

天 线 规 格 书

客 户 名 称:

CUSTOMER NAME

产 品 型 号

PRODUCT NAME:

405-4G-GSM

客 户 料 号

CUSTOMER P/N:

电 子 料 号

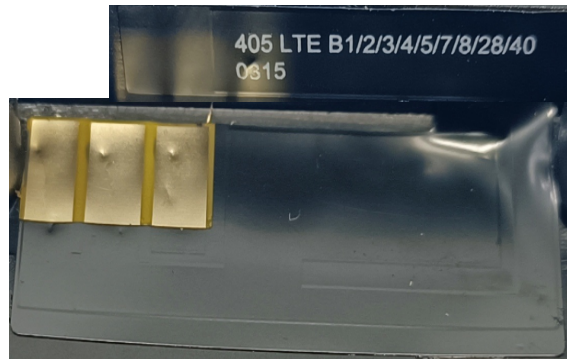
P/N:

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2023. 04. 18	

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Product Photo:



1. Specification:

主要技术指标		Main technical specifications	
频率范围 (MHZ)	700-2700MHZ	Frequency Range (MHZ)	700-2700MHZ
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	1±0.5	Gain(dBi)	1±0.5
输出电压 驻波比	≤1.92	VSWR	≤1.92
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear,Vertical
连接方式	顶针	Connector Type	Thimble
物理性能		Physical Properties	
天线本体材料	FPC	Antenna Base	FPC
工作温度	-20℃~+65℃	Operating Temp	-20℃~+65℃
保存温度	-30℃~+75℃	Storage Temp	-30℃~+75℃

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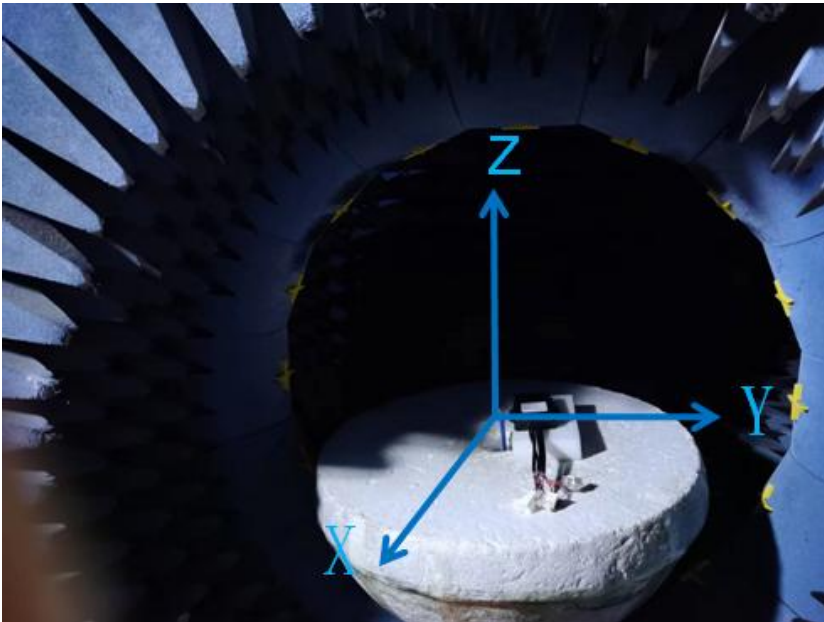
Address: Room 201, Building A, No.1 Qianwan 1st Road, Qianhai Shenzhen Hong Kong Cooperation Zone, Shenzhen, Guangdong

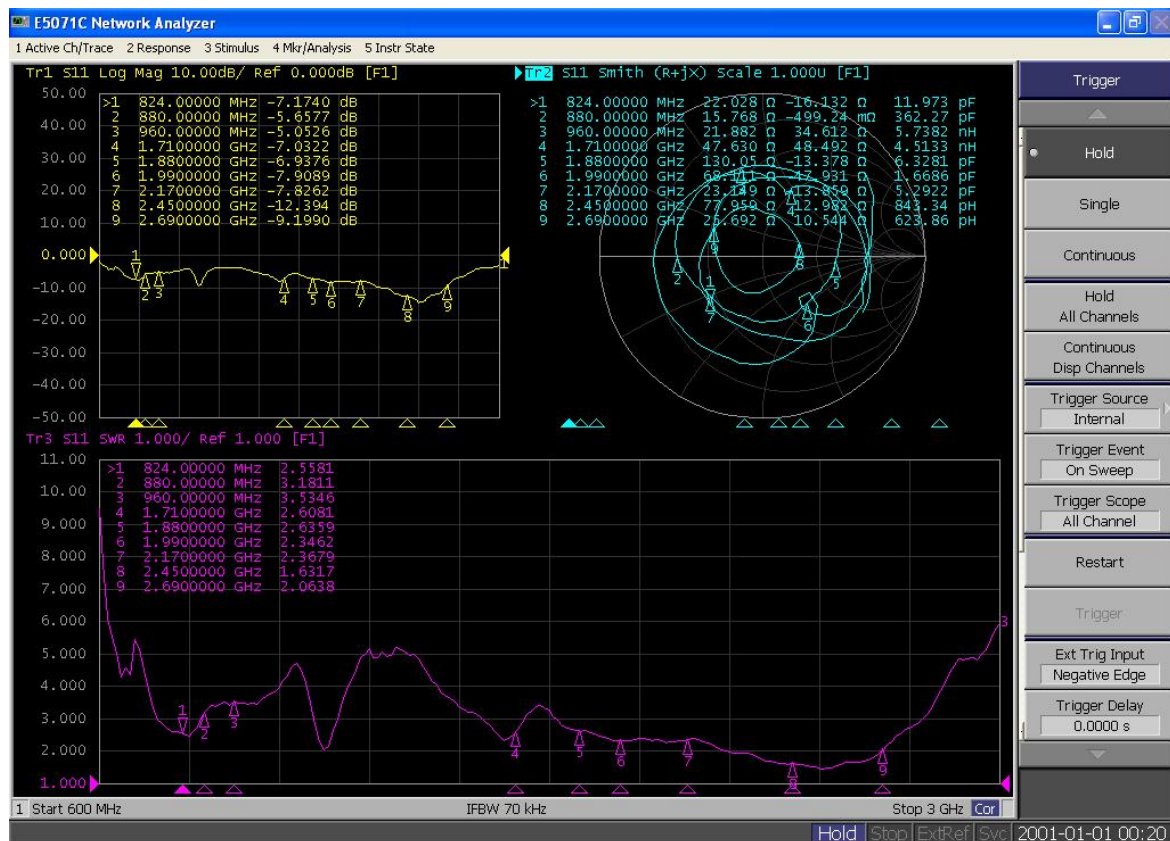
2、天线测试设备Antenna testing equipment:

天线输入特性测试使用 Agilent E5071C 矢量网络分析仪；天线辐射特性测试使用 Satimo Starlab 3D 近场微波暗室，使用仪器 Agilent CMW500 综测仪。

Agilent E5071C vector network analyzer was used to test antenna input characteristics. The radiation characteristics of the antenna were measured using a Satimo Starlab 3D near-field microwave darkroom and the instrument Agilent CMW500 synthesizer.

暗室测试坐标如
Test coordinate

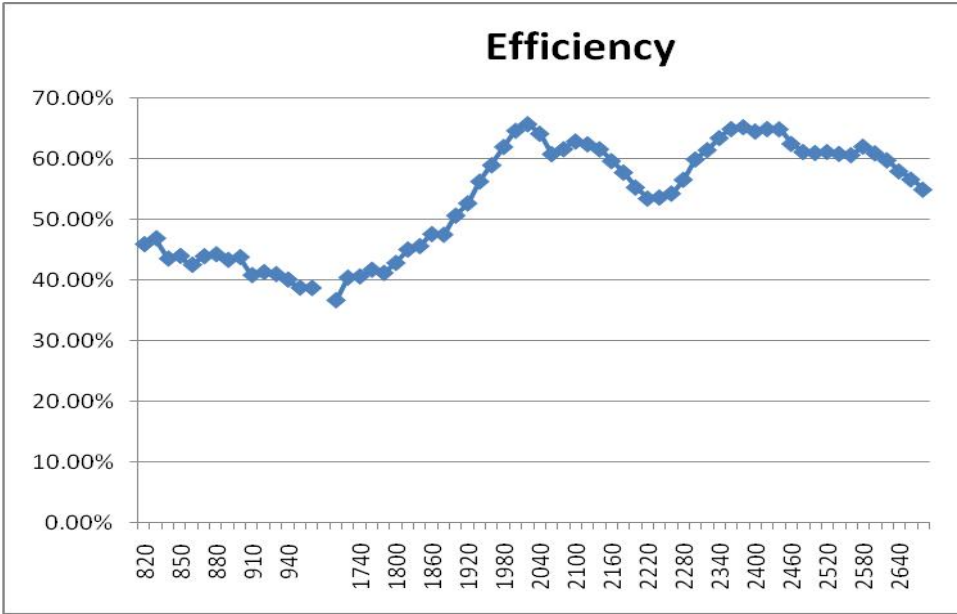




Frequency (MHz)	824	960	1710	2170	2350	2490	2690
VSWR	2.55	3.53	2.60	2.36	1.92	1.77	2.06

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Frequency (MHz)	820	960	1710	2170	2300	2500	2690
Efficiency (%)	45.9	38.64	36.6	58.1	59.93	61.01	54.93

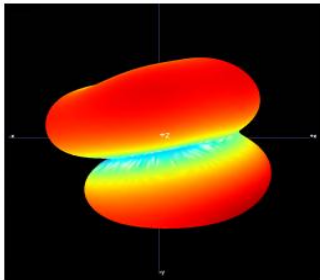
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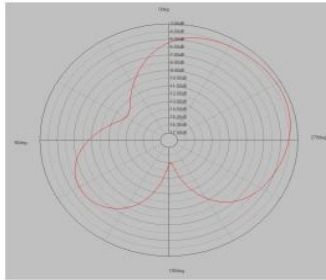
Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)
820	45.90%	-0.15	2060	60.82%	0.54
830	46.88%	-0.04	2080	61.64%	0.58
840	43.52%	-0.12	2100	62.91%	0.55
850	43.95%	-0.36	2120	62.45%	0.56
860	42.48%	-0.36	2140	61.61%	0.58
870	43.91%	-0.34	2160	59.66%	0.52
880	44.23%	-0.09	2180	57.77%	0.60
890	43.30%	-0.65	2220	53.45%	0.51
900	43.76%	-0.47	2240	53.63%	0.59
910	40.78%	-0.04	2260	54.28%	0.57
920	41.27%	-0.13	2280	56.57%	0.58
930	40.94%	0	2300	59.93%	0.57
940	40.04%	-0.33	2320	61.48%	0.6
950	38.69%	-0.58	2340	63.48%	0.59
960	38.64%	-0.54	2360	64.97%	0.62
1700	36.60%	-1.08	2380	65.28%	0.61
1720	40.36%	-1.14	2400	64.56%	0.61
1740	40.55%	-1.1	2420	64.98%	0.58
1760	41.67%	-0.84	2440	64.93%	0.52
1780	41.13%	-0.49	2460	62.51%	0.57
1800	42.79%	-0.28	2480	61.17%	0.51
1820	45.01%	0.07	2500	61.01%	0.58
1840	45.58%	0.58	2520	61.18%	0.52
1860	47.57%	0.36	2540	60.86%	0.53
1880	47.46%	0.42	2560	60.65%	0.6
1900	50.63%	0.5	2580	62.05%	0.62
1920	52.66%	0.59	2600	60.95%	0.61
1940	56.27%	0.51	2620	59.79%	0.65
1960	58.98%	0.48	2640	57.97%	0.64
1980	62.01%	0.51	2660	56.61%	0.63
2000	64.69%	0.53	2690	54.93%	0.67
2020	65.77%	0.55			
2040	64.20%	0.50			

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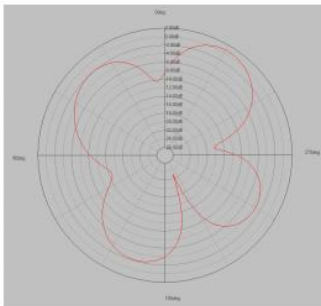
820MHz



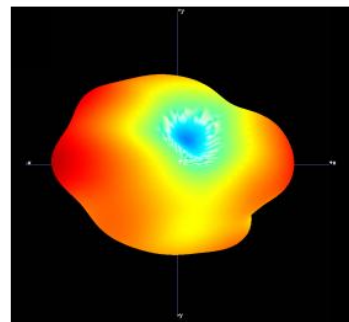
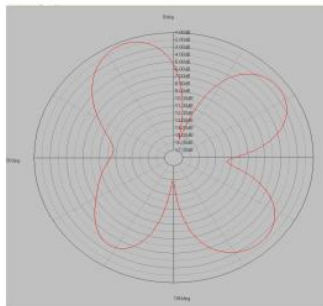
H plane



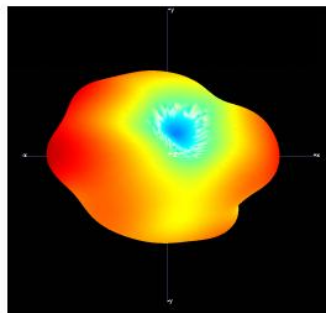
E1 plane



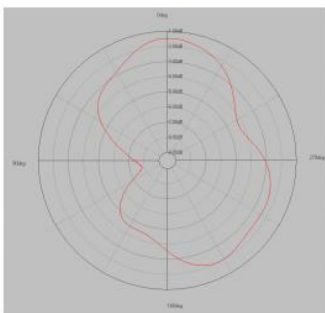
E2 plane



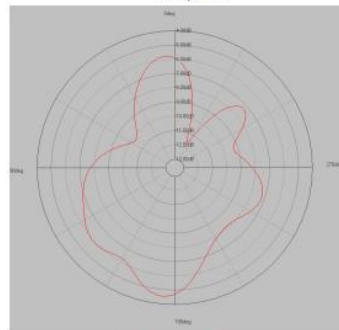
960MHz



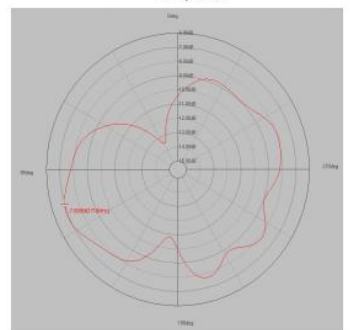
H plane



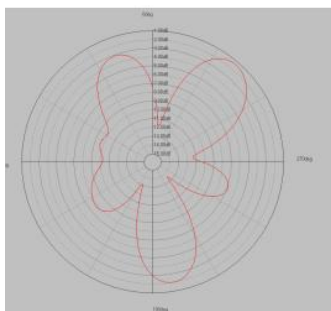
E1 plane



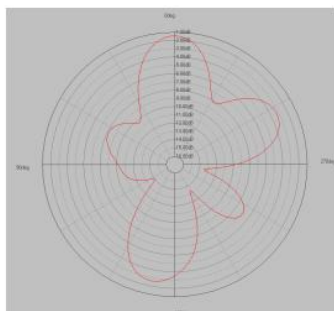
E2 plane



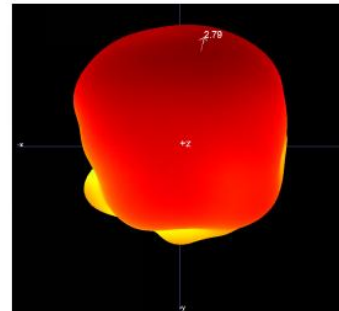
E1 plane



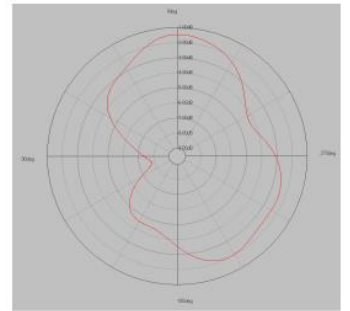
E2 plane



2690 MHz



H plane



1710MHz

H plane

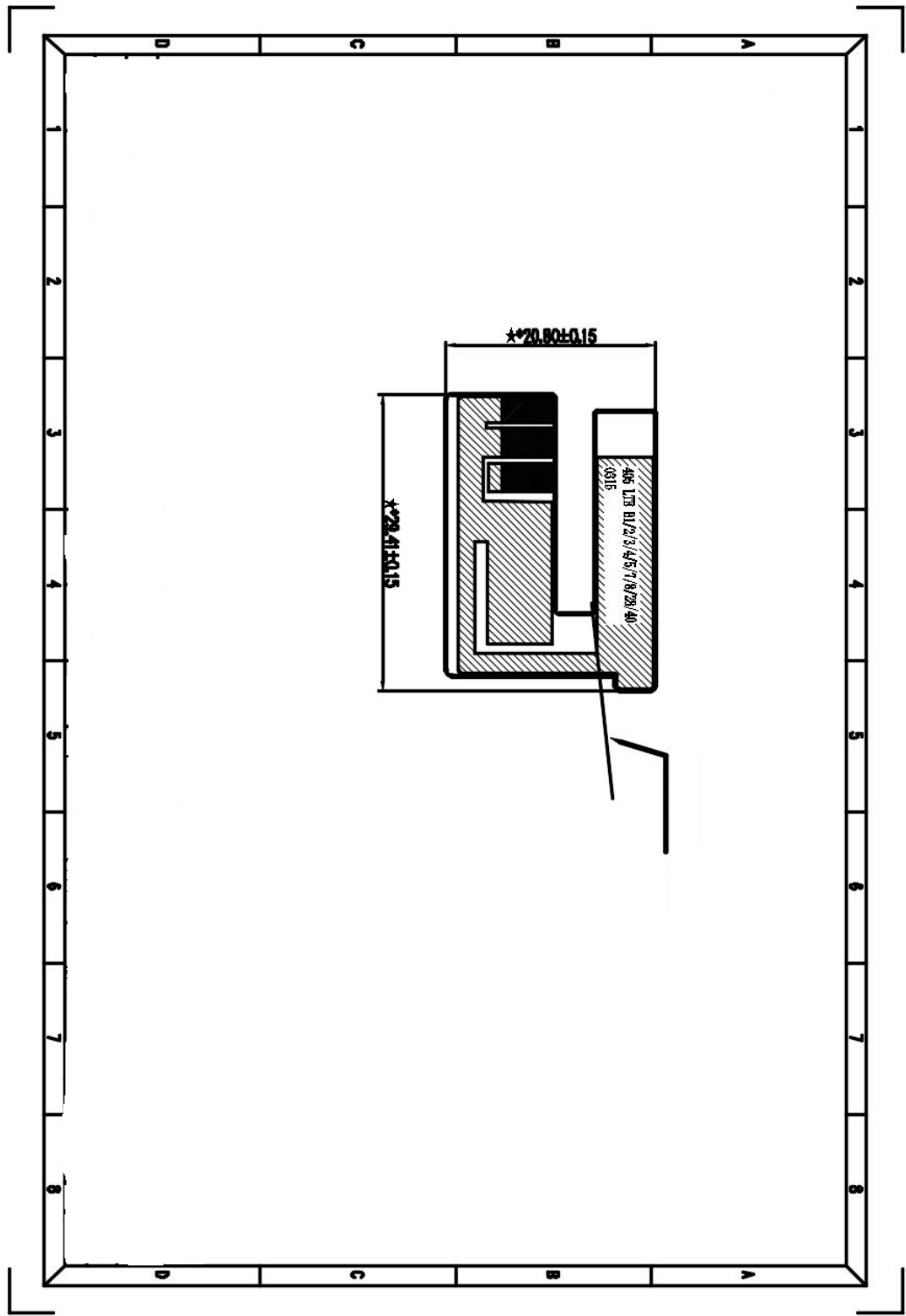
E1 plane

E2 plane

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产品图纸: Product drawing:



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