

Antenna specifications

Manufacturer: Shenzhen Ajazz Tongchuang Electronic Technology Co., Ltd.

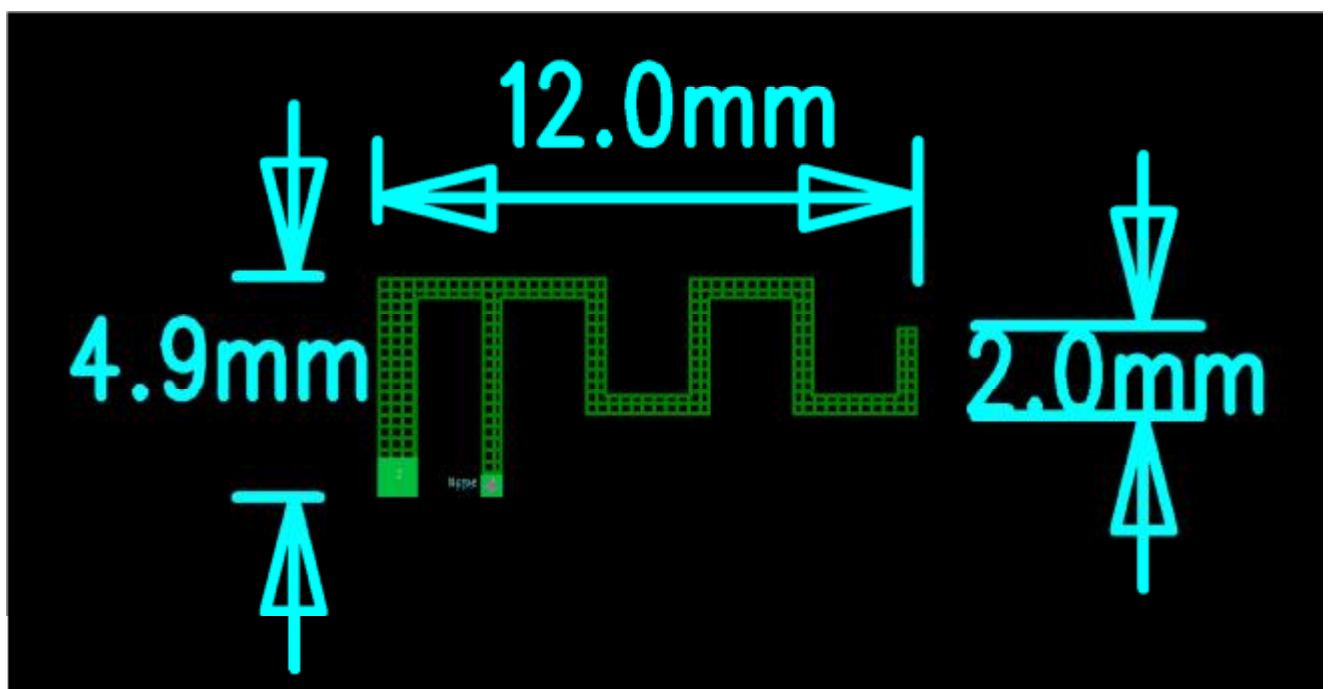
Address: 2104-1, Block A, CIMC Low Orbit Satellite Internet of Things Industrial Park, Dongkeng Community, Fenghuang Street, Guangming District, Shenzhen

APPLications

※Bluetooth Home RF

※ISM band 2.4GHz applications

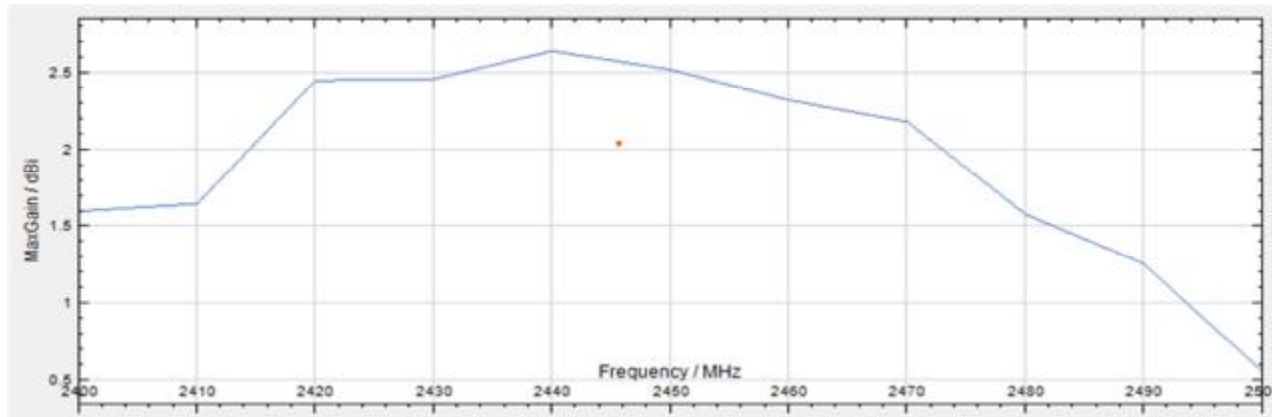
1.Dimensions

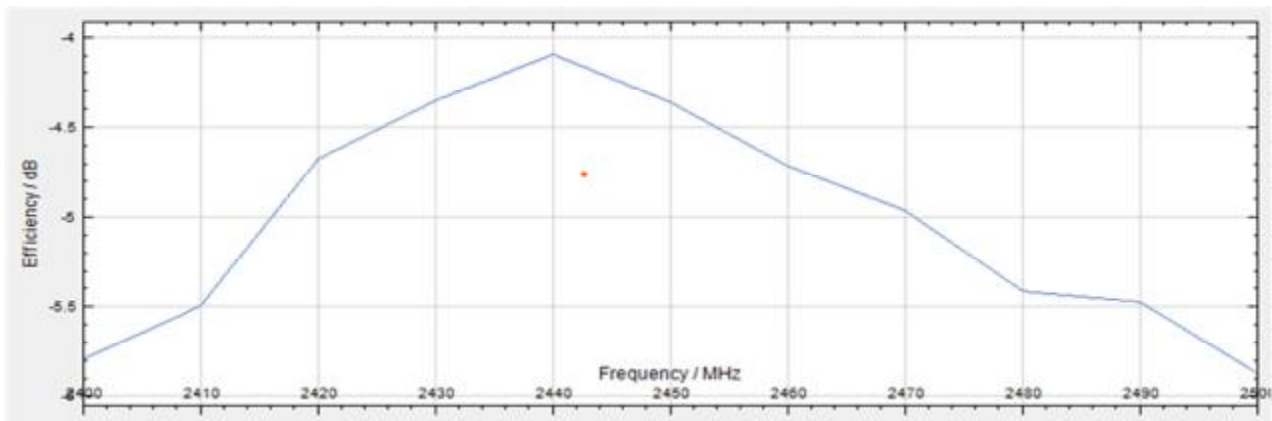


2.Specifications

number	Item	Specifications
1	Working Central Frequency	2450 MHz
2	Band Width	(2400-2500)MHz
3	Gain	2.64dBi
4	VSWR	≤ 2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Antenna model	GP100
8	Modulation mode	GFSK

Fred (MHz)	Effi (dB)	Cain(dBi)
2400	-5.79	1.6
2410	-5.49	1.65
2420	-4.67	2.45
2430	-4.35	2.46
2440	-4.09	2.64
2450	-4.36	2.52
2460	-4.71	2.32
2470	-4.96	2.18
2480	-5.41	1.58
2490	-5.47	1.26
2500	-5.87	0.56

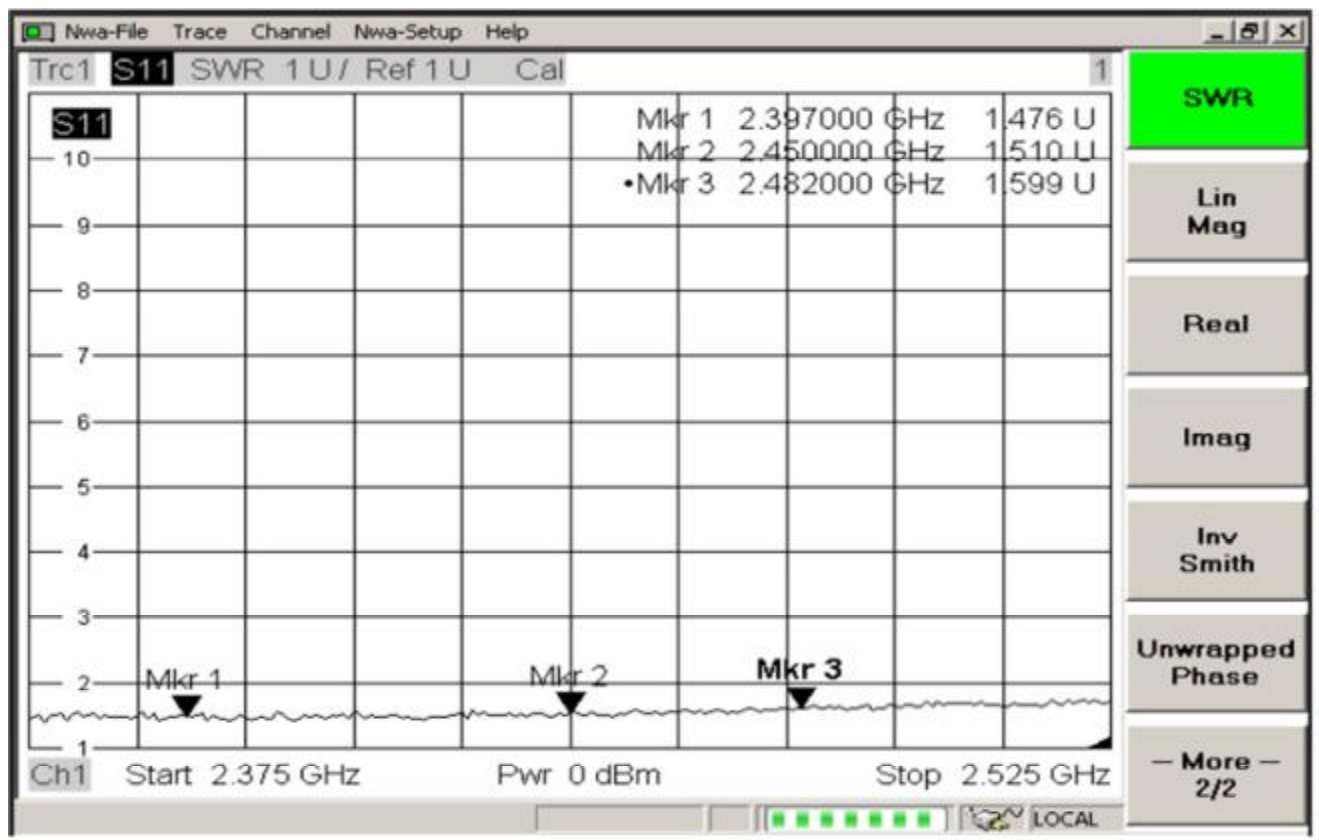




3. Instrument testing, software simulation parameters

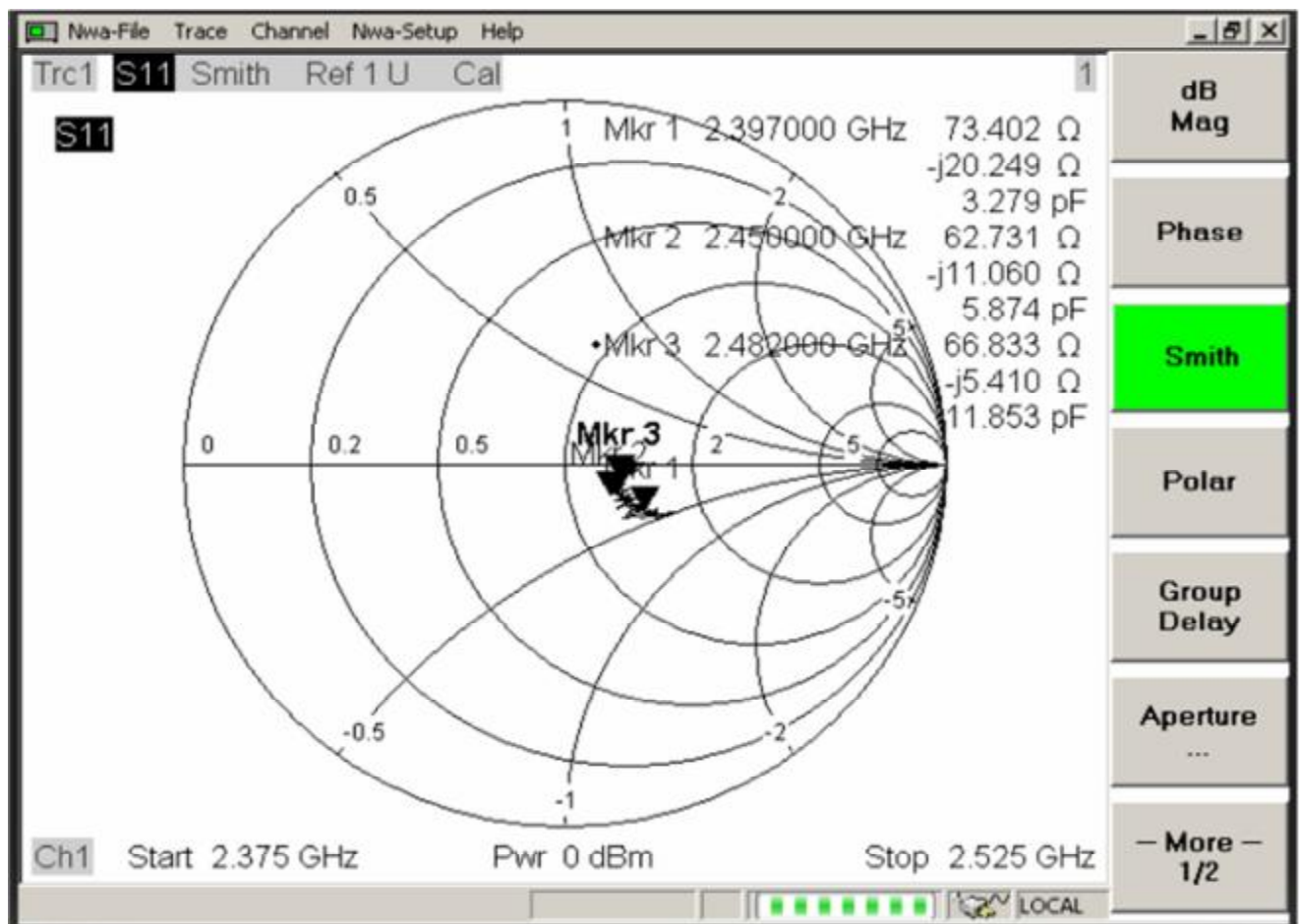
① VSWR

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



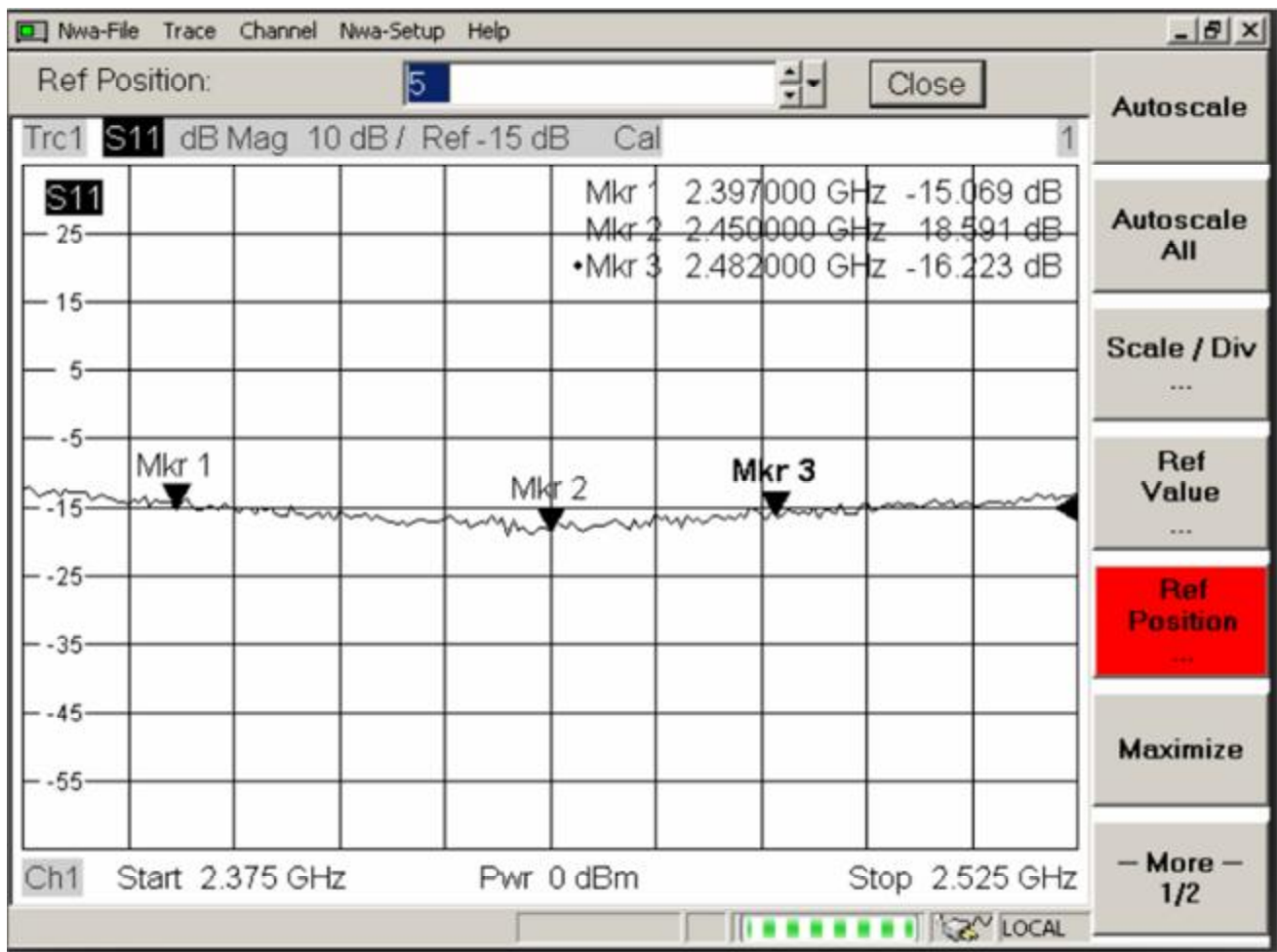
②Smith Char

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



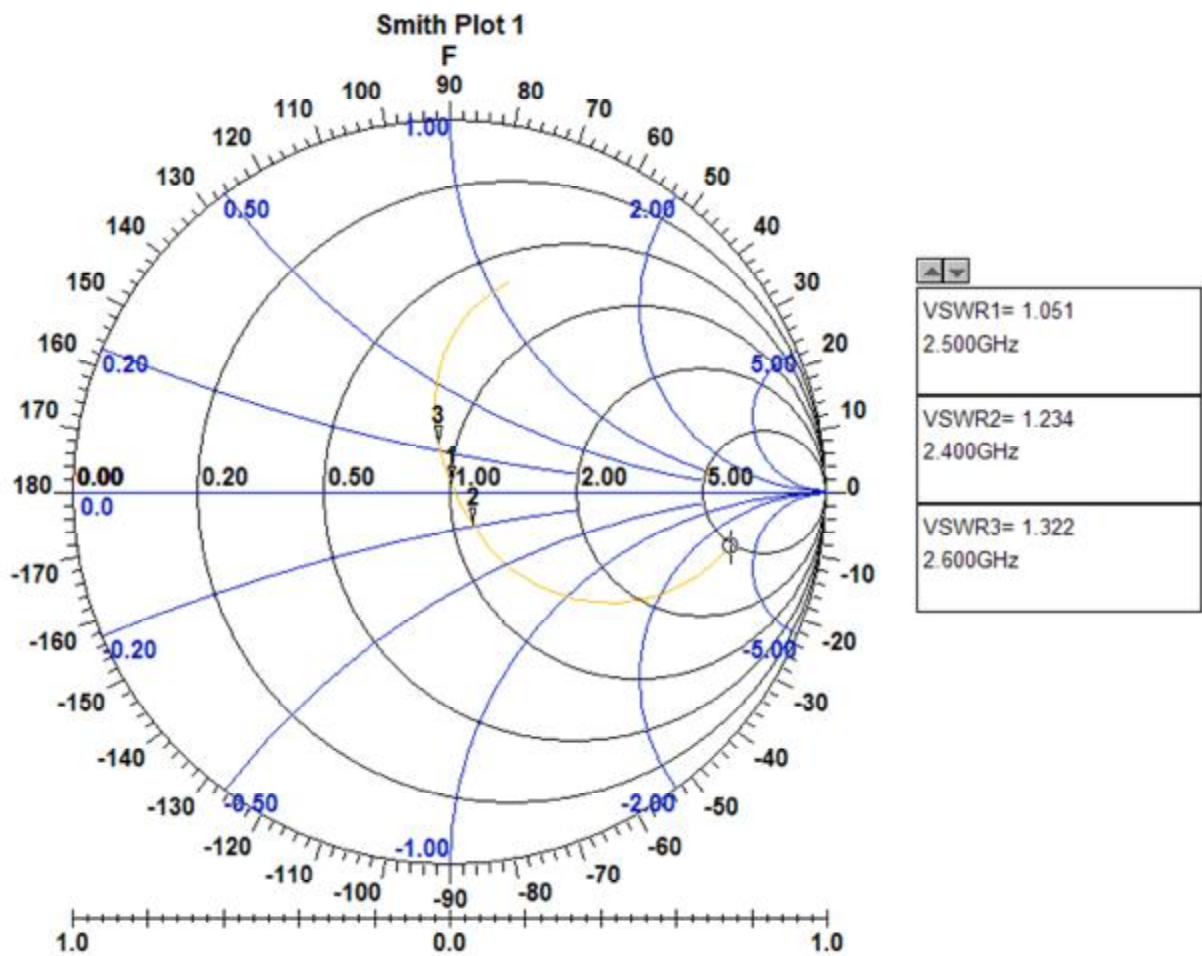
③Return Loss

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



④Smith Char The simulation

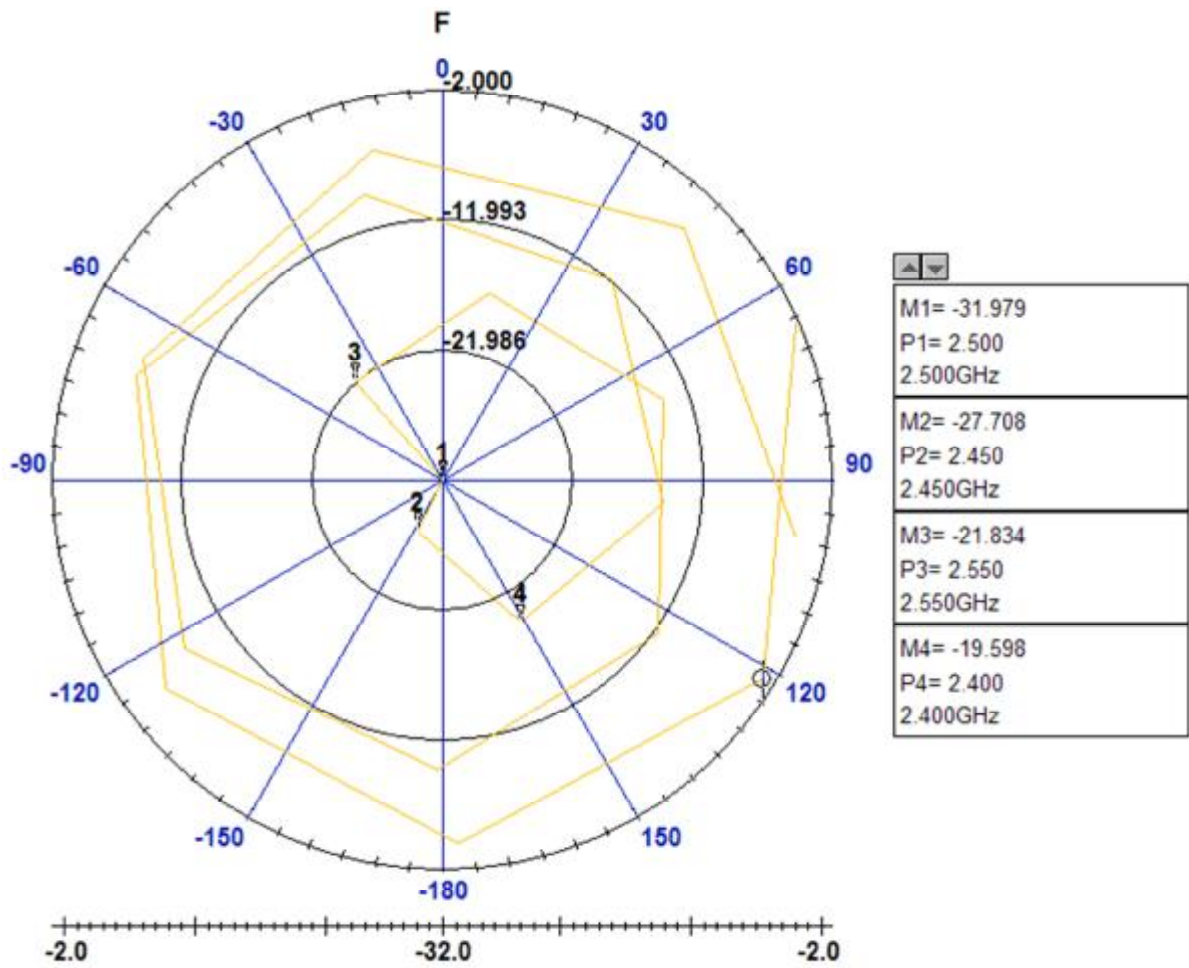
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051 Mkr3: 2600MHz 1.322



⑤Return Loss The simulation

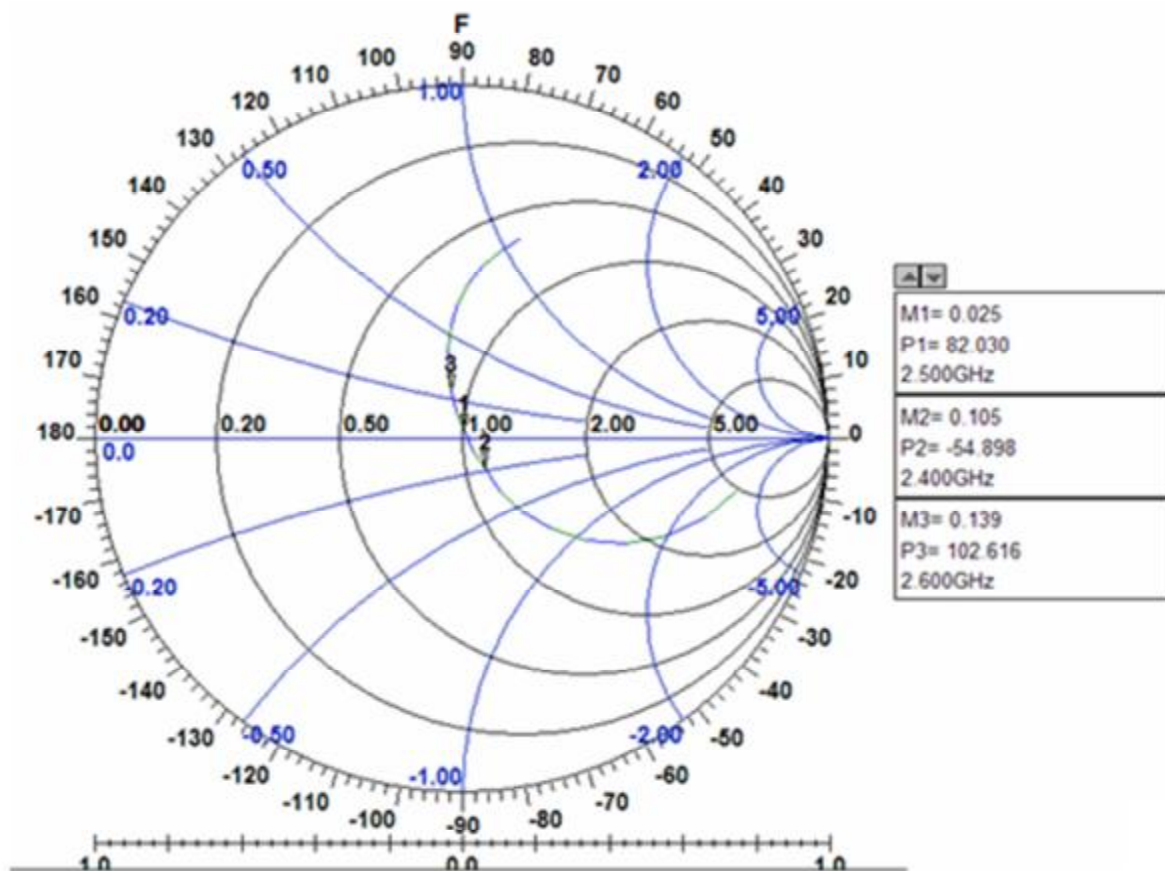
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



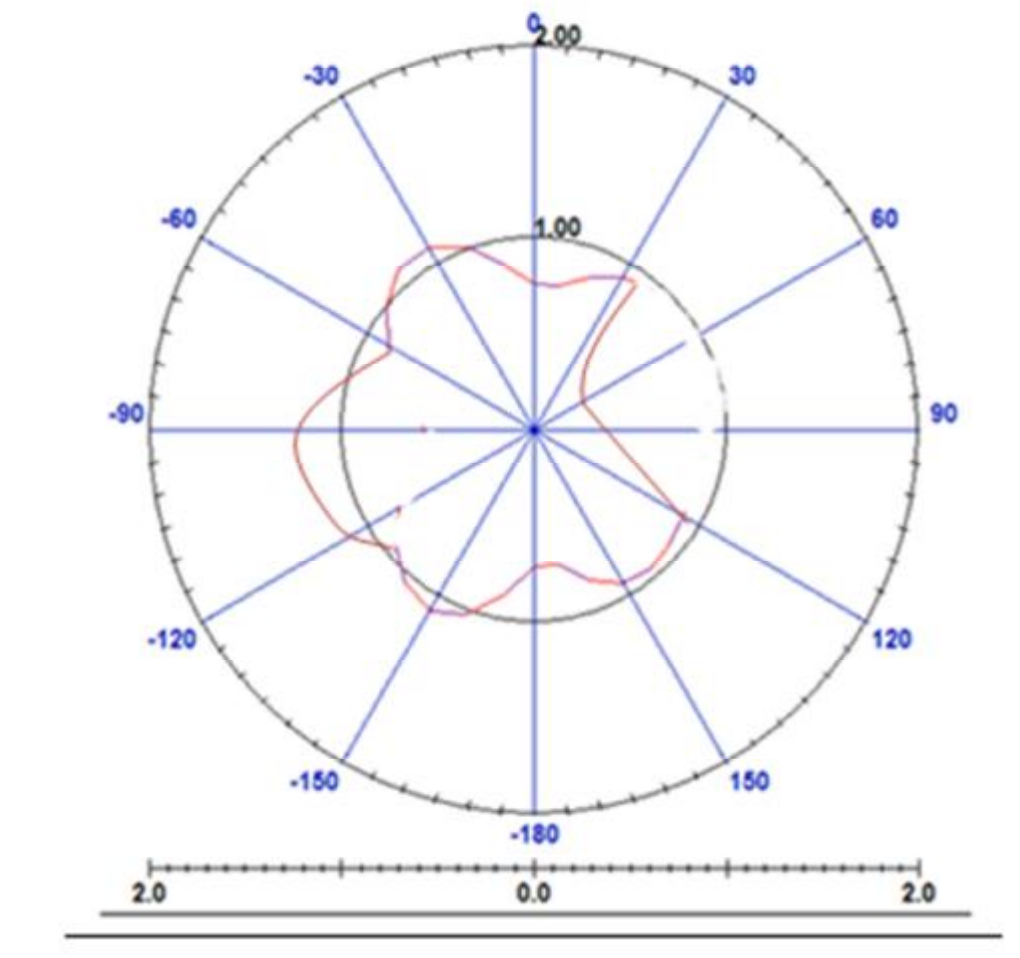
⑥Phase The simulation

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

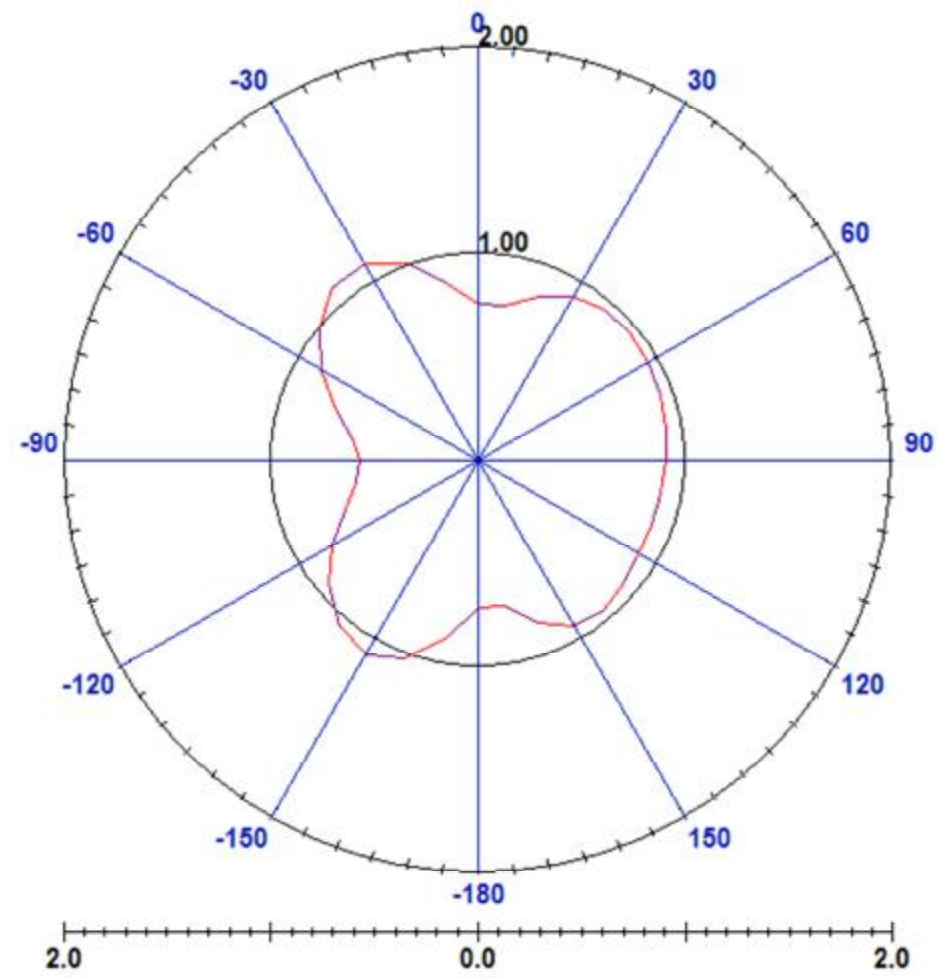


4. Radiation Patterns

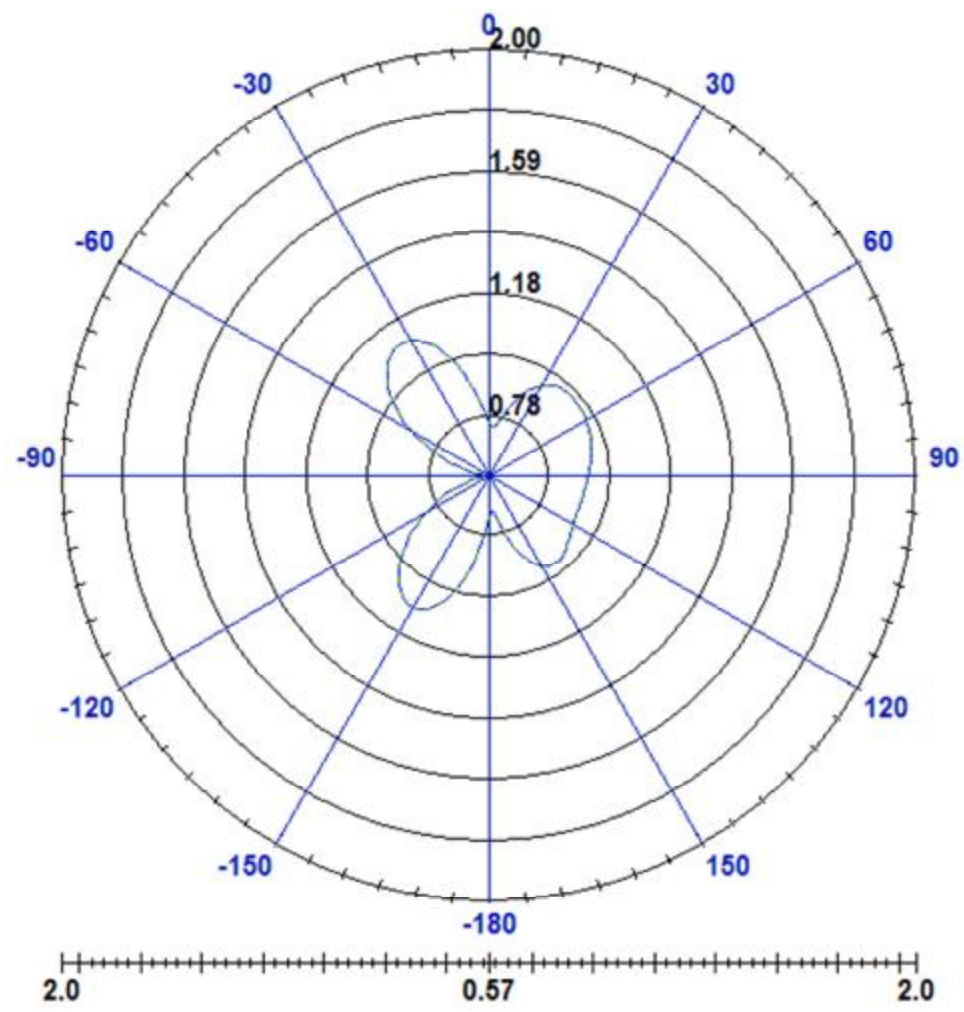
XY-plane



XZ-plane



YZ-plane



3D Radiation field type

