

天线测试数据

天线类型：五频玻璃钢全向天线

天线型号：TQJ-0809142458AG3

检测类型：样品测量（1副）

测量日期：2022年7月27日

测试人员：测试中心(3D暗室)

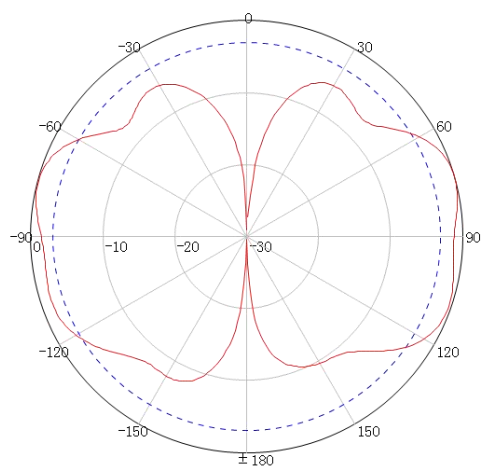
天线外形尺寸： $\phi 37.2 \times (770 \pm 5)$

序号	测量项目	指标要求	单位	测量结果	
1	频率范围	832~862 900~930 1410~1470 2400~2500 4900~5900	MHz	832~862 900~930 1410~1470 2400~2500 4900~5900	
2	电压驻波比	832~862@ ≤ 2 900~930@ ≤ 2 1410~1470 ≤ 2.3 2400~2500@ ≤ 2.3 4900~5900@ ≤ 2.5	/	832~862@ ≤ 1.5 900~930@ ≤ 1.65 1410~1470 ≤ 2.06 2400~2500@ ≤ 1.97 4900~5900@ $\leq$ 参考	
3	增益	2	dBi	832 MHz	1.55
				847 MHz	1.64
				862 MHz	1.84
				900MHz	1.77
				915MHz	1.68
				930MHz	1.87
				1410 MHz	2.39
				1440 MHz	2.83
				1470 MHz	2.07
				2400MHz	2.27
				2450MHz	2.59
				2500MHz	2.27
				4900MHz	1.48
				5550MHz	2.98
4	水平面不圆度	832~862@ ± 1.5 900~930@ ± 1.5 1410~1470@ ± 1.5 2400~2500@ ± 2 4900~5900@ ± 3	dB	832 MHz	0.23
				847 MHz	0.23
				862 MHz	0.17
				900MHz	0.08
				915MHz	0.16
				930MHz	0.22
				1410 MHz	1.12
				1440 MHz	1.04

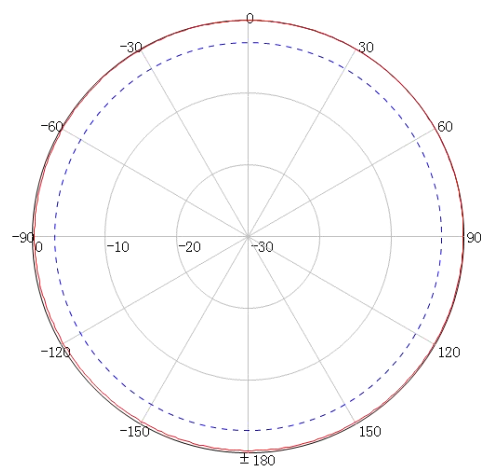
				1470 MHz	1.1
				2400MHz	1.68
				2450MHz	1.79
				2500MHz	0.87
				4900MHz	1.17
				5550MHz	2.2
				5900MHz	3
5	H 面波束宽度	360	°	832 MHz	360
				847 MHz	360
				862 MHz	360
				900MHz	360
				915MHz	360
				930MHz	360
				1410 MHz	360
				1440 MHz	360
				1470 MHz	360
				2400MHz	360
				2450MHz	360
				2500MHz	360
				4900MHz	360
				5550MHz	360
				5900MHz	360
6	E 面波束宽度	68 ± 25 $30 \pm 8 @ 4900 \sim 5900$	°	832 MHz	66.41
				847 MHz	68.09
				862 MHz	67.97
				900MHz	70.06
				915MHz	70.17
				930MHz	73.37
				1410 MHz	88.18
				1440 MHz	83.4
				1470 MHz	78.88
				2400MHz	15 (参考)
				2450MHz	16.5 (参考)
				2500MHz	35 (参考)
				4900MHz	30.52
				5550MHz	25.8
				5900MHz	25.52

附方向图

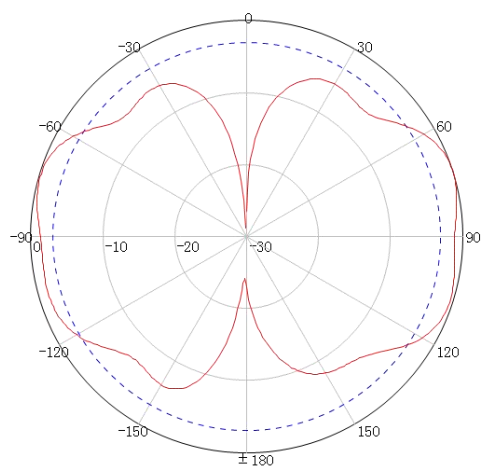
1) 840MHz 频段：



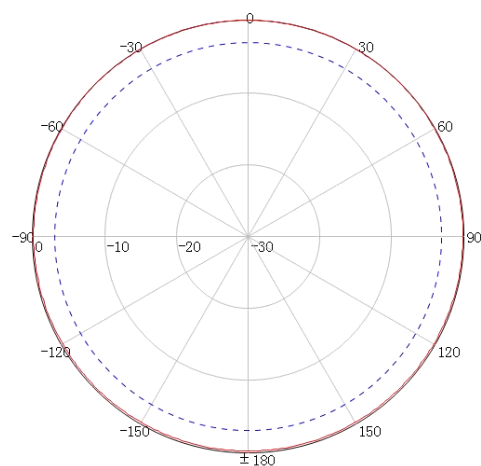
E 面 (832MHz)



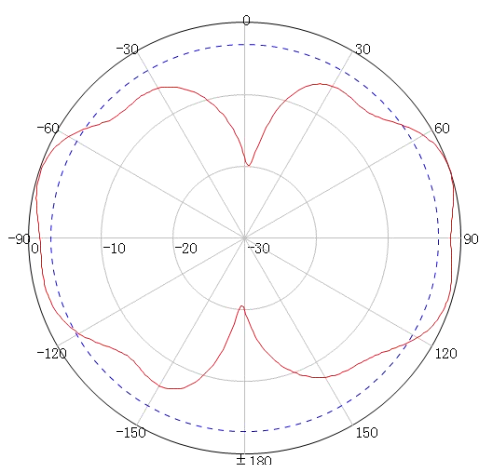
H 面 (832MHz)



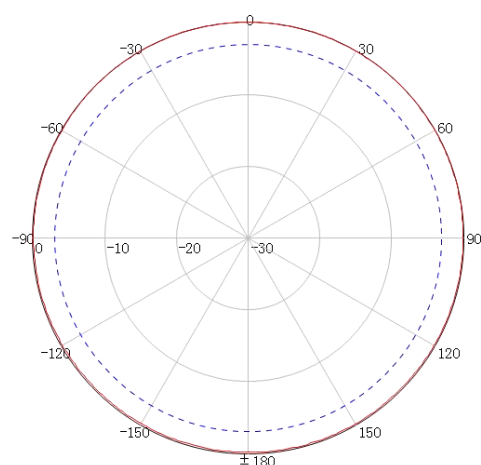
E 面 (847MHz)



H 面 (847MHz)

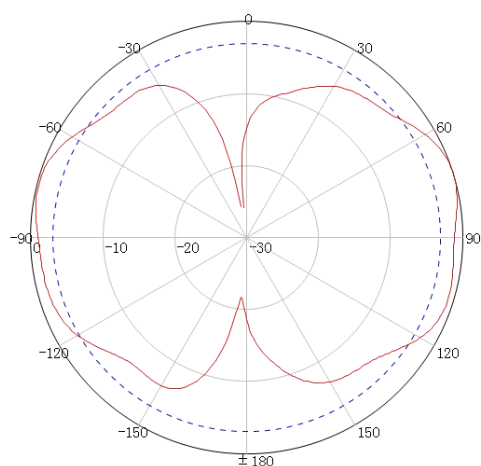


E 面 (862MHz)

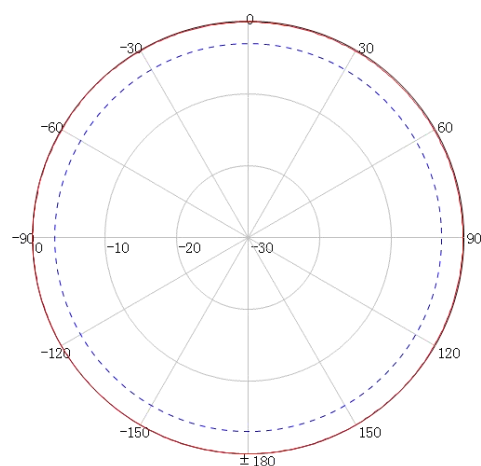


H 面 (862MHz)

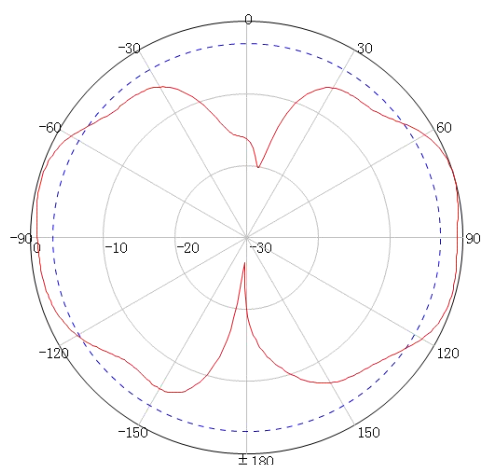
2) 900MHz 频段：



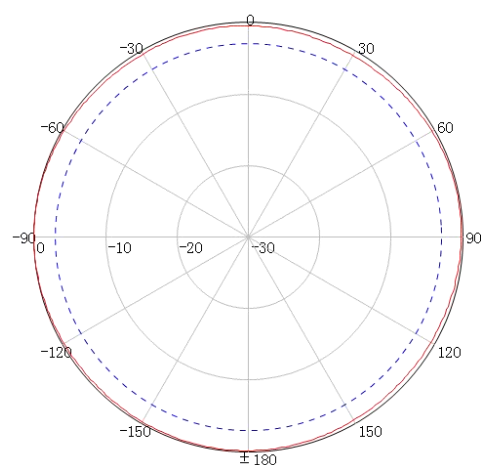
E 面 (900MHz)



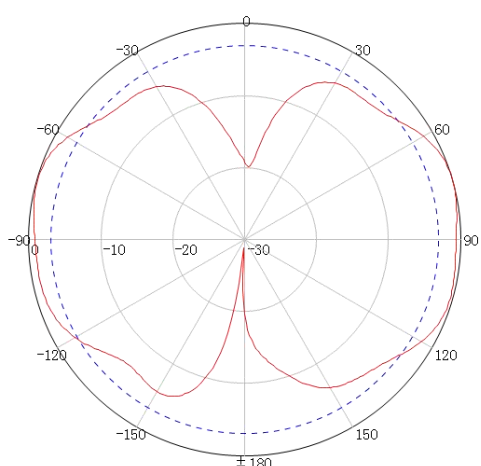
H 面 (900MHz)



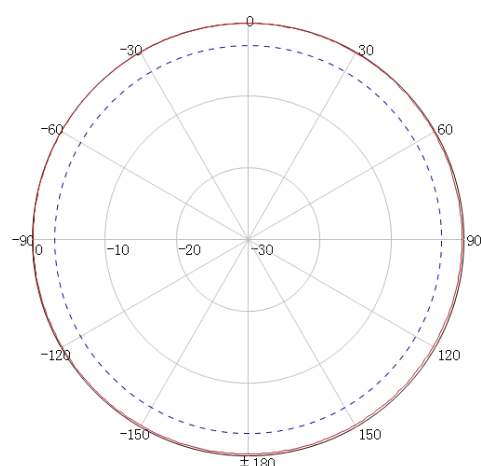
E 面 (915MHz)



H 面 (915MHz)

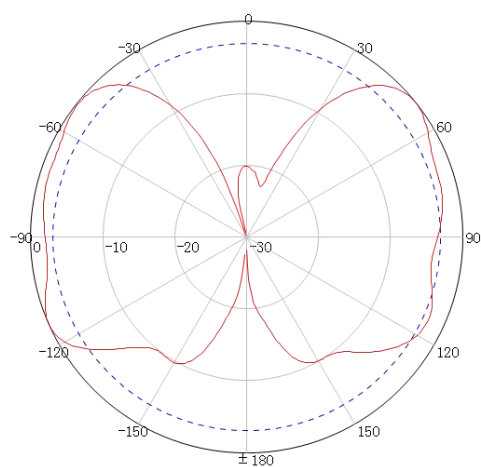


E 面 (930MHz)

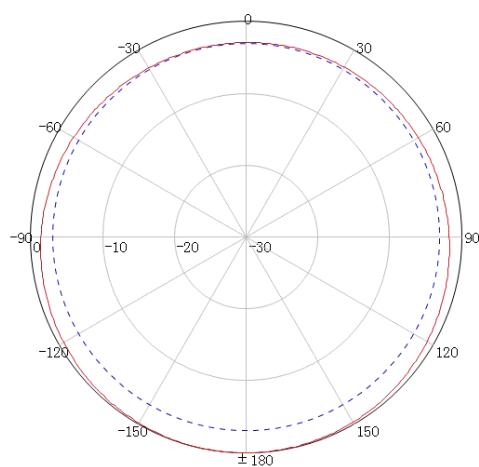


H 面 (930MHz)

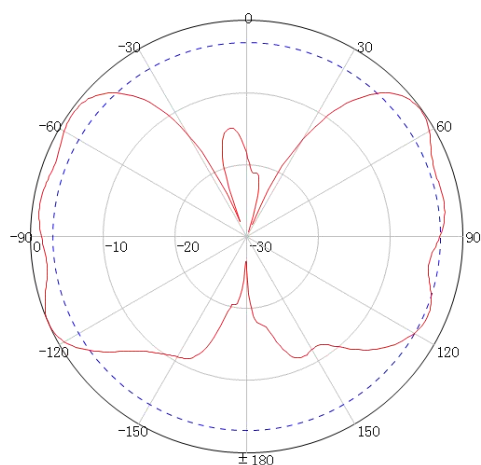
3) 1.4GHz 频段:



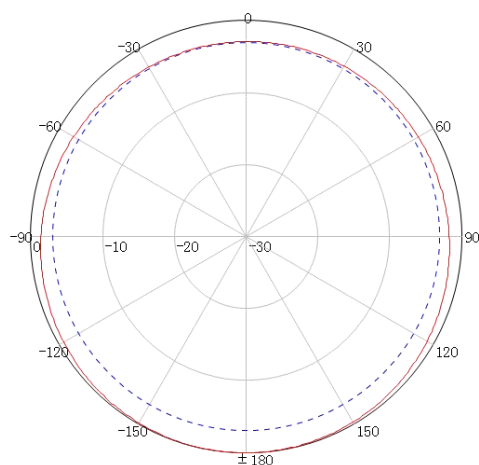
E 面 (1410MHz)



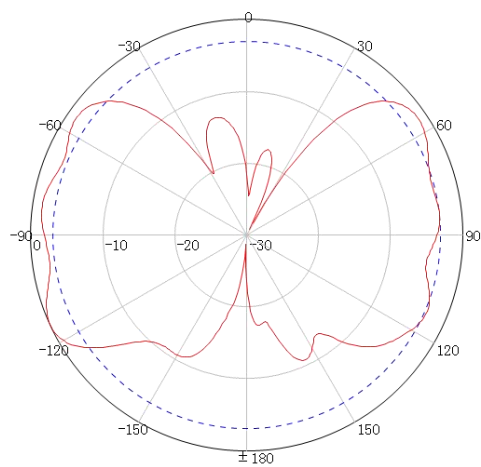
H 面 (1410MHz)



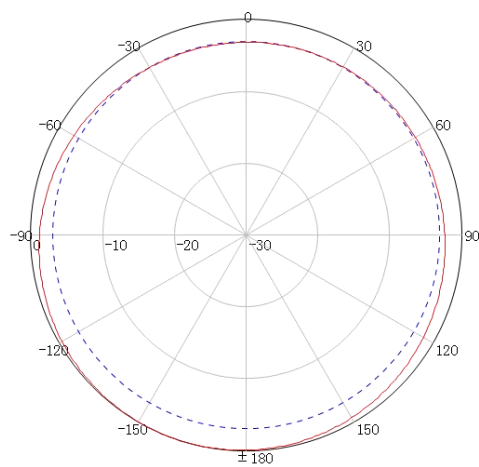
E 面 (1440MHz)



H 面 (1440MHz)

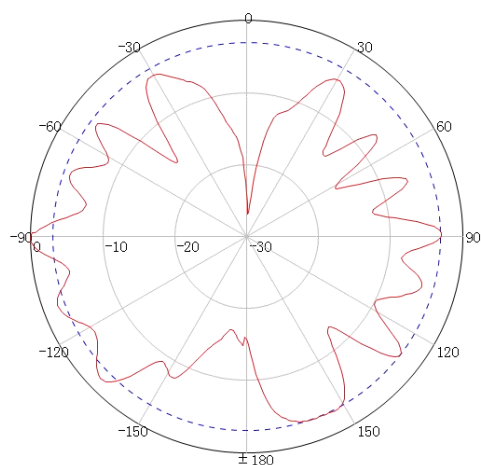


E 面 (1470MHz)

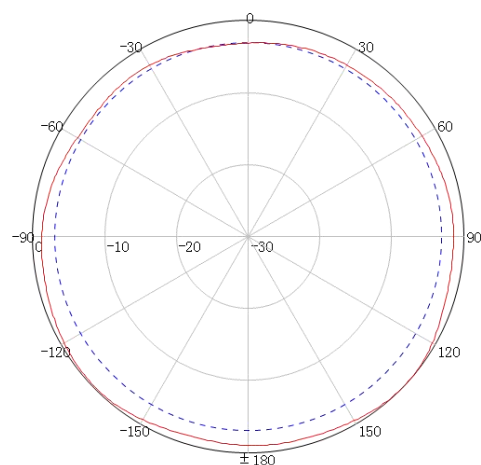


H 面 (1470MHz)

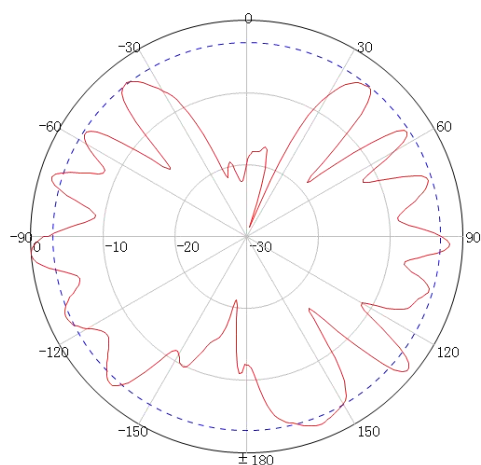
4) 2.4GHz 频段:



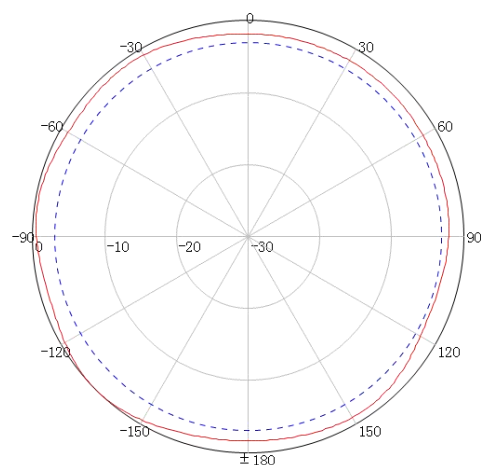
E 面 (2400MHz)



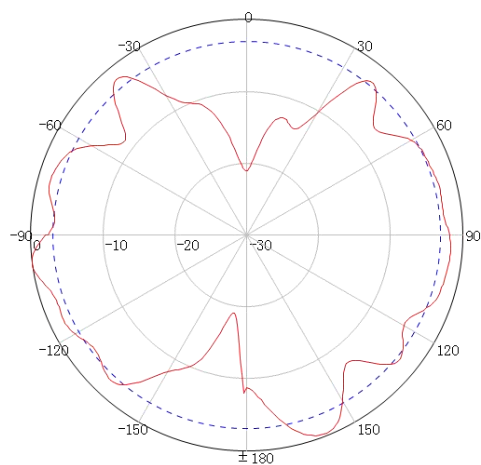
H 面 (2400MHz)



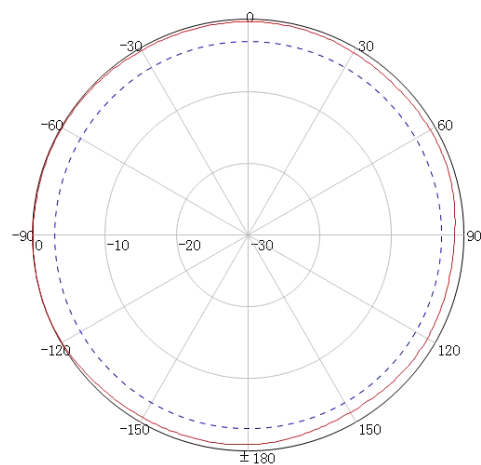
E 面 (2450MHz)



H 面 (2450MHz)

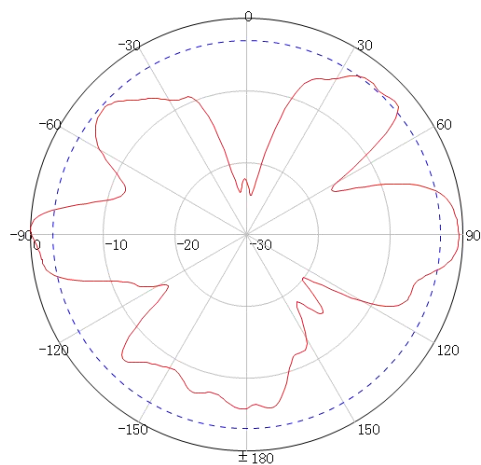


E 面 (2500MHz)

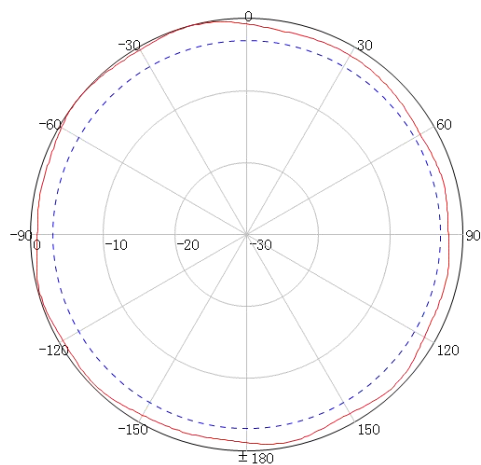


H 面 (2500MHz)

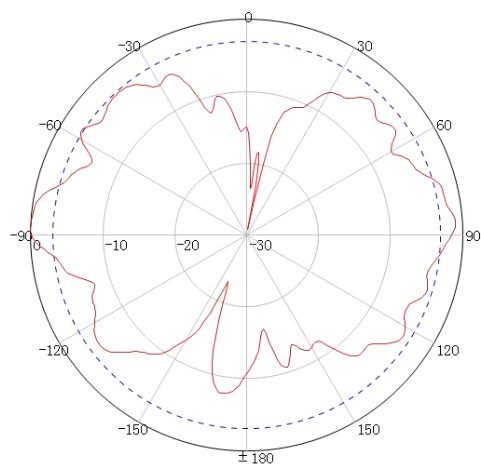
5) 5.8GHz 频段:



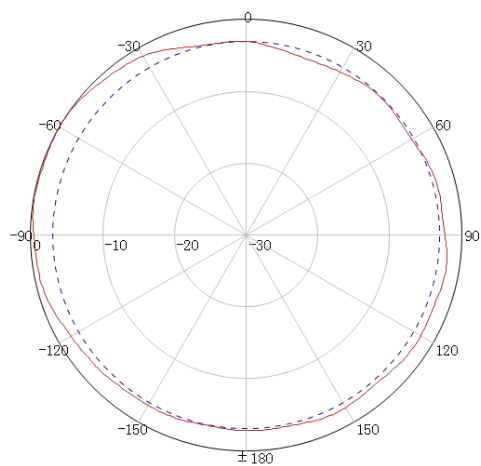
E 面 (4900MHz)



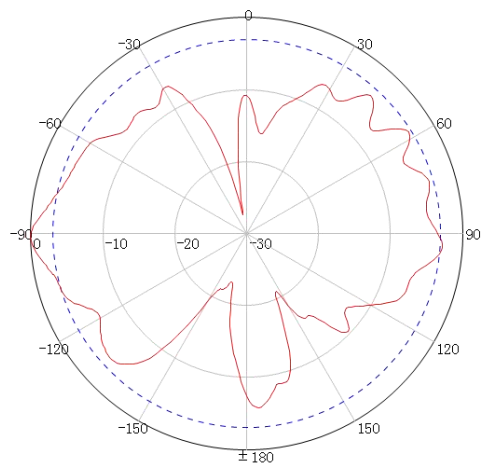
H 面 (4900MHz)



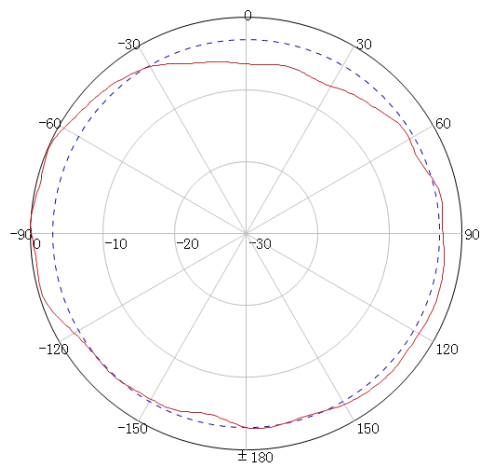
E 面 (5550MHz)



H 面 (5550MHz)

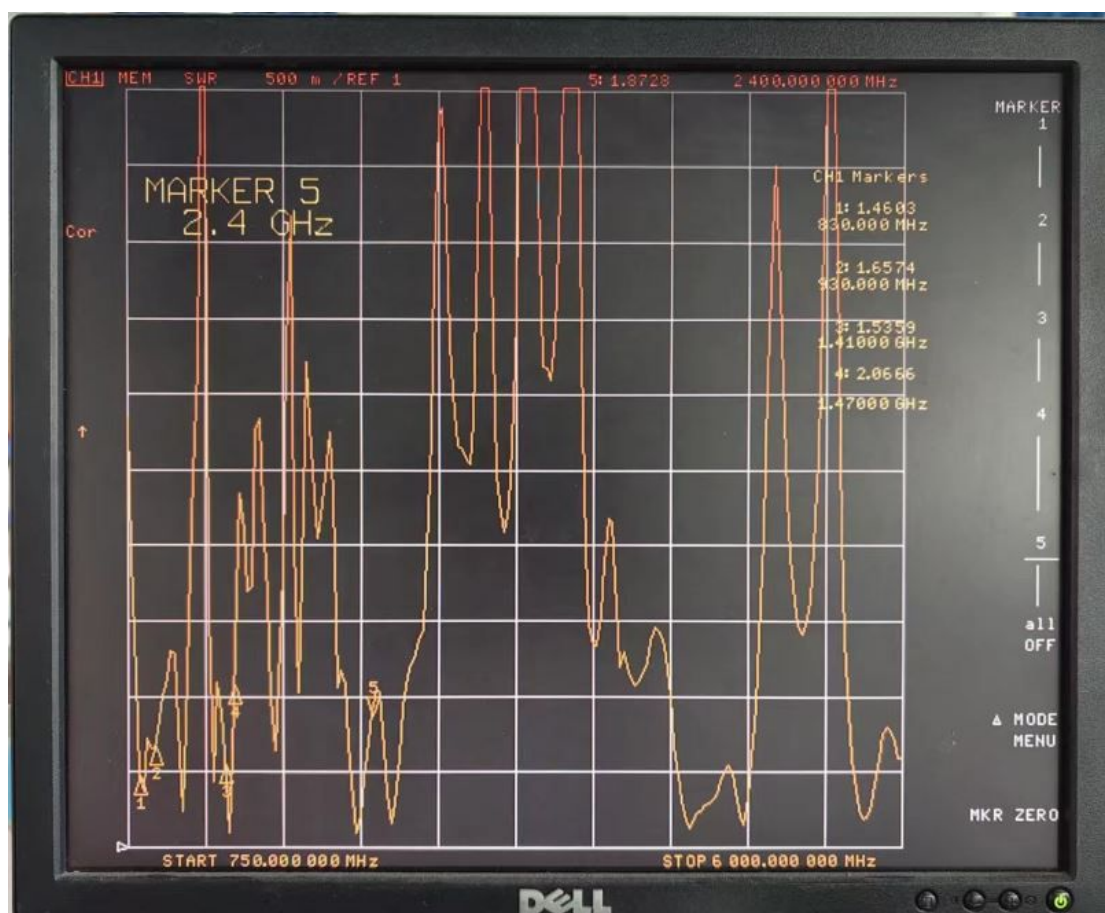


E 面 (5900MHz)

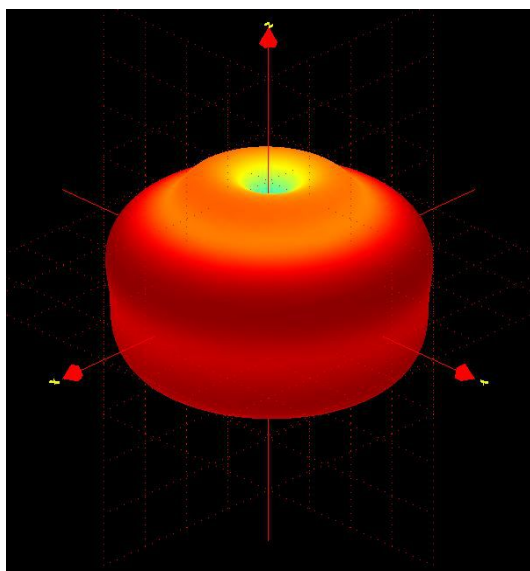


H 面 (5900MHz)

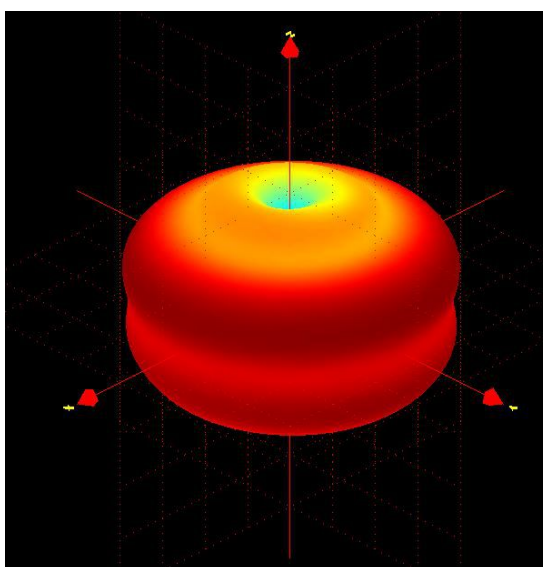
附驻波图



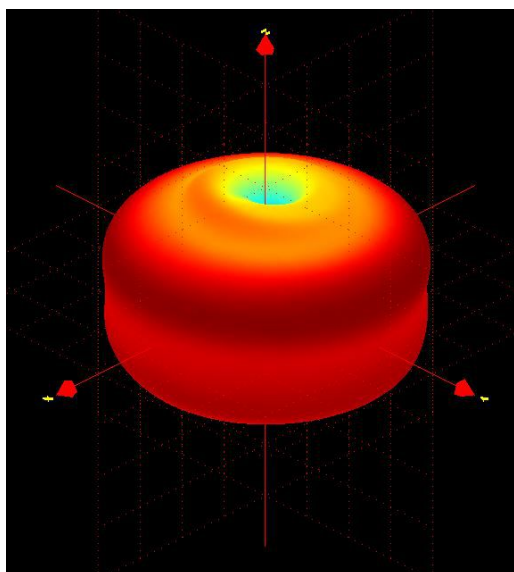
附实测 3D 方向图



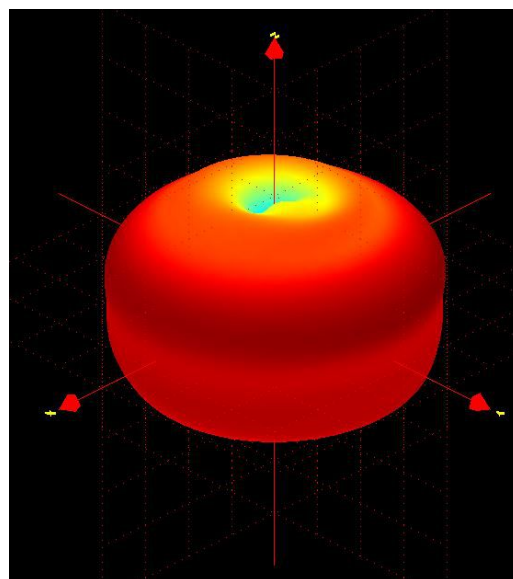
832MHz



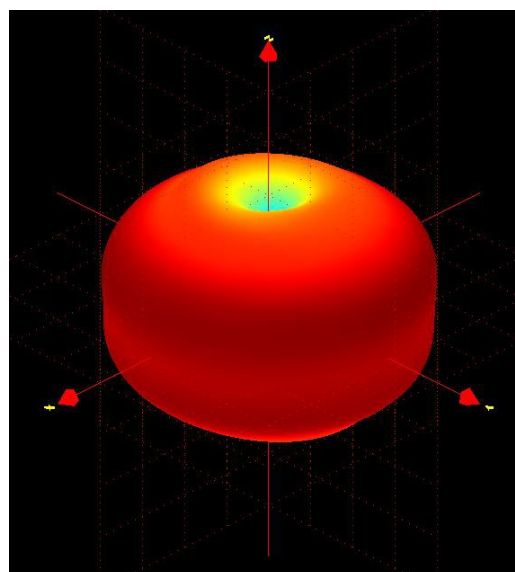
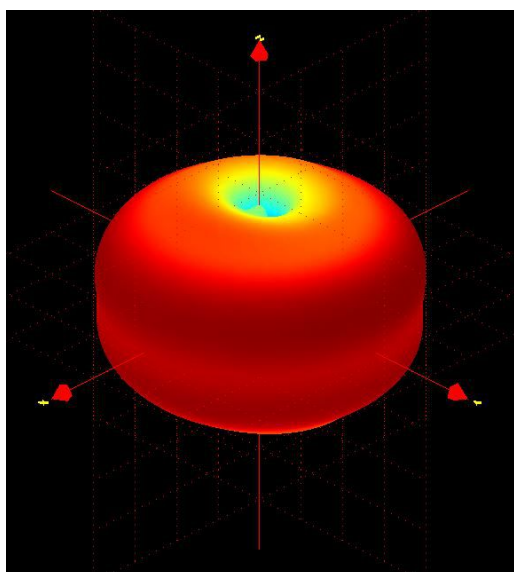
847MHz



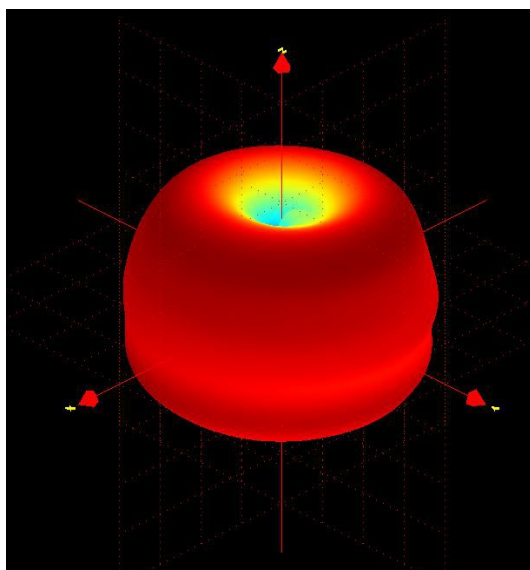
862MHz



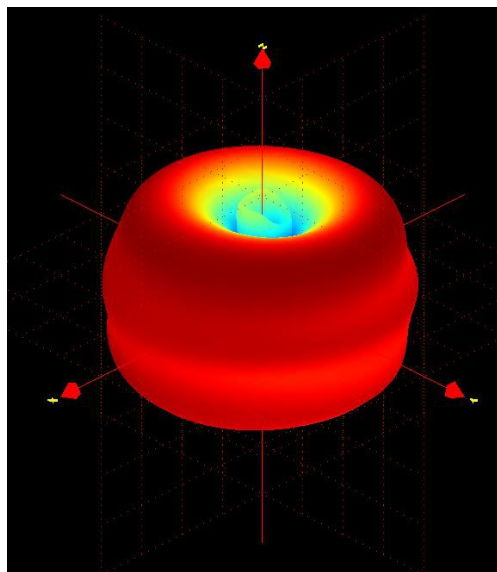
900MHz



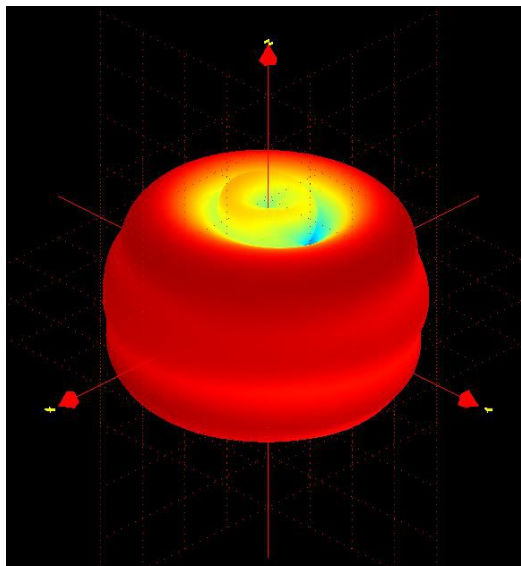
915MHz



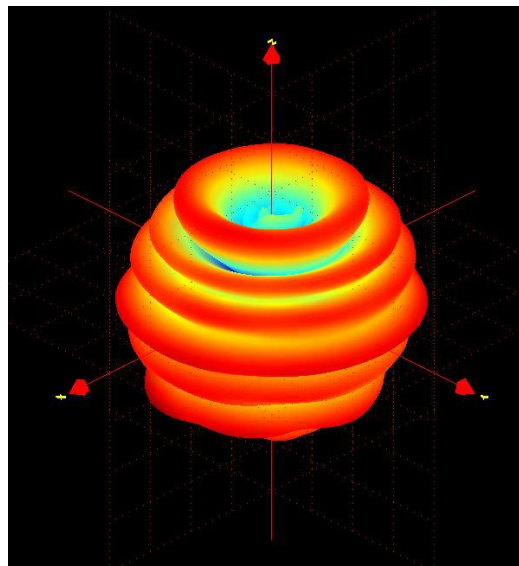
930MHz



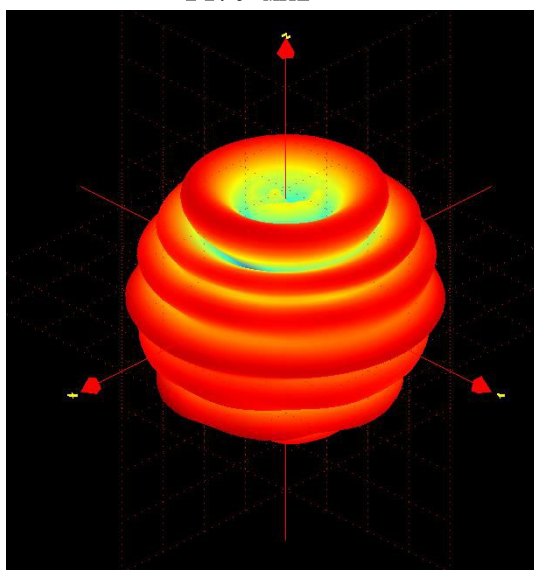
1410MHz



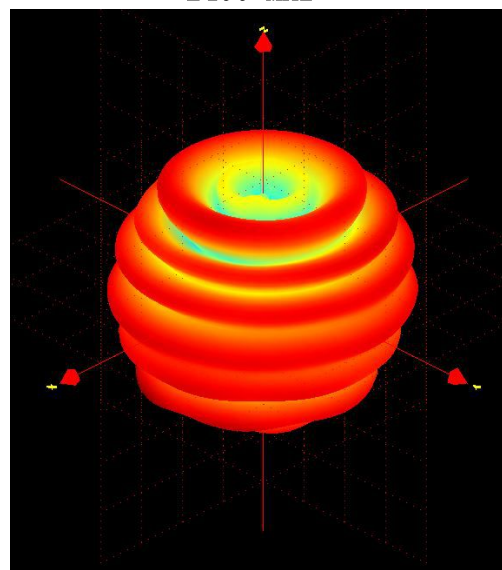
1440MHz



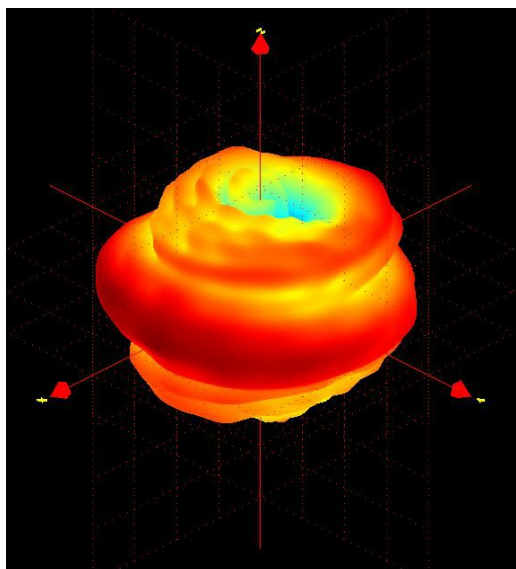
1470 MHz



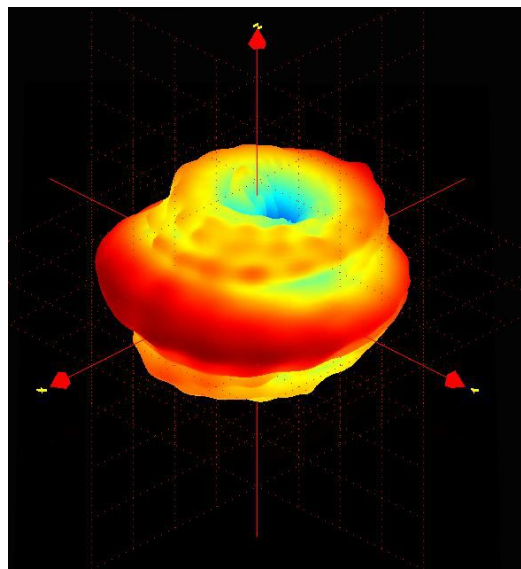
2400 MHz



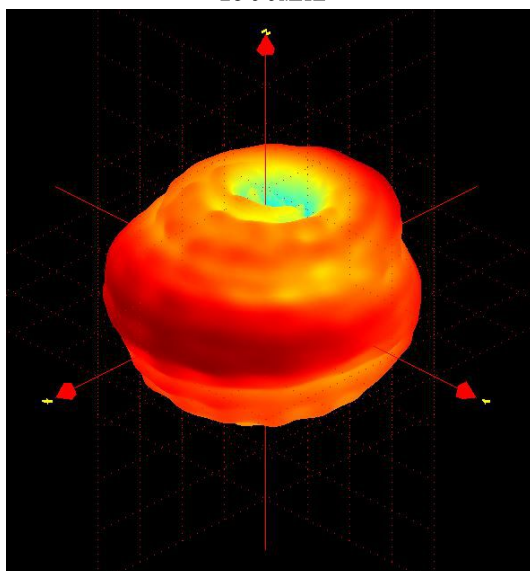
2450 MHz



2500 MHz



4900MHz



5550MHz

5900MHz