

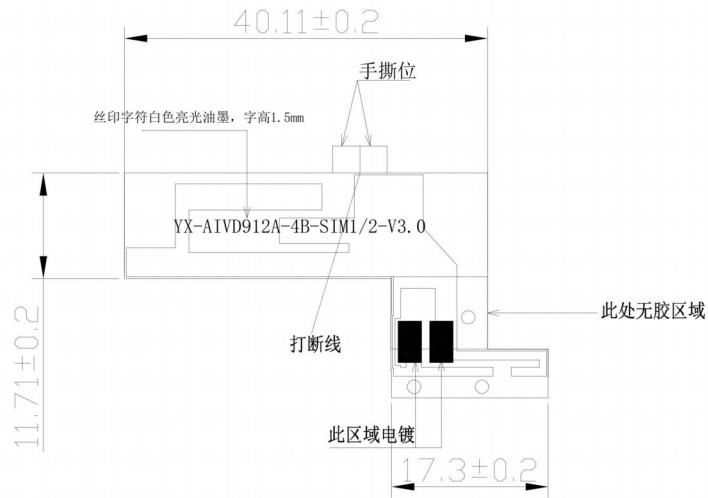
ANT Report

Manufacturer:	CND Electronic Technology (shenzhen) Co.,Ltd
Add:	5thh Floor, Xinhua industrial Building No.7, Nanshan District ,Shenzhen,China
Model:	X1
Date:	October 16, 2024
Versions:	V1.0

1. Test equipment list

name	Manufacturer	Model
Network analyzer	KEYSIGHT	E5071C
Network analyzer	KEYSIGHT	E5071C
Comprehensive Measuring Instrument	R&S	CWM500
OTA test system	GTS	RayZone-5000

Size



字符说明:

1. 内容“XXXX”表示生产日期（年周，如2101）

出货方式：单PCS包装出货

注:

1. MATERIAL :一对半电解铜, PI基材。图中绿色线表示铜层的轮廓, 紫色线表示外形。

2. 未注公差要求: A. 铜箔到铜箔 ± 0.05 B. 铜箔到外形 ± 0.15 (特殊要求的话做到 ± 0.10) C. 孔到外形的公差 ± 0.15 (特殊要求的话做到 ± 0.10)

D. 孔径的尺寸公差 ± 0.05 E. 阻焊公差 ± 0.30 F. 外形到外形 ± 0.15 (特殊要

求的话做到 ± 0.1) G. 冲孔与冲孔之间的距离公差 ± 0.1 H. 孔到铜箔 ± 0.15 .

3. OSP 处理: (盐雾必须过48H), 油墨: 黑色

4. 此FPC背胶为:3M 9471 LSE, 粘性要超强!

5. 表面无压伤, 划痕, 无油污, 斑点, 发黑等缺陷;

6. 首批模具样品:随机挑选5pcs做全尺寸测量, 报告及样品需转递HT品质部;

7. 尺寸要求:

7.1. ST尺寸:测量最小量为500中选取的任意35个产品的尺寸作cpk分析:

7.2. * 尺寸为重点管控尺寸;

8. 任何用料上的修改必须通过yGalax工程部门的书面同意, 并通过yGalax品质部门的各项测试;

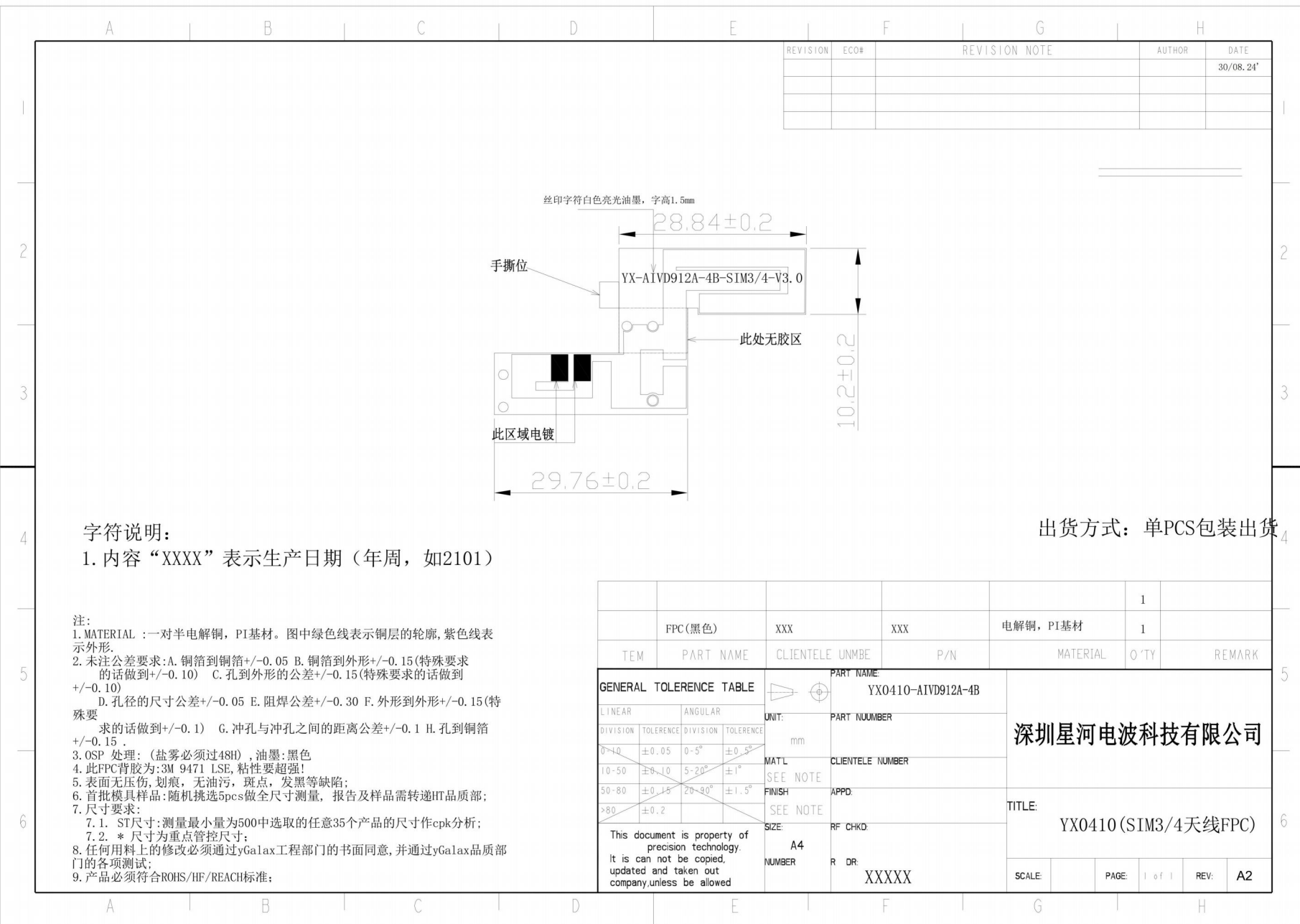
9. 产品必须符合ROHS/HF/REACH标准;

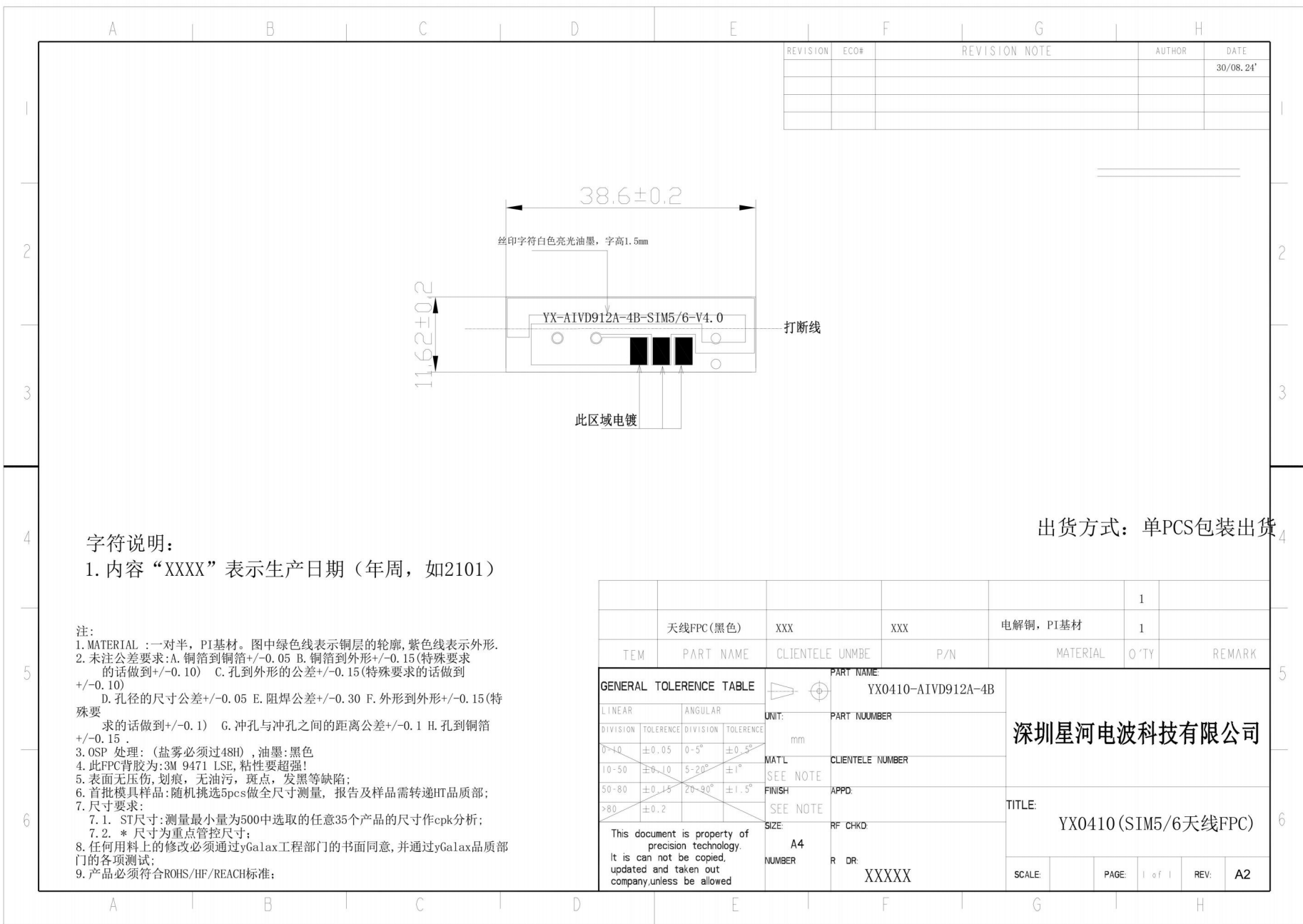
					1	
	天线FPC(黑色)	XXX	XXX	电解铜, PI基材	1	
TEM	PART NAME	CLIENTELE UNMBE	P/N	MATERIAL	O'TY	REMARK

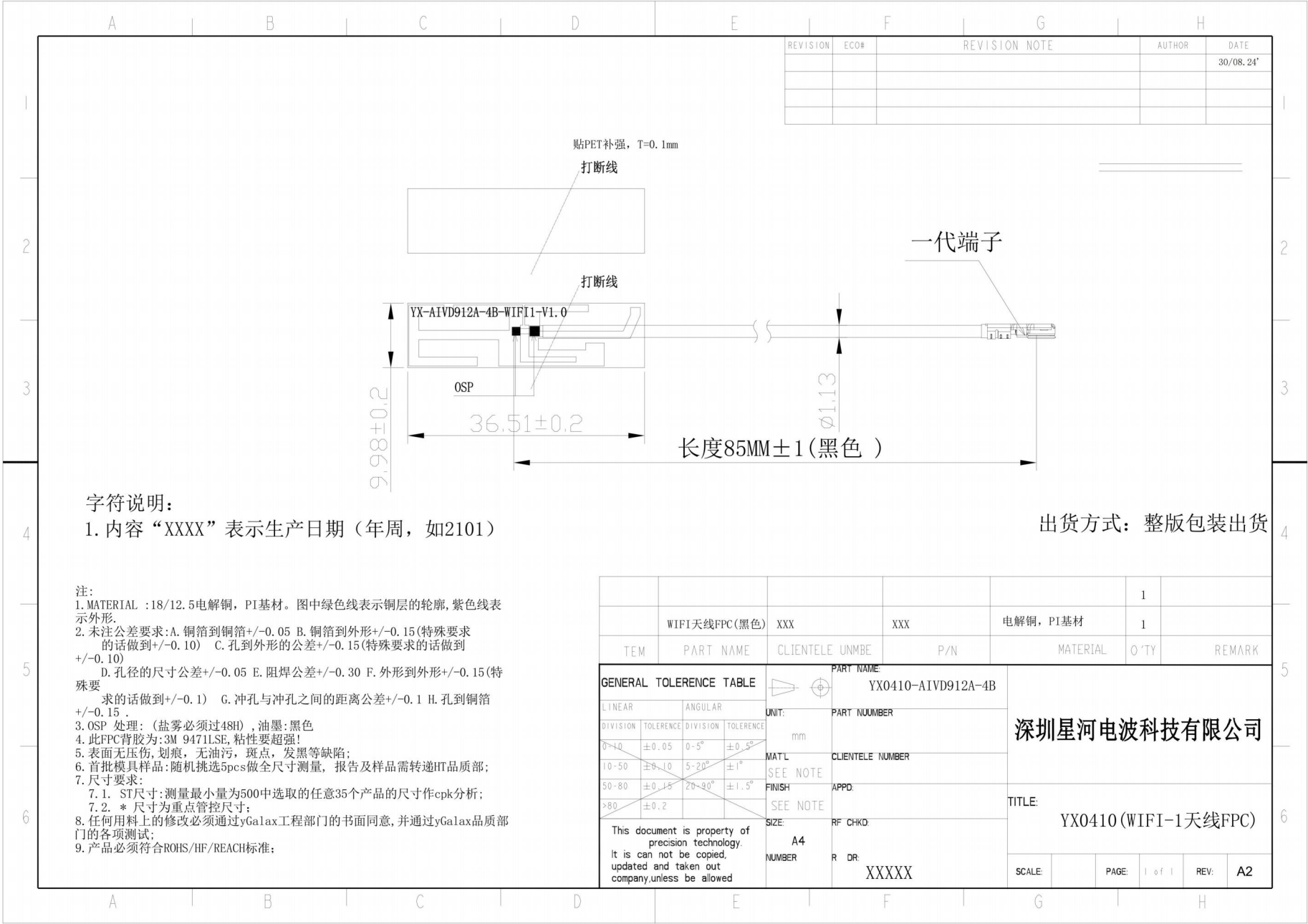
GENERAL TOLERANCE TABLE				 		PART NAME			
LINEAR		ANGULAR		YX0410-A1VD912A-4B					
DIVISION	TOLERANCE	DIVISION	TOLERANCE	UNIT:	PART NUMBER				
0~10	±0.05	0~5°	±0.5°	mm	深圳星河电波科技有限公司				
10~50	±0.10	5~20°	±1°	MAT'L				CLIENTELE NUMBER	
50~80	±0.15	20~30°	±1.5°	FINISH				APPD:	
>80	±0.2			SEE NOTE				TITLE:	
This document is property of precision technology. It is can not be copied, updated and taken out company,unless be allowed				SIZE:	RF CHKD:		YX0410 (SIMI1/2天线FPC)		
A4				NUMBER	R DR:				
				XXXXX					
				SCALE:	PAGE:	1 of 1	REV:	A2	

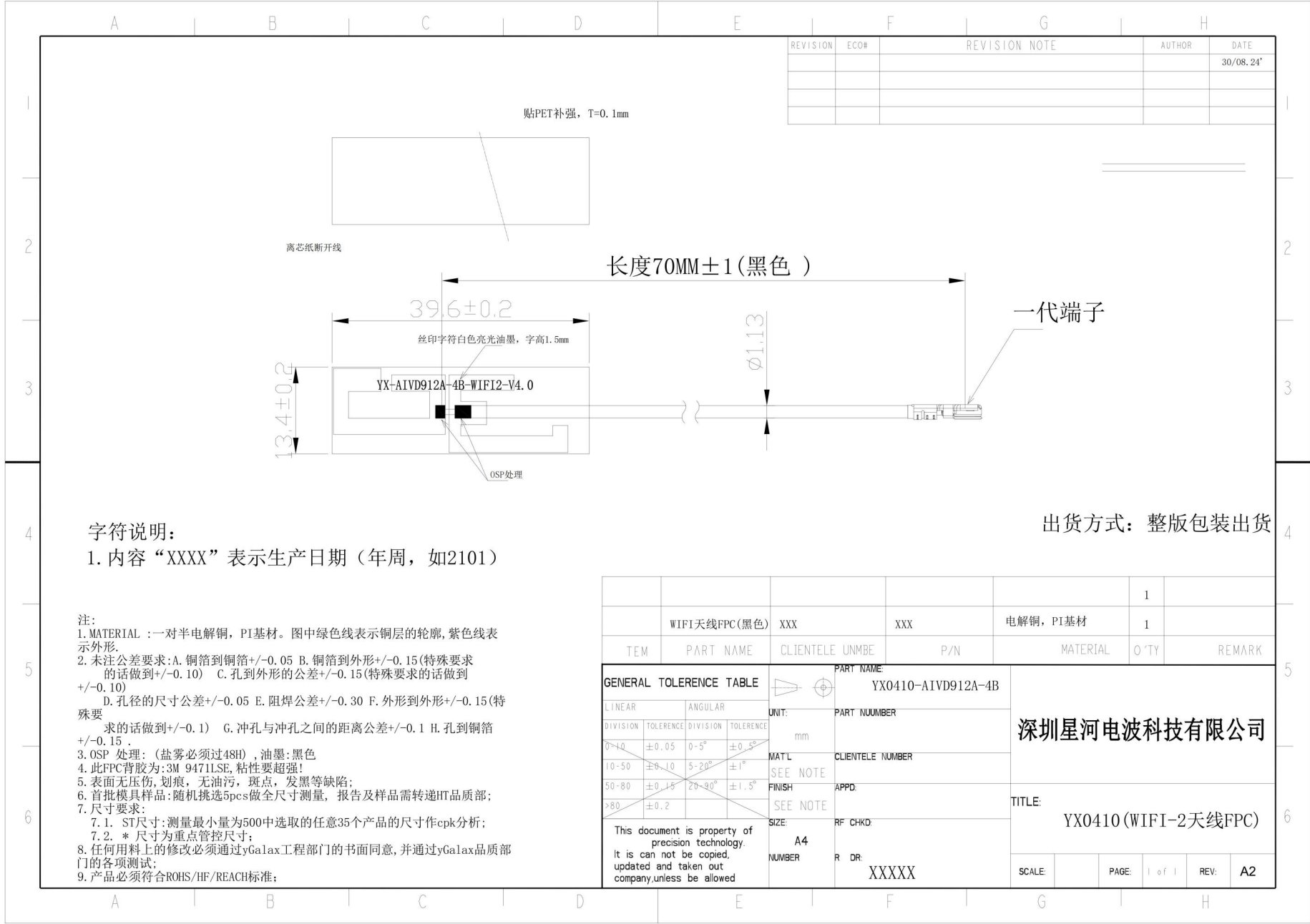
深圳星河电波科技有限公司

TITLE: YX0410 (SIMI1/2天线FPC)

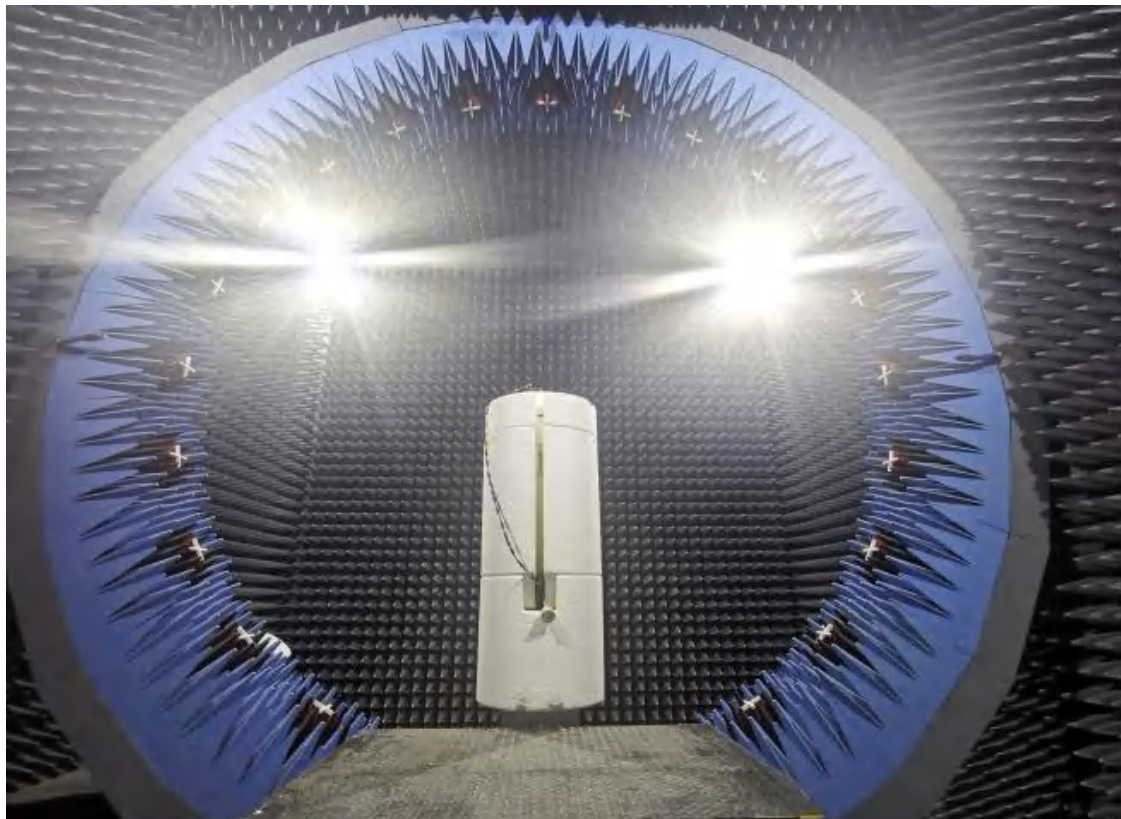
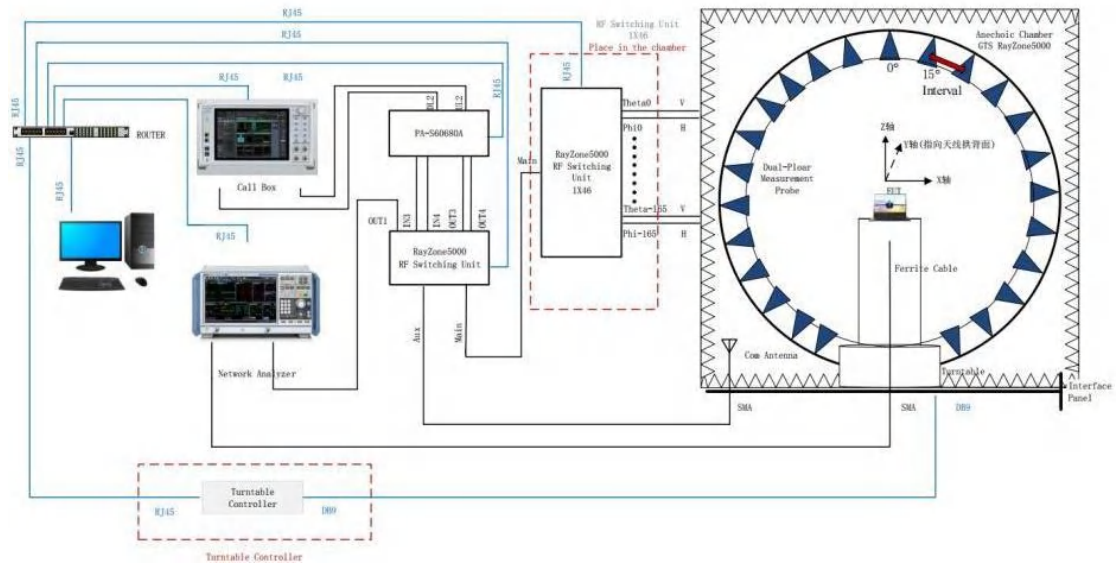








2. Test setup



3. Performance parameter

Frequency range	WITI ANT1: 2400-6000MHz WITI ANT2: 2400-6000MHz LTE ANT1: 800-2700MHz LTE ANT2: 800-2700MHz LTE ANT3: 800-2700MHz
VSWR	≤ 7.0
Input impedance	50 Ω
Antenna type	FPC Antenna
Temperature	-40~80

4. VSWR Test Data

Frequency(MHz)	Return Loss	VSWR
800	-8.64	2.46
2400	-8.11	2.14
2450	-10.87	1.82
2500	-10.84	2.18
5150	-10.14	2.47
5850	-10.64	2.96

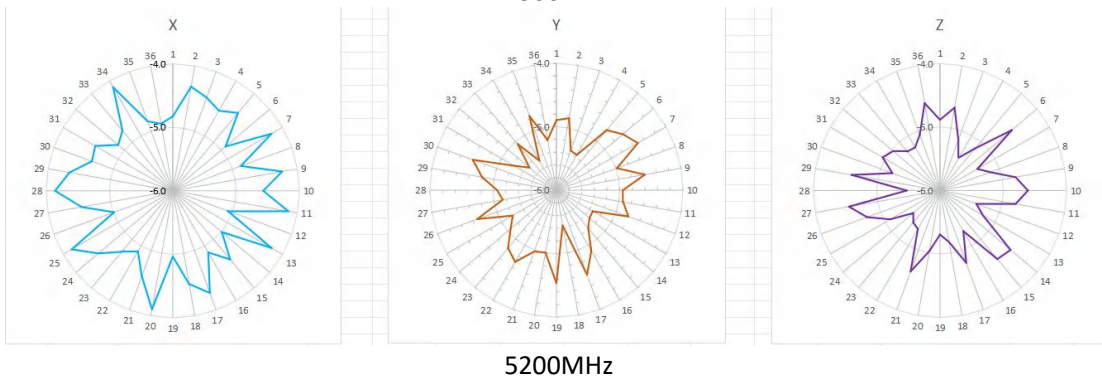
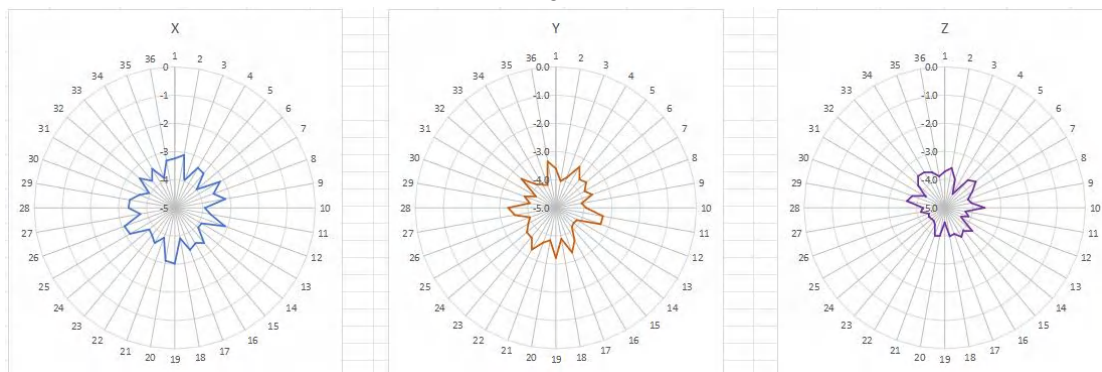
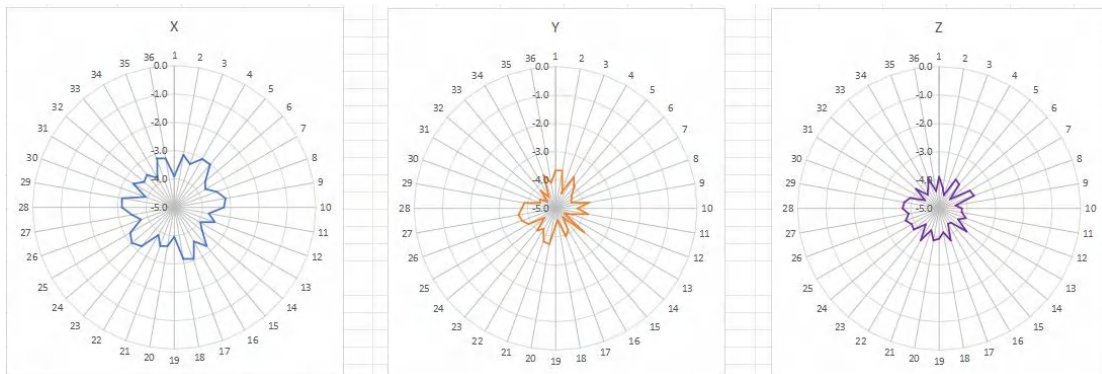
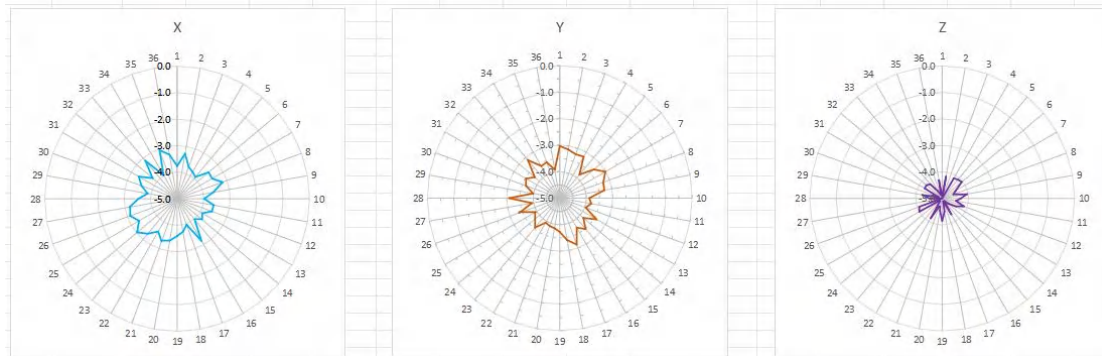


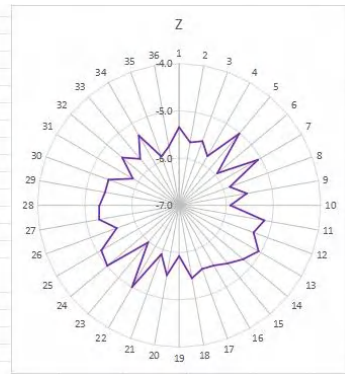
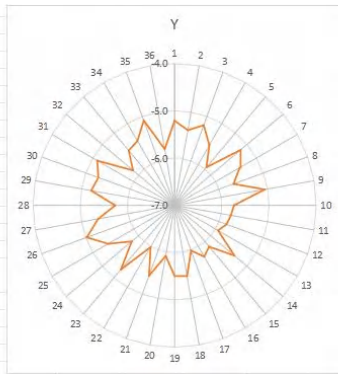
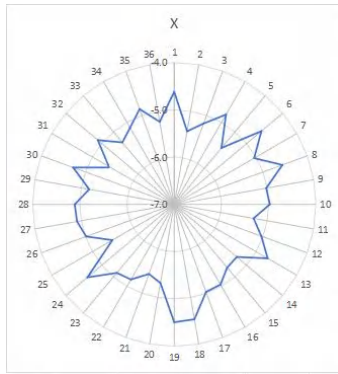
5. Gain

Frequency(MHz)	Ant	Peak Gain	Ant	Peak Gain
2400	WIFI1	-2.95	WIFI2	-3.12
2410	WIFI1	-3.37	WIFI2	-3.36
2420	WIFI1	-3.50	WIFI2	-3.49
2430	WIFI1	-3.62	WIFI2	-3.61
2440	WIFI1	-3.41	WIFI2	-3.40
2450	WIFI1	-3.03	WIFI2	-3.21
2460	WIFI1	-3.32	WIFI2	-3.30
2470	WIFI1	-3.46	WIFI2	-3.44
2480	WIFI1	-3.45	WIFI2	-3.51
2490	WIFI1	-3.42	WIFI2	-3.40
2500	WIFI1	-3.02	WIFI2	-3.01
5200	WIFI1	-4.15	WIFI2	-4.18
5300	WIFI1	-4.51	WIFI2	-4.22
5500	WIFI1	-4.23	WIFI2	-4.51
5800	WIFI1	-4.28	WIFI2	-4.55

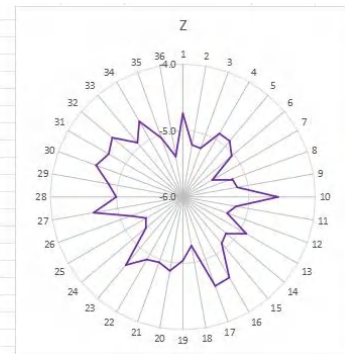
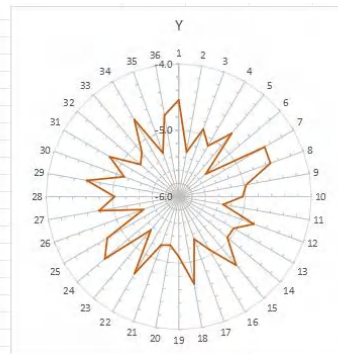
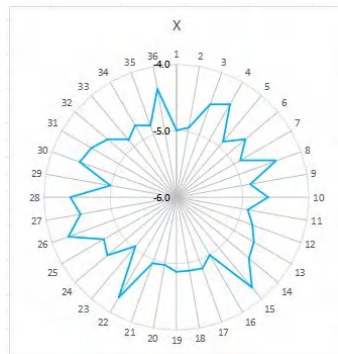
Frequency (MHz)	Ant	Peak Gain	Ant	Peak Gain	Ant	Peak Gain
800	LTE1	-2.46	LTE2	-2.21	LTE3	-2.84
900	LTE1	-3.63	LTE2	-3.21	LTE3	-3.17
1700	LTE1	-3.62	LTE2	-2.89	LTE3	-3.11
1800	LTE1	-4.75	LTE2	-3.95	LTE3	-4.56
1900	LTE1	-4.62	LTE2	-3.88	LTE3	-4.05
2000	LTE1	-4.73	LTE2	-3.58	LTE3	-3.6
2100	LTE1	-4.51	LTE2	-3.58	LTE3	-3.65
2200	LTE1	-4.55	LTE2	-3.63	LTE3	-3.67
2300	LTE1	-3.29	LTE2	-3.48	LTE3	-3.68
2400	LTE1	-3.32	LTE2	-2.57	LTE3	-3.56
2500	LTE1	-4.1	LTE2	-3.86	LTE3	-3.6
2600	LTE1	-4.28	LTE2	-3.75	LTE3	-3.97
2700	LTE1	-4.34	LTE2	-4.02	LTE3	-4.11

6. Test Directional diagram WIFI ANT1

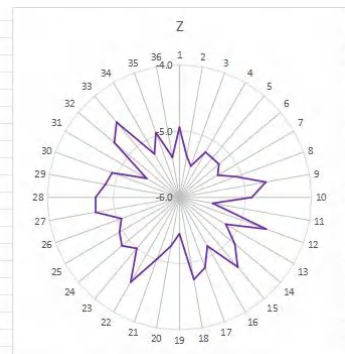
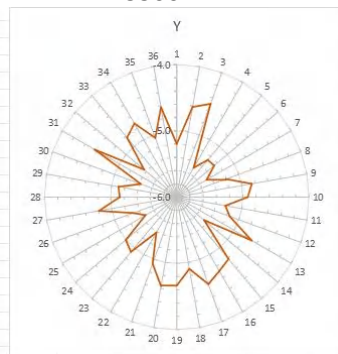
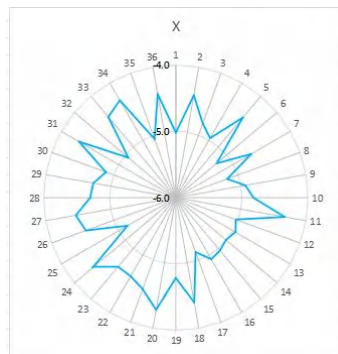




5300MHz

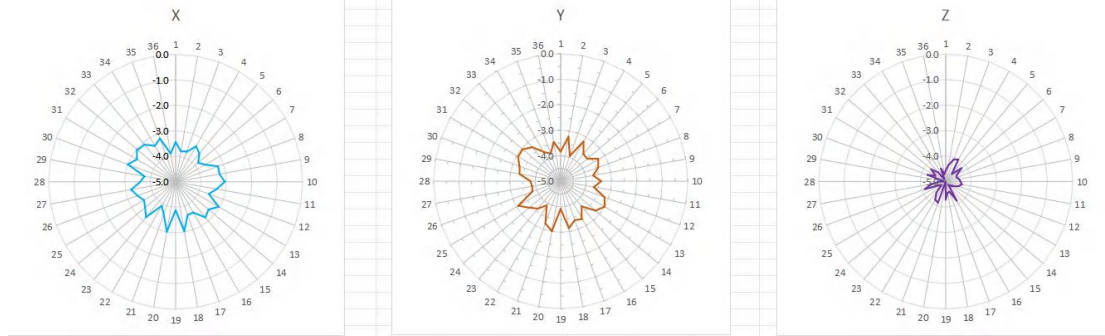


5500MHz

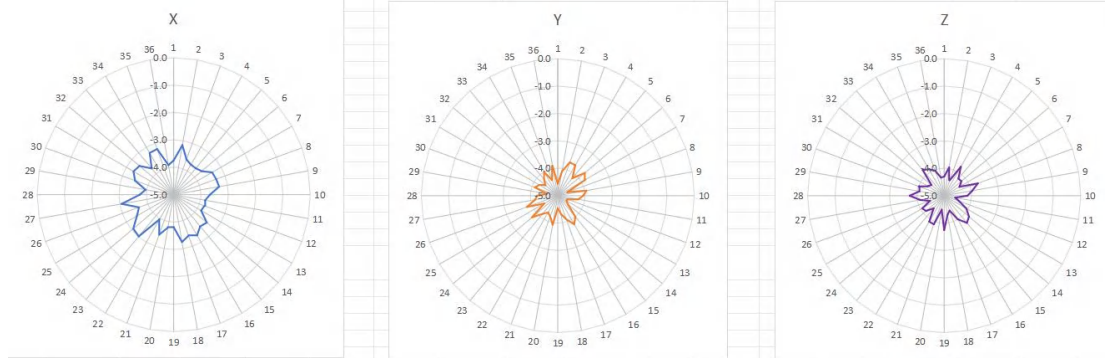


5800MHz

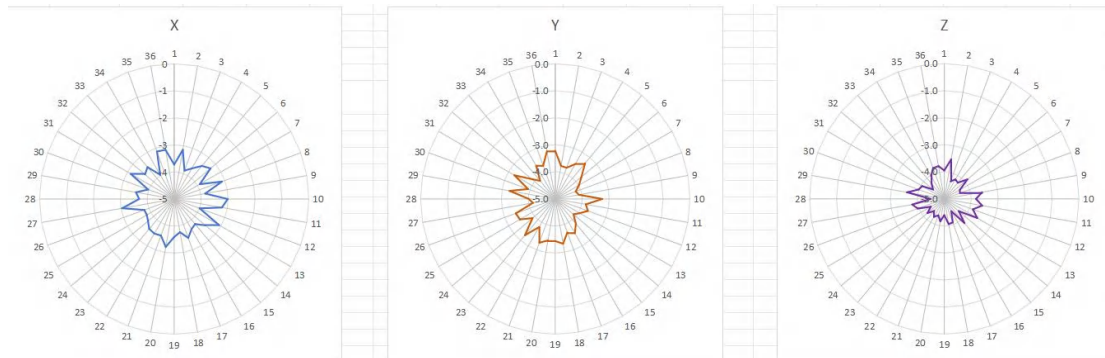
WIFI ANT2



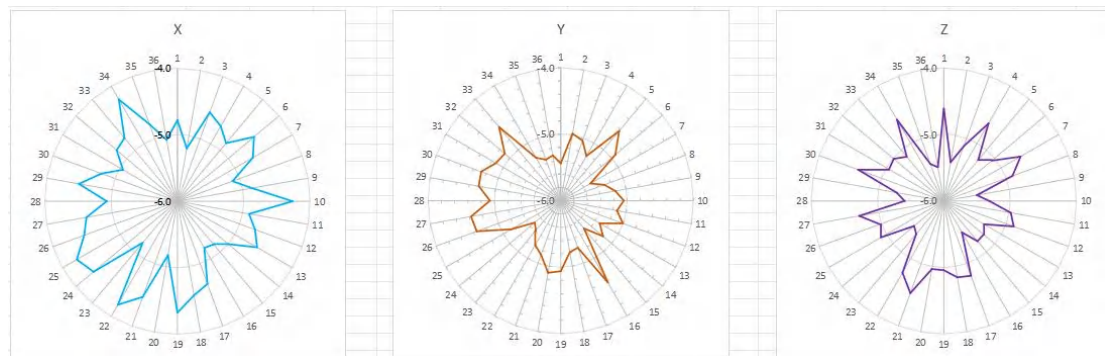
2400MHz



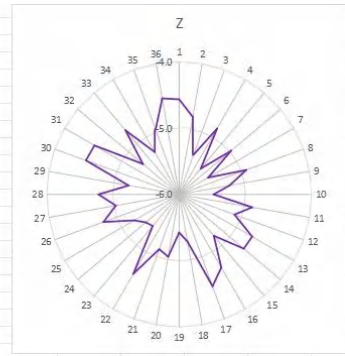
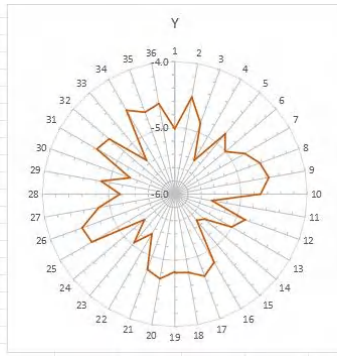
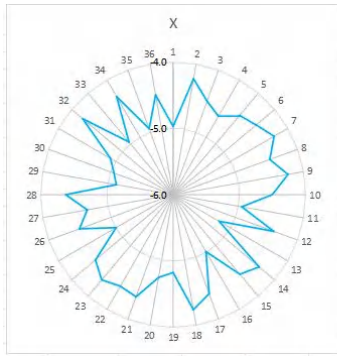
2440MHz



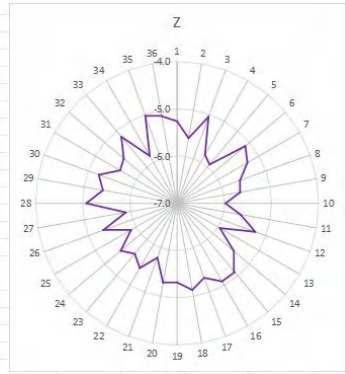
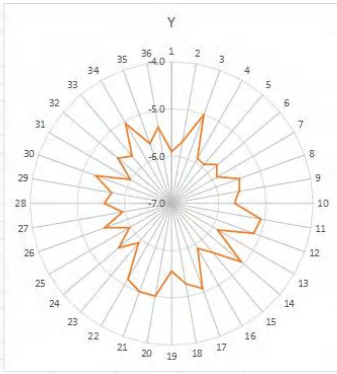
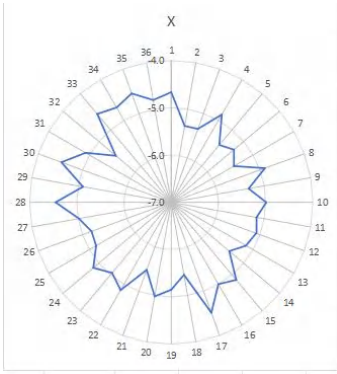
2500MHz



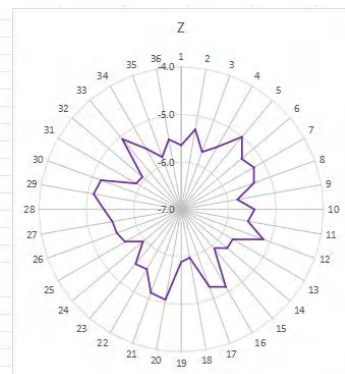
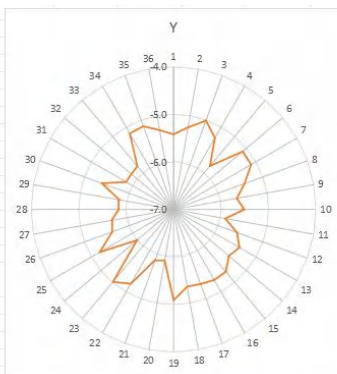
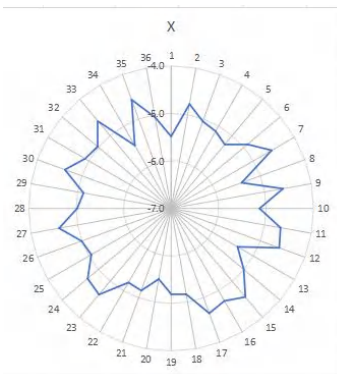
5200MHz



5300MHz

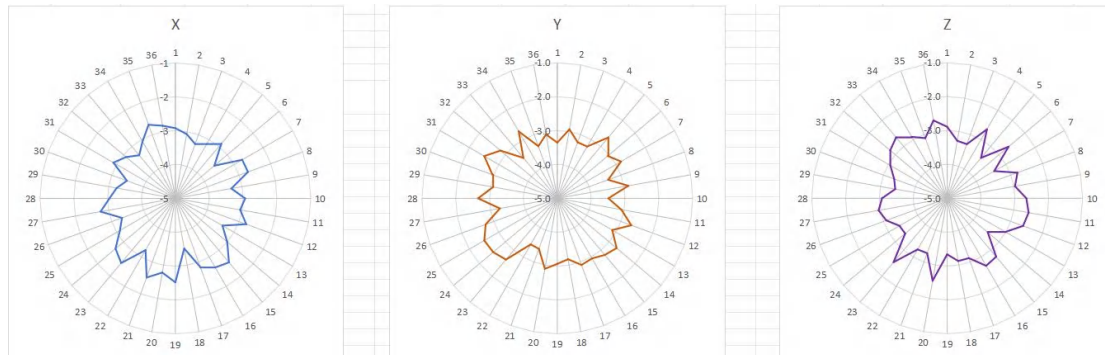


5500MHz

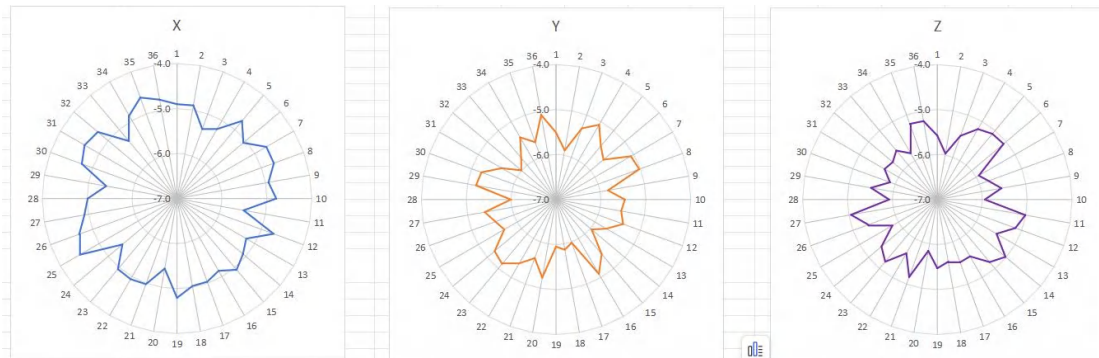


5800MHz

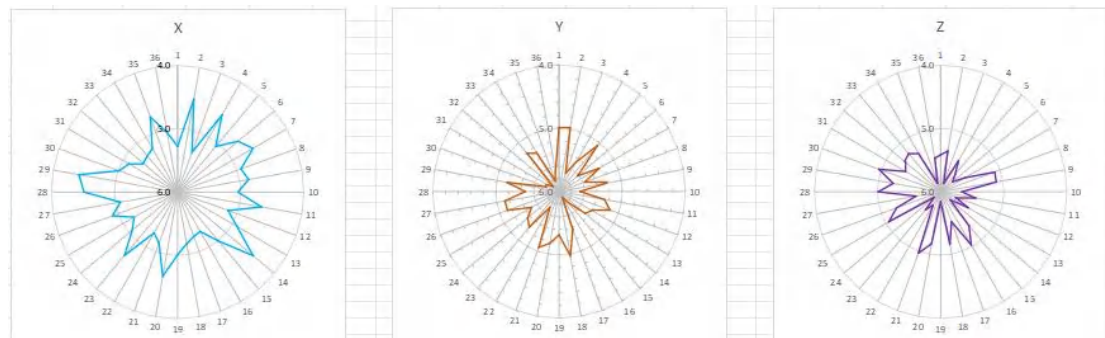
LTE1



800MHz

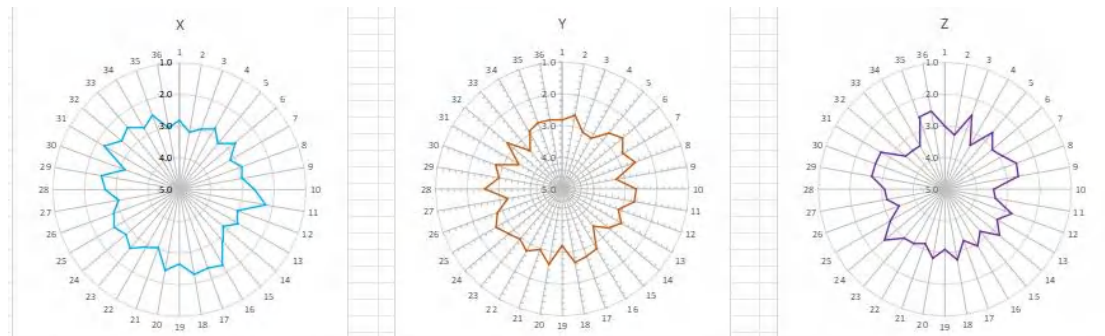


2000MHz

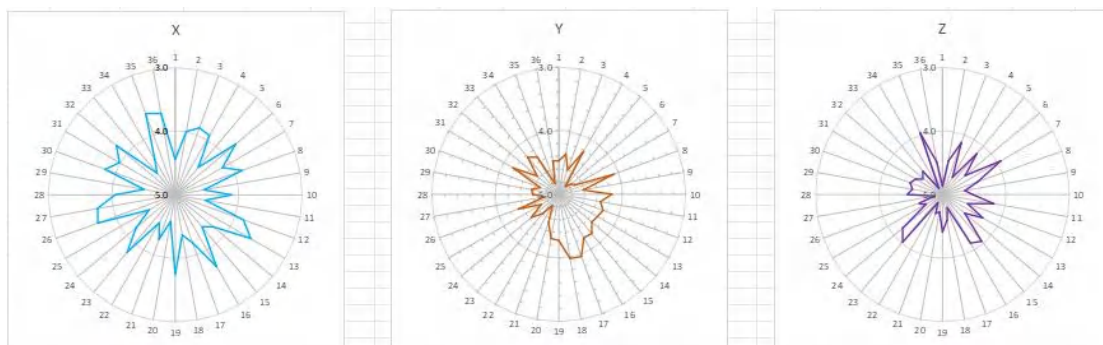


2700MHz

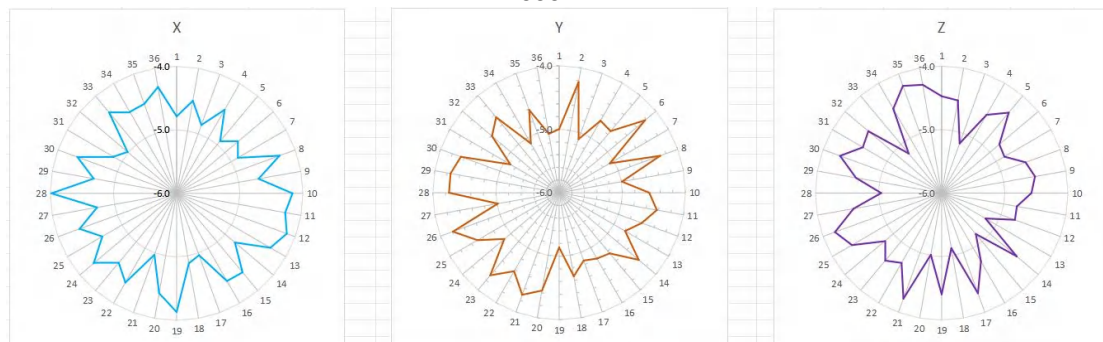
LTE2



800MHz

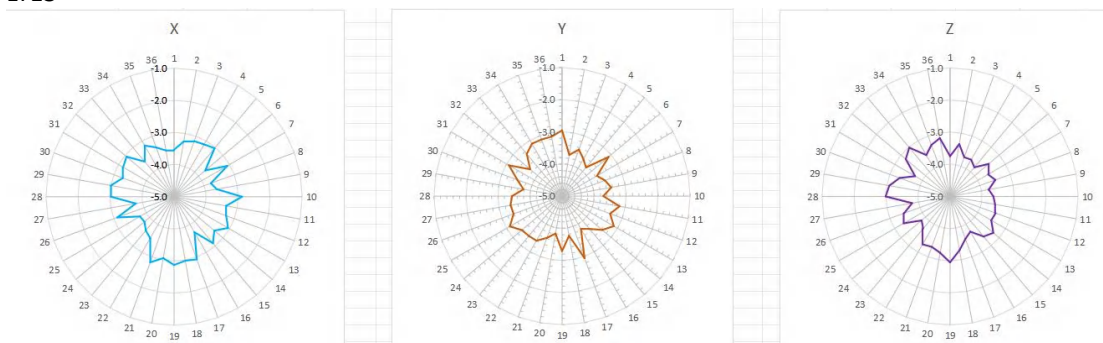


2000MHz

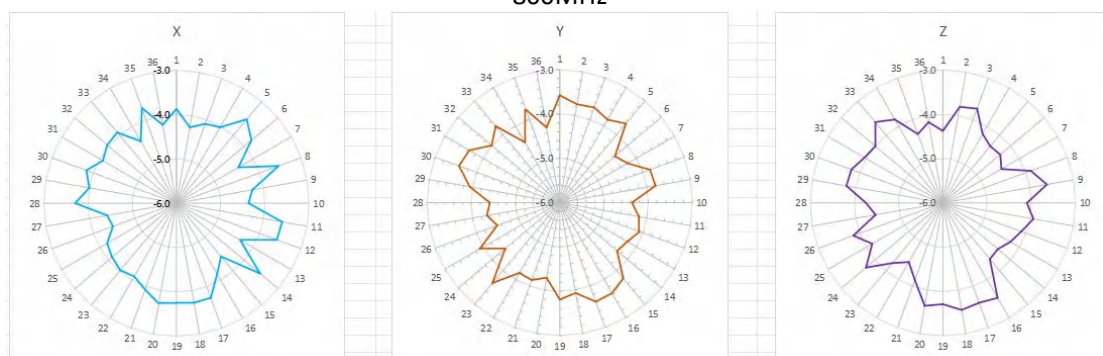


2700MHz

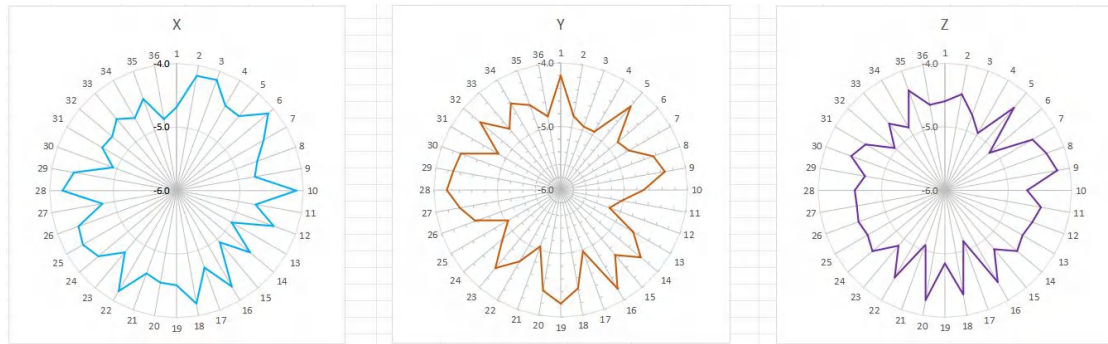
LTE3



800MHz



2000MHz



2700MHz

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