

Shenzhen Kuruijie Communication Technology Co., LTD

Antenna Test Report

1.Explanation of part number:

Supplier: **Kuruijie**

Frequency: 703-960Hhz, 1710-2170Mhz,2300-2690Mhz

Antenna Material: FPC

Antenna model: PIFA

2.Electrical Specification:

2-1. Frequency Band:

Frequency	MHz
LTE	703-960MHz , 1710-2170MHz , 2300-2690MHz

Project model:2819

Frequency Band: GSM B2/3/5/8+WCDMA-B1/2/4/
5/+FDD B2/4/5/7/13/28AB/66

Bluetooth: 2.4GHZ

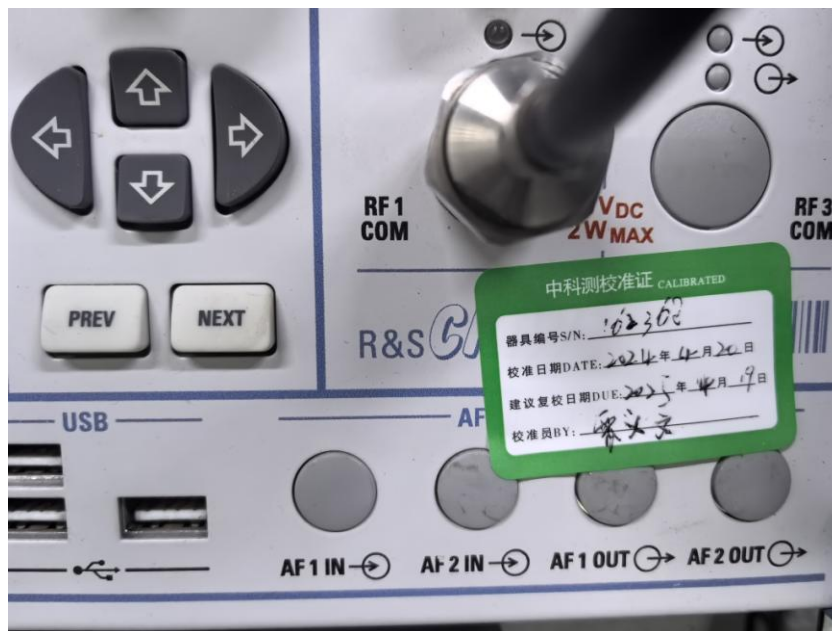
Date: 2025/04/23

ADD: 5C Building, Units 407-409, Huaqiang Creative
Industry Park, Biyan Community, Guangming Street,
Guangming District, Shenzhen, China.

1.Test Project

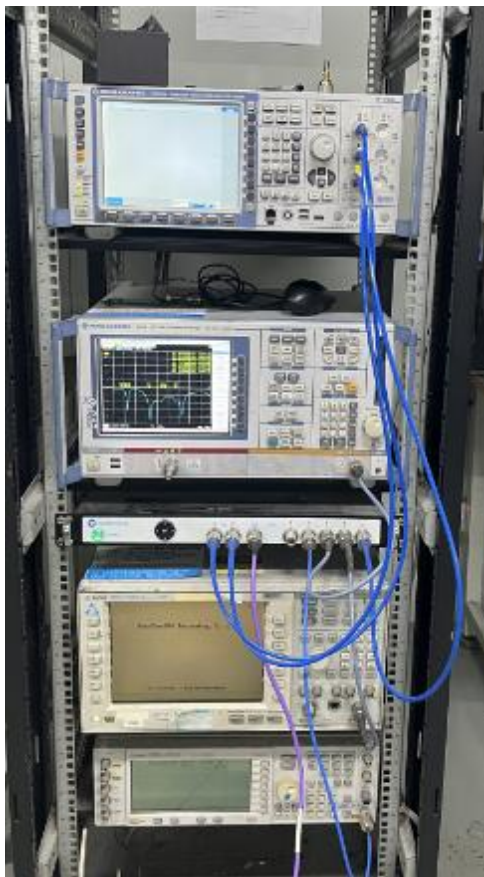
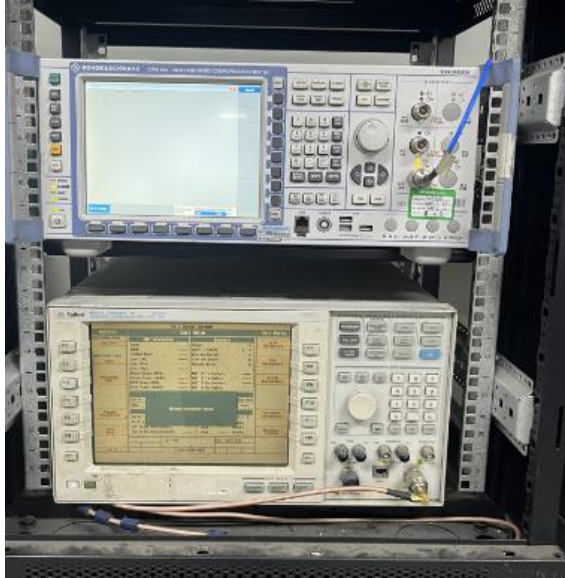
	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2G+3G+4G+BT)	1. power 2. level 3. TRP/TIS	Comprehensive Test: CMW500/8960 Test Environment: Anechoic Chamber

2.Test Equipment

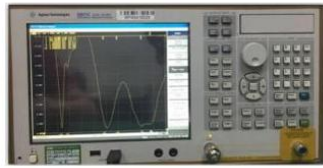


CMW 500 (2G/3G/4G Test Equipment)

3. TestEnvironment



Antenna debugging equipment



E5071C



HP8753D



ROHDE&SCHWARZ-ZVL



ROHDE&SCHWARZ



HP885046A

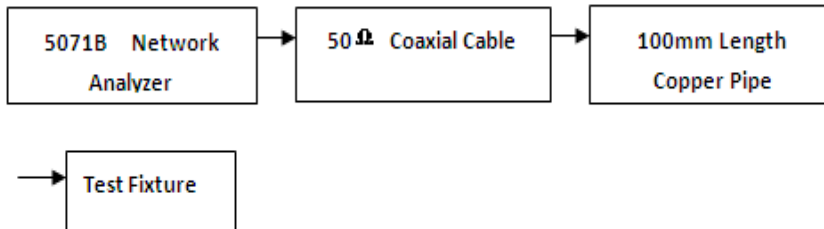


CMU200

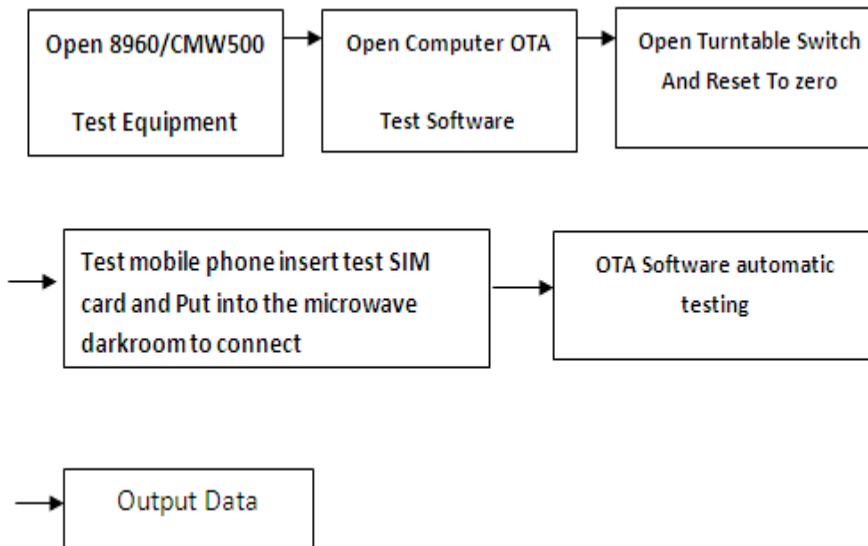
Our company has a number of OTA test darkrooms, ranging from 400MHz to 8.5ghz, which can provide passive test and active test (including OTA overall 2G,3G,4G,5GFR test, WiFi multi-mode test, GPS active test, Bluetooth active test, which can provide antenna gain and efficiency. 2D orientation and apple chart analysis and upper and lower hemisphere efficiency values, mutual disturbance correlation coefficient test items

4.Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Placement



MIAN: GSM:GSM850、EGSM900、DCS1800、PCS1900
WCDMA:B1/2/4/5
LTE:B2/4/5/7/13/28AB/66
BT: 2.4GHZ

Autodesk 教育版产品制作

D

技术要求:

1. 材料: 电解铜箔料 ☒ 无字 ☐ 一码无 ☐ 一码有
2. 电镀工艺: ☒ 镀镍金 ☐ Ni: 2~5um ☒ 镀镍金 ☐ Au: min0.5u" ☐ 防氧化
3. 油墨: 无油墨, 丝印字符, ☒ 激光/字符激光 ☐ 激光/字符白底 ☐ 激光/白底字符 图例:
4. 胶带: 3M900LSE 9471
5. 出货方式: ☒ 整板出货 ☐ 单PCB出货 ☐ 整板贴膜出货
6. 带 "▲" 尺寸为重点尺寸。
7. 表面无压伤 划痕 无油污 焊点等缺陷。
8. 图面尺寸用以检验外形功能和装配。
未标注尺寸以电子档为准。
9. 本图档为内部受控文件, 未经我司允许严禁以任何形式进行传播。

金手指

线路

外形

手糊位

无胶区

PET补强

高型纸手柄

版本	日期	变更日期	变更内容

深圳酷锐杰通信技术有限公司

单位: mm

机种: 2819 MAIN天线

日期: 2025-03-26

一般公差:

L ±0.5

.1 ±0.25

.XX ±0.10

.XXX ±0.05

ANGULAR $\angle \pm 0.5^\circ$

料号: KJ-2819-MAIN-G01-1A

设计: 阳国军

材质: FPC

RF:

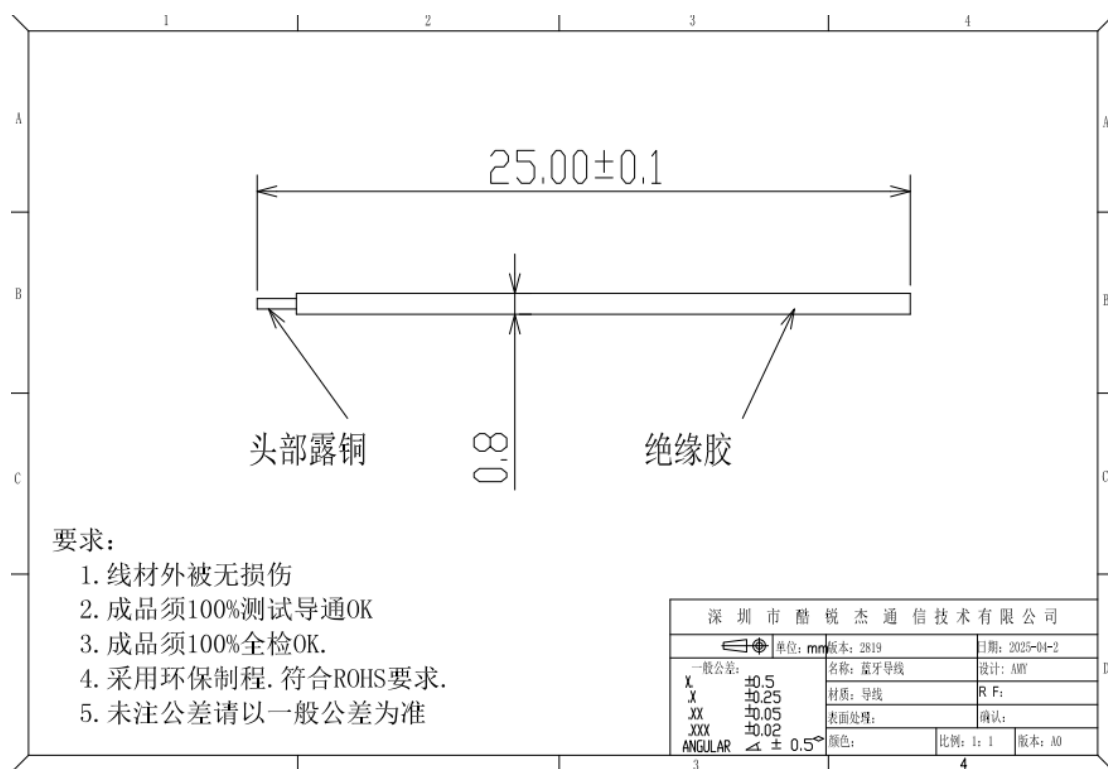
表面处理: 清洁

审核:

颜色: 哑黑

比例: 1:1

版本:



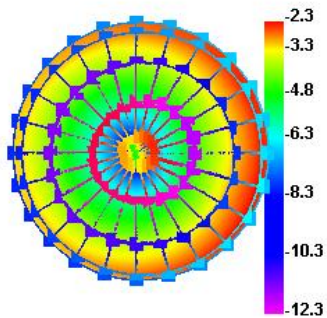
6. Antenna Gain

Frequency	Gain(dBi)
GSM850	-0.2
EGSM900	0.1
DCS1800	0.8
PCS1900	0.8
WCDMA B1	0.8
WCDMA B2	0.8
WCDMA B4	0.8
WCDMA B5	-0.2
FDD B2	0.8
FDD B4	0.8

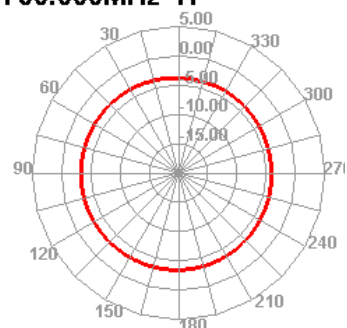
FDD B5	-0.2
FDD B7	1.4
FDD B13	-1.2
FDD B28AB	-1.5
FDD 66	0.8
BT	-0.5

7. 3D Lobe Diagram

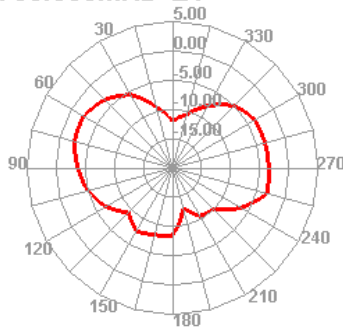
750.000MHz



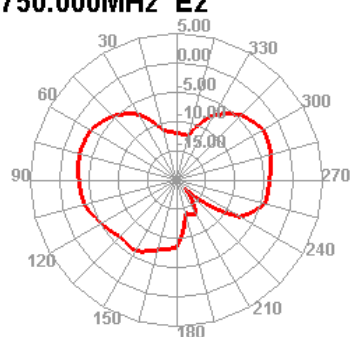
750.000MHz H



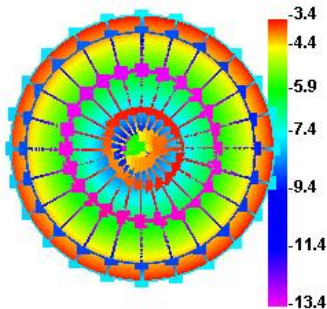
750.000MHz E1



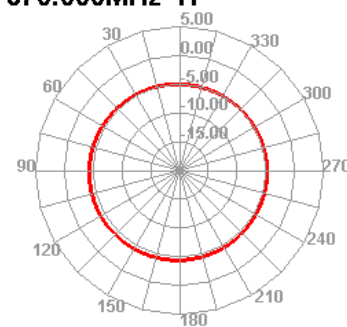
750.000MHz E2



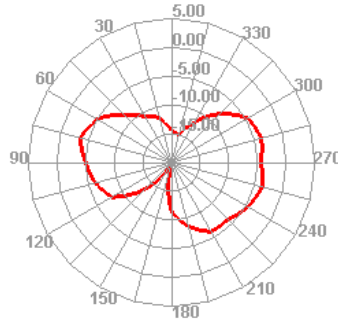
870.000MHz



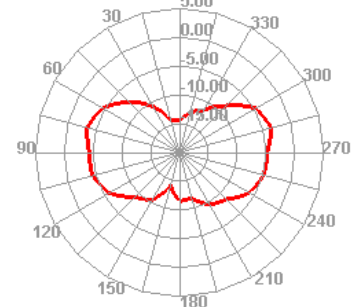
870.000MHz H



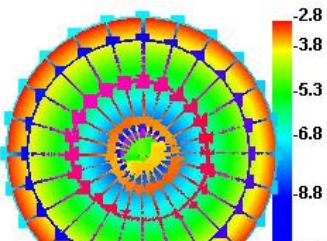
870.000MHz E1



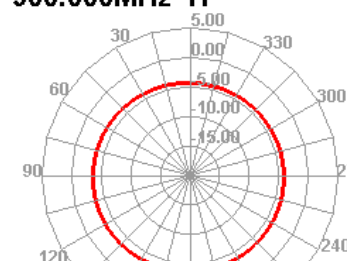
870.000MHz E2



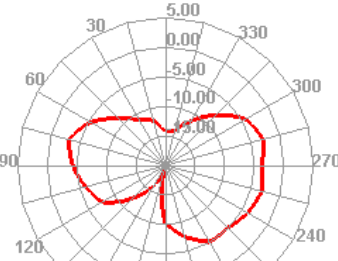
900.000MHz



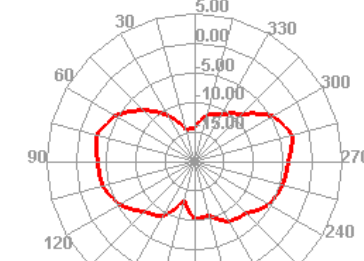
900.000MHz H



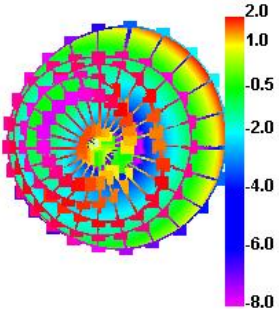
900.000MHz E1



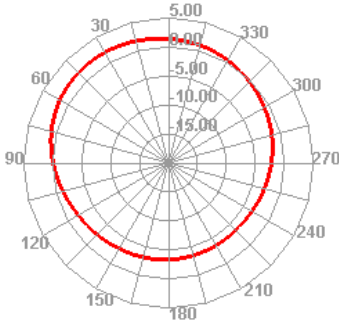
900.000MHz E2



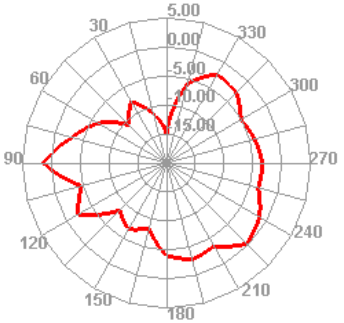
1750.000MHz



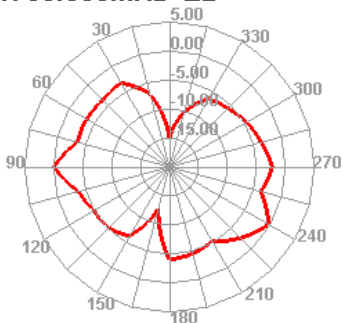
1750.000MHz H



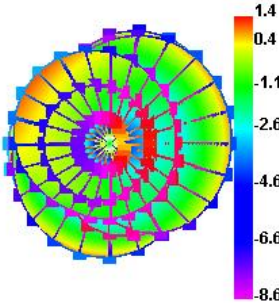
1750.000MHz E1



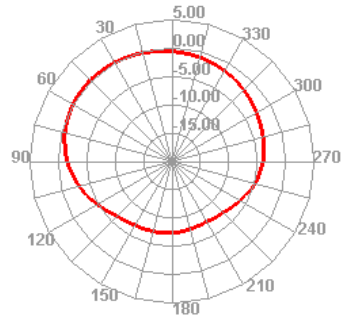
1750.000MHz E2



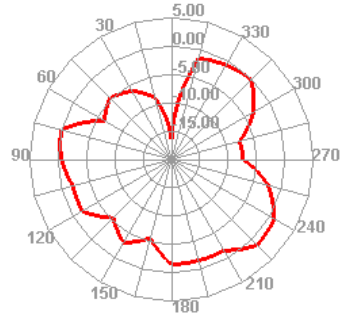
1920.000MHz



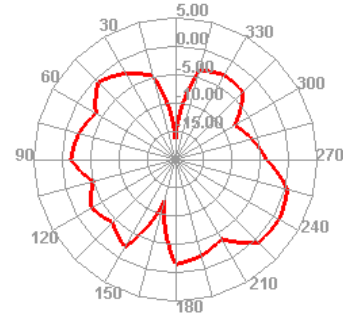
1920.000MHz H



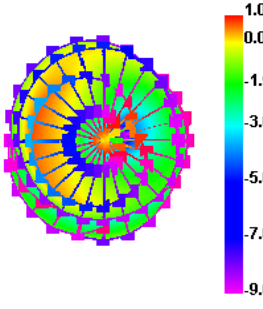
1920.000MHz E1



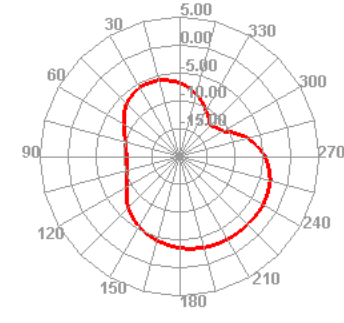
1920.000MHz E2



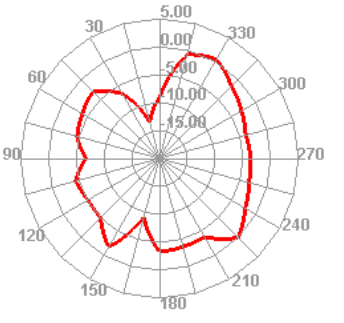
2170.000MHz



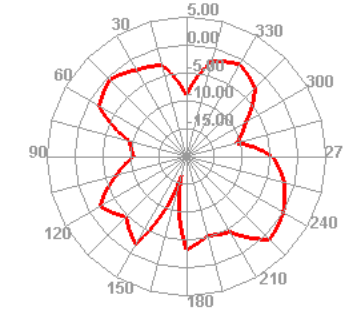
2170.000MHz H



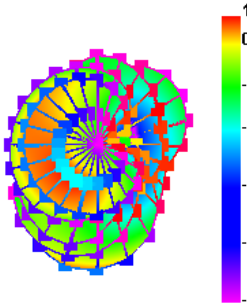
2170.000MHz E1



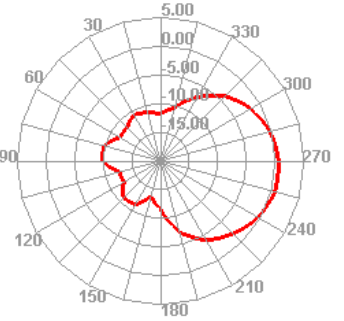
2170.000MHz E2



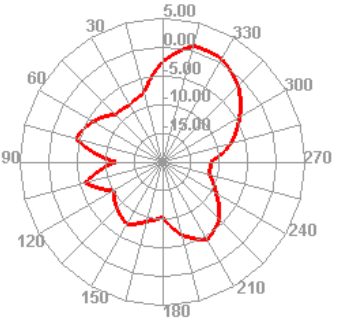
2640.000MHz



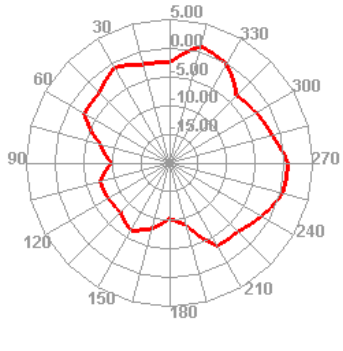
2640.000MHz H



2640.000MHz E1

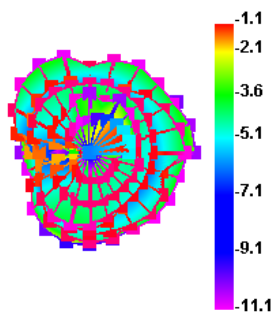


2640.000MHz E2

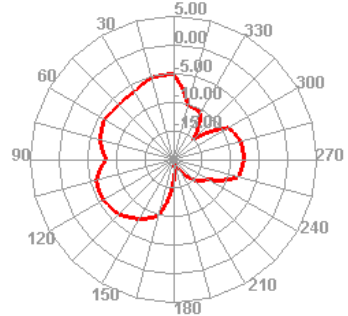


BT

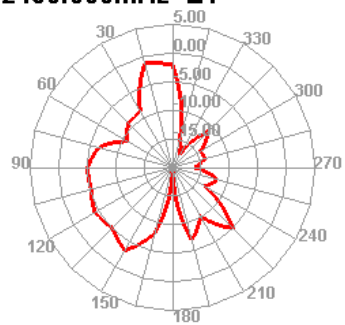
2450.000MHz



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

