



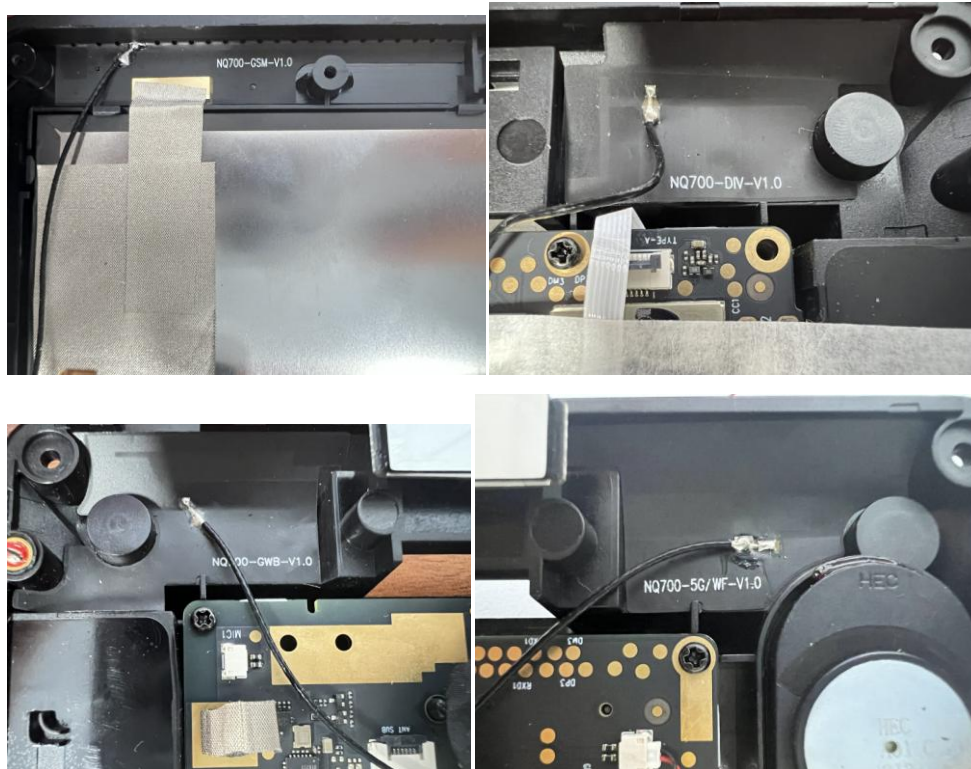
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Road, Pingshan Community, Taoyuan Sub-district, Nanshan District, Shenzhen City

深圳市德仕勤科技有限公司

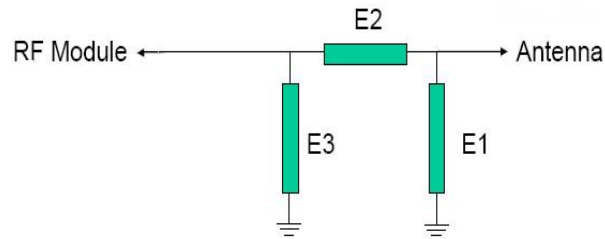
DOSKING Antenna Test Report



1.The Equipment of Active Test

1. ETS Chamber 7×4×3(m)/3*3*3 (m)
2. 矢量网络分析仪(无源测试仪) Vector network analyzer (Passive Tester)
3. Network analyzer-5071E/B/Comprehensive measuring instrument-8960/LTE-RS-CMW500/MT8820C support 2G、3G、4G/BT、WIFI、NB

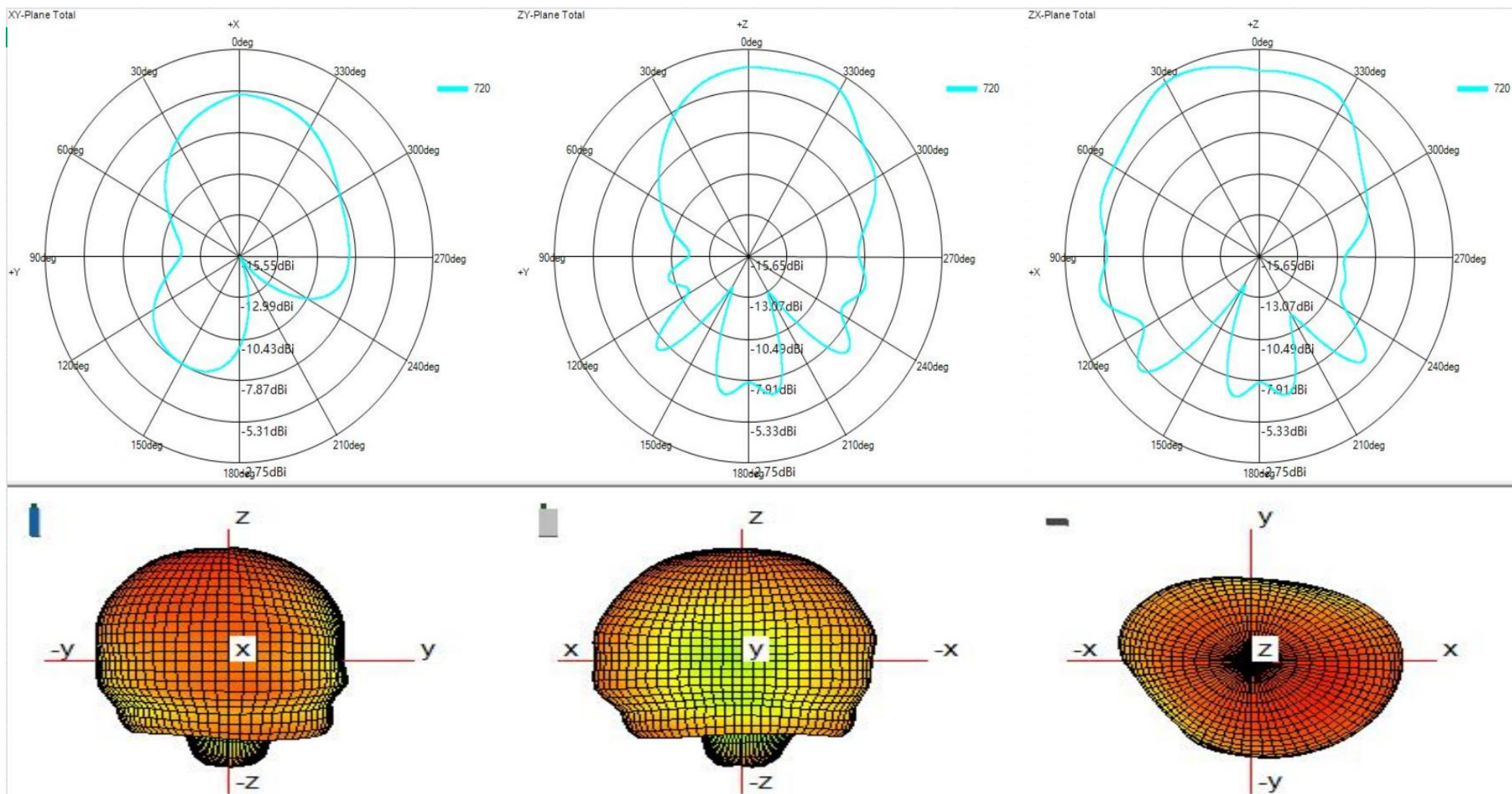
2.Matching Circuit

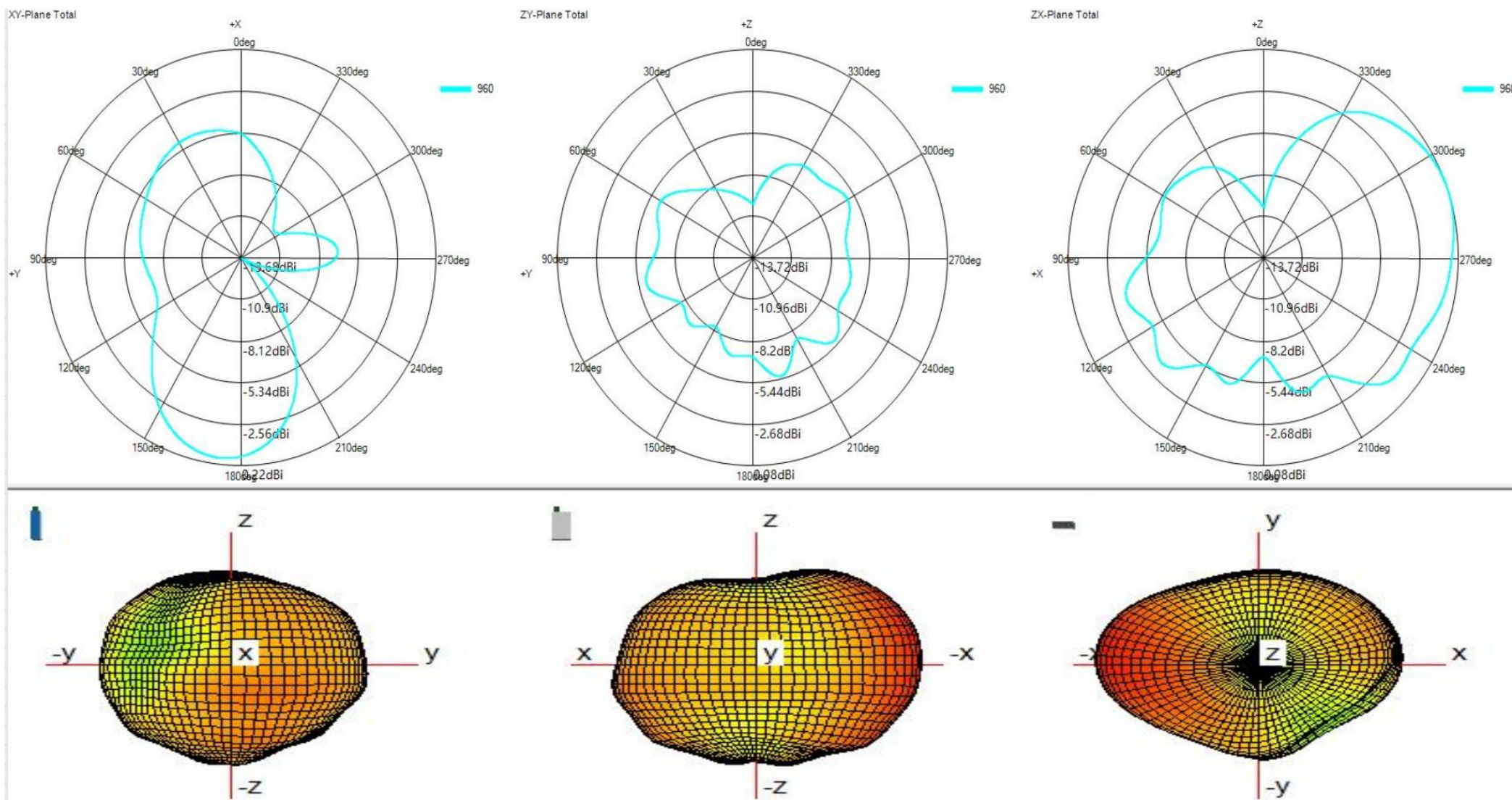


Element	Matching value
E1	
E2	
E3	

3:Passive antenna testing

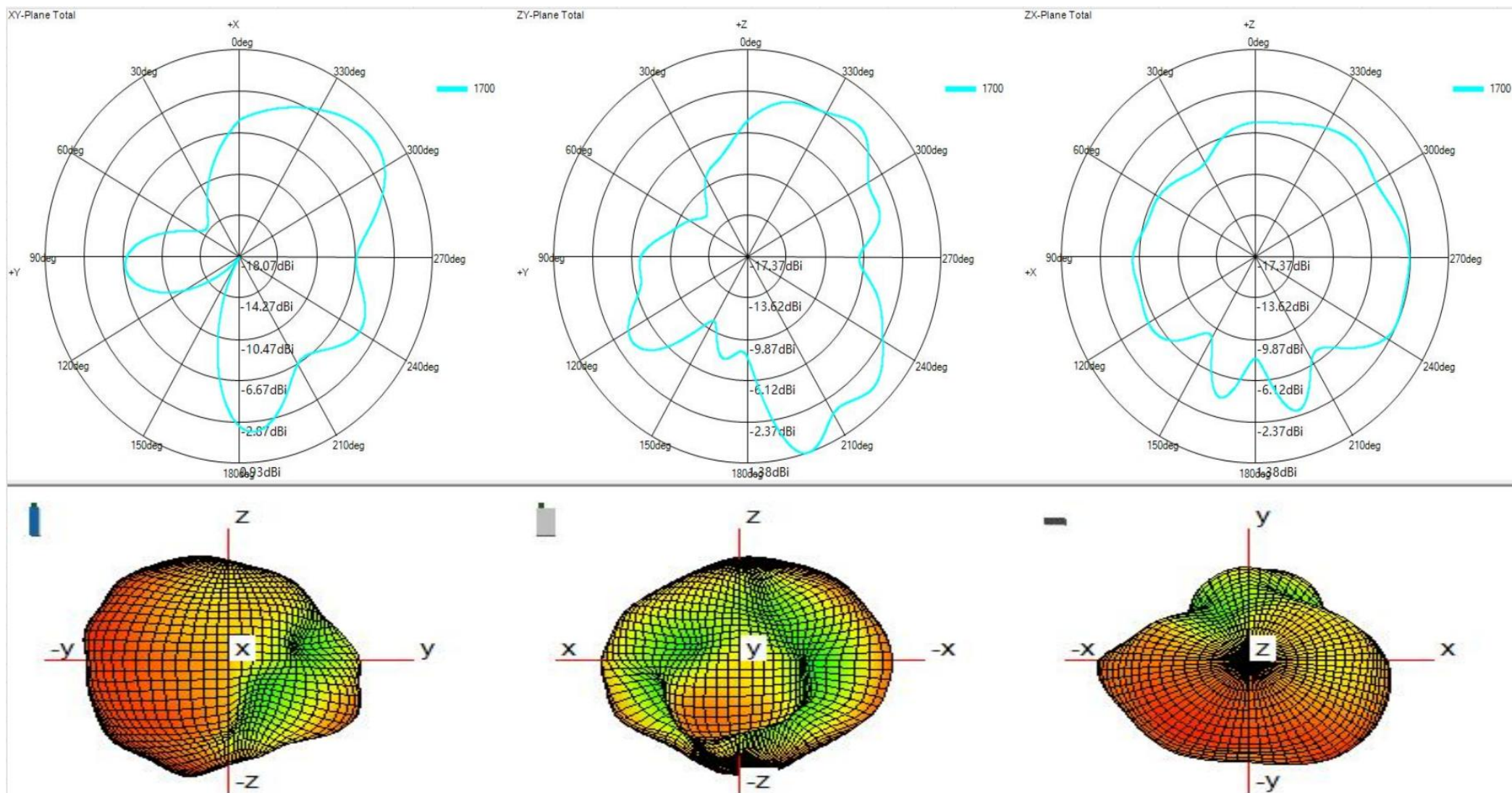
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
700	-2.48	-6.63	21.71
720	-2.67	-6.48	22.51
740	-2.37	-6.10	24.53
760	-2.45	-6.03	24.94
780	-2.06	-5.52	28.06
800	-1.72	-5.17	30.39
820	-1.54	-5.00	31.62
840	-0.62	-4.82	32.95
860	0.36	-4.56	34.96
880	0.95	-4.25	37.54
900	1.22	-4.05	39.35
920	1.26	-4.15	38.48
940	0.80	-4.63	34.40
960	0.04	-5.16	30.45



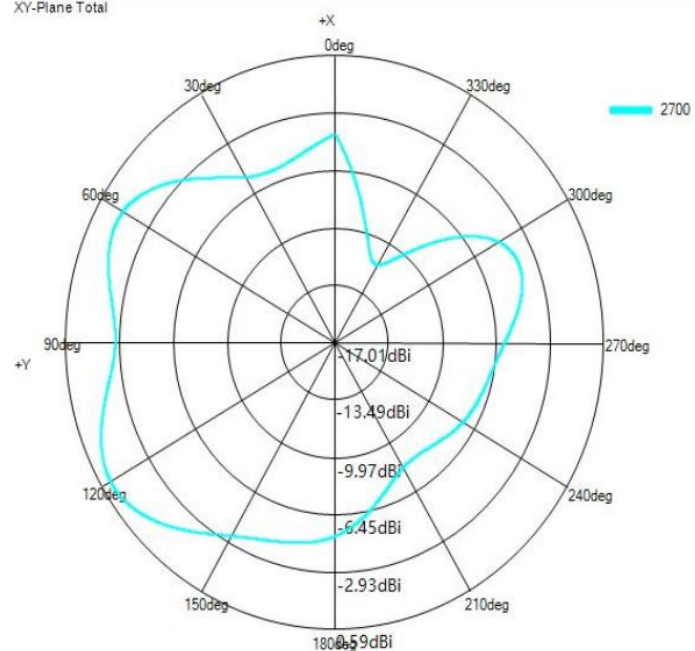




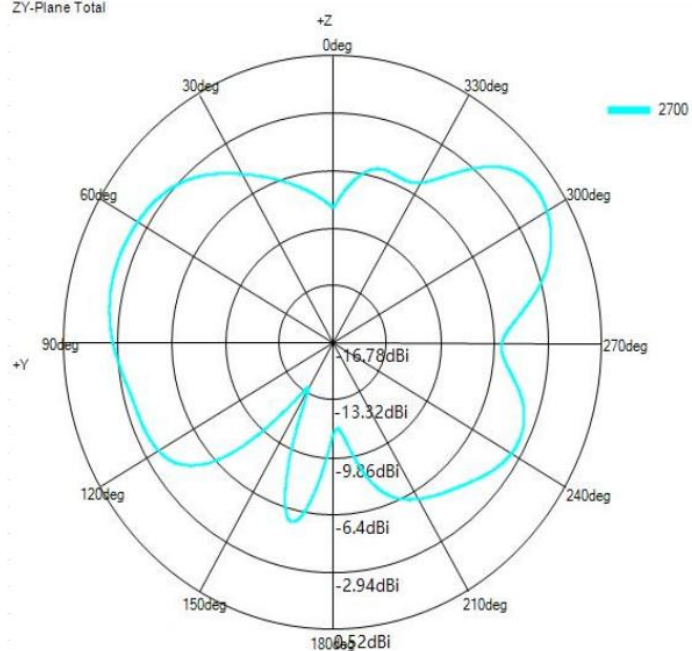
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1700	0.91	-4.54	35.17	2260	2.44	-2.59	55.08
1740	1.60	-3.95	40.25	2280	2.31	-2.67	54.14
1780	1.86	-3.71	42.60	2320	1.85	-2.98	50.33
1820	2.07	-3.37	46.01	2360	1.65	-2.95	50.74
1860	2.10	-3.22	47.66	2400	1.69	-2.78	52.71
1900	2.31	-3.08	49.19	2440	1.92	-2.90	51.31
1940	2.07	-3.42	45.52	2480	1.64	-3.29	46.86
1980	0.75	-3.68	42.82	2520	1.71	-3.18	48.04
2020	0.94	-3.37	46.05	2560	1.51	-3.11	48.85
2060	1.53	-3.14	48.50	2600	1.77	-2.96	50.56
2100	1.31	-3.25	47.35	2640	1.00	-3.34	46.35
2140	1.83	-3.02	49.94	2680	0.34	-3.69	42.74
2180	1.98	-2.92	51.07	2700	0.51	-3.74	42.22
2220	2.57	-2.47	56.59				



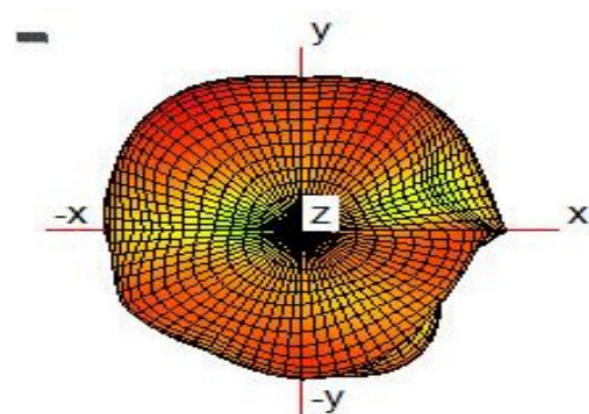
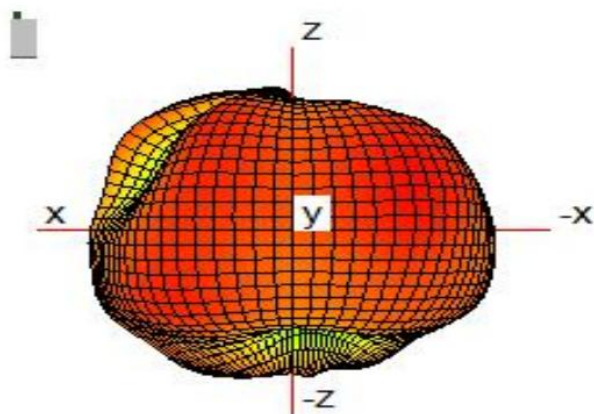
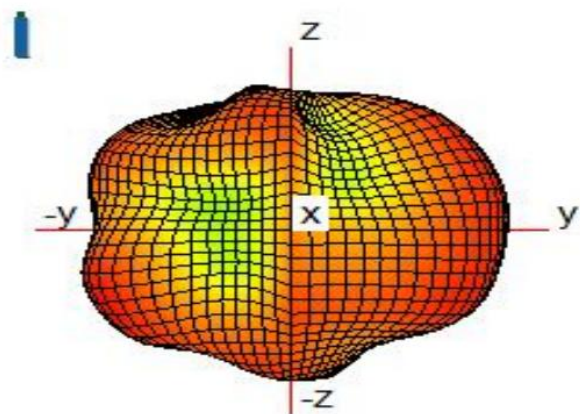
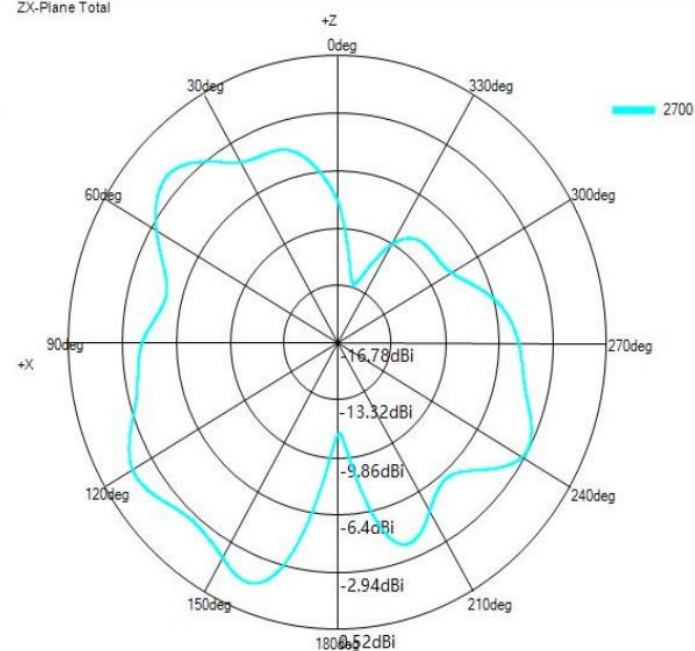
XY-Plane Total



ZY-Plane Total

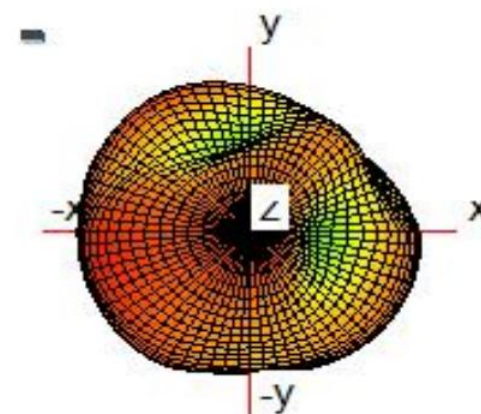
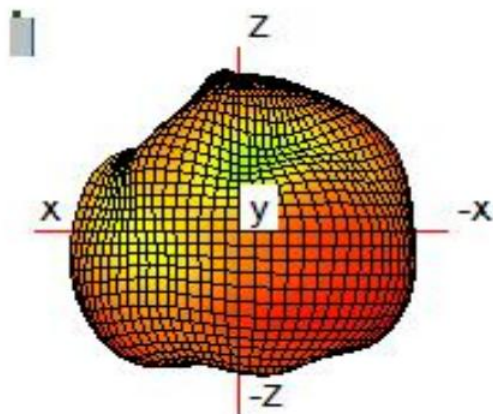
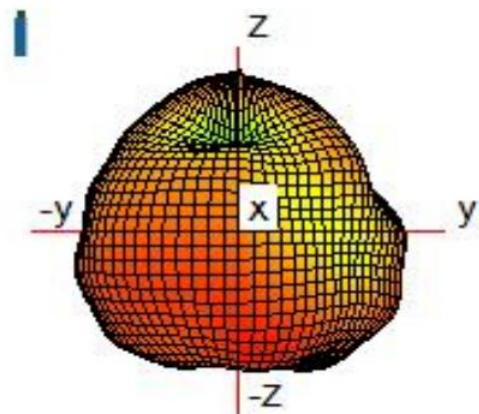
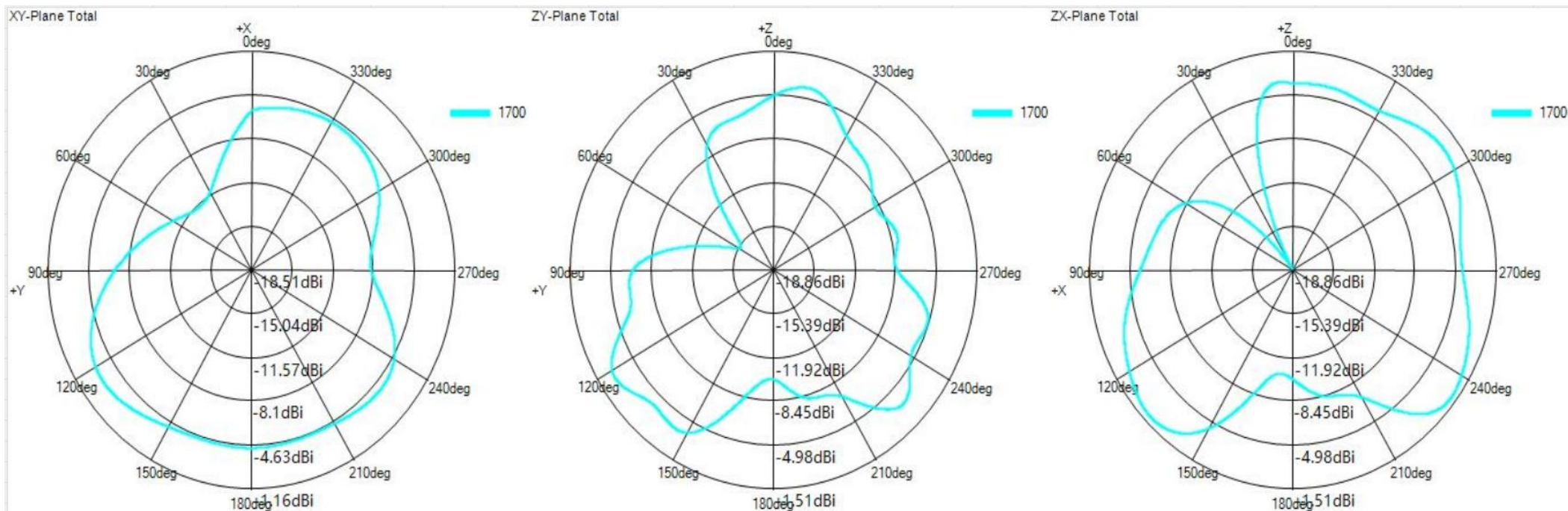


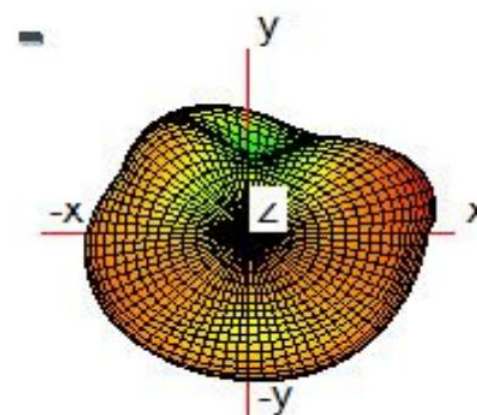
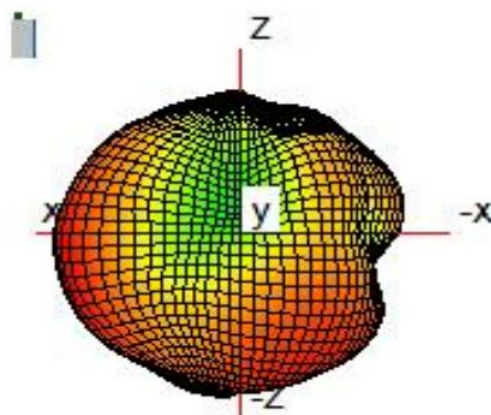
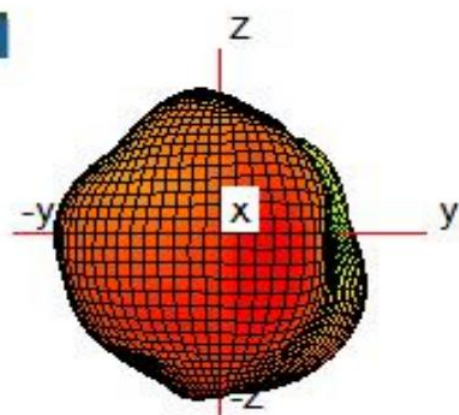
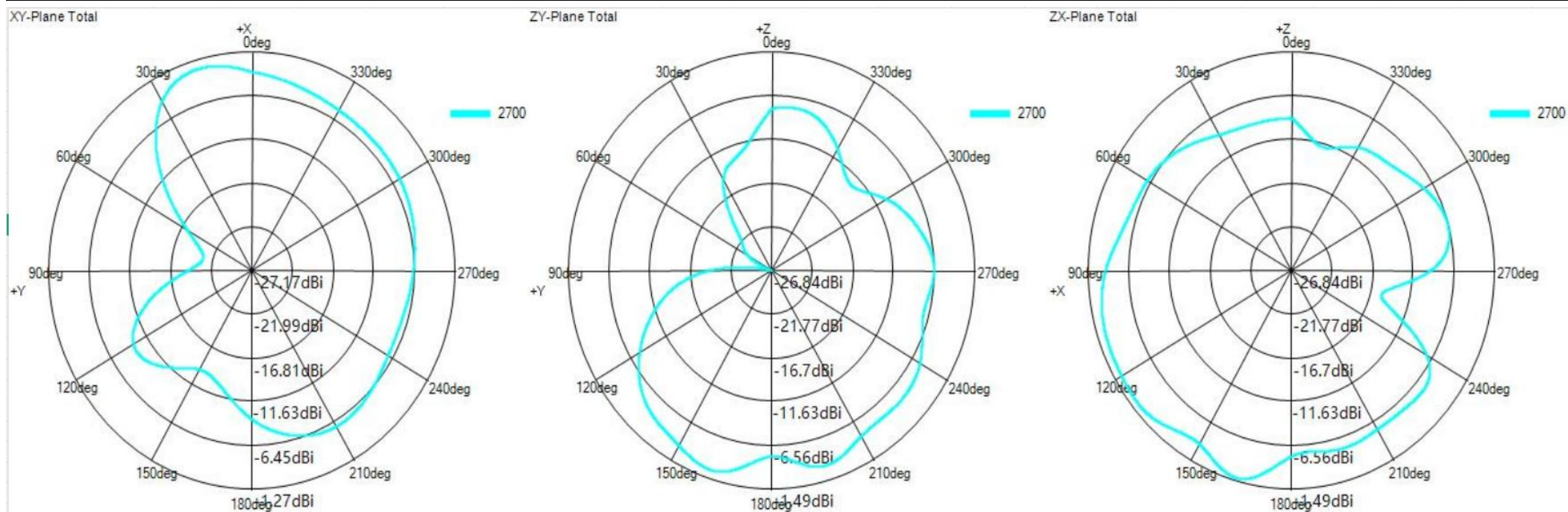
ZX-Plane Total



diversity antenna

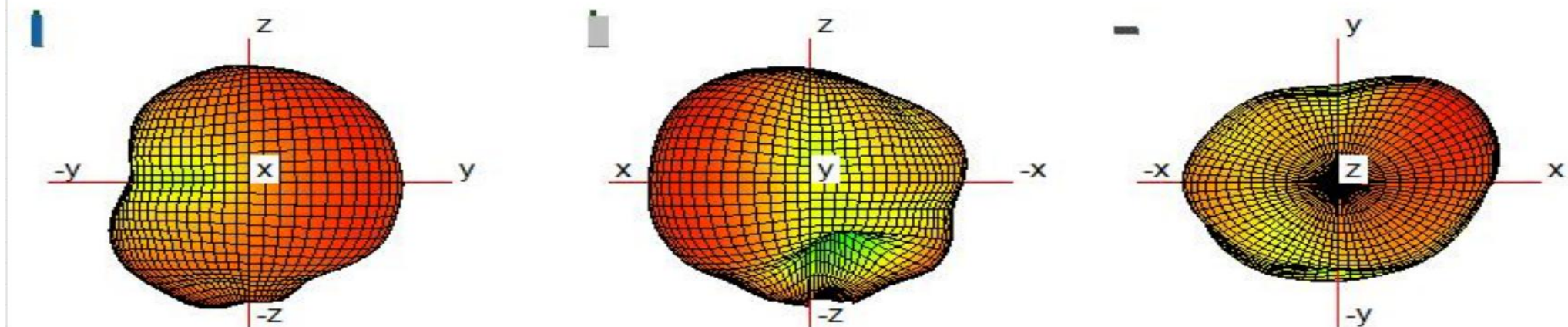
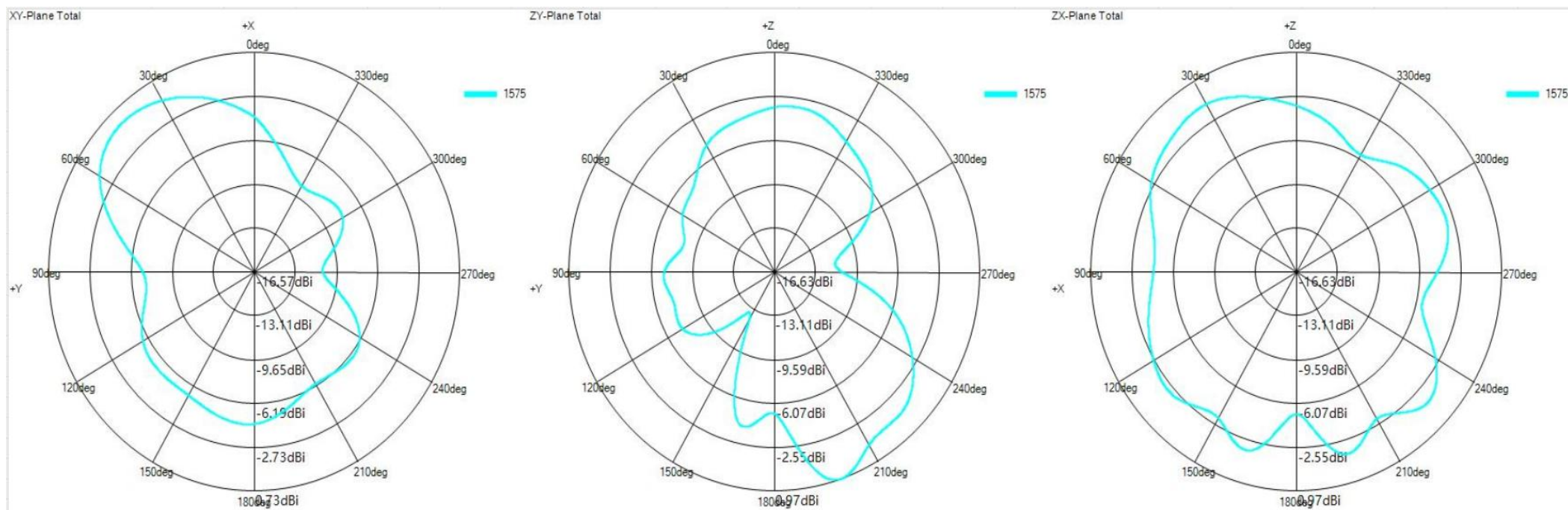
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1700	-1.51	-5.61	27.47	2260	-2.46	-6.89	20.45
1740	-0.44	-5.21	30.15	2300	-2.30	-6.80	20.91
1780	0.58	-4.73	33.69	2340	-2.12	-6.60	21.90
1820	0.79	-4.54	35.12	2380	-2.06	-6.47	22.56
1860	0.74	-4.45	35.91	2420	-1.91	-6.37	23.09
1900	0.78	-4.44	36.00	2460	-1.54	-6.20	23.97
1920	0.71	-4.47	35.74	2500	-1.26	-6.11	24.47
1940	0.46	-4.50	35.51	2540	-1.13	-6.12	24.41
1980	0.33	-4.54	35.13	2580	-1.32	-6.42	22.80
2020	0.13	-4.85	32.73	2620	-1.49	-6.70	21.38
2060	0.30	-4.86	32.66	2660	-1.41	-6.73	21.24
2100	0.12	-5.07	31.15	2700	-1.54	-6.56	22.06
2140	-0.14	-5.30	29.52				
2180	-0.62	-5.51	28.14				
2220	-1.28	-5.89	25.79				

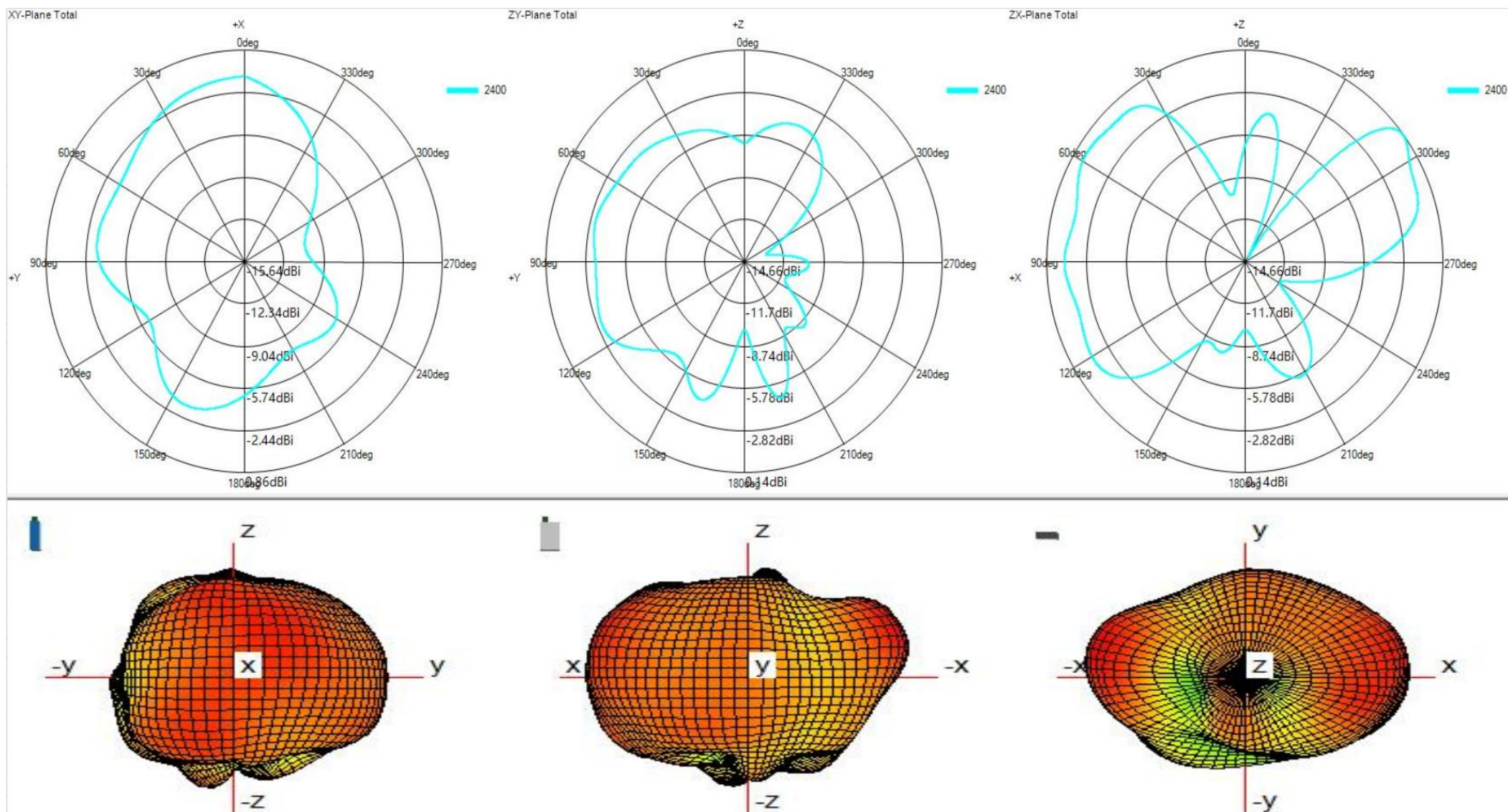


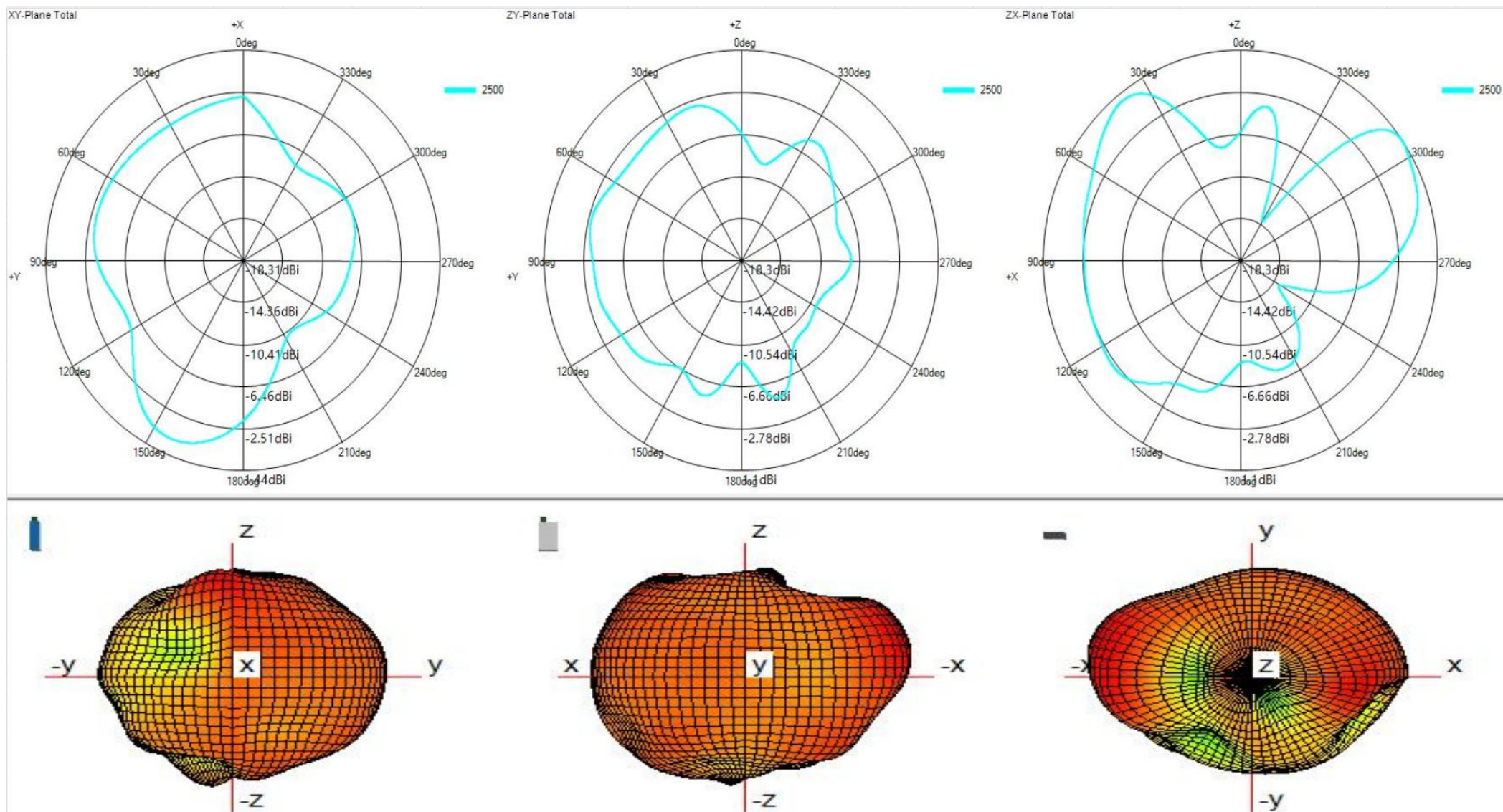


GPS/2.4GWIFI/BT:

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1565	0.76	-3.74	42.31	2400	0.00	-4.51	35.38
1570	0.65	-3.76	42.11	2410	0.14	-4.35	36.77
1575	0.66	-3.80	41.71	2420	0.30	-4.26	37.54
1580	0.71	-3.92	40.57	2430	0.25	-4.28	37.29
1585	0.60	-4.05	39.40	2440	0.35	-4.18	38.22
				2450	0.46	-4.13	38.62
				2460	0.41	-4.20	38.05
				2470	0.38	-4.28	37.34
				2480	0.43	-4.38	36.51
				2490	0.67	-4.31	37.09
				2500	0.83	-4.25	37.54









5G WIFI :

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
5150	2.89	-2.51	56.08
5200	3.36	-1.38	62.70
5250	3.61	-1.31	64.05
5300	3.09	-2.65	54.34
5350	3.06	-2.55	55.55
5400	3.45	-1.05	68.59
5450	3.64	-1.82	65.69
5500	2.24	-3.15	48.45
5550	2.79	-2.60	54.93
5600	3.67	-1.61	69.06
5650	2.97	-2.37	57.97
5700	1.43	-3.57	43.92
5750	1.91	-2.91	51.13
5800	2.23	-2.72	53.50
5850	0.68	-3.91	40.63

