ShenZhen VLG Wireless Technology Go., Ltd
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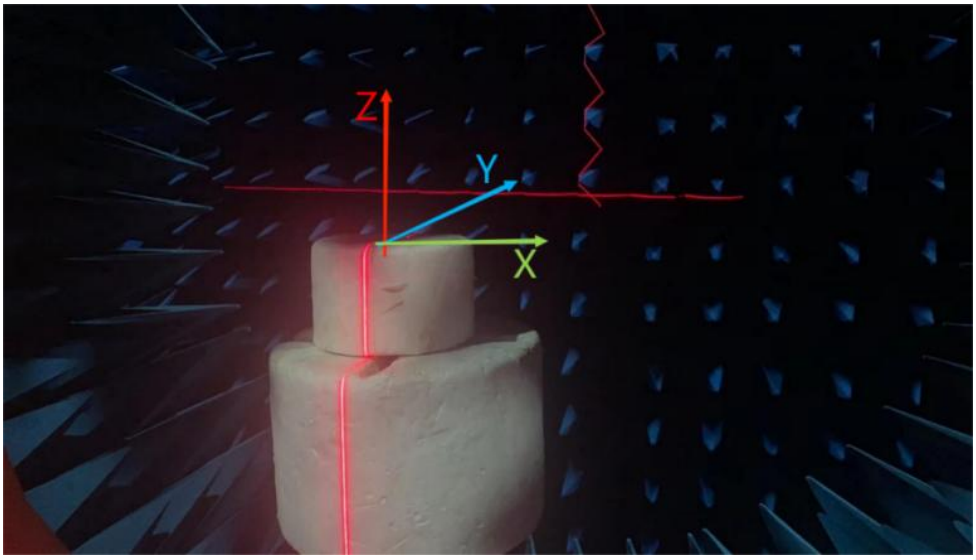
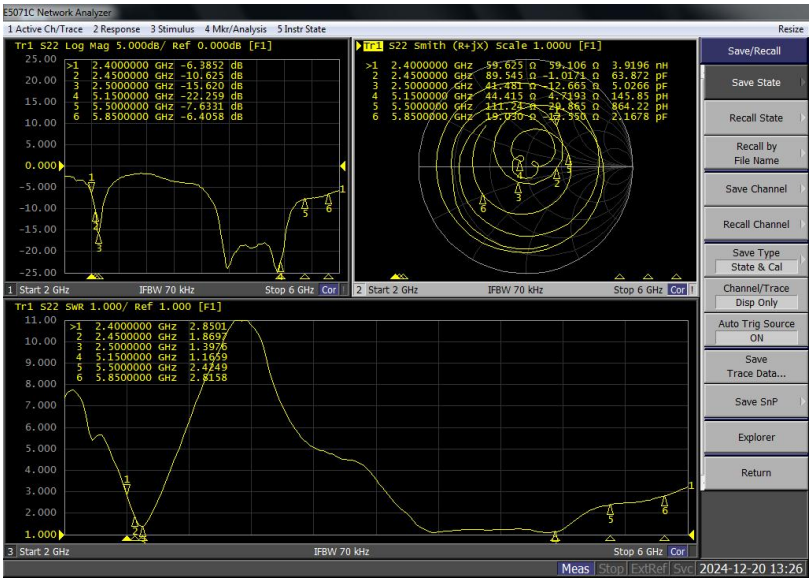
Antenna Specifications

一、 Antenna and Testing Environment



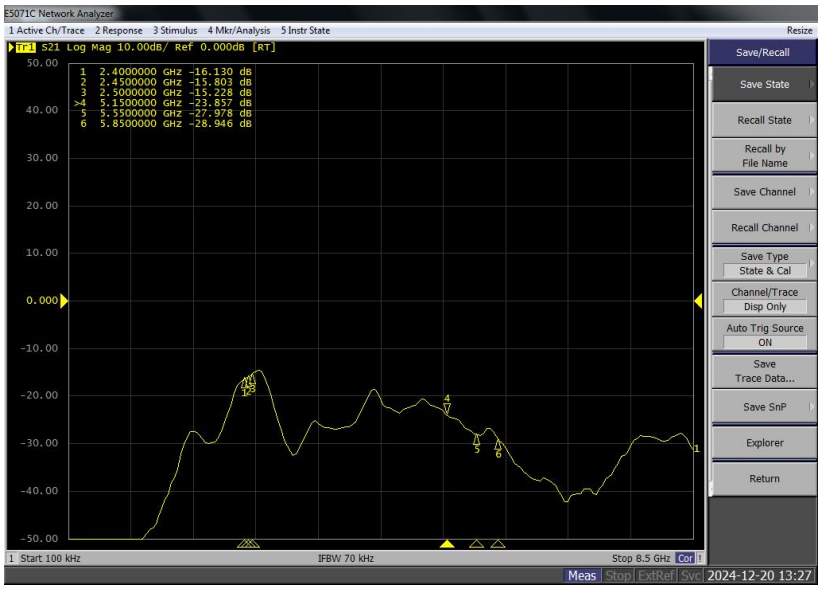
二、 Antenna VSWR, Isolation



V.S.W.R

Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
VSWR	2.8	1.8	1.3	1.1	2.4	2.8

Isolation



Log Mag

Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
Log Mag	-16.1	-15.8	-15.2	-23.8	-27.9	-28.9

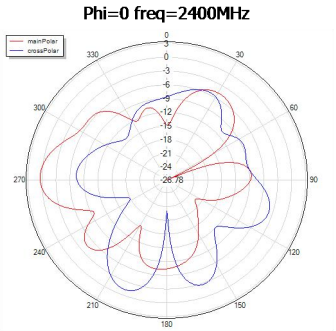
三、Antenna Passive Efficiency & Gain

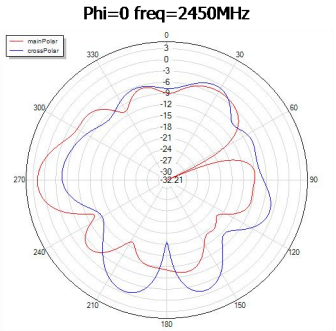
Gain&Efficiency 增益和效率						
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400.00	3.54	-24.82	2.05	1.61	-3.01	49.96
2410.00	3.60	-25.70	1.96	1.78	-2.96	50.55
2420.00	4.20	-24.92	2.55	2.14	-2.64	54.45
2430.00	3.84	-24.71	2.08	1.81	-2.72	53.45
2440.00	4.42	-23.47	2.69	2.13	-2.51	56.11
2450.00	4.61	-21.85	2.87	2.36	-2.27	59.35
2460.00	4.35	-21.28	2.70	2.11	-2.55	55.65
2470.00	4.53	-20.44	2.96	2.25	-2.21	60.18
2480.00	4.86	-19.29	3.41	2.78	-1.95	63.83
2490.00	4.95	-20.03	3.61	2.81	-1.94	63.97
2500.00	4.71	-20.97	3.43	2.73	-1.95	63.81

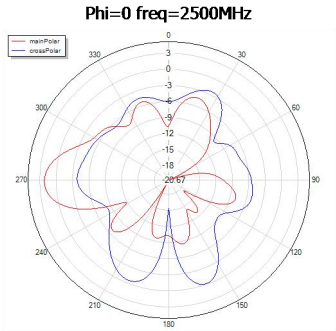
Gain&Efficiency 增益和效率						
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	efficiency 效率(dB)	efficiency 效率(%)
5150.00	5.68	-27.02	5.02	2.16	-1.97	63.55
5200.00	4.71	-30.37	3.99	1.53	-2.38	57.81
5250.00	5.23	-30.12	4.44	2.09	-2.07	62.15
5300.00	5.11	-40.06	4.23	1.94	-2.43	57.17
5350.00	5.07	-34.91	4.11	1.72	-2.77	52.82
5400.00	4.87	-32.44	3.84	1.74	-3.17	48.25
5450.00	5.31	-33.48	3.95	2.29	-3.00	50.10
5500.00	5.66	-25.22	4.20	2.61	-3.19	48.02
5550.00	4.58	-34.27	3.07	2.05	-4.15	38.50
5600.00	3.90	-29.77	2.38	1.94	-4.77	33.36
5650.00	4.74	-28.59	3.40	3.33	-3.90	40.70

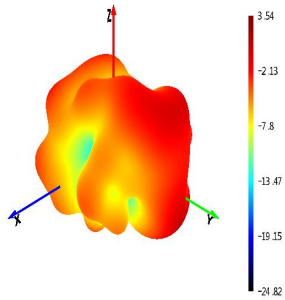
5700.00	4.44	-31.51	3.47	3.26	-4.18	38.23
5750.00	4.77	-27.77	3.84	3.41	-4.12	38.77
5800.00	5.63	-32.77	4.62	3.26	-3.77	41.99
5850.00	5.48	-29.47	4.38	2.85	-4.01	39.70

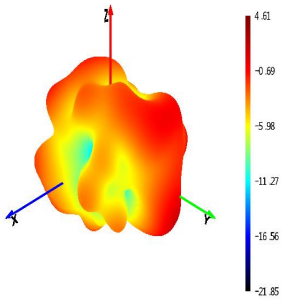
四、2D/3D Radiation Pattern

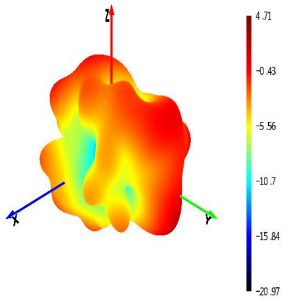


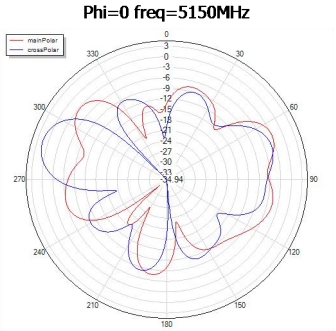


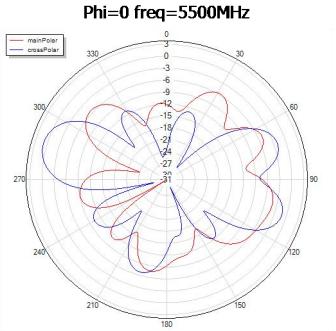


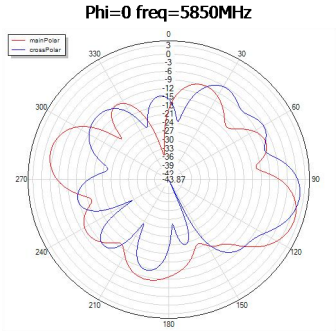


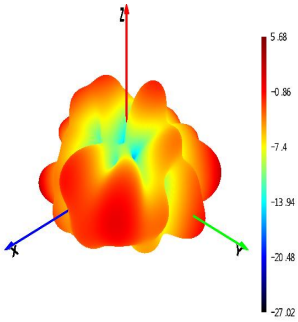


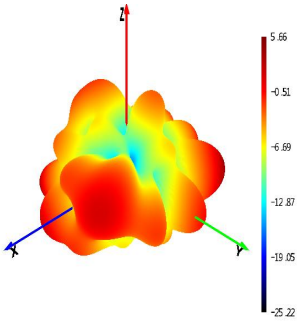


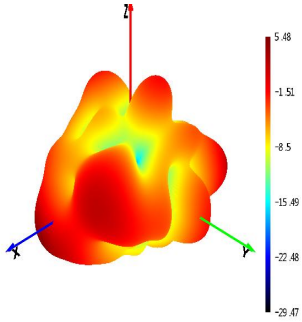










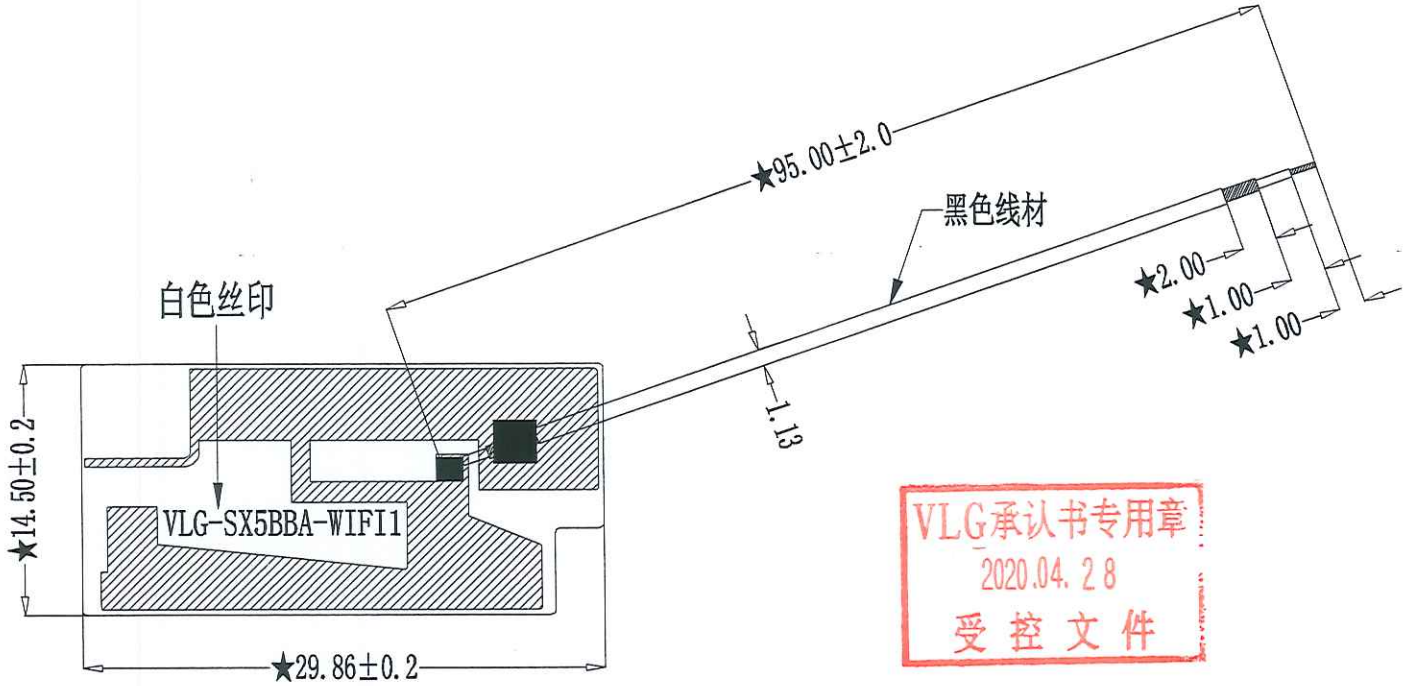


五、Antenna Active Data

Test	Wifi 2G TRP				Test	Wifi 2G TIS		
CH	1	6	13		CH	1	6	13
Frequency (MHz)	2412	2437	2472		Frequency (MHz)	2412	2437	2472
TRP(dBm)	11.37	13.09	13.48		TIS(dBm)	-81.57	-83.5	-85.6

Test mode：802.11a 54Mbps BW 20M

Test	Wifi 5G TRP				Test	Wifi 5G TIS		
CH	36	100	165		CH	36	100	165
Frequency (MHz)	5180	5500	5825		Frequency (MHz)	5180	5500	5825
TRP(dBm)	10.06	7.27	5.61		TIS(dBm)	-76.38	-67.87	-71.32



VLG承认书专用章
2020.04.28
受控文件

备注:
1. 打"★"为严格控制尺寸（必测等级A）
打"*"为重要尺寸（制作模具要控制，模具验收必测等级B），其它为设计参考尺寸等级C;
2. 产品形状刀模尺寸要严格控制;
3. 表面无油污，杂质，毛刺等。
4. 不经过VLG公司确认，材料不能随意更改;
5. 包装以及品质标准分别参考VLG包装规范和VLG品质标准;

日期	修改内容	备注

深圳市维力谷无线技术有限公司
ShenZhen VLG Wireless Technology Co,.Ltd

第三角法				机种	SX5BBA	日期	2020.04.27	页码	1 OF 1		
0~10	±0.10	○	0.02	品名	WIFI1天线	绘图	曾聪	RF确认	胡帅		
10~20	±0.15	◎	□0.03	料号	V1193-045-A-1	品质审核					
20~40	±0.20	⊥	0.02	材质		结构审核		批准			
> 40	±0.25	▱	0.04	模面处理							
		⌓	0.02								
请勿实测图纸	位置			外观处理	黑色哑光	单位	mm	比例		版本	R:A