



深圳市德仕勤科技有限公司

Antenna Test Report

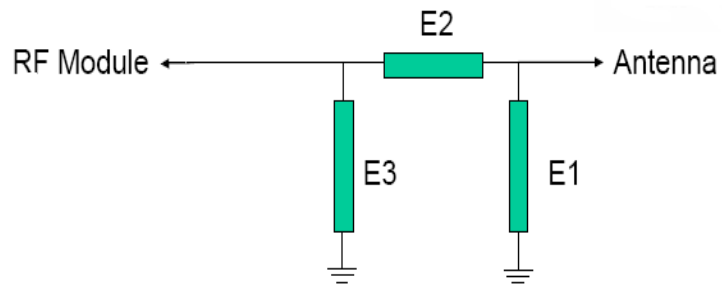
Customer Name	MEFERI
Entry name	ME74-WiFi only
Debugging frequency band	WIFI 、 BT
Sub antenna	
VERSION	V4.0
Manufacturer	Shenzhen DESHIQIN Technology Co., Ltd.

Shenzhen Dosking Technology Co., Ltd

1.The Equipment of Active Test

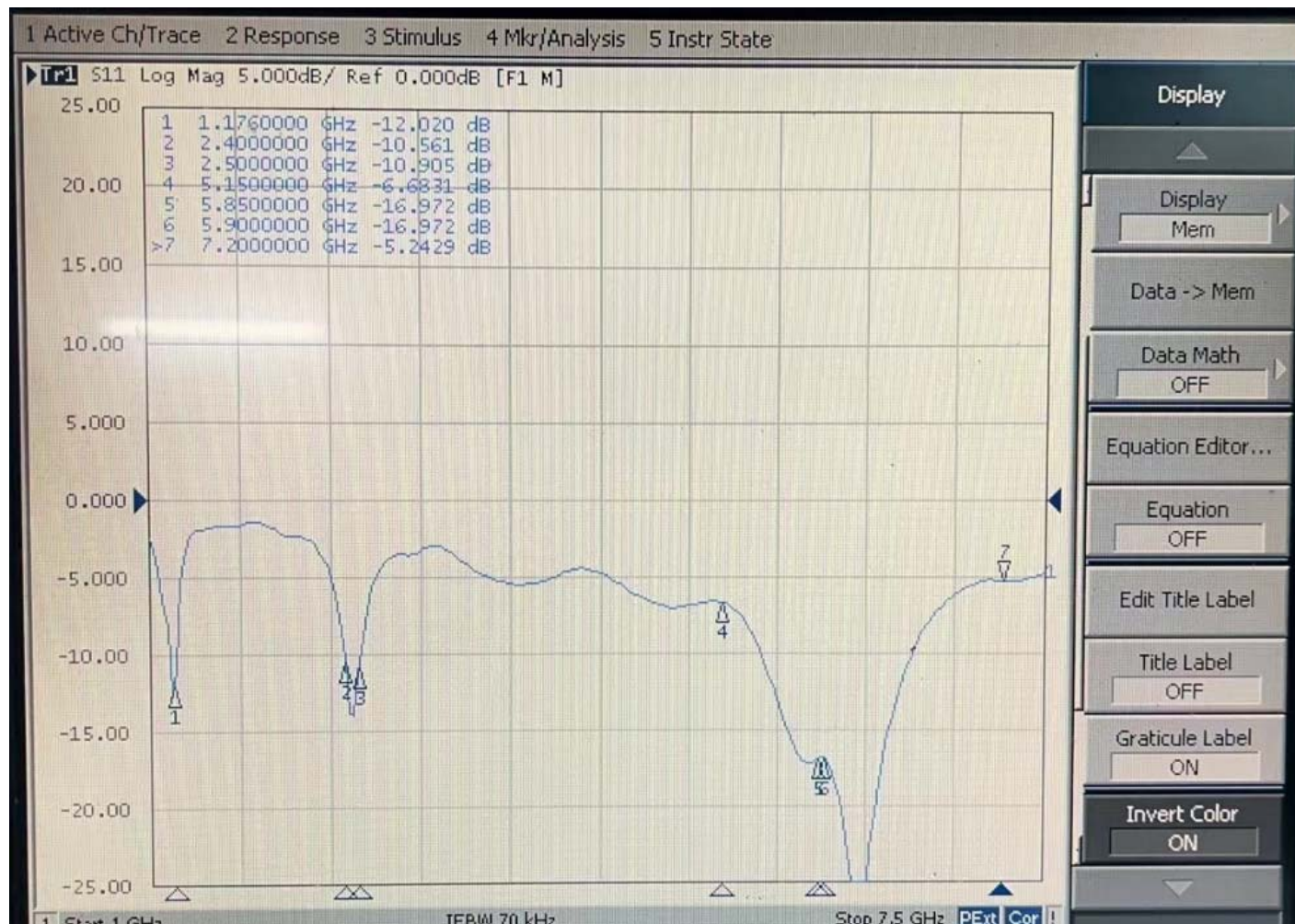
1. ETS Chamber 7×4×3(m)/3*3*3 (m) (3D Laboratory);
2. Vector network analyzer(Passive tester);
3. Network analyzer-5071E/B/Comprehensive measuring instrument-8960/LTE-RS-CMW500/MT8820C support2G、 3G、 4G/BT、 WIFI、 NB ;

2.Matching Circuit Main (Matching no changed)

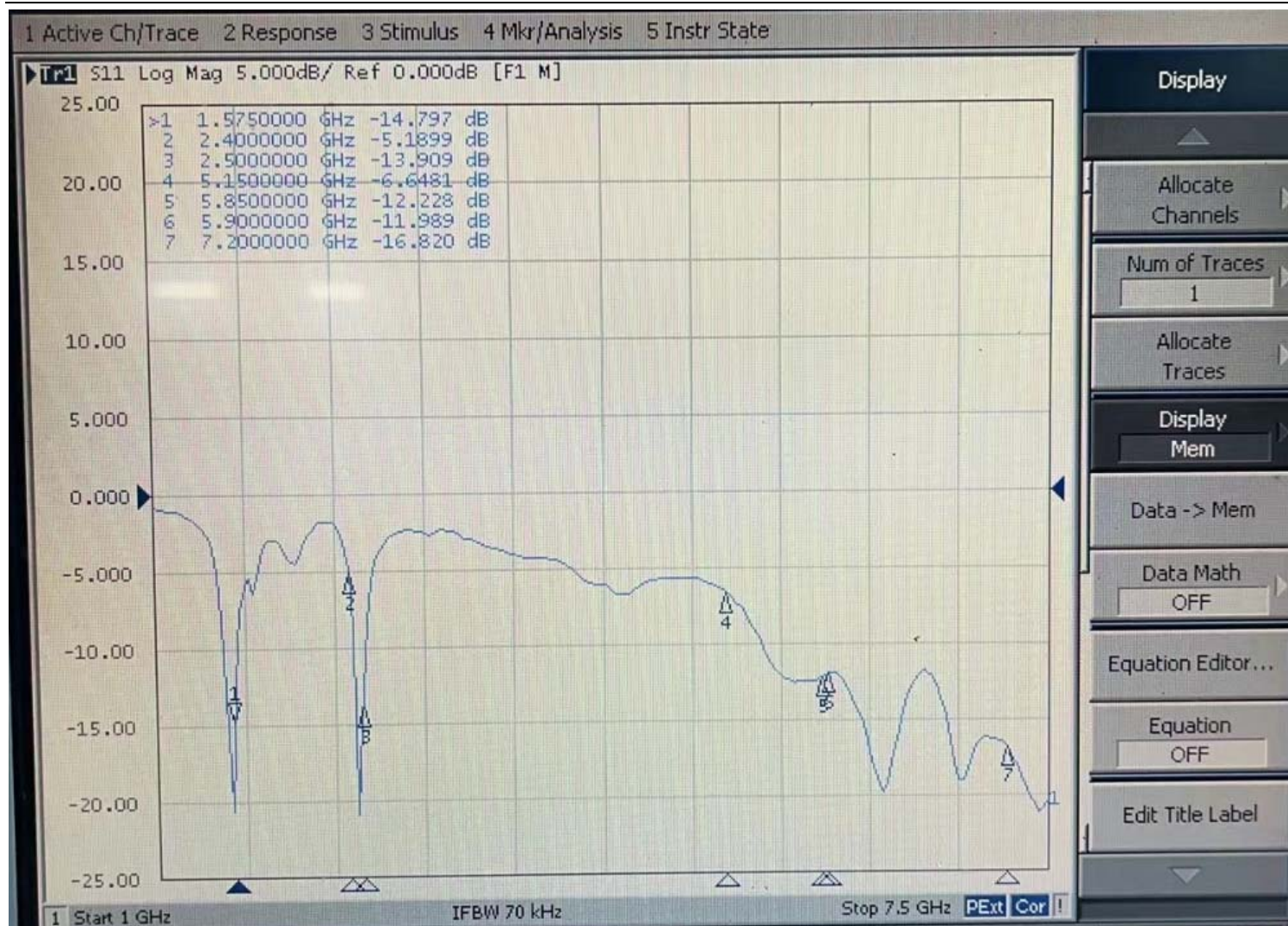


Element	Matching Value
E1	
E2	
E3	

3 : Antenna SWR Test



ANT 2



ANT3

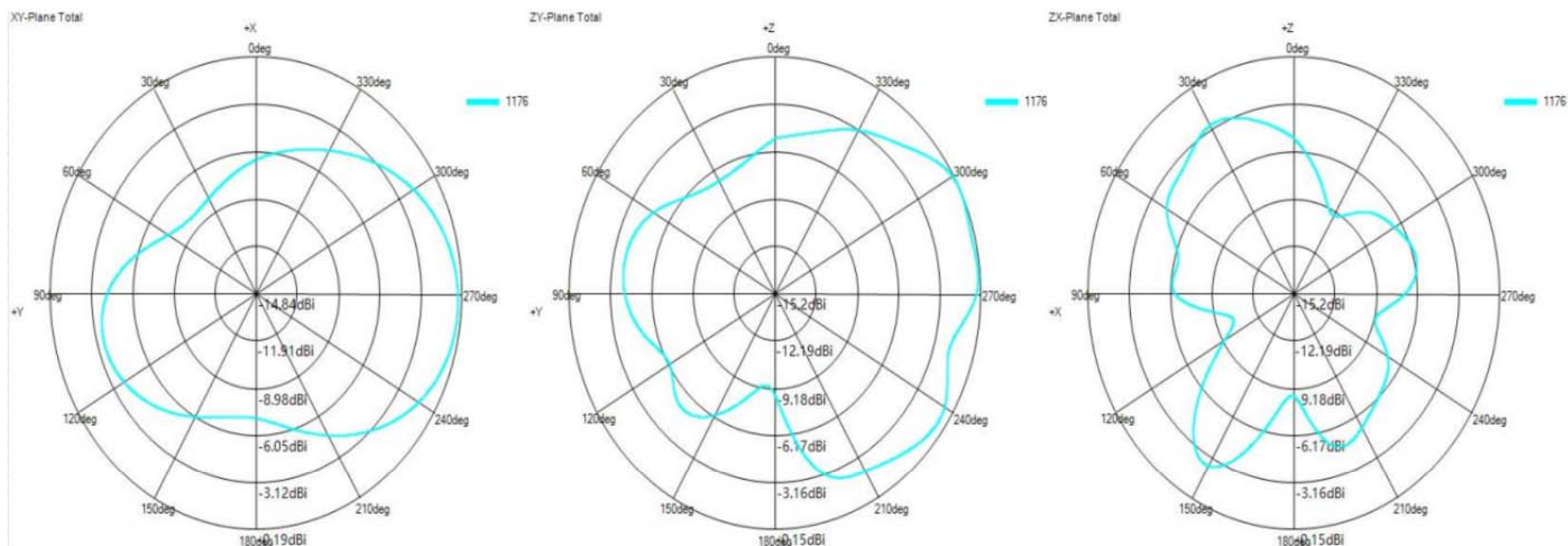


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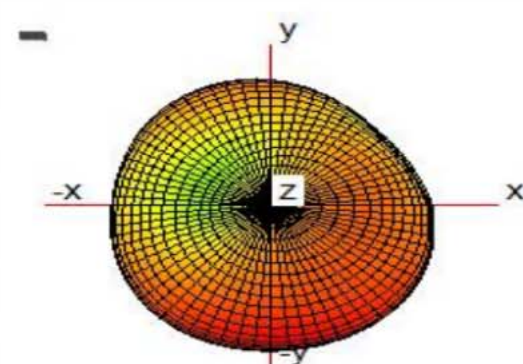
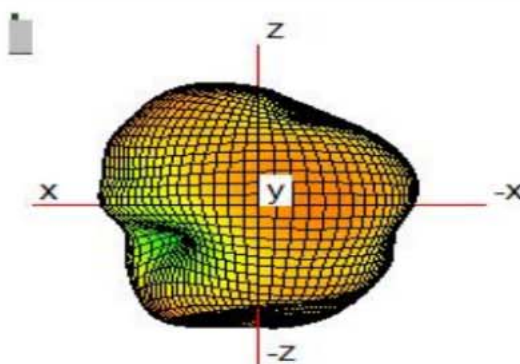
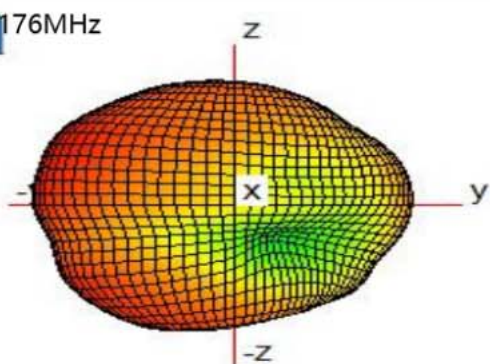
4 : Passive efficiency parameters

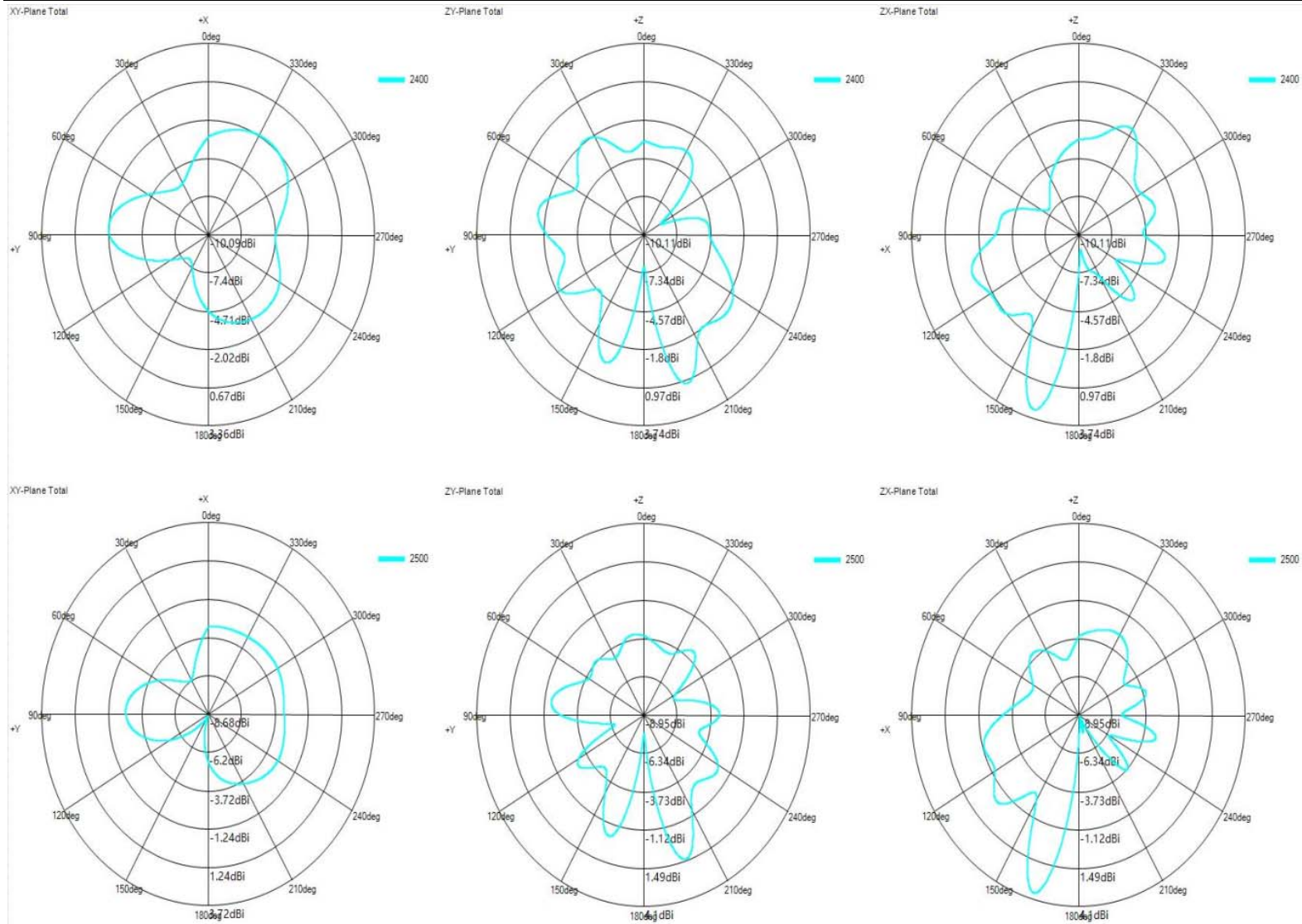
ANT 2

Passive Test For 2400-2500				Passive Test For 5150-5850				Passive Test For 1166-1186			
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dB)	(dBi)	(%)	(MHz)	(dB)	(dBi)	(%)	(MHz)	(dB)	(dBi)	(%)
2400	-3.15	3.36	48.43	5150	-4.24	2.65	37.71	1166	-3.97	0.17	40.11
2420	-2.84	3.76	51.98	5230	-4.09	2.68	38.97	1171	-4.17	0.02	38.24
2440	-3.09	3.72	49.14	5310	-4.11	2.58	38.81	1176	-4.35	-0.23	36.71
2460	-3.04	3.84	49.61	5390	-3.61	2.84	43.58	1181	-4.54	-0.54	35.15
2480	-3.16	3.71	48.31	5470	-3.87	3.31	41.01	1186	-4.77	-0.8	33.32
2500	-3.12	3.71	48.74	5550	-3.53	3.47	44.39				
				5630	-3.35	3.27	46.28				
				5710	-3.81	2.14	41.6				
				5790	-4.06	2.44	39.27				
				5850	-4	2.44	39.84				
				5900	-3.79	2.74	41.76				
				6050	-3.56	3.16	44.02				
				6200	-3.18	3.3	48.06				
				6350	-3.41	2.69	45.62				
				6500	-4.02	1.85	39.63				
				6650	-4.26	1.32	37.46				
				6800	-5.04	0.93	31.3				
				6950	-6.43	0.62	22.74				
				7200	-9.36	-2.82	11.59				

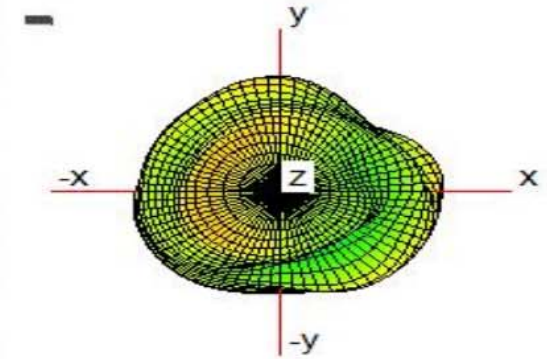
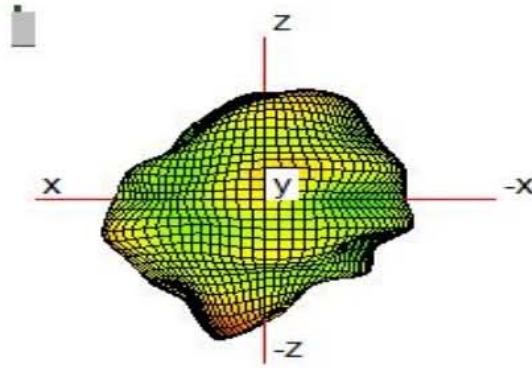
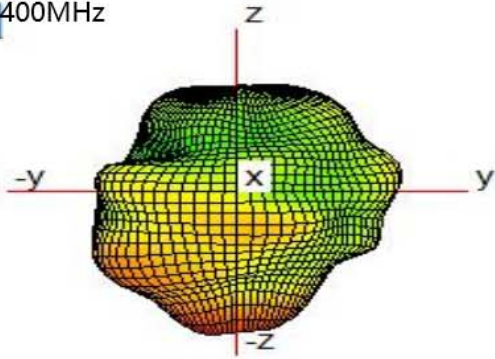


1176MHz

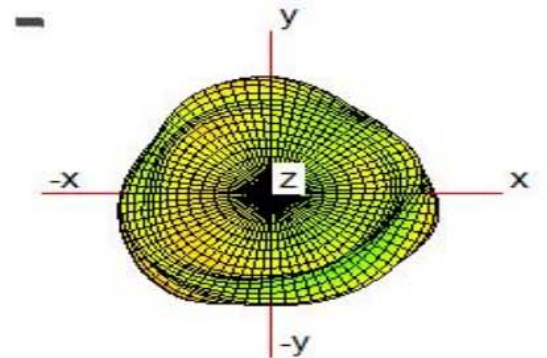
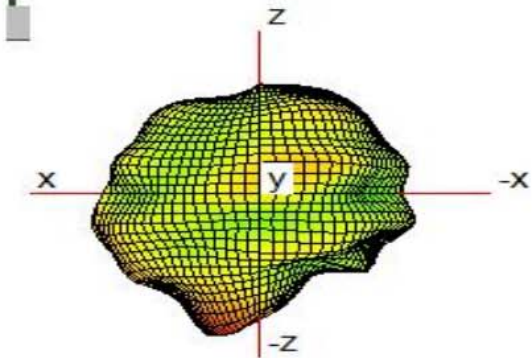
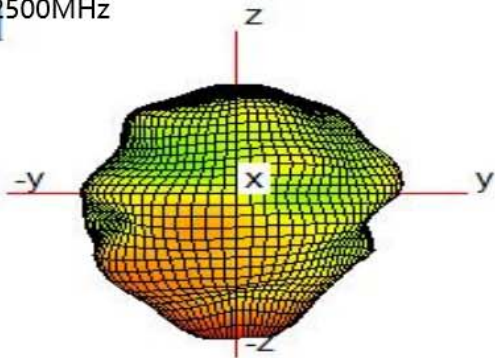


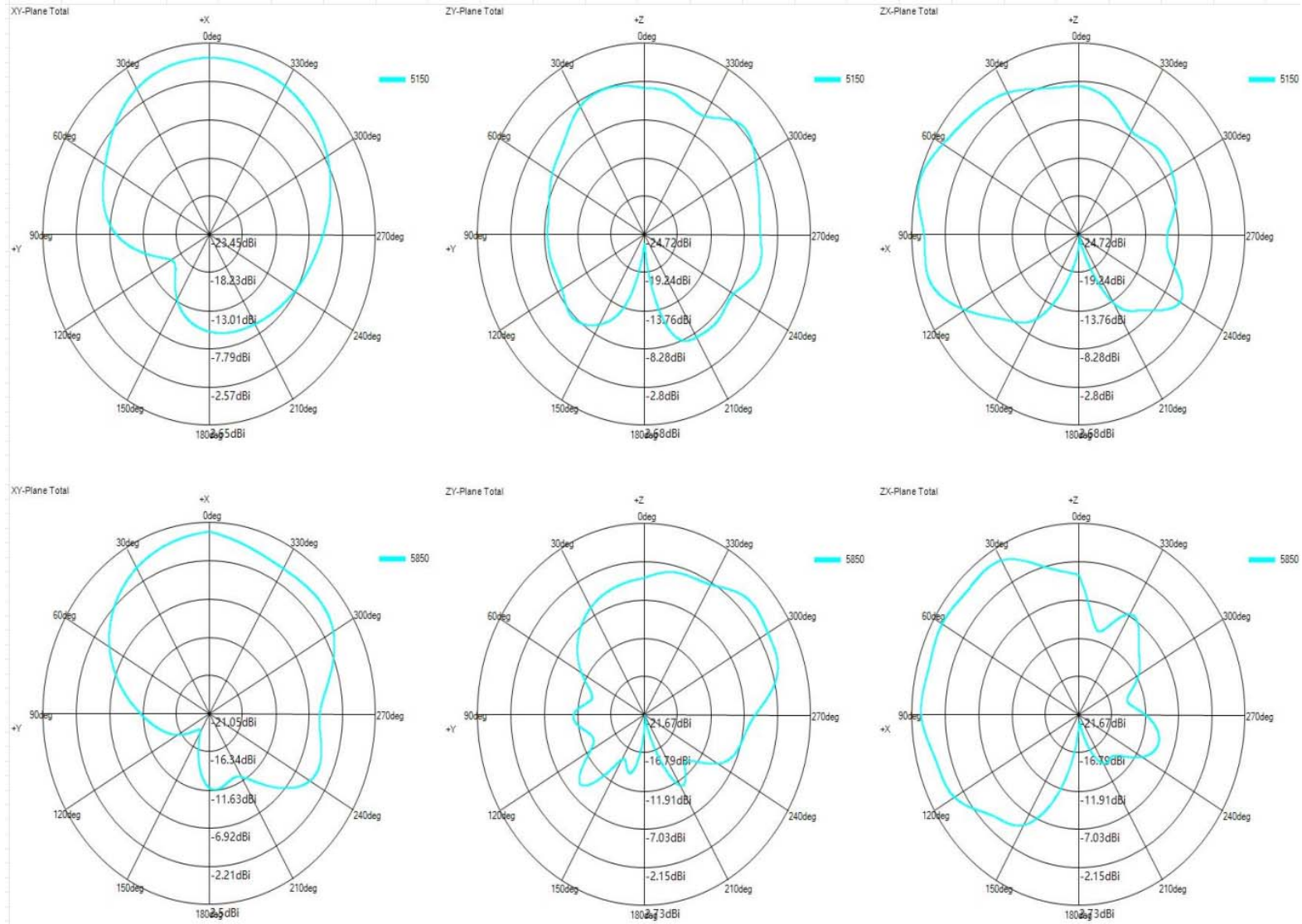


2400MHz

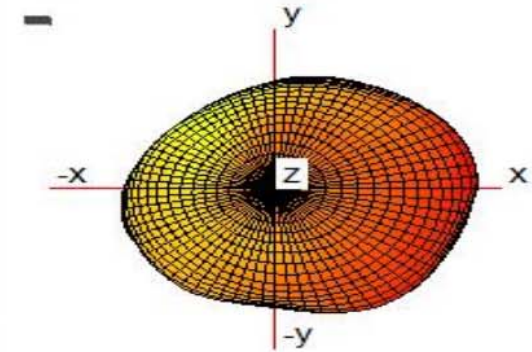
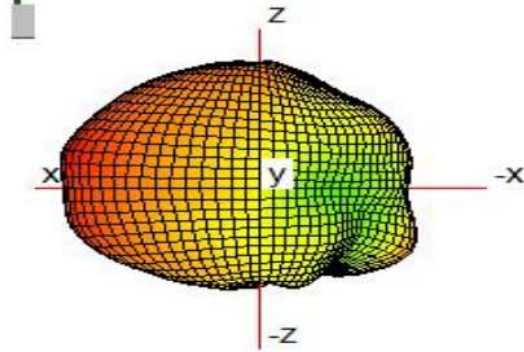
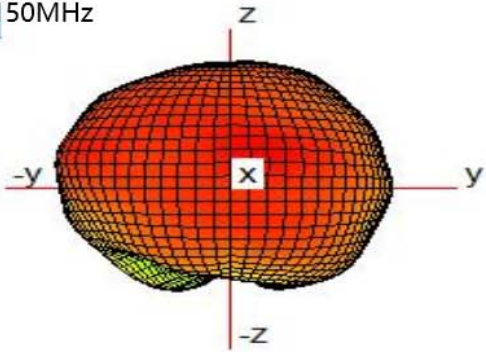


2500MHz

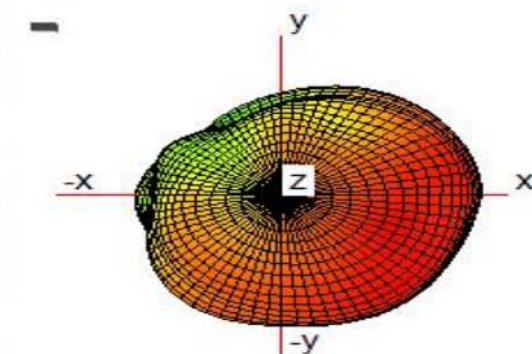
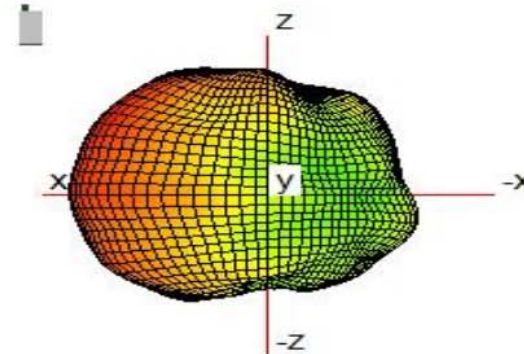
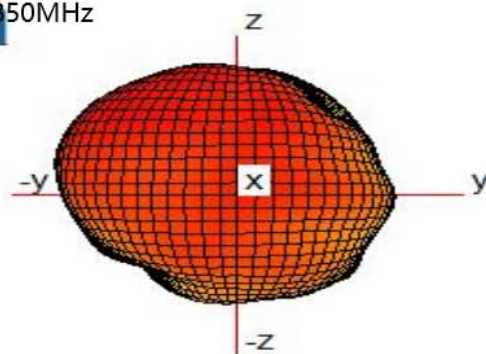


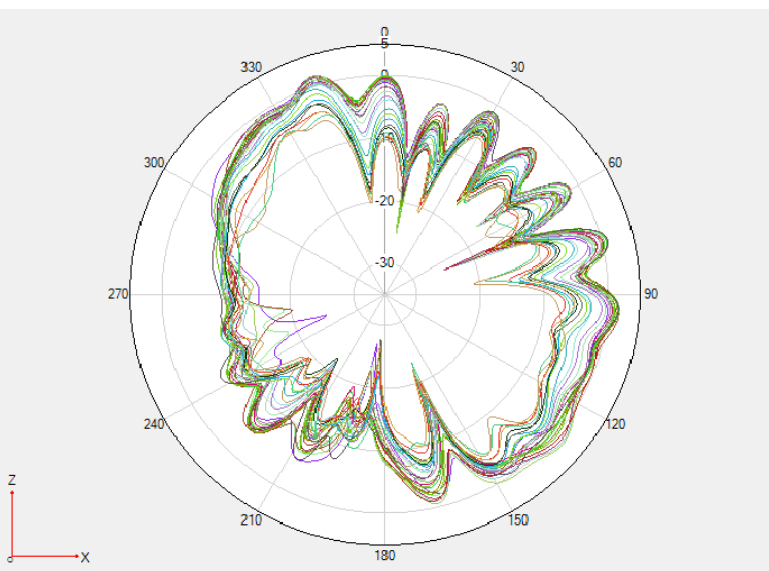
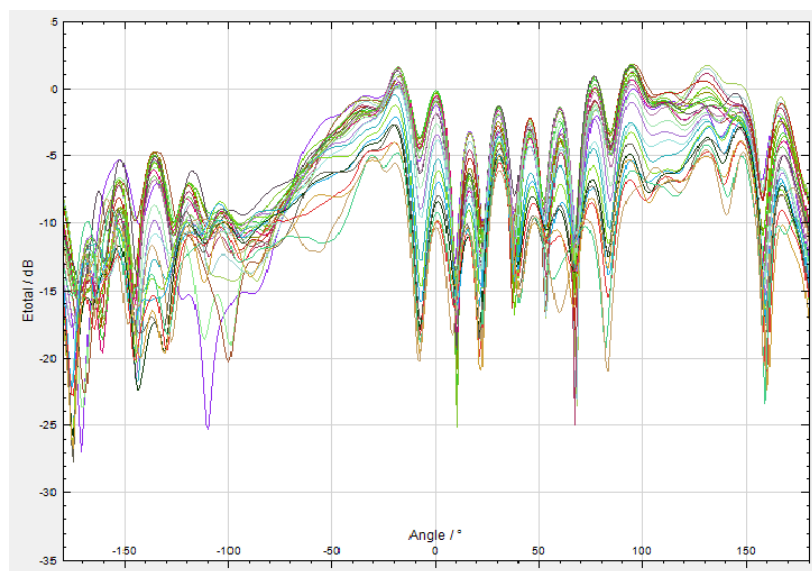
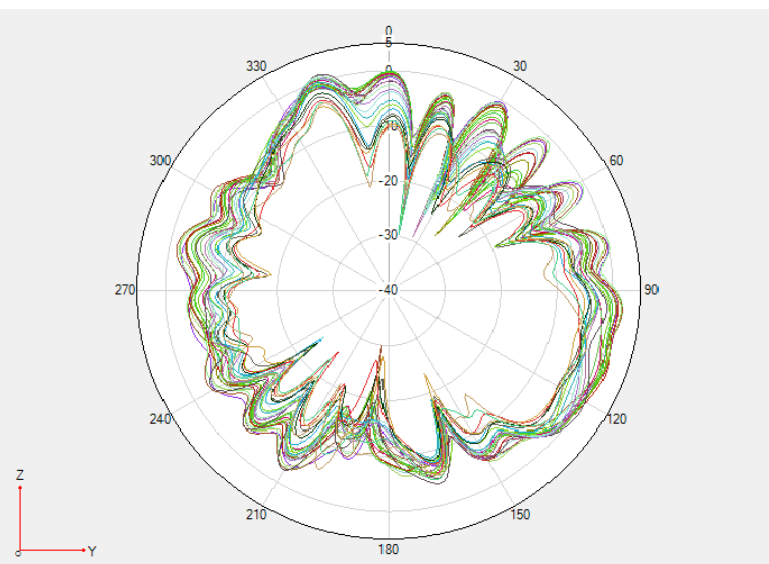
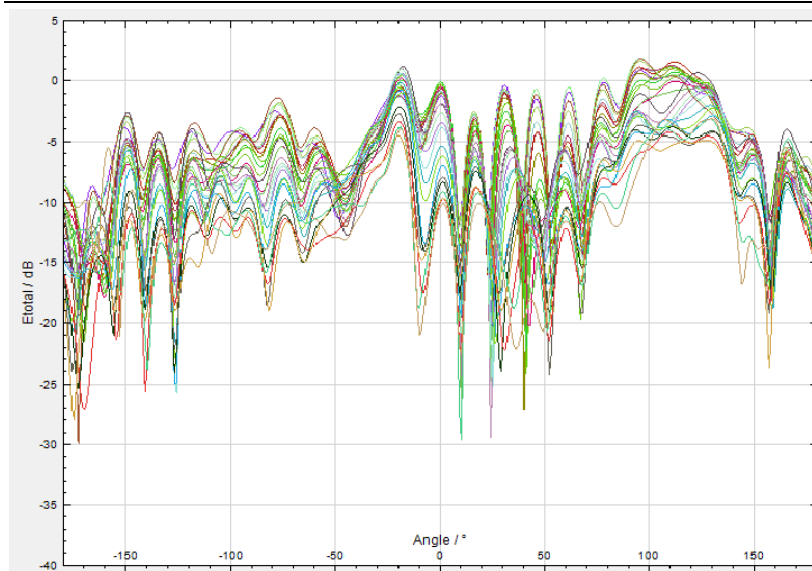


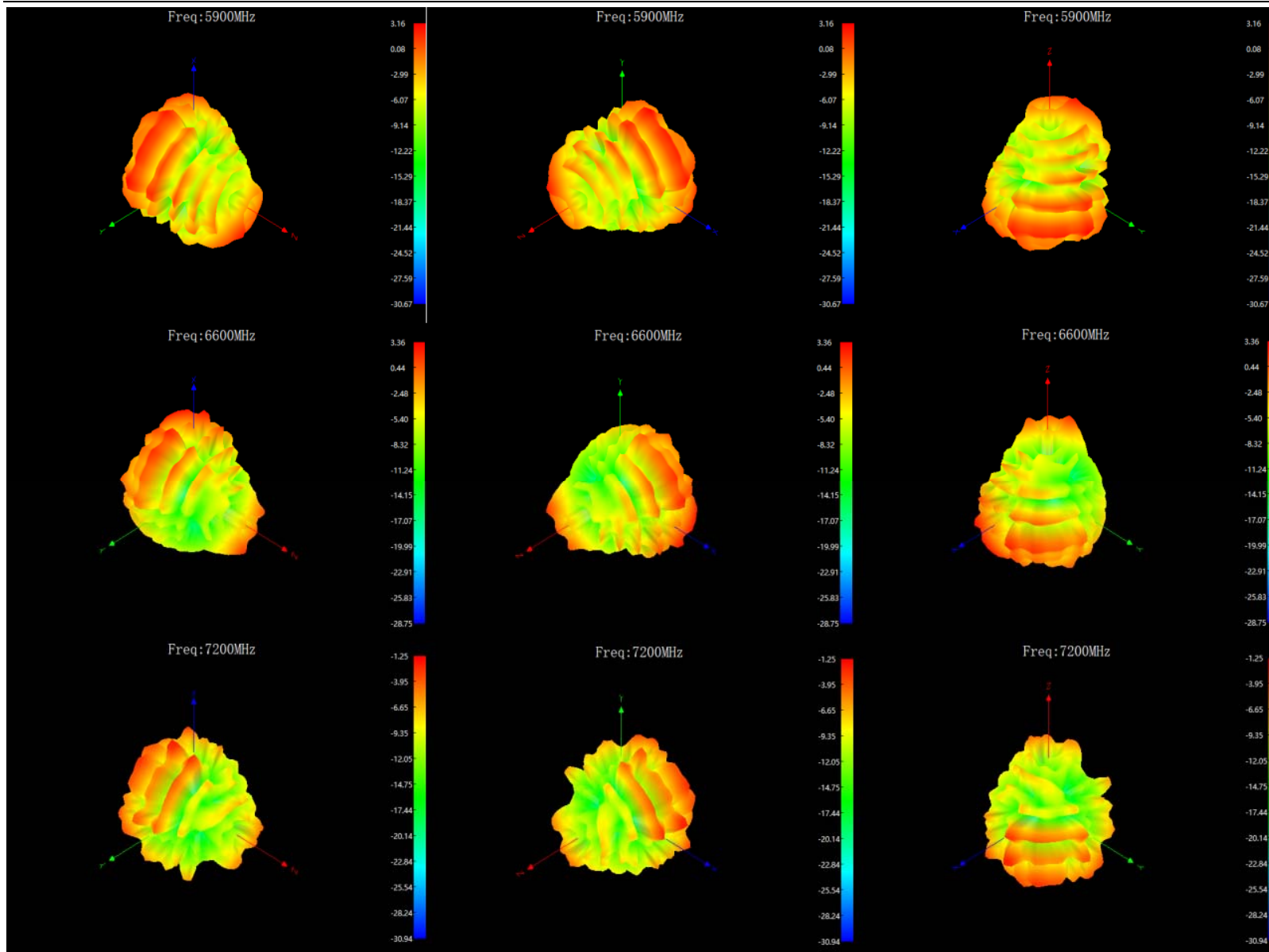
5150MHz



5850MHz







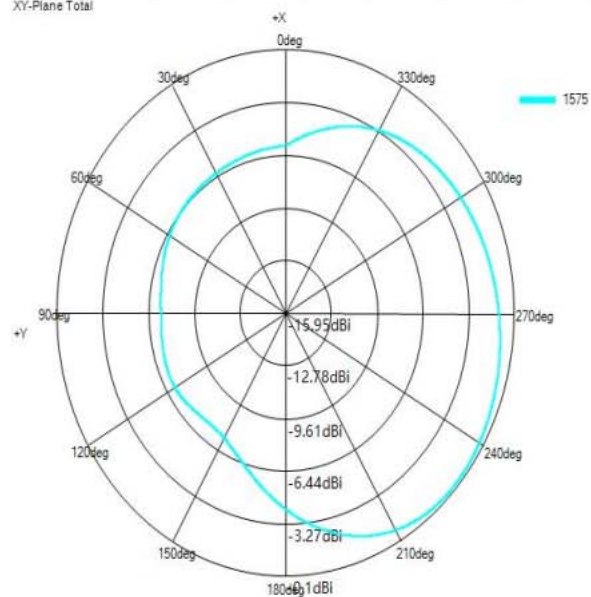


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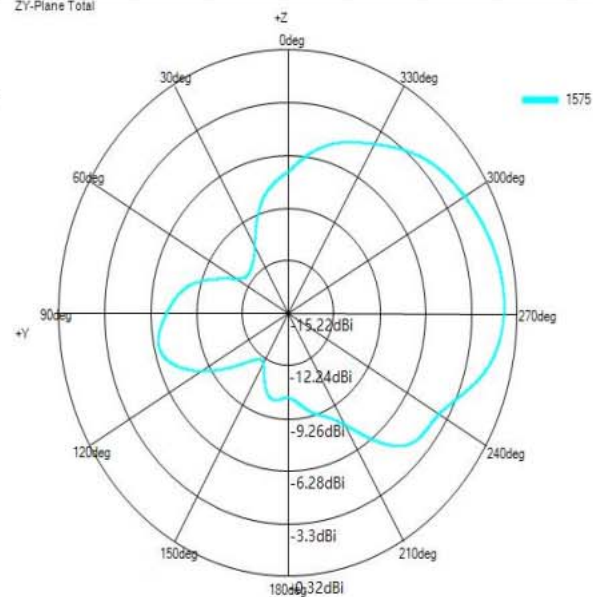
ANT 3

Passive Test For 2400-2500				Passive Test For 5150-5850				Passive Test For 1565-1580			
Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi	Freq	Effi	Gain	Effi
(MHz)	(dB)	(dBi)	(%)	(MHz)	(dB)	(dBi)	(%)	(MHz)	(dB)	(dBi)	(%)
2400	-5.27	-1.11	28.29	5150	-5.61	2.23	27.48	1565	-5.22	-0.56	30.05
2420	-5.05	-0.86	31.27	5230	-5.83	2.04	26.12	1570	-5.1	-0.45	30.87
2440	-4.94	-0.85	32.05	5310	-6.01	1.51	25.06	1575	-5.07	-0.46	31.11
2460	-4.63	-0.75	34.45	5390	-5.47	2.41	28.39	1580	-5.15	-0.58	30.55
2480	-4.57	-0.92	34.94	5470	-5.73	1.62	26.76	1585	-5.22	-0.61	30.04
2500	-4.52	-1.03	35.3	5550	-5.52	1.78	28.05				
				5630	-5.2	1.92	30.19				
				5710	-4.98	1.98	31.75				
				5790	-5.14	1.51	30.65				
				5850	-5.24	1.59	29.9				
				5900	-3.04	3.38	49.65				
				6050	-2.63	3.35	54.6				
				6200	-2.37	3.48	57.92				
				6350	-2.49	3.81	56.32				
				6500	-3.13	2.48	48.63				
				6650	-2.7	3.8	53.76				
				6800	-2.6	3.9	54.92				
				6950	-2.73	4.01	53.37				
				7100	-2.89	3.77	52.16				
				7200	-3.18	3.61	48.03				

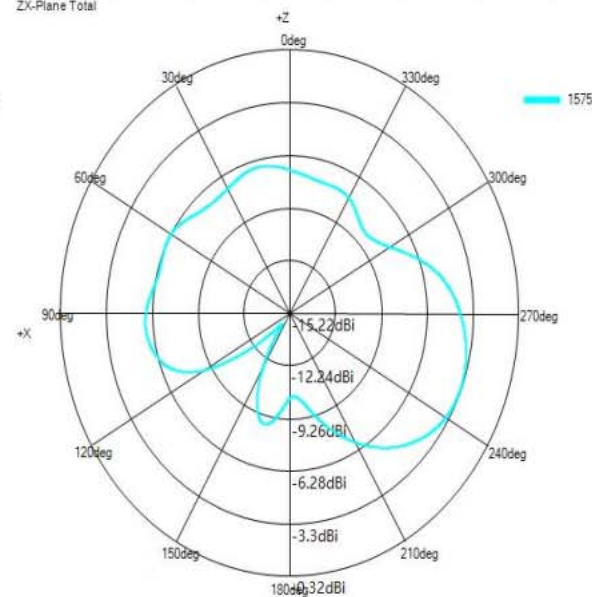
XY-Plane Total



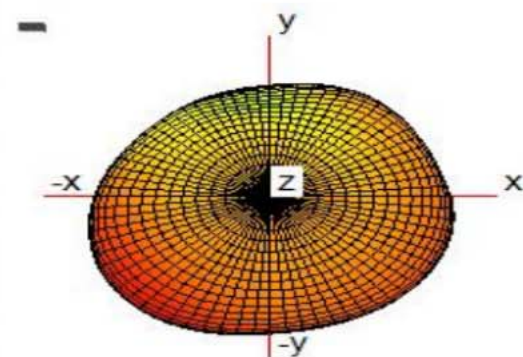
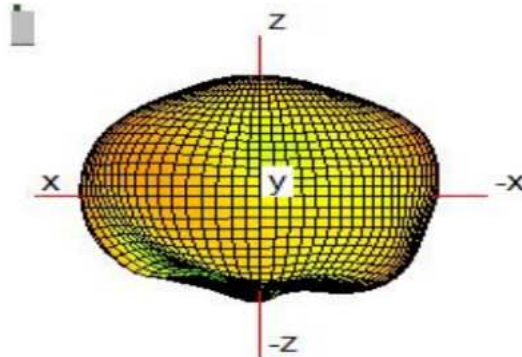
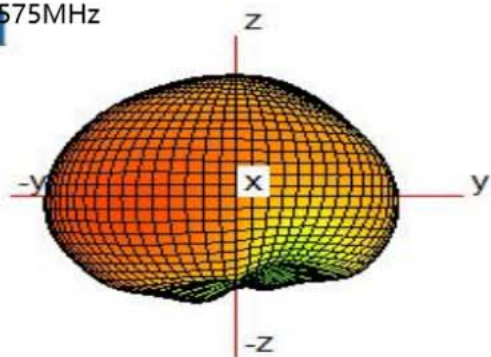
ZY-Plane Total

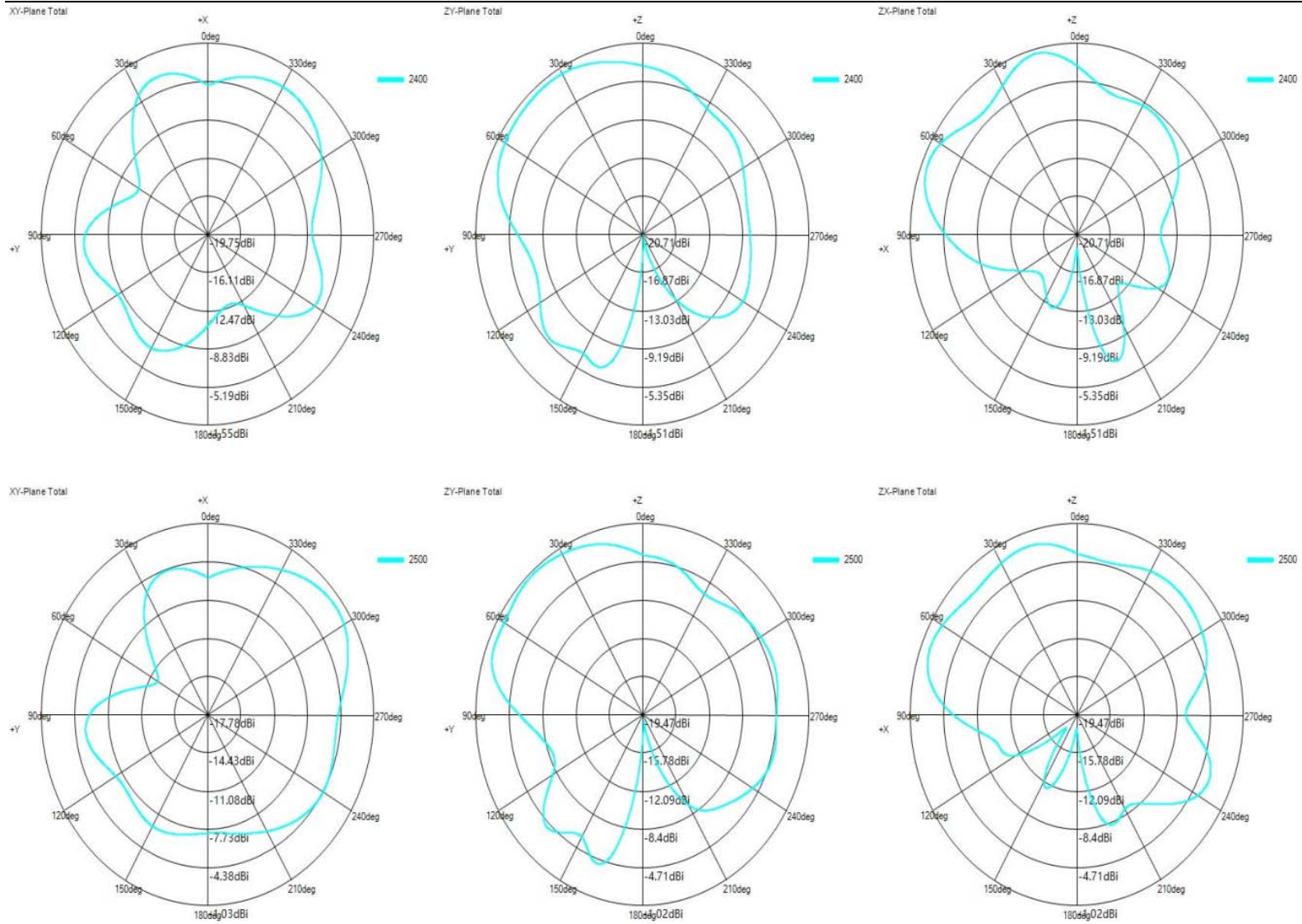


ZX-Plane Total

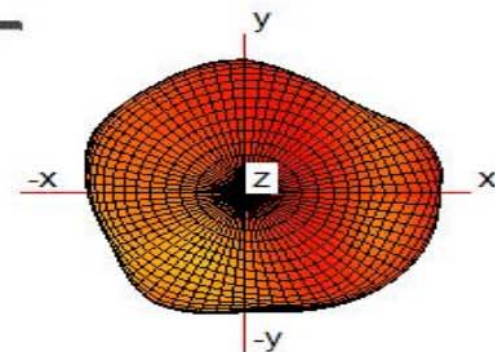
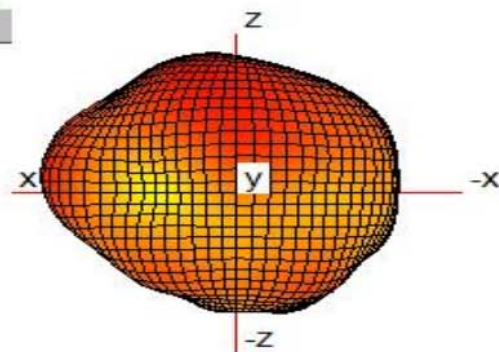
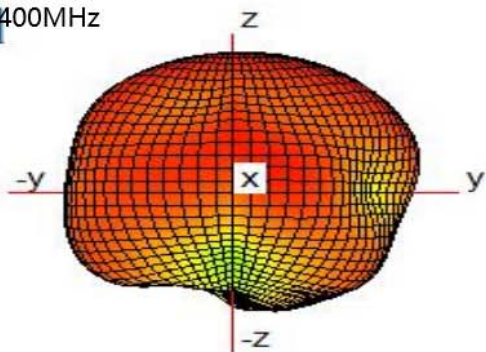


1575MHz

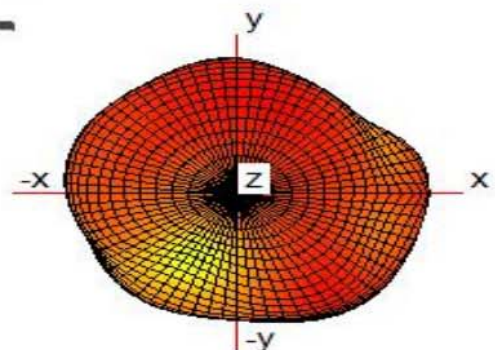
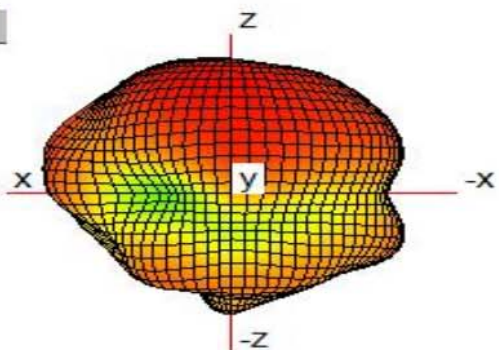
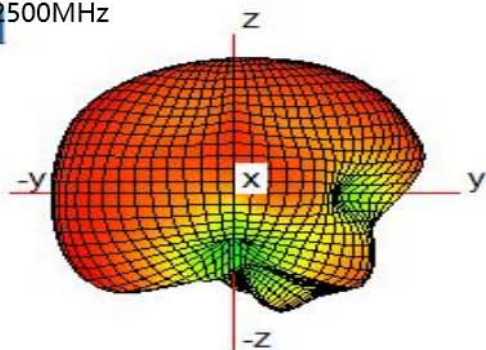


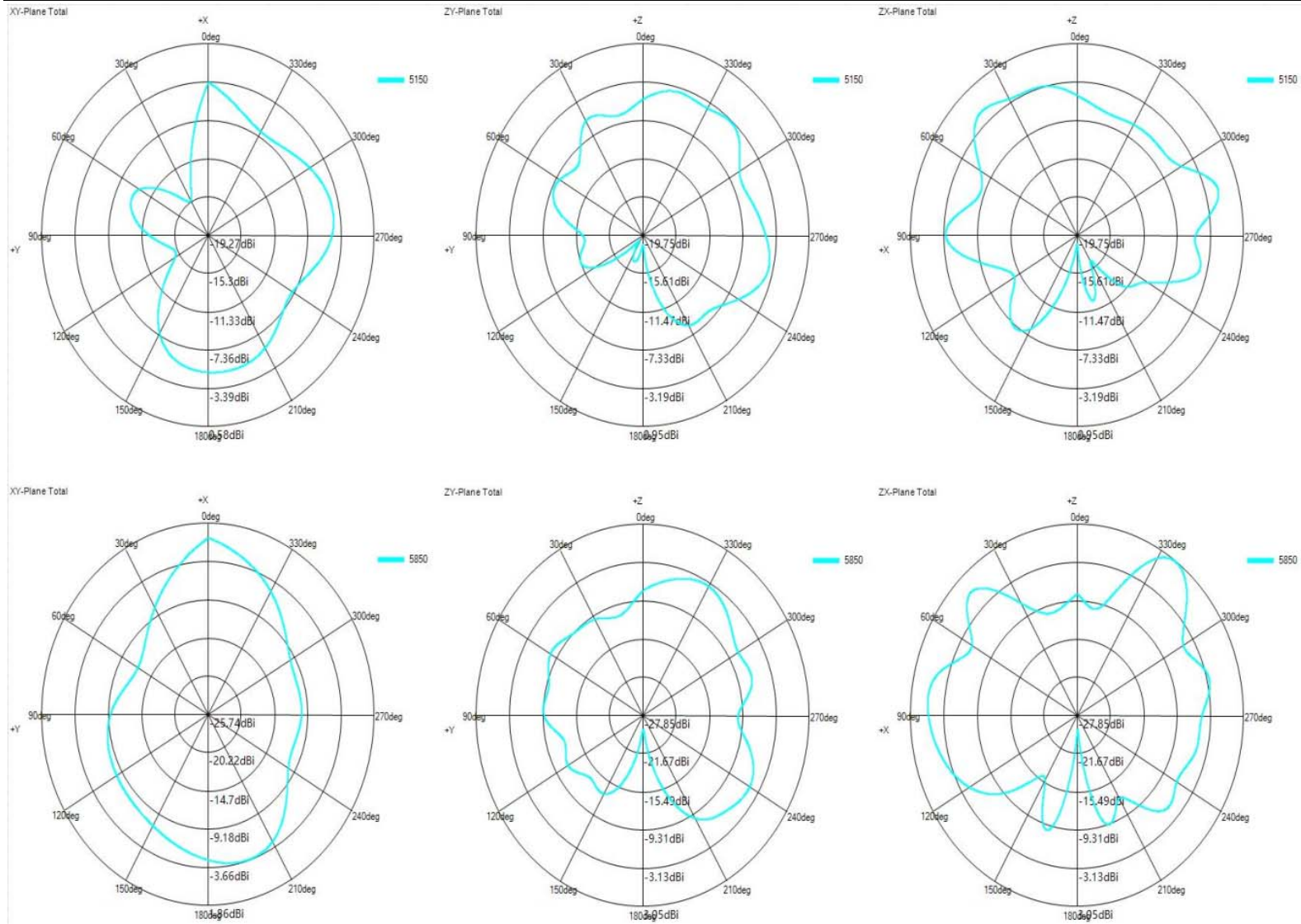


2400MHz

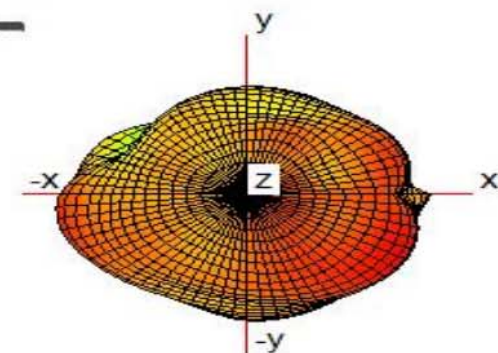
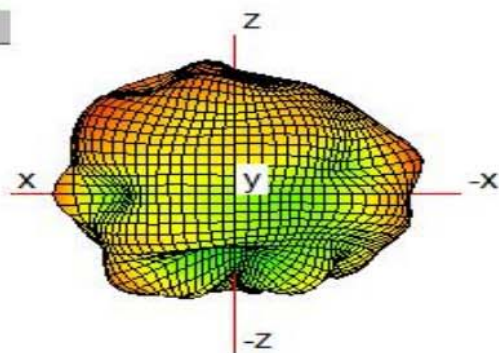
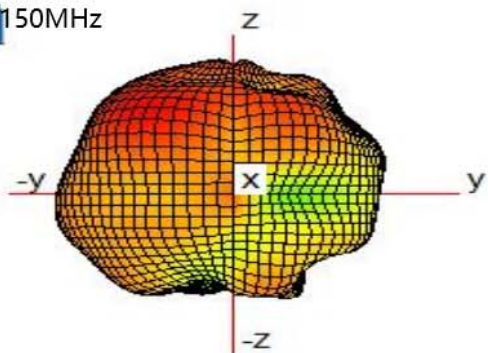


2500MHz

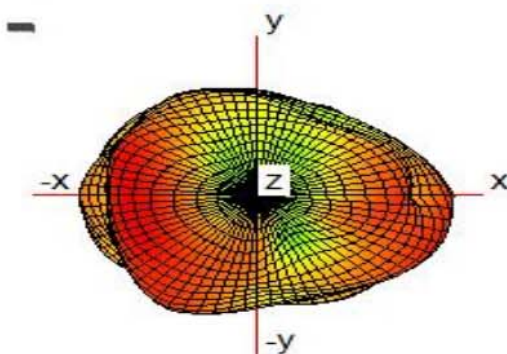
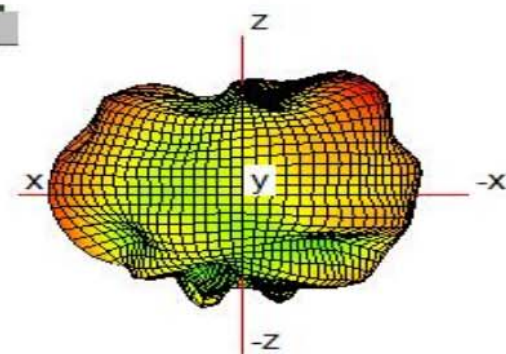
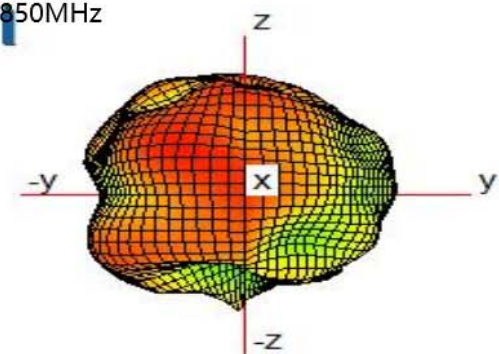


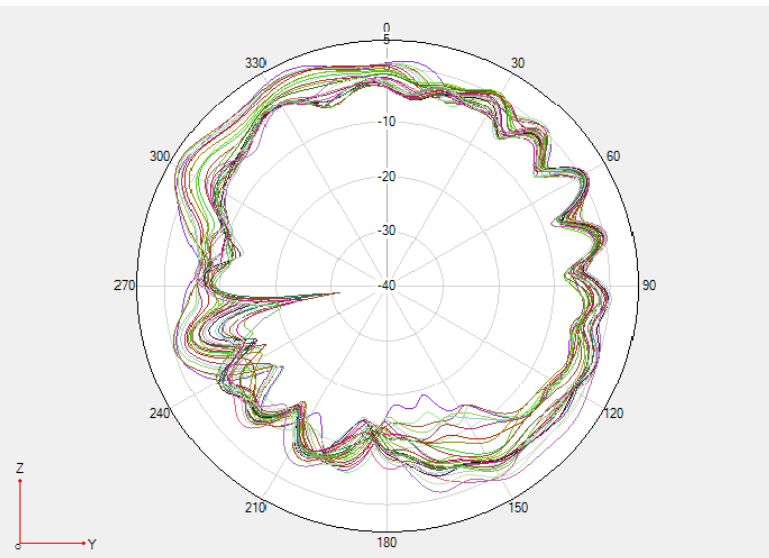
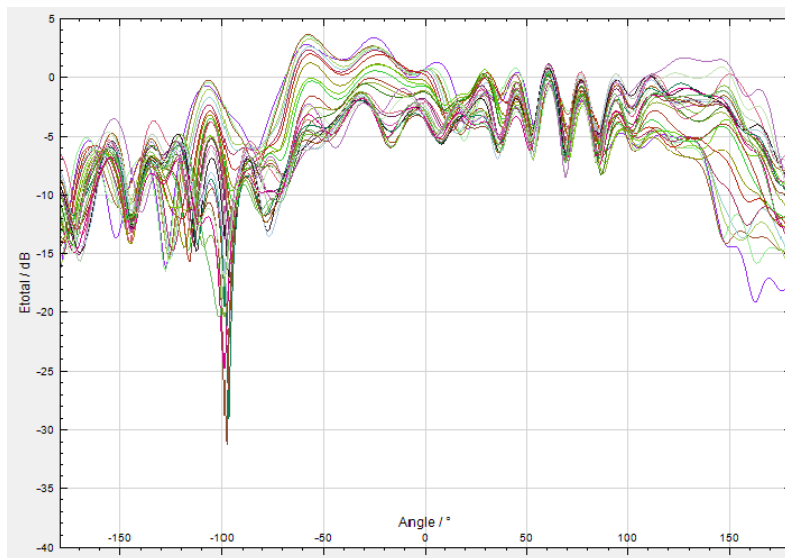
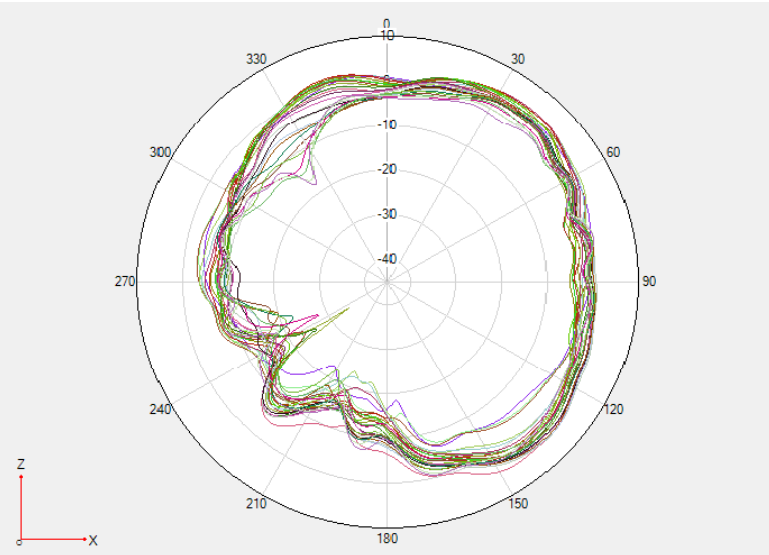
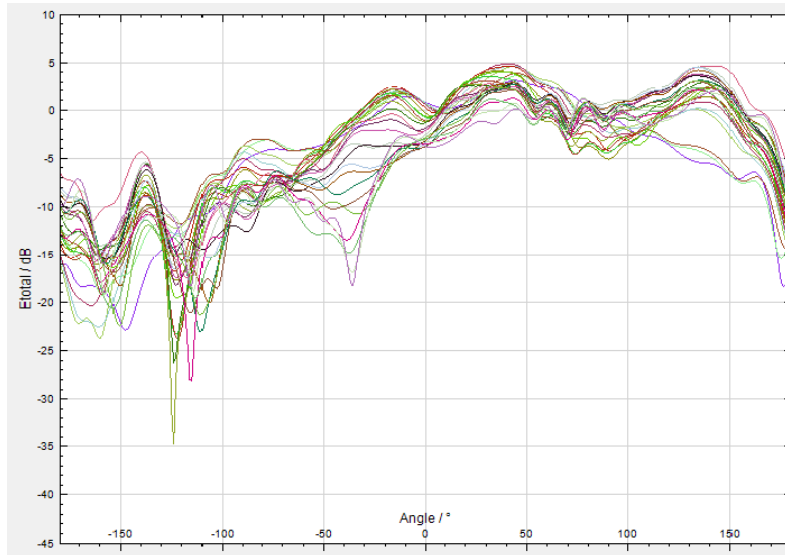


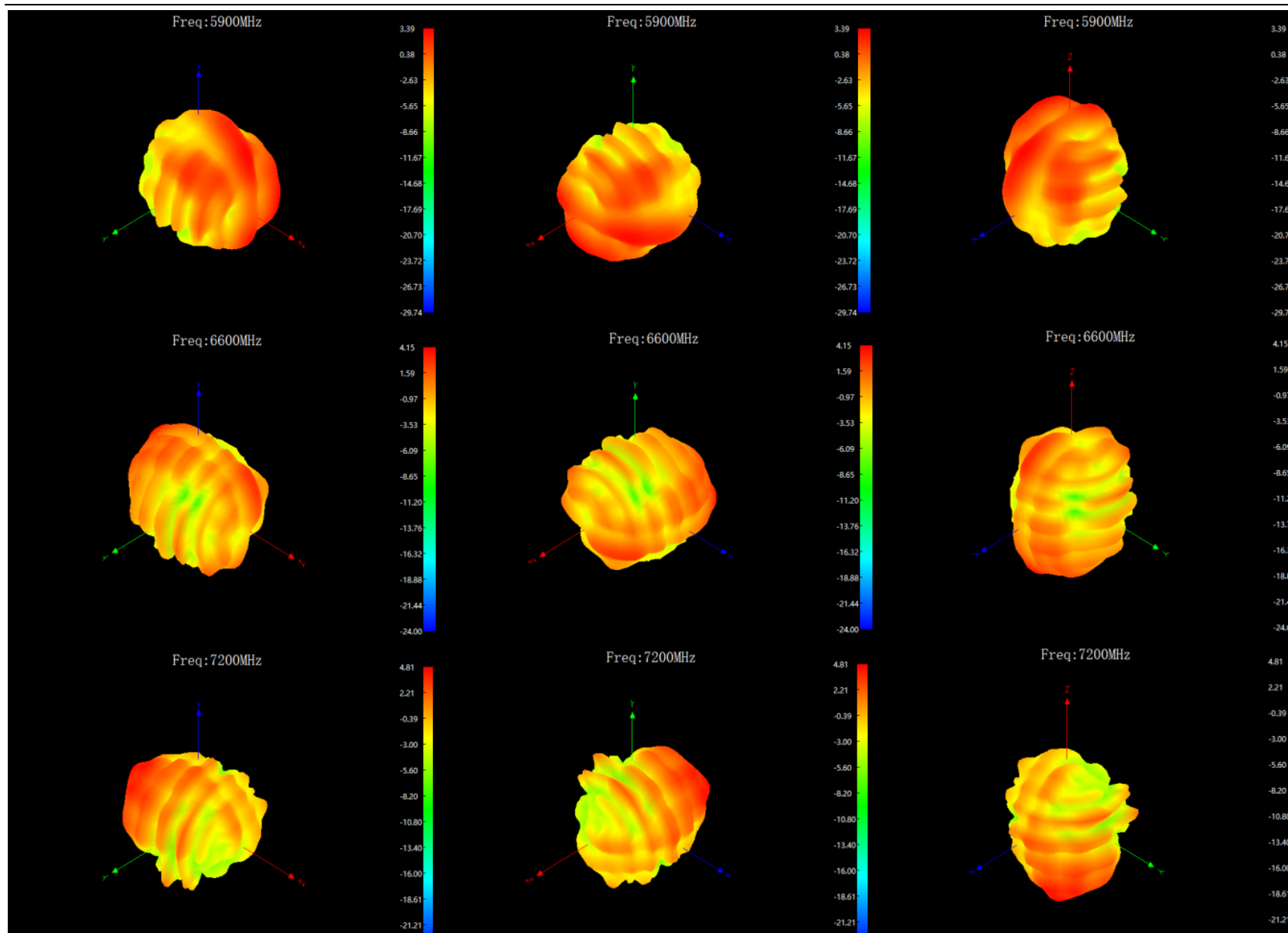
5150MHz



5850MHz









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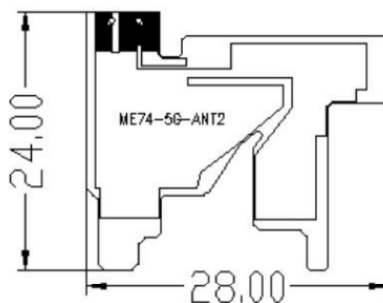
5:Antenna OTA parameters

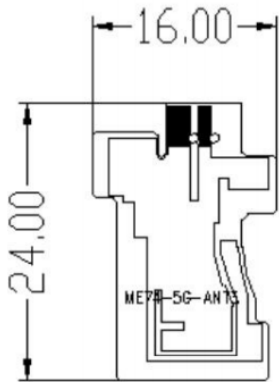
信道	2.4G-11B			2.4G-11G			2.4-11N			2.4G-11AX		
	CH1	CH7	CH13	CH1	CH7	CH13	CH1	CH7	CH13	CH1	CH7	CH13
TRP	16.68	17.16	17.71	14.41	14.92	14.71	14.43	14.92	15.75	15.05	15.25	15.62
TIS	-85.83	-86.06	-85.18	-74.35	-74.77	-74.19	-71.04	-71.16	-70.44	-61.74	-62.02	-61.21
信道	5G-11A			5G-11AC			5G-11AX			5G-11N		
	CH36	CH60	CH165	CH36	CH60	CH165	CH36	CH60	CH165	CH36	CH60	CH165
TRP	16.30	16.38	15.37	15.31	15.37	14.40	16.29	16.76	16.47	16.23	15.70	15.05
TIS	-74.35	-74.58	-74.95	-68.63	-68.60	-68.28	-62.32	-62.53	-62.29	-73.63	-73.87	-72.48
信道	BT											
	CH0	CH39	CH78									
TRP	3.74	3.75	2.83									
TIS	-89.86	-89.77	-88.98									

6:Motherboard change identification



7 : Structural drawings

1	2	3	4	5	6	7	8
料号	颜色	色号	供应商色号				
							
注: 1. "*"为重点尺寸, 孔位以适配为准; 2. FPC材料: 电解铜, 半对半; 3. 反面背胶 (3M900LSE); 4. 未标公差尺寸, 模具冲出尺寸公差为± 0.15, 铜箔线条尺寸公差为± 0.05, 标重点的孔公差为± 0.08; 5. 实心部分为镀金区, 画斜线的为铜箔区, 画交叉线的为背胶区; 6. 表面涂黑油亚光磨砂; 7. Pb, Hg, Cr+6, PBBs, PBDEs各项小于500PPM, Cd小于50PPM.							
				深圳市德仕勤科技有限公司			
				机 型	ME74-5G	日期	20240412
				项目编号		结构设计	
				零件名称	ANT2	射频设计	
				零件料号		审 核	
				材 质	PI	确 认	
				外观处理		单位	比例 ETT
				图纸保存路径		版本	T:A
日期	修 改	内 容	版 本	备 注			
1	2	3	4	5	6	7	8

1	2	3	4	5	6	7	8																																																
料号	颜色	色号	供应商色号																																																				
																																																							
注: 1. *为重要尺寸, 孔位以适配为准; 2. FPC材料: 电解铜, 半对半; 3. 反面背胶 (3M300LSE); 4. 未标公差尺寸, 模具冲出尺寸公差为± 0.15, 铜箔线条尺寸公差为± 0.05, 标重点的孔公差为± 0.03; 5. 实心部分为镀金区, 画斜线的为铜箔区, 画交叉线的为背胶区; 6. 表面涂黑油亚光磨砂; 7. Pb、Hg、Cr+6、PBBs、PBDEs各项小于500PPM, Cd小于50PPM.																																																							
				深圳市德仕勤科技有限公司 <table border="1"> <tr> <td>机 型</td> <td>ME74-5G</td> <td>日期</td> <td>20240412</td> <td>页码</td> <td>1 / 1</td> </tr> <tr> <td>项目编号</td> <td></td> <td>结构设计</td> <td></td> <td></td> <td></td> </tr> <tr> <td>零件名称</td> <td>ANT3</td> <td>封装设计</td> <td></td> <td></td> <td></td> </tr> <tr> <td>零件料号</td> <td></td> <td>审 核</td> <td></td> <td></td> <td></td> </tr> <tr> <td>材 质</td> <td>PI</td> <td>确 认</td> <td></td> <td></td> <td></td> </tr> <tr> <td>图纸保存路径</td> <td></td> <td>外源处理</td> <td></td> <td>单位</td> <td>mm</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>比例</td> <td>1:1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>版本</td> <td>T:A</td> </tr> </table>				机 型	ME74-5G	日期	20240412	页码	1 / 1	项目编号		结构设计				零件名称	ANT3	封装设计				零件料号		审 核				材 质	PI	确 认				图纸保存路径		外源处理		单位	mm					比例	1:1					版本	T:A
机 型	ME74-5G	日期	20240412	页码	1 / 1																																																		
项目编号		结构设计																																																					
零件名称	ANT3	封装设计																																																					
零件料号		审 核																																																					
材 质	PI	确 认																																																					
图纸保存路径		外源处理		单位	mm																																																		
				比例	1:1																																																		
				版本	T:A																																																		
日期	修 改 内 容	版 本	备 注																																																				
1	2	3	4	5	6	7	8																																																