

Product Specification

Material name: E7175 - ANT2 antenna FPC

KXHC code: _____

Sample color: BLACKApplicable model: E7175

Customer item No: _____

☒ Standard sample ☐ Limit sample

SUPPLIER: Shenzhen KeXinHuaCheng Technology Co., LTD

Structure	Project	Quality	Sale	Research and development	Sample delivery date

CUSTOMER: Shanghai Heyi

Department	Confirm	Date	State	Signature and seal
Structure:				
Test:				
project:				

Version number: V1.0

Address: 101, 201, Zhongkono Digital Technology Industrial Park, No. 7 Road, east of Guangming High-tech Park, Tianliao community, Yutang street, Guangming District, Shenzhen, Guangdong Province, China.

TEL: 0755-26013537

CATALOGUE

1、 INFORMATION AND PICTURES ☒

2、 ELECTRICAL PERFORMANCE AND TESTREPORT ☒

3、 ENGINEERING DRAWING ☒

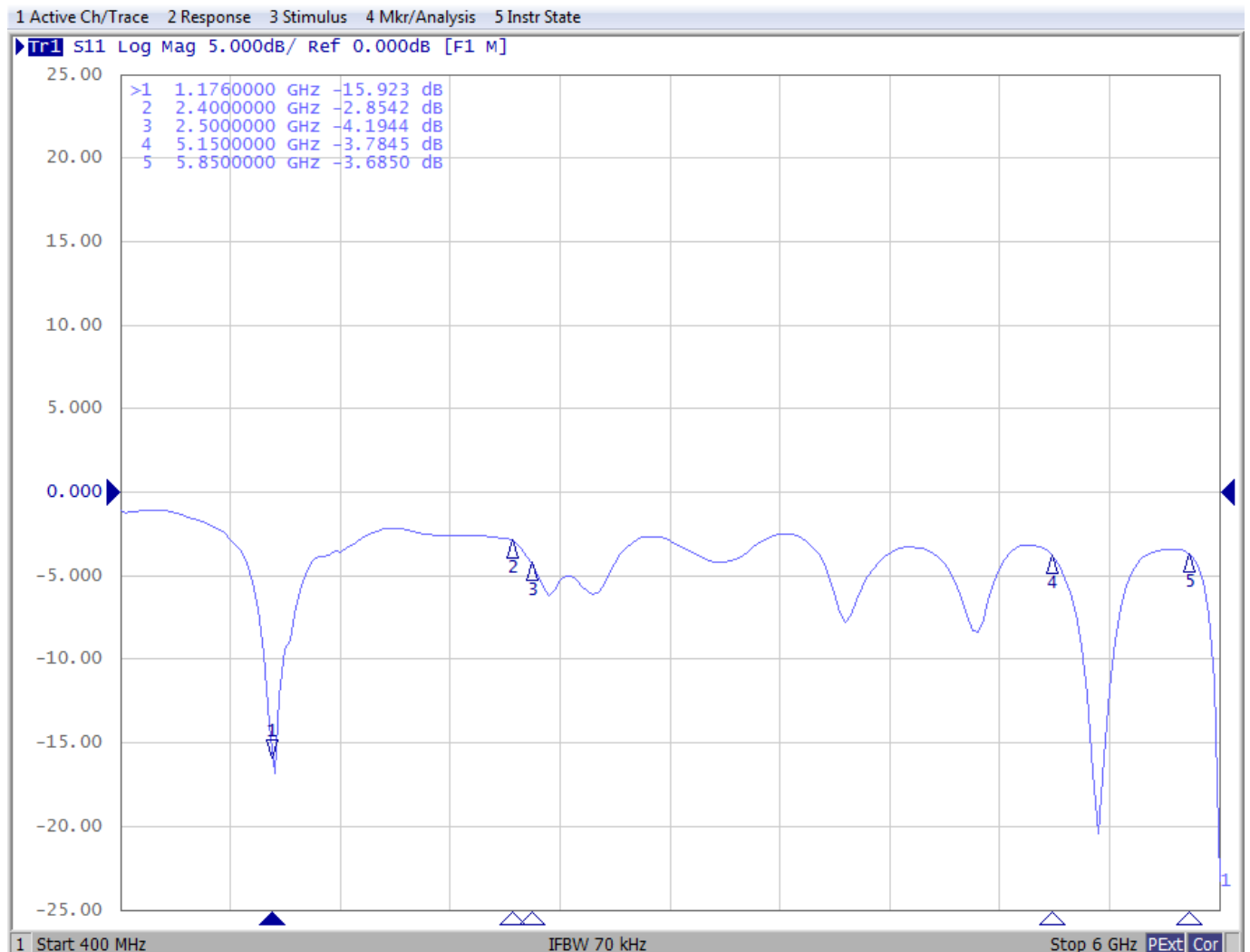
1、INFORMATION AND PICTURES

1.1 PICTURES



2、ELECTRICAL PERFORMANCE AND TESTREPORT

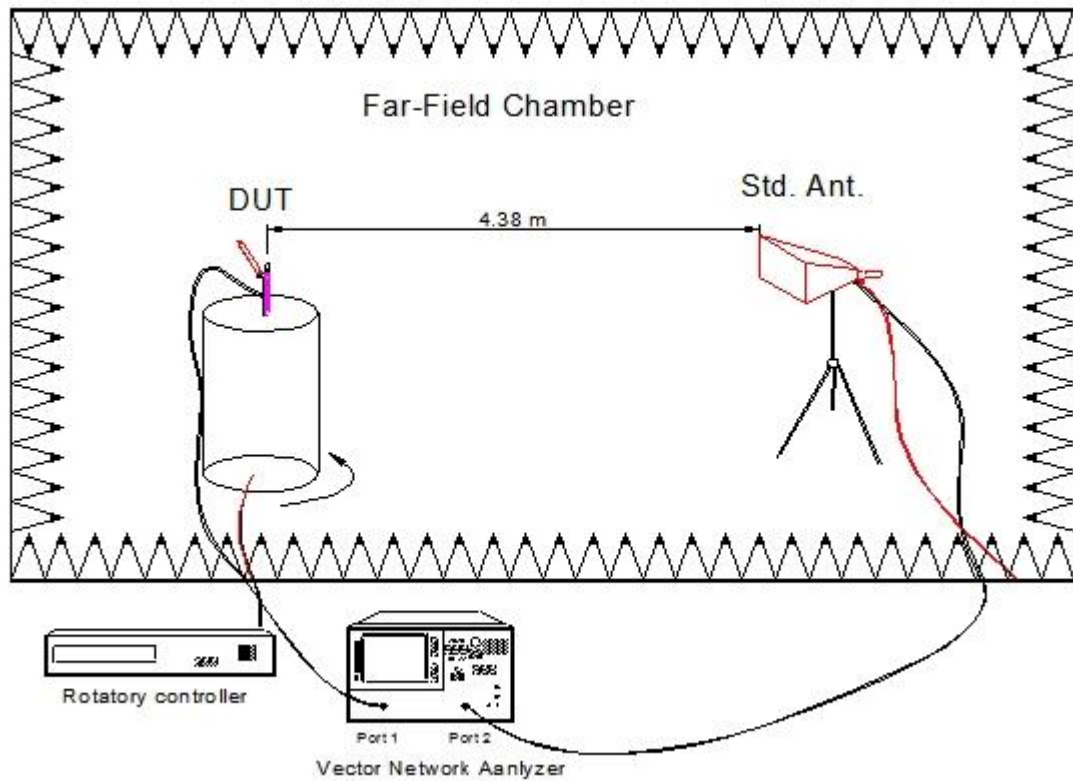
2.1 S11



2.2 Measure and Chamber

2-2-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data



2-2-2 Chamber definition

1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

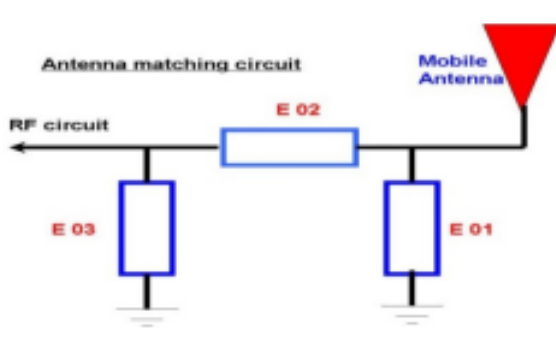
2.3 Passive test data

frequency(M Hz)	Gain(d B)	Efficiency(d B)	Efficiency(%)
1173	-3.96	-8.53	14%

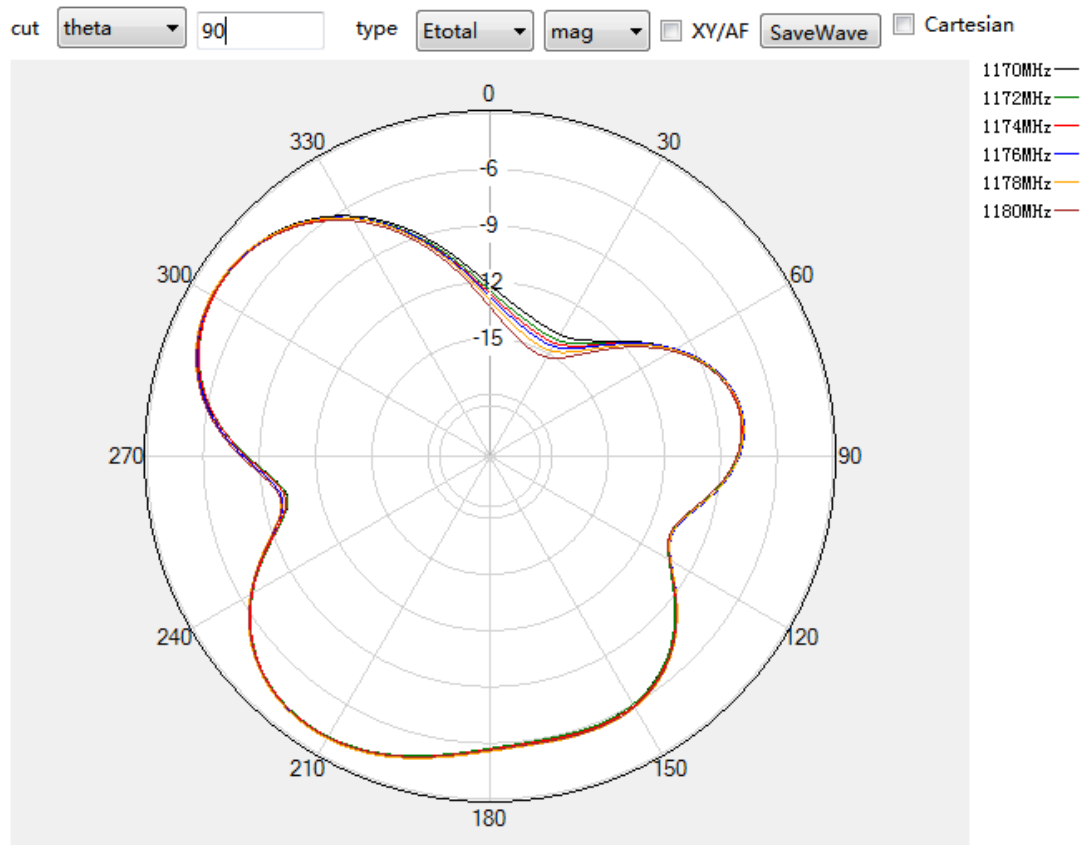
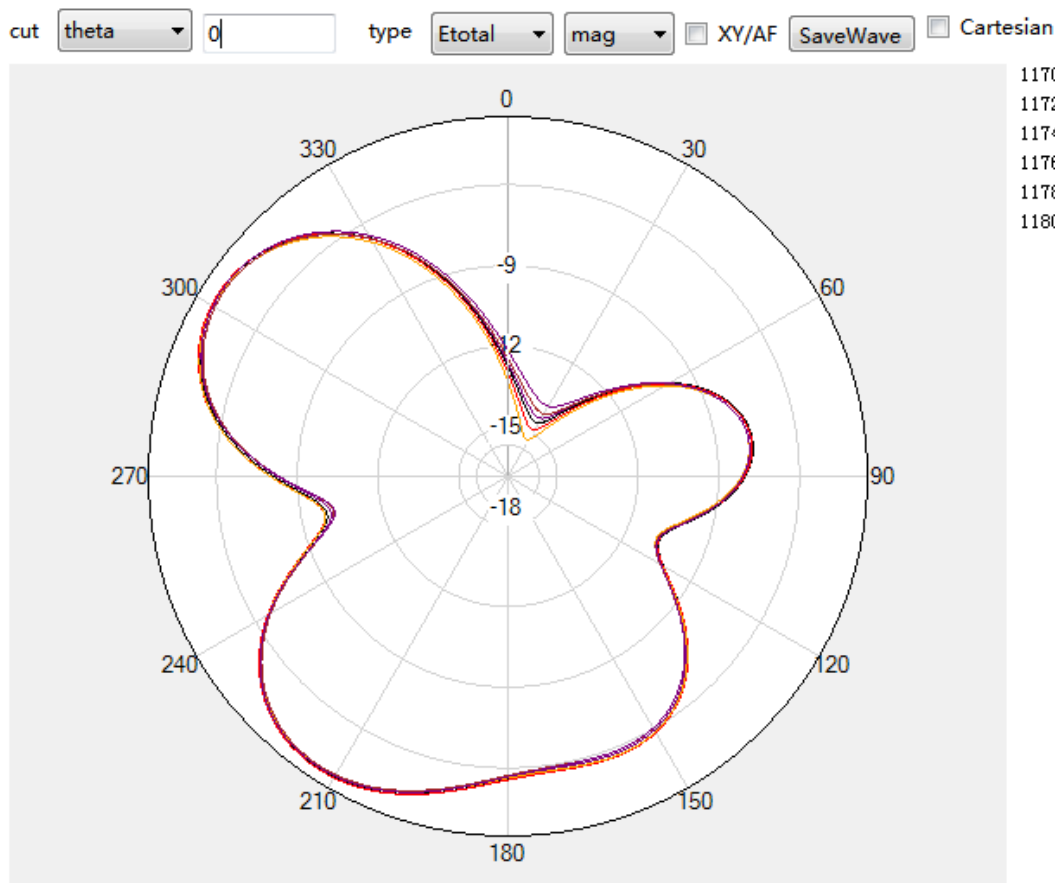
1174	-3.92	-8.49	14%
1175	-3.86	-8.44	14%
1176	-3.82	-8.40	14%
1177	-3.79	-8.38	15%
1178	-3.79	-8.39	14%
1179	-3.82	-8.42	14%
2400	-5.79	-12.50	6%
2410	-5.38	-12.15	6%
2420	-5.09	-11.71	7%
2430	-4.93	-11.52	7%
2440	-4.61	-11.14	8%
2450	-4.56	-10.83	8%
2460	-4.56	-10.59	9%
2470	-4.46	-10.32	9%
2480	-4.02	-9.83	10%
2490	-3.63	-9.48	11%
2500	-3.37	-9.31	12%
5150	-3.49	-10.91	8%
5200	-4.83	-12.13	6%
5250	-5.34	-12.25	6%
5300	-4.70	-12.18	6%
5350	-5.03	-12.22	6%
5400	-3.79	-10.98	8%

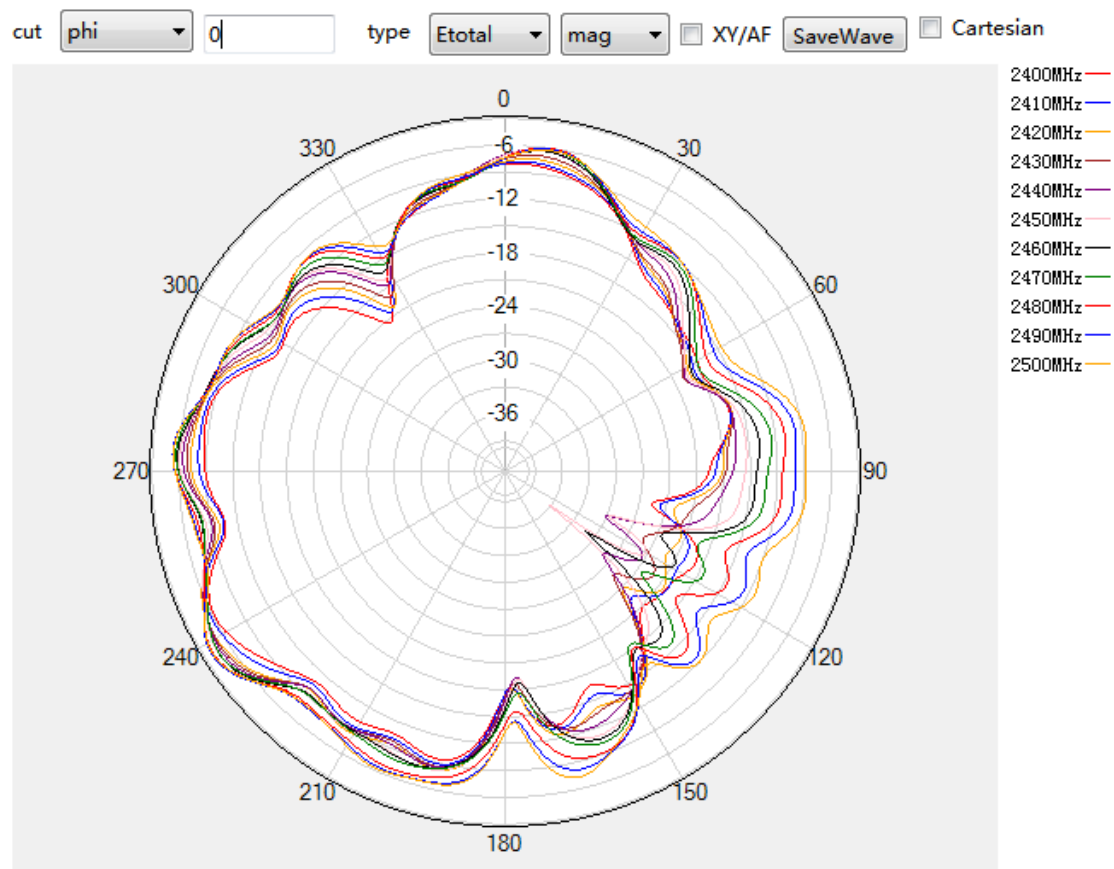
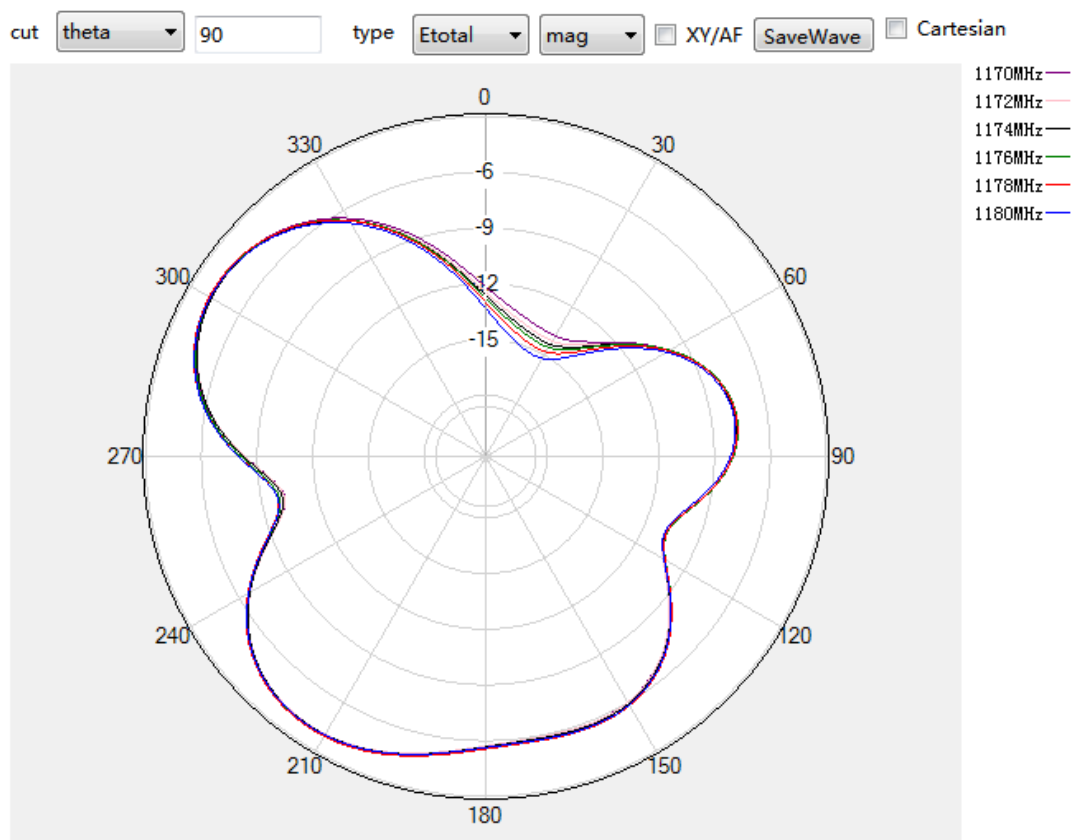
5450	-2.95	-10.10	10%
5500	-1.23	-9.02	13%
5550	-0.49	-8.32	15%
5600	-1.19	-8.90	13%
5650	-1.62	-9.76	11%
5700	-3.15	-10.91	8%
5750	-2.54	-10.61	9%
5800	-1.49	-8.63	14%
5850	-1.63	-9.35	12%

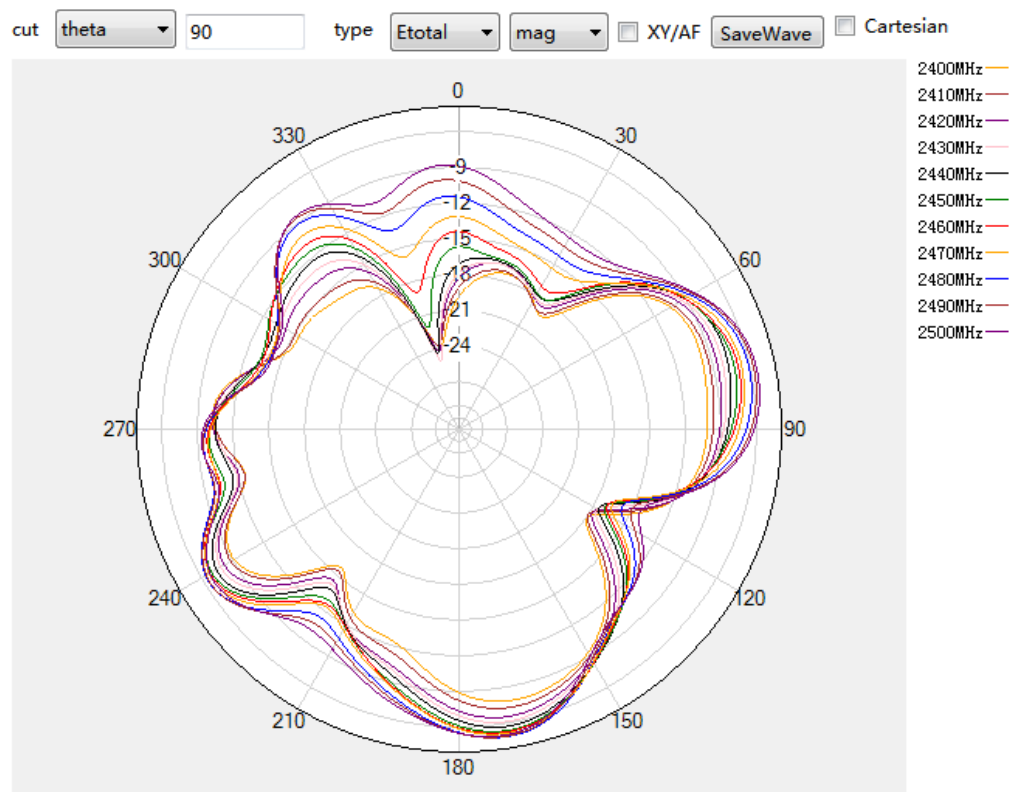
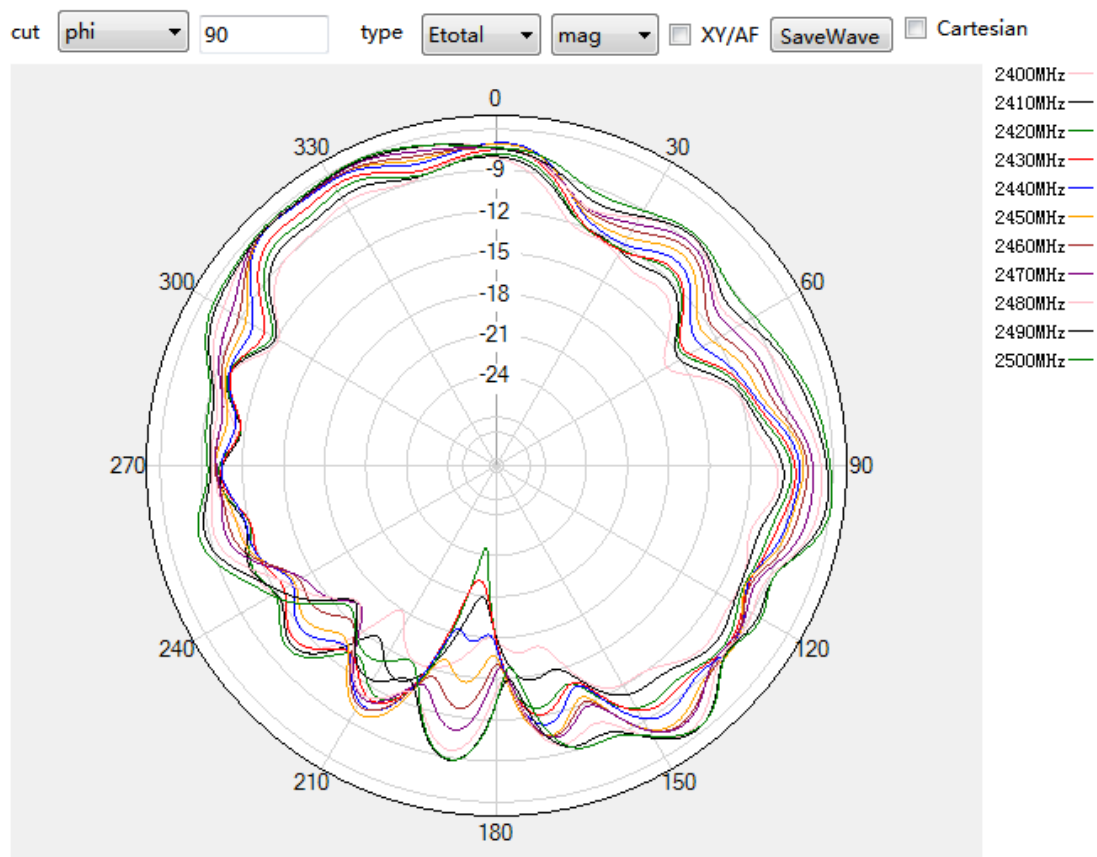
2.4 Match the circuit and switching logic

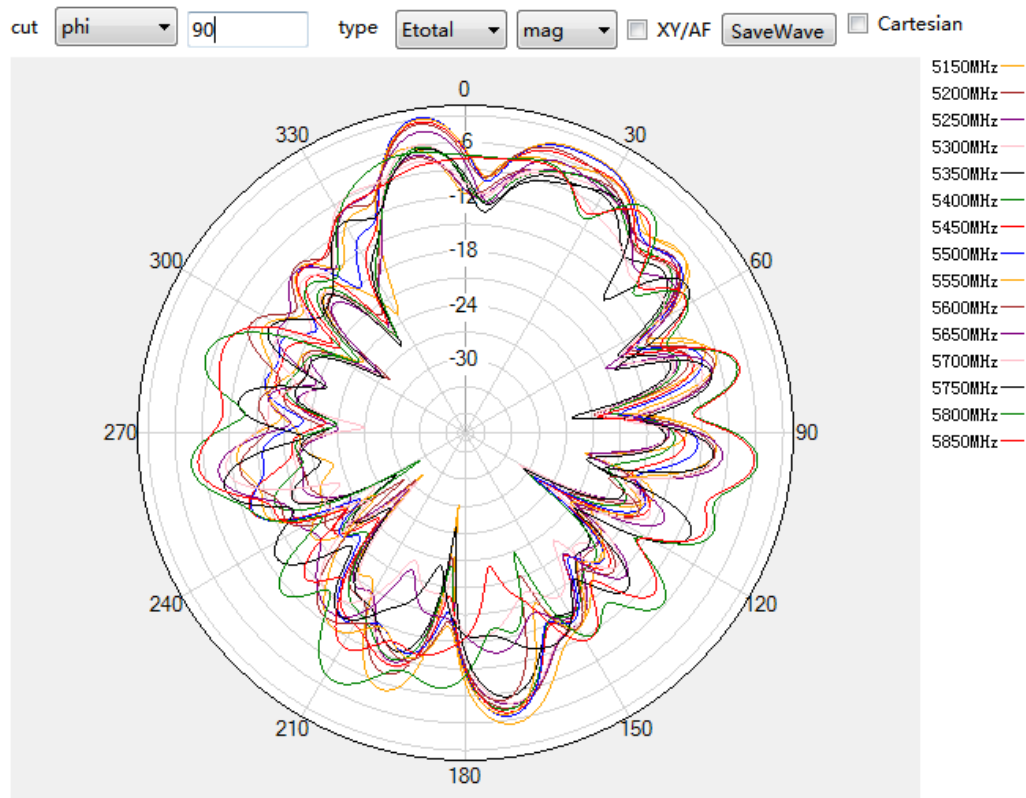
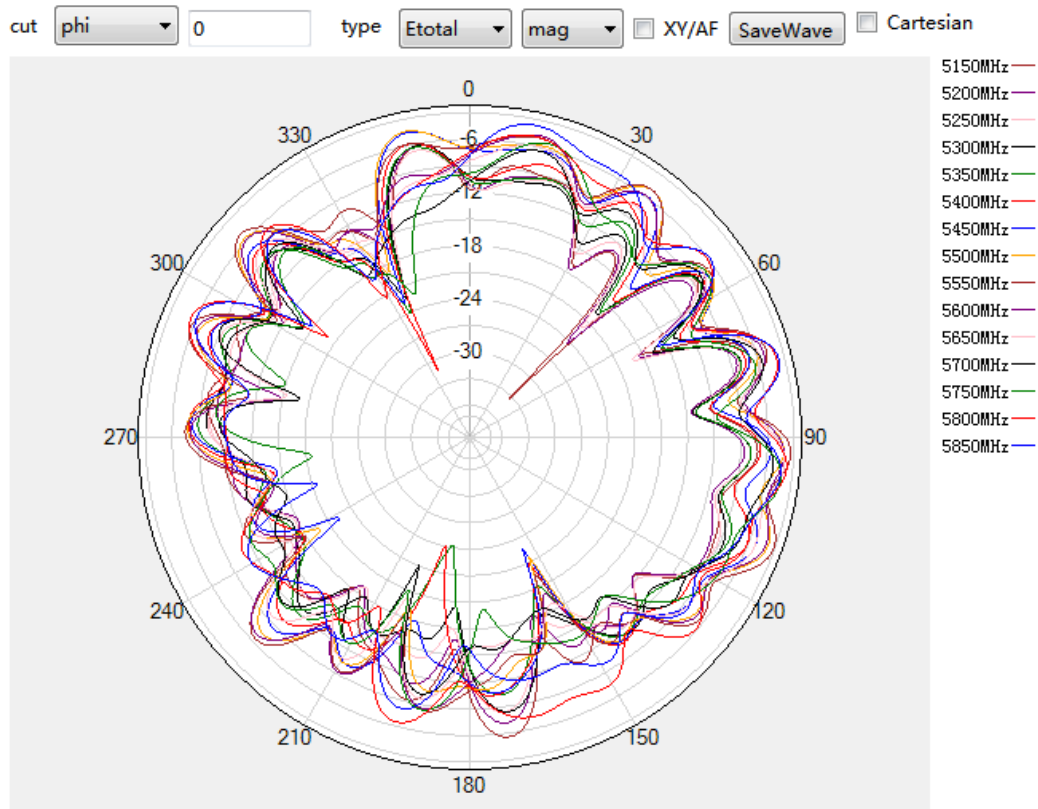
		GPS/WIFI
	Element	Value
	E01	N/A
	E02	0Ω
	E03	N/A
注：未修改原主板匹配		

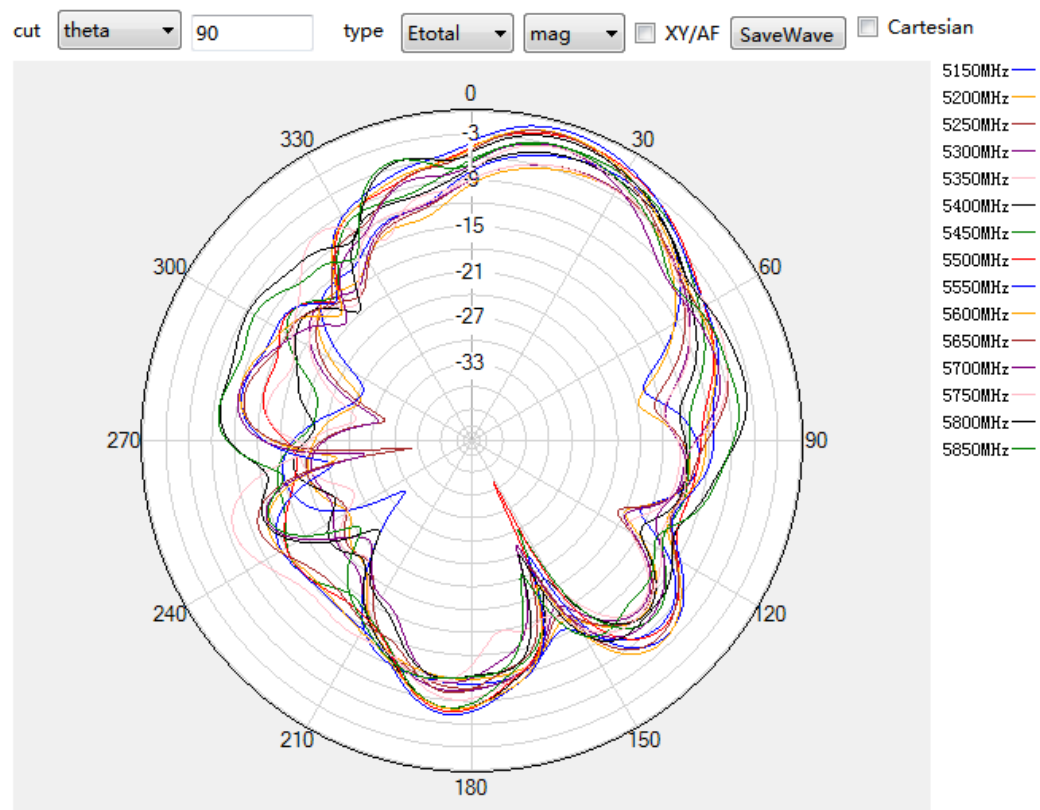
2.5Typical free space radiation pattern











1	2	3	4	5	6
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丝印字符
KH-E7175-ANT3-V0.4

标记	签名	修改内容
日期		

正面（走线面）

反面（背胶面）

技术要求:			
1. FPC基材规格:	PI基材: 铜箔(单面板): 双面胶:	12.5um 18um 3M9471	半对半 电解铜
2. 表面处理:	镀镍: 2~6um 表面油墨颜色: 印刷字体颜色:	镀金: ≥0.03um 壹光黑色 白色	按图纸要求 其它要求
3. 表面油墨要求:			
4. 可靠性要求:	1. 可靠性测试: 盐水喷雾试验48H恒温恒湿试验\冷热冲击试验. 2. 油墨表面要求对折不开裂, 油墨需均匀, 不可有污染物, 擦伤, 黑点, 起皱, 镀金不良等现象.		
5. 公差要求:	1. 外形公差±0.15; 2. 铜箔线路公差±0.10; 3. 铜箔到外形的尺寸公差±0.15; 4. 孔到孔位置公差±0.10; 孔到外形位置公差±0.15; 5. 金手指尺寸公差±0.30; 6. 其他未注尺寸按2D电子图档为准。公差栏自由公差表管控。		
6. 重点管控尺寸:	*标注尺寸为重要尺寸, Cpk标注尺寸为CPK管控 CPK≥1.33, 其它参照2D图纸, 未注尺寸以菲林片检验为准(电性能测试OK)		
7. 环保要求:	ROHS2.0/HF/REACH		
8. 包装要求:	整版出货		

线路区域 基材区域

镀金区域 离型纸区域 手撕位区域

KEXIN HUACHENG 可信华成				
深圳市可信华成通信科技有限公司				
第三视角 0-5 ±0.05 5-30 ±0.08 30-50 ±0.10 50-80 ±0.12 角度 ±1°	项目名称	KH-231-029	日期	2023-04-24
	产品名称	ANT3 天线	设计	李森
	产品料号	2PFC22231029-S4	审核	MD 李森 RF 赖斌斌
	材料	FPC 电解铜	批准	
第 1 页, 共 1 页		单位	mm	比例 FIT 版本 S4