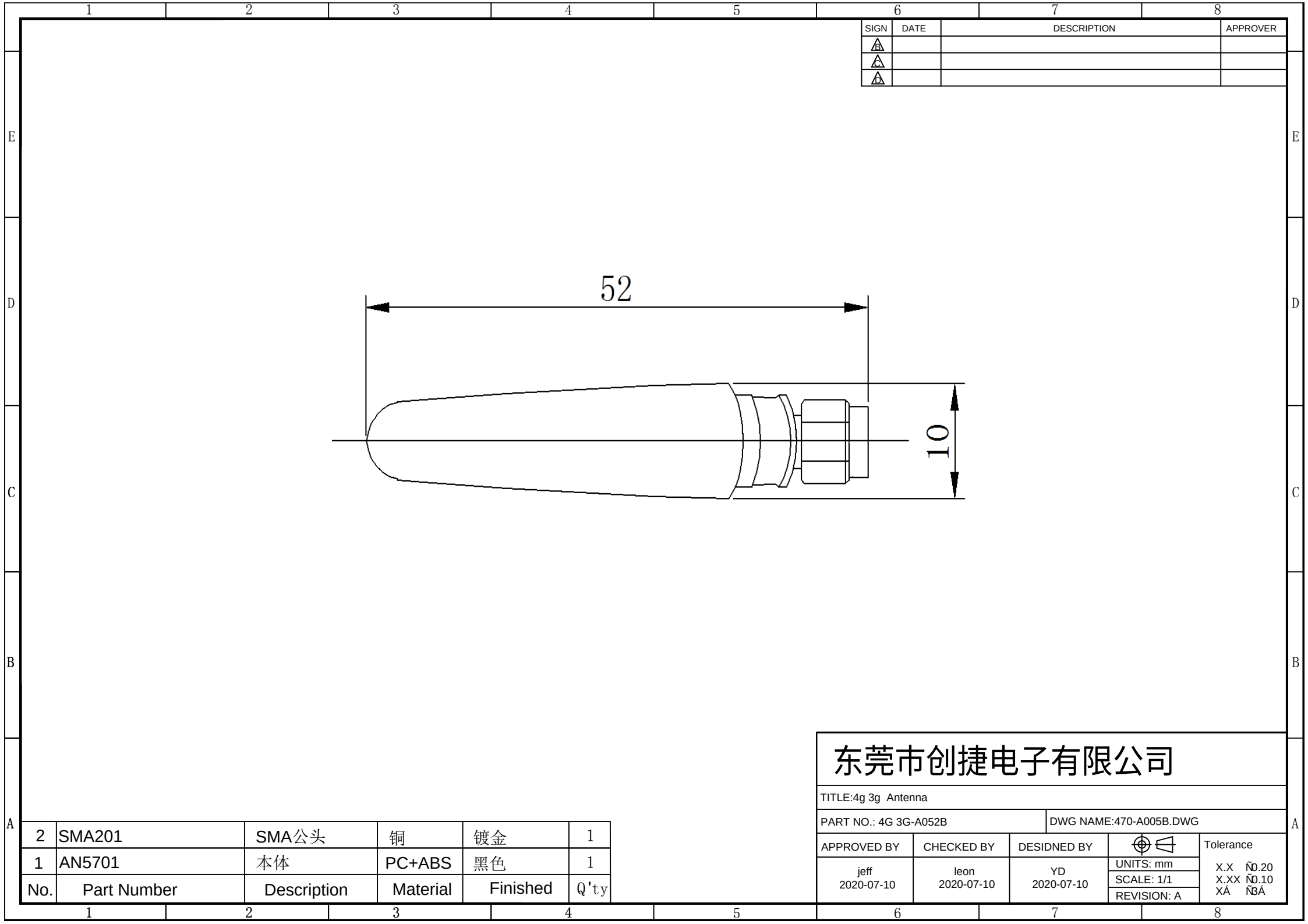


承认书项目表

Manufacturer: Shenzhen EPT Technology Co.,Ltd
Address: No 708,Block 12,Baoneng Technology Park,Bantian Road,Longgang
District, Shenzhen, China

NO.	内容 (Contents)	页数 (Number of Page)	页码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	电性测试报告 (Test Reports)	1	4
5	S 参数测试 (S Parameter)	1	5
6	增益测试 (Gain Test)	1	6
7			
8			
9			
10	-	-	-
11	-	-	-
12	-	-	-



SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

2	SMA201	SMA公头	铜	镀金	1
1	AN5701	本体	PC+ABS	黑色	1
No.	Part Number	Description	Material	Finished	Q'ty

东莞市创捷电子有限公司							
TITLE:4g 3g Antenna							
PART NO.: 4G 3G-A052B				DWG NAME:470-A005B.DWG			
APPROVED BY		CHECKED BY		DESIDNED BY			Tolerance
jeff 2020-07-10		leon 2020-07-10		YD 2020-07-10		UNITS: mm	X.X 0.20
						SCALE: 1/1	X.XX 0.10
						REVISION: A	XA 0.05

电性测试报告

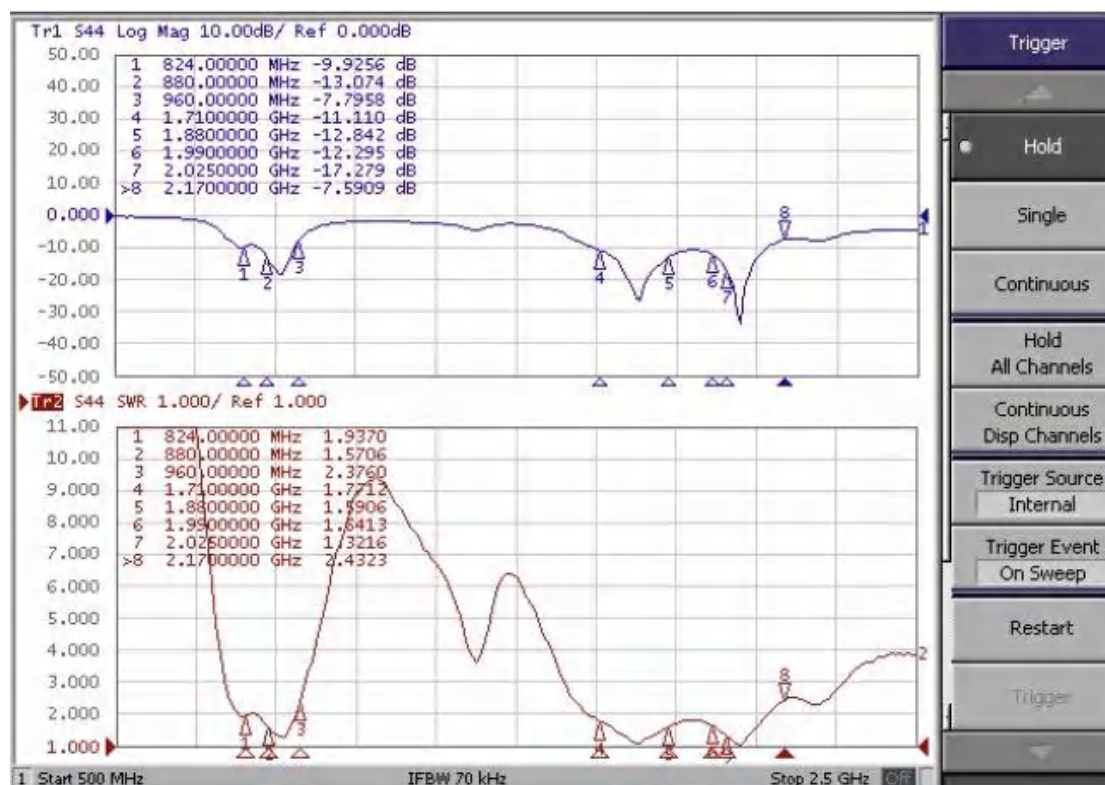
Test Reports

Sample Photo	
	
A. Electrical Characteristics	
Frequency	760-960MHz 2400-2500MHz
S.W.R.	≤ 2.0
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	Body: PC+ABS
Connector Type	RP-SAM Female
Connector Pull Test	≥ 2 Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

S 参数测试

S Parameter Test

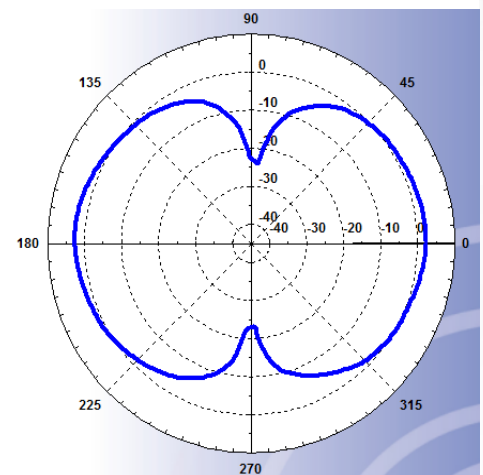
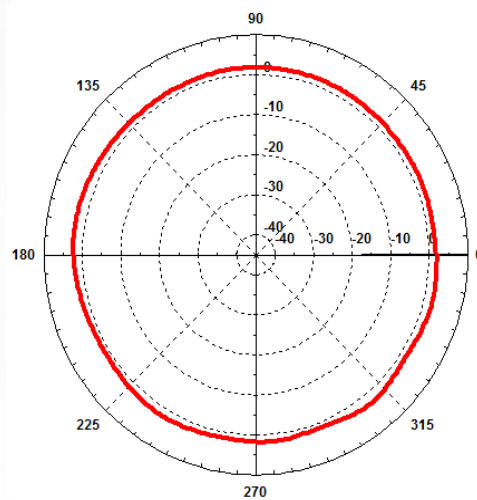
Agilent E5071C



增益测试

Gain Test

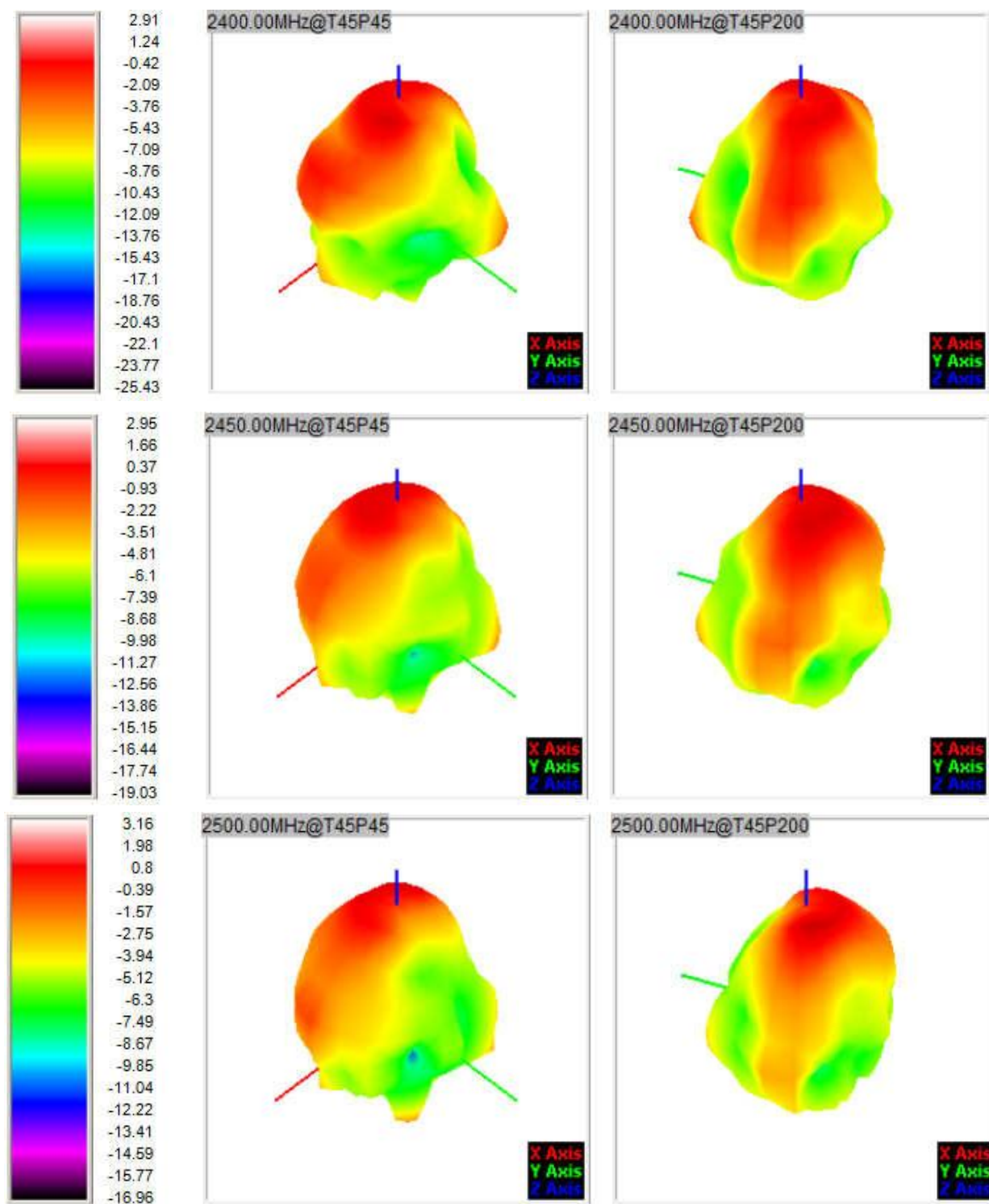
*Antenna
Radiation
Pattern
VS
Gain*



2、Antenna gain and efficiency

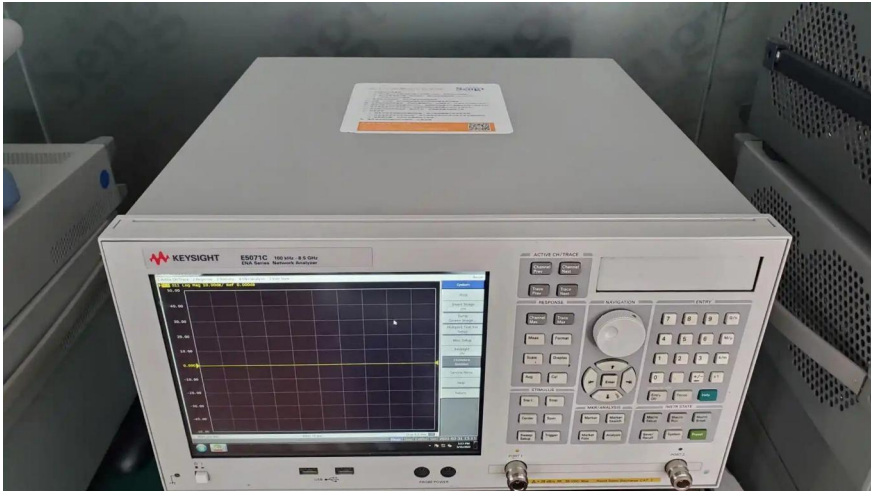
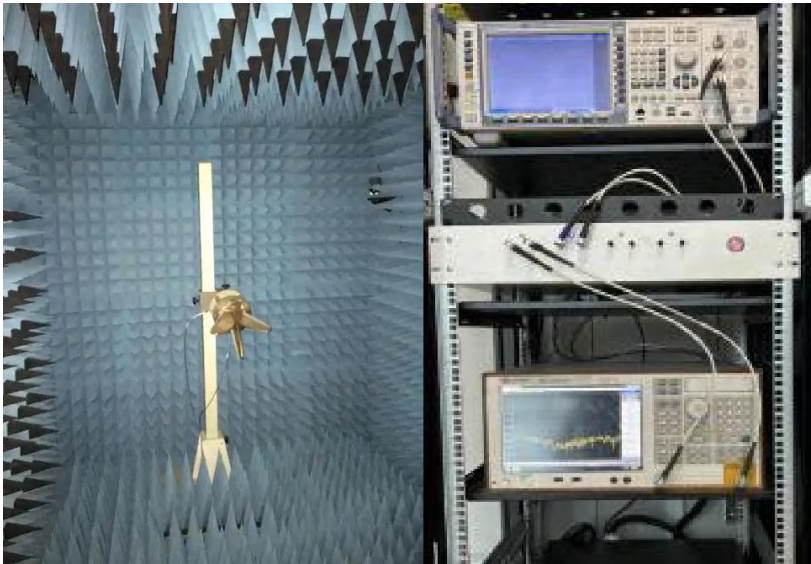
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Ant. Port Input Pwr. (dBm)	0	0	0	0	0	0	0	0	0	0	0
Tot. Rad. Pwr. (dBm)	-3.51	-3.45	-3.4	-3.41	-3.42	-3.38	-3.37	-3.48	-3.65	-3.71	-3.8
Peak EIRP (dBm)	2.91	2.92	2.9	2.94	2.91	2.95	2.96	2.89	2.96	3.12	3.16
Directivity (dBi)	6.42	6.37	6.31	6.35	6.34	6.33	6.33	6.38	6.61	6.83	6.97
Efficiency (dB)	-3.51	-3.45	-3.4	-3.41	-3.42	-3.38	-3.37	-3.48	-3.65	-3.71	-3.8
Efficiency (%)	44.5	45.2	45.7	45.6	45.5	45.9	46.1	44.8	43.1	42.6	41.7
Gain (dBi)	2.91	2.92	2.9	2.94	2.91	2.95	2.96	2.89	2.96	3.12	3.16
NHPRP $\pm\pi/4$ (dBm)	-5.98	-5.92	-5.9	-5.9	-5.91	-5.86	-5.85	-5.97	-6.11	-6.15	-6.24
NHPRP $\pm\pi/6$ (dBm)	-7.82	-7.77	-7.74	-7.74	-7.74	-7.68	-7.66	-7.77	-7.9	-7.94	-8.05
NHPRP $\pm\pi/8$ (dBm)	-9.05	-9.04	-9.04	-9.05	-9.06	-8.99	-8.97	-9.06	-9.18	-9.2	-9.29
Upper Hem. PRP (dBm)	-5.08	-5.02	-5	-5.02	-5.05	-5.03	-5.04	-5.18	-5.37	-5.44	-5.54
Lower Hem. PRP (dBm)	-8.69	-8.62	-8.54	-8.5	-8.47	-8.39	-8.33	-8.39	-8.52	-8.54	-8.62
Upper Hem. PRP (%)	31.01	31.48	31.66	31.46	31.26	31.43	31.35	30.34	29.07	28.57	27.91
Lower Hem. PRP (%)	13.52	13.73	14	14.14	14.21	14.5	14.7	14.49	14.06	14.01	13.75

3、Antenna direction chart

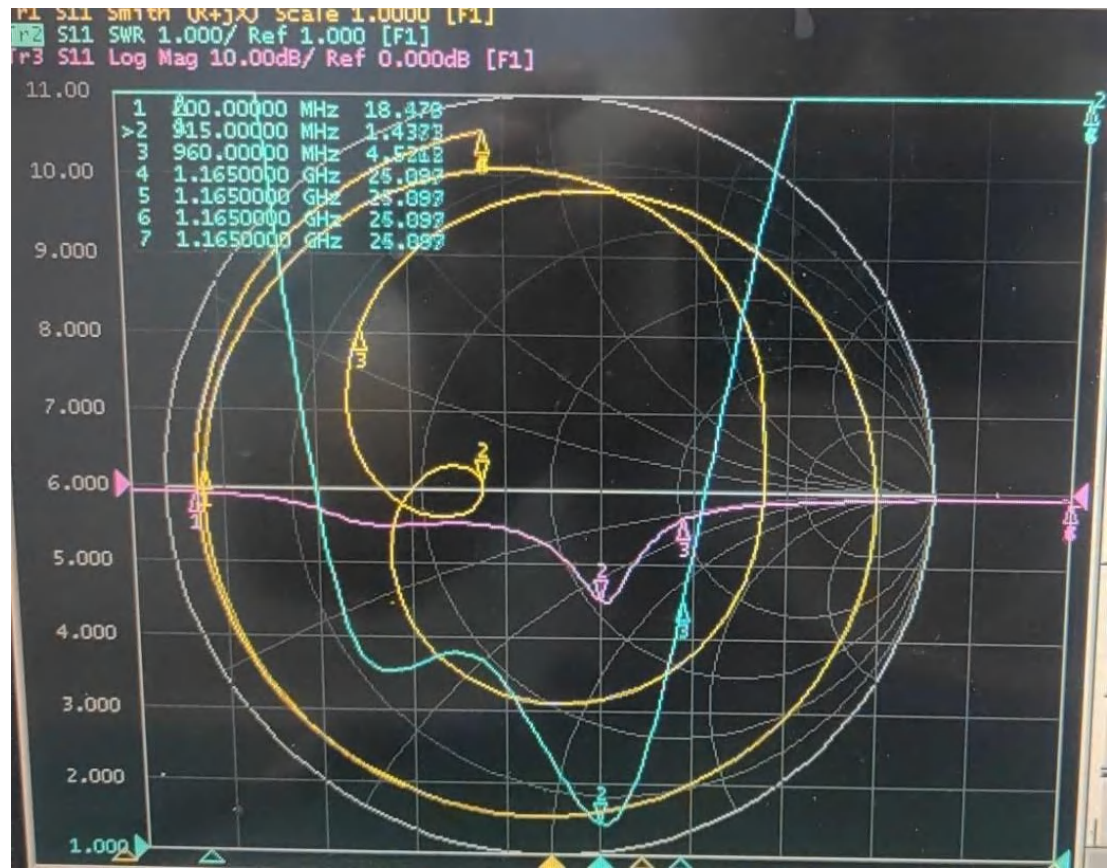


S 参数测试

测试类型	测试项目	设备
网分测试	1: 驻波比 2: 回波损耗 3: 史密斯圆图	网络分析仪
无源测试	1: 效率和增益 2: 辐射方向图	OTA 暗室



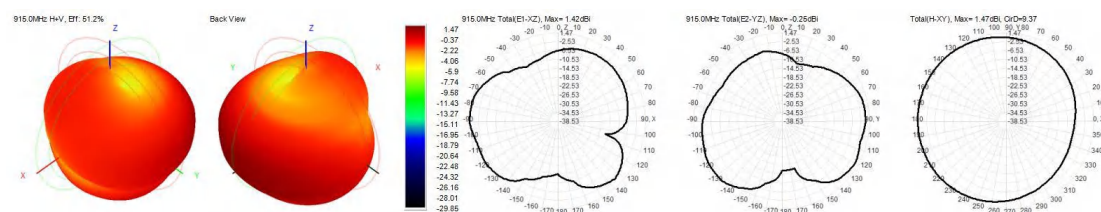
电压驻波比 (VSWR)/回波损耗 (Return Loss)/史密斯圆图 (Smith Chart)



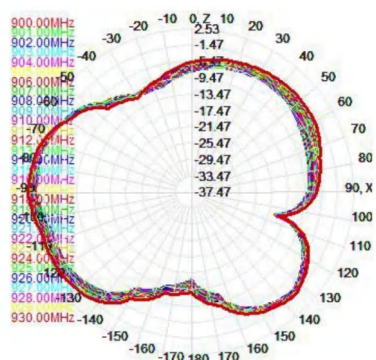
增益和效率 (Gain and efficiency)

Frequency(MHz)	Gain (dBi)	Efficiency(%)
900	0.56	40.71
905	0.75	44.06
910	1.07	48.00
915	1.47	51.25
920	1.80	54.22
925	2.18	57.95
930	2.53	61.56

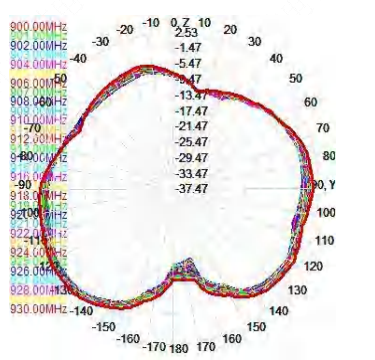
辐射方向图 (Radiation Patter



XZ-Plane Total



YZ-Plane Total



XY-Plane Total

