Antenna test report

Customer Name:
Project Name: M412H

Designer: Li xiongji
Date: 2024/05/06

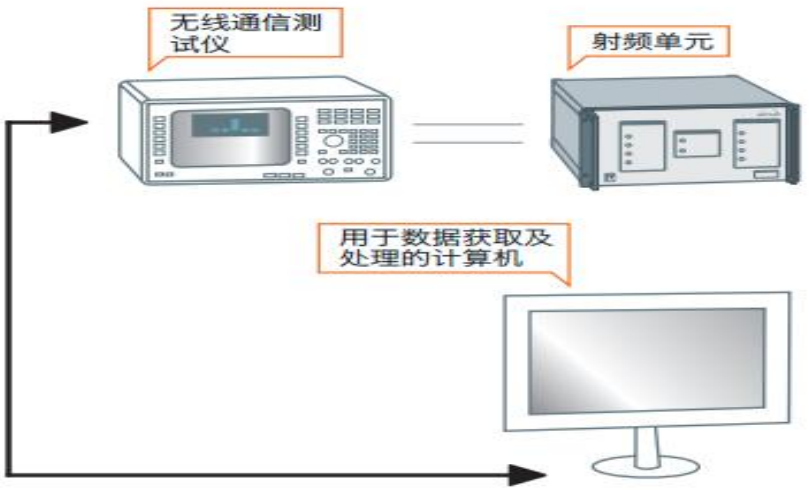
The customer name		Project Name	**M412H**

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

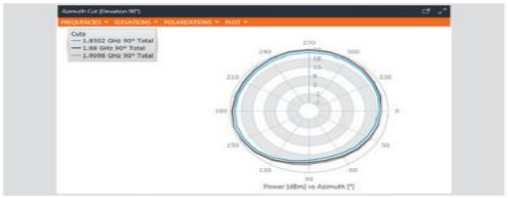


TIS预计测量时间（一个信道每隔30° 取样）

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

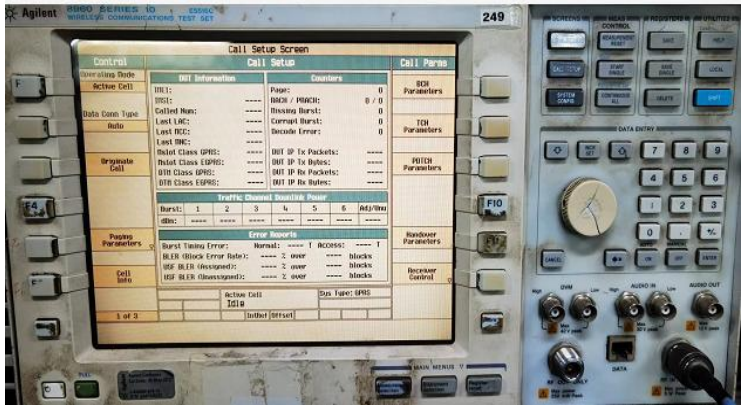
1、根据RTC
2、根据协议

TIS 3D方位切割强度图



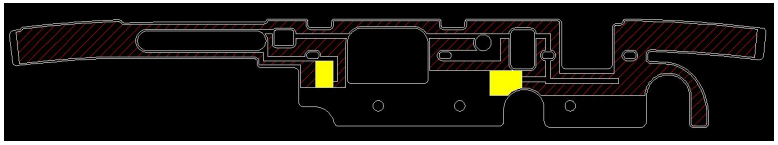
TRP 3D方位切割强度图

Test Equipment

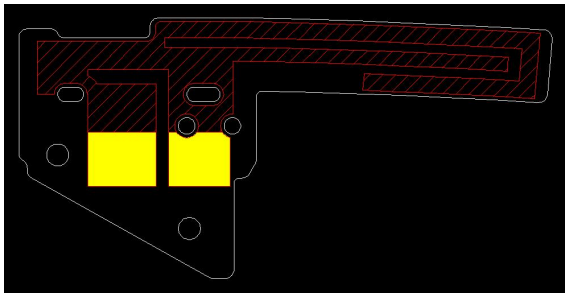


Antenna position

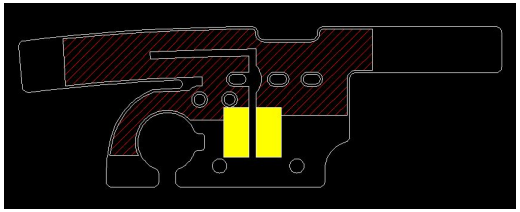
WWAN LB antenna



GPS/WIFI/BT antenna



WWAN M&H antenna

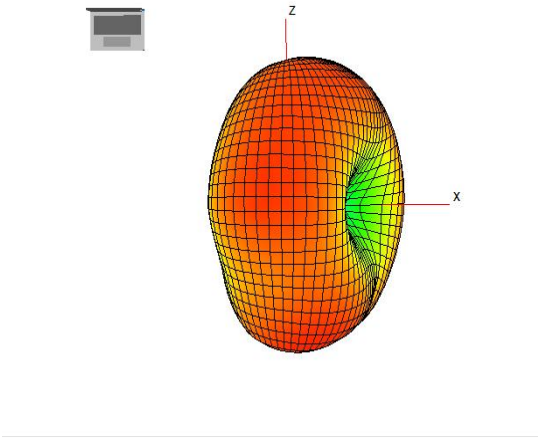


Efficient（ 2G+3G+4G+WiFi /BT+GPS）

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



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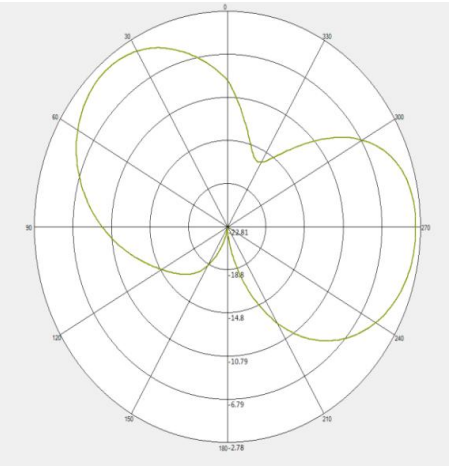

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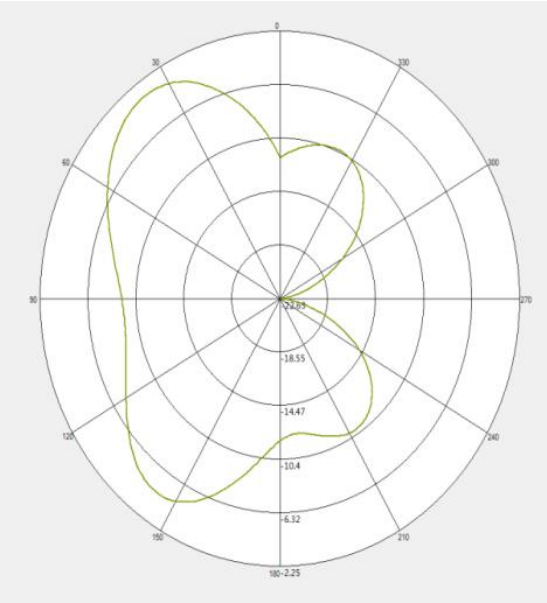

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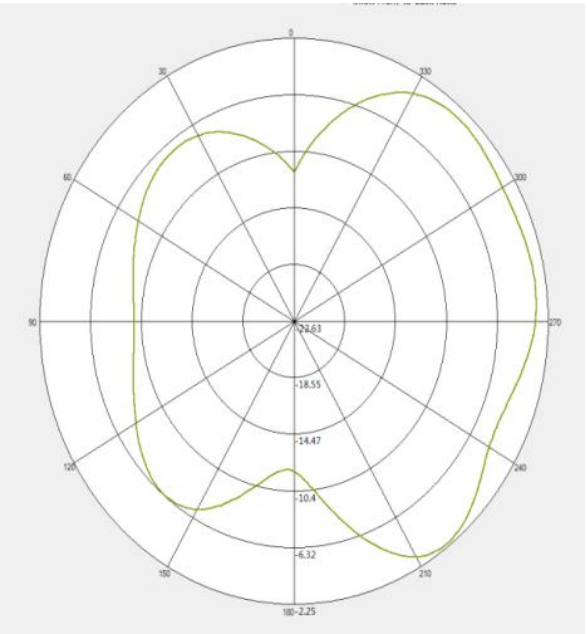
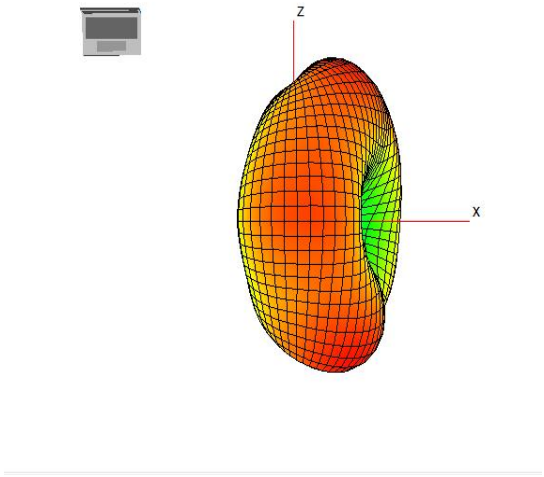


Efficient (GSM 900/W 900/LTE B8)

TOTAL



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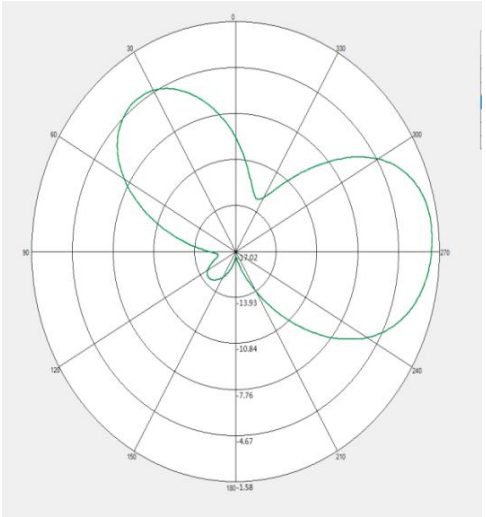

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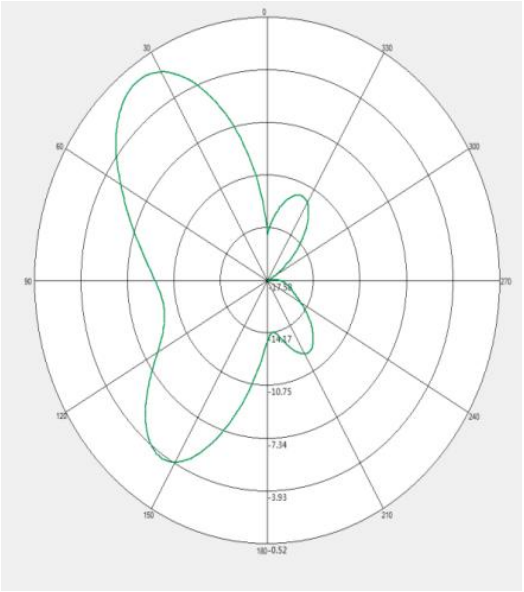

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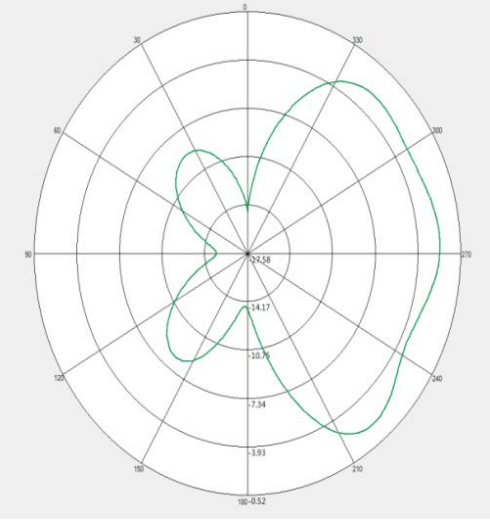
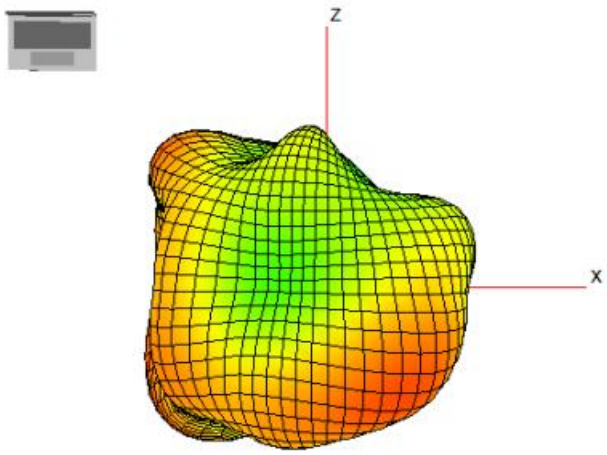


Efficient（GSM1900 W1/2 LTE B1/2）

TOTAL



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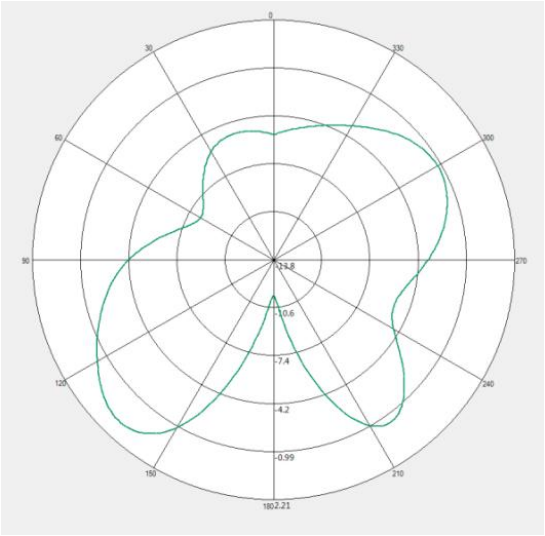

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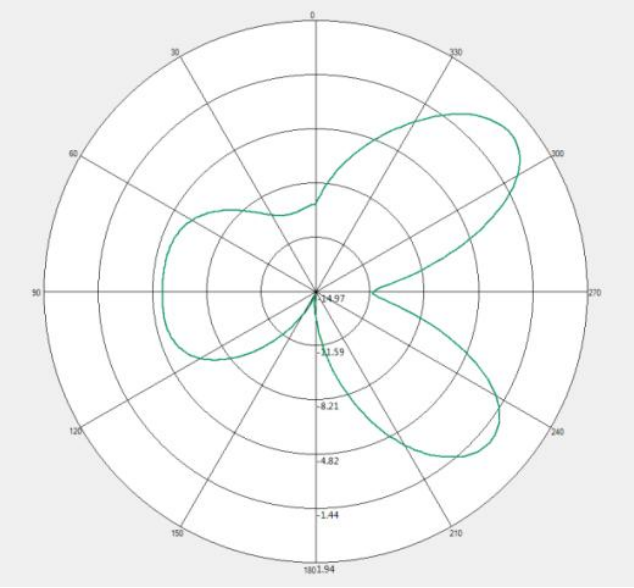

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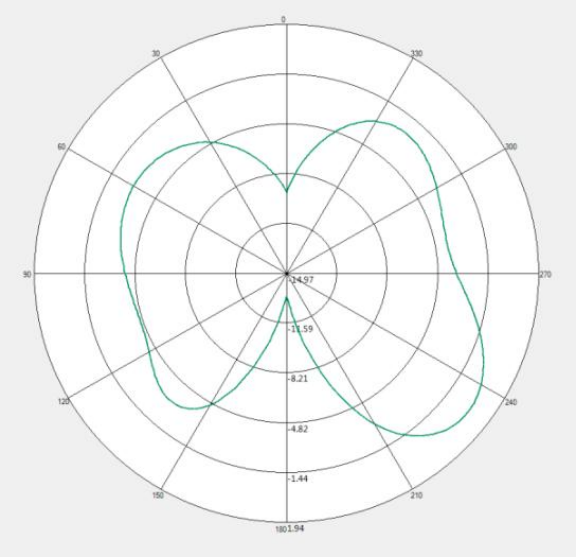
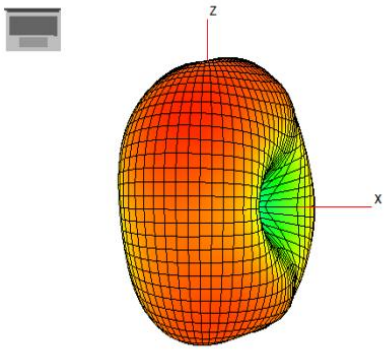


Efficient（LTE B12/17/28AB）

TOTAL



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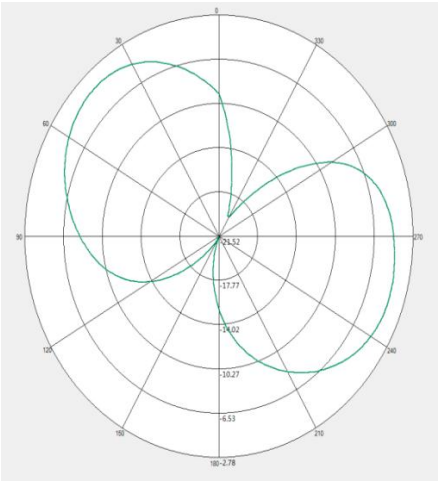

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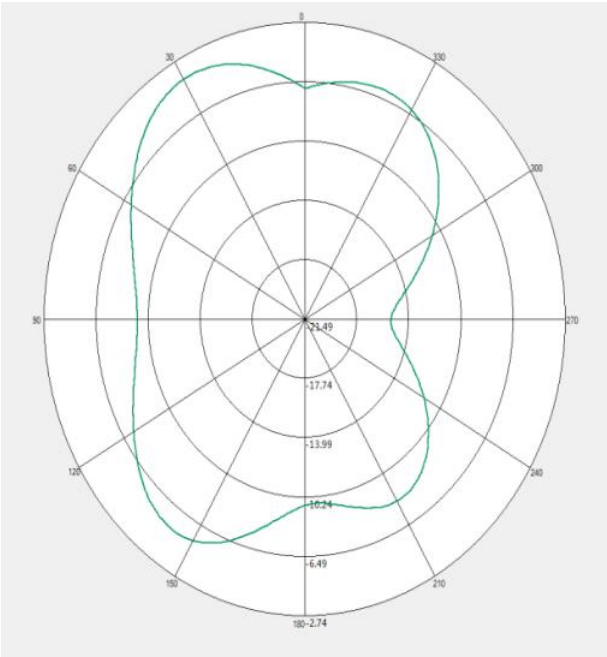

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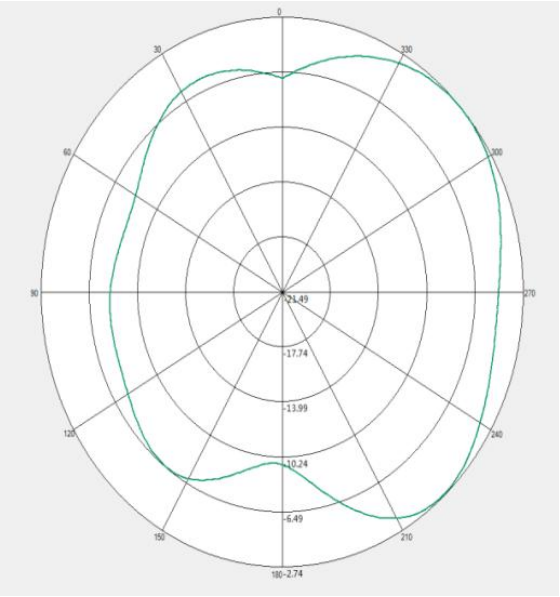
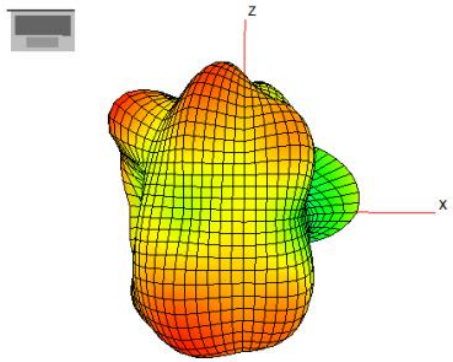


Efficient（LTE B7/38/41 ）

TOTAL



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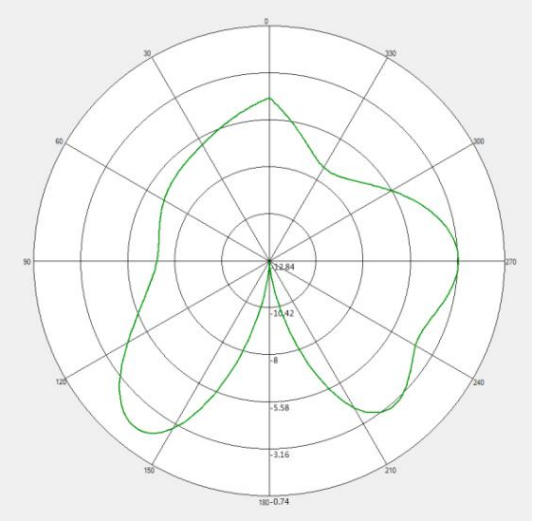

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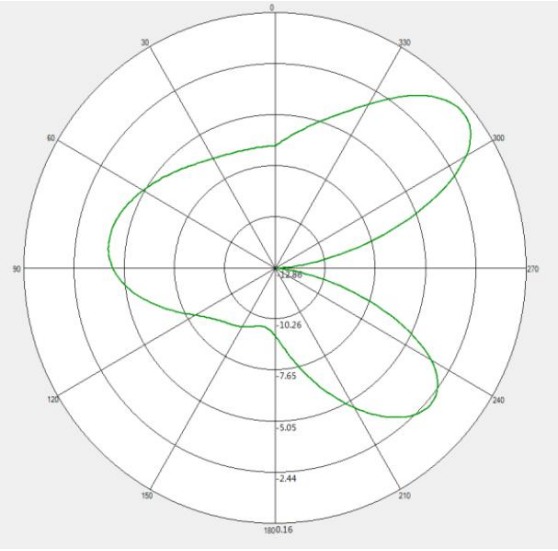

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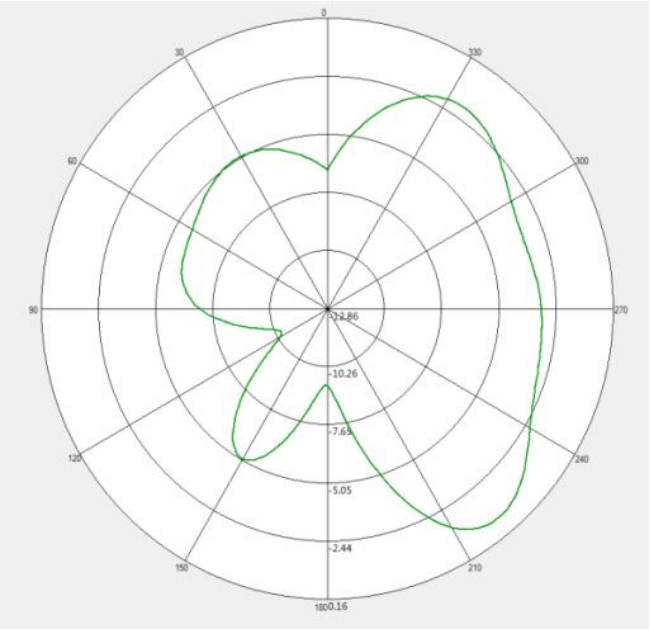
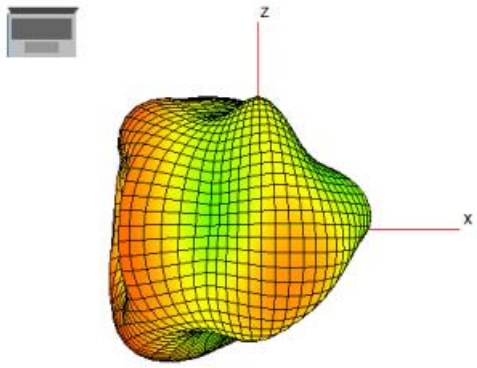


Efficient（ GSM 1800 W4 LTE B3/4/66）

TOTAL



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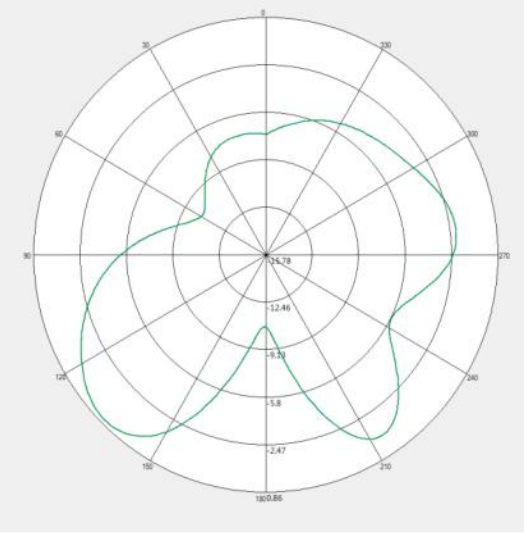

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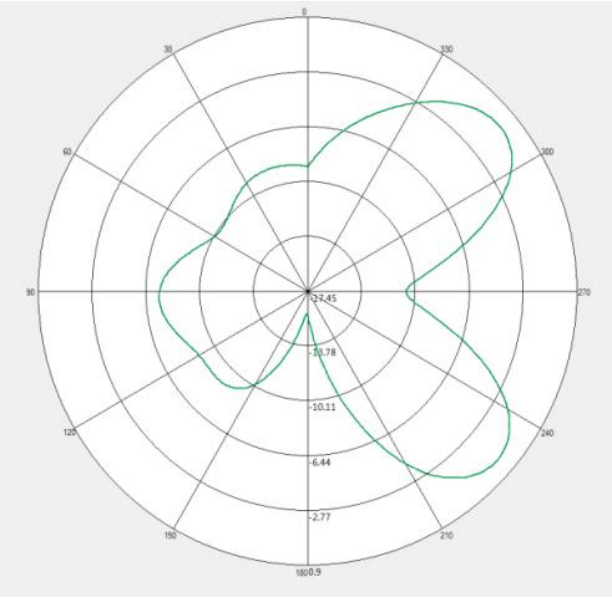

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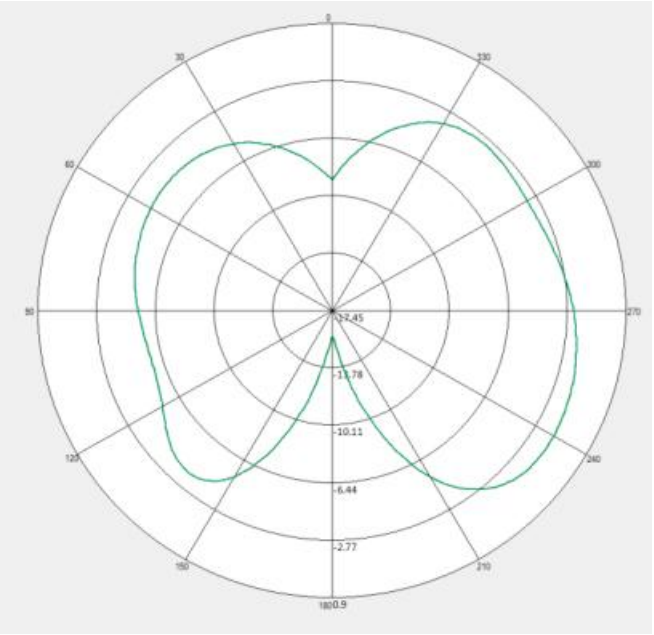
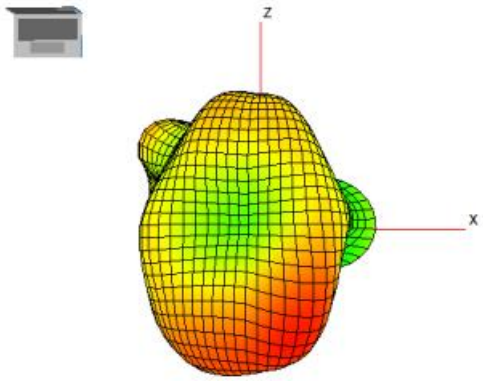


Efficient（LTE B40 ）

TOTAL



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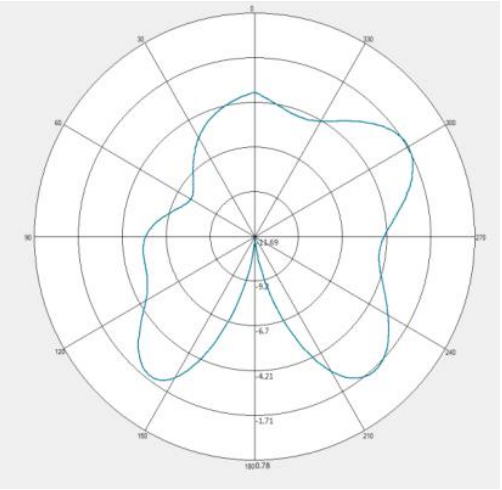

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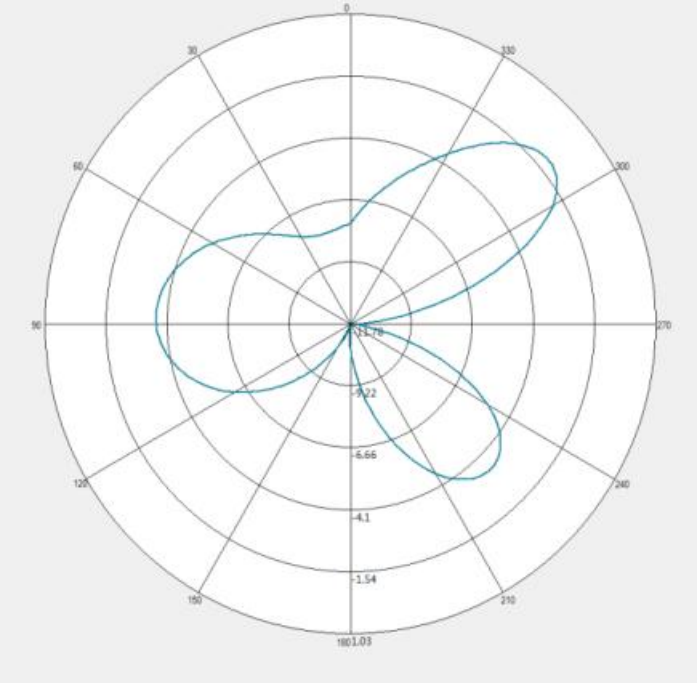

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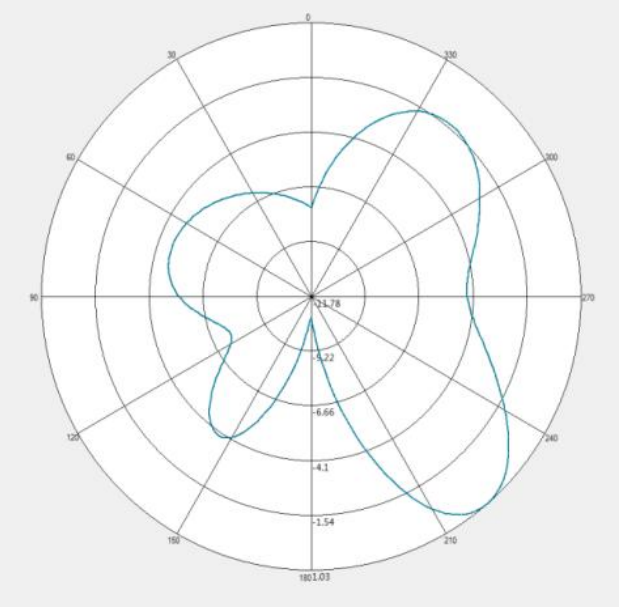
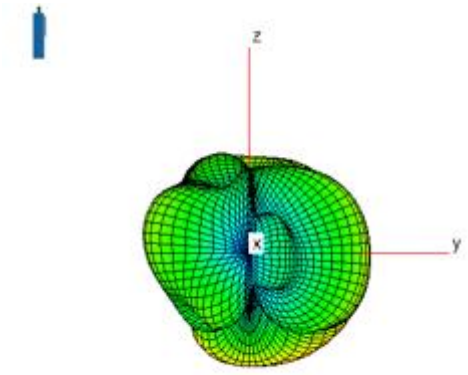


Efficient（2.4GWIFI/BT)

TOTAL



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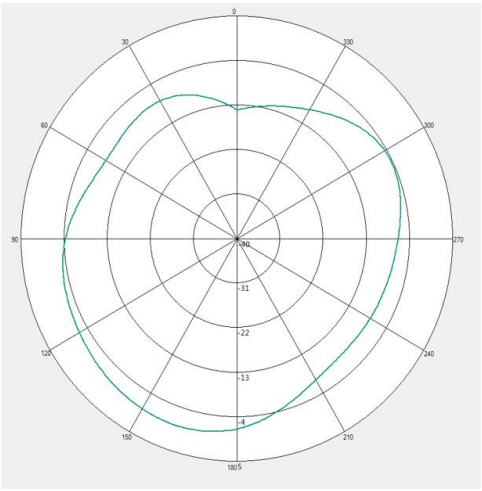

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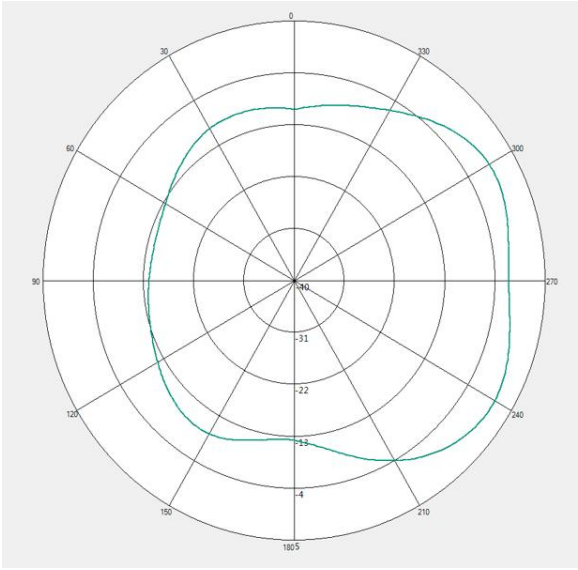

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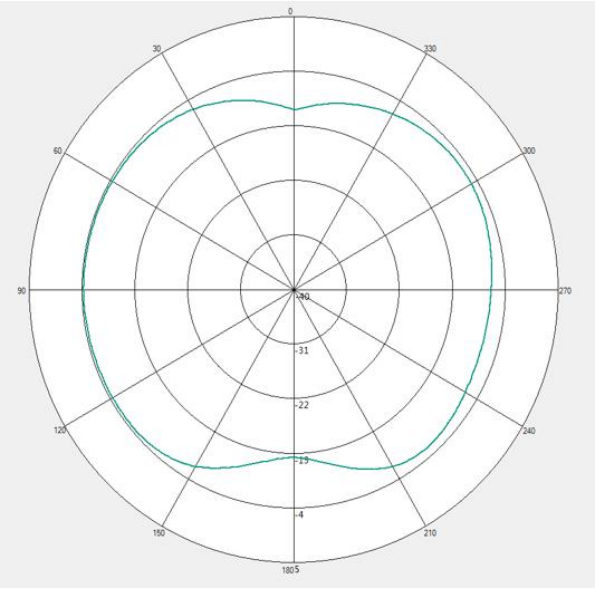
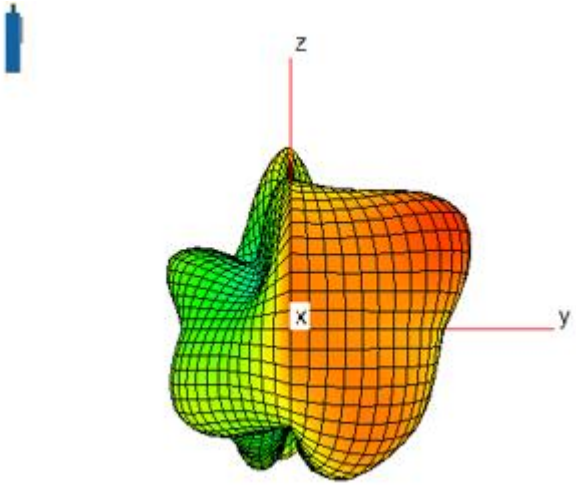


Efficient（5GWIFI 5000~5800MHz）

TOTAL



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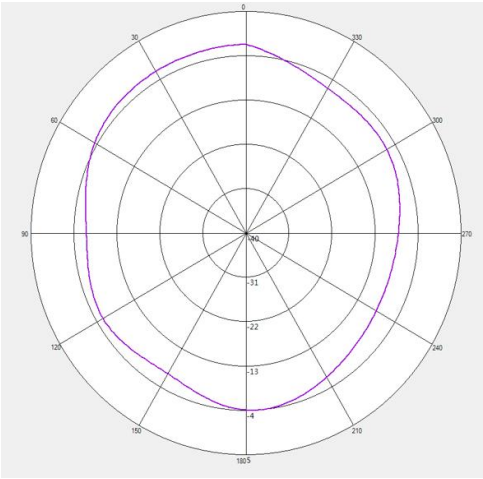

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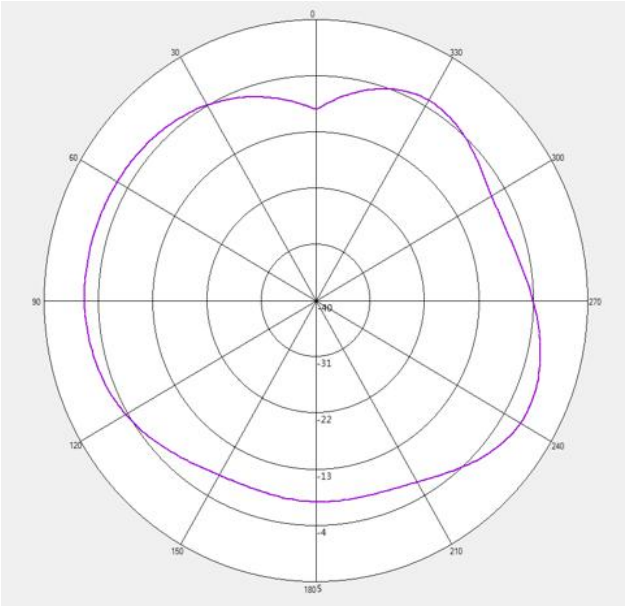

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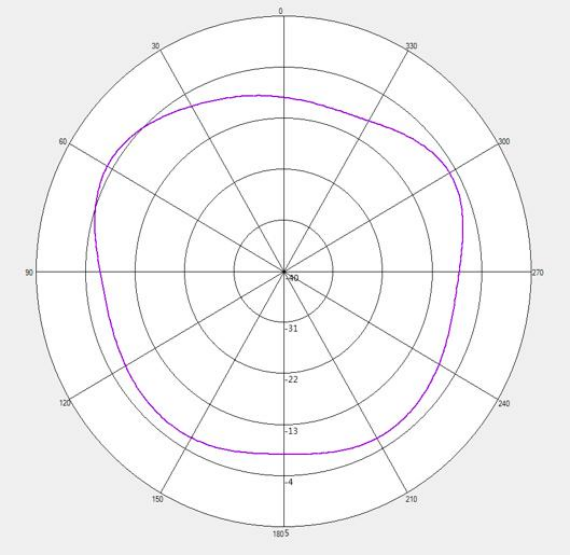
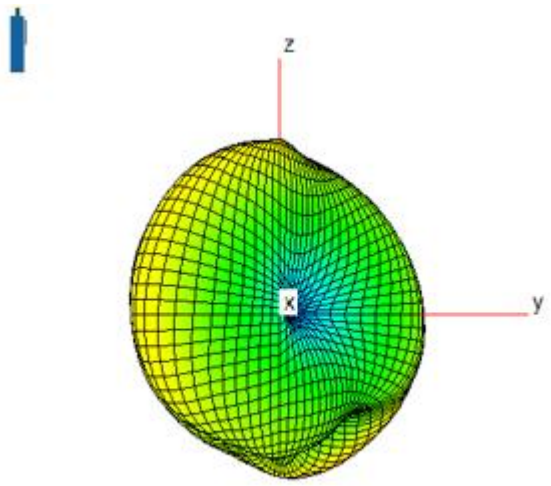


Efficient (GPS 1575.42MHz)

TOTAL



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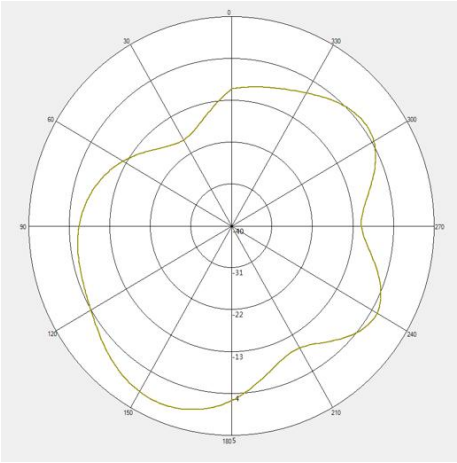

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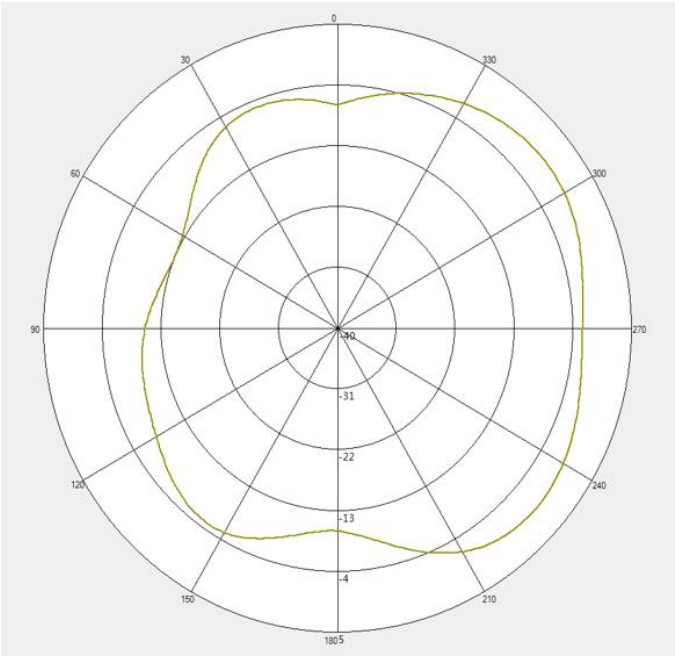
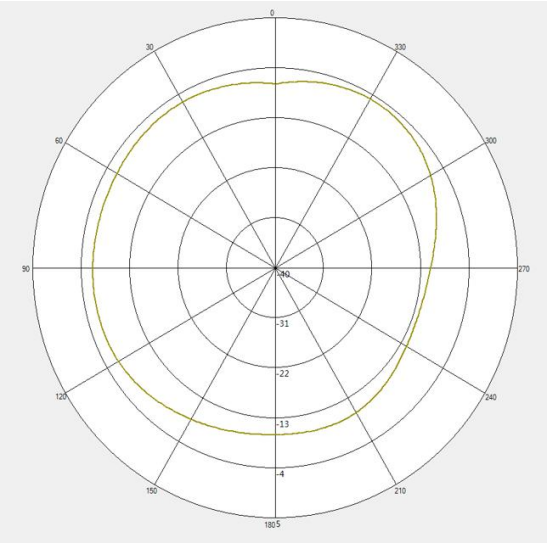
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