

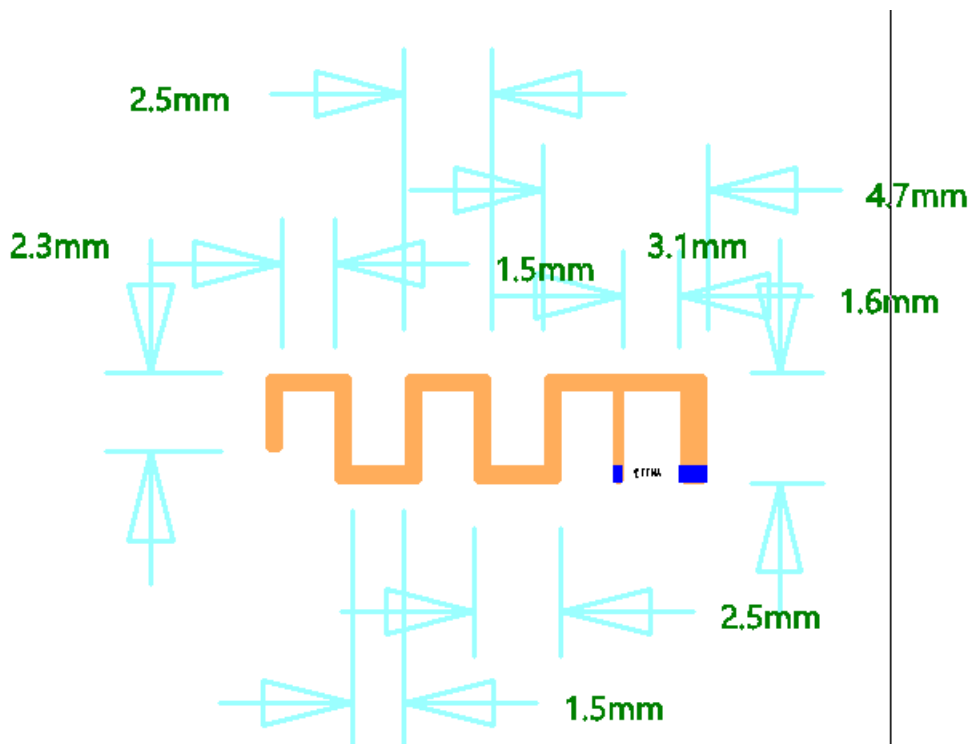
Antenna specification

Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

1. Dimensions



2. Specifications

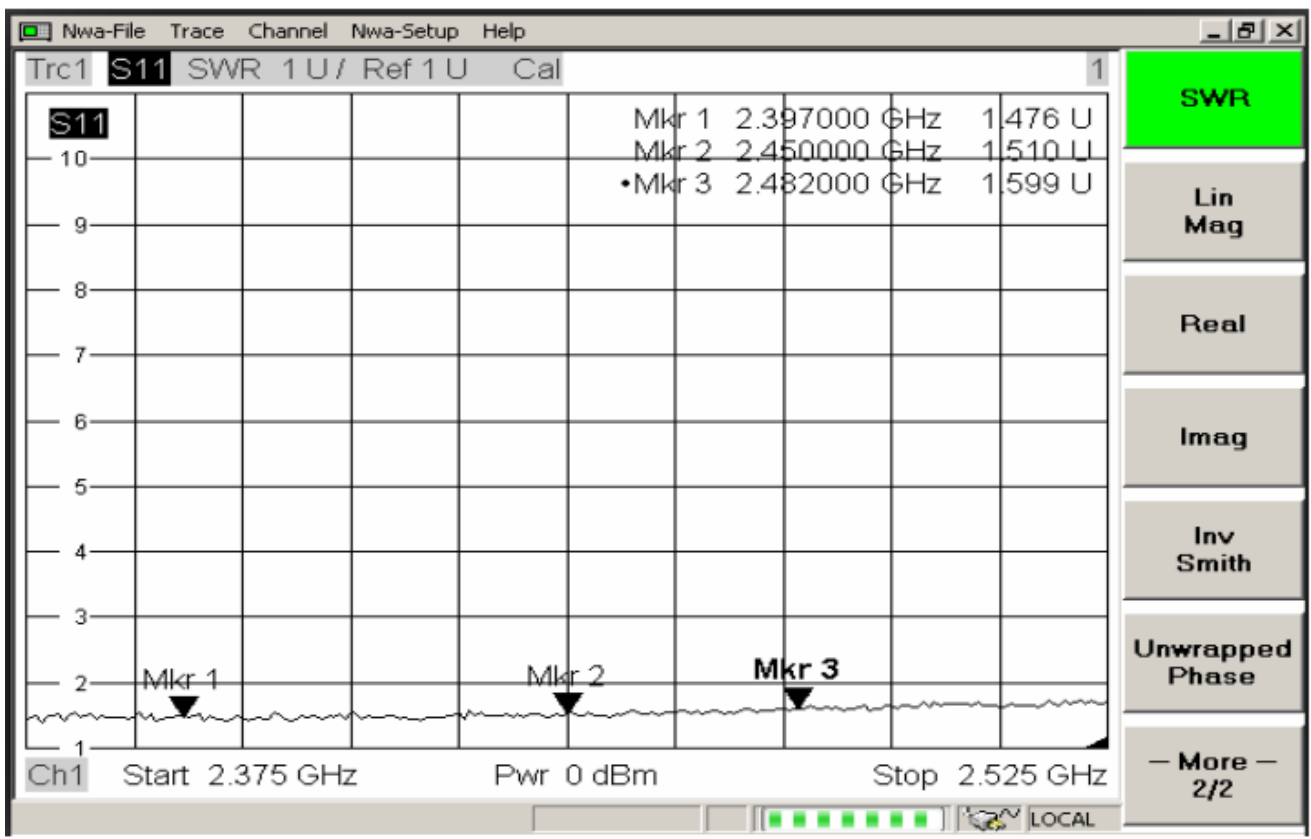
number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480) MHz
3	Gain	0dBi
4	VSWR	≤2.0

5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 Ω
8	Modulation mode	GFSK

3. simulation parameter

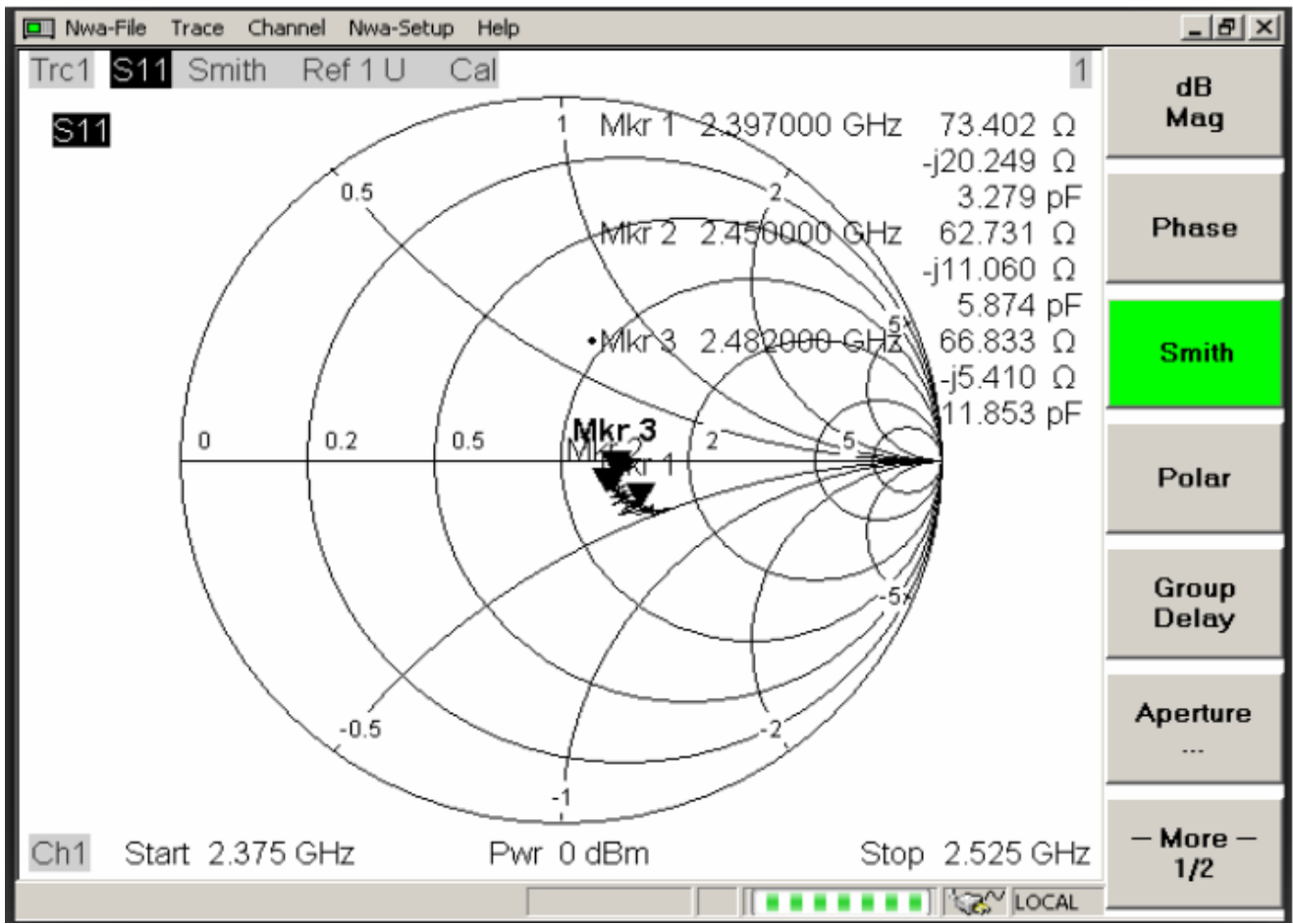
① VSWR

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



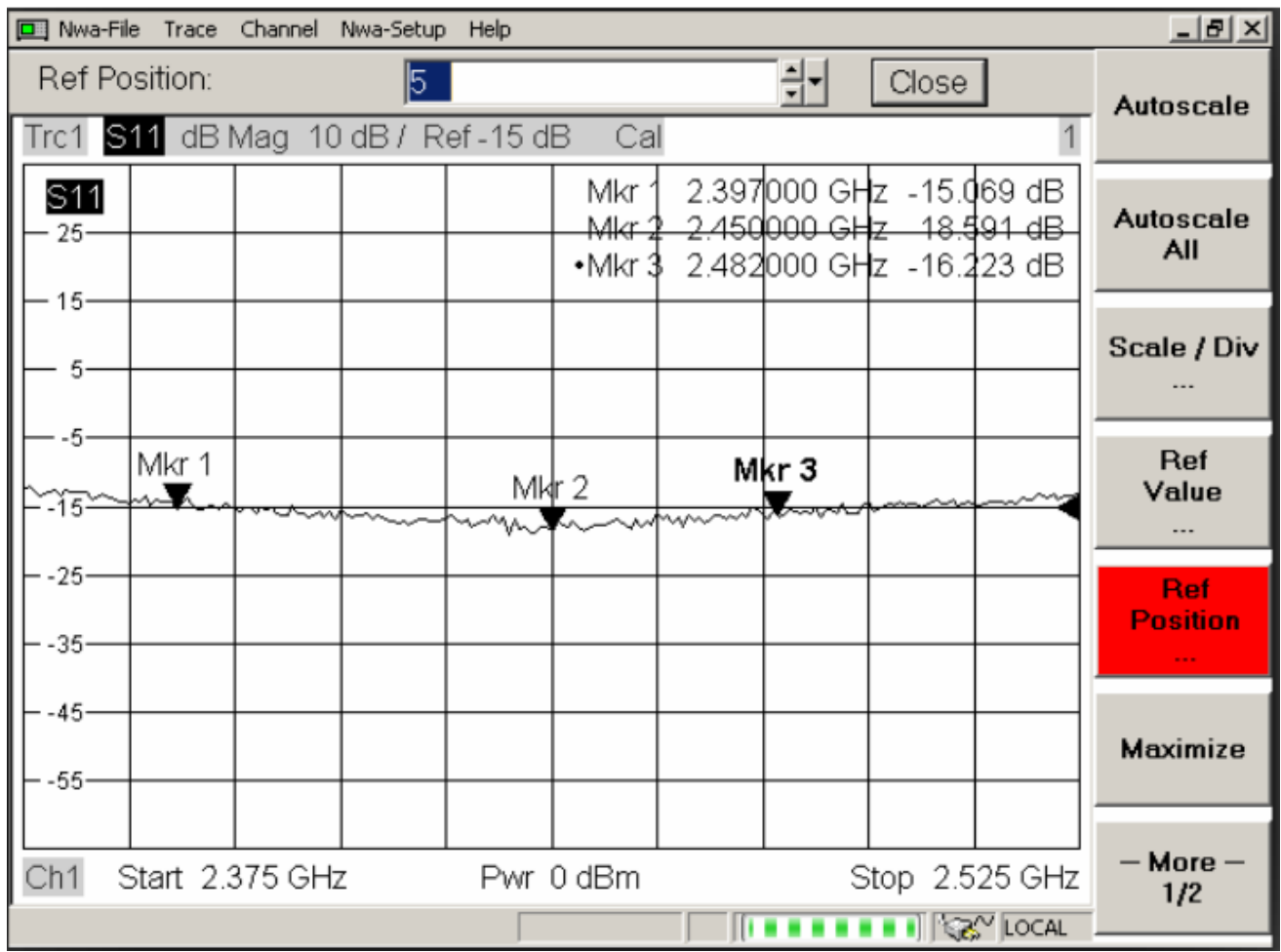
②Smith Char

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



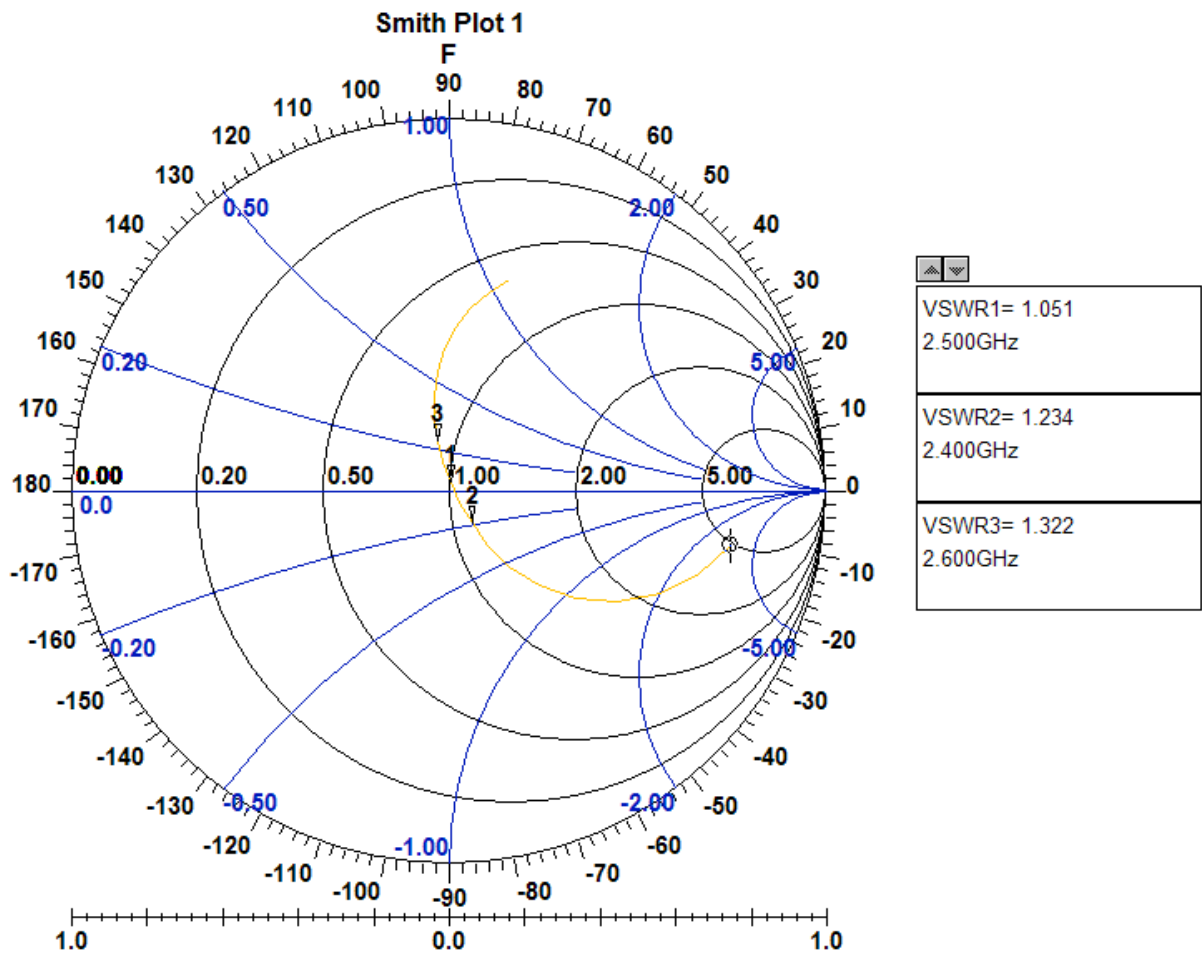
③Return Loss

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



④Smith Char

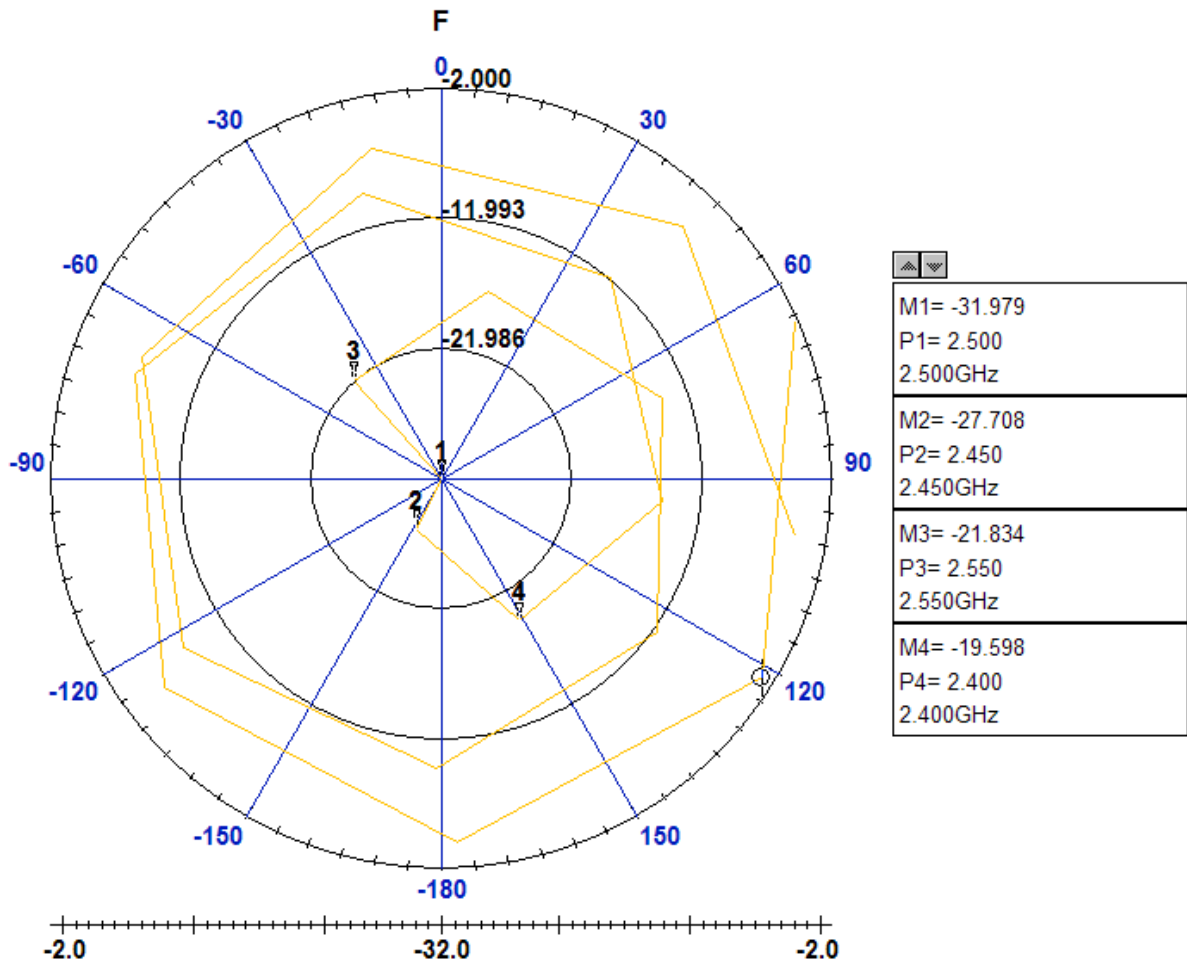
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051 Mkr3: 2600MHz 1.322



⑤Return Loss

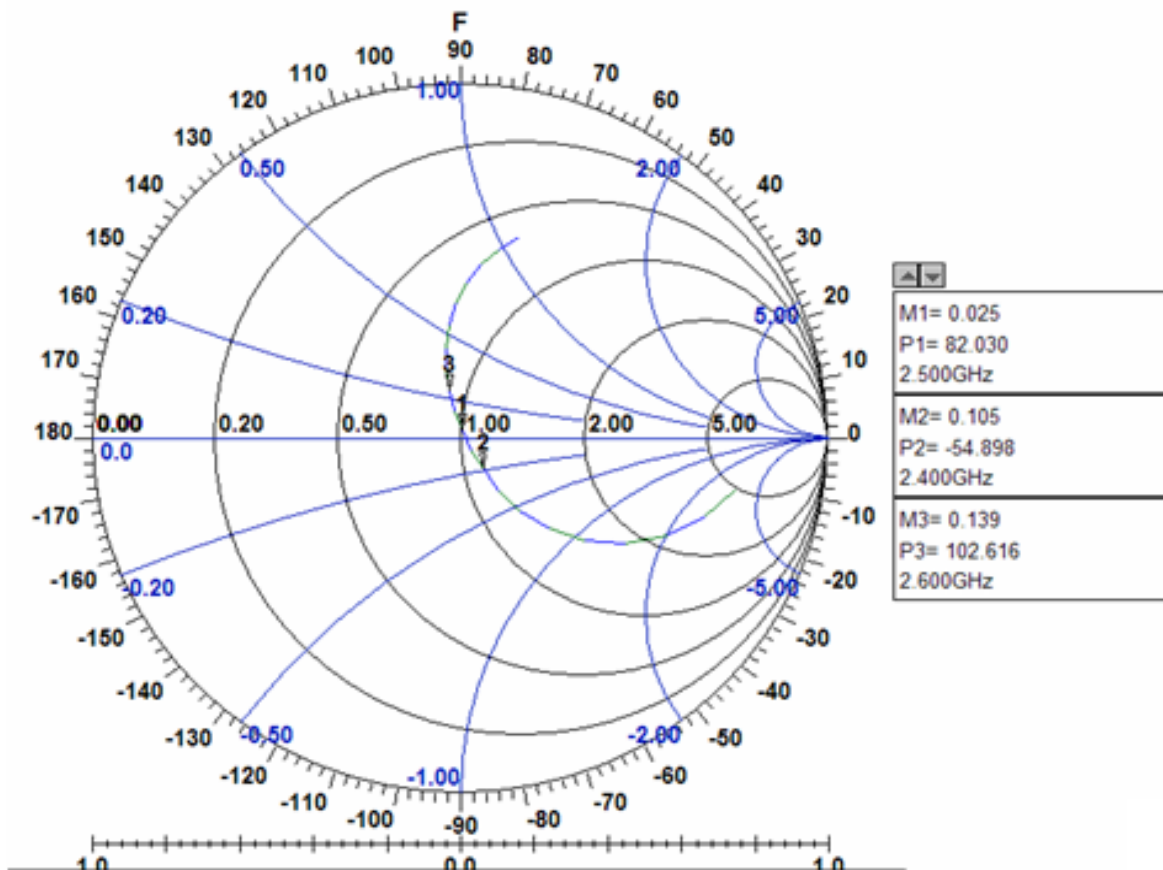
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2450MHz -21.83



⑥Phase

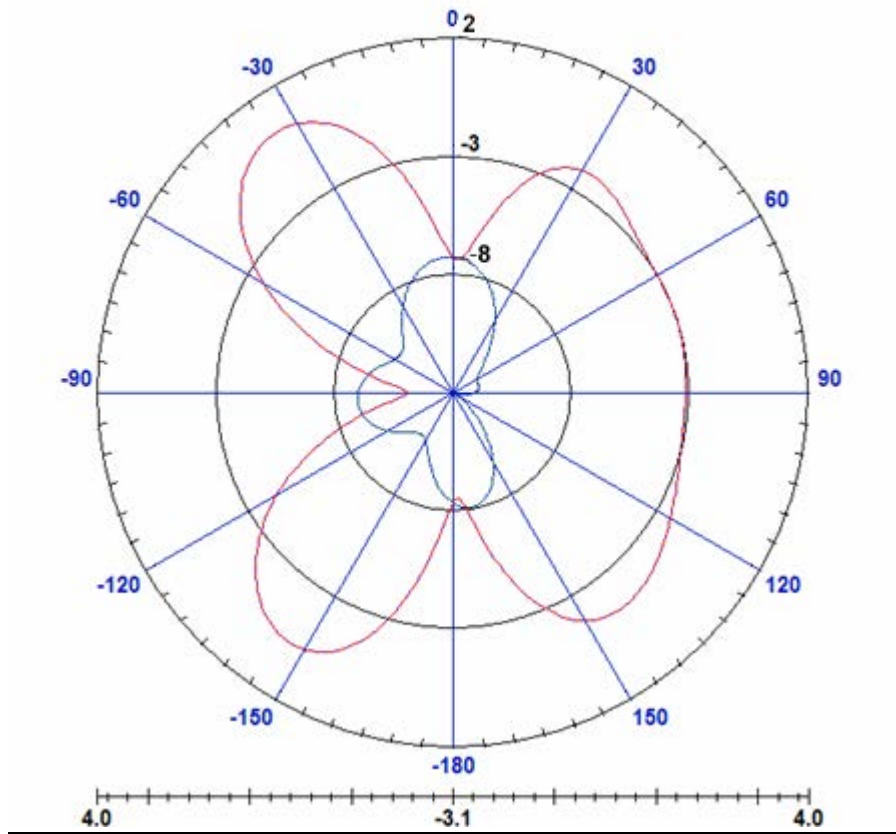
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



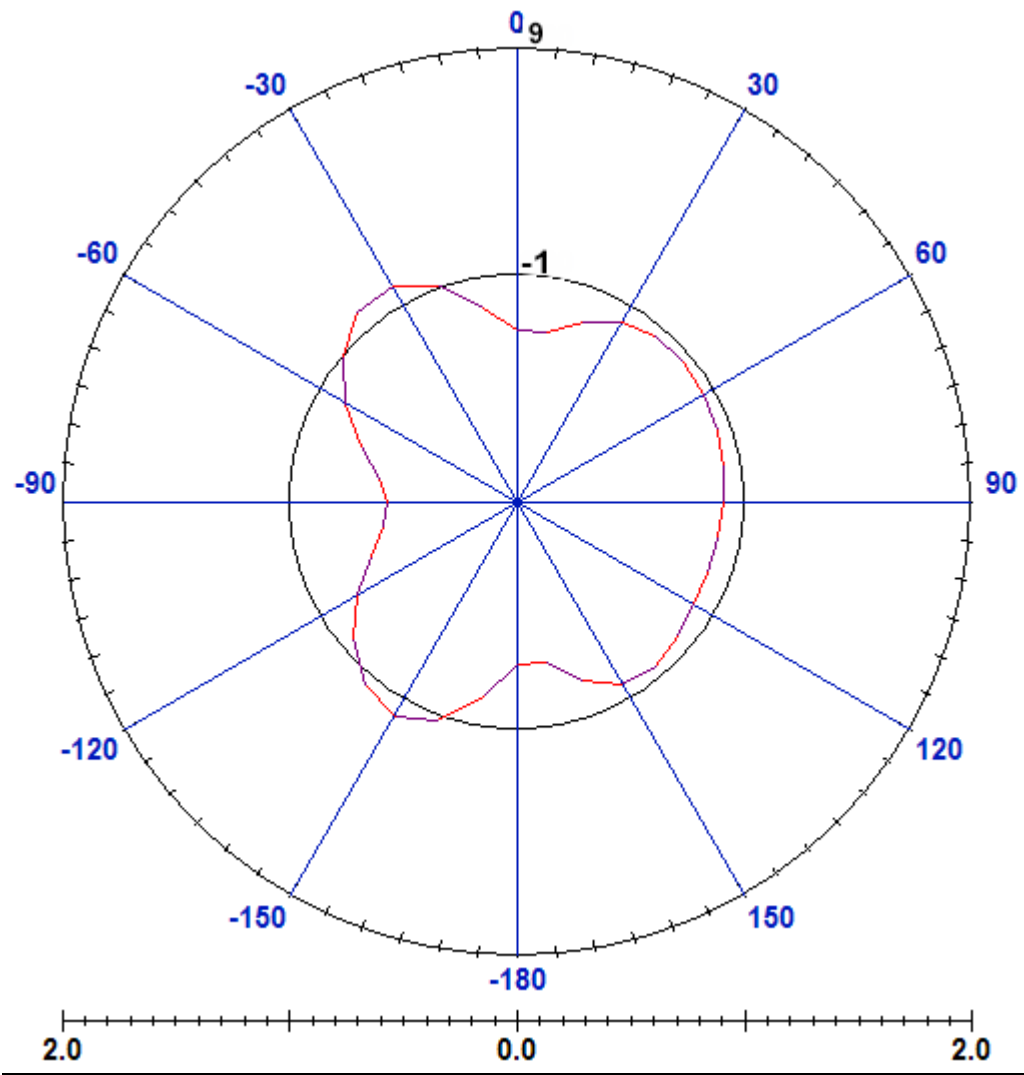
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4. Radiation Patterns

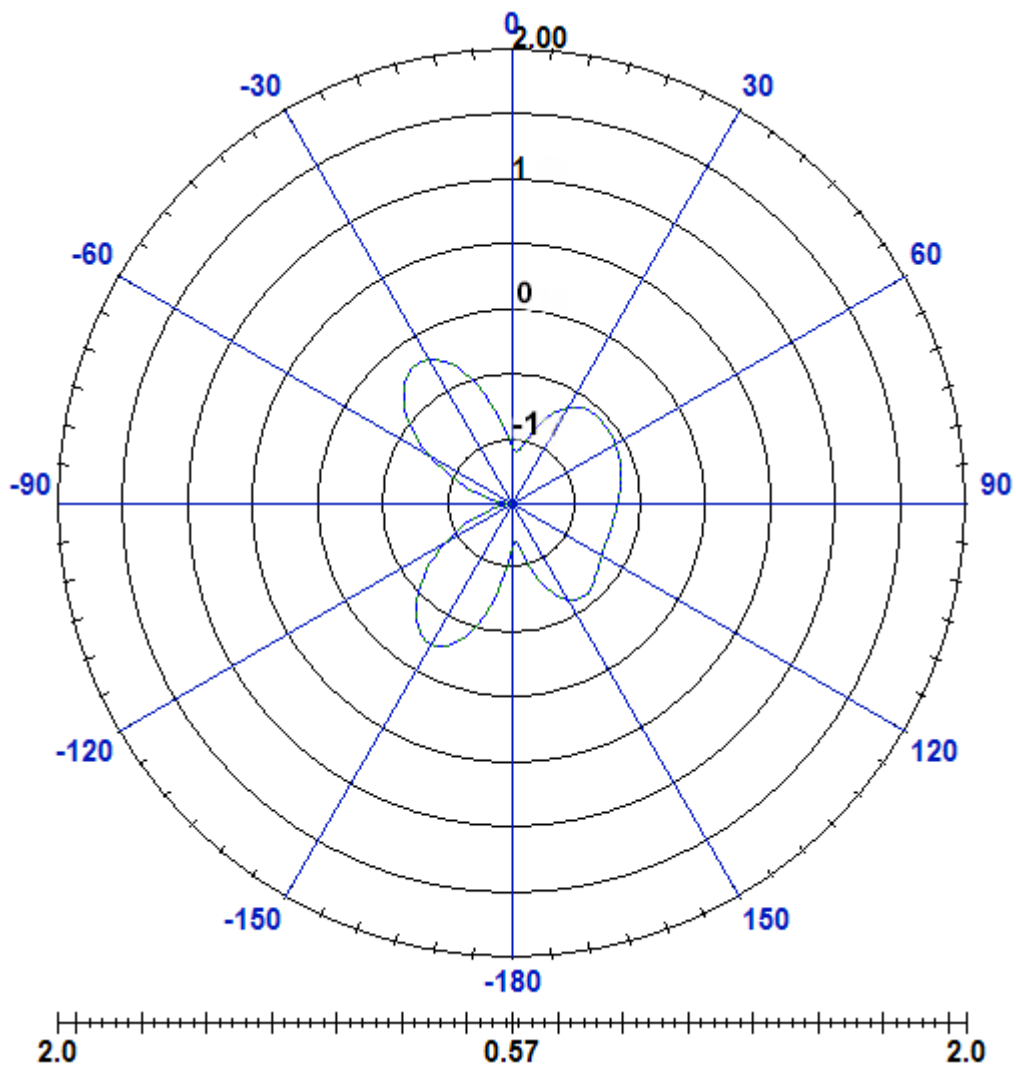
2450MHz XY-plane Max Gain 0dbi



2450MHz XZ-plane Max Gain -0.13dbi

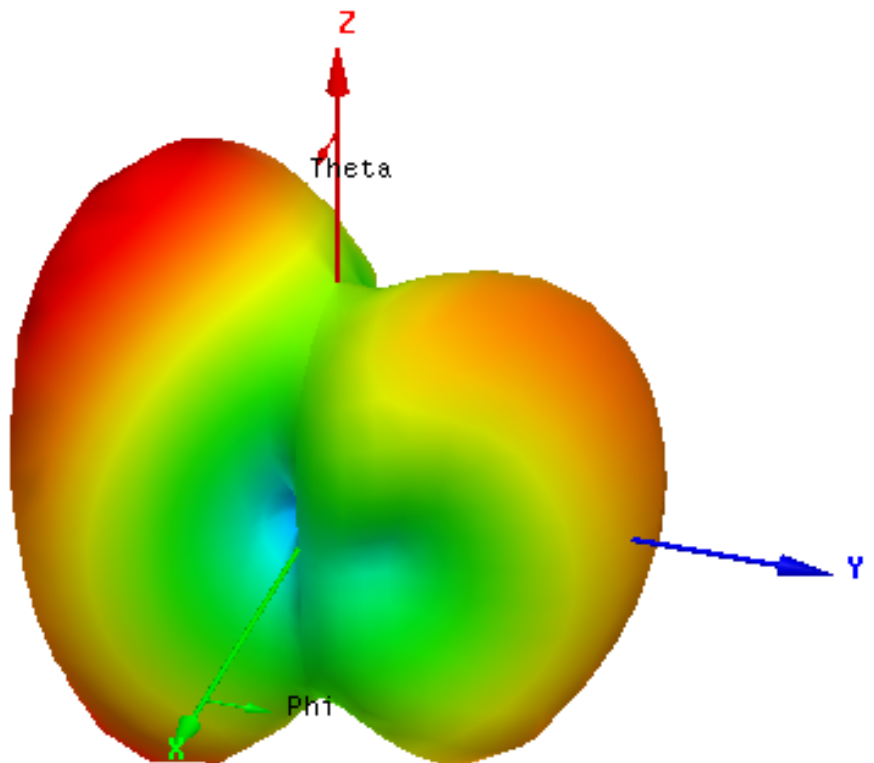
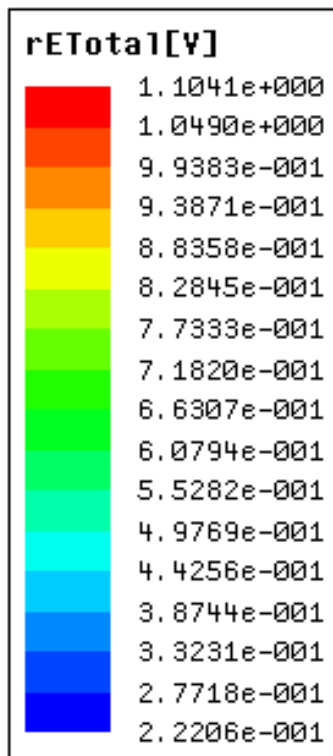


2450MHz YZ-plane Max Gain -0.39dbi



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3D Radiation pattern



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