2.48/-2.96	-5.80/-7.49	-4.60/-2.34	-0.96/-0.82	-2.65/-5.26	-6.62/-6.47	-1.70/1.53	2.14/-0.12	-0.32/0.73	-0.24/1.73	1.63/1.73	2.67/1.88	0.31/0.84	0.90/-0.11	-2.97/-2.75	-0.20/0.80	-1.77/-1.63	-4.67/-0.93	-3.97/-4.26	-3.66/-5.84	-4.19/-11.89
Θ(150°)	-4.71/-4.38	-4.02/-6.10	-9.09/-5.72	-0.96/-0.94	-4.46/-6.43	-5.29/-5.48	-2.27/-3.77	-2.79/-3.32	-6.84/-8.16	-3.69/-1.85	-1.53/-0.81	-0.69/-1.29	2.33/3.52	2.34/-0.37	-0.54/-0.51	-1.00/0.37	0.49/-0.68	-4.20/-5.25	-2.36/-1.29	-3.14/-4.59	-2.87/-5.10	-2.87/-5.19	-3.66/-5.48	-4.19/-11.89
Θ(157.5°)	-10.42/-10.04	-8.32/-6.94	-5.67/-8.33	-10.07/-6.43	-5.28/-4.31	-3.95/-3.29	-3.34/-3.72	-4.41/-4.37	-3.84/-3.11	-2.79/-3.20	-5.96/-11.69	-9.17/-3.79	-0.79/-0.14	-2.06/-4.80	-4.88/-2.06	0.54/1.60	0.87/-0.65	-2.48/-5.76	-7.11/-5.88	-4.87/-4.81	-2.96/-1.20	-0.92/-1.49	-0.93/-1.00	-2.44/-6.11
Θ(165°)	-12.64/-11.52	-12.61/-15.82	-12.63/-9.33	-7.01/-5.09	-4.07/-3.16	-2.31/-1.82	-1.47/-1.66	-2.31/-0.34	-3.11/-2.82	-2.95/-3.42	-3.98/-4.29	-4.35/-4.40	-4.00/-1.34	-2.05/-0.76	0.90/2.39	3.15/3.27	2.78/1.93	0.71/-0.44	-1.07/-0.47	0.28/1.14	1.45/1.79	1.67/0.71	-1.43/-5.01	-8.36/-12.77
Θ(172.5°)	-8.42/-11.04	-12.87/-13.71	-13.91/-13.48	-14.82/-12.24	-9.88/-7.70	-6.04/-8.43	-3.76/-3.12	-2.57/-2.62	-3.25/-3.23	-3.08/-2.86	-2.20/-1.32	-0.60/0.96	1.25/-1.66	1.95/2.11	1.79/1.35	0.72/0.32	-0.70/-1.37	-1.24/-1.41	-1.95/-2.68	-4.09/-5.05	-5.35/-6.89	-8.36/-9.71		
Θ(180°)	-3.88/-4.24	-3.57/-3.75	-3.52/-2.95	-2.75/-2.72	-2.82/-3.32	-3.63/-4.04	-4.06/-3.77	-3.40/-3.20	-3.17/-2.78	-2.46/-2.29	-2.52/-2.70	-2.82/-2.99	-3.22/-3.72	-4.25/-4.43	-4.05/-3.45	-3.38/-3.35	-3.11/-3.00	-3.16/-3.86	-4.25/-4.67	-5.12/-5.26	-5.07/-4.46	-3.51/-3.50	-3.79/-4.12	-4.42/-4.65
Freq(Hz)	6.475G/Pol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.51/-0.47	-0.72/-1.03	-1.16/-0.89	-1.00/-0.88	-0.67/0.62	-0.53/-0.16	-0.41/-0.56	-0.60/-1.05	-1.03/-1.16	-1.36/-1.22	-1.04/-0.83	-0.87/-0.28	0.05/0.18	0.33/0.18	0.07/0.19	-0.28/-0.32	-0.73/-0.61	-0.49/-0.52	-0.27/-0.14	0.29/0.24	0.02/-0.12	-0.50/-0.16	0.20/0.82	1.48/0.94
Θ(7.5°)	-0.70/-0.18	0.88/0.79	0.85/0.81	1.08/-1.40	1.56/-1.56	1.49/-1.87	1.91/-1.95	1.57/-1.23	0.98/0.84	0.72/0.49	0.09/-0.16	-0.16/0.08	0.12/0.19	0.46/0.43	0.28/0.10	0.11/0.28	0.59/0.84	0.57/0.50	0.72/0.57	0.29/-0.17	-0.49/-0.62	-1.03/-1.00	-1.18/-0.93	-0.72/-0.77
Θ(15°)	-2.42/-1.73	-0.21/0.92	1.63/-1.82	2.31/-8.85	2.97/2.84	2.63/-2.46	2.90/-1.53	1.14/0.63	0.28/-0.31	-0.85/-1.34	-1.31/-0.98	-0.58/-2.04	0.30/0.55	0.61/0.17	-0.19/-0.55	-0.19/0.33	0.58/0.55	0.95/0.93	1.20/1.51	1.76/1.63	0.80/-0.05	-0.90/-0.62	-1.35/-1.72	
Θ(22.5°)	1.20/-1.49	0.72/0.52	0.86/1.07	1.55/-2.39	2.73/2.89	2.44/-1.58	0.52/-0.96	-2.51/-3.97	-5.20/-5.90	-6.24/-5.73	-4.94/-4.71	-3.89/-3.21	-2.35/-1.52	-1.23/-1.31	-1.56/-1.46	-0.92/-0.29	-0.16/0.40	0.39/0.38	0.77/0.79	0.90/0.95	0.93/0.95	1.03/0.98	0.80/1.09	0.87/1.05
Θ(30°)	1.03/0.56	0.24/-0.28	-1.06/-0.35	0.98/1.93	2.60/2.99	2.99/2.64	1.75/0.10	-1.68/-2.79	-3.81/-4.67	-5.55/-7.32	-8.30/-9.22	-9.24/-8.39	-4.85/-2.58	-0.95/-0.50	-0.46/-0.77	-0.79/-1.01	-1.05/-0.90	-0.61/-0.45	-0.16/0.12	-0.16/-0.56	-0.87/-0.08	0.54/0.99	1.46/1.49	1.47/1.45
Θ(37.5°)	3.42/2.58	0.34/-2.21	-2.77/-1.66	0.55/1.83	2.48/2.82	2.87/2.96	3.60/2.61	1.57/-0.17	-1.47/-1.53	-1.37/-1.78	-2.44/-3.35	-4.35/-5.77	-4.30/-5.95	0.99/1.88	1.26/-0.70	-3.68/-4.78	-4.35/-3.80	-3.36/-3.79	-5.20/-6.00	-6.53/-5.89	-4.94/-4.59	-3.48/-1.96	-0.53/0.67	1.75/3.03
Θ(45°)	2.72/2.02	0.78/-0.33	-0.75/-0.11	0.77/-0.00	-0.84/-0.66	0.69/2.13																		

Θ(15°)	-4.64/-4.48	-4.52/-4.29	-4.78/-5.21	-6.89/-8.58	-10.02/-11.56	-12.85/-13.95	-11.78/-9.71	-8.63/-8.09	-7.56/-7.37	-7.24/-7.30	-8.02/-9.20	-10.36/-11.31	-11.50/-10.54	-9.63/-9.22	-9.03/-9.45	-9.93/-9.52	-8.93/-8.82	-7.96/-7.79	-7.70/-7.27	-7.08/-6.96	-6.72/-6.75	-6.32/-5.54	-5.12/-4.98	-5.31/-4.61
Θ(22.5°)	-3.96/-3.82	-4.07/-4.13	-4.47/-5.20	-6.08/-8.00	-8.96/-10.15	-10.26/-9.42	-8.29/-7.62	-6.90/-6.03	-5.71/-6.72	-7.96/-8.24	-8.30/-8.55	-8.74/-8.25	-8.11/-7.85	-7.42/-7.89	-8.61/-9.73	-9.51/-9.48	-9.48/-7.99	-7.31/-7.01	-6.37/-5.22	-4.44/-4.00	-4.04/-4.61	-5.05/-5.06	-5.08/-5.33	-5.57/-4.32
Θ(35°)	-1.66/-1.27	-1.84/-2.13	-2.87/-4.15	-6.58/-8.91	-10.30/-10.32	-8.93/-7.03	-5.89/-5.40	-4.86/-4.36	-4.20/-4.08	-4.01/-4.16	-4.08/-4.14	-4.28/-4.17	-4.82/-4.93	-5.13/-6.16	-6.27/-7.25	-7.66/-7.65	-8.32/-10.52	-11.91/-10.26	-9.37/-9.04	-8.11/-6.31	-5.98/-5.96	-3.32/-2.36	-1.76/-1.37	-1.58/-1.68
Θ(37.5°)	-2.59/-1.93	-1.48/-1.40	-1.86/-2.28	-3.53/-4.48	-5.22/-4.57	-3.75/-3.57	-3.74/-4.00	-3.64/-3.82	-3.88/-3.56	-3.16/-3.09	-3.26/-3.20	-2.37/-1.73	-2.54/-2.95	-2.84/-3.83	-4.76/-4.53	-5.28/-7.11	-7.82/-8.01	-9.85/-13.31	-10.95/-7.34	-5.74/-4.74	-3.53/-2.73	-1.48/-0.80	-0.25/-0.38	-1.18/-1.74
Θ(45°)	0.911/0.08	1.06/1.06	0.61/-0.40	-1.63/-2.28	-2.65/-2.87	-3.41/-3.87	-3.56/-2.59	-1.42/-0.85	-1.17/-1.87	-2.36/-1.79	-0.67/-0.32	-0.060/-27	-0.46/-0.76	-0.33/-1.32	-2.03/-2.57	-3.47/-3.34	-4.28/-4.93	-5.89/-5.88	-4.54/-3.80	-3.85/-3.00	-2.09/-1.17	-1.01/-0.66	0.31/-1.20	1.421/0.00
Θ(52.5°)	1.290/88	1.261/96	1.960/72	-1.27/-2.56	-4.02/-5.92	-9.74/-9.41	-7.55/-6.05	-4.06/-1.69	-0.150/-45	0.381/-25	1.561/-28	0.841/-36	1.580/-97	0.70/-0.24	-0.39/-0.70	-1.53/-2.49	-3.04/-3.34	-3.80/-2.70	-1.92/-1.01	-0.240/-0.90	0.490/90	1.181/99	2.451/69	
Θ(60°)	2.672/76	2.542/76	2.621/01	-1.16/-2.15	-2.78/-4.64	-5.55/-4.78	-4.65/-5.62	-6.72/-4.33	-1.110/29	0.770/31	0.160/86	1.971/73	1.872/69	2.392/42	1.820/70	0.24/-0.09	-1.31/-2.71	-4.13/-4.32	-4.02/-3.27	-2.31/-1.76	-1.22/-0.18	0.841/35	2.273/02	2.942/43
Θ(67.5°)	2.792/98	3.283/26	2.380/38	0.020/51	-1.43/-4.13	-3.78/-2.61	-3.16/-4.54	-4.94/-2.41	-0.200/-56	0.740/94	0.790/63	1.962/35	2.993/82	3.942/86	1.75/147	2.121/08	-0.35/-1.27	-1.56/-0.92	0.010/38	0.210/36	-0.53/-1.40	-0.790/72	1.422/58	3.853/14
Θ(75°)	2.933/10	3.223/23	2.440/67	0.540/76	-1.62/-3.60	-2.30/-0.69	-0.41/-2.31	-4.57/-3.61	-0.96/-0.03	-0.370/05	1.311/89	2.493/13	2.663/52	3.242/54	2.262/63	2.451/-58	0.43/-0.38	-0.300/-19	0.341/03	0.770/30	-0.310/36	0.721/69	1.632/15	2.962/66
Θ(82.5°)	2.823/30	2.532/30	1.38/-0.77	-0.130/72	-0.40/-1.04	0.711/90	1.68/-0.55	-3.51/-4.46	-1.31/-0.12	-1.02/-1.10	0.972/51	2.682/70	2.683/61	3.662/69	2.242/48	1.441/07	-1.05/-1.82	-1.90/-0.29	0.611/51	1.700/58	0.24/-0.09	0.310/40	0.971/40	2.322/15
Θ(90°)	2.673/30	2.581/86	0.96/-0.83	-0.161/30	-0.04/-1.13	0.952/25	2.491/-46	-0.64/-2.80	-1.68/-0.64	-1.17/-0.83	1.633/30	3.251/98	0.821/-58	2.281/95	1.090/76	-0.46/-0.72	-1.65/-0.80	-0.320/36	0.890/74	0.011/-1.31	-1.64/-0.92	0.110/62	0.961/64	2.802/65
Θ(97.5°)	2.651/78	0.020/56	0.07/-0.73	1.232/20	0.03/-2.17	-0.780/33	-0.201/-169	-4.77/-5.84	-1.84/-0.66	-0.053/13	1.472/53	2.370/69	0.492/00	2.922/95	2.210/90	0.02/-1.61	-1.22/-1.68	-1.29/-0.66	0.961/27	0.41/-0.46	-1.75/-1.58	-1.60/-1.72	-1.310/97	1.542/16
Θ(105°)	0.48/-1.18	-1.70/-2.16	-1.29/-0.96	1.152/64	0.78/-3.41	-2.64/-0.50	-0.44/-1.89	-7.58/-8.20	-2.72/-0.04	-0.210/60	0.060/20	0.39/-1.13	-1.61/-0.00	0.711/58	1.530/27	0.12/-0.08	-1.15/-0.78	0.240/71	1.761/60	-0.15/-0.56	-1.07/-1.08	-1.58/-2.25	-2.030/31	0.971/52
Θ(112.5°)	0.28/-1.43	-4.16/-6.32	-2.75/-3.39	-1.81/-0.52	-1.58/-5.96	-6.02/-3.46	-1.74/-4.14	-8.38/-4.34	-0.73/-2.71	-0.06/-0.97	-0.43/-2.37	-1.32/-2.43	-2.77/-2.59	-0.980/75	-0.010/00	0.81/-0.93	-2.18/-3.64	-2.70/-2.19	-0.51/-0.58	-1.57/-0.72	-0.34/-0.94	-3.03/-2.77	-3.04/-0.09	-0.060/23
Θ(120°)	-1.04/-0.47	-5.71/-4.92	-6.60/-5.67	-3.80/-4.73	-4.31/-3.09	-3.51/-4.50	-8.62/-12.70	-7.50/-3.77	-3.81/-7.60	-11.31/-5.19	-2.87/-5.92	-4.39/-3.71	-2.73/-5.58	-4.67/-3.02	-3.67/-4.54	-2.54/-1.70	-2.83/-3.85	-4.85/-5.83	-2.54/-4.52	-5.46/-3.22	-2.39/-2.42	-3.79/-4.47	-7.31/-4.80	-3.79/-3.89
Θ(127.5°)	-6.90/-10.35	-7.28/-5.31	-14.49/-7.53	-5.40/-10.05	-14.44/-5.26	-3.72/-6.14	-9.94/-12.99	-6.19/-5.49	-8.50/-11.84	-10.34/-9.99	-13.91/-10.38	-9.87/-8.54	-6.36/-5.72	-5.33/-3.69	-3.24/-5.18	-6.52/-3.68	-3.39/-2.89	-3.61/-4.77	-11.28/-5.16	-3.72/-6.59	-8.39/-7.23	-13.15/-13.60	-11.35/-9.82	-9.81/-11.71
Θ(135°)	-7.44/-9.98	-5.48/-5.50	-10.23/-12.56	-8.07/-6.39	-8.85/-11.69	-15.32/-14.70	-1.79/-10.73	-9.28/-6.97	-6.50/-7.73	-10.99/-14.37	-13.63/-13.23	-14.29/-14.32	-10.52/-8.48	-6.66/-4.41	-3.29/-4.90	-7.90/-9.18	-7.48/-5.38	-2.94/-5.35	-5.12/-4.34	-5.35/-13.28	-7.67/-7.70	-14.71/-10.03	-9.53/-11.97	
Θ(142.5°)	-15.80/-8.85	-10.17/-7.67	-8.65/-0.99	-13.62/-13.96	-8.65/-9.48	-6.85/-9.48	-10.25/-9.31	-1.81/-6.60	-11.71/-15.43	-13.16/-11.34	-10.85/-13.24	-10.60/-13.06	-1.56/-6.87	-6.59/-5.98	-7.26/-6.70	-7.91/-8.28	-4.83/-6.86	-6.38/-3.11	-1.37/-2.60	-6.14/-15.25	-3.93/-2.68	-6.40/-10.66	-14.91/-10.35	-7.46/-11.83
Θ(150°)	-9.18/-5.64	-11.11/-11.25	-8.26/-6.56	-11.76/-9.78	-8.04/-7.66	-6.33/-6.32	-8.03/-11.60	-12.61/-9.13	-7.00/-7.12	-9.49/-11.76	-13.61/-15.06	-14.11/-15.20	-15.37/-12.78	-13.95/-15.21	-13.32/-12.49	-12.72/-11.27	-9.77/-12.46	-7.08/-5.21	-5.63/-6.41	-6.65/-5.43	-5.24/-6.62	-9.45/-13.14	-11.83/-13.33	-11.72/-10.41
Θ(157.5°)	-13.34/-11.53	-8.11/-6.58	-6.42/-6.77	-8.62/-11.97	-13.89/-13.25	-10.63/-10.54	-11.99/-11.35	-9.47/-7.06	-6.66/-8.42	-12.49/-11.76	-12.50/-16.03	-11.15/-9.96	-14.46/-15.32	-14.27/-12.94	-9.97/-8.63	-7.86/-8.06	-8.81/-10.26	-9.61/-7.68	-8.25/-8.13	-7.30/-6.30	-4.66/-4.24	-5.40/-6.51	-5.19/-4.29	-4.63/-5.96
Θ(165°)	-9.02/-9.69	-8.51/-7.88	-6.99/-7.05	-8.12/-8.96	-8.97/-9.33	-10.86/-10.13	-8.96/-9.73	-7.52/-7.15	-6.76/-6.86	-7.96/-7.10	-12.71/-10.03	-8.25/-8.53	-12.80/-9.50	-6.96/-6.95	-9.32/-12.78	-14.86/-15.22	-15.38/-13.51	-13.46/-11.81	-10.39/-8.21	-6.50/-6.48	-7.23/-7.96	-7.59/-6.52	-5.70/-7.18	
Θ(172.5°)	-8.11/-8.03	-7.23/-5.79	-6.23/-8.98	-11.18/-12.48	-12.41/-12.16	-12.68/-12.63	-11.40/-9.77	-8.60/-7.70	-6.77/-6.01	-5.60/-5.88	-6.69/-8.38	-9.72/-10.91	-11.07/-10.08	-9.45/-8.66	-8.52/-9.13	-10.31/-12.02	-11.73/-11.22	-10.59/-9.54	-9.53/-9.94	-11.31/-13.89	-11.45/-8.23	-6.53/-6.49	-7.15/-8.46	
Θ(180°)	-15.73/-15.59	-15.67/-15.43	-15.09/-13.71	-11.78/-12.64	-11.61/-11.82	-11.82/-12.65	-12.83/-13.54	-14.38/-14.82	-15.87/-15.12	-13.57/-12.32	-10.95/-9.73	-9.01/-8.59	-8.97/-9.37	-9.55/-9.07	-8.91/-8.61	-8.22/-8.09	-8.26/-8.02	-7.61/-7.34	-7.16/-7.05	-7.29/-6.90	-6.90/-6.92	-6.59/-6.60	-7.74/-9.50	-11.63/-14.17
Freq(Hz)	6.475GHzPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-6.95/-7.22	-7.33/-7.54	-7.62/-8.31	-8.52/-8.78	-8.96/-8.23	-7.28/-6.31	-6.45/-6.79	-7.01/-4.72	-7.47/-1.75	-7.11/-6.64	-6.48/-6.41	-6.16/-6.93	-5.93/-5.96	-6.50/-6.69	-6.89/-7.06	-7.08/-6.94	-7.30/-7.56	-7.23/-6.86	-6.76/-7.08	-7.23/-7.07	-6.78/-6.94	-7.16/-7.17	-6.61/-6.91	
Θ(7.5°)	-6.96/-7.09	-7.11/-5.53	-5.94/-6.09	-6.08/-5.98	-6.24/-6.94	-7.32/-7.59	-7.10/-7.17	-6.93/-5.98	-5.71/-6.11	-6.68/-7.07	-7.54/-7.80	-8.79/-8.35	-7.89/-7.50	-7.47/-7.37	-7.38/-7.38	-7.17/-6.93	-6.64/-6.73	-6.96/-7.41	-7.36/-6.54	-6.20/-6.20	-6.14/-6.28	-5.60/-5.35	-6.46/-6.53	
Θ(15°)	-4.72/-5.24	-5.40/-5.71	-5.84/-6.54	-7.09/-7.91	-8.26/-8.95	-8.73/-9.08	-10.72/-11.37	-11.00/-9.70	-8.69/-7.80	-6.52/-5.95	-5.61/-5.91	-6.36/-6.56	-6.48/-5.68	-4.73/-4.26	-4.14/-4.79	-5.45/-6.58	-8.09/-8.95	-8.64/-8.73	-9.34/-8.76	-7.76/-6.94	-6.10/-6.07	-4.89/-3.88	-2.73/-2.14	-3.07/-3.59
Θ(22.5°)	-4.45/-4.51	-5.03/-6.40	-7.02/-7.65	-8.54/-9.11	-7.48/-8.55	-4.47/-3.86	-4.07/-4.28	-4.75/-6.26	-7.93/-8.36	-8.12/-6.55	-5.58/-5.89	-7.17/-7.43	-6.03/-4.05	-2.76/-2.60	-3.91/-5.84	-8.24/-8.27	-6.82/-5.99	-5.85/-6.00	-5.75/-5.39	-5.37/-5.15	-5.31/-5.30	-5.76/-5.11	-4.12/-3.41	-4.03/-3.88
Θ(30°)	-4.53/-4.54	-5.11/-4.43	-5.94/-8.68	-10.19/-11.13	-8.64/-7.37	-6.44/-5.22	-4.15/-3.15	-2.81/-3.15	-4.26/-5.56	-7.31/-9.99	-9.83/-7.51	-6.69/-6.41	-4.54/-2.54	2.39/-4.00	-6.27/-7.28	-6.01/-6.25	-5.86/-6.79	-7.72/-10.32	-12.04/-12.35	-10.75/-9.17	-8.10/-6.75	-5.22/-4.79	-4.97/-4.71	-4.60/-4.37
Θ(37.5°)	-3.39/-3.92	-3.71/-3.65	-4.64/-6.43	-8.09/-13.13	-13.19/-11.27	-9.93/-9.16	-7.79/-6.82	-6.00/-4.57	-3.44/-3.30	-3.58/-4.50	-4.95/-4.62	-4.50/-4.57	-3.12/-1.38	-1.88/-3.75	-5.31/-5.78	-5.47/-5.21	-5.46/-5.87	-6.97/-9.71	-9.14/-10.49	-8.91/-6.70	-4.41/-3.48	-2.53/-1.86	-2.16/-2.37	-2.03/-1.62
Θ(45°)	-1.87/-2.17	-1.58/-1.45	-1.60/-1.67	-2.42/-3.17	-2.81/-2.06	-1.46/-1.83	-2.14/-2.22	-2.53/-2.96	-4.02/-4.59	-3.09/-2.10	-2.61/-2.90	-1.90/-0.97	-0.160/-76	0.88/-0.22	-1.77/-2.70	-3.16/-3.98	-4.12/-4.49	-4.23/-5.15	-5.91/-6.15	-6.30/-5.00	-2.68/-1.06	0.421/-15	1.341/-15	0.62/-0.28
Θ(52.5°)	1.520/98	1.081/05	1.330/86	-0.56/-1.18	-1.58/-2.18	-3.84/-5.35	-4.93/-3.65	-2.49/-1.26	-0.55/-1.12	-1.60/-0.33	0.460/66	0.420/32	0.841/71	1.430/32	-0.11/-0.20	-0.82/-1.80	-2.58/-2.96	-3.19/-3.29	-3.60/-3.25	-3.57/-2.23	-0.950/35	1.812/81	3.242/77	2.641/89
Θ(60°)	0.130/-41	2.142/-80	2.110/-57	-1.86/-2.48	-3.10/-5.84	-5.95/-5.45	-4.24/-4.51	-3.57/-0.88	1.372/-22	1.240/-52	0.660/94	1.062/10	2.734/-7	3.372/50	1.861/-58	-3.68/-2.03	-3.56/-2.86	-3.08/-1.81	-1.93/-2.09	-1.63/-1.43	-0.83/-0.24	1.172/-62	3.313/03	2.472/-11
Θ(67.5°)	2.112/09	2.933/86	4.012/-42	1.351/-35	0.44/-3.53	-5.18/-2.70	-1.81/-3.04	-4.83/-4.64	-1.121/-19	2.142/-13	1.711/-67	1.710/-96	2.062/-63	2.732/-49	2.171/-66	0.961/-40	-0.160/-35	1.021/01	1.690/-95	1.161/-39	1.090/-21	1.031/-82	3.193/-91	3.313/-09
Θ(75°)	2.553/-14	4.003/-72																						



Antenna Pattern_6GHz U-NII 5~8

Appendix D

Θ(67.5°)	-1.96/-2.62	-4.30/-0.47	1.94/1.83	0.61/-0.80	-1.92/-2.48	-3.21/-3.93	-3.88/-2.73	-1.81/-1.50	-1.74/-1.99	-1.300/-0.9	-0.09/-2.21	-4.20/-1.99	0.20/-1.38	-2.30/-2.59	-3.42/-3.64	-3.55/-3.43	-2.98/-0.38	2.32/0.05	4.91/4.75	3.79/2.35	0.17/-1.49	-1.58/-1.17	3.00/2.65	-0.60/-2.53
Θ(75°)	-2.53/-1.91	-2.06/-0.23	2.23/3.00	1.98/-0.76	-2.14/-1.40	-2.66/-5.20	-4.26/-1.02	0.54/-0.17	-3.18/-4.94	-1.91/0.52	0.82/-1.33	-4.50/-2.94	-3.38/-4.47	-2.16/-0.45	-1.07/-1.10	-3.01/-5.48	-4.11/-0.14	4.60/0.00	6.135/9.92	4.10/2.78	1.13/0.69	0.28/-1.17	3.45/3.71	1.11/-1.56
Θ(82.5°)	0.58/-1.56	0.86/-1.41	2.90/3.39	1.01/-1.27	-0.96/-0.40	-1.21/-2.03	-1.71/0.32	1.28/-0.26	-3.54/-6.09	-2.89/-0.45	-0.54/-3.57	-5.93/-3.81	-5.06/-4.65	-0.55/-0.69	-2.43/-2.32	-4.79/-7.47	-6.03/-0.73	3.17/5.06	5.68/5.14	3.29/0.50	-0.10/-0.36	-0.88/-1.13	1.08/3.10	1.99/0.39
Θ(90°)	-1.63/-0.07	0.89/1.96	2.43/2.66	1.38/-1.91	-2.50/-0.80	-0.73/-2.26	-3.38/-0.81	0.68/-0.20	4.53/-12.23	-7.05/-5.02	-3.24/-3.12	-5.09/-4.88	-1.72/-2.54	0.57/0.77	-2.22/-3.71	-4.97/-10.91	-8.08/-2.84	0.50/0.02	4.81/4.34	3.24/0.46	-0.78/-0.11	0.96/0.72	0.73/2.63	2.86/-0.65
Θ(97.5°)	1.83/0.37	2.42/0.50	-0.49/-1.51	2.01/0.90	-0.34/-0.62	-1.05/-2.63	-2.59/-1.30	-0.56/-2.10	-5.71/-4.54	-5.49/-4.59	-1.34/-3.16	-9.11/-4.11	-1.60/-6.10	-1.15/-0.11	-2.39/-7.26	-6.51/-14.63	-5.79/-1.32	1.14/4.02	4.55/5.28	3.71/0.25	-1.43/-0.08	1.02/0.40	-2.36/0.32	3.72/2.27
Θ(105°)	0.184/0.00	3.16/1.42	0.64/1.29	1.63/0.35	-0.06/-0.28	-0.63/-2.29	-6.23/-4.22	-2.75/-2.26	-1.56/-3.84	-1.14/-0.73	-0.99/-3.43	-9.20/-7.75	-1.23/-8.93	-5.19/-1.84	-2.34/-7.34	-4.94/-10.48	-2.35/0.68	1.56/2.71	3.13/3.38	1.71/-0.78	-1.58/-0.25	0.60/0.90	-0.28/-1.02	2.05/-1.17
Θ(112.5°)	0.42/1.01	0.63/-1.92	-5.13/-1.51	2.32/3.99	3.03/2.05	-1.36/-4.01	-6.29/-5.14	-3.78/-2.91	-2.68/-9.71	-9.78/-5.43	-3.55/-5.16	-8.75/-6.76	-0.85/-12.76	-7.41/-4.39	-3.23/-9.19	-3.57/-7.43	-2.52/0.55	1.62/0.38	1.52/1.40	-1.15/-3.60	-4.11/-1.15	0.21/1.13	0.79/-2.74	1.51/-0.31
Θ(120°)	-3.88/-0.76	2.06/0.49	-2.89/-2.77	0.55/1.88	0.90/-2.06	-3.77/-5.07	-3.93/-4.50	-6.00/-5.16	-6.38/-9.28	-7.06/-6.68	-6.39/-8.56	-6.75/-8.22	-2.07/-6.48	-7.12/-7.30	-3.32/-6.78	-9.32/-5.45	-3.73/-2.37	-1.77/-8.26	-6.04/-7.58	-4.25/-3.62	-5.94/-4.87	-1.06/-0.45	-0.70/0.27	1.02/-3.10
Θ(127.5°)	-3.15/-0.75	0.15/-1.43	-2.12/-1.54	0.06/0.64	0.09/0.20	-0.60/-2.02	-2.96/-4.97	-5.64/-6.27	-7.92/-11.57	-13.79/-5.91	-4.63/-6.93	-6.49/-5.16	-2.88/-5.80	-5.82/-10.41	-4.53/-5.79	-13.20/-2.34	-1.45/-2.13	-1.91/-2.64	-6.77/-4.94	-1.32/-4.42	-8.60/-1.82	-0.88/1.43	0.89/1.32	1.73/-0.81
Θ(135°)	-3.24/-2.22	-0.66/0.88	0.21/-0.54	-0.57/-0.03	0.09/-0.77	-2.05/-2.97	-3.10/-3.70	-3.89/-2.99	-5.24/-6.46	-4.88/-6.62	-5.54/-5.29	-3.16/-4.89	-2.13/-5.79	-6.56/-10.22	-7.51/-7.04	-12.51/-7.19	-3.81/-2.24	-6.86/-7.96	-8.53/-8.30	-1.06/-4.53	-4.69/-3.70	-0.82/-1.65	0.14/2.08	1.20/-0.20
Θ(142.5°)	-0.69/-1.08	0.19/-0.08	-0.29/-0.26	-0.47/-0.75	-0.57/-5.75	-6.80/-8.07	-10.86/-15.13	-10.63/-7.53	-6.31/-5.51	-5.63/-5.30	-6.21/-7.66	-9.20/-6.40	-5.11/-5.46	-8.58/-9.59	-9.79/-13.82	-12.61/-7.95	-5.25/-9.94	-5.08/-4.35	-5.99/-3.87	-8.31/-8.08	-5.53/-4.90	-5.33/-4.55	-5.62/-2.02	-1.32/-0.88
Θ(150°)	-2.24/-2.33	-3.17/-4.23	-5.54/-4.84	-2.40/-1.54	-2.13/-8.85	-6.30/-9.91	-10.09/-6.42	-5.12/-5.31	-6.15/-10.20	-14.61/-13.79	-5.55/-1.39	-0.03/-0.40	-4.17/-5.72	-6.50/-14.53	-14.84/-12.03	-7.37/-4.83	-5.27/-8.31	-12.73/-9.36	-5.30/-7.29	-12.78/-10.23	-7.98/-6.56	-8.23/-9.07	-4.60/-3.92	-7.82/-4.66
Θ(157.5°)	-5.33/-7.97	-5.99/-3.35	-0.64/1.54	2.67/3.33	3.36/3.00	1.69/-0.06	-2.18/-3.62	-2.74/-0.90	0.67/0.99	-0.50/-2.16	-5.39/-10.92	-6.18/-7.71	-9.01/-6.83	-6.15/-4.75	-3.95/-2.94	-3.23/-5.74	-8.84/-9.88	-12.59/-14.73	-12.99/-15.21	-8.29/-3.11	-1.50/-1.35	0.13/0.66	-0.58/-1.56	-2.04/-2.98
Θ(165°)	-7.14/-1.78	-5.04/-2.67	-1.13/-0.23	0.42/1.03	1.27/0.94	-0.11/-2.50	-5.28/-5.78	-4.13/-2.63	-2.06/-1.60	-1.12/-1.20	-3.14/-5.46	-6.19/-6.98	-7.57/-7.15	-7.56/-8.92	-11.35/-10.48	-7.46/-5.85	-5.56/-6.82	-8.17/-8.72	-7.59/-4.93	-2.42/-0.83	0.15/-0.10	-1.01/-1.82	-2.43/-2.54	-3.49/-5.48
Θ(172.5°)	-4.27/-2.95	-2.26/-1.78	-1.11/-0.96	-1.18/-1.41	-1.50/-1.81	-2.49/-2.99	-3.06/-4.03	-5.64/-7.91	-8.95/-8.46	-7.40/-6.48	-4.38/-5.42	-6.66/-7.54	-7.43/-7.45	-7.62/-7.78	-12.70/-12.14	-11.88/-9.39	-6.86/-5.34	-4.97/-4.57	-4.28/-5.10	-6.74/-7.23	-6.82/-7.09	-7.83/-7.43		
Θ(180°)	-9.58/-11.56	-13.11/-12.89	-13.54/-12.88	-10.37/-9.55	-9.58/-9.40	-9.51/-9.75	-7.86/-6.32	-5.42/-4.61	-4.00/-3.97	-4.20/-4.26	-4.37/-5.07	-6.36/-7.24	-7.39/-6.60	-6.16/-6.17	-5.63/-5.73	-5.96/-6.71	-6.65/-6.73	-6.89/-6.59	-6.51/-6.24	-6.04/-6.45	-7.20/-7.67	-8.17/-8.44	-8.85/-8.53	-8.09/-8.37
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°)	-1.99/-2.27	-2.56/-2.84	-2.31/-1.80	-1.66/-1.95	-2.23/-2.79	-2.93/-2.98	-2.18/-1.61	-1.28/-1.51	-1.98/-2.25	-2.39/-2.25	-1.80/-1.39	-1.23/-1.36	-2.02/-2.71	-2.97/-2.41	-1.92/-1.81	-1.82/-1.46	-1.58/-2.04	-2.45/-2.64	-2.56/-2.46	-2.08/-1.88	-2.04/-2.02	-1.89/-1.73	-1.98/-2.05	-2.54/-2.43
Θ(7.5°)	-2.47/-2.41	-2.15/-2.08	-2.00/-2.15	-2.31/-2.51	-2.55/-2.36	-2.09/-1.92	-2.27/-2.21	-2.02/-2.13	-1.80/-1.63	-1.52/-1.49	-1.13/-1.29	-1.30/-1.68	-2.09/-2.38	-2.64/-2.57	-2.40/-1.89	-1.59/-1.55	-1.44/-1.49	-1.91/-1.91	-1.21/-1.83	-1.93/-2.07	-2.04/-1.92	-1.97/-2.29	-2.94/-3.49	-3.81/-3.09
Θ(15°)	-3.48/-3.07	-2.40/-2.10	-2.05/-2.13	-1.72/-1.62	-1.72/-1.75	-1.58/-2.16	-1.93/-1.77	-1.91/-2.00	-2.72/-3.05	-2.92/-2.90	-3.26/-4.09	-4.94/-6.68	-3.90/-3.06	-2.22/-1.09	-0.27/0.38	0.09/1.28	1.30/0.08	0.91/0.93	0.45/0.47	1.04/0.53	-0.58/-1.22	-2.15/-3.62	-4.40/-4.63	
Θ(22.5°)	-5.11/-4.56	-3.67/-3.33	-3.39/-2.48	-1.67/-1.59	-2.15/-2.89	-4.61/-6.08	-5.92/-5.58	-5.54/-6.77	-6.90/-5.63	-4.49/-4.59	-5.29/-5.69	-5.41/-4.65	-4.78/-4.17	-2.96/-0.95	1.02/2.04	2.13/1.88	1.62/1.05	0.36/-0.35	-0.99/-0.64	-0.68/-0.84	-1.00/-1.31	-1.60/-1.64	-1.94/-3.56	-5.70/-6.20
Θ(30°)	-5.08/-3.33	-2.55/-1.71	-1.02/-0.80	-1.15/-1.65	-2.31/-3.14	-3.70/-4.85	-4.84/-9.68	-4.13/-8.11	-5.36/-4.22	-3.46/-4.32	-3.84/-7.46	-5.23/-5.34	-5.04/-3.66	-1.30/0.84	1.63/1.74	1.05/-0.24	-1.53/-1.47	-0.42/0.66	1.15/1.08	0.64/0.42	-1.03/-1.28	-1.66/-2.45	-5.01/-5.57	
Θ(37.5°)	-4.07/-3.45	-3.72/-3.94	-4.31/-4.16	-5.23/-4.78	-7.52/-7.36	-7.71/-6.59	-9.39/-9.15	-9.77/-10.97	-11.10/-9.72	-7.46/-5.06	-4.56/-5.22	-6.18/-8.07	-7.31/-4.85	-8.03/-1.12	1.68/0.66	-1.66/-2.23	-2.10/-1.23	-0.37/0.53	1.28/1.77	1.98/2.08	1.02/-0.16	-1.18/-1.43	-1.77/-1.87	-2.87/-4.06
Θ(45°)	-5.79/-5.87	-4.86/-3.79	-3.42/-5.23	-5.51/-4.20	-3.59/-4.69	-6.57/-7.87	-8.06/-8.51	-8.53/-8.60	-9.35/-13.30	-11.74/-8.54	-5.74/-3.26	-2.38/-3.65	-4.67/-2.85	-0.54/0.37	-0.40/-2.38	-2.74/-1.59	-0.60/0.02	0.76/-0.02	-0.93/-1.35	-0.35/0.28	1.18/0.79	0.89/-0.51	-0.99/-1.83	-2.62/-4.21
Θ(52.5°)	-4.15/-4.08	-4.05/-4.61	-5.11/-3.84	-1.63/-6.56	-1.14/-2.83	-3.94/-4.45	-6.57/-10.46	-15.24/-14.39	-11.76/-8.23	-6.02/-4.53	-3.45/-1.64	-1.28/-1.97	-2.91/-1.66	-1.26/-0.98	-2.15/-2.53	-0.65/0.08	0.15/0.01	0.53/0.62	0.46/0.68	-0.32/-0.94	-0.03/0.89	0.95/1.36	0.16/-1.25	-1.98/-4.13
Θ(60°)	-4.62/-5.06	-5.98/-4.63	-5.56/-2.06	0.51/0.88	-0.22/-4.40	-3.96/-4.65	-4.70/-5.53	-8.35/-11.67	-7.13/-6.42	-2.56/-1.91	-1.44/-1.37	-1.27/-1.30	-2.46/-3.27	-2.77/-2.20	-0.42/-0.06	-0.91/-2.02	-0.57/0.85	2.12/2.24	1.30/-2.29	-2.35/-1.96	0.05/0.83	0.82/-2.37	-2.70/-1.77	
Θ(67.5°)	-2.08/-3.70	-2.10/-1.92	-2.46/-1.16	0.08/-1.32	-5.56/-7.15	-5.16/-4.57	-6.26/-8.10	-9.04/-8.34	-4.19/-2.52	-2.09/-1.89	-1.91/-1.90	-1.58/-0.90	-1.46/-1.71	-2.19/-3.77	-4.54/-4.44	-1.22/-1.77	-2.76/-0.45	1.48/2.81	2.86/3.12	2.38/0.58	-1.14/-1.14	0.41/1.83	2.10/-0.16	-0.61/-0.37
Θ(75°)	-2.63/-5.22	-2.15/-0.41	-1.14/-0.72	-0.35/-2.30	-5.11/-6.33	-1.44/-1.37	-3.51/-6.10	-7.22/-6.45	-1.85/-0.17	-1.86/-2.47	-3.63/-4.15	-2.68/-1.77	-0.71/-1.84	-1.57/-1.93	-3.62/-6.15	-4.15/-3.92	-2.53/0.94	2.60/3.84	4.08/3.63	2.87/1.80	-0.47/-1.77	-1.56/-0.17	1.72/1.21	-1.54/-0.68
Θ(82.5°)	-4.14/-6.02	-1.79/-0.42	-1.26/-0.40	-0.95/-5.04	-5.33/-2.35	0.45/-0.32	-3.43/-5.62	-3.83/-2.79	-4.03/-4.77	-3.97/-3.31	-2.96/-3.97	-5.88/-2.82	-0.51/-5.25	-1.27/-0.57	-5.97/-8.06	-7.27/-7.38	-3.98/0.27	1.82/2.95	2.66/2.33	1.55/0.91	-1.06/-2.20	-0.91/-0.69	1.33/1.62	1.07/0.77
Θ(90°)	0.07/-0.09	2.21/2.22	-0.13/-0.78	-2.52/-4.08	-4.45/-1.29	1.08/0.94	-1.73/-4.84	-3.89/-2.90	-5.16/-6.57	-6.59/-3.92	-3.34/-4.98	-8.73/-6.28	-2.78/-5.73	-6.71/-1.13	-4.76/-11.93	-9.32/-10.64	-8.90/-1.91	0.82/3.31	3.45/2.60	2.25/-1.18	-0.74/-2.96	-1.57/-1.92	-1.33/0.57	1.61/2.17
Θ(97.5°)	0.76/0.71	2.46/3.03	0.49/-2.46	-4.63/-6.31	-3.81/0.19	1.92/2.10	-0.58/-1.77	-0.86/-1.47	-4.29/-7.36	-8.54/-6.11	-5.23/-5.59	-9.32/-5.72	-1.86/-6.91	-6.79/-9.44	-4.49/-11.02	-11.25/-10.08	-9.52/-2.05	2.78/1.96	0.75/-0.74	-1.05/-2.64	-4.71/-5.41	-4.37/0.14	2.90/2.40	
Θ(105°)	0.86/1.78	3.43/3.34	1.54/-1.92	-3.02/-6.72	-6.60/-1.81	0.14/-0.73	-1.99/-3.32	-2.08/-2.89	-5.93/-7.43	-15.29/-5.68	-3.79/-4.76	-10.91/-6.61	-2.57/-6.07	-8.56/-2.31	-4.01/-13.66	-7.57/-6.48	-5.41/-1.82	-0.20/-1.86	1.21/1.46	-0.88/-2.06	-1.02/-2.90	-2.79/-1.30	-4.13/-2.96	2.05/2.16
Θ(112.5°)	-0.80/-1.50	1.73/0.52	-0.36/-1.20	-0.79/-1.76	-2.22/-2.32	-2.38/-4.00	-4.41/-6.38	-4.56/-6.73	-4.75/-2.76	-3.52/-6.93	-15.40/-7.59	-1.50/-8.06	-14.21/-4.66	-3.61/-11.69	-9.21/-7.48	-4.30/-3.58	-1.58/-1.72	-1.49/-2.20	-5.65/-4.01	-3.05/-3.34	-2.17/-1.38	-3.86/-3.10	-2.40/-1.17	
Θ(120°)	-0.81/-0.03	1.33/-1.14	0.85/0.73	1.01/0.34	-1.81/-2.35	-3.28/-3.63	-5.48/-8.20	-9.76/-5.32	-3.83/-3.70	-4.22/-5.36	-4.14/-6.24	-12.37/-9.05	-3.40/-5.02	-13.65/-5.98	-3.90/-10.60	-10.64/-9.76	-4.23/-3.86	-3.21/-8.13	-9.37/-7.06	-5.75/-6.08	-5.08/-3.58	-1.99/-1.82	-3.77/-1.82	1.05/0.14
Θ(127.5°)	-2.77/-																							



Antenna Pattern_6GHz U-NII 5~8

Appendix D

Θ(120°)	-0.67/-1.46	-2.14/-2.70	-3.72/-5.75	-6.82/-5.57	-6.16/-5.13	-5.29/-6.34	-4.22/-5.39	-7.11/-7.65	-7.66/-5.27	-4.15/-2.99	-3.96/-3.16	-1.38/-1.13	-3.63/-3.48	-3.10/-2.91	-3.60/-3.62	-5.20/-6.45	-6.51/-7.09	-4.47/-1.83	-2.71/-0.90	-7.41/-6.80	-2.58/-6.35	-7.74/-1.74	-4.18/-2.78	-1.70/-2.24
Θ(127.5°)	-0.92/-1.76	-3.59/-5.34	-7.97/-9.90	-8.76/-7.43	-6.37/-8.10	-9.41/-12.94	-14.86/-13.50	-9.80/-9.87	-8.38/-8.62	-8.66/-10.27	-7.68/-5.55	-4.70/-4.54	-4.52/-3.93	-4.16/-3.80	-7.54/-5.99	-4.36/-6.69	-5.25/-6.18	-3.12/-11.44	-7.11/-12.78	-6.79/-3.01	-6.87/-8.16	-8.00/-10.35	-9.95/-5.88	-3.70/-3.26
Θ(135°)	-5.89/-6.08	-5.59/-7.82	-12.34/-13.62	-15.39/-12.20	-9.25/-5.82	-5.55/-5.55	-6.36/-7.39	-9.87/-10.67	-11.38/-10.12	-9.90/-9.70	-11.13/-10.15	-7.65/-9.07	-8.76/-8.31	-5.09/-6.66	-9.63/-6.12	-5.69/-4.34	-11.42/-11.01	-2.89/-8.52	-13.21/-8.76	-12.45/-5.52	-8.61/-8.52	-10.25/-13.48	-15.75/-9.49	-6.29/-7.57
Θ(142.5°)	-7.78/-7.75	-9.45/-10.64	-9.96/-8.64	-9.09/-10.68	-8.10/-6.19	-5.84/-5.45	-4.91/-4.80	-5.09/-6.61	-7.06/-7.71	-9.55/-10.68	-10.80/-12.25	-13.07/-15.79	-14.37/-10.12	-7.75/-7.72	-10.37/-9.77	-6.23/-12.00	-12.75/-8.57	-6.13/-11.80	-15.67/-14.72	-14.98/-11.01	-11.51/-10.23	-14.36/-15.48	-13.72/-10.37	-12.36/-9.80
Θ(150°)	-10.37/-9.38	-8.54/-7.13	-8.48/-14.65	-13.53/-8.55	-5.93/-6.34	-7.23/-8.11	-6.87/-6.00	-5.77/-5.22	-4.84/-5.57	-7.88/-10.75	-11.70/-13.54	-15.57/-13.81	-9.54/-8.66	-8.41/-10.75	-11.78/-13.90	-14.72/-14.22	-12.42/-7.41	-4.42/-6.16	-11.14/-12.87	-10.39/-11.01	-13.13/-11.22	-9.95/-6.84	-5.75/-6.96	-8.28/-9.12
Θ(157.5°)	-4.25/-6.70	-6.51/-6.78	-5.44/-6.54	-9.91/-11.97	-8.62/-5.98	-5.73/-5.88	-6.20/-6.45	-6.72/-7.92	-10.58/-13.33	-14.62/-14.67	-12.48/-11.33	-11.85/-11.34	-10.03/-10.96	-13.98/-16.12	-14.70/-10.36	-9.05/-13.52	-15.38/-9.31	-8.70/-10.09	-10.20/-7.74	-6.25/-6.88	-7.82/-11.59	-16.08/-10.36	-9.05/-12.08	-10.29/-4.52
Θ(165°)	-2.36/-3.04	-3.65/-4.89	-5.88/-6.54	-8.16/-8.28	-7.62/-7.13	-6.76/-6.05	-5.58/-5.60	-6.20/-6.92	-6.98/-6.90	-7.44/-8.10	-9.49/-9.25	-8.82/-9.96	-12.69/-15.90	-15.35/-13.91	-11.92/-9.82	-9.49/-12.34	-14.43/-13.75	-12.90/-13.96	-13.82/-13.07	-12.29/-10.07	-7.51/-6.43	-6.75/-7.36	-6.63/-4.38	-2.71/-2.16
Θ(172.5°)	-6.44/-7.33	-6.76/-5.93	-6.37/-6.13	-6.54/-7.45	-8.63/-9.31	-8.95/-9.11	-9.29/-8.71	-7.99/-7.66	-6.96/-7.07	-7.51/-7.05	-7.16/-7.80	-8.76/-9.16	-8.25/-7.30	-7.40/-9.23	-10.71/-11.03	-11.31/-11.69	-10.99/-11.22	-10.75/-10.68	-10.56/-11.34	-11.87/-9.15	-7.52/-7.03	-7.62/-7.45	-5.98/-4.68	-4.82/-5.73
Θ(180°)	-10.14/-11.03	-11.50/-12.54	-13.44/-14.37	-14.95/-15.80	-14.84/-14.75	-14.91/-15.88	-15.53/-15.31	-14.52/-15.24	-13.69/-13.08	-10.72/-13.58	-11.65/-12.55	-10.72/-8.23	-7.26/-7.62	-9.21/-10.35	-10.65/-10.00	-8.87/-7.71	-7.29/-7.35	-7.09/-8.09	-9.34/-9.46	-10.81/-8.95	-8.44/-8.57	-9.17/-10.18		
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°)	-10.06/-10.41	-10.17/-10.78	-11.53/-10.69	-9.86/-9.72	-10.05/-10.78	-11.55/-11.99	-11.98/-11.51	-11.56/-11.18	-10.02/-9.41	-9.69/-9.95	-10.23/-10.19	-10.75/-11.46	-11.28/-10.40	-9.49/-9.03	-8.49/-8.66	-8.63/-9.19	-10.20/-10.46	-9.18/-8.86	-9.01/-8.67	-9.81/-10.61	-9.67/-9.27	-8.78/-9.12	-9.50/-9.70	-9.79/-9.95
Θ(7.5°)	-8.61/-9.30	-9.40/-9.42	-8.70/-8.63	-8.45/-8.35	-8.04/-8.82	-9.54/-10.22	-10.05/-9.41	-7.96/-7.67	-8.10/-9.11	-9.22/-8.45	-8.11/-6.55	-9.42/-10.25	-10.59/-10.99	-11.54/-12.16	-12.98/-12.61	-11.82/-11.01	-11.28/-11.04	-11.19/-11.62	-11.96/-9.59	-8.51/-8.54	-8.69/-8.44	-8.42/-8.27	-7.70/-8.00	-8.49/-8.33
Θ(15°)	-6.02/-6.99	-8.46/-8.58	-8.63/-8.97	-9.68/-10.27	-10.60/-10.76	-11.46/-10.68	-10.54/-10.41	-9.70/-8.66	-9.14/-9.07	-8.36/-7.69	-7.46/-7.72	-8.19/-8.55	-9.53/-11.02	-11.23/-10.78	-9.80/-8.64	-7.81/-6.88	-6.11/-5.60	-5.41/-5.32	-5.47/-6.16	-6.67/-5.72	-5.30/-5.04	-6.08/-6.45	-6.40/-6.17	-5.43/-5.33
Θ(22.5°)	-5.65/-6.32	-6.90/-6.65	-8.89/-9.35	-8.73/-6.68	-5.99/-5.81	-5.51/-5.61	-6.34/-6.52	-5.46/-4.58	-5.10/-5.67	-6.12/-6.42	-7.04/-6.65	-5.43/-5.48	-6.93/-8.16	-7.45/-7.01	-7.41/-7.73	-8.73/-9.14	-8.27/-6.40	-5.06/-4.70	-5.00/-4.98	-4.69/-4.47	-4.51/-5.39	-5.56/-5.56	-4.90/-5.01	
Θ(30°)	-4.99/-4.39	-5.12/-5.23	-5.55/-5.42	-4.94/-4.82	-6.04/-8.32	-8.83/-8.26	-6.95/-6.40	-5.98/-5.31	-3.56/-1.96	-1.81/-2.10	-2.60/-3.15	-3.94/-5.02	-4.05/-2.97	-2.55/-2.86	-4.41/-6.76	-8.11/-4.03	-2.77/-2.61	-2.90/-3.45	-3.85/-3.34	-3.72/-4.13	-3.07/-1.63	-0.91/-0.59	-1.93/-3.91	-5.61/-5.24
Θ(37.5°)	-3.18/-4.57	-4.83/-3.97	-2.54/-1.81	-1.86/-2.44	-3.35/-5.10	-8.95/-11.65	-10.21/-9.08	-7.68/-5.25	-3.06/-1.79	-1.63/-1.66	-1.37/-0.90	-0.50/-0.94	-0.86/-1.85	-2.67/-5.21	-7.64/-5.46	-3.00/-1.87	-2.06/-3.55	-4.29/-6.39	-8.05/-6.72	-6.89/-8.24	-7.54/-5.38	-3.11/-1.53	-1.27/-1.23	-1.66/-2.37
Θ(45°)	-2.08/-1.75	-1.07/-0.65	-2.01/-0.50	-0.58/-2.99	-5.20/-8.78	-12.70/-15.07	-14.28/-11.65	-8.68/-7.15	-5.51/-3.47	-1.79/-0.58	0.71/-1.34	1.54/-1.14	0.85/-0.71	-0.79/-3.11	-3.94/-3.40	-2.71/-1.82	-2.71/-2.26	-1.29/-1.02	-0.75/-0.15	0.69/-0.13	0.20/-0.98	-0.22/-2.33	-0.72/-0.43	-0.65/-2.16
Θ(52.5°)	0.250/0.50	1.181/8.7	2.292/3.1	1.34/-1.13	-4.13/-8.23	-10.47/-11.86	-13.58/-12.89	-11.11/-7.95	-5.48/-3.29	-1.82/-0.73	0.73/2.03	2.46/-1.28	0.130/0.3	-0.33/-2.14	-2.71/-1.72	-1.72/-2.27	-1.25/-0.55	0.09/-0.54	-0.95/-0.63	-0.89/-0.69	0.07/0.68	0.871/2.6	0.300/5.1	1.25/0.97
Θ(60°)	0.81/0.90	2.23/3.14	3.903/6.6	1.84/-0.51	-3.88/-3.80	-6.32/-4.41	-5.29/-5.78	-1.51/-4.01	-1.13/-0.70	1.271/7.8	1.821/2.3	2.232/4.1	1.41/-0.22	-1.13/-1.41	-0.45/-0.68	-0.66/-1.75	-4.34/-6.53	-9.97/-10.98	-6.93/-3.35	-1.51/-6.02	0.261/8.7	2.401/6.7	1.371/4.4	
Θ(67.5°)	2.11/2.64	3.804/0.3	4.013/0.6	1.00/-1.95	-3.19/-1.84	-0.63/0.35	0.63/0.20	-0.26/-1.21	-1.80/-1.21	0.271/4.9	1.721/3.4	0.921/0.8	1.682/1.5	3.002/7.9	2.141/7.7	1.740/6.8	-0.03/-2.09	-6.09/-8.35	-7.41/-7.73	-9.14/-5.07	0.231/4.0	0.460/5.4	1.561/4.6	1.221/6.9
Θ(75°)	3.423/3.2	3.364/3.0	4.753/6.6	1.13/-1.57	-0.98/-0.20	0.671/0.9	1.841/7.2	1.121/3.2	0.950/2.8	0.711/8.9	1.850/4.3	-1.390/2.9	1.812/6.4	3.793/0.6	3.303/2.7	1.871/2.9	-0.38/-2.75	-3.73/-2.54	-2.58/-3.37	-4.88/-4.14	-1.001/4.8	0.860/2.9	1.692/2.1	1.832/2.5
Θ(82.5°)	3.022/9.8	3.023/6.7	3.653/3.6	1.71/-0.16	0.651/1.94	1.901/55	2.392/4.4	2.041/7.5	1.150/8.1	1.130/7.2	-0.23/-1.91	-0.860/8.7	1.592/2.0	3.733/9.1	3.543/0.8	0.15/-1.37	-1.68/-2.65	-3.65/-2.51	-1.97/-2.66	-3.95/-5.72	-3.91/-0.49	0.720/7.7	2.082/7.5	1.981/5.1
Θ(90°)	0.340/-3.2	-0.572/0.4	3.243/3.5	2.652/0.0	1.612/2.33	2.261/9.6	3.303/6.7	1.000/5.2	-0.100/2.2	0.771/-1.08	-0.550/9.0	1.892/5.6	3.482/8.5	1.400/4.9	-1.18/-1.79	-1.13/-2.87	-4.78/-3.39	-2.08/-2.92	-5.55/-6.63	-3.47/-1.89	-1.070/5.6	2.532/7.6	1.83/-0.22	
Θ(97.5°)	-4.18/-1.67	-1.36/-1.41	1.752/1.3	0.861/0.4	1.380/0.1	1.04/-0.30	-0.29/-0.03	0.560/2.9	-0.86/-1.39	-1.11/-0.79	0.16/1.54	1.410/4.3	-0.12/-0.02	2.471/8.0	-0.15/-0.92	-3.16/-6.03	-3.18/-5.61	-7.82/-3.26	-0.880/0.7	0.50/-1.30	-3.73/-2.07	-1.221/0.2	0.812/4.9	1.74/-1.23
Θ(105°)	-2.99/-2.99	-1.75/-2.95	-1.55/-7.03	-1.74/-1.52	-0.87/-0.48	0.430/6.5	-0.97/-0.44	-0.83/-1.63	-2.21/-3.61	-4.11/-1.34	0.551/0.2	-0.50/-2.43	-0.62/-0.48	0.35/-1.12	-2.34/-4.74	-8.88/-6.66	-4.32/-6.88	-6.74/-2.59	-1.60/-0.63	-0.46/-0.88	-2.13/-1.75	-2.48/-0.61	-1.33/-0.69	0.940/4.7
Θ(112.5°)	-1.80/-1.09	-1.78/-3.54	-4.48/-6.13	-5.47/-6.45	-7.34/-3.49	-3.07/-2.02	-0.89/-2.98	-4.17/-2.89	-3.28/-3.26	-3.83/-3.23	-1.84/-1.20	-0.90/-1.50	-2.09/-2.46	-2.67/-2.61	-5.89/-6.65	-3.82/-9.10	-8.95/-0.71	-0.900/4.7	-0.32/-3.41	-1.18/-1.82	-5.57/-4.59	-4.04/-1.97	-0.81/-1.37	
Θ(120°)	-3.03/-3.10	-3.20/-4.27	-5.61/-8.38	-12.07/-9.62	-7.72/-5.05	-4.42/-5.16	-9.94/-8.45	-6.90/-6.87	-5.57/-8.15	-6.56/-4.85	-3.11/-2.64	-3.75/-5.34	-5.65/-5.57	-4.01/-2.33	-2.63/-4.11	-7.94/-8.15	-4.26/-7.36	-11.37/-2.93	-3.98/-0.70	-8.40/-8.04	-2.85/-8.39	-8.48/-3.81	-11.53/-6.25	-5.83/-4.27
Θ(127.5°)	-7.74/-8.51	-6.64/-6.38	-6.09/-7.47	-14.30/-14.70	-14.67/-8.43	-8.40/-10.34	-13.04/-15.23	-11.44/-8.50	-9.64/-8.29	-7.06/-6.45	-7.94/-7.40	-7.00/-8.59	-13.51/-9.82	-6.31/-5.00	-7.85/-5.07	-4.67/-5.74	-10.29/-8.69	-8.69/-10.63	-5.66/-13.63	-7.47/-5.18	-7.15/-10.34	-13.28/-10.45	-16.03/-11.45	-13.50/-9.21
Θ(135°)	-7.60/-9.24	-7.46/-3.66	-4.95/-8.00	-10.04/-13.73	-10.75/-8.25	-7.54/-7.65	-8.14/-8.41	-8.56/-8.09	9.11/-12.38	-9.77/-10.70	-11.20/-11.57	-10.85/-13.75	-12.38/-13.46	-11.22/-8.14	-11.59/-7.73	-8.27/-4.39	-9.97/-9.67	-3.10/-8.00	-15.13/-11.04	-12.32/-5.21	-9.68/-11.01	-10.88/-8.27	-9.47/-11.21	-15.04/-12.38
Θ(142.5°)	-12.03/-8.44	-5.60/-5.51	-4.30/-4.38	-5.97/-7.92	-6.96/-6.28	-4.81/-4.02	-4.45/-5.26	-7.34/-11.92	-11.35/-9.91	-11.66/-14.02	-11.93/-9.95	-7.90/-8.67	-8.38/-13.07	-15.57/-10.20	-14.89/-10.50	-8.48/-11.87	-15.74/-12.81	-7.39/-9.46	-13.49/-13.90	-10.95/-8.38	-9.68/-11.20	-12.73/-9.84	-8.64/-7.82	-14.88/-14.23
Θ(150°)	-6.17/-7.43	-6.32/-6.64	-8.72/-11.96	-13.78/-12.95	-10.86/-11.16	-12.10/-13.58	-14.25/-13.68	-10.56/-9.08	-9.14/-9.92	-9.28/-8.39	-8.85/-8.64	-9.73/-8.83	-8.34/-6.85	-6.72/-9.81	-14.64/-13.35	-14.74/-14.67	-12.97/-6.91	-3.98/-4.92	-8.16/-11.53	-14.72/-15.19	-12.95/-9.20	-9.28/-8.66	-9.21/-11.86	-10.63/-7.63
Θ(157.5°)	-9.96/-7.43	-5.61/-5.17	-6.00/-6.60	-5.59/-4.77	-5.28/-6.51	-6.88/-5.38	-4.86/-5.16	-6.59/-8.44	-11.06/-13.18	-15.36/-14.56	-12.73/-12.71	-12.17/-13.60	-13.87/-11.57	-11.91/-11.77	-12.19/-9.89	-8.92/-12.02	-12.40/-8.86	-7.96/-10.18	-11.91/-9.70	-8.40/-9.26	-10.33/-10.34	-7.17/-5.55	-5.55/-8.57	-15.01/-8.96
Θ(165°)	-3.79/-3.73	-3.01/-2.79	-3.44/-5.14	-6.07/-6.20	-6.96/-7.85	-4.98/-5.83	-4.36/-3.82	-4.15/-3.83	-3.21/-3.30	-4.53/-6.37	-8.45/-9.00	-12.22/-9.16	-12.71/-11.24	-15.35/-14.97	-12.60/-11.32	-10.22/-10.50	-13.49/-14.40	-13.29/-13.39	-14.04/-12.99	-11.54/-10.49	-9.73/-9.92	-9.74/-10.39	-9.09/-7.50	-5.10/-3.71
Θ(172.5°)	-5.29/-5.07	-4.09/-3.91	-4.58/-5.47	-6.92/-8.77	-13.15/-15.82	-15.23/-14.87																		

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



