

Antenna Test Report

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Customer: 亿博通

Project:K55B3

RF Engineer:宋祖义

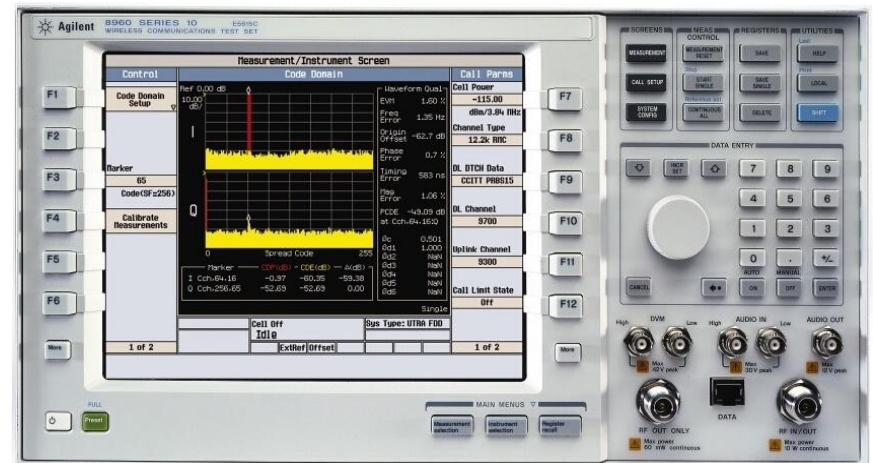
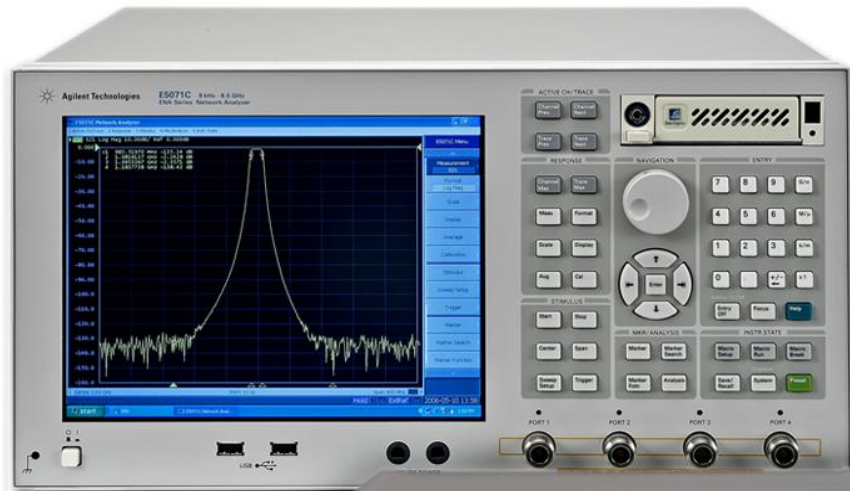
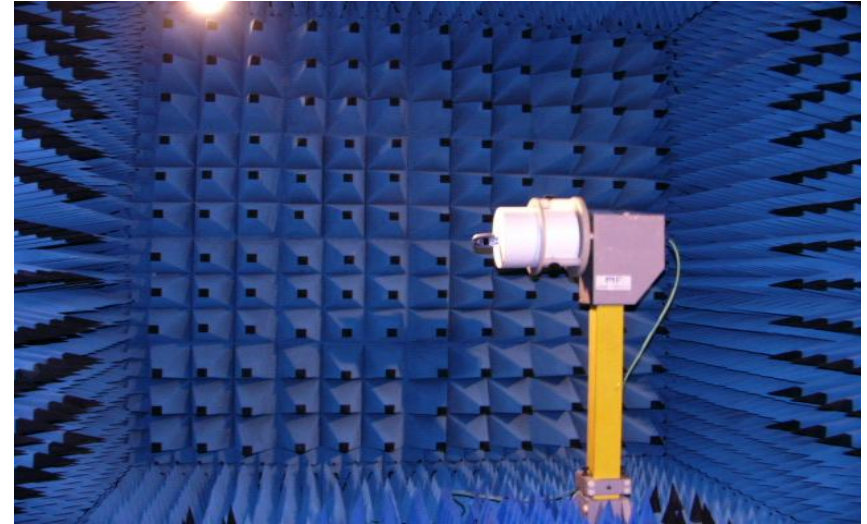
Testing Date:2024.08.15

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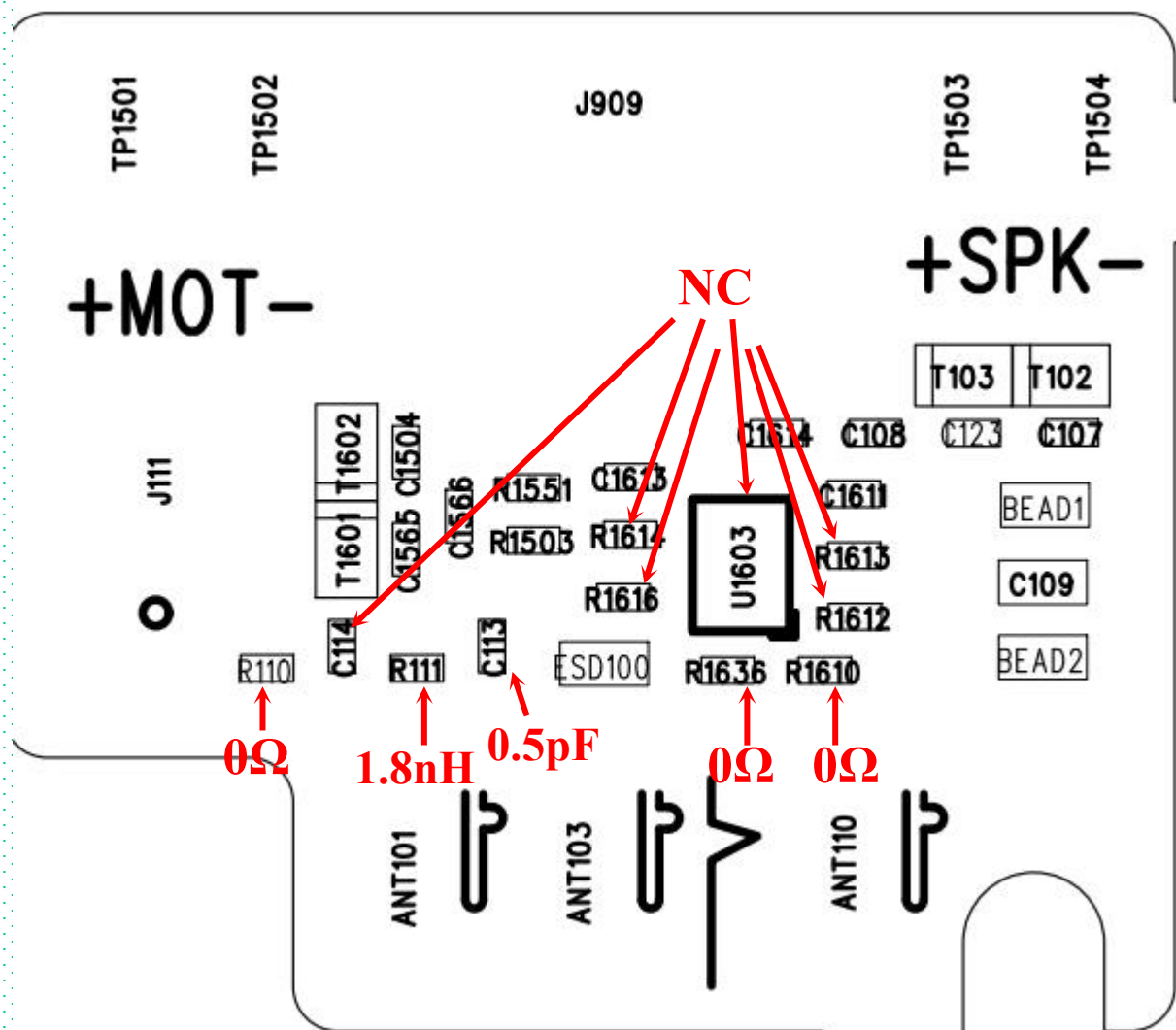
1. The Equipment of Active Test

- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



2.Switching Logic

小板匹配:



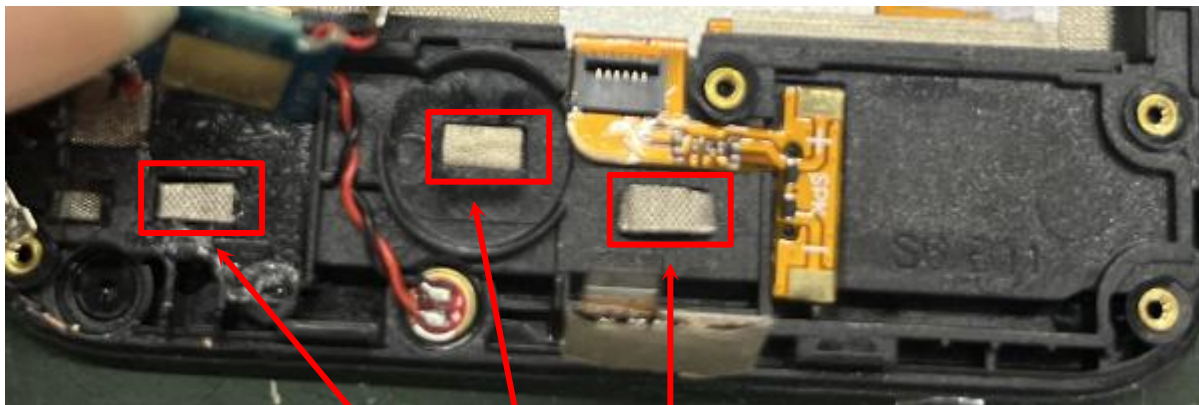
GPS/WIFI匹配

分集天线匹配

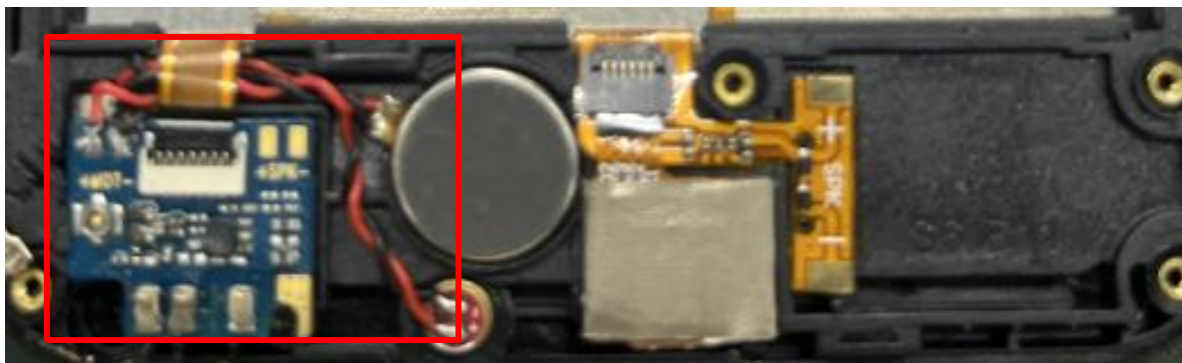
暂无修改

暂无修改

3. Environmental Disposal

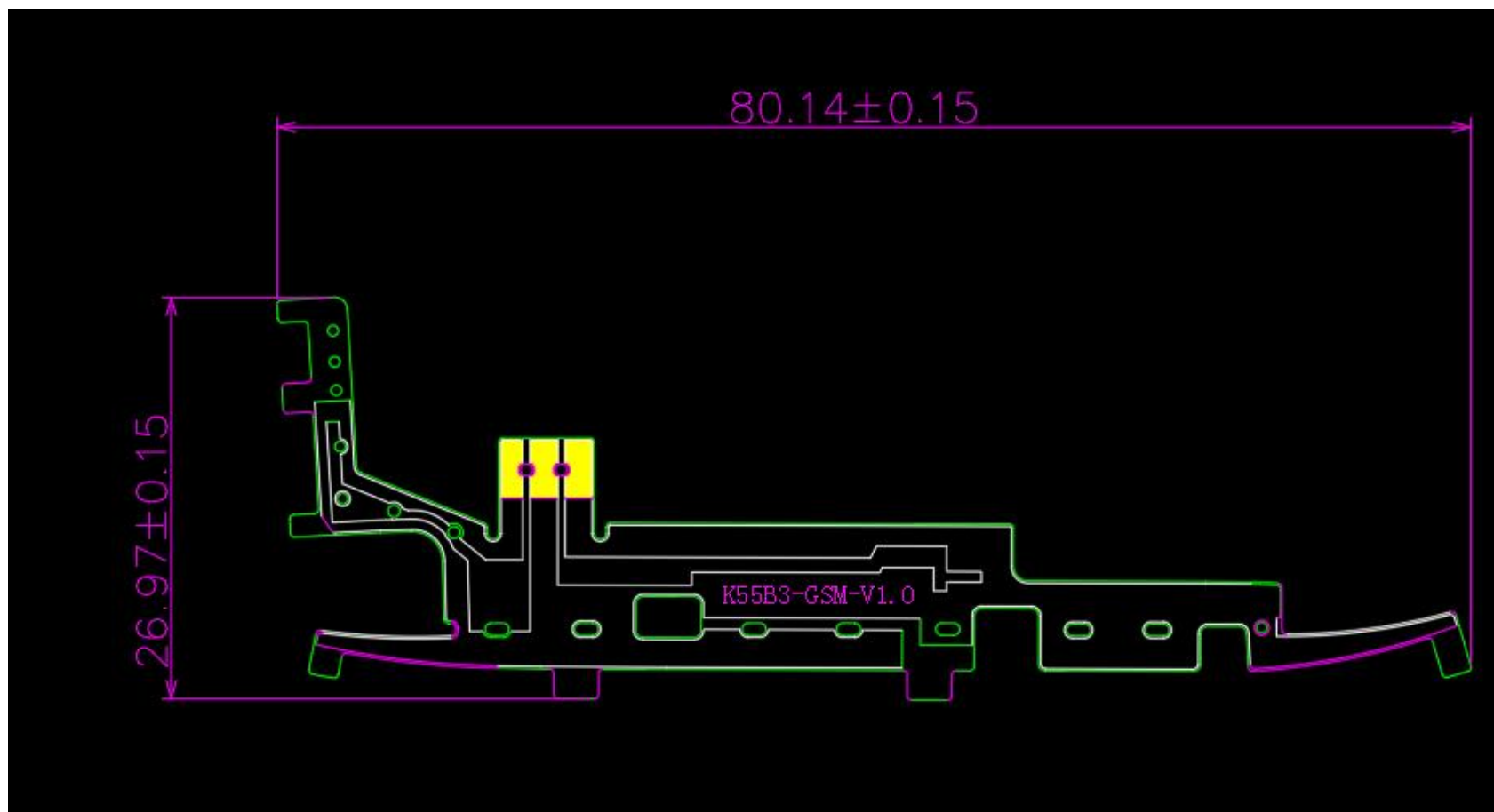


小板，马达，排线底下接
导电泡棉做接地处理

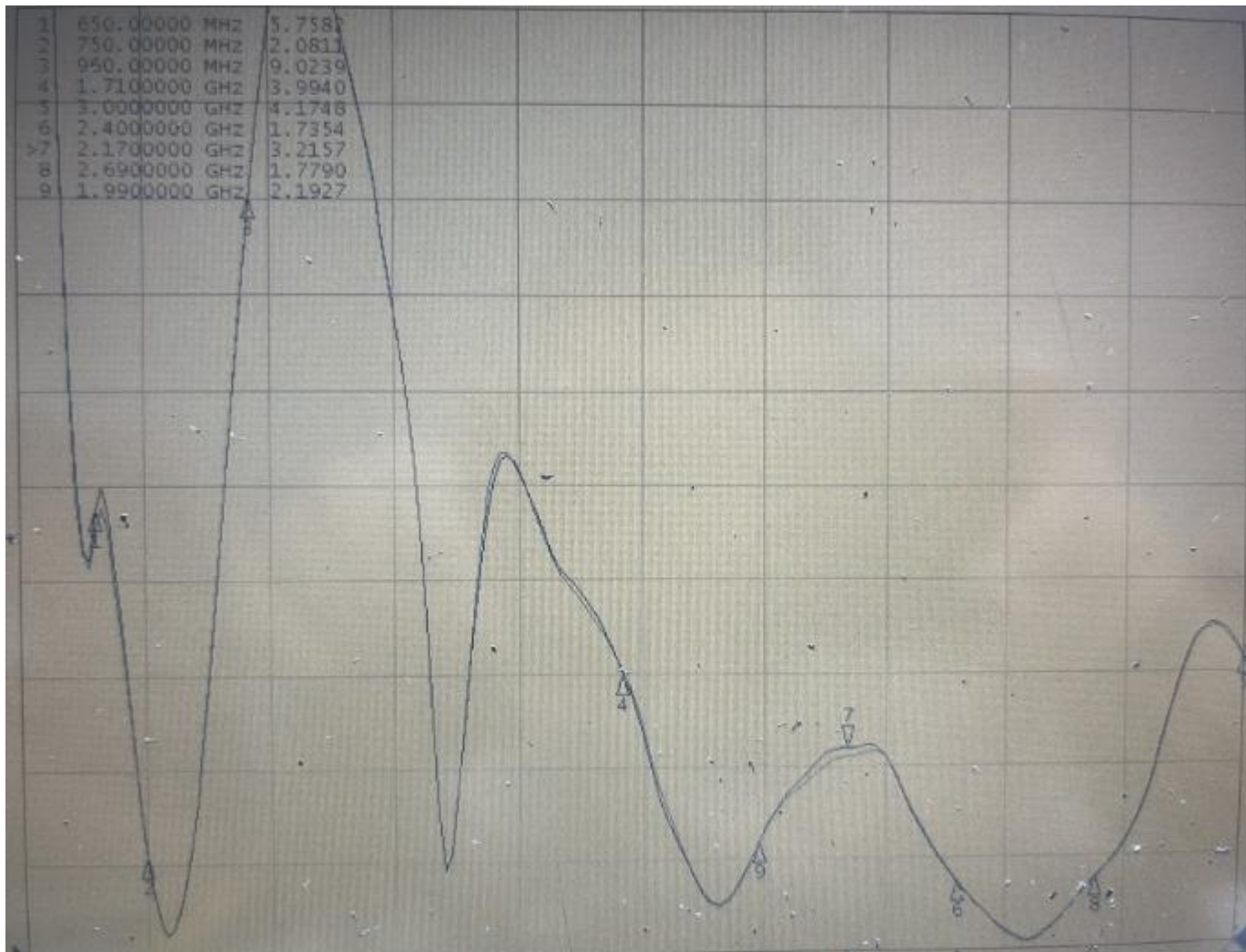


马达线，mic线拧线处理

主天线图纸



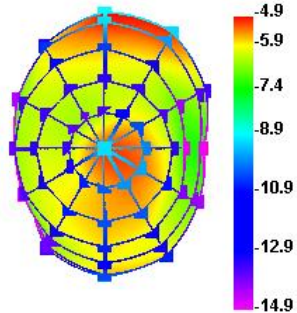
主天线无源图:



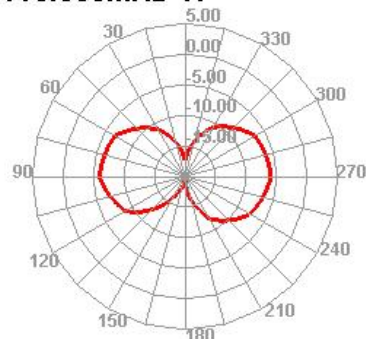
主天线增益表

主天线	频率段	增益值 (dBi)
B71	620-700MHZ	-2.8
LTE-B12/17	699-746MHZ	-0.2
GSM850 WCDMA-W5 LTE-B5	824-880MHZ	-0.3
GSM900	880-960MHZ	-3.0
GSM1800/1900 WCDMA-W2/4 LTE-B2/3/4/66	1710-2200MHZ	0.6
LTE-B41	2500-2690MHZ	1.0

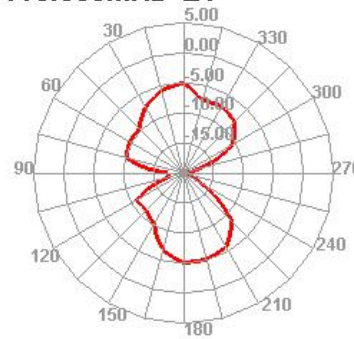
660.000MHz



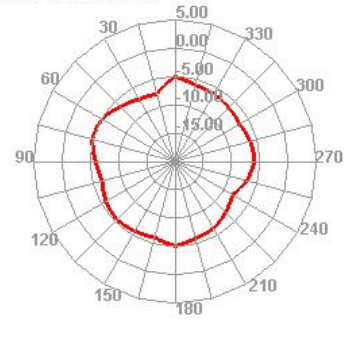
660.000MHz H



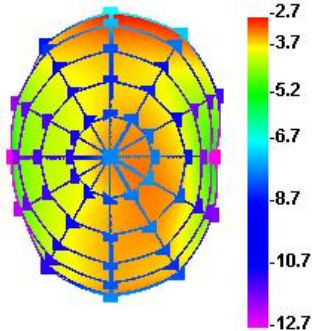
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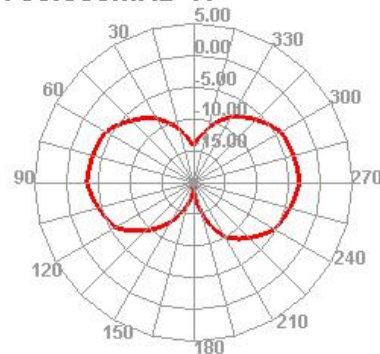
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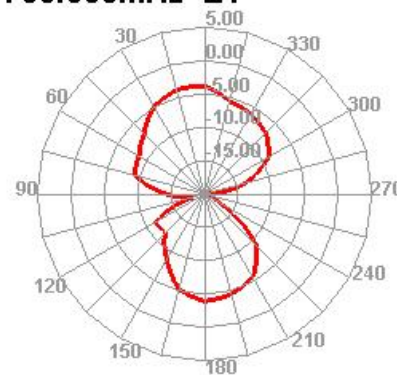
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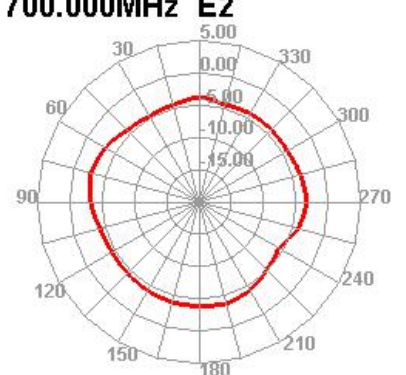
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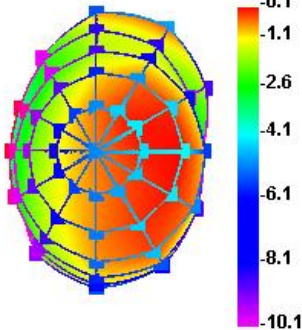
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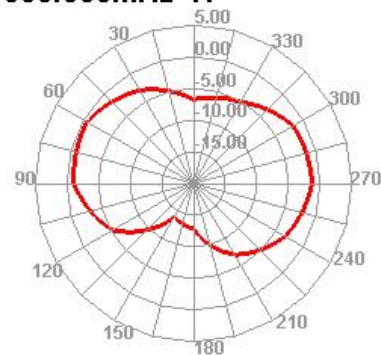
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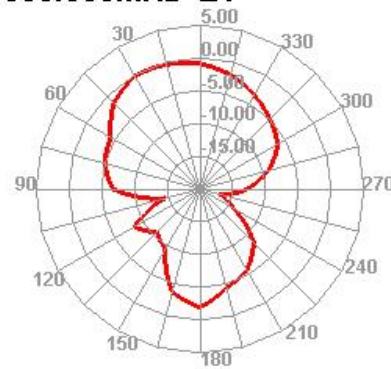
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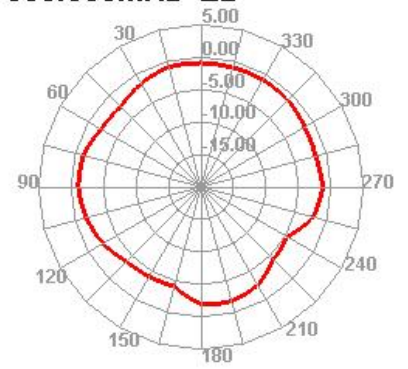
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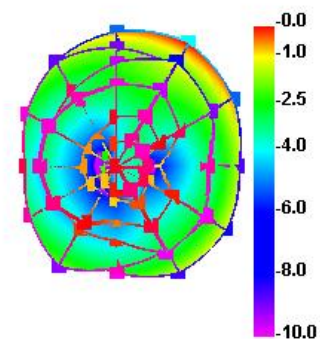
800.000MHz E1



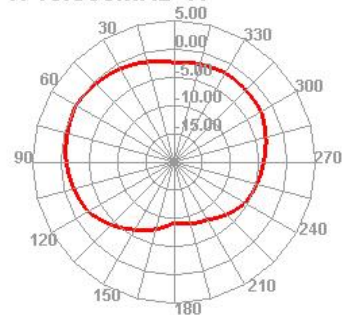
800.000MHz E2



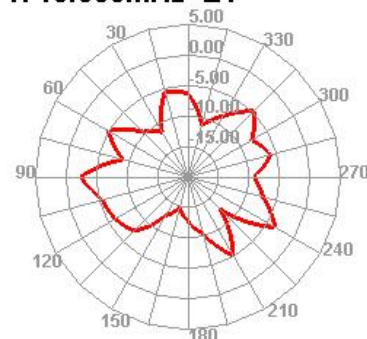
1710.000MHz



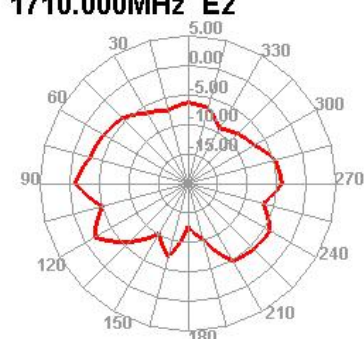
1710.000MHz H



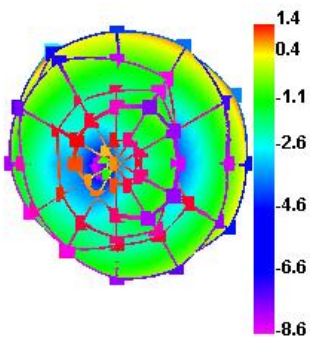
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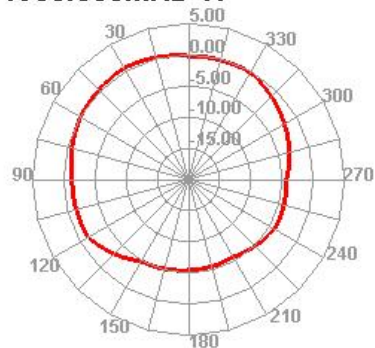
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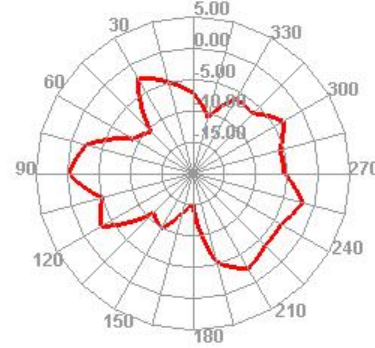
1900.000MHz



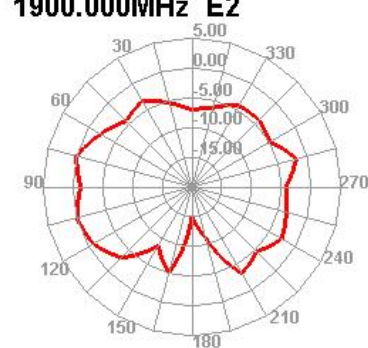
1900.000MHz H



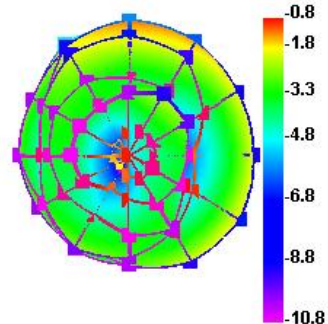
1900.000MHz E1



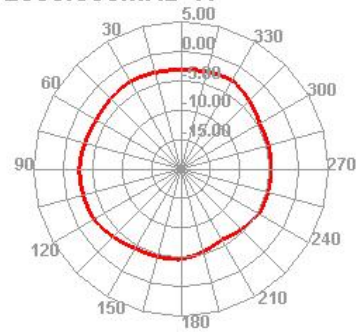
1900.000MHz E2



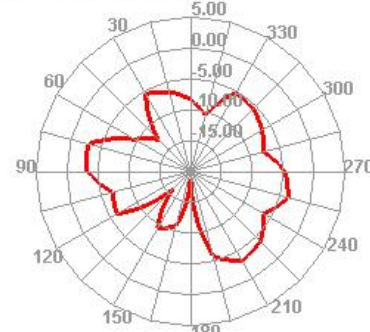
2000.000MHz



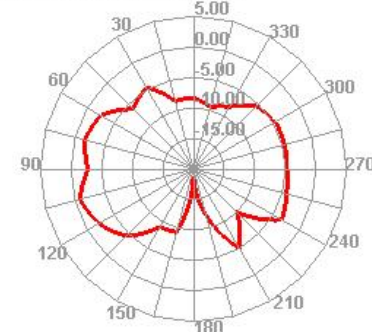
2000.000MHz H



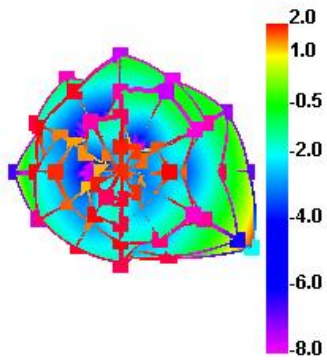
2000.000MHz E1



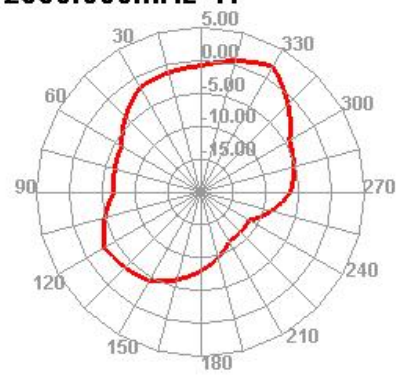
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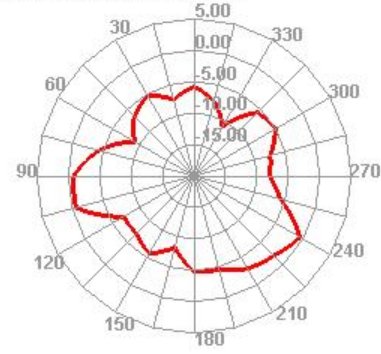
2550.000MHz



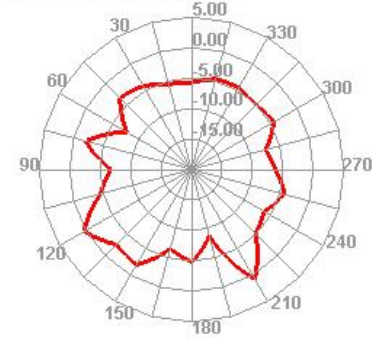
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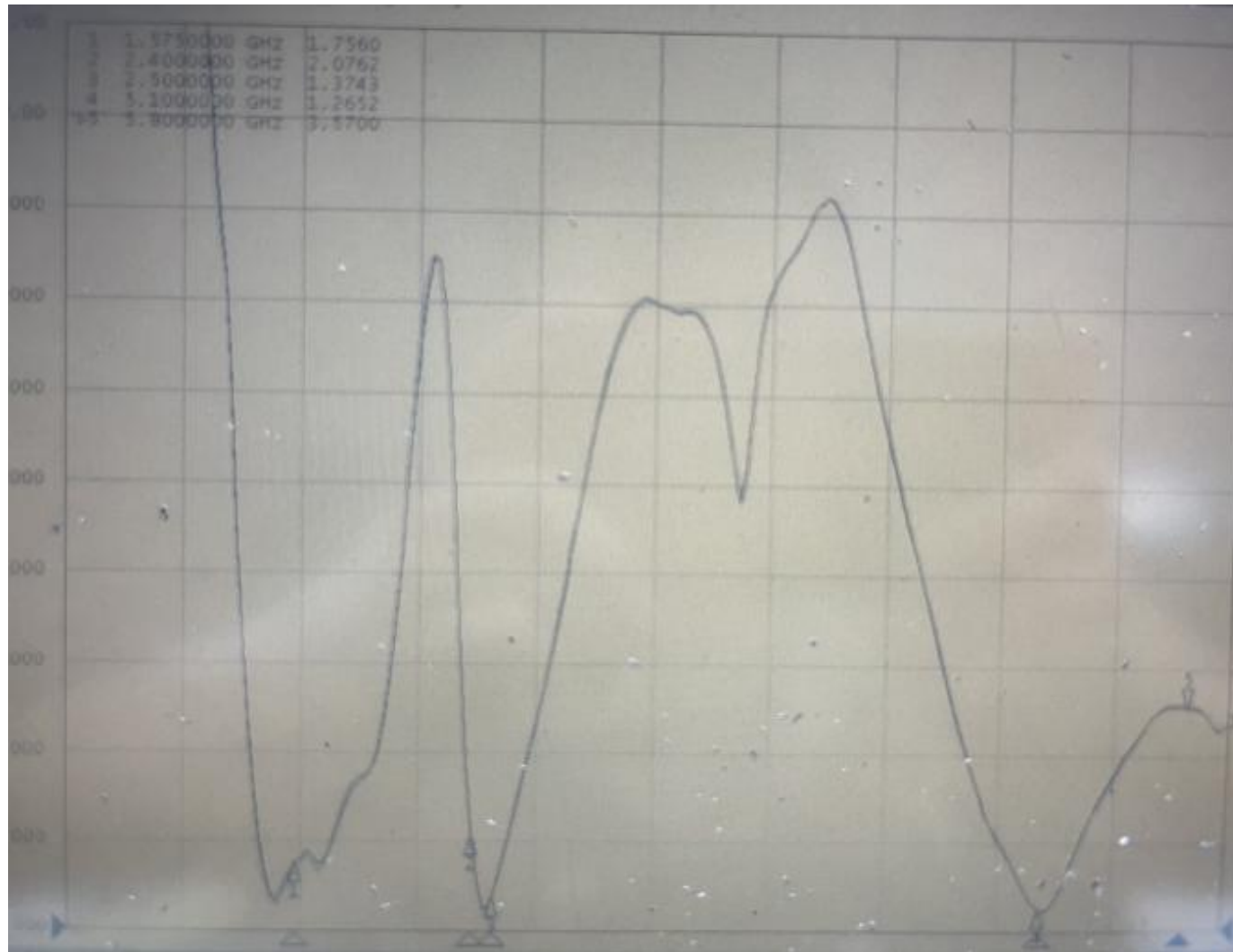
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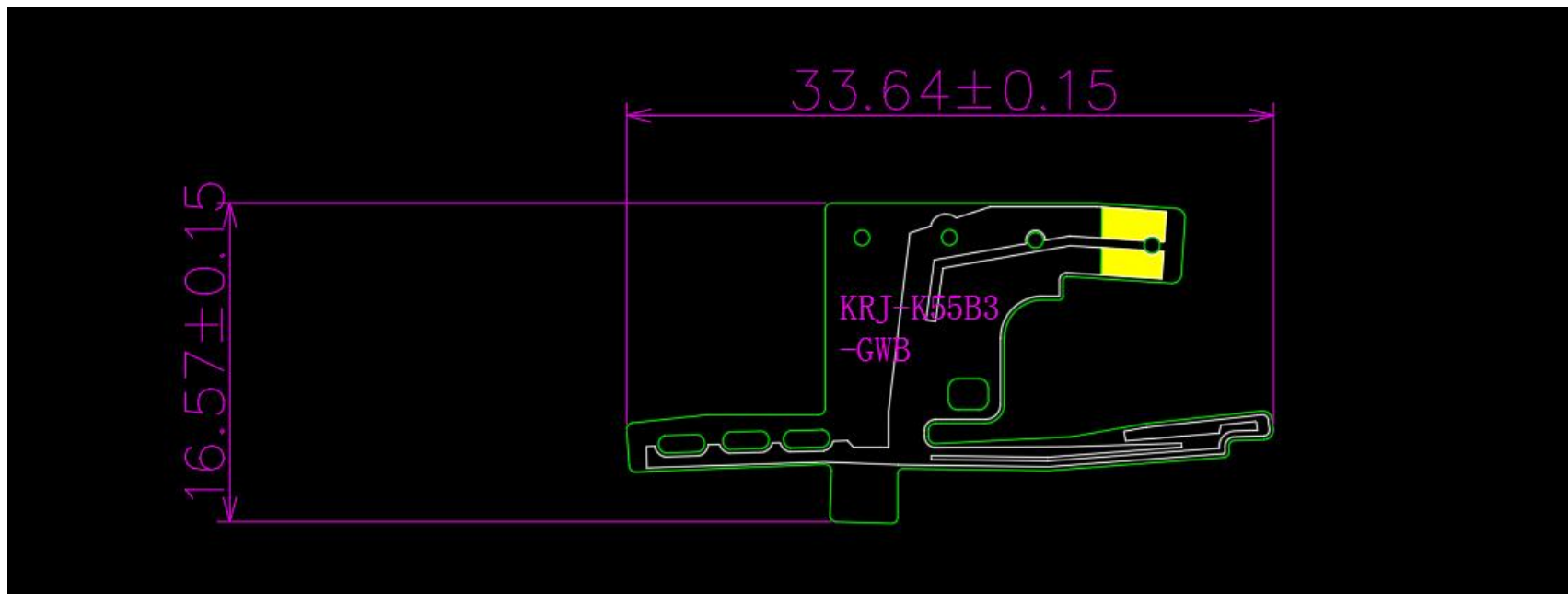
2550.000MHz E2



三合一天线无源:



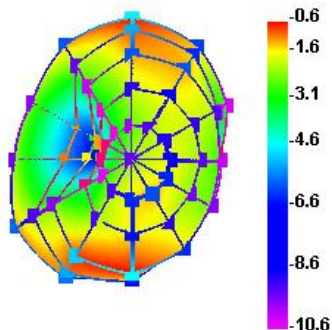
三合一天线图纸



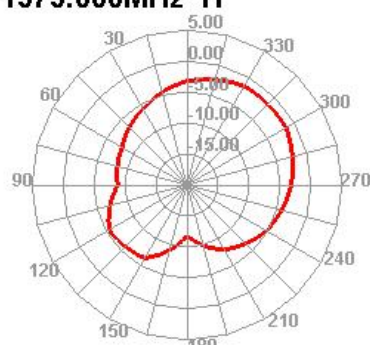
三合一天线增益表

三合一天线	频率段	增益值 (dBi)
GPS	1575MHZ	0.1
2.4G WIFI/BT	2400-2500MHZ	0.3
5.8G WIFI	5100-5800MHZ	0.8

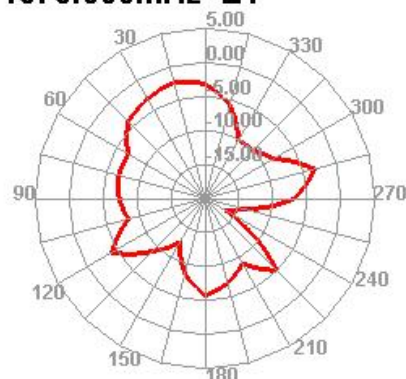
1575.000MHz



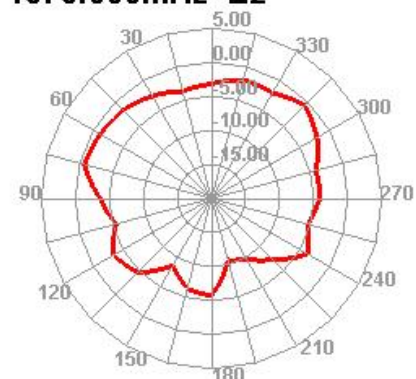
1575.000MHz H



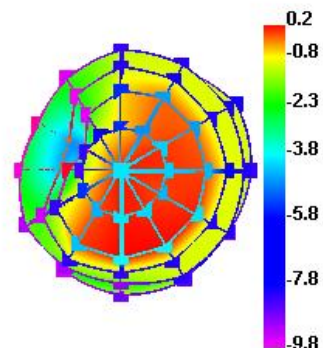
1575.000MHz E1



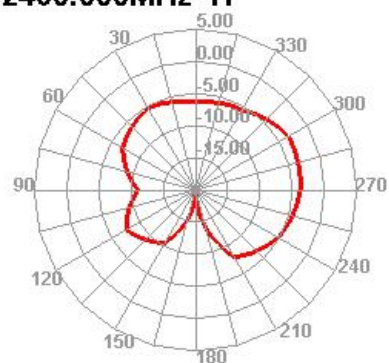
1575.000MHz E2



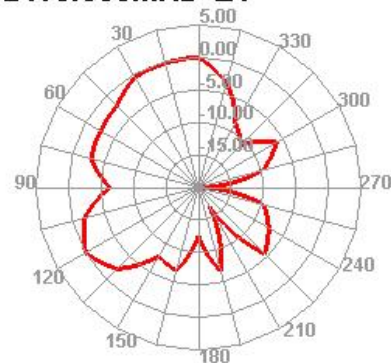
2460.000MHz



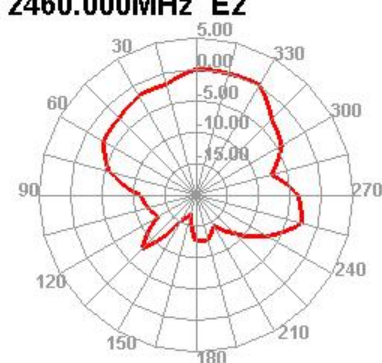
2460.000MHz H



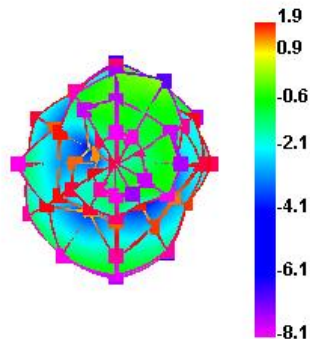
2460.000MHz E1



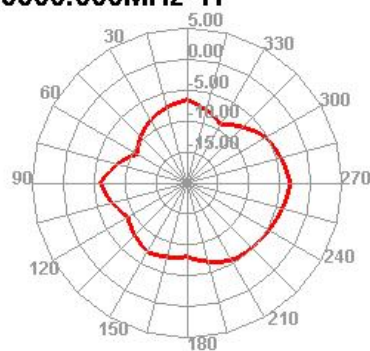
2460.000MHz E2



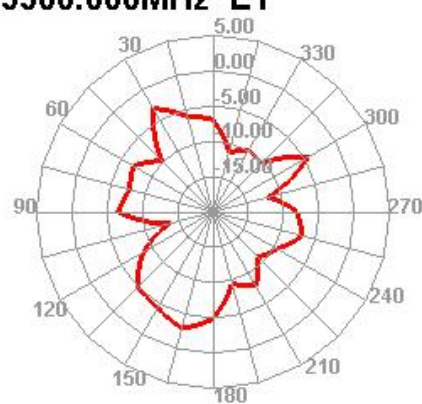
5500.000MHz



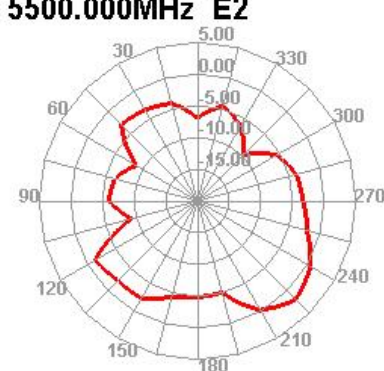
5500.000MHz H



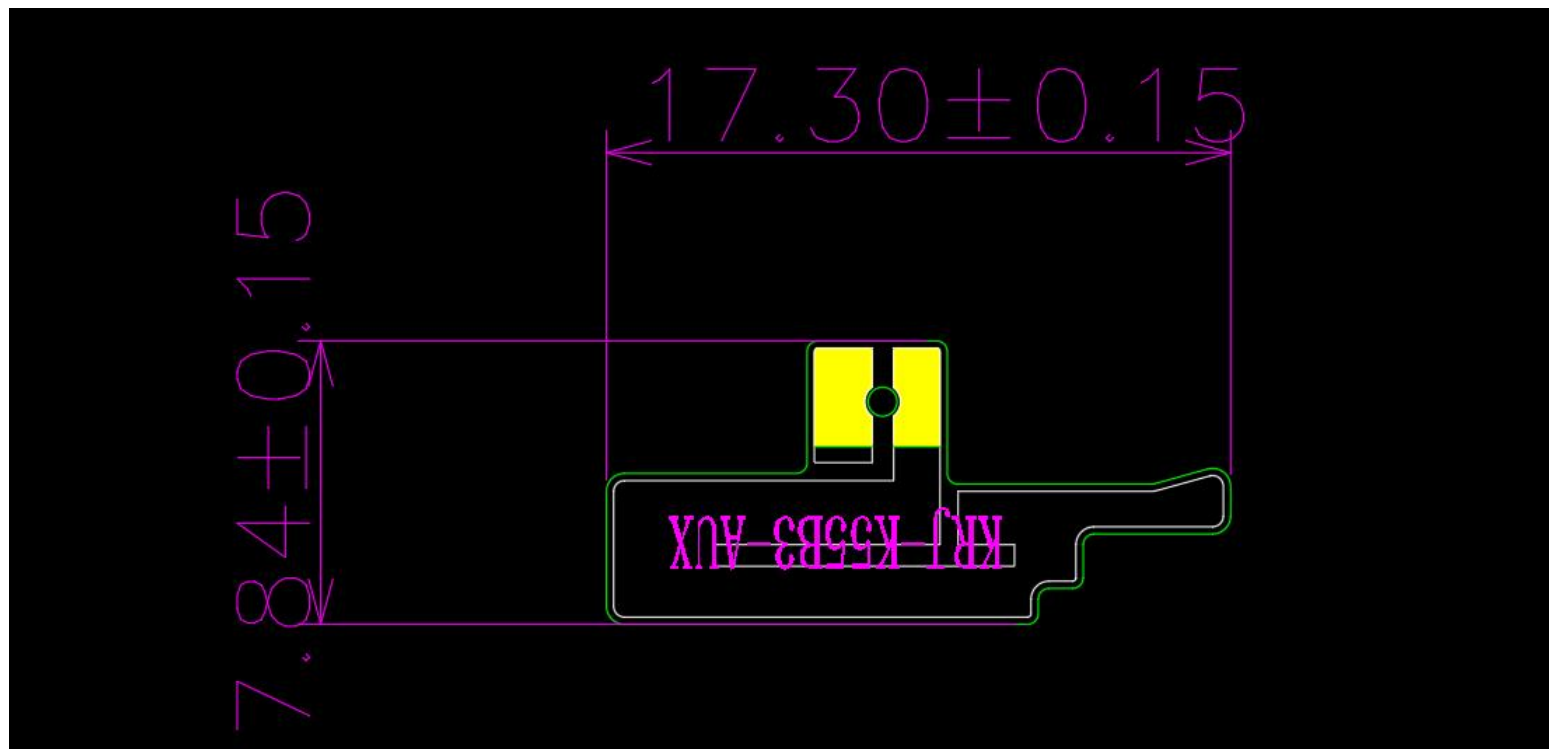
5500.000MHz E1



5500.000MHz E2



分集天线图纸



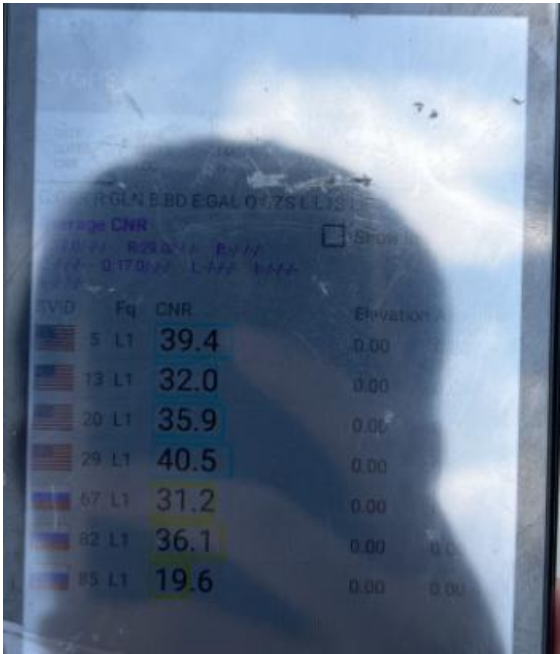
4. Test Data

不带开关天线数据

2G/3G	TRP	TIS	4G	TRP	TIS
GSM850	26.37		LTE B2	18.23	
	26.40	-102.66		17.75	-88.31
GSM900	24.04		LTE B3	17.34	
	21.35	-96.07		17.59	-90.11
DCS1800	22.75		LTE B4	16.83	
	24.56	-103.43		17.65	-90.67
PCS1900	25.35		LTE B5	18.05	
	24.44	-101.17		16.54	-89.58
WCDMAB B2	18.25		LTE B12	17.67	
	18.05	-102.67		17.42	-90.11
WCDMAB B4	17.78		LTE B17	17.75	
	18.36	-103.64		17.50	-90.24
WCDMAB B5	18.02		LTE B66	16.58	
	16.58	-102.52		17.58	-90.35
			LTE B71	15.47	
				16.65	-88.02
			LTE B41	18.07	
				18.03	-90.08

GPS/WIFI/BT

GPS实测报告	
位 置	测试结果
华强创意产业园5C室外	冷启动 秒定位, 最大 CN值 , 可使用星数 颗以上.



GPS实际收星无法定位

	WIFI2.4G(b/11m)		
	1	7	13
TRP	11.0	12.8	11.2
TIS	-81.3	-77.8	-76.6

	WIFI5.8G(a/54m)		
	36		165
TRP	7.0		7.6
TIS	-67.3		-68.9