



拓频物联

X100 Antenna report

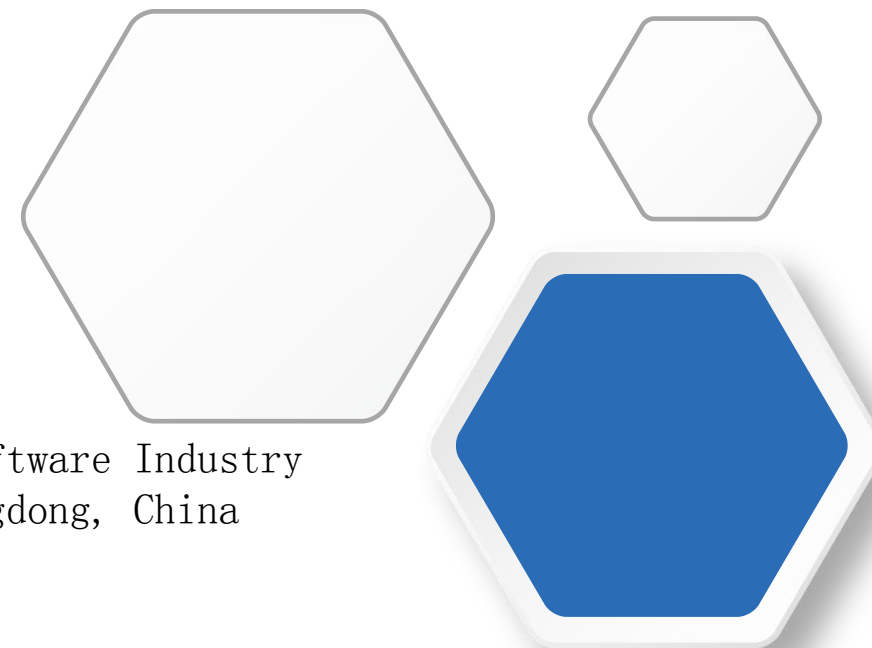
Manufacturer: Shenzhen uCloudlink Network Technology Co., Ltd.

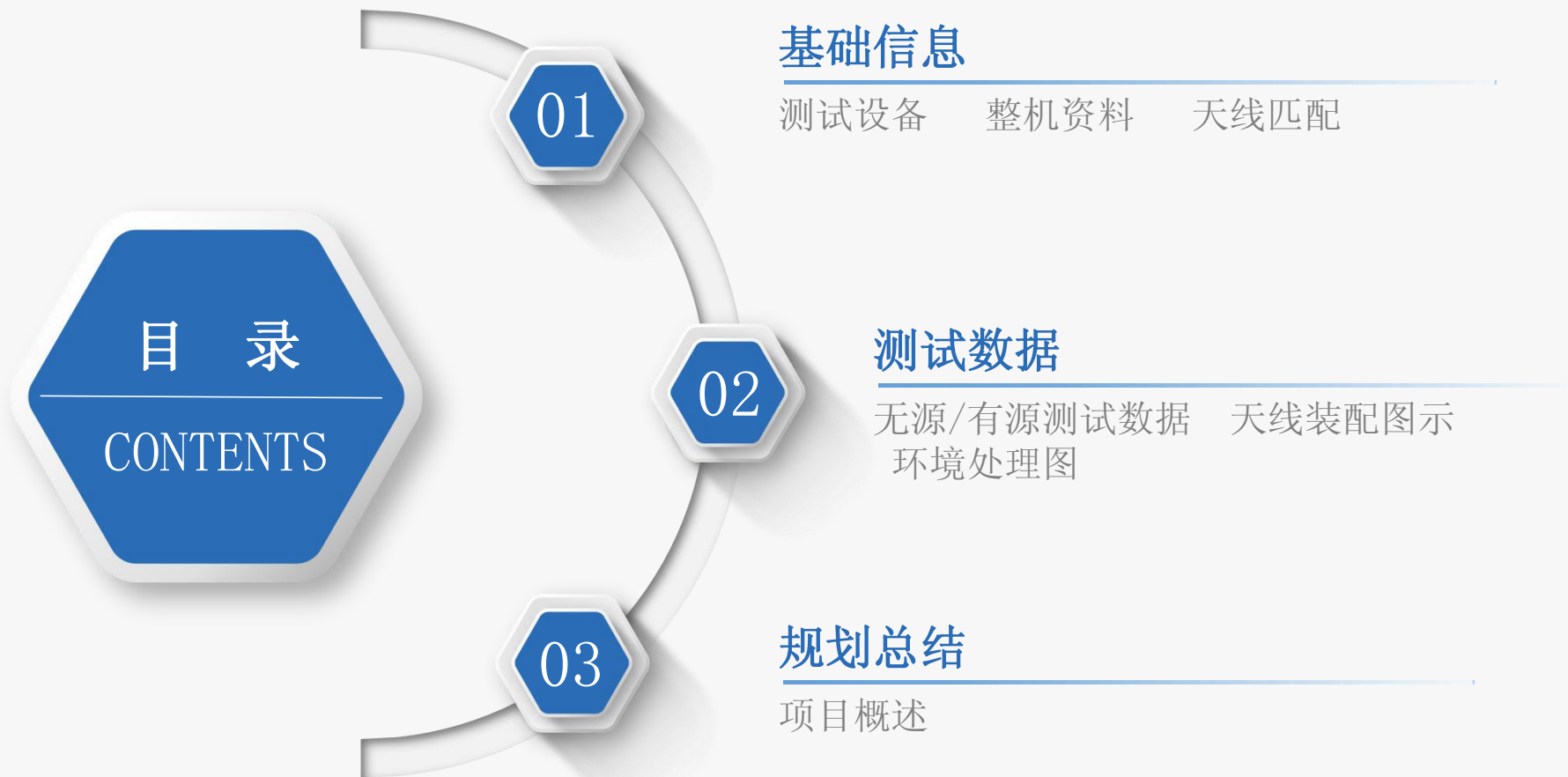
Manufacturer Add: 3rd Floor, A part of Building 1, Shenzhen Software Industry Base, Nanshan District Xuefu Road, 518057 Shenzhen City, Guangdong, China



射频: 吕佳乐

时间: 2024.05.24







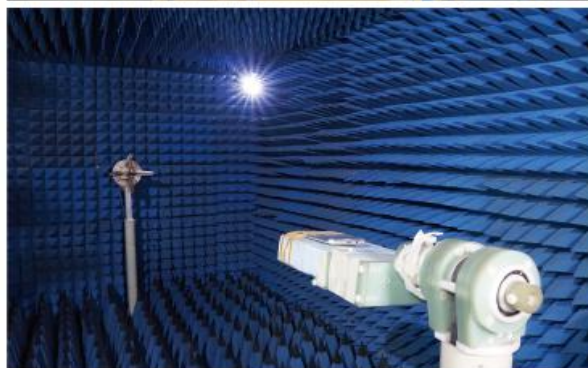
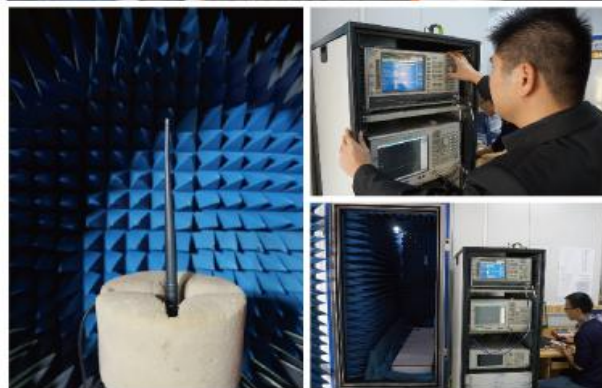
基础信息

Basic information

【SATIMO】



【广屏】



测试系统

➤ SATIMO, Agilent E5071C, Anritsu MT8820C, CMW500, StarPointSP9500

SATIMO暗室-配备

Anritsu综测仪8820c/Agilent网分5071C/Agilent综测仪E4438C

广屏暗室-配备

Agilent-综测仪8960/罗德-cmw500

调试网分

Agilent 网分5071C



基础信息

Basic information



整机资料 machine data

- Applicant: UCLOUDLINK (SINGAPORE) PTE. LTD
- Ant. name: X100
- 频段信息:
 - FDD: B1/B2/B3/B5/B8/B12/B13/B17/B18 /B19/B20/B25/B26/B28
 - TDD: B38/B41/34
 - WIFI: 2.4G 802.11b/g/n



天线匹配

Antenna circuit matching description

(1) **LTE**天线匹配

信号路： 匹配无更改

(2) **2.4G**天线匹配：

匹配无更改



测试数据: 4G天线无源数据: (SWR/Log Mag /Smith)

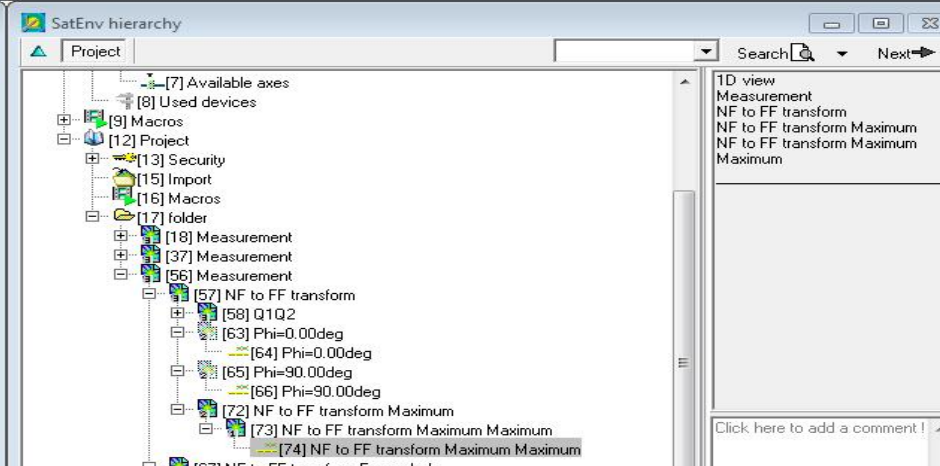
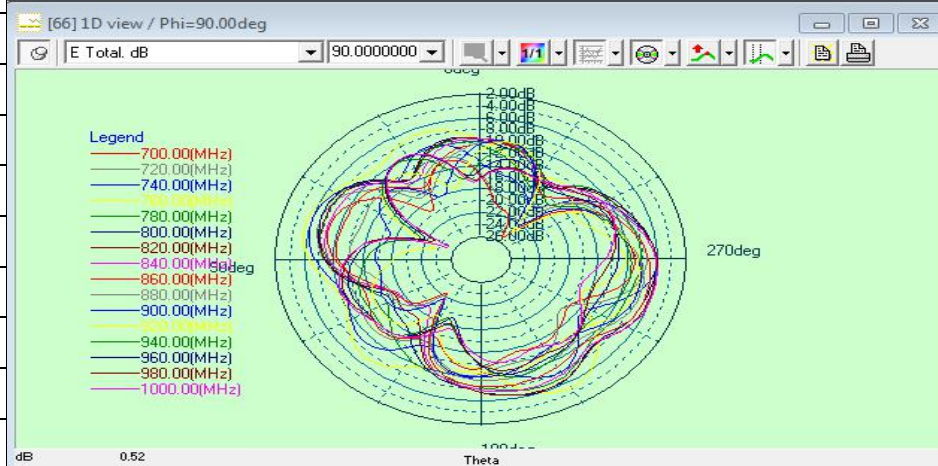
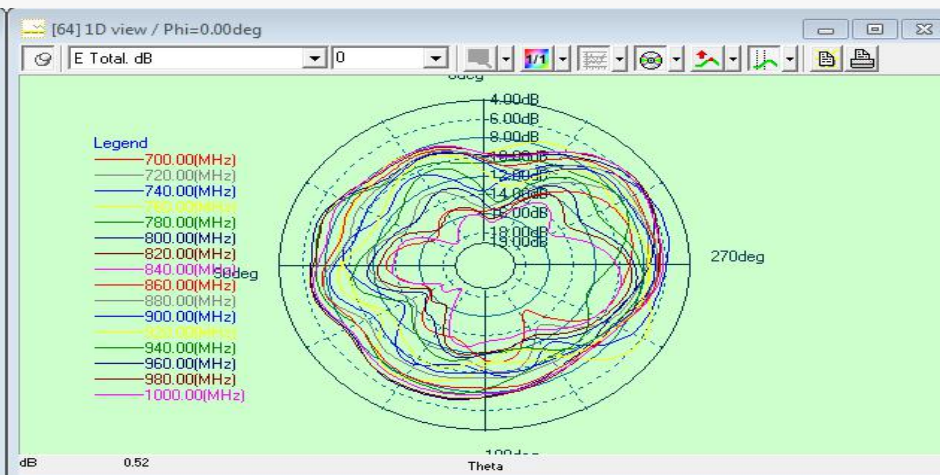
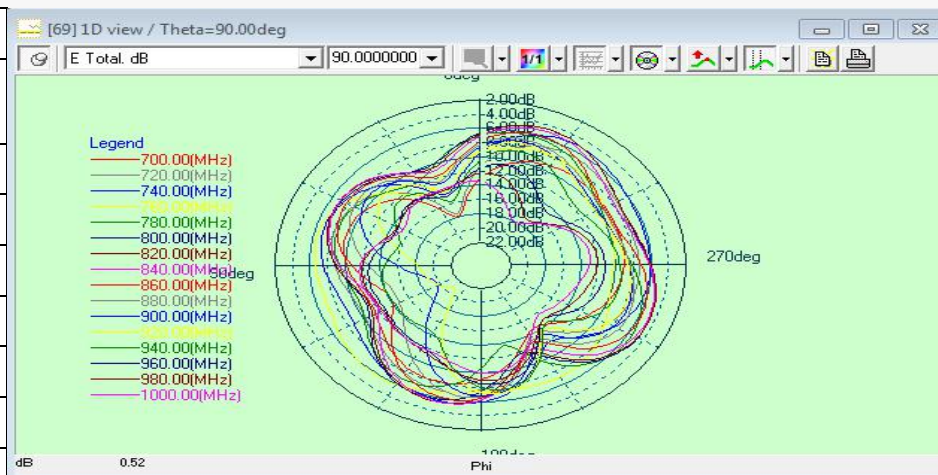




测试数据: test data

4G天线无源数据: (效率/增益/方向图)

700-1000MHZ Efficiency		
Frequency	Efficiency	Gain. dBi
700MHz	6%	-6.77
720MHz	8%	-5.61
740MHz	12%	-4.12
760MHz	15%	-3.45
780MHz	12%	-4.80
800MHz	15%	-4.10
820MHz	15%	-4.34
840MHz	14%	-4.40
860MHz	11%	-5.14
880MHz	9%	-6.32
900MHz	8%	-6.85
920MHz	7%	-7.04
940MHz	6%	-7.13
960MHz	5%	-8.07
980MHz	5%	-8.71
1000MHz	4%	-9.48

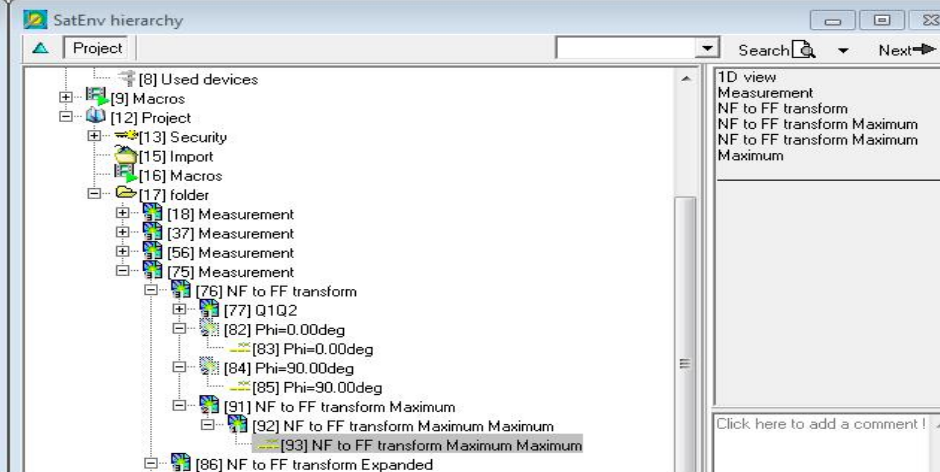
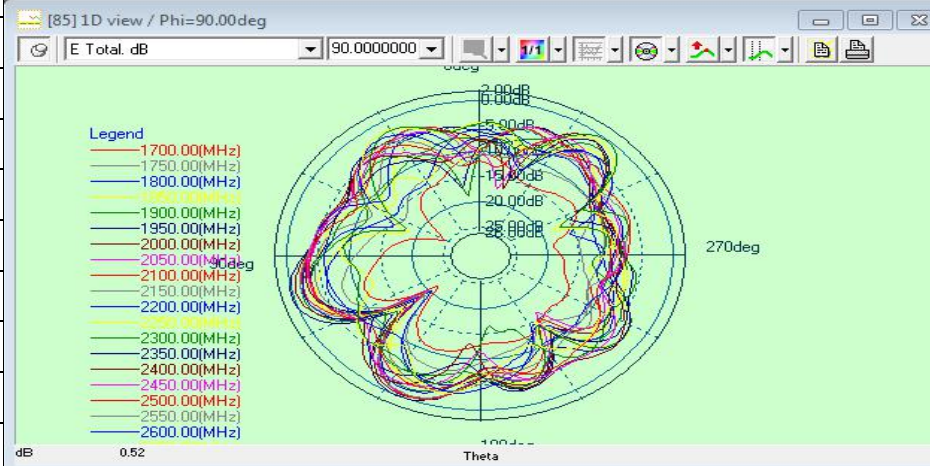
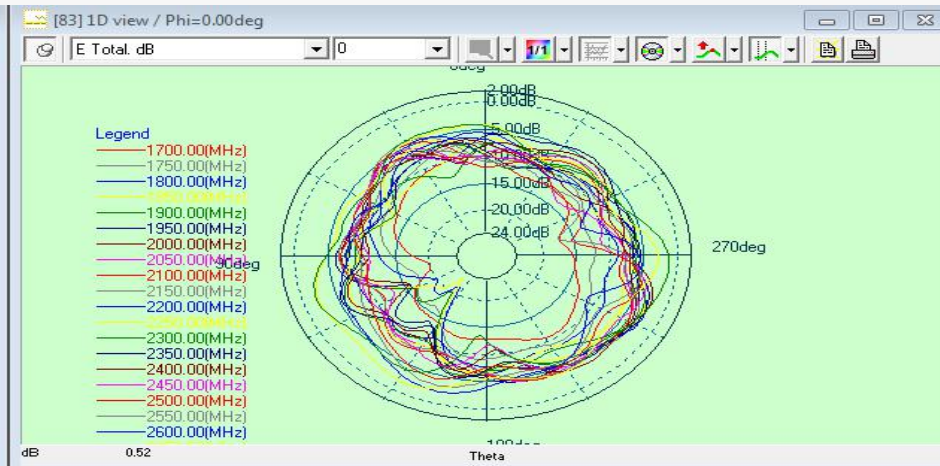
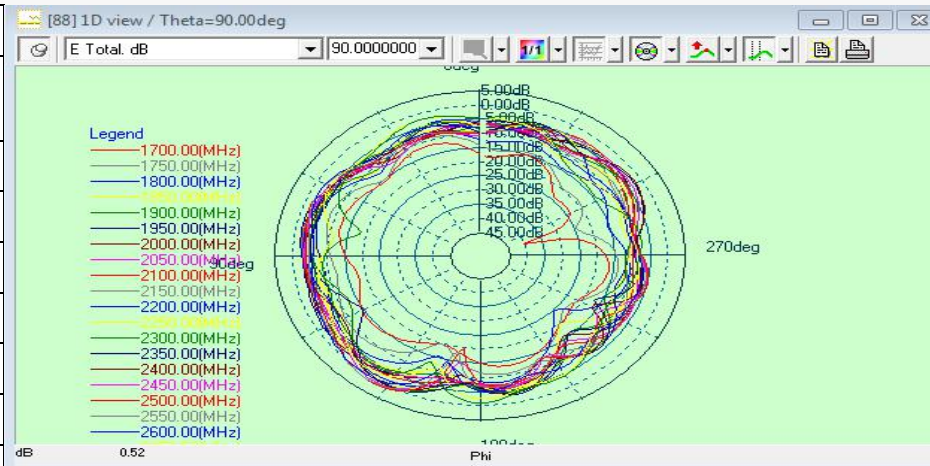




测试数据: test data

4G天线无源数据: (效率/增益/方向图)

1700-2700MHz Efficiency		
Frequency	Efficiency	Gain. dBi
1700MHz	3%	-9.66
1750MHz	6%	-6.46
1800MHz	11%	-3.85
1850MHz	16%	-1.81
1900MHz	22%	-0.71
1950MHz	32%	1.16
2000MHz	28%	0.46
2050MHz	25%	0.09
2100MHz	26%	-0.04
2150MHz	26%	0.52
2200MHz	24%	1.11
2250MHz	25%	0.56
2300MHz	25%	1.50
2350MHz	28%	2.45
2400MHz	30%	2.89
2450MHz	26%	2.29
2500MHz	26%	2.33
2550MHz	24%	2.10
2600MHz	24%	1.23
2650MHz	30%	0.07
2700MHz	28%	1.02





测试数据: WIFI天线无源数据: (SWR/Log Mag /Smith)

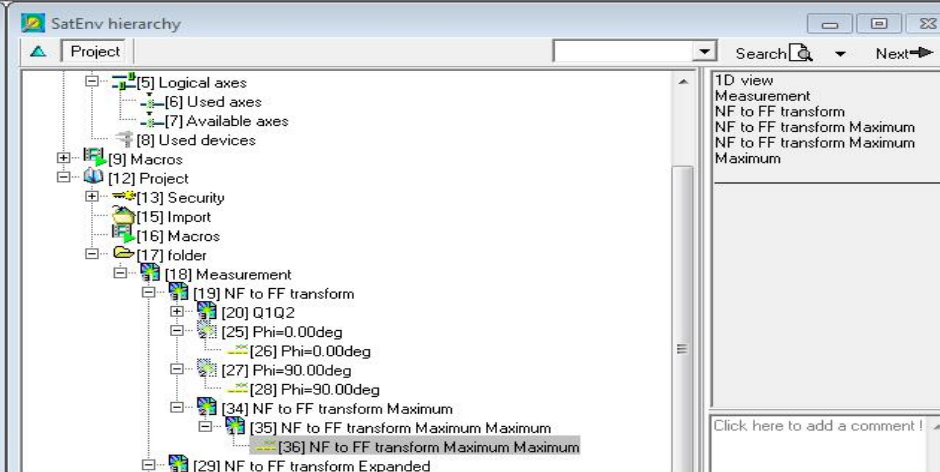
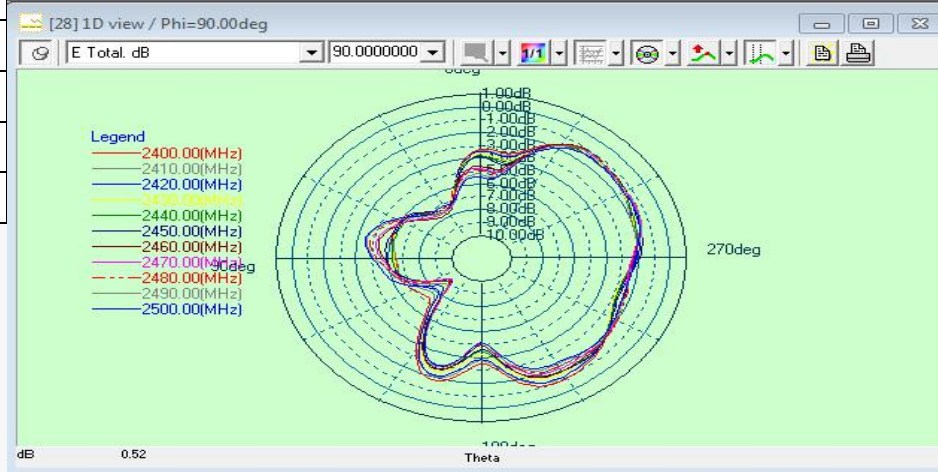
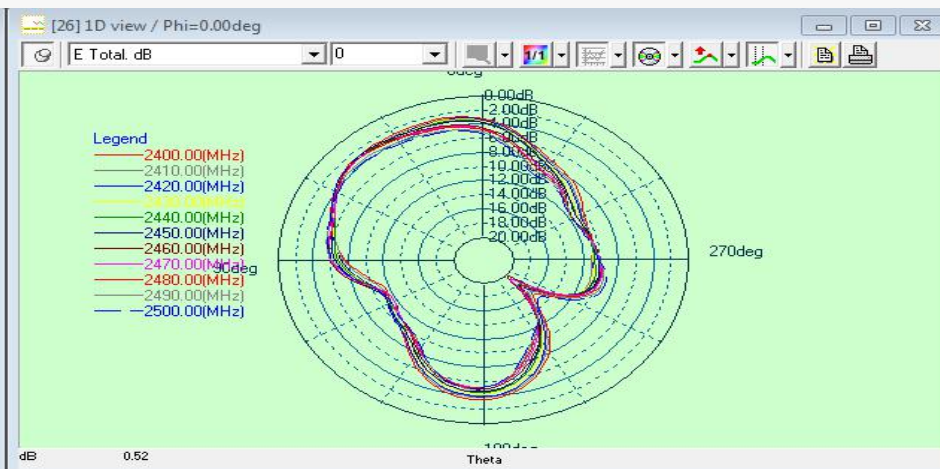
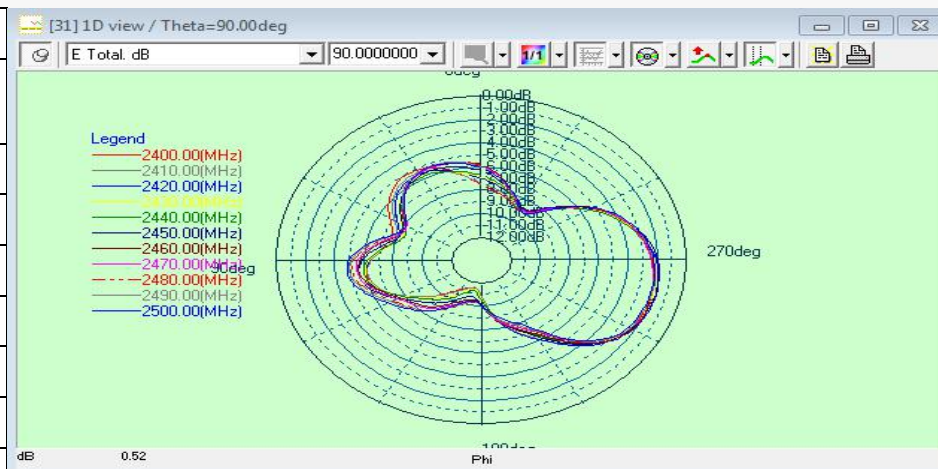




测试数据: test data

WIFI天线无源数据: (效率/增益/方向图)

2400-2500MHz Efficiency		
Frequency	Efficiency	Gain. dBi
2400MHz	32%	-0.31
2410MHz	31%	-0.55
2420MHz	31%	-0.59
2430MHz	30%	-0.87
2440MHz	30%	-0.91
2450MHz	30%	-0.78
2460MHz	30%	-1.01
2470MHz	29%	-1.05
2480MHz	30%	-1.02
2490MHz	29%	-1.10
2500MHz	29%	-1.22





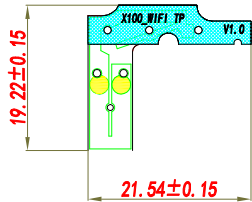
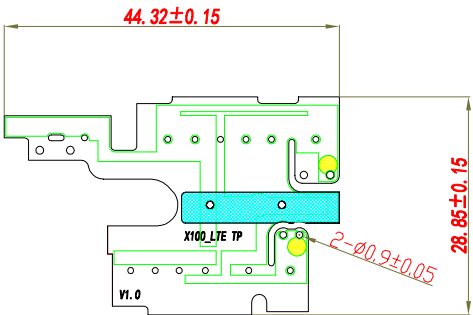
规划总结

Planning to summarize

以上为X100无源数据。

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深圳市拓频物联技术有限公司 SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD

	第三视角	品 名	LTE_FPC	绘 图	ZFM	日期	2024.05.29
0-10	± 0.10	机 种	X100	审 核	RF: 吕佳乐	日期	2024.05.29
10-20	± 0.12	料 号	175-019-11-OK-A	确 认	ME:	日期	
20-50	± 0.15	材 质	FR-4			日期	
ANGLE	± 0.15	平面度	± 0.15			日期	
		位置		单位	mm	比例	1:1
						版本	1.0

THANK YOU

愿您在纷繁喧扰的世界有一颗平静的心
—拓频物联

