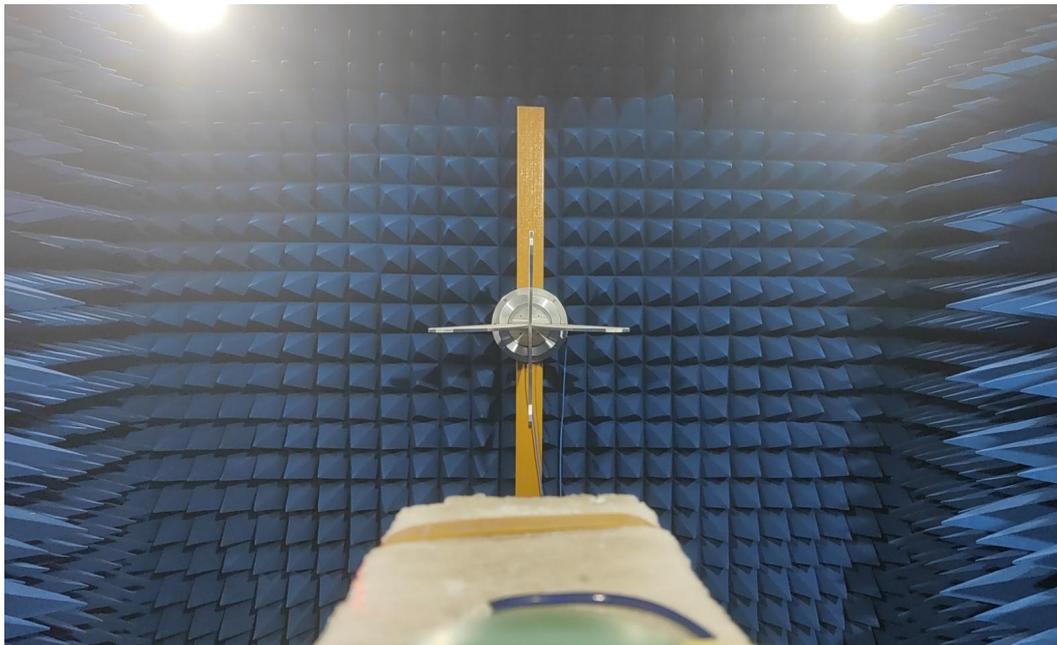


## 2. 4G-2. 5G&5G-5. 8G ANTENNA REPORT

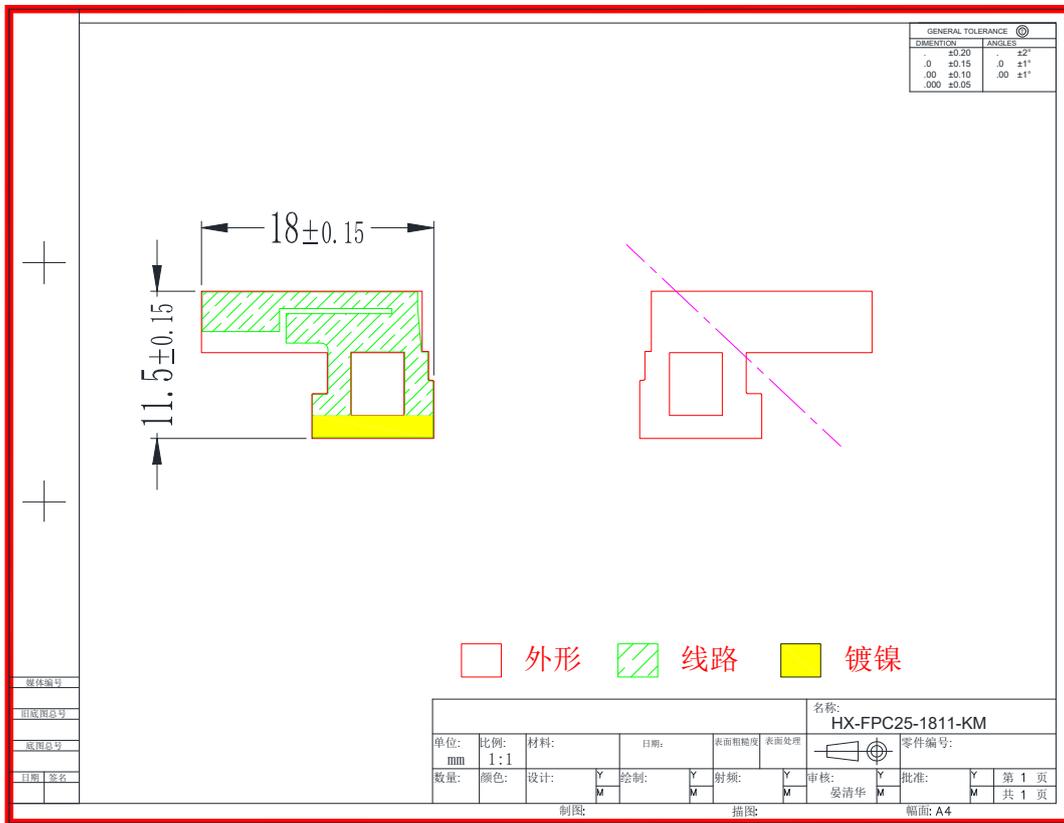
SPECIFICATIONS	
Frequency (MHz)	2400-2500&5000-5800
Peak Gain (dBi)	0.4&-4.0
Average Gain (dBi)	-0.4&-8.5
VSWR	<3.0&<6.5
Impedance ( $\Omega$ )	50
Antenna Type	FPC Dipole antenna
Polarization	Linear
Manufacture	Shenzhen Hongxin Technology Electronics Co.,Ltd



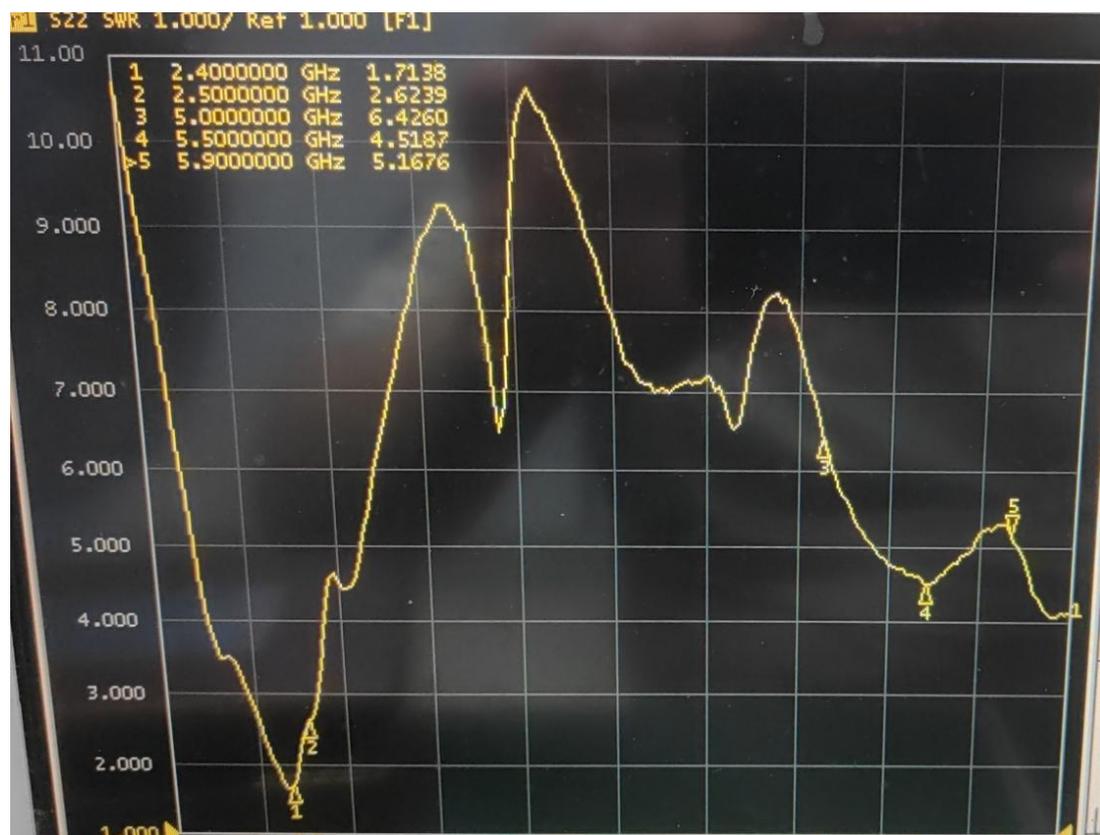
ANTENNA PHOTOSHOW :



ANTENNA SIZE :



## ANTENNA ELECTRIC PARAMETER:

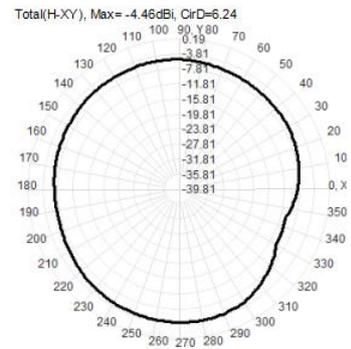
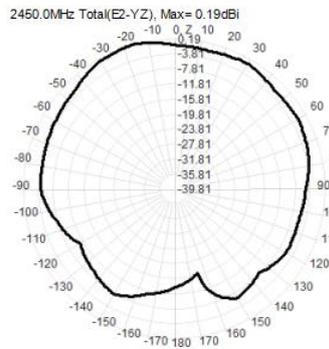
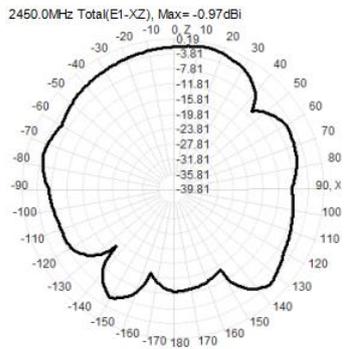
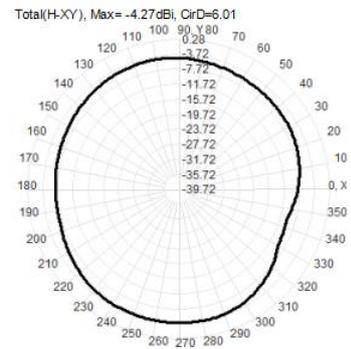
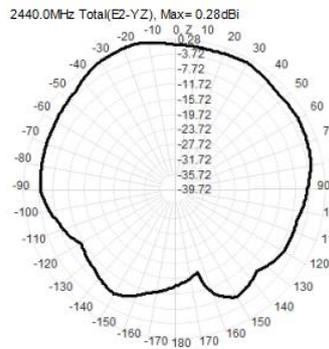
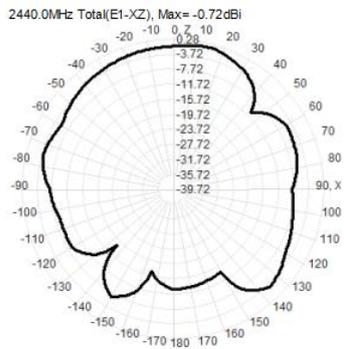


Antenna efficiency and gain:

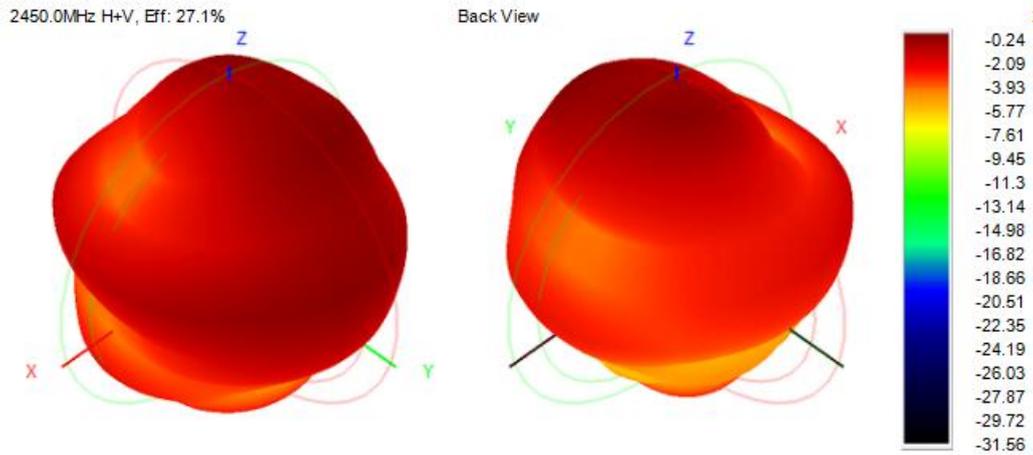
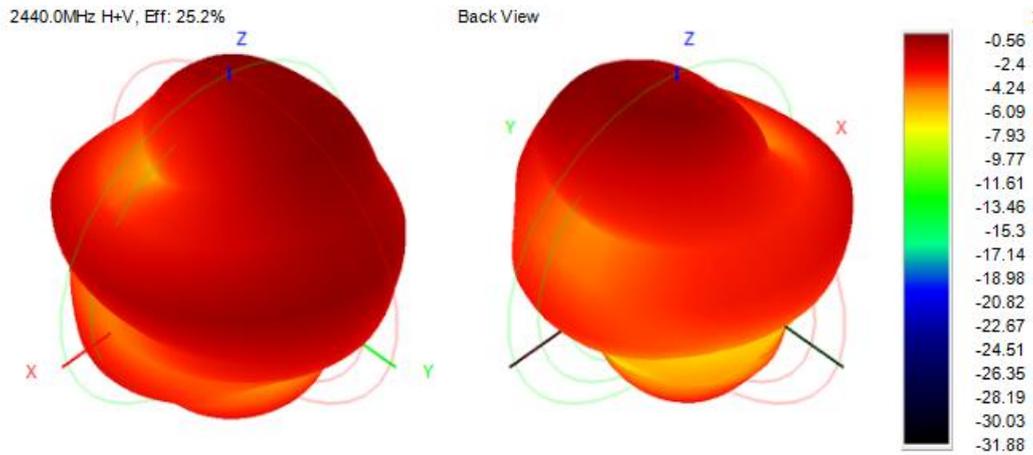
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-6.44	-6.40	-6.30	-6.21	-5.98	-5.67	-5.39	-5.18	-4.86	-4.53	-4.18
Gain (dBi)	-1.70	-1.11	-0.79	-0.77	-0.56	-0.24	-0.07	0.11	0.23	0.31	0.39
Efficiency (%)	22.70	22.91	23.42	23.95	25.25	27.09	28.93	30.31	32.64	35.26	38.21
Directivity (dB)	4.74	5.29	5.51	5.43	5.42	5.43	5.32	5.30	5.09	4.83	4.57
Peak Gain Position (Theta)	15.00	15.00	15.00	15.00	30.00	30.00	60.00	60.00	60.00	60.00	60.00
Peak Gain Position (Phi)	135.00	135.00	150.00	150.00	105.00	105.00	75.00	75.00	75.00	75.00	75.00
Efficiency ThetaPol (%)	14.12	14.13	14.42	14.72	15.54	16.60	17.82	18.68	20.29	21.80	23.73
Efficiency PhiPol (%)	8.58	8.78	9.00	9.23	9.71	10.49	11.11	11.62	12.35	13.45	14.48
Upper Hem. Efficiency (%)	11.15	12.16	13.56	15.14	17.23	19.58	21.55	22.62	23.95	25.31	26.86
Lower Hem. Efficiency (%)	11.55	10.75	9.86	8.82	8.02	7.51	7.39	7.68	8.68	9.94	11.36
T90(H)圆度	7.82	8.19	8.11	8.04	7.07	5.71	4.27	5.58	6.73	7.07	6.88
Gain 15deg (dBi)											
E1(XZ)波谱宽度	34.00	34.00	37.00	40.00	46.00	52.00	59.00	64.00	68.00	74.00	82.00
E1(XZ)前后比	1.42	2.23	3.07	3.76	4.40	5.30	6.68	8.33	10.04	8.70	7.86
E2(YZ)波谱宽度	38.00	92.00	95.00	99.00	104.00	109.00	118.00	125.00	128.00	135.00	173.00
E2(YZ)前后比	0.00	0.21	0.82	1.62	2.62	3.84	5.14	6.28	7.16	7.54	7.81
最大增益处轴比(P)	12.02	11.41	8.72	8.69	11.71	10.89	7.47	6.01	4.90	3.72	3.20
顶点(Theta=0)处轴比(P)	8.89	9.04	9.24	9.30	9.62	9.79	10.21	10.73	11.33	11.86	12.08
仰角10度最差(大)轴比(P)	51.99	56.38	60.69	63.44	50.11	88.11	60.73	49.74	54.08	58.97	58.93
Hc(XY)波谱宽度	89.00	86.00	91.00	115.00	119.00	114.00	115.00	298.00	289.00	289.00	289.00
Hc(XY)前后比	1.76	1.66	1.65	1.54	2.02	2.34	2.68	2.50	1.78	1.27	0.91
左旋圆极化效率(%)	10.16	9.57	9.11	8.90	9.18	9.91	10.87	11.75	13.05	14.47	16.07
右旋圆极化效率(%)	12.54	13.35	14.30	15.05	16.07	17.17	18.07	18.55	19.59	20.78	22.14

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800
-17.47	-16.69	-16.28	-15.64	-15.10	-14.68	-14.04	-13.71	-13.46	-12.93	-12.38	-11.70	-11.11	-10.71	-10.15	-9.73	-9.49
-12.23	-11.53	-11.46	-10.65	-10.54	-9.95	-9.44	-9.11	-9.03	-8.55	-7.50	-6.19	-5.72	-5.23	-5.28	-4.82	-4.43
1.79	2.14	2.36	2.73	3.09	3.40	3.94	4.25	4.51	5.09	5.79	6.75	7.75	8.49	9.67	10.65	11.26
5.24	5.16	4.82	5.00	4.56	4.73	4.60	4.61	4.44	4.38	4.88	5.51	5.38	5.49	4.87	4.91	5.05
60.00	60.00	60.00	90.00	90.00	90.00	90.00	90.00	90.00	105.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
330.00	0.00	0.00	90.00	90.00	90.00	90.00	180.00	180.00	150.00	105.00	105.00	105.00	105.00	105.00	90.00	90.00
0.97	1.14	1.28	1.54	1.80	2.00	2.28	2.48	2.71	3.26	3.95	4.70	5.21	5.33	5.66	5.84	5.84
0.83	1.00	1.08	1.19	1.30	1.41	1.66	1.77	1.79	1.83	1.83	2.05	2.54	3.16	4.01	4.80	5.41
1.10	1.28	1.37	1.54	1.69	1.87	2.17	2.36	2.47	2.74	3.09	3.54	3.94	4.22	4.66	4.96	5.22
0.69	0.86	0.98	1.19	1.40	1.53	1.77	1.89	2.04	2.35	2.70	3.22	3.81	4.27	5.01	5.68	6.04
7.17	11.11	10.25	9.14	7.22	6.39	7.63	7.53	7.33	7.55	11.45	17.39	27.11	17.42	15.63	15.69	14.33
26.00	25.00	30.00	54.00	67.00	40.00	36.00	31.00	34.00	35.00	40.00	35.00	37.00	35.00	47.00	57.00	74.00
6.19	5.65	7.40	7.71	6.45	5.25	6.60	8.25	8.81	8.44	7.31	8.76	10.58	10.26	8.69	8.98	9.26
33.00	36.00	34.00	33.00	30.00	28.00	28.00	26.00	27.00	25.00	26.00	71.00	73.00	76.00	75.00	76.00	71.00
4.77	4.42	3.82	5.14	4.51	4.34	3.14	2.35	2.45	3.15	3.43	2.97	2.51	2.08	2.42	2.72	3.46
17.05	12.61	10.90	9.71	11.60	13.65	12.26	19.99	17.82	18.84	42.36	37.08	30.26	21.86	18.61	11.55	9.81
16.78	15.38	11.64	15.15	14.61	30.65	17.01	20.14	22.25	13.00	9.79	6.38	5.60	5.94	8.69	13.91	10.21
45.26	50.54	49.56	46.87	42.88	48.78	58.60	45.87	50.95	51.94	46.03	52.26	53.96	48.30	64.51	52.43	50.82
193.00	160.00	143.00	97.00	214.00	174.00	176.00	191.00	223.00	208.00	198.00	142.00	73.00	54.00	55.00	48.00	47.00
1.14	3.23	3.91	4.04	3.25	3.31	3.46	3.35	2.93	2.34	2.08	2.69	2.81	3.60	3.68	3.68	3.91
0.84	1.02	1.15	1.33	1.52	1.70	1.94	2.12	2.25	2.52	2.82	3.40	3.98	4.41	5.06	5.59	5.74
0.95	1.12	1.20	1.40	1.57	1.70	2.00	2.13	2.26	2.57	2.97	3.36	3.77	4.08	4.61	5.06	5.52

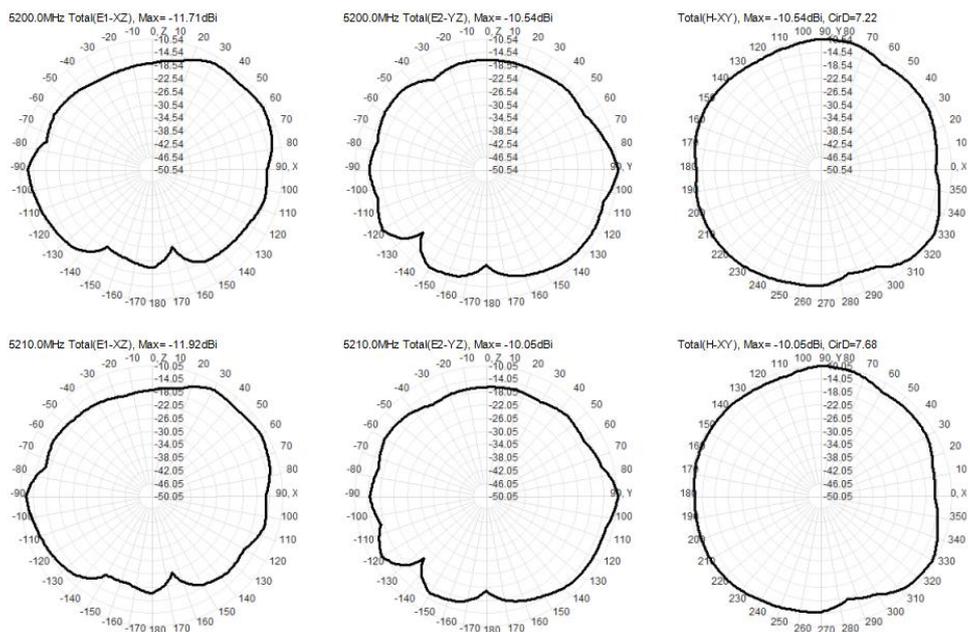
## 2.4G 2D-Theta Pattern



## 2.4G 3D-Horizontal Pattern

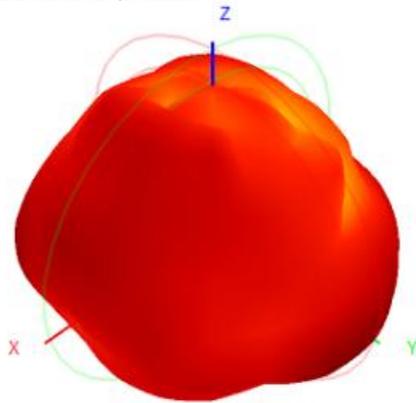


## 5.2G 2D-Theta Pattern

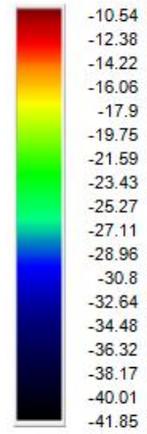
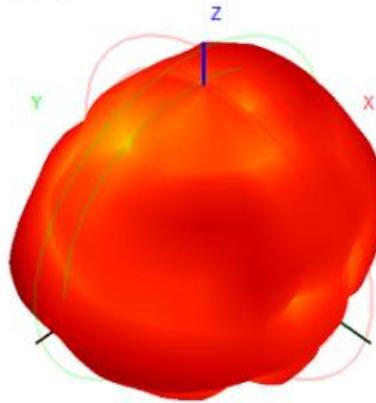


## 5.2G 3D-Horizontal Pattern

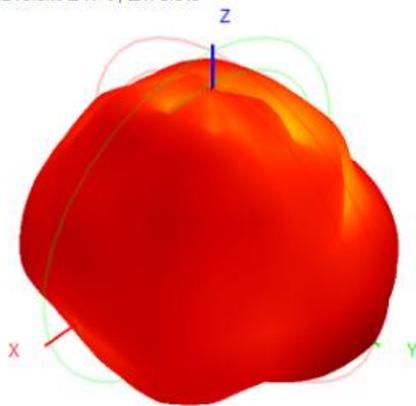
5200.0MHz H+V, Eff: 3.1%



Back View



5210.0MHz H+V, Eff: 3.3%



Back View

