



ShenZhen Huaxinwei communication technology
Co.,Ltd.

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Antenna test report

Customer Name: Xun Rui

Project Name: M300

Designer: Li xiongji

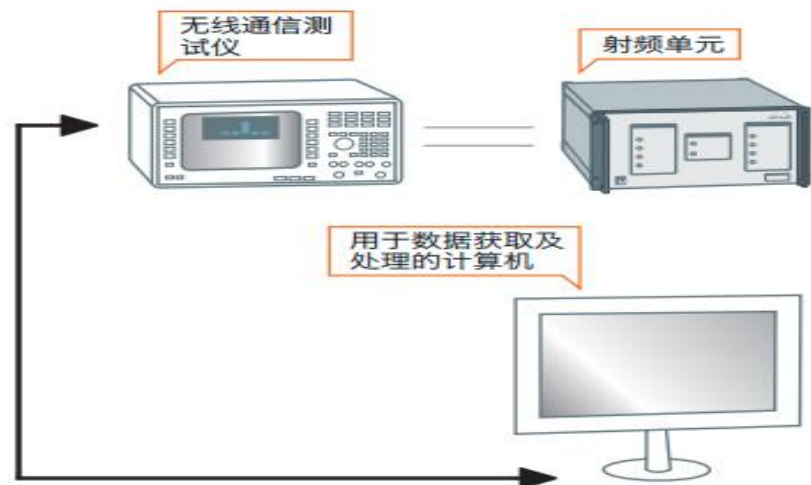
Date: 2024/10/17



The customer name			Project Name	M300
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA:W1/2/5/8 LTE:B1/B2/B3/B4/B5/B7/B8/B20/B40/B41+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

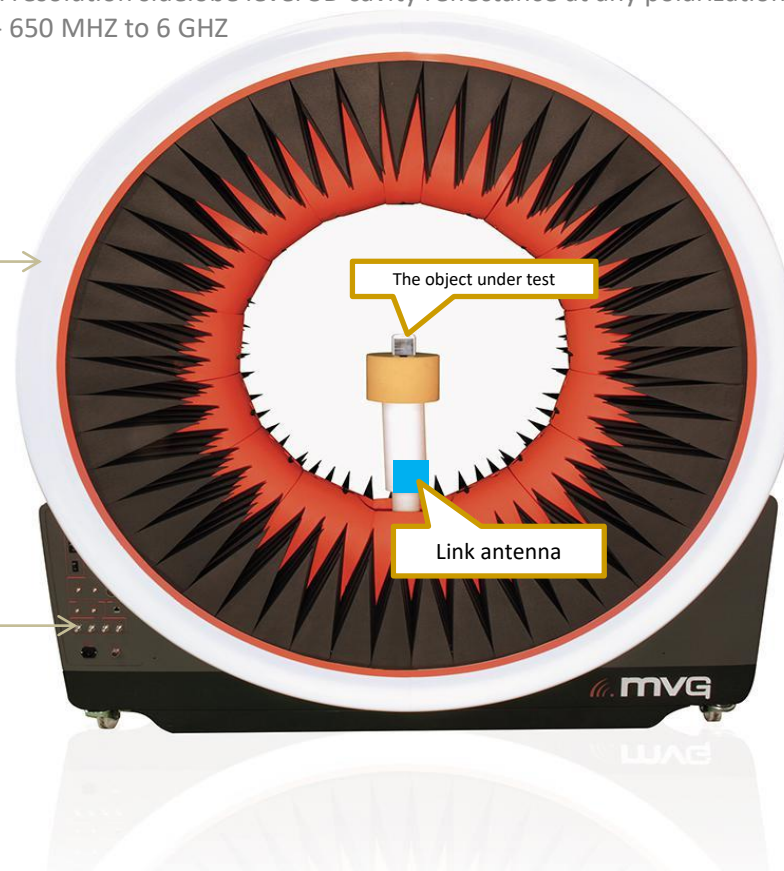
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



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

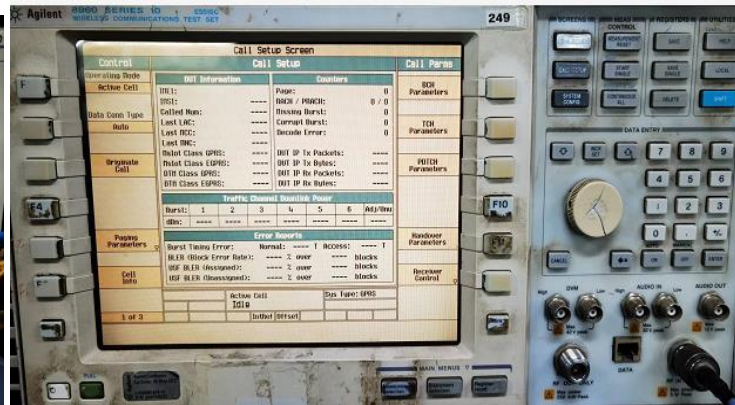


TIS 3D方位切割强度图



TRP 3D方位切割强度图

Test Equipment



Antenna position

WWAN LB antenna



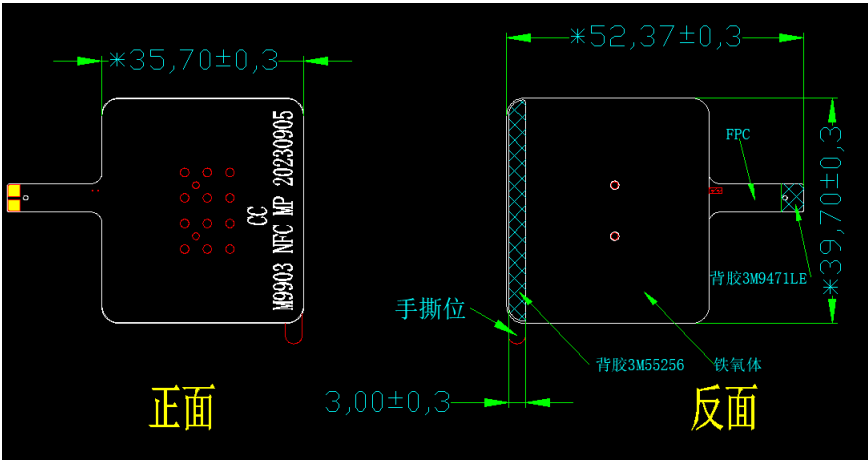
GPS/WIFI/BT antenna



WWAN M&H antenna



NFC Antenna

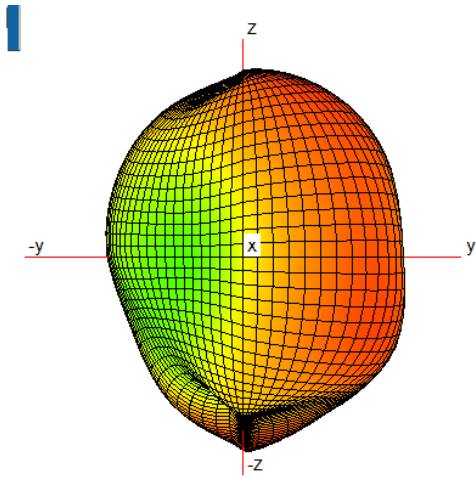


Efficient (2G+3G+4G+WiFi /BT+GPS)

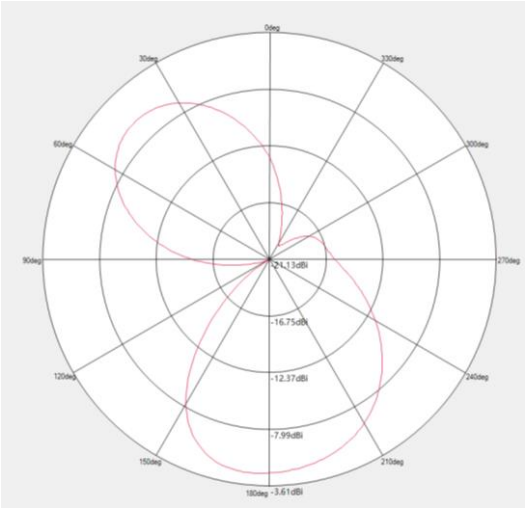
PEAK GAIN			
	Frequency range	Efficiency(%)	Gain(dBi)
GSM 850 W B5 LTE B5/20	791~894Mhz	17.0%	-3.6
GSM 900 W B8 LTE B8	880~960Mhz	19.4%	-2.1
GSM B2/3 W B1/2 LTE B1/2/3/4	1710~2170Mhz	29.8%	-1.0
LTE B7/40/41	2300~2690Mhz	38.0%	0.5
2.4G-WIFI	2400~2500Mhz	40.7%	1.7
5G-WIFI	5000~5800Mhz	30.2%	-0.9
BT	2400~2500Mhz	40.7%	1.7
GPS	1575Mhz	36.2%	0.5
NFC	13.56MHz	/	/

We, DAMASCO TRADING LLC, states that All measurements were performed radiated for NFC and therefore additional antenna gain documentation is not required.

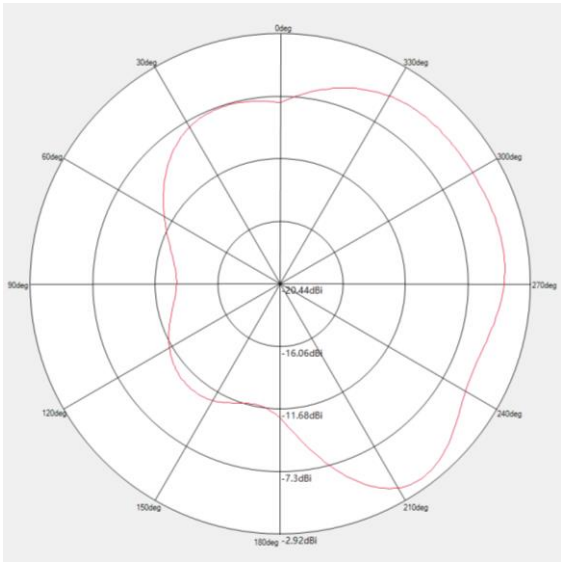
TOTAL



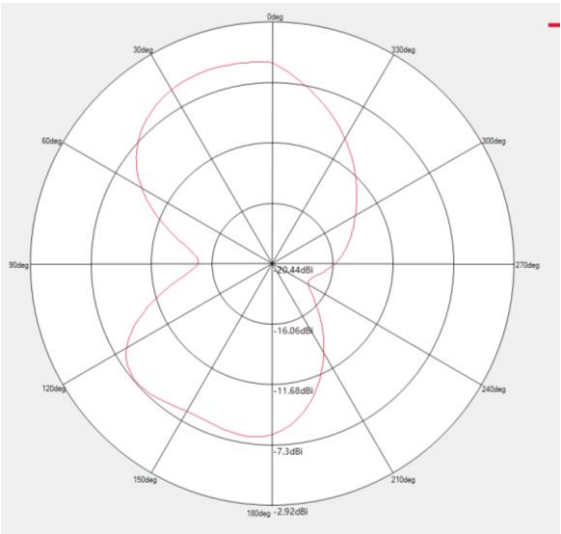
Theta 90



Phi 0

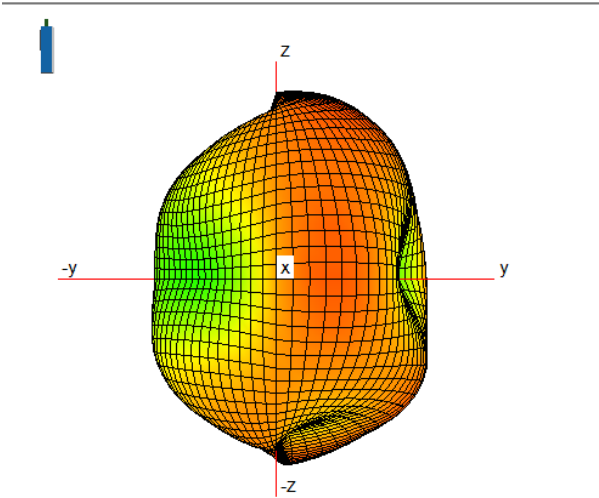


Phi 90

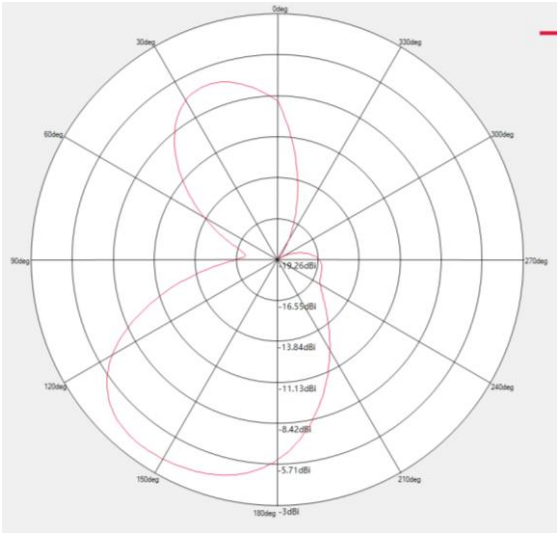


Efficient (GSM 900 W B8 LTE B8)

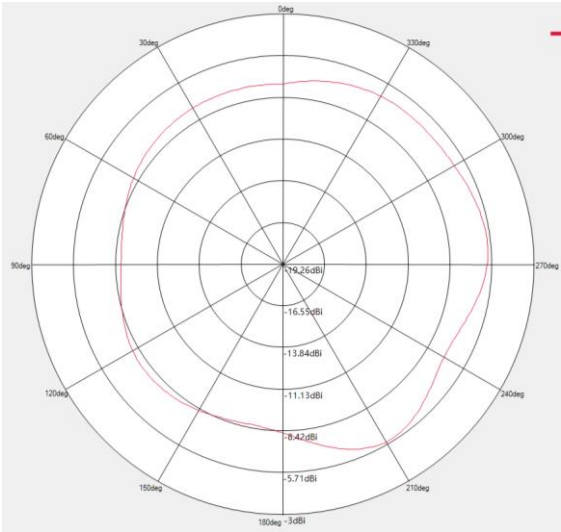
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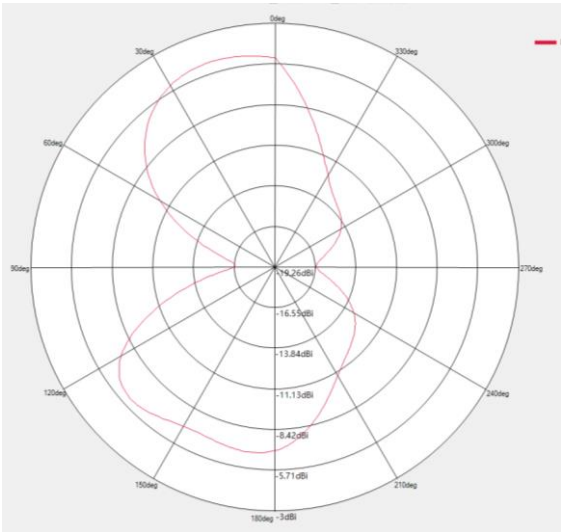
Theta 90



Phi 0

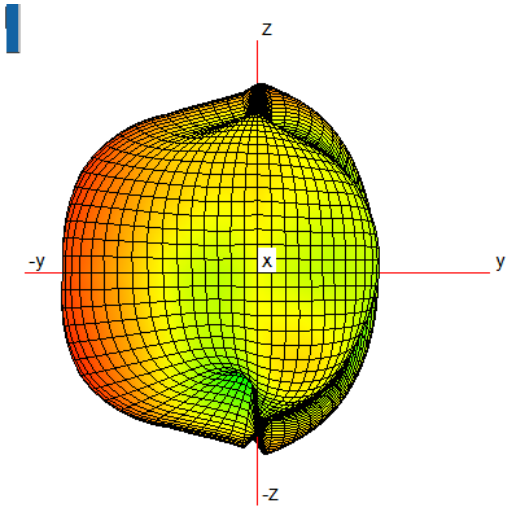


Phi 90

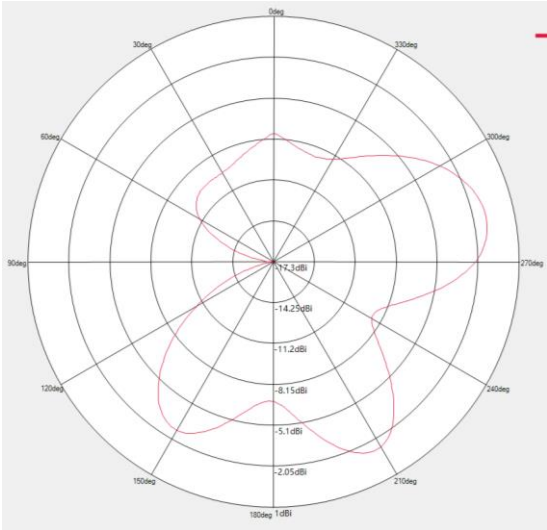


Efficient (GSM B2/3 W B1/2 LTE B1/2/3/4)

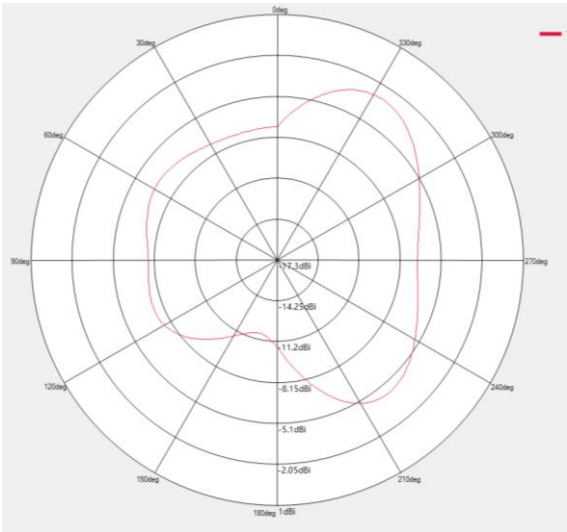
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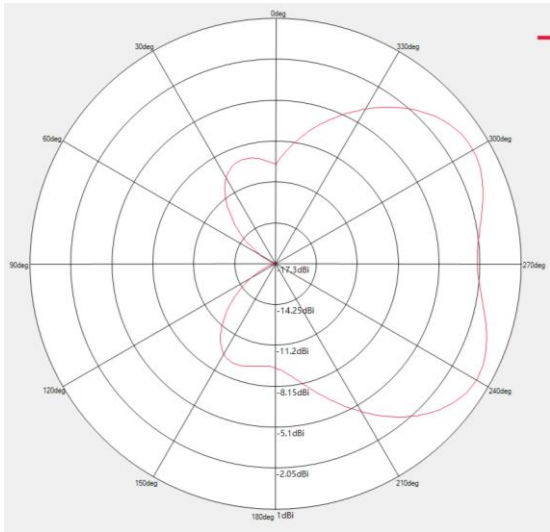
Theta 90



Phi 0

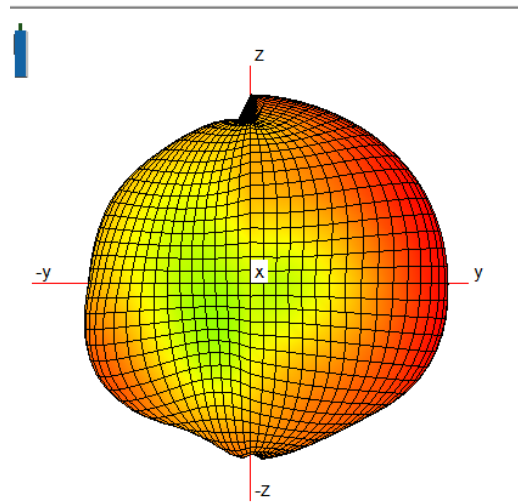


Phi 90

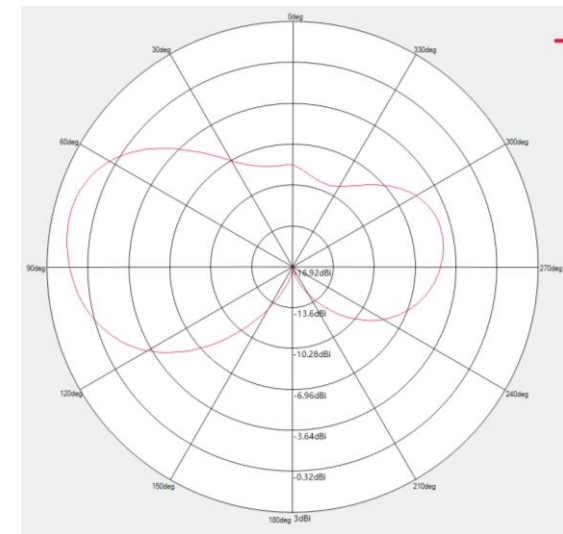


Efficient (LTE B7/40/41)

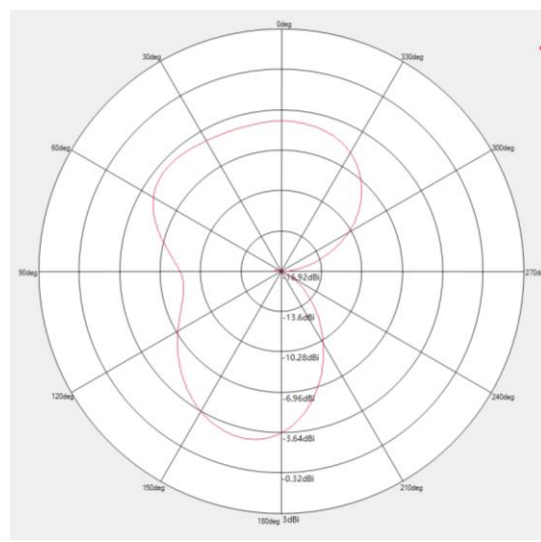
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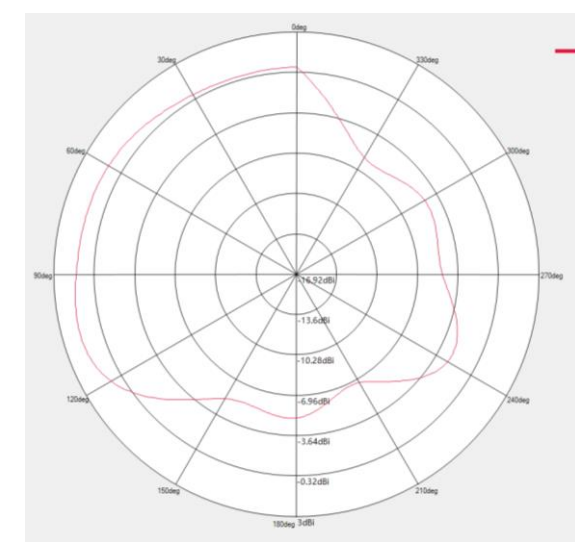
Theta 90



Phi 0

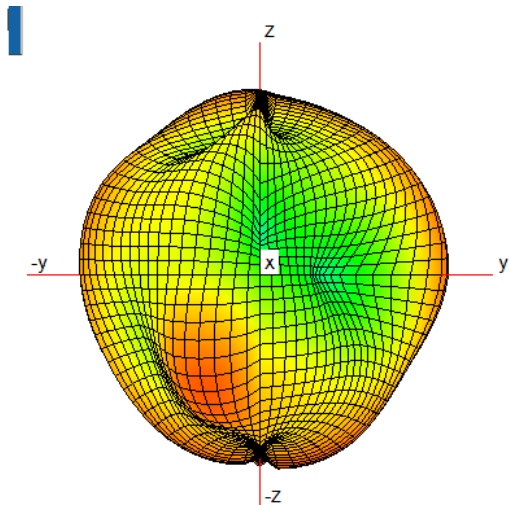


Phi 90

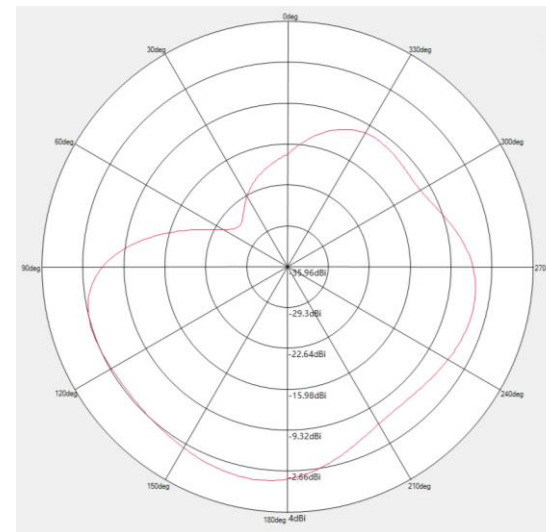


Efficient (2.4GWIFI/BT)

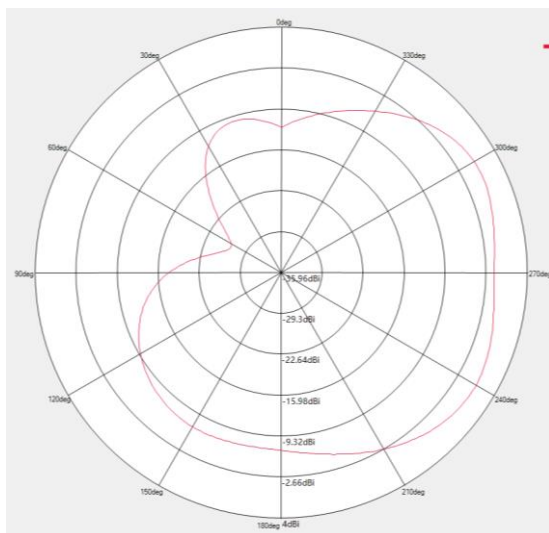
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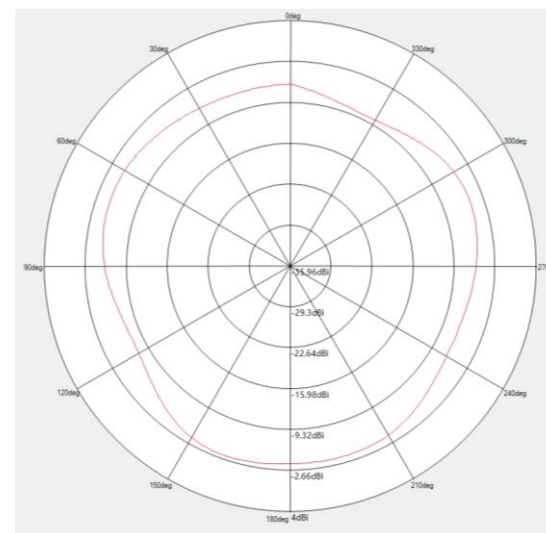
Theta 90



Phi 0

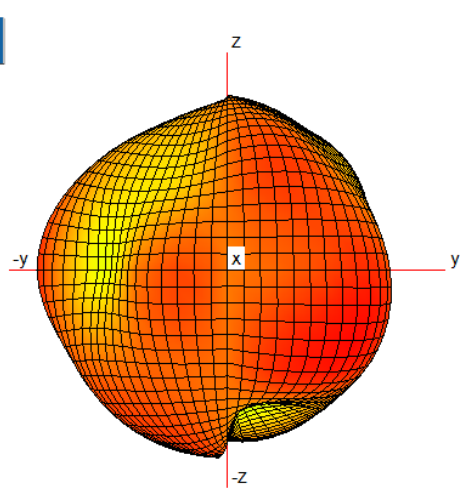


Phi 90

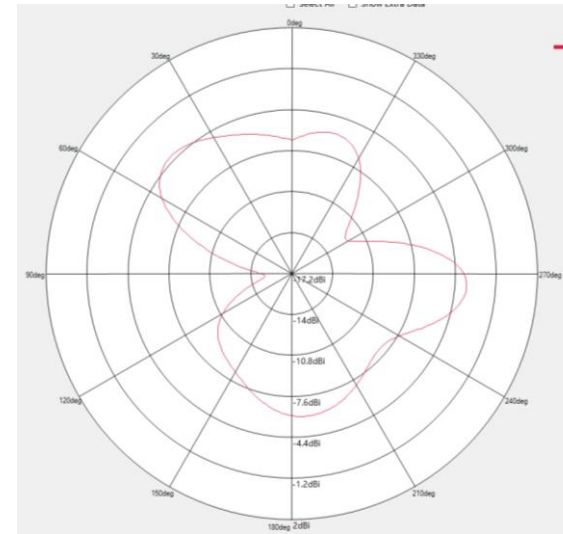


Efficient (5GWIFI 5000~5800MHz)

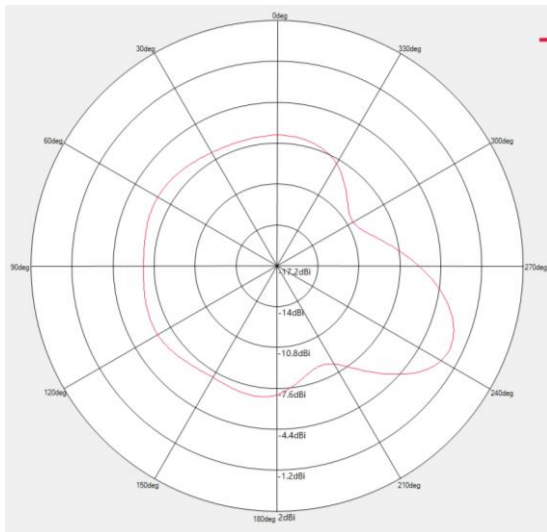
TOTAL



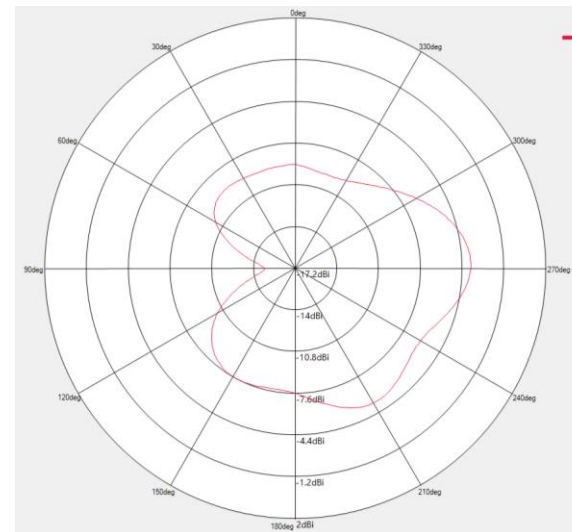
Theta 90



Phi 0

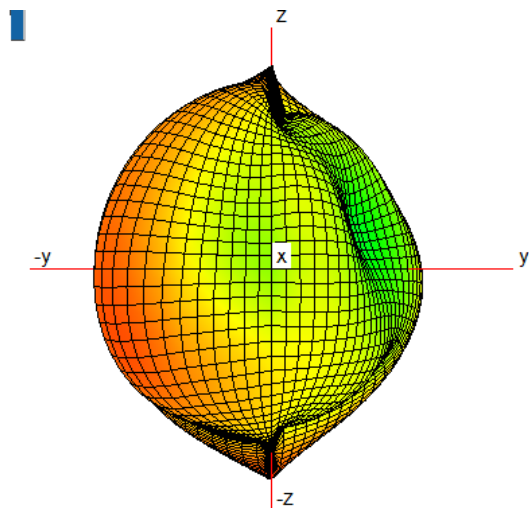


Phi 90

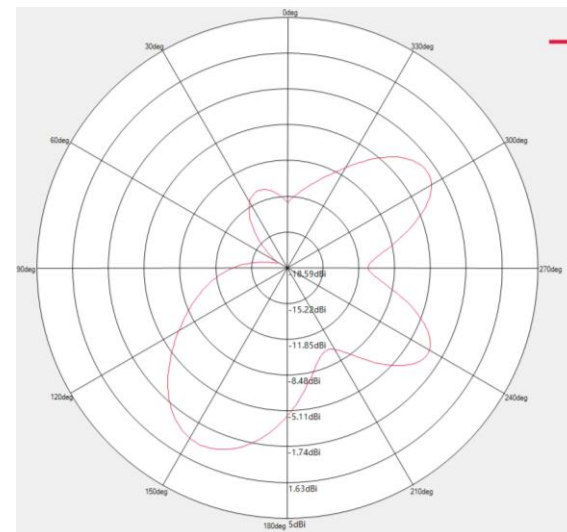


Efficient (GPS 1575.42MHz)

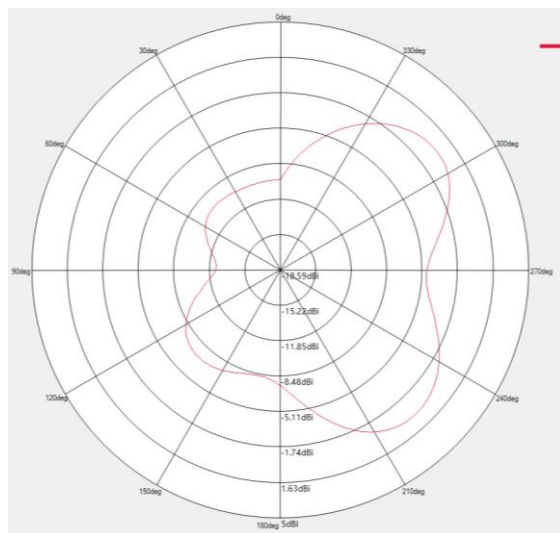
TOTAL



Theta 90



Phi 0



Phi 90

