

APPlications

※Bluetooth Home RF

※ISM band 2.4GHz applications

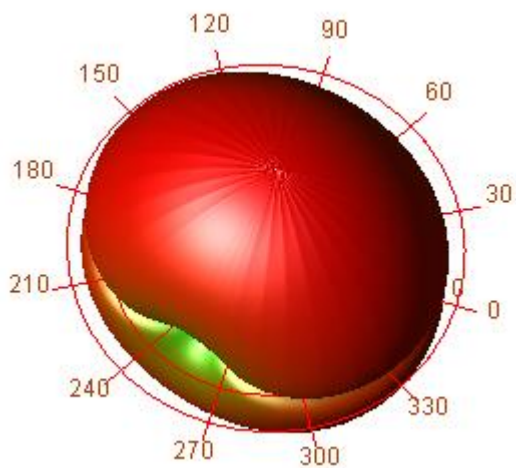
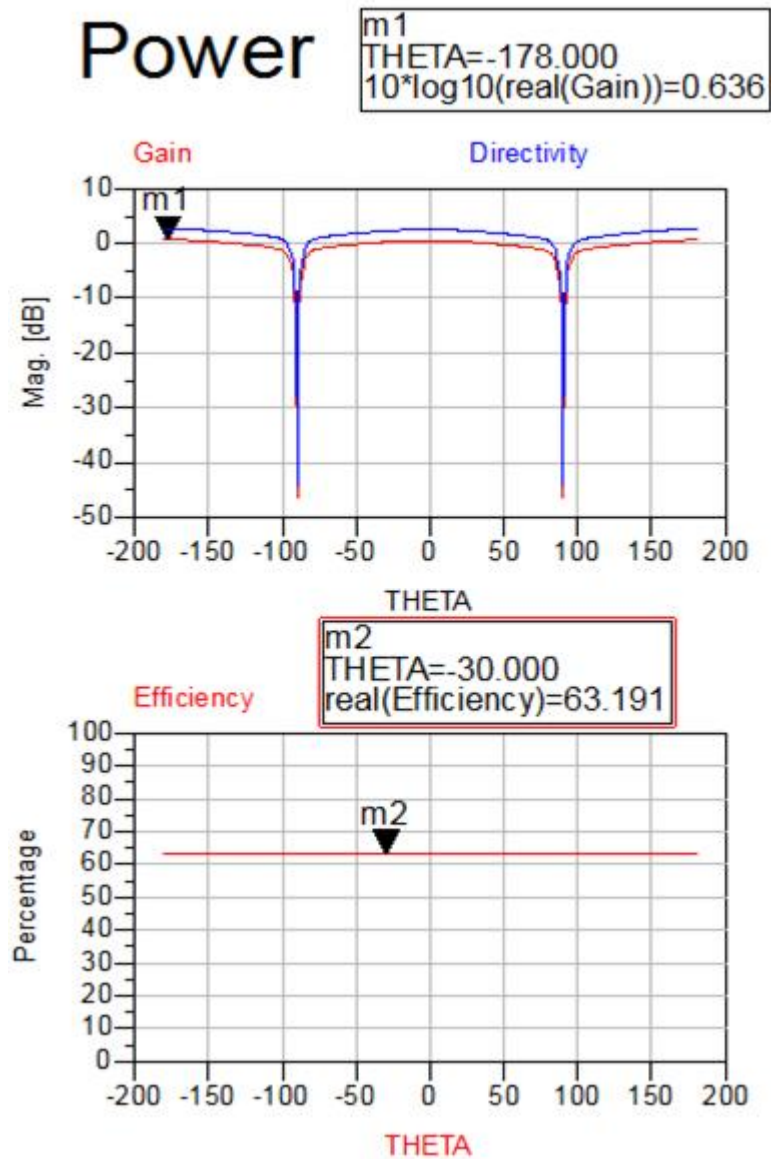
一、Dimensions



二、Specifications

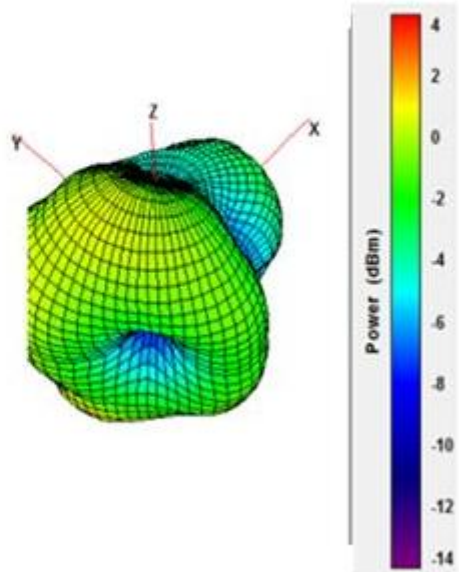
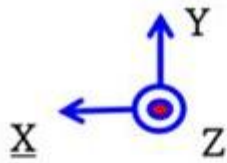
number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	1.06dBi
4	VSWR	≤ 2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 R

二、Simulation and Test



ANTENNA INFORMATION

- Antenna Radiation Pattern



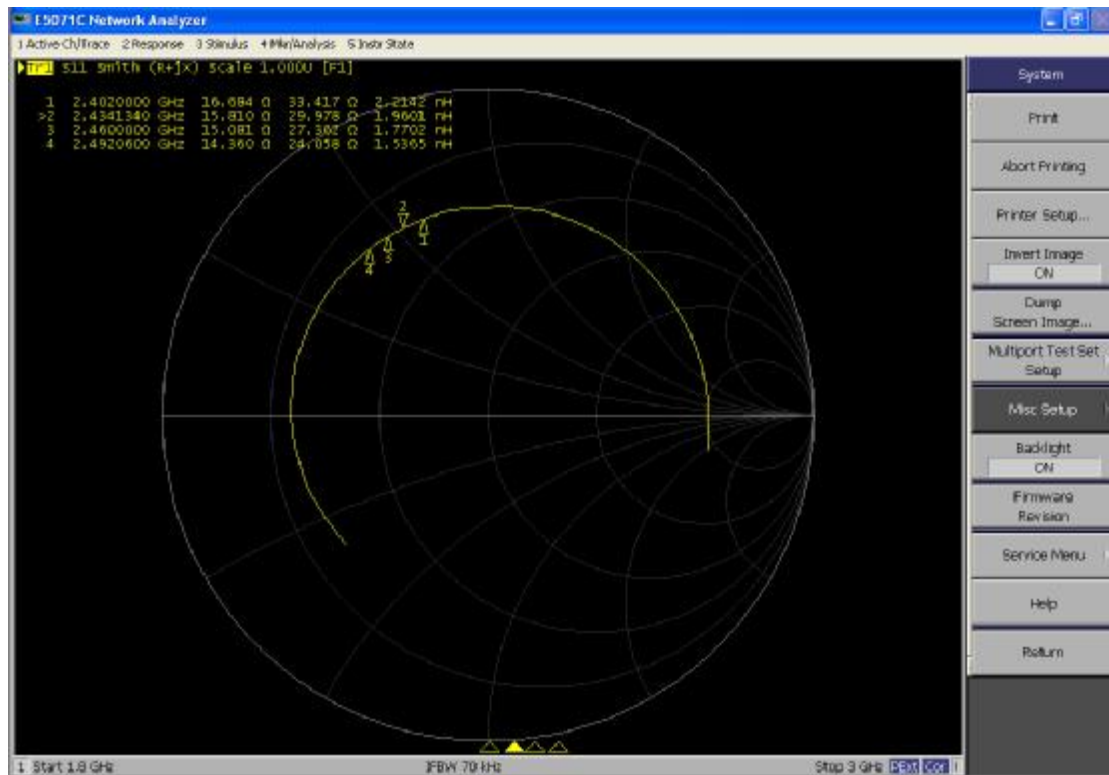
- Antenna Radiation Gain

Radiation Pattern			
Plane	Frequency [MHz]	Max Value [dB]	Average [dB]
ZX	2400	0.22	-3.47
	2450	0.22	-3.71
	2500	0.03	-3.86
ZY	2400	0.97	-2.23
	2450	1.06	-2.15
	2500	0.85	-2.17
XY	2400	-0.62	-4.55
	2450	-0.83	-4.74
	2500	-0.32	-4.66

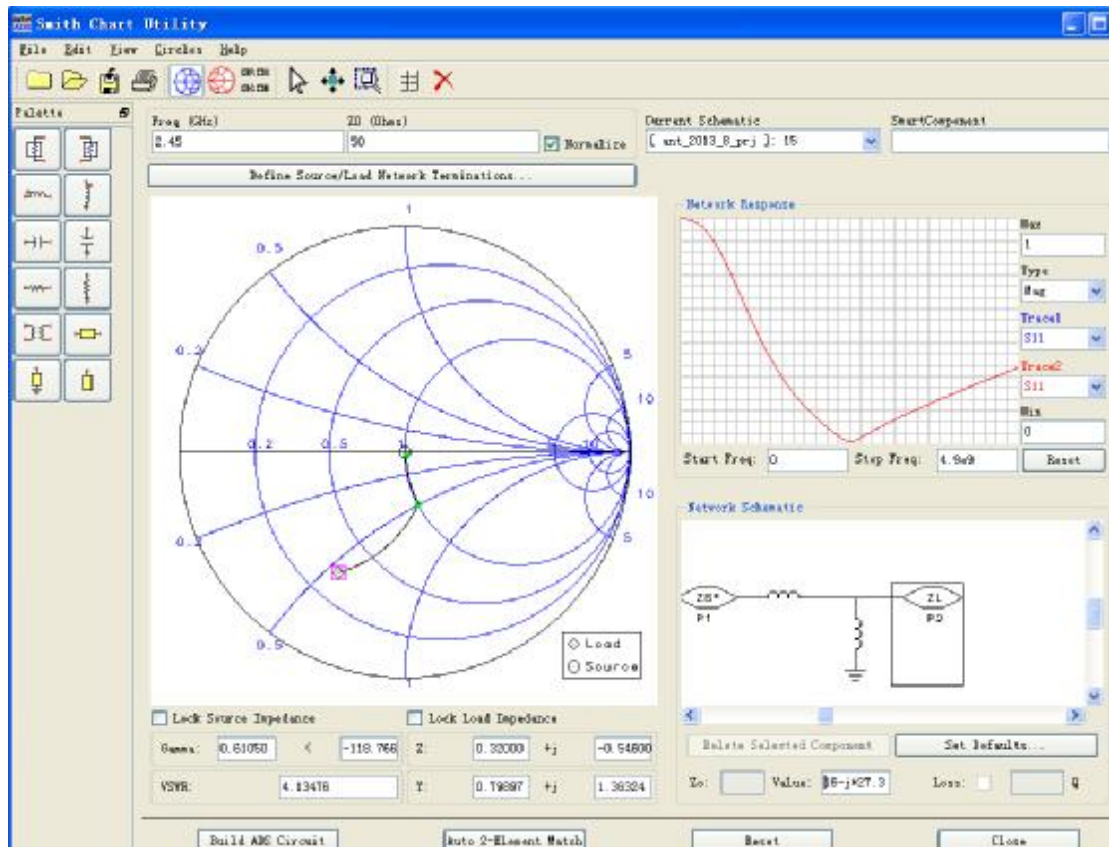
四、仪器实测数据

未进行匹配前的阻抗数据

中心阻抗大约： $16+j27.3$



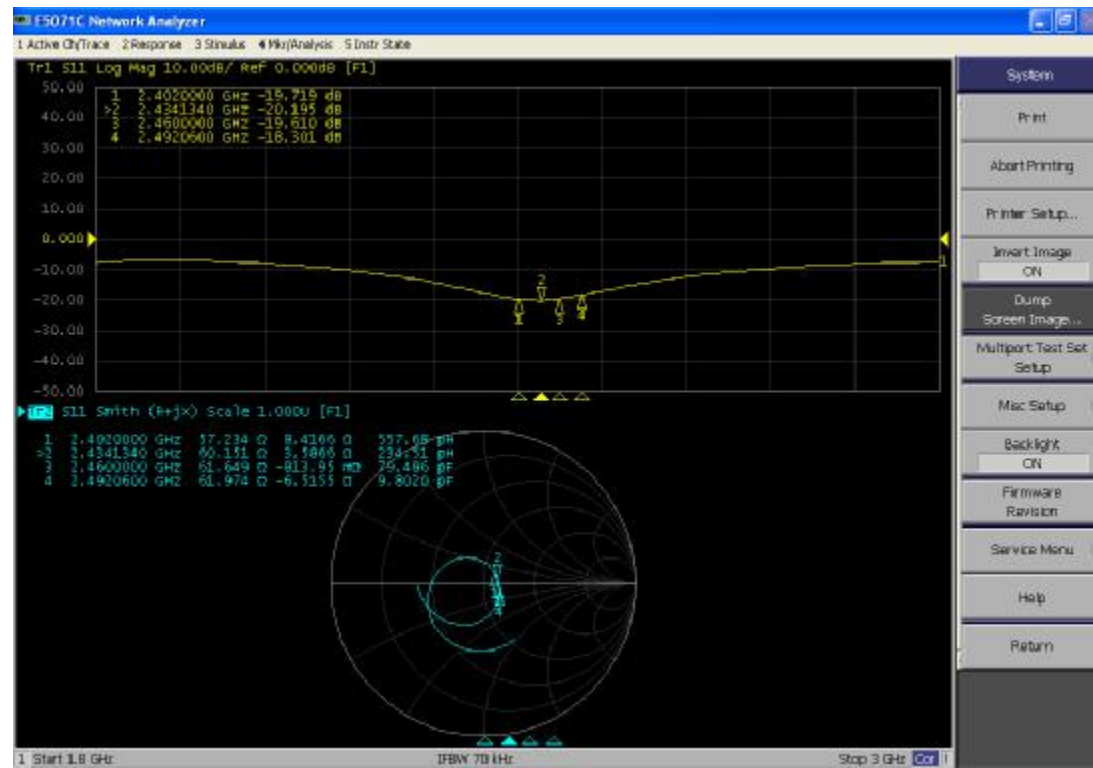
共轭匹配后



未进行匹配前的阻抗数据

1、Return Loss（匹配后的阻抗）

Mkr1:2402MHz	Mkr2:2434MHz	Mkr3:2460MHz	Mkr4:2492MHz
Mkr1:-19.7db	Mkr2:-20.1db	Mkr3:-19.6db	Mkr4:-18.3db



2、VSWR

Mkr1:2402MHz	Mkr2:2434MHz	Mkr3:2460MHz	Mkr4:2492MHz
Mkr1:1.22	Mkr2:1.24	Mkr3:1.28	Mkr4:1.33

