

Antenna Specification



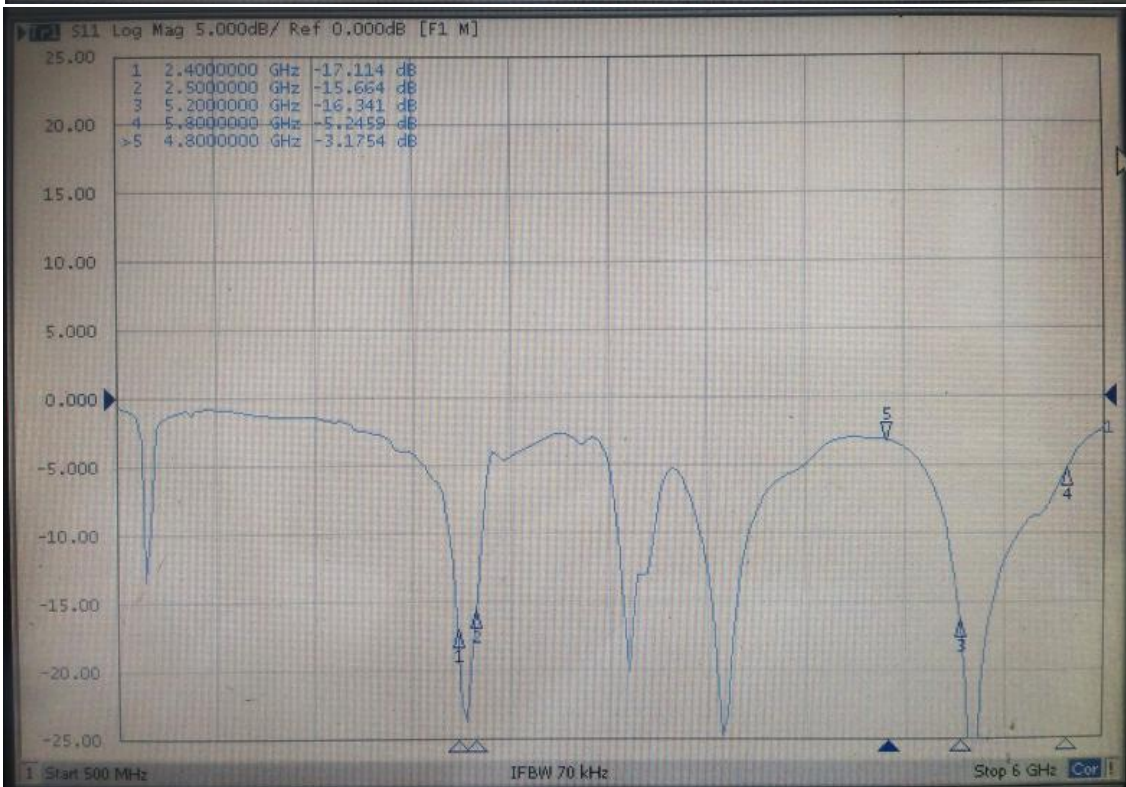
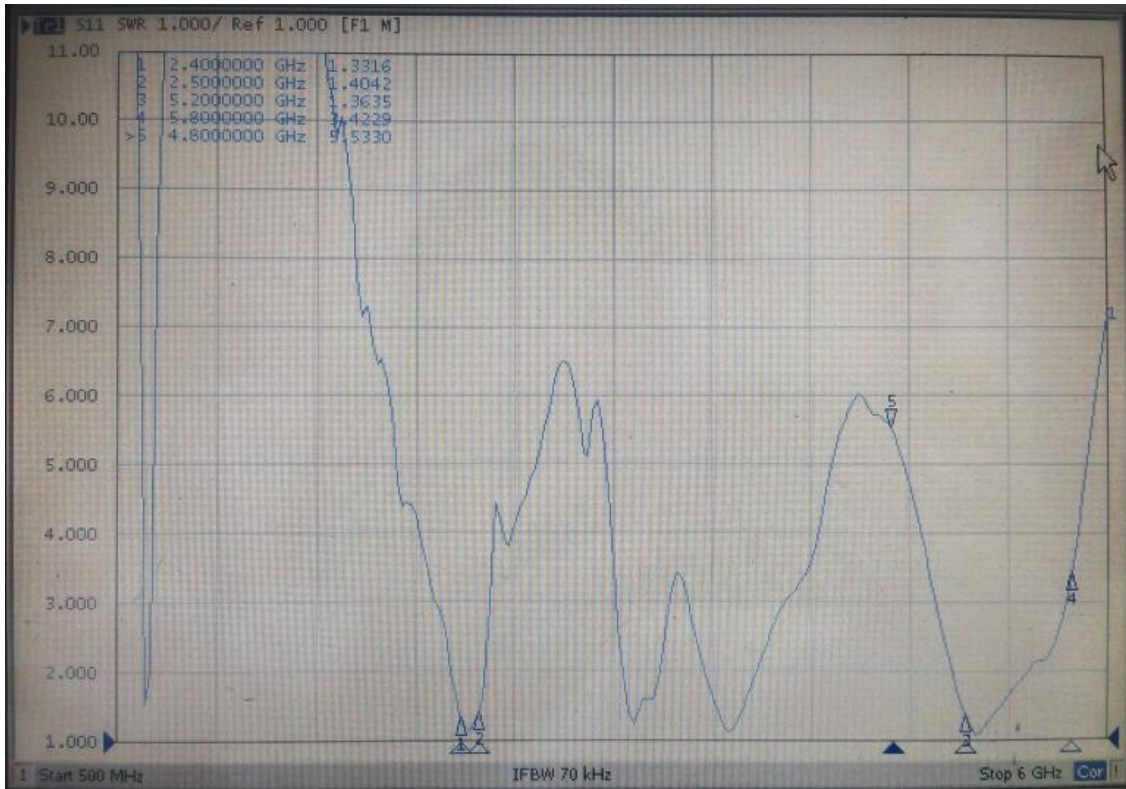
1. Specifications

Design Specifications	Typical	Units
Operation Temp.	-20 ~ +70	°C
Storing Temp.	-20 ~ +80	°C
Frequency	2400~2500&5200~5800	MHz
Impedance	50	ohm
VSWR	<5	
Antenna Efficiency	1# : 24.93 ~ 53.58 2# : 24.74 ~ 57.89	%
Antenna Gain	1# : -0.37 ~ 2.51 2# : -0.49 ~ 1.96	dBi
Radiation Pattern	Omnibearing	
Power handling	33	dBm
Polarization	Linear Polarization	
Antenna Type	PIFA Antenna	
Overall Dimensions	refer to last page	

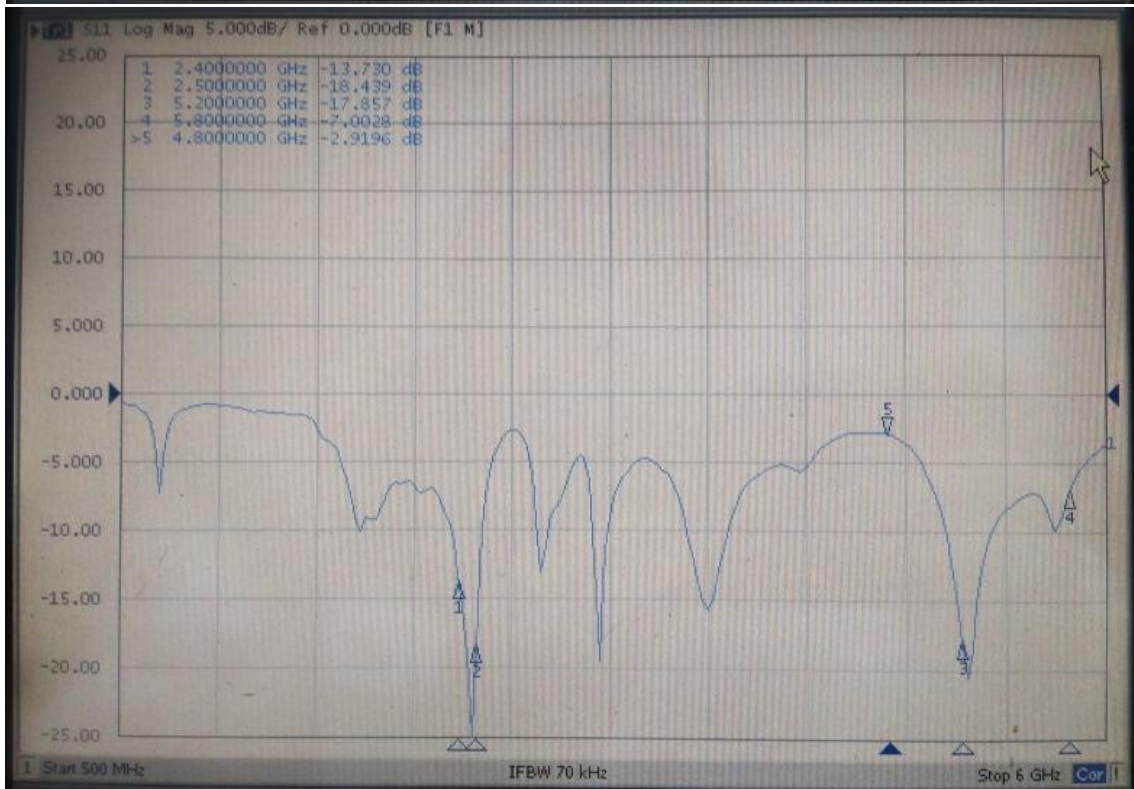
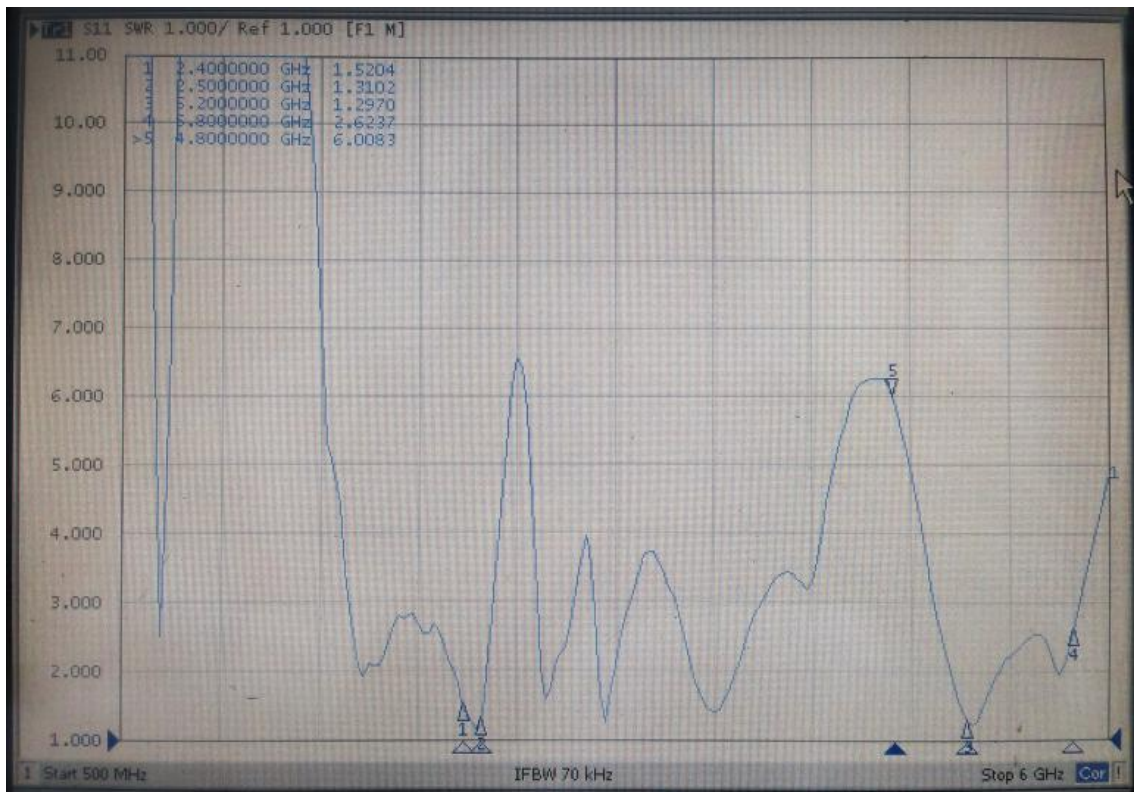
2. VSWR

	Frequency (MHz)	VSWR
1#WiFi	2400	1.33
	2500	1.40
	5200	1.36
	5800	3.42
2#WiFi	2400	1.52
	2500	1.31
	5200	1.30
	5800	2.62

3. S11 (1#)



S11 (2#)



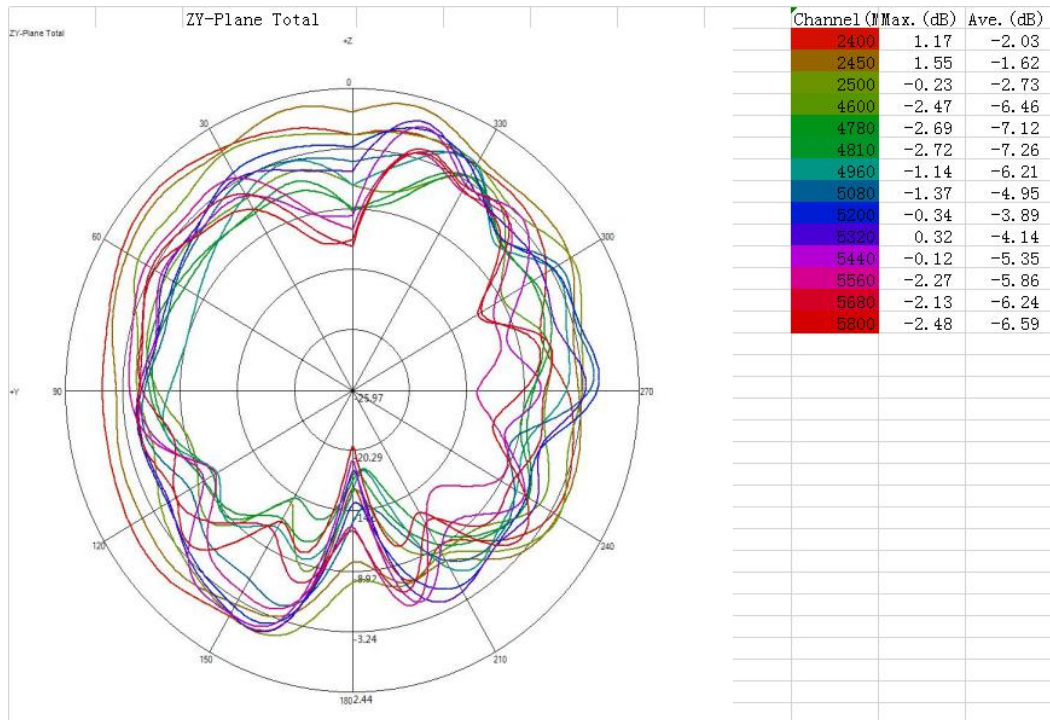
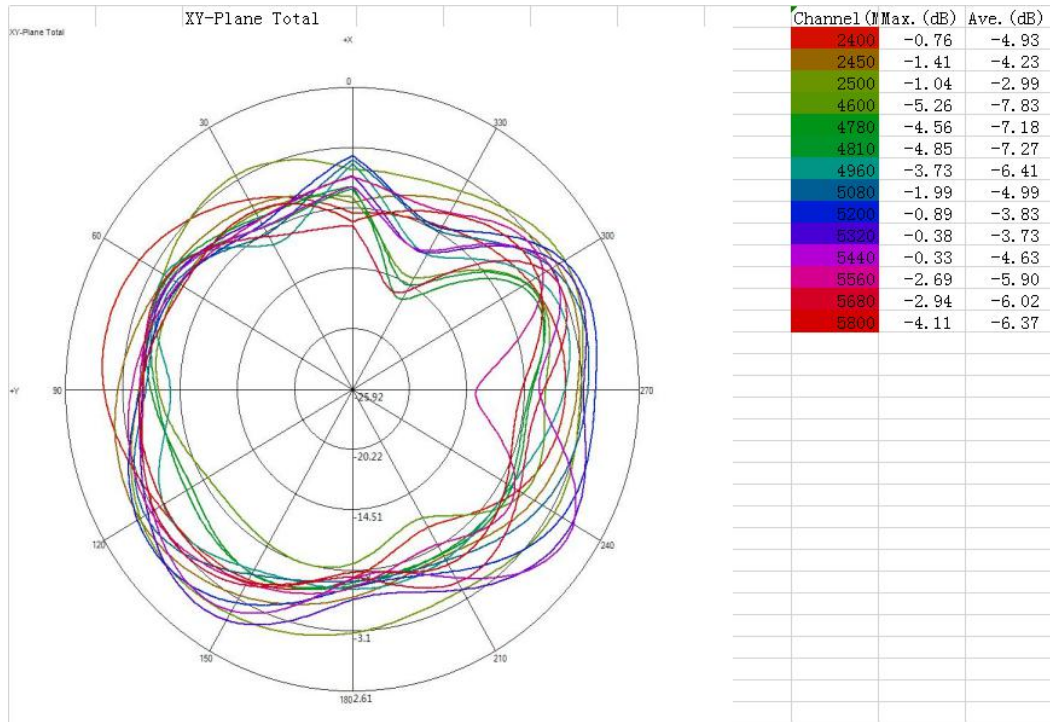
4. Antenna Efficiency

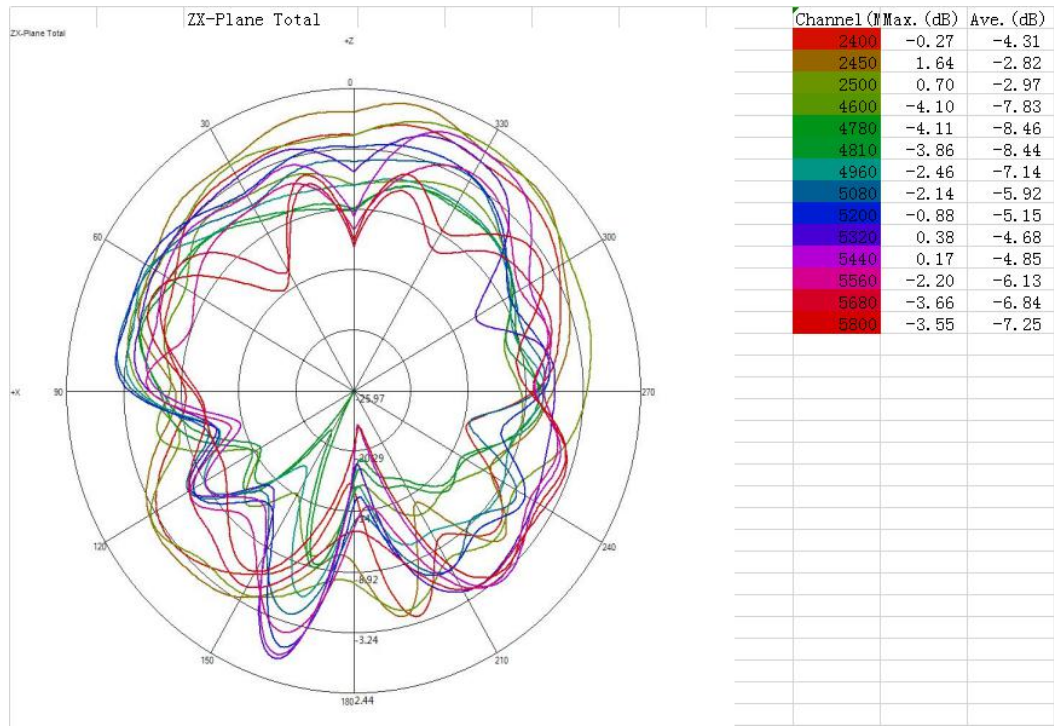
1#	Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
	2400	1.55	-3.39	45.84
	2410	1.66	-3.14	48.50
	2420	1.70	-2.94	50.77
	2430	1.70	-2.83	52.12
	2440	1.51	-2.81	52.37
	2450	1.71	-2.74	53.27
	2460	1.74	-2.74	53.25
	2470	1.45	-2.73	53.34
	2480	1.18	-2.71	53.58
	2490	0.84	-2.77	52.87
	2500	0.67	-2.95	50.75
	5200	-0.11	-4.23	37.74
	5230	-0.21	-4.17	38.29
	5260	0.34	-3.99	39.92
	5290	0.33	-3.95	40.27
	5320	0.70	-3.89	40.79
	5350	0.79	-3.91	40.64
	5380	0.62	-3.87	41.04
	5410	0.90	-4.07	39.16
	5440	0.59	-4.25	37.55
	5470	1.30	-4.39	36.41
	5500	2.09	-4.36	36.67
	5530	1.76	-4.73	33.66
	5560	1.93	-4.83	32.91
	5590	1.43	-5.23	30.01
	5620	1.74	-5.04	31.30
	5650	2.13	-5.12	30.74
	5680	2.44	-4.94	32.04
	5710	2.51	-4.87	32.58
	5740	1.60	-5.25	29.84
	5770	0.80	-5.51	28.13
5800	-0.37	-6.03	24.93	
2#	Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
	2400	0.77	-3.05	49.50
	2410	0.82	-2.86	51.77
	2420	0.86	-2.78	52.68
	2430	0.88	-2.77	52.90
	2440	0.69	-2.75	53.15
	2450	0.87	-2.62	54.69
	2460	1.50	-2.57	55.37
	2470	1.76	-2.49	56.38
	2480	1.96	-2.39	57.69
	2490	1.95	-2.37	57.89
	2500	1.96	-2.50	56.20
	5200	1.17	-3.42	45.52
	5230	1.28	-3.37	46.07
	5260	1.25	-3.29	46.84
	5290	0.98	-3.39	45.77
	5320	0.87	-3.54	44.23
	5350	0.56	-3.70	42.64
	5380	0.44	-3.88	40.95
	5410	0.72	-4.24	37.71
	5440	0.60	-4.38	36.45
	5470	0.58	-4.29	37.27
	5500	1.16	-4.10	38.86
	5530	0.89	-4.22	37.85
	5560	1.29	-4.11	38.80
	5590	1.06	-4.43	36.05
	5620	1.17	-4.44	36.00
	5650	0.82	-4.78	33.26
	5680	0.86	-4.93	32.17
	5710	0.78	-4.99	31.70
	5740	0.30	-5.42	28.72
	5770	0.05	-5.63	27.34
5800	-0.49	-6.07	24.74	

5. Radiation Pattern

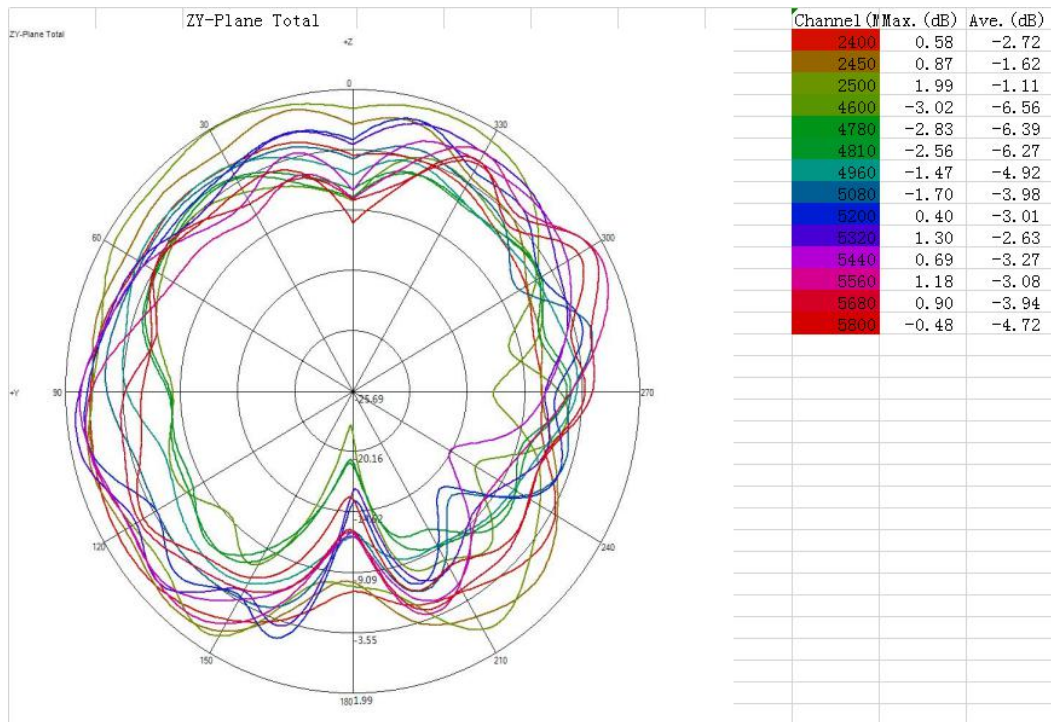
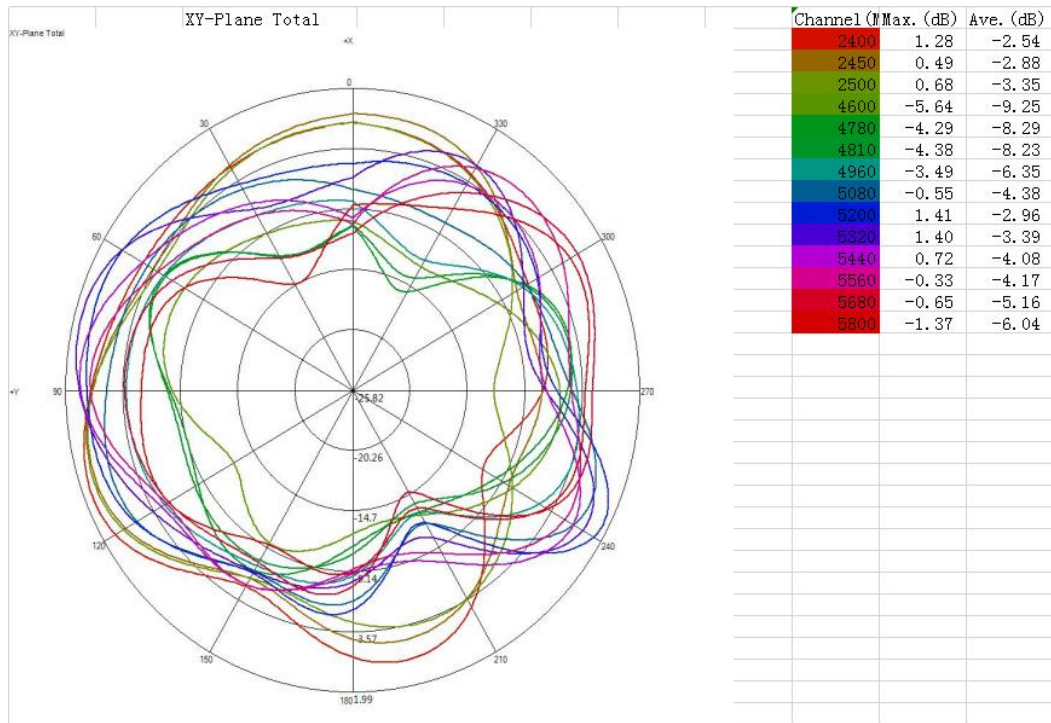
5.1 2D Pattern

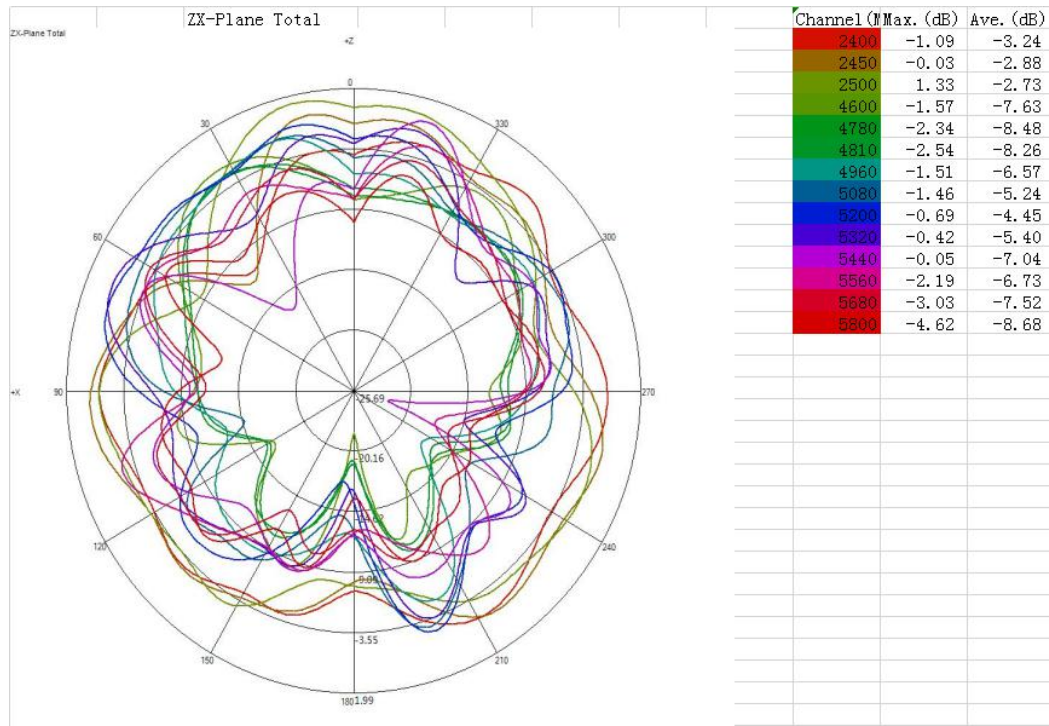
1#





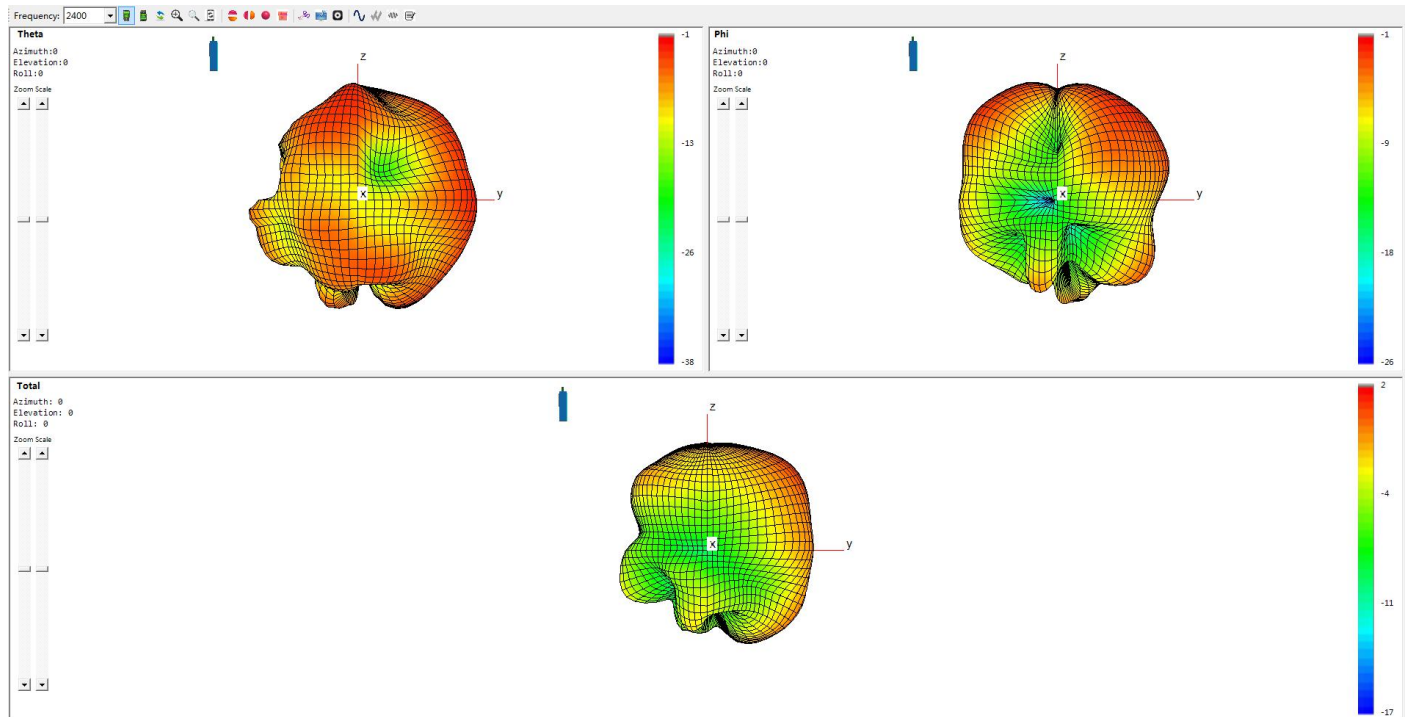
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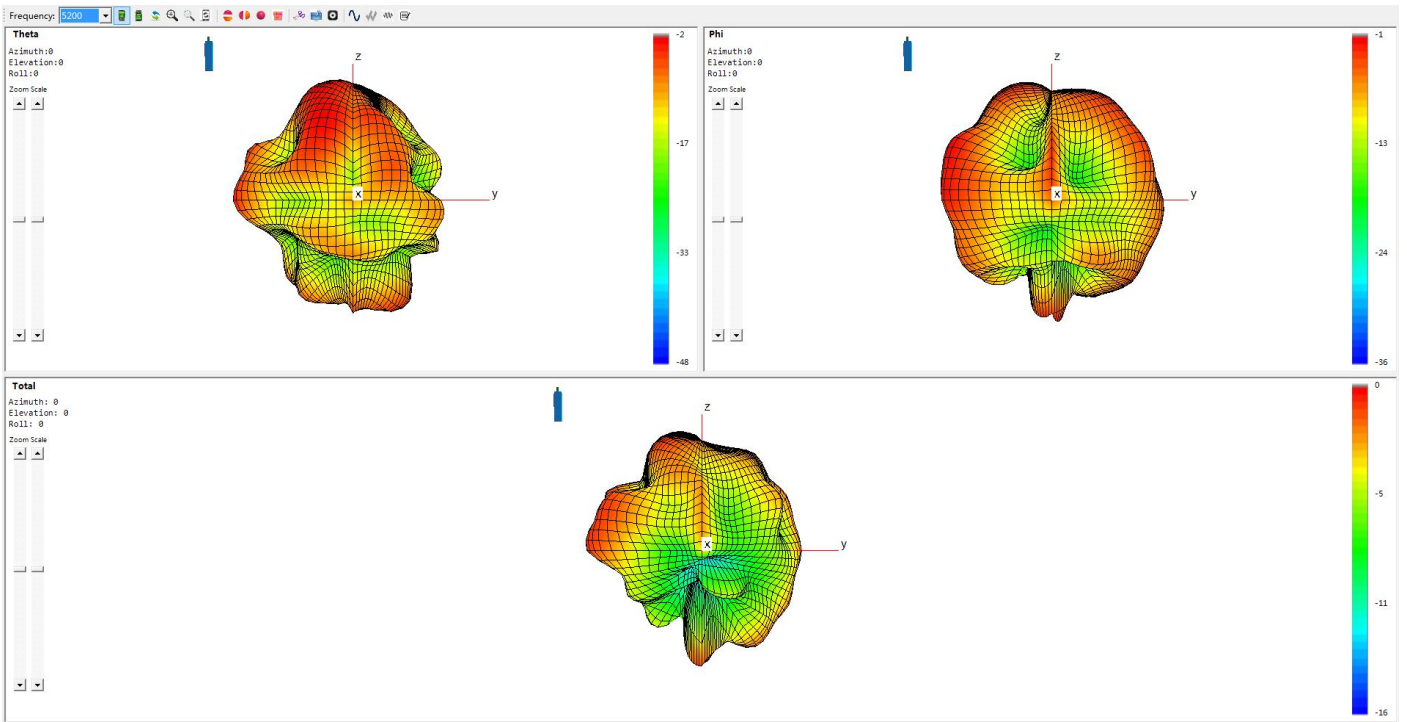
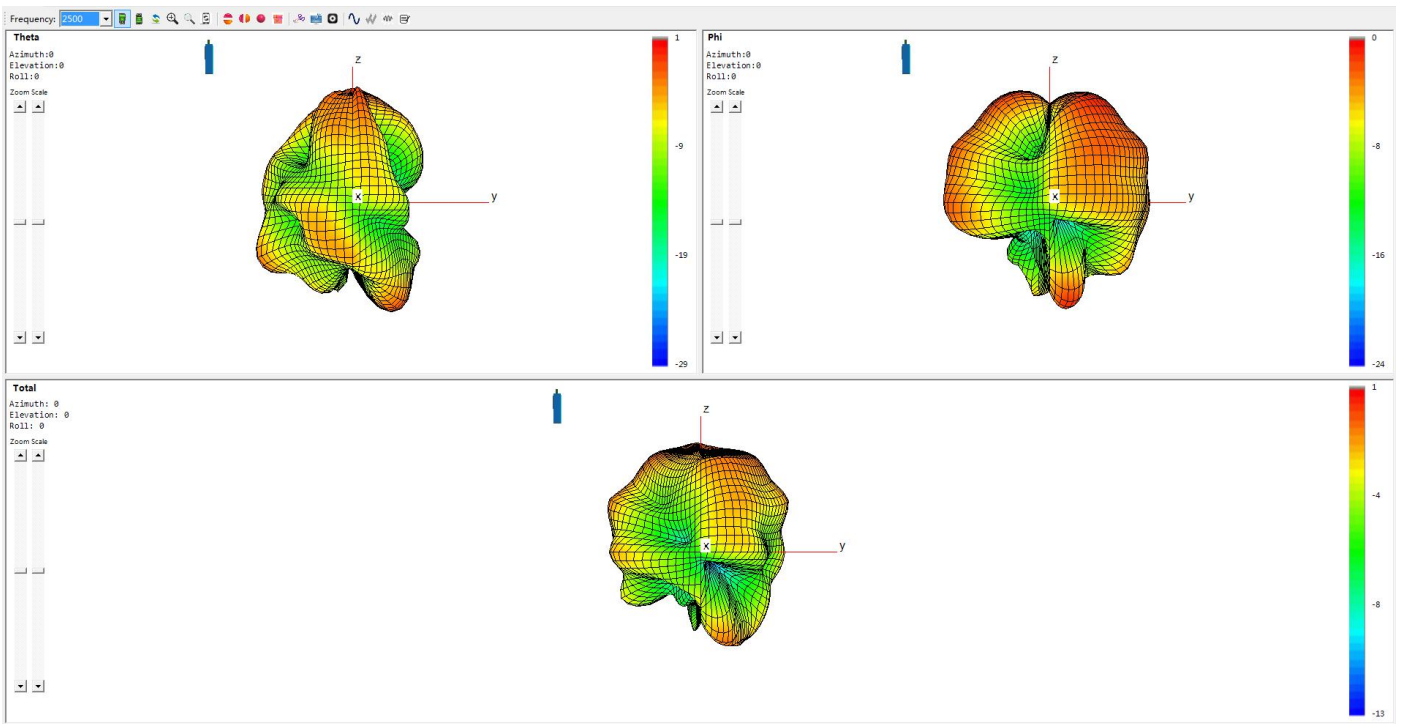


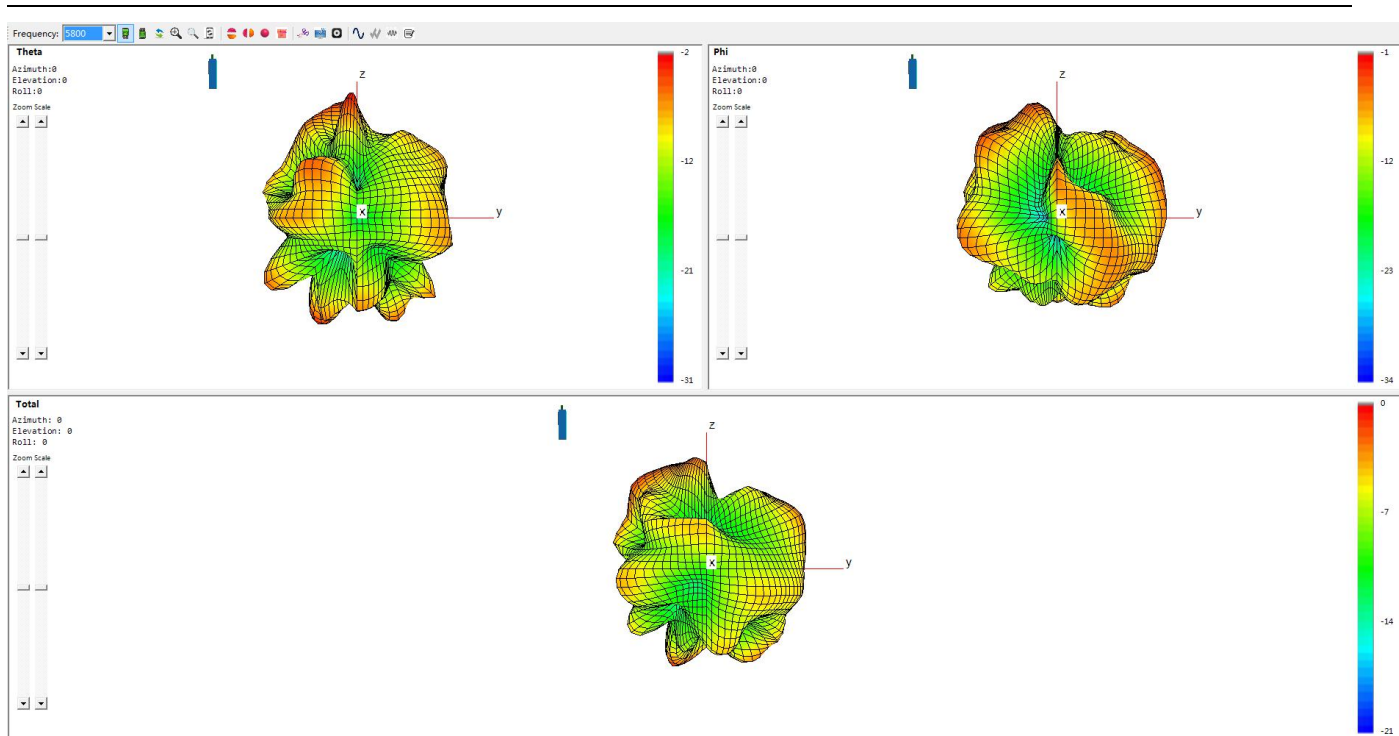


5.2 3D Pattern

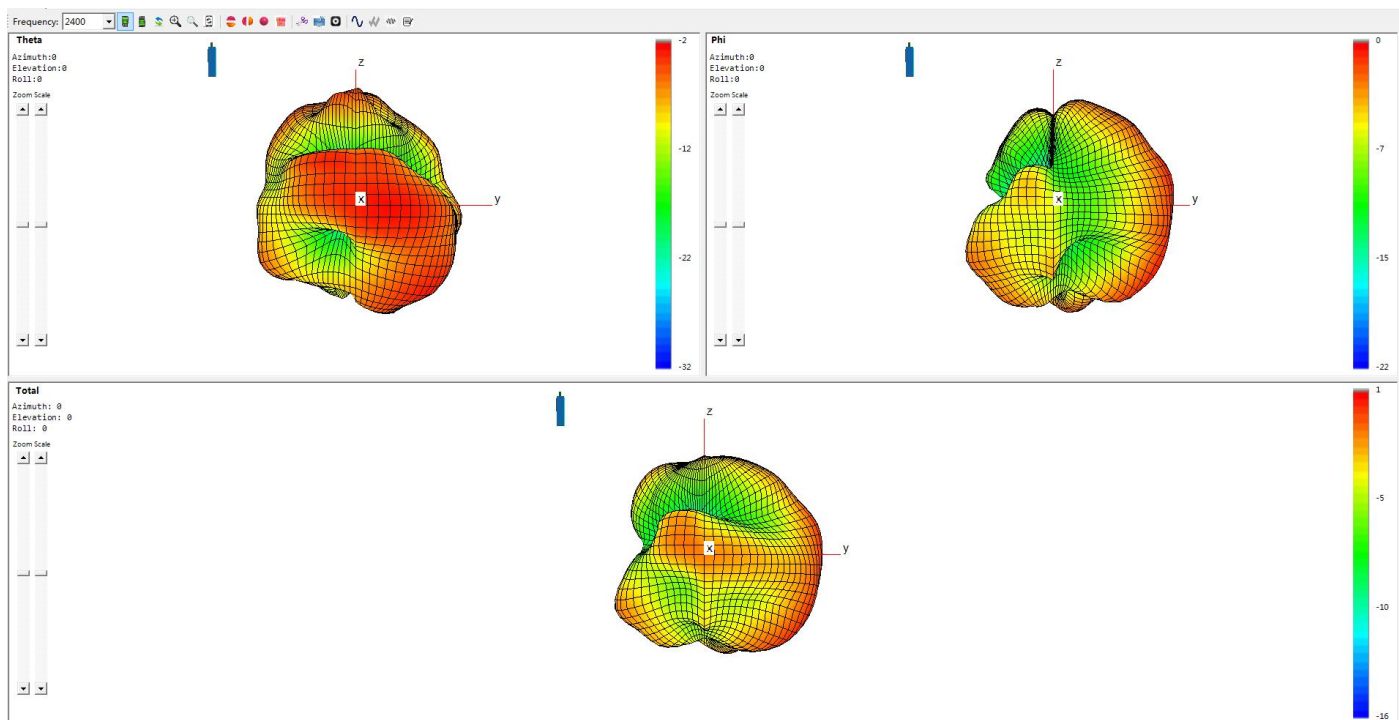
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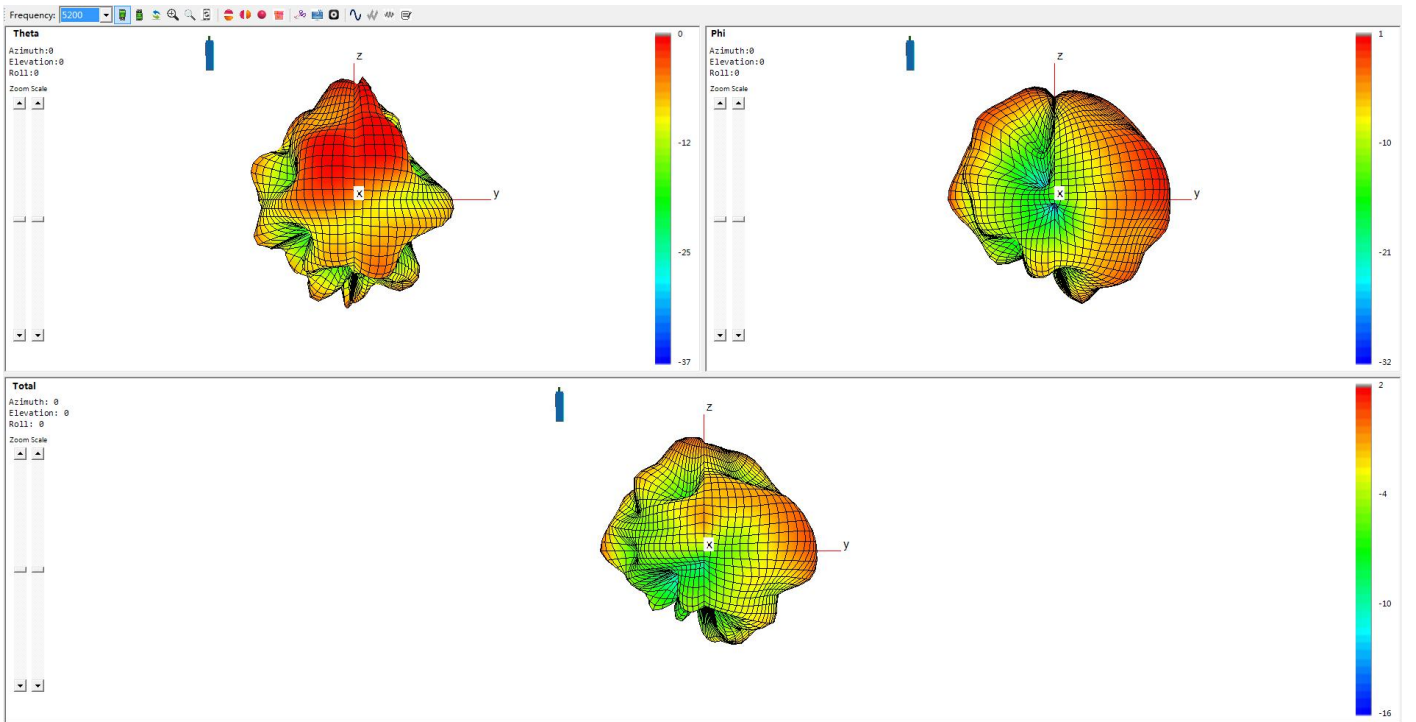
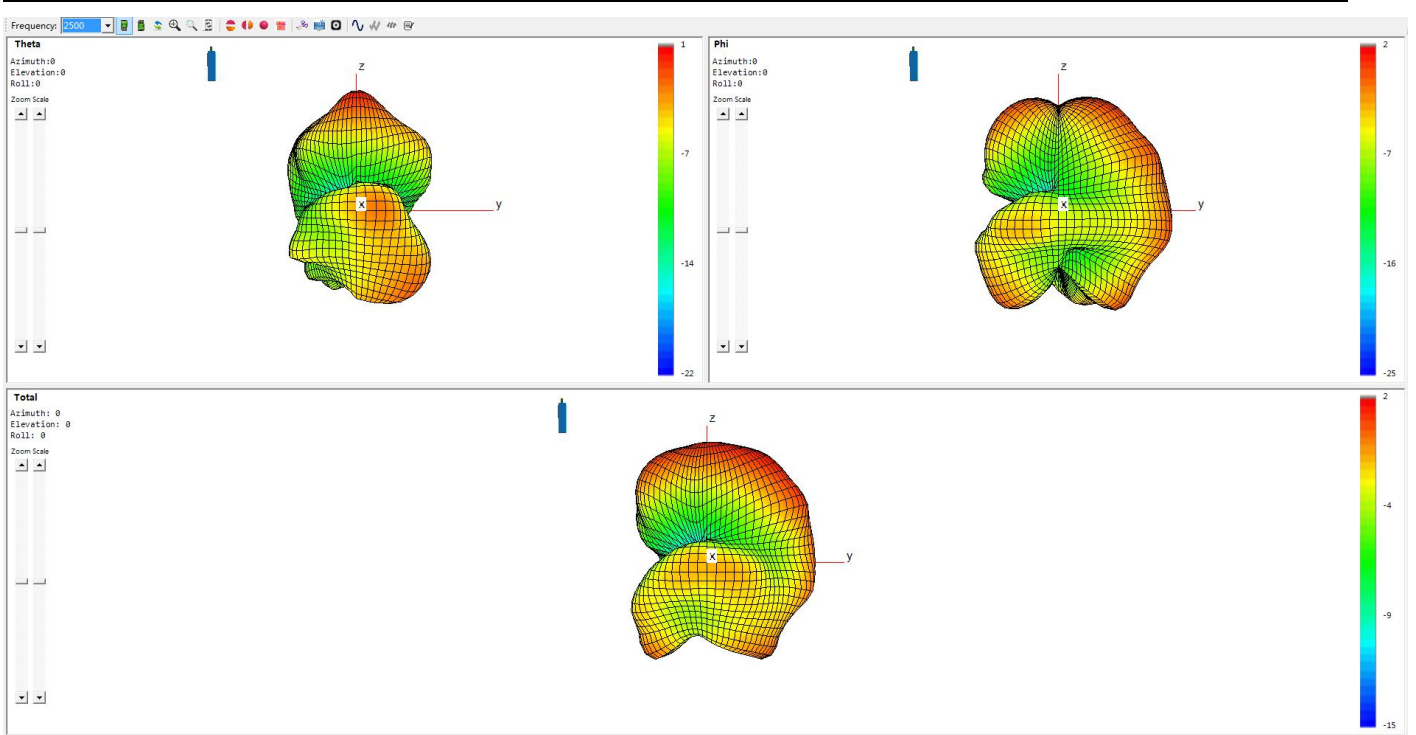


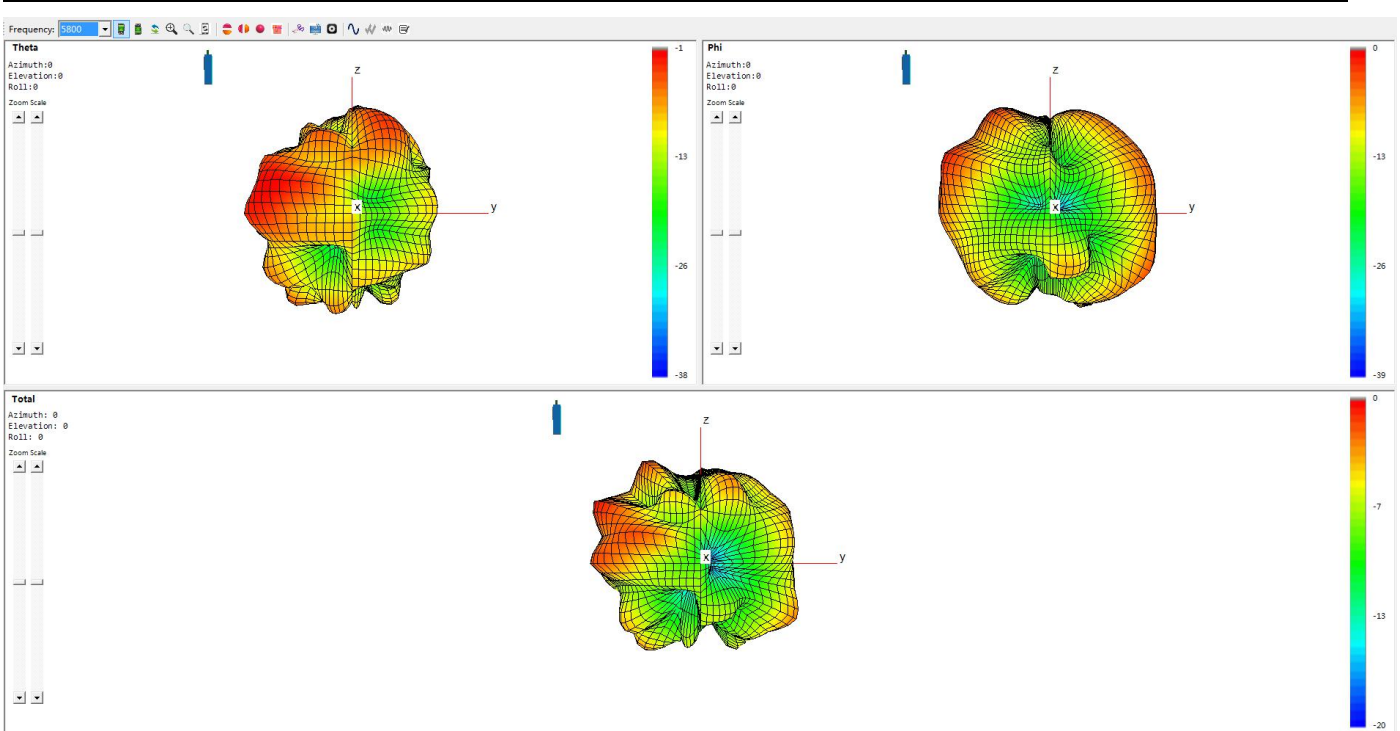


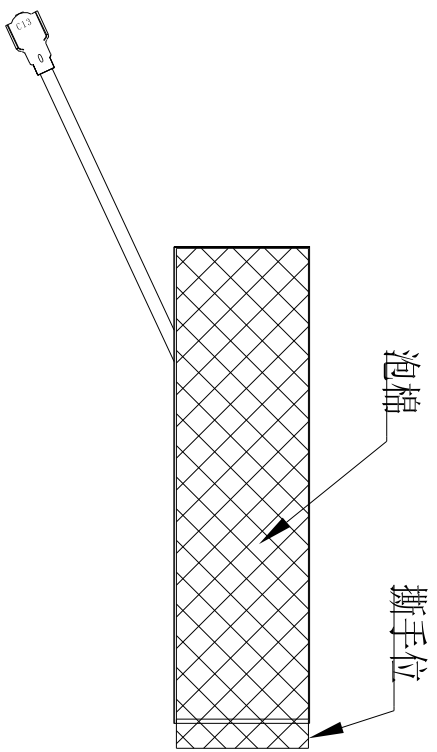
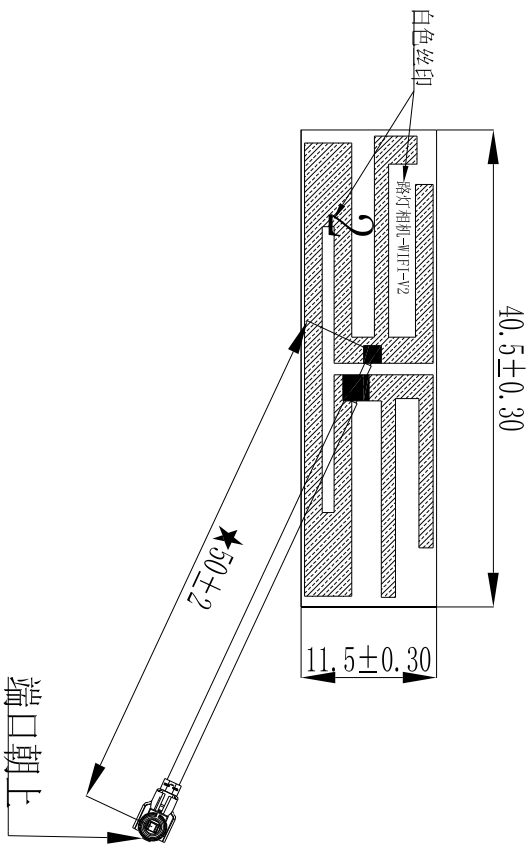


2#









- 备注:
- 1、打“★”为严格控制尺寸(必测等级A)
 - 2、组装后外观不得有划伤、毛边,露铜,丝印不良,撕手未切断等缺陷;
 - 3、具体质量要求见VLG质量文件VLG/JY8-2-08中第六条款规定。
 - 4、产品必须符合EU DIRECTIVE 2002/95/EC (ROHS) 的要求

Name	Material	Color	Treatment	Amount	Remark
4 泡棉	泡棉/T=0.2mm			1	
3 端子	一代镀金端子	金色		1	
2 端子线	φ1.13mm	黑色		1	
1 PCB	FR4/T=0.6mm	黑色		1	

序号	修改内容	日期	设计	备注
1				
2				

第三角法 0~10 ±0.10 ○ 0.02 10~20 ±0.15 ◎ 0.03 20~40 ±0.20 ⊥ 0.02 > 40 ±0.25 ∠ 0.04 0.02		机种 路灯相机 WIFI天线 V1350-113-A-01		日期 2021.12.25 页码 1 OF 1	
外观处理 模面处理 结构审核 品质审核 批准		单位名称 深圳市维力谷无线技术股份有限公司 Shenzhen VLG Wireless Technology Co., Ltd		RF确认	
请勿实测图框位置		外部处理		版本 R:A	

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