



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Xun Rui

Project Name: M9905C

Designer: Li xiongji

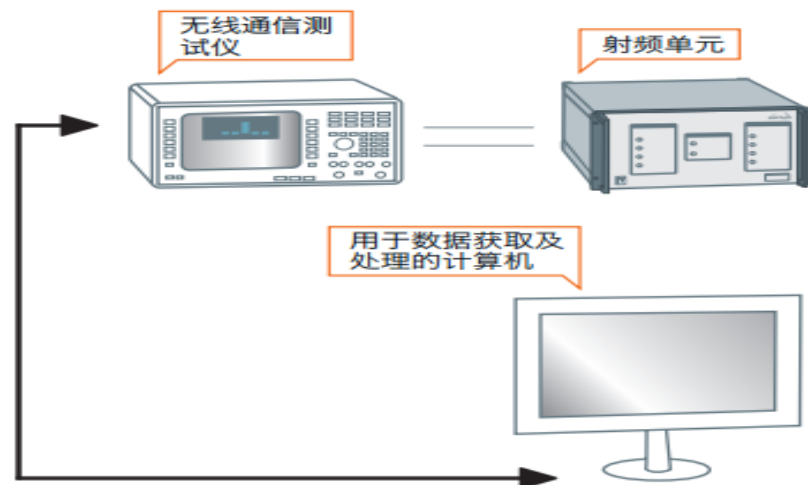
Date: 2023/10/31



The customer name		Xun Rui	Project Name	M9905C
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA:W2/4/5 LTE:B2/B3/B4/B5/B7/B12/B13/B17/B26/B66+GPS/WIFI/BT		
2	Project type	The mobile phone		
3	Antenna space area			
4	Feed point type			
5	The sensitivity			
6	Type of antenna			
7	The length of the PCB board			
8	note	Debugging prototype		
RF		LI xiongji	15347862886	

1、Test system and test equipment

System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



TIS预计测量时间 (一个信道每隔30° 取样)

灵敏度算法 \ 标准	GSM GPRS EDGE	CDMA 1 x RTT 1 x EvDO	WCDMA HSDPA LTE FDD/TDD	Wi-Fi 802.11 a/b/g/n	CTIA 批准方法
RSSI模式+线性化+TIS补偿	8 min		10 min		是
EIS模式+TIS补偿		5 min		5 min	是 ²
快速CDMA		8 min			No
EIRP模式+TIS补偿				10 min	No

1、根据RTC
2、根据协议

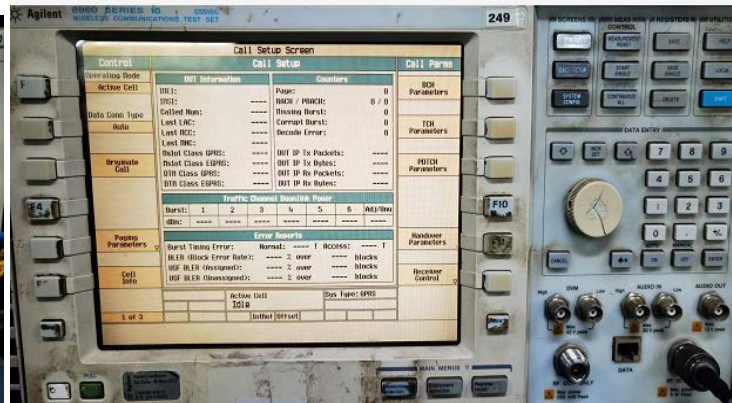


TIS 3D方位切割强度图



TRP 3D方位切割强度图

Test Equipment



Antenna position

WWAN LB antenna



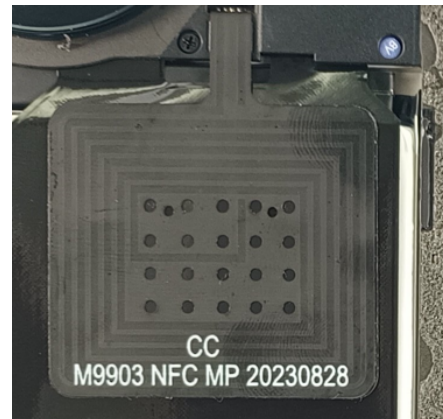
GPS/WIFI/BT antenna



WWAN M&H antenna



NFC antenna

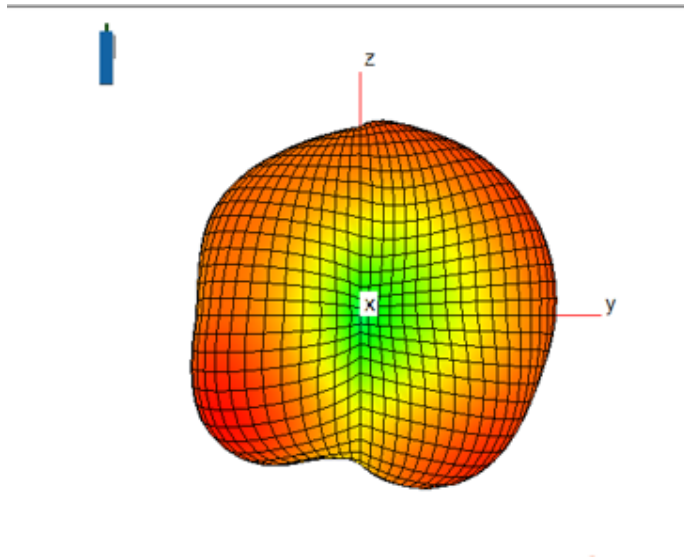


Efficient (2G+3G+4G+WiFi /BT+GPS)

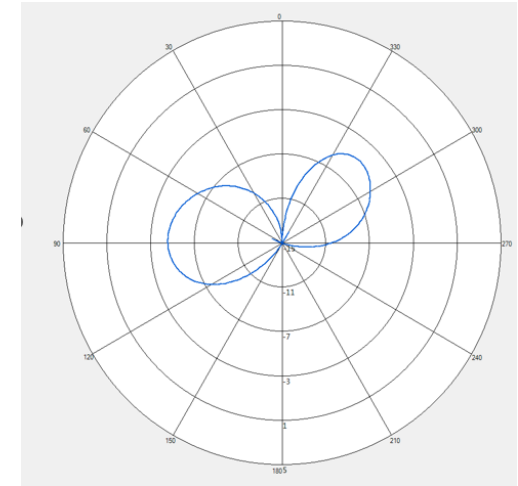
PEAK GAIN			
	Frequency range	Efficiency(%)	Gain(dBi)
GSM850 WB5 LTEB5/26	814~894Mhz	16%	-3.7
GSM 900	880~960Mhz	16.6%	-3.3
GSM B2/3 WB2/4 LTE B2/3/4/66	1710~2170Mhz	26.5%	-1.4
LTE B12/13/17	699~756Mhz	16.8%	-4.3
LTE B7	2500~2690Mhz	37.9%	0.8
5G-WIFI	5000~5800Mhz	31.7%	-0.7
2.4G-WIFI	2400~2500Mhz	34.4%	1.5
BT	2400~2500Mhz	34.4%	1.5
GPS	1575Mhz	36.8%	1.2

Efficient (GSM850 WB5 LTEB5/26)

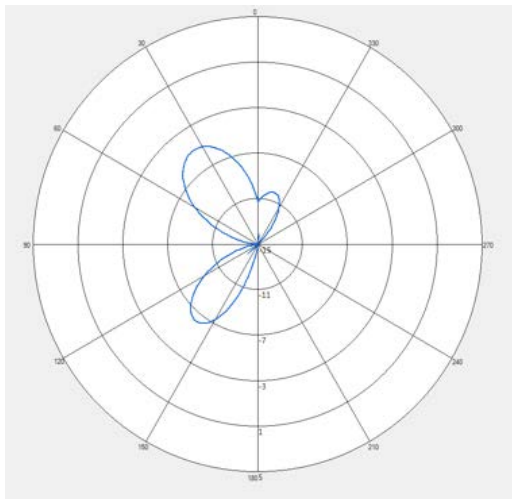
TOTAL



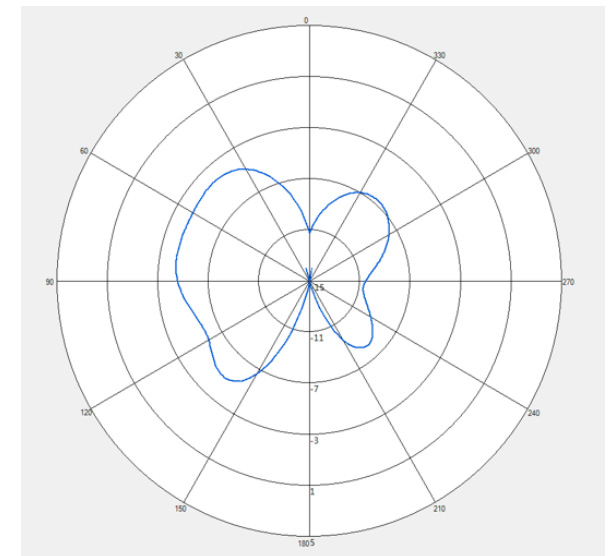
Theta 90



Phi 0

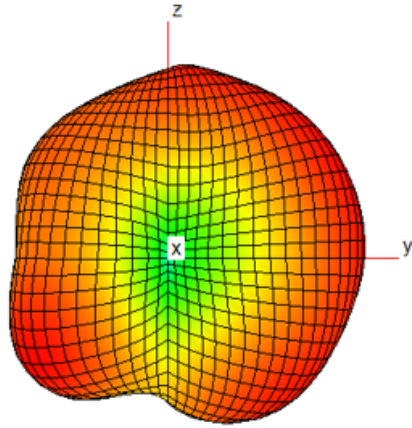


Phi 90

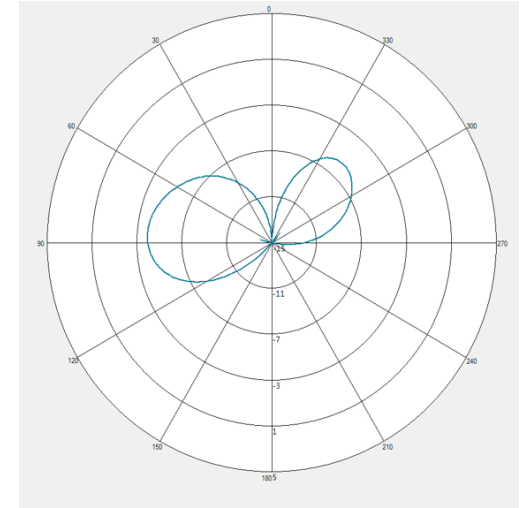


Efficient (GSM 900)

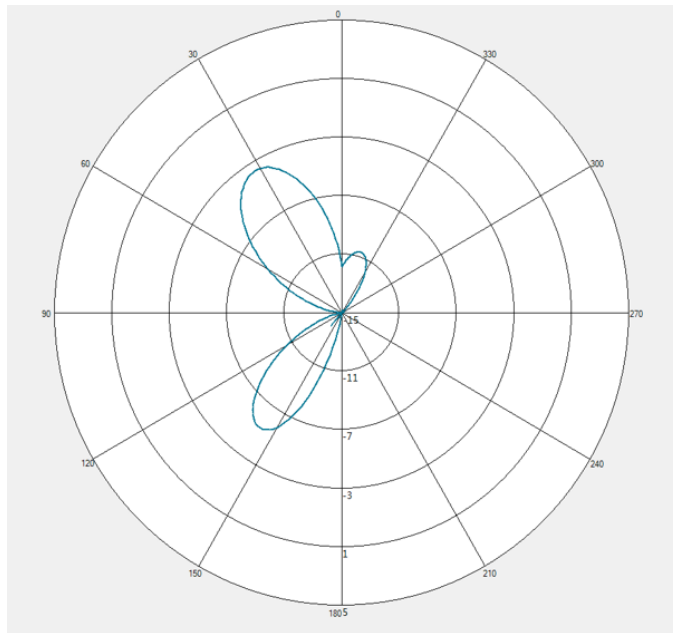
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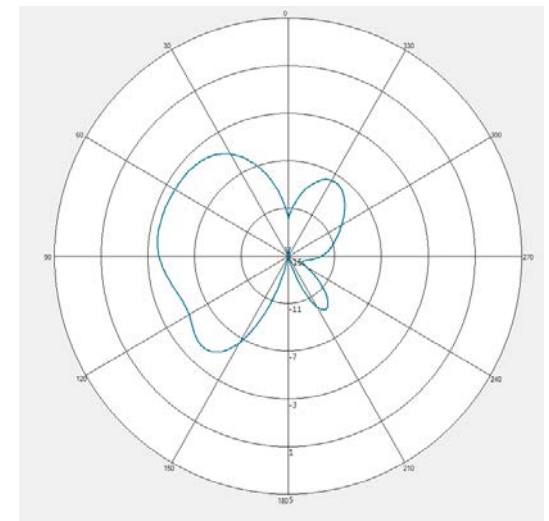
Theta 90



Phi 0

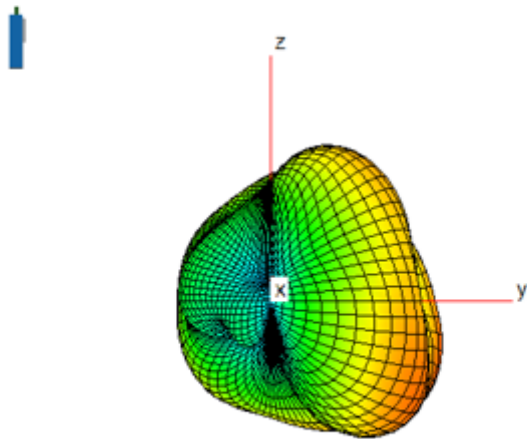


Phi 90

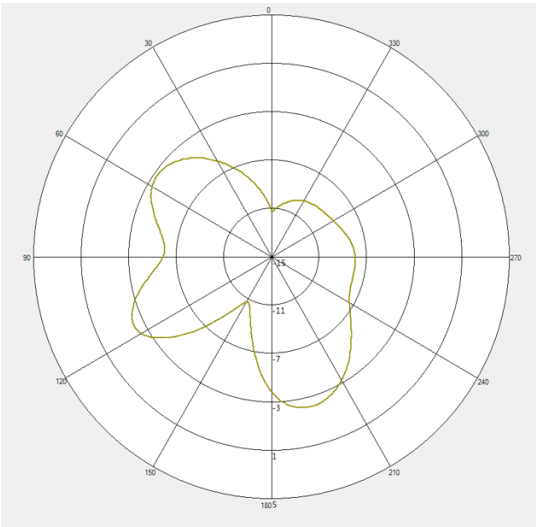


Efficient (GSM B2/3 WB2/4 LTE B2/3/4/66)

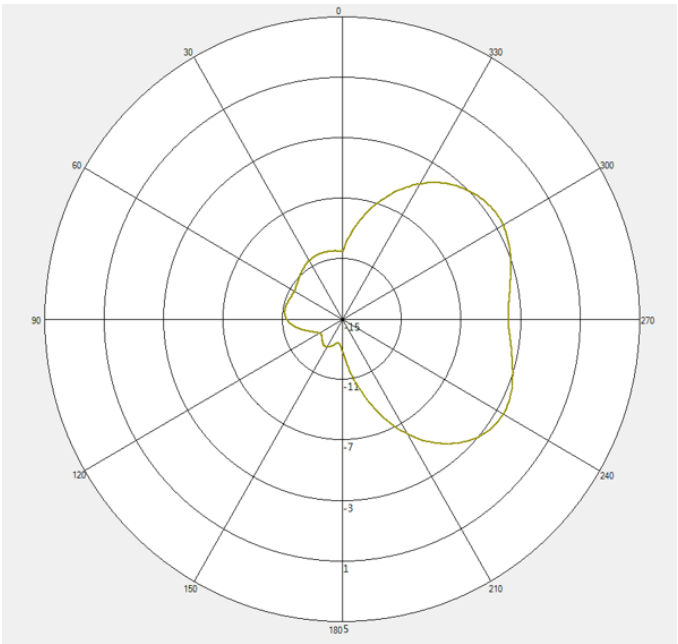
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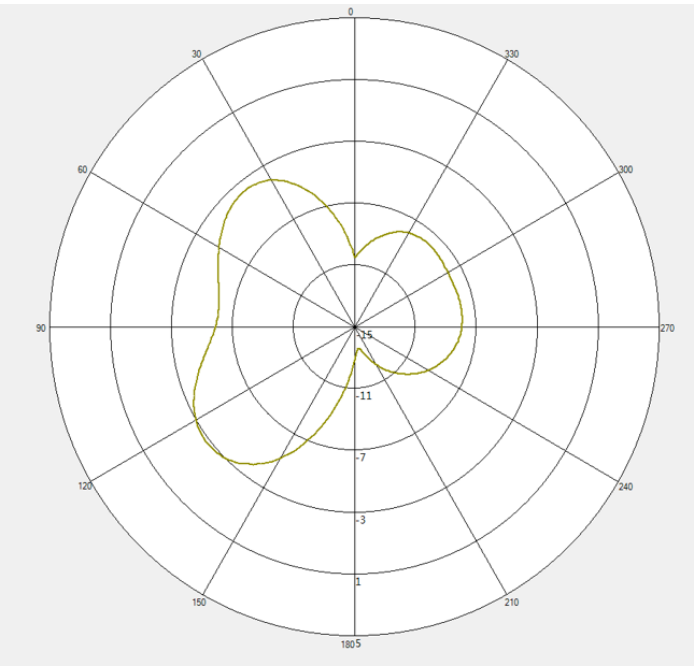
Theta 90



Phi 0

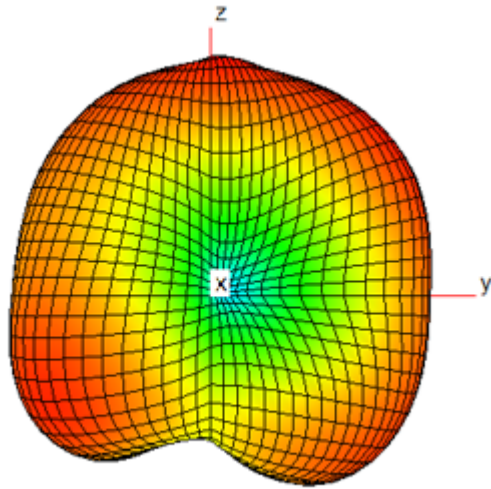


Phi 90

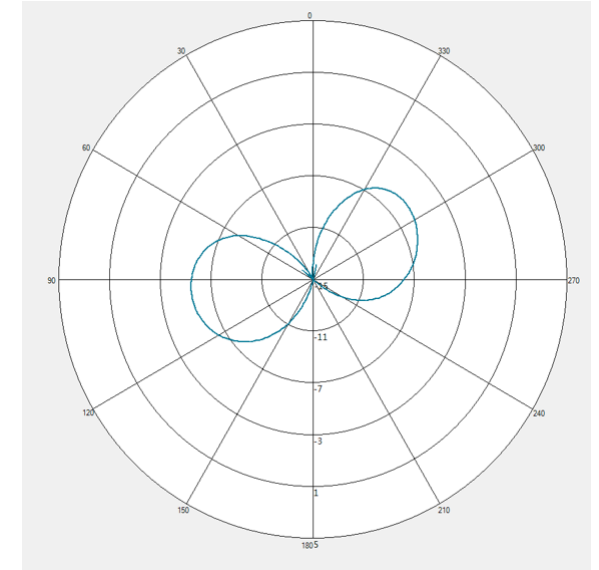


Efficient (LTE B12/13/17)

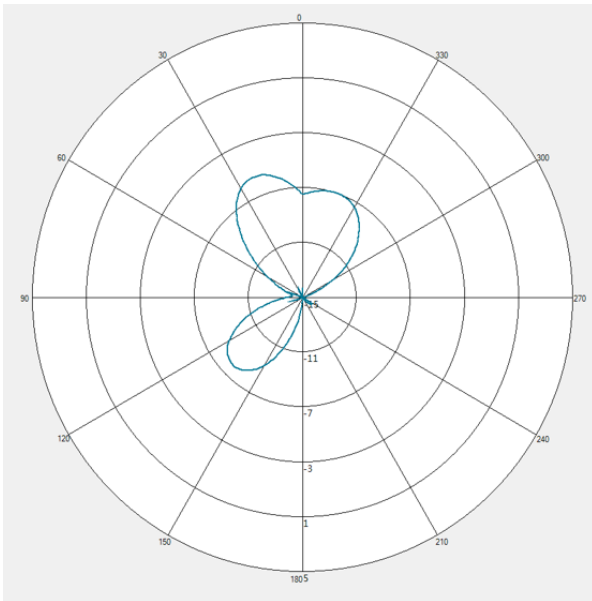
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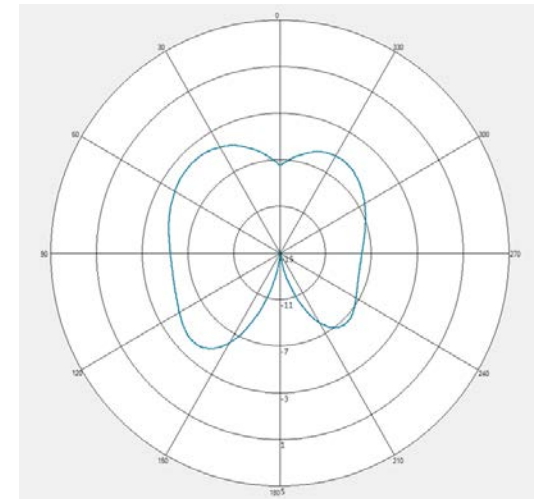
Theta 90



Phi 0

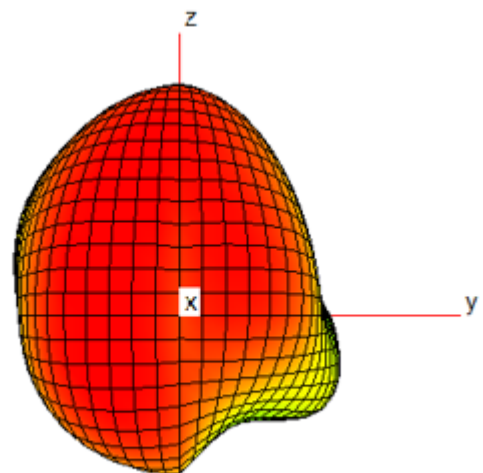


Phi 90

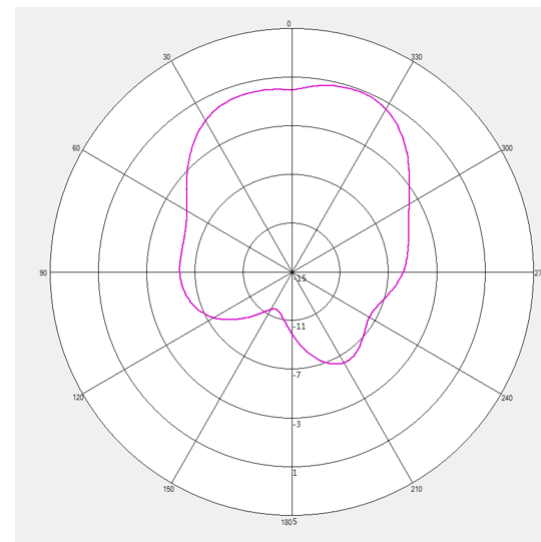


Efficient (LTE B7)

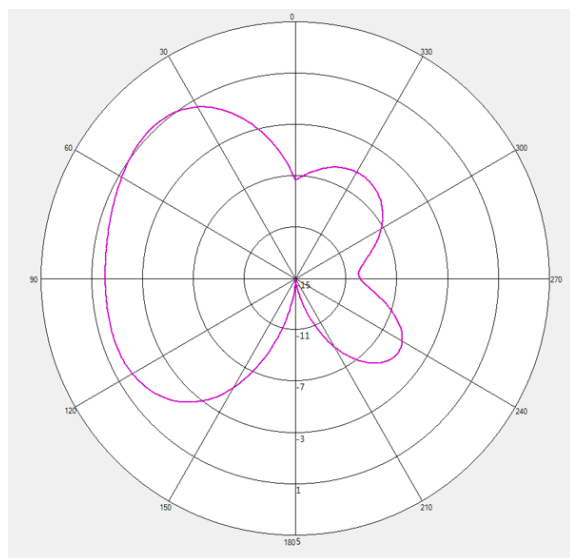
TOTAL



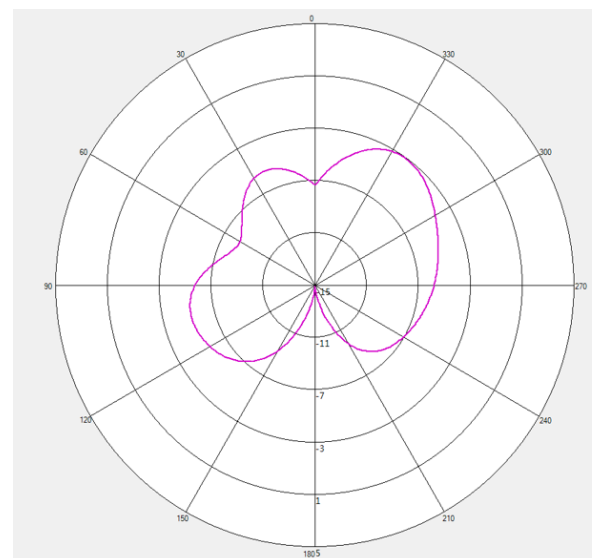
Theta 90



Phi 0

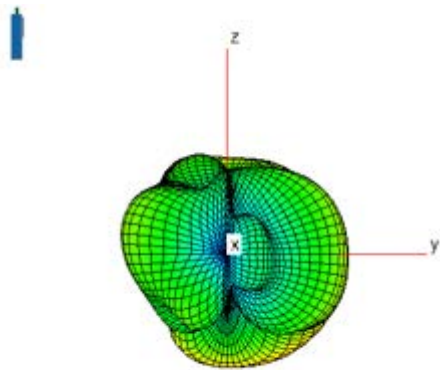


Phi 90

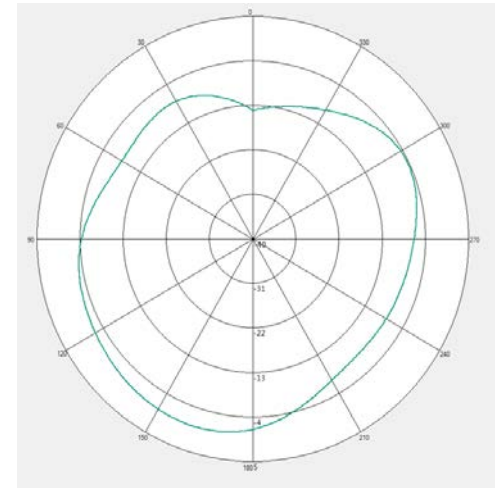


Efficient (2.4GWIFI/BT)

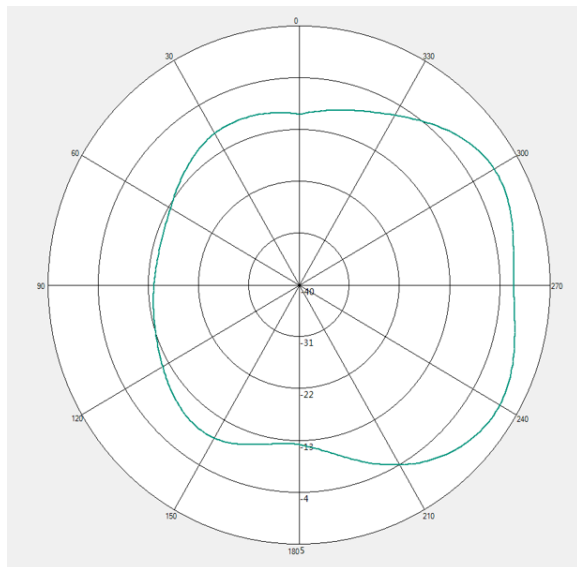
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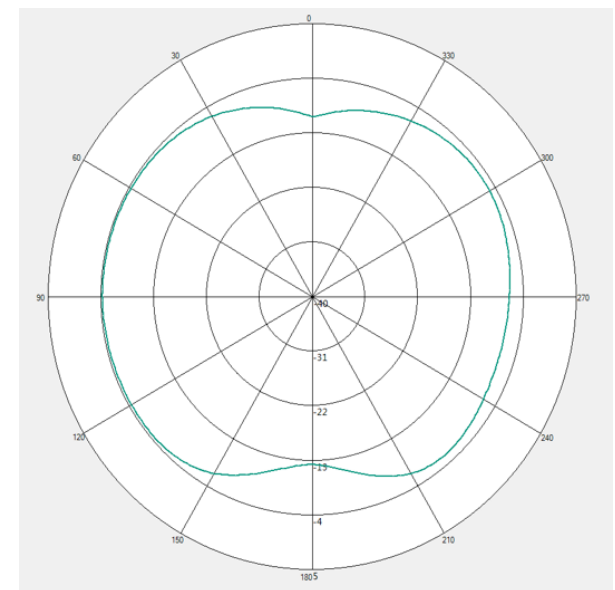
Theta 90



Phi 0

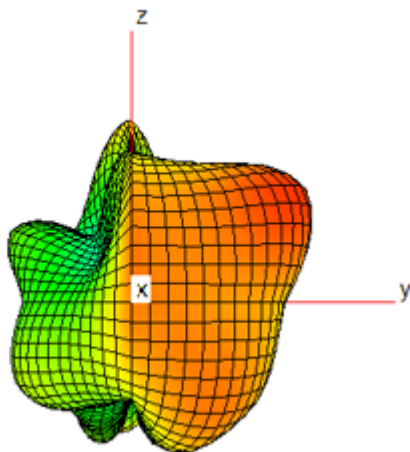


Phi 90

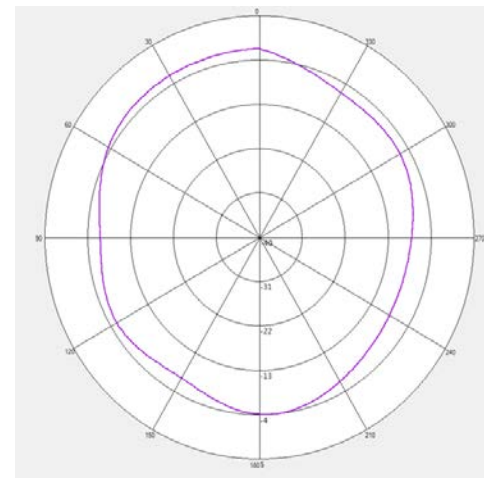


Efficient (5GWIFI 5000~5800MHz)

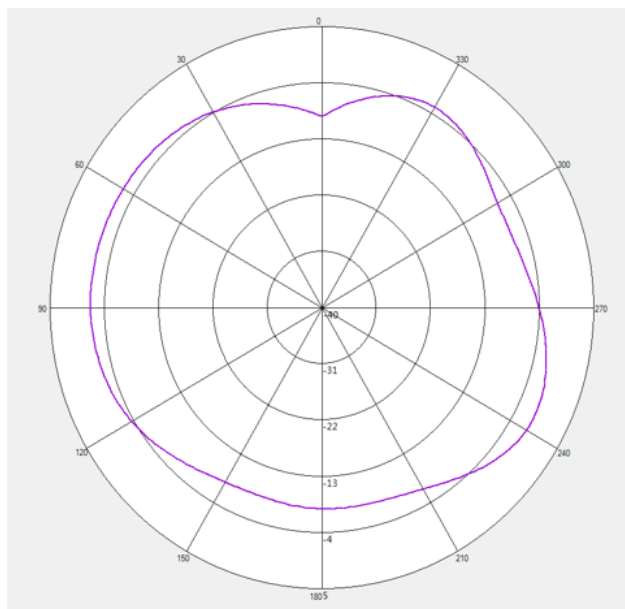
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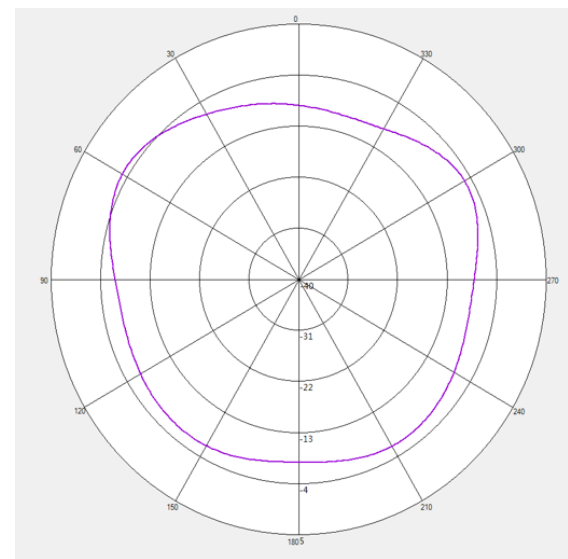
Theta 90



Phi 0

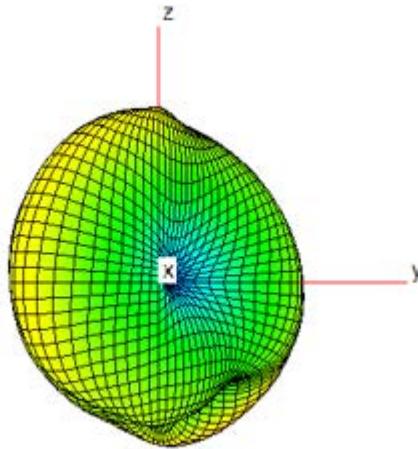


Phi 90

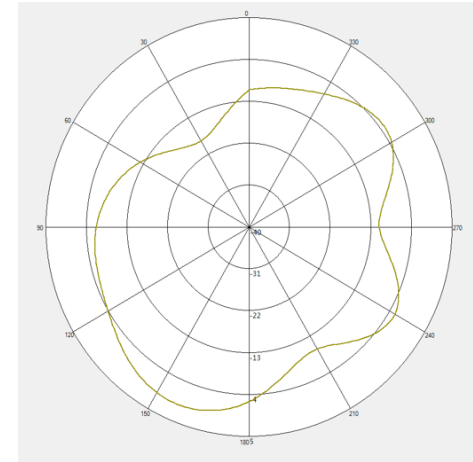


Efficient (GPS 1575.42MHz)

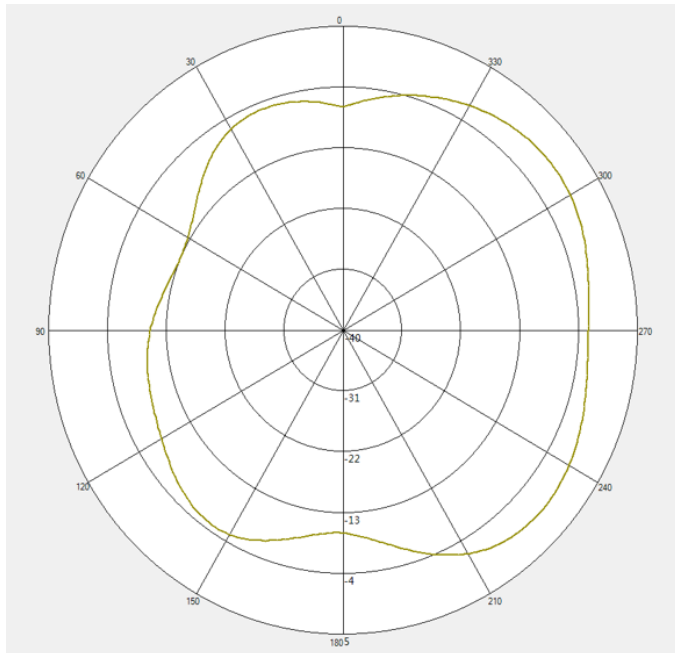
TOTAL



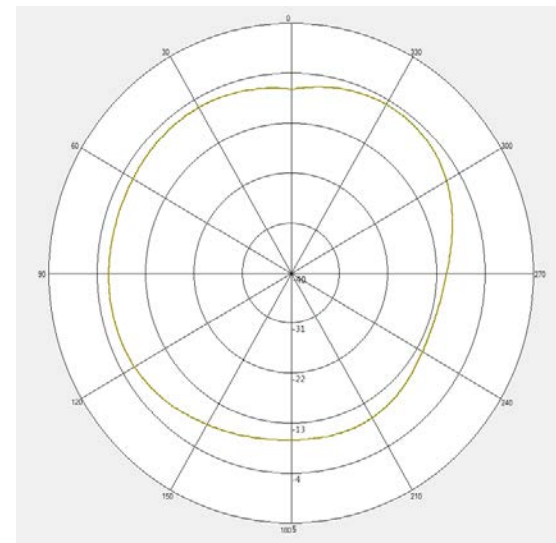
Theta 90



Phi 0



Phi 90



NFC 13.56MHz)



频率 (MHZ)	13.56
阻抗	49.01 Ω