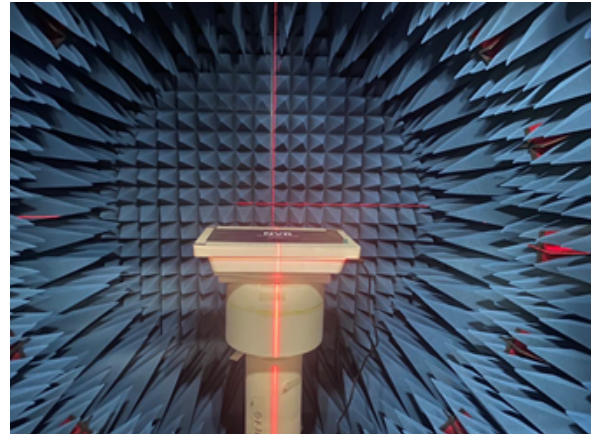
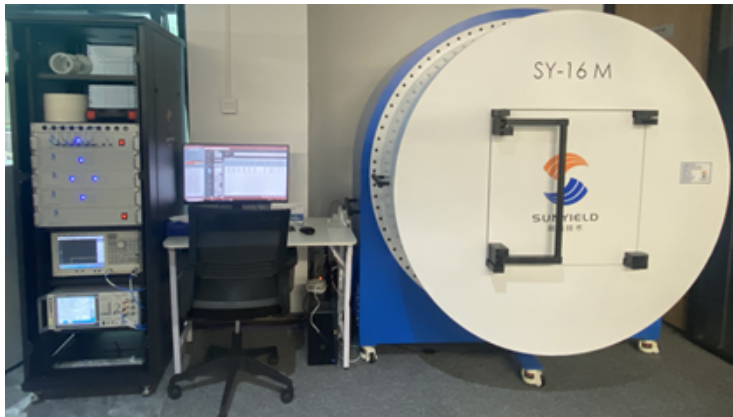


Laboratory test environment and equipment



测试项目Test Project	测试设备Test Equipment
S11、S12 、 VSWR 、 LOSS	Network Analyzer E5071B、 E5062A
Efficiency、 Gain 3D Radiation Pattern	Satimo SG16 anechoic chamber、 GP7*4*3 anechoic chamber、 E5071B
TRP、 TIS	Satimo SG16 anechoic chamber、 GP7*4*3 anechoic chamber、 8960 、 CMW500、 MT8820C、 E4438C、

电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500MHZ 5100-5800MHZ	Frequency Range	2400-2500MHZ 5100-5800MHZ
电压驻波比	≤1.7	VSWR	≤1.7
增益	≤6.75DBI	GAIN	≤6.75DBI
辐射方式	全向	Radiation	OMNI
极化方式	垂直	Polarizatin	LINEAR
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
接口形式		Input connector	
天线材质	Glue stick	Antenna materia	Glue stick
工作温度	-30℃~+80℃	Working Temperature	-30℃~+80℃
工作湿度	40~85%	Working Humidity	40~85%

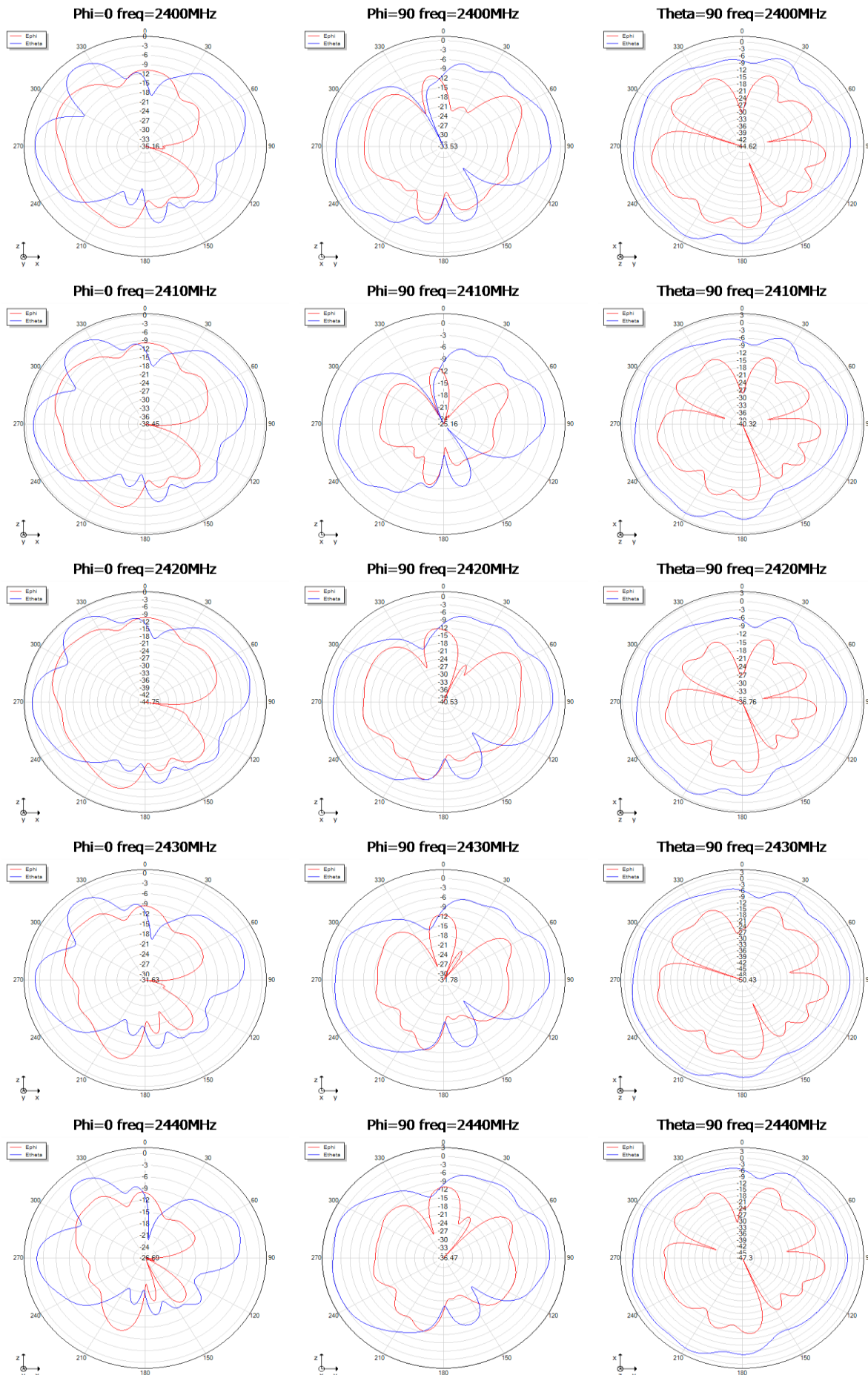
Test prototype

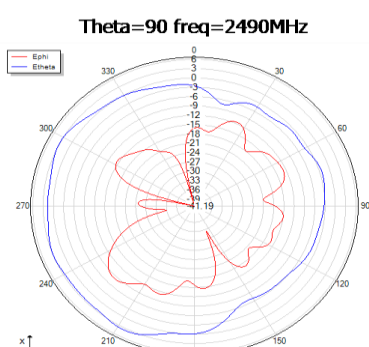
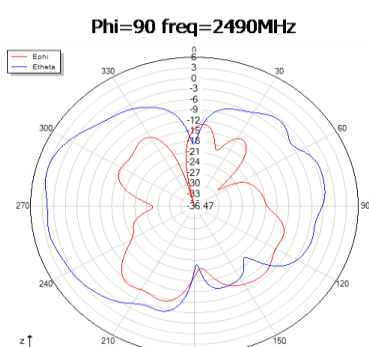
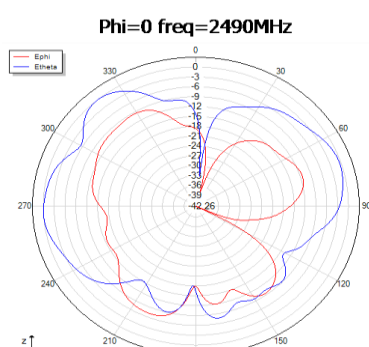
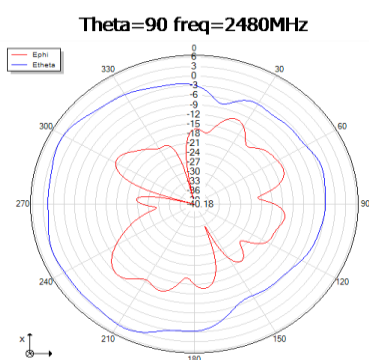
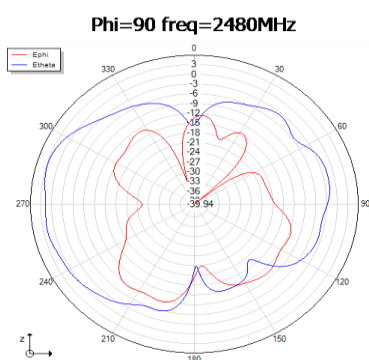
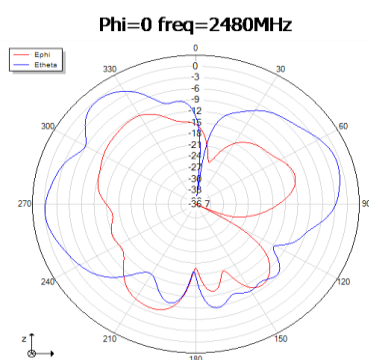
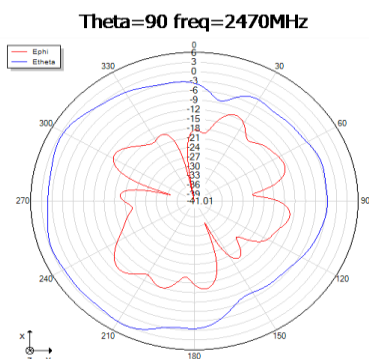
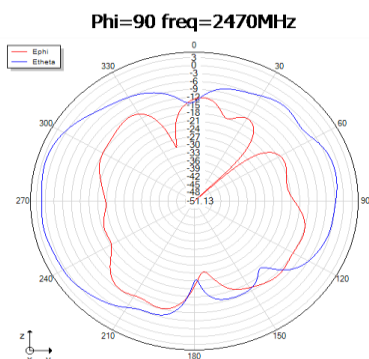
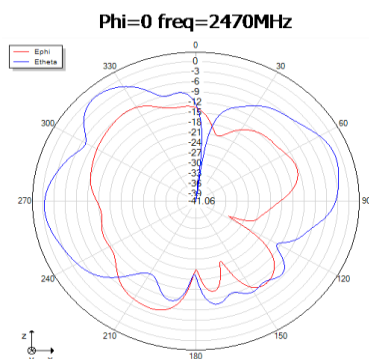
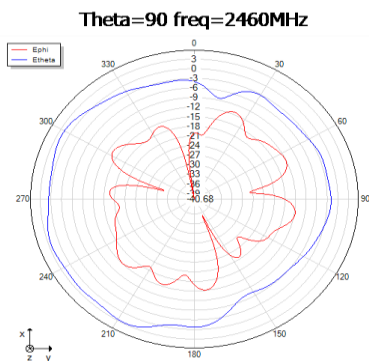
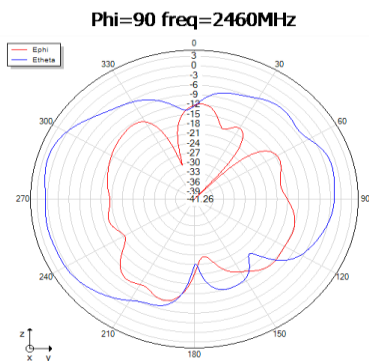
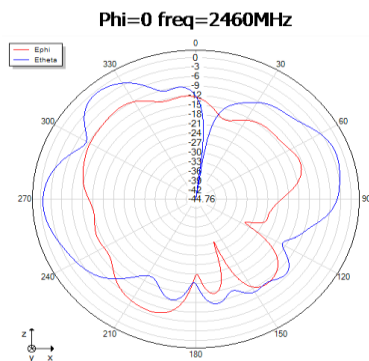
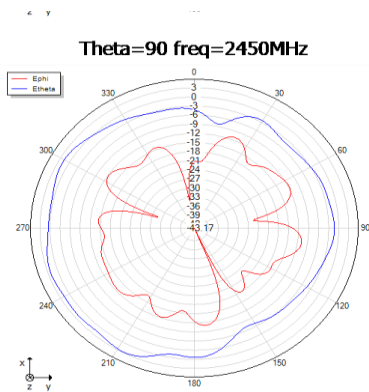
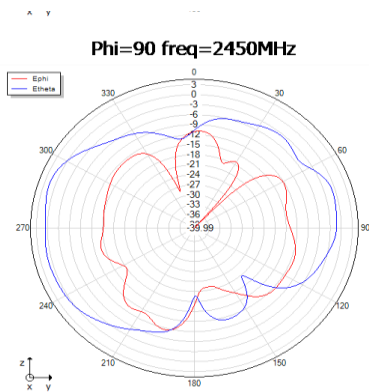
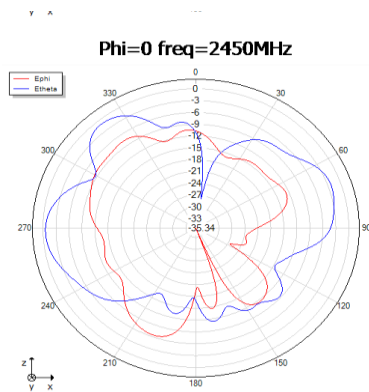


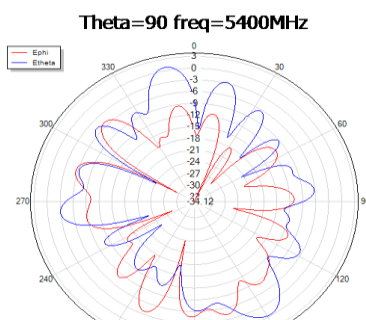
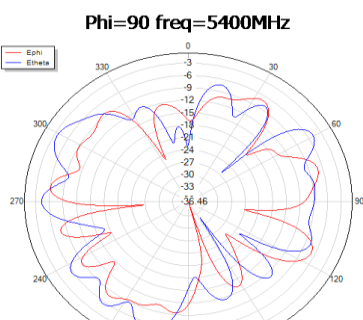
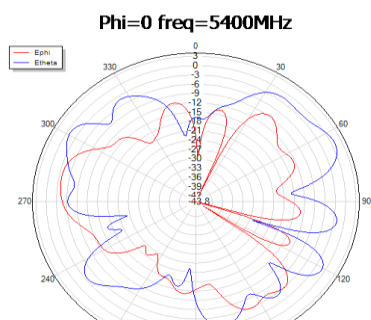
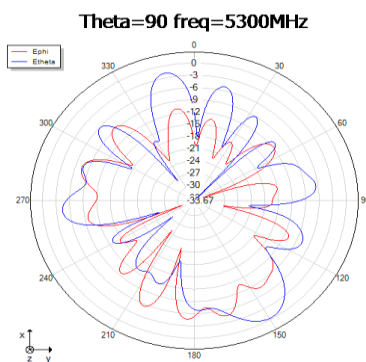
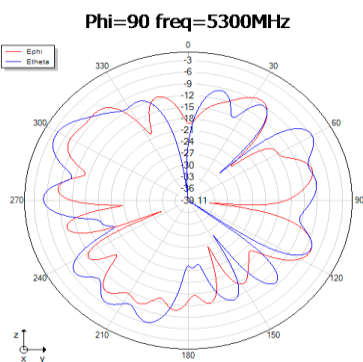
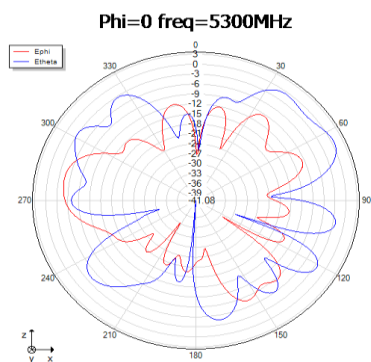
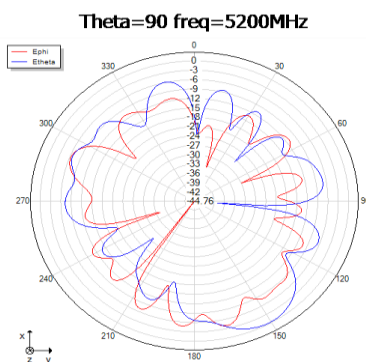
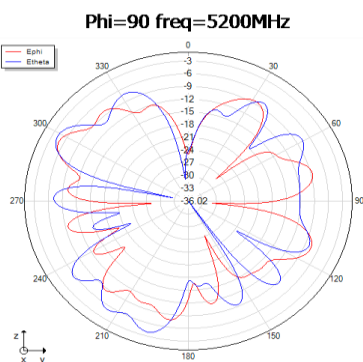
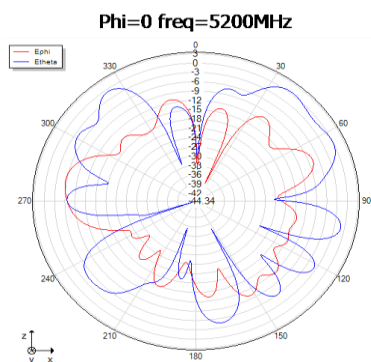
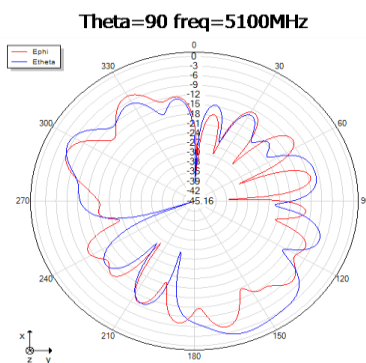
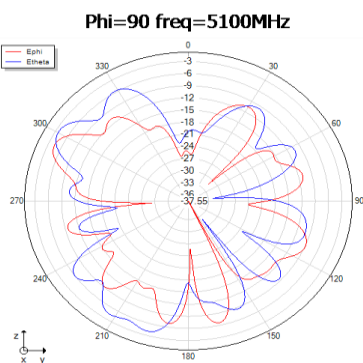
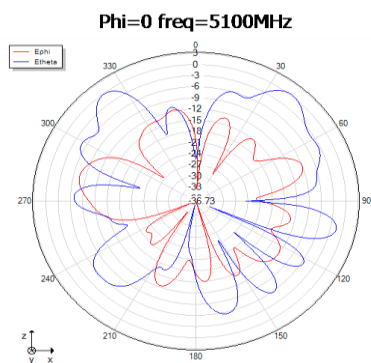
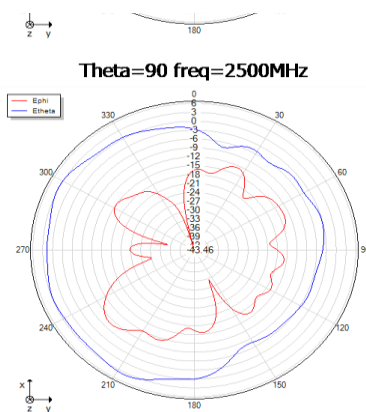
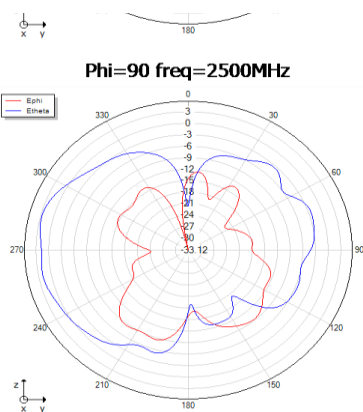
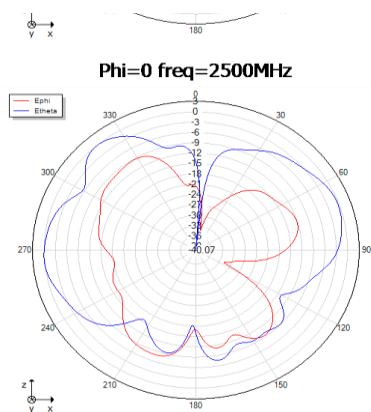
Gain efficiency test data

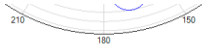
 新益技术																			
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5100	5200	5300	5400	5500	5600	5700	5800
Gain (dBi)	0.19	0.86	0.75	1.71	2.09	2.92	2.87	3.40	3.83	3.88	3.95	4.01	5.10	4.93	5.41	5.61	6.28	6.35	6.75
Efficiency (dB)	-5.02	-4.17	-4.56	-3.94	-3.79	-3.06	-3.21	-2.82	-2.43	-2.43	-2.43	-4.04	-3.61	-4.17	-3.97	-3.64	-3.38	-3.78	-3.58
Efficiency (%)	31.49	38.27	35.02	40.38	41.76	49.40	47.80	52.28	57.17	57.09	57.14	39.43	43.56	38.27	40.09	43.30	45.89	41.88	43.87
Plane : Phi=0	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5100	5200	5300	5400	5500	5600	5700	5800
Plane : Phi=90	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5100	5200	5300	5400	5500	5600	5700	5800
Plane : Theta=90	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5100	5200	5300	5400	5500	5600	5700	5800

Directivity test data

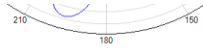
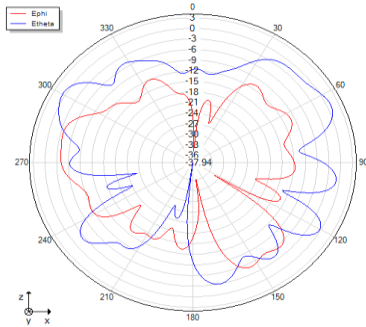




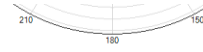
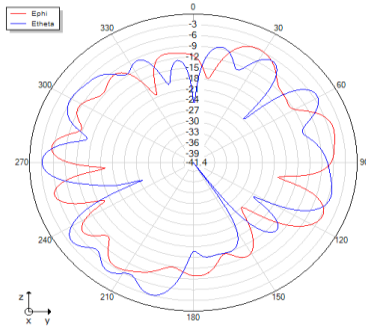




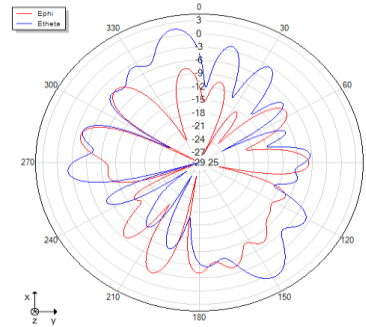
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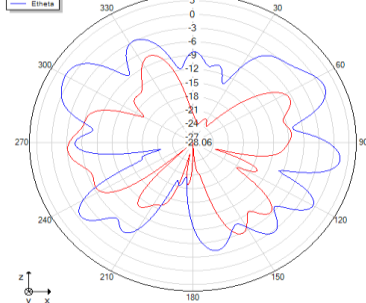
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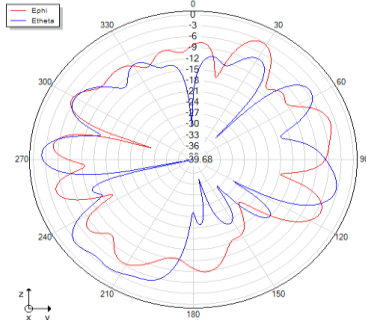
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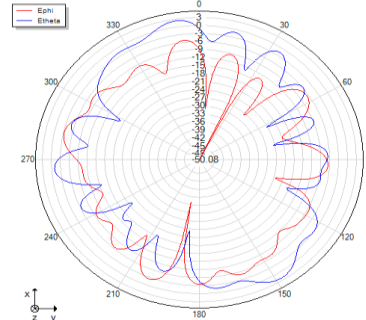
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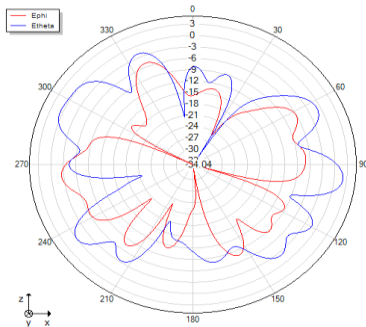
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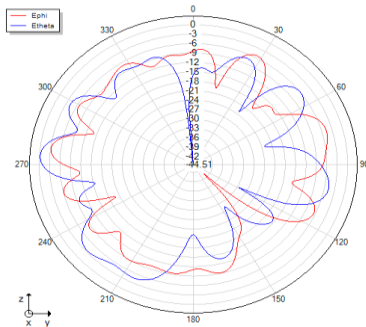
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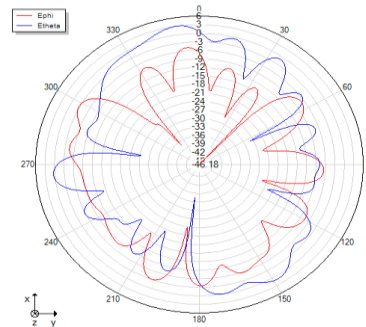
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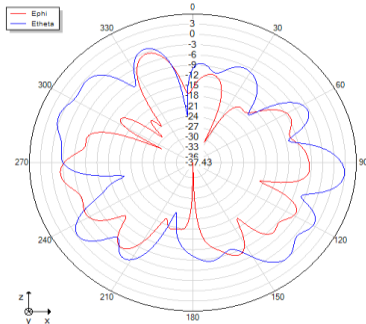
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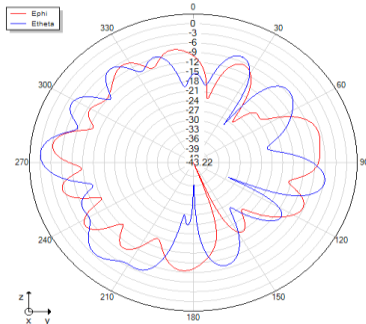
Theta=90 freq=5700MHz



Phi=0 freq=5800MHz



Phi=90 freq=5800MHz



Theta=90 freq=5800MHz

