



深圳市迪比通通讯设备有限公司

SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

移动通信终端天线

Mobile communication terminal antenna

产品设计与制造规格书

Product design and manufacturing specifications

◆ 客户名称/ Customer: 中磁 /ZHONGCI

◆ 项目名称/Project: Z91M-A

◆ 物料名称/Name: 天线 /ANTENNA

弹片 ☐

FPC ☒

支架 ☐

漆包线 ☐

同轴线 ☒

◆ 物料编号/Part no: B. MK. 0040038/B. MK. 0040039/B. MK. 0040040

◆ 客户确认签章/Approved:

Gawiechen

地址/Add: 深圳市南山区西丽镇平山一路 /Pingshan 1st Road, Xili Town, Nanshan District, Shenzhen

电话/Tel: 86-755-83763273

传真/Fax: 86-755-83763348

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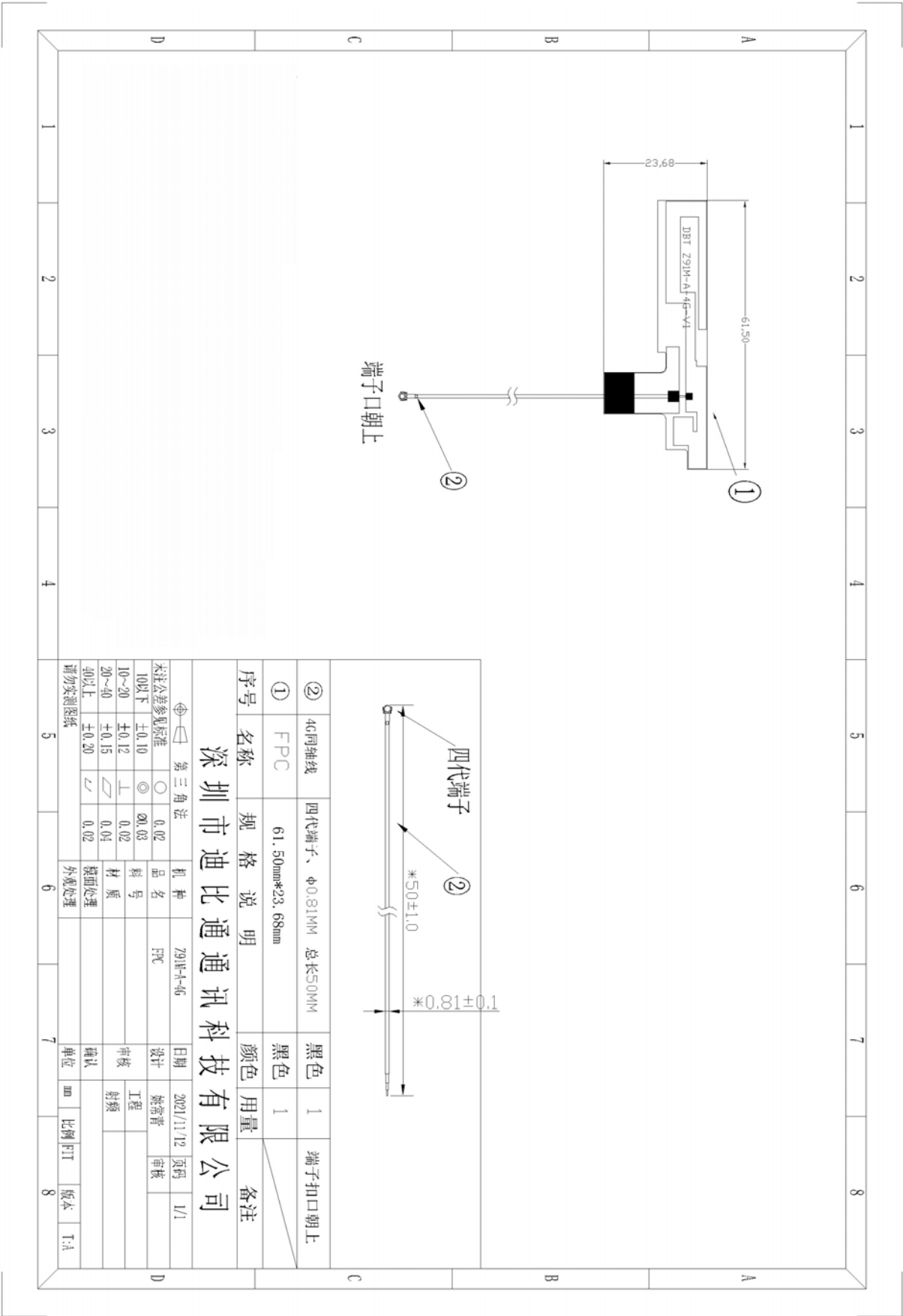
2.技术指标 /Technical indicators

3.动态测试数据 /Dynamic test data

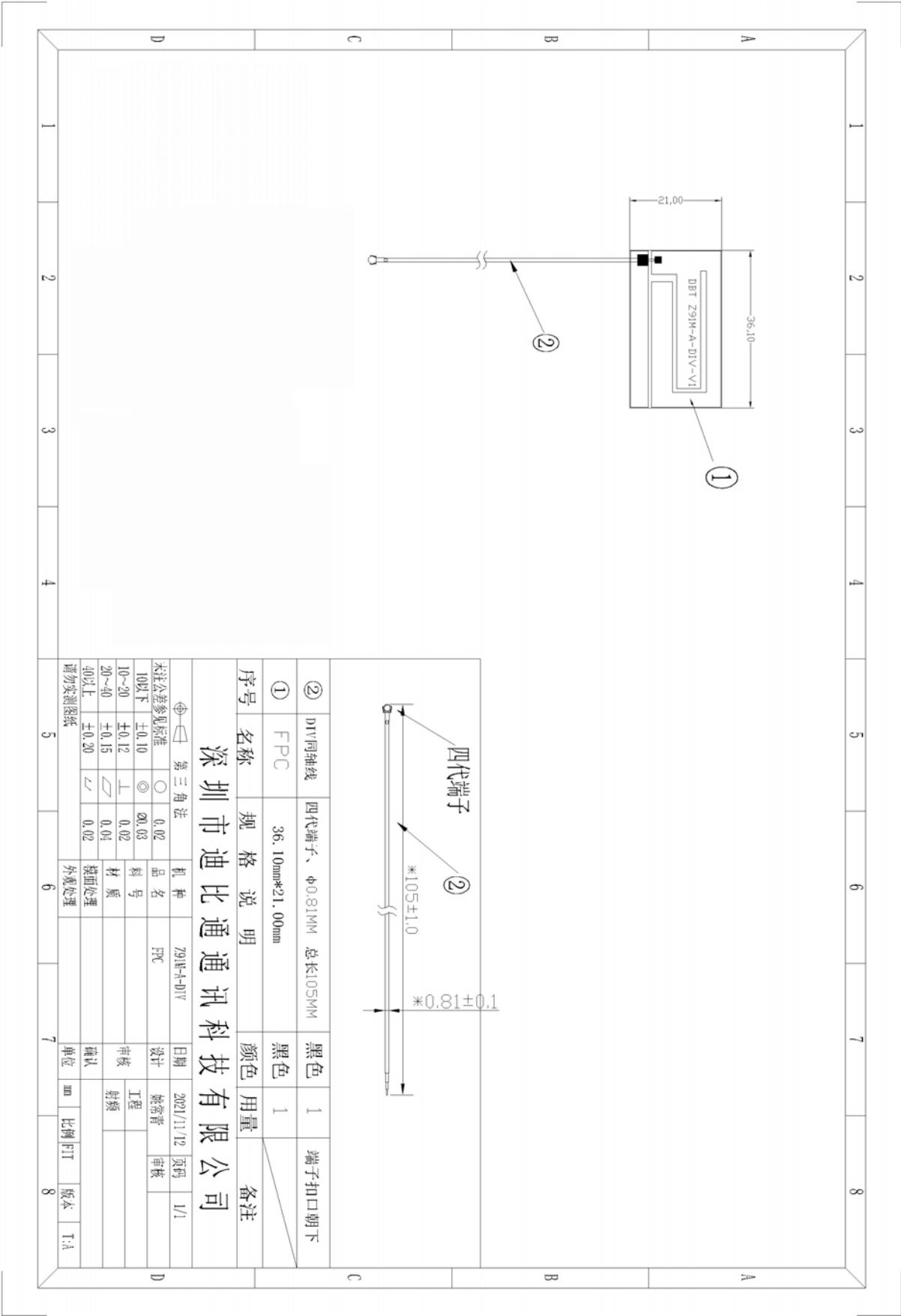
4.环境处理 /Environmental treatment

5.天线实际测试数据 /Antenna Test Data

1. 天线成品图 Antenna finished product 234G ANTENNA



Antenna finished product BT/WIFI ANTENNA

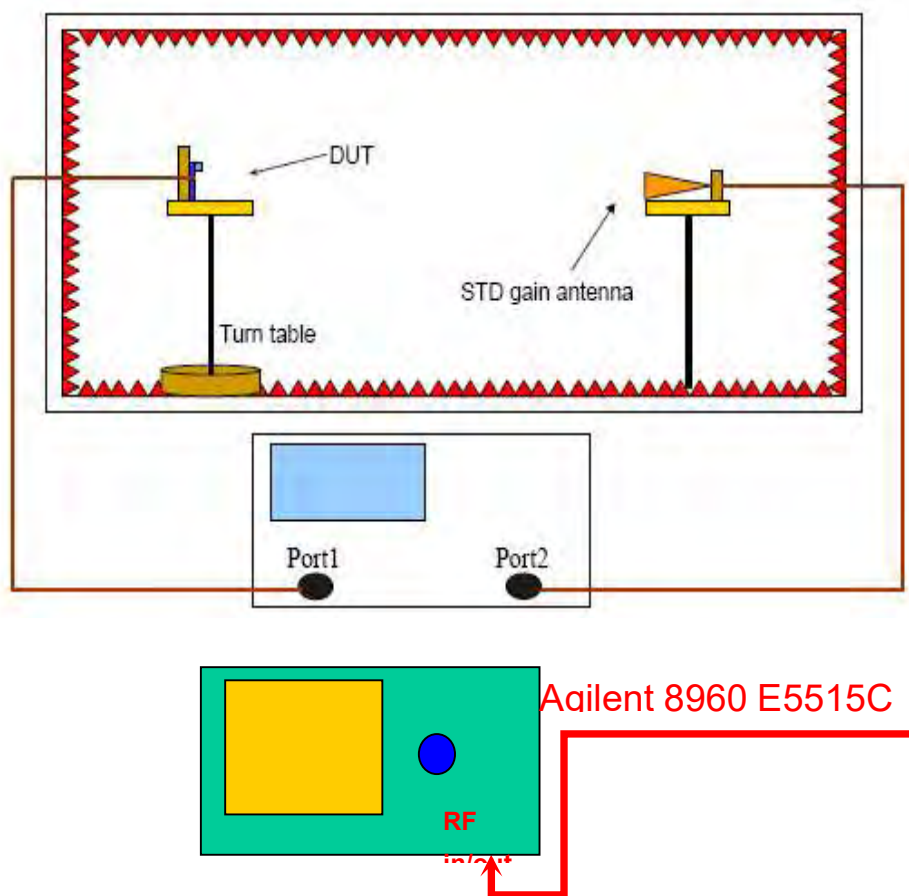


2.技术指标 /Technical indicators

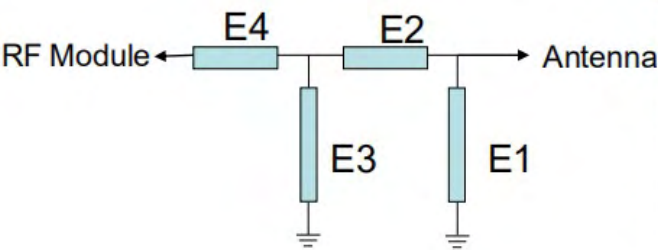
A. 电气性能 Electrical properties	
工作频率范围 Operating frequency range	824 ~ 960 MHz 1710 ~ 2690 MHz 2400 ~ 2500 MHz
驻波比 standing wave ratio	824 ~ 960 MHz: < 3.5 1710~2690MHz:<3.5 2400~2500MHz:<3.5
天线增益 Antenna gain	824 ~ 960 MHz: 2.0 dBi ± 0dBi 1710 ~ 2690 MHz: 2 dBi ± 0dBi 2400 ~ 2550 MHz: 2 dBi ± 0dBi
辐射效率 Radiation efficiency	824 ~ 960 MHz : > 30 % 1710 ~ 2690 MHz: > 35 % 2400 ~ 2500 MHz: > 40 %
阻抗 impedance	50 ohm
B. 材料 Material	
FPC+cable	
C. 环境 environment	
工作温度 Operating temperature	- 30 °C ~ + 85 °C
储藏温度 storage temperature	- 30 °C ~ + 85 °C

3.动态测试数据 /Dynamic test data

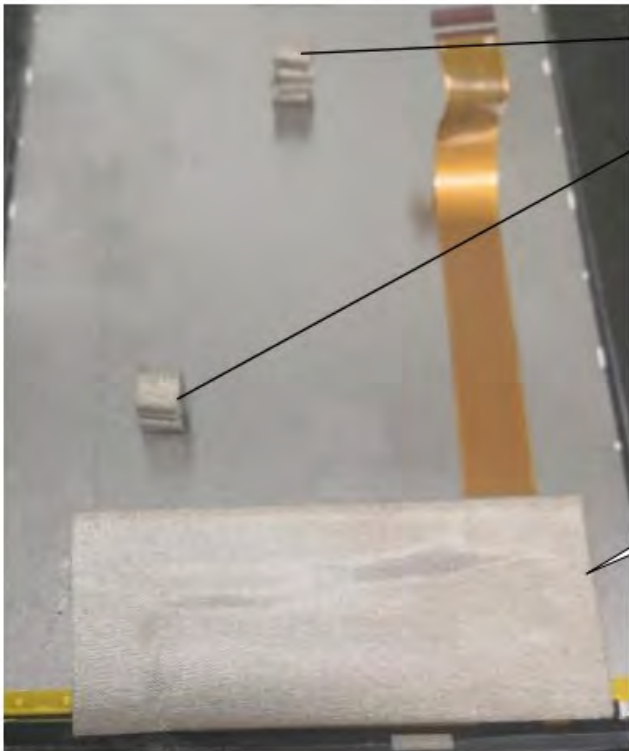
测试仪器: **Agilent 8960 E5515B+ Shield Box**



4. 环境处理 /Environmental treatment



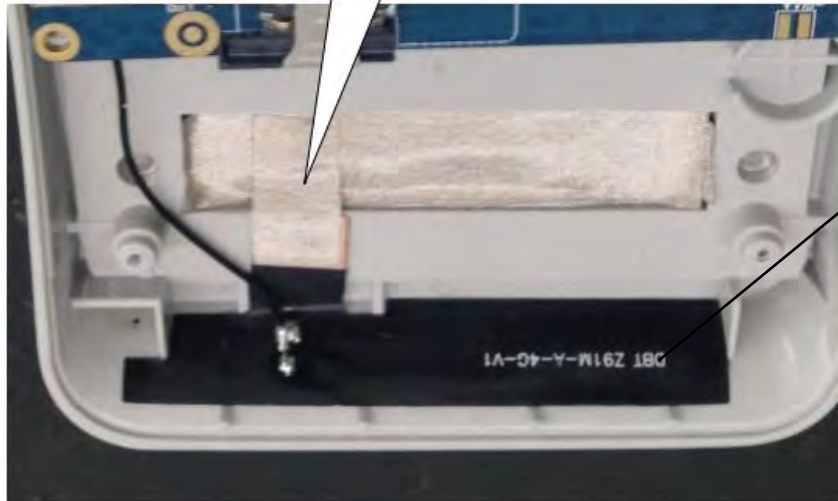
Element	MAIN (主天线)	GPS/WIFI/BT (三合一天线)	DIV (分集天线)
E1(0201)	N/A		
E2(0201)	0Ω		
E3(0201)	N/A		
E4(0201)	0Ω		



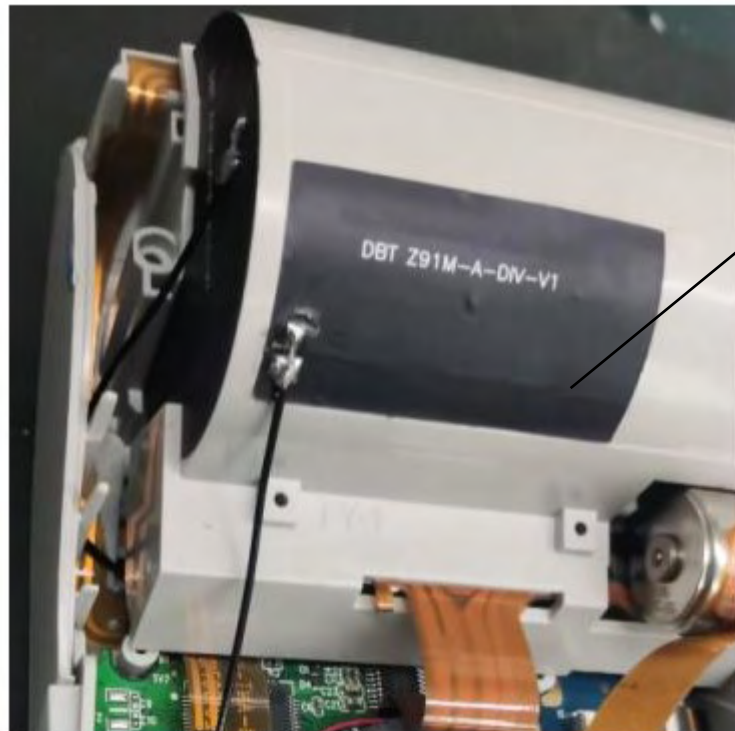
GND

GND

4G grounding conductive cloth



4G antenna 1



BT/WIFI ANTENNA 2

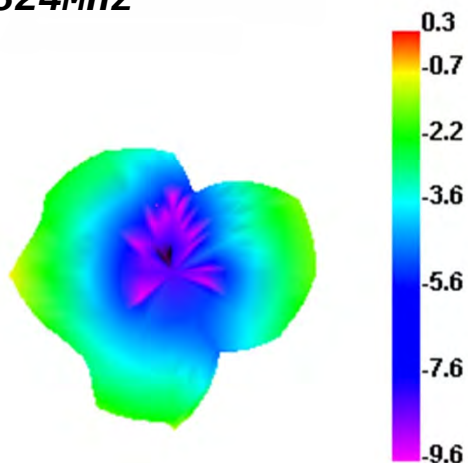
5. 天线实际测试数据 /Antenna Test Data

OTA Data ANT1											
Band	Mode	Ch	TRP	TIS	Gain	Band	Mode	Ch	TRP	TIS	Gain
GSM850	Freq. Space	L	24.35	-15.26	1.171	LTE BAND 2	Freq. Space	L	18.14	-18.62	1.957
		H	23.12	-10.63	1.996			H	17.61	-16.95	1.997
GSM1900	Freq. Space	L	25.68	-18.62	2.002	LTE BAND 4	Freq. Space	L	16.37	-13.67	2.006
		H	24.97	-14.25	1.897			H	15.15	-15.29	1.975
WCDMA BAND2	Freq. Space	L	25.62	-15.21	1.992	LTE BAND 5	Freq. Space	L	17.62	-19.85	2.003
		H	25.31	-18.36	2.001			H	17.51	-20.57	1.859
WCDMA BAND4	Freq. Space	L	25.33	-18.62	1.669	LTE BAND 7	Freq. Space	L	13.24	-16.35	1.998
		H	25.17	-15.22	1.995			H	13.15	-15.19	1.689
WCDMA BAND5	Freq. Space	L	17.67	-16.96	1.999	LTE BAND 17	Freq. Space	L	15.61	-16.11	2.003
		H	17.37	-13.33	1.674			H	15.26	-19.35	1.947

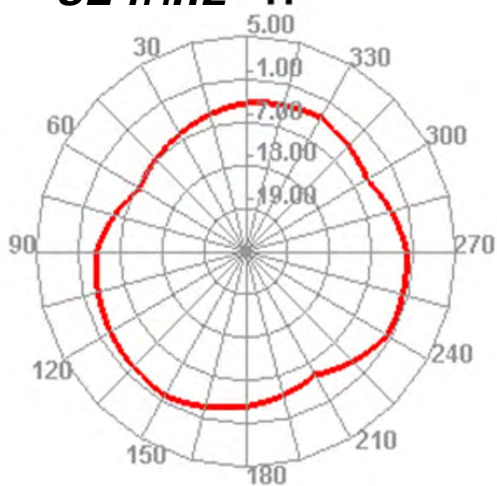
OTA Data ANT2											
Band	Mode	Ch	TRP	TIS	Gain	Band	Mode	Ch	TRP	TIS	Gain
2400-2500	Freq. Space	L	16.24	-15.24	1.996						
		H	15.87	-16.25	1.958						
5100-5250	Freq. Space	L	16.25	-22.18	2.001						
		H	16.34	-24.67	1.957						

ANTENNA 1

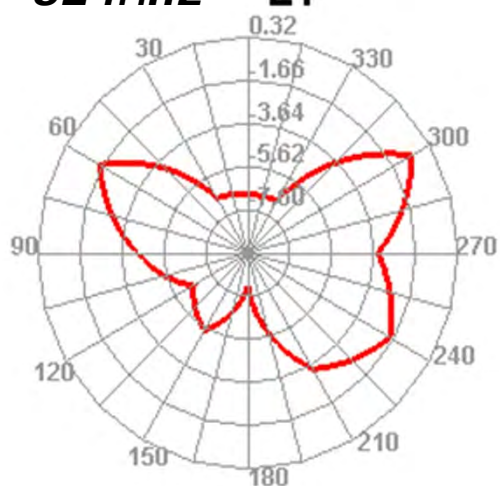
824MHz



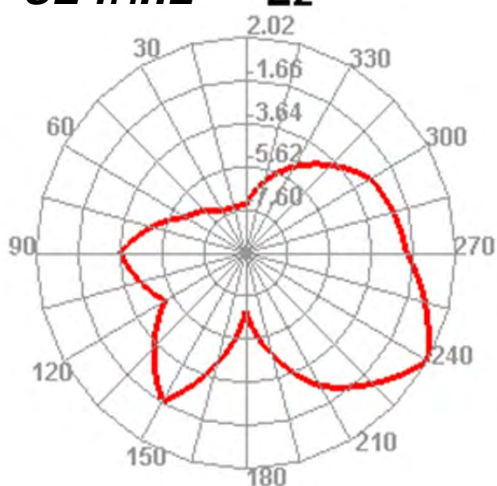
824MHz H



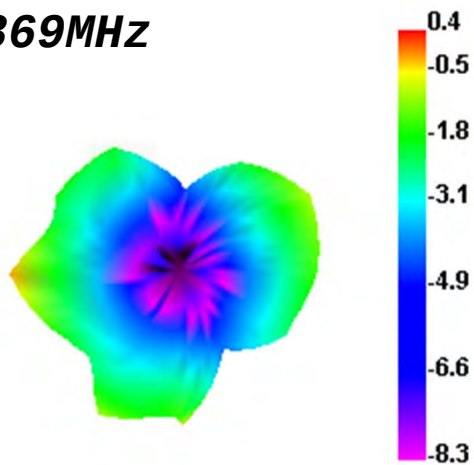
824MHz E1



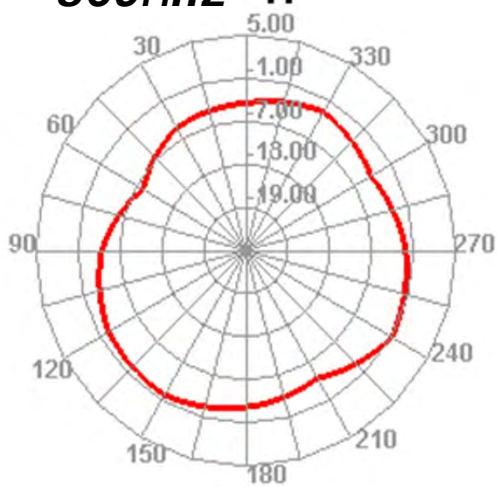
824MHz E2



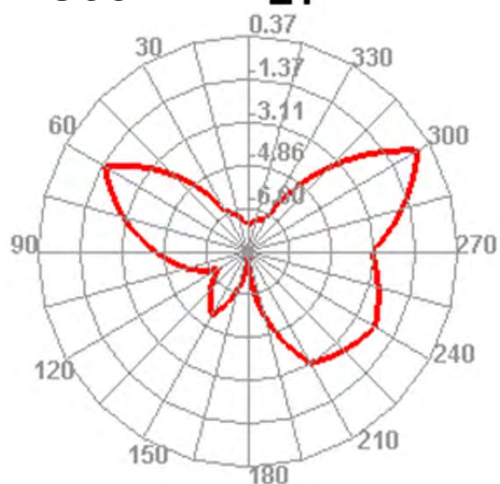
869MHz



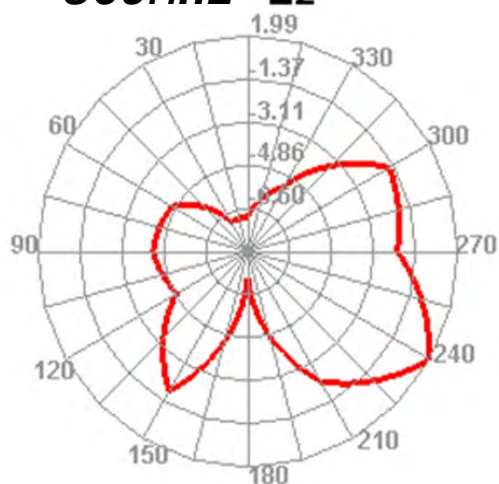
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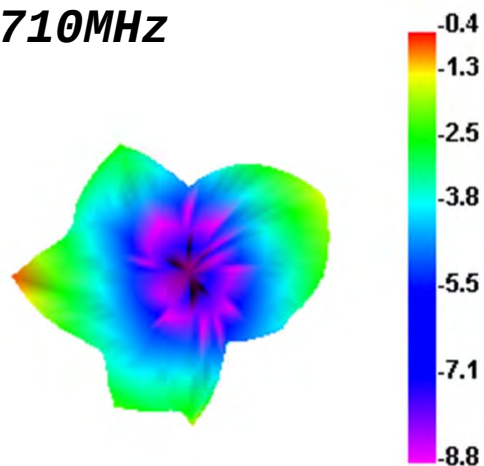
869MHz E1



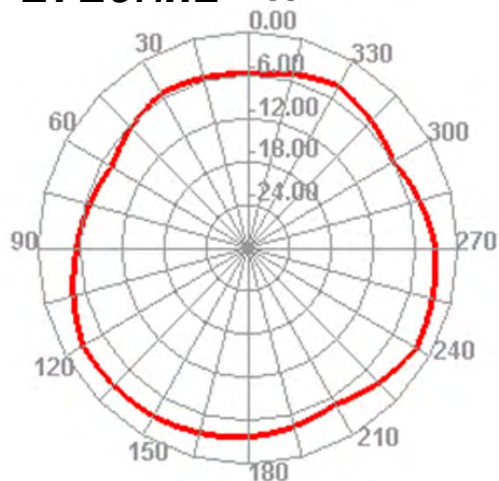
869MHz E2



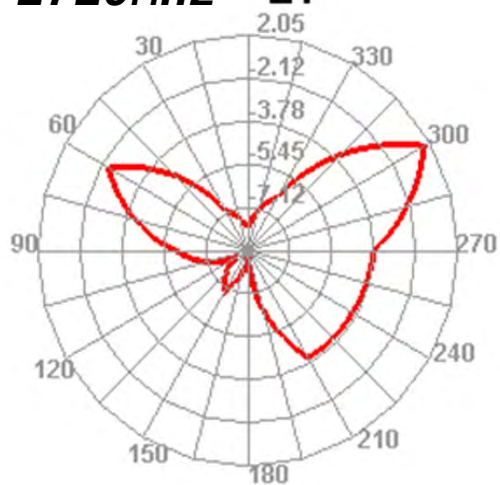
1710MHz



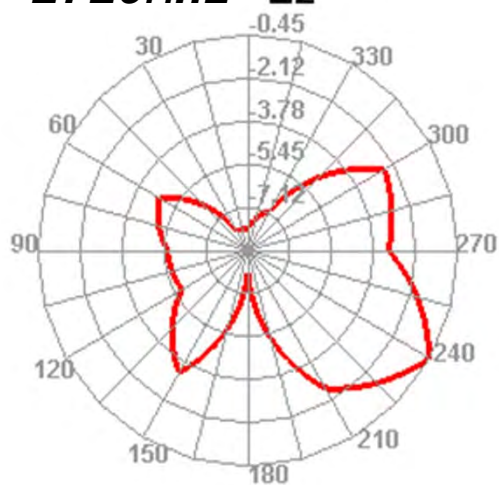
1710MHz H



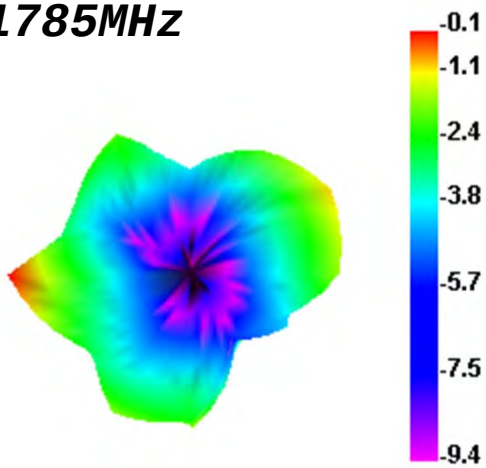
1710MHz E1



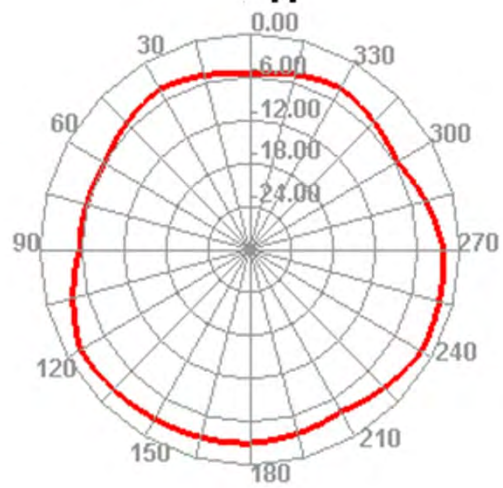
1710MHz E2



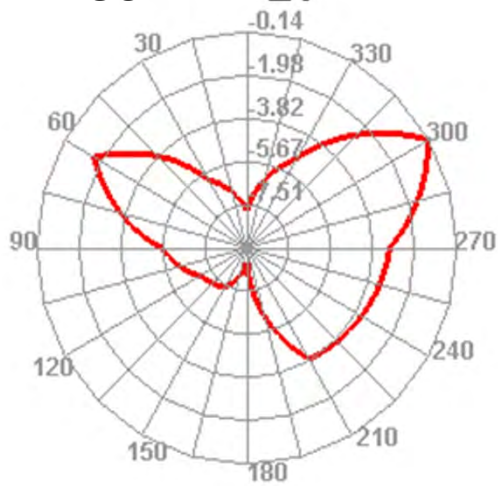
1785MHz



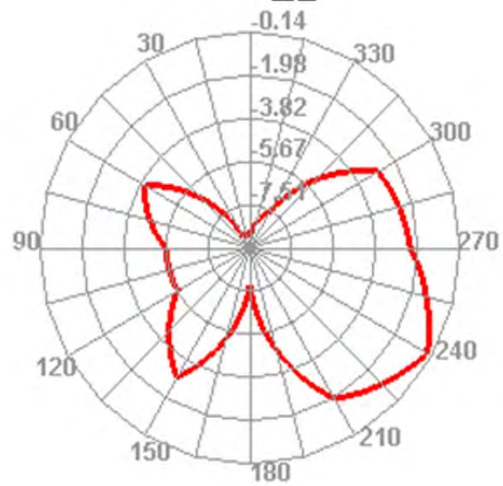
1785MHz H



1785MHz E1

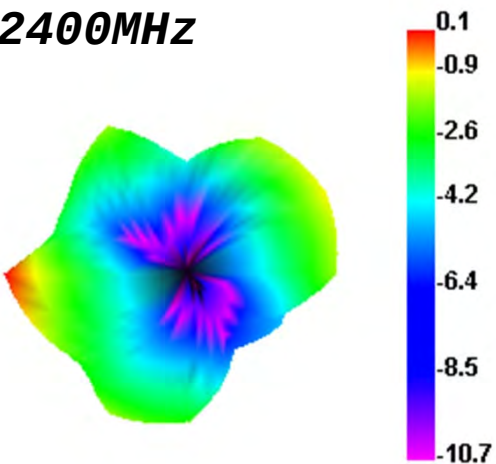


1785MHz E2

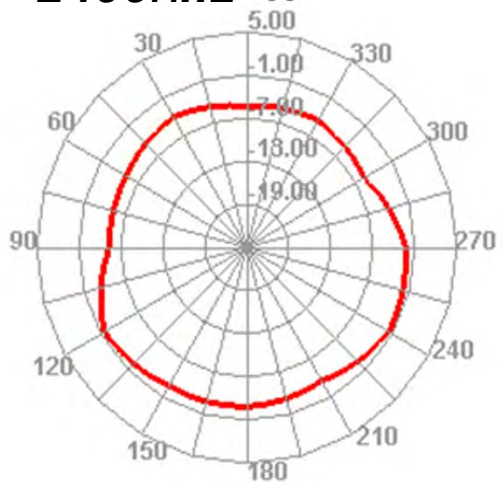


ANTENNA 2

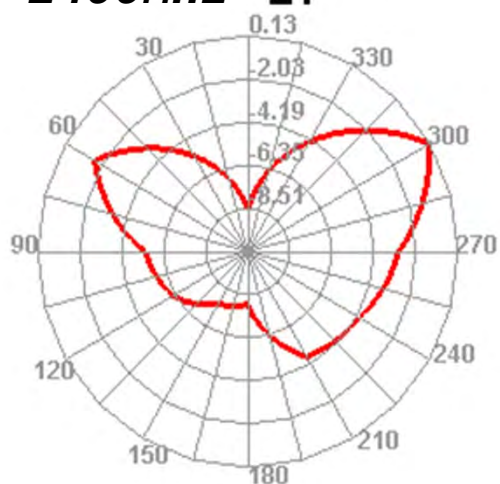
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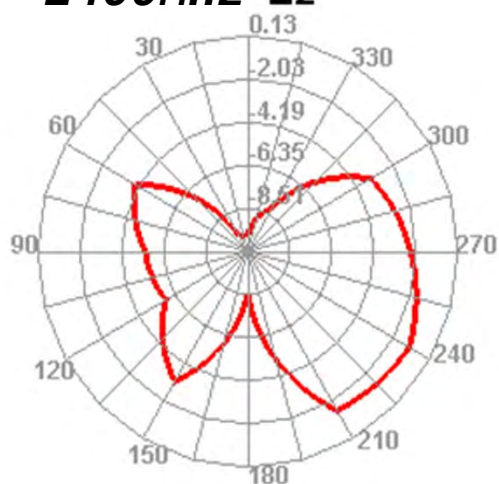
2400MHz H



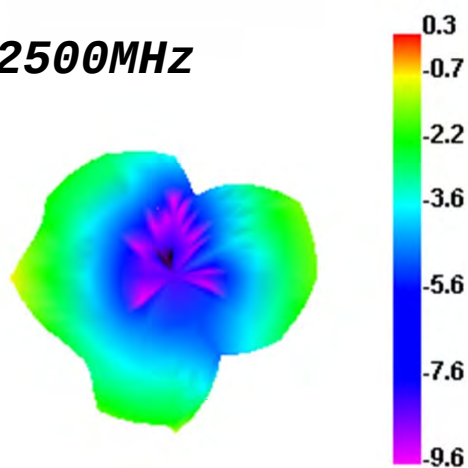
2400MHz E1



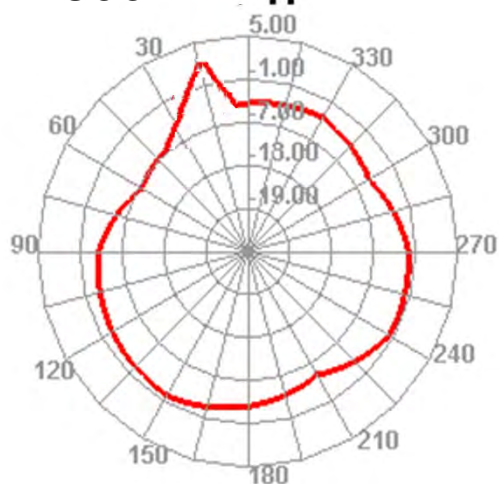
2400MHz E2



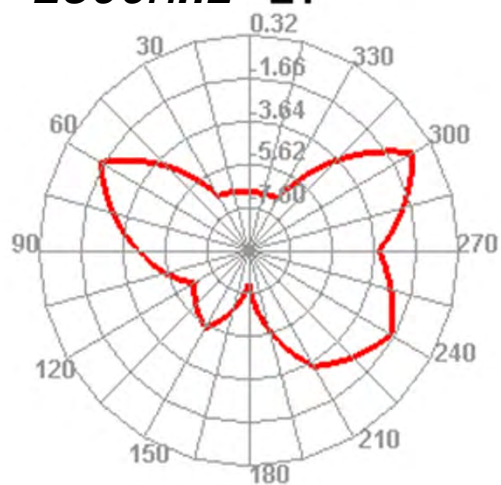
2500MHz



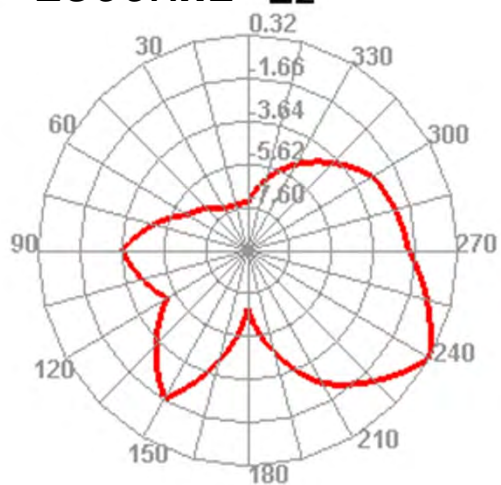
2500MHz H



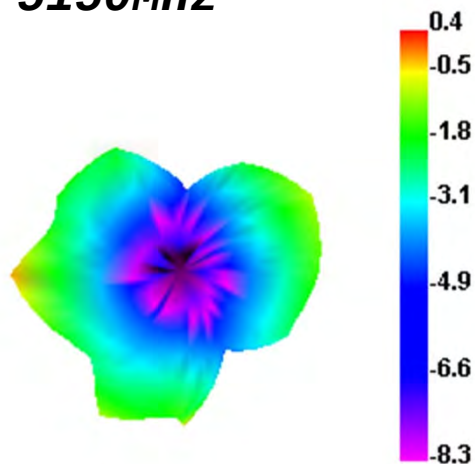
2500MHz E1



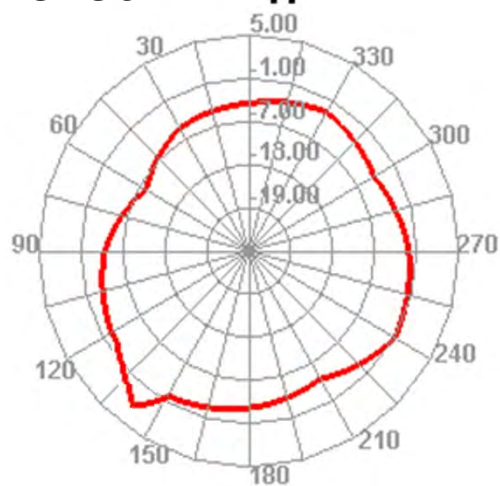
2500MHz E2



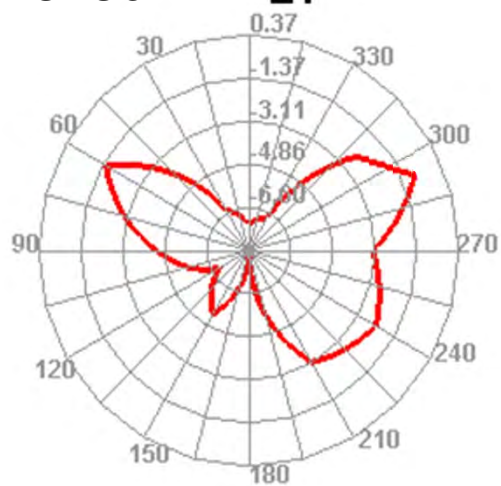
5150MHz



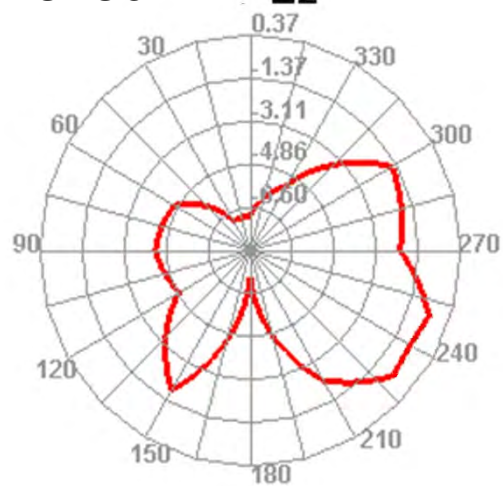
5150MHz H



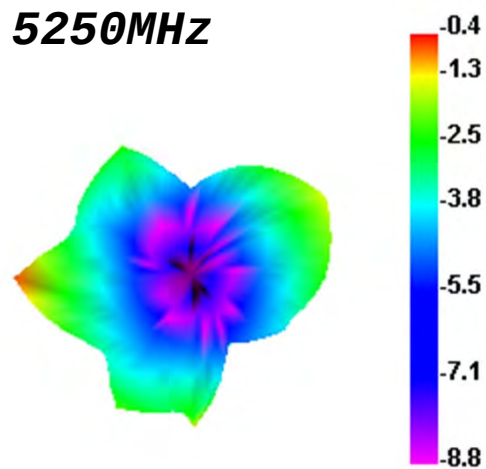
5150MHz E1



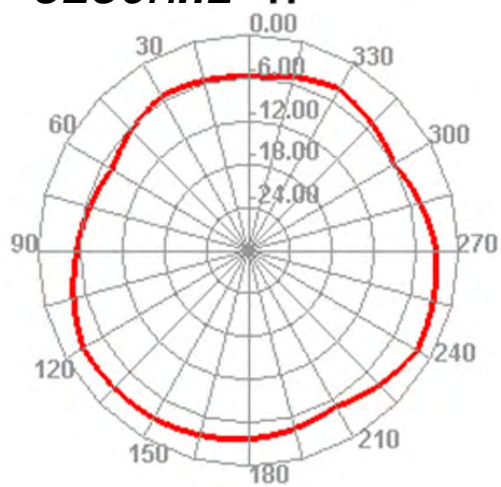
5150MHz E2



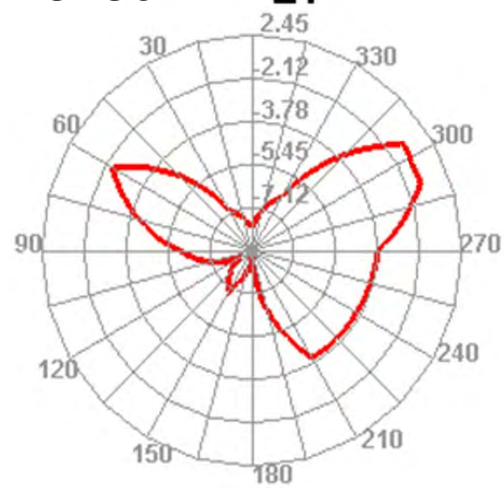
5250MHz



5250MHz H



5250MHz E1



5250MHz E2

