

Customer	立讯精密工业股份有限公司（Luxshare Precision Industry Co., Ltd.）
Manufacturer	SUNPLUS TECHNOLOGY CO.,LTD
Address	19,Innovation First Road Hsinchu Science Park,Taiwan 30076
Model number	SPA-MW21xx-M
Antenna type	PCB 板载天线（PCB On-board Antenna）
Antenna polarization	线极化天线 (Line polarized antenna)

2.4G+5G 双频天线

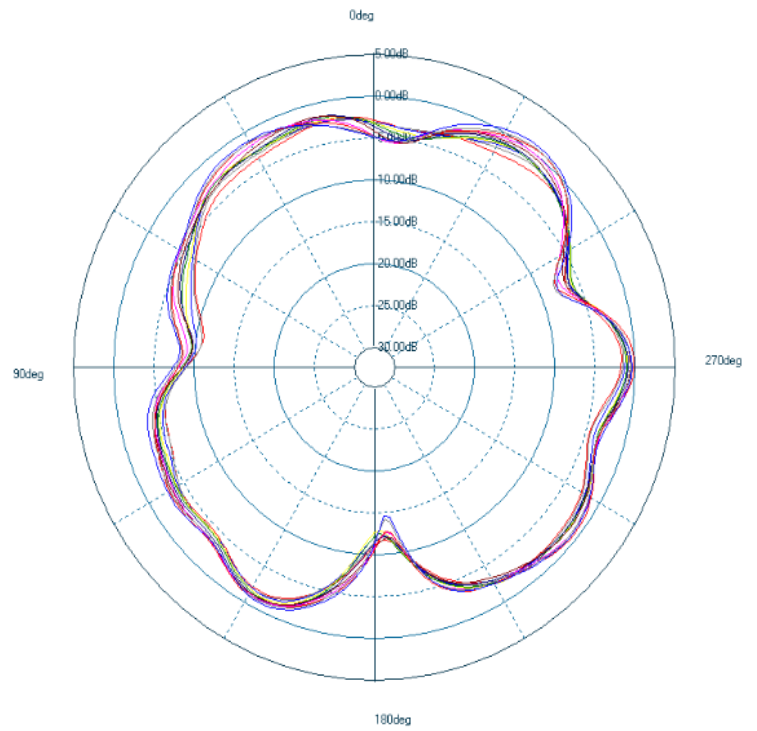
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2400000000	44%	-3.54	2400000000	1.76
2410000000	46%	-3.41	2410000000	1.89
2420000000	48%	-3.19	2420000000	2.12
2430000000	50%	-3.02	2430000000	2.32
2440000000	51%	-2.94	2440000000	2.13
2450000000	52%	-2.85	2450000000	1.86
2460000000	52%	-2.81	2460000000	1.63
2470000000	55%	-2.62	2470000000	2.24
2480000000	57%	-2.47	2480000000	2.55
2490000000	56%	-2.53	2490000000	2.49
2500000000	58%	-2.38	2500000000	2.88
5150000000	43%	-3.67	5150000000	2.43
5200000000	42%	-3.73	5200000000	2.54
5250000000	43%	-3.62	5250000000	2.67
5300000000	44%	-3.57	5300000000	2.69
5350000000	44%	-3.53	5350000000	2.44
5400000000	44%	-3.52	5400000000	2.52
5450000000	43%	-3.65	5450000000	2.47
5500000000	48%	-3.16	5500000000	2.53
5550000000	49%	-3.07	5550000000	2.79
5600000000	50%	-3.00	5600000000	3.32
5650000000	51%	-2.91	5650000000	3.83
5700000000	52%	-2.84	5700000000	4.12
5750000000	52%	-2.85	5750000000	4.17
5800000000	52%	-2.84	5800000000	4.62
5850000000	52%	-2.81	5850000000	4.56

2.4G 的 peak Gain(最大增益)是 2.55dBi, 5G 的 peak Gain(最大增益)是 4.62dBi。

2D Pattern:

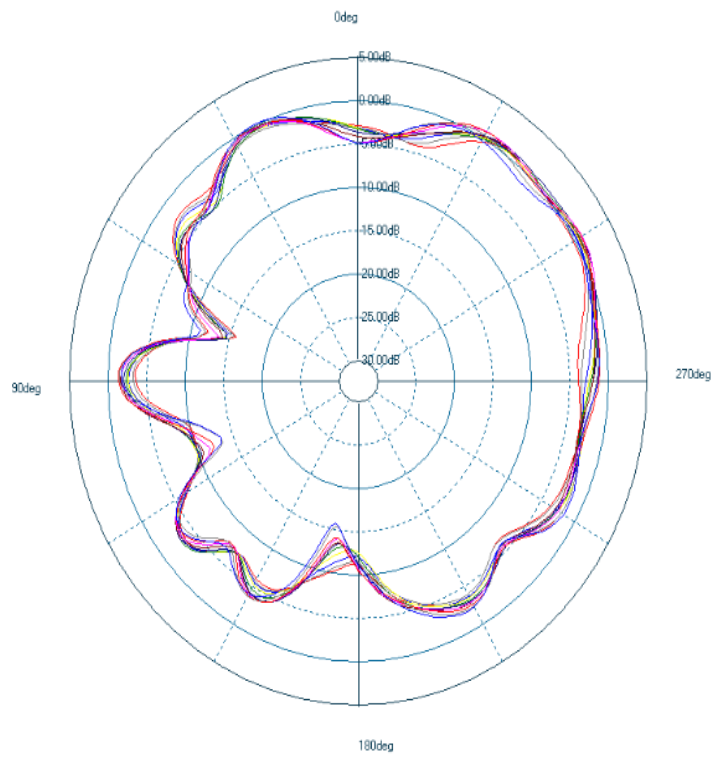
Phi 0

Legend
2400.00(MHz)
2410.00(MHz)
2420.00(MHz)
2430.00(MHz)
2440.00(MHz)
2450.00(MHz)
2460.00(MHz)
2470.00(MHz)
2480.00(MHz)
2490.00(MHz)
2500.00(MHz)

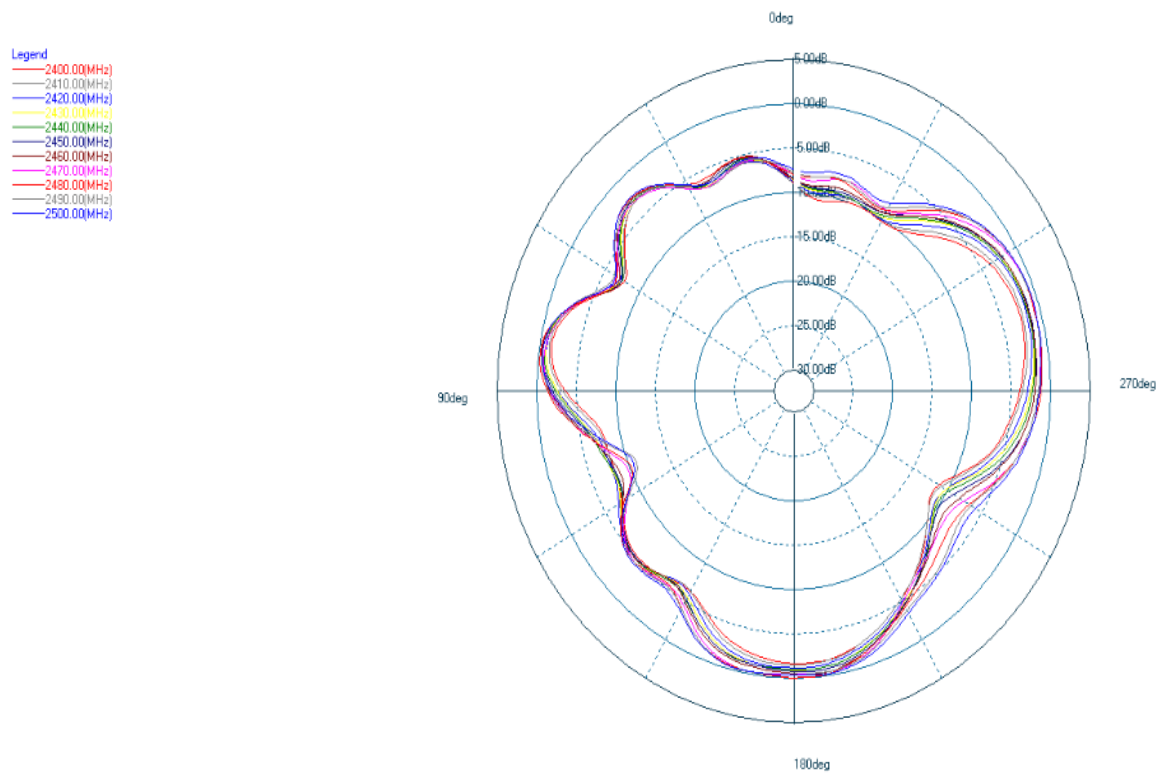


Phi 90

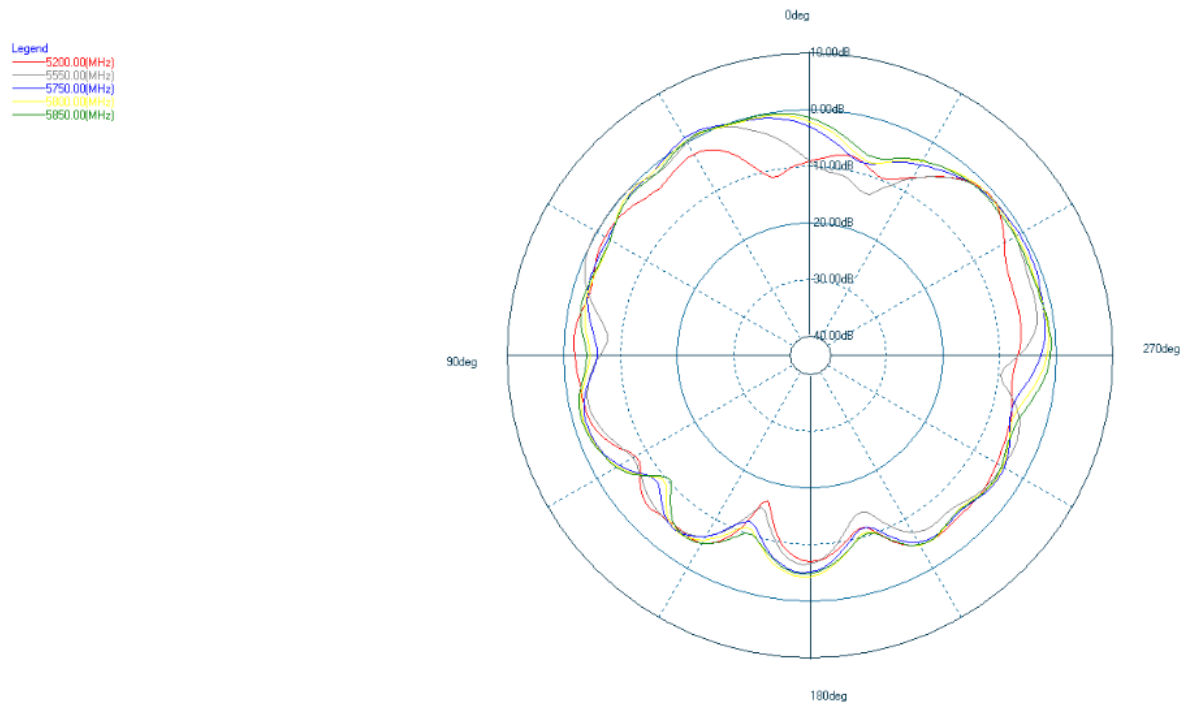
Legend
2400.00(MHz)
2410.00(MHz)
2420.00(MHz)
2430.00(MHz)
2440.00(MHz)
2450.00(MHz)
2460.00(MHz)
2470.00(MHz)
2480.00(MHz)
2490.00(MHz)
2500.00(MHz)



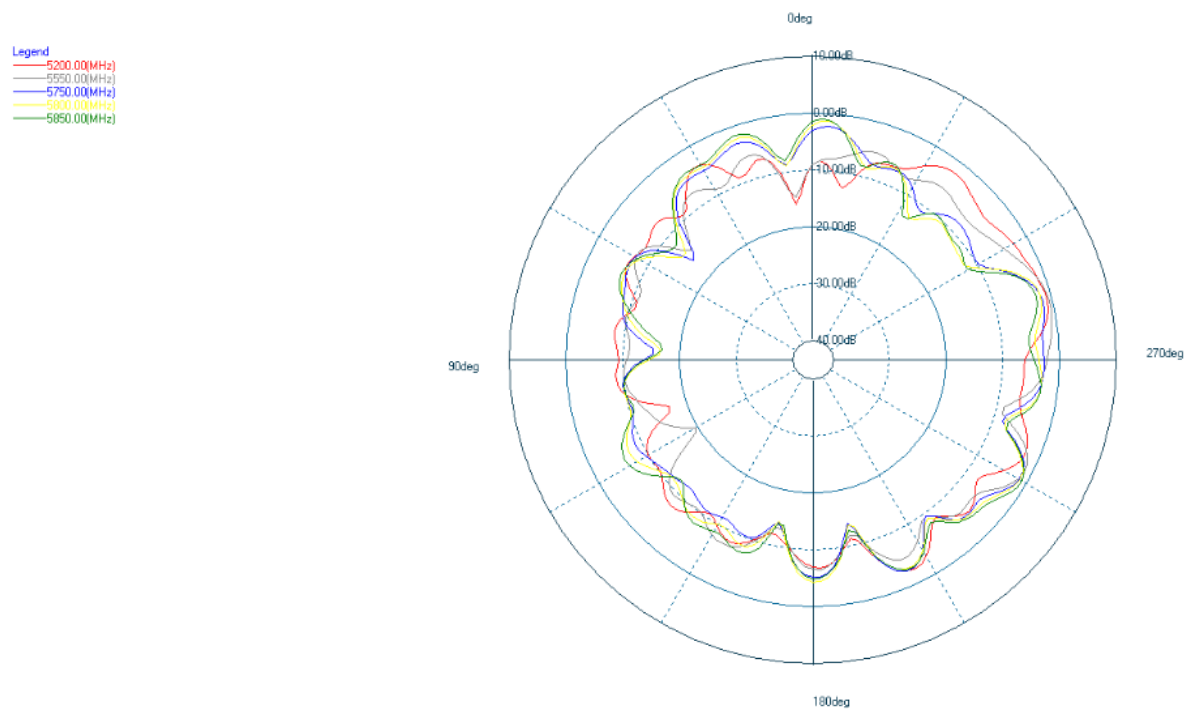
Theta 90



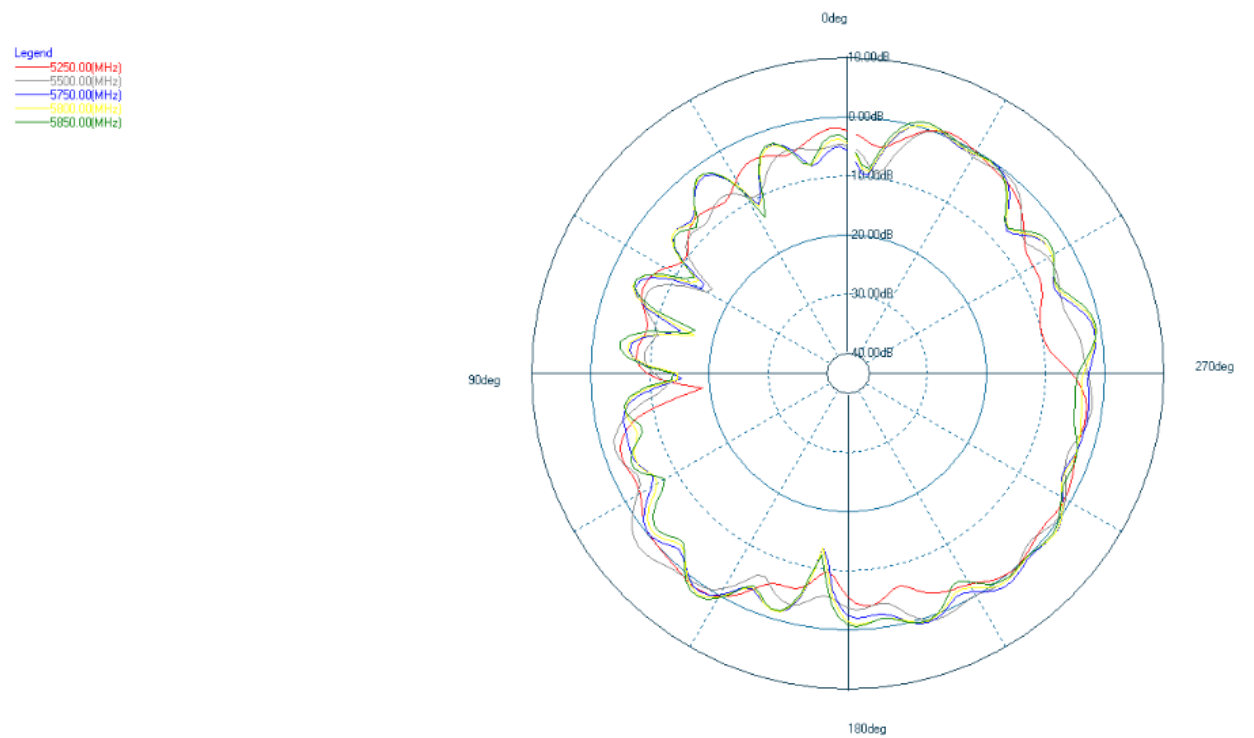
Phi 0



Phi 90

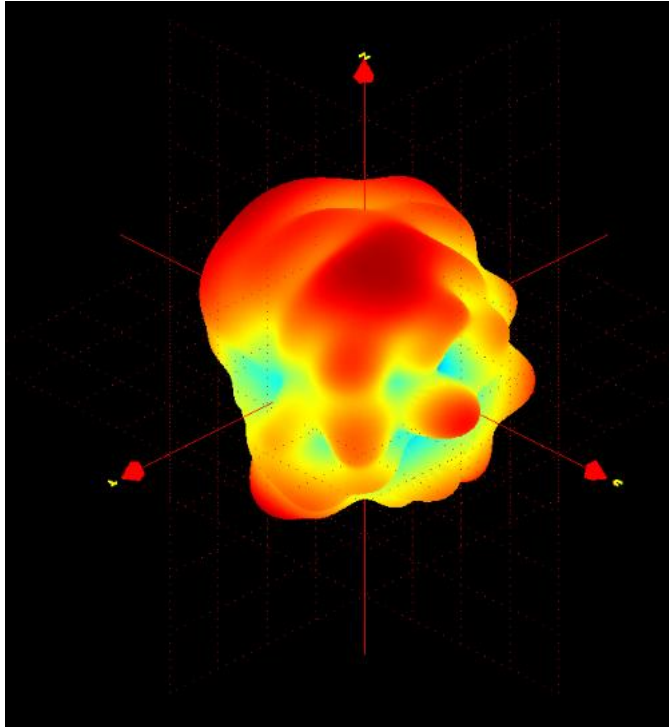


Theta 90

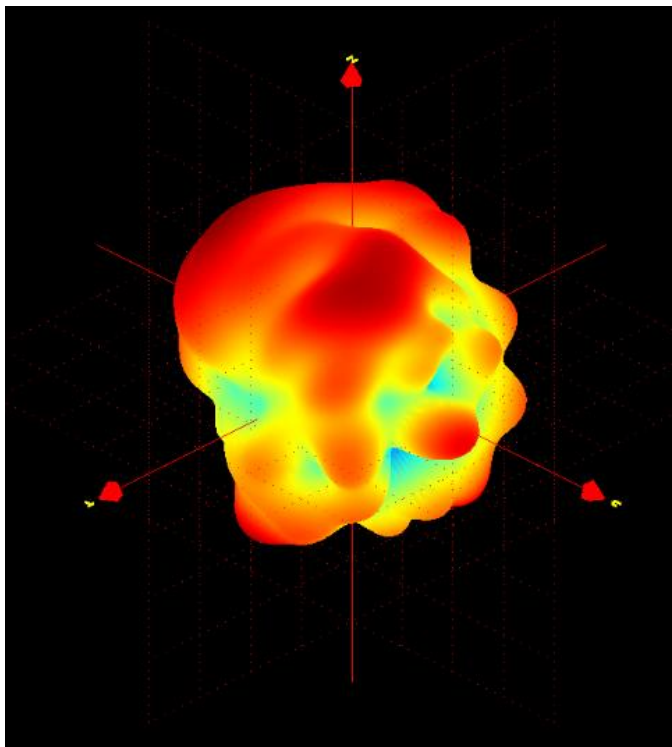


3D Pattern:

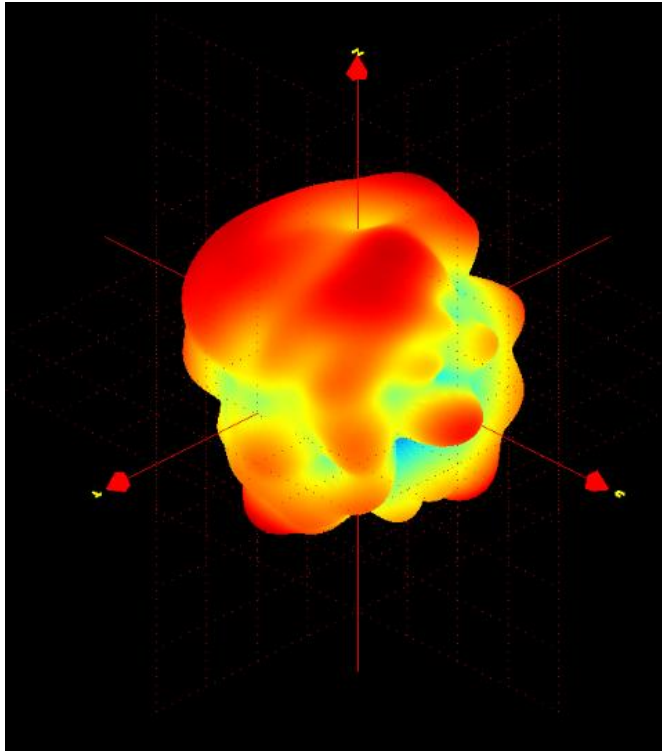
2400MHz



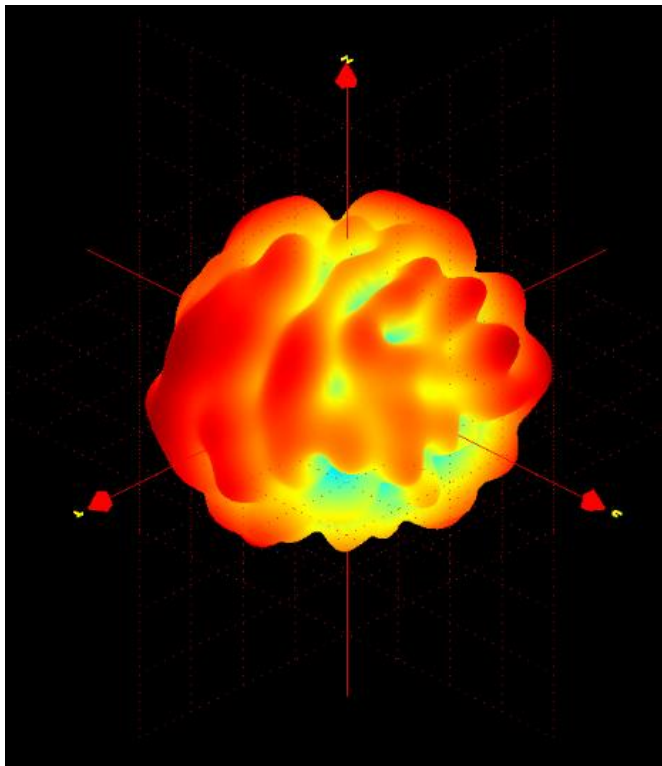
2450MHz



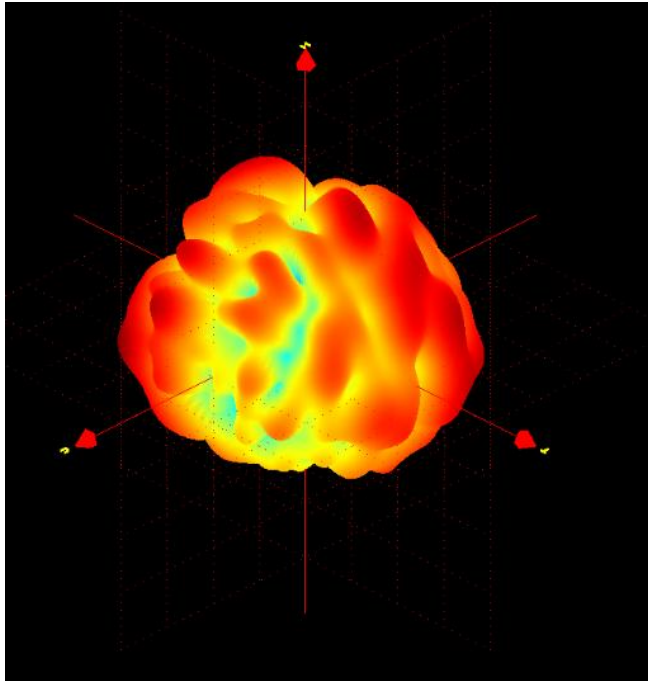
2500MHz



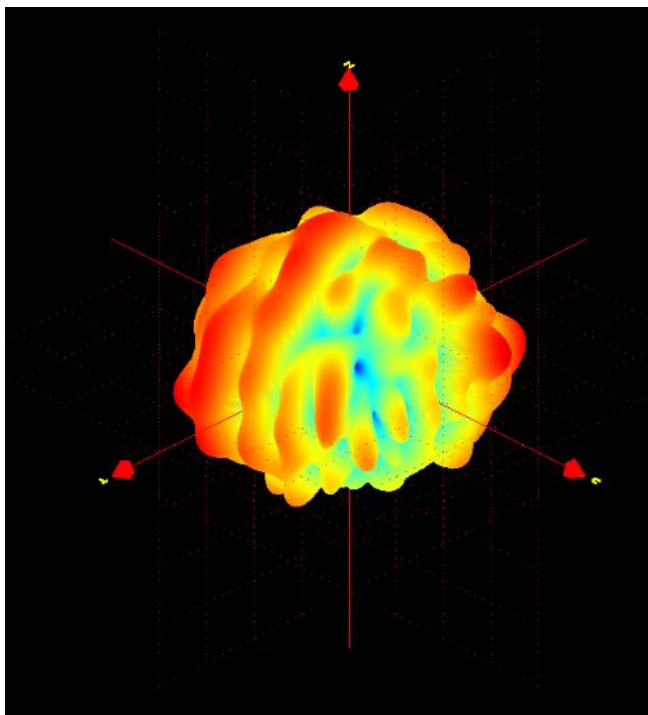
5150MHz



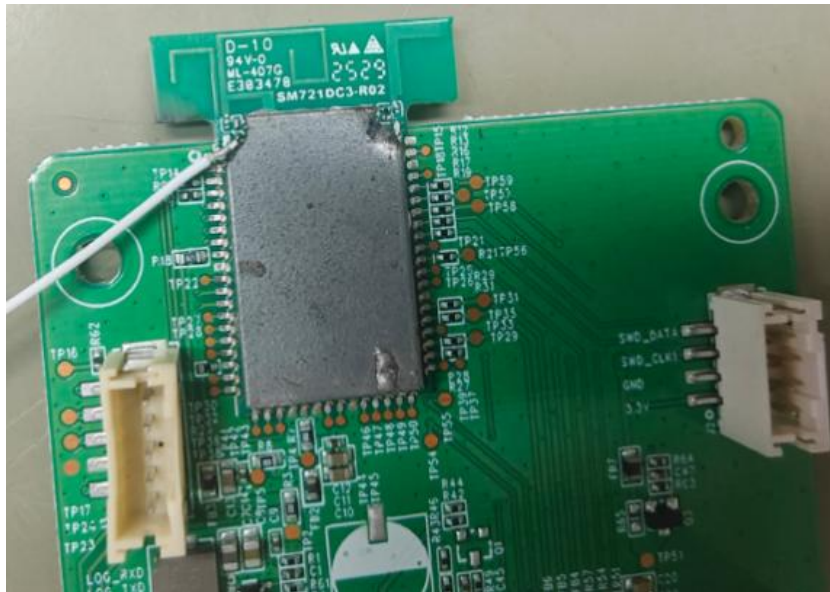
5500MHz



5850MHz



天线图纸:



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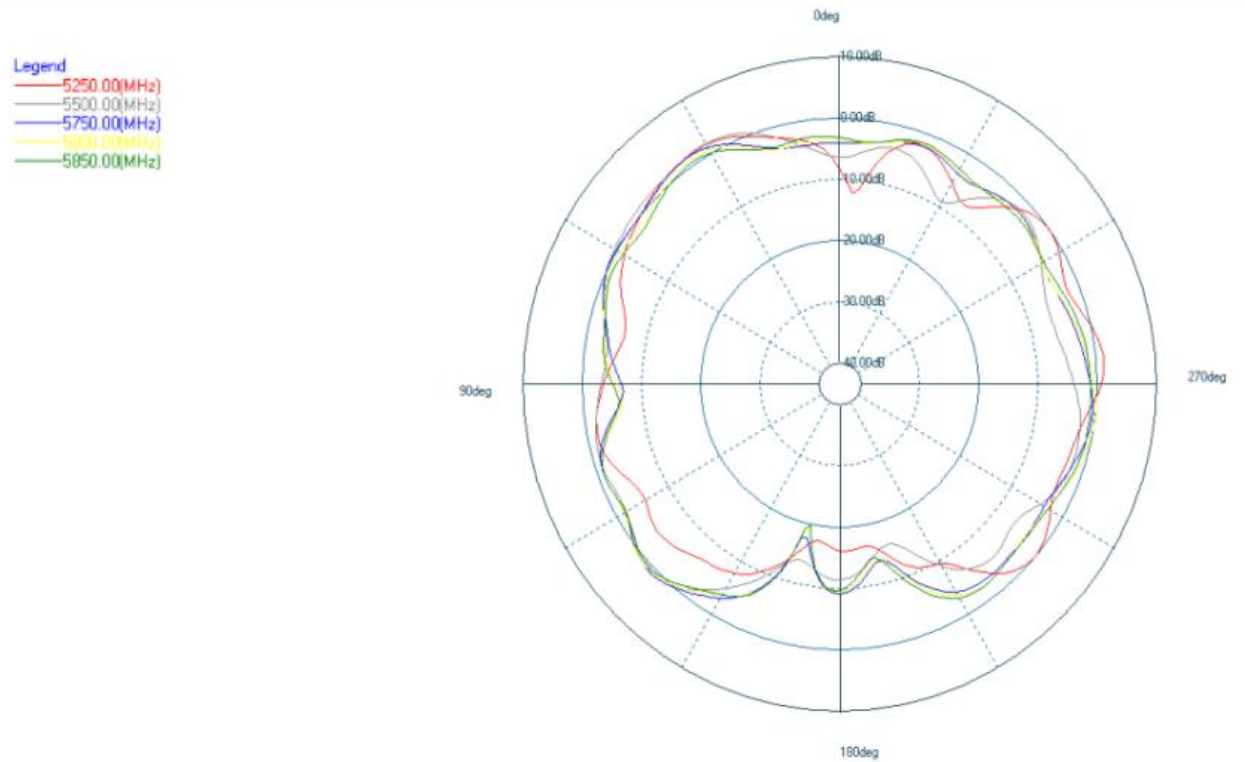
单 5G 天线

Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
5150000000	47%	-3.30	5150000000	3.04
5200000000	46%	-3.38	5200000000	2.45
5250000000	46%	-3.33	5250000000	2.28
5300000000	47%	-3.25	5300000000	1.77
5350000000	48%	-3.19	5350000000	2.52
5400000000	47%	-3.27	5400000000	3.47
5450000000	45%	-3.44	5450000000	3.18
5500000000	45%	-3.48	5500000000	3.19
5550000000	45%	-3.46	5550000000	3.00
5600000000	44%	-3.55	5600000000	3.11
5650000000	45%	-3.51	5650000000	3.06
5700000000	45%	-3.46	5700000000	3.38
5750000000	45%	-3.44	5750000000	3.52
5800000000	45%	-3.44	5800000000	3.77
5850000000	45%	-3.50	5850000000	3.98

5G 的 peak Gain(最大增益)是 3.98dBi。

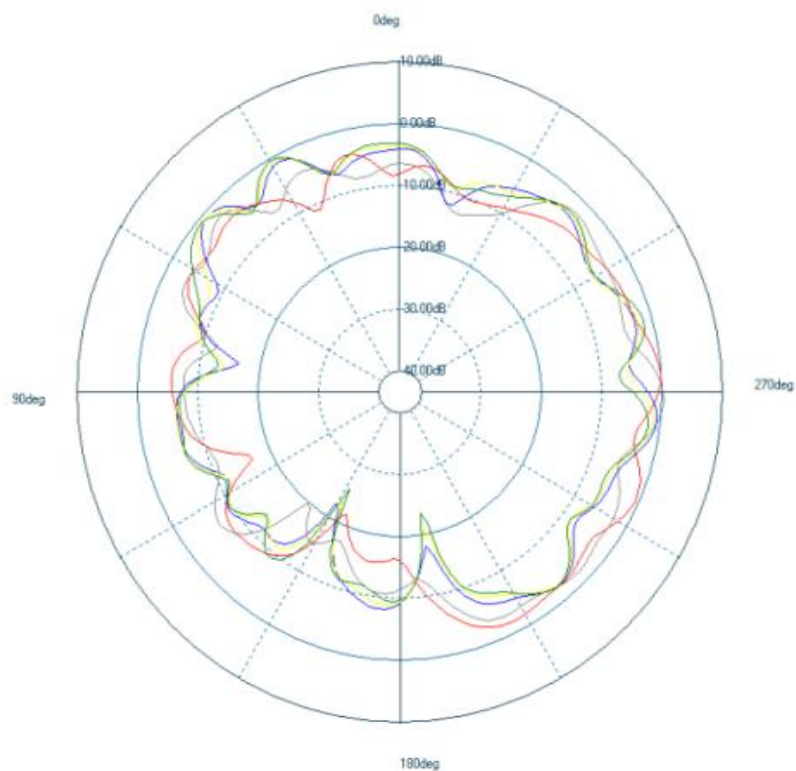
2D Pattern:

Phi 0



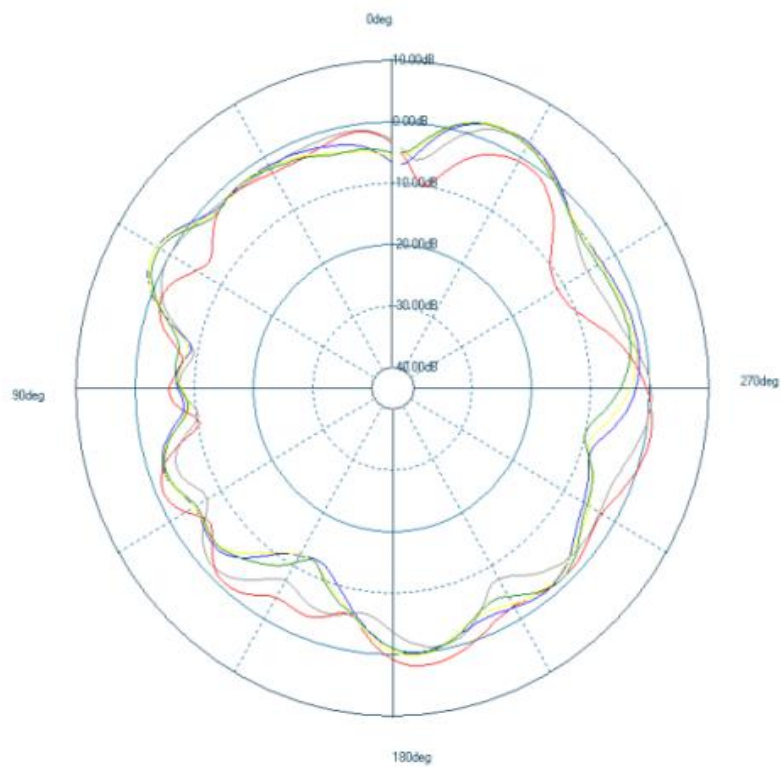
Phi 90

Legend
 5250.00(MHz)
 5500.00(MHz)
 5750.00(MHz)
 5900.00(MHz)
 5950.00(MHz)



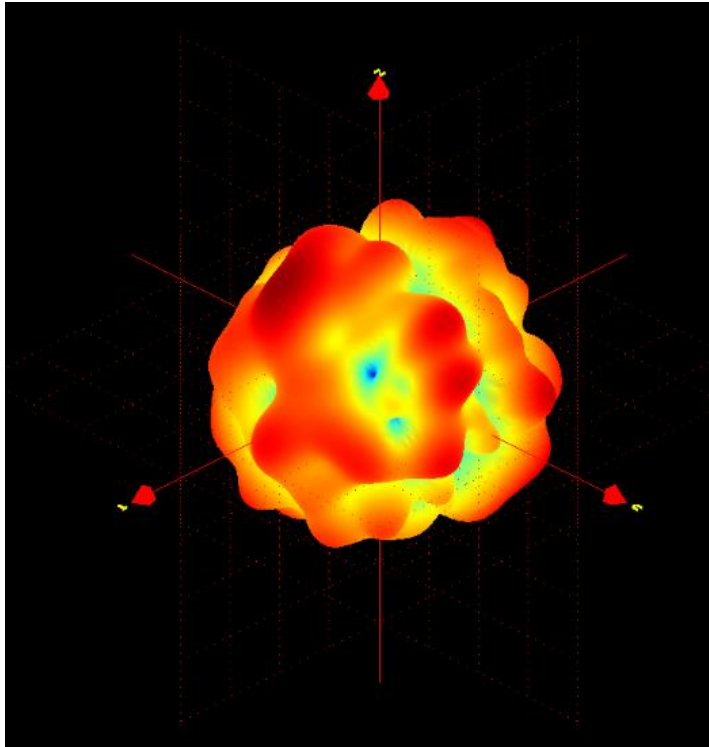
Theta 90

Legend
 5250.00(MHz)
 5500.00(MHz)
 5750.00(MHz)
 5900.00(MHz)
 5950.00(MHz)

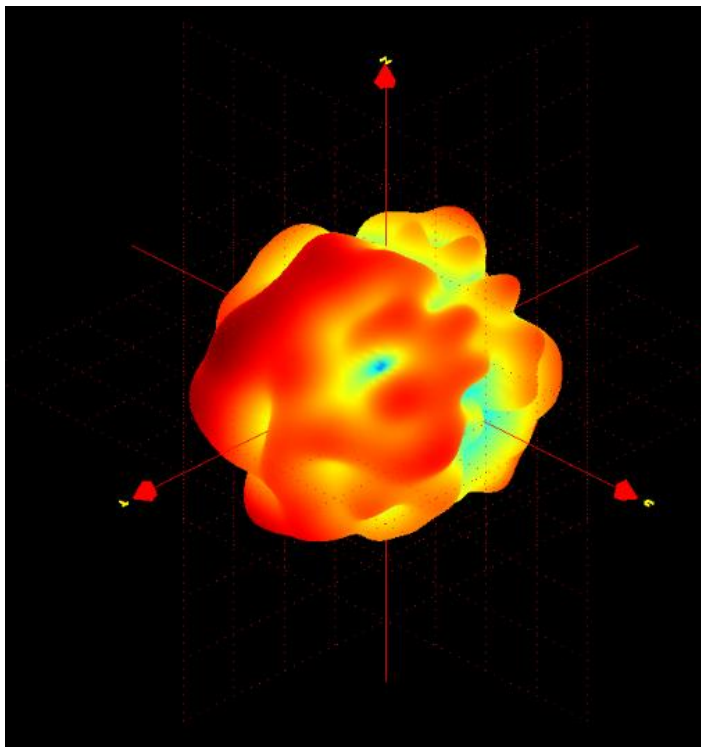


3D Pattern:

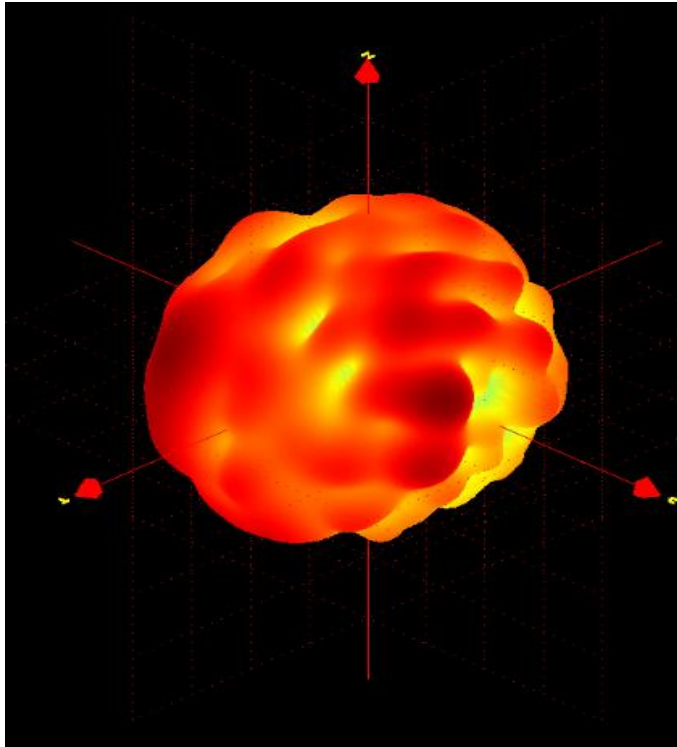
5150MHz



5500MHz



5850MHz



天线图纸

