



Shenzhen Deshiqin Technology Co., Ltd

DOSKING Antenna Test Report

Address: Room 403, West Block, Hong Kong Hung Kai Building, Building 2, Private Enterprise Technology Park, Xili University Town, Nanshan District, Shenzhen, Guangdong, China



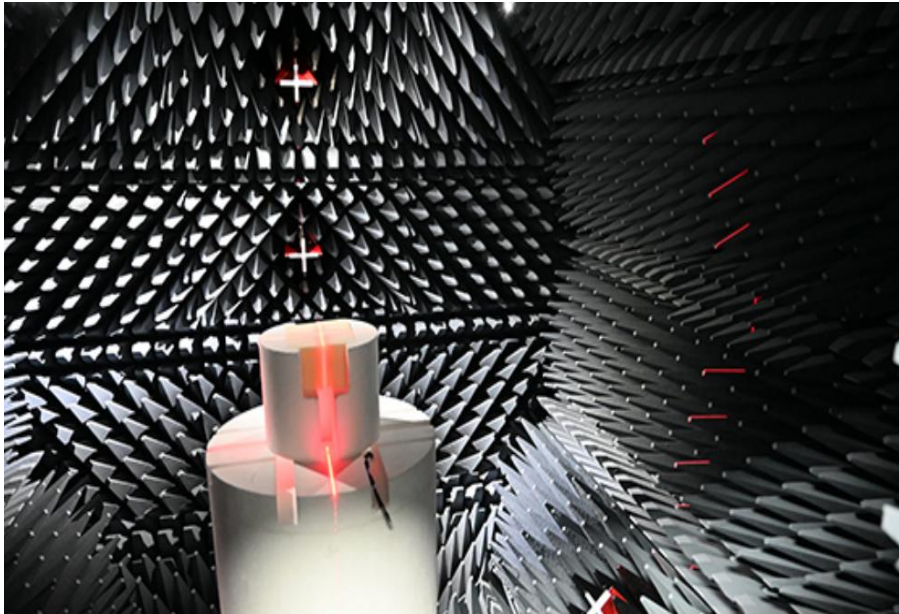
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1. Project Overview:

Customer Name	小吉	Entry Name	F10-3G		
Machine type	mobile phone			Version	V1.0
Frequency band information			Antenna type	Matching changes	
Main antenna	G5/G8/2G/3G,W1/2/5		PIFA	NO	
Sub antenna	GPS/WIFI/BT		PIFA	NO	
DIV antenna	800-960MHZ,1710-2170MHZ		PIFA	NO	
Antenna material	FPC				

2. Main testing equipment

1. ETS Chamber 5 × 3 × 3(m)(3D Laboratory) / 3 × 3 × 3(m)(3D Laboratory)/1800(3D Laboratory) , Network Analyzer
2. Network analyzer-8960/LTE CMW500/8820/CMW500/MT8000A Support 2G、3G、4G、5G Comprehensive testing instruments, Also supports 2.4/5.8WIFI6/NB.



3. Antenna data

Model: M30				Antenna implementation method : FPC						unit: dBm		
signal path	GSM850			GSM900			DCS1800			PCS1900		
	CH128	CH192	CH251	CH1	CH62	CH124	CH512	CH698	CH885	CH512	CH661	CH810
TRP	23.63	23.99	25.78	25.64	25.48	25.71	24.11	24.76	23.91	22.24	22.76	22.01
TIS			-100.74			-100.01			-98.86			-101.83
signal path	WCDMA-2100			WCDMA-850			WCDMA-1900					
	CH10562	CH10700	CH10838	CH4357	CH4408	CH4458	CH9662	CH9800	CH9938			
TRP	15.07	16.46	16.72	13.45	14.78	14.97	16.86	16.68	15.07			
TIS			-101.92			-101.44			-100.44			



4: GPS/WIFI/BT

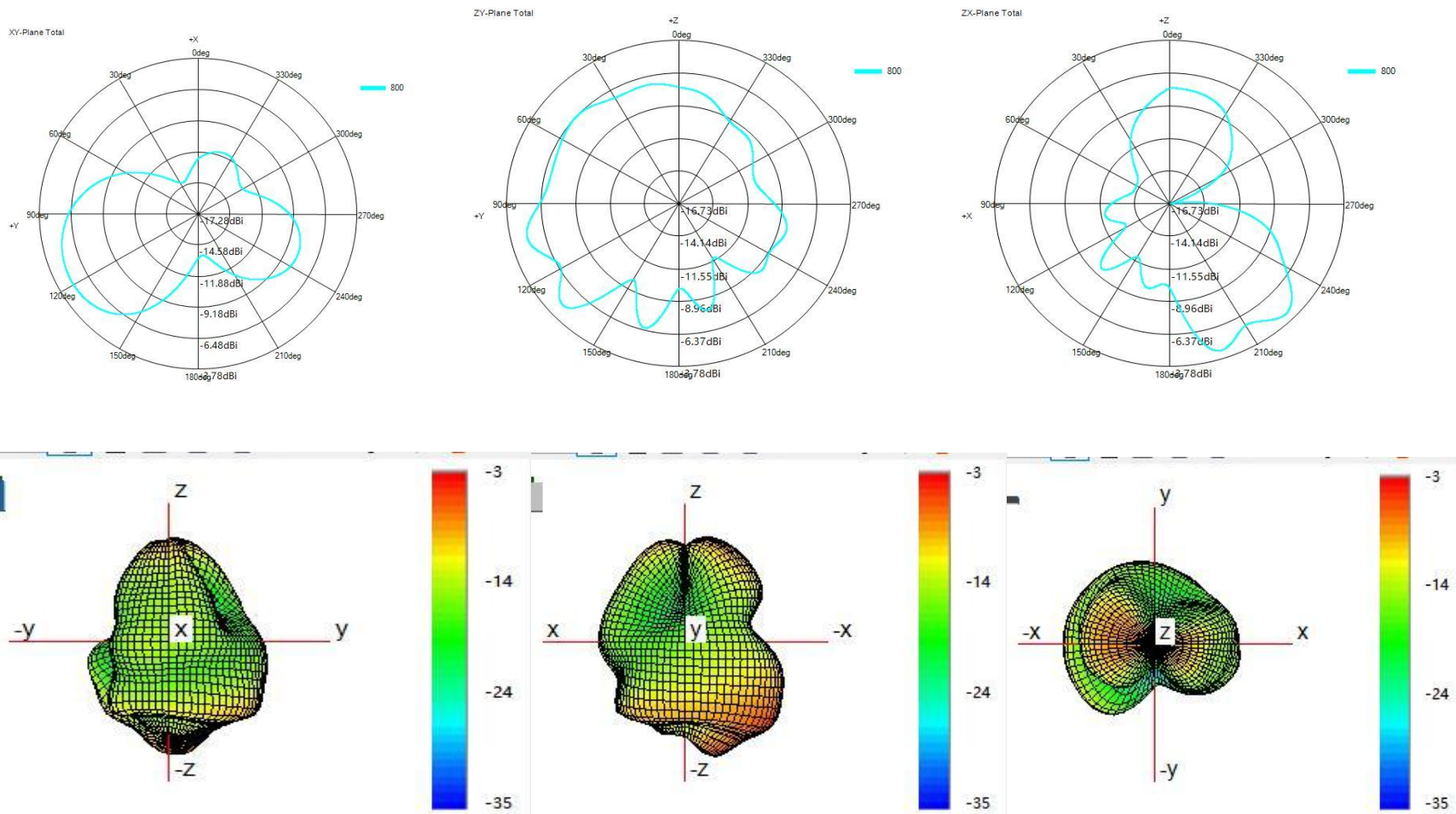
GPS/WIFI/BT 注:	GPS	Maximum signal strength	Number of stars received	Average positioning time (s)	weather condition	
		40	14-18	90-120	Sunny	
	WIFI	Normal internet distance (m)		Distance of smooth online browsing (m)		
		12-15		10-12		
	BT	清晰通话距离 (m)				
		10-12				

5:Efficiency gain

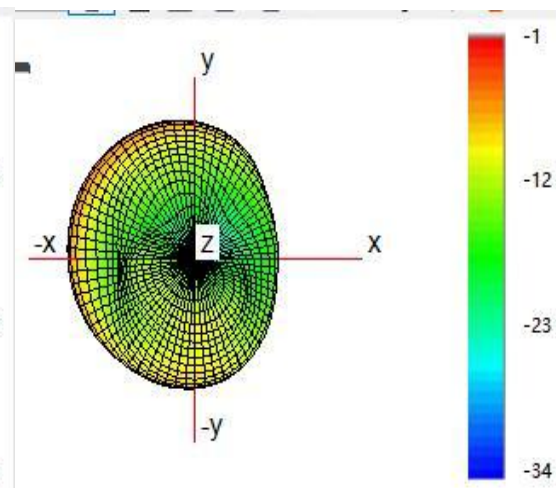
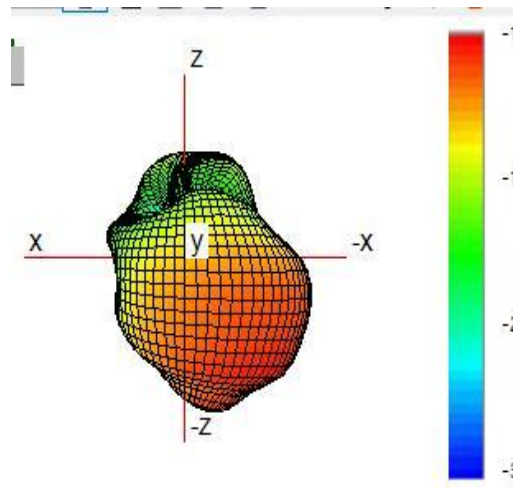
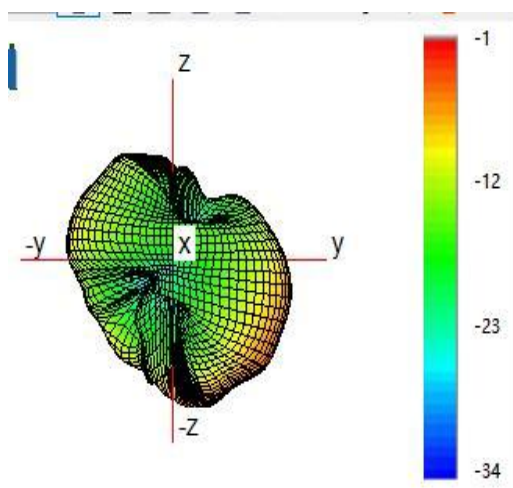
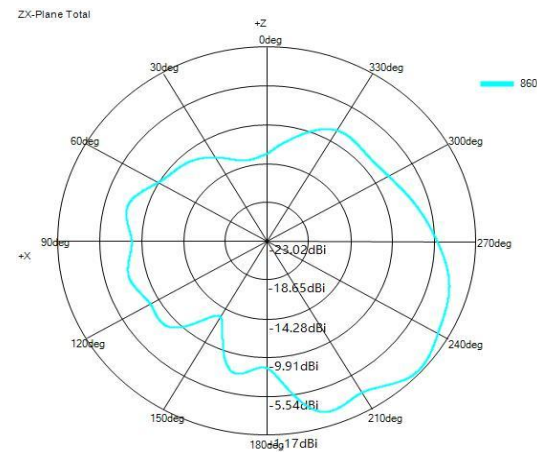
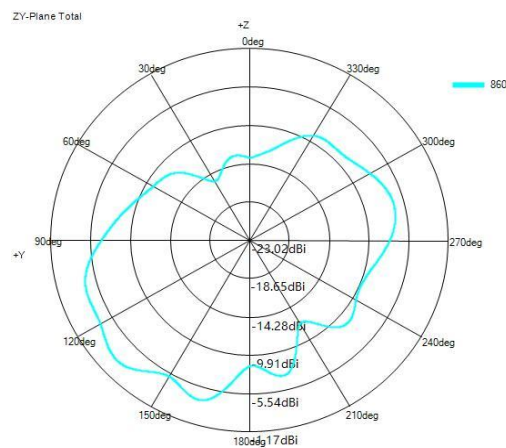
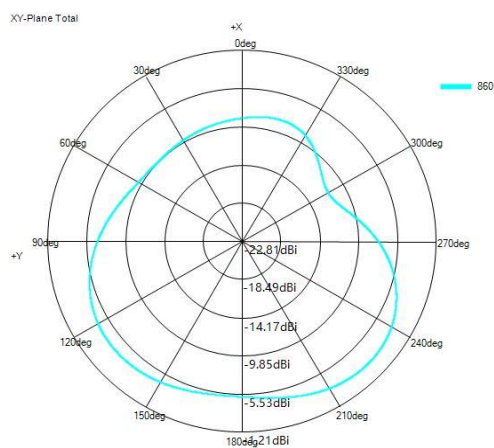
5.1 820-960MHZ

Freq (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
820	-8.22	-2.75	18.05
840	-6.6	-0.79	21.76
860	-6.41	-1.21	22.55
880	-7.69	-2.05	19.02
900	-6.98	-2.07	20.12
920	-7.02	-1.56	19.85
940	-6.79	-1.12	20.91
960	-6.56	-0.94	22.3

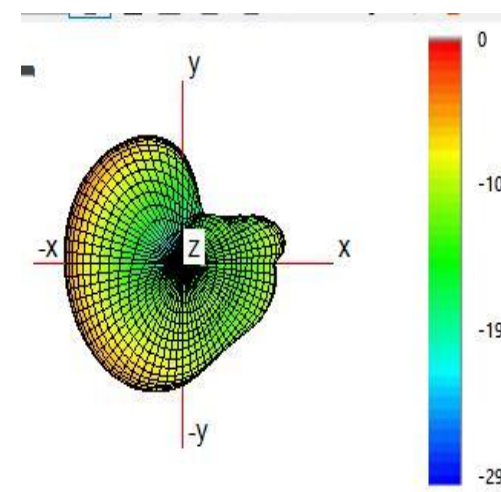
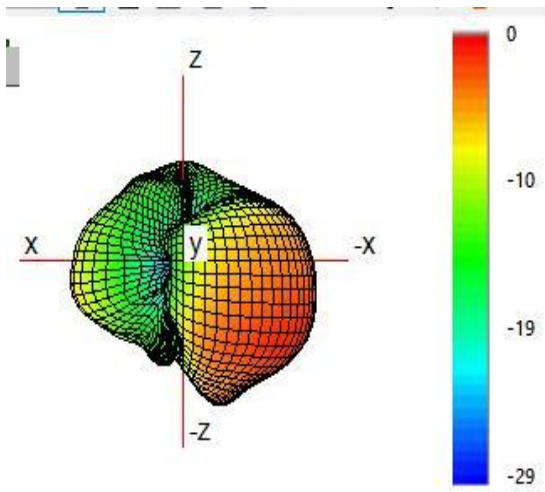
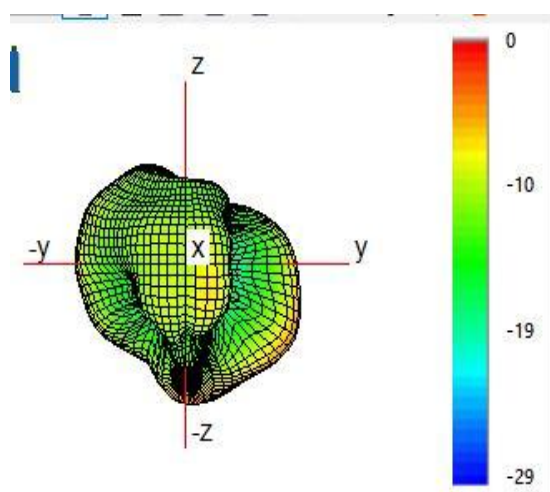
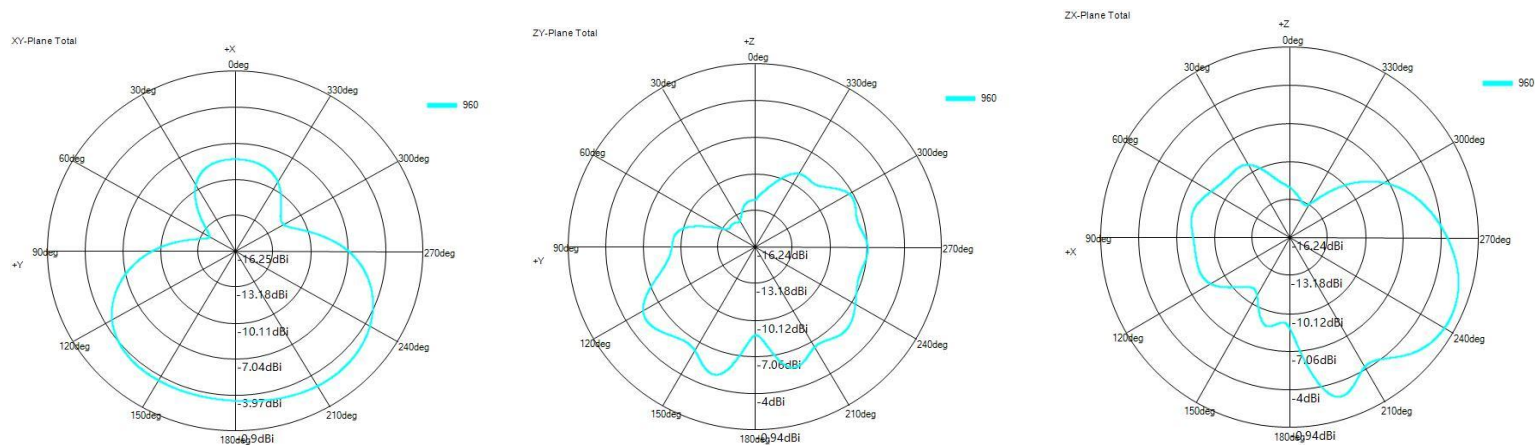
5.2 820(MHz):



890(MHz):



960(MHz):



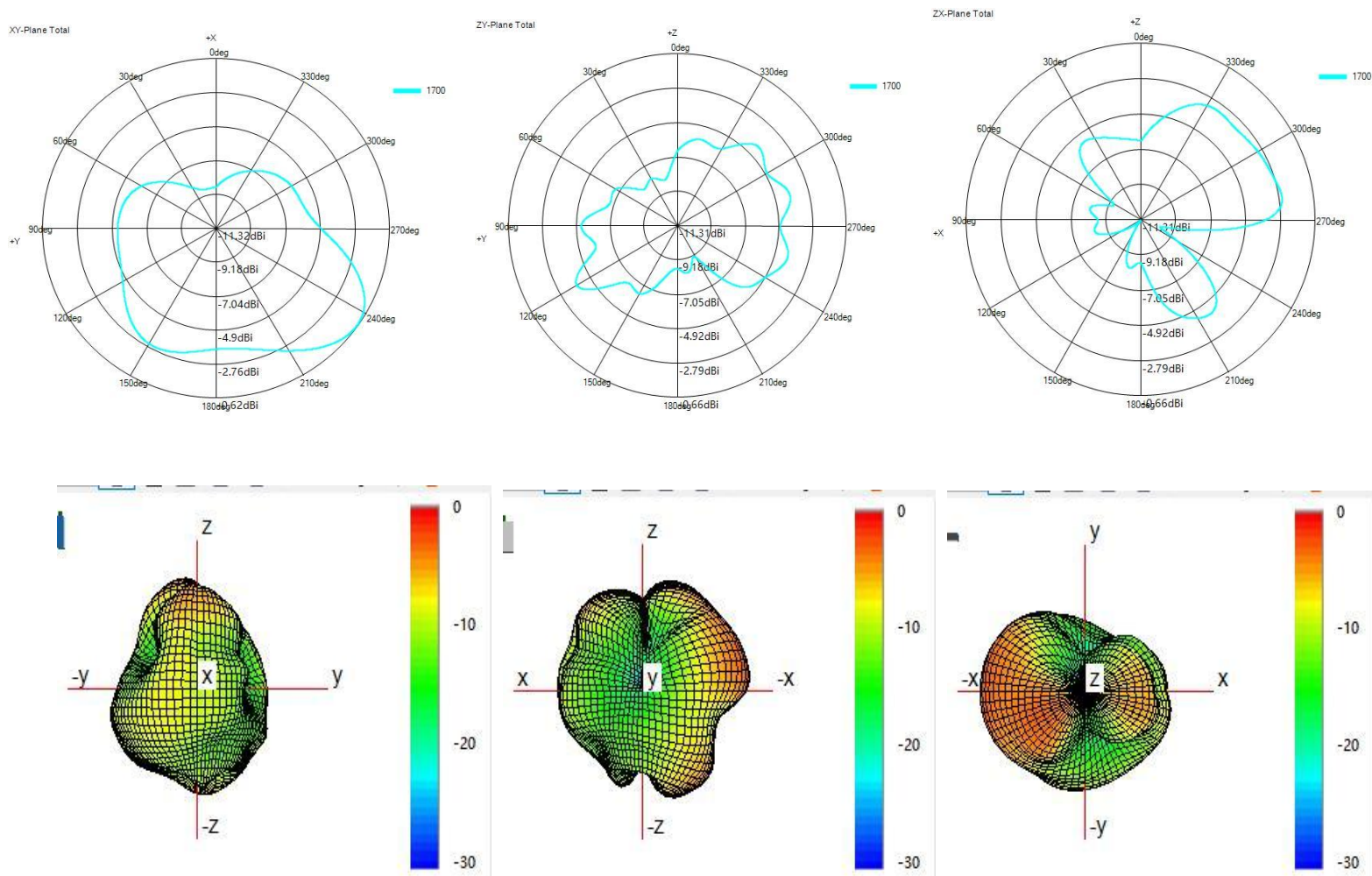


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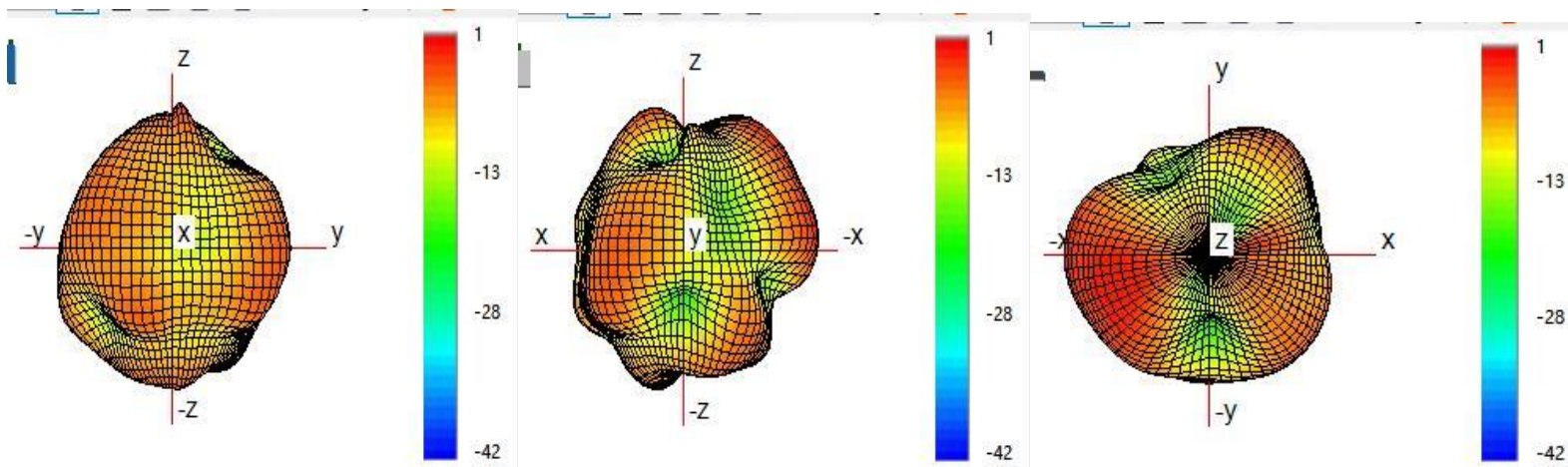
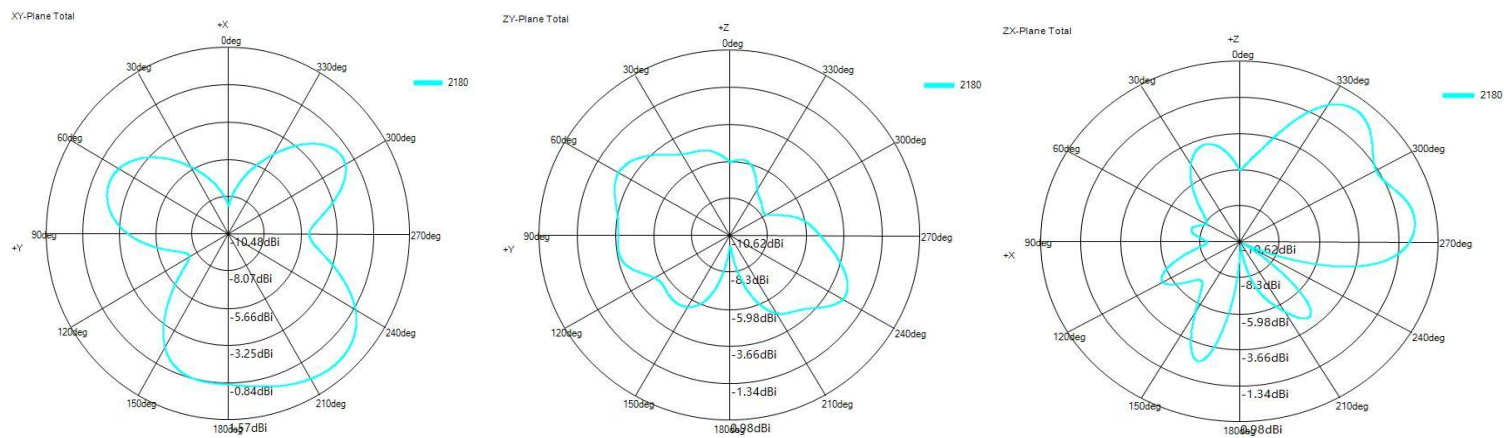
5.3:1700-2700MHZ

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1700	-0.71	-4.95	32.00	2220	1.56	-2.97	50.45
1740	-0.89	-4.67	34.16	2260	1.85	-2.93	50.96
1780	-0.25	-4.33	36.94	2300	0.99	-3.52	44.43
1820	0.36	-4.07	39.18	2340	0.37	-4.19	38.12
1860	0.57	-4.21	37.91	2380	0.24	-4.38	36.50
1900	0.38	-4.34	36.79	2420	0.88	-4.29	37.23
1940	0.92	-4.27	37.44	2460	0.90	-4.65	34.25
1980	1.23	-4.15	38.42	2500	0.49	-4.97	31.88
2020	1.36	-3.70	42.65	2540	0.05	-4.70	33.90
2060	1.22	-3.22	47.62	2580	-0.11	-4.33	36.86
2100	0.77	-3.29	46.91	2620	-0.25	-4.20	37.99
2140	0.65	-3.27	47.15	2660	-0.88	-4.67	34.14
2180	0.97	-3.28	46.96	2700	-0.85	-4.64	34.38

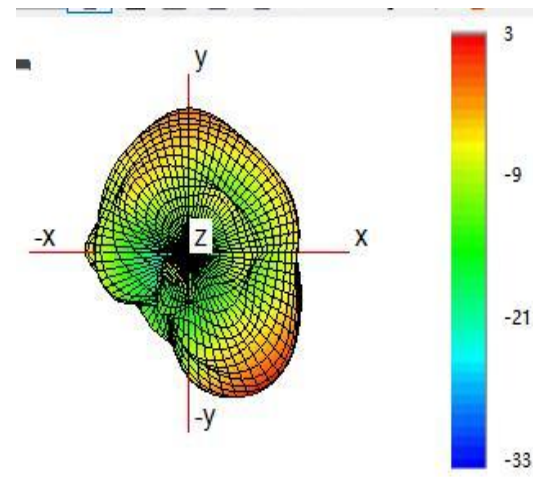
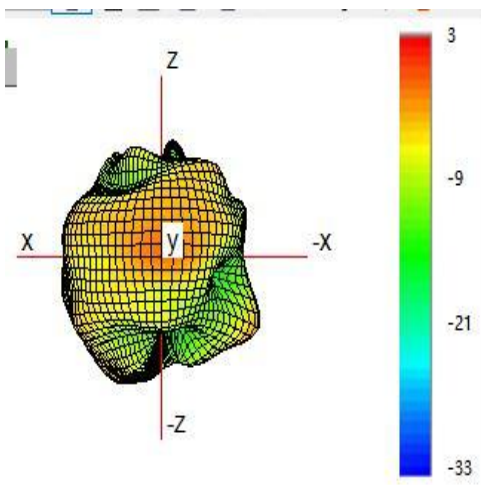
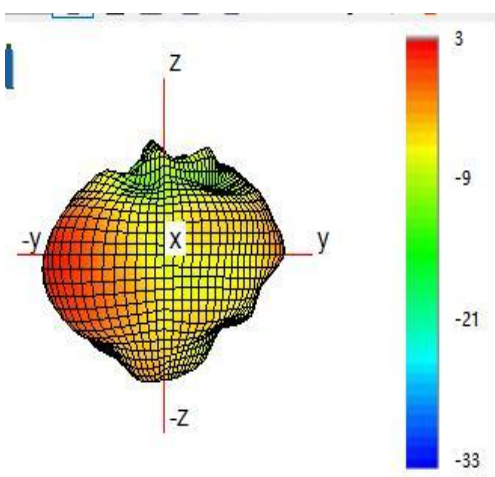
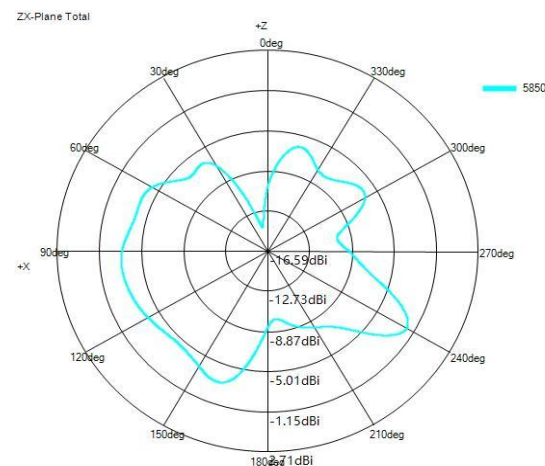
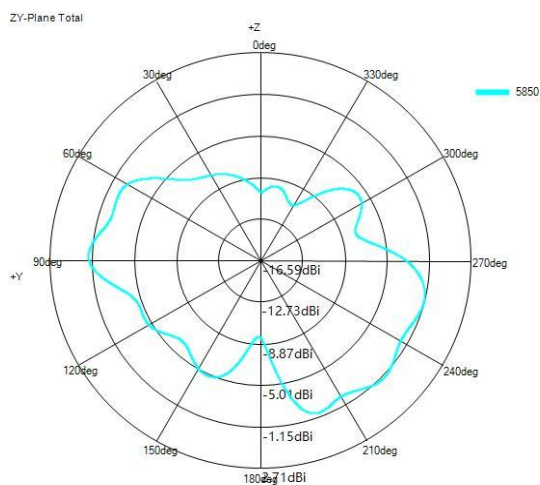
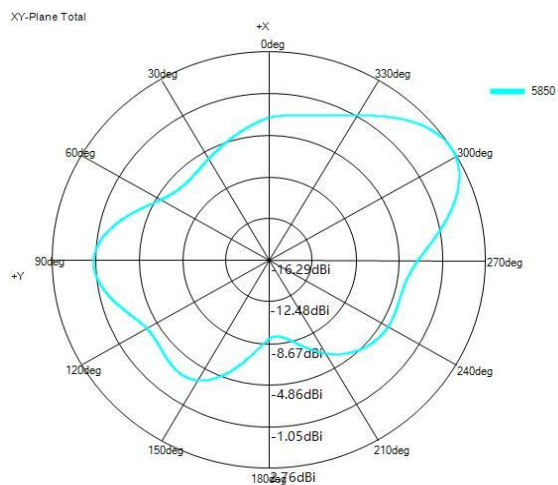
5.4 2D/3D 1700(MHz):



2000 (MHz):



2200 (MHz):



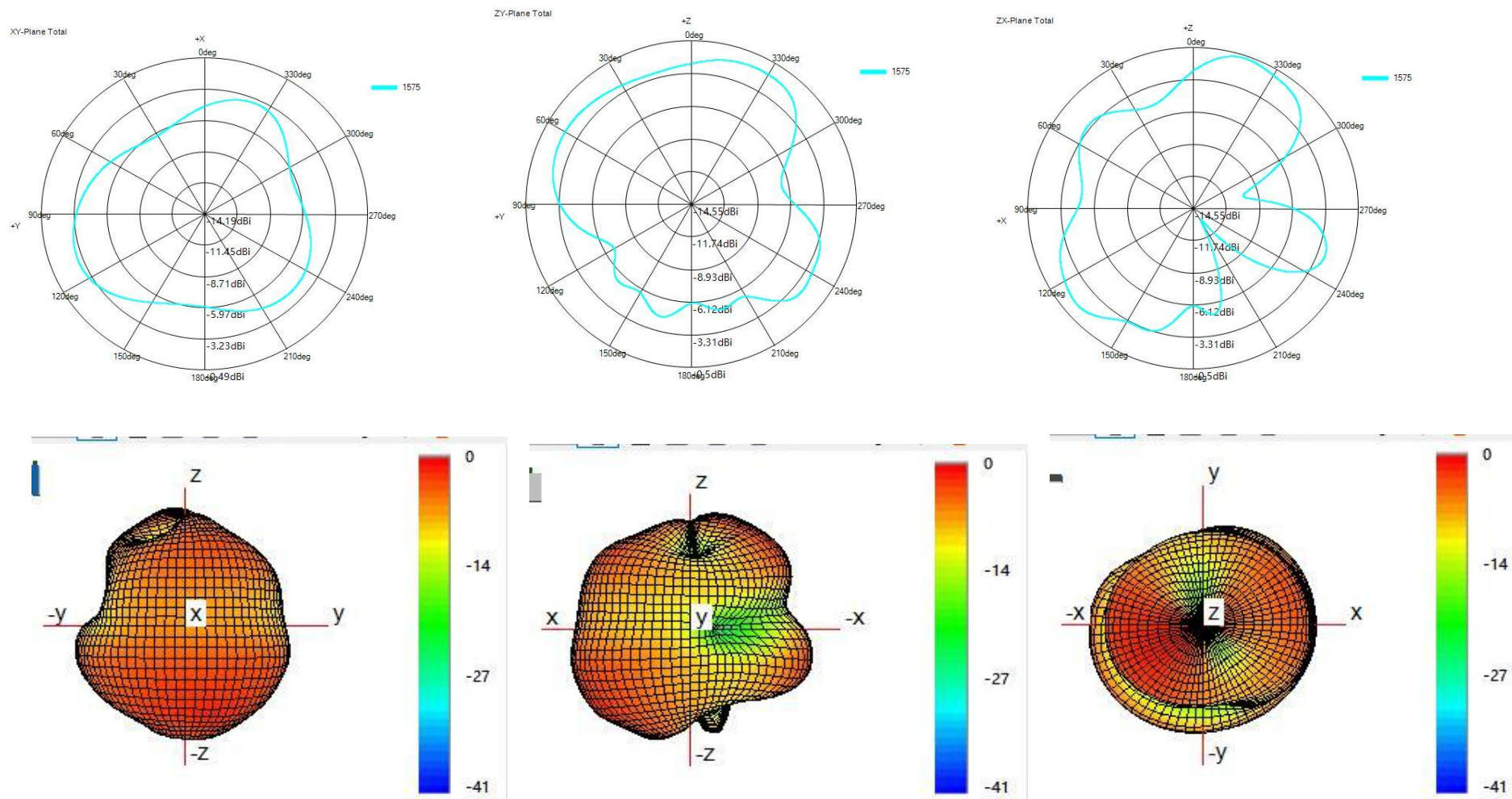


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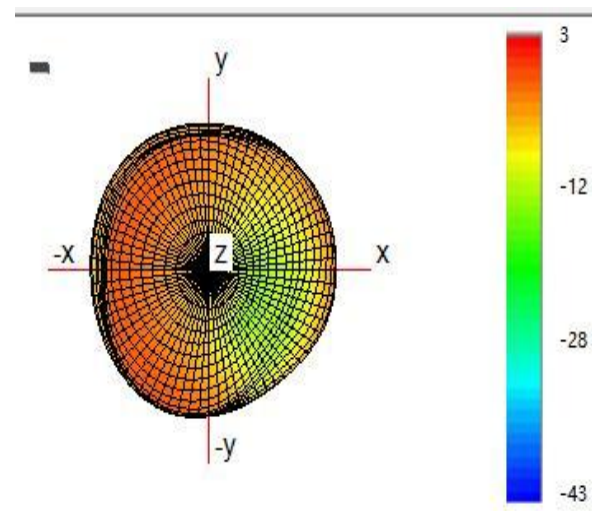
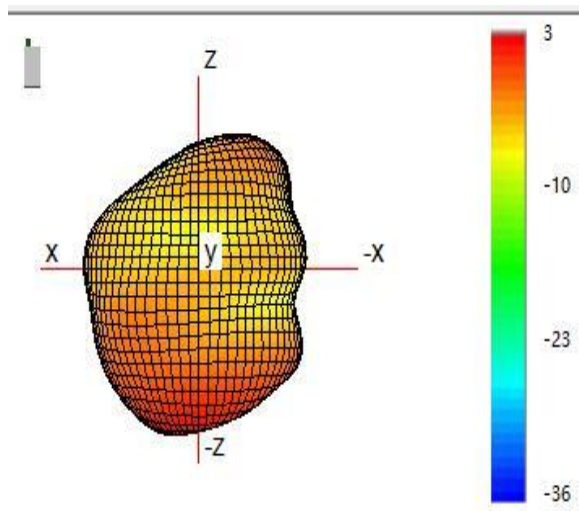
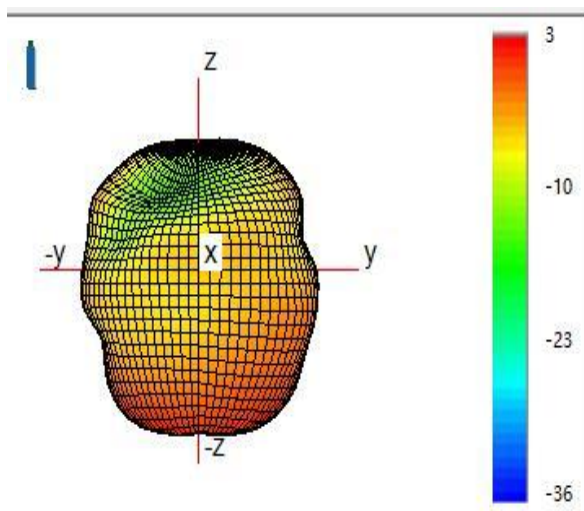
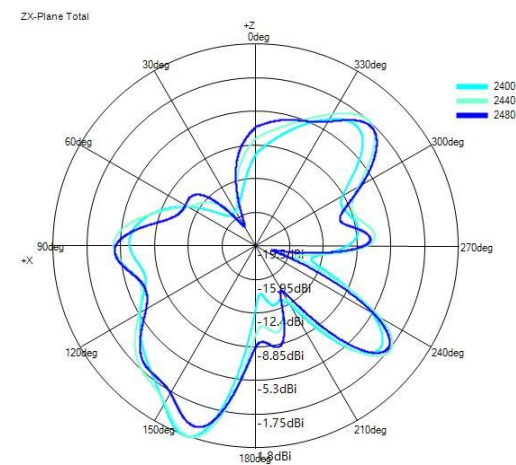
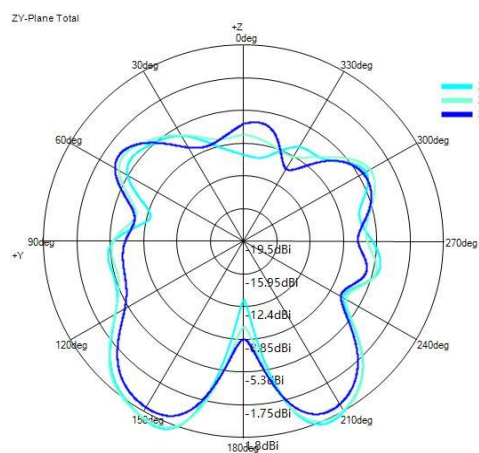
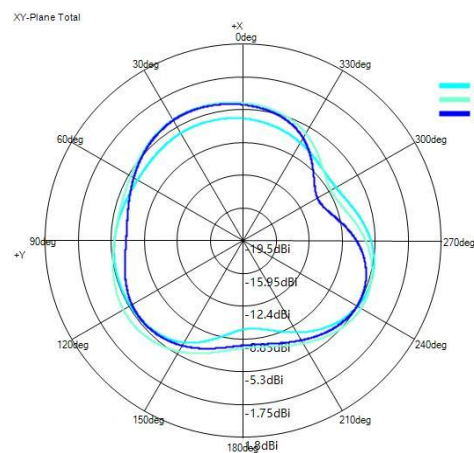
6:WIFI/GPS ANT Efficiency gain

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(dB))	Efficiency(%))	Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1560	2.51	-3.02	49.80	2450	2.27	-3.46	44.98	5450	1.36	-3.76	41.98
1565	2.55	-3.05	49.44	2460	1.99	-3.60	43.61	5500	-0.025	-5.04	31.30
1570	2.59	-3.06	49.31	2470	1.72	-3.79	41.70	5550	0.11	-4.63	34.37
1575	2.55	-3.11	48.80	2480	1.39	-4.02	39.60	5600	1.00	-3.73	42.34
1580	2.38	-3.25	47.26	2490	1.13	-4.12	38.67	5650	0.08	-4.49	35.50
1585	2.22	-3.4	45.37	2500	0.96	-4.24	37.62	5700	-0.86	-5.60	27.53
1590	2.14	-3.58	43.78	5150	0.96	-4.24	37.62	5750	0.23	-4.85	32.68
2400	2.30	-3.78	41.81	5200	0.94	-4.60	34.64	5800	1.10	-4.51	35.33
2410	2.31	-3.6	43.54	5250	1.80	-3.40	45.62	5850	0.288	-5.58	27.64
2420	2.43	-3.46	45.01	5300	2.03	-3.20	47.80				
2430	2.37	-3.48	44.79	5350	0.77	-4.54	35.09				
2440	2.28	-3.43	45.31	5400	0.59	-4.51	35.36				

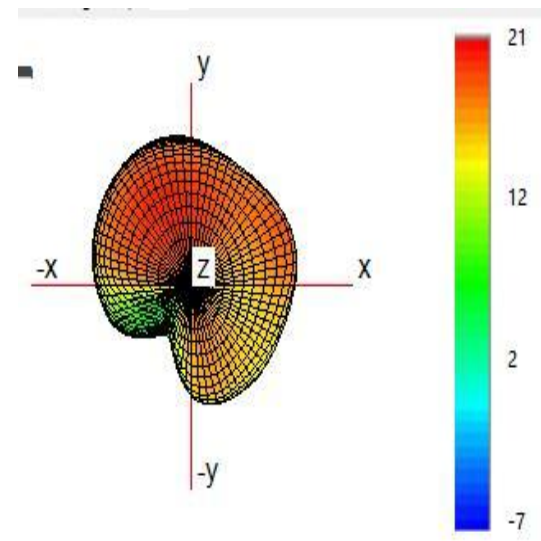
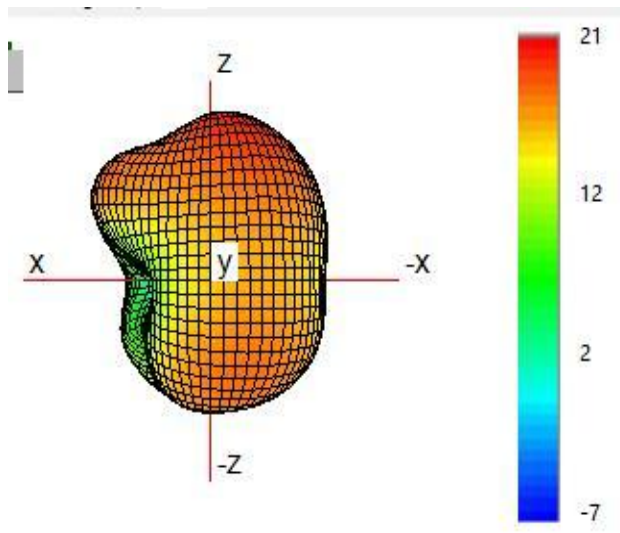
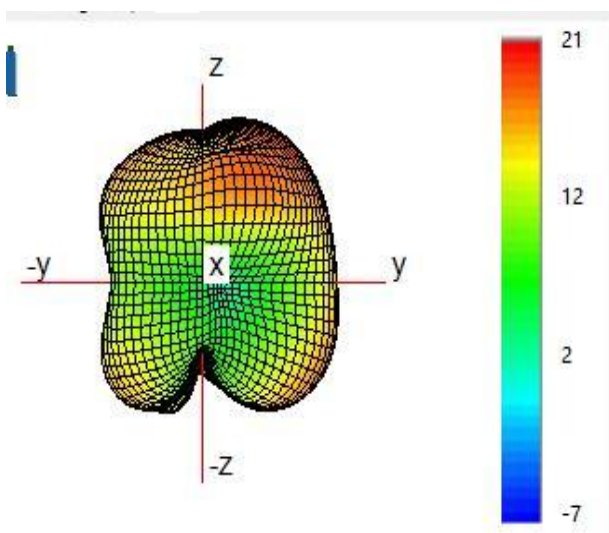
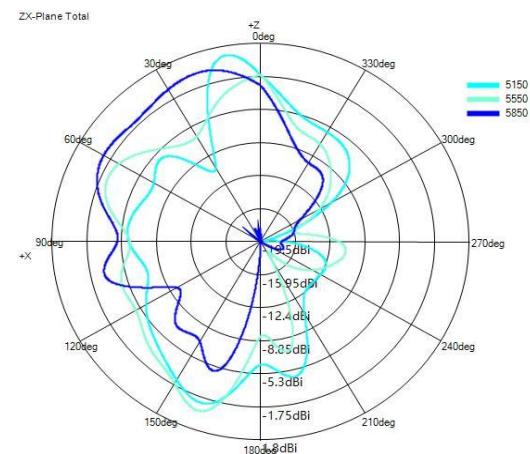
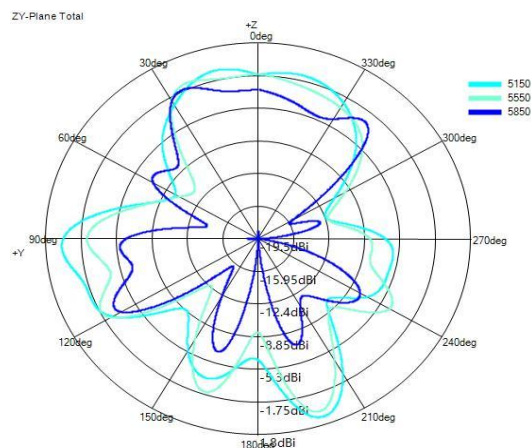
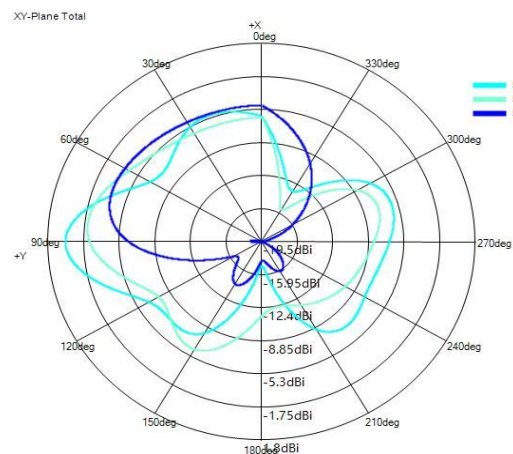
6.1 2D/3D 1575(MHz):



6.2 2D/3D 2400-2500 (MHz):



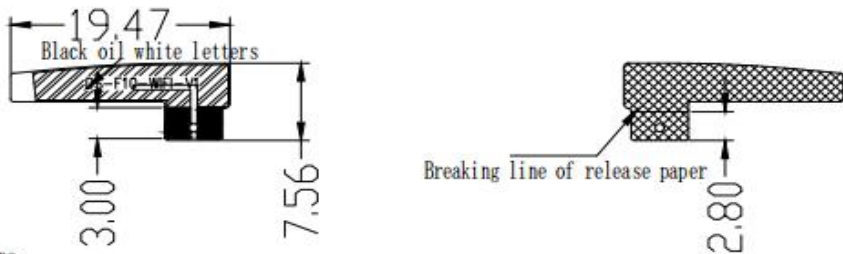
6.3 2D/3D 5150-5850 (MHz):

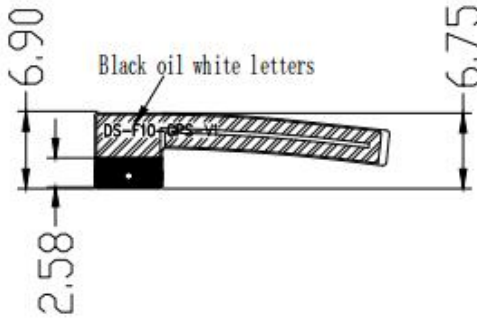
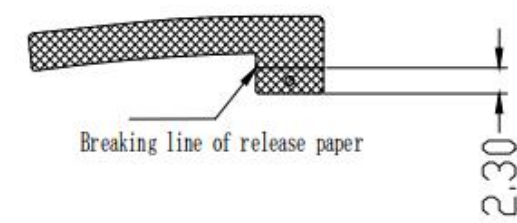


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