

Test Report

OTA Test Results for Frequency 2400.000 MHz

OTA Evaluation Results:

Total Radiated Power	0.02 dBm
Peak EIRP	6.32 dBm
Directivity	6.30 dBi
Efficiency	0.02 dB
Efficiency	100.38 %
Gain	6.32 dBi
NHPRP 45°	-1.82 dBm
NHPRP 45° / TRP	-1.84 dB
NHPRP 45° / TRP	65.53 %
NHPRP 30°	-3.73 dBm
NHPRP 30° / TRP	-3.74 dB
NHPRP 30° / TRP	42.22 %
NHPRP 22.5°	-4.89 dBm
NHPRP 22.5° / TRP	-4.91 dB
NHPRP 22.5° / TRP	32.32 %
UHRP	-3.62 dBm
UHRP / TRP	-3.64 dB
UHRP / TRP	43.27 %
LHRP	-2.45 dBm
LHRP / TRP	-2.46 dB
LHRP / TRP	56.73 %
Front/Back Ratio	4.65
PhiBW	360.0 deg
PhiBW Up	360.0 deg
PhiBW Down	360.0 deg
ThetaBW	23.0 deg
ThetaBW Up	11.3 deg
ThetaBW Down	11.7 deg
Boresight Phi	150 deg
Boresight Theta	180 deg
Maximum Power	6.32 dBm
Minimum Power	-14.64 dBm
Average Power	1.02 dBm
Max/Min Ratio	20.95 dB
Max/Avg Ratio	5.30 dB
Min/Avg Ratio	-15.66 dB
Best Single Value	5.85 dBm
Best Position	Phi = 360 deg; Theta = 180 deg; Pol = Ver

RP_2400.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	0.45	-1.44	-6.01	2.45	1.08	-0.97	2.63	3.38	-0.12	1.96	2.91	3.54	5.88
15.00	0.01	-0.19	-2.67	3.46	2.10	0.88	4.84	3.44	0.58	3.34	4.84	3.08	5.65
30.00	-0.29	0.56	-0.59	4.17	2.40	2.79	5.04	1.74	2.50	4.72	5.61	3.01	5.48
45.00	-0.17	0.89	0.34	4.69	2.70	3.82	3.63	-0.07	3.95	4.76	5.64	2.69	5.38
60.00	0.04	0.94	0.71	4.93	2.67	3.64	1.16	0.38	3.80	3.53	5.05	1.85	5.33
75.00	-0.07	0.76	0.86	4.74	2.10	2.15	-2.22	0.42	2.08	0.69	3.93	0.57	5.12
90.00	-0.31	0.46	0.82	3.97	1.31	0.04	-4.07	-0.49	0.15	-3.52	3.07	-0.84	4.95
105.00	-0.43	0.01	0.78	3.07	0.84	-1.37	-3.50	-1.53	0.15	-4.82	2.85	-1.33	5.22
120.00	-0.58	-0.52	0.48	2.52	0.23	-0.57	-1.33	-2.10	1.83	0.20	3.15	-0.17	5.73
135.00	-0.79	-1.34	-0.19	2.54	-1.53	0.57	0.93	-3.86	2.73	3.31	3.47	1.41	6.14
150.00	-0.62	-2.02	-1.17	2.63	-4.05	-0.09	2.28	-5.86	1.95	4.26	3.72	2.46	6.32
165.00	-0.29	-2.95	-2.94	2.28	-5.91	-4.45	2.05	-2.05	-1.19	3.74	3.66	2.91	6.21
180.00	-0.09	-4.50	-5.15	1.18	-7.24	-14.64	-0.82	-0.16	-5.95	2.22	2.95	2.84	5.93
195.00	0.09	-6.44	-6.79	-1.55	-7.90	-9.35	-9.42	-1.18	-5.03	0.40	1.23	2.61	5.53
210.00	-0.05	-8.08	-6.19	-4.98	-5.56	-5.72	-4.24	-4.15	-2.87	-0.21	-1.26	2.55	5.30
225.00	-0.24	-8.80	-5.17	-5.58	-2.75	-4.80	-1.55	-5.11	-3.33	0.61	-3.93	2.75	5.29
240.00	-0.09	-8.46	-5.28	-4.29	-1.57	-5.20	-2.21	-3.78	-5.04	1.06	-5.75	2.91	5.29
255.00	3.90	-8.00	-6.79	-3.78	-2.41	-5.96	-4.27	-4.09	-5.77	1.28	-7.09	2.79	5.29
270.00	0.98	-7.39	-9.34	-4.23	-3.97	-6.76	-6.34	-5.89	-5.22	1.19	-8.48	2.44	5.41
285.00	1.46	-6.45	-12.27	-4.97	-5.61	-8.24	-6.20	-7.61	-4.04	0.81	-9.59	2.08	5.80
300.00	1.72	-5.32	-11.81	-5.78	-7.46	-8.51	-4.50	-8.50	-2.60	0.09	-9.29	2.01	6.05
315.00	1.80	-4.48	-11.43	-5.96	-9.44	-7.09	-3.25	-7.76	-1.13	-1.28	-7.33	2.12	6.17
330.00	1.66	-3.81	-12.26	-4.42	-6.39	-5.30	-3.72	-3.31	-0.19	-3.11	-3.80	2.37	6.21
345.00	1.28	-2.63	-10.89	-1.10	-1.46	-3.26	-2.38	0.84	0.12	-2.78	0.10	2.60	6.09
360.00	0.89	-1.51	-7.30	1.71	0.61	-1.42	1.15	2.91	-0.23	0.31	2.36	2.92	5.96

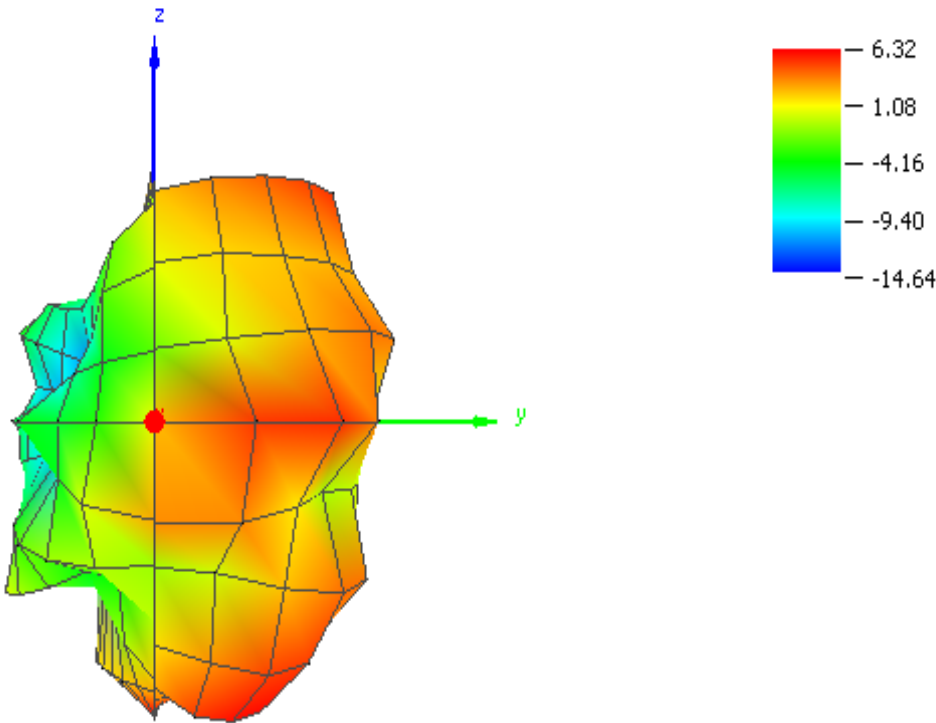
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-13.70	-12.12	-14.69	-12.09	-20.32	-12.12	-7.92	-3.44	-5.98	-9.08	-1.68	-5.62	-13.51
15.0	-10.23	-7.44	-11.76	-8.29	-14.22	-11.86	-9.04	-2.99	-11.99	-8.46	-0.13	-7.37	-6.28
30.0	-5.27	-4.29	-8.39	-4.25	-8.56	-11.91	-7.39	-5.04	-11.23	-8.16	0.29	-6.86	-0.75
45.0	-2.35	-2.00	-5.12	-0.54	-4.97	-9.59	-7.12	-8.02	-5.39	-8.61	0.93	-4.84	2.56
60.0	-0.88	-0.52	-2.52	1.83	-2.30	-6.62	-8.39	-4.63	-2.56	-7.29	1.93	-3.48	4.20
75.0	-0.35	0.26	-0.59	3.18	-0.33	-4.50	-9.86	-2.33	-1.17	-5.64	2.67	-2.36	4.85
90.0	-0.42	0.29	0.18	3.47	0.42	-3.82	-9.62	-1.91	-1.26	-5.96	2.80	-1.82	4.91
105.0	-0.87	-0.38	0.00	2.99	0.26	-3.97	-9.85	-2.53	-2.27	-8.29	2.00	-1.44	4.67
120.0	-1.82	-1.62	-1.12	1.66	-1.17	-4.16	-11.52	-4.28	-3.68	-11.74	-0.14	-1.18	4.10
135.0	-4.03	-4.29	-3.20	-0.51	-5.01	-5.15	-9.81	-9.67	-6.09	-11.59	-4.30	-1.03	2.80
150.0	-7.11	-8.27	-6.36	-3.07	-11.49	-7.30	-6.93	-18.15	-9.05	-9.05	-5.37	-1.00	0.63
165.0	-12.37	-14.76	-11.11	-5.77	-16.93	-12.40	-5.75	-6.13	-14.96	-9.27	-1.75	-1.42	-3.49
180.0	-13.33	-20.94	-13.13	-8.41	-14.82	-19.15	-6.53	-3.30	-11.85	-11.24	-0.27	-2.37	-9.17
195.0	-8.01	-16.05	-12.16	-13.88	-8.68	-13.92	-10.06	-3.27	-5.43	-8.63	-0.73	-3.08	-6.38
210.0	-4.91	-12.99	-13.01	-20.01	-7.73	-7.95	-16.53	-5.49	-3.49	-5.22	-2.36	-2.22	-1.19
225.0	-2.75	-10.81	-14.14	-12.97	-11.42	-6.80	-11.38	-10.78	-3.85	-2.42	-4.79	-0.46	2.03
240.0	-1.20	-9.15	-13.44	-8.55	-13.51	-9.60	-7.39	-16.98	-5.20	-0.90	-7.56	0.92	3.80
255.0	0.02	-8.37	-12.39	-6.52	-9.06	-15.97	-6.28	-13.18	-6.87	0.07	-10.73	1.64	4.79
270.0	0.59	-8.39	-12.13	-6.40	-7.31	-20.02	-6.83	-10.76	-7.99	0.42	-12.10	1.74	5.21
285.0	0.49	-8.92	-13.46	-7.37	-7.42	-18.17	-7.95	-9.74	-7.67	0.34	-11.84	1.32	5.34
300.0	-0.11	-9.02	-14.78	-9.23	-9.43	-16.86	-8.95	-9.52	-6.52	-0.22	-10.64	0.64	4.88
315.0	-1.47	-9.86	-15.85	-12.01	-14.57	-14.76	-9.16	-8.93	-5.17	-1.43	-8.96	-0.50	3.72
330.0	-3.54	-11.94	-15.48	-14.14	-18.44	-15.64	-8.59	-7.53	-4.20	-3.38	-6.81	-1.80	1.54
345.0	-7.25	-15.35	-15.70	-14.33	-14.90	-15.45	-9.46	-5.54	-4.10	-6.20	-3.84	-3.48	-2.84
360.0	-12.42	-13.92	-15.74	-12.82	-16.43	-12.75	-10.54	-3.99	-5.72	-8.44	-1.67	-4.97	-10.09

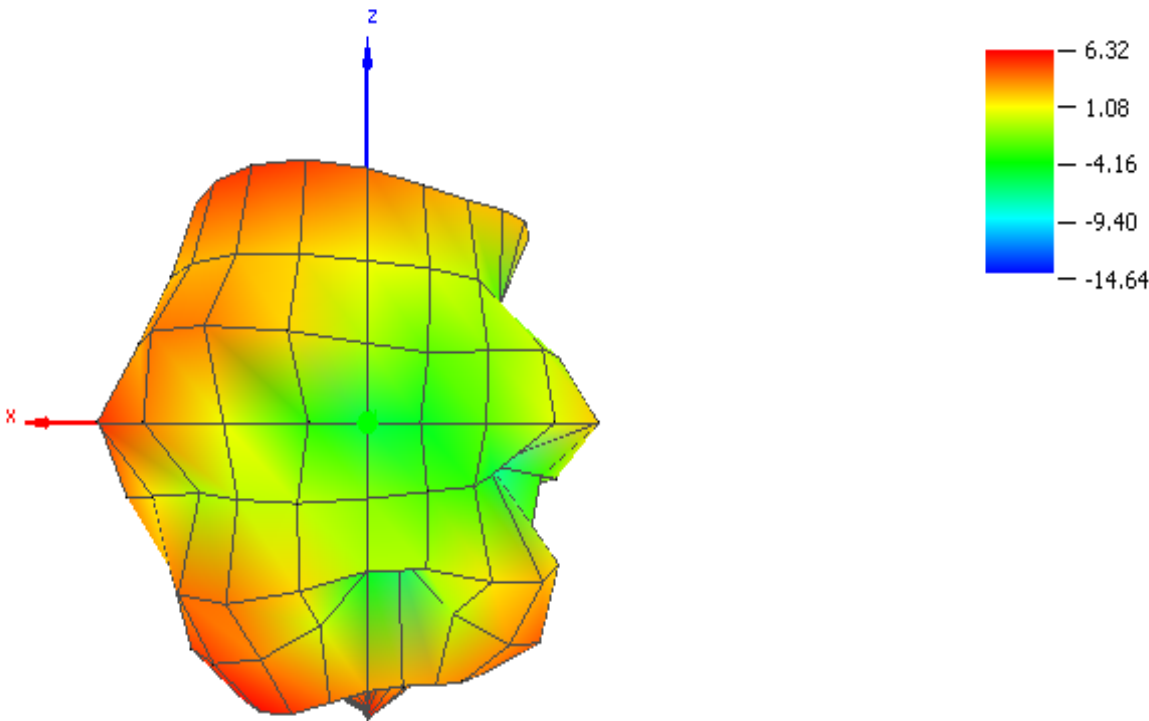
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	0.28	-1.83	-6.64	2.30	1.05	-1.32	2.23	2.36	-1.42	1.61	1.05	2.98	5.83
15.0	-0.42	-1.09	-3.24	3.16	2.00	0.64	4.66	2.32	0.33	3.04	3.18	2.67	5.36
30.0	-1.95	-1.16	-1.38	3.49	2.04	2.64	4.79	0.72	2.31	4.49	4.11	2.54	4.30
45.0	-4.21	-2.24	-1.12	3.14	1.88	3.61	3.25	-0.82	3.42	4.56	3.85	1.85	2.18
60.0	-7.18	-4.51	-2.10	2.02	1.00	3.21	0.65	-1.27	2.66	3.16	2.14	0.34	-1.04
75.0	-12.23	-8.86	-4.61	-0.46	-1.58	1.09	-3.04	-2.87	-0.69	-0.46	-2.03	-2.52	-7.03
90.0	-16.36	-13.61	-7.80	-5.62	-6.01	-2.26	-5.48	-6.06	-5.42	-7.18	-9.13	-7.79	-16.22
105.0	-10.58	-10.67	-7.07	-14.38	-8.18	-4.83	-4.64	-8.39	-3.55	-7.42	-4.66	-17.54	-4.07
120.0	-6.62	-7.01	-4.66	-4.95	-5.38	-3.07	-1.76	-6.13	0.40	-0.08	0.41	-6.97	0.69
135.0	-3.58	-4.40	-3.20	-0.44	-4.12	-0.78	0.54	-5.19	2.12	3.17	2.68	-2.27	3.43
150.0	-1.73	-3.20	-2.73	1.27	-4.91	-1.01	1.73	-6.13	1.59	4.05	3.15	-0.14	4.95
165.0	-0.57	-3.25	-3.66	1.54	-6.27	-5.20	1.26	-4.21	-1.37	3.52	2.19	0.91	5.71
180.0	-0.30	-4.60	-5.91	0.68	-8.07	-16.53	-2.18	-3.05	-7.24	2.02	0.14	1.28	5.79
195.0	-0.64	-6.95	-8.28	-1.82	-15.75	-11.22	-18.05	-5.35	-15.62	-0.18	-3.15	1.24	5.24
210.0	-1.76	-9.77	-7.21	-5.12	-9.61	-9.69	-4.51	-9.91	-11.60	-1.86	-7.74	0.79	4.20
225.0	-3.81	-13.09	-5.75	-6.45	-3.38	-9.12	-2.03	-6.49	-12.80	-2.38	-11.39	-0.07	2.52
240.0	-6.56	-16.83	-6.00	-6.34	-1.85	-7.16	-3.78	-4.00	-19.31	-3.33	-10.42	-1.44	-0.07
255.0	1.60	-18.88	-8.19	-7.09	-3.48	-6.42	-8.59	-4.66	-12.27	-4.86	-9.55	-3.55	-4.40
270.0	-9.65	-14.27	-12.57	-8.28	-6.67	-6.97	-16.05	-7.59	-8.49	-6.72	-10.96	-5.84	-8.11
285.0	-5.50	-10.08	-18.48	-8.69	-10.27	-8.70	-10.98	-11.73	-6.51	-9.08	-13.52	-5.87	-4.11
300.0	-2.92	-7.74	-14.86	-8.39	-11.82	-9.19	-6.43	-15.32	-4.87	-11.51	-15.02	-3.65	-0.21
315.0	-0.96	-5.97	-13.38	-7.20	-11.03	-7.90	-4.54	-14.03	-3.31	-15.96	-12.36	-1.33	2.51
330.0	0.11	-4.54	-15.08	-4.91	-6.67	-5.72	-5.43	-5.37	-2.38	-15.37	-6.82	0.27	4.40
345.0	0.63	-2.87	-12.64	-1.31	-1.66	-3.53	-3.32	-0.30	-1.94	-5.41	-2.15	1.37	5.50
360.0	0.68	-1.76	-7.98	1.55	0.52	-1.75	0.85	1.92	-1.67	-0.32	0.18	2.15	5.85

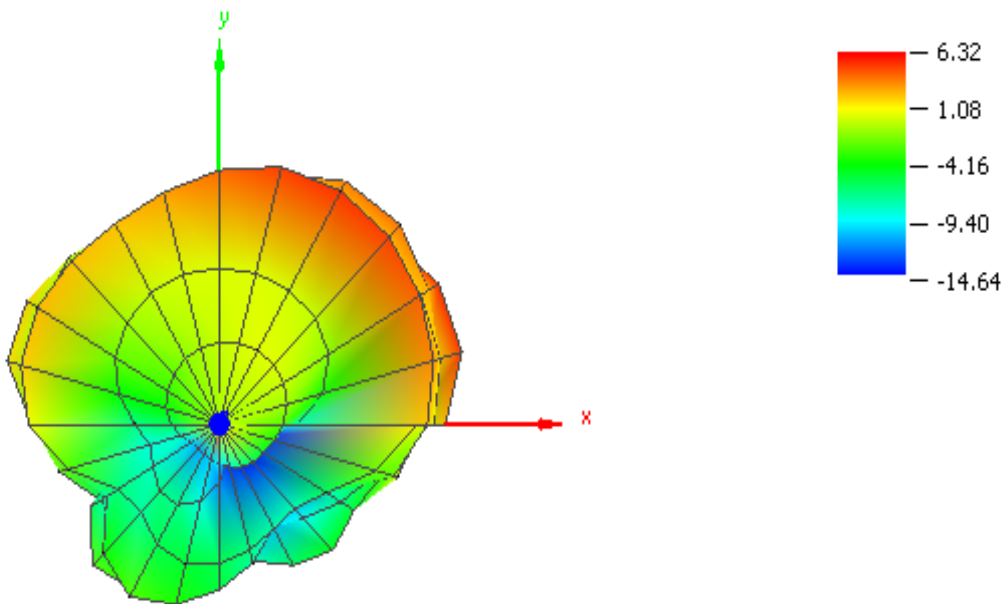
Theta = 90, Phi = 0



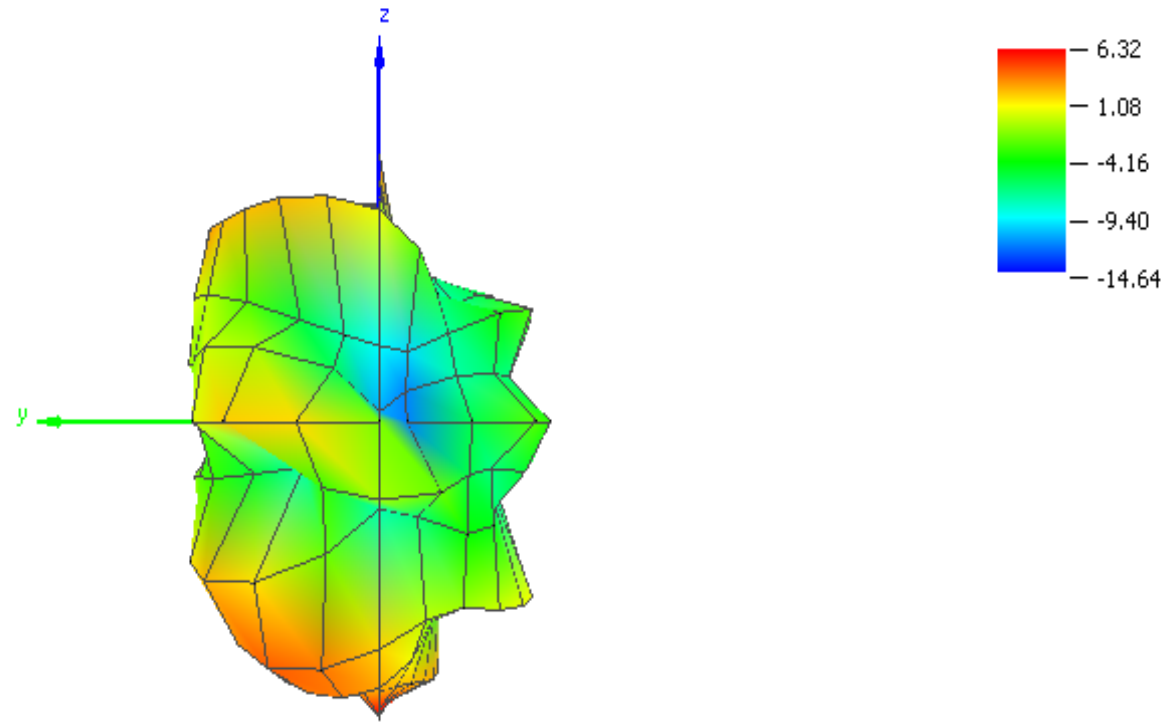
Theta = 90, Phi = 90



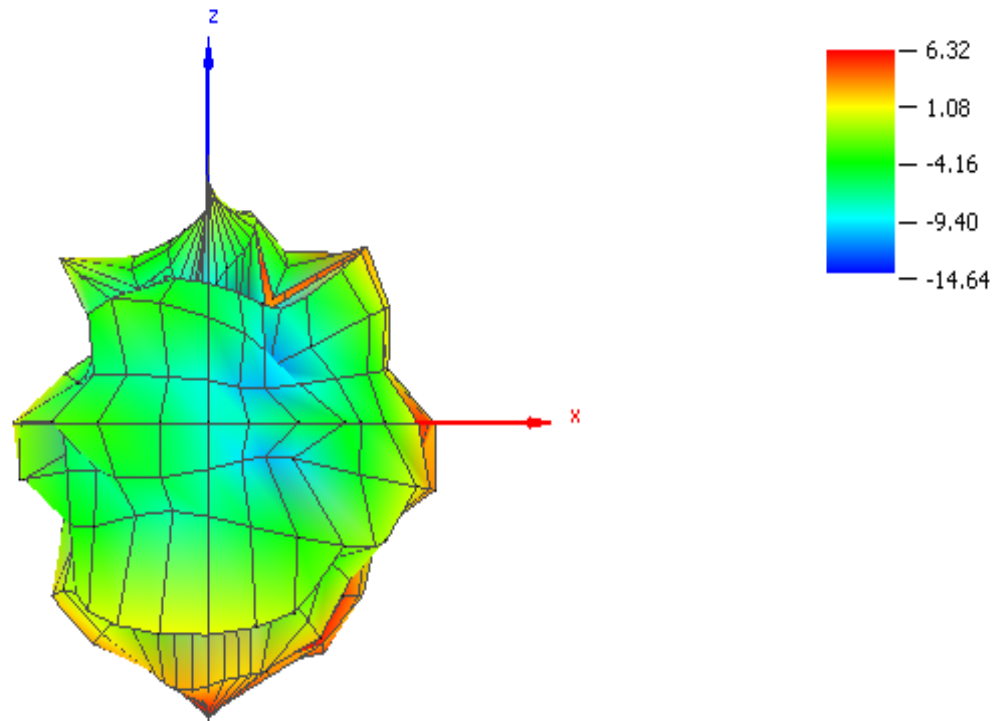
Theta = 0, Phi = 0



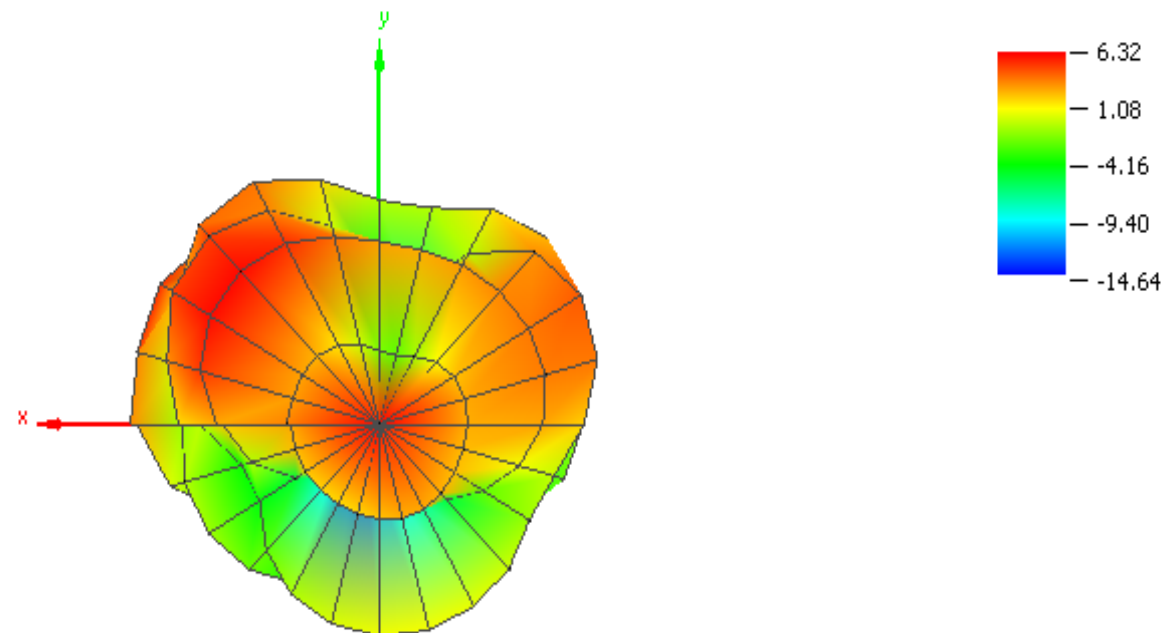
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2440.000 MHz

OTA Evaluation Results:

Total Radiated Power	-0.26 dBm
Peak EIRP	5.89 dBm
Directivity	6.15 dBi
Efficiency	-0.26 dB
Efficiency	94.17 %
Gain	5.89 dBi
NHPRP 45°	-2.07 dBm
NHPRP 45° / TRP	-1.81 dB
NHPRP 45° / TRP	65.90 %
NHPRP 30°	-3.93 dBm
NHPRP 30° / TRP	-3.67 dB
NHPRP 30° / TRP	42.95 %
NHPRP 22.5°	-5.07 dBm
NHPRP 22.5° / TRP	-4.81 dB
NHPRP 22.5° / TRP	33.05 %
UHRP	-3.65 dBm
UHRP / TRP	-3.39 dB
UHRP / TRP	45.81 %
LHRP	-2.92 dBm
LHRP / TRP	-2.66 dB
LHRP / TRP	54.19 %
Front/Back Ratio	16.57
PhiBW	118.1 deg
PhiBW Up	87.9 deg
PhiBW Down	30.2 deg
ThetaBW	32.0 deg
ThetaBW Up	11.1 deg
ThetaBW Down	20.8 deg
Boresight Phi	30 deg
Boresight Theta	150 deg
Maximum Power	5.89 dBm
Minimum Power	-12.15 dBm
Average Power	0.72 dBm
Max/Min Ratio	18.04 dB
Max/Avg Ratio	5.17 dB
Min/Avg Ratio	-12.87 dB
Best Single Value	5.34 dBm
Best Position	Phi = 270 deg; Theta = 180 deg; Pol = Hor

RP_2440.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	1.87	-0.38	-3.53	2.02	0.97	-0.31	2.31	3.39	-0.77	0.01	3.69	1.52	4.85
15.00	1.64	0.29	-1.82	3.07	2.36	0.16	4.32	3.19	-1.20	2.14	5.24	1.43	5.14
30.00	1.45	0.81	-0.58	3.89	2.92	0.81	4.42	0.91	0.57	4.36	5.89	1.85	5.43
45.00	1.17	1.08	0.33	4.55	3.00	1.31	2.95	-1.68	2.54	4.95	5.77	1.90	5.46
60.00	0.89	1.34	1.09	4.85	2.59	1.27	0.29	-0.93	2.73	4.09	5.07	1.10	5.19
75.00	0.69	1.32	1.54	4.60	1.94	0.34	-2.57	0.23	1.10	1.64	4.13	-0.50	4.91
90.00	0.63	1.05	1.40	4.20	1.42	-0.71	-4.32	0.39	-1.30	-2.72	3.49	-2.48	5.10
105.00	0.73	0.56	1.20	3.78	1.35	-0.77	-3.11	-0.19	-0.84	-4.34	3.19	-3.60	5.48
120.00	0.93	-0.05	0.91	3.36	1.46	-0.17	-0.60	-1.10	1.43	-0.27	2.84	-2.66	5.56
135.00	1.36	-0.32	0.31	2.71	1.35	0.11	1.59	-3.11	2.36	2.50	2.56	-1.01	5.35
150.00	1.75	-0.29	-0.49	1.89	0.57	-0.56	2.92	-5.14	1.23	3.40	2.66	0.17	4.97
165.00	1.96	-0.43	-1.69	1.28	-0.25	-3.11	2.85	-2.18	-1.40	2.43	2.58	0.79	4.37
180.00	1.92	-1.01	-3.62	0.53	-1.67	-6.08	0.82	0.18	-3.24	0.09	1.62	0.86	3.68
195.00	1.76	-2.19	-6.69	-1.14	-4.74	-5.94	-5.09	-0.92	-3.24	-1.49	-0.61	0.63	3.25
210.00	1.24	-3.79	-10.68	-4.34	-7.74	-7.00	-12.15	-4.04	-3.16	-1.52	-3.21	0.19	3.32
225.00	0.68	-5.55	-12.11	-7.58	-7.68	-8.56	-5.42	-4.91	-4.59	-1.16	-4.55	0.08	3.90
240.00	0.43	-7.10	-10.81	-7.10	-6.78	-8.49	-4.83	-3.81	-6.25	-1.33	-4.94	0.40	4.76
255.00	0.75	-7.29	-9.93	-5.78	-5.81	-8.02	-5.00	-3.65	-6.18	-1.68	-5.44	0.97	5.28
270.00	1.36	-6.65	-9.91	-5.34	-6.00	-7.85	-3.79	-4.61	-5.38	-1.84	-6.44	1.26	5.48
285.00	1.87	-5.70	-10.12	-5.82	-6.93	-8.22	-2.42	-6.59	-4.19	-1.68	-8.54	1.52	5.49
300.00	2.04	-4.63	-9.72	-6.62	-9.39	-9.54	-1.50	-8.67	-2.75	-1.79	-9.95	1.87	5.50
315.00	2.21	-3.53	-9.39	-6.16	-10.67	-8.32	-1.46	-6.97	-0.93	-2.08	-7.61	1.99	5.50
330.00	2.21	-2.61	-8.21	-3.63	-6.05	-4.94	-2.16	-3.14	0.47	-2.61	-3.53	1.87	5.43
345.00	2.15	-1.63	-6.13	-0.57	-1.94	-1.97	-1.32	0.63	0.64	-3.23	0.53	1.54	5.09
360.00	2.06	-0.74	-4.25	1.52	0.23	-0.48	1.27	2.96	-0.43	-1.11	2.92	1.45	4.87

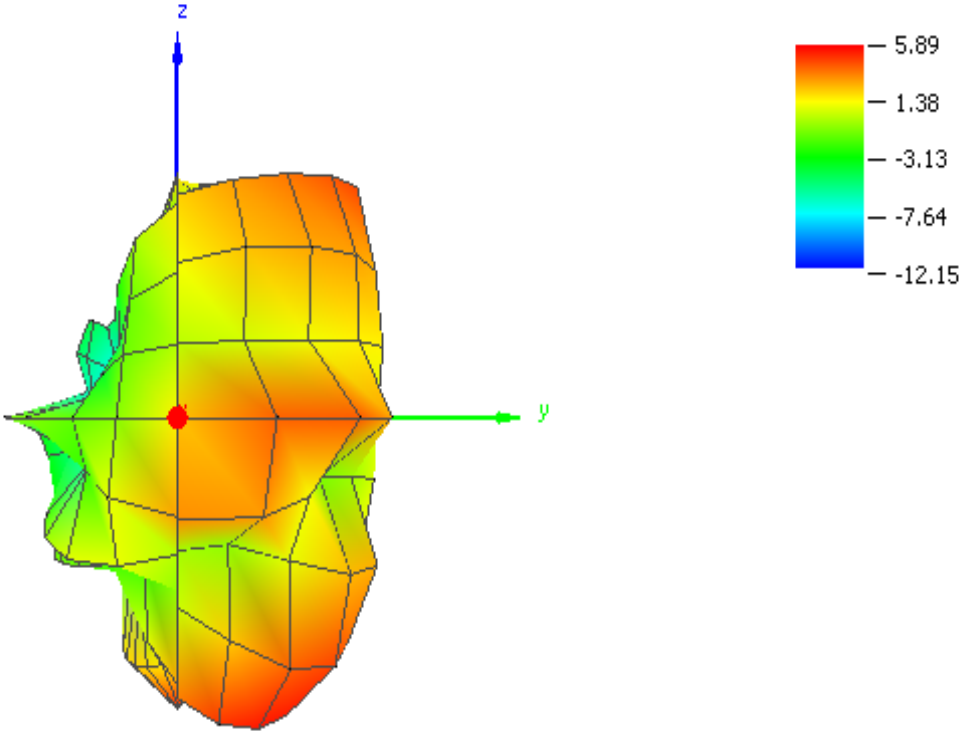
RP_2440.000_hor

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-10.51	-12.71	-17.69	-9.86	-12.15	-8.59	-6.26	-1.18	-4.71	-7.89	-0.69	-6.65	-7.30
15.0	-7.47	-7.71	-14.02	-5.63	-8.65	-10.78	-5.01	-1.44	-9.13	-8.96	0.01	-8.10	-4.81
30.0	-4.11	-3.94	-8.38	-1.92	-5.94	-11.11	-4.06	-3.53	-13.36	-10.25	0.18	-6.55	-0.16
45.0	-1.96	-1.39	-3.97	0.77	-3.52	-7.79	-4.61	-5.32	-7.91	-11.07	0.50	-4.76	2.57
60.0	-0.56	0.23	-0.95	2.51	-1.44	-4.44	-5.80	-2.90	-4.02	-8.17	1.49	-4.00	3.95
75.0	0.20	0.87	0.71	3.45	0.17	-2.94	-6.61	-0.80	-2.46	-5.64	2.56	-3.72	4.60
90.0	0.43	0.95	1.10	3.83	0.73	-2.81	-6.93	-0.04	-2.20	-5.41	3.14	-3.82	5.07
105.0	0.04	0.36	0.85	3.61	0.36	-3.16	-7.79	-0.69	-2.88	-6.75	2.80	-3.72	5.06
120.0	-1.15	-1.07	-0.35	2.81	-1.10	-4.41	-10.00	-2.96	-4.46	-10.29	0.94	-3.53	4.28
135.0	-3.09	-3.25	-2.74	1.06	-3.53	-6.96	-9.61	-8.67	-7.28	-14.83	-2.80	-2.98	2.59
150.0	-5.92	-6.15	-6.06	-1.65	-6.55	-10.55	-6.47	-18.46	-12.10	-10.87	-5.08	-2.33	-0.16
165.0	-10.85	-9.73	-9.44	-4.40	-8.01	-16.96	-5.25	-6.92	-13.66	-10.46	-2.64	-1.69	-4.76
180.0	-14.70	-13.28	-11.19	-6.08	-9.17	-14.53	-6.97	-3.80	-7.25	-12.68	-1.29	-1.50	-10.35
195.0	-8.35	-13.98	-12.59	-8.46	-8.65	-10.15	-12.51	-4.52	-4.05	-9.15	-2.00	-1.85	-6.26
210.0	-4.26	-12.17	-15.61	-12.58	-8.07	-10.33	-13.39	-7.98	-3.40	-6.92	-3.55	-2.56	-1.24
225.0	-2.10	-11.18	-18.36	-13.94	-11.10	-10.30	-8.26	-13.87	-4.90	-6.65	-5.44	-2.50	1.92
240.0	-0.71	-10.36	-17.65	-10.43	-16.69	-12.21	-6.29	-13.66	-7.24	-5.81	-7.24	-1.42	3.98
255.0	0.31	-9.74	-17.20	-8.72	-11.07	-19.44	-5.26	-10.05	-8.32	-4.26	-7.87	0.02	4.99
270.0	0.85	-9.55	-17.60	-8.50	-8.82	-16.60	-5.17	-9.14	-7.80	-2.99	-8.19	0.79	5.34
285.0	0.83	-9.55	-18.34	-9.47	-9.29	-14.46	-5.31	-9.43	-6.52	-2.25	-9.73	1.02	5.19
300.0	0.11	-9.80	-19.65	-11.54	-12.70	-17.11	-5.38	-10.04	-5.23	-2.10	-11.02	0.88	4.65
315.0	-1.41	-10.60	-20.00	-14.09	-19.03	-16.50	-5.23	-9.52	-3.55	-2.22	-9.35	0.24	3.65
330.0	-3.96	-13.03	-21.09	-15.25	-18.88	-11.39	-5.43	-6.85	-2.12	-2.78	-6.42	-0.91	1.86
345.0	-7.91	-16.91	-21.01	-13.09	-17.34	-8.44	-6.67	-3.42	-1.96	-4.73	-3.33	-3.07	-1.51
360.0	-10.92	-14.45	-18.88	-11.21	-14.30	-7.98	-7.13	-1.59	-3.80	-7.03	-1.20	-5.17	-6.37

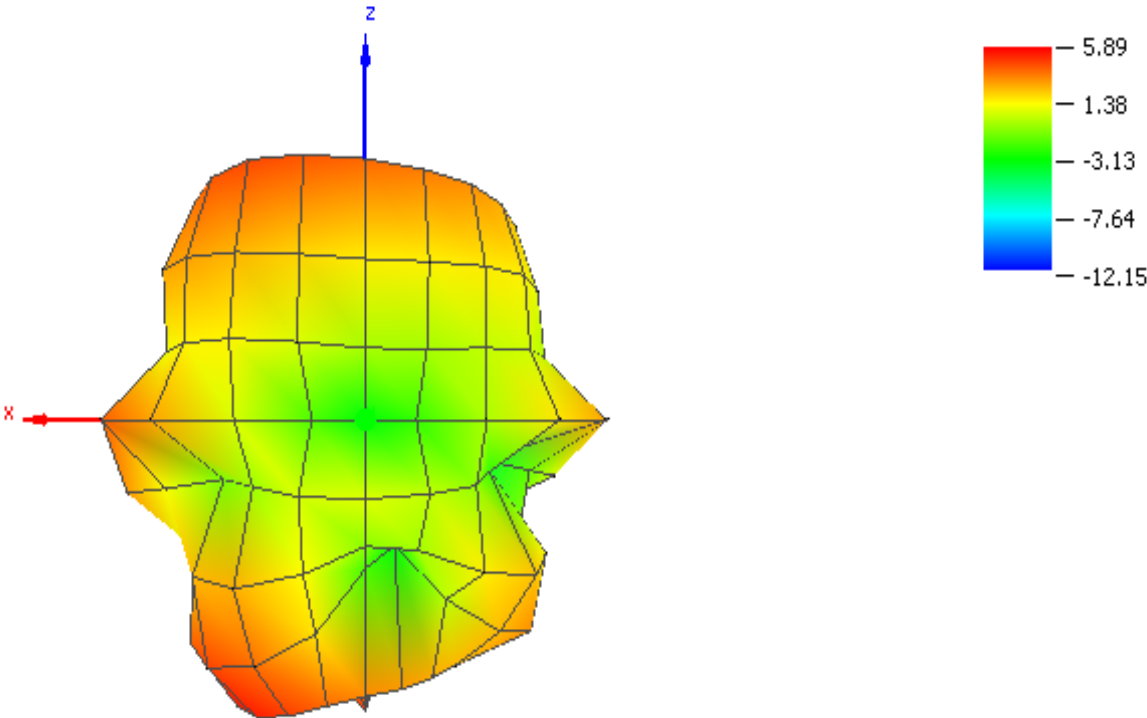
RP_2440.000_ver

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	1.61	-0.65	-3.70	1.73	0.76	-1.01	1.66	1.53	-3.02	-0.76	1.72	0.81	4.57
15.0	1.07	-0.46	-2.09	2.44	2.00	-0.20	3.78	1.35	-1.96	1.79	3.68	0.91	4.68
30.0	0.03	-0.97	-1.37	2.57	2.31	0.52	3.75	-1.02	0.39	4.20	4.53	1.17	4.03
45.0	-1.72	-2.54	-1.69	2.20	1.90	0.75	2.12	-4.14	2.13	4.84	4.24	0.84	2.32
60.0	-4.57	-5.13	-3.18	1.05	0.41	-0.09	-0.93	-5.31	1.70	3.82	2.56	-0.50	-0.88
75.0	-9.10	-8.67	-6.05	-1.72	-2.80	-2.42	-4.75	-6.54	-1.42	0.74	-1.02	-3.31	-6.69
90.0	-12.71	-15.19	-10.46	-6.74	-6.89	-4.87	-7.77	-9.89	-8.57	-6.08	-7.63	-8.24	-17.57
105.0	-7.59	-12.97	-9.95	-10.52	-5.55	-4.52	-4.93	-9.80	-5.10	-8.05	-7.55	-19.19	-4.91
120.0	-3.28	-6.81	-5.08	-5.84	-2.05	-2.23	-1.13	-5.67	0.13	-0.72	-1.67	-10.07	-0.36
135.0	-0.56	-3.41	-2.65	-2.29	-0.35	-0.84	1.25	-4.53	1.86	2.42	1.06	-5.40	2.08
150.0	0.94	-1.60	-1.90	-0.65	-0.37	-1.02	2.39	-5.34	1.03	3.23	1.86	-3.41	3.38
165.0	1.72	-0.98	-2.49	-0.09	-1.04	-3.30	2.11	-3.95	-1.67	2.20	1.02	-2.82	3.81
180.0	1.82	-1.28	-4.45	-0.55	-2.52	-6.74	0.03	-2.03	-5.43	-0.15	-1.49	-2.92	3.51
195.0	1.31	-2.49	-7.98	-2.03	-7.01	-8.01	-5.96	-3.40	-10.95	-2.31	-6.24	-2.97	2.73
210.0	-0.20	-4.47	-12.36	-5.04	-19.07	-9.72	-18.17	-6.29	-15.86	-2.99	-14.56	-3.10	1.45
225.0	-2.57	-6.94	-13.28	-8.72	-10.32	-13.37	-8.61	-5.50	-16.19	-2.60	-11.87	-3.42	-0.45
240.0	-5.93	-9.87	-11.81	-9.82	-7.24	-10.89	-10.27	-4.28	-13.12	-3.24	-8.79	-4.25	-3.11
255.0	-9.43	-10.95	-10.84	-8.86	-7.34	-8.35	-17.32	-4.78	-10.29	-5.16	-9.11	-6.10	-6.59
270.0	-8.24	-9.78	-10.72	-8.21	-9.20	-8.47	-9.44	-6.50	-9.07	-8.18	-11.22	-8.67	-9.48
285.0	-4.88	-8.01	-10.83	-8.28	-10.71	-9.40	-5.55	-9.77	-8.00	-10.77	-14.73	-8.06	-6.24
300.0	-2.41	-6.21	-10.18	-8.31	-12.13	-10.37	-3.78	-14.35	-6.37	-13.47	-16.56	-5.03	-2.01
315.0	-0.27	-4.48	-9.79	-6.93	-11.35	-9.03	-3.83	-10.49	-4.36	-16.99	-12.40	-2.80	0.89
330.0	1.01	-3.02	-8.44	-3.94	-6.28	-6.06	-4.93	-5.56	-3.00	-16.66	-6.67	-1.39	2.92
345.0	1.69	-1.76	-6.28	-0.82	-2.07	-3.08	-2.82	-1.55	-2.83	-8.58	-1.77	-0.31	4.02
360.0	1.83	-0.92	-4.41	1.28	0.08	-1.33	0.59	1.08	-3.11	-2.39	0.78	0.39	4.53

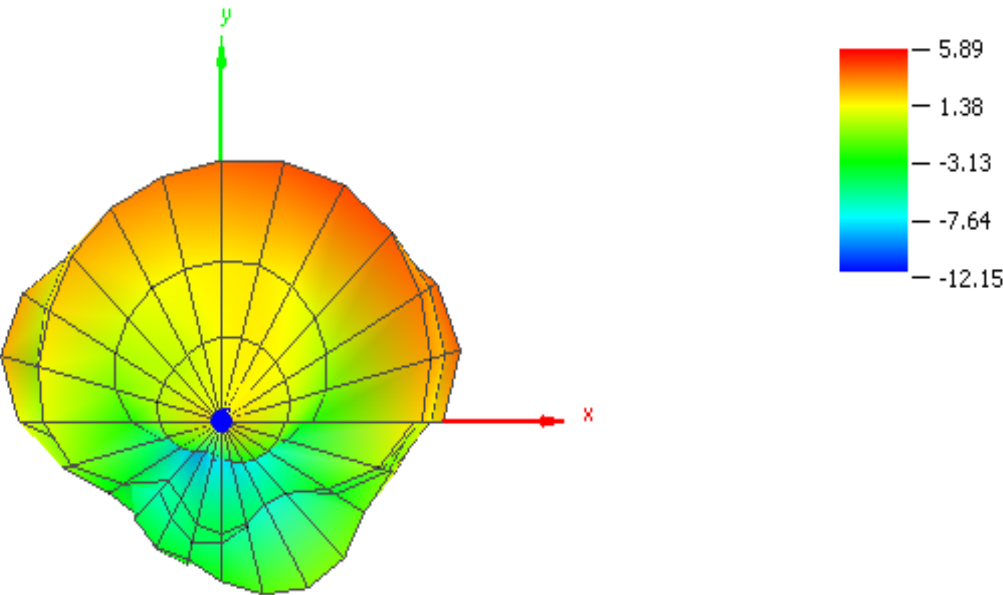
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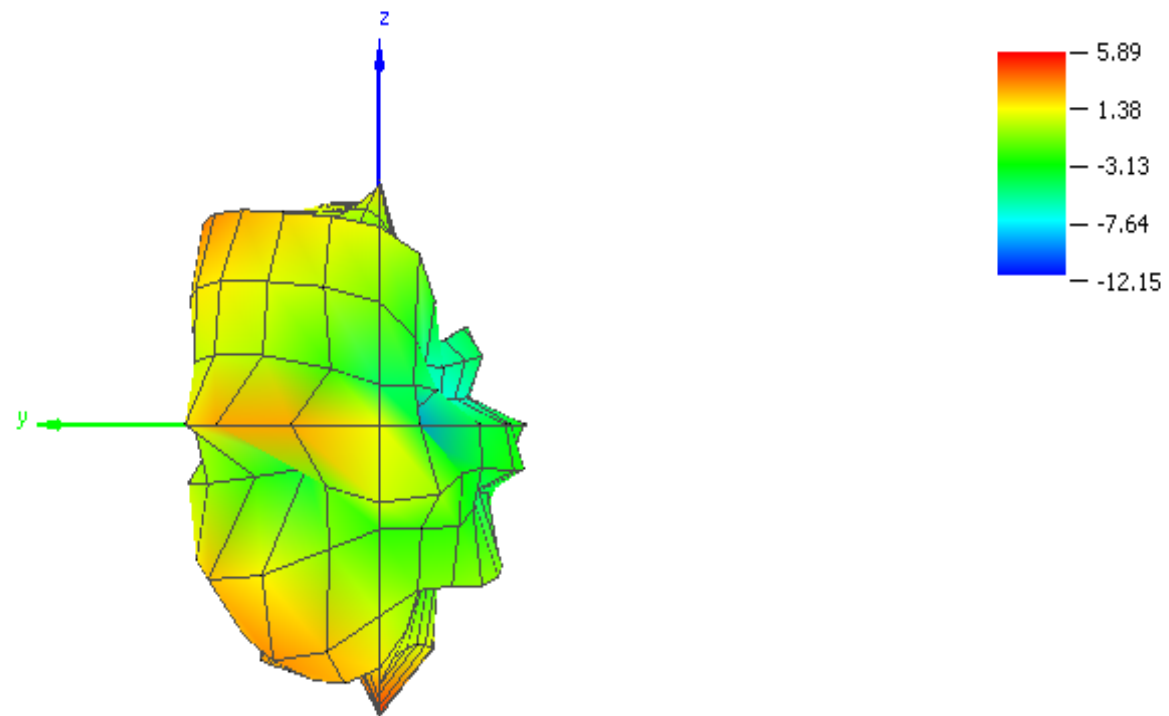
Theta = 90, Phi = 90



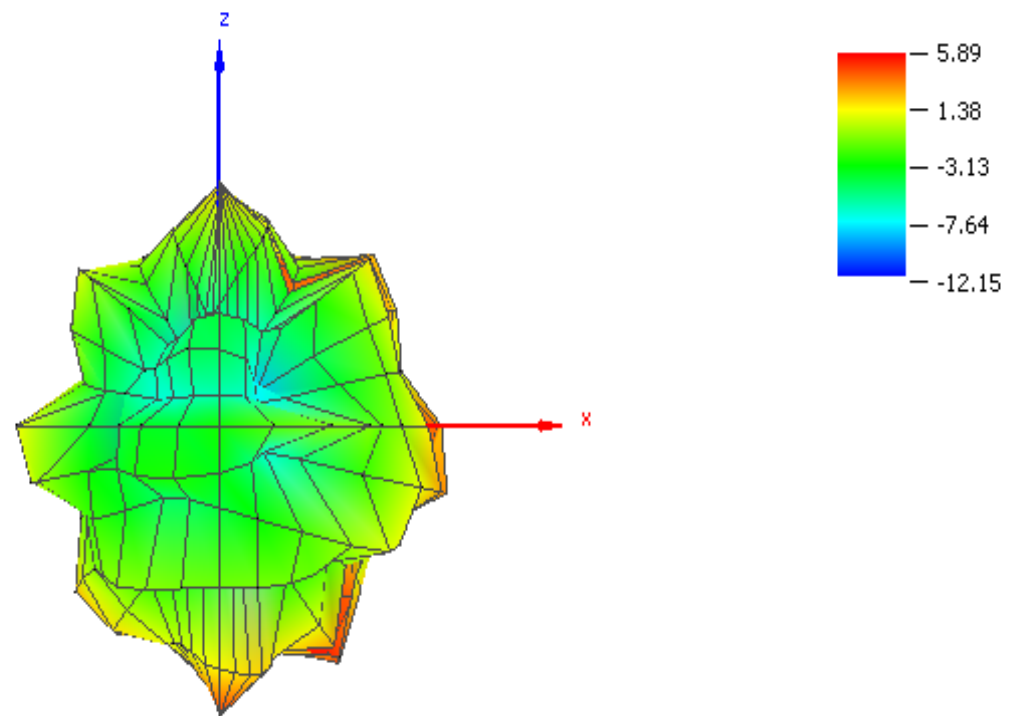
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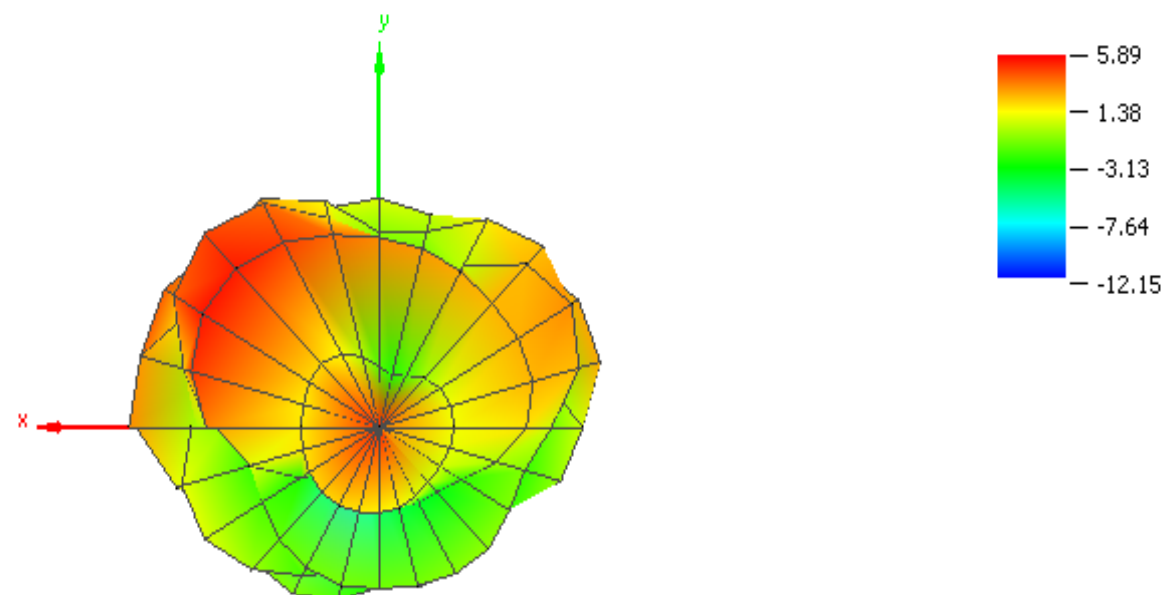
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2480.000 MHz

OTA Evaluation Results:

Total Radiated Power	-0.92 dBm
Peak EIRP	5.80 dBm
Directivity	6.72 dBi
Efficiency	-0.92 dB
Efficiency	80.83 %
Gain	5.80 dBi
NHPRP 45°	-2.77 dBm
NHPRP 45° / TRP	-1.85 dB
NHPRP 45° / TRP	65.32 %
NHPRP 30°	-4.57 dBm
NHPRP 30° / TRP	-3.65 dB
NHPRP 30° / TRP	43.18 %
NHPRP 22.5°	-5.75 dBm
NHPRP 22.5° / TRP	-4.83 dB
NHPRP 22.5° / TRP	32.91 %
UHRP	-4.44 dBm
UHRP / TRP	-3.51 dB
UHRP / TRP	44.54 %
LHRP	-3.48 dBm
LHRP / TRP	-2.56 dB
LHRP / TRP	55.46 %
Front/Back Ratio	6.14
PhiBW	360.0 deg
PhiBW Up	360.0 deg
PhiBW Down	360.0 deg
ThetaBW	15.7 deg
ThetaBW Up	11.2 deg
ThetaBW Down	4.5 deg
Boresight Phi	105 deg
Boresight Theta	180 deg
Maximum Power	5.80 dBm
Minimum Power	-11.65 dBm
Average Power	0.20 dBm
Max/Min Ratio	17.45 dB
Max/Avg Ratio	5.60 dB
Min/Avg Ratio	-11.85 dB
Best Single Value	5.67 dBm
Best Position	Phi = 90 deg; Theta = 180 deg; Pol = Hor

RP_2480.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	-0.18	-1.20	-4.96	-1.63	0.58	-1.69	0.25	1.74	-0.76	0.32	2.11	1.76	5.60
15.00	-0.42	-0.61	-3.20	0.15	2.18	-1.04	3.46	2.11	-0.45	2.63	3.67	1.93	5.51
30.00	-0.81	0.27	-1.76	1.76	2.41	0.34	4.25	1.25	1.40	4.60	4.43	1.66	5.42
45.00	-1.26	0.96	-0.71	2.71	2.14	1.04	3.33	0.10	3.15	4.96	4.42	0.79	5.26
60.00	-1.65	1.68	0.14	3.04	1.52	0.77	1.02	0.99	3.38	3.81	4.01	-0.83	5.22
75.00	-1.95	1.92	0.66	2.92	0.80	-0.86	-1.82	1.80	1.60	0.99	3.63	-2.34	5.36
90.00	-2.24	1.73	1.28	2.25	-0.04	-2.13	-5.49	1.18	-2.16	-4.97	3.16	-3.78	5.73
105.00	-2.19	1.06	1.64	1.53	-0.06	-1.17	-6.93	-0.28	-3.76	-6.83	2.69	-4.22	5.80
120.00	-1.60	0.65	1.27	1.31	0.39	0.37	-4.30	-2.27	-1.49	-0.83	2.31	-3.64	5.43
135.00	-1.06	0.41	0.21	1.08	0.76	0.69	-1.22	-5.85	-0.53	2.05	2.26	-2.42	5.09
150.00	-0.52	0.16	-1.16	0.72	0.68	-0.77	0.59	-7.78	-2.36	2.84	2.58	-1.04	4.83
165.00	-0.43	-0.29	-2.76	0.07	0.22	-3.19	0.56	-4.21	-6.51	1.61	2.44	-0.10	4.73
180.00	-0.68	-0.92	-4.70	-0.41	-0.71	-5.53	-1.40	-2.51	-5.47	-1.65	1.37	0.57	4.77
195.00	-1.14	-1.97	-6.54	-0.83	-3.16	-5.71	-3.73	-2.79	-2.95	-3.88	-0.42	0.77	4.81
210.00	-1.59	-3.31	-8.35	-1.34	-6.02	-5.93	-4.42	-2.86	-2.77	-2.48	-2.09	0.79	4.84
225.00	-1.59	-4.68	-9.38	-2.08	-5.64	-8.15	-4.53	-1.43	-4.40	-1.22	-3.07	0.80	4.84
240.00	-1.62	-6.07	-9.83	-3.28	-5.38	-7.57	-4.49	-1.24	-6.85	-1.29	-3.53	1.05	5.03
255.00	-1.61	-6.50	-9.27	-4.28	-5.17	-6.21	-4.41	-3.16	-8.42	-1.94	-4.11	1.46	5.29
270.00	-1.14	-6.41	-8.75	-5.32	-5.22	-5.84	-4.16	-6.38	-8.95	-2.17	-4.75	1.85	5.54
285.00	-0.34	-5.87	-8.96	-5.94	-6.24	-7.53	-3.72	-8.24	-8.56	-1.24	-5.23	1.85	5.62
300.00	0.40	-4.82	-9.63	-7.07	-8.36	-9.40	-4.00	-6.97	-6.97	-0.42	-6.05	1.44	5.67
315.00	0.66	-3.48	-10.00	-8.55	-11.65	-8.68	-4.69	-5.83	-4.04	-0.69	-6.49	1.01	5.71
330.00	0.55	-2.66	-9.09	-7.61	-10.17	-5.07	-6.27	-4.46	-1.56	-2.31	-4.46	1.00	5.77
345.00	0.31	-1.90	-7.46	-5.07	-4.15	-2.92	-5.69	-1.30	-0.57	-3.58	-1.14	1.20	5.73
360.00	0.23	-1.31	-5.79	-2.25	-0.25	-1.64	-0.98	1.31	-0.87	-0.74	1.00	1.74	5.58

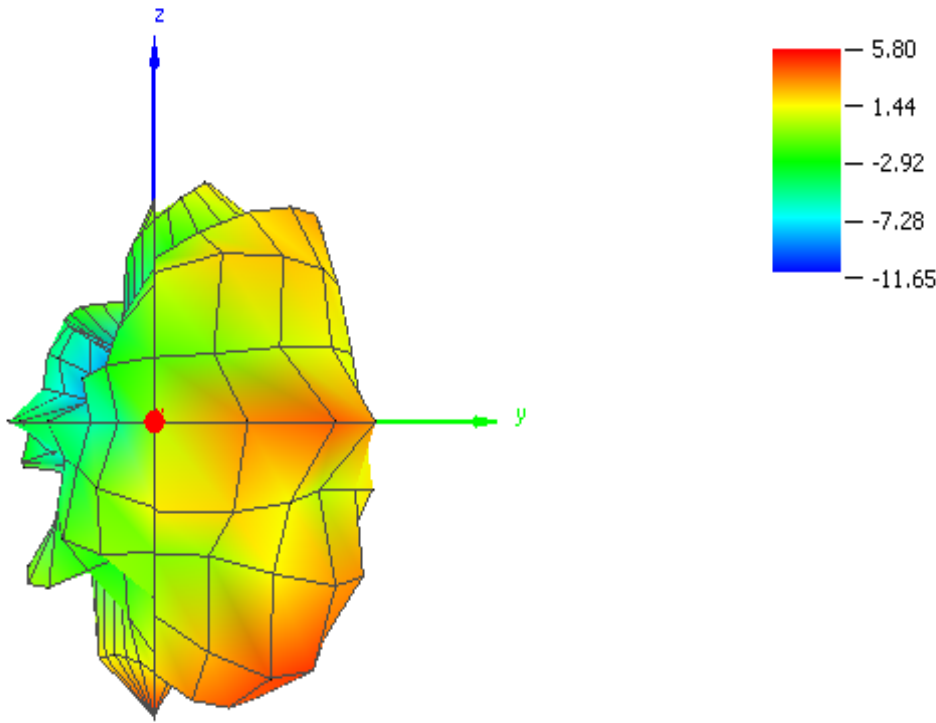
RP_2480.000_hor

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-15.77	-15.30	-17.08	-13.19	-10.67	-11.15	-9.75	-3.27	-3.77	-7.76	-3.04	-10.95	-6.88
15.0	-12.83	-9.35	-13.90	-9.66	-8.72	-12.77	-7.87	-3.90	-6.65	-8.32	-2.17	-8.71	-3.51
30.0	-8.62	-4.87	-7.79	-5.72	-7.61	-12.47	-6.91	-6.82	-12.35	-9.01	-1.59	-6.85	0.46
45.0	-5.99	-2.28	-4.08	-2.71	-5.87	-9.40	-7.57	-8.15	-11.23	-11.96	-0.72	-6.81	2.61
60.0	-4.27	-0.23	-1.53	-0.31	-3.32	-6.64	-8.76	-3.58	-7.30	-14.96	0.91	-6.38	4.17
75.0	-3.26	0.91	-0.10	1.20	-1.59	-5.22	-9.69	-0.79	-5.83	-13.52	2.20	-5.38	5.11
90.0	-2.82	1.37	0.86	1.75	-0.76	-3.92	-10.47	0.06	-6.15	-12.49	2.59	-4.60	5.67
105.0	-2.96	0.71	0.94	1.38	-1.02	-3.50	-12.50	-0.69	-7.28	-13.80	1.75	-4.47	5.38
120.0	-3.68	-0.63	-0.31	0.27	-2.91	-4.12	-15.74	-3.66	-9.38	-18.97	-0.69	-5.13	4.10
135.0	-4.79	-2.71	-3.11	-1.40	-6.14	-7.10	-11.82	-11.73	-11.98	-16.35	-4.28	-5.28	2.23
150.0	-7.03	-5.71	-8.20	-3.71	-9.38	-15.06	-8.21	-11.93	-17.66	-11.92	-5.67	-4.73	-0.63
165.0	-10.54	-9.14	-15.93	-6.20	-9.45	-16.54	-6.97	-5.89	-14.18	-11.75	-3.52	-3.98	-4.54
180.0	-15.55	-11.27	-16.54	-8.14	-7.95	-12.75	-9.39	-4.55	-6.42	-11.26	-2.39	-3.06	-9.42
195.0	-12.80	-9.84	-15.18	-10.43	-8.63	-8.45	-16.83	-5.83	-3.61	-6.79	-2.63	-2.22	-5.95
210.0	-7.81	-8.32	-18.01	-16.67	-11.92	-7.52	-13.10	-10.23	-3.46	-4.28	-3.24	-1.47	-1.32
225.0	-4.61	-7.54	-21.25	-13.79	-16.55	-11.56	-7.70	-15.83	-5.30	-3.70	-3.78	-0.78	1.50
240.0	-2.67	-7.49	-15.96	-9.39	-17.47	-19.22	-5.70	-14.04	-9.05	-3.94	-4.14	0.07	3.62
255.0	-1.81	-7.74	-13.00	-8.05	-10.70	-17.03	-5.41	-11.68	-14.08	-3.80	-4.62	0.77	4.79
270.0	-1.52	-8.46	-11.55	-8.35	-8.17	-14.06	-5.48	-9.56	-16.65	-3.01	-4.94	1.40	5.30
285.0	-1.74	-9.67	-11.91	-9.44	-8.51	-14.27	-5.41	-8.62	-14.18	-1.81	-5.56	1.38	5.08
300.0	-2.38	-11.81	-12.92	-10.55	-10.14	-14.80	-5.88	-8.83	-9.92	-1.00	-6.88	0.51	4.26
315.0	-3.99	-14.06	-15.20	-13.54	-13.06	-13.32	-6.31	-9.14	-5.84	-1.18	-7.82	-1.30	2.88
330.0	-6.87	-16.56	-17.47	-17.10	-17.93	-9.65	-7.46	-7.26	-3.13	-2.48	-7.70	-4.02	0.58
345.0	-10.81	-18.97	-18.28	-15.85	-19.40	-8.92	-9.34	-4.68	-2.36	-5.04	-5.85	-7.80	-2.92
360.0	-15.41	-17.35	-17.68	-15.11	-12.02	-8.72	-9.86	-3.36	-3.25	-7.07	-3.59	-8.84	-7.15

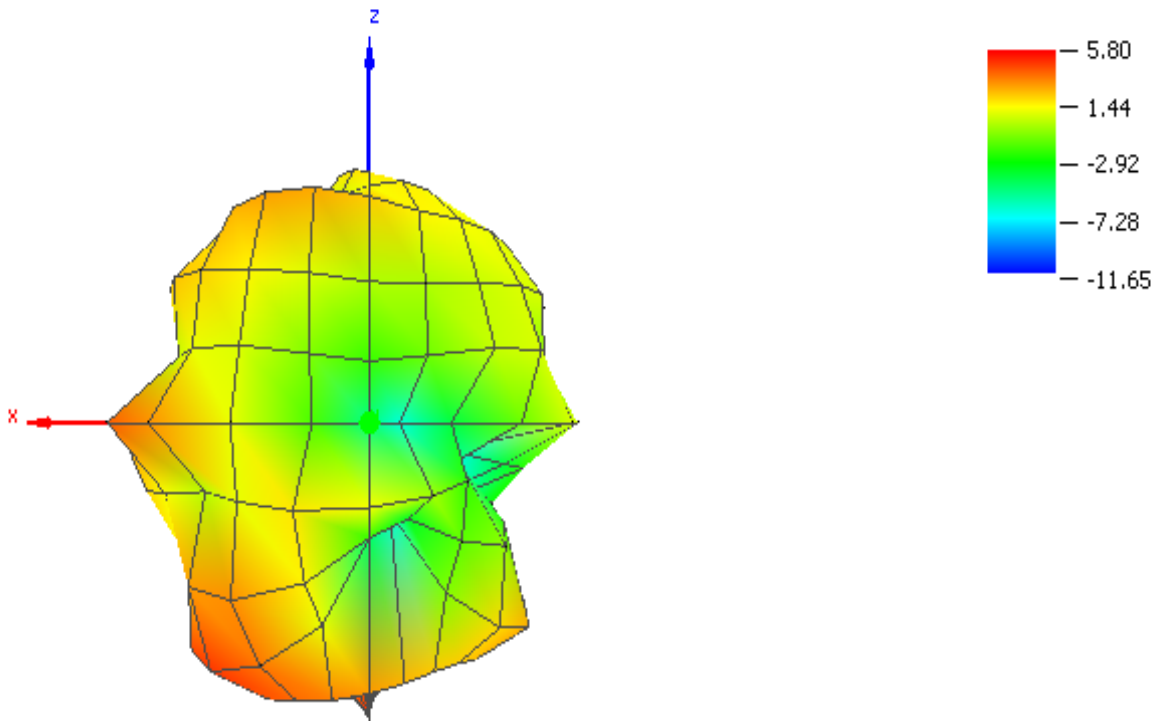
RP_2480.000_ver

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-0.30	-1.37	-5.24	-1.95	0.24	-2.21	-0.20	0.10	-3.76	-0.41	0.53	1.52	5.35
15.0	-0.68	-1.23	-3.59	-0.32	1.82	-1.34	3.13	0.86	-1.64	2.27	2.35	1.54	4.92
30.0	-1.60	-1.31	-3.01	0.90	1.96	0.11	3.90	0.51	1.21	4.40	3.18	1.00	3.76
45.0	-3.03	-1.84	-3.39	1.23	1.39	0.62	2.96	-0.60	2.99	4.87	2.84	-0.04	1.86
60.0	-5.09	-2.81	-4.84	0.35	-0.20	-0.10	0.54	-0.87	2.99	3.75	1.09	-2.25	-1.48
75.0	-7.80	-4.95	-7.25	-1.94	-2.93	-2.84	-2.59	-1.68	0.73	0.83	-1.92	-5.32	-7.24
90.0	-11.31	-9.34	-9.05	-7.45	-8.17	-6.83	-7.15	-5.24	-4.37	-5.82	-5.89	-11.39	-12.96
105.0	-10.08	-10.00	-6.69	-13.17	-7.09	-4.98	-8.34	-10.67	-6.31	-7.80	-4.38	-16.78	-4.58
120.0	-5.79	-5.27	-3.87	-5.43	-2.34	-1.54	-4.63	-7.91	-2.26	-0.89	-0.71	-9.01	-0.35
135.0	-3.45	-2.51	-2.51	-2.54	-0.23	-0.10	-1.61	-7.14	-0.85	1.99	1.17	-5.58	1.93
150.0	-1.62	-1.15	-2.11	-1.23	0.23	-0.94	-0.02	-9.89	-2.49	2.69	1.87	-3.47	3.37
165.0	-0.87	-0.89	-2.97	-1.10	-0.28	-3.39	-0.29	-9.15	-7.32	1.40	1.16	-2.39	4.18
180.0	-0.82	-1.33	-5.00	-1.21	-1.62	-6.44	-2.15	-6.76	-12.51	-2.16	-1.01	-1.90	4.60
195.0	-1.45	-2.74	-7.18	-1.33	-4.61	-9.02	-3.94	-5.77	-11.47	-6.99	-4.40	-2.26	4.43
210.0	-2.77	-4.96	-8.84	-1.47	-7.31	-11.05	-5.05	-3.74	-11.13	-7.17	-8.41	-3.13	3.64
225.0	-4.58	-7.85	-9.67	-2.38	-6.01	-10.79	-7.39	-1.59	-11.67	-4.83	-11.33	-4.37	2.13
240.0	-8.29	-11.59	-11.04	-4.51	-5.66	-7.88	-10.63	-1.48	-10.85	-4.70	-12.36	-5.90	-0.52
255.0	-14.91	-12.56	-11.67	-6.65	-6.59	-6.59	-11.29	-3.82	-9.80	-6.51	-13.63	-6.85	-4.34
270.0	-11.90	-10.67	-11.99	-8.32	-8.30	-6.55	-9.97	-9.24	-9.76	-9.74	-18.44	-8.17	-7.13
285.0	-5.93	-8.21	-12.02	-8.50	-10.14	-8.56	-8.64	-19.01	-9.95	-10.31	-16.59	-8.06	-3.67
300.0	-2.85	-5.79	-12.37	-9.66	-13.09	-10.88	-8.53	-11.56	-10.05	-9.42	-13.62	-5.71	0.09
315.0	-1.17	-3.87	-11.56	-10.20	-17.21	-10.52	-9.74	-8.57	-8.72	-10.45	-12.26	-2.84	2.51
330.0	-0.32	-2.84	-9.77	-8.13	-10.96	-6.92	-12.47	-7.68	-6.74	-16.71	-7.25	-0.64	4.20
345.0	-0.04	-1.98	-7.83	-5.45	-4.29	-4.18	-8.14	-3.96	-5.29	-9.03	-2.93	0.61	5.10
360.0	0.11	-1.42	-6.08	-2.48	-0.55	-2.58	-1.58	-0.50	-4.61	-1.90	-0.85	1.34	5.34

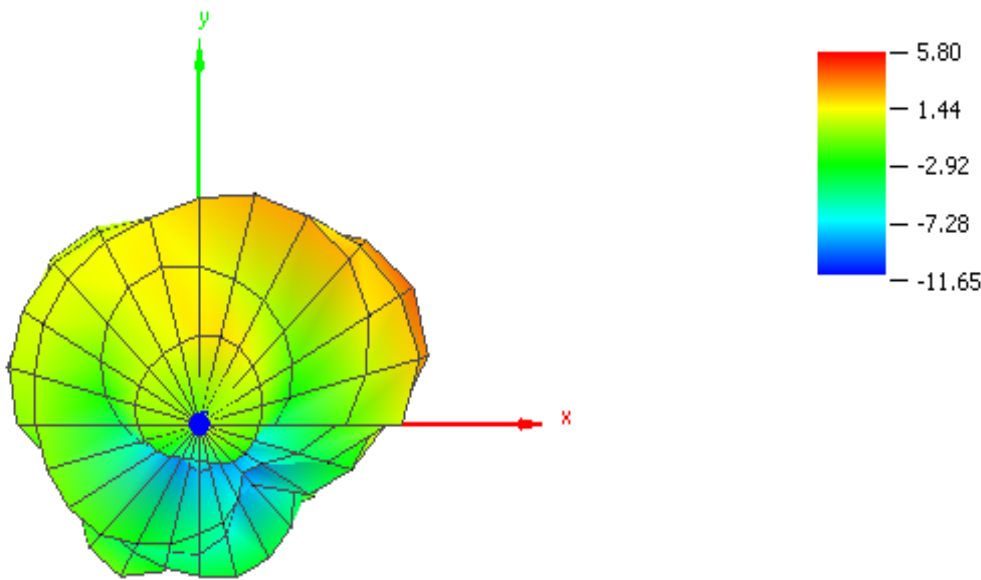
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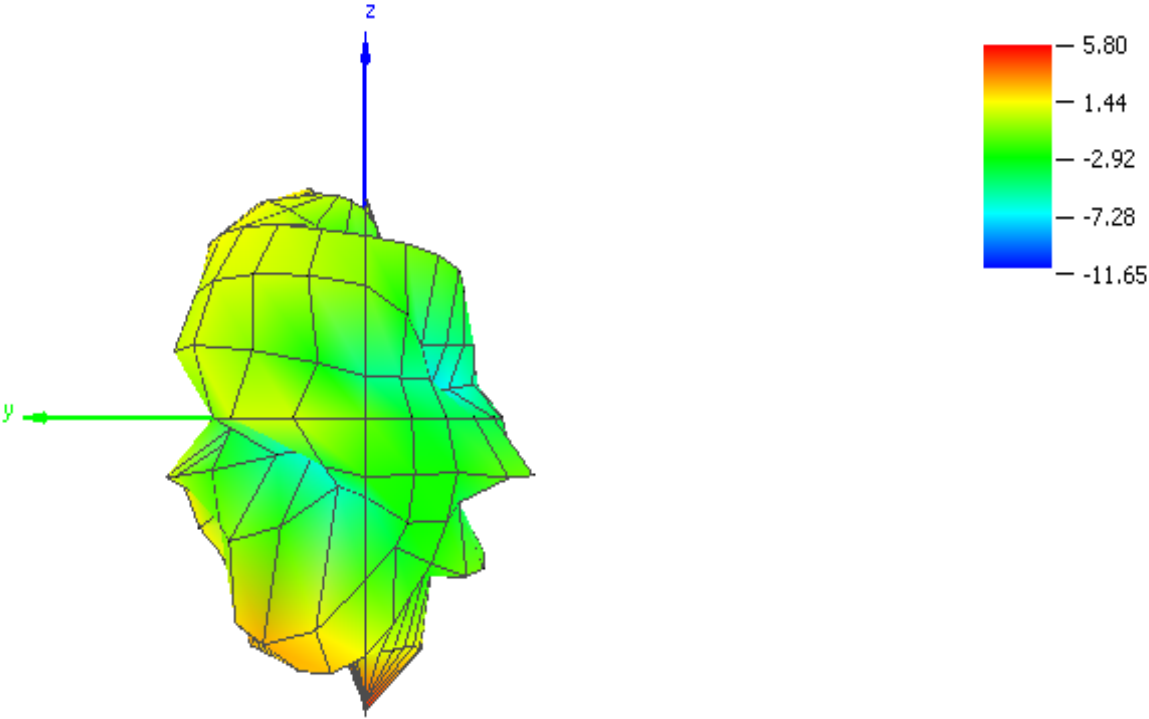
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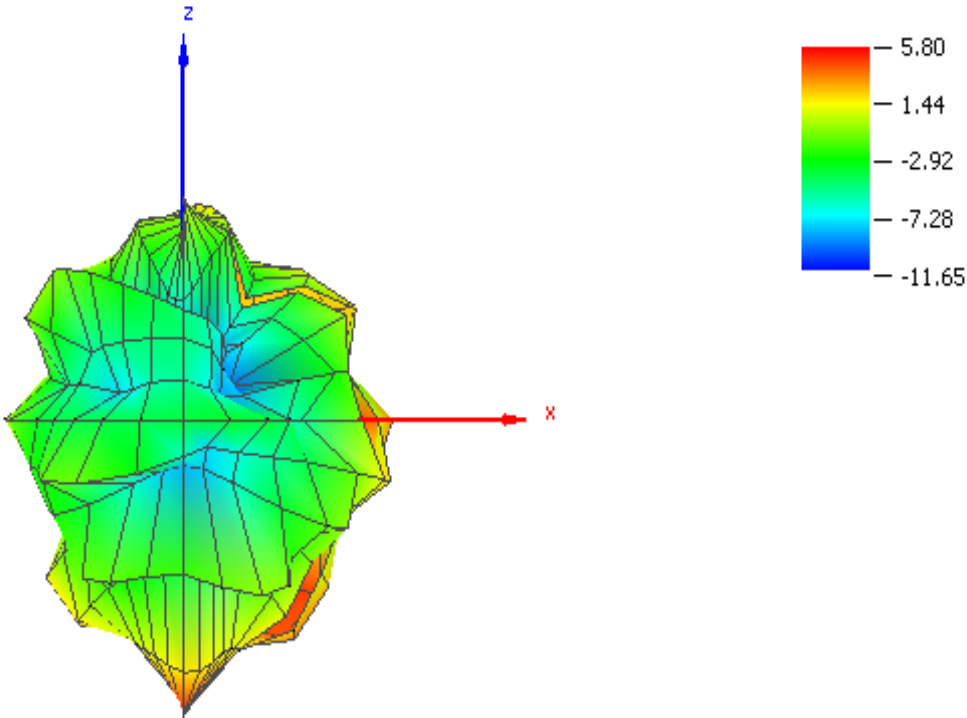
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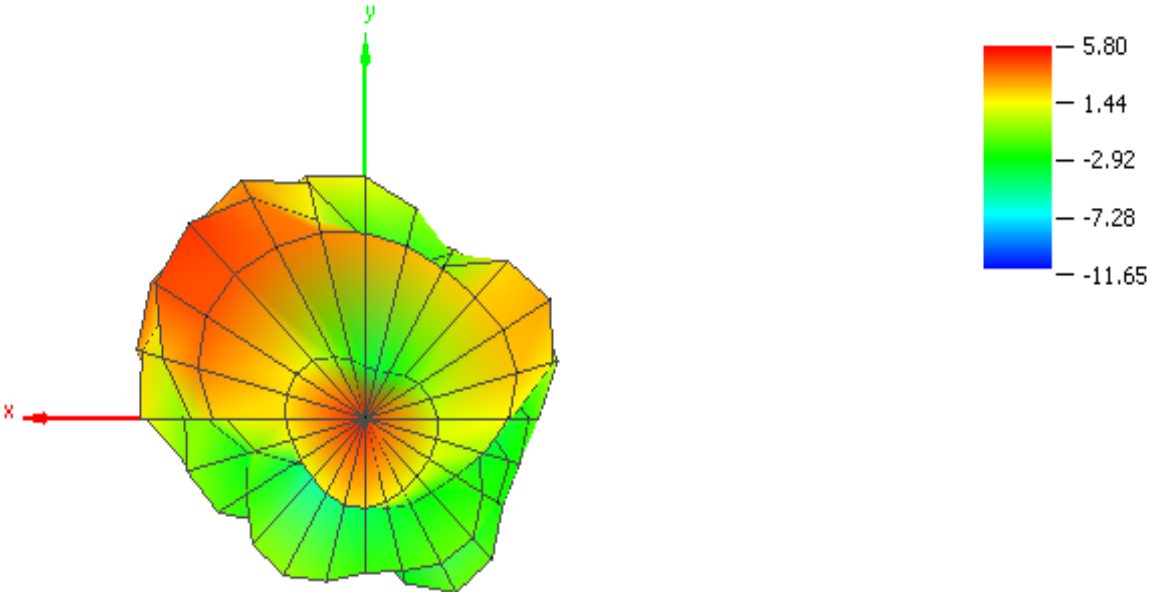
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



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