

-The Antenna Performance
Test Specifications-

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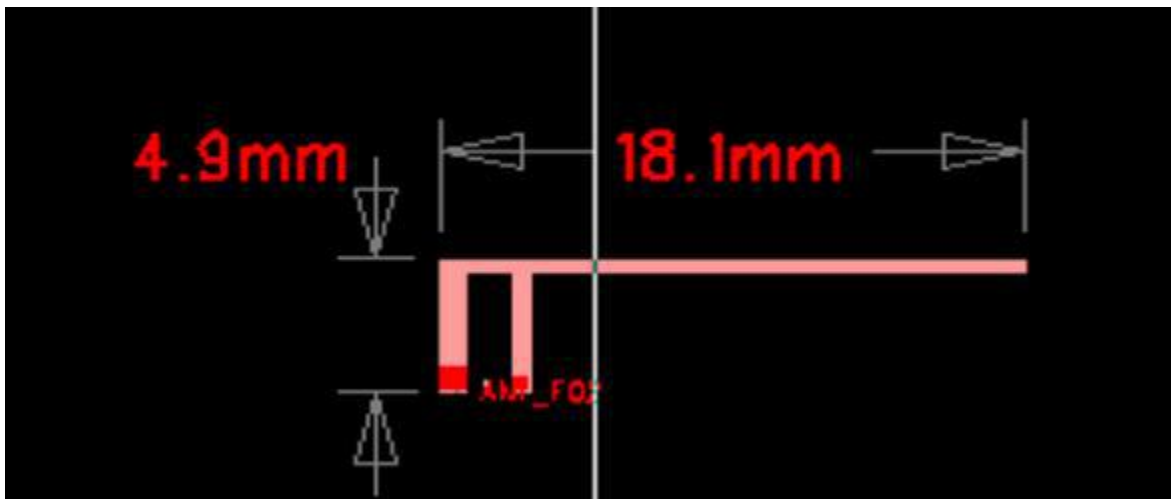
Antenna

Applications

※Bluetooth Home RF

※ISM band 2.4GHz

applications 1. Dimensions



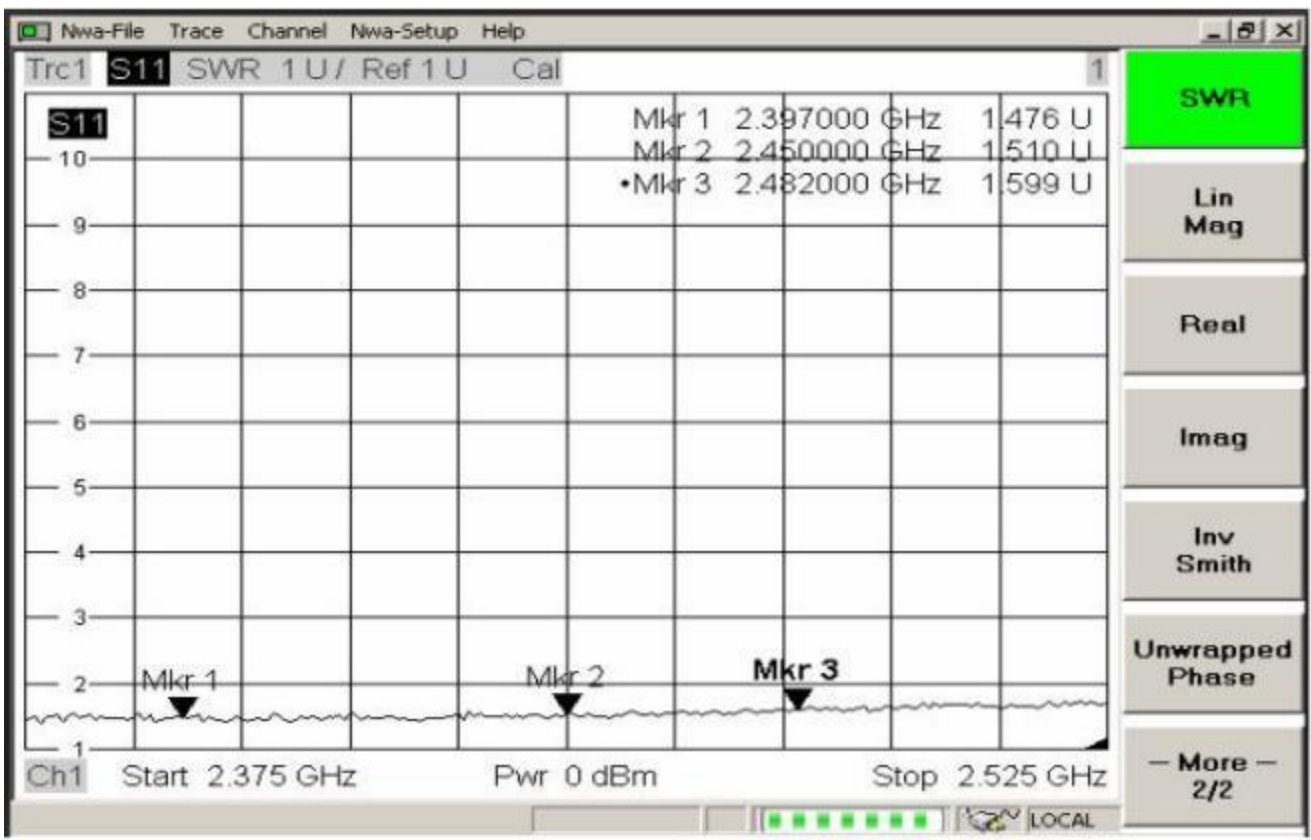
2. Specifications

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 Ohm
8	Modulation mode	GFSK

3. Instrument test and software simulation parameters

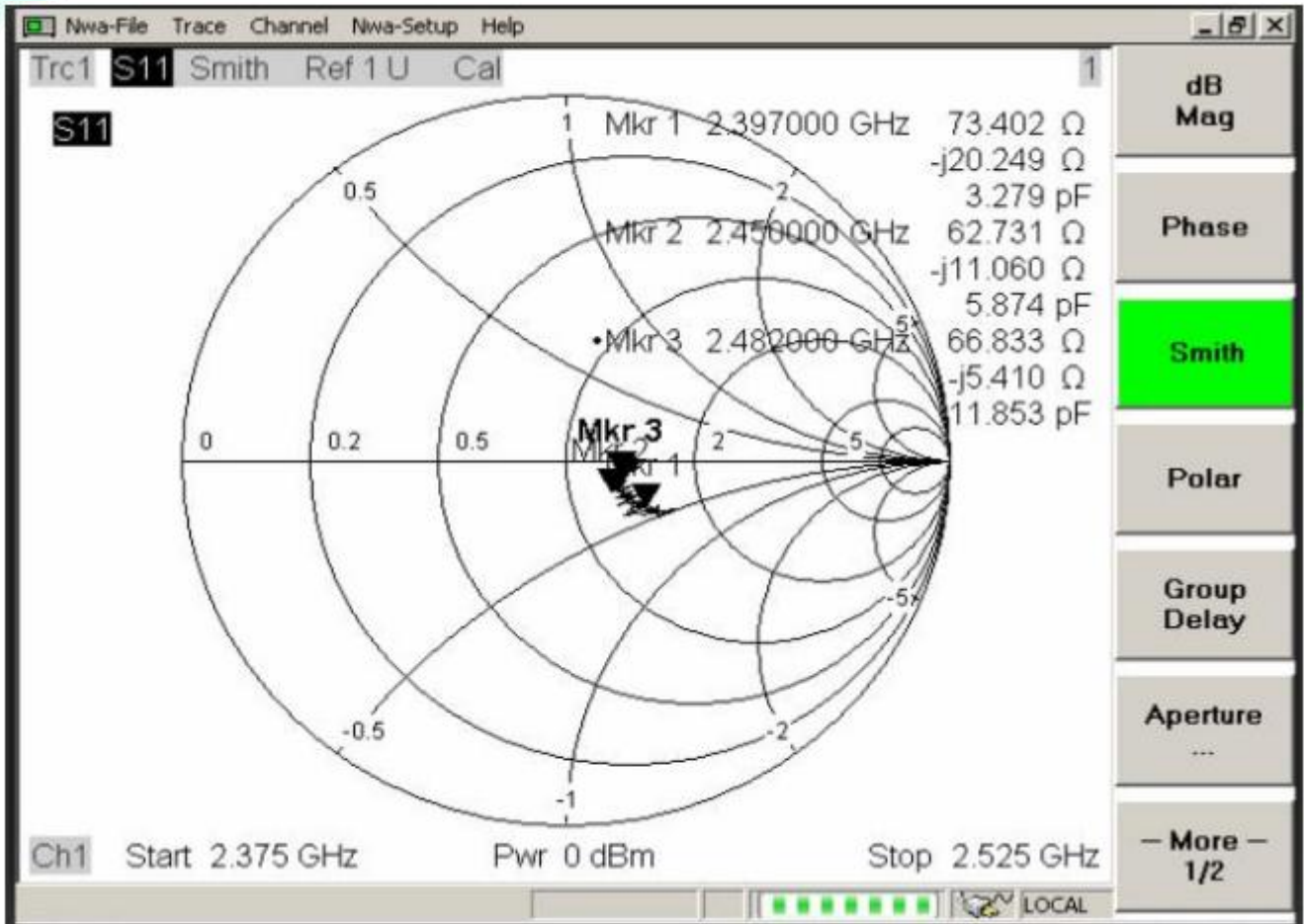
① VSWR

Mkr1: 2397MHz1.47 Mkr2: 2450MHz1.51 Mkr3:2482 MHz1.59



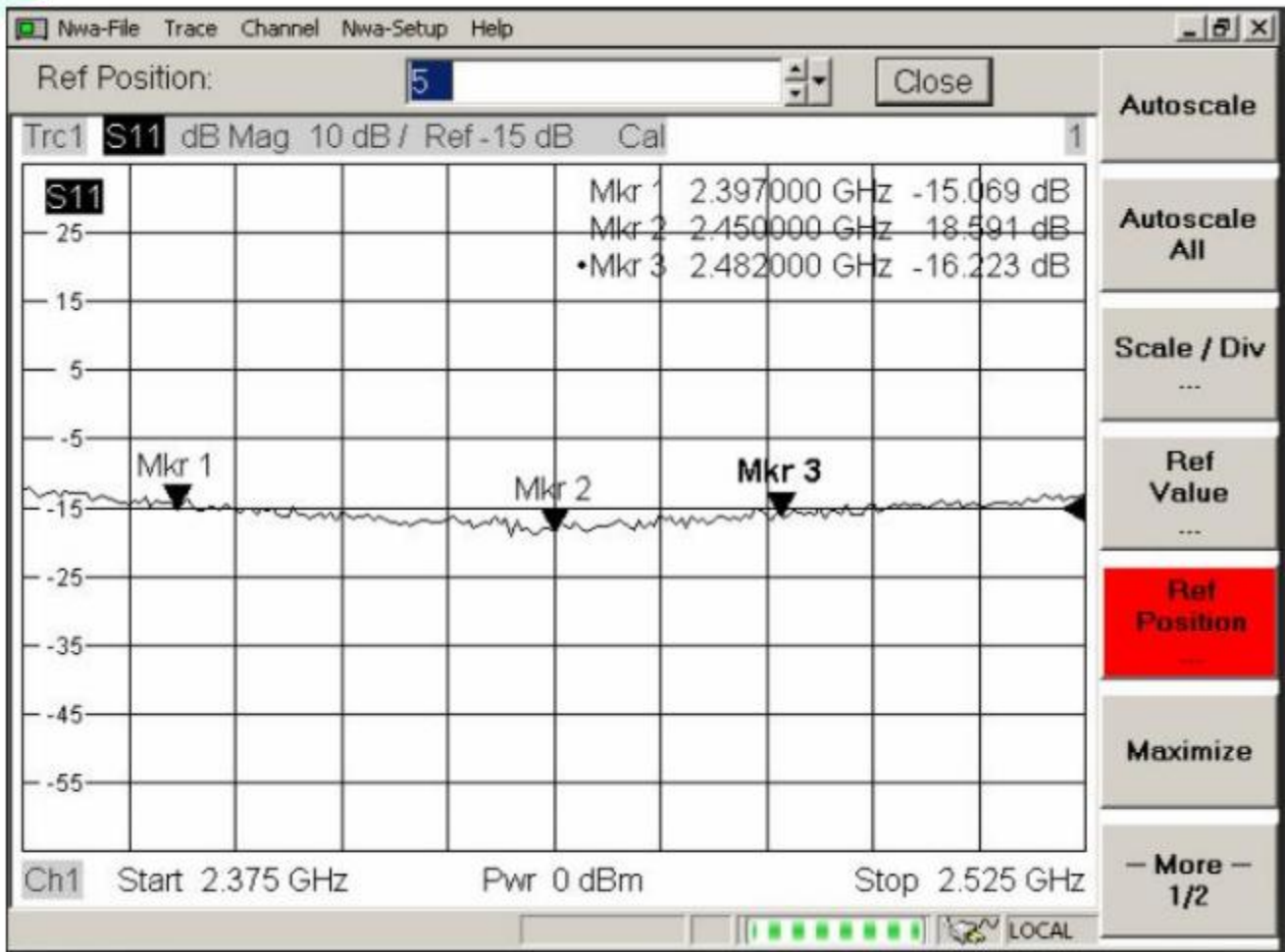
②Smith Char

Mkr1: 2397MHz 73.4 Mkr2:2450MHz62.7Mkr3:2482MHz66.8



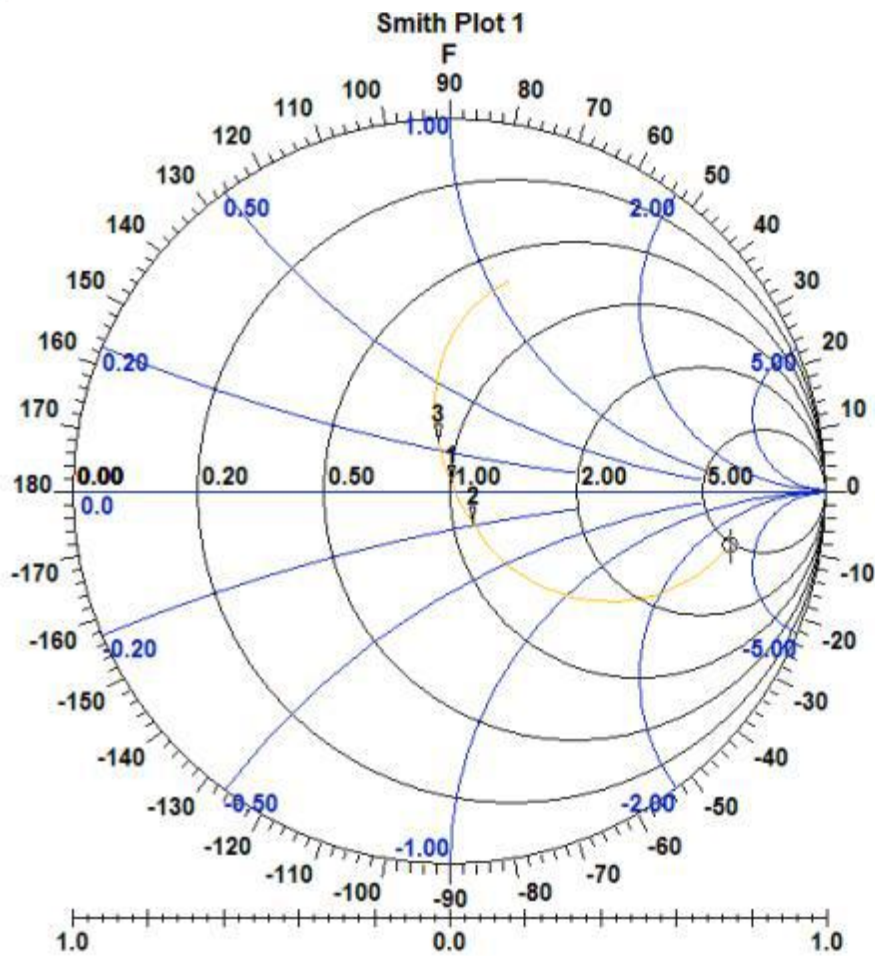
③Return Loss

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



④Smith Char Simulation

Mkr1: 2400MHz1.234 Mkr2: 2500MHz1.051 Mkr3:2600MHz1.322

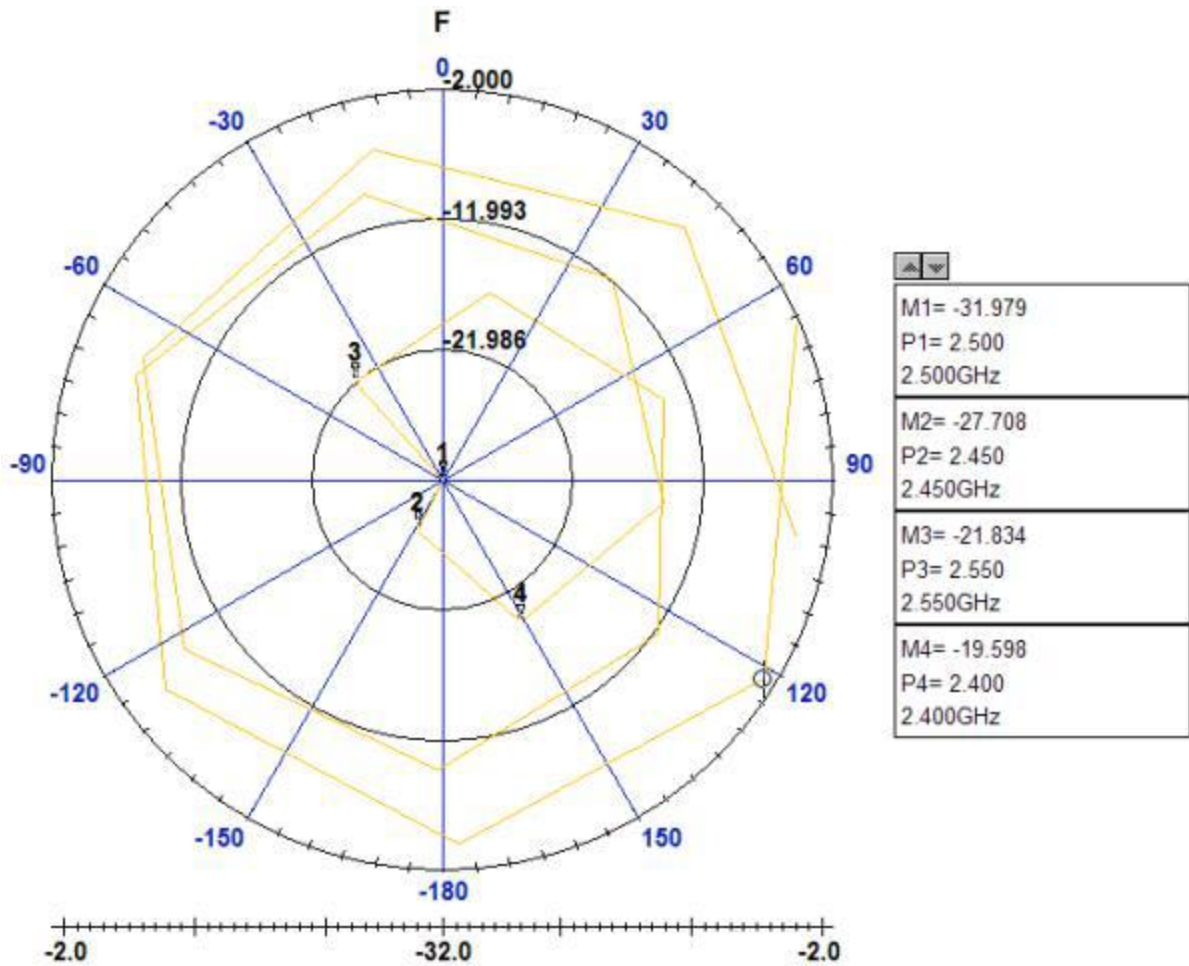


VSWR1= 1.051 2.500GHz
VSWR2= 1.234 2.400GHz
VSWR3= 1.322 2.600GHz

⑤Return Loss Simulation

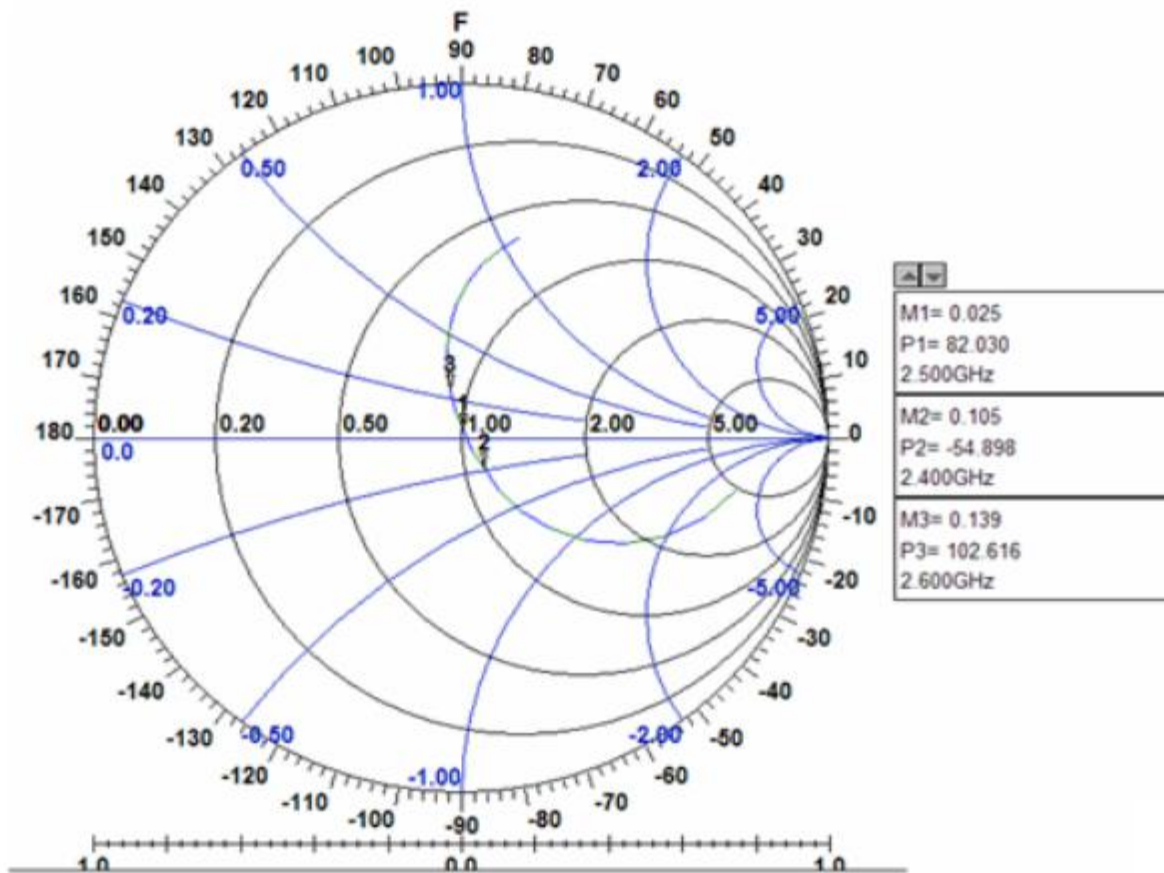
Mkr1:2400MHz-19.59Mkr2:2450MHz-27.70Mkr3:2500MHz-31.97

Mkr4: 2550MHz-21.83



⑥Phase simulation

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

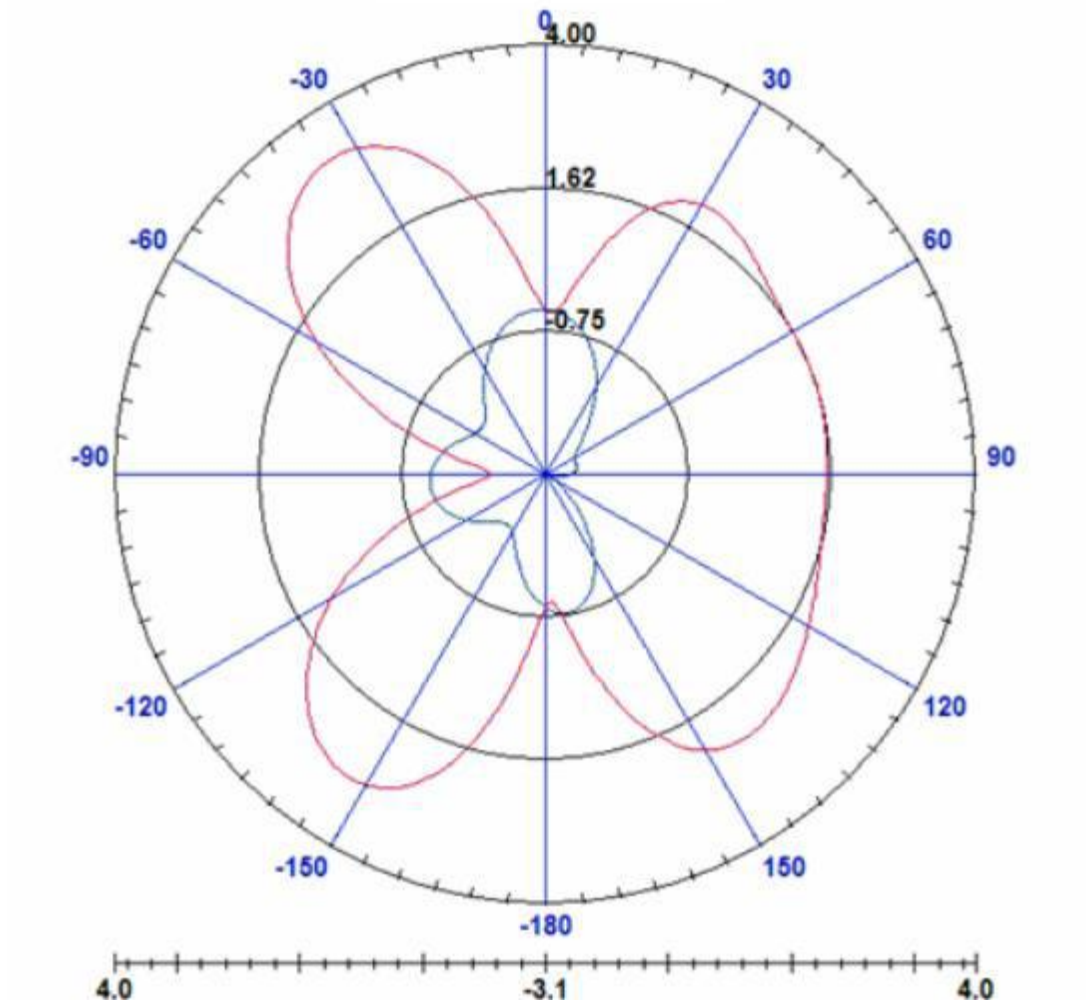


4. Radiation Patterns

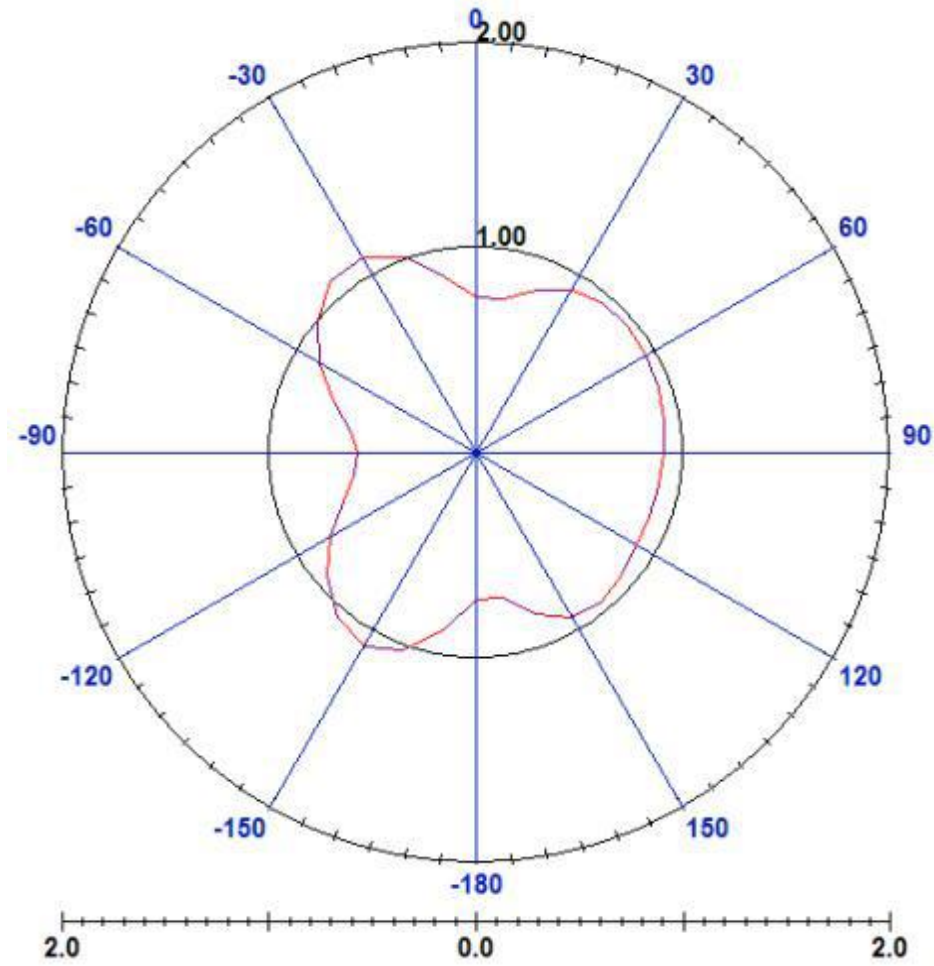
XY-plane

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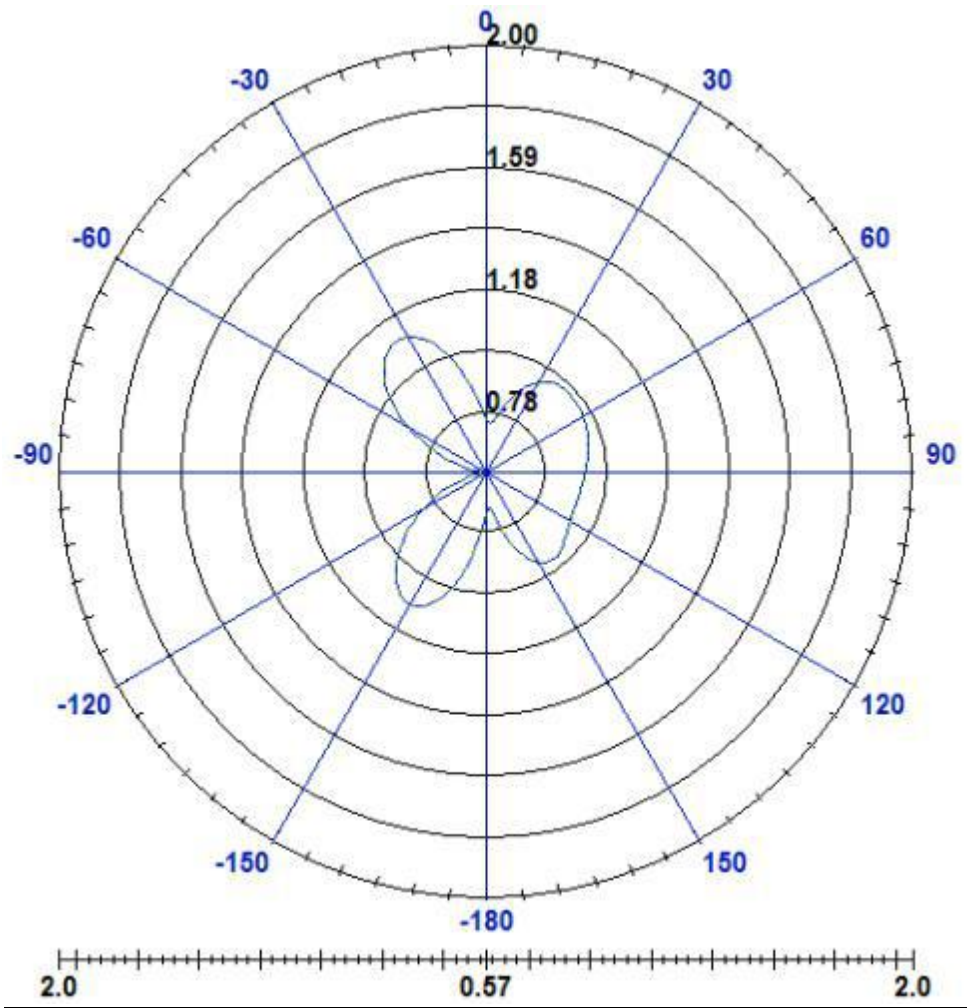
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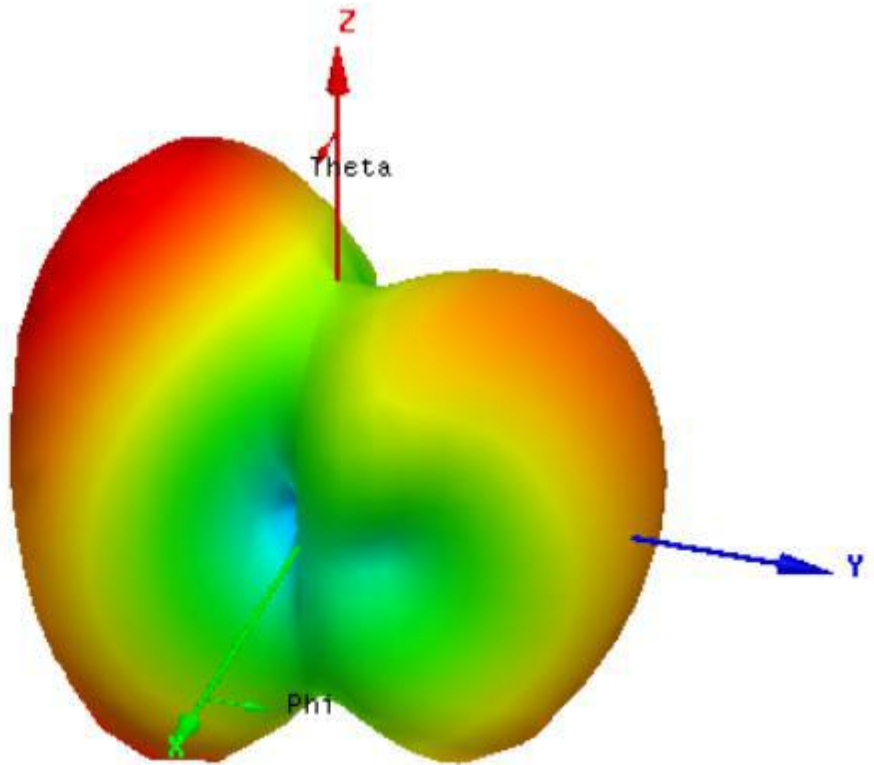
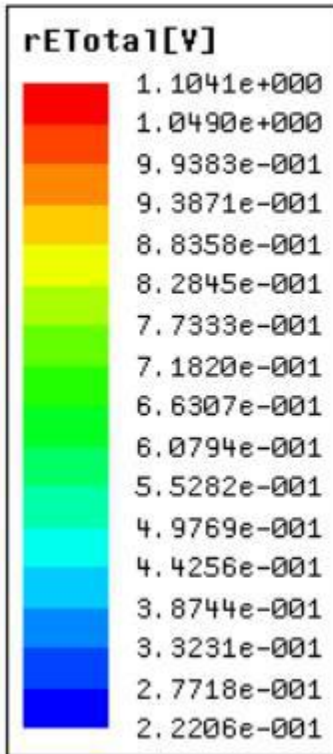
XZ-plane



YZ-plane



3D radiation field type Fig



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