

-天线性能测试规格书-	Doc No.	
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M1

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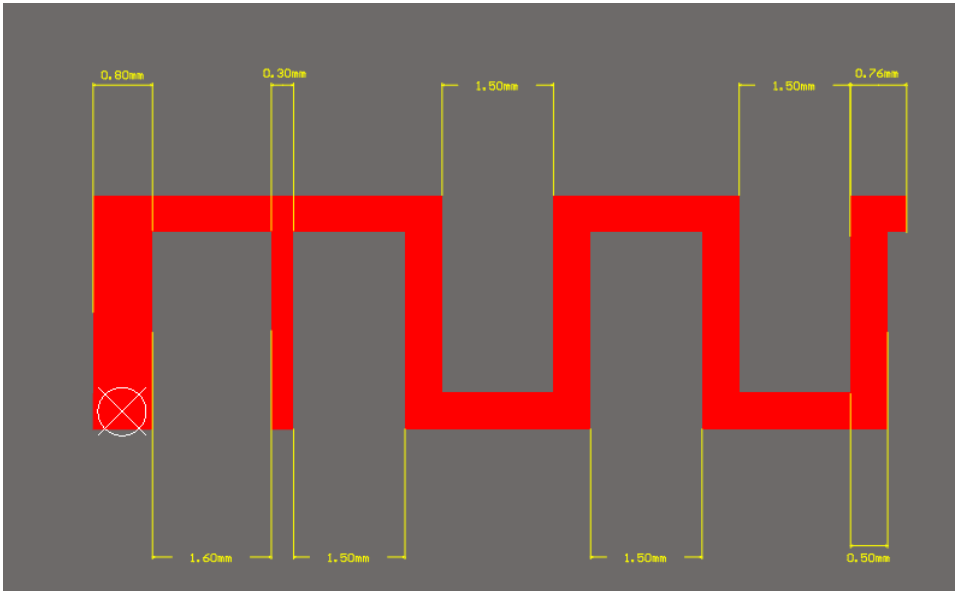
Antenna specification

APPlications

※Bluetooth Home RF

※ISM band 2.4GHz applications

1. Dimensions



2. Specifications

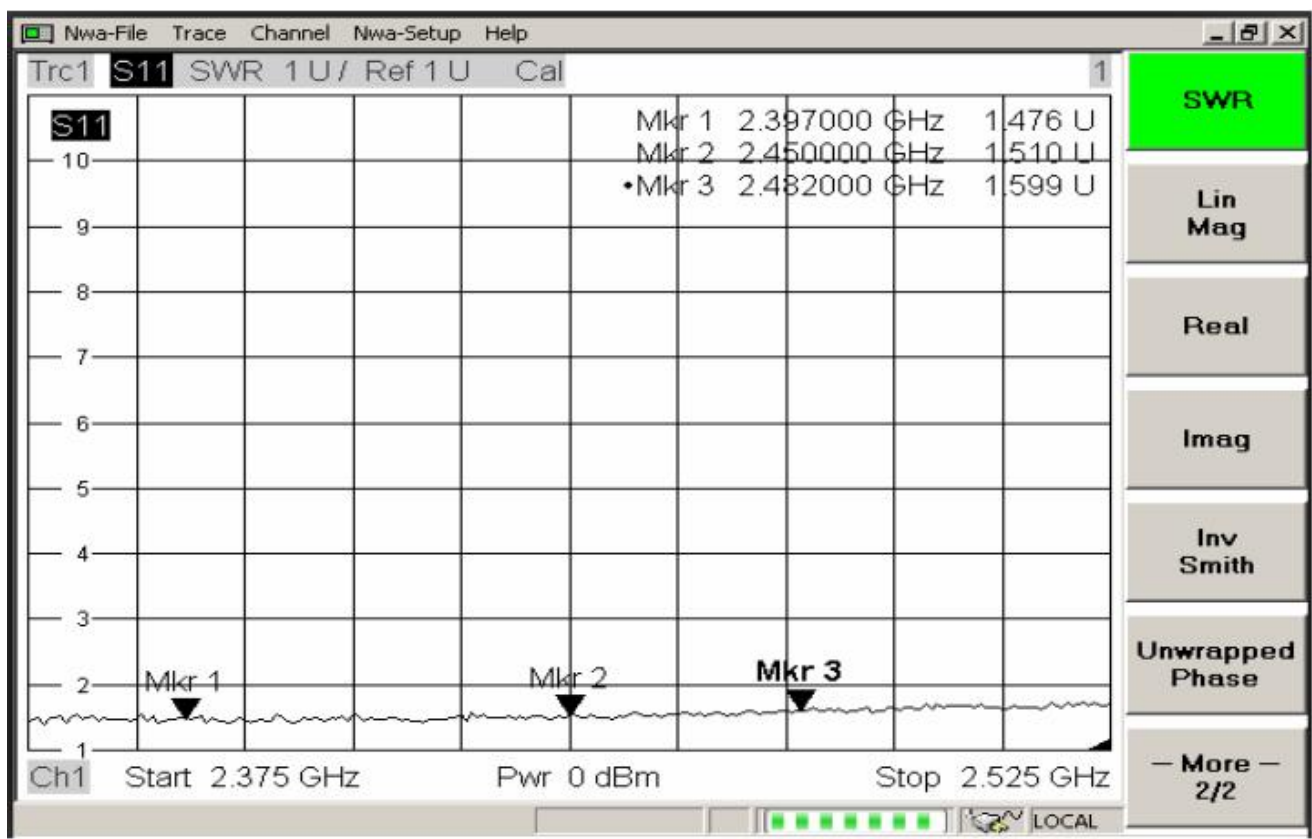
number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402–2480)MHz
3	Gain	0dBi
4	VSWR	≤2.0
5	Antenna type	PCB antenna

6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Modulation mode	GFSK

3. 仪器测试、软件仿真参数

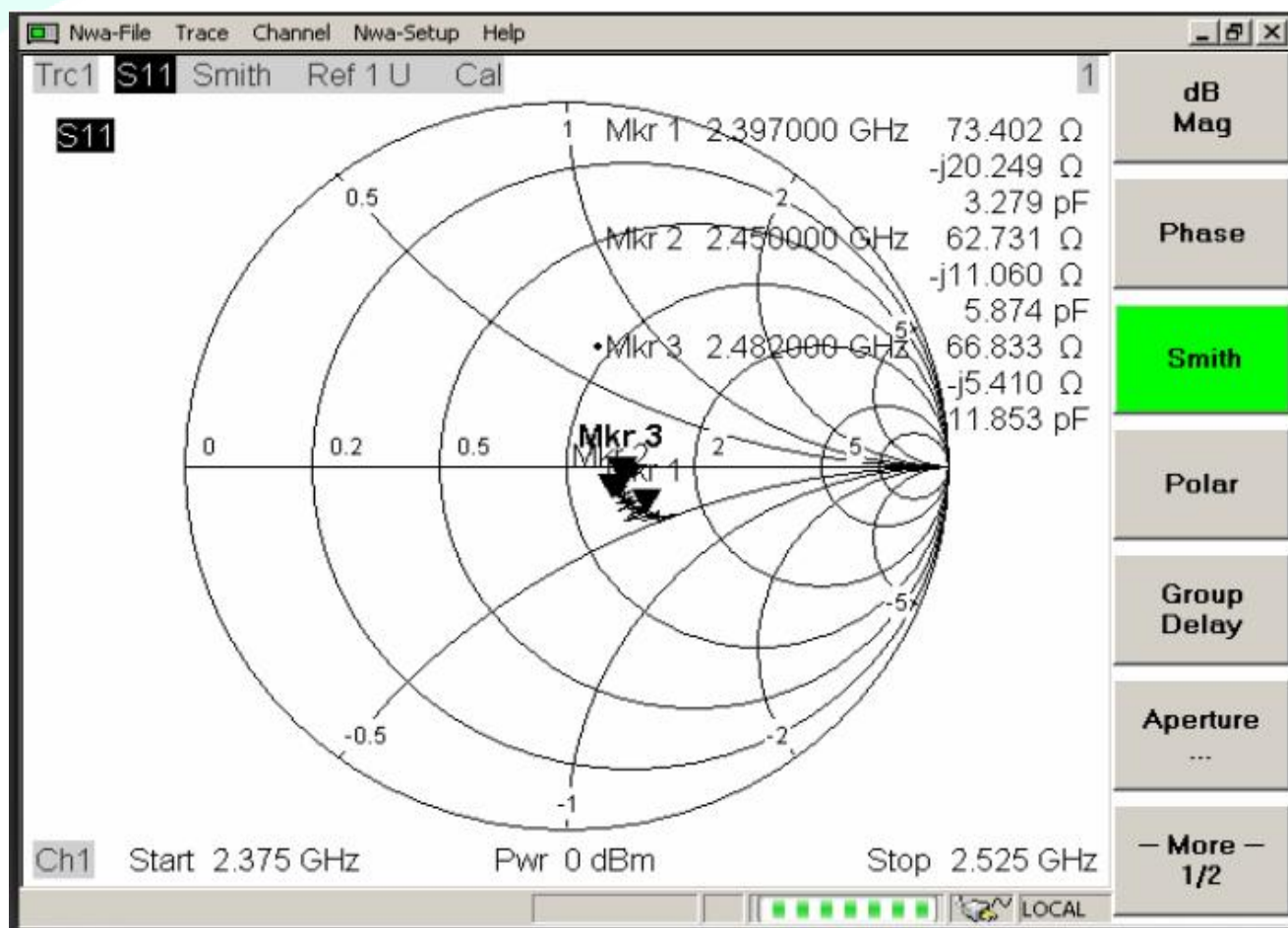
① VSWR

Mkr1: 2397MHz 1.47 Mkr2: 2450MHz 1.51 Mkr3: 2482 MHz 1.59



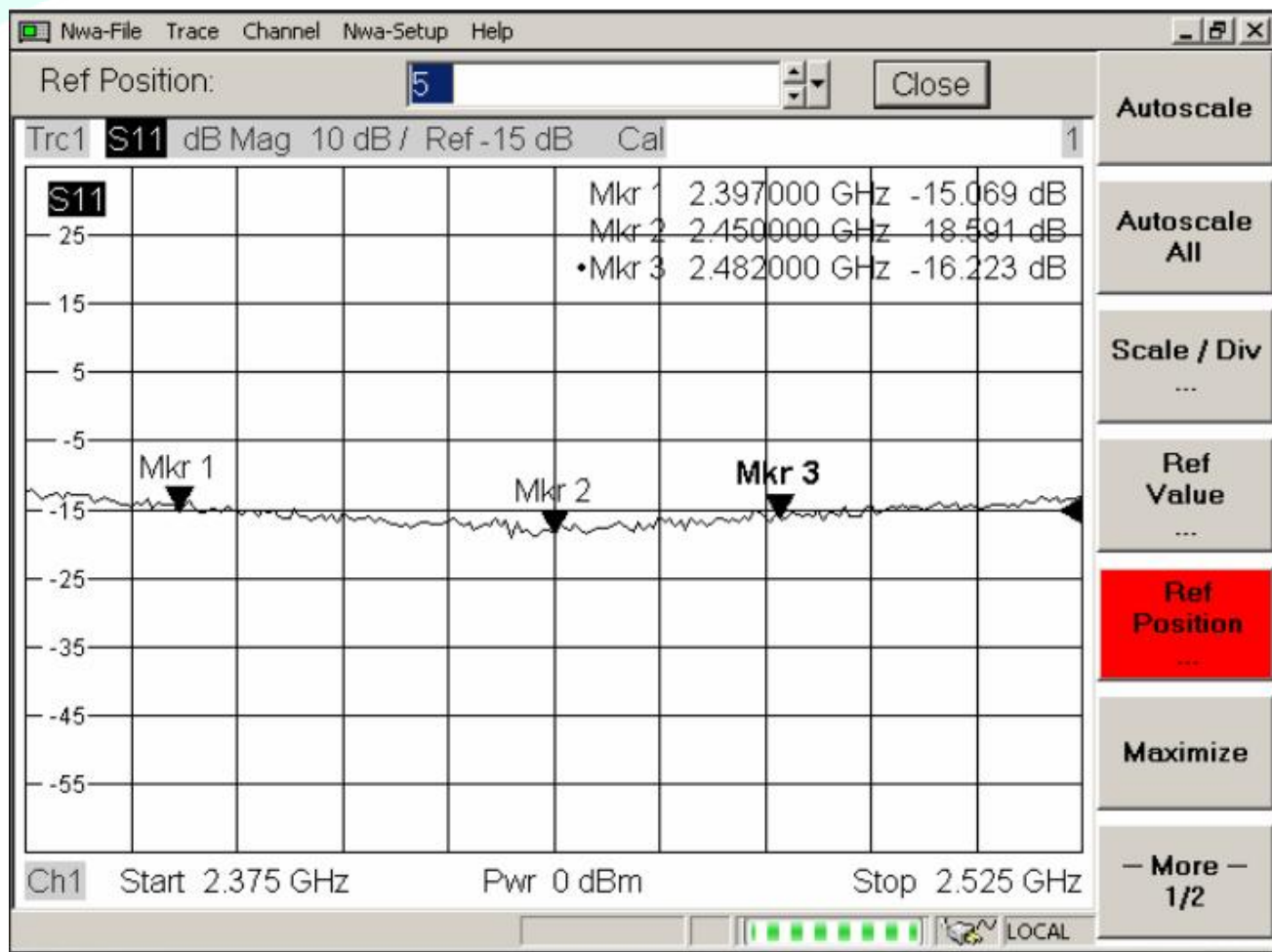
②Smith Char

Mkr1: 2397MHz 73.4 Mkr2: 2450MHz 62.7 Mkr3: 2482MHz 66.8



③Return Loss

Mkr1: 2397MHz -15 Mkr2: 2450MHz -18 Mkr3: 2482 MHz -16

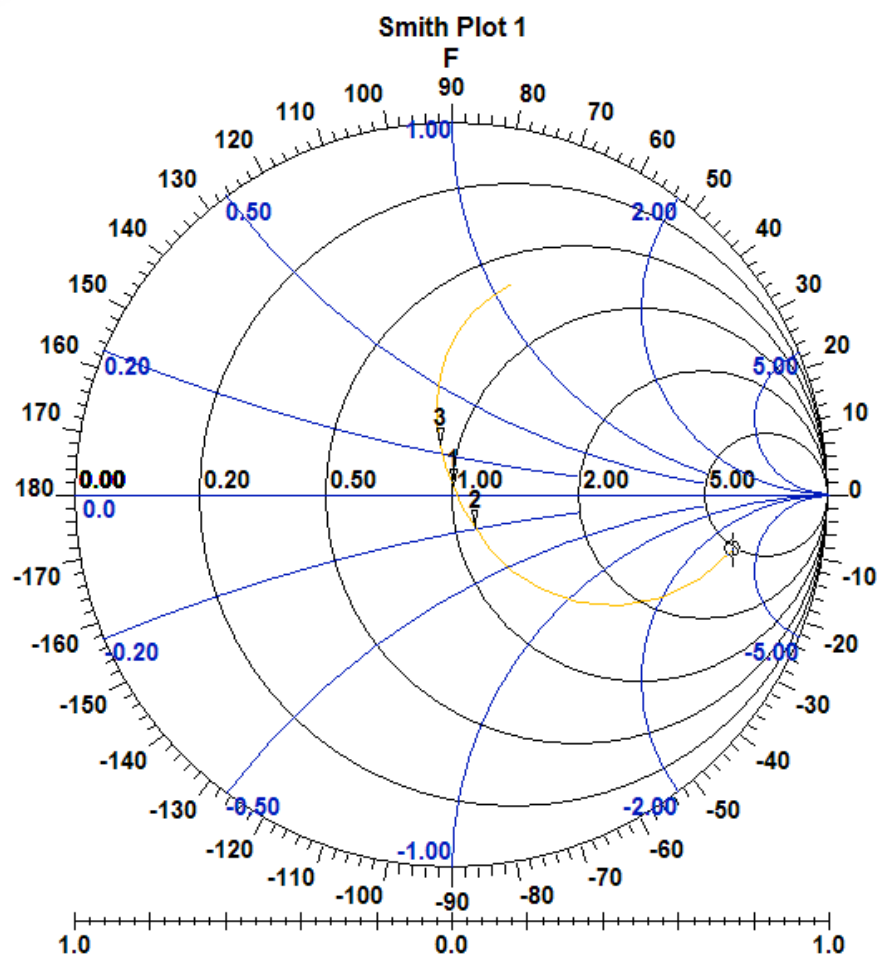


④Smith Char 仿真

Mkr1: 2400MHz 1.234

Mkr2: 2500MHz 1.051

Mkr3: 2600MHz 1.322



VSWR1= 1.051
2.500GHz

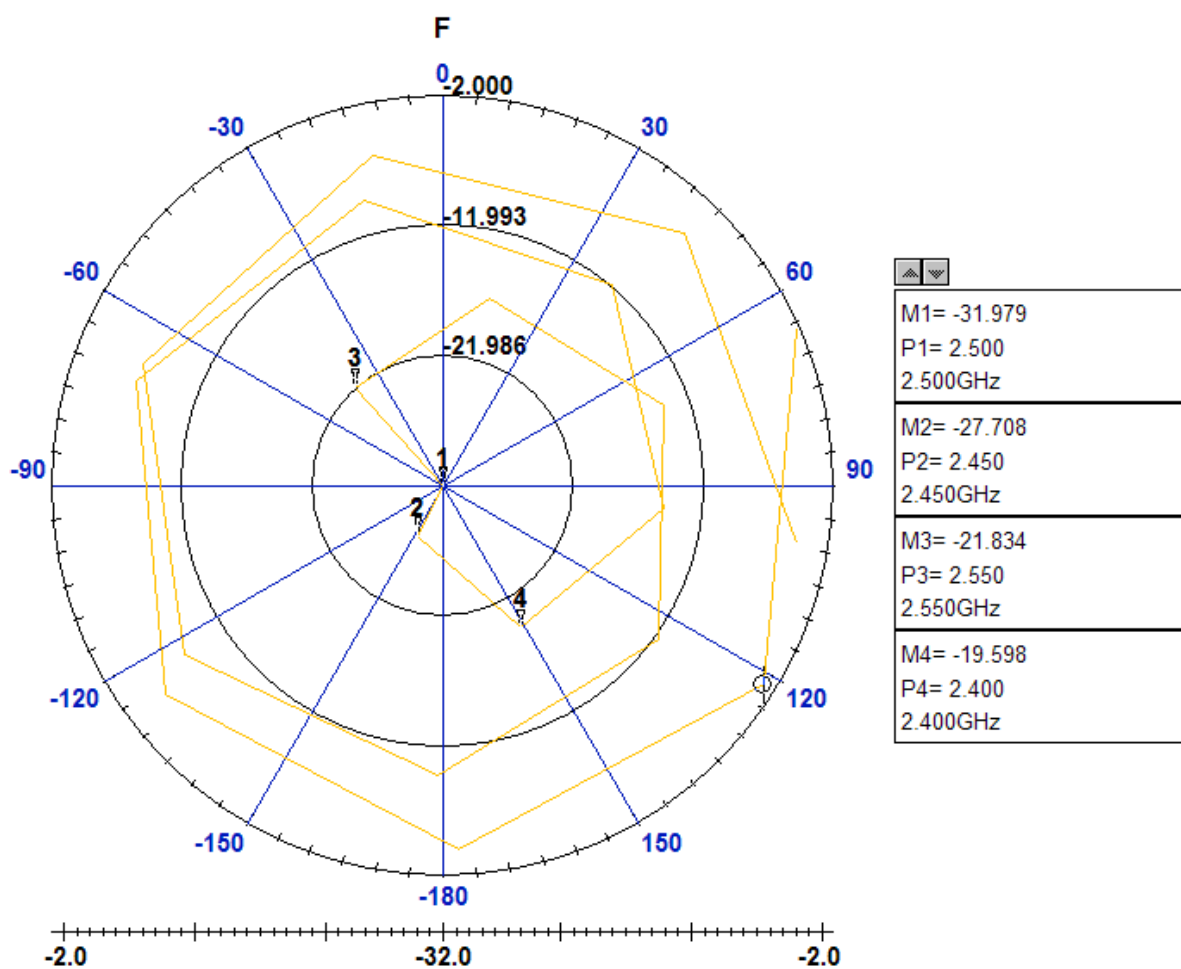
VSWR2= 1.234
2.400GHz

VSWR3= 1.322
2.600GHz

⑤Return Loss 仿真

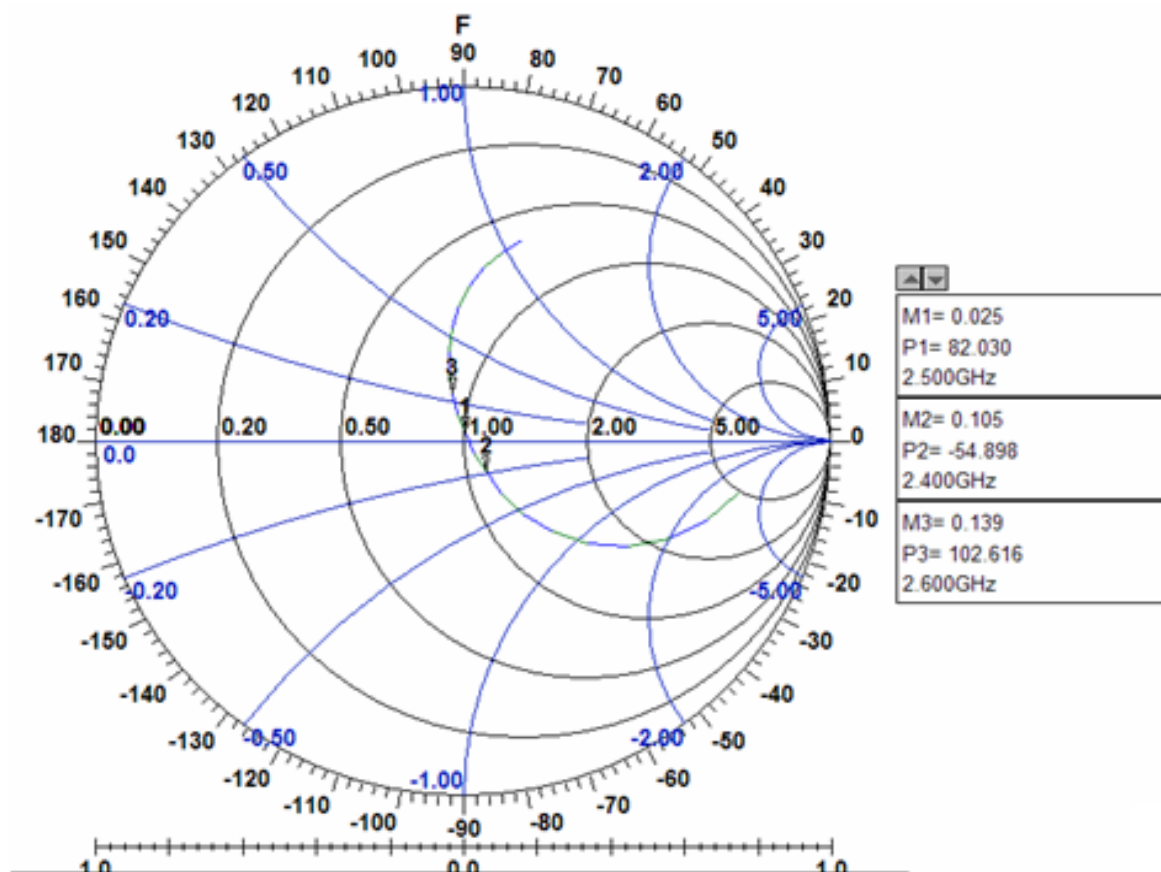
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



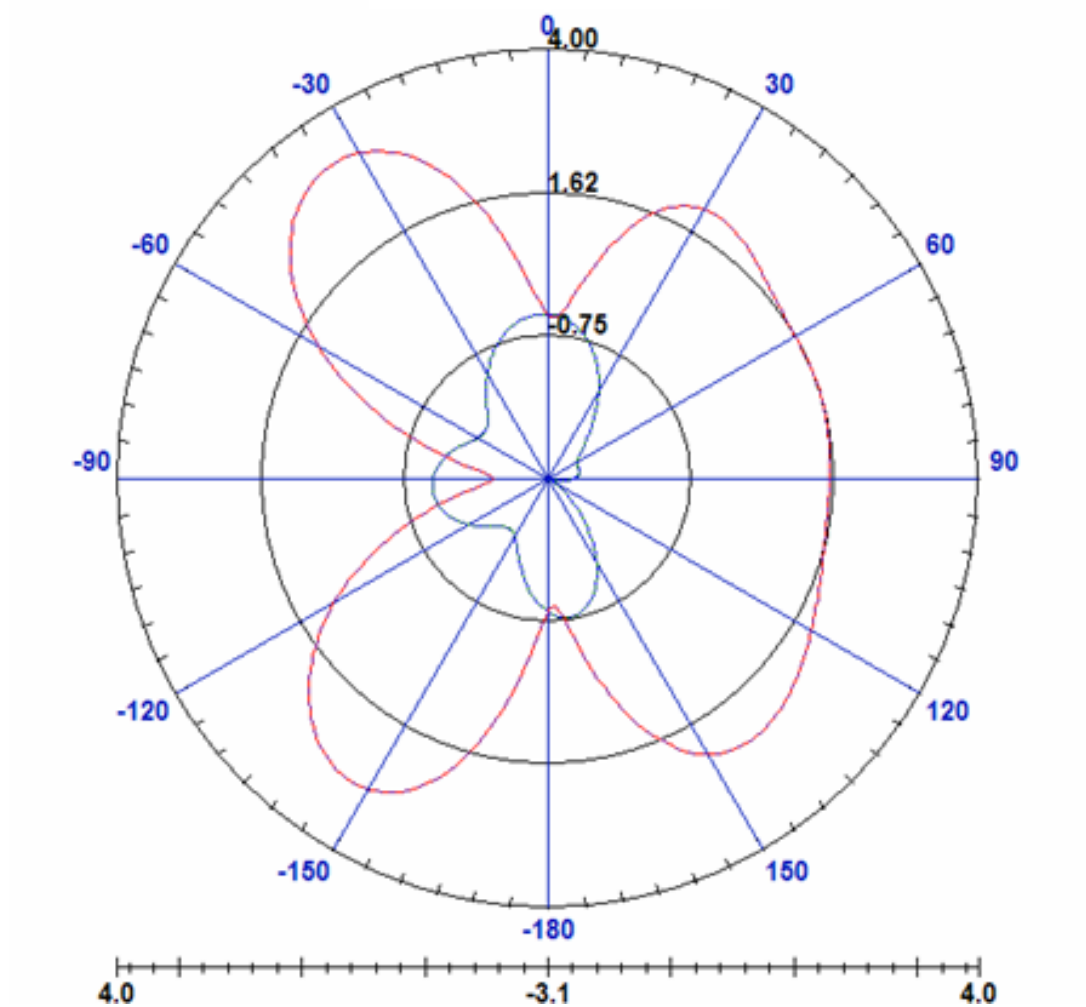
⑥Phase 仿真

Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6

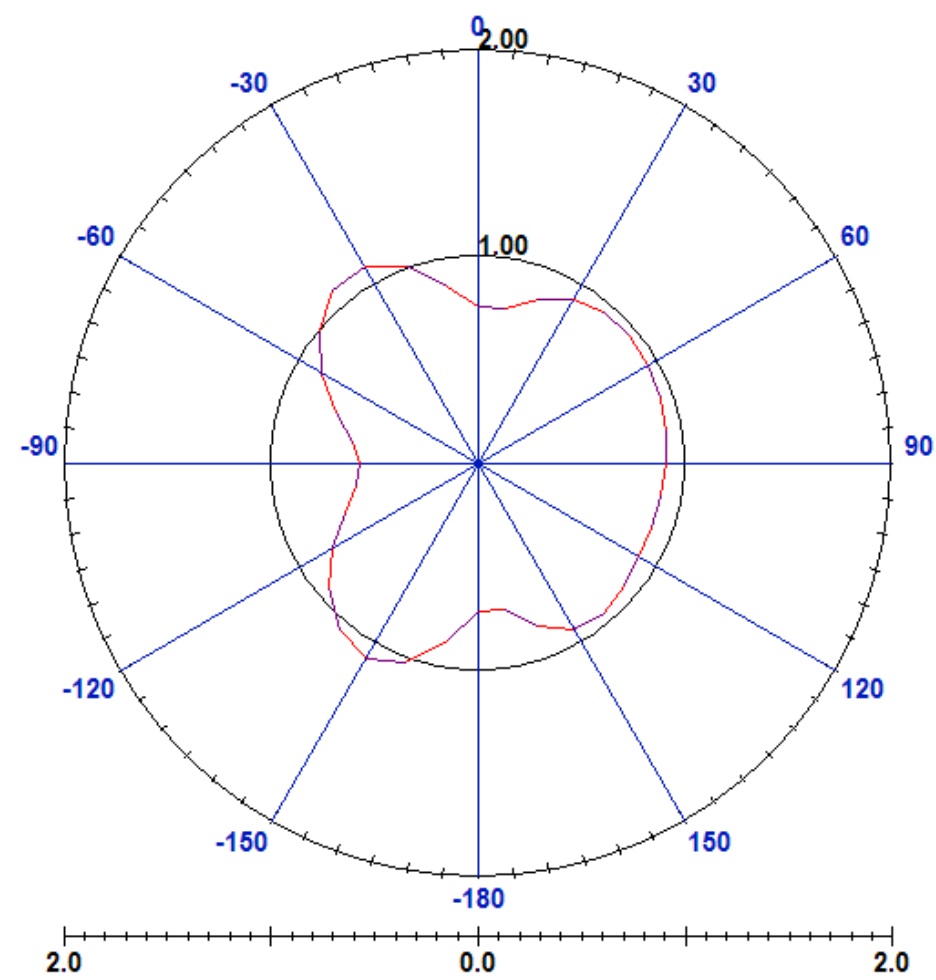


4. Radiation Patterns

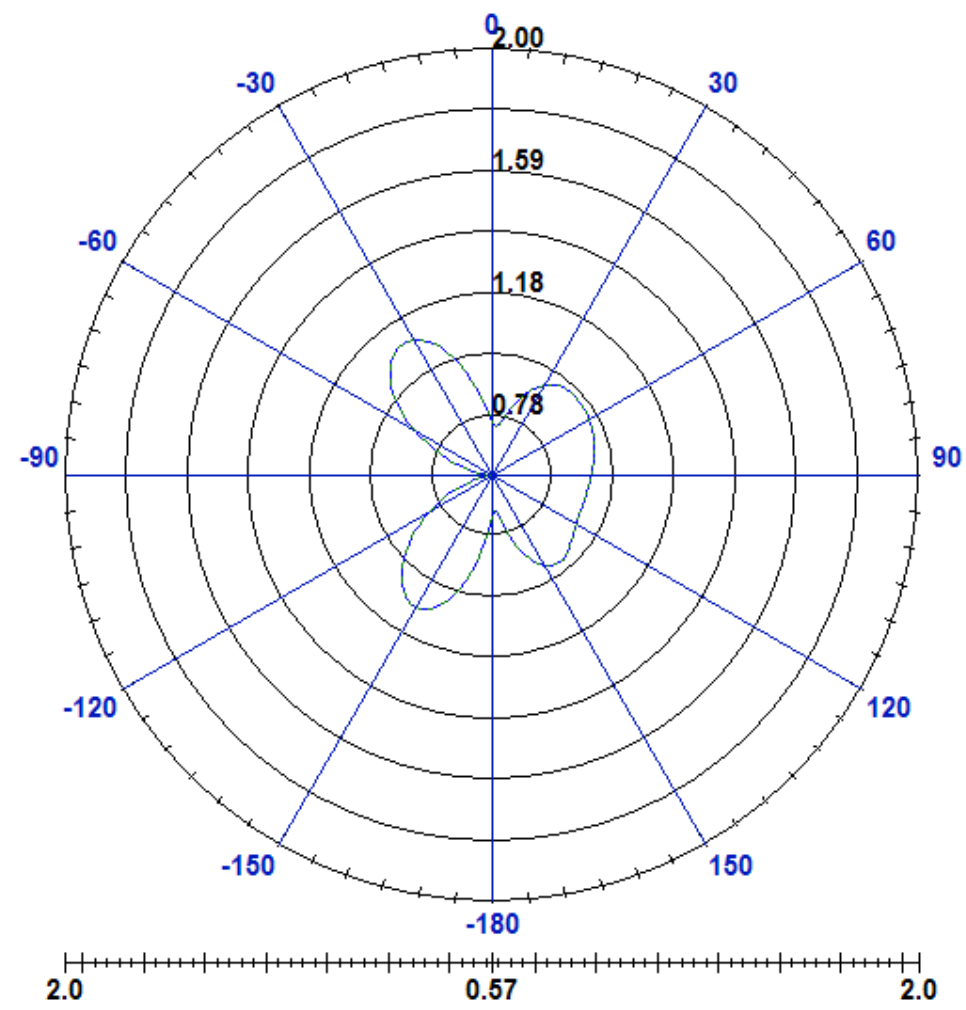
XY-plane



XZ-plane



YZ-plane

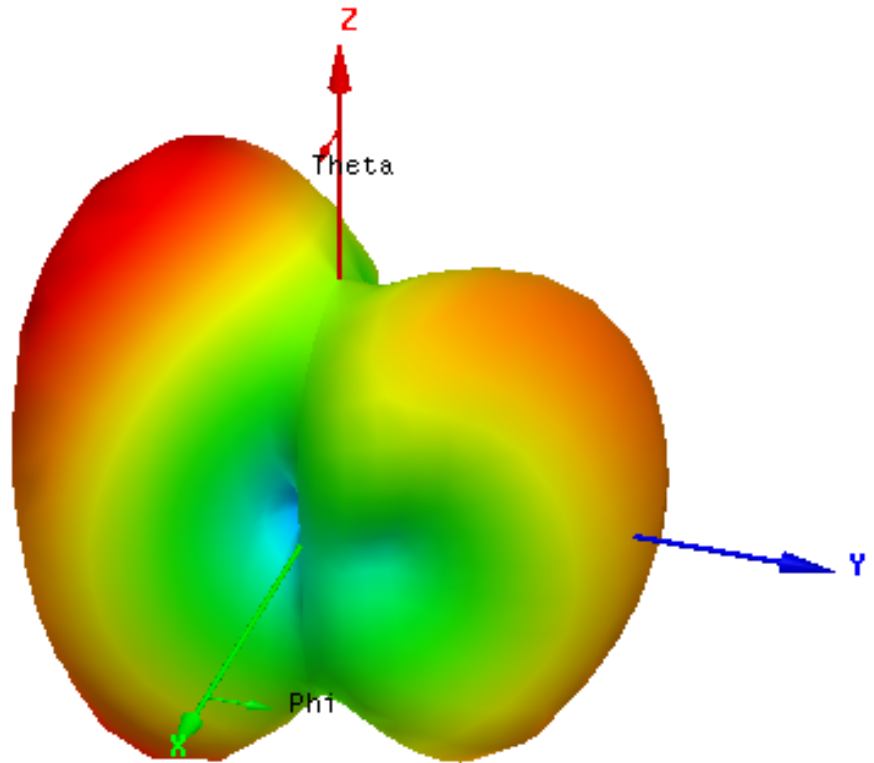


3D 辐射场型图

rETotal[V]



1.1041e+000
1.0490e+000
9.9383e-001
9.3871e-001
8.8358e-001
8.2845e-001
7.7333e-001
7.1820e-001
6.6307e-001
6.0794e-001
5.5282e-001
4.9769e-001
4.4256e-001
3.8744e-001
3.3231e-001
2.7718e-001
2.2206e-001



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