

Antenna test report

Customer Name:

Project Name: M412H

Designer: Li xiongji

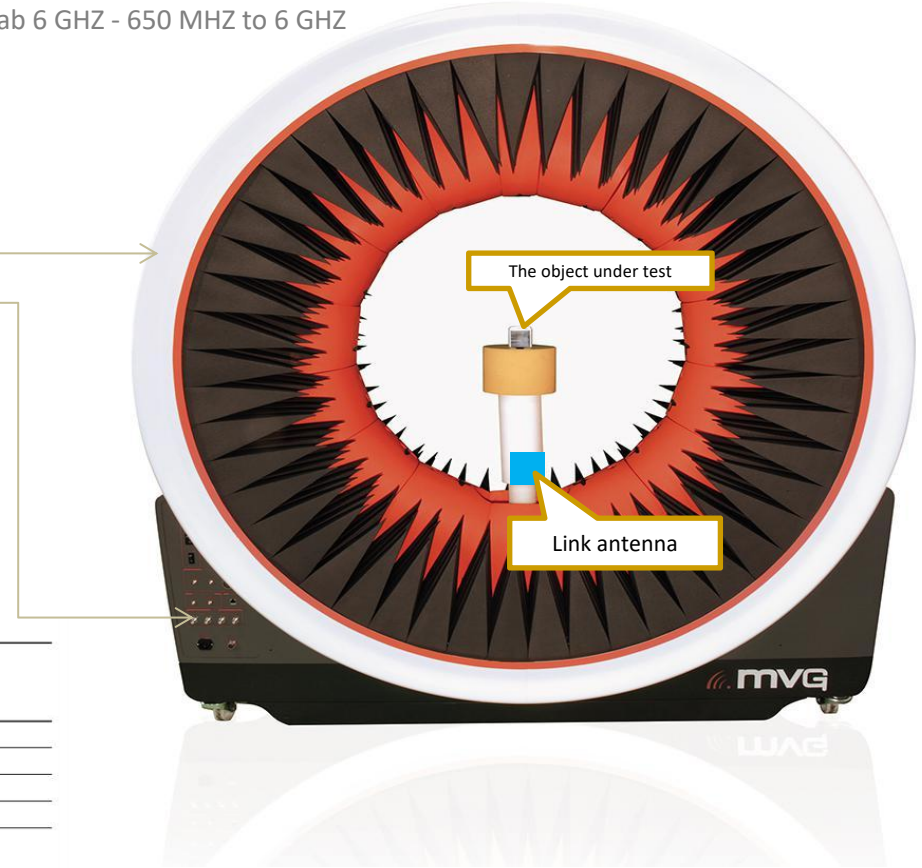
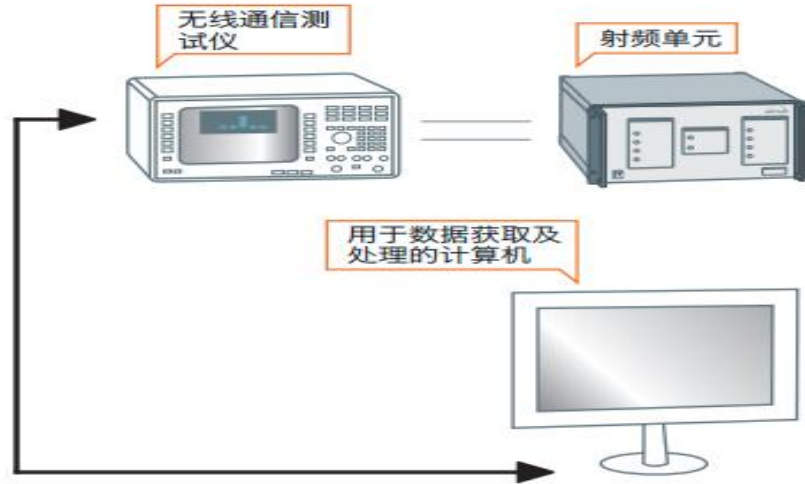
Date: 2024/05/06



The customer name			Project Name	M412H
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA:W1/2/4/5/8 LTE:B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B26/B28AB/B38/B40/B41/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

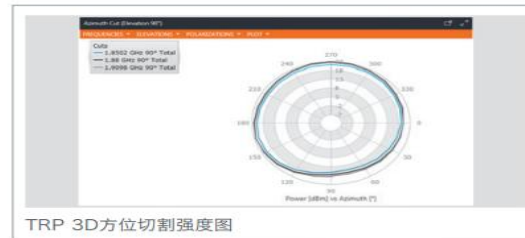
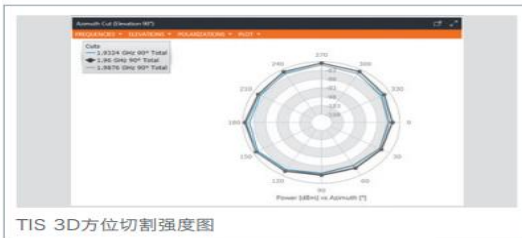
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHz - 650 MHz to 6 GHz



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

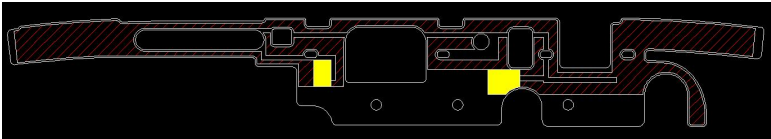


Test Equipment

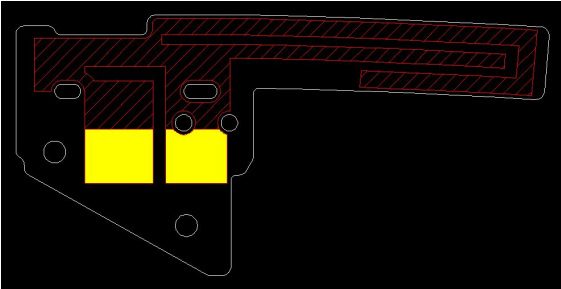


Antenna position

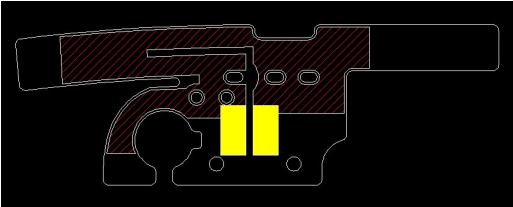
WWAN LB antenna



GPS/WIFI/BT antenna



WWAN M&H antenna

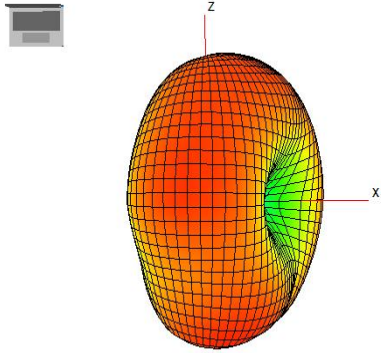


Efficient (2G+3G+4G+WiFi /BT+GPS)

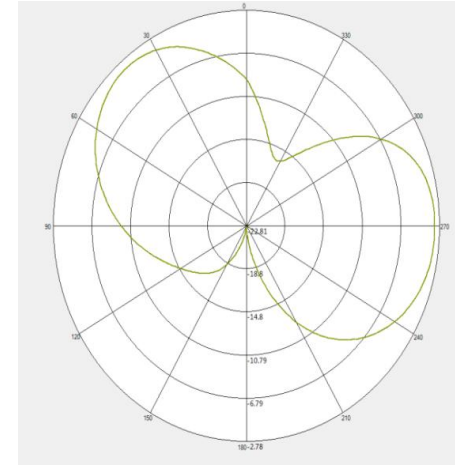
PEAK GAIN			
	Frequency range	Efficiency (%)	Gain(dBi)
GSM850/W850/LTEB 5/18/19/20/26	791~894Mhz	21.68%	-2.8
GSM 900/W 900/LTE B8	880~960Mhz	22.85%	-1.6
GSM 1800 W4 LTE B3/4/66	1710~2170Mhz	38.88%	0.9
LTE B12/17/28AB	704~804Mhz	22.56%	-3.7
LTE B7/38/41	2480~2690Mhz	37.63%	1.8
GSM1900 W1/2 LTE B1/2	1890~2170Mhz	50.25%	1.2
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 (GSM 850/W 850/LTE B5/18/19/20/26)

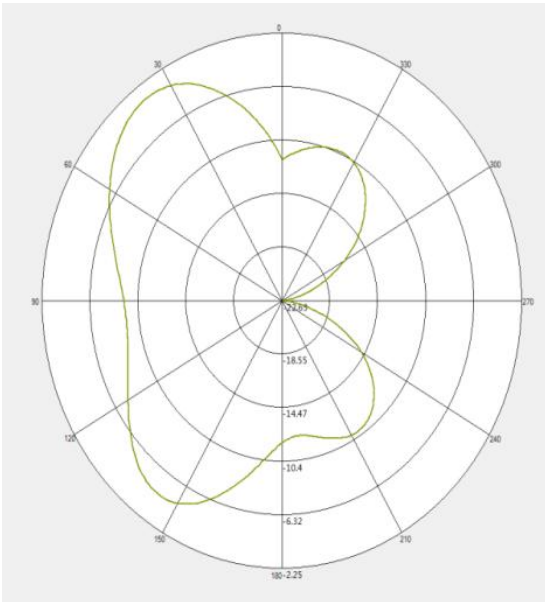
TOTAL



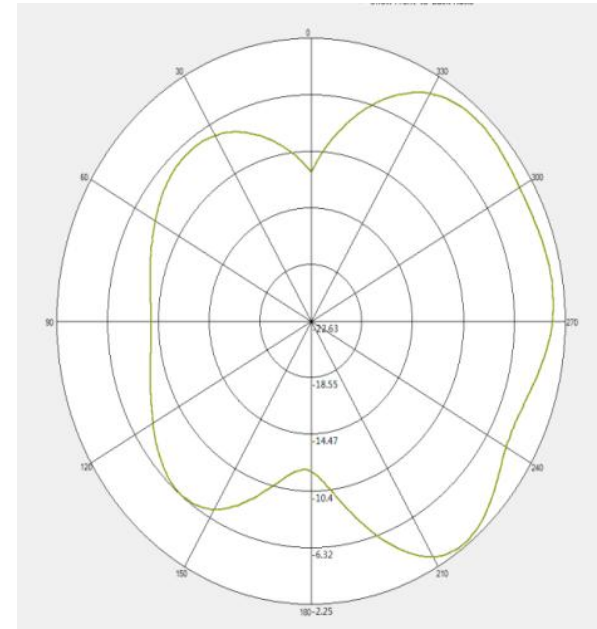
Theta 90



Phi 0

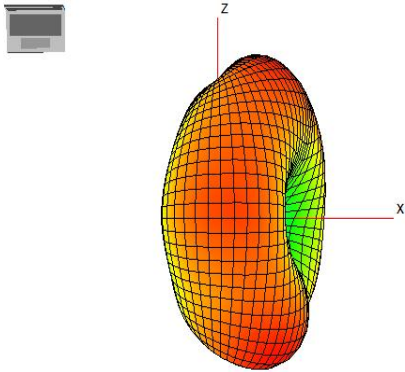


Phi 90

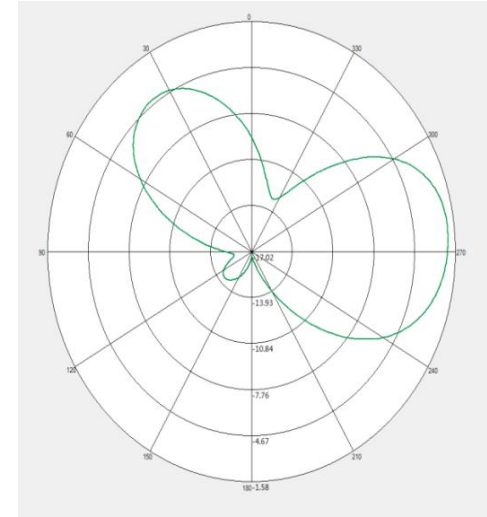


Efficient (GSM 900/W 900/LTE B8)

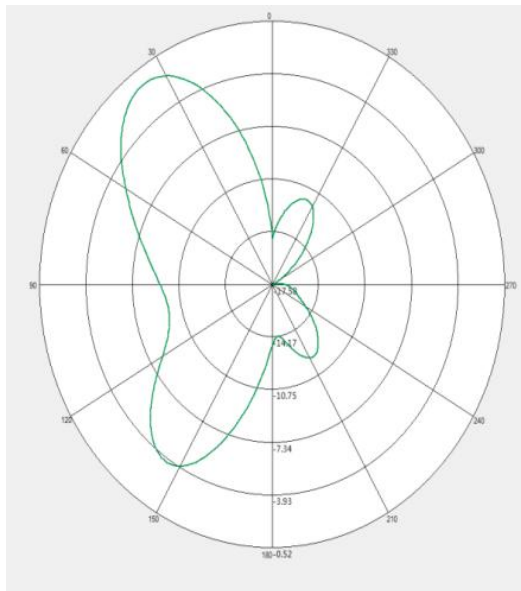
TOTAL



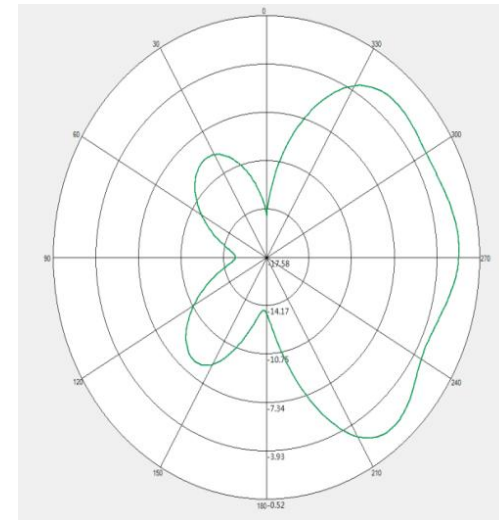
Theta 90



Phi 0

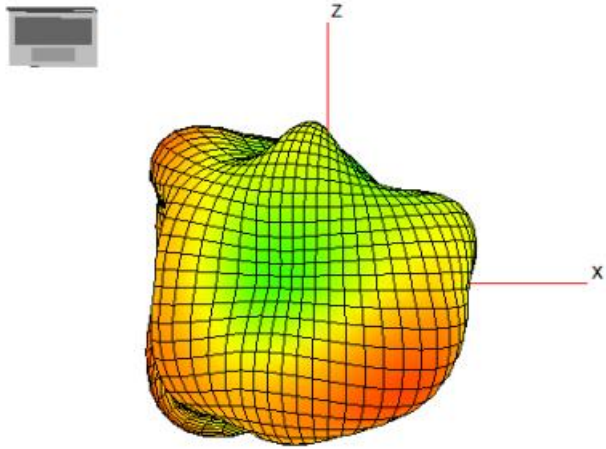


Phi 90

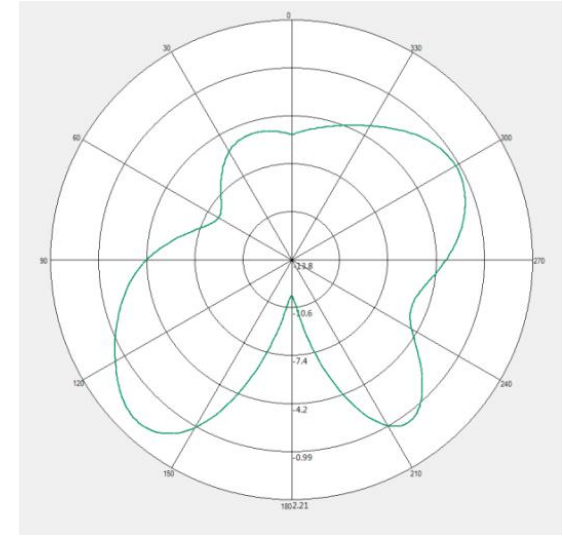


Efficient (GSM1900 W1/2 LTE B1/2)

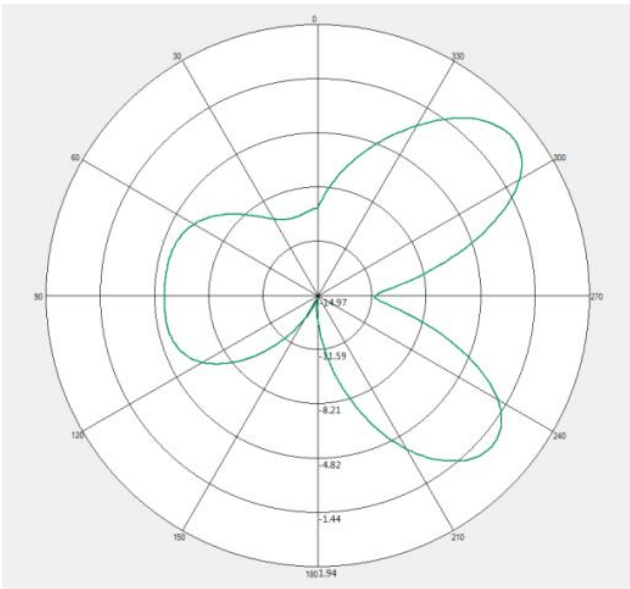
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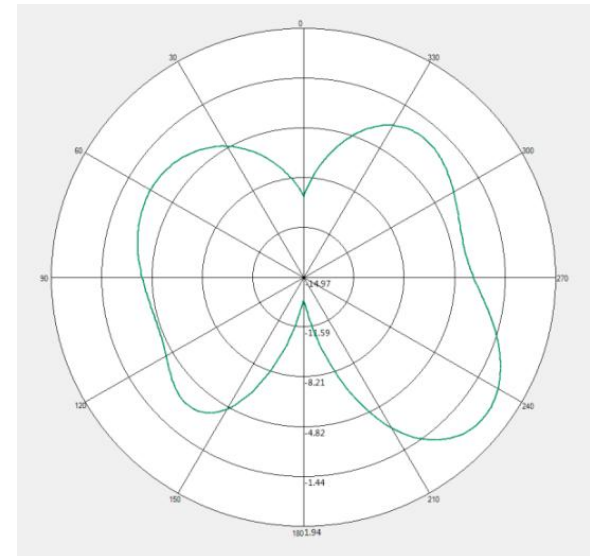
Theta 90



Phi 0

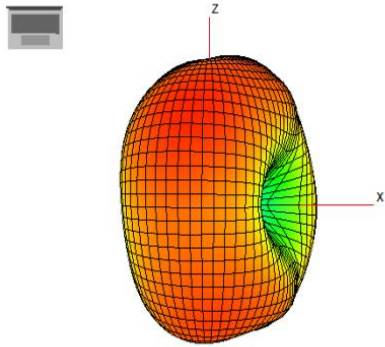


Phi 90

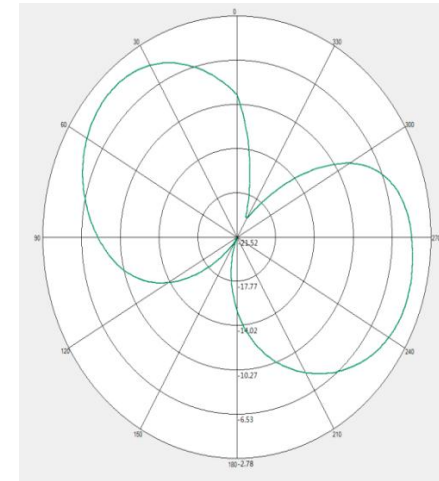


Efficient (LTE B12/17/28AB)

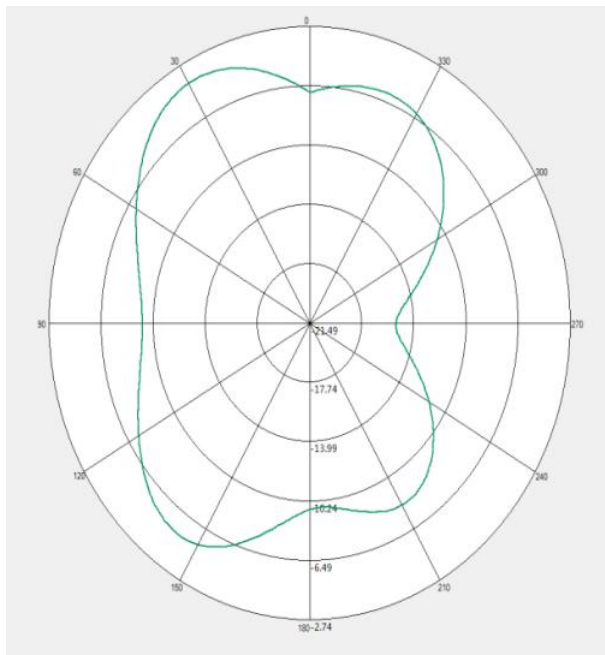
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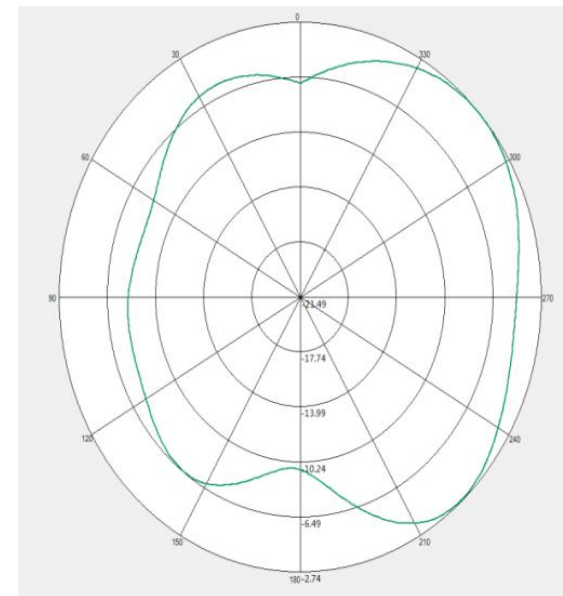
Theta 90



Phi 0

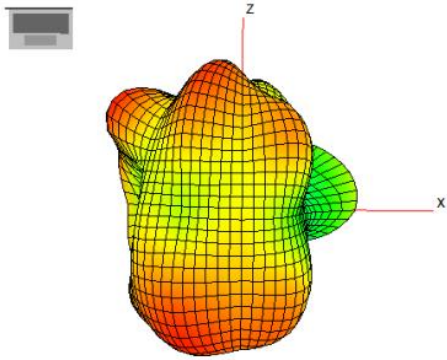


Phi 90

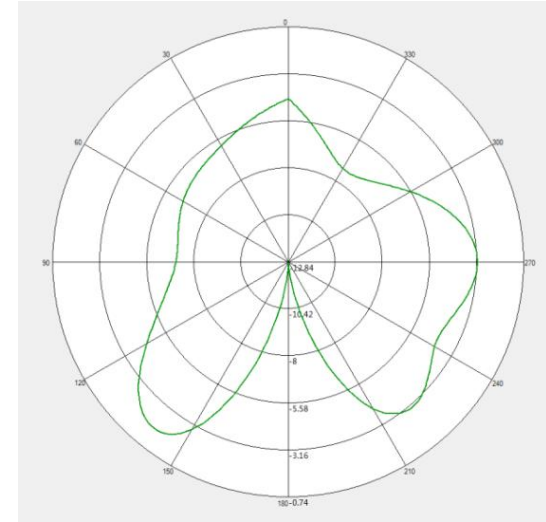


Efficient (LTE B7/38/41)

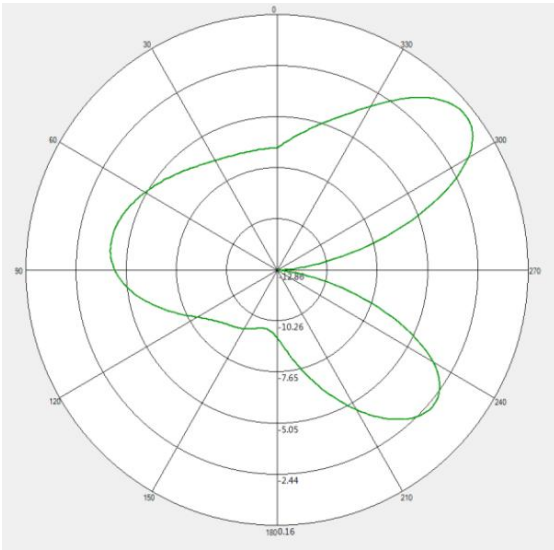
TOTAL



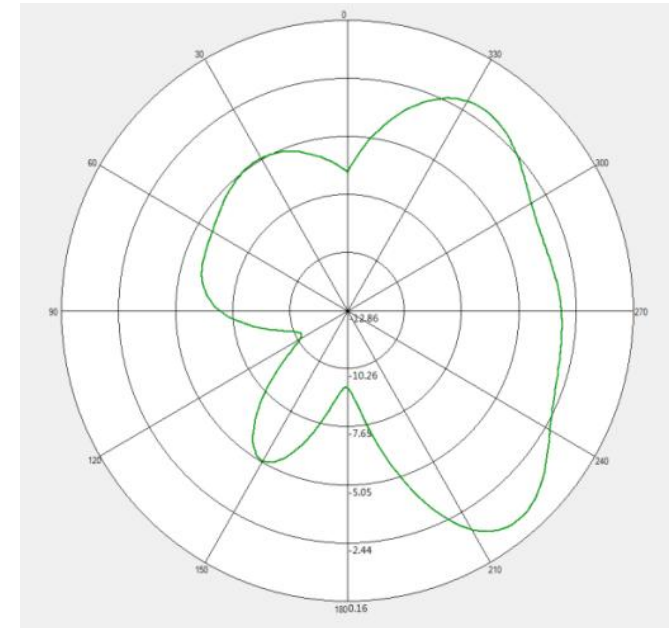
Theta 90



Phi 0

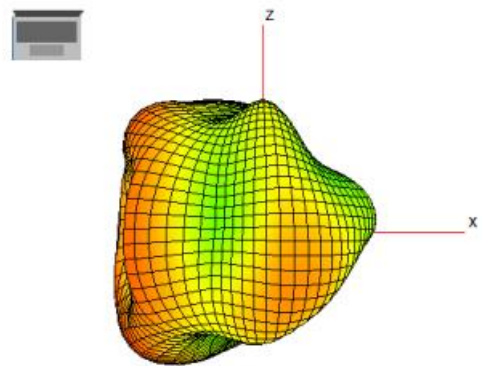


Phi 90

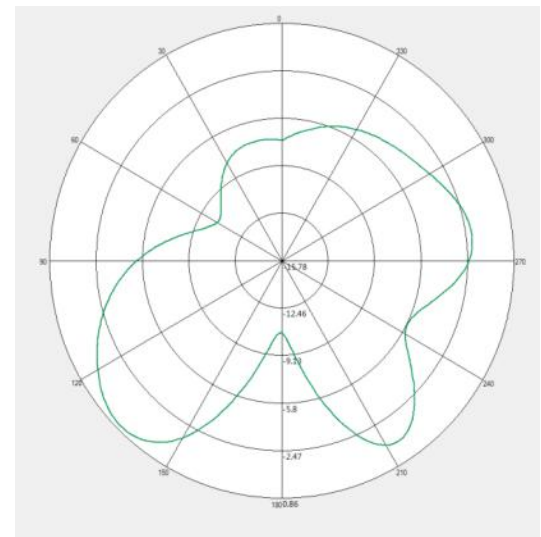


Efficient (GSM 1800 W4 LTE B3/4/66)

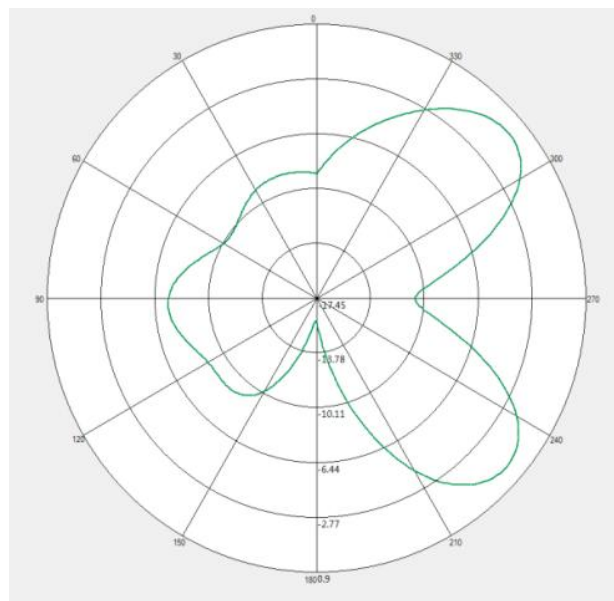
TOTAL



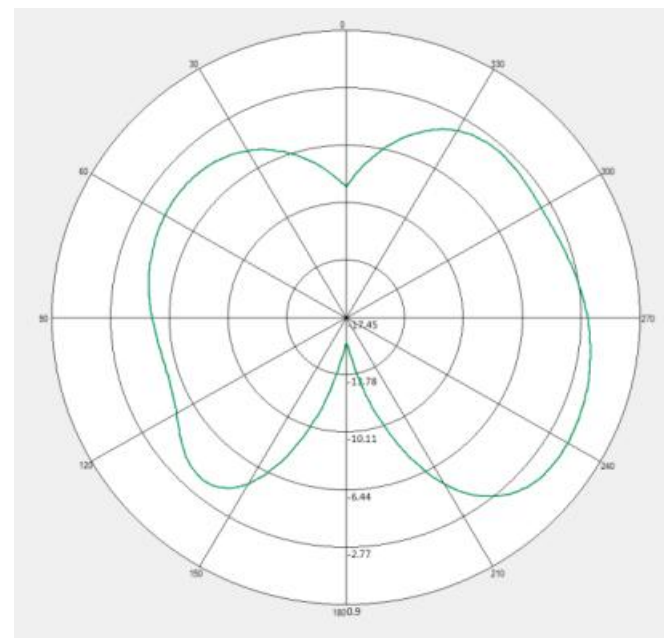
Theta 90



Phi 0

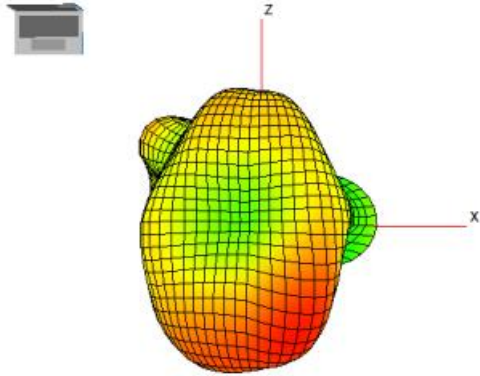


Phi 90

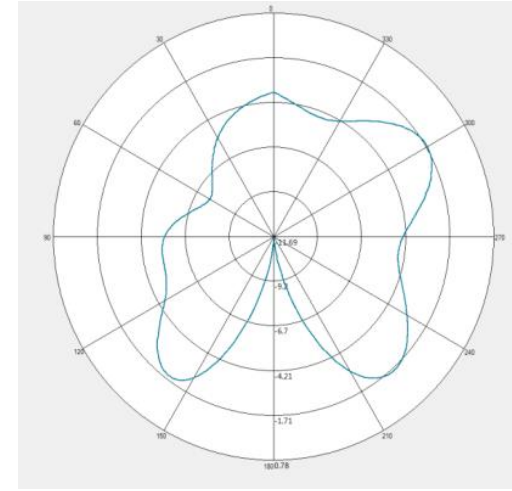


Efficient (LTE B40)

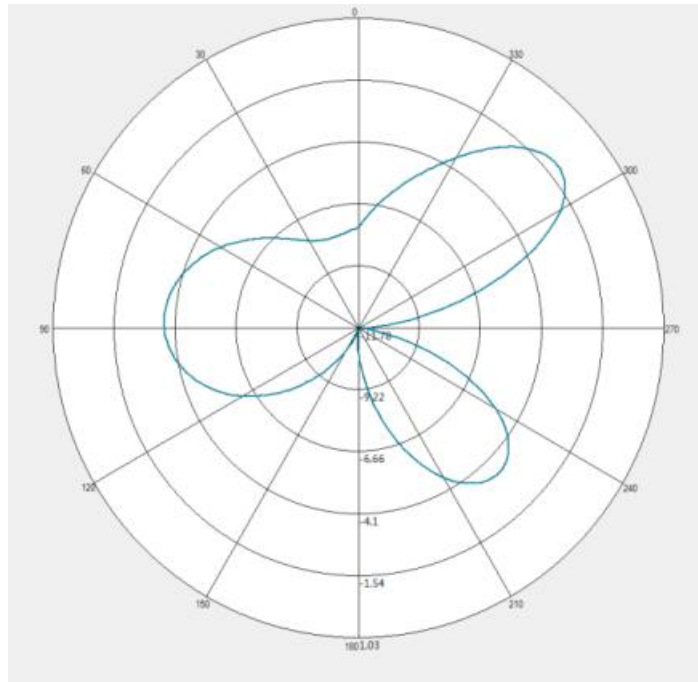
TOTAL



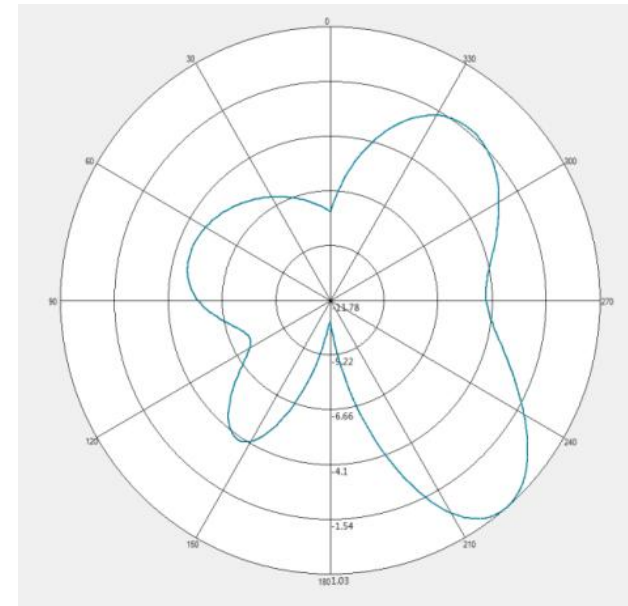
Theta 90



Phi 0

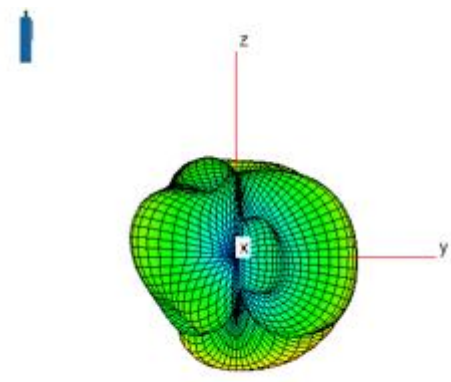


Phi 90

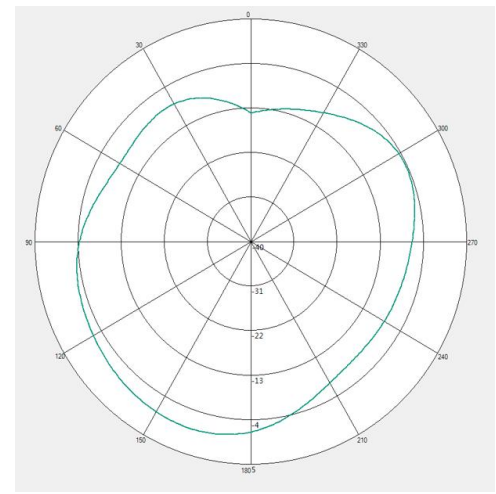


Efficient (2.4GWIFI/BT)

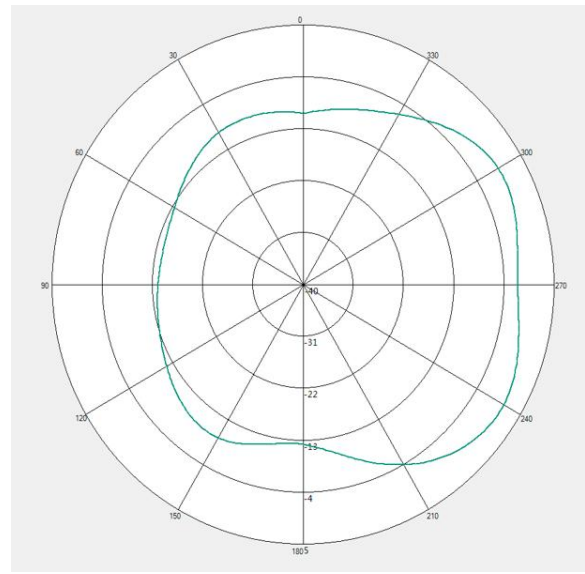
TOTAL



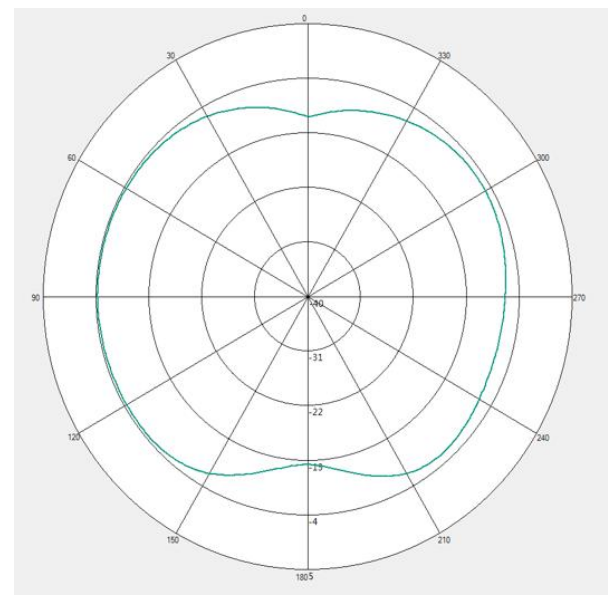
Theta 90



Phi 0

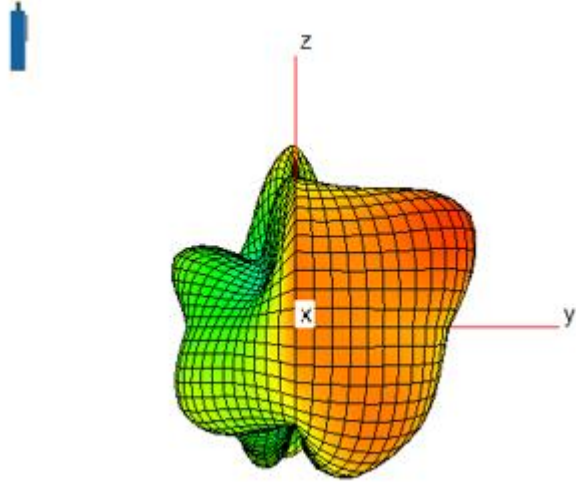


Phi 90

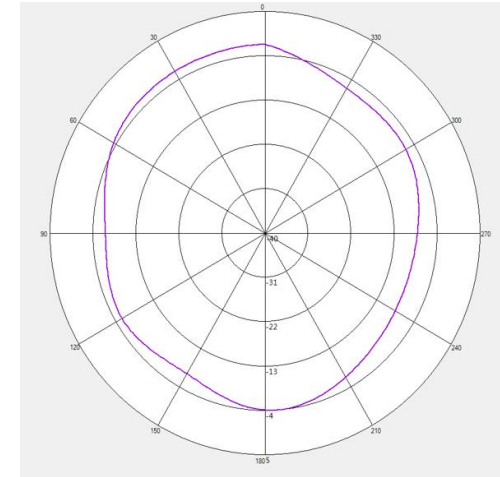


Efficient (5GWIFI 5000~5800MHz)

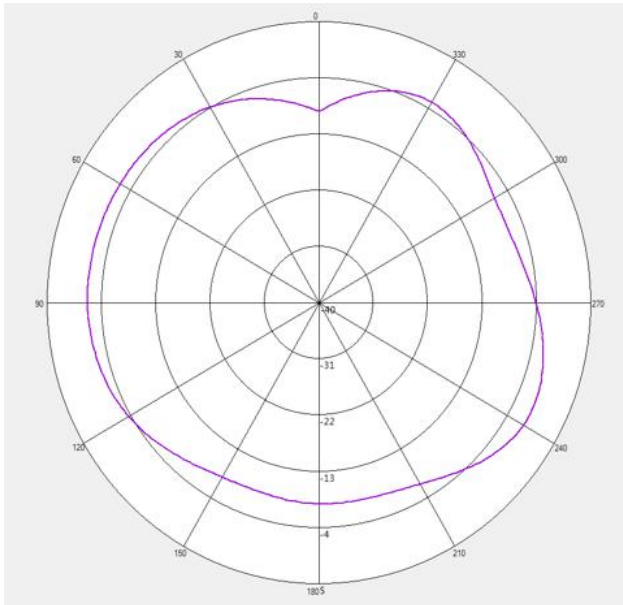
TOTAL



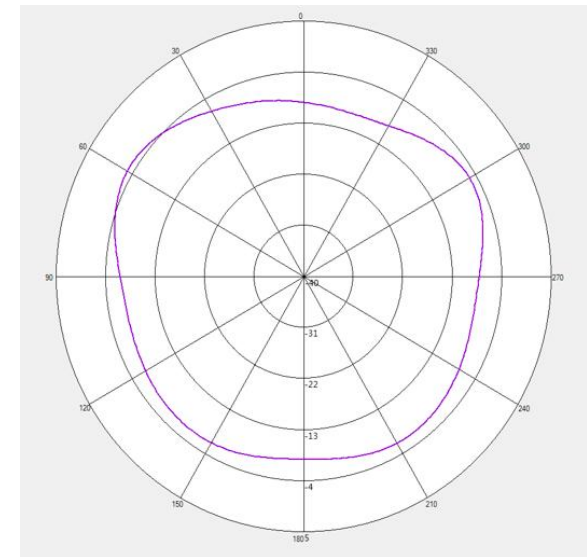
Theta 90



Phi 0

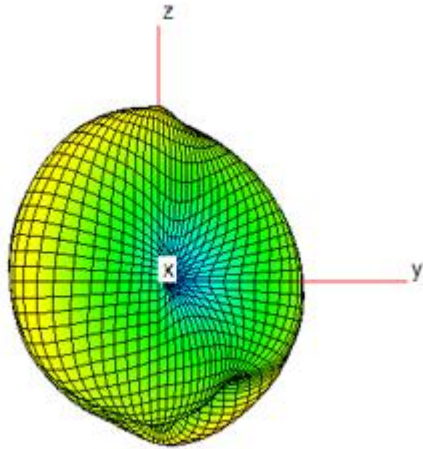


Phi 90

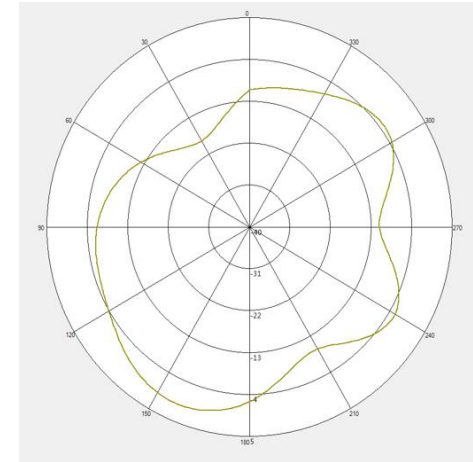


Efficient (GPS 1575.42MHz)

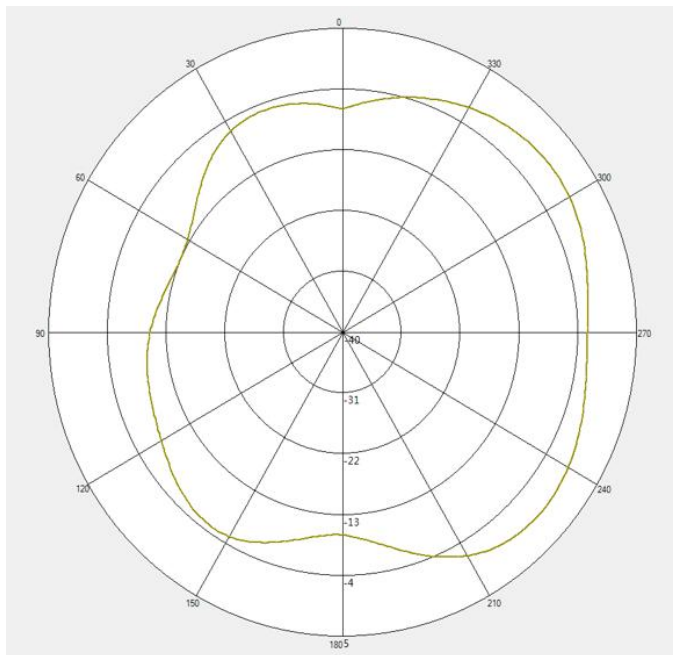
TOTAL



Theta 90



Phi 0



Phi 90

