编号：SDN-RD-FY-2024010401

承　认　书

APPROVAL SHEET

客户名称 Customer	精创			
客户料号 Customer P/N				
项目名称 Project Name	Glog 5 2G/4G PCB 板载天线			
供应商名称 Supplier	上海圣丹纳无线科技有限公司 Shanghai Saintenna Wireless Technology Co. , Ltd.			
圣丹纳物料型号 Saintenna P/N	S1832			
是否符合 RoHS ROHS Compliant	Yes			
送样日期 Providing Date				
供应商 Supplier	制定 Prepared by	设计 Designer	品质 QA	批准 Approver

地址：上海市宝山区园丰路69号1幢601室
Address: Room 601, Building 1, No. 69 Yuanfeng Road, Baoshan District, Shanghai 200444, China

电话/Tel：086-021-56165098；传真/Fax：086-021-56165098

客户 Customer	编制 Prepared by	审核 Checked by	批准 Approver

注：必须手工签字确认(Note: Signature must be confirmed by hand)

目录/Content

规格/Specification

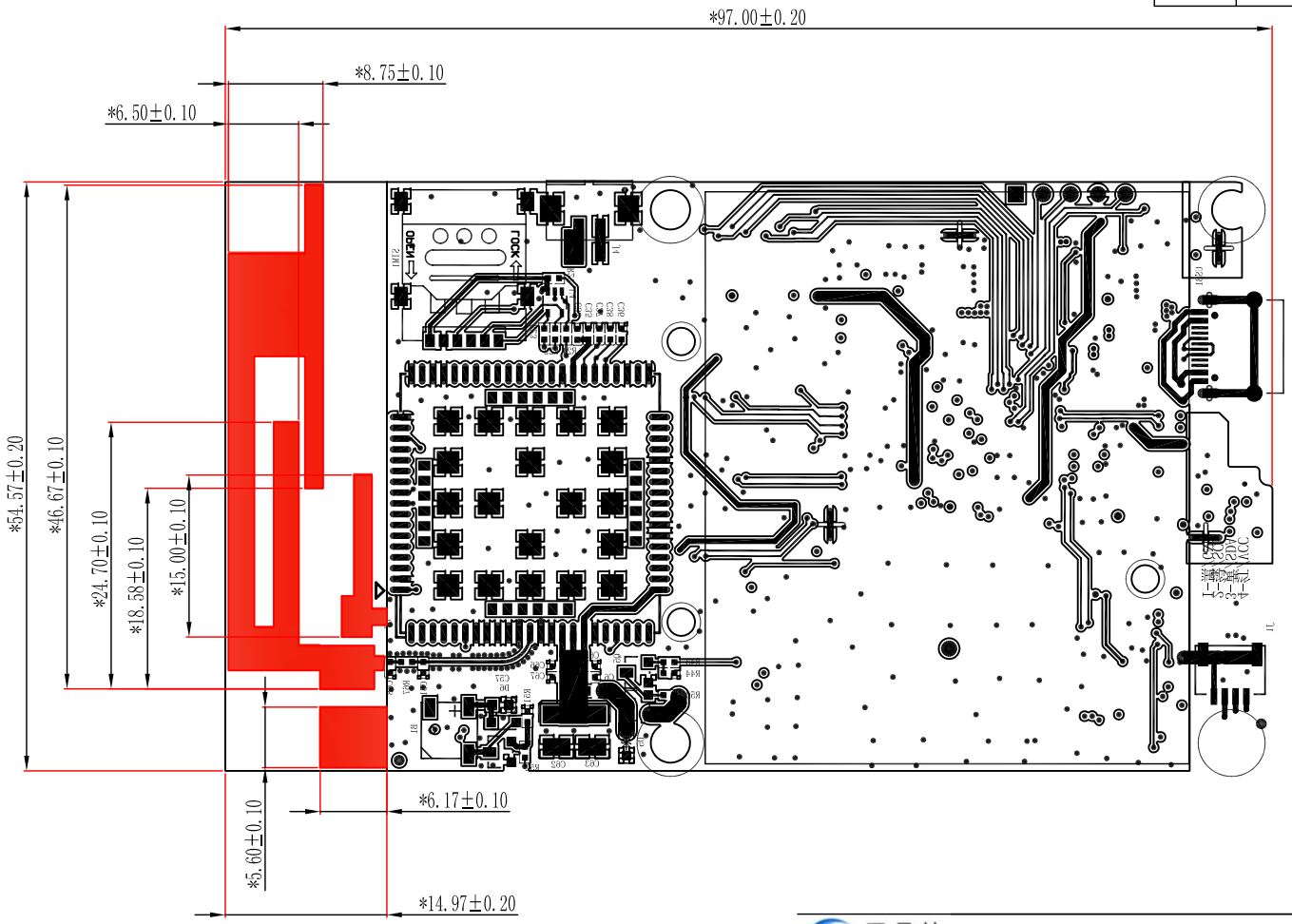
1. 机械规格/Mechanical Specification

- 连接方式/Connect Type..... 板载
- 工作温度/Work Temperature..... -40~85℃
- 存储温度/Storage Temperature..... -40~85℃

2.电性能参数/Electrical Specification

- 频段/Frequency Range..... 699MHz~960MHz
  1710MHz~2170MHz
  2300MHz~2700MHz
- 效率/Efficiency..... ＜65.28%
- 增益/Peak Gain..... 2.54dBi
- 极化/Polarization..... Linear
- 特性阻抗/Input Impedance..... 50Ω
- 最大承载功率/Max Input Power..... 5W

标记	签 名	修改内容	日 期



圣丹纳 SAINTENNA

上海圣丹纳无线科技有限公司

Third Projection			
0～3	±0.10	⌖	0.30
3～30	±0.30	○	0.30
30～50	±0.50	◎	0.30
50～80	±1.00	⊥	1.00
角度	±1°	▱	1.00

第 1 页，共 1 页

项目名称	S1832	日期	2024.01.04
产品名称	Glog 5 板载天线	设计	MD mayuxue RF
产品料号		批准	
		单位 mm	比例 FIT 版本 S1

精创Glog 5-2G/4G天线测试报告

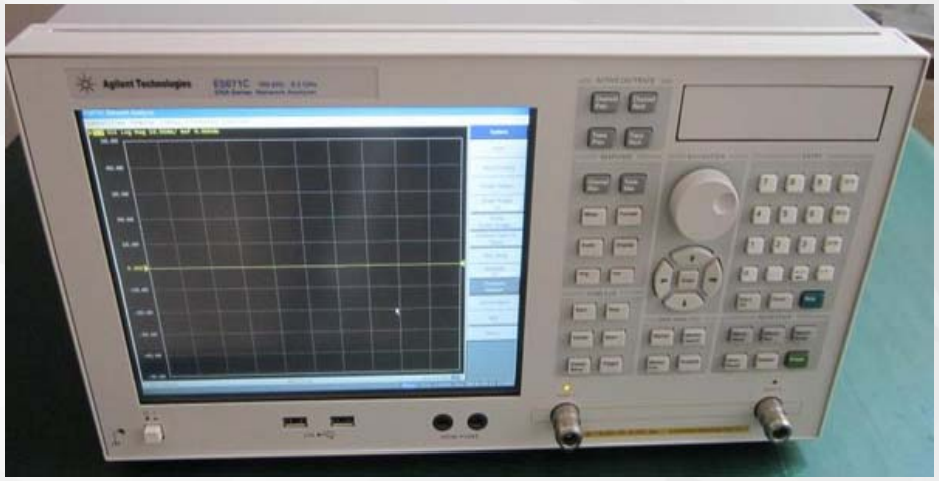
上海圣丹纳无线科技有限公司

项目基本信息

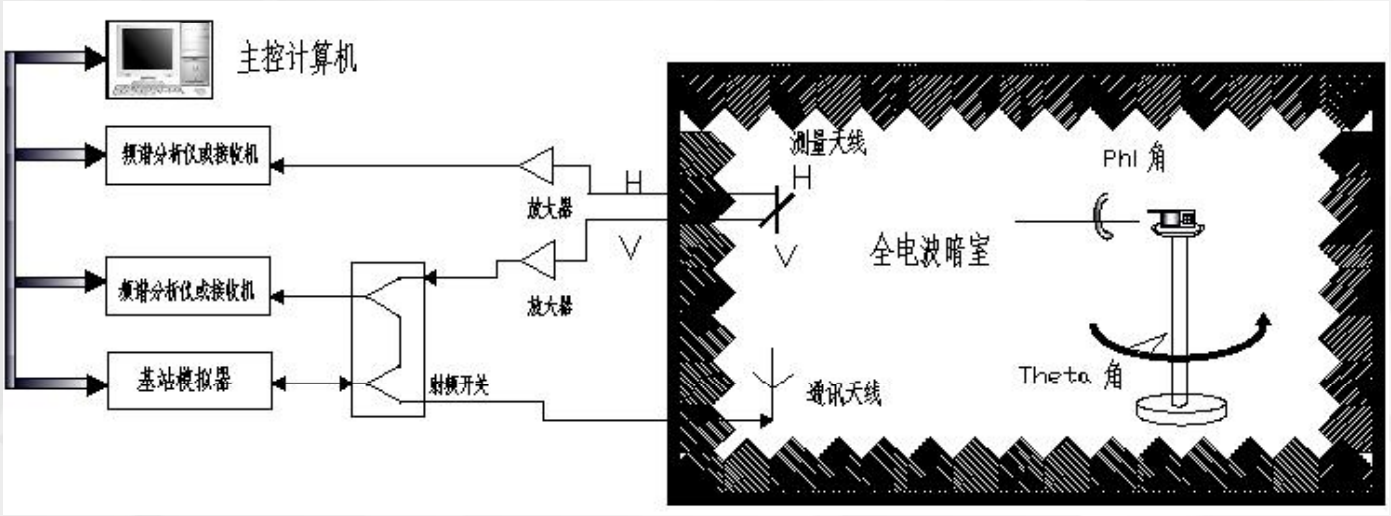
客户名称 Customer Name	精创
项目名称 Project Name	Glog 5-2G/4G
工作频段 Working Band	2G/4G
规格 Description	
版本 Version	V1.0
日期 Date	2024-01-03

调试仪器

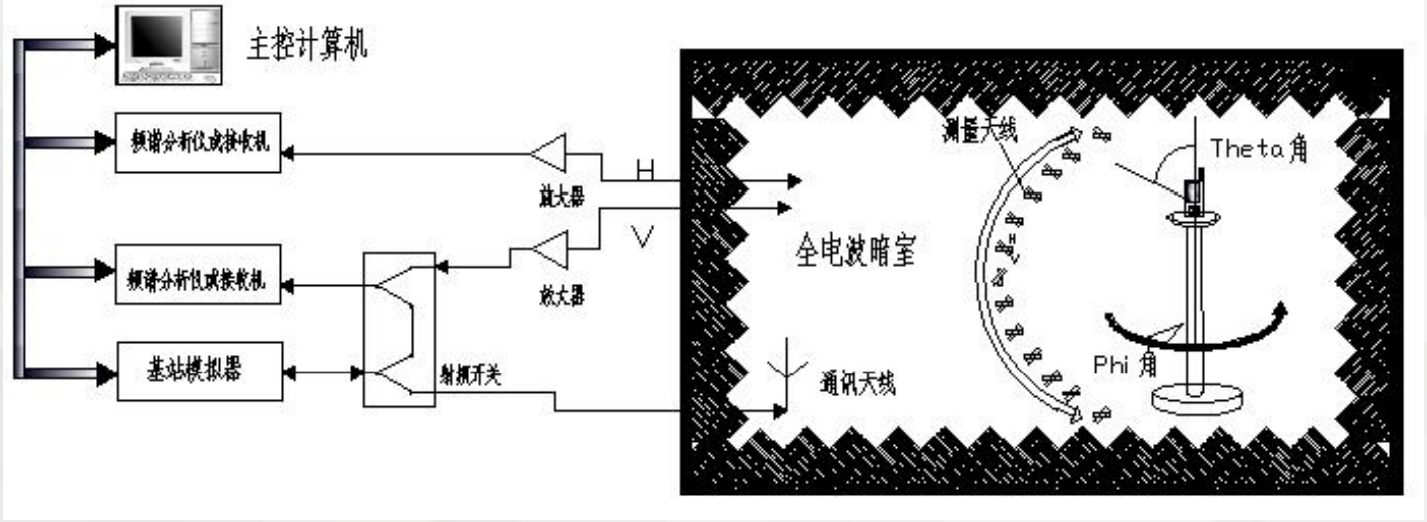
仪器型号	安捷伦 网络分析仪 E5071C
测试频率范围	100KHz ~ 8.5GHz
测试内容	Return Loss/VSWR/Smith Chart /Isolation （天线S11/S21等参数）



测试系统模型

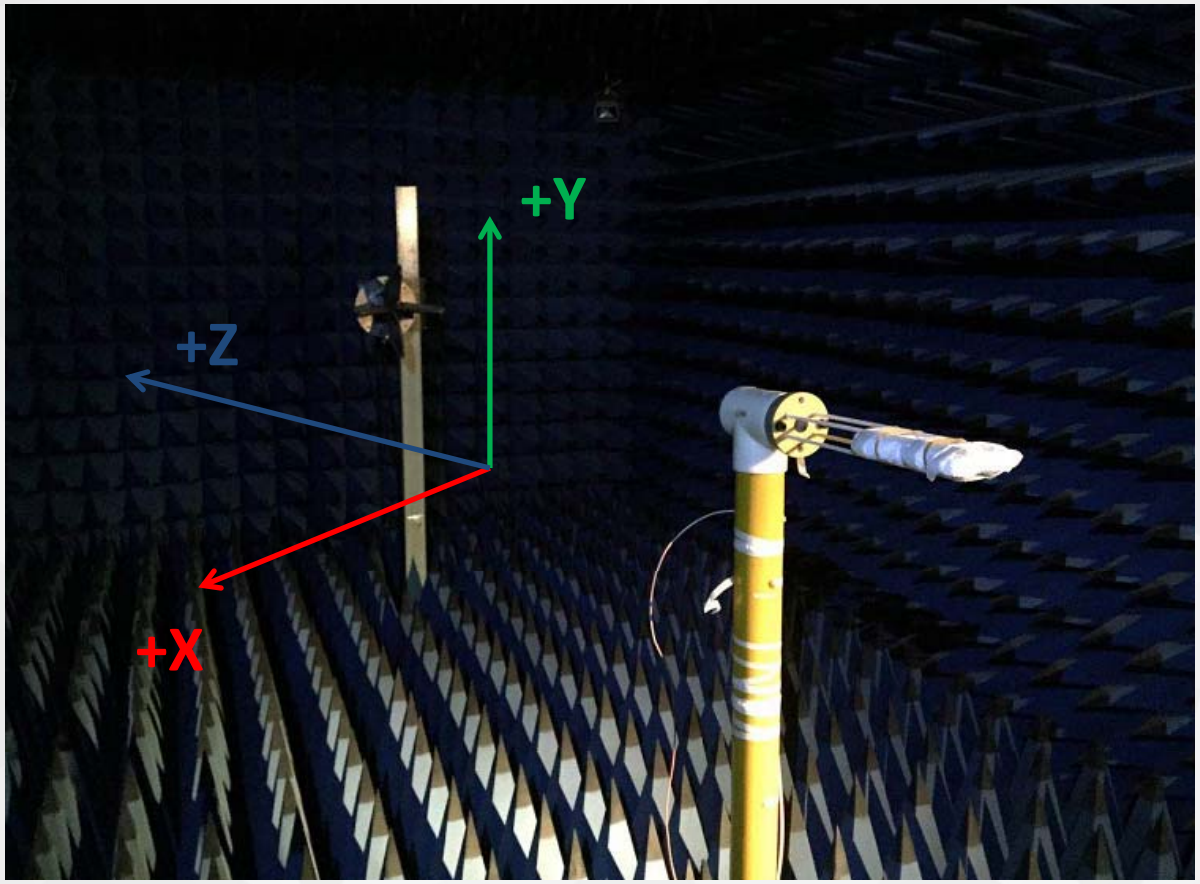


组合轴系统典型试验配置
（测试台在水平/垂直方向双轴旋转）



分布轴系统典型试验配置
（测试台只在水平轴旋转）

Anechoic Chamber



Combined-Axes System

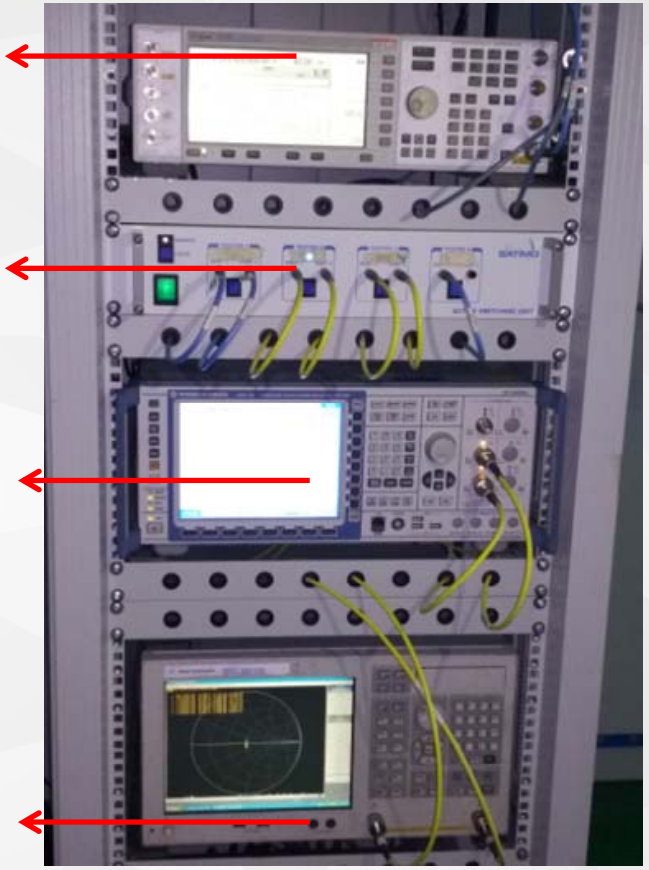
测试系统实图

仪器型号	安捷伦 信号发生器 E4438C
测试内容	GPS

仪器型号	射频通路开关Switch Unit

仪器型号	R&S 综测仪CMW500
测试内容	全制式有源测试(2/3/4G)/WiFi 802.11b/g/a/n

仪器型号	安捷伦 网络分析仪 E5071C
测试内容	无源测试(400MHz~6GHz)



S11主天线


Tr1 S22 SWR 1.000/ Ref 1.000 [F2 M]
1 699.00000 MHz 5.2576
>2 960.00000 MHz 7.9433
3 1.7100000 GHz 2.3347
4 2.7000000 GHz 3.0198
5 824.00000 MHz 2.9379
6 2.4000000 GHz 4.5797
8 1.0000000 GHz 9.5945
9 1.0000000 GHz 9.5945
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
2 Start 600 MHz
IFBW 70 kHz
Stop 3 GHz

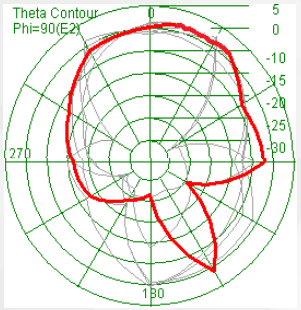
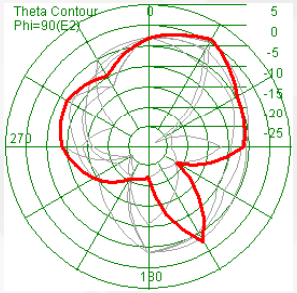
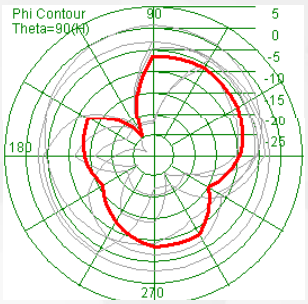
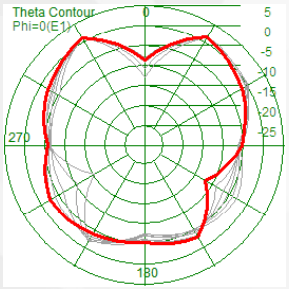
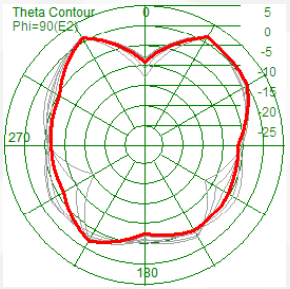
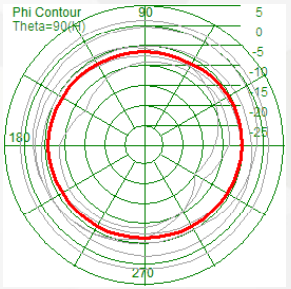
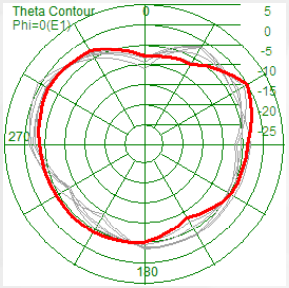
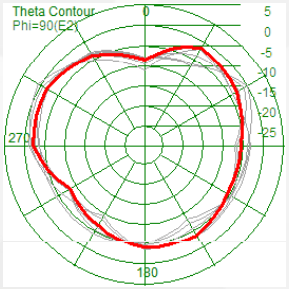
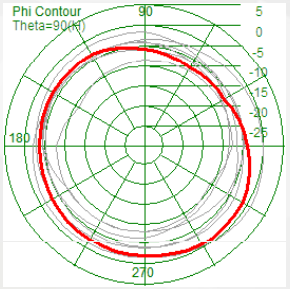
Test Result - Passive

Freq. (MHz)	Gain (dBi)	Efficiency (%)
699	-2.28	27.83
720	-2.1	28.94
740	-1.14	34.99
760	0.02	41.34
780	0.56	45.94
800	0.51	46.22
820	0.64	49.69
840	0.22	47.71
860	0.26	50.13
880	0.55	53.41
900	0.54	54.43
920	0.51	54.01
940	0.66	56.48
960	1.32	55.1

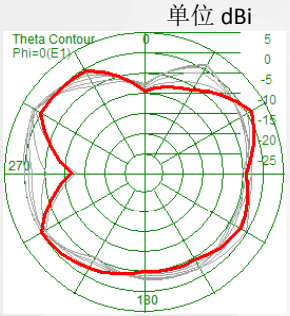
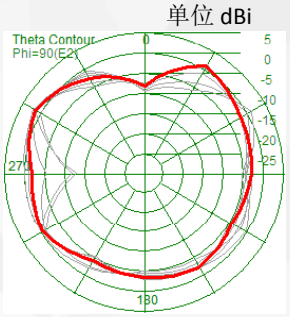
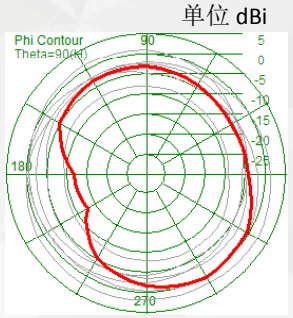
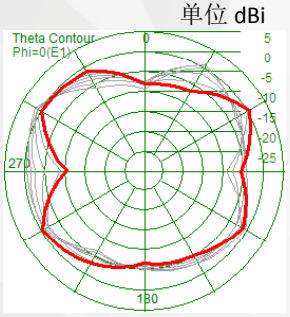
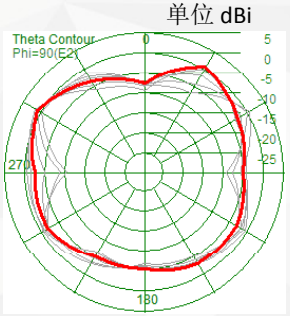
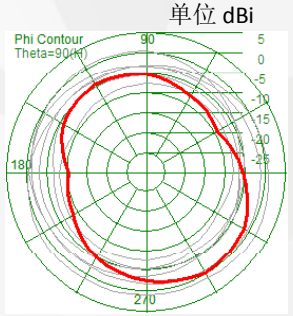
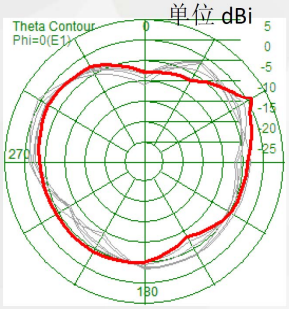
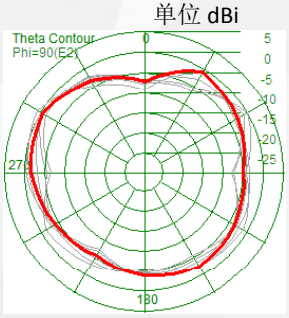
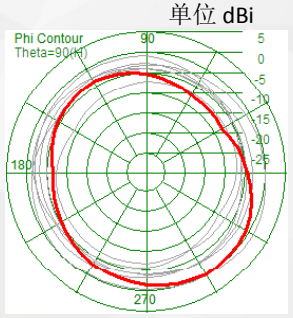
Freq. (MHz)	Gain (dBi)	Efficiency (%)
1710	0.51	54.01
1730	0.66	56.48
1750	0.79	59.85
1770	1.3	64.22
1790	1.38	64.04
1810	0.9	57.98
1830	1.07	58.44
1850	1.32	55.1
1870	0.72	51.49
1890	0.04	45.02
1910	1.78	45.82
1930	2.29	50.83
1950	2.54	53.24
1970	2.42	55.93
1990	2.27	58.68
2010	1.95	61.21
2030	1.97	62.44
2050	2.11	65.28
2070	2.09	63.11
2090	2	57.56
2110	2.09	54.03
2130	2.3	52.94
2150	2.07	48.73
2170	2.16	48.91

Freq. (MHz)	Gain (dBi)	Efficiency (%)
2300	1.92	53.15
2320	1.28	51
2340	1.17	50.68
2360	1.69	52.11
2380	2.09	53.03
2400	2.32	51.84
2420	1.9	50.74
2440	2.26	51.96
2460	2.04	49.62
2480	1.86	50.21
2500	1.69	49.23
2520	1.44	47.45
2540	0.79	43.65
2560	0.74	43.61
2580	0.76	43.82
2600	0.48	42.41
2620	0.33	42.78
2640	0.56	43.62
2660	1.01	47.84
2680	0.82	49.79
2700	1.2	54.8

Test Result – Passive

	E1	E2	H
700MHz			
960MHz			
1710MHz			

Test Result – Passive

	E1	E2	H
2170MHz			
2300MHz			
2700MHz			

Active

		TRP		TIS				TRP		TIS
LTE B1	18050	22.53				B12	23060	17.35		
	18300	16.97					23095	17.85		
	18550	19.13	550	-90.62			23130	18.91	5130	-82.45
B2	18650	18.7				B13	23230	17.69	5230	-87.14
	18900	18.54								
	19150	17.64	1150	-91.75		B18	23900	21.81		
							23925	20.6		
B3	19250	20.23					23950	21.29	5950	-94.1
	19575	20.54								
	19900	20.6	1900	-88.76		B19	24050	22.09		
							24075	21.07		
B4	20000	21.02					24100	20.68	6100	-90.78
	20175	20.43								
	20350	21.71	2350	-91.15		B20	24200	20.09	6200	-91.16
							24300	19.58		
B5	20450	20.06					24400	20.85		
	20525	20.81								
	20600	21.12	2600	-91.4		B25	26090	19.99		
							26365	19.15		
B7	20800	19.81					26640	19.84	8640	-93.05
	21100	21.15								
	21400	20.35	3400	-90.36		B26	26740	21.8		
							26865	22.72		
B8	21500	22.56					26990	20.58	8990	-88.36
	21625	21.69								
	21750	22.34	3750	-94.3						

Active

		TRP		TIS
B28	27260	17.84		
	27435	19.73		
	27610	19.09	9610	-89.58
B66	132022	20.09		
	132322	21.32		
	132622	21.84	67086	-90.6
B38	37800	19.32		
	38000	20.18		
	38200	20.23	38200	-93.78
B39	38300	20.62		
	38450	21.65		
	38600	21.96	38600	-90.84
B40	38700	21.56		
	39150	22.6		
	39600	22.03	39600	-90.75
B41	40290	20.09		
	40740	20.37		
	41190	21.78	41190	-94.62