

Antenna specification

Manufacturer : Targetever (GuangDong) Technology Co.,Ltd.

Address: Building 10, Floors 2-11th and Building 11, Floors 1-11th, LangYuan, 16 Chenghai Avenue,
Chenjiang Street, ZhongKai High-tech Zone, HuiZhou

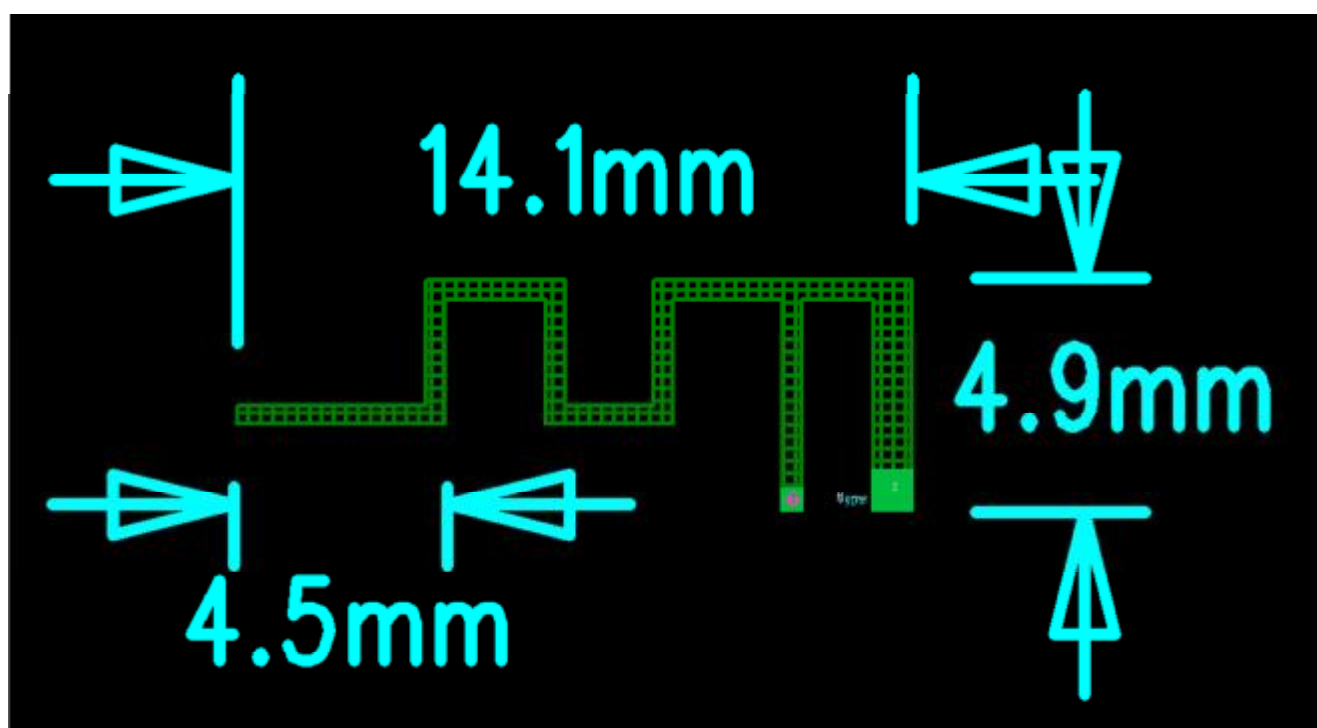
Model: ISM 2.4G

APPLications

※Bluetooth Home RF

※ISM band 2.4GHz applications

1.Dimensions



2.Specifications

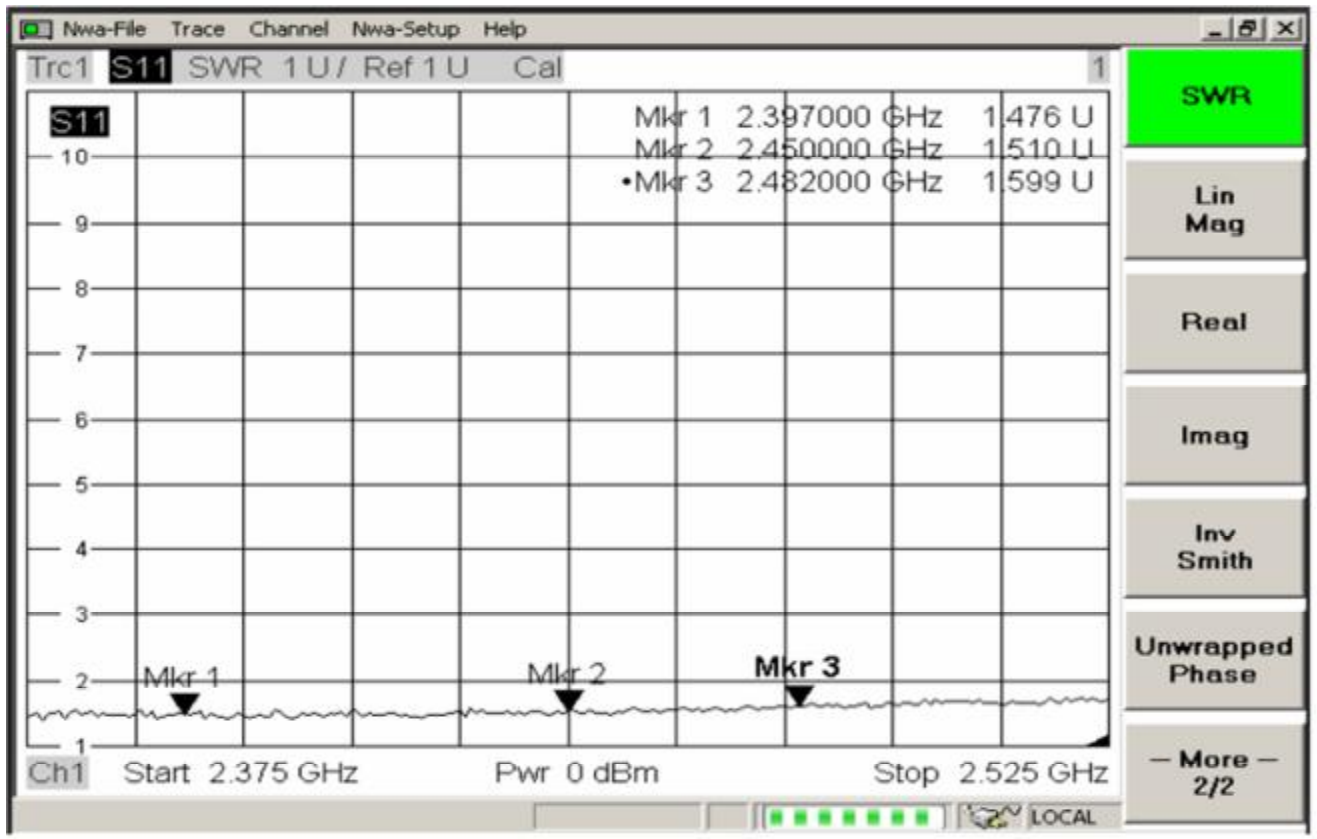
number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	3.75dBi
4	VSWR	≤ 2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Modulation mode	GFSK

Fred(MHz)	Effi(dB)	Cain(dBi)
2400	-4.39	2.24
2410	-4.32	2.34
2420	-4.31	2.44
2430	-3.85	2.89
2440	-3.75	3.03
2450	-3.71	3.23
2460	-3.32	3.65
2470	-3.48	3.61
2480	-3.48	3.62
2490	-3.23	3.75
2500	-3.11	3.61

3. Instrument testing, software simulation parameters

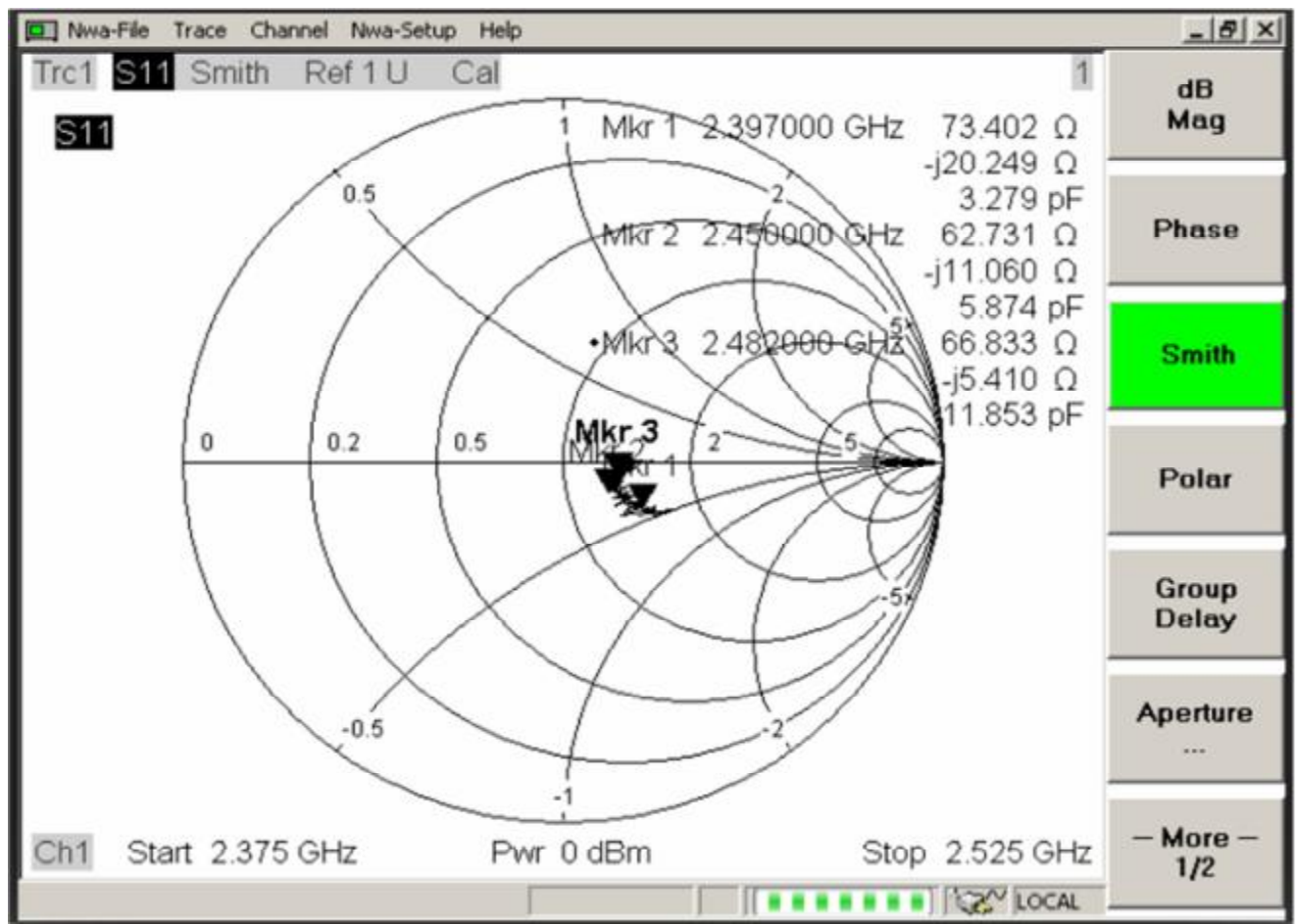
① VSWR

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



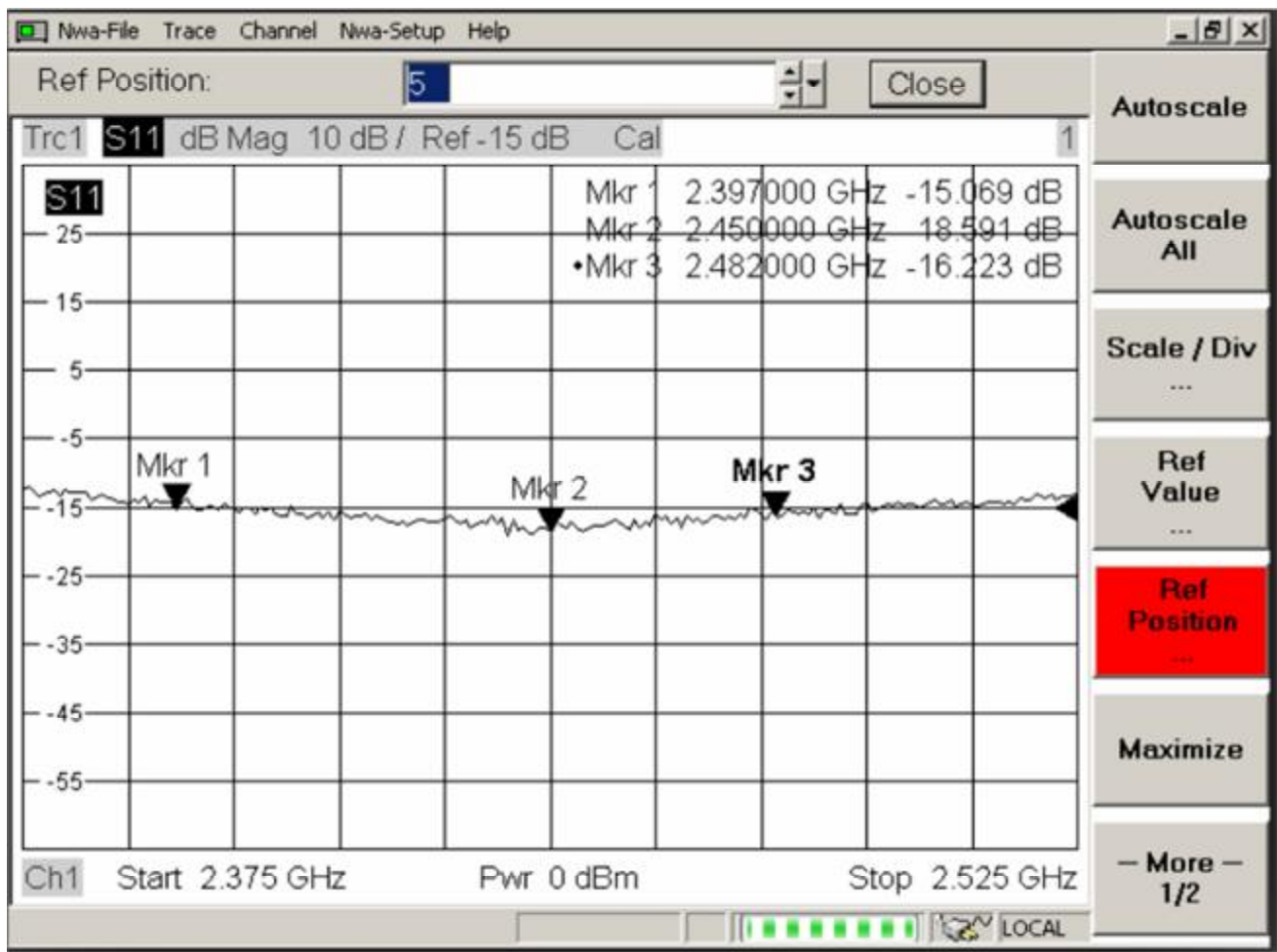
②Smith Char

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



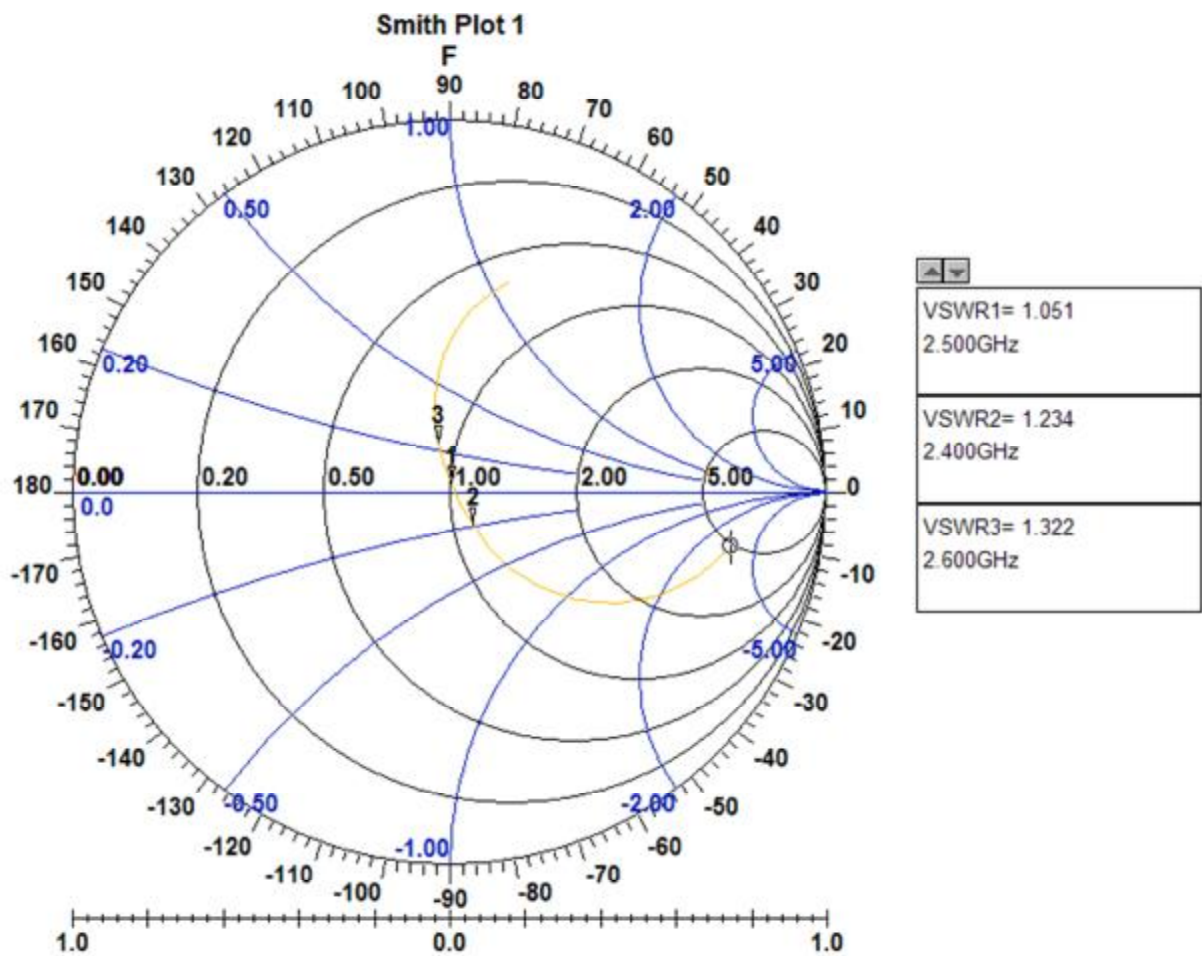
③Return Loss

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



④Smith Char The simulation

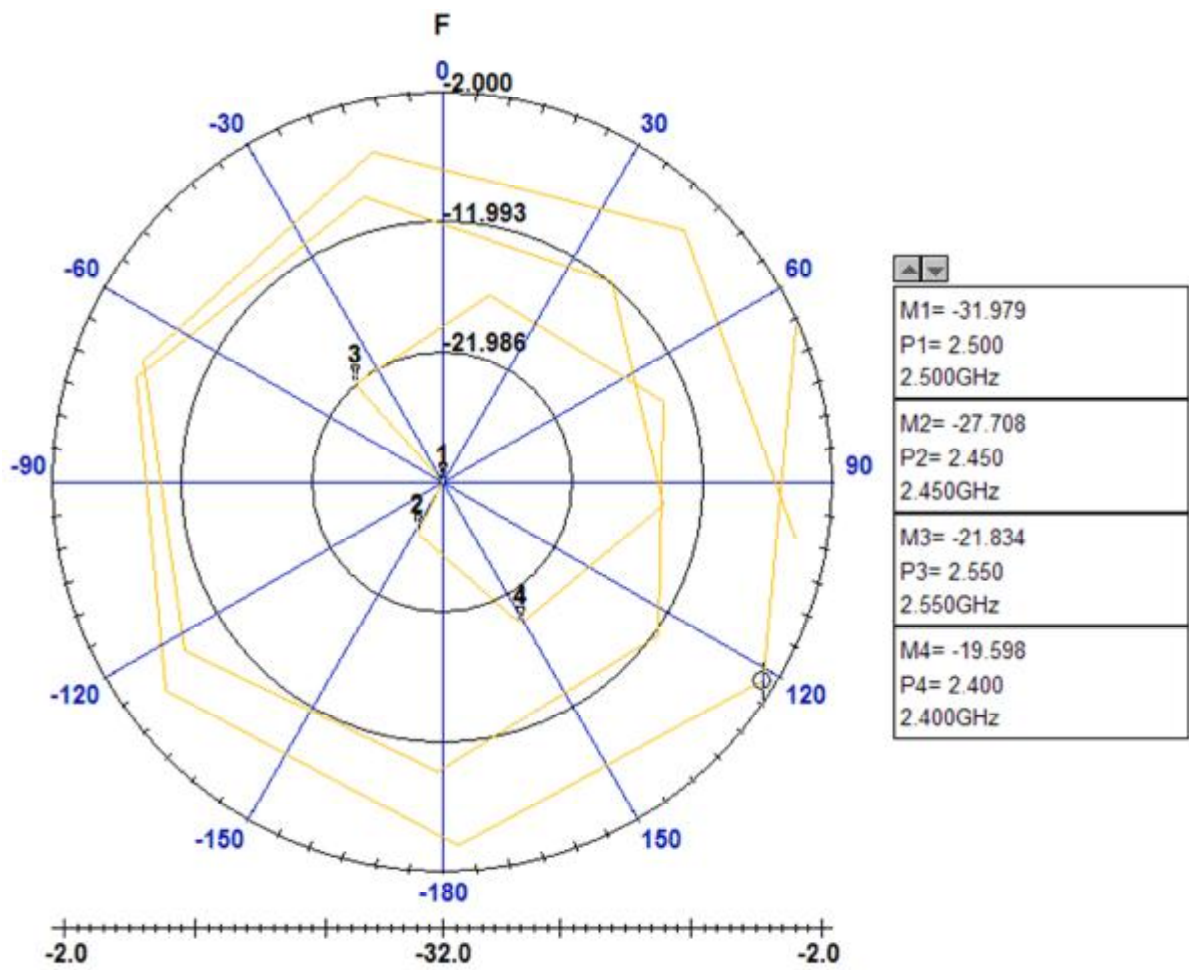
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051 Mkr3: 2600MHz 1.322



⑤Return Loss The simulation

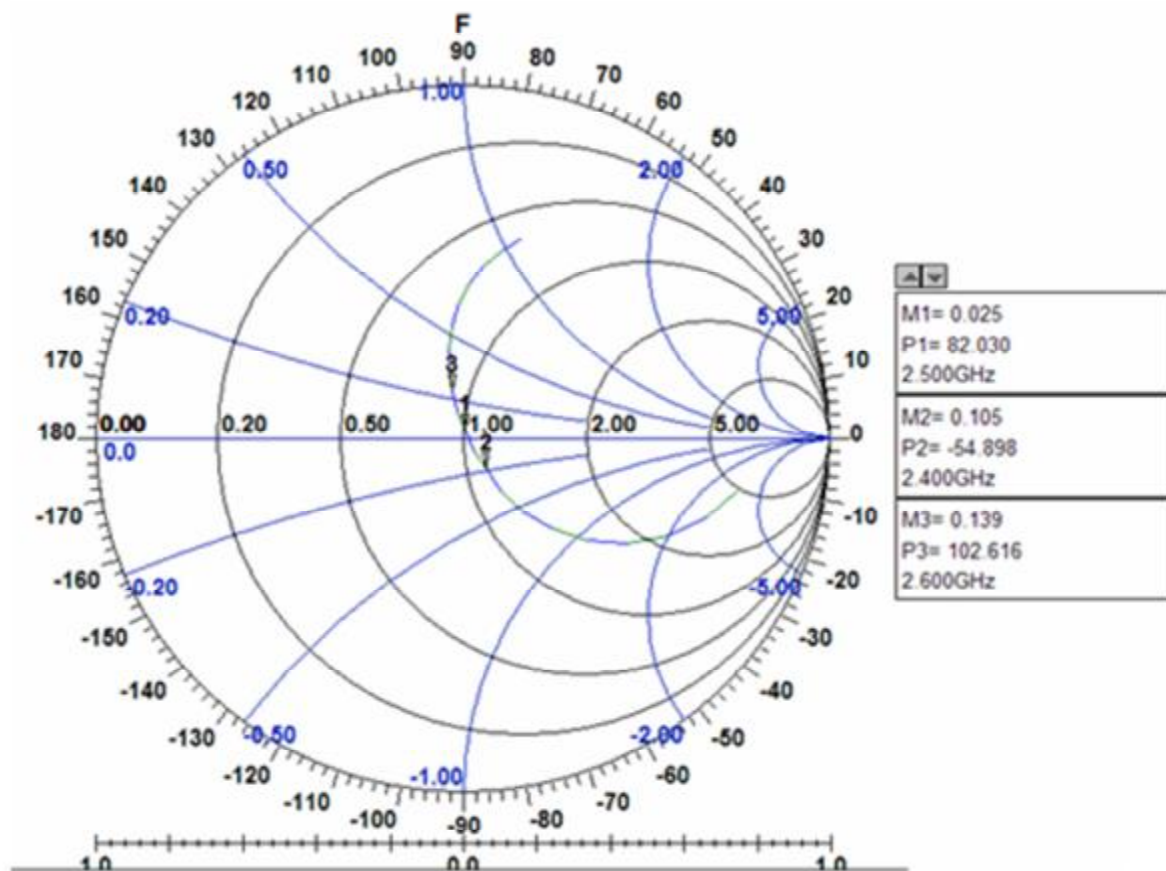
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



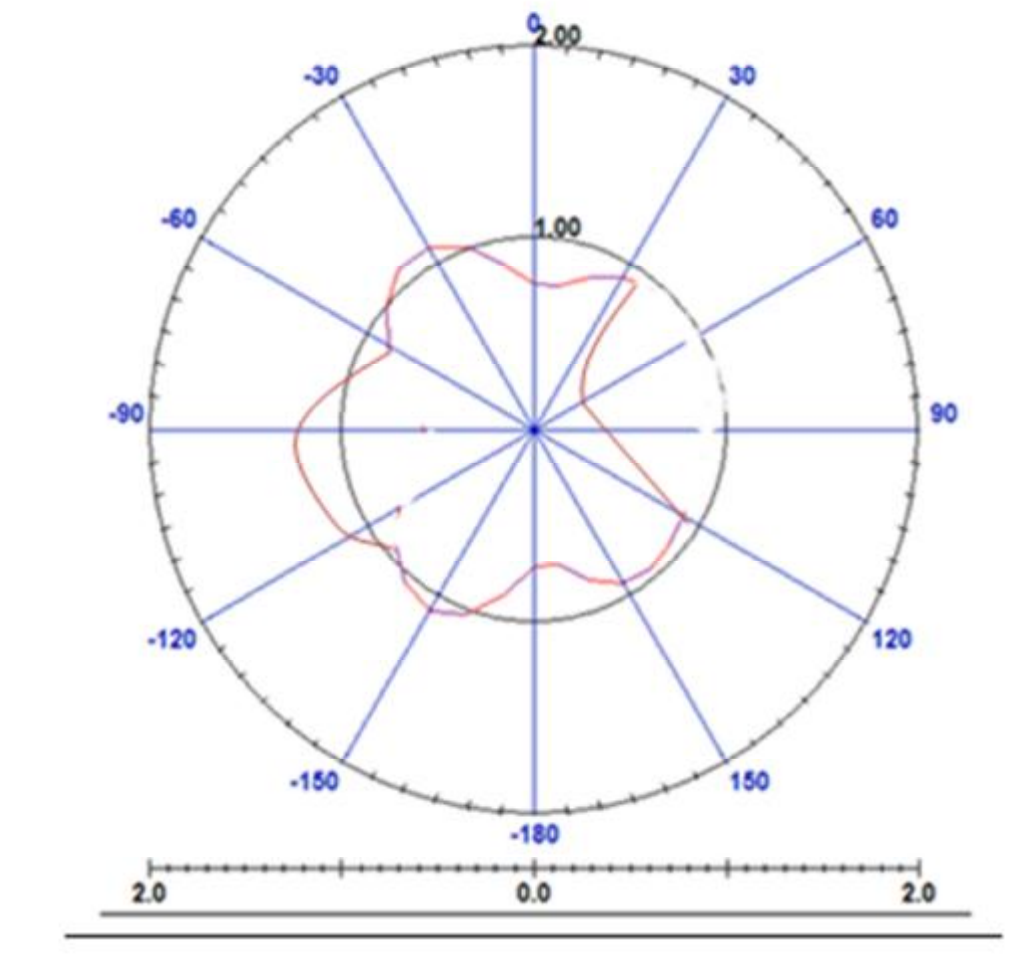
⑥Phase The simulation

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

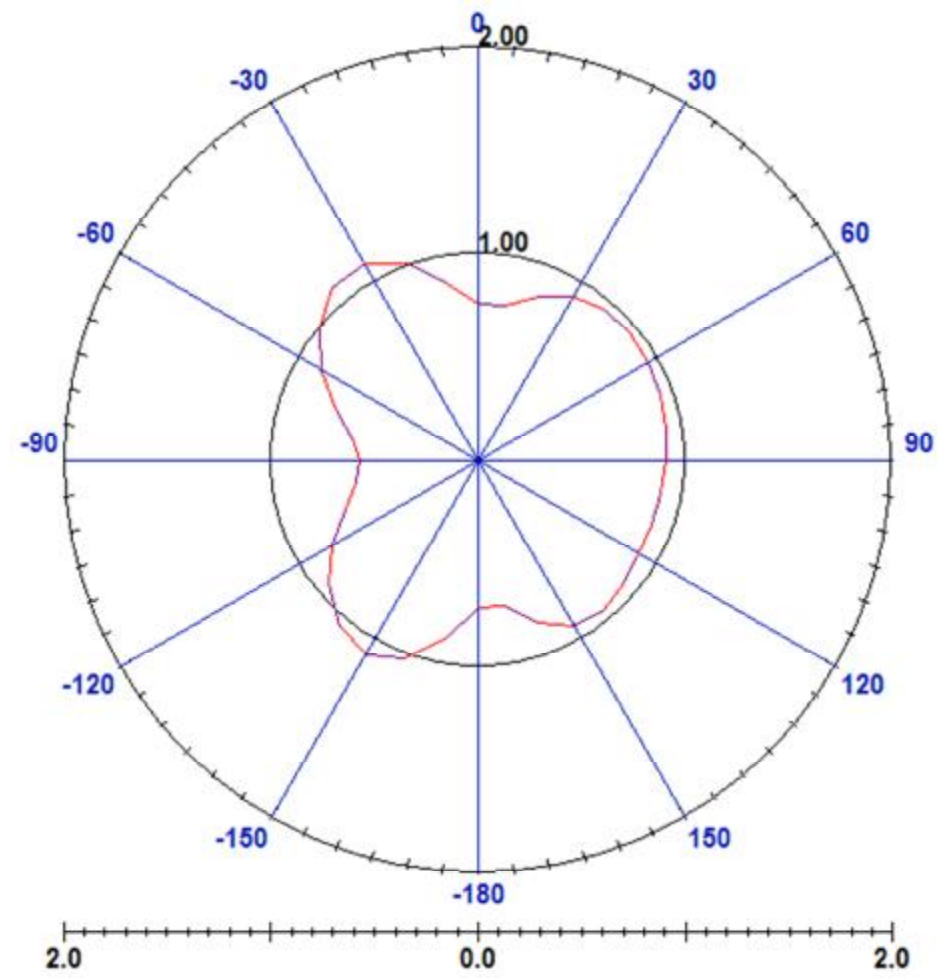


4. Radiation Patterns

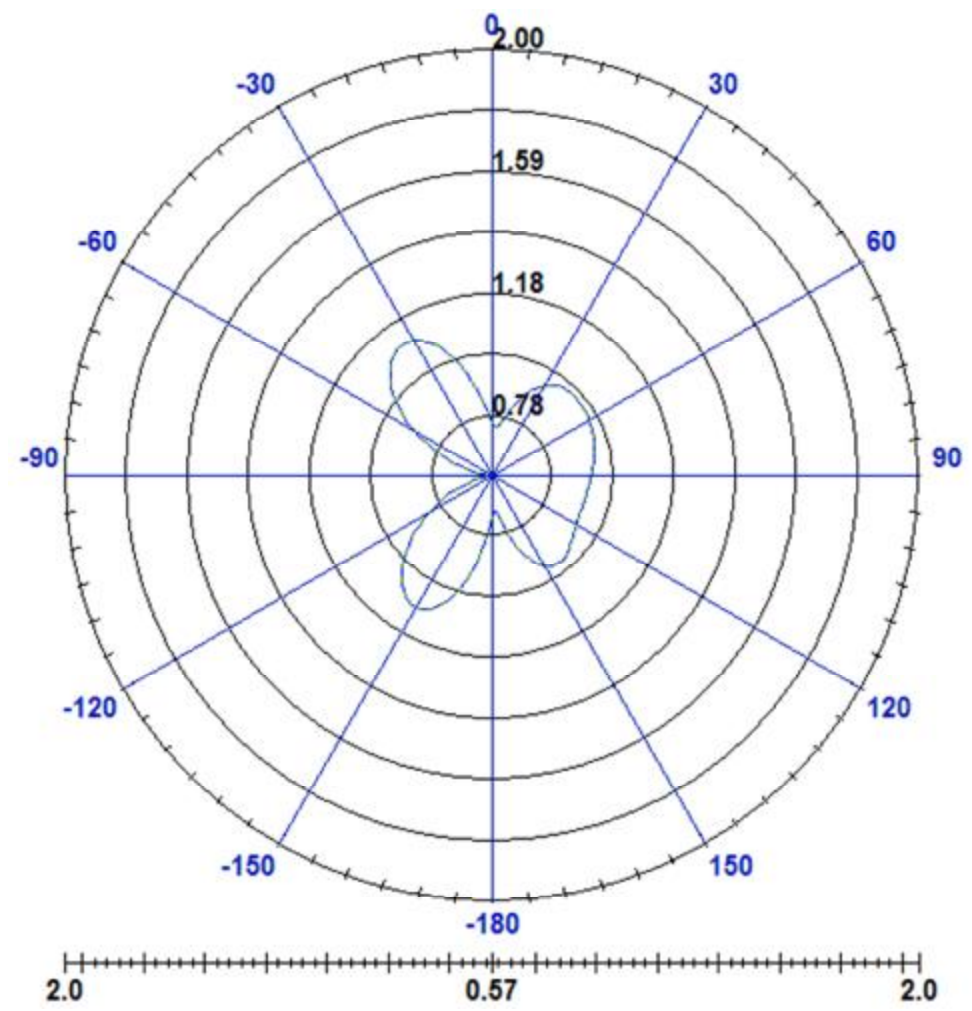
XY-plane



XZ-plane



YZ-plane



3D Radiation field type

