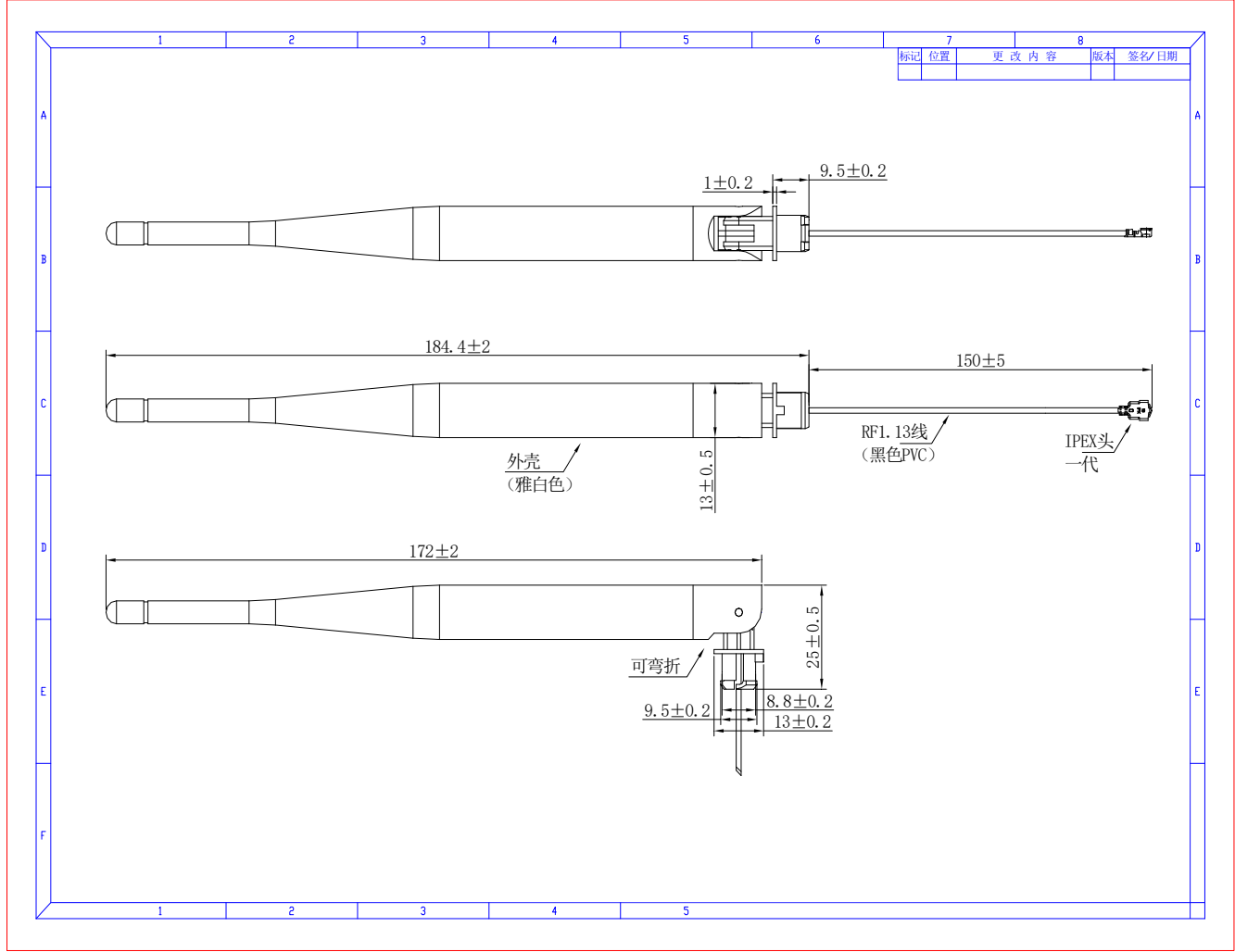
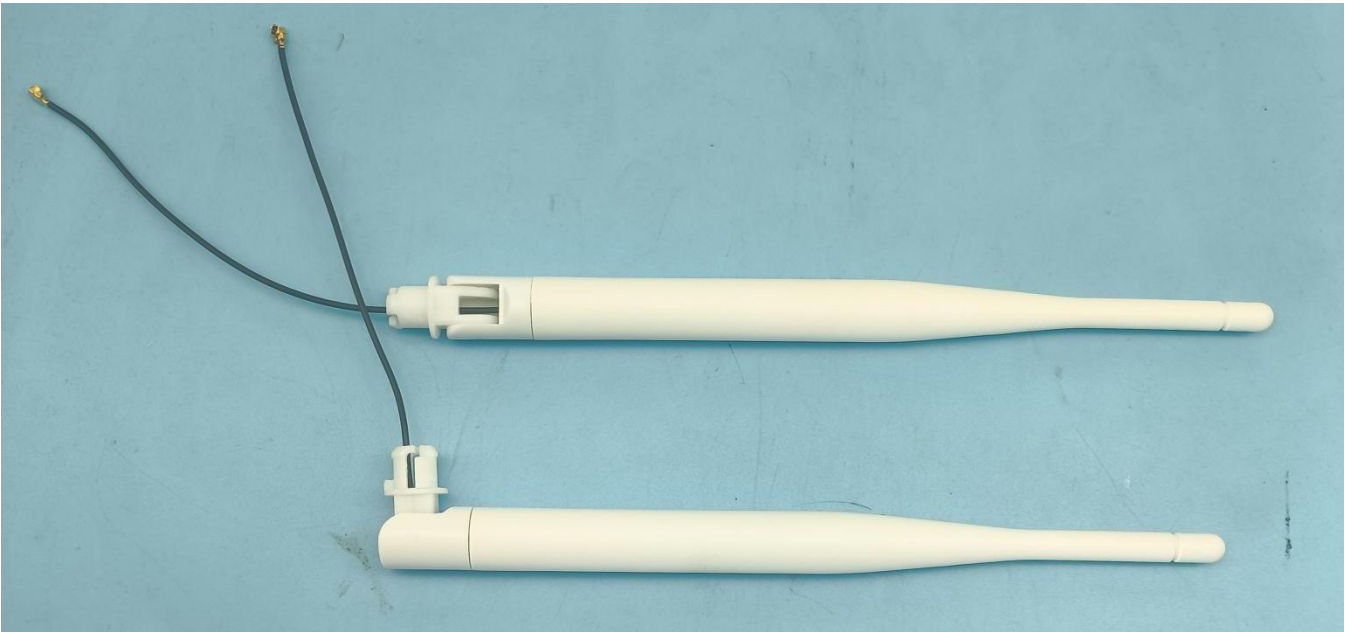


一、Product Structure Drawing(mm)



二、Physical picture

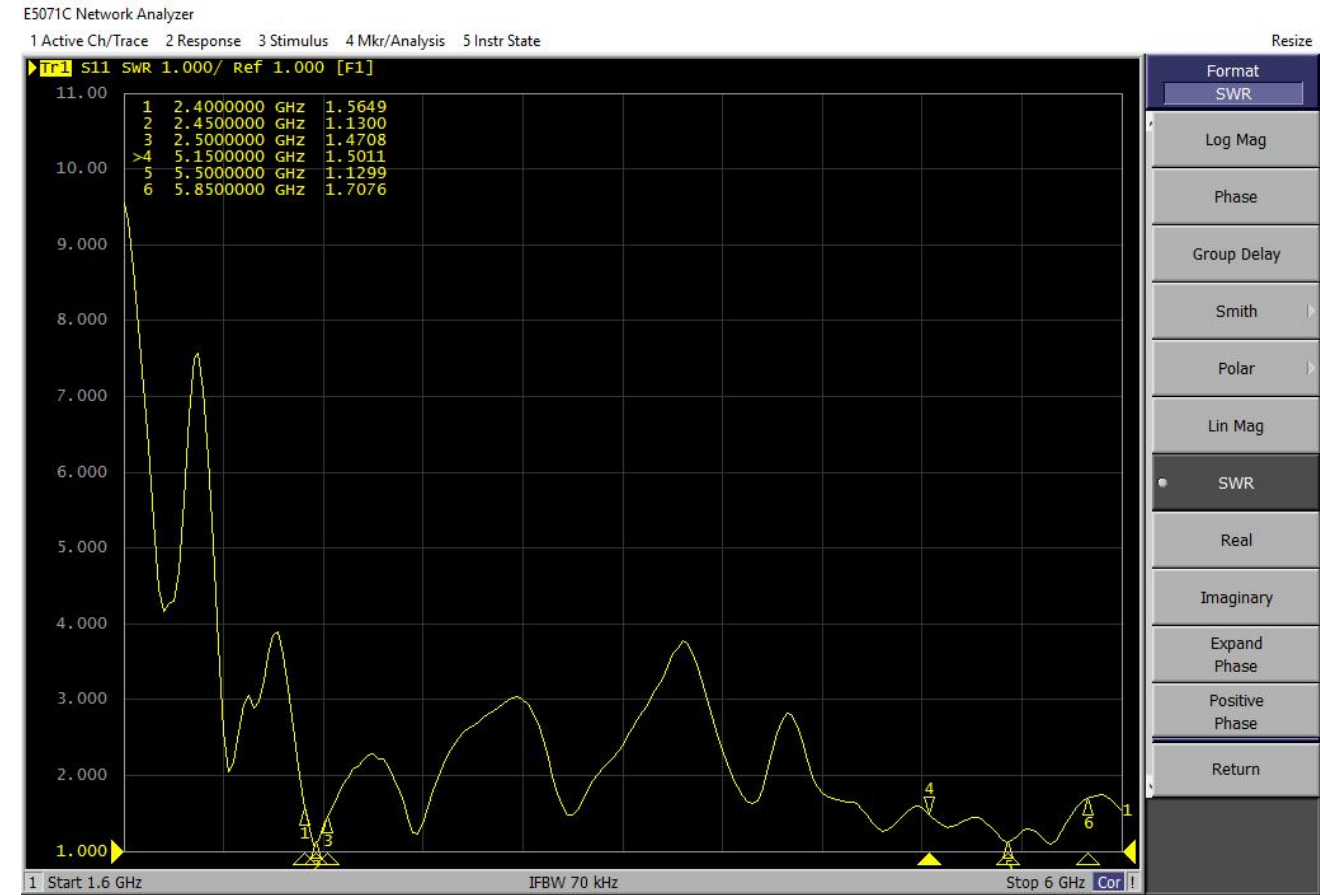


三、Antenna technical parameters

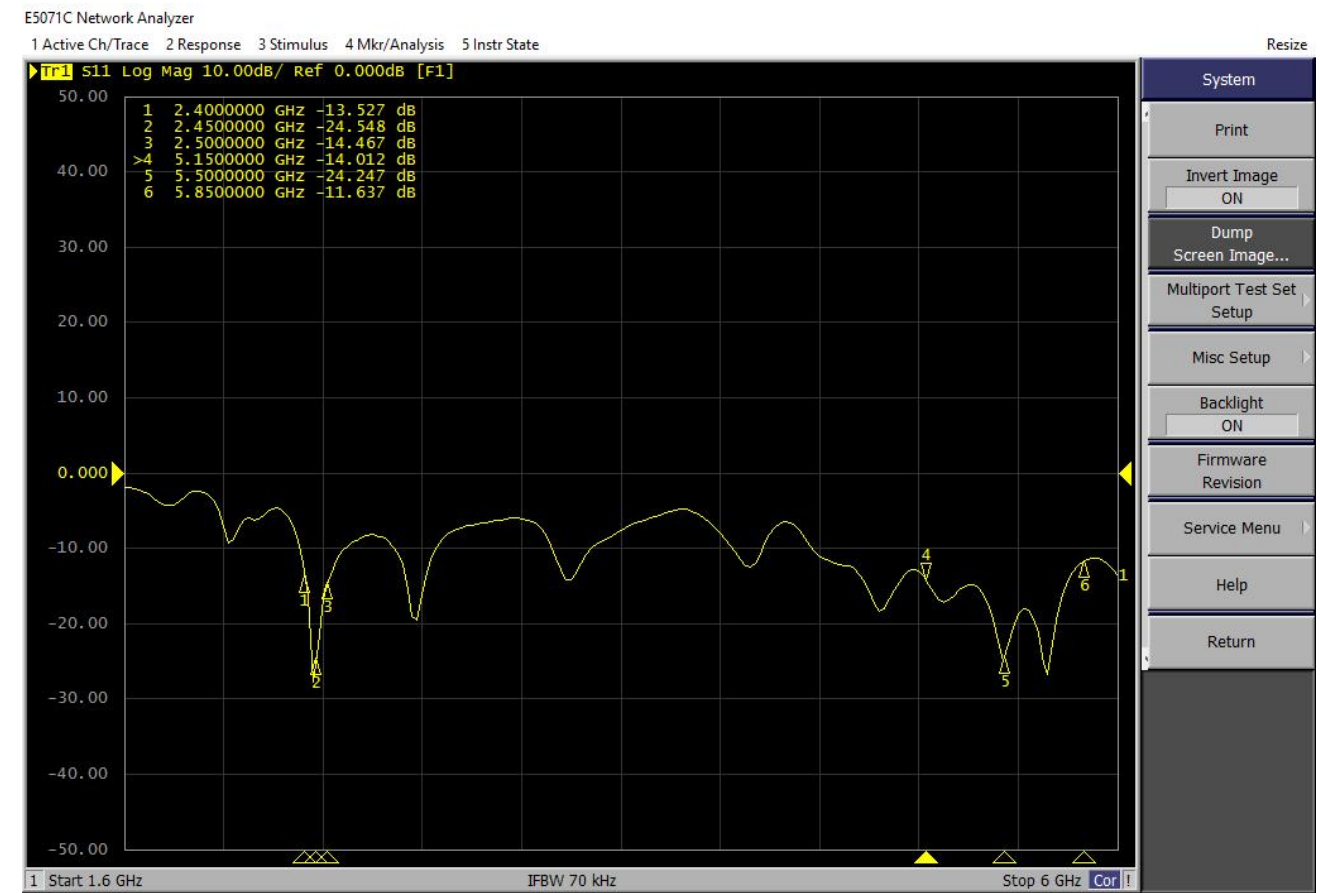
Design Specifications	Typical
antenna form	Rod antenna (can be bent 90 °)
工作频率(working Frequency)	2400-2500MHz、5150-5850MHz
增益 (Gain)	4.33dBi (平均) , 4.79dBi (峰值) @2400-2500MHz 3.42dBi (平均) , 4.76dBi (峰值) @5150-5850MHz
天线效率 (Antenna efficiency)	$\geq 50\%$ @2400-2500MHz $\geq 30\%$ @5150-5850MHz
电压驻波比 (VSWR)	≤ 2.0
极化方式(Polarization)	linear polarization
辐射方向(Radiation pattern)	Omnidirectional
馈电阻抗(impedance)	50 Ω
天线接口(Interface)	IPEX (一代) /RF1.13线 (黑色PVC) 外露长150mm
天线尺寸(Overall dimensions)	$\Phi 13 \times 184.4\text{mm}$
防水等级 (Waterproof grade)	IP67
重量(Weight)	12.2g
外壳颜色 (Color)	Elegant white
盐雾等级 (Salt spray grade)	48H (joint)
工作温度(Operatin Temp)	-40°C~80°C

四、Antenna performance testing

1、Standing wave ratio diagram

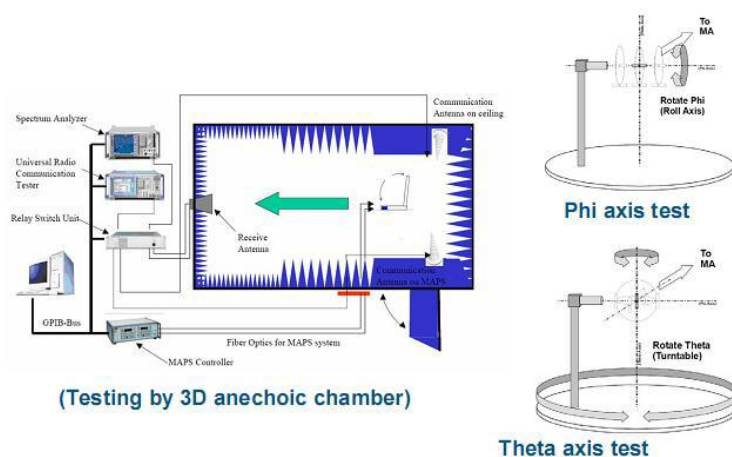


2、Return loss chart

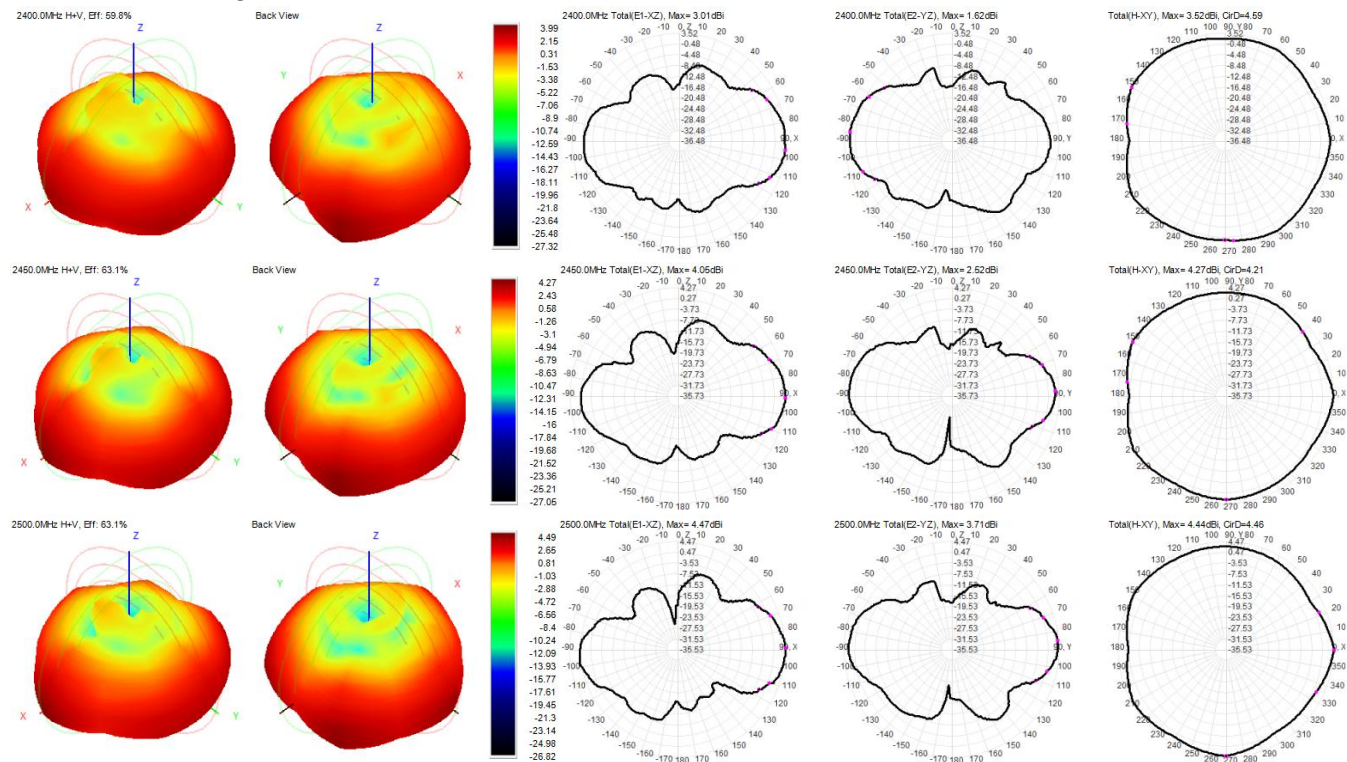


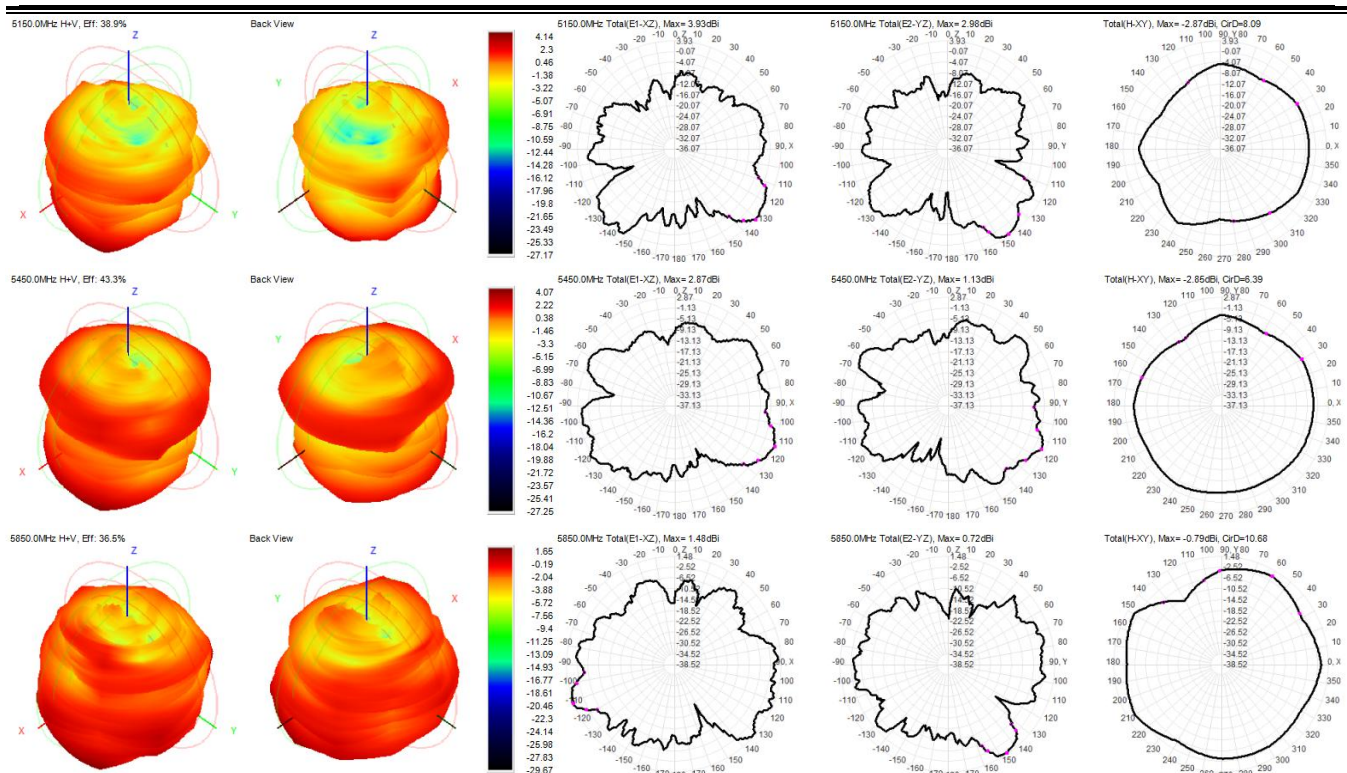
Microwave darkroom detection

The detection diagram is shown below:

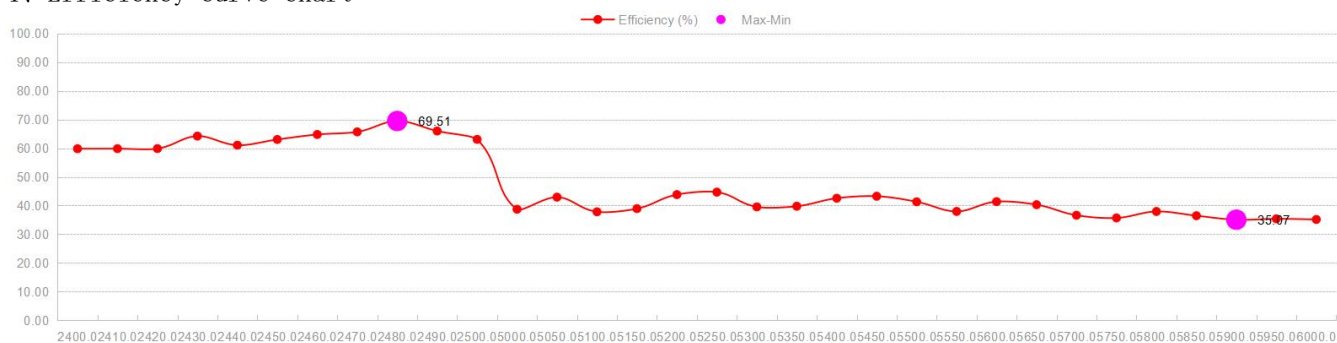


3、direction diagram (2D及3D图)

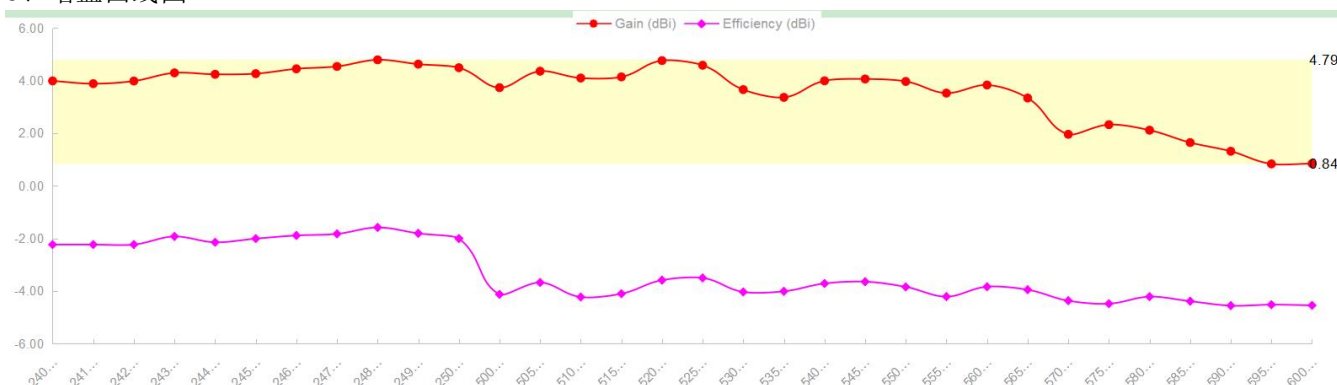




4、Efficiency curve chart



5、增益曲线图



6、Gain&Efficiency Value Table

频率 Frequency (MHz)	效率 Efficiency (dBi)	增益 Gain (dBi)	效率 Efficiency (%)
2400.0	-2.23	3.99	59.84
2410.0	-2.23	3.89	59.86
2420.0	-2.23	3.99	59.88
2430.0	-1.92	4.30	64.24
2440.0	-2.14	4.24	61.07
2450.0	-2.00	4.27	63.05

2460.0	-1.88	4.45	64.80
2470.0	-1.82	4.54	65.71
2480.0	-1.58	4.79	69.51
2490.0	-1.80	4.63	66.01
2500.0	-2.00	4.49	63.09
5150.0	-4.10	4.14	38.93
5200.0	-3.58	4.76	43.83
5250.0	-3.50	4.59	44.69
5300.0	-4.03	3.66	39.55
5350.0	-4.01	3.37	39.76
5400.0	-3.71	4.00	42.56
5450.0	-3.64	4.07	43.26
5500.0	-3.84	3.97	41.32
5550.0	-4.21	3.53	37.95
5600.0	-3.83	3.84	41.38
5650.0	-3.95	3.34	40.30
5700.0	-4.36	1.96	36.62
5750.0	-4.48	2.33	35.68
5800.0	-4.21	2.12	37.94
5850.0	-4.38	1.65	36.46
5150.0	-4.10	4.14	38.93
5200.0	-3.58	4.76	43.83
5250.0	-3.50	4.59	44.69
5300.0	-4.03	3.66	39.55