

深圳市红心科技电子有限公司

Shenzhen HongXin Technology Electronics Co.,Ltd.

产品承认书

SPECIFICATION FOR APPROVAL

公司名称: _____

品 名: _____ 25 双频 FPC 天线 _____

料 号: _____ HX-FPC25-5014-120B4 _____

客户料号: _____

规 格: _____ 详见规格书 _____

日 期: _____ 2023-07-01 _____

客户回签:

工 程 部	品 质 部	批 准

深圳市红心科技电子有限公司

工 程 部	品 质 部	批 准
庄伟峰	张欢	刘卢

一：天线参数

Design Specifications	Typical	Units
天线形式	FPC 天线	
工作频率 (working Frequency)	2400-5800	MHZ
增益(Gain)	3.7	DBi
天线效率 (Antenna efficiency)	35~80	%
电压驻波比 (VSWR)	<1.8	
极化方式 (Ploriaztion)	垂直极化	
辐射方向 (Radiation pattern)	全向	
馈电阻抗 (impedance)	50	ohm
功率容量 (Power handling)	33	dbm
天线接口 (Interface)	IPEX 4 代	
天线尺寸 (Overall dimensions)	50*14	mm
重量 (Weight)	无要求	
工作温度 (Operatin Temp)	-30-70	℃
储存温度 (Storing Temp)	-30-70	℃

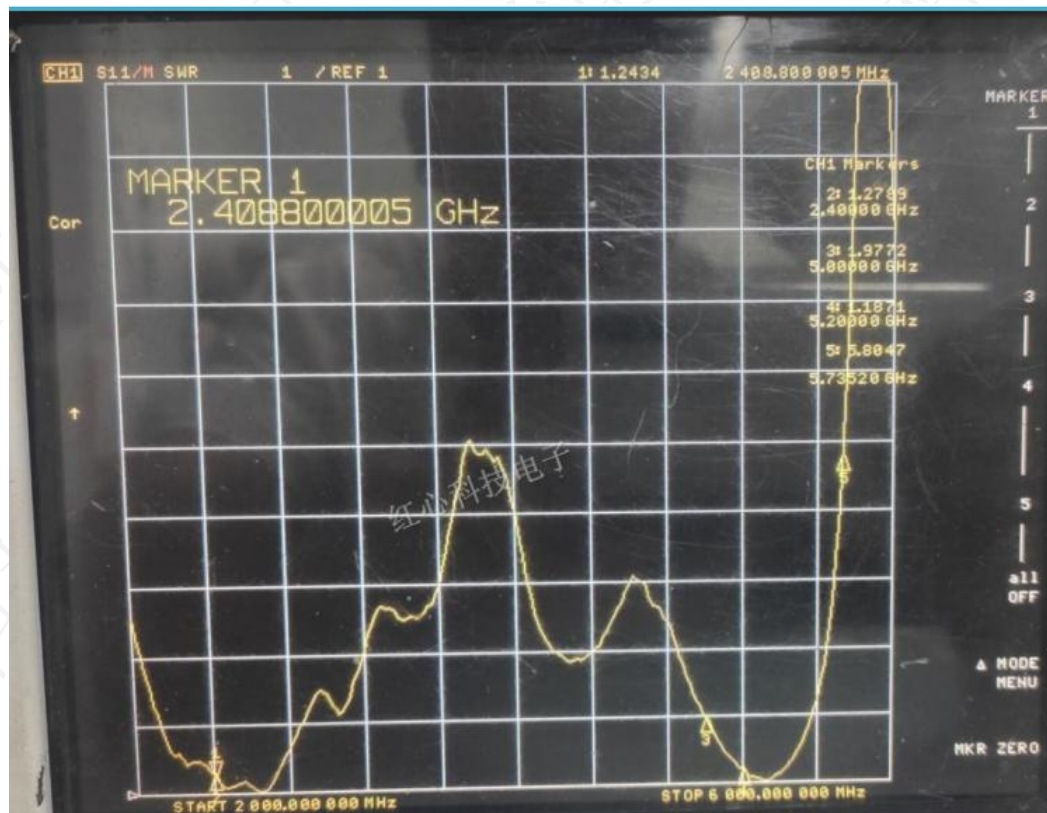
二：天线实物图



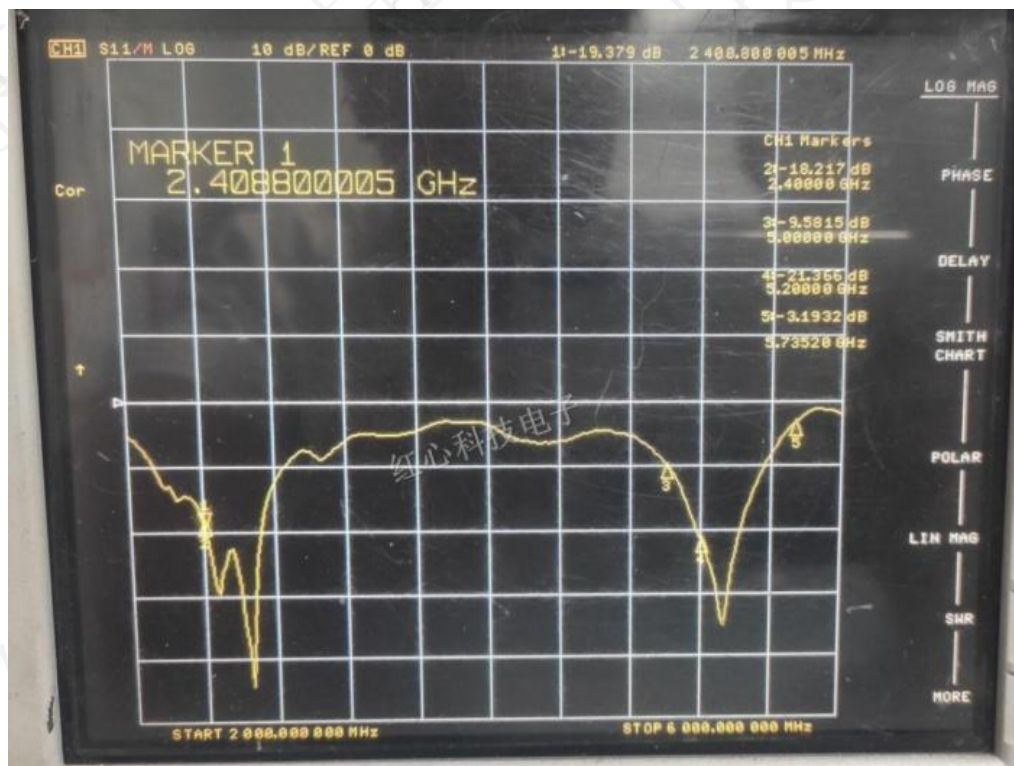
- 注：1. 天线参数是根据模拟环境测试，针对不同的产品会有性能偏差
2. 天线功能较为敏感，主体周边结构有变更请通知我们评估

三、VSWR（电压驻波比）/Return Loss（回波损耗）/Smith Chart（史密斯圆图）

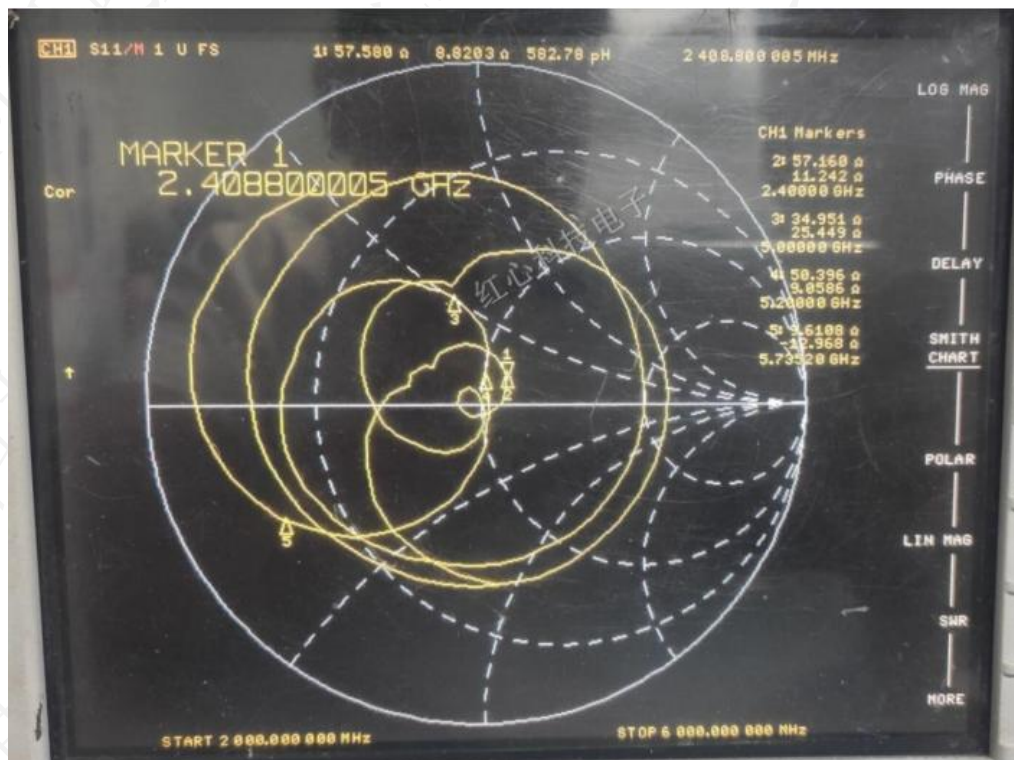
VSWR（电压驻波比）



Return Loss (回波损耗)



Smith Chart (史密斯圆图)

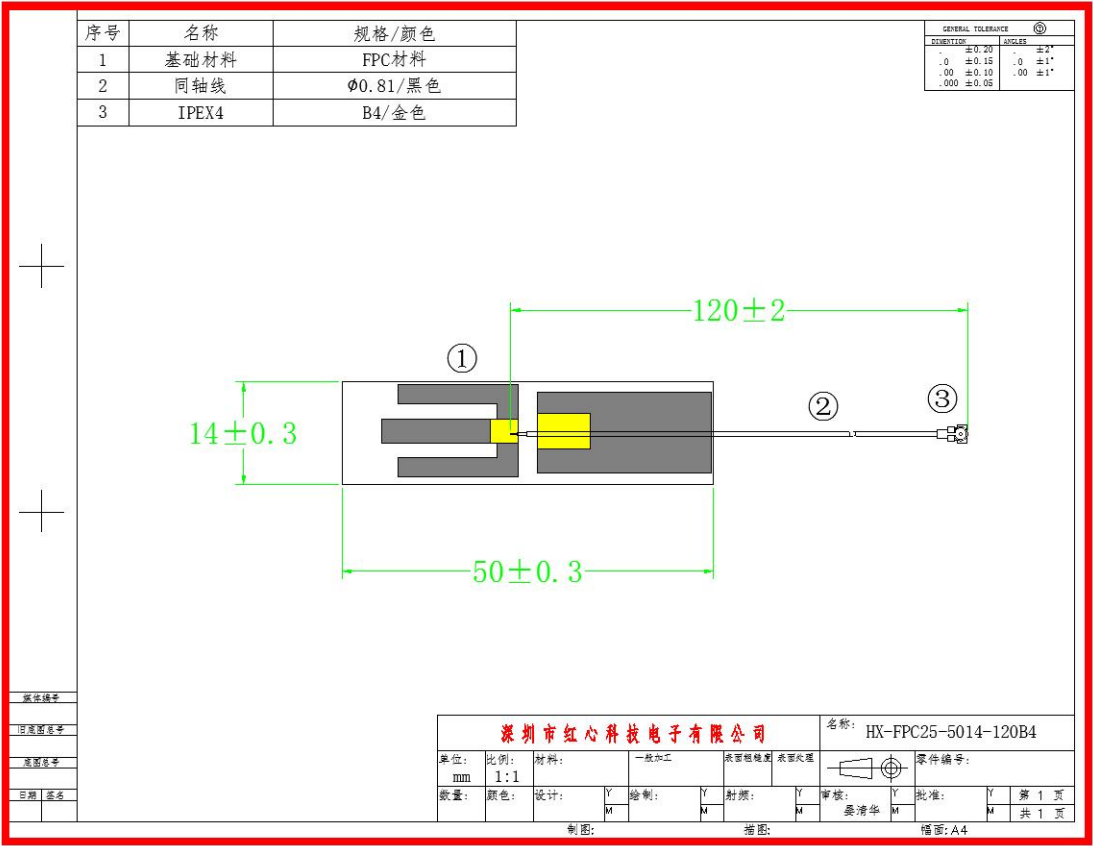


四：贮藏环境

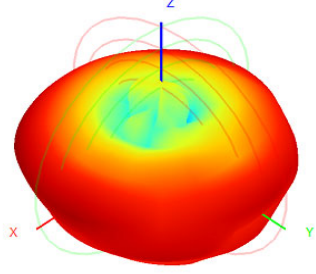
工作温度: -30 to 70° C

贮藏温度: -30 to 70° C

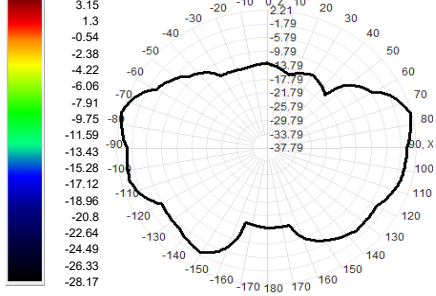
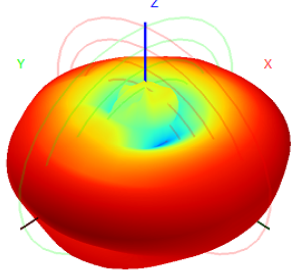
五：尺寸规格



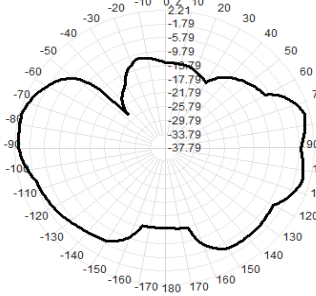
2100.0MHz H+V, Eff: 56.7%



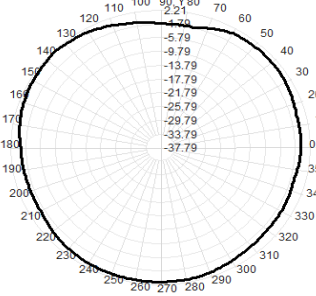
Back View



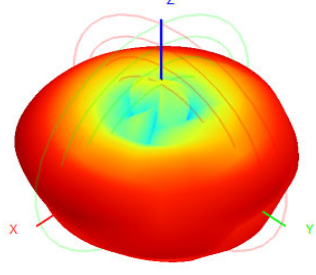
2100.0MHz Total(E2-YZ), Max= 1.52dBi



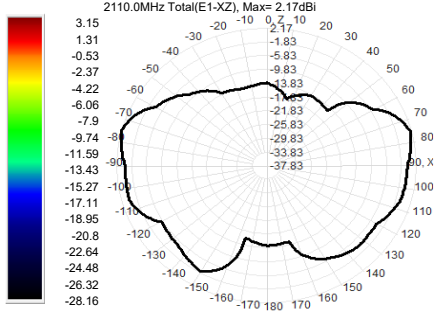
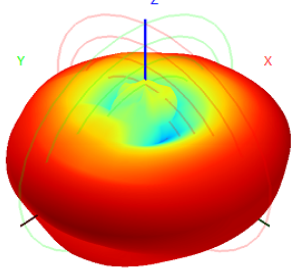
Total(H-XY), Max= 1.80dBi, CirD=3.55



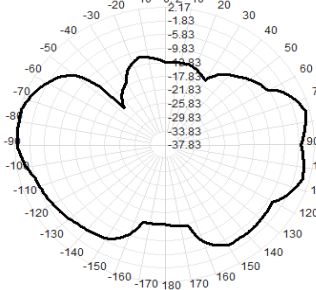
2110.0MHz H+V, Eff: 58.0%



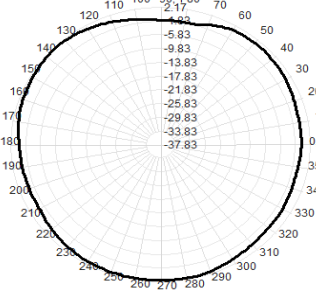
Back View



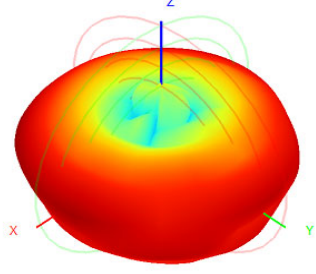
2110.0MHz Total(E2-YZ), Max= 1.62dBi



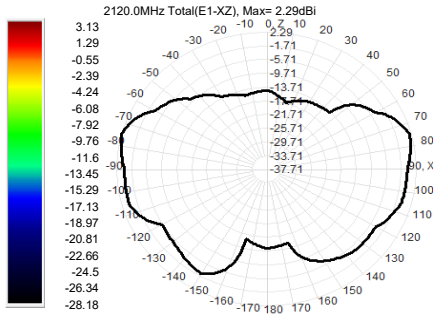
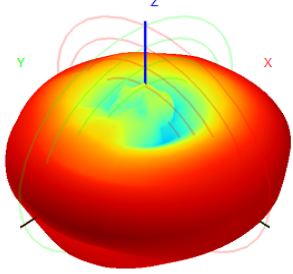
Total(H-XY), Max= 1.92dBi, CirD=3.59



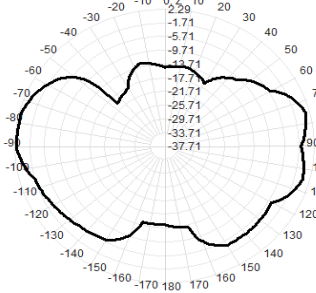
2120.0MHz H+V, Eff: 59.7%



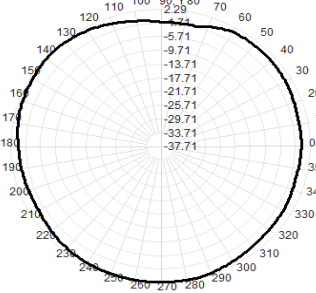
Back View



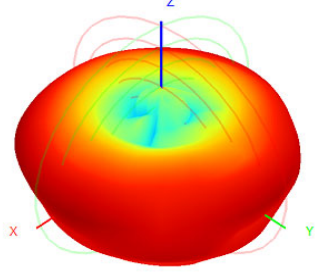
2120.0MHz Total(E2-YZ), Max= 1.80dBi



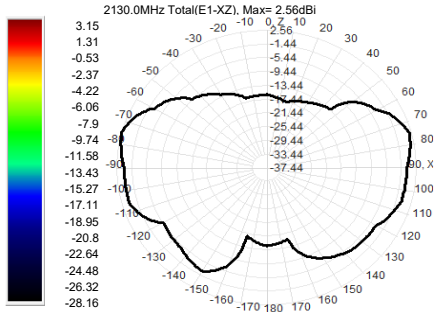
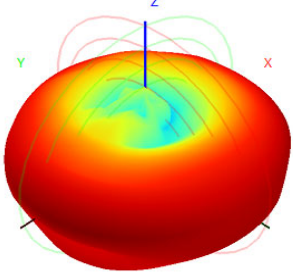
Total(H-XY), Max= 2.07dBi, CirD=3.58



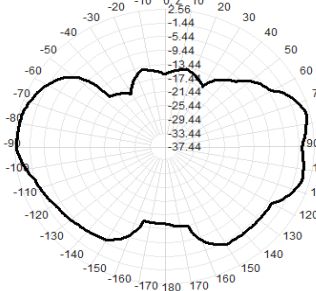
2130.0MHz H+V, Eff: 62.5%



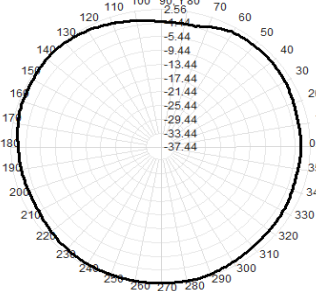
Back View



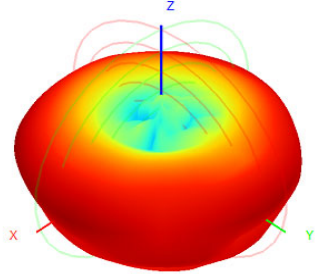
2130.0MHz Total(E2-YZ), Max= 2.08dBi



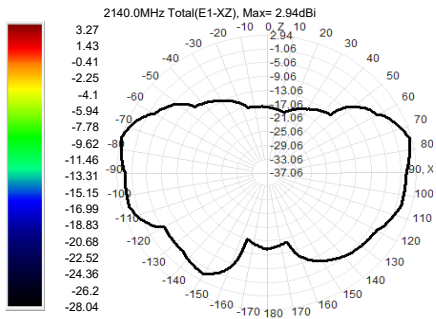
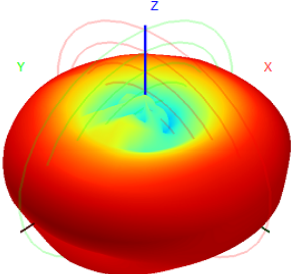
Total(H-XY), Max= 2.26dBi, CirD=3.47



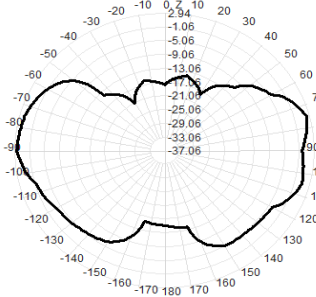
2140.0MHz H+V, Eff: 65.9%



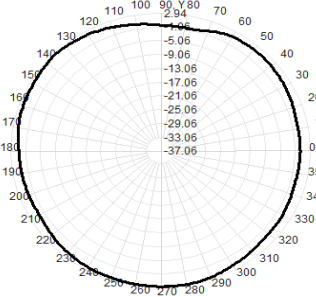
Back View



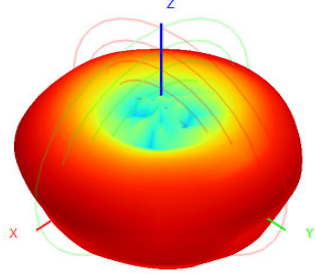
2140.0MHz Total(E2-YZ), Max= 2.27dBi



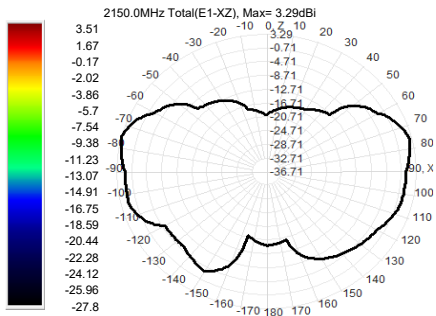
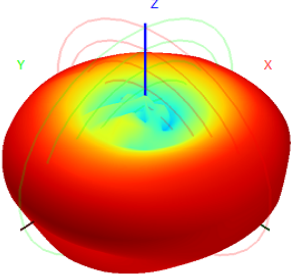
Total(H-XY), Max= 2.54dBi, CirD=3.36



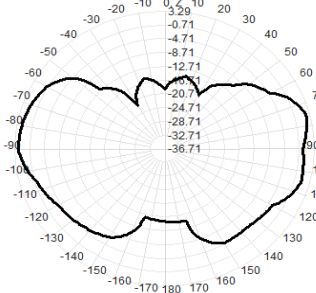
2150.0MHz H+V, Eff: 69.3%



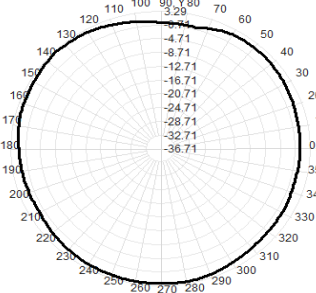
Back View



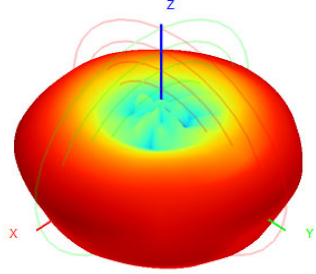
2150.0MHz Total(E2-YZ), Max= 2.34dBi



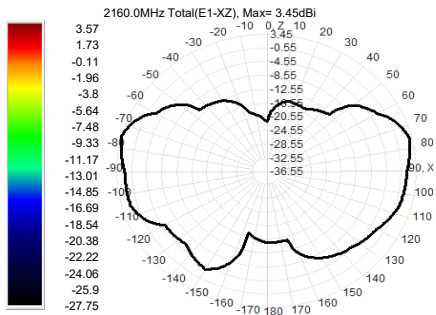
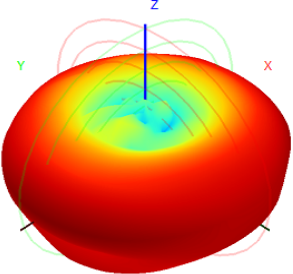
Total(H-XY), Max= 2.83dBi, CirD=3.10



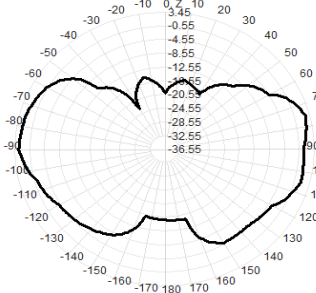
2160.0MHz H+V, Eff: 70.2%



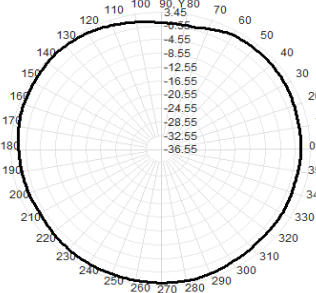
Back View



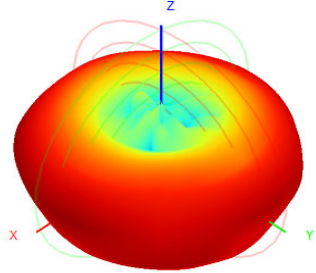
2160.0MHz Total(E2-YZ), Max= 2.29dBi



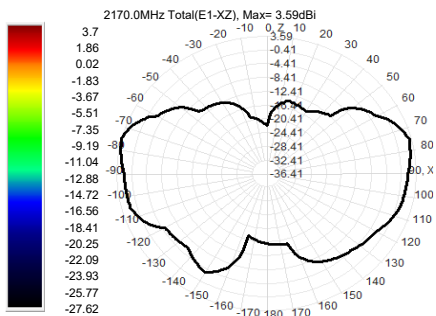
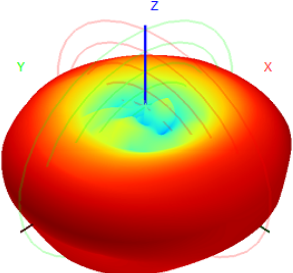
Total(H-XY), Max= 2.93dBi, CirD=2.85



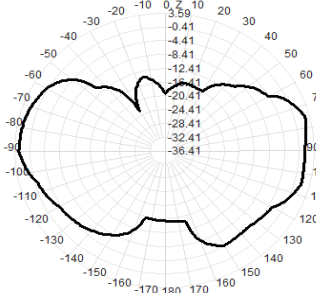
2170.0MHz H+V, Eff: 72.9%



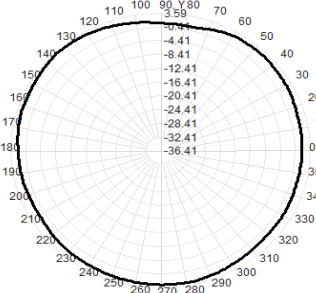
Back View

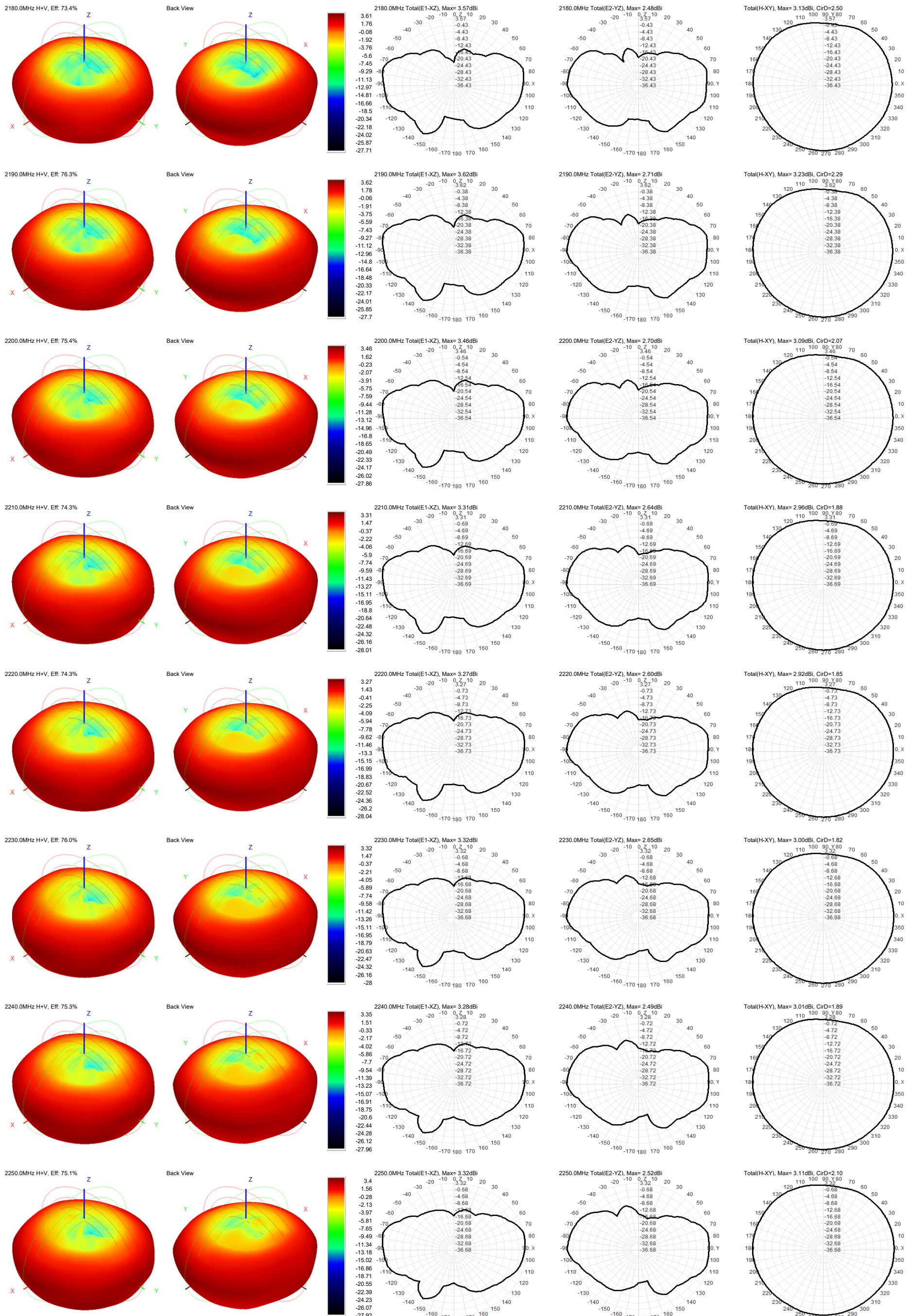


2170.0MHz Total(E2-YZ), Max= 2.41dBi

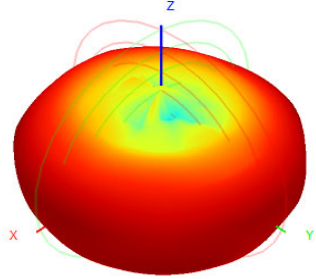


Total(H-XY), Max= 3.11dBi, CirD=2.65

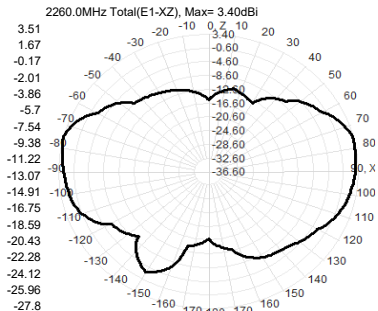
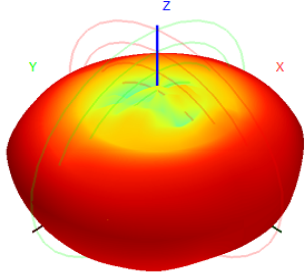




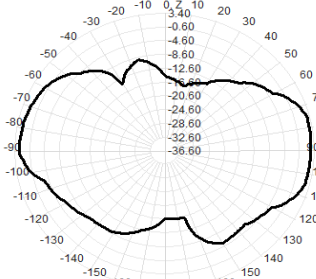
2260.0MHz H+V, Eff: 75.8%



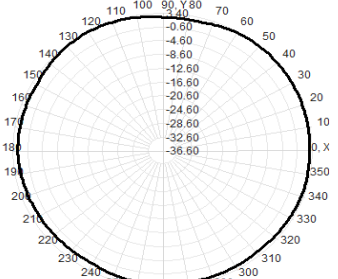
Back View



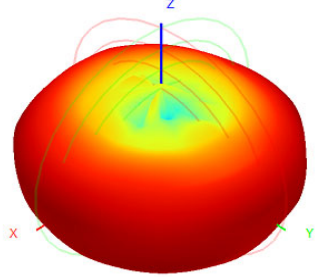
2260.0MHz Total(E2-YZ), Max= 2.48dBi



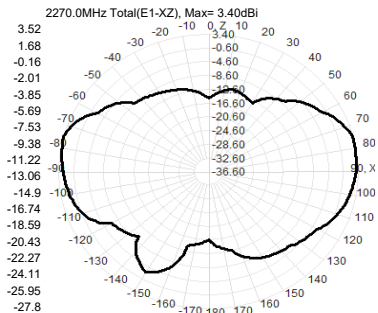
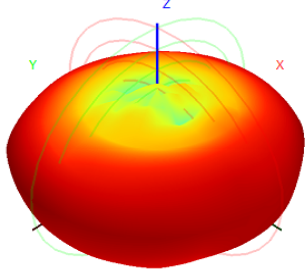
Total(H+V), Max= 3.25dBi, CirD=2.27



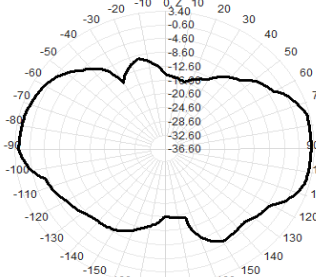
2270.0MHz H+V, Eff: 76.4%



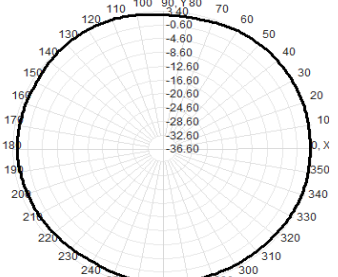
Back View



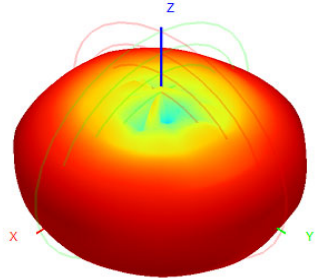
2270.0MHz Total(E2-YZ), Max= 2.37dBi



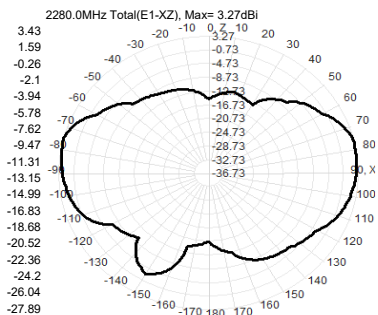
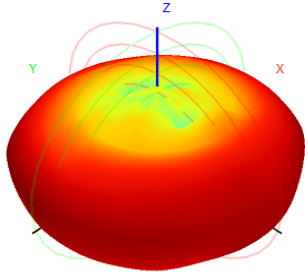
Total(H+V), Max= 3.32dBi, CirD=2.33



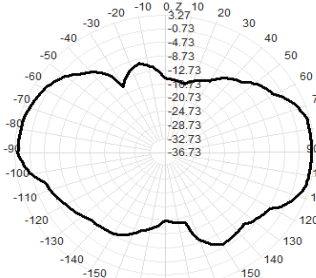
2280.0MHz H+V, Eff: 76.4%



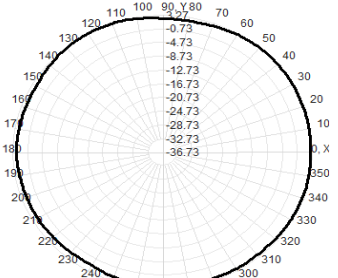
Back View



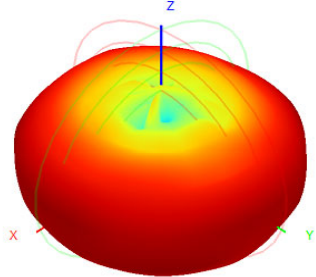
2280.0MHz Total(E2-YZ), Max= 2.33dBi



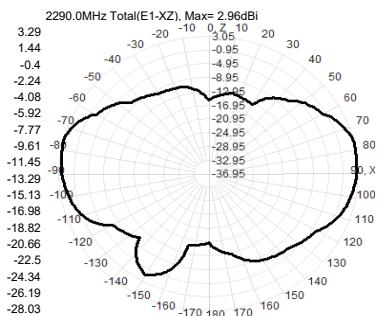
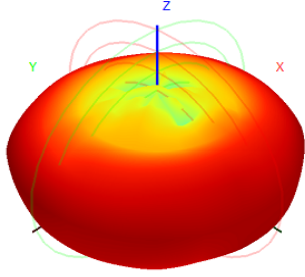
Total(H+V), Max= 3.21dBi, CirD=2.14



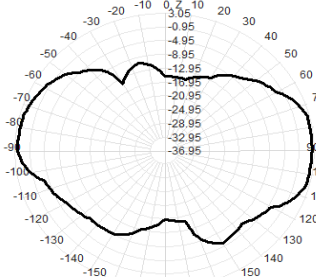
2290.0MHz H+V, Eff: 73.6%



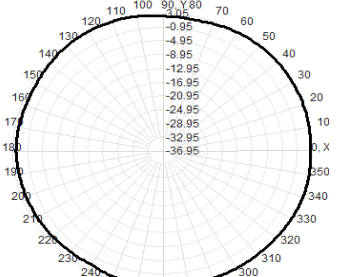
Back View



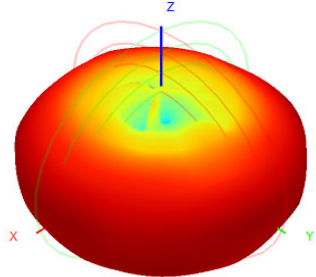
2290.0MHz Total(E2-YZ), Max= 2.29dBi



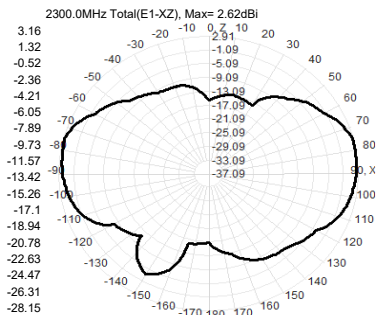
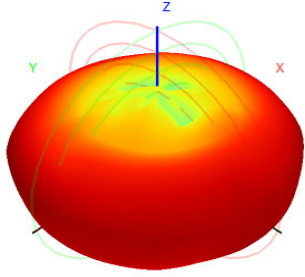
Total(H+V), Max= 3.05dBi, CirD=1.96



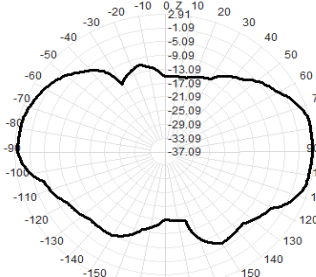
2300.0MHz H+V, Eff: 71.0%



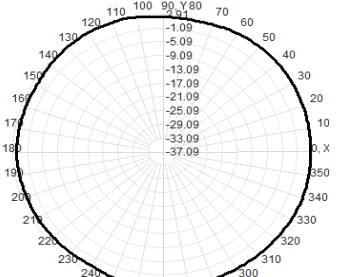
Back View



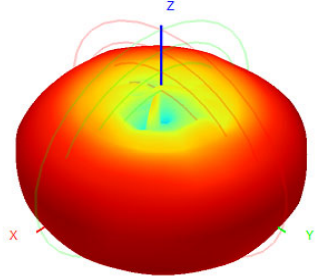
2300.0MHz Total(E2-YZ), Max= 2.27dBi



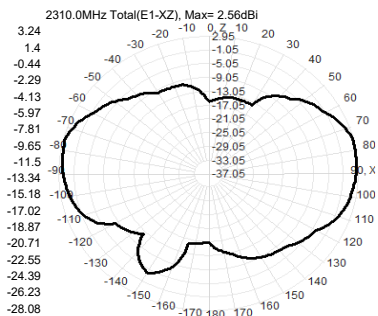
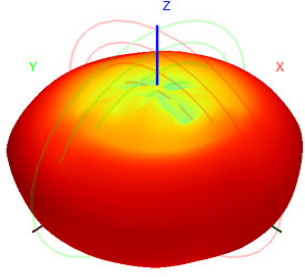
Total(H+V), Max= 2.91dBi, CirD=1.96



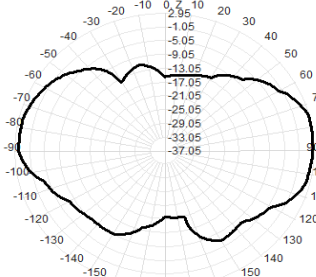
2310.0MHz H+V, Eff: 70.7%



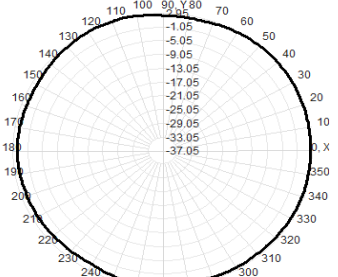
Back View



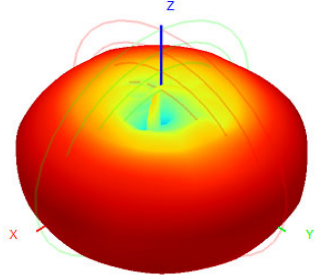
2310.0MHz Total(E2-YZ), Max= 2.51dBi



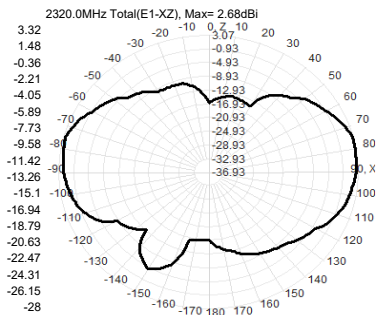
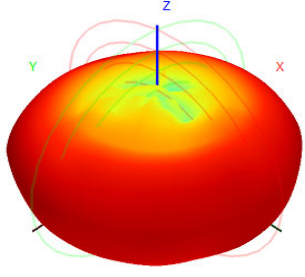
Total(H+V), Max= 2.95dBi, CirD=2.14



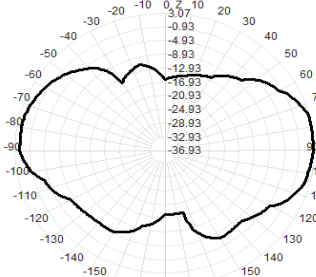
2320.0MHz H+V, Eff: 70.8%



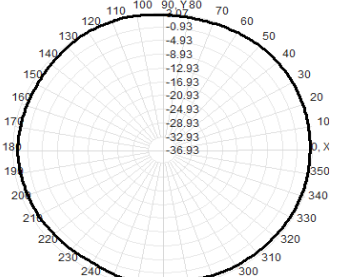
Back View



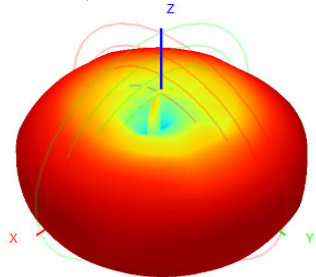
2320.0MHz Total(E2-YZ), Max= 2.59dBi



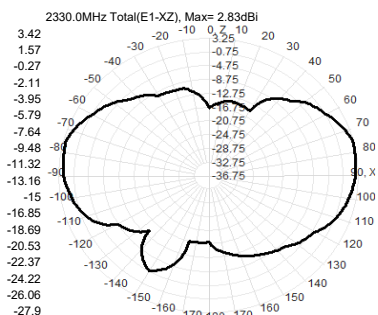
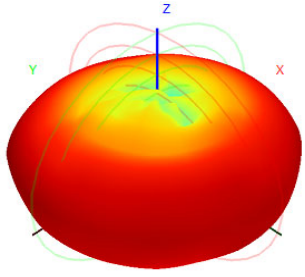
Total(H+V), Max= 3.07dBi, CirD=2.44



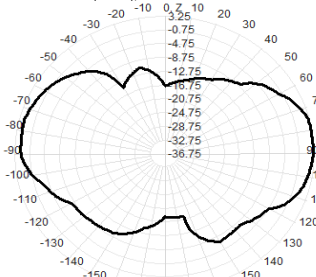
2330.0MHz H+V, Eff: 71.6%



Back View



2330.0MHz Total(E2-YZ), Max= 2.70dBi



Total(H+V), Max= 3.25dBi, CirD=2.67

