



深圳市安威无线科技有限公司

Shenzhen Anwei Wireless Technology Co., Ltd

L611B Test Report

Anwei RF : XuLong

Mobile number : 15915343126

Address: 2nd Floor, Building 5, Hualian Industrial Park, Huaning Road, Dalang Street, Longhua District, Shenzhen



Main antenna test data (free)

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
FDD B1	18050	17.24		FDD B17	23790	15.31		FDD B66	132022	16.32	
	18300	17.57			23790	15.48			132322	16.41	
	18550	17.68	-91.59		23790	15.72	-89.05		132622	16.59	-91.59
FDD B2	18650	15.56		FDD B18	23900	17.36		TDD (B34)	36250	18.26	
	18900	16.12			23925	17.54			36275	18.19	
	19150	16.14	-92.54		23950	17.67	-91.32		36300	18.32	-91.41
FDD B3	19250	17.13		FDD B19	24050	17.38		TDD (B38)	37850	17.15	
	19575	17.28			24075	17.49			38000	17.24	
	19900	17.23	-91.72		24100	17.64	-91.14		38150	17.36	-90.56
FDD B4	20000	16.74		FDD B20	24200	17.31		TDD (B39)	38350	16.25	
	20175	16.56			24300	17.48			38450	16.54	
	20350	16.21	-91.35		24400	17.75	-90.03		38550	16.67	-90.47
FDD B5	20450	17.26		FDD B25	26090	15.63		TDD (B40)	38750	17.34	
	20525	17.53			26365	16.04			39150	17.49	
	20600	17.76	-91.32		26640	16.41	-91.35		39550	17.36	-89.72
FDD B7	20800	15.12		FDD B26	26740	16.41		TDD (B41)	40340	16.54	
	21100	16.38			26865	17.32			40620	16.73	
	21400	17.21	-89.12		26990	18.16	-91.25		41140	17.28	-90.57
FDD B8	21500	17.78		FDD B28A	27260	15.68					
	21625	17.62			27370	16.04					
	21750	17.24	-89.24		27469	16.37	-90.47				
FDD B12	23060	15.03		FDD B28B	27410	16.14					
	23095	15.16			27510	16.34					
	23130	15.57	-90.52		27600	16.52	-90.56				

Main antenna test data (free)

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
WCDMA B1	10562	17.23		PCS 1900	512	23.54					
	10700	17.45			661	23.62					
	10838	17.57	-103.7		810	23.32	-103.7				
WCDMA B2	9262	16.12									
	9400	16.05									
	9538	17.03	-103.6								
WCDMA B4	1312	17.16									
	1413	17.25									
	1513	17.41	-103.5								
WCDMA B5	4132	17.15									
	4183	17.26									
	4233	17.54	-103.8								
WCDMA B8	2712	18.15									
	2787	17.74									
	2863	17.48	-102.3								
GSM 850	128	25.36									
	190	26.02									
	251	26.24	-103.2								
GSM 900	1	26.34									
	62	26.54									
	124	27.18	-101.8								
DCS1800	512	24.51									
	698	25.14									
	885	24.62	-102.7								

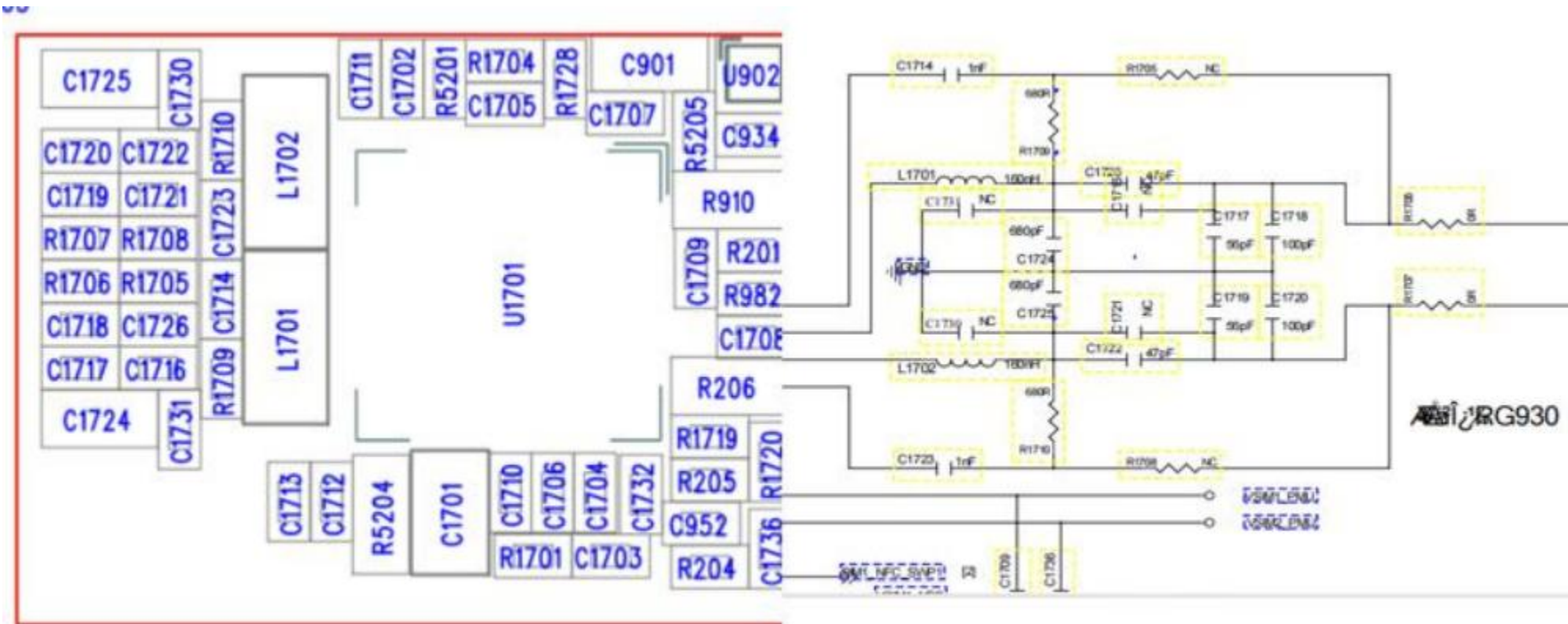
GPS



WIFI

WIFI-B (2.4G)	L	13.65	-80.68
	M	13.71	-81.12
	H	13.84	-81.23
		11.45	-71.48
WIFI-A (5G)	L	11.03	-72.74
	M	11.12	-70.52
	H	13.65	-70.68

NFC schematic diagram



Main Antenna efficiency&gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	700	710	720	730	740	750	760	770	780	790	800
Gain (dBi)	-3.86	-3.81	-2.96	-3.14	-2.35	-1.91	-1.03	-2.18	-1.74	-2.19	-1.91
Efficiency (dB)	-8.59	-8.42	-7.46	-7.61	-6.82	-6.59	-5.80	-6.74	-6.21	-6.27	-5.69
Efficiency (%)	13.84	14.38	17.95	17.33	20.80	21.95	26.29	21.20	23.96	23.61	26.98

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	800	810	820	830	840	850	860	870	880	890	900
Gain (dBi)	-1.30	-1.08	-1.28	-1.23	-1.10	-0.52	-1.13	-1.10	-1.71	-1.57	-2.24
Efficiency (dB)	-5.09	-4.57	-4.45	-4.09	-4.20	-3.85	-4.63	-4.62	-5.47	-5.42	-6.30
Efficiency (%)	30.95	34.89	35.90	39.00	37.99	41.24	34.44	34.48	28.36	28.71	23.47

Frequency ID	1	2	3	4	5	41	42	43	44	45	46
Frequency (MHz)	900	920	940	960	980	1700	1720	1740	1760	1780	1800
Gain (dBi)	-1.04	-1.34	-2.88	-5.58	-7.69	1.95	1.44	0.96	0.98	0.72	0.16
Efficiency (dB)	-5.26	-6.06	-7.69	-9.87	-12.71	-4.36	-4.11	-4.40	-4.33	-4.94	-5.66
Efficiency (%)	29.80	24.78	17.02	10.31	5.35	36.60	38.81	36.30	36.93	32.08	27.15

Frequency ID	47	48	49	50	51	52	53	54	55	56	57
Frequency (MHz)	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000	2020
Gain (dBi)	0.85	0.26	-0.08	0.35	1.18	0.78	1.08	1.02	0.99	0.65	1.45
Efficiency (dB)	-5.11	-5.75	-5.88	-5.53	-4.80	-5.02	-4.40	-4.26	-4.36	-4.57	-3.91
Efficiency (%)	30.82	26.62	25.85	27.97	33.11	31.44	36.35	37.52	36.62	34.88	40.64

Frequency ID	58	59	60	61	62	63	64	65	66	67	68
Frequency (MHz)	2040	2060	2080	2100	2120	2140	2160	2180	2200	2220	2240
Gain (dBi)	0.88	1.15	1.92	2.02	1.37	2.12	2.46	2.15	3.04	2.59	2.59
Efficiency (dB)	-4.49	-4.18	-3.99	-3.97	-4.22	-3.66	-3.54	-3.70	-3.27	-3.14	-3.15
Efficiency (%)	35.60	38.20	39.92	40.05	37.83	43.09	44.28	42.65	47.04	48.52	48.46

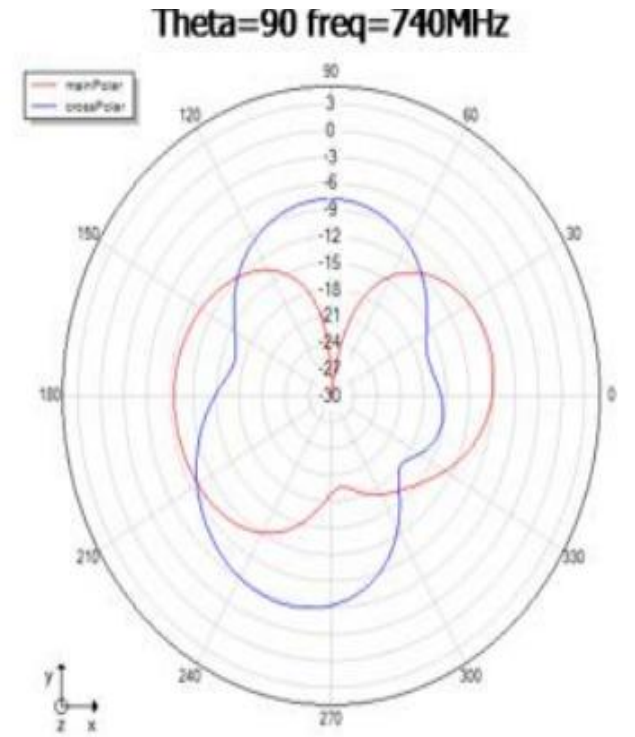
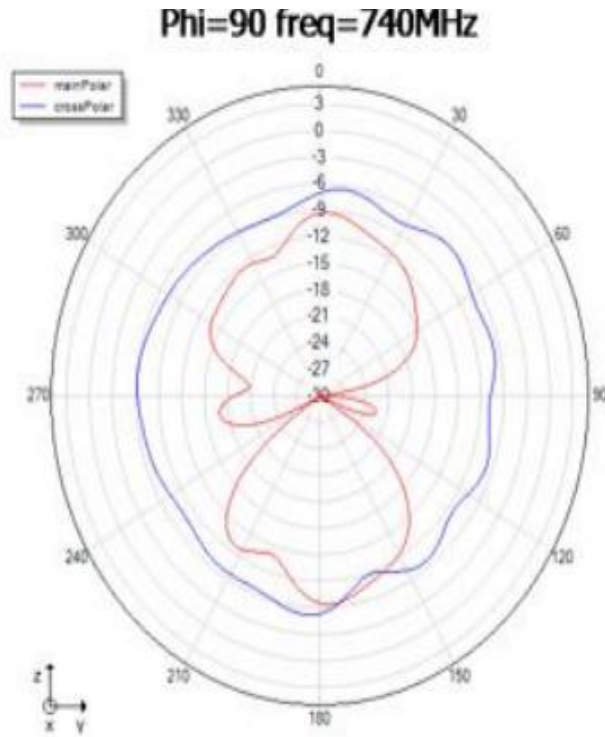
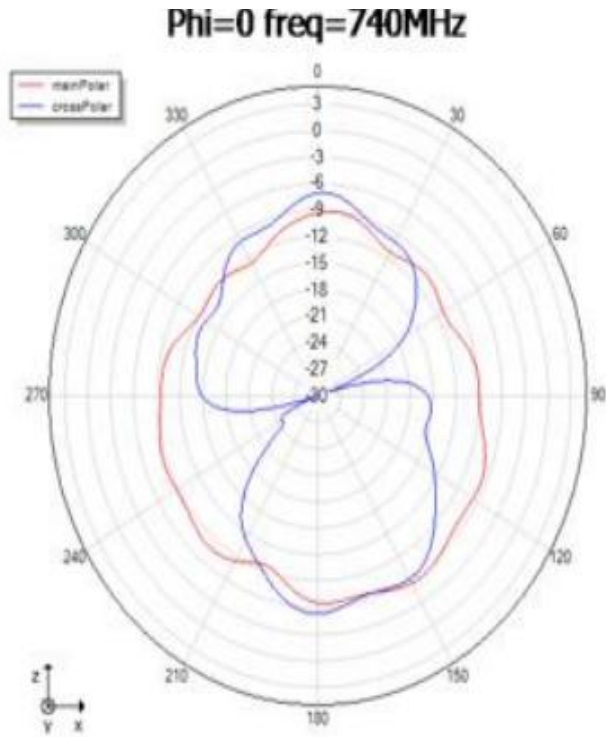
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Frequency (MHz)	2260	2280	2300	2320	2340	2360	2380	2400	2420	2440	2460
Gain (dBi)	2.88	2.68	2.55	1.92	1.73	2.48	1.38	2.27	2.70	2.07	2.34
Efficiency (dB)	-3.03	-3.11	-3.36	-3.35	-3.76	-3.43	-4.14	-3.65	-3.71	-4.12	-3.88
Efficiency (%)	49.75	48.89	46.11	46.26	42.10	45.39	38.53	43.12	42.55	38.72	40.96

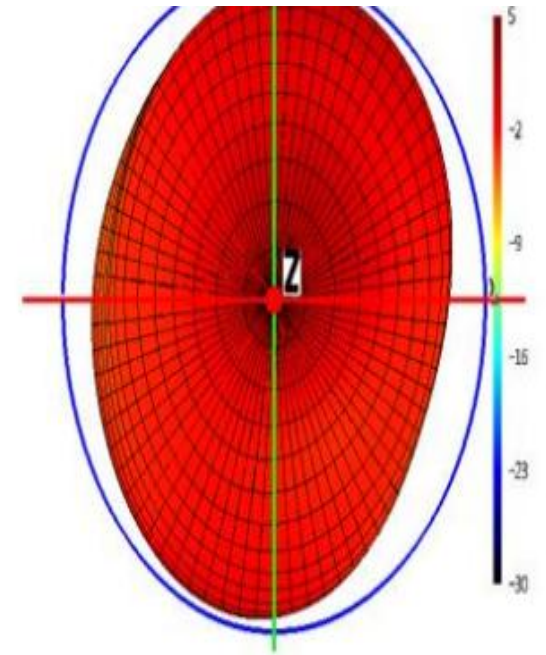
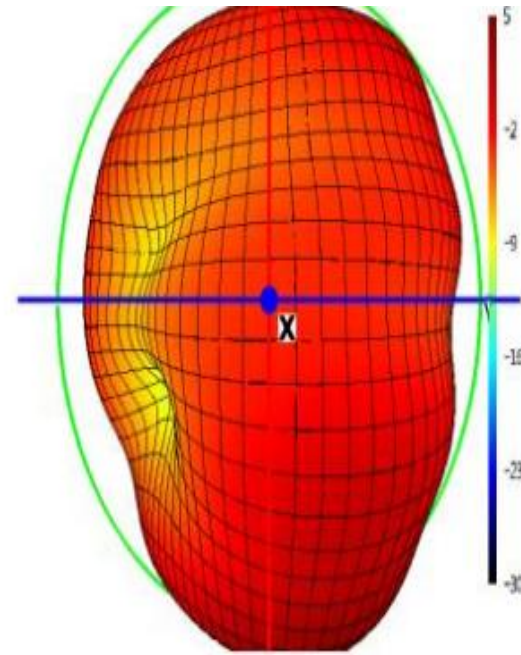
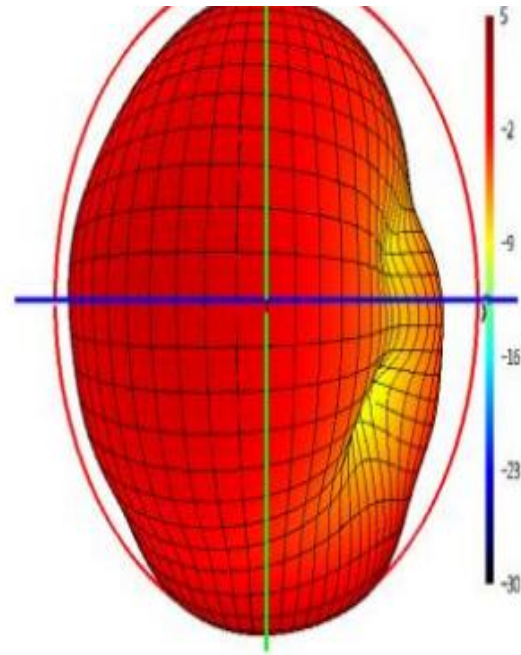
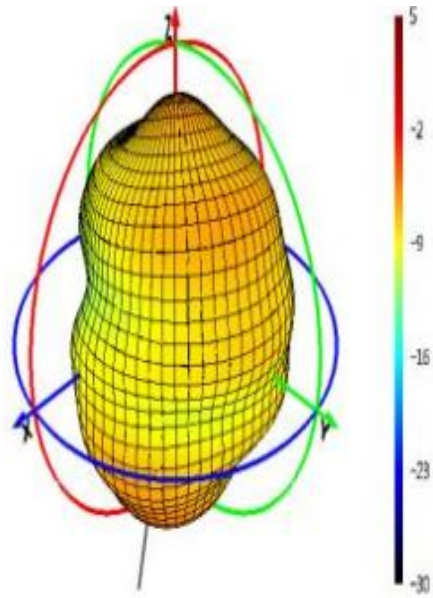
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Frequency (MHz)	2480	2500	2520	2540	2560	2580	2600	2620	2640	2660	2680	2700
Gain (dBi)	2.19	2.53	2.34	3.03	3.03	3.10	2.74	3.91	2.54	3.07	2.95	2.74
Efficiency (dB)	-3.78	-3.84	-4.32	-3.67	-4.13	-3.98	-4.16	-3.44	-4.37	-3.85	-4.16	-4.07
Efficiency (%)	41.84	41.33	37.00	42.98	38.65	40.03	38.41	45.25	36.59	41.21	38.35	39.18

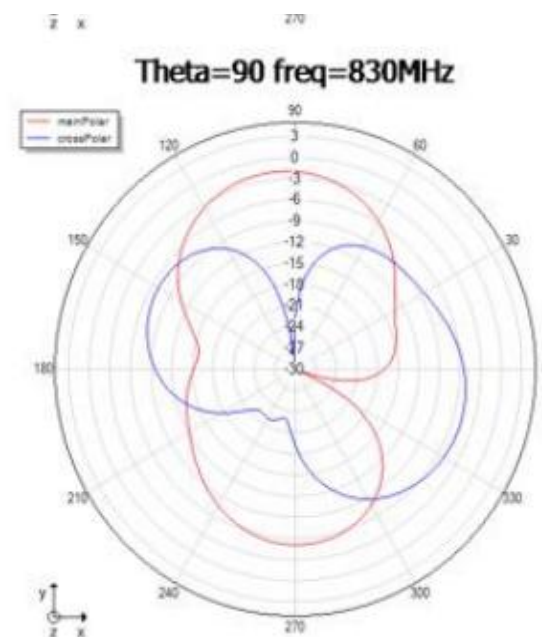
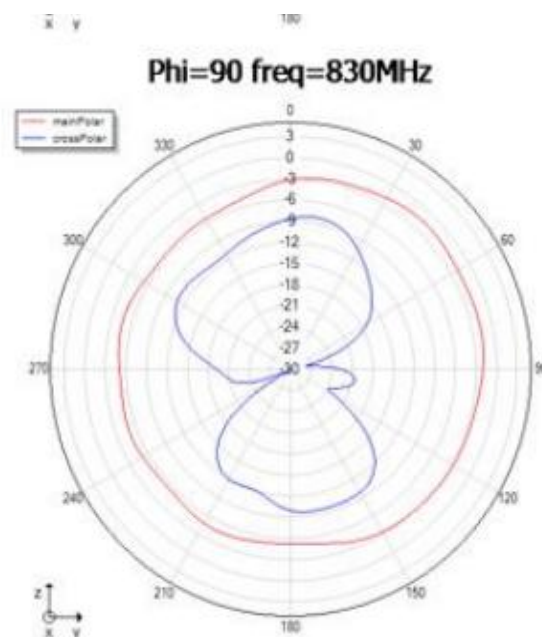
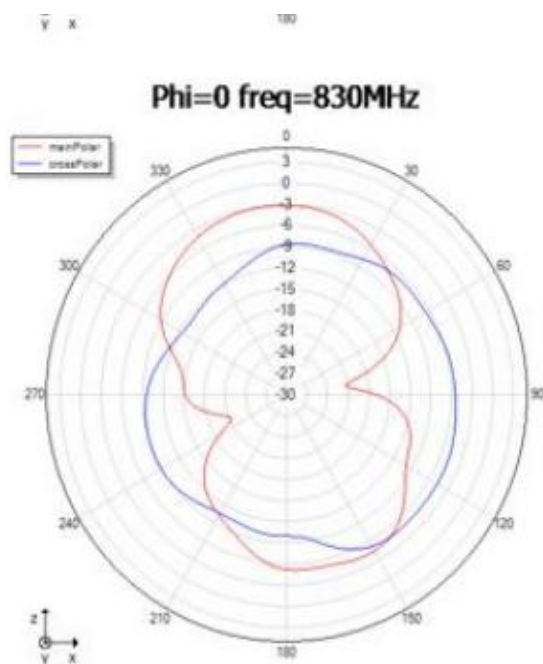


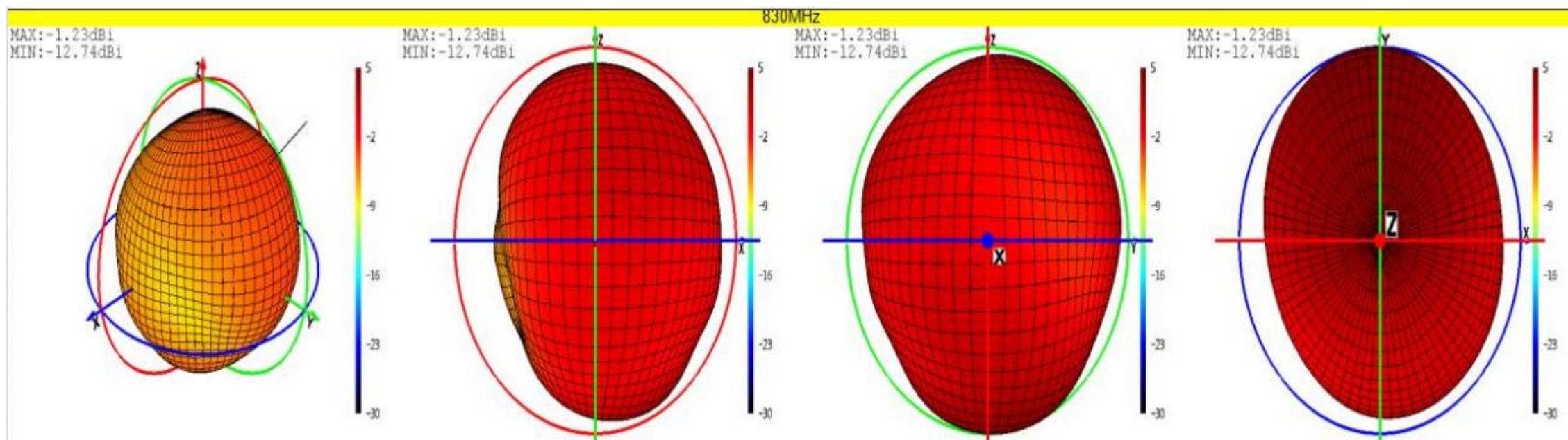
GPS/W i F i Antenna eff ic ien cy&ga in

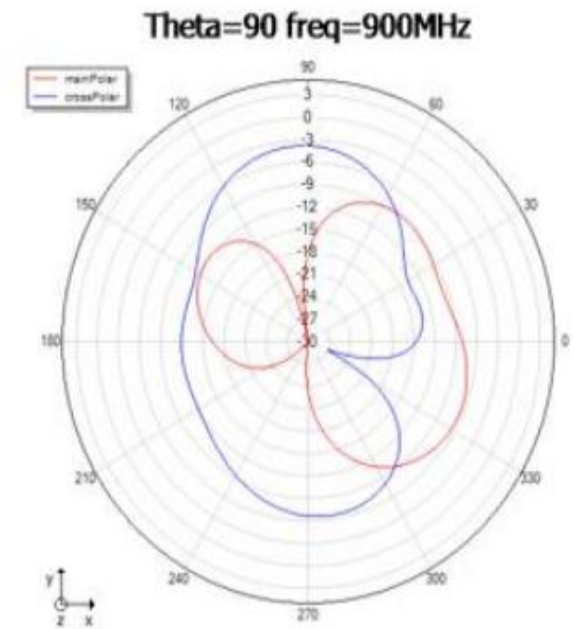
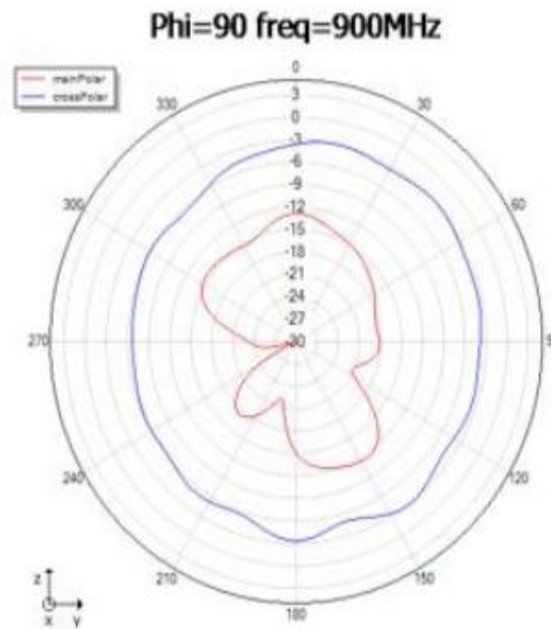
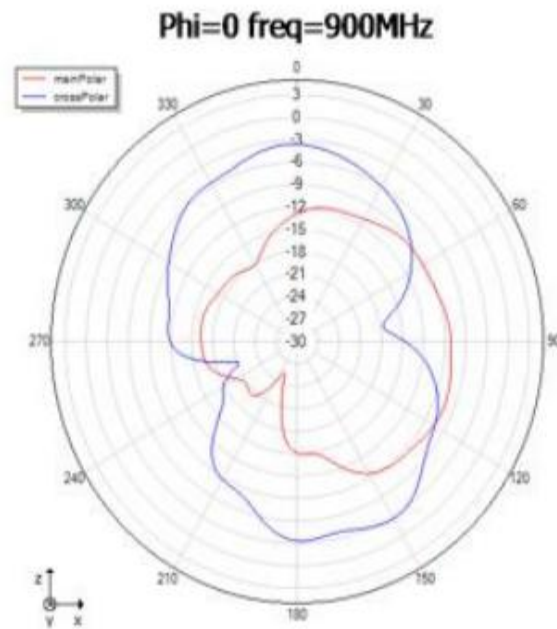
Frequency ID	1	2	3	4	5	6	7	8	9
Frequency（MHz）	1570	1575	1580	2400	2450	2500	5100	5300	5800
Gain（dBi）	2.21	2.21	2.19	0.15	-0.17	-0.49	1.83	2.22	2.08
Efficiency（dB）	-2.88	-2.93	-3.02	-6.15	-6.39	-6.36	-2.85	-2.86	-4.06
Efficiency（%）	51.54	50.93	49.87	25.25	24.95	24.11	51.89	51.74	39.26



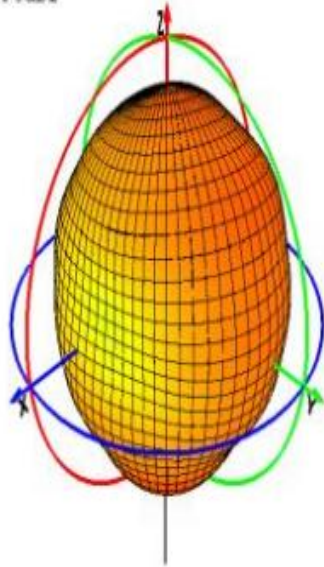




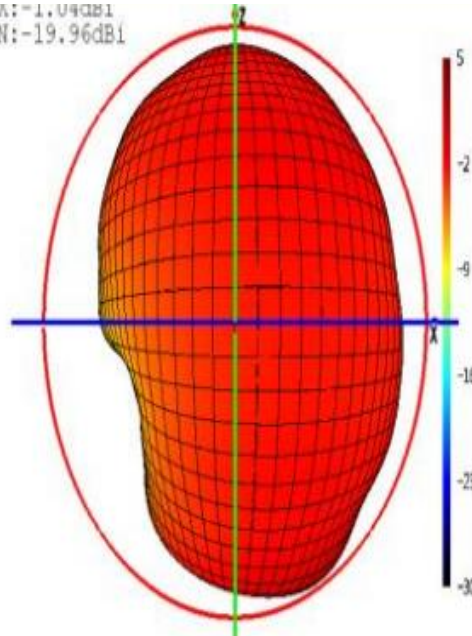




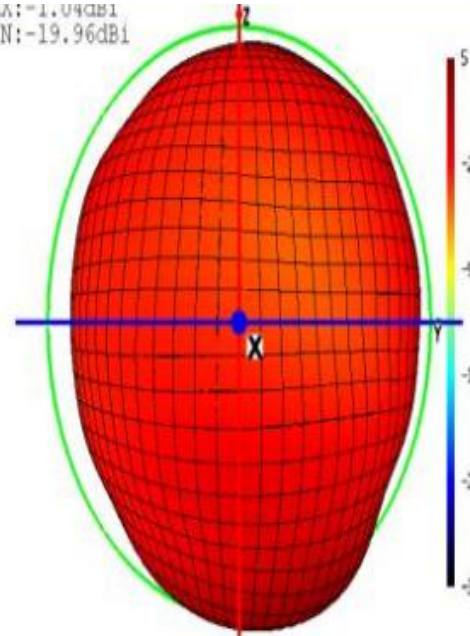
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MIN: -19.96dBi



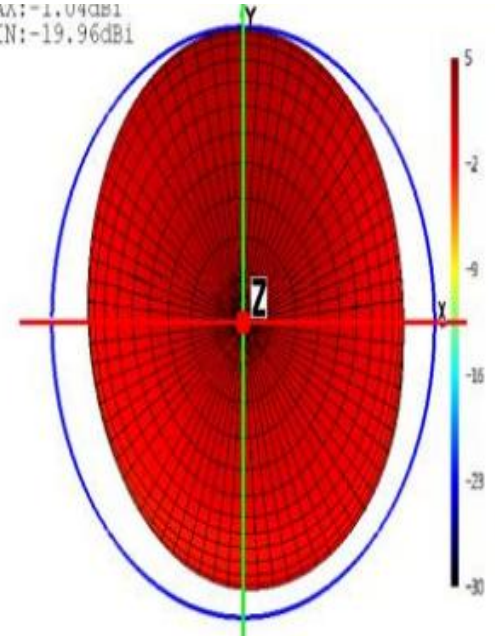
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MIN: -19.96dBi

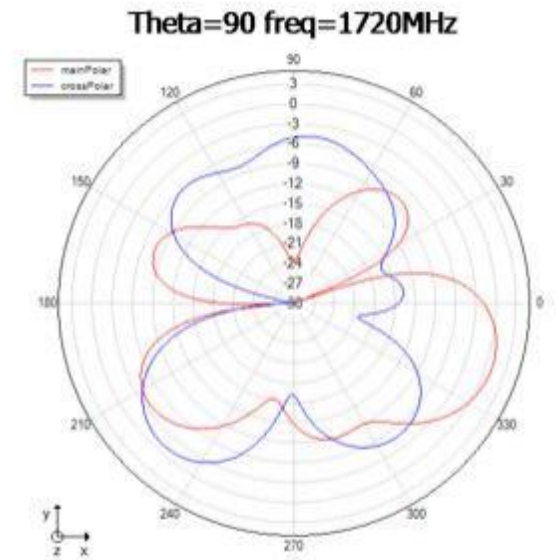
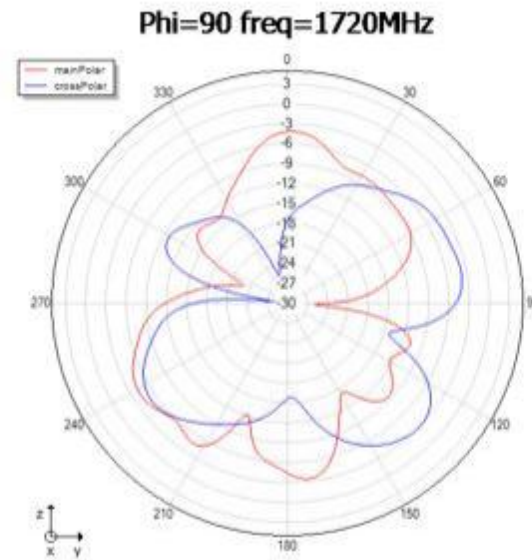
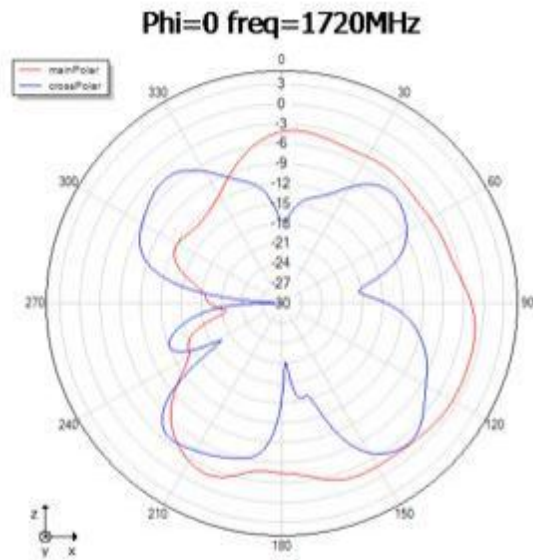


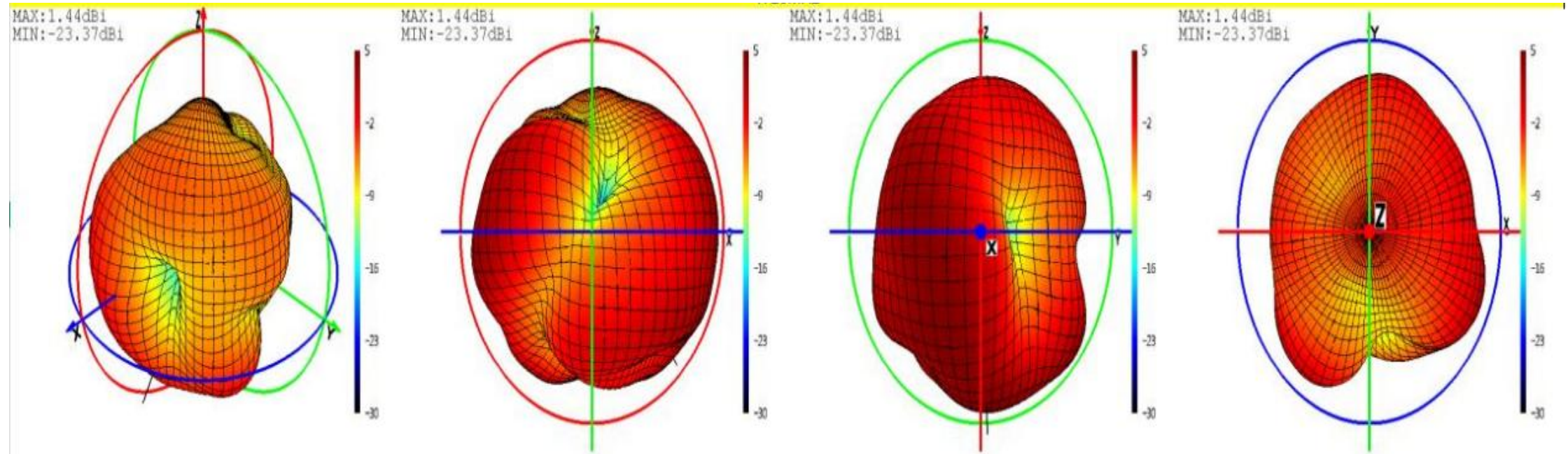
MAX: -1.04dBi
MIN: -19.96dBi



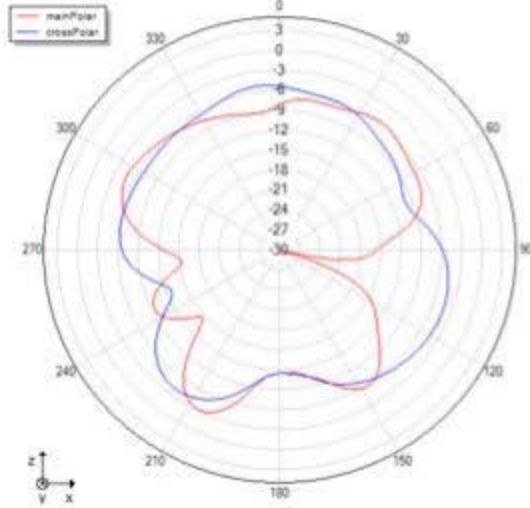
MAX: -1.04dBi
MIN: -19.96dBi



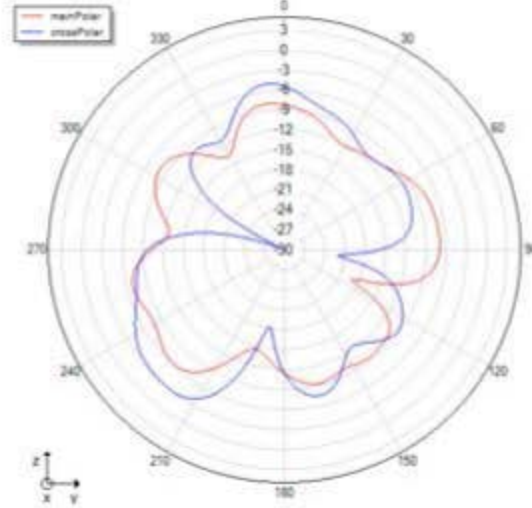




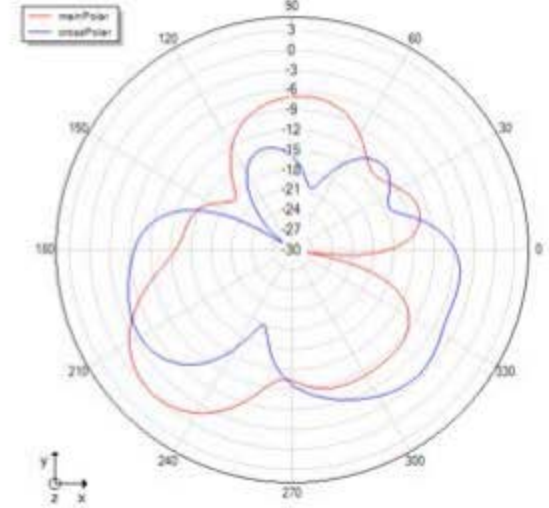
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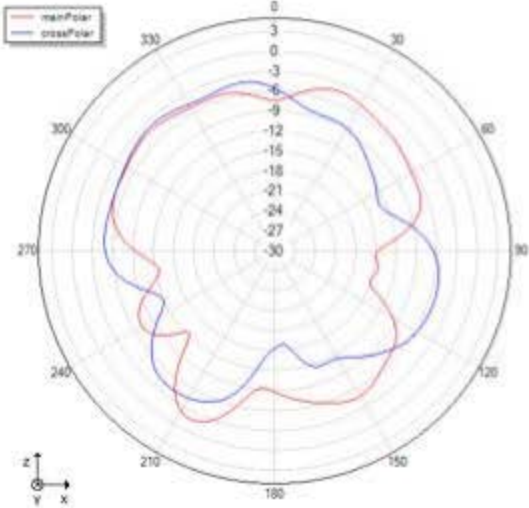
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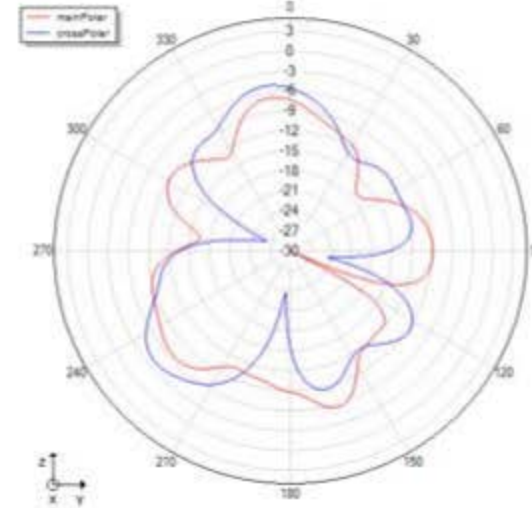
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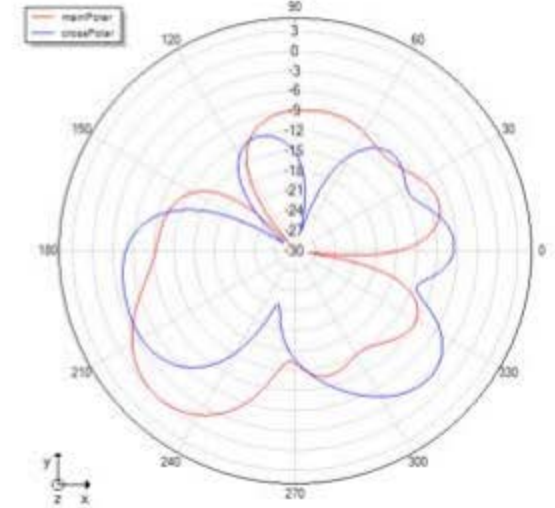
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Phi=90 freq=2020MHz



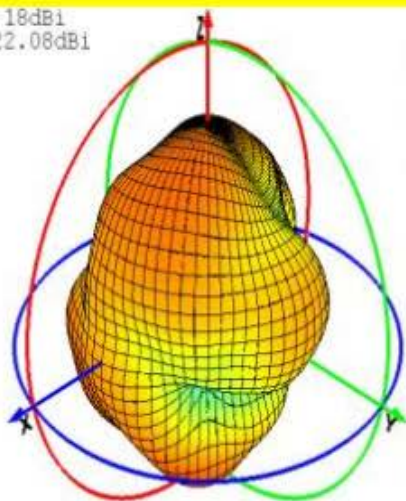
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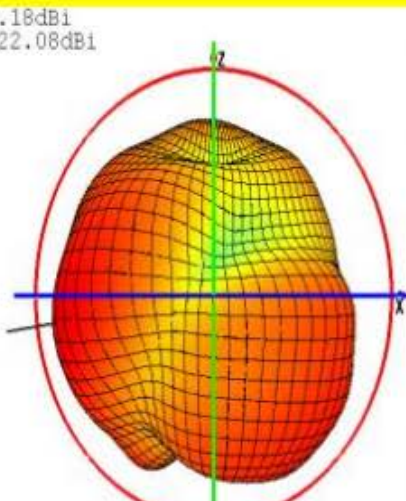
LTE B1/2/34/39 GSM1900 W1/2 Apple Diagram and Direction Chart

1900MHz

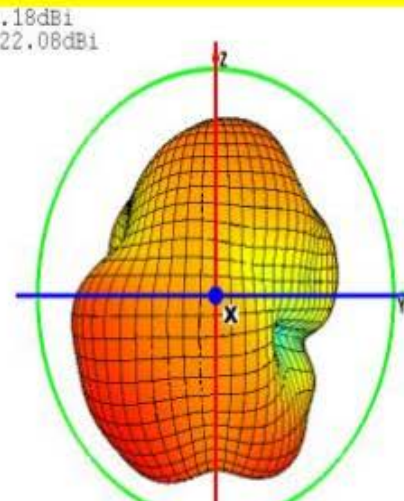
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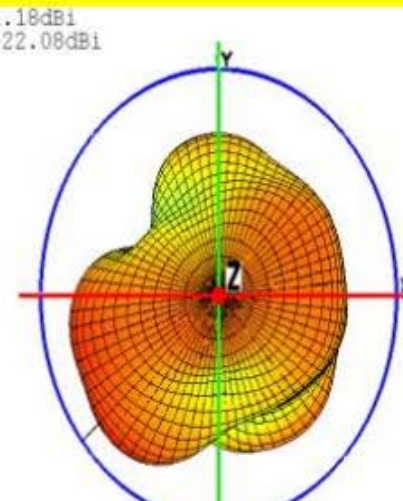
MAX:1.18dBi
MIN:-22.08dBi



MAX:1.18dBi
MIN:-22.08dBi

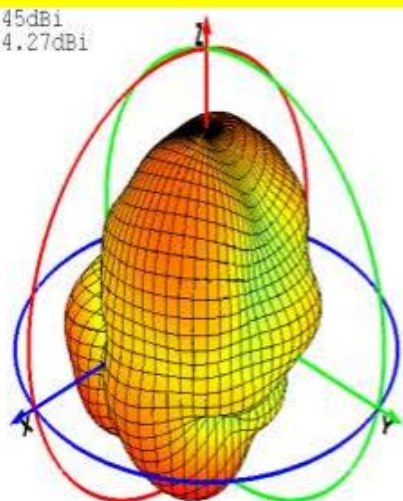


MAX:1.18dBi
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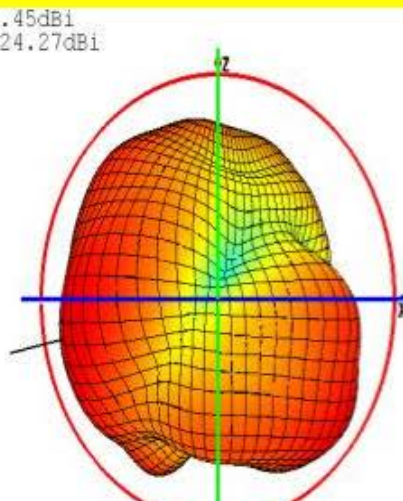


2020MHz

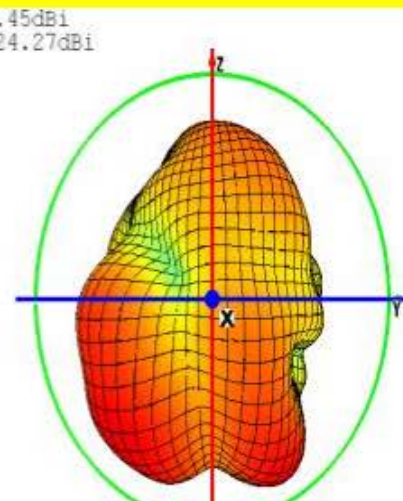
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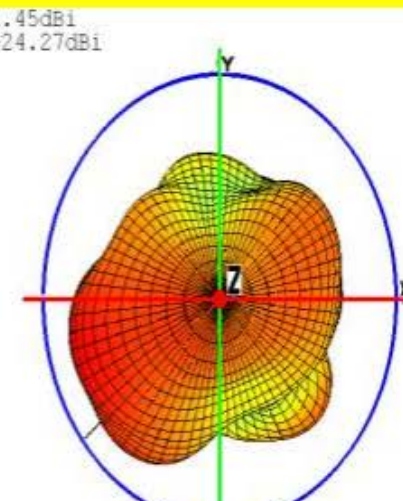
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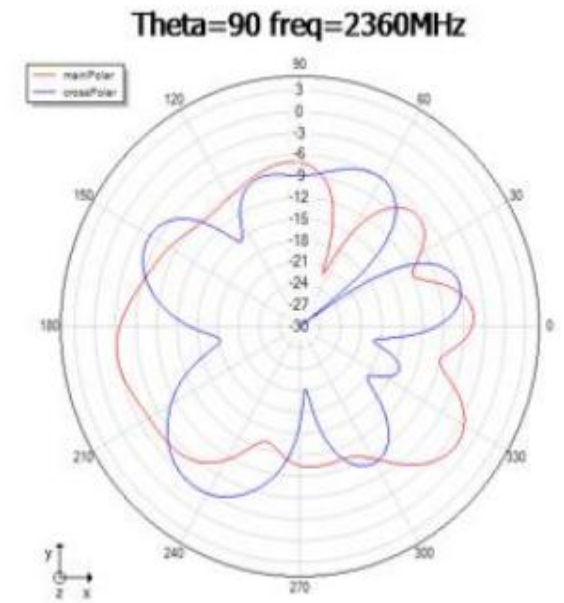
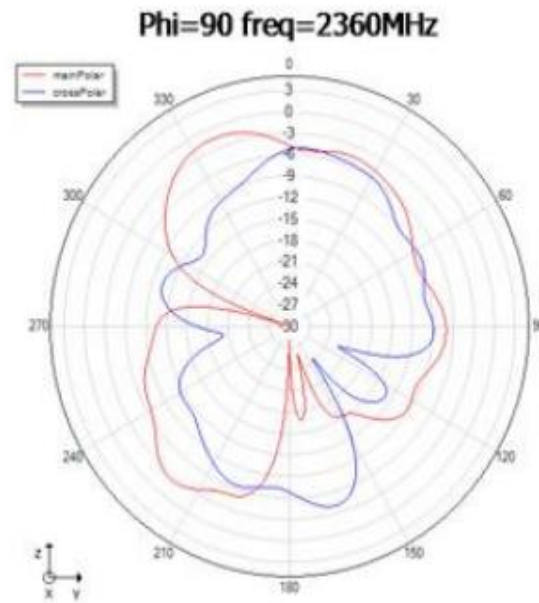
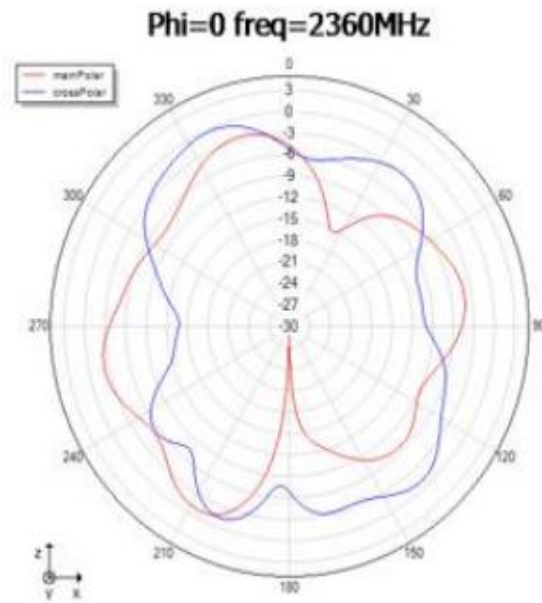


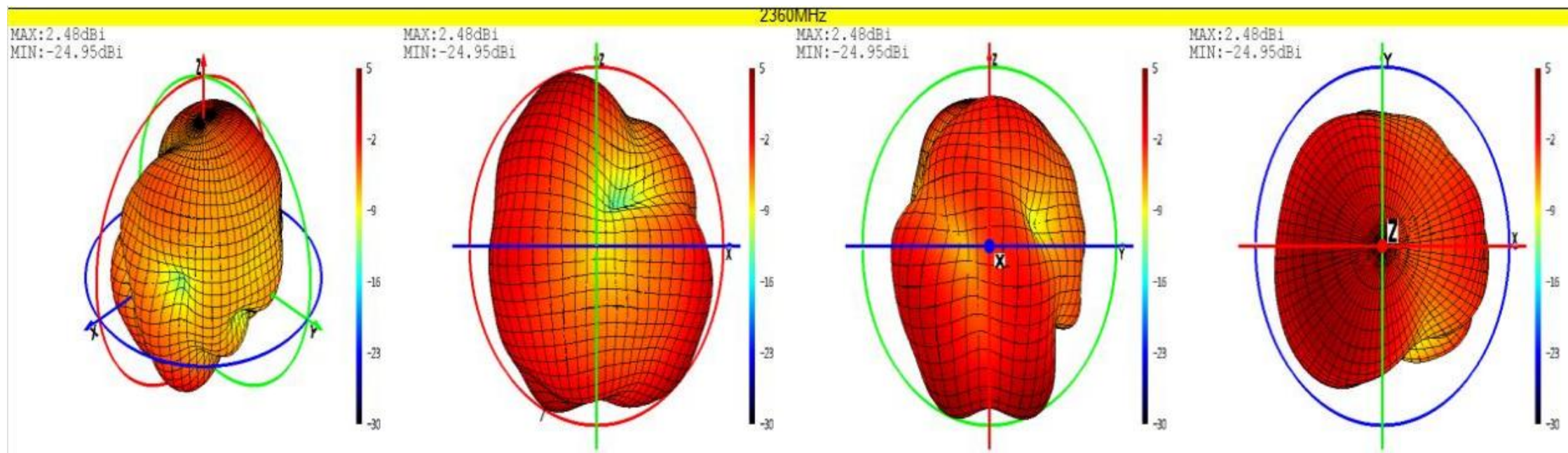
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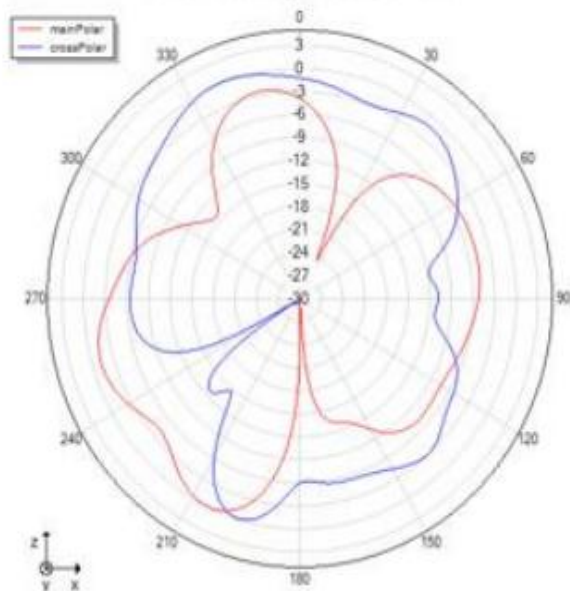
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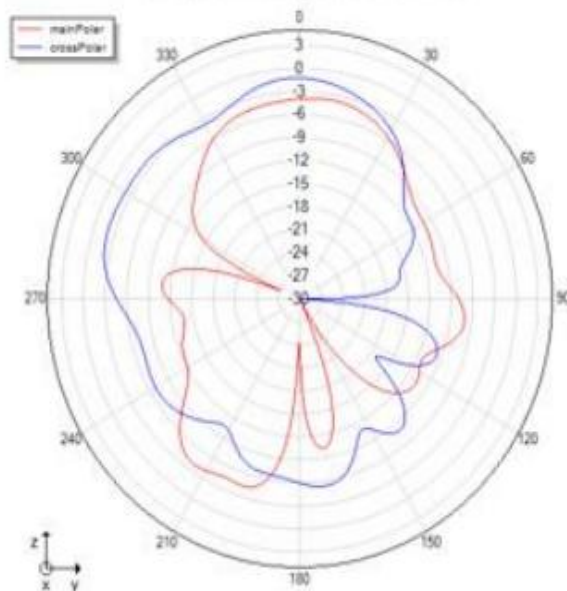




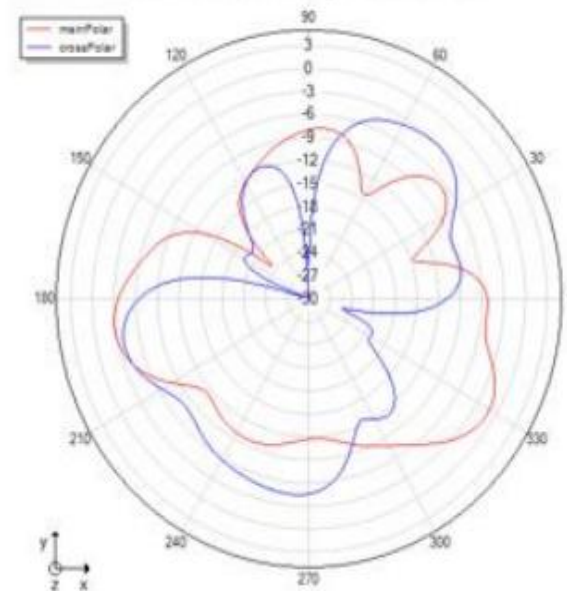
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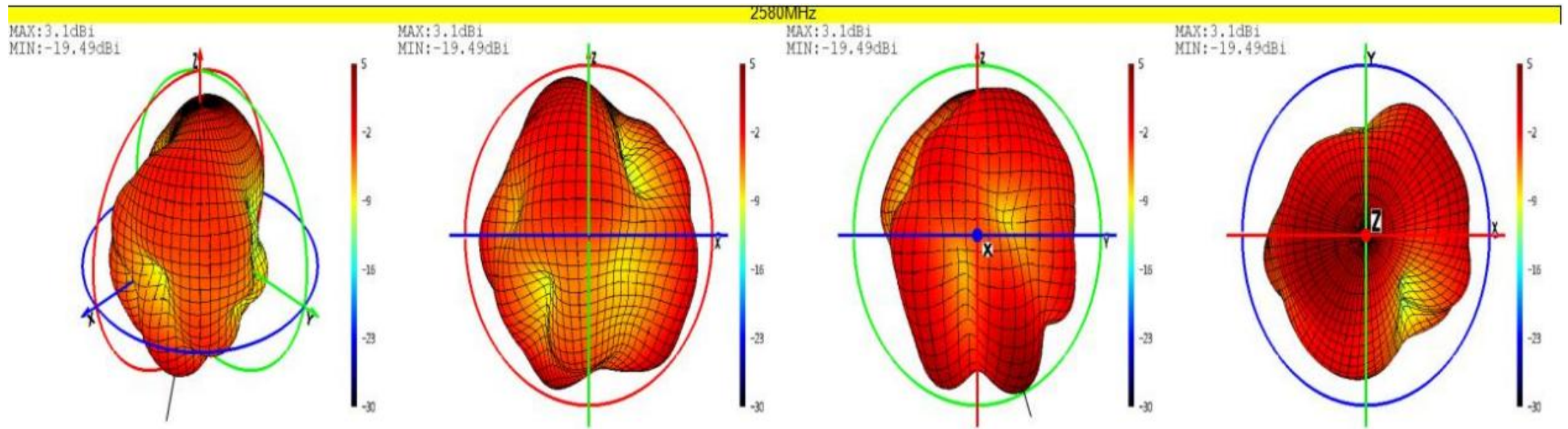


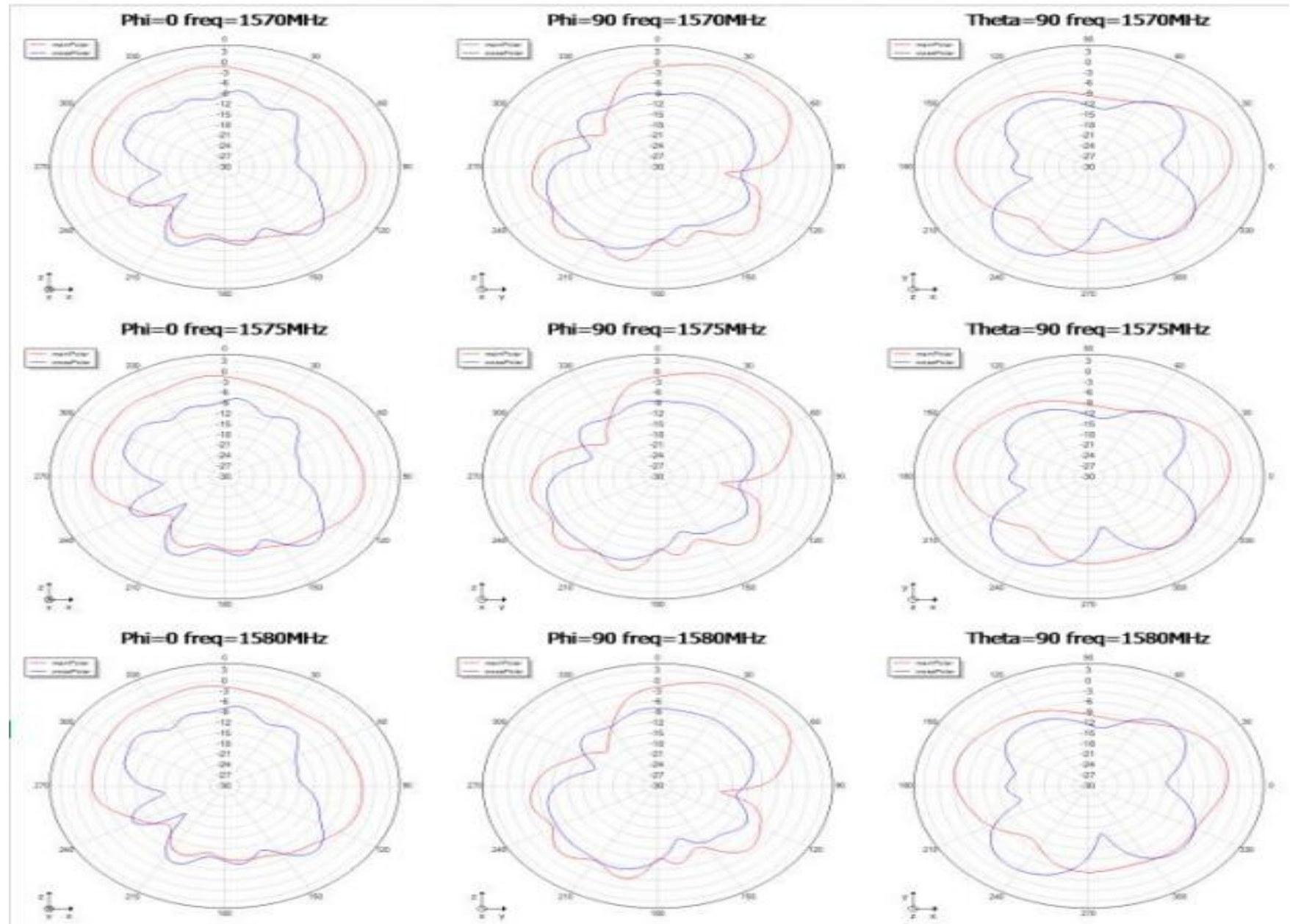
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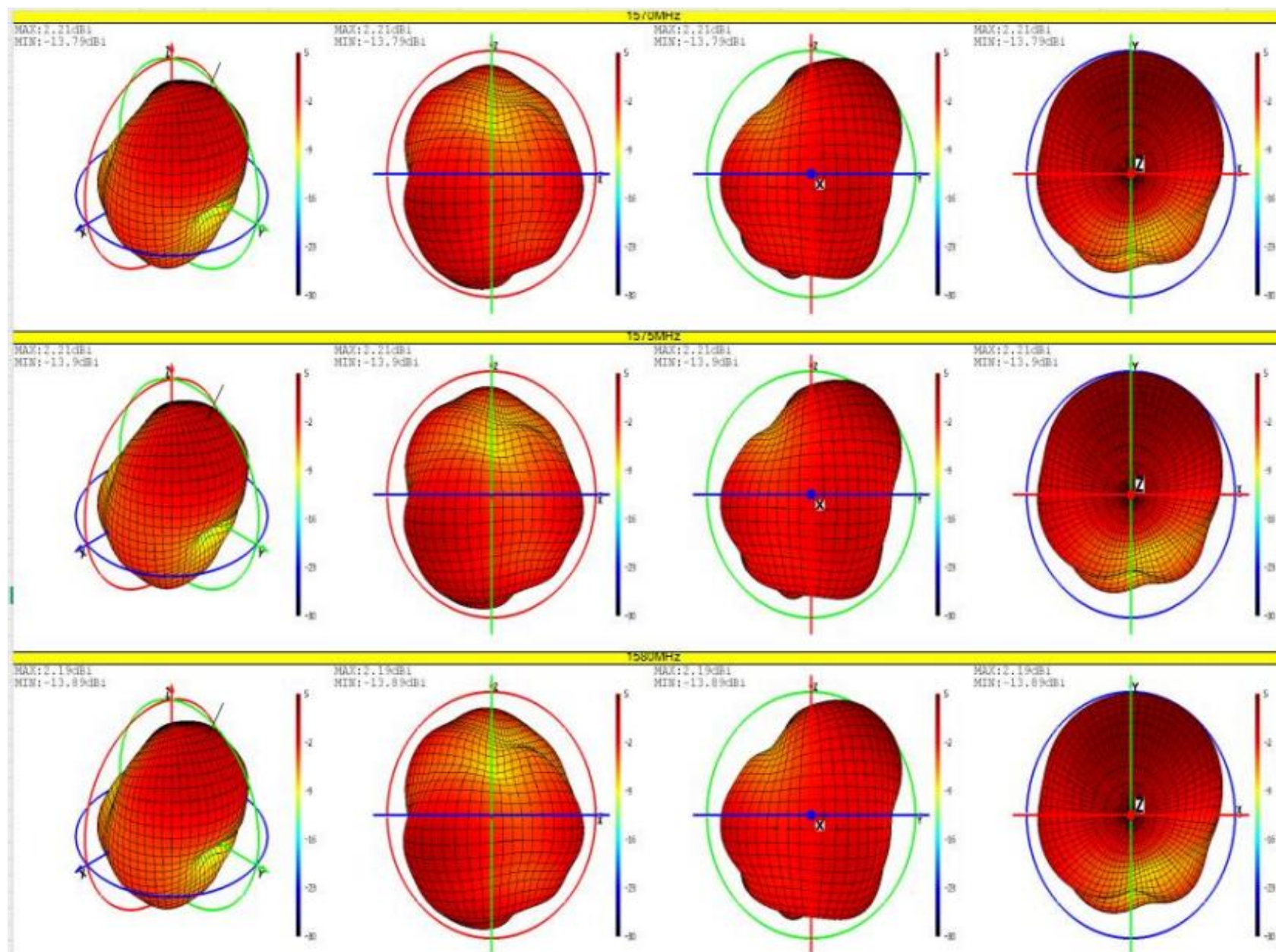


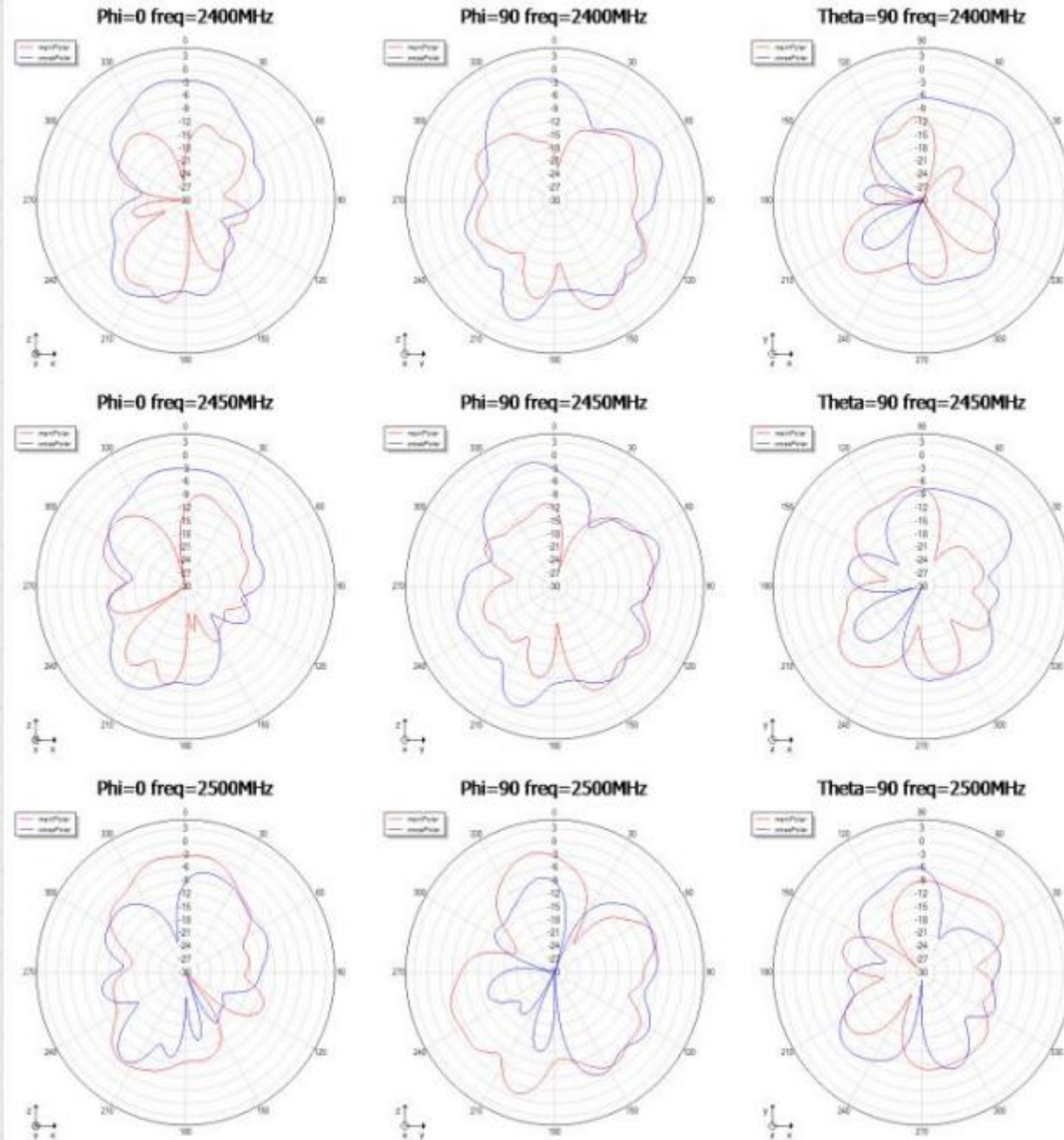
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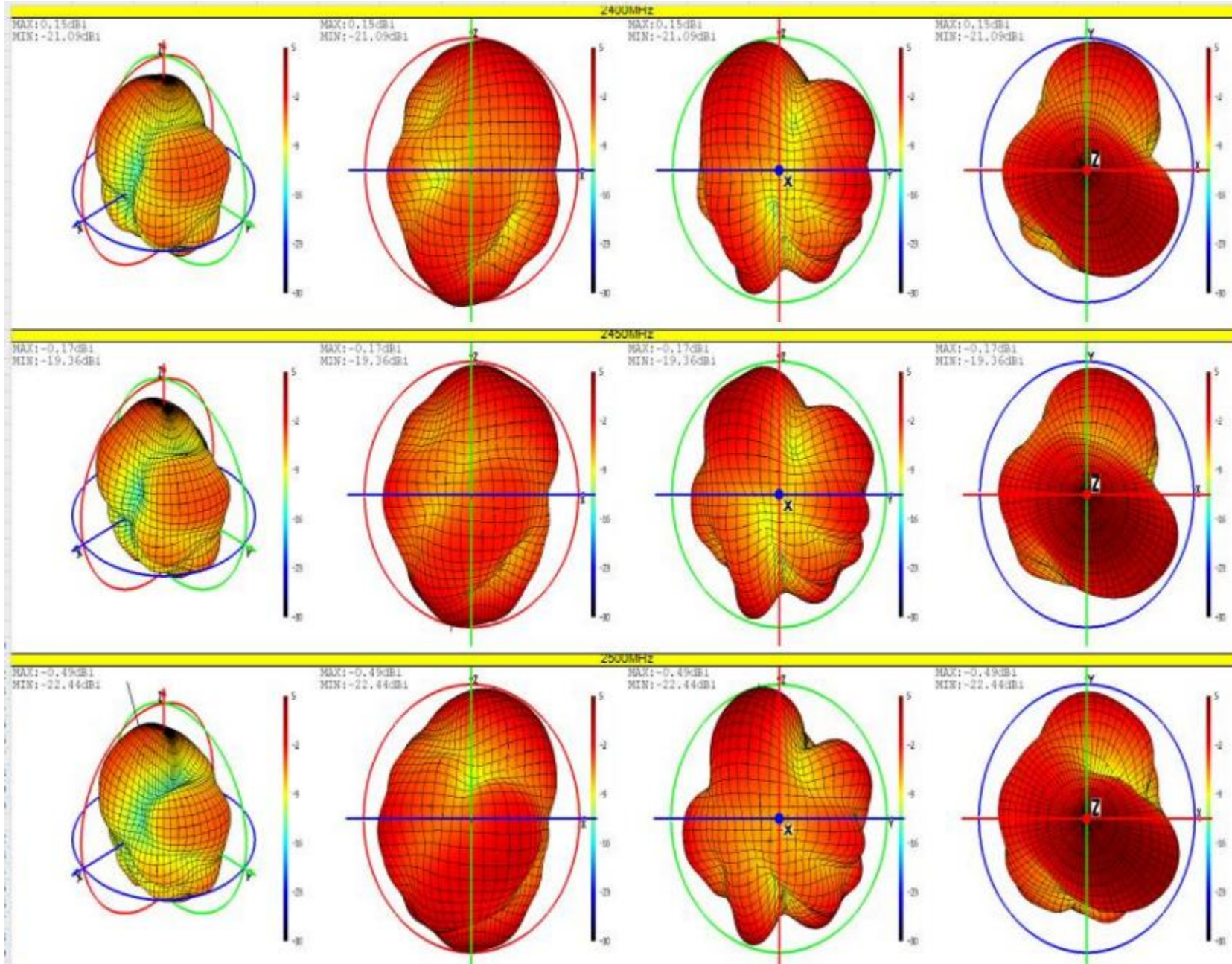


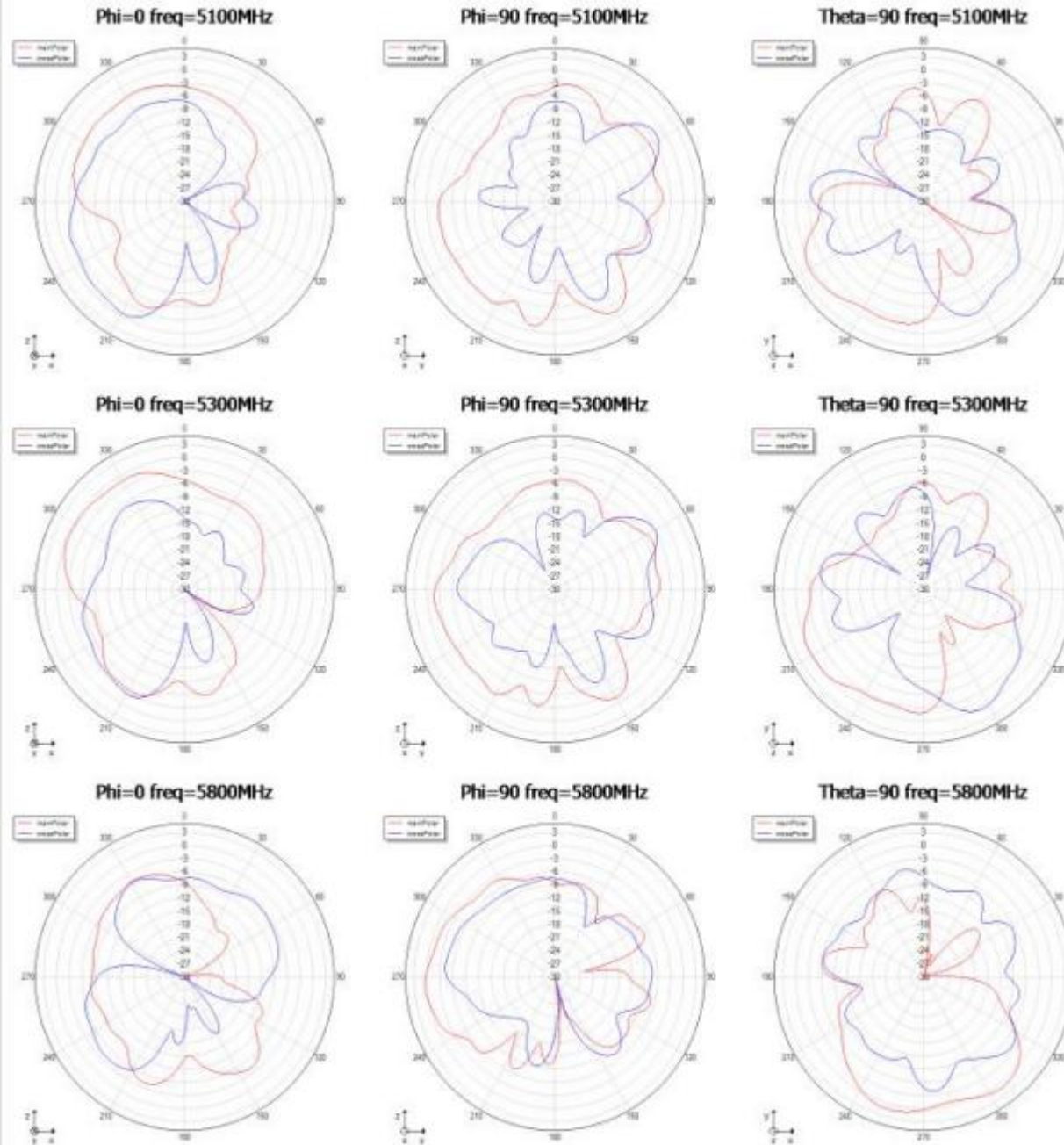




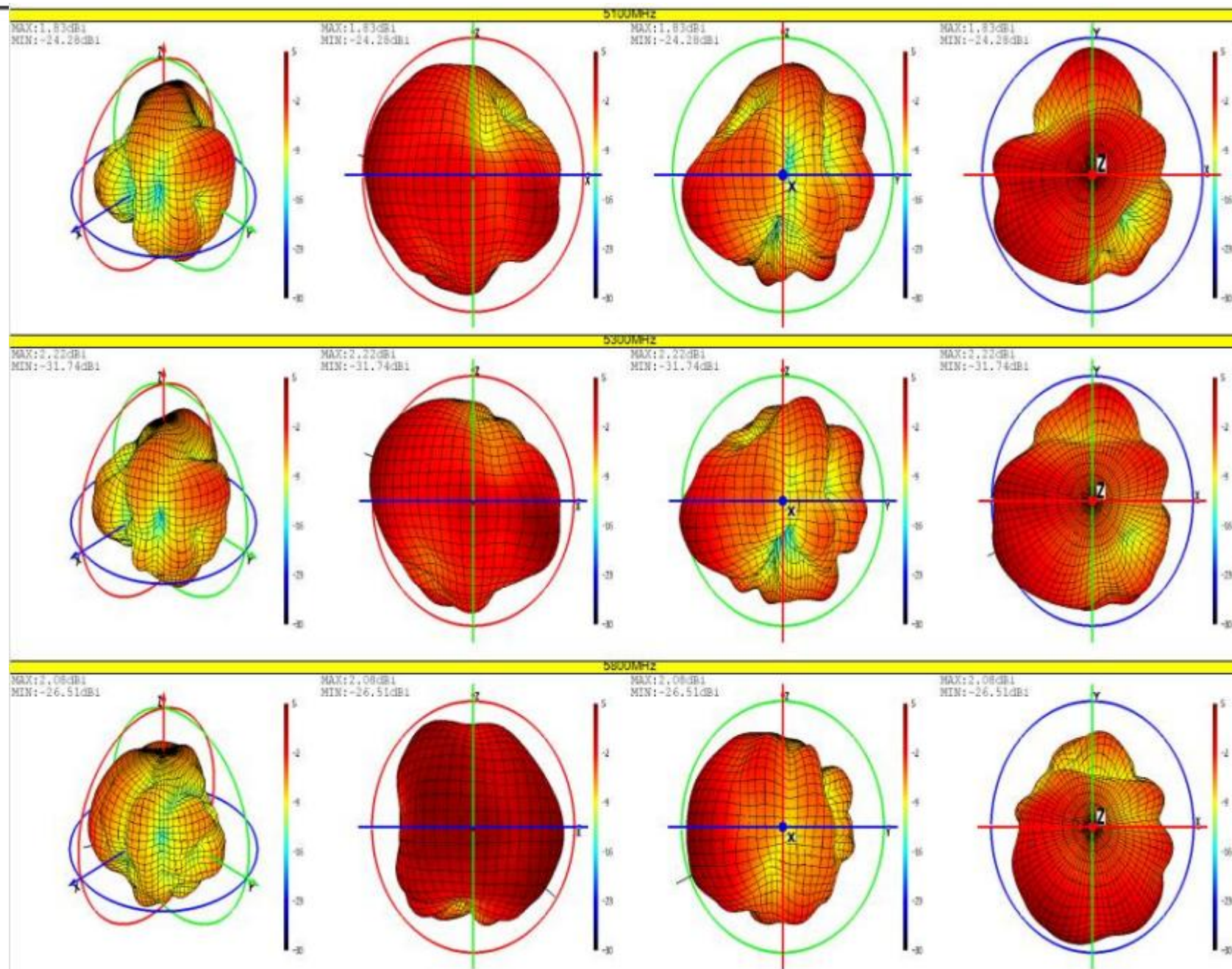


2.4GWIFI Apple Diagram and Direction Chart





5G WIFI Apple Diagram and Direction Chart



Antenna picture



Antenna picture



Antenna picture



Antenna picture

