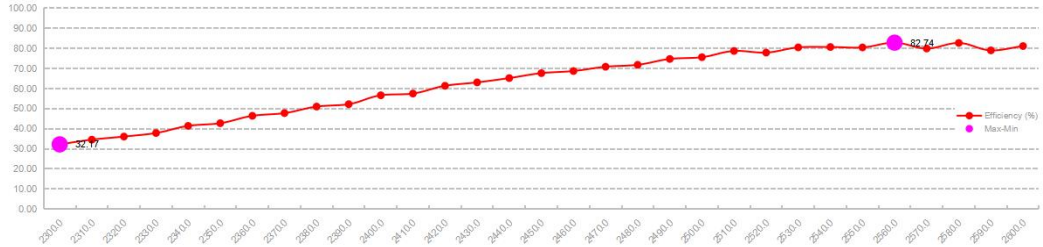
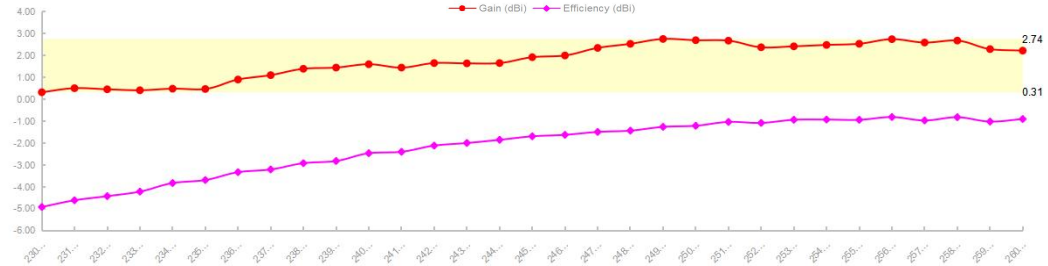
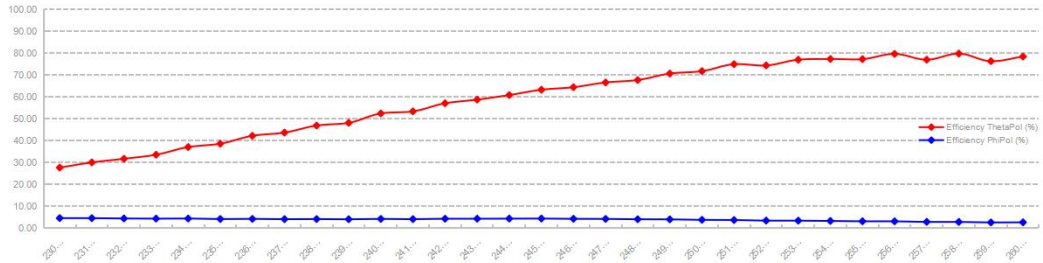
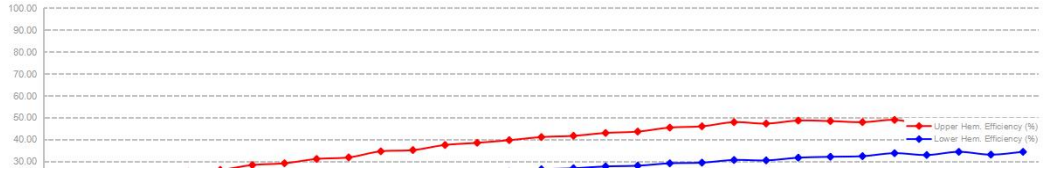
深圳市海博思科技有限公司

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Frequency (MHz)	2300.0	2310.0	2320.0	2330.0	2340.0	2350.0	2360.0	2370.0	2380.0	2390.0	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	2510.0	2520.0	2530.0	2540.0	2550.0	2560.0	2570.0	2580.0	2590.0	2600.0
Efficiency (dBi)	-4.93	-4.62	-4.43	-4.22	-3.83	-3.70	-3.34	-3.21	-2.93	-2.83	-2.47	-2.41	-2.13	-2.01	-1.86	-1.70	-1.63	-1.50	-1.44	-1.27	-1.22	-1.05	-1.09	-0.95	-0.94	-0.95	-0.82	-0.98	-0.83	-1.03	-0.91
Gain (dBi)	0.31	0.49	0.44	0.40	0.47	0.46	0.89	1.09	1.38	1.43	1.59	1.43	1.64	1.63	1.64	1.91	1.99	2.33	2.52	2.74	2.68	2.66	2.36	2.40	2.47	2.52	2.73	2.58	2.67	2.28	2.21
Efficiency (%)	32.17	34.51	36.04	37.81	41.36	42.69	46.36	47.71	50.95	52.15	56.58	57.43	61.30	62.99	65.13	67.58	68.63	70.76	71.73	74.63	75.51	78.61	77.80	80.38	80.57	80.36	82.74	79.84	82.59	78.90	81.04
Directivity (dB)	5.23	5.11	4.88	4.62	4.31	4.15	4.23	4.30	4.31	4.26	4.06	3.84	3.77	3.63	3.50	3.61	3.62	3.83	3.96	4.01	3.90	3.71	3.45	3.35	3.40	3.47	3.55	3.55	3.50	3.31	3.12
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	75.00	75.00	75.00	75.00	90.00	90.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
Peak Gain Position (Phi)	210.00	195.00	195.00	195.00	195.00	195.00	210.00	210.00	210.00	210.00	195.00	345.00	345.00	345.00	345.00	210.00	195.00	0.00	0.00	345.00	345.00	345.00	345.00	0.00	0.00	0.00	0.00	345.00	345.00	345.00	345.00
Efficiency ThetaPol (%)	27.65	30.02	31.68	33.53	37.04	38.59	42.20	43.67	46.88	48.15	52.43	53.38	57.07	58.76	60.85	63.28	64.44	66.62	67.73	70.69	71.79	74.97	74.41	77.03	77.35	77.30	79.70	77.04	79.83	76.36	78.46
Efficiency PhiPol (%)	4.52	4.50	4.36	4.28	4.32	4.11	4.16	4.04	4.07	4.00	4.15	4.05	4.22	4.23	4.28	4.30	4.19	4.14	4.00	3.94	3.72	3.64	3.39	3.35	3.22	3.06	3.04	2.80	2.76	2.54	2.58
Upper Hem. Efficiency (%)	18.87	20.61	21.87	23.14	25.39	26.19	28.39	29.19	31.16	31.88	34.64	35.21	37.53	38.51	39.72	41.13	41.70	43.00	43.63	45.45	46.03	47.92	47.29	48.66	48.42	47.93	48.96	46.87	48.19	45.76	46.66
Lower Hem. Efficiency (%)	13.29	13.90	14.17	14.67	15.97	16.50	17.97	18.52	19.80	20.27	21.94	22.23	23.77	24.47	25.41	26.45	26.93	27.76	28.10	29.18	29.48	30.69	30.51	31.72	32.15	32.43	33.78	32.96	34.40	33.14	34.39
T90(H)圆度	6.27	6.01	5.78	5.54	5.04	4.62	4.20	3.81	3.57	3.69	3.38	2.96	2.86	2.69	3.04	3.70	4.25	4.51	4.31	3.80	3.30	2.98	2.87	2.97	3.13	3.24	3.13	2.80	2.40	2.15	2.15
Gain 15deg (dBi)																															
E1(XZ)波瓣宽度	19.00	19.00	19.00	19.00	20.00	22.00	23.00	24.00	24.00	24.00	23.00	50.00	52.00	51.00	52.00	30.00	27.00	26.00	25.00	27.00	33.00	45.00	50.00	52.00	52.00	52.00	50.00	50.00	52.00	55.00	58.00
E1(XZ)前后比	4.90	5.25	5.39	5.49	5.44	5.51	5.61	5.88	6.31	6.67	6.91	7.04	7.02	7.02	7.09	7.42	7.88	8.55	8.77	8.78	8.54	8.48	8.37	8.55	8.71	8.84	8.85	8.66	8.33	8.16	7.86
E2(YZ)波瓣宽度	35.00	30.00	30.00	25.00	29.00	42.00	48.00	53.00	55.00	56.00	56.00	56.00	57.00	58.00	57.00	59.00	62.00	68.00	74.00	79.00	82.00	75.00	79.00	73.00	74.00	75.00	76.00	76.00	76.00	75.00	73.00
E2(YZ)前后比	6.13	6.31	6.67	7.07	6.96	6.77	6.40	6.32	6.38	6.49	6.70	6.59	6.26	5.90	6.13	6.25	6.41	6.40	6.22	6.20	6.31	6.41	6.45	6.38	6.25	6.40	6.48	6.71	6.72	6.62	6.44
最大增益处轴比(P)	14.45	22.44	24.19	26.70	27.33	28.12	18.27	18.92	19.52	20.22	35.39	30.05	31.44	29.48	25.89	17.64	24.45	20.37	20.85	19.96	20.74	21.15	20.61	25.05	24.61	26.76	31.00	26.91	30.62	35.31	34.44
顶点(Theta=0)处轴比(P)	1.62	4.13	7.48	10.70	13.84	17.51	27.82	34.22	17.55	13.35	11.23	8.79	7.96	6.80	6.05	5.34	5.36	6.14	6.29	7.06	7.93	8.23	8.47	9.17	10.21	10.41	10.62	11.30	10.20	8.96	8.28
仰角10度最差(大)轴比(P)	61.13	90.82	67.43	57.84	55.52	72.39	59.73	69.72	62.04	51.02	72.81	63.91	68.01	59.85	52.86	51.53	98.13	64.27	77.38	93.82	76.91	78.44	61.67	73.47	90.46	75.24	60.35	64.63	72.51	67.57	62.09
Hc(XY)波瓣宽度	112.00	114.00	117.00	122.00	130.00	329.00	136.00	137.00	137.00	139.00	143.00	360.00	360.00	360.00	354.00	321.00	312.00	309.00	316.00	329.00	339.00	360.00	360.00	360.00	343.00	340.00	343.00	360.00	360.00	360.00	360.00
Hc(XY)前后比	1.42	1.50	1.49	1.39	1.14	0.82	0.72	0.81	0.99	1.24	1.36	1.21	0.79	0.66	0.58	0.65	0.75	0.99	1.15	0.82	0.47	0.18	0.06	0.14	0.36	0.63	0.72	0.51	0.17	0.00	0.00
左旋圆极化效率(%)	17.36	18.50	19.22	20.11	21.64	21.88	23.40	23.72	25.20	26.04	28.27	28.42	30.17	31.02	31.99	33.54	34.56	35.92	36.63	38.12	38.55	40.13	39.81	41.63	41.89	41.79	43.11	41.08	42.01	40.23	41.04
右旋圆极化效率(%)	14.81	16.01	16.82	17.69	19.72	20.82	22.96	23.99	25.75	26.10	28.31	29.01	31.12	31.97	33.13	34.04	34.07	34.84	35.10	36.51	36.96	38.48	37.99	38.75	38.68	38.57	39.63	38.76	40.58	38.67	40.00
Empty																															

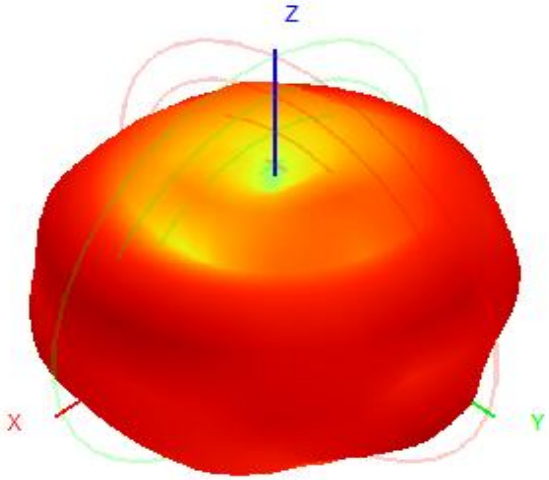




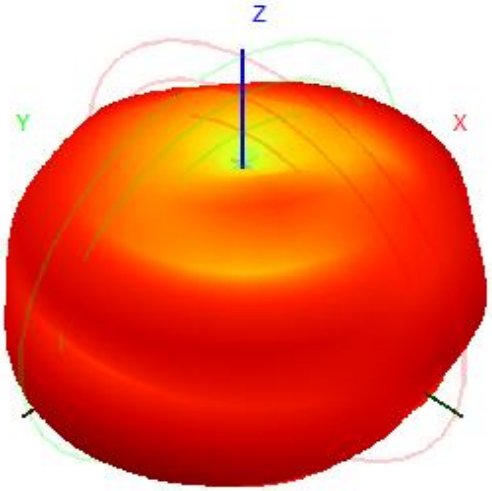




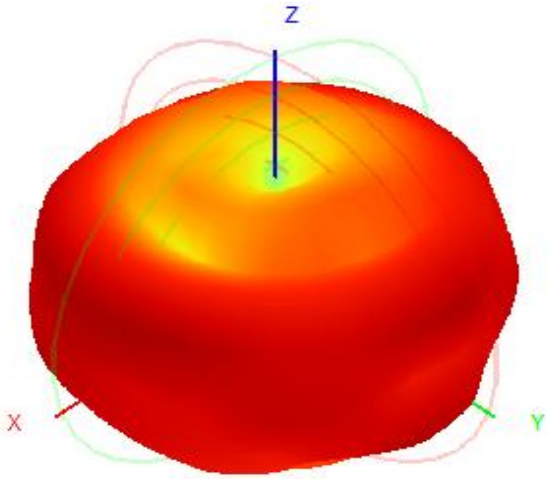
2300.0MHz H+V, Eff: 32.2%



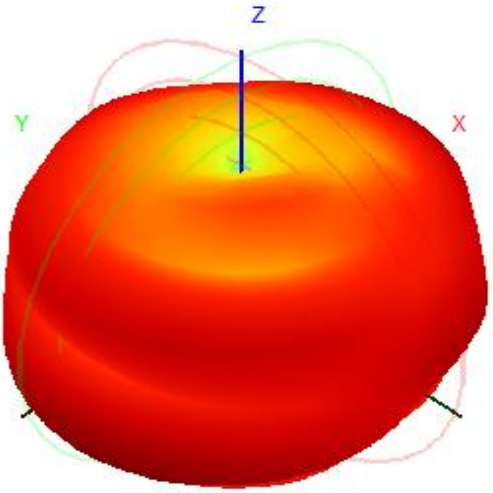
Back View



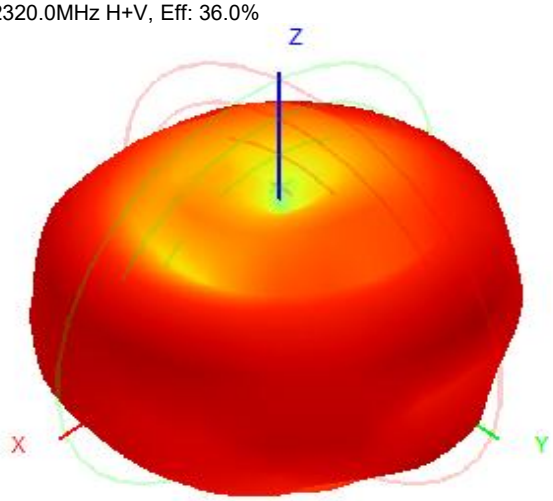
2310.0MHz H+V, Eff: 34.5%



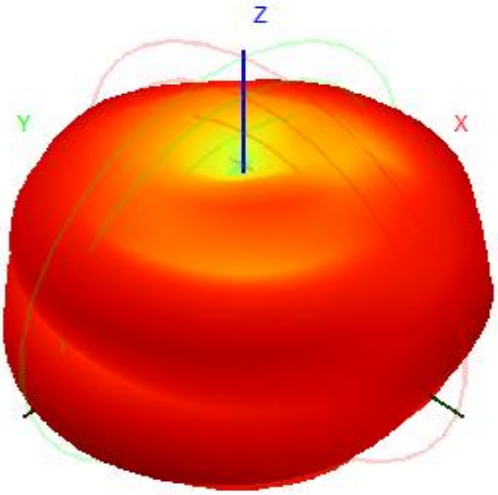
Back View



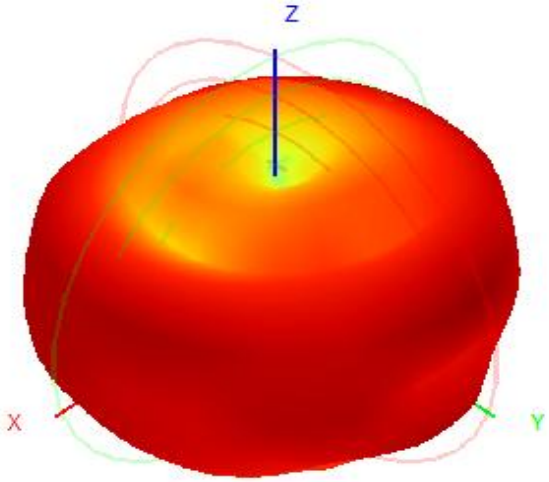
2320.0MHz H+V, Eff: 36.0%



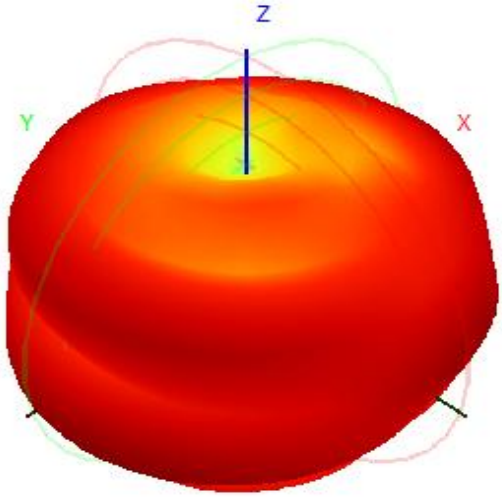
Back View



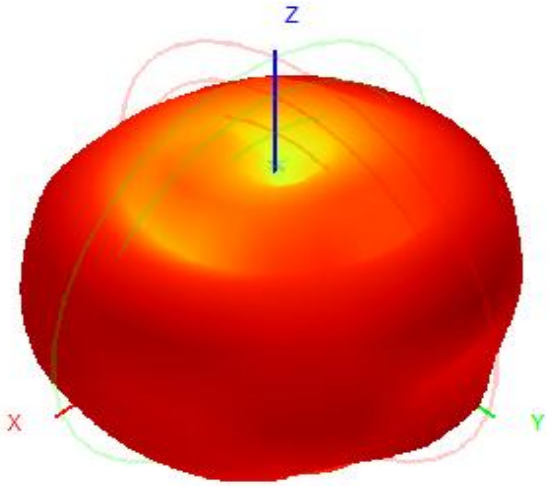
2330.0MHz H+V, Eff: 37.8%



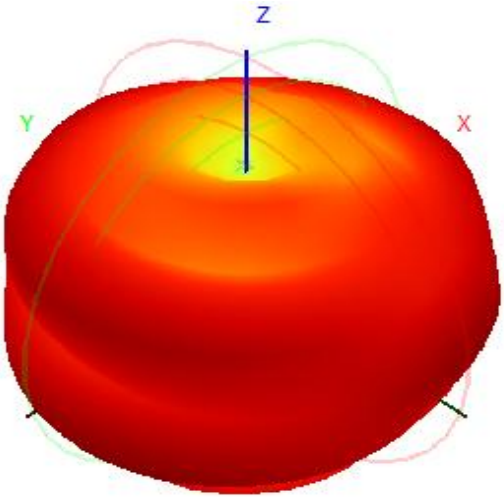
Back View



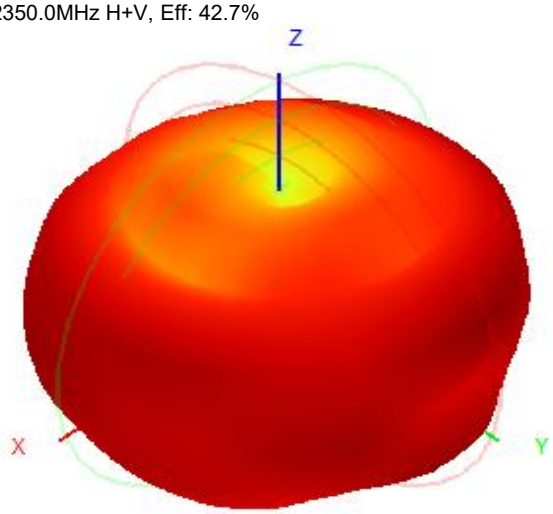
2340.0MHz H+V, Eff: 41.4%



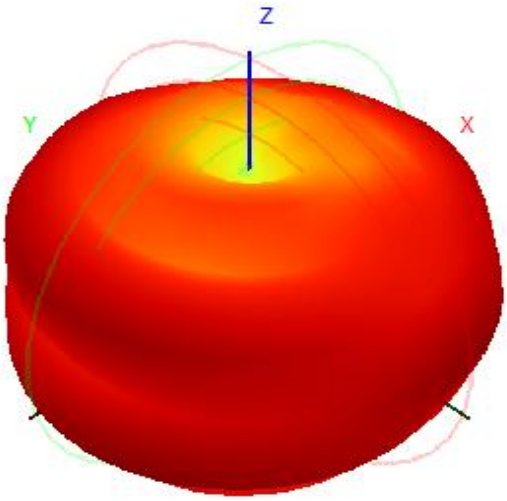
Back View



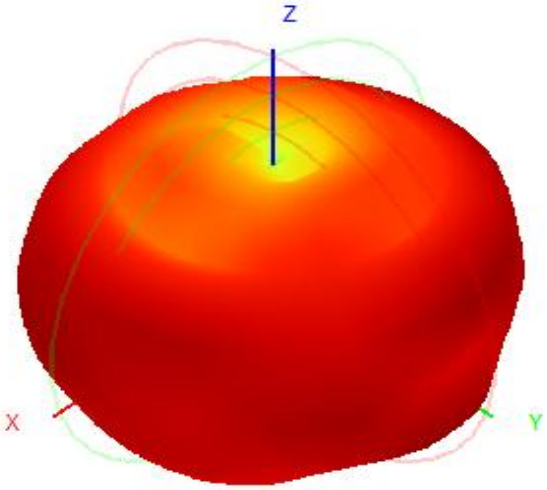
2350.0MHz H+V, Eff: 42.7%



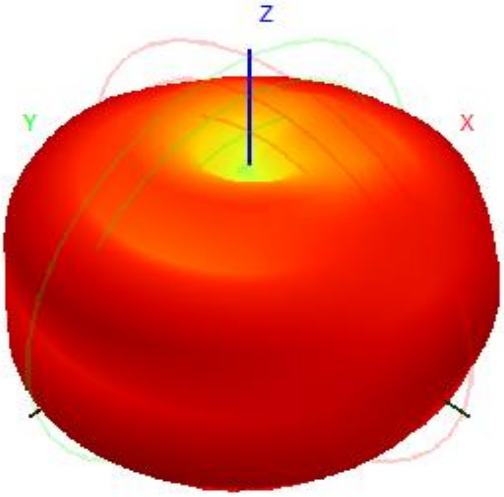
Back View



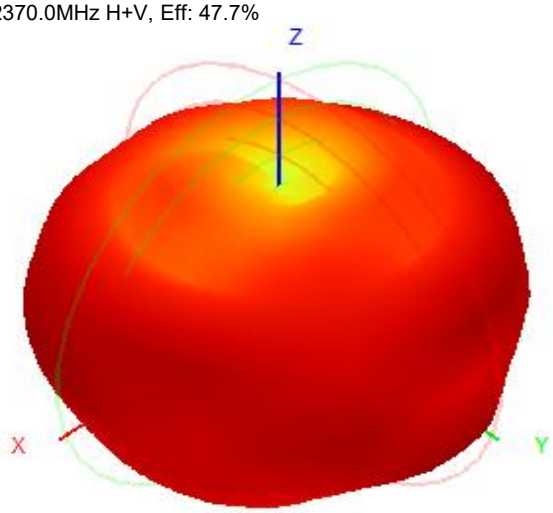
2360.0MHz H+V, Eff: 46.4%



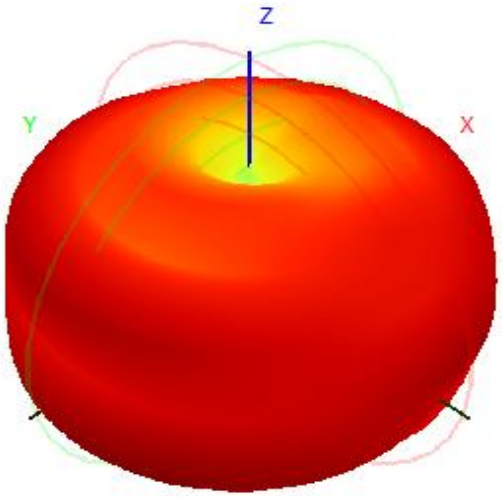
Back View



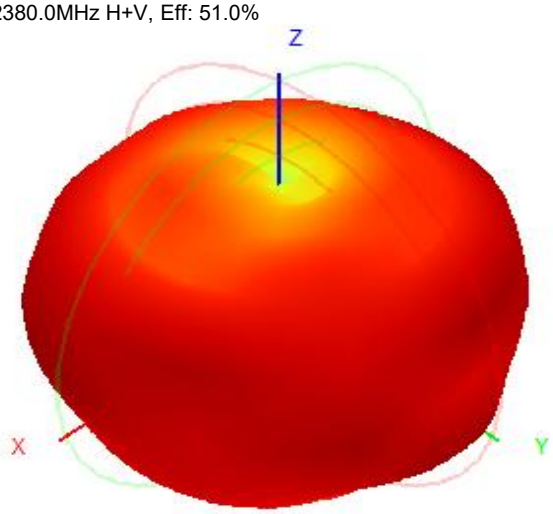
2370.0MHz H+V, Eff: 47.7%



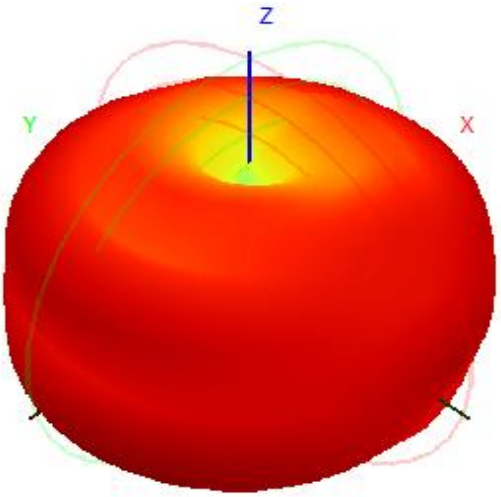
Back View



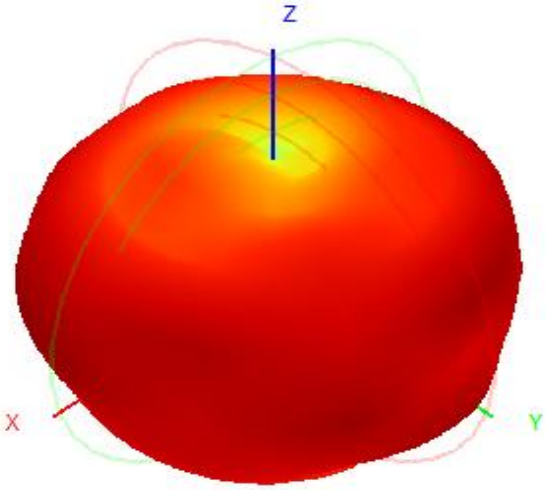
2380.0MHz H+V, Eff: 51.0%



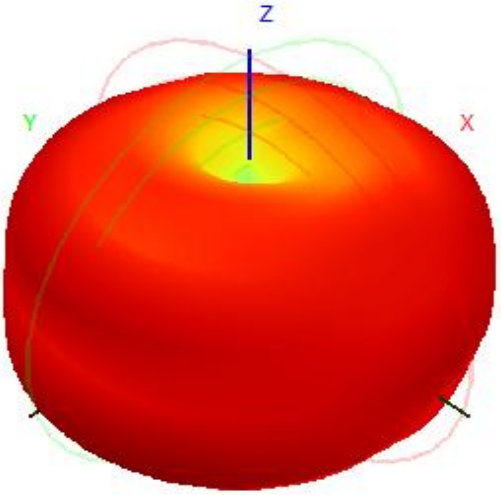
Back View



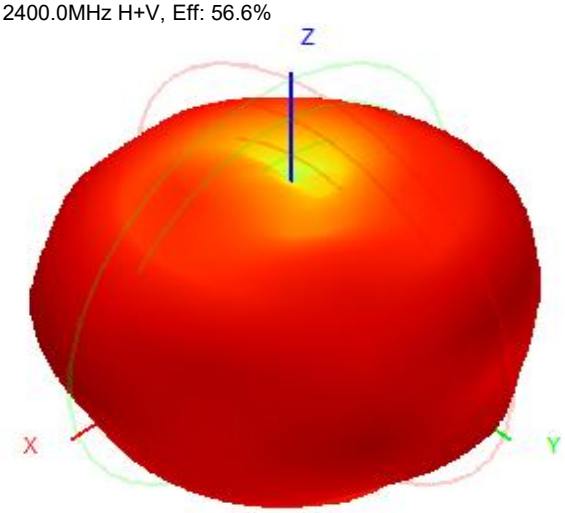
2390.0MHz H+V, Eff: 52.1%



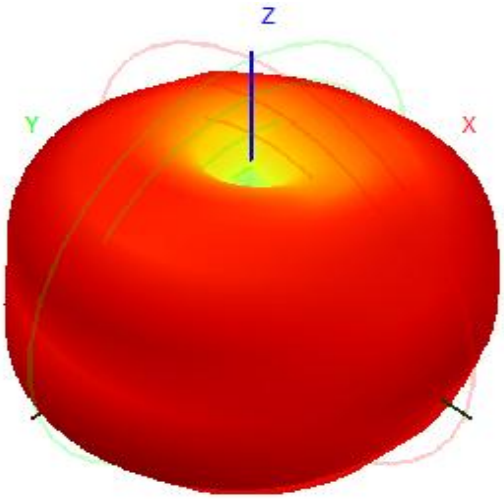
Back View



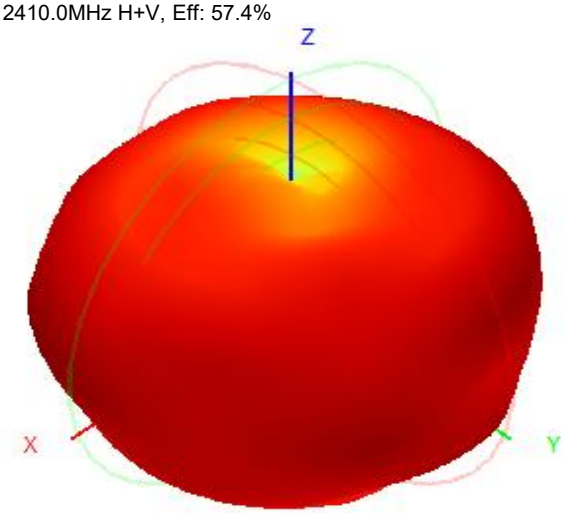
2400.0MHz H+V, Eff: 56.6%



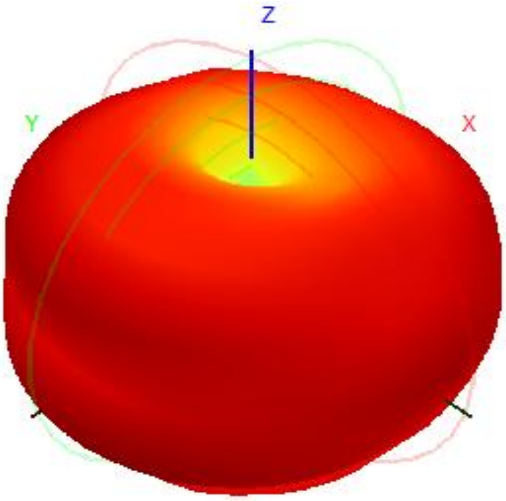
Back View



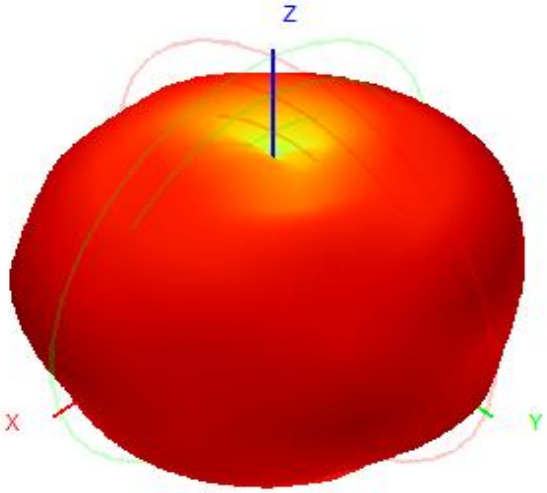
2410.0MHz H+V, Eff: 57.4%



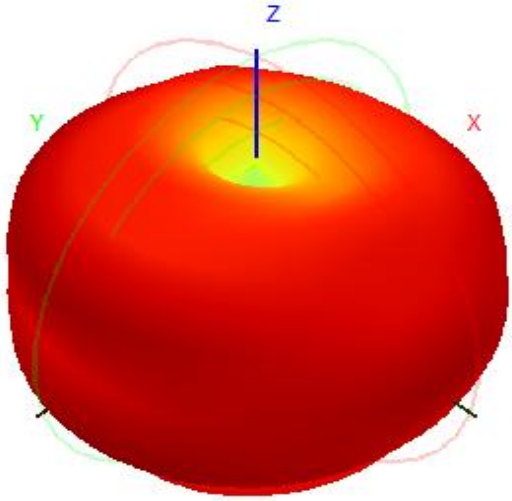
Back View



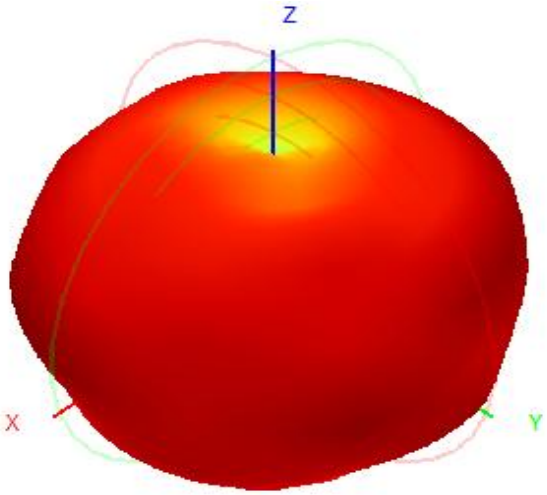
2420.0MHz H+V, Eff: 61.3%



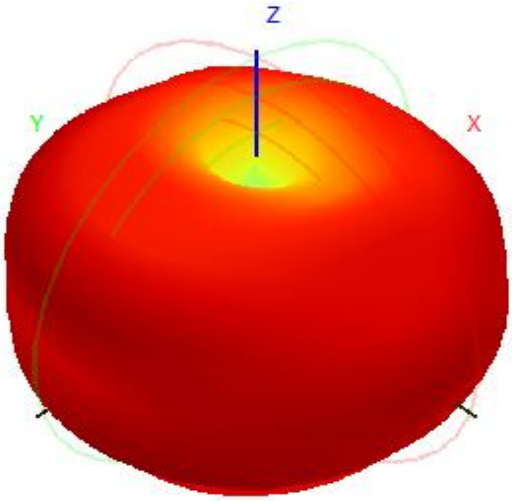
Back View



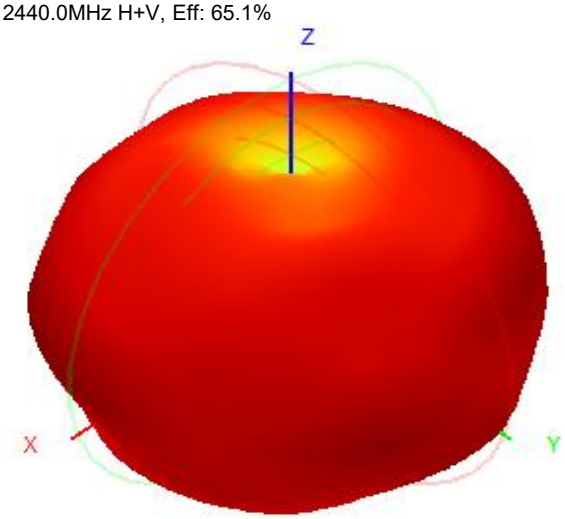
2430.0MHz H+V, Eff: 63.0%



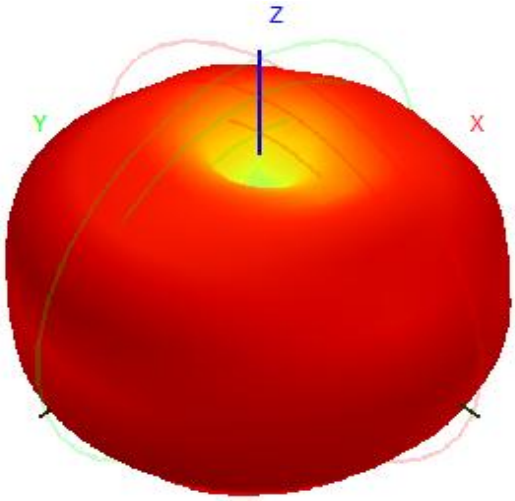
Back View



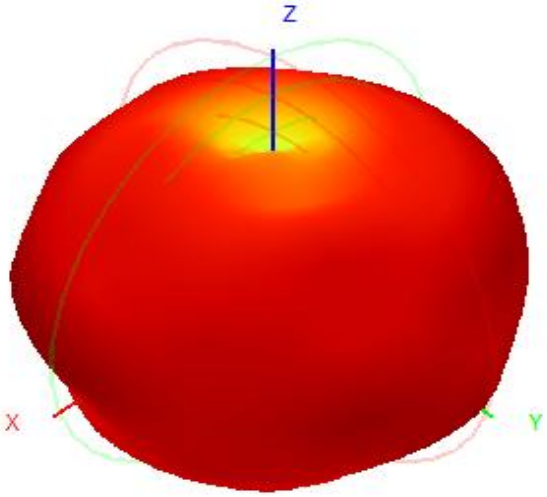
2440.0MHz H+V, Eff: 65.1%



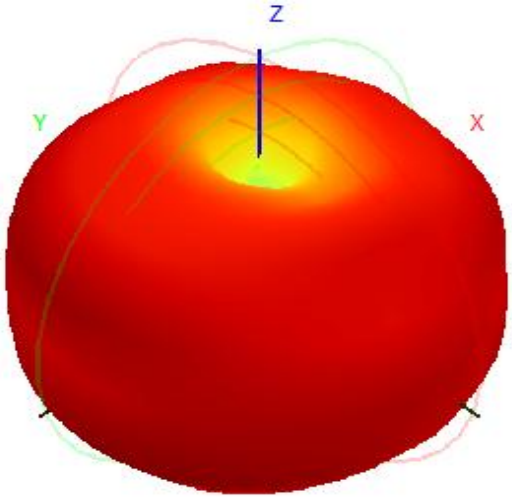
Back View



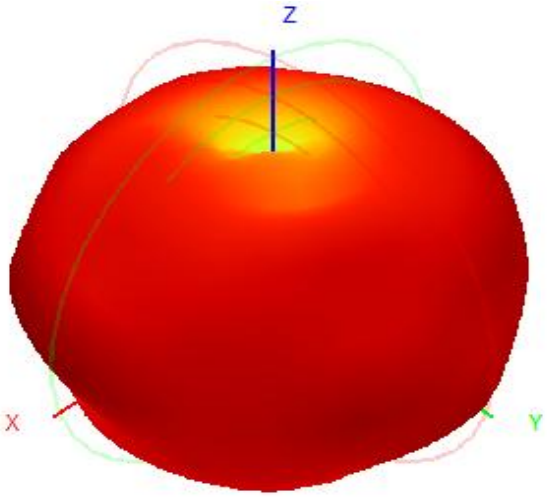
2450.0MHz H+V, Eff: 67.6%



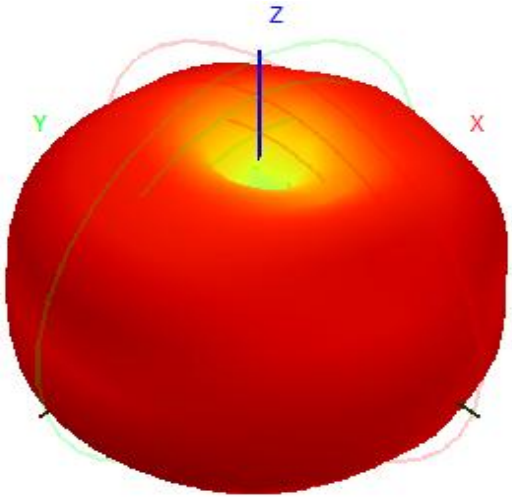
Back View



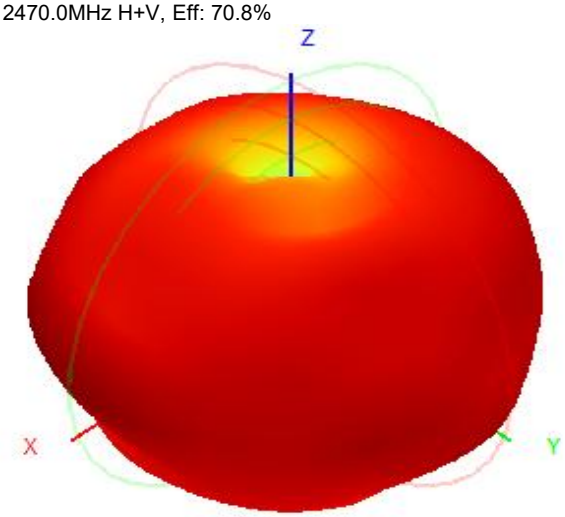
2460.0MHz H+V, Eff: 68.6%



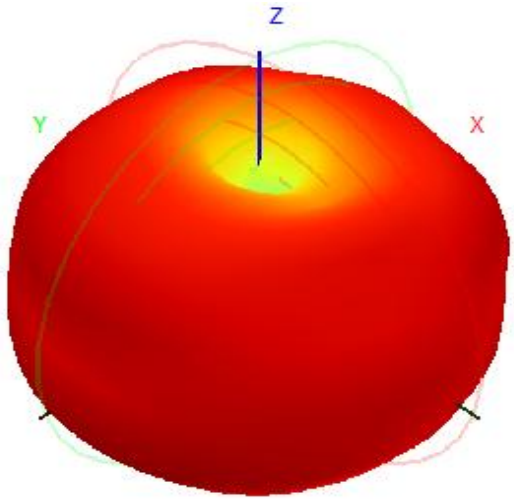
Back View



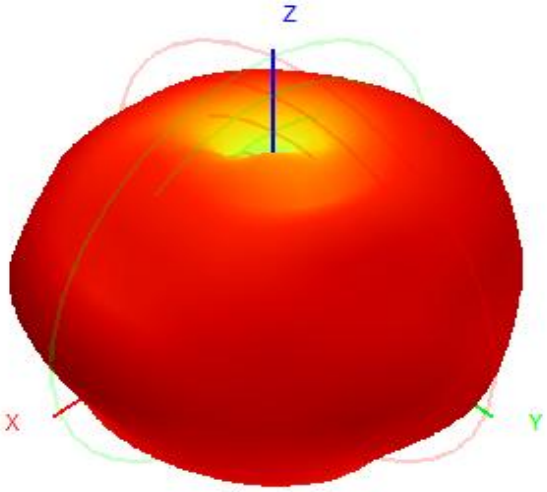
2470.0MHz H+V, Eff: 70.8%



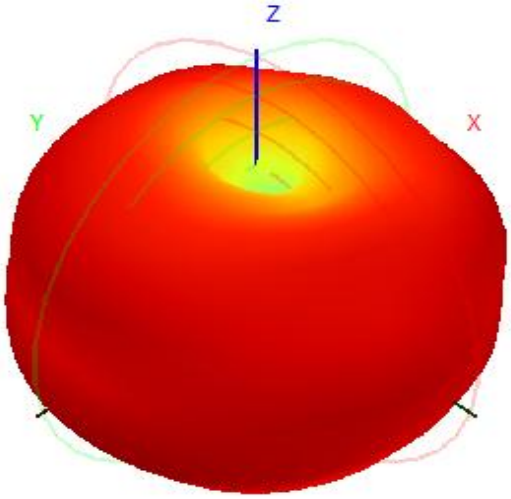
Back View



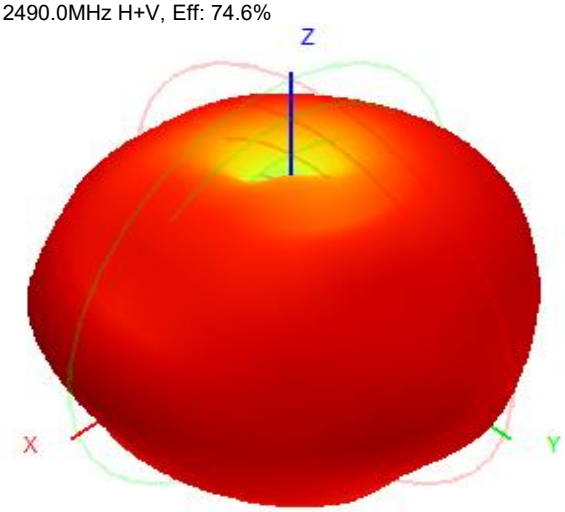
2480.0MHz H+V, Eff: 71.7%



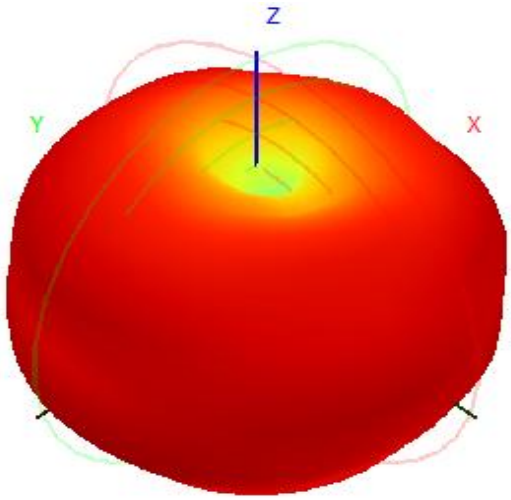
Back View



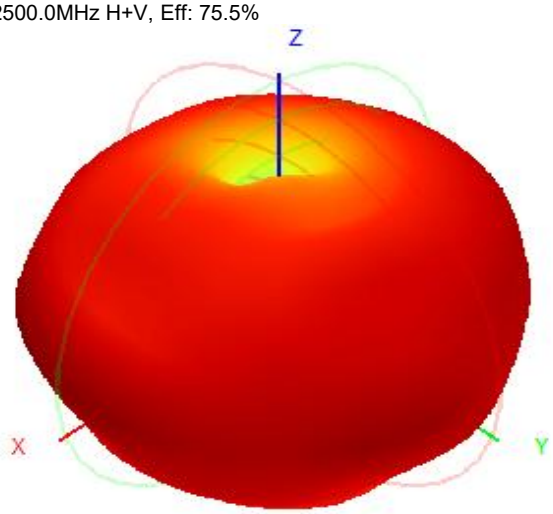
2490.0MHz H+V, Eff: 74.6%



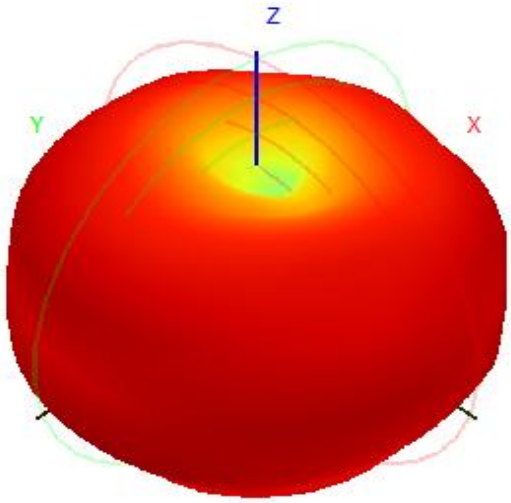
Back View



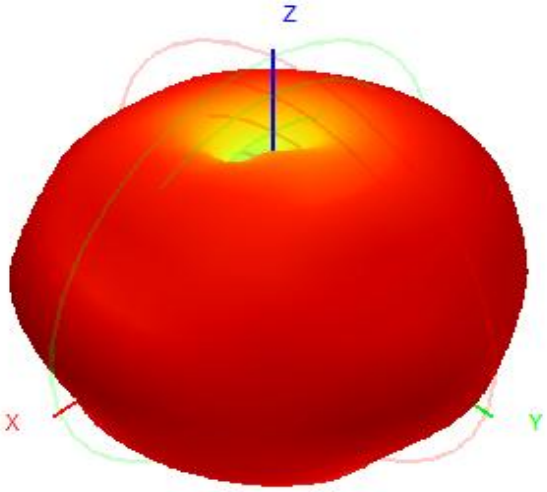
2500.0MHz H+V, Eff: 75.5%



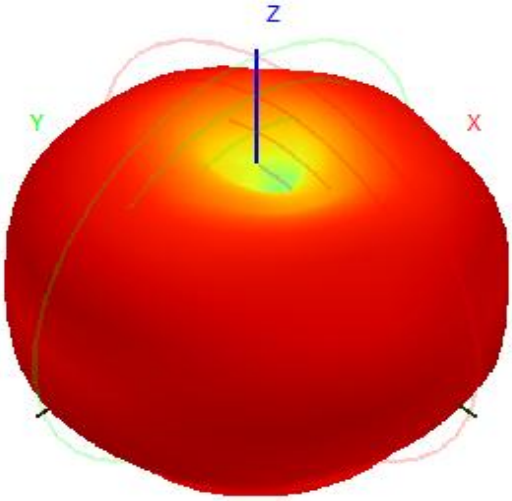
Back View



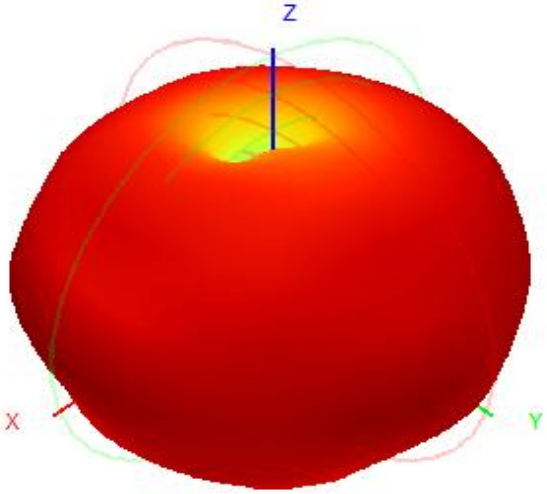
2510.0MHz H+V, Eff: 78.6%



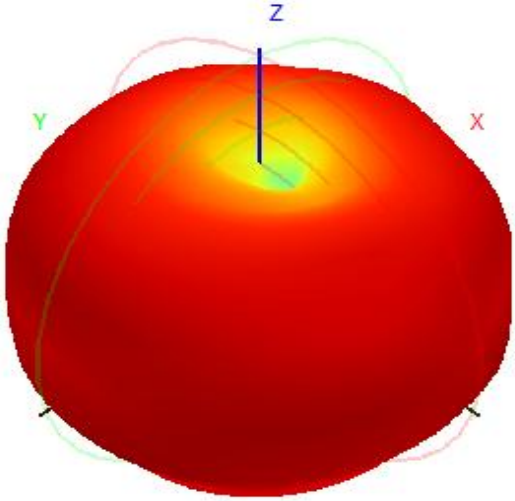
Back View



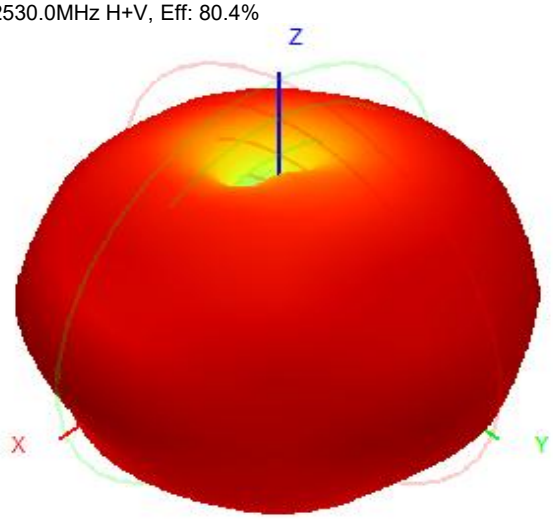
2520.0MHz H+V, Eff: 77.8%



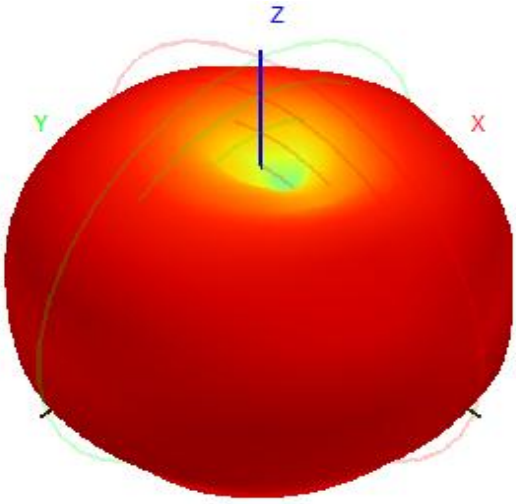
Back View



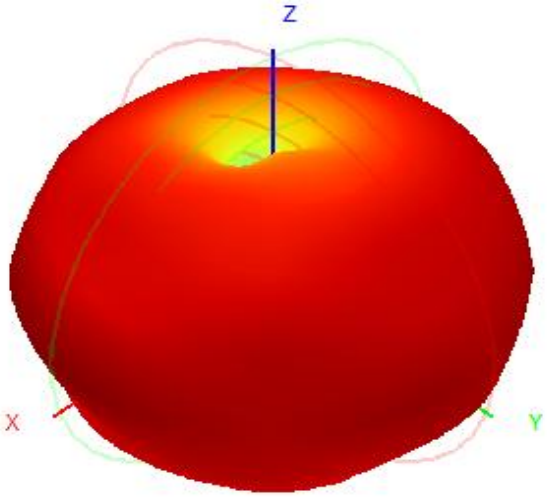
2530.0MHz H+V, Eff: 80.4%



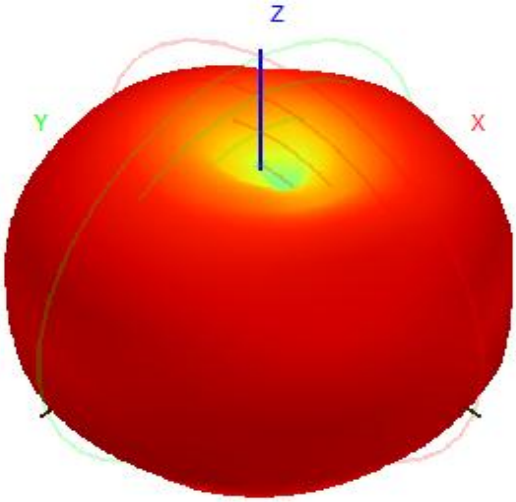
Back View



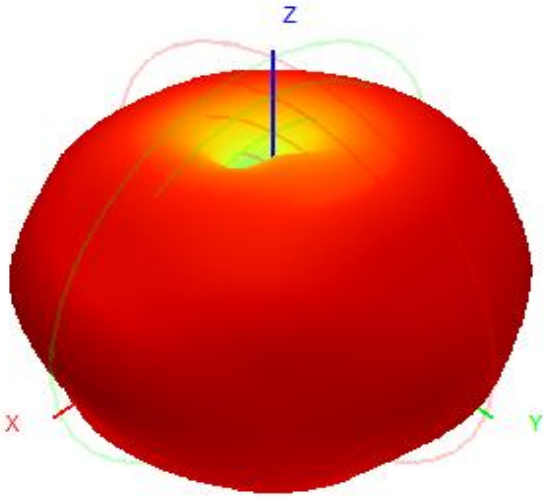
2540.0MHz H+V, Eff: 80.6%



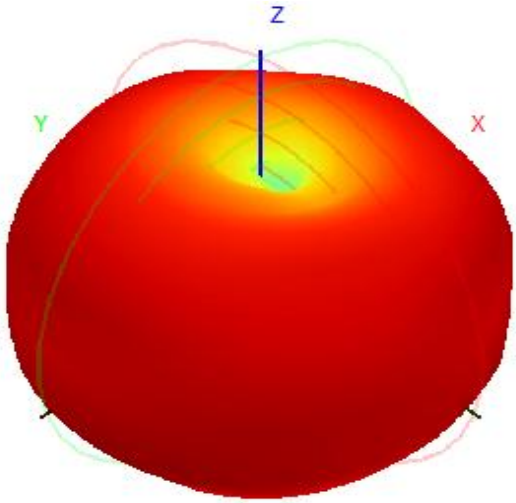
Back View



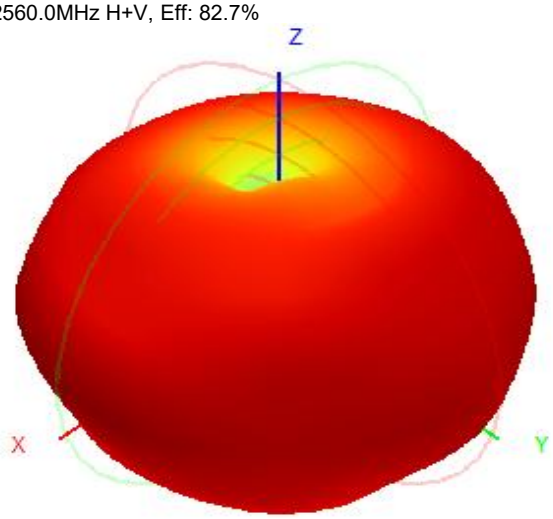
2550.0MHz H+V, Eff: 80.4%



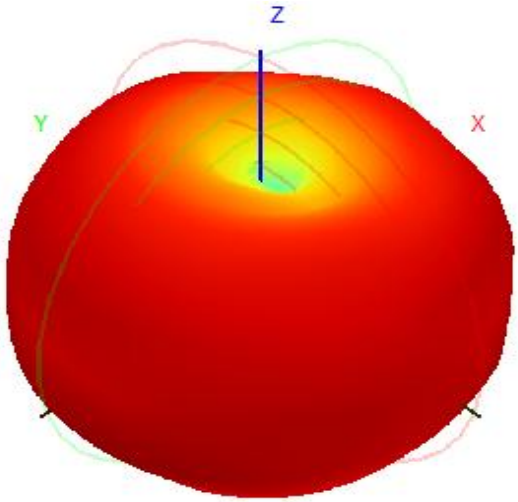
Back View



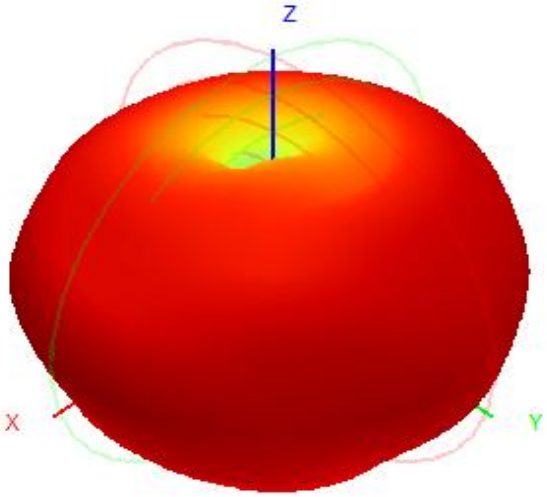
2560.0MHz H+V, Eff: 82.7%



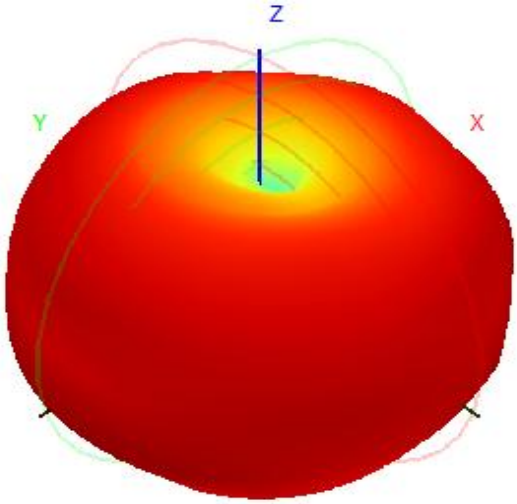
Back View



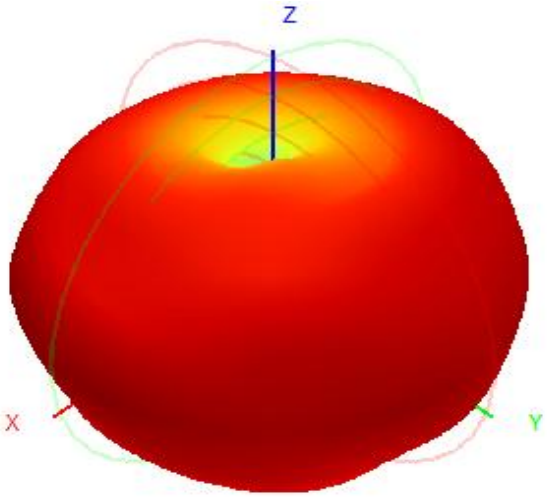
2570.0MHz H+V, Eff: 79.8%



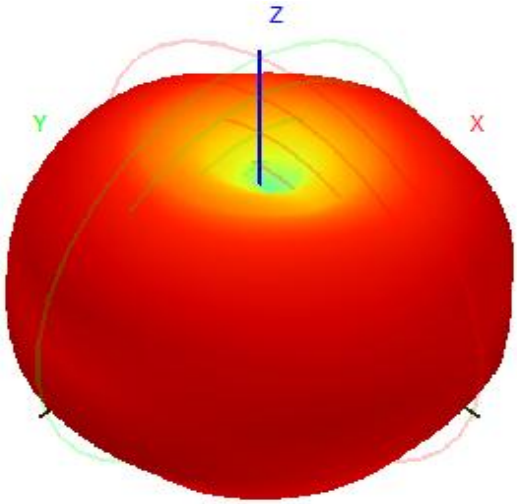
Back View



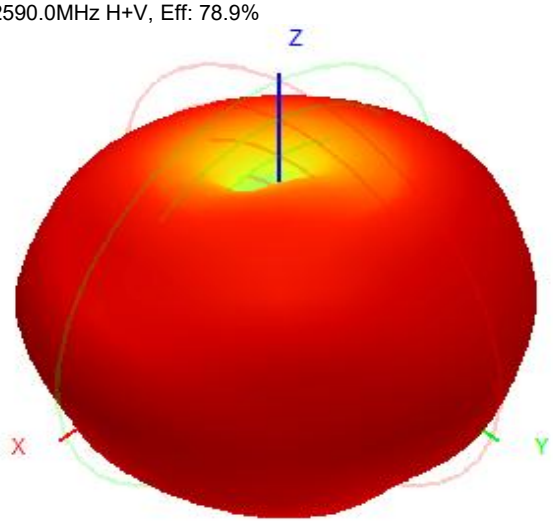
2580.0MHz H+V, Eff: 82.6%



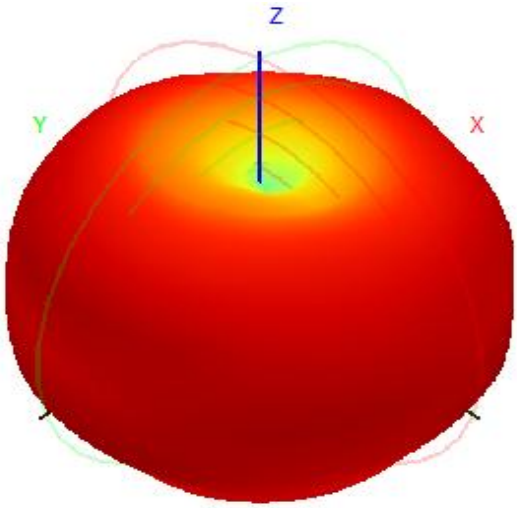
Back View



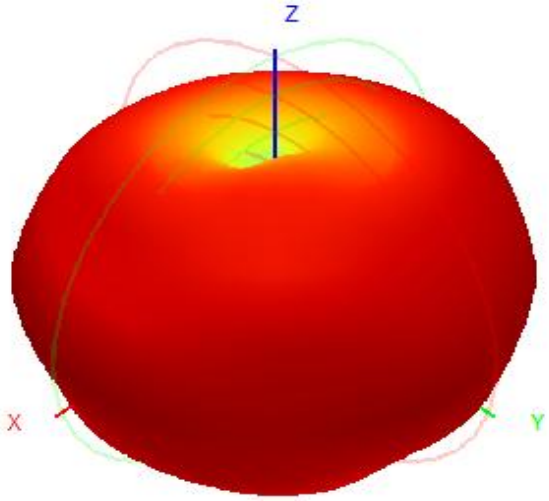
2590.0MHz H+V, Eff: 78.9%



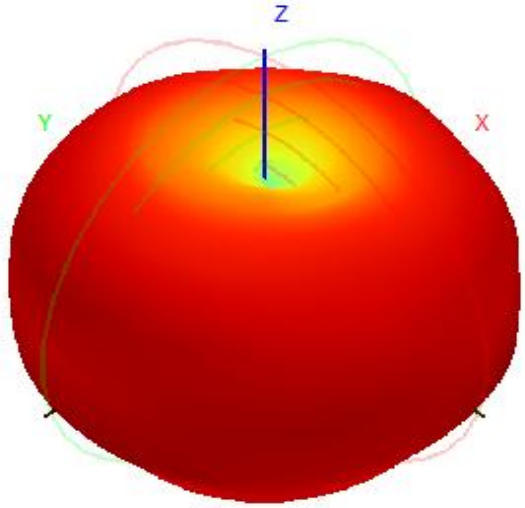
Back View



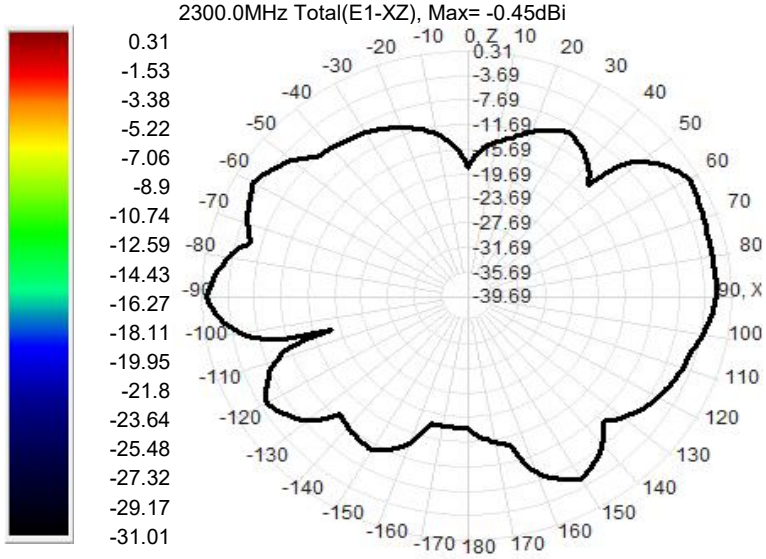
2600.0MHz H+V, Eff: 81.0%



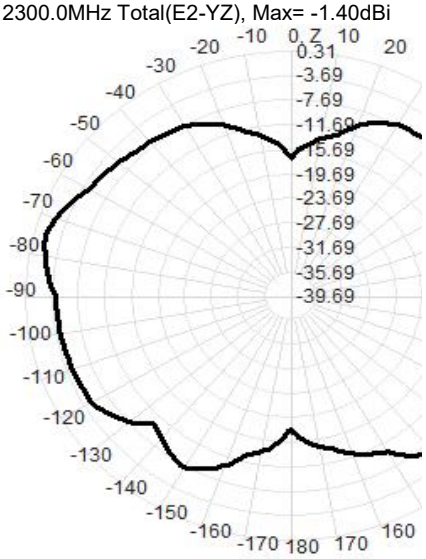
Back View



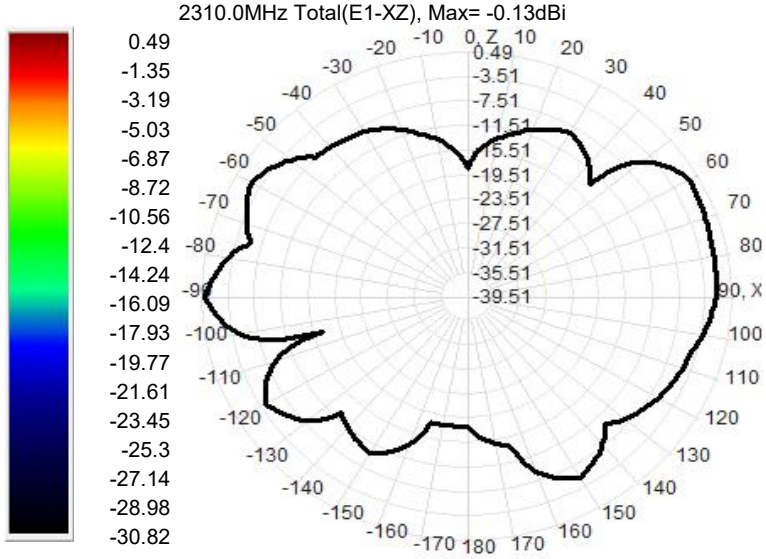
2300.0MHz Total(E1-XZ), Max= -0.45dBi



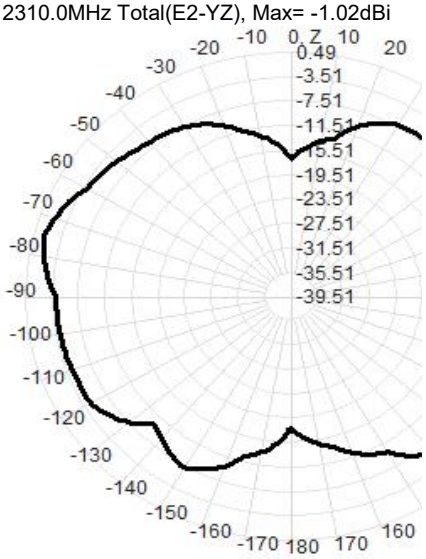
2300.0MHz Total(E2-YZ), Max= -1.40dBi



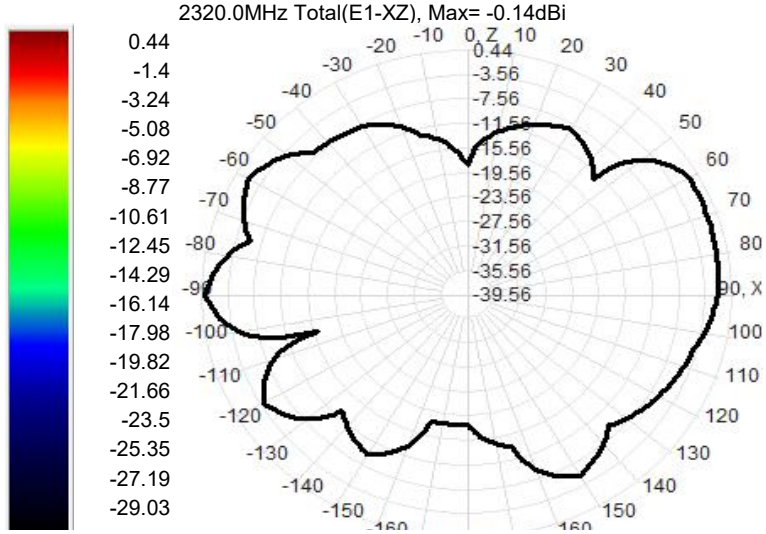
2310.0MHz Total(E1-XZ), Max= -0.13dBi



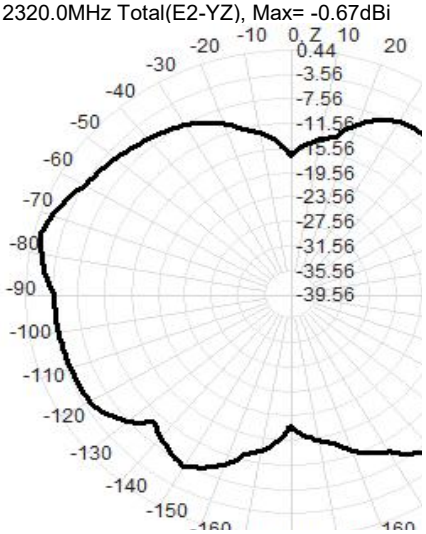
2310.0MHz Total(E2-YZ), Max= -1.02dBi

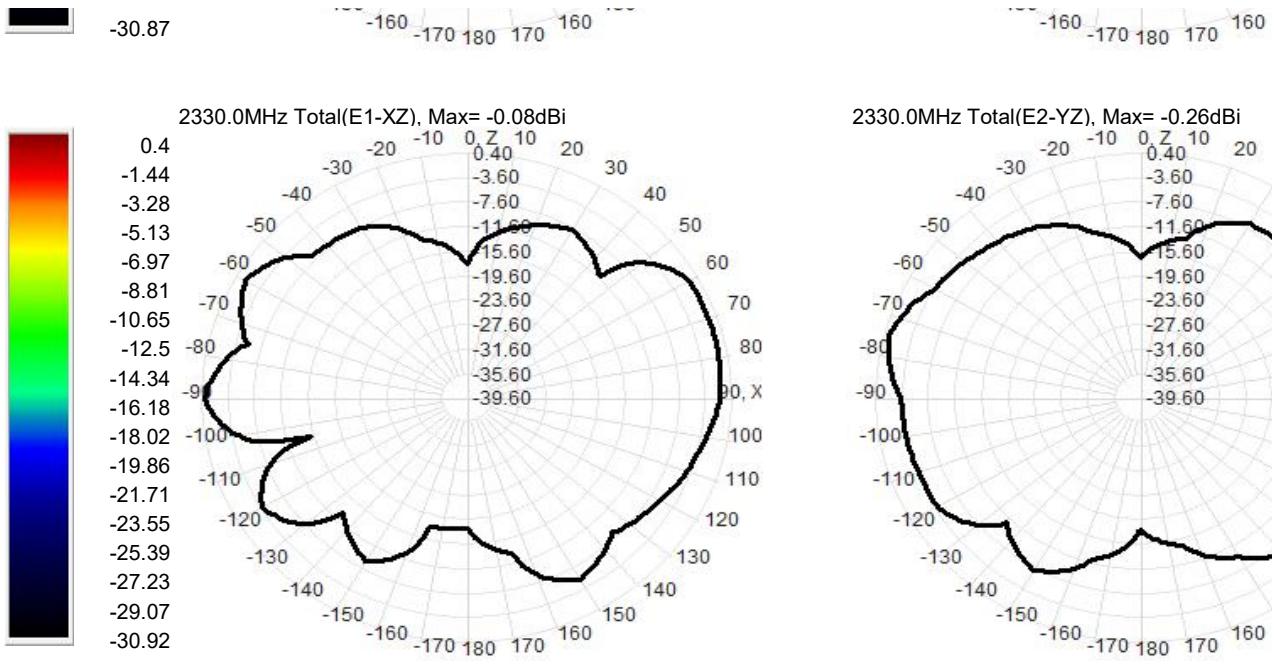


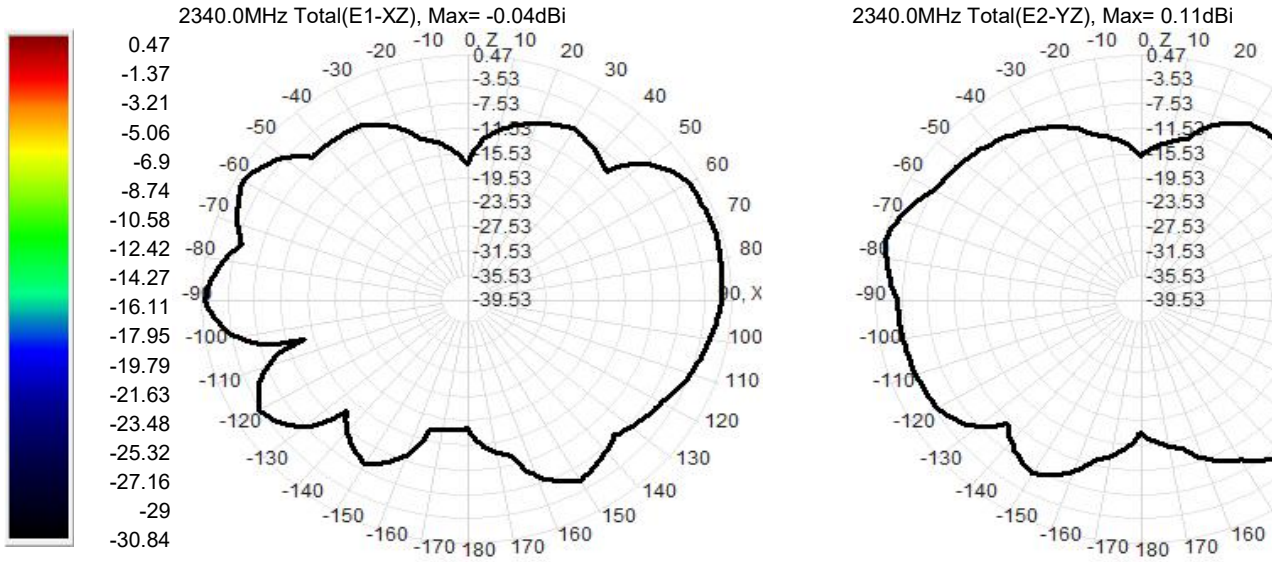
2320.0MHz Total(E1-XZ), Max= -0.14dBi

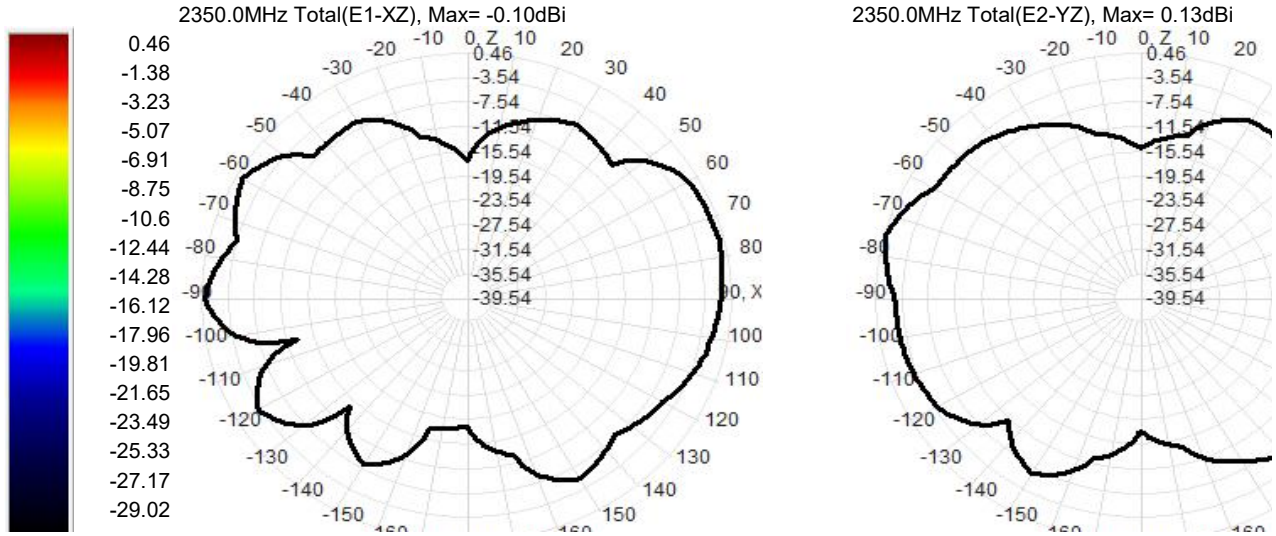


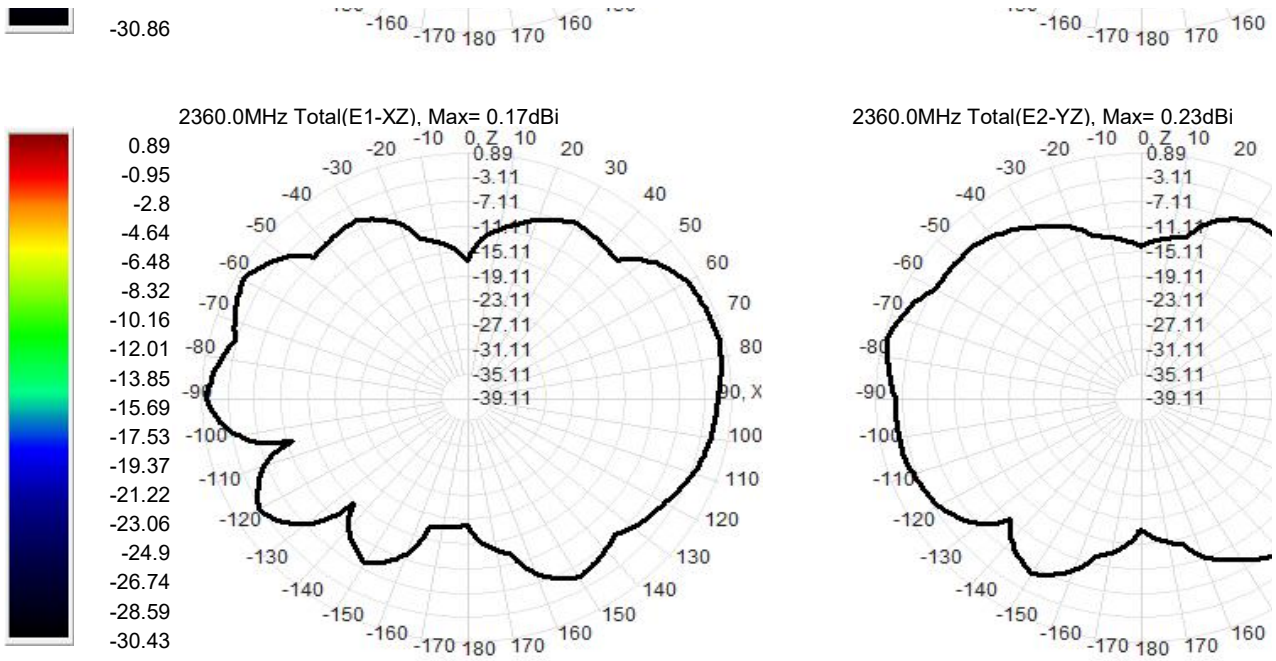
2320.0MHz Total(E2-YZ), Max= -0.67dBi

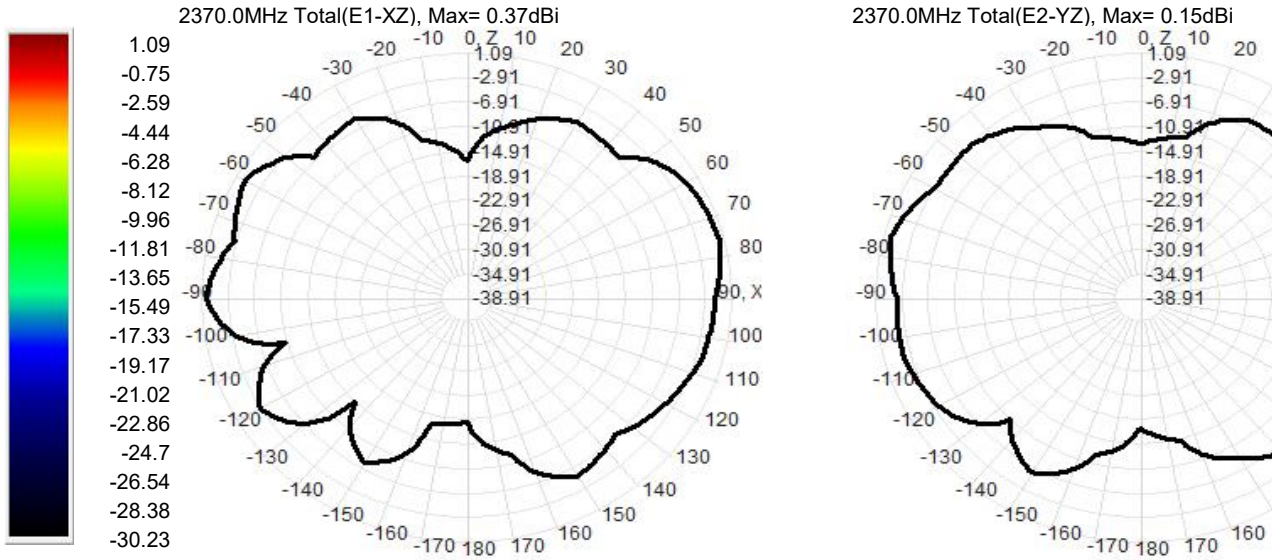


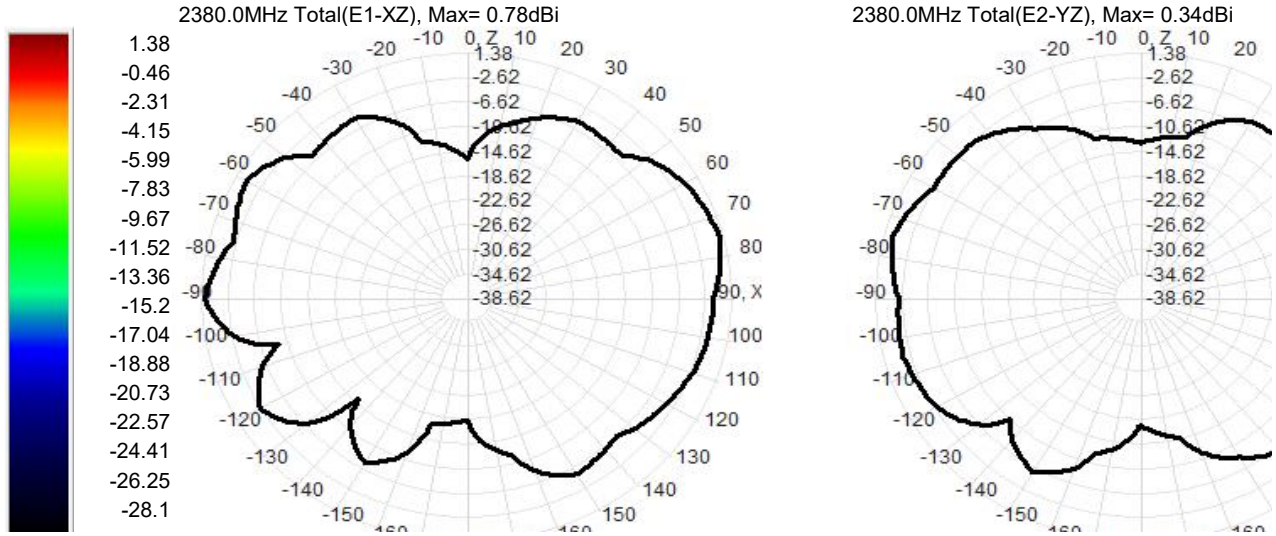

2330.0MHz Total(E1-XZ), Max= -0.08dBi
2330.0MHz Total(E2-YZ), Max= -0.26dBi
0.4
-1.44
-3.28
-5.13
-6.97
-8.81
-10.65
-12.5
-14.34
-16.18
-18.02
-19.86
-21.71
-23.55
-25.39
-27.23
-29.07
-30.92

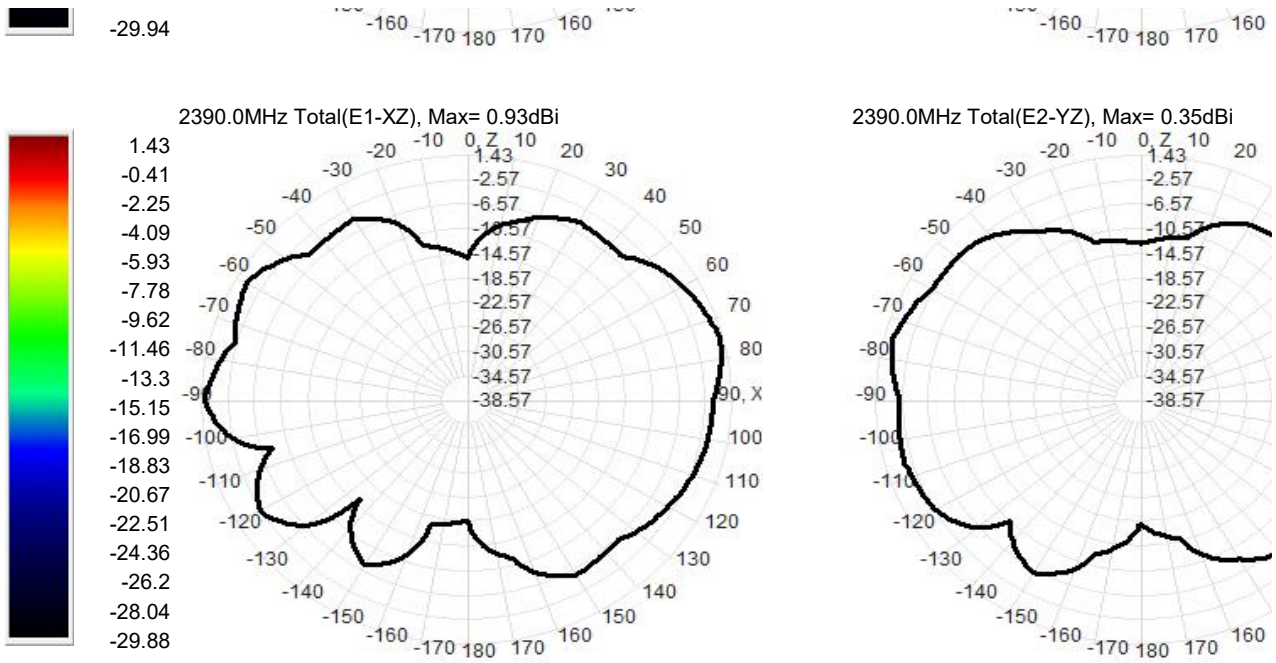

2340.0MHz Total(E1-XZ), Max= -0.04dBi
2340.0MHz Total(E2-YZ), Max= 0.11dBi
0.47
-1.37
-3.21
-5.06
-6.9
-8.74
-10.58
-12.42
-14.27
-16.11
-17.95
-19.79
-21.63
-23.48
-25.32
-27.16
-29
-30.84

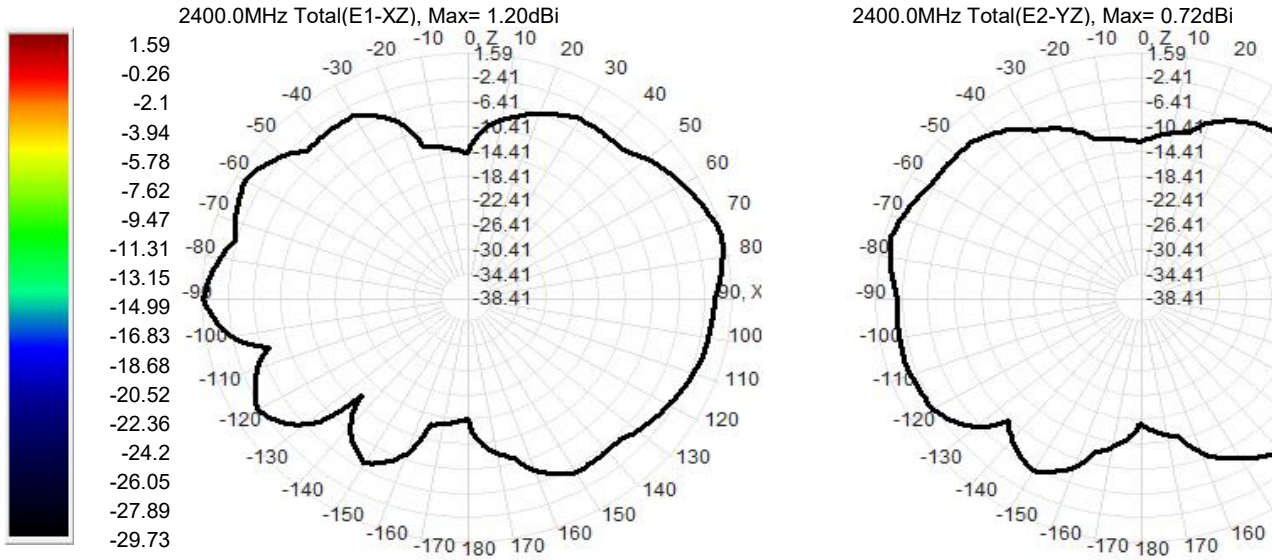

2350.0MHz Total(E1-XZ), Max= -0.10dBi
2350.0MHz Total(E2-YZ), Max= 0.13dBi
0.46
-1.38
-3.23
-5.07
-6.91
-8.75
-10.6
-12.44
-14.28
-16.12
-17.96
-19.81
-21.65
-23.49
-25.33
-27.17
-29.02

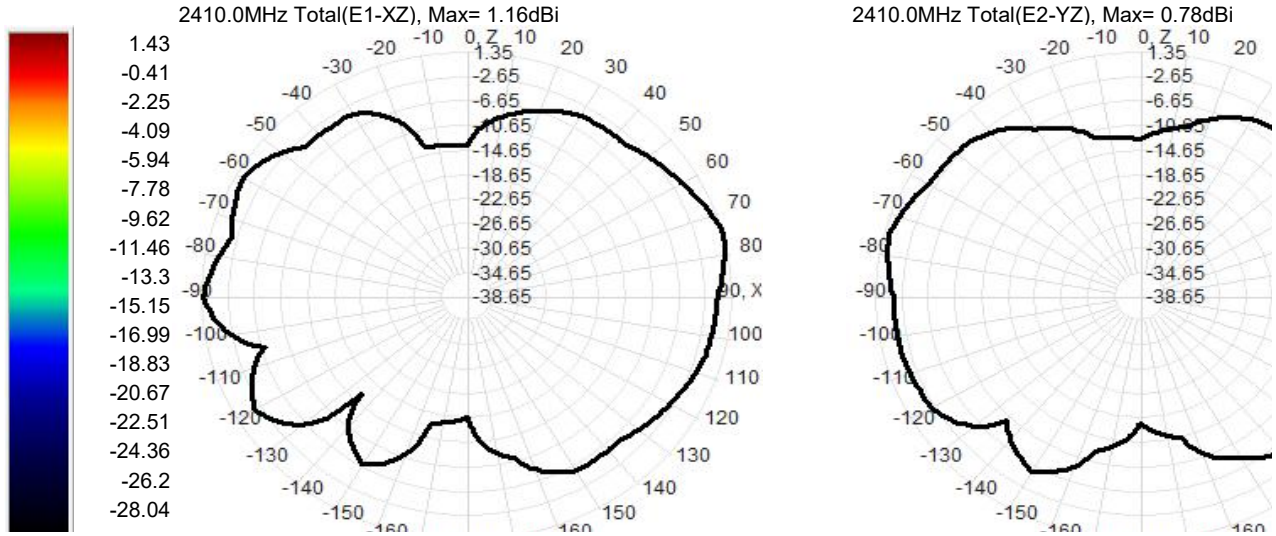

2360.0MHz Total(E1-XZ), Max= 0.17dBi
2360.0MHz Total(E2-YZ), Max= 0.23dBi
0.89
-0.95
-2.8
-4.64
-6.48
-8.32
-10.16
-12.01
-13.85
-15.69
-17.53
-19.37
-21.22
-23.06
-24.9
-26.74
-28.59
-30.43

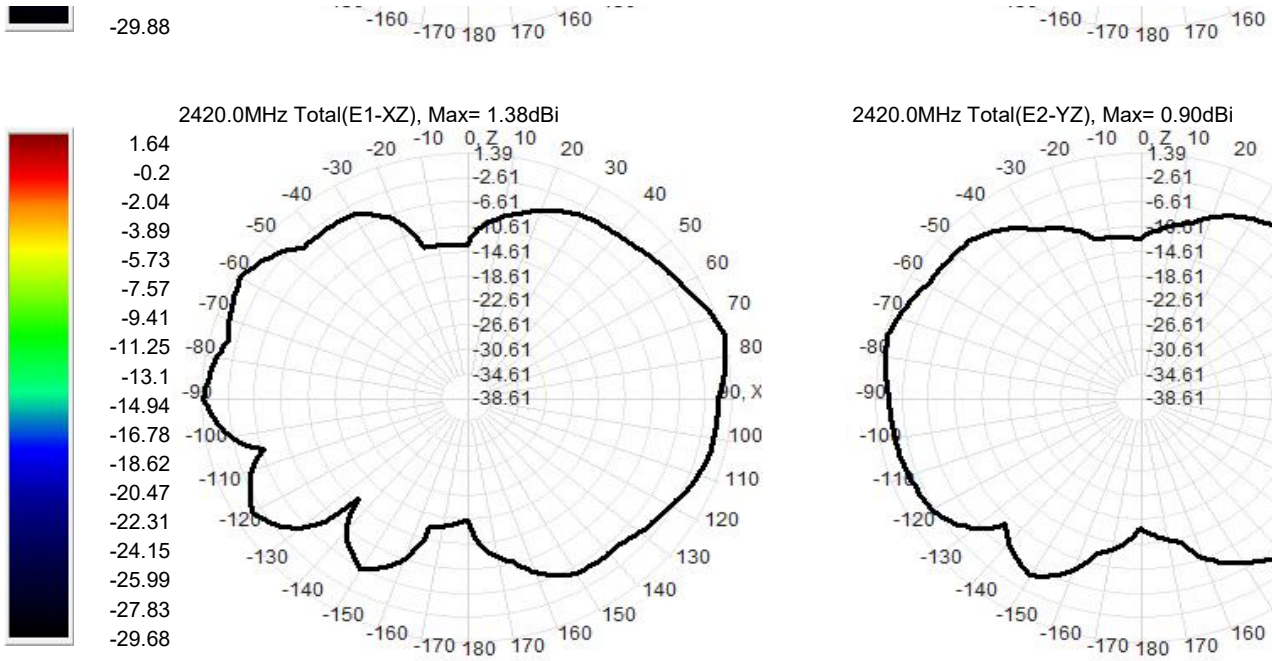

2370.0MHz Total(E1-XZ), Max= 0.37dBi
2370.0MHz Total(E2-YZ), Max= 0.15dBi
1.09
-0.75
-2.59
-4.44
-6.28
-8.12
-9.96
-11.81
-13.65
-15.49
-17.33
-19.17
-21.02
-22.86
-24.7
-26.54
-28.38
-30.23

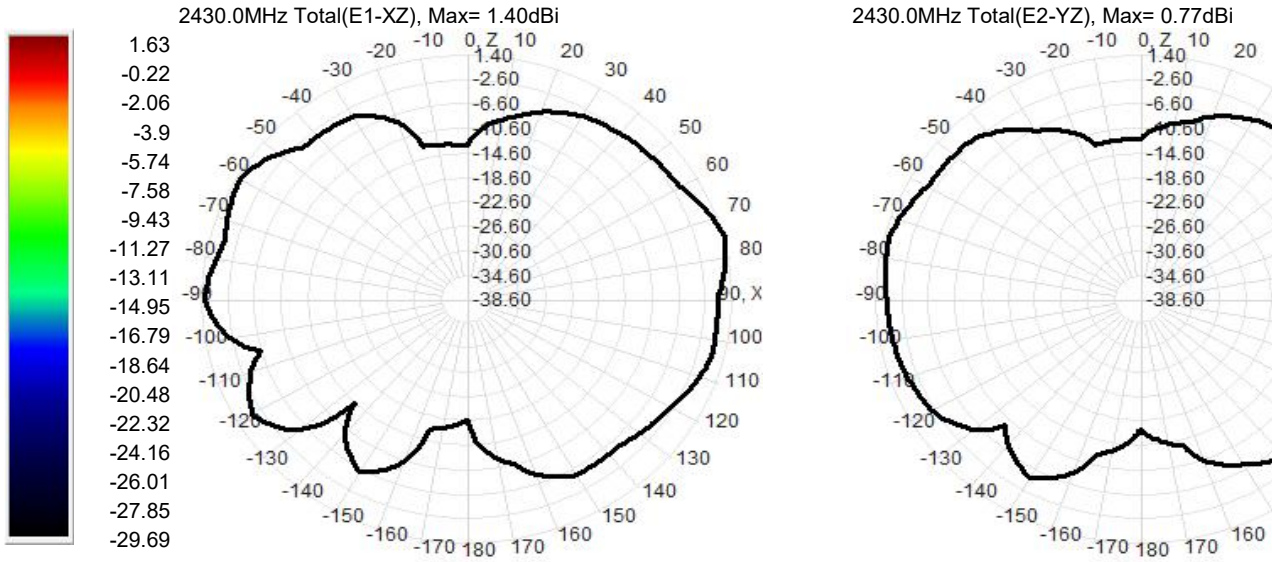

2380.0MHz Total(E1-XZ), Max= 0.78dBi
2380.0MHz Total(E2-YZ), Max= 0.34dBi
1.38
-0.46
-2.31
-4.15
-5.99
-7.83
-9.67
-11.52
-13.36
-15.2
-17.04
-18.88
-20.73
-22.57
-24.41
-26.25
-28.1

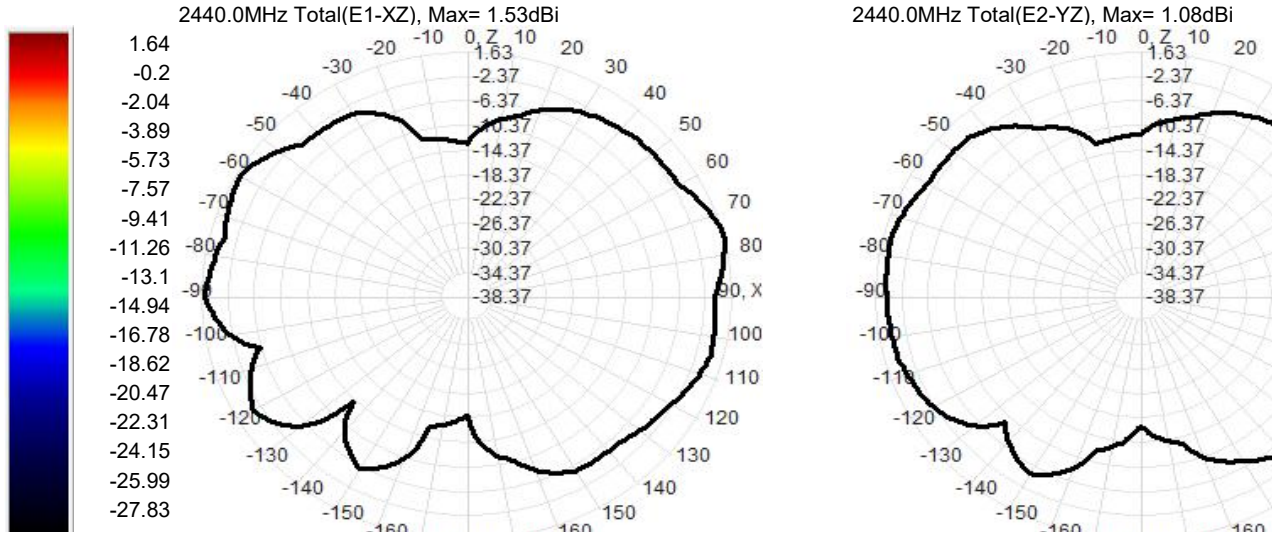

2390.0MHz Total(E1-XZ), Max= 0.93dBi
2390.0MHz Total(E2-YZ), Max= 0.35dBi

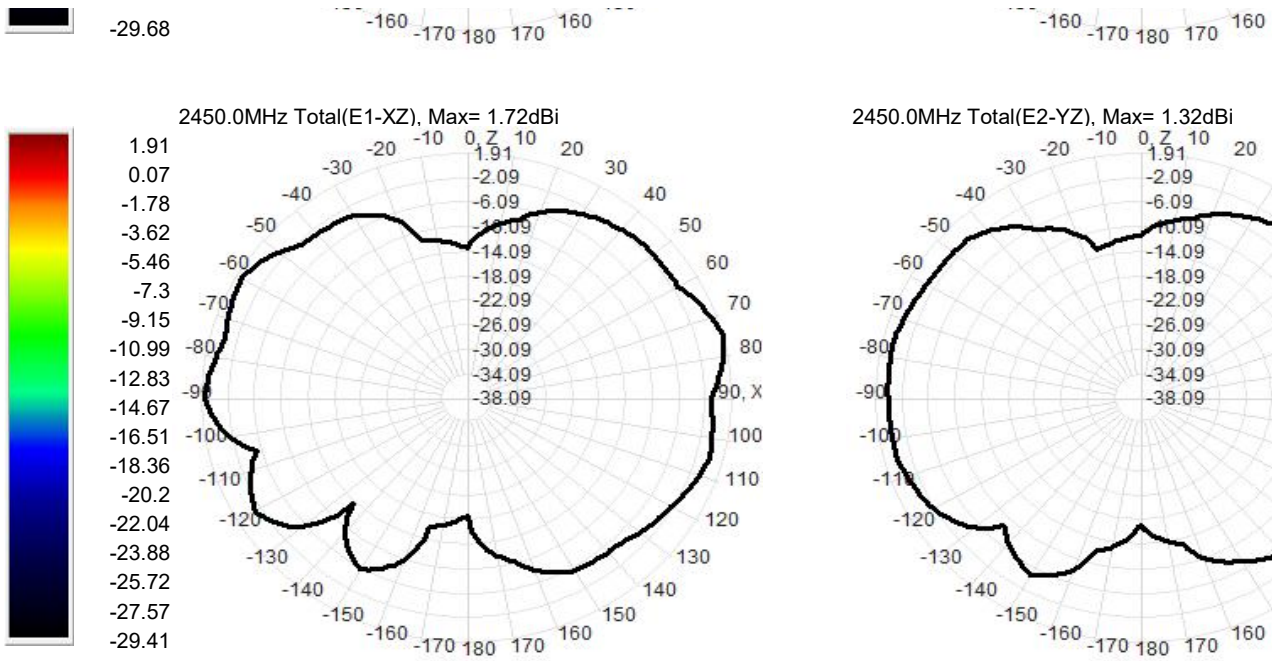

2400.0MHz Total(E1-XZ), Max= 1.20dBi
2400.0MHz Total(E2-YZ), Max= 0.72dBi

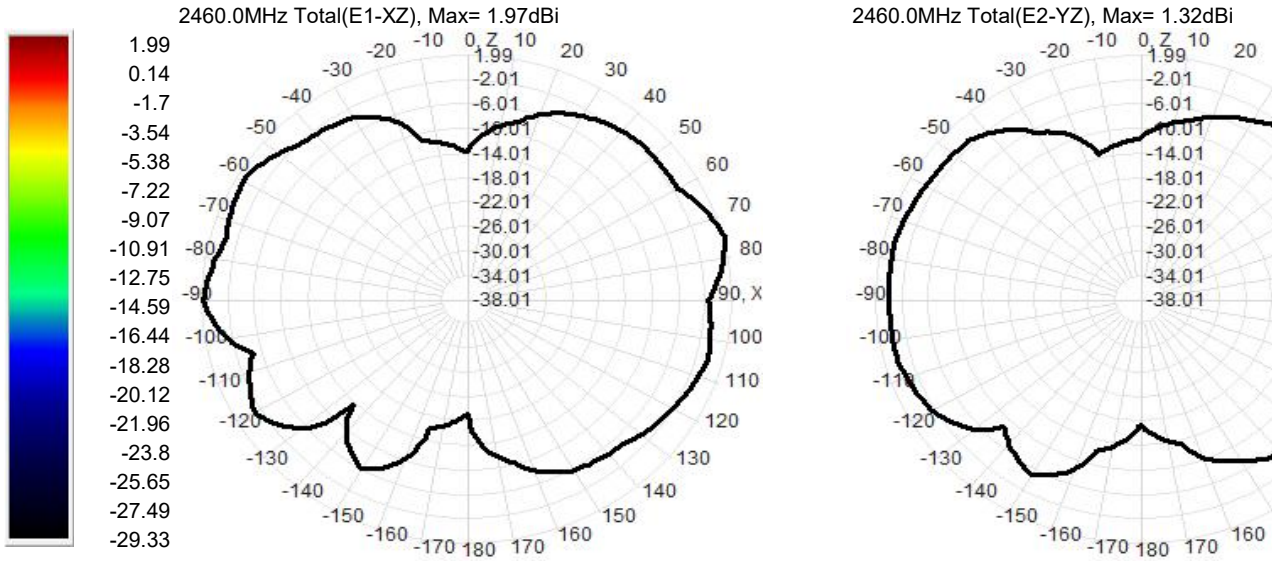

2410.0MHz Total(E1-XZ), Max= 1.16dBi
2410.0MHz Total(E2-YZ), Max= 0.78dBi

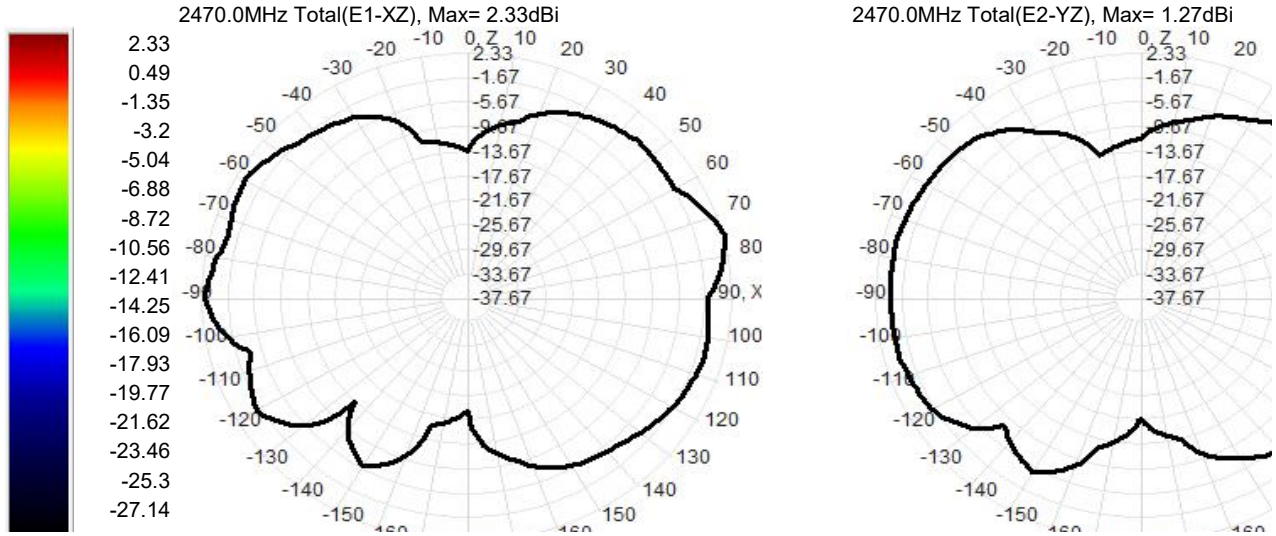

2420.0MHz Total(E1-XZ), Max= 1.38dBi
2420.0MHz Total(E2-YZ), Max= 0.90dBi

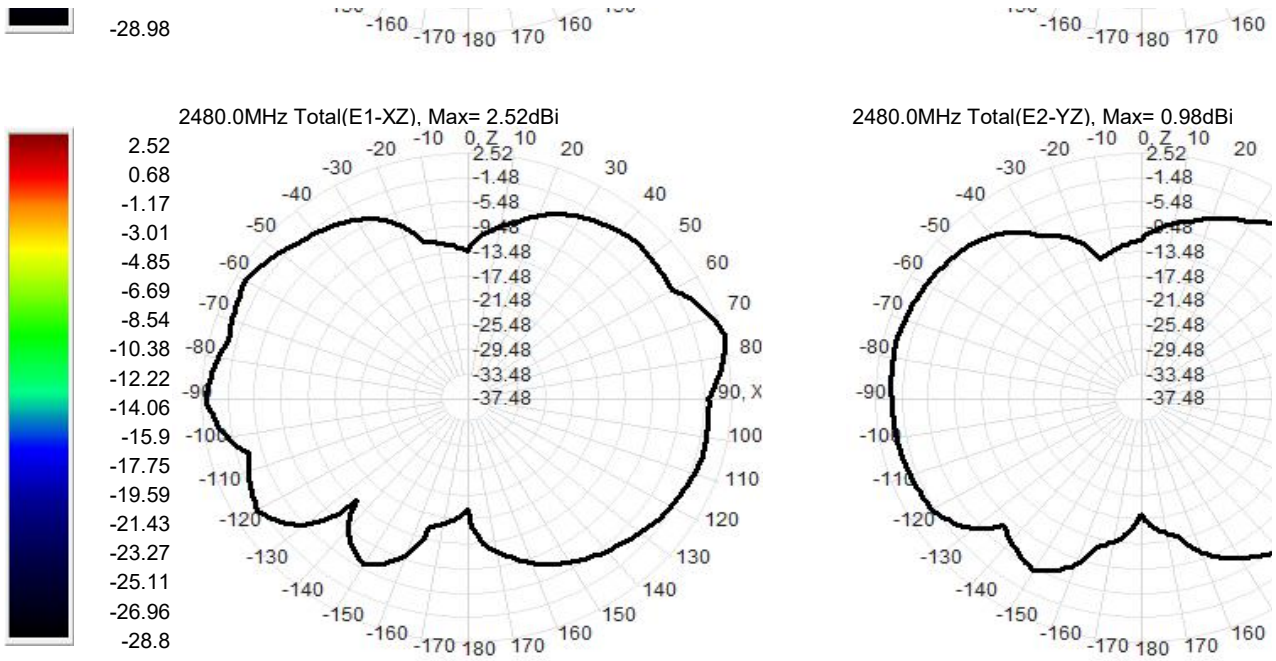

2430.0MHz Total(E1-XZ), Max= 1.40dBi
2430.0MHz Total(E2-YZ), Max= 0.77dBi

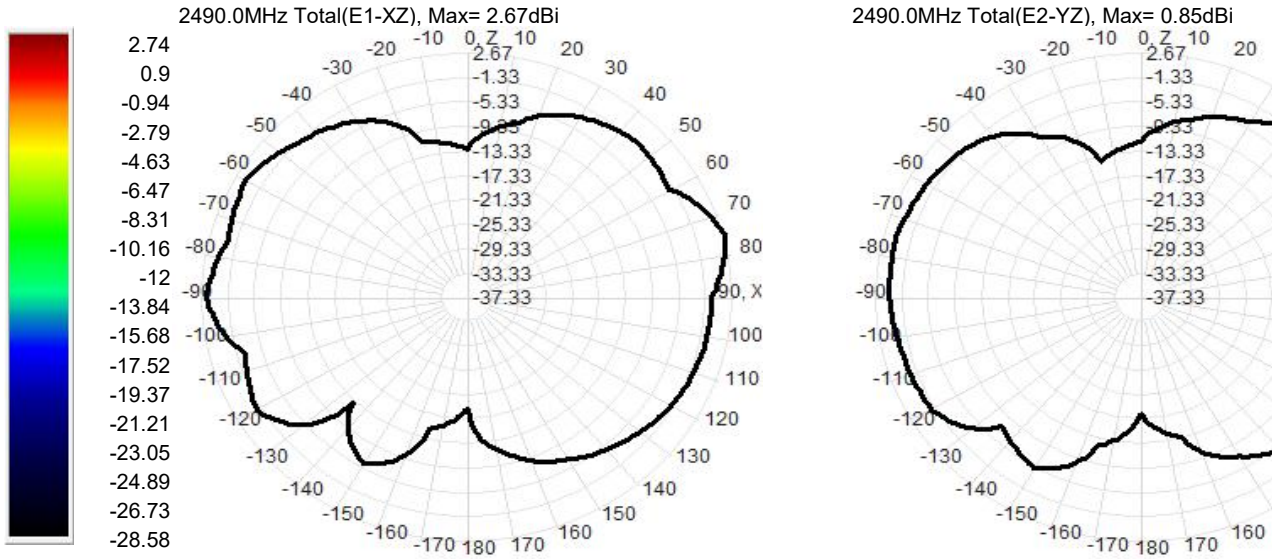

2440.0MHz Total(E1-XZ), Max= 1.53dBi
2440.0MHz Total(E2-YZ), Max= 1.08dBi

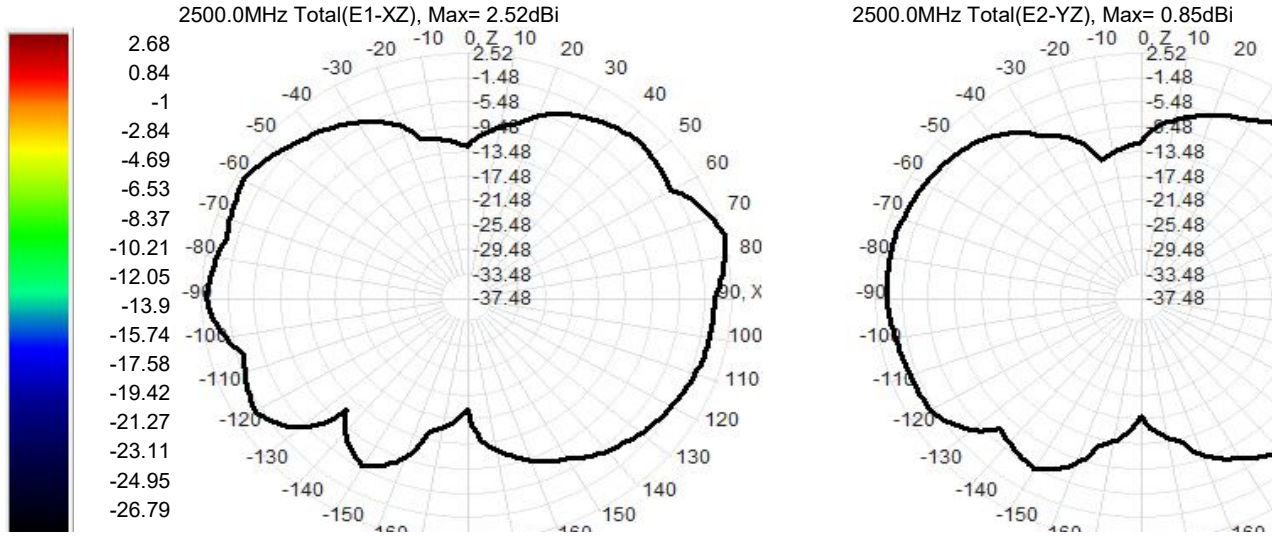

2450.0MHz Total(E1-XZ), Max= 1.72dBi
2450.0MHz Total(E2-YZ), Max= 1.32dBi
1.91
0.07
-1.78
-3.62
-5.46
-7.3
-9.15
-10.99
-12.83
-14.67
-16.51
-18.36
-20.2
-22.04
-23.88
-25.72
-27.57
-29.41
-29.68

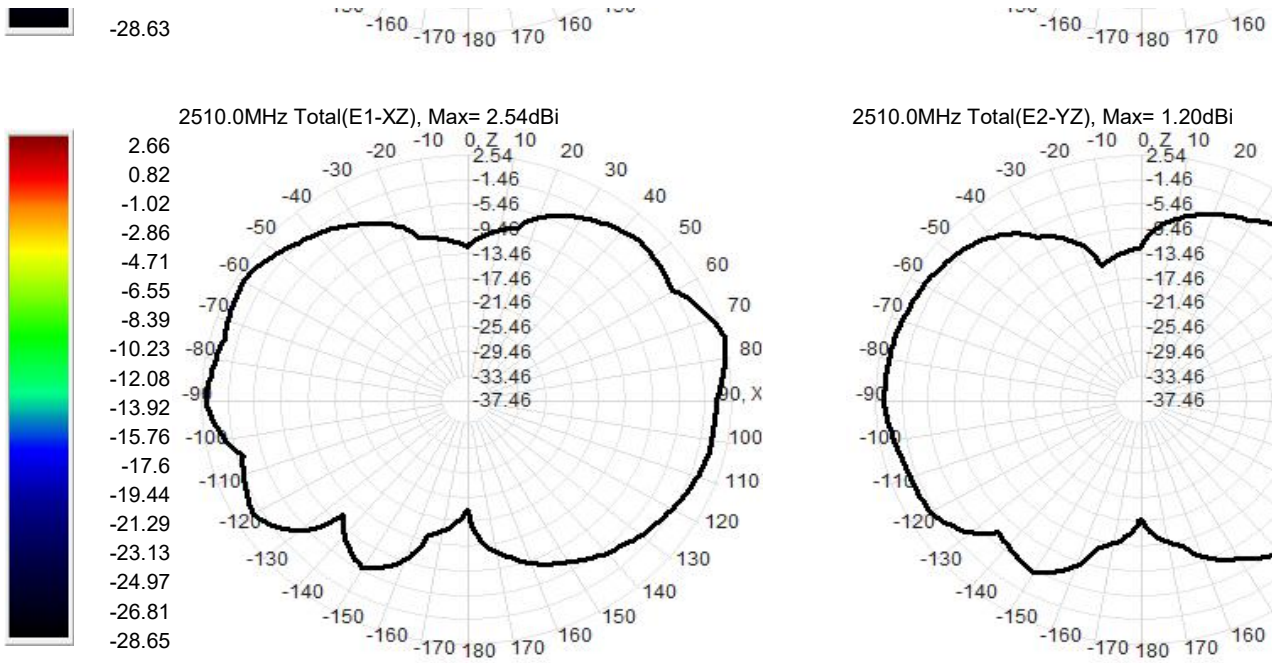

2460.0MHz Total(E1-XZ), Max= 1.97dBi
2460.0MHz Total(E2-YZ), Max= 1.32dBi
1.99
0.14
-1.7
-3.54
-5.38
-7.22
-9.07
-10.91
-12.75
-14.59
-16.44
-18.28
-20.12
-21.96
-23.8
-25.65
-27.49
-29.33

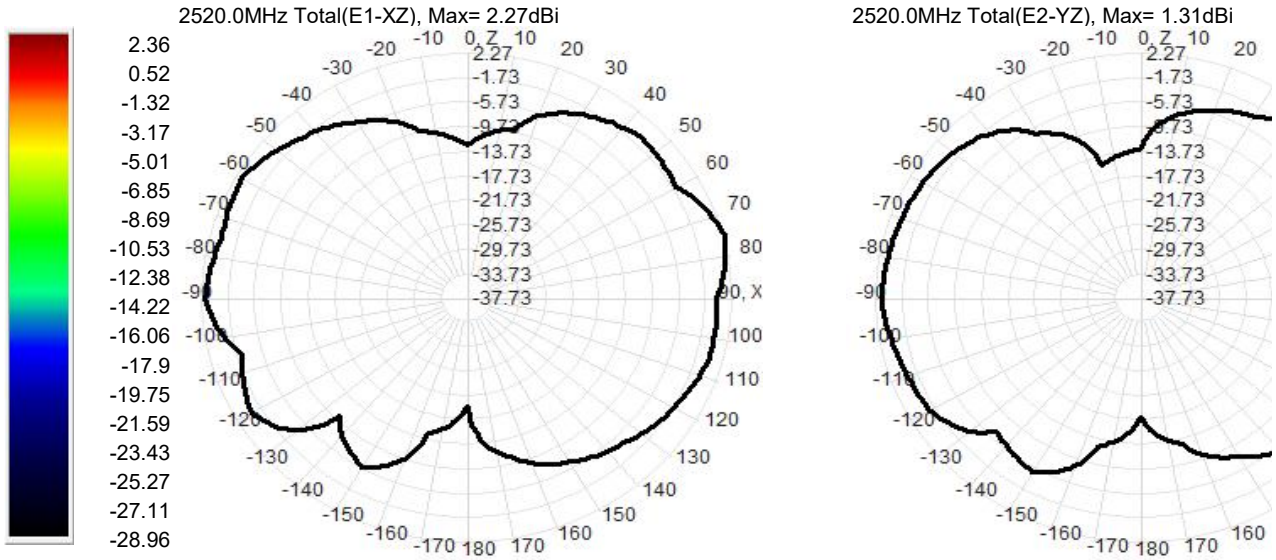

2470.0MHz Total(E1-XZ), Max= 2.33dBi
2470.0MHz Total(E2-YZ), Max= 1.27dBi
2.33
0.49
-1.35
-3.2
-5.04
-6.88
-8.72
-10.56
-12.41
-14.25
-16.09
-17.93
-19.77
-21.62
-23.46
-25.3
-27.14

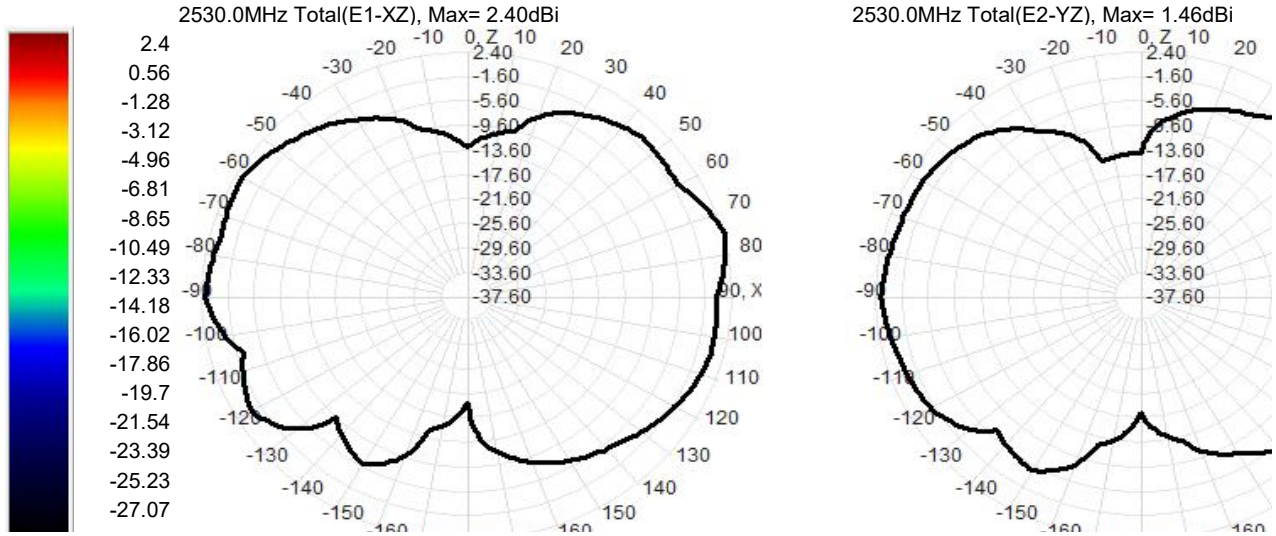

2480.0MHz Total(E1-XZ), Max= 2.52dBi
2480.0MHz Total(E2-YZ), Max= 0.98dBi
2.52
0.68
-1.17
-3.01
-4.85
-6.69
-8.54
-10.38
-12.22
-14.06
-15.9
-17.75
-19.59
-21.43
-23.27
-25.11
-26.96
-28.8

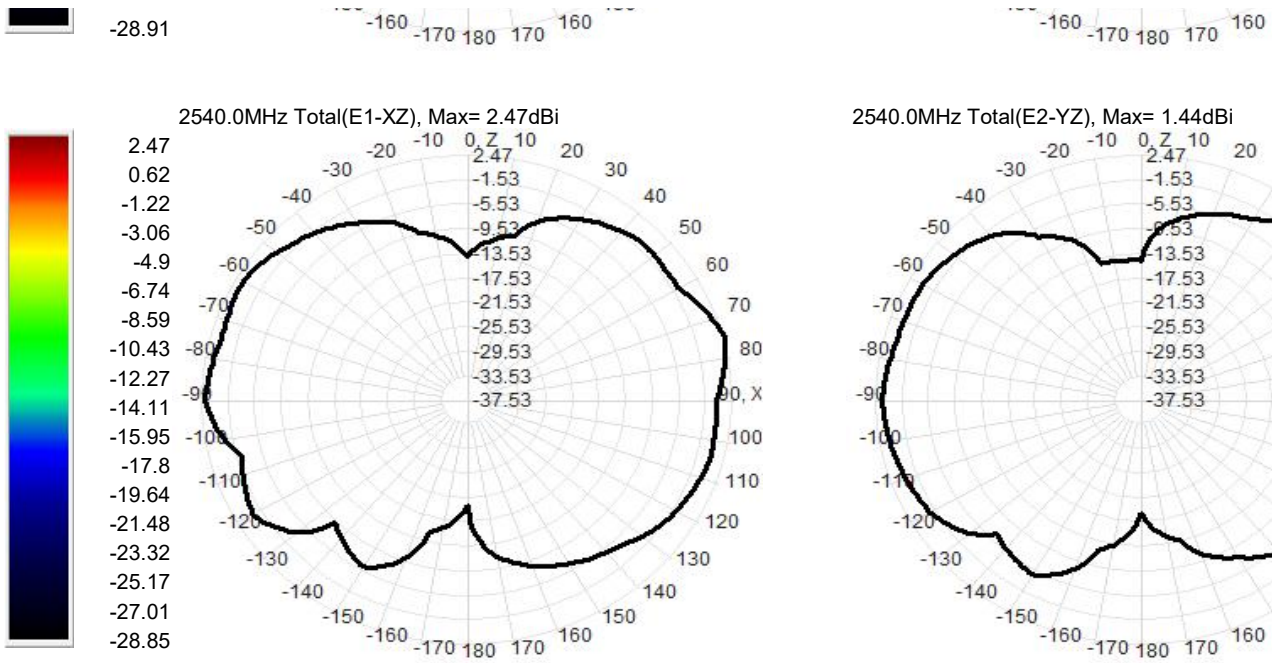

2490.0MHz Total(E1-XZ), Max= 2.67dBi
2490.0MHz Total(E2-YZ), Max= 0.85dBi
2.74
0.9
-0.94
-2.79
-4.63
-6.47
-8.31
-10.16
-12
-13.84
-15.68
-17.52
-19.37
-21.21
-23.05
-24.89
-26.73
-28.58

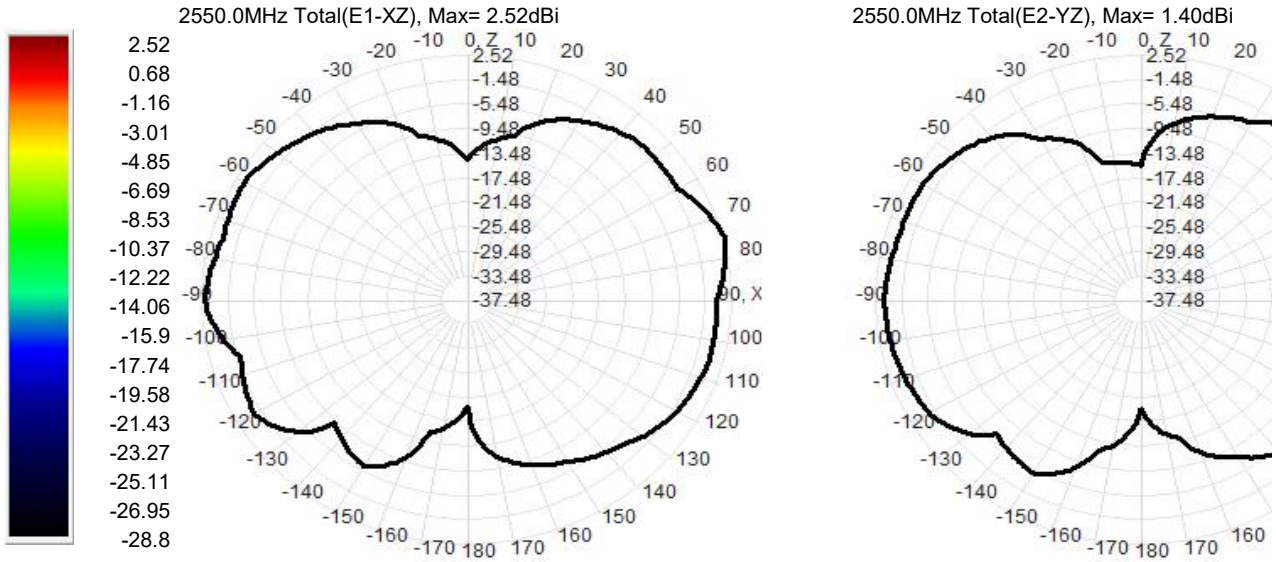

2500.0MHz Total(E1-XZ), Max= 2.52dBi
2500.0MHz Total(E2-YZ), Max= 0.85dBi
2.68
0.84
-1
-2.84
-4.69
-6.53
-8.37
-10.21
-12.05
-13.9
-15.74
-17.58
-19.42
-21.27
-23.11
-24.95
-26.79

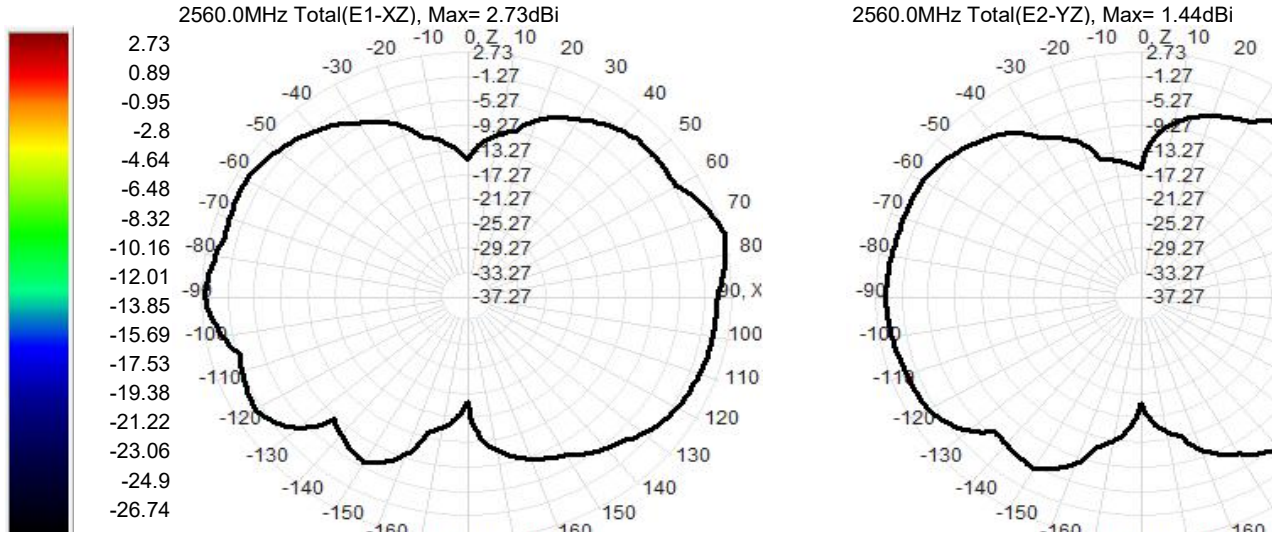

2510.0MHz Total(E1-XZ), Max= 2.54dBi
2510.0MHz Total(E2-YZ), Max= 1.20dBi
2.66
0.82
-1.02
-2.86
-4.71
-6.55
-8.39
-10.23
-12.08
-13.92
-15.76
-17.6
-19.44
-21.29
-23.13
-24.97
-26.81
-28.65

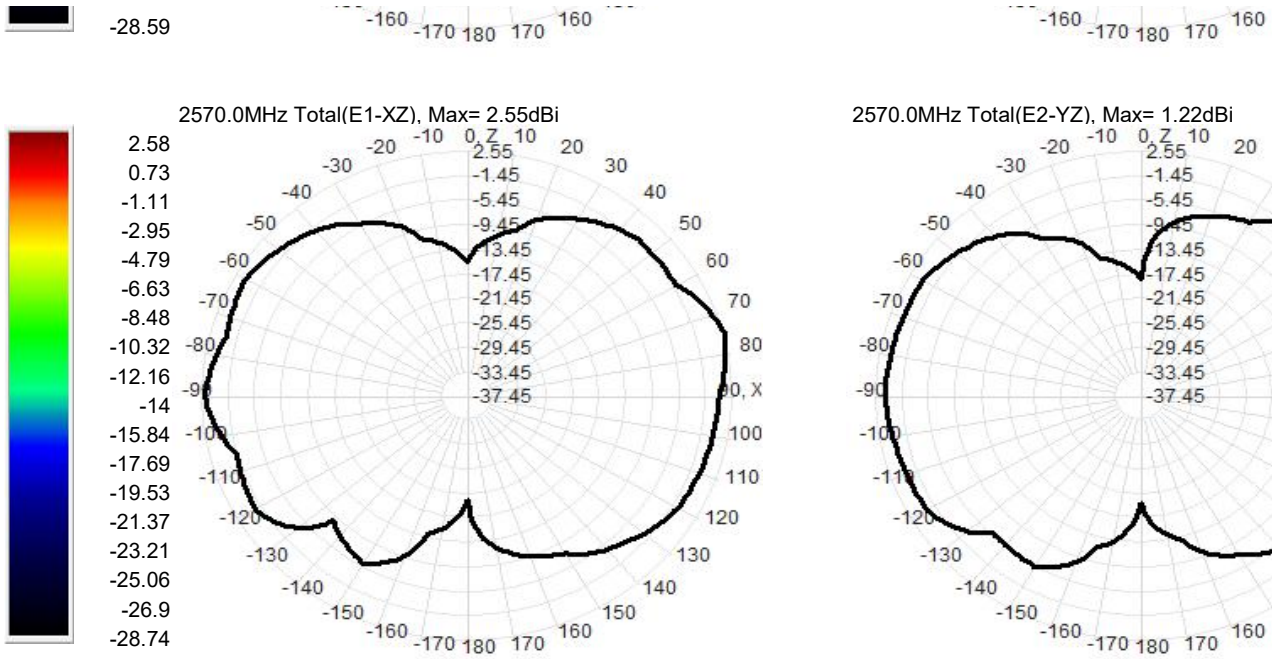

2520.0MHz Total(E1-XZ), Max= 2.27dBi
2520.0MHz Total(E2-YZ), Max= 1.31dBi
2.36
0.52
-1.32
-3.17
-5.01
-6.85
-8.69
-10.53
-12.38
-14.22
-16.06
-17.9
-19.75
-21.59
-23.43
-25.27
-27.11
-28.96

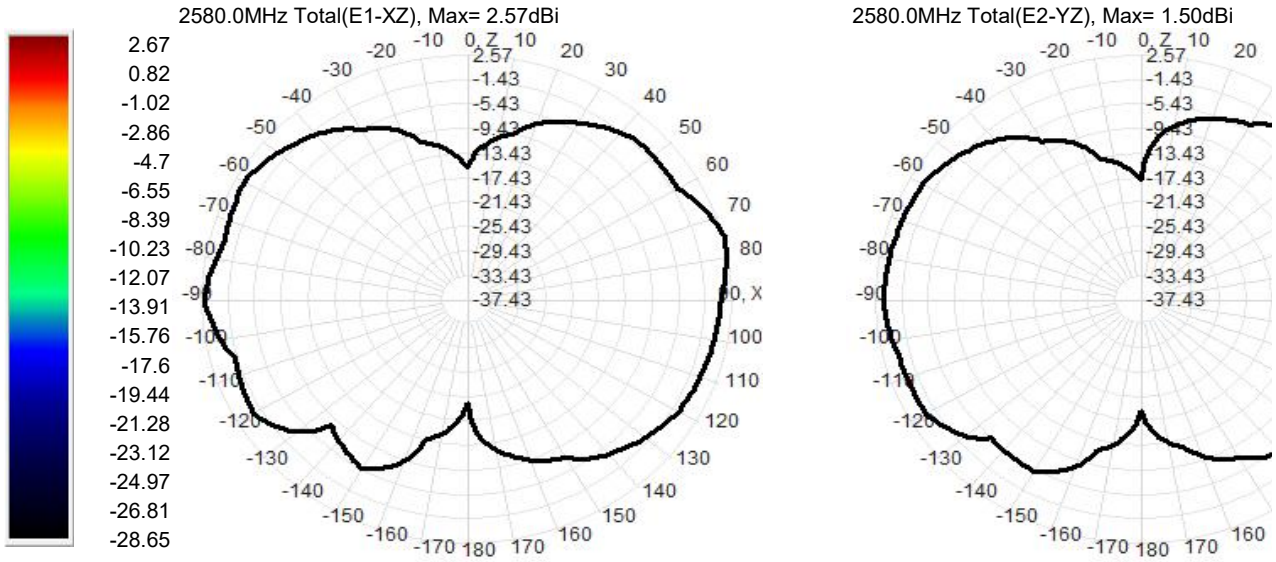

2530.0MHz Total(E1-XZ), Max= 2.40dBi
2530.0MHz Total(E2-YZ), Max= 1.46dBi
2.4
0.56
-1.28
-3.12
-4.96
-6.81
-8.65
-10.49
-12.33
-14.18
-16.02
-17.86
-19.7
-21.54
-23.39
-25.23
-27.07

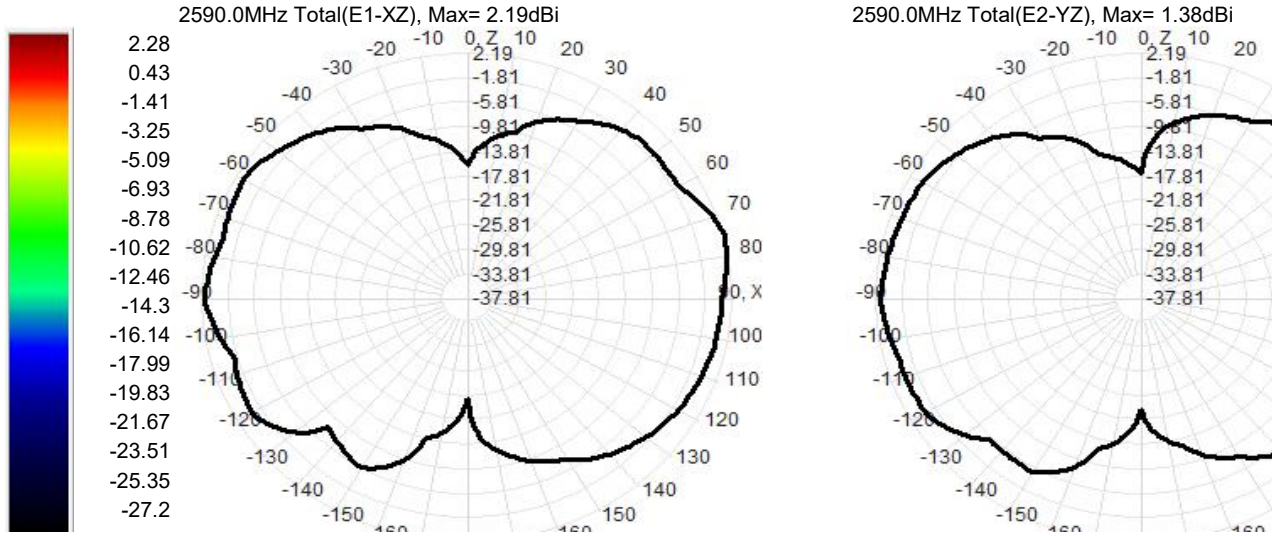

2540.0MHz Total(E1-XZ), Max= 2.47dBi
2540.0MHz Total(E2-YZ), Max= 1.44dBi
2.47
0.62
-1.22
-3.06
-4.9
-6.74
-8.59
-10.43
-12.27
-14.11
-15.95
-17.8
-19.64
-21.48
-23.32
-25.17
-27.01
-28.85

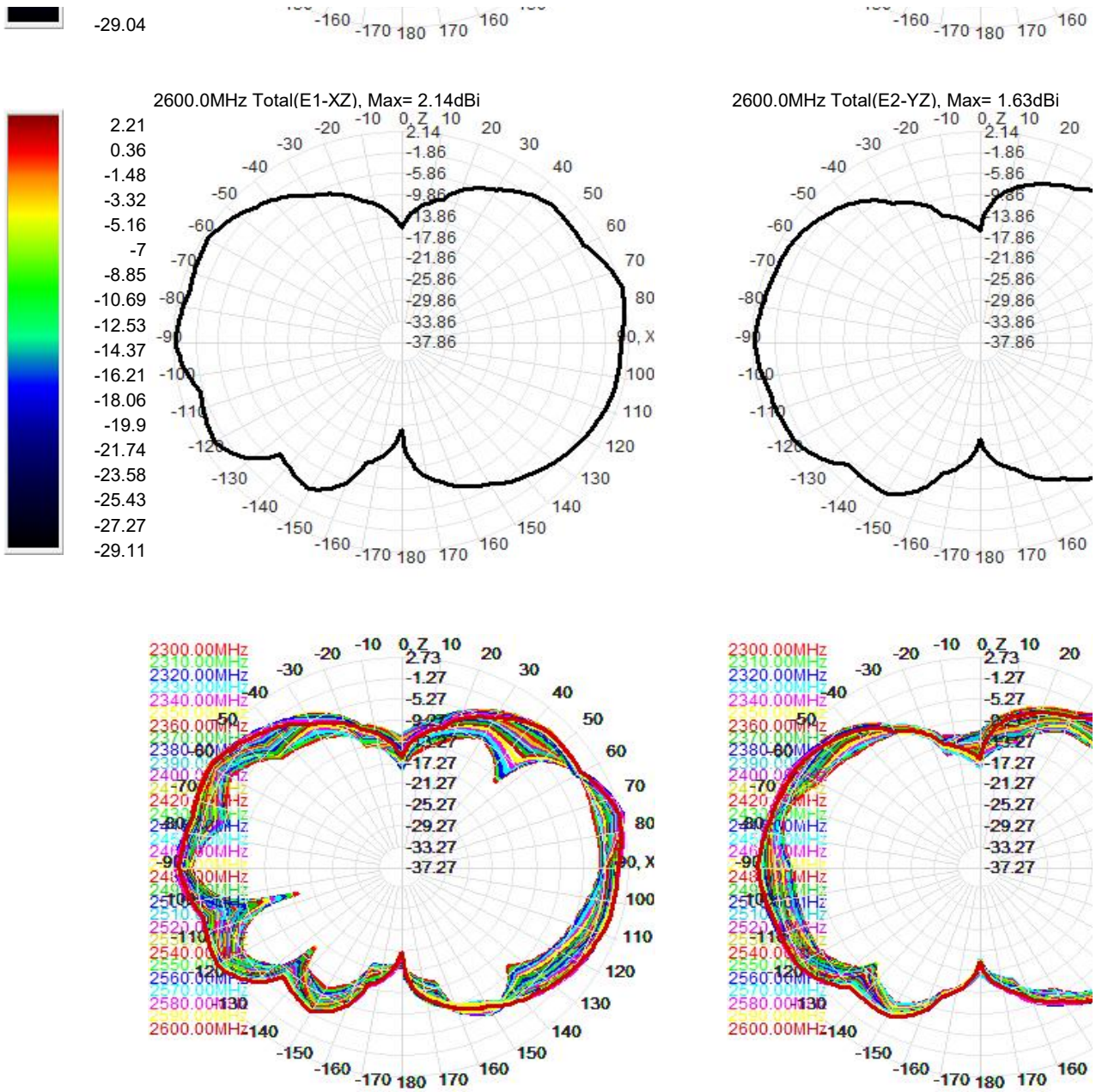

2550.0MHz Total(E1-XZ), Max= 2.52dBi
2550.0MHz Total(E2-YZ), Max= 1.40dBi
2.52
0.68
-1.16
-3.01
-4.85
-6.69
-8.53
-10.37
-12.22
-14.06
-15.9
-17.74
-19.58
-21.43
-23.27
-25.11
-26.95
-28.8


2560.0MHz Total(E1-XZ), Max= 2.73dBi
2560.0MHz Total(E2-YZ), Max= 1.44dBi
2.73
0.89
-0.95
-2.8
-4.64
-6.48
-8.32
-10.16
-12.01
-13.85
-15.69
-17.53
-19.38
-21.22
-23.06
-24.9
-26.74

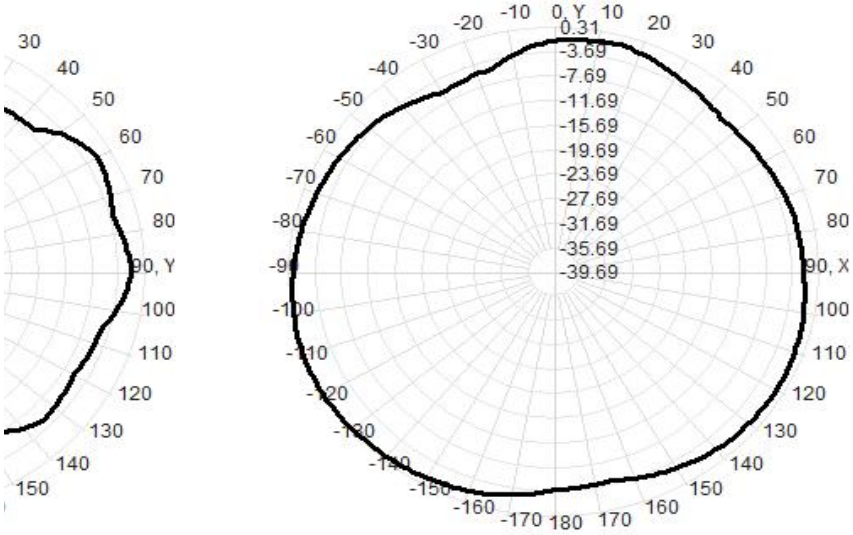

2570.0MHz Total(E1-XZ), Max= 2.55dBi
2.58
0.73
-1.11
-2.95
-4.79
-6.63
-8.48
-10.32
-12.16
-14
-15.84
-17.69
-19.53
-21.37
-23.21
-25.06
-26.9
-28.74
2570.0MHz Total(E2-YZ), Max= 1.22dBi


2580.0MHz Total(E1-XZ), Max= 2.57dBi
2.67
0.82
-1.02
-2.86
-4.7
-6.55
-8.39
-10.23
-12.07
-13.91
-15.76
-17.6
-19.44
-21.28
-23.12
-24.97
-26.81
-28.65
2580.0MHz Total(E2-YZ), Max= 1.50dBi

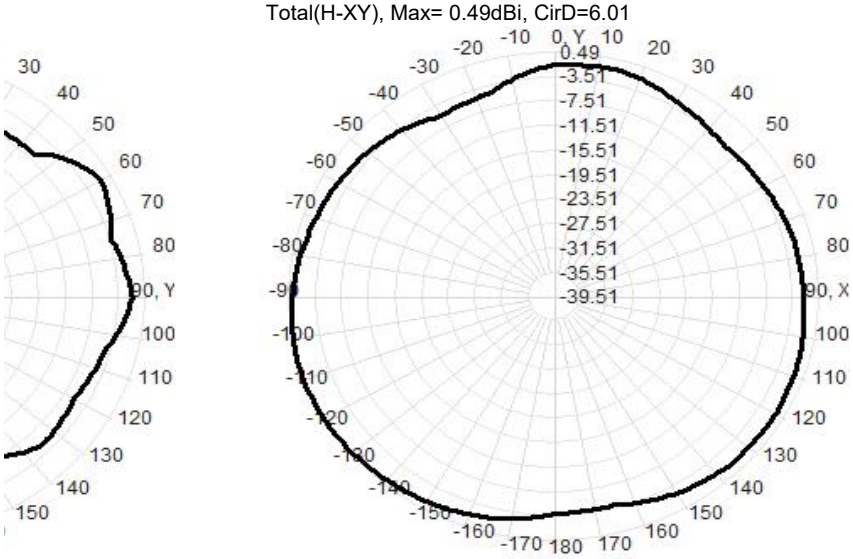

2590.0MHz Total(E1-XZ), Max= 2.19dBi
2.28
0.43
-1.41
-3.25
-5.09
-6.93
-8.78
-10.62
-12.46
-14.3
-16.14
-17.99
-19.83
-21.67
-23.51
-25.35
-27.2
2590.0MHz Total(E2-YZ), Max= 1.38dBi


2600.0MHz Total(E1-XZ), Max= 2.14dBi
2600.0MHz Total(E2-YZ), Max= 1.63dBi
2.21
0.36
-1.48
-3.32
-5.16
-7
-8.85
-10.69
-12.53
-14.37
-16.21
-18.06
-19.9
-21.74
-23.58
-25.43
-27.27
-29.11
-29.04
2300.00MHz
2320.00MHz
2340.00MHz
2360.00MHz
2380.00MHz
2600.00MHz

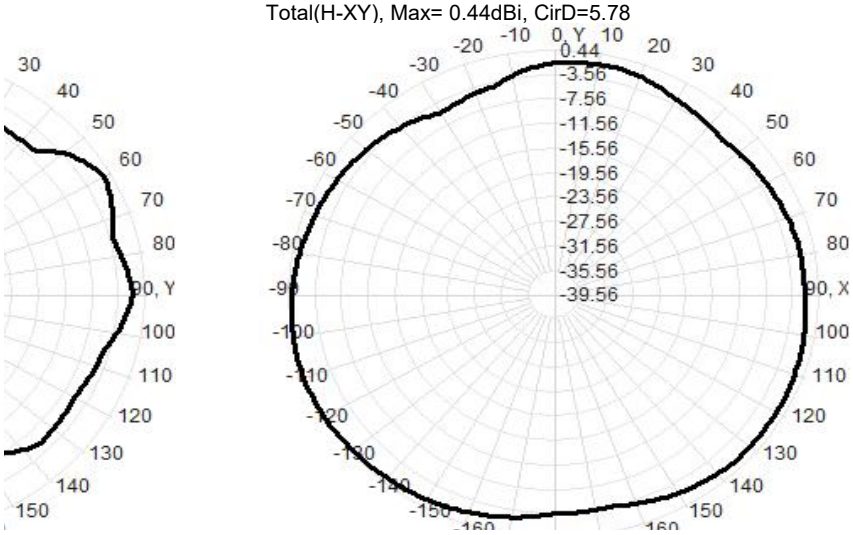
Total(H-XY), Max= 0.31dBi, CirD=6.27



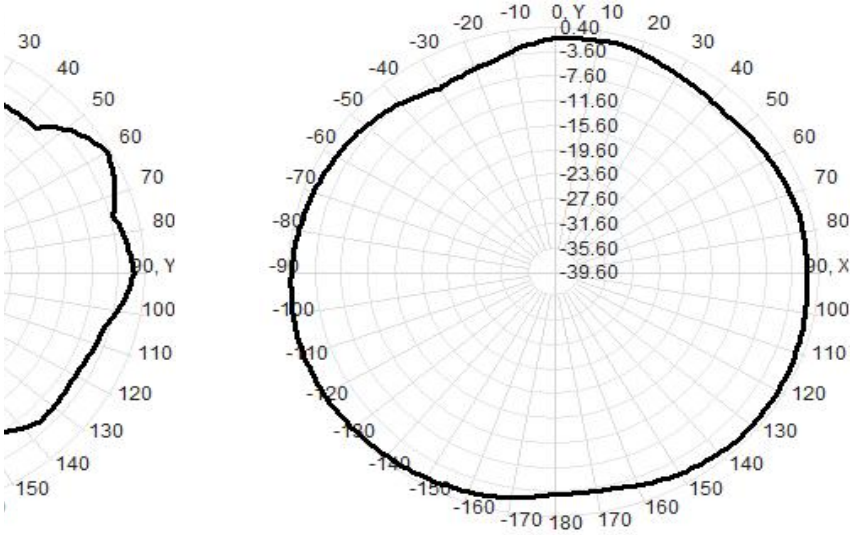
Total(H-XY), Max= 0.49dBi, CirD=6.01



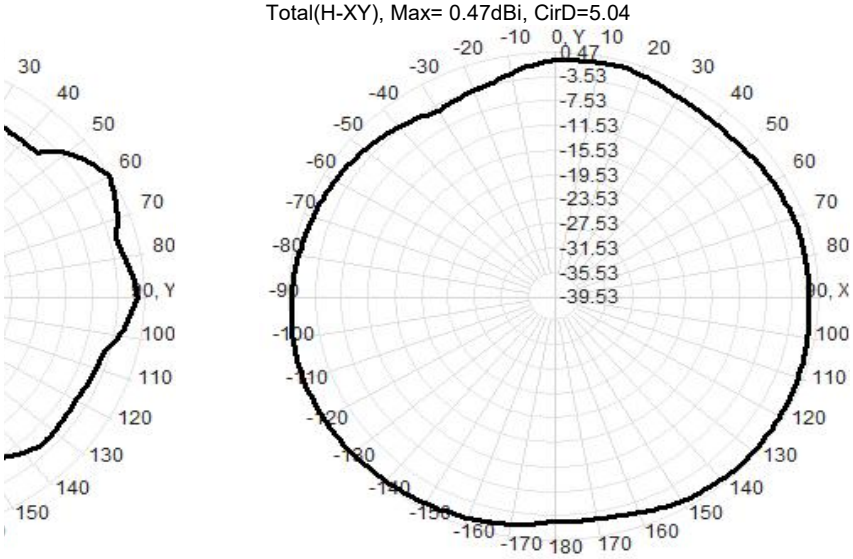
Total(H-XY), Max= 0.44dBi, CirD=5.78



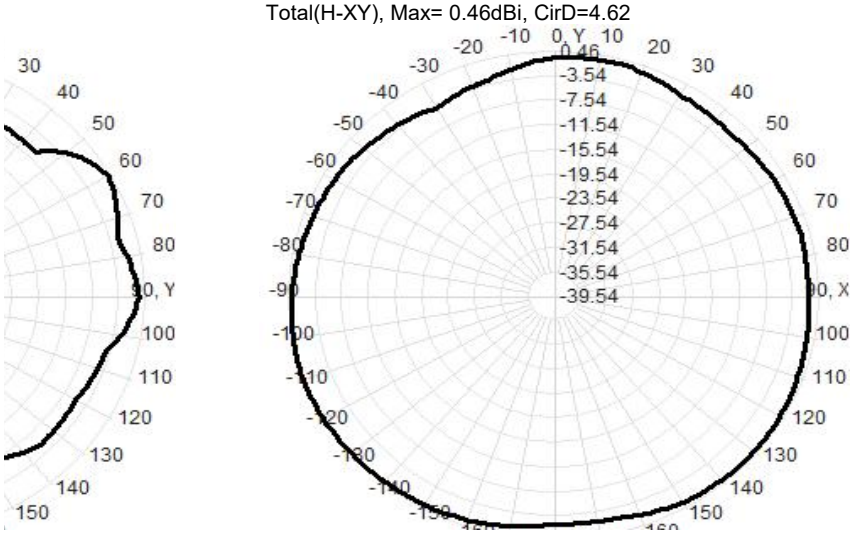
Total(H-XY), Max= 0.40dBi, CirD=5.54

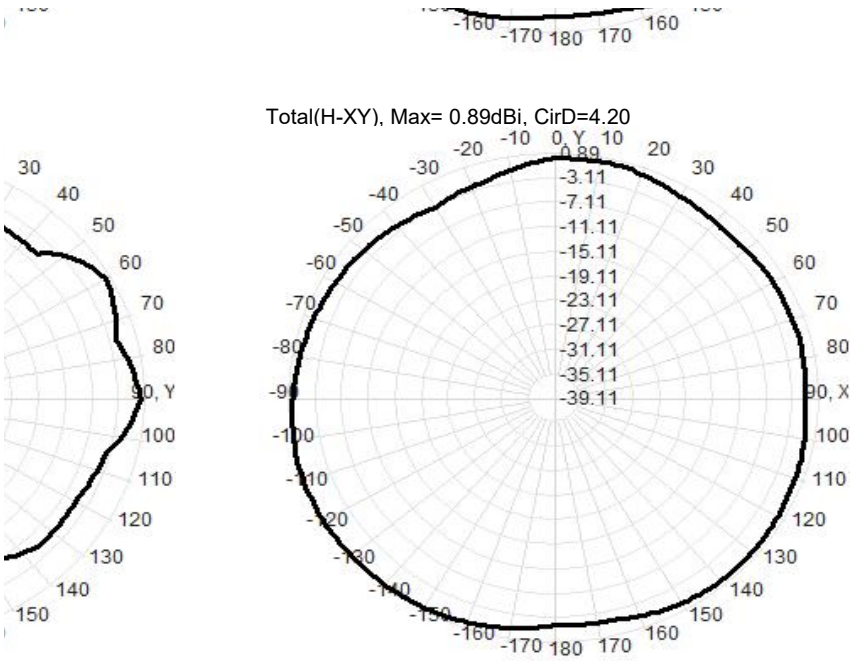


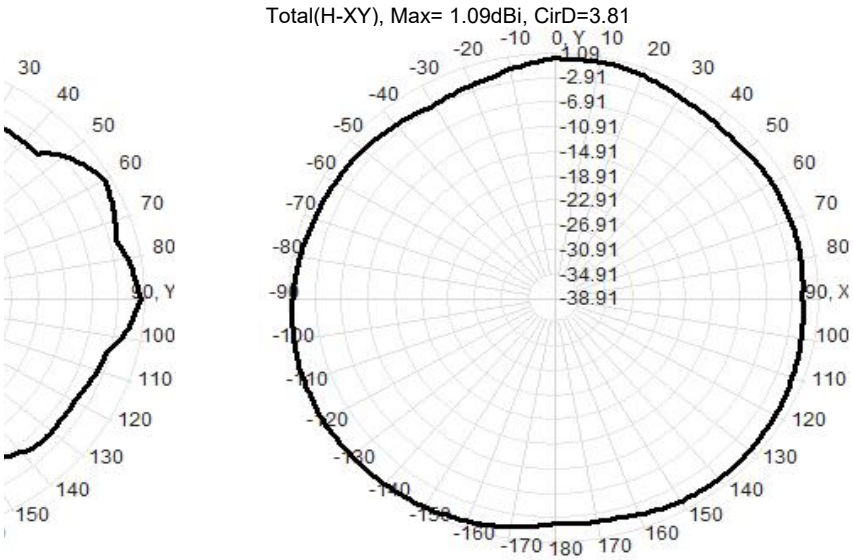
Total(H-XY), Max= 0.47dBi, CirD=5.04

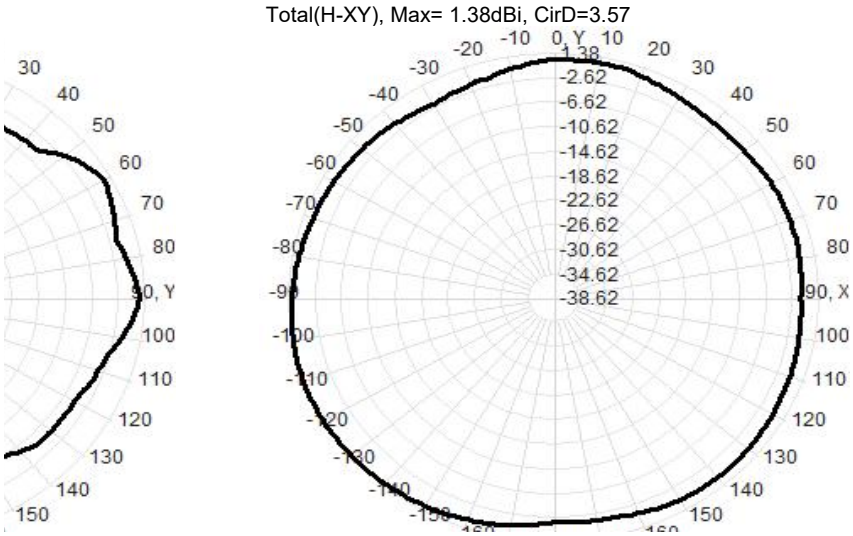


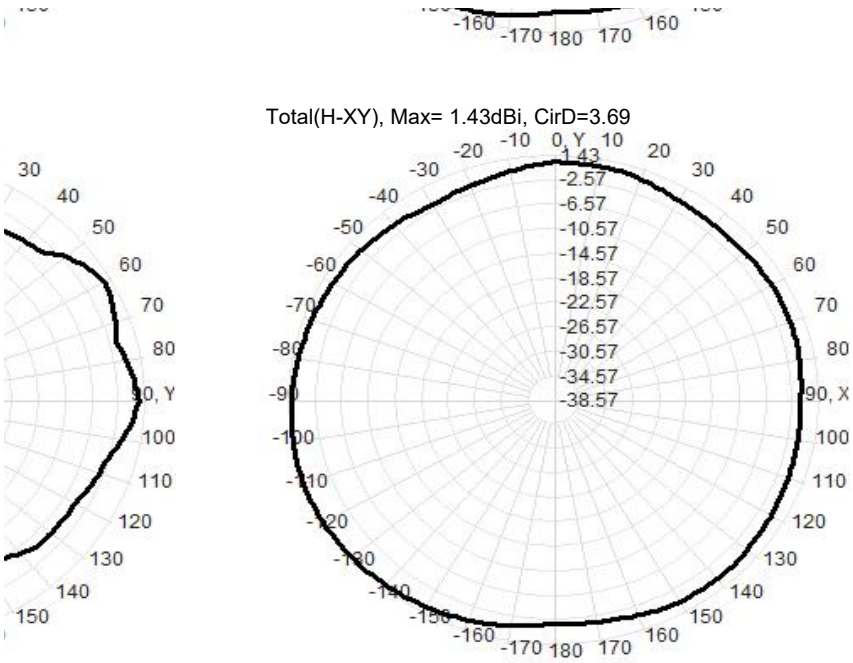
Total(H-XY), Max= 0.46dBi, CirD=4.62

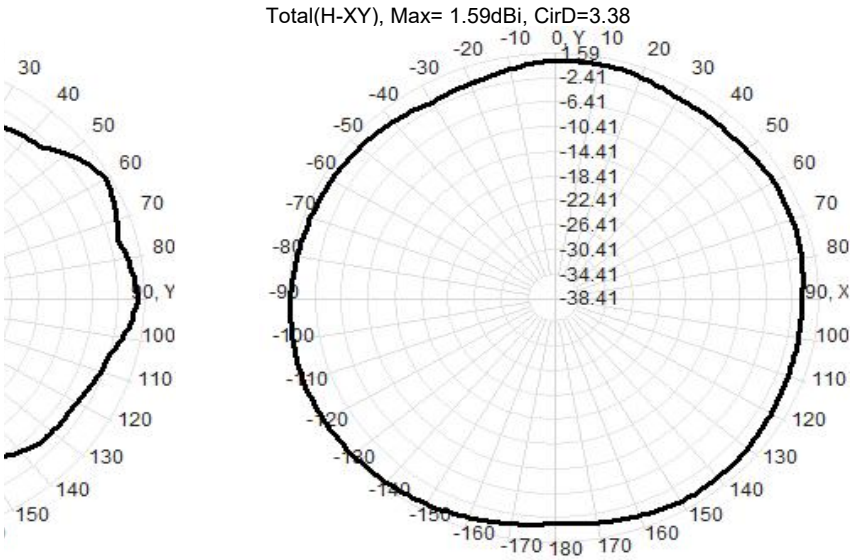


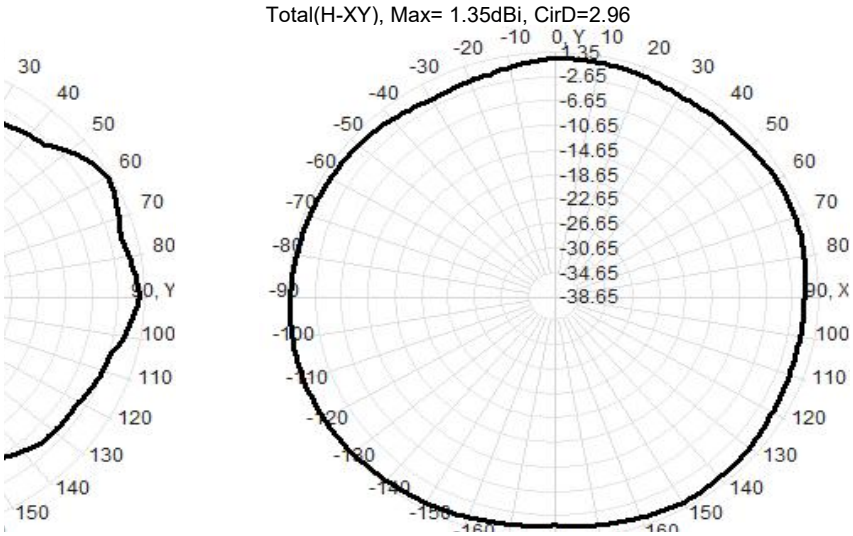

Total(H-XY), Max= 0.89dBi, CirD=4.20
0.89
-3.11
-7.11
-11.11
-15.11
-19.11
-23.11
-27.11
-31.11
-35.11
-39.11
0, Y
90, X


Total(H-XY), Max= 1.09dBi, CirD=3.81
1.09
-2.91
-6.91
-10.91
-14.91
-18.91
-22.91
-26.91
-30.91
-34.91
-38.91
0, Y
90, X

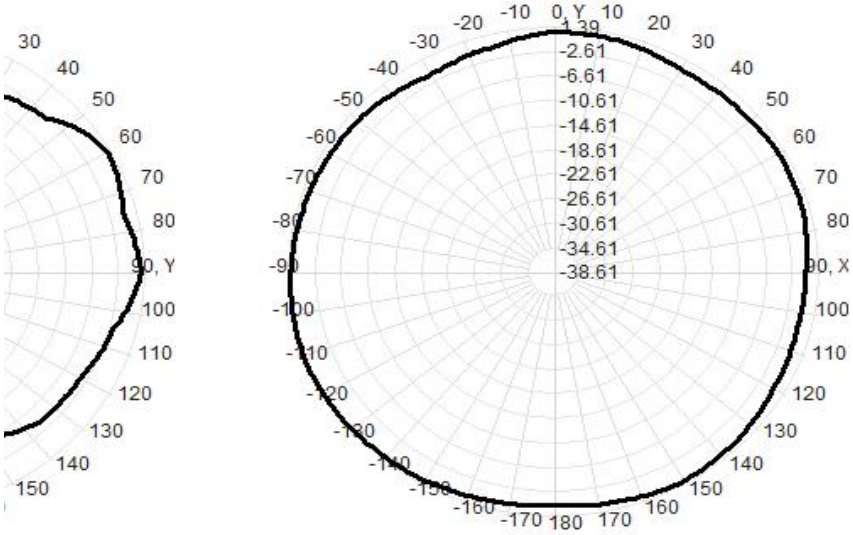

Total(H-XY), Max= 1.38dBi, CirD=3.57
1.38
-2.62
-6.62
-10.62
-14.62
-18.62
-22.62
-26.62
-30.62
-34.62
-38.62
0, Y
90, X


Total(H-XY), Max= 1.43dBi, CirD=3.69
1.43
-2.57
-6.57
-10.57
-14.57
-18.57
-22.57
-26.57
-30.57
-34.57
-38.57
0, Y
90, X

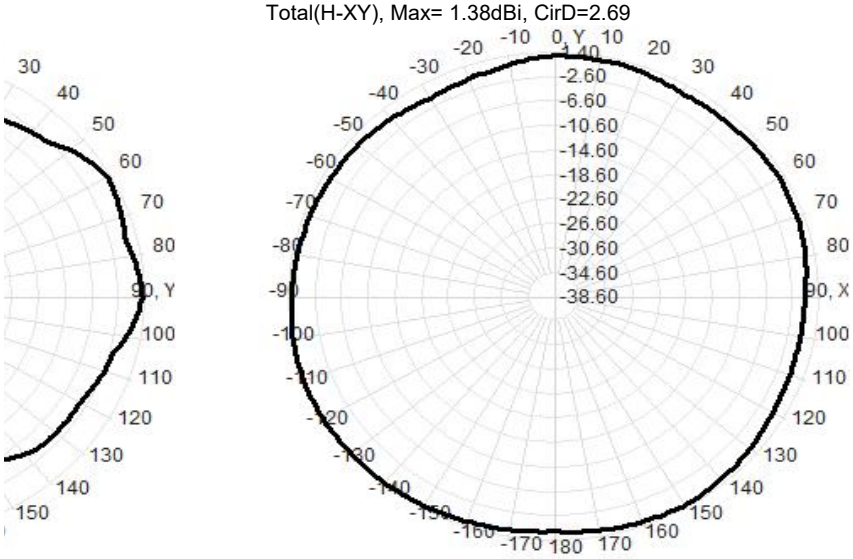

Total(H-XY), Max= 1.59dBi, CirD=3.38
1.59
-2.41
-6.41
-10.41
-14.41
-18.41
-22.41
-26.41
-30.41
-34.41
-38.41
0, Y
90, X


Total(H-XY), Max= 1.35dBi, CirD=2.96
1.35
-2.65
-6.65
-10.65
-14.65
-18.65
-22.65
-26.65
-30.65
-34.65
-38.65
0, Y
90, X

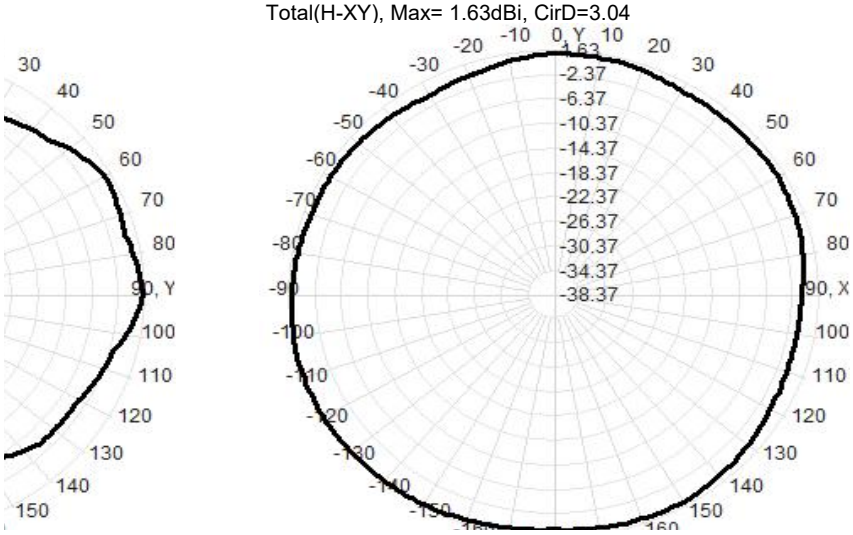
Total(H-XY), Max= 1.39dBi, CirD=2.86

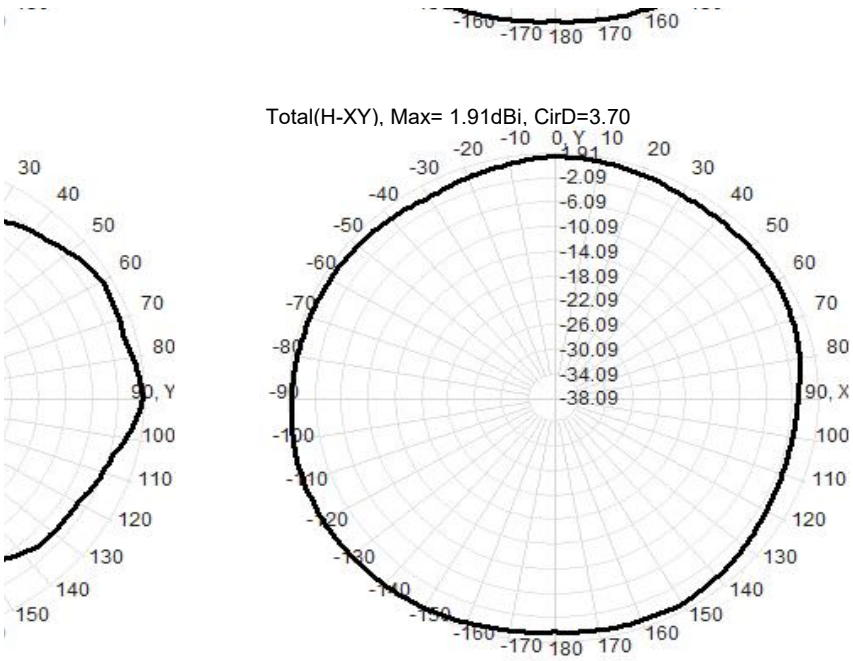


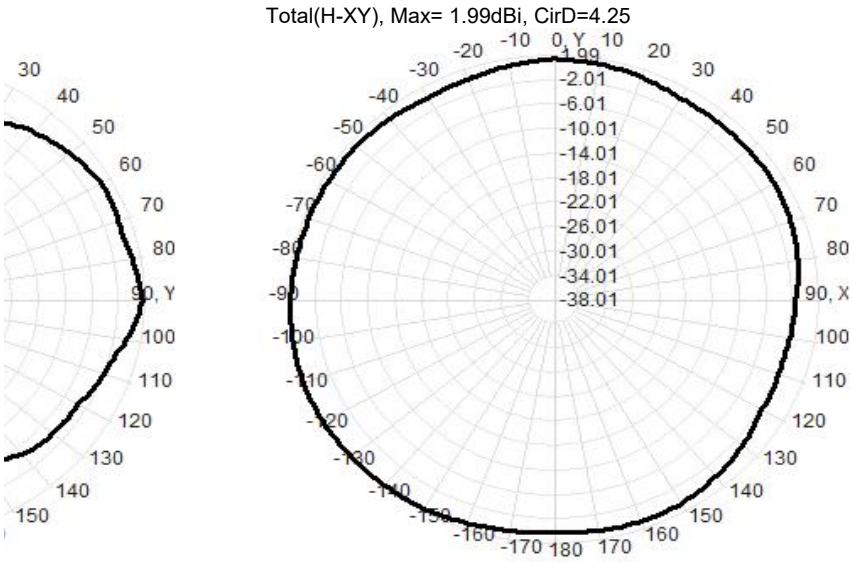
Total(H-XY), Max= 1.38dBi, CirD=2.69

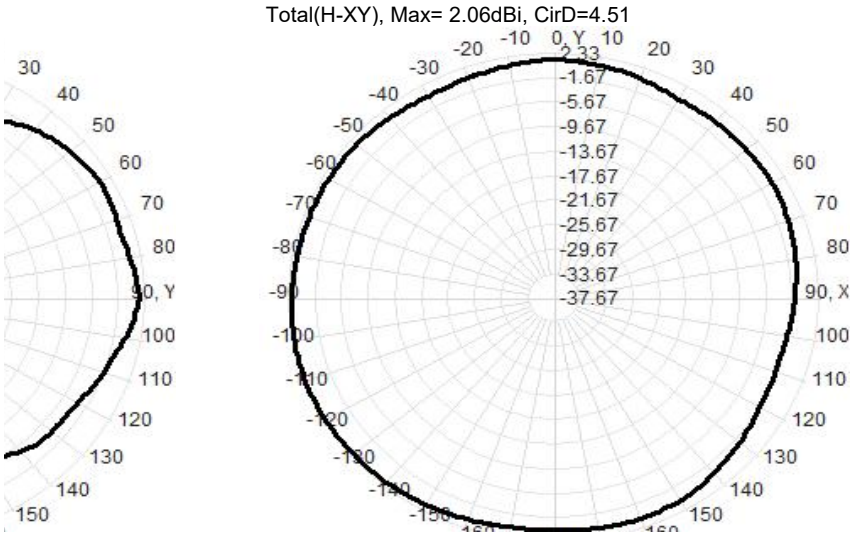


Total(H-XY), Max= 1.63dBi, CirD=3.04

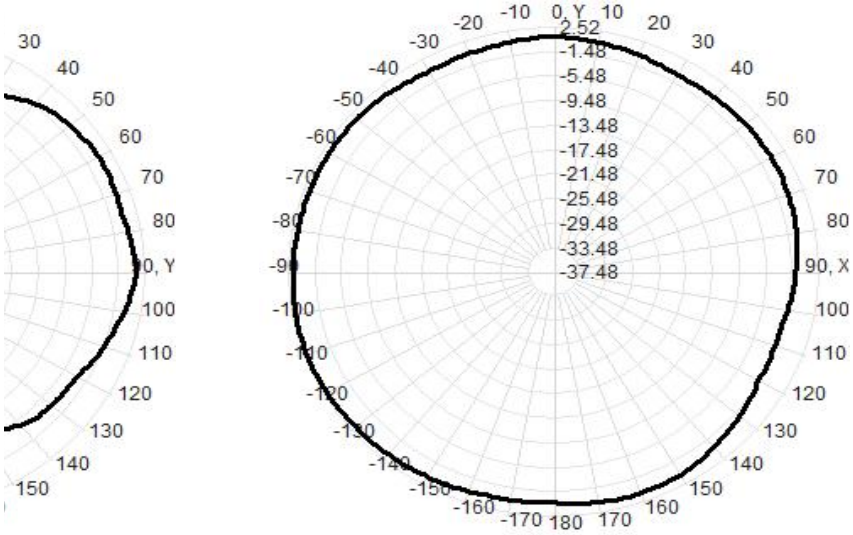



Total(H-XY), Max= 1.91dBi, CirD=3.70
-2.09
-6.09
-10.09
-14.09
-18.09
-22.09
-26.09
-30.09
-34.09
-38.09
90, Y
90, X

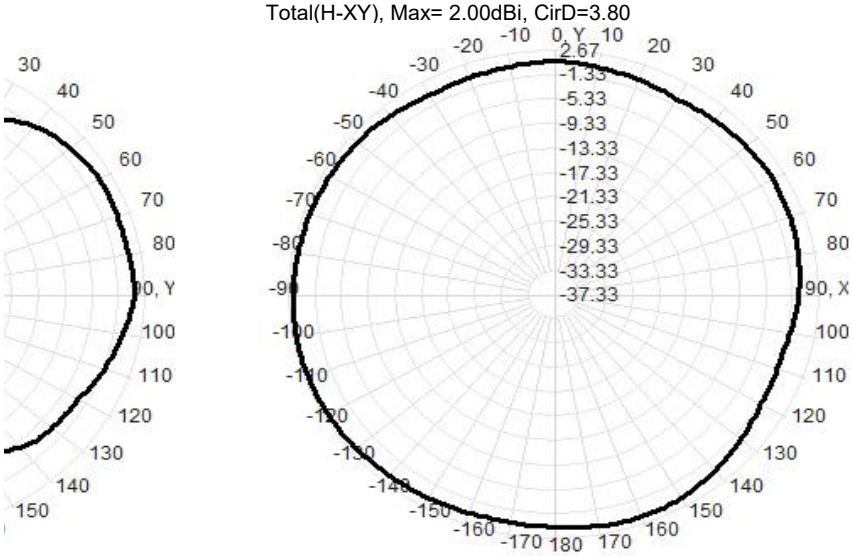

Total(H-XY), Max= 1.99dBi, CirD=4.25
-2.01
-6.01
-10.01
-14.01
-18.01
-22.01
-26.01
-30.01
-34.01
-38.01
90, Y
90, X


Total(H-XY), Max= 2.06dBi, CirD=4.51
-1.67
-5.67
-9.67
-13.67
-17.67
-21.67
-25.67
-29.67
-33.67
-37.67
90, Y
90, X

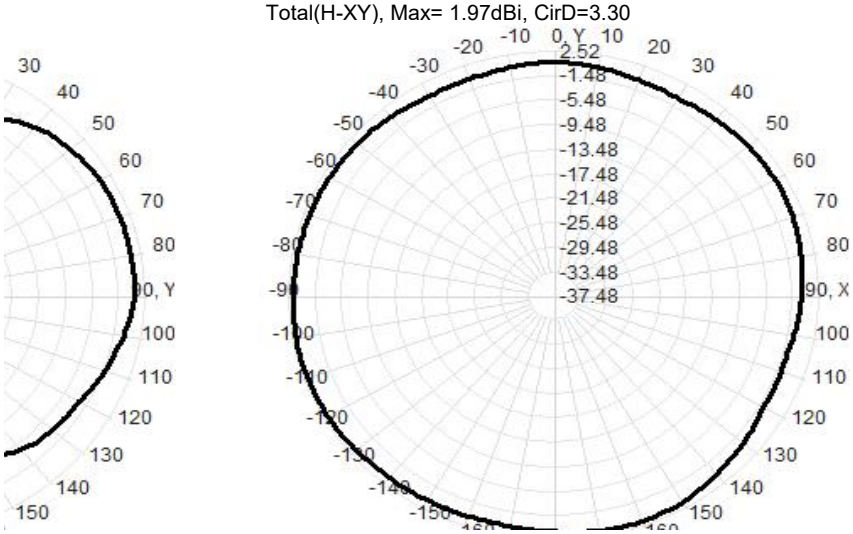
Total(H-XY), Max= 2.02dBi, CirD=4.31



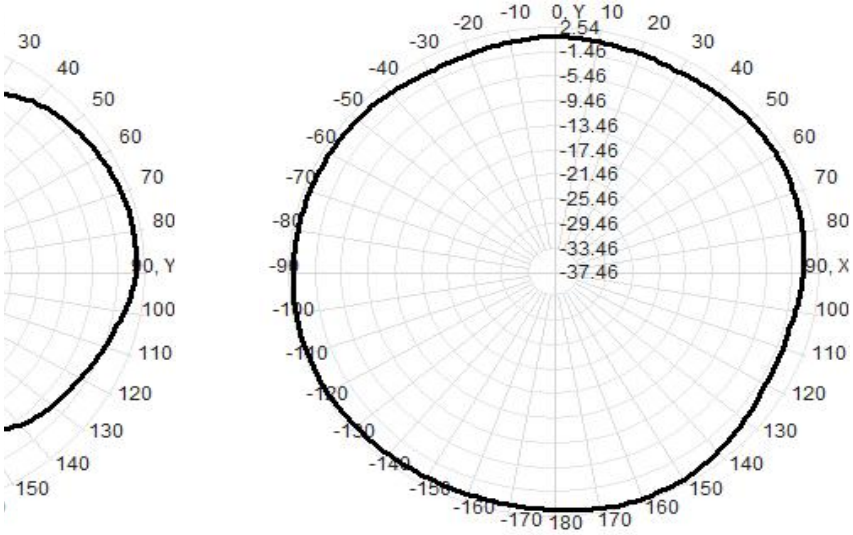
Total(H-XY), Max= 2.00dBi, CirD=3.80



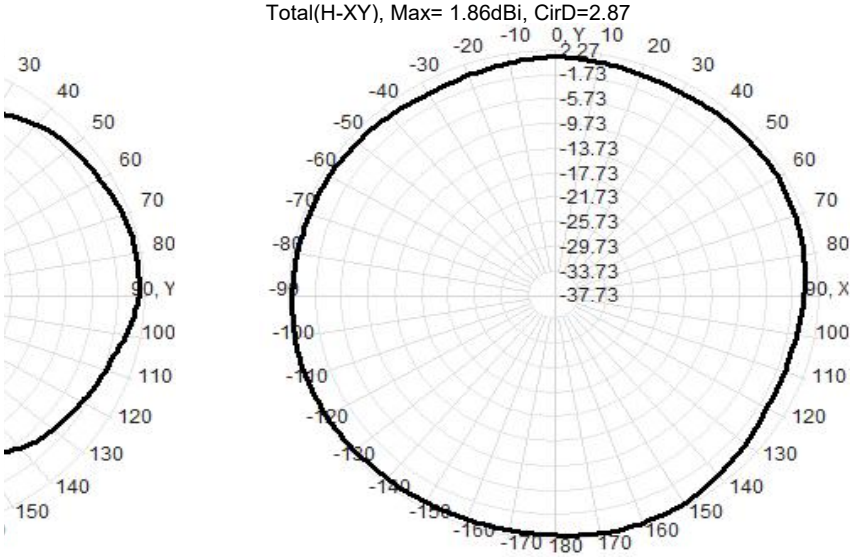
Total(H-XY), Max= 1.97dBi, CirD=3.30



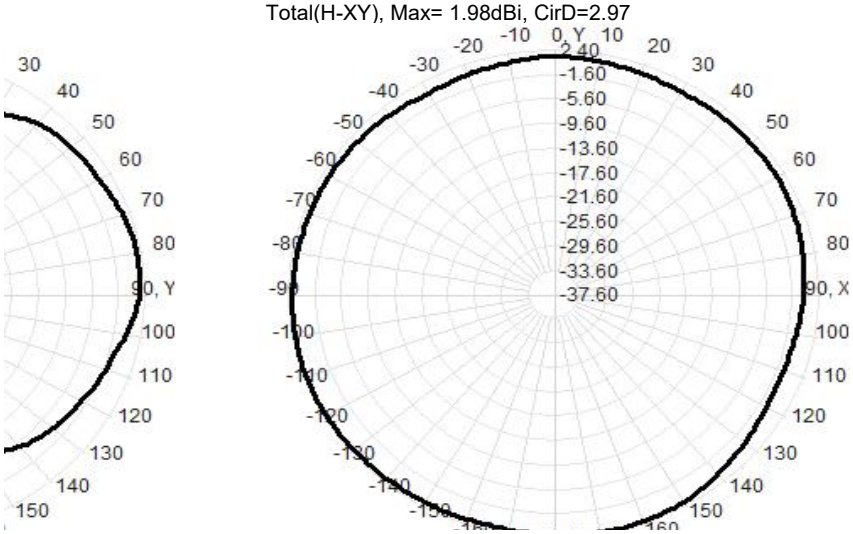
Total(H-XY), Max= 1.97dBi, CirD=2.98



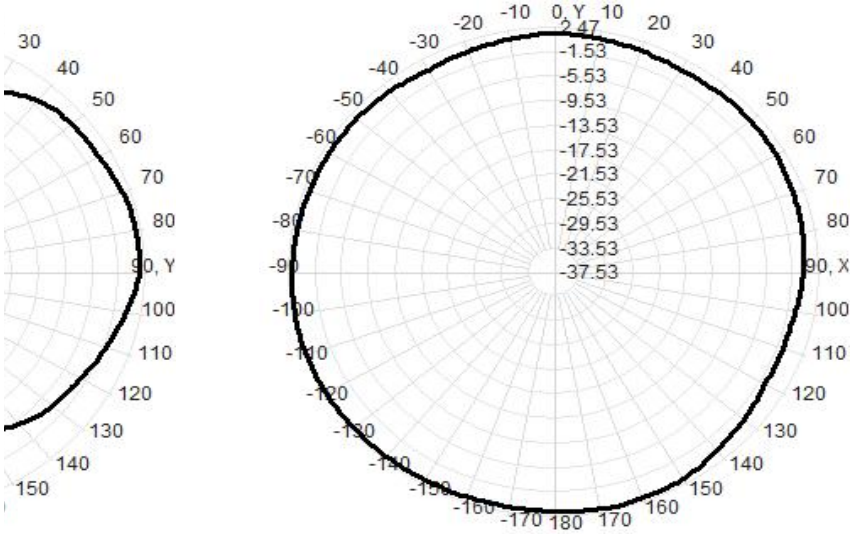
Total(H-XY), Max= 1.86dBi, CirD=2.87



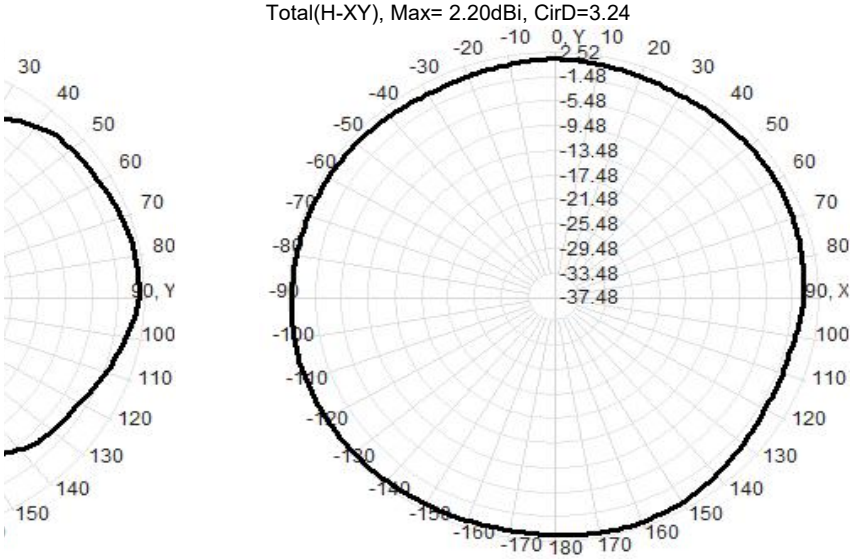
Total(H-XY), Max= 1.98dBi, CirD=2.97



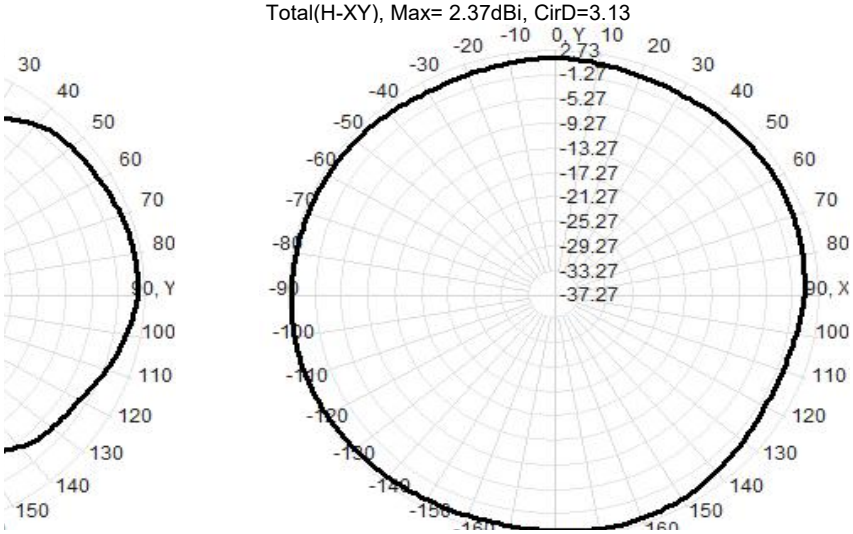
Total(H-XY), Max= 2.09dBi, CirD=3.13

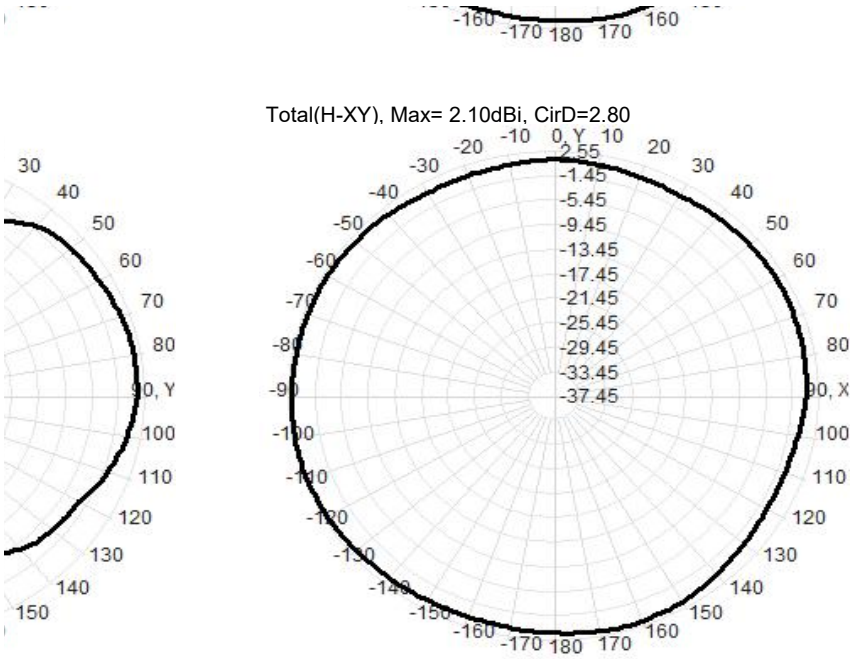


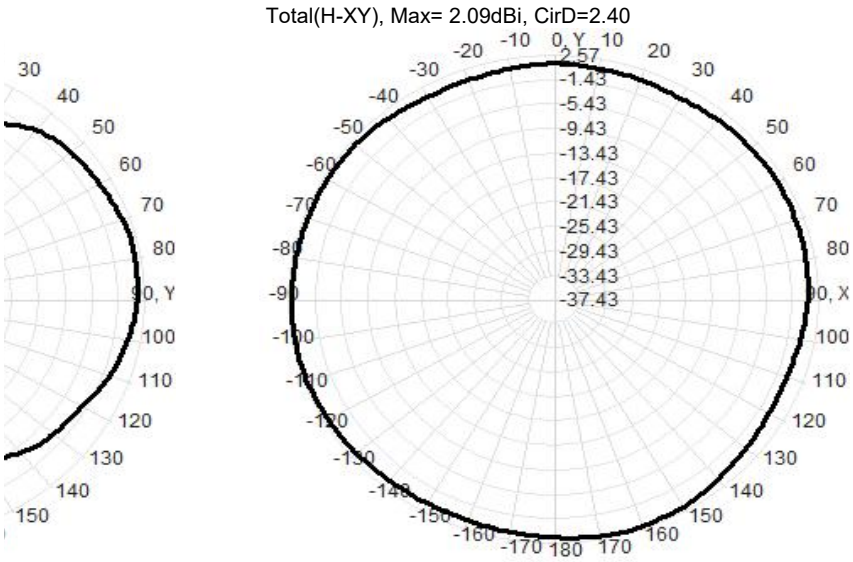
Total(H-XY), Max= 2.20dBi, CirD=3.24

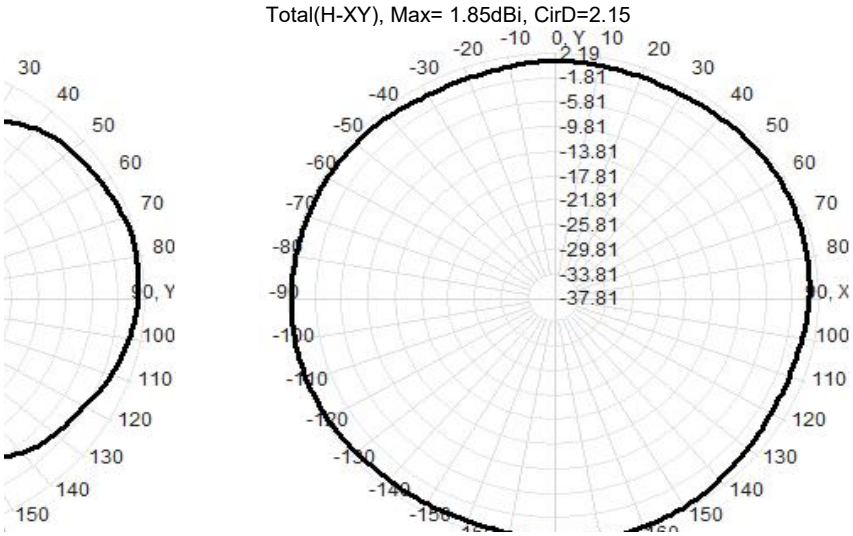


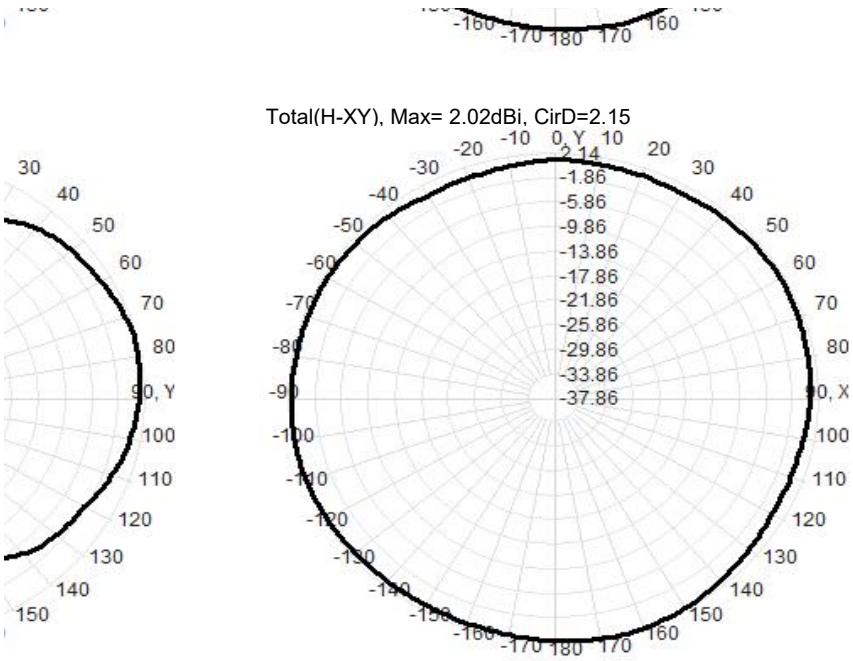
Total(H-XY), Max= 2.37dBi, CirD=3.13

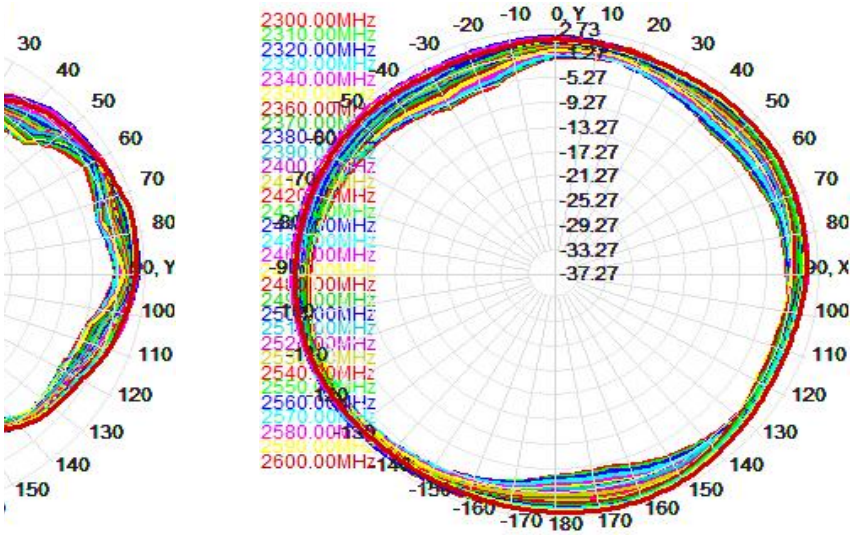



Total(H-XY), Max= 2.10dBi, CirD=2.80
2.55
-1.45
-5.45
-9.45
-13.45
-17.45
-21.45
-25.45
-29.45
-33.45
-37.45
0, Y
0, X


Total(H-XY), Max= 2.09dBi, CirD=2.40
2.57
-1.43
-5.43
-9.43
-13.43
-17.43
-21.43
-25.43
-29.43
-33.43
-37.43
0, Y
0, X


Total(H-XY), Max= 1.85dBi, CirD=2.15
2.19
-1.81
-5.81
-9.81
-13.81
-17.81
-21.81
-25.81
-29.81
-33.81
-37.81
0, Y
0, X


Total(H-XY), Max= 2.02dBi, CirD=2.15
0, Y
0, X
2.14
-1.86
-5.86
-9.86
-13.86
-17.86
-21.86
-25.86
-29.86
-33.86
-37.86


2300.00MHz
2320.00MHz
2340.00MHz
2360.00MHz
2380.00MHz
2600.00MHz
0, Y
0, X
2.73
-5.27
-9.27
-13.27
-17.27
-21.27
-25.27
-29.27
-33.27
-37.27