

Frequency	660MHz	665MHz	670MHz	675MHz	680MHz	685MHz	690MHz	695MHz	700MHz	705MHz	710MHz	715MHz	720MHz	725MHz	730MHz	735MHz	740MHz	745MHz	750MHz	755MHz
Ant. Port Inp. Pow. (dBi)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rad. Pow. (dBi)	-4.09	-4.31	-4.69	-4.76	-4.7	-4.23	-3.99	-3.75	-3.68	-4.89	-4.1	-4.66	-5.31	-4.66	-4.64	-4.17	-4.11	-3.94	-3.92	-4.02
Rad. Pow. 0-90 (dBi)	-6.58	-6.8	-7.18	-7.21	-7.08	-6.53	-6.25	-5.98	-5.88	-7.05	-6.25	-6.77	-7.39	-6.75	-6.77	-6.33	-6.3	-6.17	-6.18	-6.3
Rad. Pow. 90-180 (dBi)	-7.68	-7.91	-8.3	-8.4	-8.43	-8.1	-7.9	-7.7	-7.7	-8.97	-8.2	-8.81	-9.49	-8.83	-8.76	-8.22	-8.11	-7.9	-7.83	-7.91
Peak EIRP (dBi)	0.45	0.09	-0.61	-0.83	-0.86	-0.52	-0.29	-0.02	0.09	-1.1	-0.31	-0.7	-1.06	-0.11	-0.36	0.32	0.45	0.65	0.56	0.3
Directivity (dBi)	4.54	4.4	4.08	3.93	3.84	3.71	3.7	3.73	3.77	3.79	3.79	3.96	4.25	4.55	4.28	4.49	4.56	4.59	4.48	4.32
Efficiency (dB)	-4.09	-4.31	-4.69	-4.76	-4.7	-4.23	-3.99	-3.75	-3.68	-4.89	-4.1	-4.66	-5.31	-4.66	-4.64	-4.17	-4.11	-3.94	-3.92	-4.02
Efficiency (%)	38.99	37.07	33.96	33.42	33.88	37.76	39.9	42.17	42.85	32.43	38.9	34.2	29.44	34.2	34.36	38.28	38.82	40.36	40.55	39.63
Gain (dBi)	0.45	0.09	-0.61	-0.83	-0.86	-0.52	-0.29	-0.02	0.09	-1.1	-0.31	-0.7	-1.06	-0.11	-0.36	0.32	0.45	0.65	0.56	0.3
NHPRP +/-30 (dBi)	-5.8	-6.02	-6.42	-6.48	-6.4	-5.92	-5.66	-5.41	-5.34	-6.55	-5.76	-6.31	-7.04	-6.42	-6.49	-6.06	-6.03	-5.9	-5.91	-6.03
NHPRP +/-45 (dBi)	-4.72	-4.95	-5.35	-5.41	-5.34	-4.85	-4.6	-4.35	-4.28	-5.49	-4.7	-5.25	-5.95	-5.31	-5.35	-4.9	-4.87	-4.73	-4.74	-4.86
Maximum H+V Value (dBi)	0.45	0.09	-0.61	-0.83	-0.86	-0.52	-0.29	-0.02	0.09	-1.1	-0.31	-0.7	-1.06	-0.11	-0.36	0.32	0.45	0.65	0.56	0.3
Maximum H+V @ Theta (deg.)	60	60	60	60	60	75	75	75	75	60	60	60	60	60	45	45	45	45	45	45
Maximum H+V @ Phi (deg.)	0	0	0	0	0	315	315	315	315	0	0	0	0	0	0	0	0	0	0	0
Minimum H+V Value (dBi)	-17.69	-17.57	-17.37	-17.37	-16.55	-16.03	-16.15	-15.85	-16.03	-17.31	-16.59	-16.9	-17.08	-15.88	-15.51	-14.84	-14.39	-13.83	-13.27	-13.11
Minimum H+V @ Theta (deg.)	15	15	15	15	15	15	15	15	165	165	165	165	165	150	150	150	150	150	150	135
Minimum H+V @ Phi (deg.)	165	195	195	195	195	195	195	195	150	150	150	165	150	105	105	105	105	105	105	90
Horizontal ()																				
Ant. Port Inp. Pow. (dBi)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H Rad. Pow. (dBi)	-4.39	-4.6	-4.97	-5.02	-4.96	-4.49	-4.23	-3.97	-3.92	-5.21	-4.44	-5.05	-5.8	-5.3	-5.35	-5.04	-5.13	-5.13	-5.23	-5.42
H Rad. Pow. 0-90 (dBi)	-6.9	-7.11	-7.47	-7.49	-7.35	-6.78	-6.49	-6.2	-6.11	-7.35	-6.56	-7.14	-7.85	-7.34	-7.37	-7.08	-7.17	-7.19	-7.3	-7.49
H Rad. Pow. 90-180 (dBi)	-7.96	-8.17	-8.56	-8.65	-8.69	-8.35	-8.14	-7.93	-7.94	-9.3	-8.56	-9.24	-10.04	-9.55	-9.63	-9.3	-9.37	-9.36	-9.45	-9.65
H Peak EIRP (dBi)	-0.45	-0.65	-0.99	-1.02	-0.98	-0.61	-0.38	-0.12	-0.01	-1.39	-0.6	-1.19	-1.86	-1.4	-1.48	-1.2	-1.34	-1.41	-1.49	-1.7
H Directivity (dBi)	3.94	3.95	3.98	4	3.98	3.88	3.85	3.85	3.91	3.82	3.84	3.86	3.94	3.9	3.87	3.84	3.79	3.72	3.74	3.72
H Efficiency (dB)	-4.39	-4.6	-4.97	-5.02	-4.96	-4.49	-4.23	-3.97	-3.92	-5.21	-4.44	-5.05	-5.8	-5.3	-5.35	-5.04	-5.13	-5.13	-5.23	-5.42
H Efficiency (%)	36.39	34.67	31.84	31.48	31.92	35.56	37.76	40.09	40.55	30.13	35.97	31.26	26.3	29.51	29.17	31.33	30.69	30.69	29.99	28.71
H Gain (dBi)	-0.45	-0.65	-0.99	-1.02	-0.98	-0.61	-0.38	-0.12	-0.01	-1.39	-0.6	-1.19	-1.86	-1.4	-1.48	-1.2	-1.34	-1.41	-1.49	-1.7
H NHPRP +/-30 (dBi)	-6.12	-6.32	-6.7	-6.73	-6.65	-6.15	-5.88	-5.61	-5.55	-6.83	-6.05	-6.66	-7.48	-6.99	-7.04	-6.75	-6.85	-6.86	-6.97	-7.17
H NHPRP +/-45 (dBi)	-5.06	-5.27	-5.65	-5.69	-5.62	-5.1	-4.84	-4.57	-4.52	-5.8	-5.02	-5.63	-6.43	-5.93	-5.99	-5.69	-5.79	-5.81	-5.92	-6.13
Maximum H Value (dBi)	-0.45	-0.65	-0.99	-1.02	-0.98	-0.61	-0.38	-0.12	-0.01	-1.39	-0.6	-1.19	-1.86	-1.4	-1.48	-1.2	-1.34	-1.41	-1.49	-1.7
Maximum H @ Theta (deg.)	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	90	90	90	90	75
Maximum H @ Phi (deg.)	315	300	315	315	300	315	315	315	315	300	315	315	300	315	300	300	300	285	285	300
Minimum H Value (dBi)	-35.13	-33.08	-32.43	-61.99	-36.6	-30.34	-29.94	-31.14	-30.93	-32.71	-33.86	-34.69	-36.12	-36.79	-34.33	-32.5	-33.31	-35.11	-34.28	-31.83
Minimum H @ Theta (deg.)	15	15	15	45	45	15	15	15	15	15	15	15	15	15	15	165	165	165	165	165
Minimum H @ Phi (deg.)	195	195	195	0	0	195	210	195	195	195	195	195	195	195	195	165	165	165	165	165
Vertical ()																				
Ant. Port Inp. Pow. (dBi)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V Rad. Pow. (dBi)	-15.81	-16.2	-16.78	-17.05	-16.99	-16.74	-16.71	-16.73	-16.42	-16.45	-15.42	-15.27	-15.01	-13.29	-12.9	-11.55	-10.9	-10.13	-9.75	-9.61
V Rad. Pow. 0-90 (dBi)	-18.08	-18.45	-19.08	-19.33	-19.23	-19.01	-19	-19.04	-18.73	-18.77	-17.75	-17.62	-17.4	-15.7	-15.66	-14.34	-13.71	-12.96	-12.64	-12.51
V Rad. Pow. 90-180 (dBi)	-19.71	-20.13	-20.63	-20.93	-20.95	-20.64	-20.59	-20.57	-20.27	-20.29	-19.25	-19.05	-18.75	-16.99	-16.17	-14.78	-14.11	-13.33	-12.89	-12.72
V Peak EIRP (dBi)	-3.41	-3.96	-5.13	-5.67	-5.93	-6.16	-6.22	-6.44	-6.23	-6.3	-5.4	-5.38	-5.2	-3.69	-3.85	-2.78	-2.41	-2.03	-2.07	-2.4
V Directivity (dBi)	12.4	12.24	11.65	11.38	11.06	10.58	10.49	10.29	10.19	10.15	10.02	9.89	9.81	9.6	9.05	8.77	8.49	8.1	7.68	7.21
V Efficiency (dB)	-15.81	-16.2	-16.78	-17.05	-16.99	-16.74	-16.71	-16.73	-16.42	-16.45	-15.42	-15.27	-15.01	-13.29	-12.9	-11.55	-10.9	-10.13	-9.75	-9.61
V Efficiency (%)	2.62	2.4	2.1	1.97	2	2.12	2.13	2.12	2.28	2.26	2.87	2.97	3.16	4.69	5.13	7	8.13	9.71	10.59	10.94
V Gain (dBi)	-3.41	-3.96	-5.13	-5.67	-5.93	-6.16	-6.22	-6.44	-6.23	-6.3	-5.4	-5.38	-5.2	-3.69	-3.85	-2.78	-2.41	-2.03	-2.07	-2.4
V NHPRP +/-30 (dBi)	-17.39	-17.82	-18.56	-18.89	-18.88	-18.75	-18.75	-18.81	-18.53	-18.58	-17.57	-17.44	-17.19	-15.5	-15.73	-14.39	-13.72	-12.91	-12.54	-12.39
V NHPRP +/-45 (dBi)	-15.94	-16.37	-17.1	-17.42	-17.42	-17.28	-17.27	-17.33	-17.04	-17.09	-16.1	-15.98	-15.75	-14.06	-14.01	-12.68	-12.05	-11.3	-10.95	-10.83
Maximum V Value (dBi)	-3.41	-3.96	-5.13	-5.67	-5.93	-6.16	-6.22	-6.44	-6.23	-6.3	-5.4	-5.38	-5.2	-3.69	-3.85	-2.78	-2.41	-2.03	-2.07	-2.4
Maximum V @ Theta (deg.)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	45	45	45	45	45	45
Maximum V @ Phi (deg.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum V Value (dBi)	-40.68	-42.54	-36.52	-38.45	-39.84	-40.26	-40.86	-42.81	-41.87	-38.78	-40.45	-43.25	-43.78	-41.5	-50.18	-59.22	-30.37	-31.48	-30.7	-30.81
Minimum V @ Theta (deg.)	150	150	150	165	165	165	165	165	165	165	90	90	60	45	60	60	150	150	150	30
Minimum V @ Phi (deg.)	45	45	45	45	45	45	60	60	60	60	30	30	30	30	0	0	225	225	225	45

760MHz	765MHz	770MHz	775MHz	780MHz	785MHz	790MHz	795MHz	800MHz	805MHz	810MHz	815MHz	820MHz	825MHz	830MHz	835MHz	840MHz	845MHz	850MHz	855MHz	860MHz	865MHz	870MHz
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.13	-3.29	-3.07	-2.69	-2.9	-3.23	-3.52	-3.65	-3.2	-2.73	-2.85	-2.7	-2.87	-2.79	-2.62	-2.47	-2.38	-2.73	-3.13	-3.39	-3.56	-3.75	-3.85
-6.43	-5.61	-5.41	-5.03	-5.25	-5.62	-5.97	-6.17	-5.75	-5.33	-5.49	-5.39	-5.59	-5.54	-5.37	-5.21	-5.14	-5.51	-5.98	-6.24	-6.44	-6.68	-6.85
-7.99	-7.12	-6.88	-6.48	-6.68	-6.97	-7.18	-7.22	-6.72	-6.19	-6.25	-6.06	-6.19	-6.09	-5.9	-5.77	-5.65	-5.99	-6.31	-6.56	-6.71	-6.84	-6.86
0.07	0.76	0.76	0.8	0.23	-0.21	-0.54	-0.55	0.19	0.87	0.94	1.2	0.88	0.9	1.13	1.32	1.45	0.97	0.57	0.46	0.41	0.55	0.61
4.2	4.05	3.83	3.49	3.13	3.02	2.98	3.1	3.39	3.6	3.79	3.9	3.75	3.69	3.75	3.79	3.83	3.7	3.7	3.85	3.97	4.3	4.46
-4.13	-3.29	-3.07	-2.69	-2.9	-3.23	-3.52	-3.65	-3.2	-2.73	-2.85	-2.7	-2.87	-2.79	-2.62	-2.47	-2.38	-2.73	-3.13	-3.39	-3.56	-3.75	-3.85
38.64	46.88	49.32	53.83	51.29	47.53	44.46	43.15	47.86	53.33	51.88	53.7	51.64	52.6	54.7	56.62	57.81	53.33	48.64	45.81	44.06	42.17	41.21
0.07	0.76	0.76	0.8	0.23	-0.21	-0.54	-0.55	0.19	0.87	0.94	1.2	0.88	0.9	1.13	1.32	1.45	0.97	0.57	0.46	0.41	0.55	0.61
-6.17	-5.35	-5.16	-4.79	-5.02	-5.39	-5.73	-5.92	-5.48	-5.04	-5.17	-5.03	-5.19	-5.09	-4.91	-4.78	-4.71	-5.08	-5.5	-5.76	-5.94	-6.12	-6.2
-5	-4.19	-4	-3.64	-3.89	-4.26	-4.61	-4.8	-4.37	-3.91	-4.05	-3.9	-4.07	-3.98	-3.79	-3.69	-3.62	-3.99	-4.39	-4.66	-4.84	-5.04	-5.12
0.07	0.76	0.76	0.8	0.23	-0.21	-0.54	-0.55	0.19	0.87	0.94	1.2	0.88	0.9	1.13	1.32	1.45	0.97	0.57	0.46	0.41	0.55	0.61
45	45	45	45	45	90	90	90	90	90	90	90	90	90	60	60	60	60	150	150	150	150	150
0	0	0	0	0	330	330	0	0	0	0	0	0	0	15	15	15	15	330	330	330	330	330
-12.98	-12.05	-12.32	-12.63	-13.53	-14.28	-14.47	-13.95	-13.46	-14.73	-16.54	-18.4	-19.29	-17.91	-15.39	-12.87	-11.33	-12.16	-12.85	-13.19	-13.18	-14.4	-13.82
135	135	120	120	120	120	120	120	30	30	30	30	30	30	30	30	135	135	135	135	135	30	120
90	105	90	90	90	90	90	90	240	240	240	240	240	240	240	240	120	120	135	135	135	135	135
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.66	-4.95	-4.82	-4.42	-4.64	-5.04	-5.4	-5.83	-5.35	-5	-5.15	-4.95	-5.02	-4.91	-4.71	-4.51	-4.43	-4.74	-5.2	-5.43	-5.63	-5.9	-6.11
-7.71	-7	-6.85	-6.46	-6.67	-7.08	-7.46	-7.92	-7.49	-7.2	-7.41	-7.26	-7.37	-7.29	-7.1	-6.9	-6.8	-7.08	-7.51	-7.7	-7.88	-8.19	-8.52
-9.9	-9.21	-9.09	-8.68	-8.91	-9.29	-9.62	-10	-9.44	-9	-9.08	-8.8	-8.81	-8.67	-8.46	-8.24	-8.19	-8.53	-9.05	-9.35	-9.56	-9.79	-9.82
-1.96	-1.26	-1.19	-0.83	-1.11	-1.56	-2.04	-2.3	-1.77	-1.41	-1.28	-0.91	-1.17	-1.14	-1.15	-1.07	-0.94	-1.23	-1.4	-1.43	-1.36	-1.26	-0.9
3.7	3.69	3.63	3.59	3.53	3.48	3.36	3.53	3.58	3.59	3.87	4.04	3.85	3.77	3.56	3.44	3.49	3.51	3.8	4	4.27	4.64	5.21
-5.66	-4.95	-4.82	-4.42	-4.64	-5.04	-5.4	-5.83	-5.35	-5	-5.15	-4.95	-5.02	-4.91	-4.71	-4.51	-4.43	-4.74	-5.2	-5.43	-5.63	-5.9	-6.11
27.16	31.99	32.96	36.14	34.36	31.33	28.84	26.12	29.17	31.62	30.55	31.99	31.48	32.28	33.81	35.4	36.06	33.57	30.2	28.64	27.35	25.7	24.49
-1.96	-1.26	-1.19	-0.83	-1.11	-1.56	-2.04	-2.3	-1.77	-1.41	-1.28	-0.91	-1.17	-1.14	-1.15	-1.07	-0.94	-1.23	-1.4	-1.43	-1.36	-1.26	-0.9
-7.41	-6.72	-6.6	-6.23	-6.48	-6.91	-7.32	-7.78	-7.35	-7.04	-7.21	-7	-7.05	-6.91	-6.68	-6.44	-6.33	-6.61	-7.05	-7.29	-7.49	-7.81	-8.11
-6.38	-5.69	-5.58	-5.2	-5.46	-5.9	-6.3	-6.76	-6.33	-6.03	-6.19	-5.99	-6.04	-5.91	-5.69	-5.47	-5.37	-5.67	-6.14	-6.39	-6.6	-6.93	-7.21
-1.96	-1.26	-1.19	-0.83	-1.11	-1.56	-2.04	-2.3	-1.77	-1.41	-1.28	-0.91	-1.17	-1.14	-1.15	-1.07	-0.94	-1.23	-1.4	-1.43	-1.36	-1.26	-0.9
75	75	75	75	75	75	60	60	60	90	90	90	90	90	60	60	60	60	165	165	165	165	150
300	300	300	300	285	300	45	45	45	0	0	0	0	0	15	15	15	0	315	300	300	300	315
-29.7	-28.1	-27.6	-34.37	-31.43	-35.2	-31.5	-29.48	-29.47	-29.07	-36.5	-42.67	-25.27	-24.75	-27.67	-29.14	-30.91	-33.1	-31.28	-29.19	-28.71	-35.06	-37.4
165	15	15	165	165	135	135	0	0	15	30	30	165	165	135	135	135	135	15	15	0	0	0
165	195	195	180	180	150	150	165	165	330	225	300	195	195	75	75	75	90	210	225	45	255	270
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.4	-8.26	-7.87	-7.52	-7.71	-7.9	-8.06	-7.71	-7.28	-6.62	-6.69	-6.64	-6.96	-6.92	-6.79	-6.74	-6.62	-7.05	-7.35	-7.64	-7.78	-7.83	-7.76
-12.34	-11.24	-10.88	-10.58	-10.82	-11.05	-11.32	-10.98	-10.56	-9.87	-9.98	-9.95	-10.33	-10.32	-10.22	-10.13	-10.11	-10.67	-11.26	-11.71	-11.94	-12	-11.81
-12.48	-11.31	-10.88	-10.48	-10.63	-10.79	-10.84	-10.47	-10.04	-9.41	-9.45	-9.37	-9.64	-9.57	-9.41	-9.4	-9.19	-9.53	-9.62	-9.8	-9.88	-9.92	-9.93
-2.62	-1.95	-2	-2.36	-3.3	-3.33	-3.25	-2.71	-2.16	-1.41	-1.44	-1.27	-1.55	-1.47	-1.34	-1.2	-0.93	-1.22	-1.62	-1.91	-2.21	-2.42	-2.58
6.78	6.31	5.87	5.16	4.41	4.57	4.81	5	5.12	5.21	5.25	5.37	5.41	5.45	5.45	5.54	5.69	5.83	5.73	5.73	5.57	5.41	5.18
-9.4	-8.26	-7.87	-7.52	-7.71	-7.9	-8.06	-7.71	-7.28	-6.62	-6.69	-6.64	-6.96	-6.92	-6.79	-6.74	-6.62	-7.05	-7.35	-7.64	-7.78	-7.83	-7.76
11.48	14.93	16.33	17.7	16.94	16.22	15.63	16.94	18.71	21.78	21.43	21.68	20.14	20.32	20.94	21.18	21.78	19.72	18.41	17.22	16.67	16.48	16.75
-2.62	-1.95	-2	-2.36	-3.3	-3.33	-3.25	-2.71	-2.16	-1.41	-1.44	-1.27	-1.55	-1.47	-1.34	-1.2	-0.93	-1.22	-1.62	-1.91	-2.21	-2.42	-2.58
-12.19	-11.04	-10.64	-10.3	-10.48	-10.67	-10.86	-10.49	-10.05	-9.37	-9.45	-9.41	-9.76	-9.76	-9.67	-9.76	-9.77	-10.33	-10.71	-11.05	-11.16	-11.03	-10.69
-10.66	-9.54	-9.17	-8.85	-9.07	-9.28	-9.53	-9.18	-8.76	-8.05	-8.13	-8.09	-8.44	-8.41	-8.3	-8.43	-8.4	-8.93	-9.18	-9.51	-9.63	-9.56	-9.3
-2.62	-1.95	-2	-2.36	-3.3	-3.33	-3.25	-2.71	-2.16	-1.41	-1.44	-1.27	-1.55	-1.47	-1.34	-1.2	-0.93	-1.22	-1.62	-1.91	-2.21	-2.42	-2.58
45	45	45	45	45	135	135	135	135	135	135	135	135	135	135	150	150	150	150	150	150	150	150
0	0	0	0	0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
-38.36	-32.51	-27.07	-30.77	-39.04	-39.47	-30.03	-59.57	-28.05	-28.98	-31.51	-35.45	-44.1	-28.61	-38.62	-27.65	-61.41	-44.26	-28.9	-28.47	-33.2	-36.91	-33.59
30	30	30	150	150	150	150	45	150	0	0	90	120	75	75	105	105	105	105	75	45	0	0
45	45	45	240	240	240	240	0	255	255	255	240	255	240	240	0	0	120	120	135	135	315	330





1.79GHz	1.795GHz	1.8GHz	1.805GHz	1.81GHz	1.815GHz	1.82GHz	1.825GHz	1.83GHz	1.835GHz	1.84GHz	1.845GHz	1.85GHz	1.855GHz	1.86GHz	1.865GHz	1.87GHz	1.875GHz	1.88GHz	1.885GHz	1.89GHz
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.59	-6.42	-6.5	-6.48	-6.52	-6.42	-6.53	-6.57	-6.62	-6.7	-6.77	-7.02	-7.25	-7.26	-7.04	-6.86	-6.65	-6.53	-6.09	-6.17	-6.19
-12.2	-12.07	-12.17	-12.07	-12.06	-11.98	-12.08	-12.13	-12.17	-12.27	-12.4	-12.63	-12.84	-12.82	-12.57	-12.37	-12.15	-12.03	-11.61	-11.69	-11.74
-7.98	-7.8	-7.87	-7.88	-7.95	-7.84	-7.95	-7.98	-8.03	-8.12	-8.16	-8.41	-8.65	-8.68	-8.47	-8.29	-8.09	-7.97	-7.51	-7.6	-7.6
-0.33	-0.18	-0.22	-0.16	-0.34	-0.09	-0.3	-0.39	-0.46	-0.7	-0.83	-1.09	-1.33	-1.28	-1.09	-0.99	-0.74	-0.65	-0.27	-0.46	-0.45
6.26	6.24	6.28	6.32	6.18	6.33	6.23	6.18	6.16	6	5.94	5.93	5.92	5.98	5.95	5.87	5.91	5.88	5.82	5.71	5.74
-6.59	-6.42	-6.5	-6.48	-6.52	-6.42	-6.53	-6.57	-6.62	-6.7	-6.77	-7.02	-7.25	-7.26	-7.04	-6.86	-6.65	-6.53	-6.09	-6.17	-6.19
21.93	22.8	22.39	22.49	22.28	22.8	22.23	22.03	21.78	21.38	21.04	19.86	18.84	18.79	19.77	20.61	21.63	22.23	24.6	24.15	24.04
-0.33	-0.18	-0.22	-0.16	-0.34	-0.09	-0.3	-0.39	-0.46	-0.7	-0.83	-1.09	-1.33	-1.28	-1.09	-0.99	-0.74	-0.65	-0.27	-0.46	-0.45
-10.7	-10.56	-10.65	-10.54	-10.51	-10.42	-10.51	-10.54	-10.59	-10.65	-10.99	-11.23	-11.46	-11.43	-11.19	-11.03	-10.82	-10.71	-10.31	-10.39	-10.45
-8.82	-8.68	-8.77	-8.7	-8.71	-8.61	-8.72	-8.75	-8.79	-8.87	-9.09	-9.34	-9.57	-9.56	-9.33	-9.16	-8.96	-8.84	-8.42	-8.5	-8.54
-0.33	-0.18	-0.22	-0.16	-0.34	-0.09	-0.3	-0.39	-0.46	-0.7	-0.83	-1.09	-1.33	-1.28	-1.09	-0.99	-0.74	-0.65	-0.27	-0.46	-0.45
120	120	120	120	120	120	120	120	120	120	120	165	165	165	165	165	165	165	165	165	165
15	15	15	15	15	15	15	15	15	15	15	315	315	300	315	315	315	315	300	300	315
-24.94	-25.39	-25.7	-25.81	-25.87	-25.04	-25.24	-24.94	-24.82	-24.75	-25.66	-26.51	-27.7	-27.78	-28.69	-28.91	-28.79	-27.74	-26.65	-26.16	-25.36
15	15	15	15	15	15	15	15	15	15	15	15	15	75	75	75	75	75	75	75	75
180	180	180	180	180	180	195	195	195	210	210	210	225	270	270	270	270	270	270	270	270
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.23	-10.03	-10.09	-10.12	-10.17	-10.14	-10.26	-10.35	-10.33	-10.33	-10.49	-10.72	-10.92	-10.94	-10.74	-10.53	-10.41	-10.37	-9.86	-9.95	-9.92
-15.86	-15.66	-15.7	-15.72	-15.73	-15.7	-15.77	-15.85	-15.82	-15.84	-16.22	-16.46	-16.66	-16.66	-16.43	-16.22	-16.09	-16.04	-15.52	-15.6	-15.57
-11.62	-11.42	-11.49	-11.52	-11.58	-11.56	-11.69	-11.79	-11.77	-11.77	-11.83	-12.06	-12.27	-12.3	-12.11	-11.89	-11.77	-11.75	-11.24	-11.34	-11.3
-1.81	-1.64	-1.71	-1.7	-1.74	-1.72	-1.71	-1.8	-1.61	-1.79	-1.5	-1.84	-1.88	-1.85	-1.78	-1.44	-1.39	-1.32	-0.96	-0.86	-0.95
8.42	8.39	8.38	8.42	8.43	8.42	8.55	8.55	8.72	8.54	8.99	8.88	9.04	9.09	8.96	9.09	9.02	9.05	8.9	9.09	8.97
-10.23	-10.03	-10.09	-10.12	-10.17	-10.14	-10.26	-10.35	-10.33	-10.33	-10.49	-10.72	-10.92	-10.94	-10.74	-10.53	-10.41	-10.37	-9.86	-9.95	-9.92
9.48	9.93	9.79	9.73	9.62	9.68	9.42	9.23	9.27	9.27	8.93	8.47	8.09	8.05	8.43	8.85	9.1	9.18	10.33	10.12	10.19
-1.81	-1.64	-1.71	-1.7	-1.74	-1.72	-1.71	-1.8	-1.61	-1.79	-1.5	-1.84	-1.88	-1.85	-1.78	-1.44	-1.39	-1.32	-0.96	-0.86	-0.95
-14.3	-14.11	-14.17	-14.22	-14.24	-14.24	-14.31	-14.4	-14.39	-14.41	-15.33	-15.6	-15.83	-15.8	-15.59	-15.42	-15.32	-15.31	-14.83	-14.93	-14.91
-12.57	-12.39	-12.46	-12.52	-12.56	-12.56	-12.66	-12.76	-12.75	-12.78	-13.37	-13.64	-13.85	-13.84	-13.64	-13.45	-13.35	-13.33	-12.83	-12.93	-12.89
-1.81	-1.64	-1.71	-1.7	-1.74	-1.72	-1.71	-1.8	-1.61	-1.79	-1.5	-1.84	-1.88	-1.85	-1.78	-1.44	-1.39	-1.32	-0.96	-0.86	-0.95
165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
285	285	285	285	105	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
-32.47	-32.56	-32.74	-33.65	-34.96	-34.45	-35.64	-36.62	-37.72	-38.26	-40.39	-47.69	-43.23	-39.29	-37.63	-41.18	-45.01	-46.41	-42.96	-41.18	-38.64
15	15	15	15	15	15	15	15	15	15	15	90	15	15	75	75	75	75	75	75	75
165	165	165	165	165	165	165	165	165	165	165	0	165	180	270	270	270	270	270	330	330
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.05	-8.9	-8.99	-8.93	-8.98	-8.82	-8.92	-8.92	-9.02	-9.17	-9.17	-9.43	-9.68	-9.69	-9.45	-9.3	-9.03	-8.85	-8.44	-8.52	-8.58
-14.65	-14.57	-14.71	-14.52	-14.49	-14.37	-14.5	-14.53	-14.63	-14.78	-14.73	-14.94	-15.17	-15.14	-14.86	-14.68	-14.4	-14.24	-13.88	-13.95	-14.06
-10.45	-10.27	-10.35	-10.34	-10.41	-10.23	-10.33	-10.31	-10.42	-10.57	-10.59	-10.87	-11.12	-11.15	-10.93	-10.78	-10.51	-10.33	-9.91	-9.98	-10.02
-0.91	-0.76	-0.8	-0.72	-0.91	-0.62	-0.83	-0.9	-0.96	-1.2	-1.3	-1.59	-1.82	-1.88	-1.71	-1.54	-1.27	-1.1	-0.74	-1.05	-1.04
8.14	8.14	8.19	8.21	8.07	8.2	8.09	8.02	8.06	7.97	7.87	7.84	7.86	7.81	7.74	7.76	7.76	7.75	7.7	7.47	7.54
-9.05	-8.9	-8.99	-8.93	-8.98	-8.82	-8.92	-8.92	-9.02	-9.17	-9.17	-9.43	-9.68	-9.69	-9.45	-9.3	-9.03	-8.85	-8.44	-8.52	-8.58
12.45	12.88	12.62	12.79	12.65	13.12	12.82	12.82	12.53	12.11	12.11	11.4	10.76	10.74	11.35	11.75	12.5	13.03	14.32	14.06	13.87
-0.91	-0.76	-0.8	-0.72	-0.91	-0.62	-0.83	-0.9	-0.96	-1.2	-1.3	-1.59	-1.82	-1.88	-1.71	-1.54	-1.27	-1.1	-0.74	-1.05	-1.04
-13.2	-13.1	-13.21	-12.97	-12.91	-12.75	-12.85	-12.83	-12.93	-13.03	-12.98	-13.2	-13.44	-13.41	-13.15	-12.99	-12.72	-12.56	-12.21	-12.28	-12.38
-11.19	-11.08	-11.18	-11.03	-11.02	-10.86	-10.96	-10.94	-11.02	-11.14	-11.12	-11.35	-11.59	-11.58	-11.34	-11.18	-10.92	-10.76	-10.38	-10.44	-10.53
-0.91	-0.76	-0.8	-0.72	-0.91	-0.62	-0.83	-0.9	-0.96	-1.2	-1.3	-1.59	-1.82	-1.88	-1.71	-1.54	-1.27	-1.1	-0.74	-1.05	-1.04
120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
-38.5	-52.17	-42.45	-45.86	-40.31	-39.08	-38.63	-38.81	-46.78	-40.48	-43.89	-41.16	-47.99	-40.98	-39.37	-36.26	-41.33	-41.8	-41.34	-38.14	-34.99
90	75	15	15	15	90	60	60	60	60	0	90	15	90	90	90	30	30	45	45	45
270	0	195	195	195	270	120	135	135	135	15	270	225	270	270	270	210	210	165	165	165

1.895GHz	1.9GHz	1.905GHz	1.91GHz	1.915GHz	1.92GHz	1.925GHz	1.93GHz	1.935GHz	1.94GHz	1.945GHz	1.95GHz	1.955GHz	1.96GHz	1.965GHz	1.97GHz	1.975GHz	1.98GHz	1.985GHz	1.99GHz	1.995GHz
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.35	-6.2	-6.01	-5.63	-5.83	-5.69	-5.7	-5.35	-5.52	-5.59	-5.4	-4.65	-4.44	-4.44	-4.71	-4.61	-4.31	-4.01	-4.21	-4.31	-4.08
-11.89	-11.77	-11.62	-11.22	-11.45	-11.32	-11.35	-10.99	-11.14	-11.23	-11	-10.24	-9.99	-9.95	-10.22	-10.08	-9.75	-9.44	-9.59	-9.64	-9.35
-7.78	-7.61	-7.41	-7.03	-7.22	-7.07	-7.08	-6.73	-6.92	-6.97	-6.8	-6.06	-5.86	-5.88	-6.15	-6.06	-5.77	-5.47	-5.69	-5.82	-5.61
-0.62	-0.49	-0.28	0.09	-0.15	-0.01	0.04	0.38	0.1	-0.05	0.23	0.82	0.98	1.13	0.88	1.01	1.45	1.73	1.68	1.76	1.96
5.73	5.71	5.73	5.72	5.68	5.68	5.74	5.73	5.62	5.54	5.63	5.47	5.42	5.57	5.59	5.62	5.76	5.74	5.89	6.07	6.04
-6.35	-6.2	-6.01	-5.63	-5.83	-5.69	-5.7	-5.35	-5.52	-5.59	-5.4	-4.65	-4.44	-4.44	-4.71	-4.61	-4.31	-4.01	-4.21	-4.31	-4.08
23.17	23.99	25.06	27.35	26.12	26.98	26.92	29.17	28.05	27.61	28.84	34.28	35.97	35.97	33.81	34.59	37.07	39.72	37.93	37.07	39.08
-0.62	-0.49	-0.28	0.09	-0.15	-0.01	0.04	0.38	0.1	-0.05	0.23	0.82	0.98	1.13	0.88	1.01	1.45	1.73	1.68	1.76	1.96
-10.62	-10.48	-10.33	-9.94	-10.16	-10.02	-10.04	-9.69	-9.84	-9.92	-9.72	-8.95	-8.73	-8.71	-9	-8.9	-8.59	-8.31	-8.48	-8.58	-8.32
-8.71	-8.56	-8.39	-8.02	-8.21	-8.08	-8.09	-7.73	-7.9	-7.98	-7.77	-7.01	-6.79	-6.77	-7.06	-6.96	-6.66	-6.36	-6.54	-6.64	-6.39
-0.62	-0.49	-0.28	0.09	-0.15	-0.01	0.04	0.38	0.1	-0.05	0.23	0.82	0.98	1.13	0.88	1.01	1.45	1.73	1.68	1.76	1.96
165	165	165	165	165	165	165	165	165	120	165	165	165	135	135	135	135	135	135	135	135
300	120	315	300	315	300	300	300	300	15	300	315	300	0	0	0	0	0	0	0	0
-24.93	-25.12	-26.37	-26.03	-25.62	-23.85	-22.53	-20.92	-21.27	-21.52	-21.62	-21.36	-21.34	-21.45	-22.47	-22.13	-22.13	-21.51	-21.19	-20.62	-20.07
75	15	15	15	15	15	15	15	30	30	30	30	30	30	30	30	30	30	30	30	30
270	105	120	105	135	135	150	150	195	195	195	195	195	195	195	195	195	195	195	195	195
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.08	-9.98	-9.8	-9.39	-9.61	-9.44	-9.48	-9.12	-9.28	-9.42	-9.24	-8.54	-8.34	-8.38	-8.57	-8.46	-8.25	-7.88	-8.19	-8.29	-8.05
-15.71	-15.62	-15.45	-15.05	-15.3	-15.14	-15.2	-14.85	-14.99	-15.15	-14.93	-14.21	-13.94	-13.91	-14.03	-13.87	-13.59	-13.16	-13.38	-13.37	-13.04
-11.47	-11.37	-11.18	-10.76	-10.97	-10.8	-10.83	-10.48	-10.63	-10.77	-10.61	-9.92	-9.74	-9.81	-10.02	-9.94	-9.75	-9.4	-9.75	-9.91	-9.71
-1.09	-0.98	-0.86	-0.52	-0.56	-0.47	-0.62	-0.25	-0.55	-0.66	-0.5	0.06	0.39	0.06	0	0.1	0.15	0.55	0.13	-0.07	0.1
8.99	9	8.94	8.87	9.05	8.97	8.86	8.87	8.73	8.76	8.74	8.6	8.73	8.44	8.57	8.56	8.4	8.43	8.32	8.22	8.15
-10.08	-9.98	-9.8	-9.39	-9.61	-9.44	-9.48	-9.12	-9.28	-9.42	-9.24	-8.54	-8.34	-8.38	-8.57	-8.46	-8.25	-7.88	-8.19	-8.29	-8.05
9.82	10.05	10.47	11.51	10.94	11.38	11.27	12.25	11.8	11.43	11.91	14	14.66	14.52	13.9	14.26	14.96	16.29	15.17	14.83	15.67
-1.09	-0.98	-0.86	-0.52	-0.56	-0.47	-0.62	-0.25	-0.55	-0.66	-0.5	0.06	0.39	0.06	0	0.1	0.15	0.55	0.13	-0.07	0.1
-15.08	-14.98	-14.82	-14.43	-14.67	-14.51	-14.57	-14.22	-14.36	-14.51	-14.31	-13.6	-13.37	-13.4	-13.56	-13.47	-13.23	-12.86	-13.16	-13.22	-12.96
-13.06	-12.95	-12.79	-12.39	-12.62	-12.45	-12.5	-12.13	-12.28	-12.43	-12.21	-11.5	-11.27	-11.29	-11.45	-11.34	-11.11	-10.72	-11.01	-11.07	-10.8
-1.09	-0.98	-0.86	-0.52	-0.56	-0.47	-0.62	-0.25	-0.55	-0.66	-0.5	0.06	0.39	0.06	0	0.1	0.15	0.55	0.13	-0.07	0.1
165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
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-40.47	-41.14	-47.17	-41.14	-41.03	-40.2	-35.82	-33.15	-36.53	-35.67	-32.53	-30.07	-29.99	-29.57	-30.29	-32.82	-36.49	-37.03	-34.26	-30.77	-28.77
15	15	15	15	15	15	15	15	15	15	15	15	15	15	30	30	30	30	30	30	30
210	210	210	210	210	210	210	210	195	195	195	180	180	180	195	180	180	180	180	180	180
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-8.75	-8.55	-8.36	-8	-8.19	-8.06	-8.05	-7.71	-7.9	-7.91	-7.71	-6.93	-6.71	-6.68	-7.02	-6.91	-6.55	-6.3	-6.42	-6.53	-6.3
-14.22	-14.07	-13.93	-13.54	-13.75	-13.64	-13.65	-13.3	-13.45	-13.49	-13.26	-12.46	-12.24	-12.18	-12.56	-12.44	-12.07	-11.83	-11.93	-12.03	-11.77
-10.19	-9.98	-9.78	-9.42	-9.6	-9.47	-9.45	-9.11	-9.32	-9.32	-9.13	-8.36	-8.14	-8.12	-8.44	-8.34	-7.98	-7.73	-7.86	-7.97	-7.76
-1.28	-1.11	-1.01	-0.69	-0.93	-0.76	-0.8	-0.41	-0.52	-0.52	-0.26	0.42	0.75	0.92	0.65	0.77	1.2	1.45	1.41	1.47	1.65
7.47	7.44	7.35	7.31	7.26	7.3	7.25	7.3	7.38	7.39	7.45	7.35	7.46	7.6	7.67	7.68	7.75	7.75	7.83	8	7.95
-8.75	-8.55	-8.36	-8	-8.19	-8.06	-8.05	-7.71	-7.9	-7.91	-7.71	-6.93	-6.71	-6.68	-7.02	-6.91	-6.55	-6.3	-6.42	-6.53	-6.3
13.34	13.96	14.59	15.85	15.17	15.63	15.67	16.94	16.22	16.18	16.94	20.28	21.33	21.48	19.86	20.37	22.13	23.44	22.8	22.23	23.44
-1.28	-1.11	-1.01	-0.69	-0.93	-0.76	-0.8	-0.41	-0.52	-0.52	-0.26	0.42	0.75	0.92	0.65	0.77	1.2	1.45	1.41	1.47	1.65
-12.54	-12.38	-12.23	-11.85	-12.05	-11.93	-11.93	-11.57	-11.74	-11.78	-11.57	-10.78	-10.56	-10.5	-10.88	-10.77	-10.42	-10.18	-10.28	-10.4	-10.14
-10.7	-10.52	-10.35	-9.99	-10.17	-10.05	-10.04	-9.69	-9.88	-9.91	-9.7	-8.91	-8.71	-8.66	-9.02	-8.92	-8.59	-8.34	-8.46	-8.59	-8.35
-1.28	-1.11	-1.01	-0.69	-0.93	-0.76	-0.8	-0.41	-0.52	-0.52	-0.26	0.42	0.75	0.92	0.65	0.77	1.2	1.45	1.41	1.47	1.65
120	120	120	120	120	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135
15	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.21	-40.82	-37.79	-36.82	-53.13	-36.34	-34.59	-33.87	-34.27	-33.15	-34.1	-34.1	-31.97	-30.42	-31.04	-31.67	-32.2	-32.42	-34.21	-33.26	-33.33
0	0	0	15	15	30	75	75	75	75	75	75	75	75	60	60	60	60	60	60	60
105	105	105	135	135	180	105	105	105	105	105	90	90	90	90	165	165	165	165	165	165



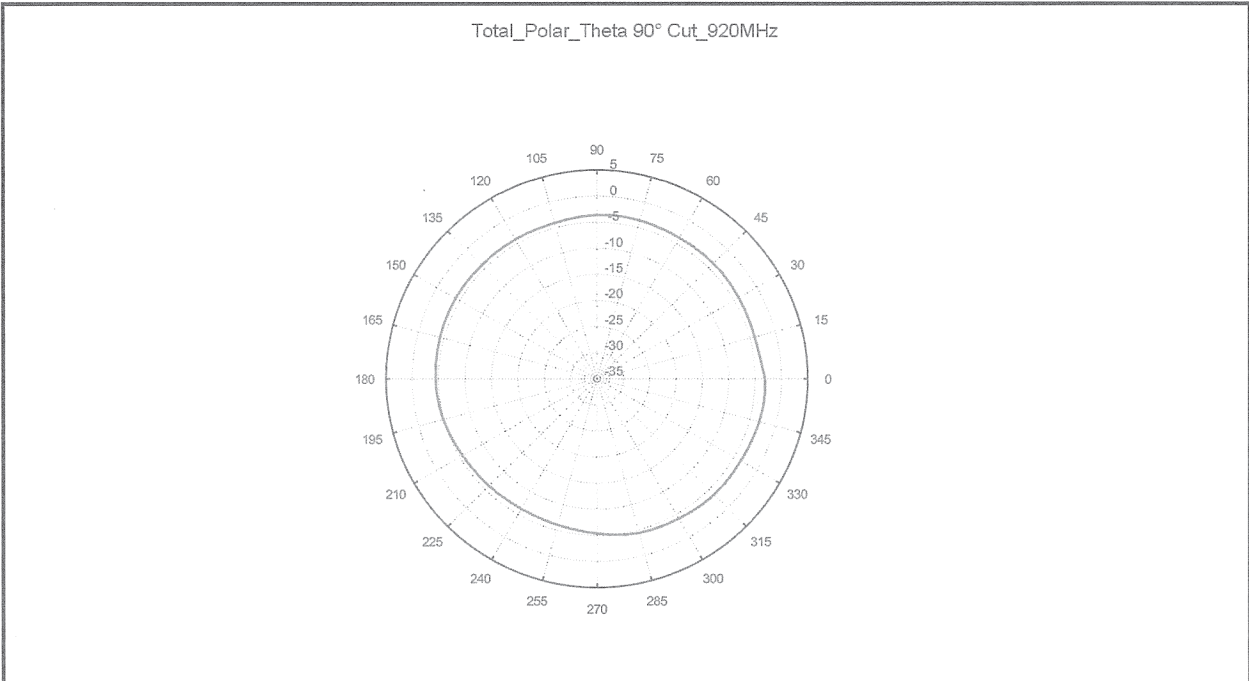
2.105GHz	2.11GHz	2.115GHz	2.12GHz	2.125GHz	2.13GHz	2.135GHz	2.14GHz	2.145GHz	2.15GHz	2.155GHz	2.16GHz	2.165GHz	2.17GHz	2.175GHz	2.18GHz	2.185GHz	2.19GHz	2.195GHz	2.2GHz	2.45GHz
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.88	-3.9	-3.8	-4.09	-4.29	-4.46	-3.91	-3.85	-3.76	-3.98	-3.93	-3.72	-3.96	-4.59	-4.25	-4.09	-3.58	-3.53	-4.07	-4.17	-4.47
-8.37	-8.39	-8.28	-8.55	-8.79	-8.95	-8.4	-8.38	-8.35	-8.58	-8.53	-8.36	-8.58	-9.21	-8.88	-8.73	-8.19	-8.1	-8.63	-8.69	-8.11
-5.79	-5.8	-5.71	-6.01	-6.19	-6.37	-5.81	-5.74	-5.62	-5.84	-5.78	-5.56	-5.8	-6.43	-6.08	-5.92	-5.42	-5.39	-5.94	-6.07	-6.93
1.59	1.5	1.42	1.23	1.14	0.66	1.13	1.36	1.24	1.06	1.25	1.32	0.85	0.22	0.91	0.84	1.41	1.54	1.01	0.77	1.39
5.47	5.4	5.22	5.32	5.43	5.12	5.04	5.21	5	5.04	5.18	5.04	4.81	4.81	5.16	4.93	4.99	5.07	5.08	4.94	5.86
-3.88	-3.9	-3.8	-4.09	-4.29	-4.46	-3.91	-3.85	-3.76	-3.98	-3.93	-3.72	-3.96	-4.59	-4.25	-4.09	-3.58	-3.53	-4.07	-4.17	-4.47
40.93	40.74	41.69	38.99	37.24	35.81	40.64	41.21	42.07	39.99	40.46	42.46	40.18	34.75	37.58	38.99	43.85	44.36	39.17	38.28	35.73
1.59	1.5	1.42	1.23	1.14	0.66	1.13	1.36	1.24	1.06	1.25	1.32	0.85	0.22	0.91	0.84	1.41	1.54	1.01	0.77	1.39
-7.7	-7.73	-7.64	-7.92	-8.16	-8.31	-7.74	-7.71	-7.67	-7.88	-7.8	-7.62	-7.81	-8.46	-8.09	-7.9	-7.35	-7.24	-7.77	-7.79	-7.7
-5.86	-5.89	-5.8	-6.07	-6.3	-6.47	-5.91	-5.88	-5.83	-6.04	-5.98	-5.8	-6.03	-6.68	-6.35	-6.18	-5.65	-5.57	-6.13	-6.17	-6.39
1.59	1.5	1.42	1.23	1.14	0.66	1.13	1.36	1.24	1.06	1.25	1.32	0.85	0.22	0.91	0.84	1.41	1.54	1.01	0.77	1.39
135	120	120	120	120	135	120	120	120	120	135	120	135	135	135	120	135	135	135	135	135
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-16.67	-16.77	-16.52	-16.6	-16.84	-17.08	-16.54	-16.82	-16.84	-17.37	-17.72	-17.96	-18.81	-20.11	-20.27	-20.69	-20.84	-21.42	-22.76	-23.51	-14.63
45	45	45	45	45	45	30	30	30	30	30	30	30	30	30	30	30	30	30	30	45
195	195	195	195	195	195	210	210	210	210	210	210	210	210	210	210	210	210	210	210	180
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-7.28	-7.28	-6.98	-7.21	-7.34	-7.48	-6.92	-6.79	-6.69	-6.87	-6.8	-6.52	-6.81	-7.34	-7.11	-7.09	-6.71	-6.81	-7.37	-7.57	-9.55
-11.39	-11.43	-11.17	-11.4	-11.59	-11.76	-11.22	-11.16	-11.11	-11.32	-11.29	-11.05	-11.35	-11.88	-11.7	-11.72	-11.35	-11.44	-12	-12.21	-13.72
-9.42	-9.39	-9.07	-9.29	-9.39	-9.51	-8.93	-8.76	-8.63	-8.81	-8.71	-8.41	-8.69	-9.22	-8.96	-8.93	-8.54	-8.64	-9.2	-9.39	-11.65
-1.62	-1.51	-1.25	-1.39	-1.61	-1.96	-1.03	-1.11	-0.81	-1.11	-1.01	-0.71	-0.95	-1.69	-1.18	-1.11	-0.78	-0.65	-1.24	-1.45	-1.83
5.66	5.77	5.73	5.82	5.73	5.52	5.89	5.68	5.88	5.76	5.79	5.81	5.86	5.65	5.93	5.98	5.93	6.16	6.13	6.12	7.72
-7.28	-7.28	-6.98	-7.21	-7.34	-7.48	-6.92	-6.79	-6.69	-6.87	-6.8	-6.52	-6.81	-7.34	-7.11	-7.09	-6.71	-6.81	-7.37	-7.57	-9.55
18.71	18.71	20.04	19.01	18.45	17.86	20.32	20.94	21.43	20.56	20.89	22.28	20.84	18.45	19.45	19.54	21.33	20.84	18.32	17.5	11.09
-1.62	-1.51	-1.25	-1.39	-1.61	-1.96	-1.03	-1.11	-0.81	-1.11	-1.01	-0.71	-0.95	-1.69	-1.18	-1.11	-0.78	-0.65	-1.24	-1.45	-1.83
-11.7	-11.72	-11.43	-11.66	-11.83	-11.95	-11.38	-11.28	-11.18	-11.36	-11.28	-11	-11.28	-11.8	-11.61	-11.62	-11.23	-11.33	-11.9	-12.11	-13.92
-9.6	-9.62	-9.33	-9.55	-9.7	-9.84	-9.27	-9.15	-9.06	-9.24	-9.17	-8.89	-9.19	-9.71	-9.51	-9.51	-9.12	-9.22	-9.8	-9.99	-12.08
-1.62	-1.51	-1.25	-1.39	-1.61	-1.96	-1.03	-1.11	-0.81	-1.11	-1.01	-0.71	-0.95	-1.69	-1.18	-1.11	-0.78	-0.65	-1.24	-1.45	-1.83
165	165	165	165	135	165	135	135	135	135	135	135	135	165	165	165	165	165	165	165	165
270	270	270	270	270	270	270	270	270	255	255	255	255	285	285	285	285	285	270	285	285
-26.53	-26.57	-27.23	-28.48	-29.67	-30.55	-30.43	-30.68	-29.33	-29.38	-29.06	-27.82	-27.78	-28.04	-28.49	-29.65	-32.66	-42.75	-36.08	-31.12	-29.95
75	75	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	120
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-6.52	-6.57	-6.64	-6.99	-7.26	-7.46	-6.92	-6.94	-6.86	-7.12	-7.08	-6.96	-7.14	-7.87	-7.42	-7.11	-6.47	-6.28	-6.8	-6.83	-6.09
-11.36	-11.37	-11.41	-11.72	-12.02	-12.18	-11.61	-11.64	-11.62	-11.87	-11.8	-11.71	-11.86	-12.58	-12.09	-11.77	-11.05	-10.81	-11.31	-11.24	-9.51
-8.25	-8.31	-8.41	-8.77	-9.03	-9.25	-8.72	-8.73	-8.63	-8.89	-8.87	-8.73	-8.93	-9.67	-9.23	-8.93	-8.32	-8.17	-8.7	-8.79	-8.72
0.55	0.36	0.24	-0.2	-0.47	-0.78	-0.27	-0.38	-0.15	-0.64	-0.17	-0.48	-0.61	-1.3	-0.64	-0.37	0.24	0.4	-0.04	-0.01	1.19
7.07	6.93	6.88	6.79	6.79	6.68	6.65	6.56	6.71	6.48	6.91	6.48	6.53	6.57	6.78	6.74	6.71	6.68	6.76	6.82	7.28
-6.52	-6.57	-6.64	-6.99	-7.26	-7.46	-6.92	-6.94	-6.86	-7.12	-7.08	-6.96	-7.14	-7.87	-7.42	-7.11	-6.47	-6.28	-6.8	-6.83	-6.09
22.28	22.03	21.68	20	18.79	17.95	20.32	20.23	20.61	19.41	19.59	20.14	19.32	16.33	18.11	19.45	22.54	23.55	20.89	20.75	24.6
0.55	0.36	0.24	-0.2	-0.47	-0.78	-0.27	-0.38	-0.15	-0.64	-0.17	-0.48	-0.61	-1.3	-0.64	-0.37	0.24	0.4	-0.04	-0.01	1.19
-9.9	-9.94	-9.99	-10.3	-10.61	-10.77	-10.19	-10.23	-10.23	-10.46	-10.38	-10.29	-10.4	-11.16	-10.66	-10.31	-9.63	-9.38	-9.9	-9.8	-8.88
-8.24	-8.29	-8.35	-8.67	-8.95	-9.15	-8.59	-8.64	-8.62	-8.87	-8.82	-8.73	-8.9	-9.67	-9.21	-8.89	-8.25	-8.02	-8.56	-8.5	-7.75
0.55	0.36	0.24	-0.2	-0.47	-0.78	-0.27	-0.38	-0.15	-0.64	-0.17	-0.48	-0.61	-1.3	-0.64	-0.37	0.24	0.4	-0.04	-0.01	1.19
135	135	105	105	105	135	105	135	135	135	135	135	90	135	90	90	90	90	90	90	135
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60	60	60	60	60	60	60	60	60	60	60	60	60	60	15	75	75	75	45	45	150
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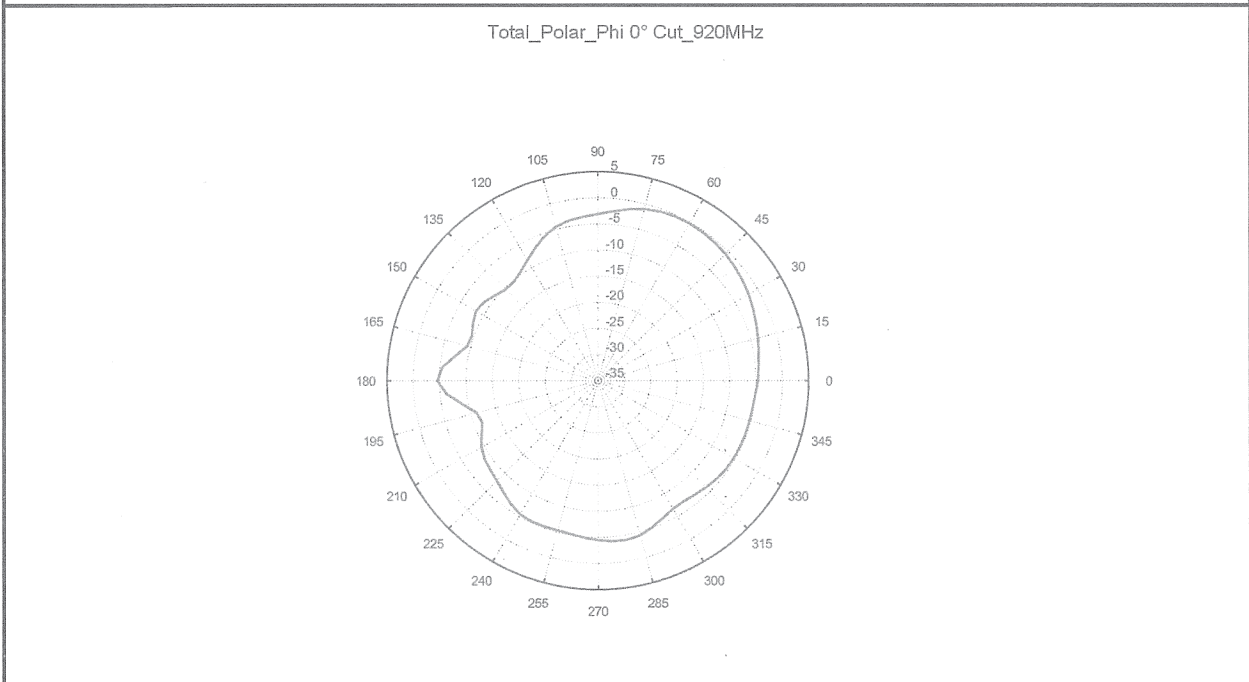
2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz	2.51GHz	2.52GHz	2.53GHz	2.54GHz	2.55GHz	2.56GHz	2.57GHz	2.58GHz	2.59GHz	2.6GHz	2.61GHz	2.62GHz	2.63GHz	2.64GHz	2.65GHz	2.66GHz	2.67GHz
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-7.39	-7.53	-7.97	-8.04	-8.31	-8.07	-8.15	-7.93	-8.01	-8.22	-8.02	-8.07	-8.23	-9.08	-7.79	-8.52	-9.01	-9.11	-8.97	-8.35	-9.26	-9
0.86	0.62	0.05	-0.06	-0.67	-0.74	-0.56	-0.67	-0.78	-1.19	-0.95	-1.04	-1.08	-1.77	-0.39	-1.36	-1.87	-2.04	-1.97	-1.43	-2.22	-2.44
5.76	5.62	5.49	5.46	5.12	4.83	5.13	4.84	4.83	4.6	4.56	4.42	4.51	4.67	4.76	4.55	4.52	4.43	4.33	4.22	4.3	3.82
-4.9	-5	-5.44	-5.52	-5.79	-5.57	-5.69	-5.51	-5.61	-5.79	-5.51	-5.46	-5.59	-6.44	-5.15	-5.91	-6.39	-6.47	-6.3	-5.65	-6.52	-6.26
32.36	31.62	28.58	28.05	26.36	27.73	26.98	28.12	27.48	26.36	28.12	28.44	27.61	22.7	30.55	25.64	22.96	22.54	23.44	27.23	22.28	23.66
0.86	0.62	0.05	-0.06	-0.67	-0.74	-0.56	-0.67	-0.78	-1.19	-0.95	-1.04	-1.08	-1.77	-0.39	-1.36	-1.87	-2.04	-1.97	-1.43	-2.22	-2.44
-8.08	-8.15	-8.6	-8.74	-9.04	-8.82	-8.94	-8.74	-8.78	-8.87	-8.47	-8.34	-8.5	-9.41	-8.18	-9.03	-9.56	-9.69	-9.56	-8.93	-9.95	-9.68
-6.78	-6.86	-7.29	-7.39	-7.65	-7.41	-7.51	-7.3	-7.37	-7.49	-7.16	-7.06	-7.21	-8.1	-6.84	-7.64	-8.14	-8.23	-8.07	-7.43	-8.41	-8.13
0.86	0.62	0.05	-0.06	-0.67	-0.74	-0.56	-0.67	-0.78	-1.19	-0.95	-1.04	-1.08	-1.77	-0.39	-1.36	-1.87	-2.04	-1.97	-1.43	-2.22	-2.44
135	135	135	135	135	135	135	135	135	135	135	60	135	135	135	135	135	135	135	135	135	135
15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.41	-16.19	-16.7	-16.67	-16.29	-15.22	-15.01	-14.45	-14.21	-14.49	-14.61	-15.12	-15.77	-17.28	-16.45	-17.66	-18.52	-19.06	-18.58	-17.75	-17.52	-18.87
45	45	45	45	45	45	45	105	105	105	105	105	105	105	90	90	90	90	90	90	75	75
180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	195	195
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.91	-10.03	-10.2	-9.99	-10.06	-9.93	-10.18	-9.84	-9.78	-9.95	-9.94	-10.06	-10.13	-10.93	-9.68	-10.2	-10.71	-10.73	-10.53	-9.84	-10.52	-10.25
-14.18	-14.39	-14.6	-14.37	-14.37	-14.22	-14.54	-14.29	-14.34	-14.63	-14.73	-14.87	-14.92	-15.65	-14.29	-14.74	-15.18	-15.08	-14.79	-14.01	-14.36	-14.14
-11.94	-12.01	-12.16	-11.97	-12.07	-11.95	-12.16	-11.77	-11.65	-11.76	-11.7	-11.8	-11.88	-12.72	-11.52	-12.09	-12.63	-12.71	-12.56	-11.94	-12.83	-12.53
-2.48	-2.95	-3.4	-3.2	-3.15	-2.84	-2.95	-2.5	-2.38	-2.49	-2.52	-2.55	-2.65	-3.65	-2.52	-3.1	-3.66	-3.77	-3.54	-2.89	-3.65	-3.58
7.43	7.08	6.8	6.79	6.91	7.09	7.23	7.34	7.4	7.46	7.42	7.51	7.48	7.28	7.16	7.1	7.05	6.96	6.99	6.95	6.87	6.67
-9.91	-10.03	-10.2	-9.99	-10.06	-9.93	-10.18	-9.84	-9.78	-9.95	-9.94	-10.06	-10.13	-10.93	-9.68	-10.2	-10.71	-10.73	-10.53	-9.84	-10.52	-10.25
10.21	9.93	9.55	10.02	9.86	10.16	9.59	10.38	10.52	10.12	10.14	9.86	9.71	8.07	10.76	9.55	8.49	8.45	8.85	10.38	8.87	9.44
-2.48	-2.95	-3.4	-3.2	-3.15	-2.84	-2.95	-2.5	-2.38	-2.49	-2.52	-2.55	-2.65	-3.65	-2.52	-3.1	-3.66	-3.77	-3.54	-2.89	-3.65	-3.58
-14.26	-14.35	-14.47	-14.22	-14.23	-14.1	-14.36	-14.03	-13.96	-14.14	-14.14	-14.22	-14.24	-14.99	-13.71	-14.27	-14.82	-14.85	-14.68	-14	-14.63	-14.49
-12.4	-12.47	-12.59	-12.33	-12.32	-12.15	-12.37	-12.02	-11.94	-12.11	-12.1	-12.2	-12.26	-13.07	-11.83	-12.39	-12.92	-12.92	-12.72	-12.03	-12.7	-12.51
-2.48	-2.95	-3.4	-3.2	-3.15	-2.84	-2.95	-2.5	-2.38	-2.49	-2.52	-2.55	-2.65	-3.65	-2.52	-3.1	-3.66	-3.77	-3.54	-2.89	-3.65	-3.58
165	165	135	120	120	120	120	120	120	120	120	165	165	165	165	165	165	165	165	165	165	165
285	285	240	270	270	270	270	270	270	270	270	285	285	285	285	270	270	270	270	270	270	270
-28.43	-30.52	-40.47	-33.76	-28.23	-29.5	-38.17	-33.51	-29.49	-26.63	-32.51	-44.65	-29.95	-33.69	-36.7	-33.26	-37.47	-47.09	-37.68	-36.92	-36.68	-43.33
15	15	15	120	120	60	30	45	165	165	30	30	30	90	90	105	45	45	30	45	0	75
270	270	270	60	60	330	120	0	135	135	135	135	135	0	15	45	75	135	120	90	90	150
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.55	-6.64	-7.2	-7.43	-7.82	-7.55	-7.59	-7.51	-7.71	-7.88	-7.45	-7.31	-7.47	-8.34	-7.03	-7.93	-8.39	-8.52	-8.37	-7.73	-8.72	-8.47
-9.86	-9.87	-10.37	-10.6	-10.99	-10.77	-10.88	-10.81	-10.98	-11.04	-10.46	-10.18	-10.3	-11.18	-9.9	-10.83	-11.32	-11.46	-11.3	-10.63	-11.69	-11.42
-9.27	-9.45	-10.06	-10.3	-10.68	-10.37	-10.35	-10.24	-10.48	-10.75	-10.46	-10.46	-10.68	-11.54	-10.19	-11.04	-11.49	-11.6	-11.46	-10.85	-11.77	-11.54
0.65	0.39	-0.2	-0.35	-0.99	-1.04	-0.81	-0.92	-1.01	-1.43	-1.15	-1.39	-1.23	-1.91	-0.53	-1.53	-2.02	-2.2	-2.13	-1.61	-2.48	-2.64
7.2	7.03	7	7.08	6.83	6.51	6.78	6.59	6.7	6.45	6.3	5.92	6.24	6.43	6.5	6.4	6.37	6.32	6.24	6.12	6.24	5.83
-6.55	-6.64	-7.2	-7.43	-7.82	-7.55	-7.59	-7.51	-7.71	-7.88	-7.45	-7.31	-7.47	-8.34	-7.03	-7.93	-8.39	-8.52	-8.37	-7.73	-8.72	-8.47
22.13	21.68	19.05	18.07	16.52	17.58	17.42	17.74	16.94	16.29	17.99	18.58	17.91	14.66	19.82	16.11	14.49	14.06	14.55	16.87	13.43	14.22
0.65	0.39	-0.2	-0.35	-0.99	-1.04	-0.81	-0.92	-1.01	-1.43	-1.15	-1.39	-1.23	-1.91	-0.53	-1.53	-2.02	-2.2	-2.13	-1.61	-2.48	-2.64
-9.27	-9.35	-9.91	-10.18	-10.6	-10.35	-10.41	-10.26	-10.36	-10.4	-9.85	-9.64	-9.84	-10.81	-9.6	-10.58	-11.1	-11.27	-11.16	-10.54	-11.76	-11.43
-8.17	-8.25	-8.81	-9.07	-9.46	-9.18	-9.23	-9.09	-9.23	-9.33	-8.83	-8.65	-8.84	-9.77	-8.49	-9.41	-9.89	-10.03	-9.9	-9.28	-10.43	-10.09
0.65	0.39	-0.2	-0.35	-0.99	-1.04	-0.81	-0.92	-1.01	-1.43	-1.15	-1.39	-1.23	-1.91	-0.53	-1.53	-2.02	-2.2	-2.13	-1.61	-2.48	-2.64
135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135
15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.93	-24.53	-25.52	-27.82	-29.51	-27.43	-36.68	-31.14	-36.86	-33.62	-29.99	-30.57	-35.32	-34.55	-28.62	-27.72	-30.94	-39.08	-37.43	-37.22	-33.91	-27.97
150	60	60	15	15	105	105	105	105	45	45	120	105	15	105	120	150	150	150	120	120	135
135	180	180	0	0	195	195	180	180	180	180	120	195	0	120	165	165	150	150	165	165	165

2.68GHz	2.69GHz	2.7GHz	2.71GHz	2.72GHz
0	0	0	0	0
-6.19	-6.29	-6.06	-6.35	-6.57
-9.44	-9.49	-9.19	-9.44	-9.65
-8.98	-9.12	-8.96	-9.28	-9.51
-2.77	-3.12	-2.92	-3.1	-3.2
3.42	3.17	3.14	3.25	3.37
-6.19	-6.29	-6.06	-6.35	-6.57
24.04	23.5	24.77	23.17	22.03
-2.77	-3.12	-2.92	-3.1	-3.2
-9.58	-9.69	-9.46	-9.79	-10.09
-8.03	-8.13	-7.9	-8.2	-8.46
-2.77	-3.12	-2.92	-3.1	-3.2
135	135	15	15	15
0	0	225	225	225
-18.01	-18.64	-18.07	-17.78	-17.59
75	75	75	75	165
180	180	180	180	15
0	0	0	0	0
-9.99	-9.96	-9.74	-9.92	-9.94
-13.88	-13.78	-13.47	-13.59	-13.55
-12.27	-12.28	-12.14	-12.37	-12.42
-3.45	-3.6	-3.53	-3.91	-3.96
6.54	6.36	6.21	6.01	5.98
-9.99	-9.96	-9.74	-9.92	-9.94
10.02	10.09	10.62	10.19	10.14
-3.45	-3.6	-3.53	-3.91	-3.96
-14.19	-14.09	-13.81	-13.97	-13.98
-12.21	-12.14	-11.89	-12.07	-12.1
-3.45	-3.6	-3.53	-3.91	-3.96
165	165	165	0	15
270	270	270	0	195
-35.84	-32.75	-32.51	-35.72	-34.59
45	75	75	105	105
105	165	165	45	45
0	0	0	0	0
-8.54	-8.73	-8.5	-8.86	-9.25
-11.38	-11.52	-11.22	-11.54	-11.93
-11.73	-11.97	-11.82	-12.21	-12.63
-3.03	-3.48	-3.31	-3.76	-4
5.51	5.25	5.19	5.1	5.25
-8.54	-8.73	-8.5	-8.86	-9.25
14	13.4	14.13	13	11.89
-3.03	-3.48	-3.31	-3.76	-4
-11.42	-11.64	-11.45	-11.88	-12.37
-10.12	-10.32	-10.1	-10.49	-10.93
-3.03	-3.48	-3.31	-3.76	-4
135	135	120	120	0
0	0	30	30	90
-31.48	-28.26	-26.94	-27.47	-29.43
135	135	15	150	150
150	150	180	150	150

# HSGW-MAX8-DT18-QT-E-SF1-2W-868&919 1.0J



Theta 90 2D Pattern

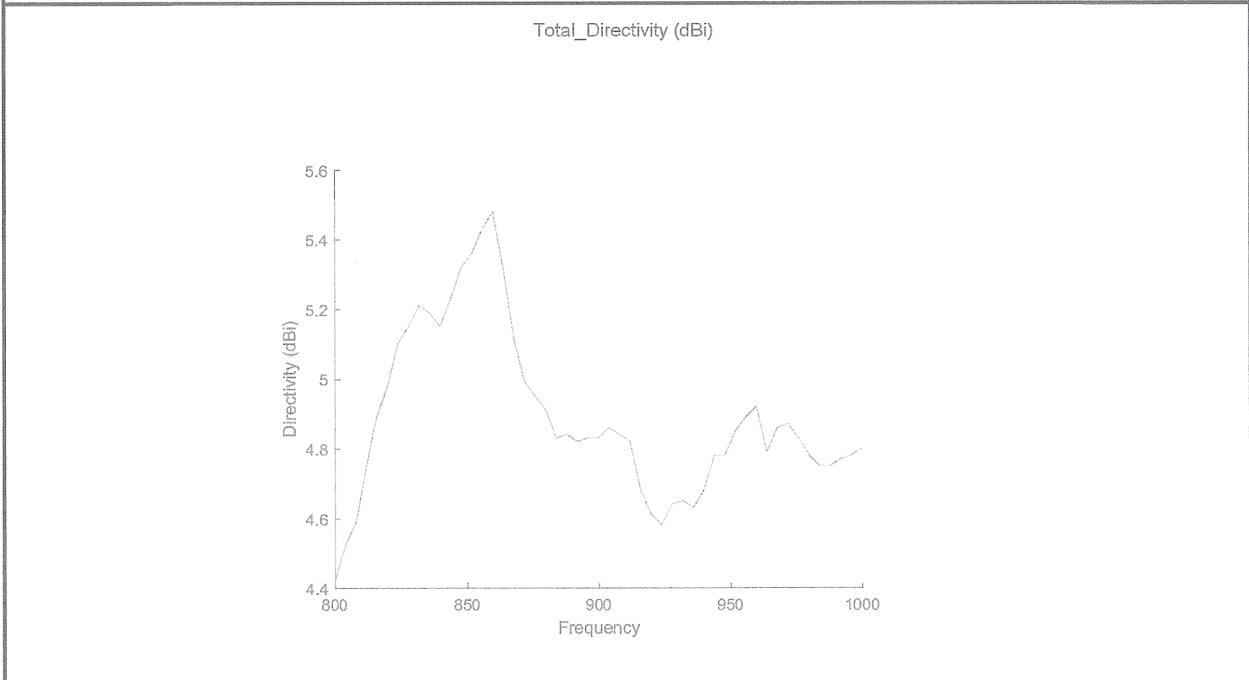


Phi 0 2D Pattern

# HSGW-MAX8-DT18-QT-E-SF1-2W-868&919 1.0J



## Phi 90 2D Pattern



## Directivity