



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Tian Rui Xiang

Project Name: S609

Designer: li jun xian

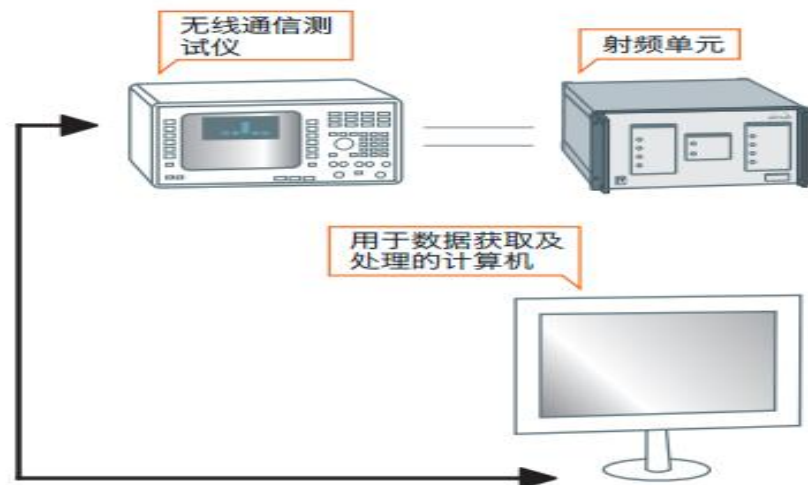
Date: 2024/11/21



The customer name		Tian Rui Xiang	Project Name	S609
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900/+WCDMA-B1/B2/B4/B5/B8/+LTE-B1/B2/B3/B4/B5/B7/B8/12/17/20/66+WIFI/BT/GPS		
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 junxian	18520807601	hxw_ljx@sz-hxw.cn

1、Test system and test equipment

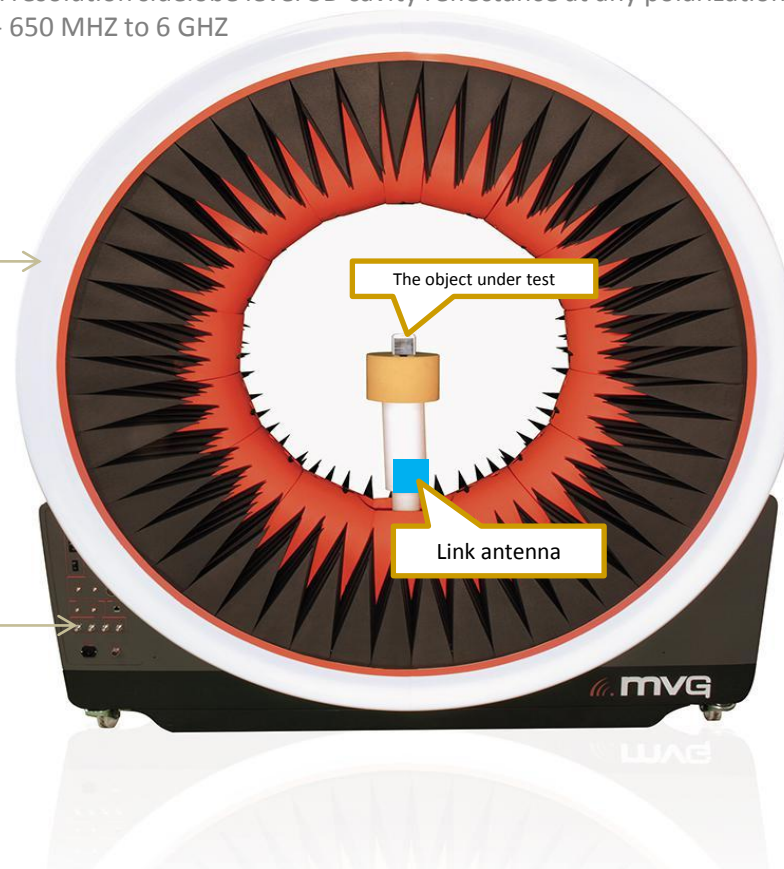
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



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

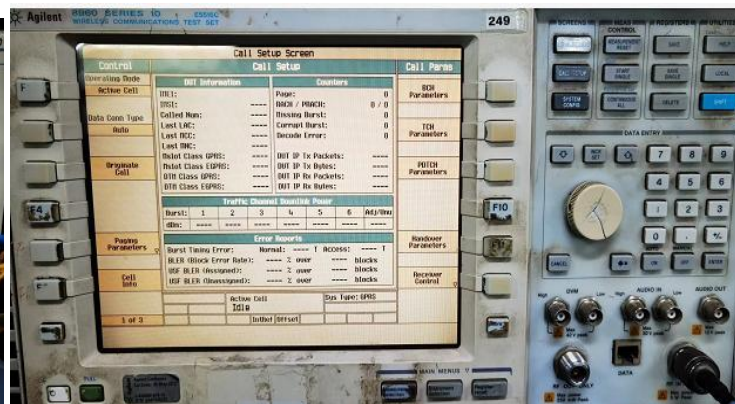


TIS 3D方位切割强度图

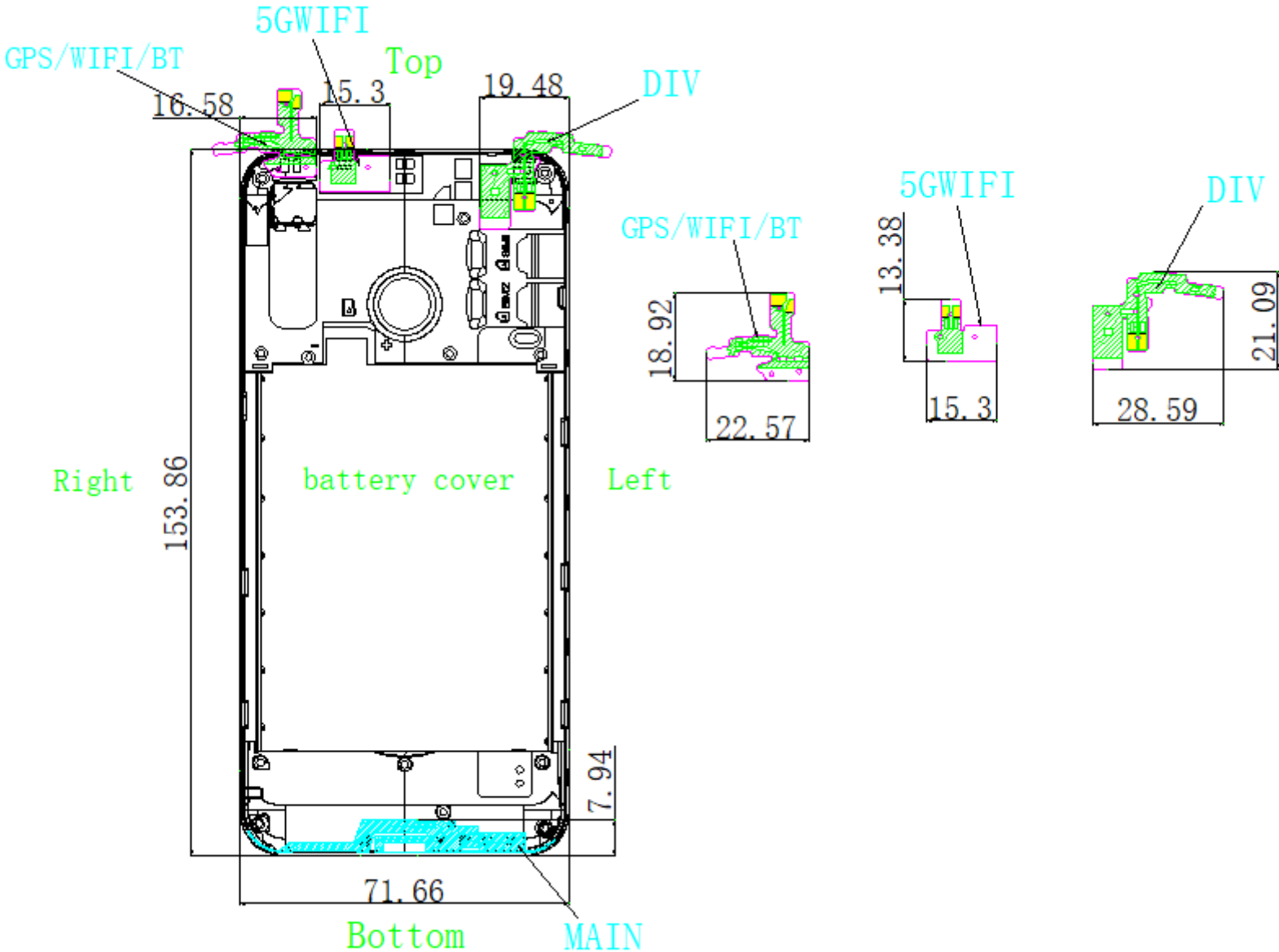


TRP 3D方位切割强度图

Test Equipment



Antenna position

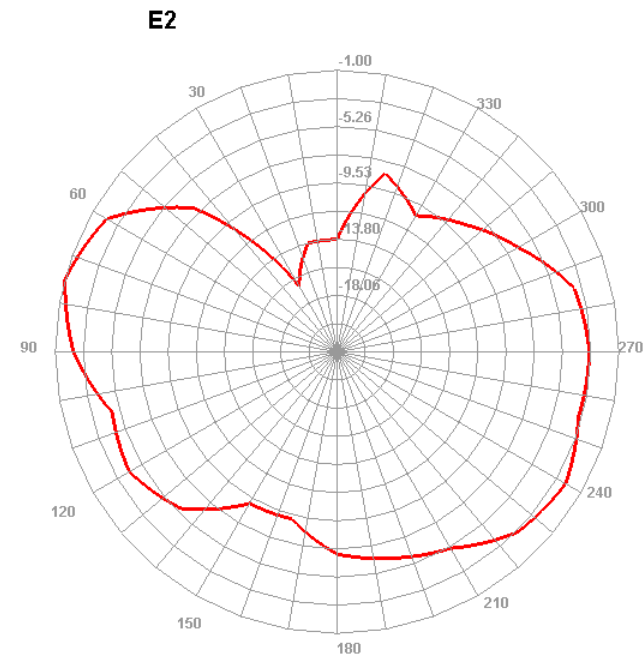
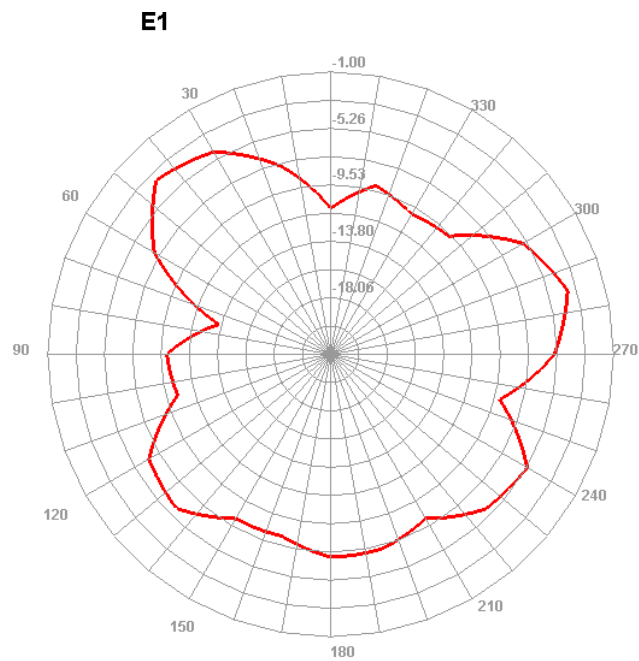
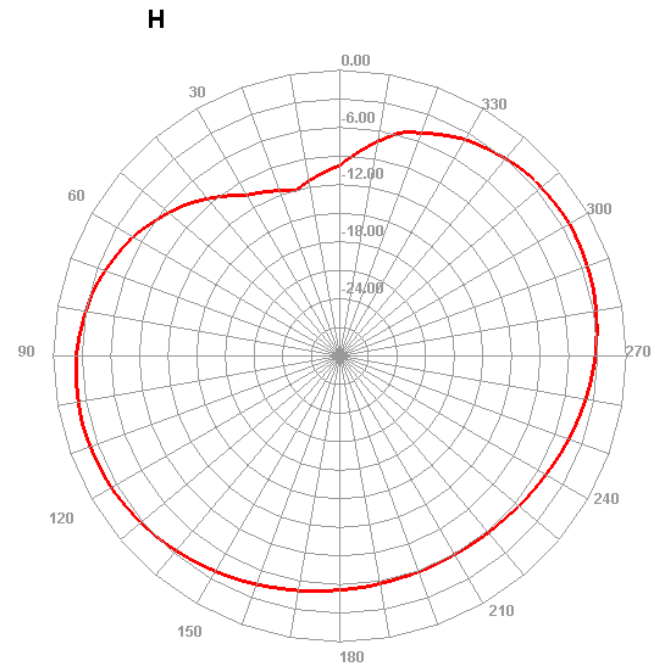
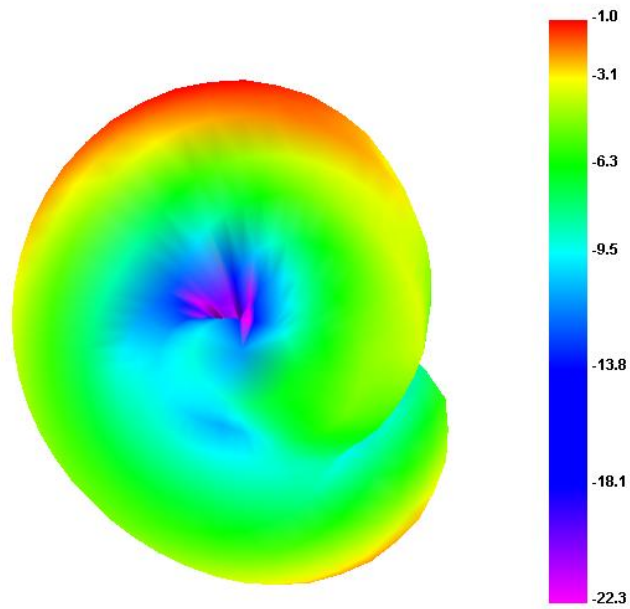


Efficient (2. 4G-WiFi /BT)

PEAK GAIN					
下天线 Main Antenna			上天线 Diversity Antenna		
2G	Frequency range	dbi	2G	Frequency range	dbi
GSM850	824~894Mhz	-0.98dBi	DCS1800	1710~1880Mhz	+0.54dBi
GSM900	880~960Mhz	-1.03dBi	PCS1900	1850~1990Mhz	+0.78dBi
3G			3G		
W5	824~894Mhz	-0.98dBi	W1	1920~2170Mhz	+0.7dBi
W8	880~960Mhz	-1.03dBi	W2	1850~1990Mhz	+0.78dBi
			W4	1712~2152Mhz	+0.61dBi
4G			4G		
LTE-B5	824~894Mhz	-0.98dBi			
LTE-B8	880~960Mhz	-1.03dBi	LTE-B1	1920~2170Mhz	+0.7dBi
LTE-B12	699~743Mhz	-1.07dBi	LTE-B2	1851~1985Mhz	+0.78dBi
LTE-B17	705~741Mhz	-1.07dBi	LTE-B3	1710~1880Mhz	+0.54dBi
LTE-B20	832~862Mhz	-0.98dBi	LTE-B4	1712~2152Mhz	+0.61dBi
LTE-B66	1711~2175Mhz	-3.74dBi	LTE-B7	2500~2690Mhz	+0.67dBi
			LTE-B66	1711~2175Mhz	+0.61dBi
WIFI	2400~2500Mhz	1.2dBi			
WIFI	5150~5850Mhz	1.3dBi			
BT	2400~2500Mhz	1.2dBi			
GPS	1575Mhz	-0.15dBi			

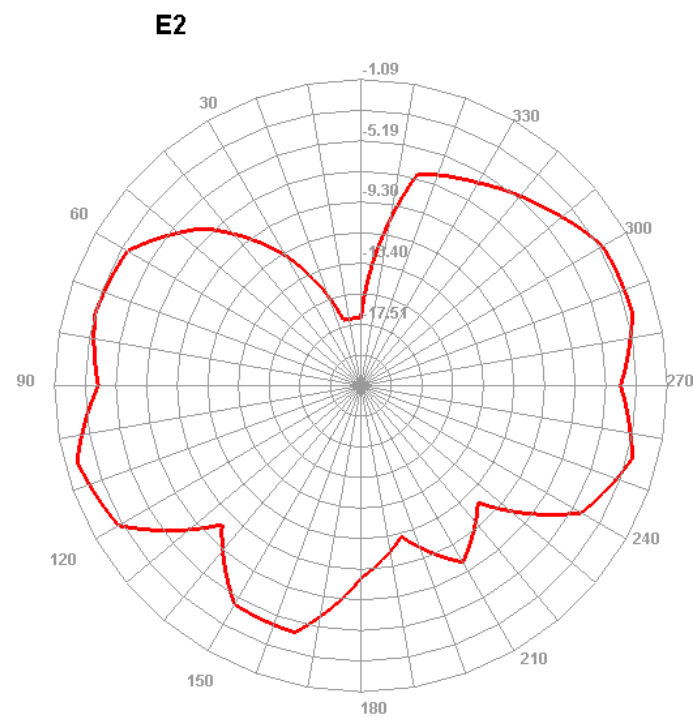
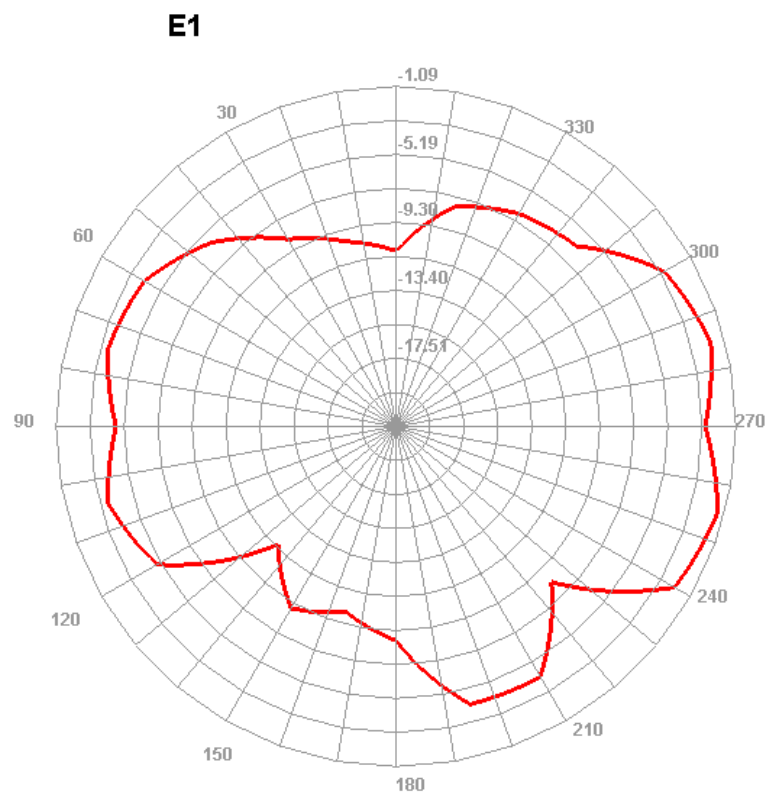
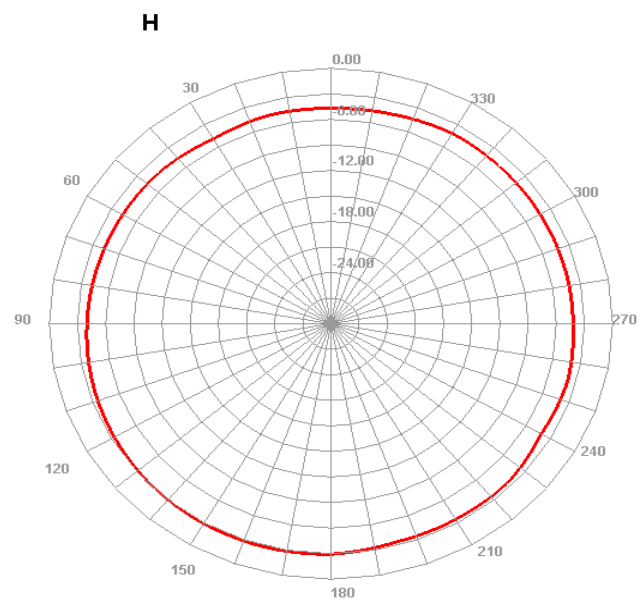
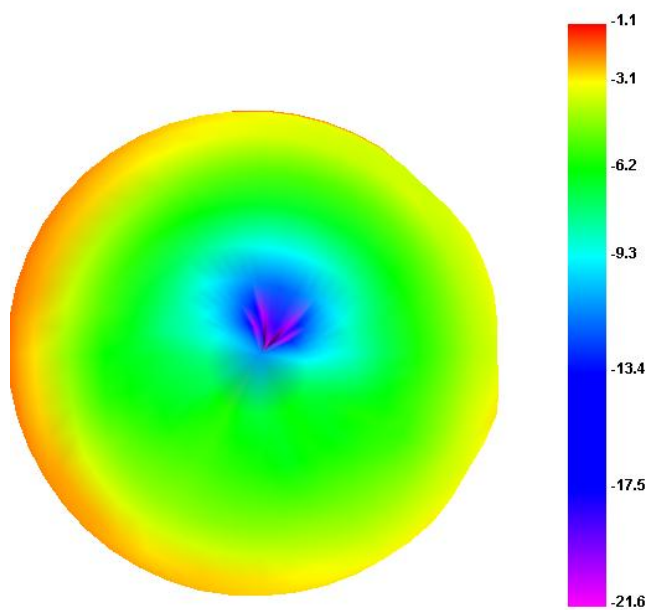
Efficient (GSM850+W5+LTE.B5+B20 824~894M

Lower antenna

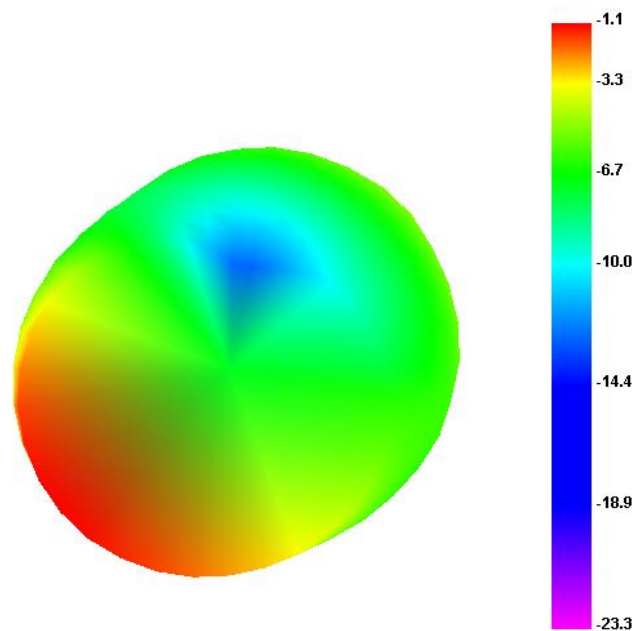


Efficient (GSM900+W8+LTE.B8 880~960Mhz)

Lower antenna

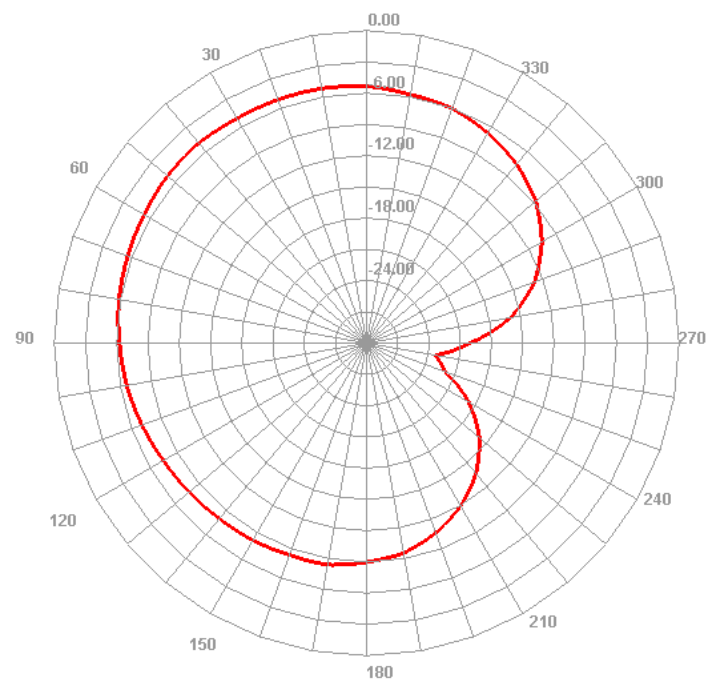


Efficient (LTE.B12+B17 699~798Mhz)

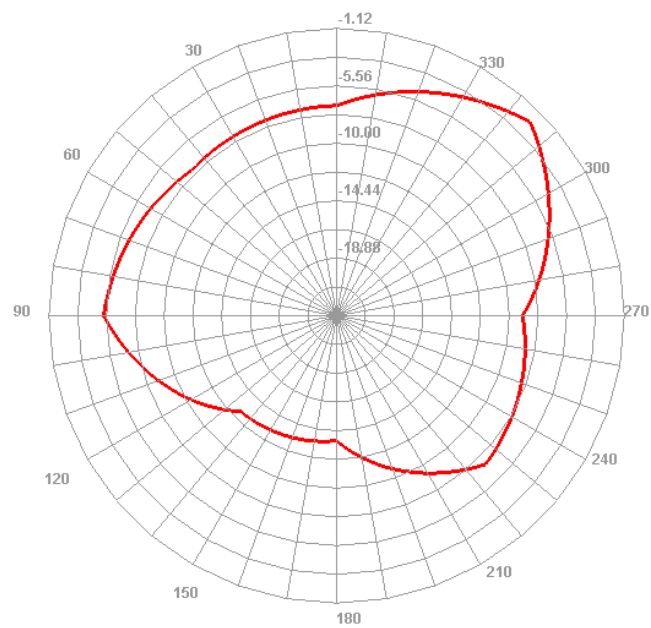


Lower antenna

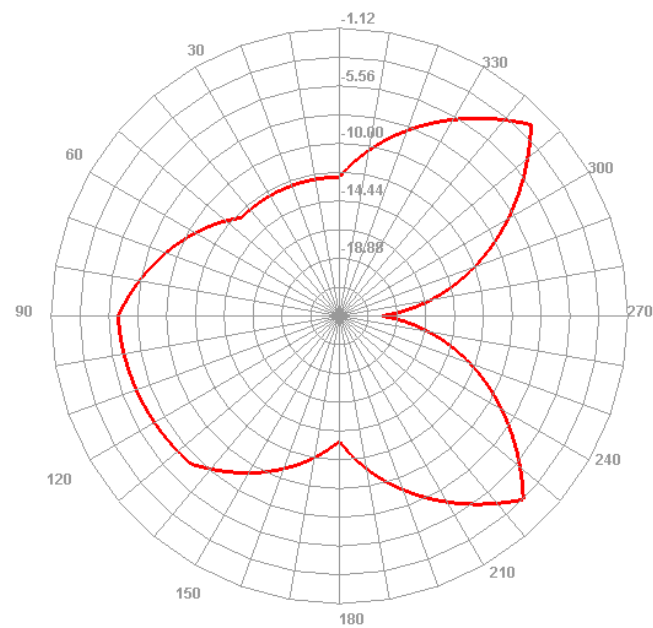
H



E1

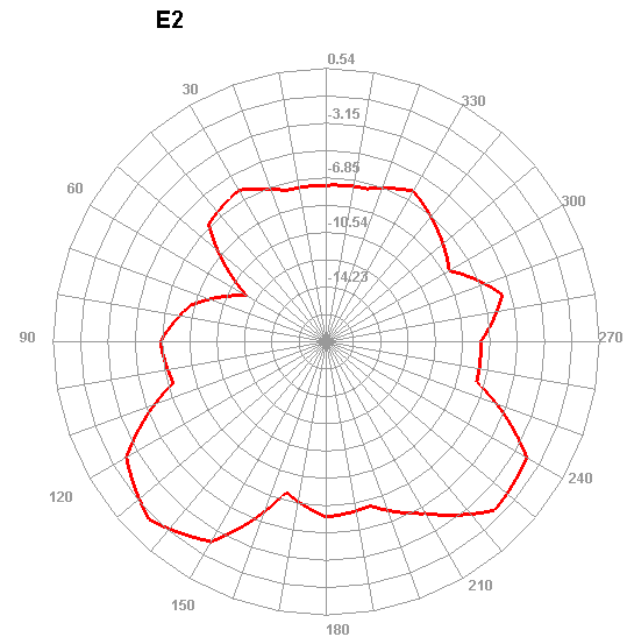
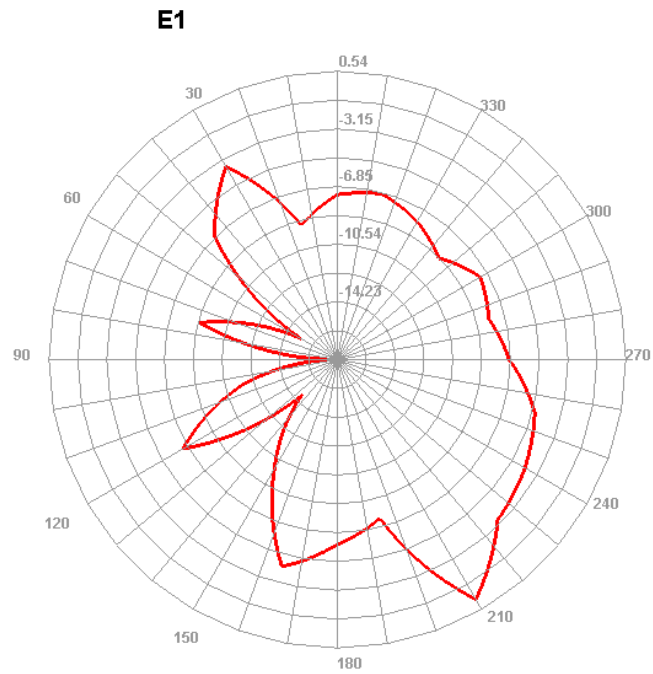
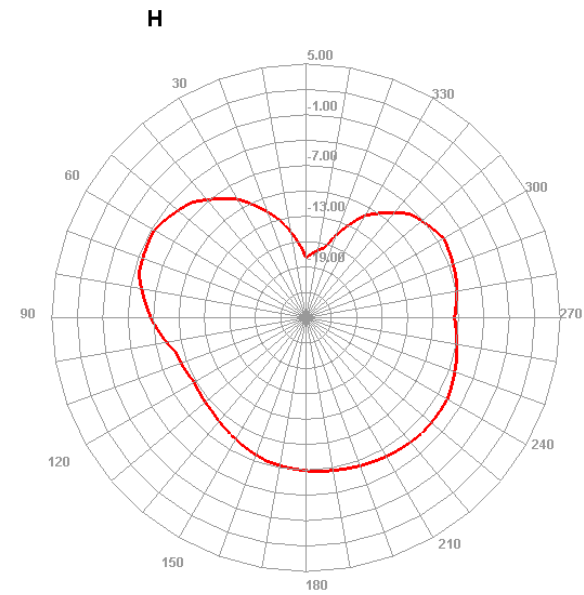
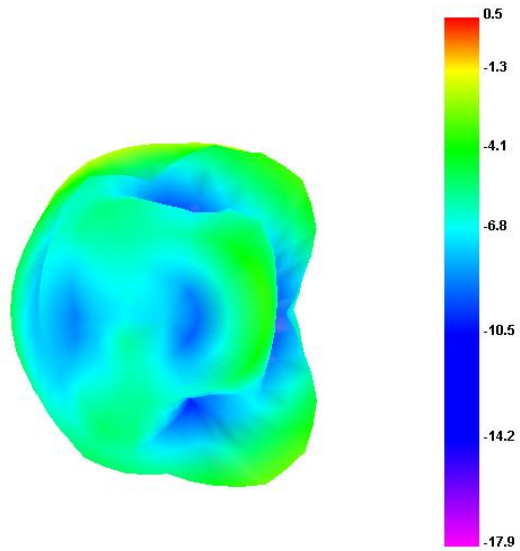


E2



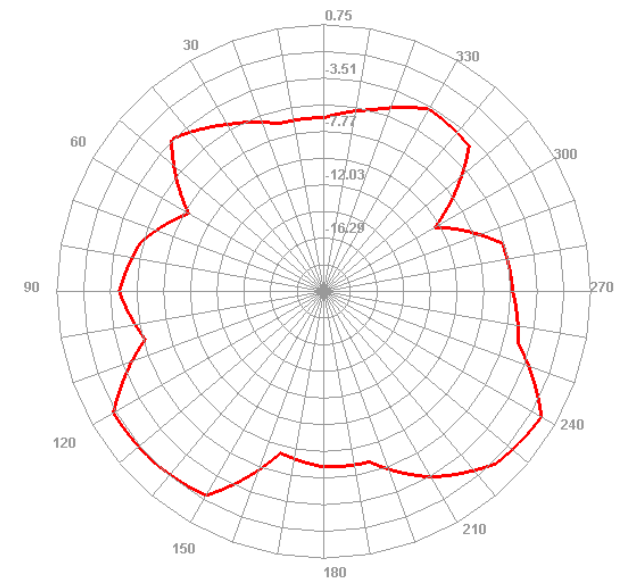
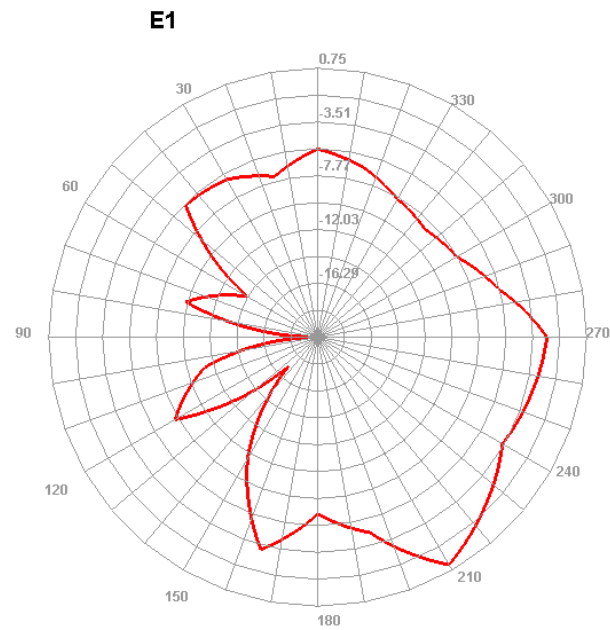
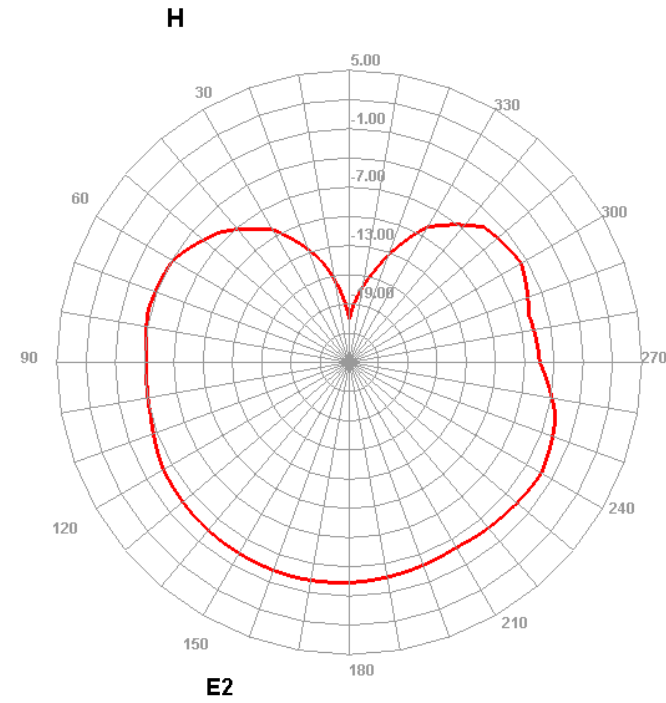
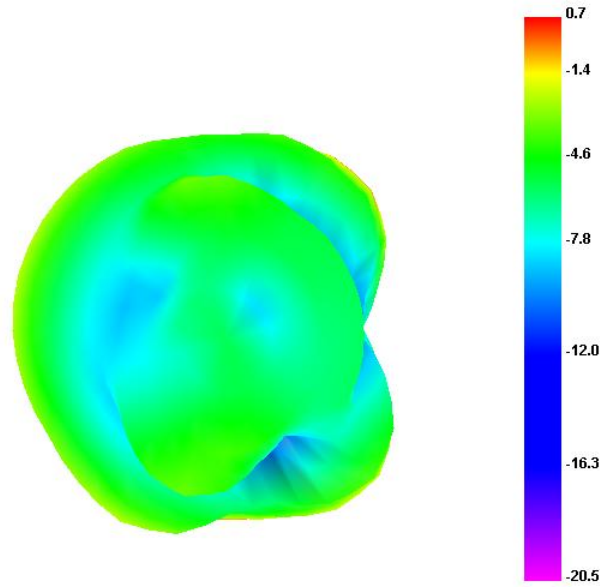
Efficient (GSM1800+LTE.B3 1710~1880Mhz)

Upper antenna



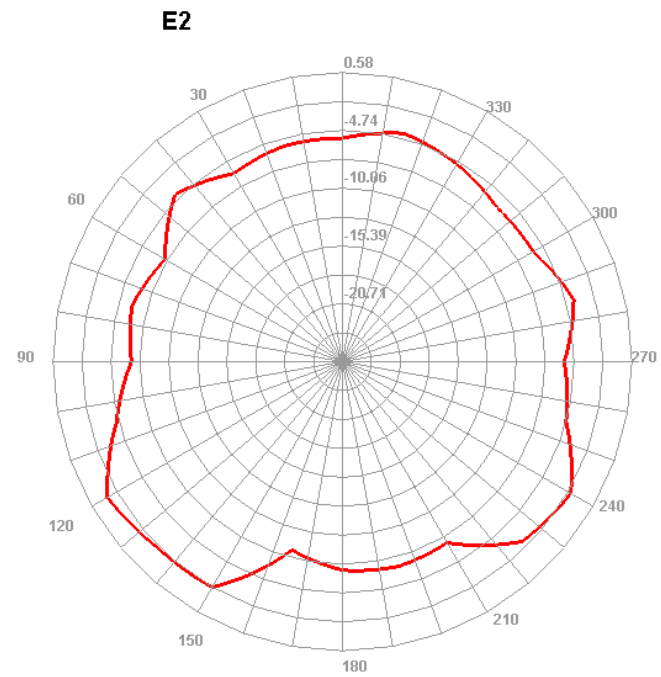
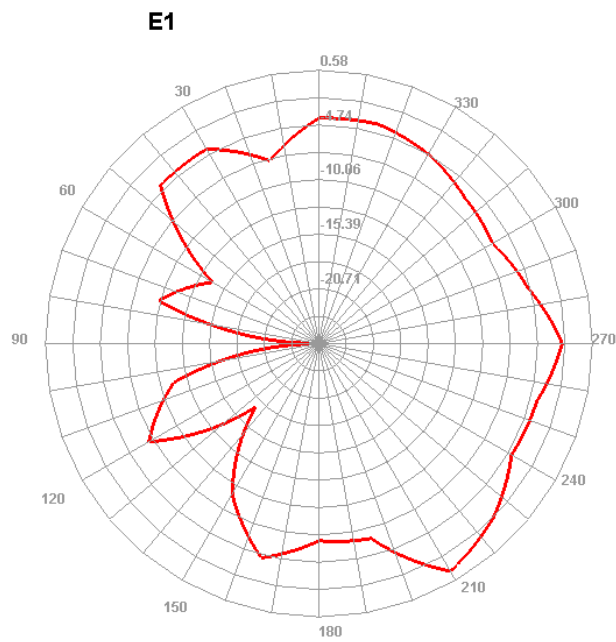
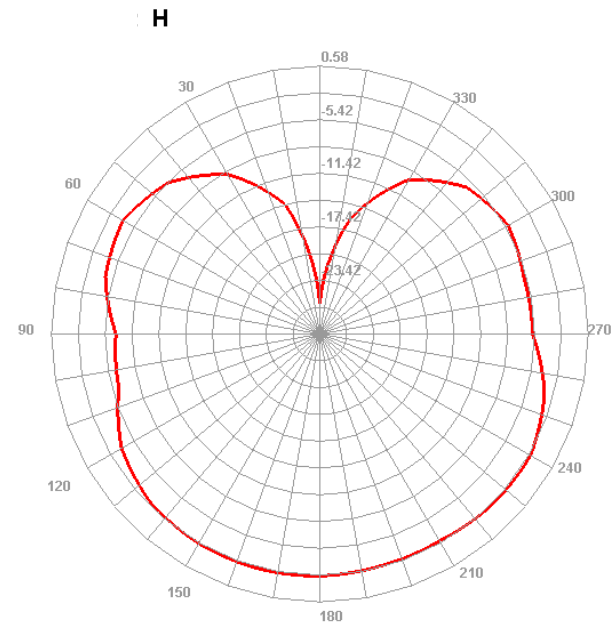
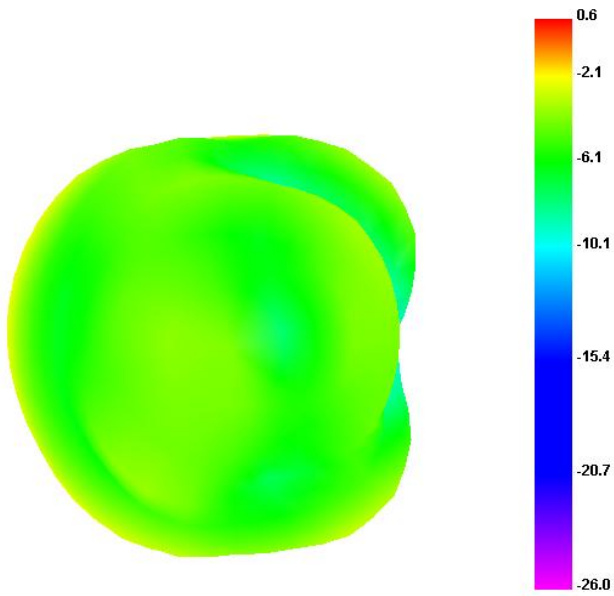
Efficient (GSM1900+W2+LTE.B2 1850~1990Mhz)

Upper antenna



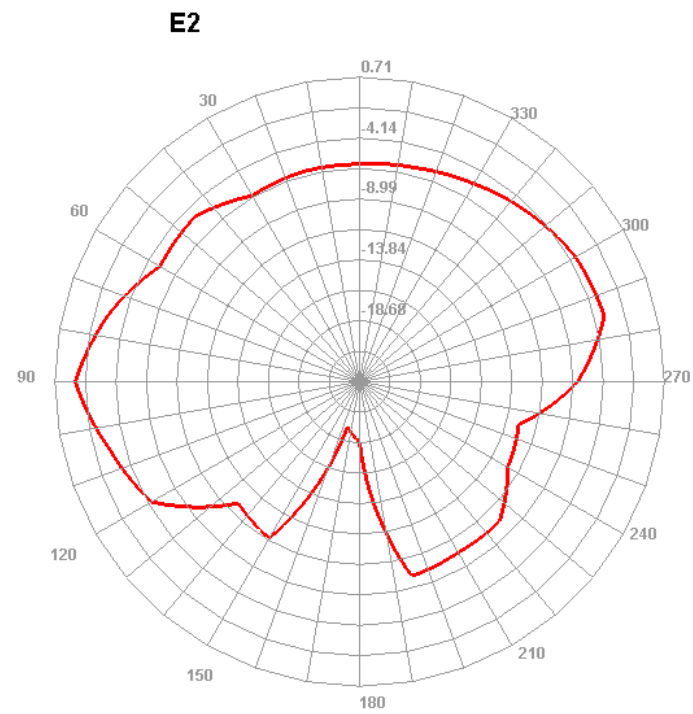
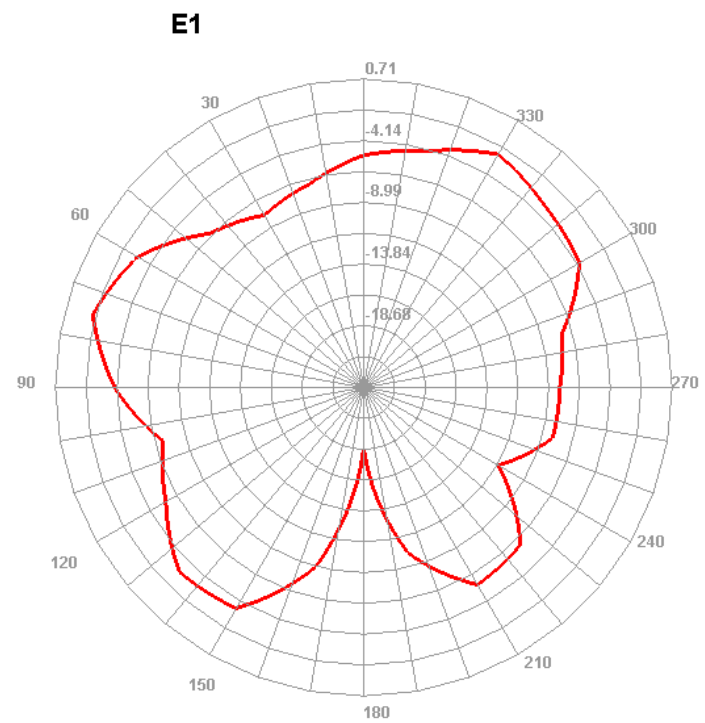
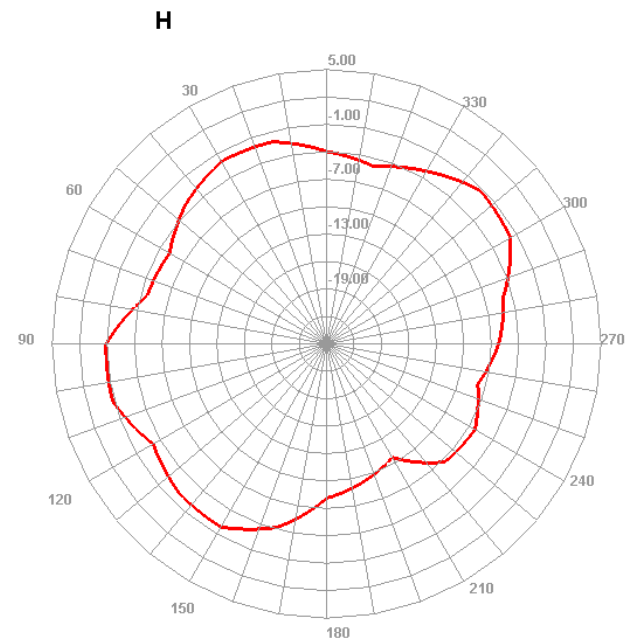
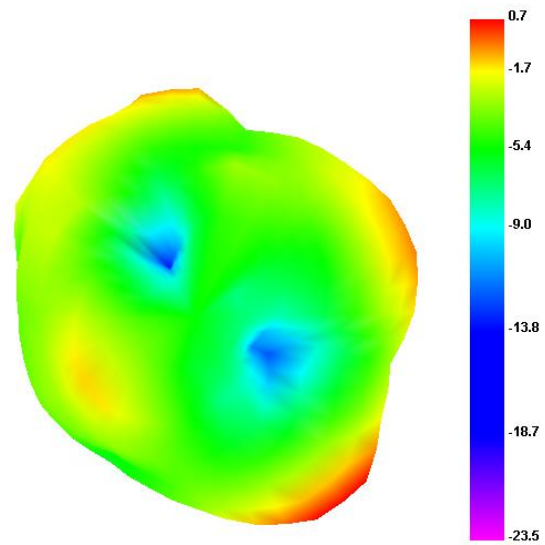
Efficient (W4+LTE.B4+B66 1711~2175Mhz)

Upper antenna



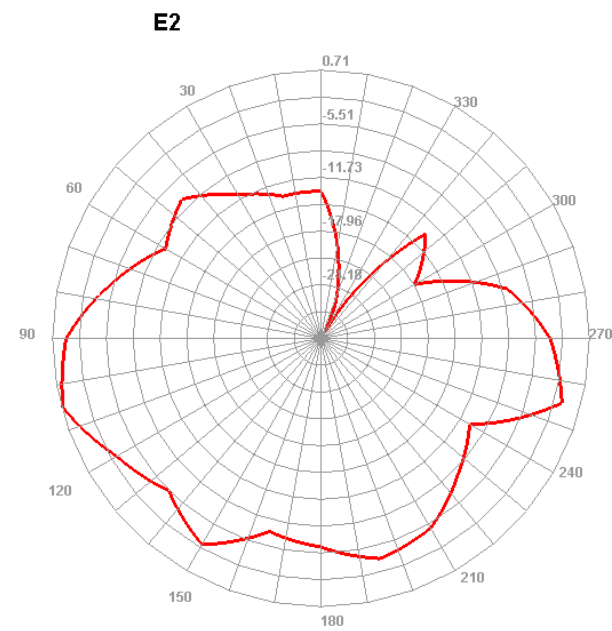
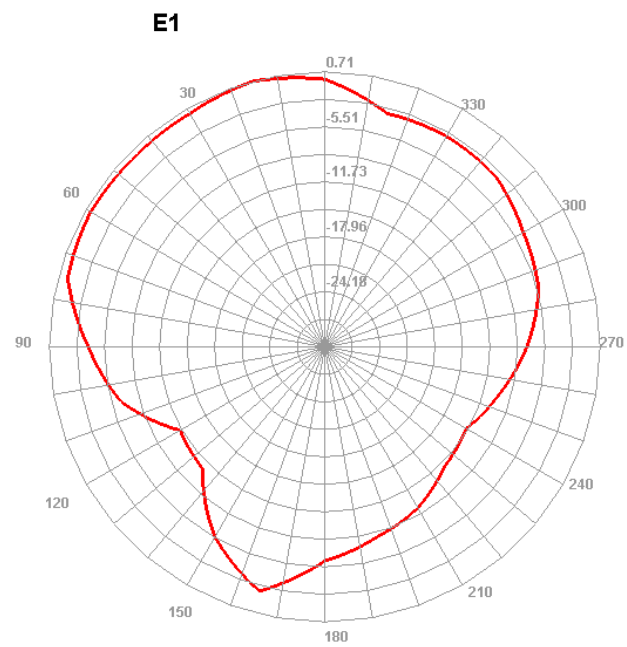
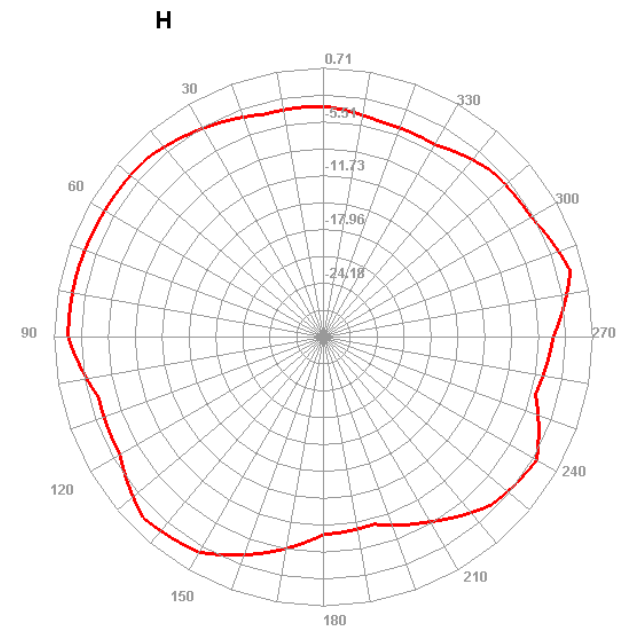
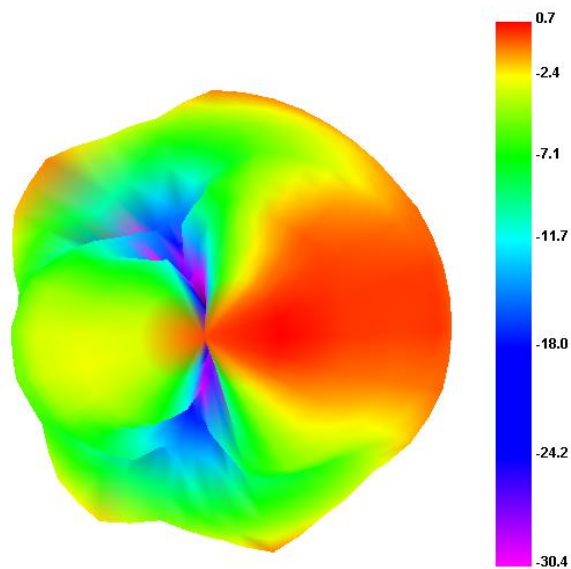
Efficient (W1~LTE:B1 1920~2170Mhz)

Upper antenna

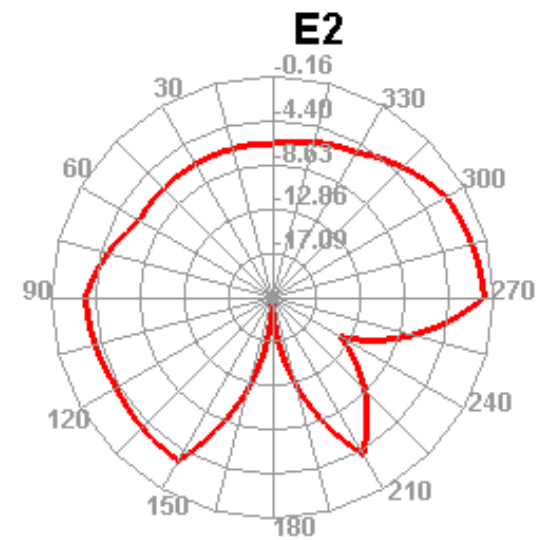
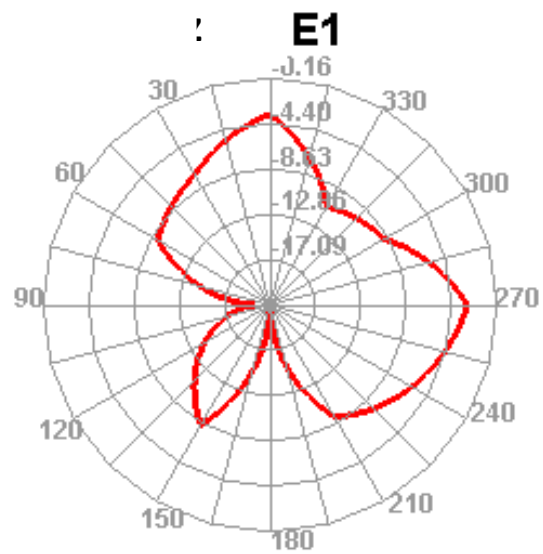
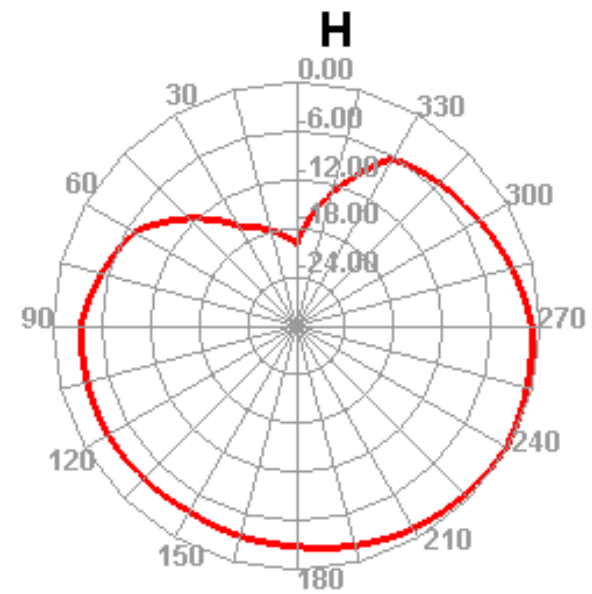
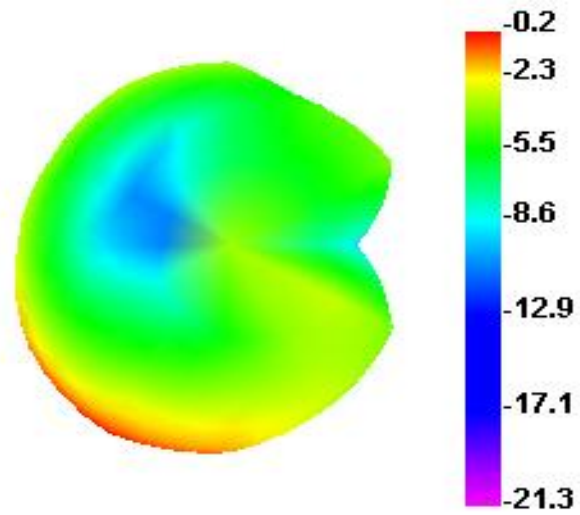


Efficient (LTE.B7 2500~2690Mhz)

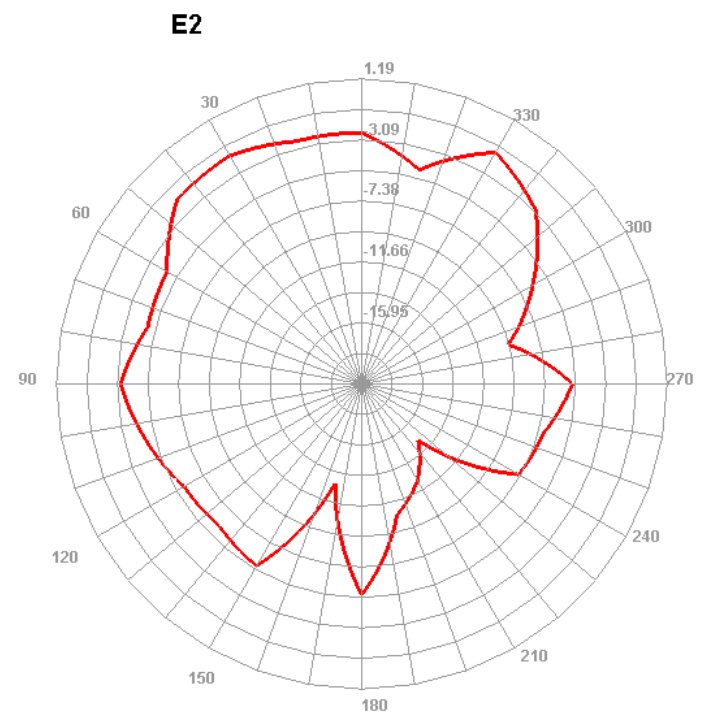
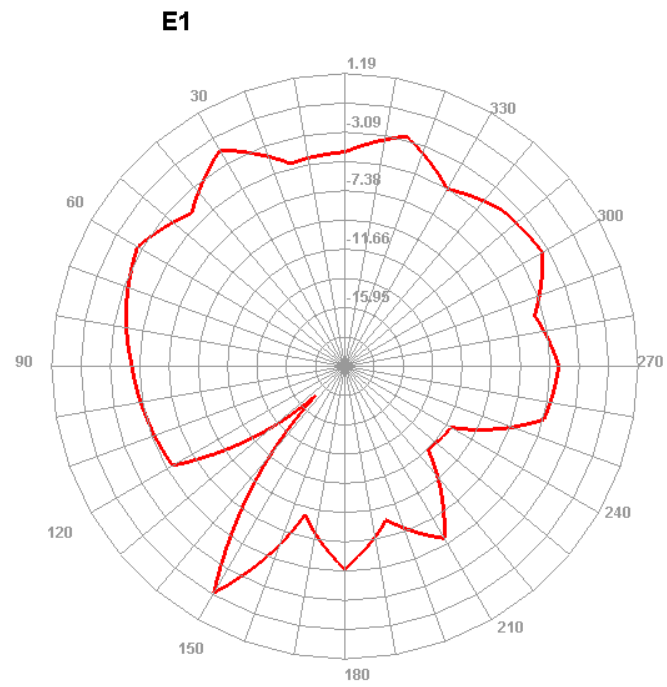
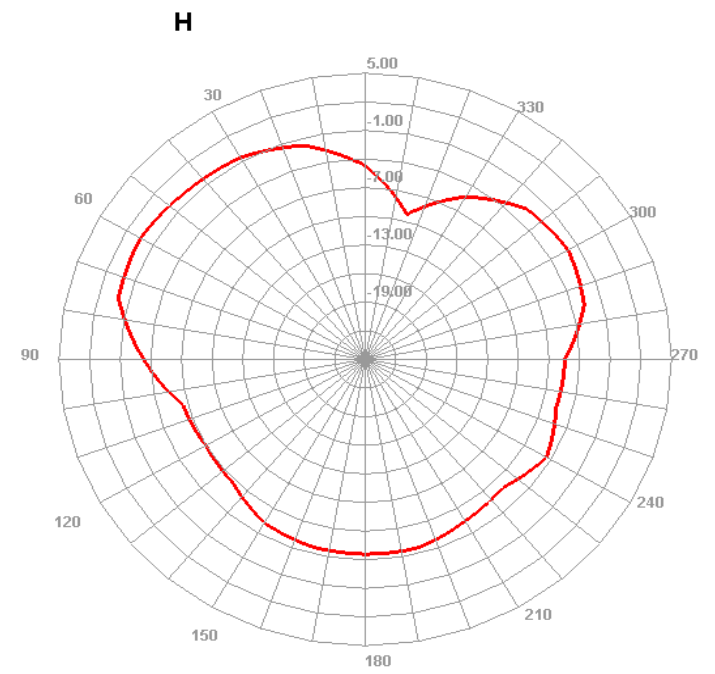
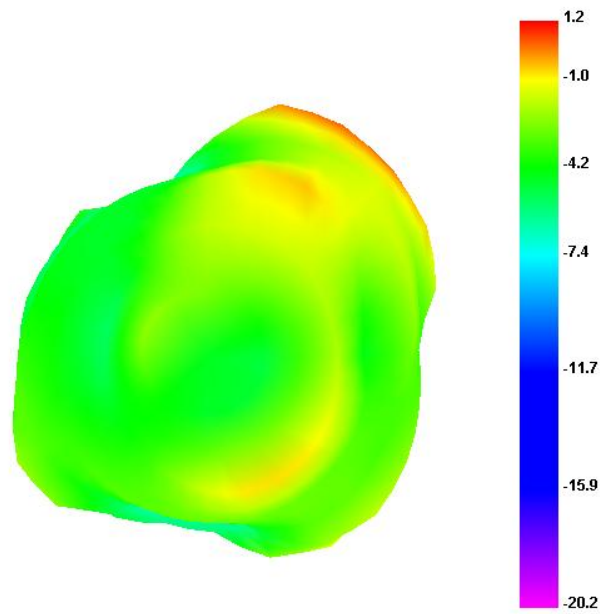
Upper antenna



Efficient (GPS 1575Mhz)



Efficient (2.4GWIFI/BT)



Efficient (5.8GWIFI)

