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K5

天线性能测试规格书

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

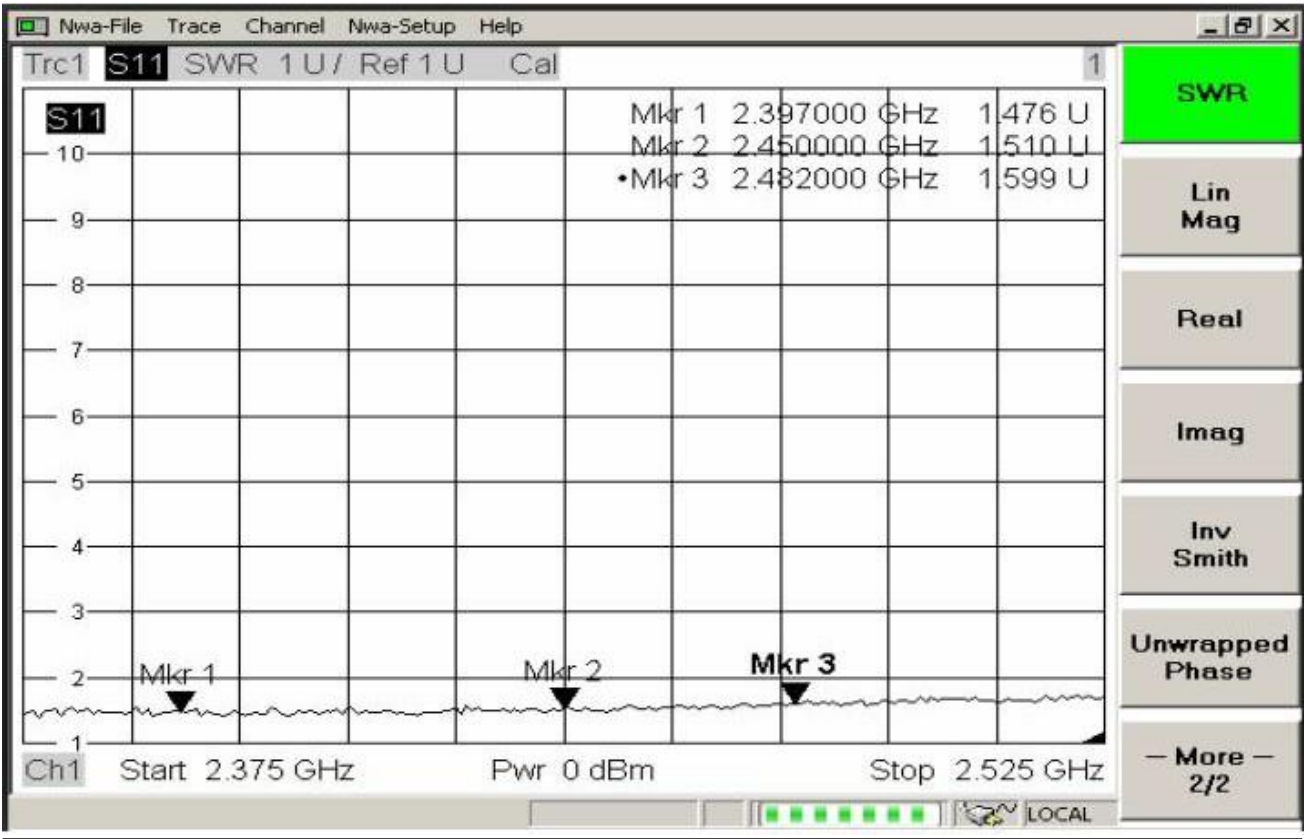
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6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Modulation mode	GFSK

3. 仪器测试、软件仿真参数

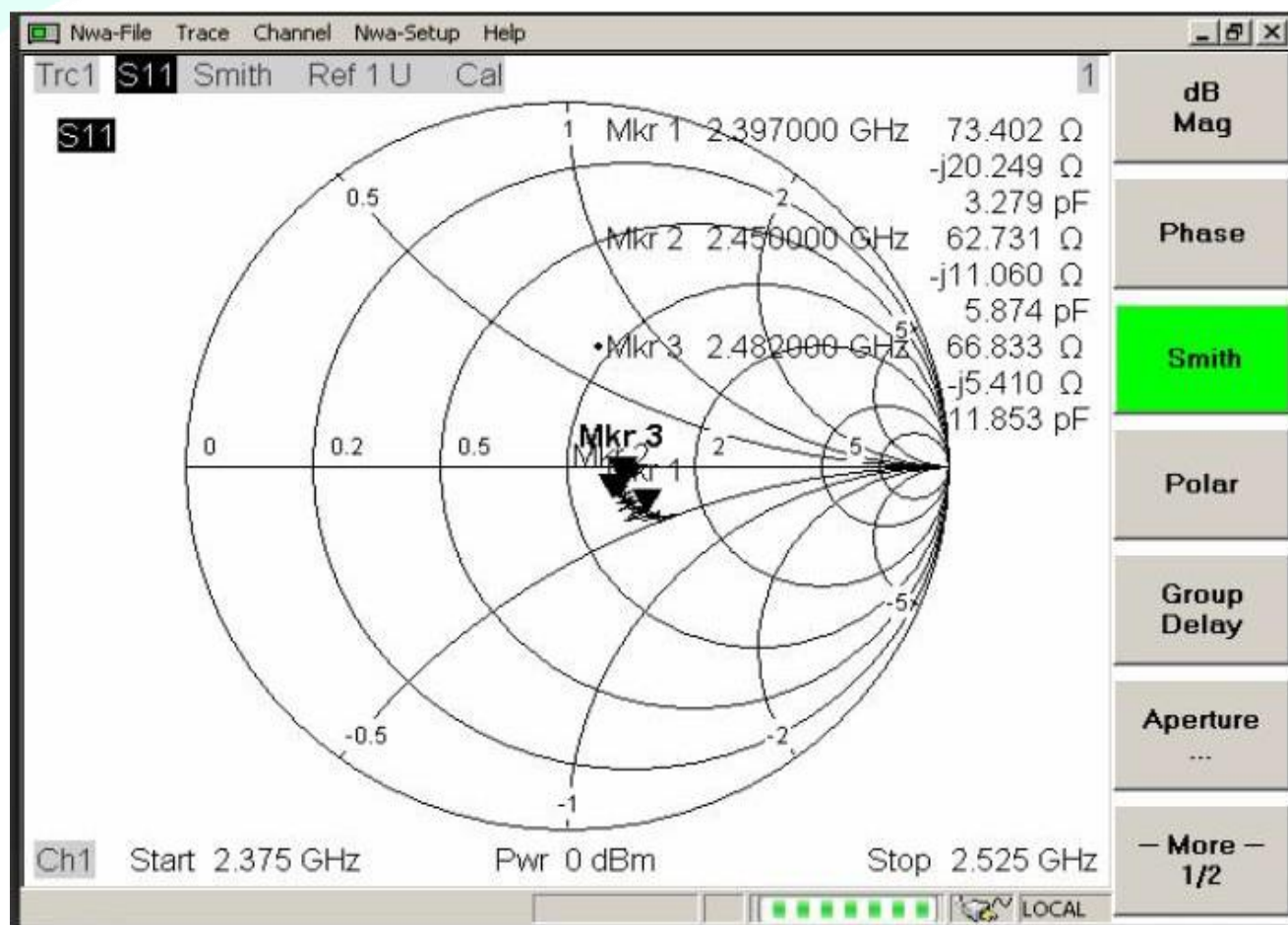
① VSWR

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



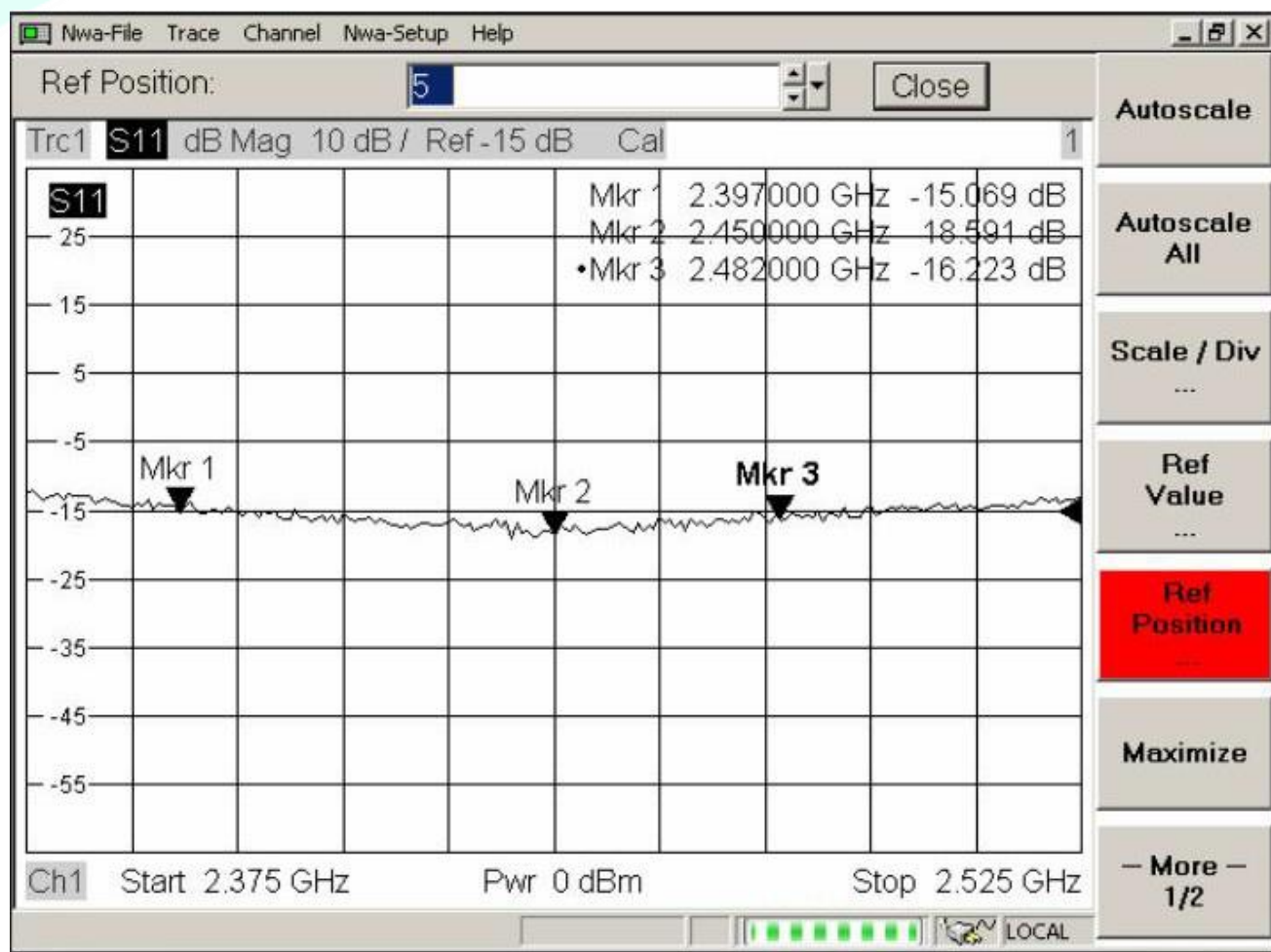
②Smith Char

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



③Return Loss

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

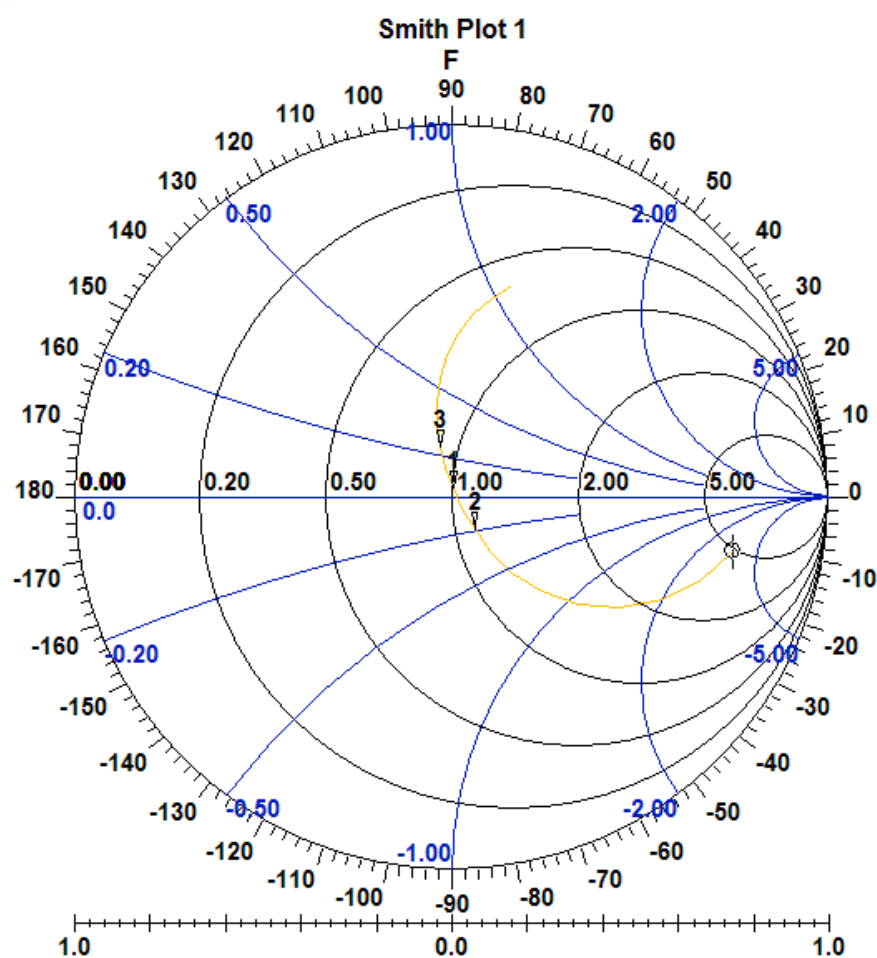


④Smith Char 仿真

Mkr1: 2400MHz 1.234

Mkr2: 2500MHz 1.051

Mkr3: 2600MHz 1.322



VSWR1= 1.051
2.500GHz

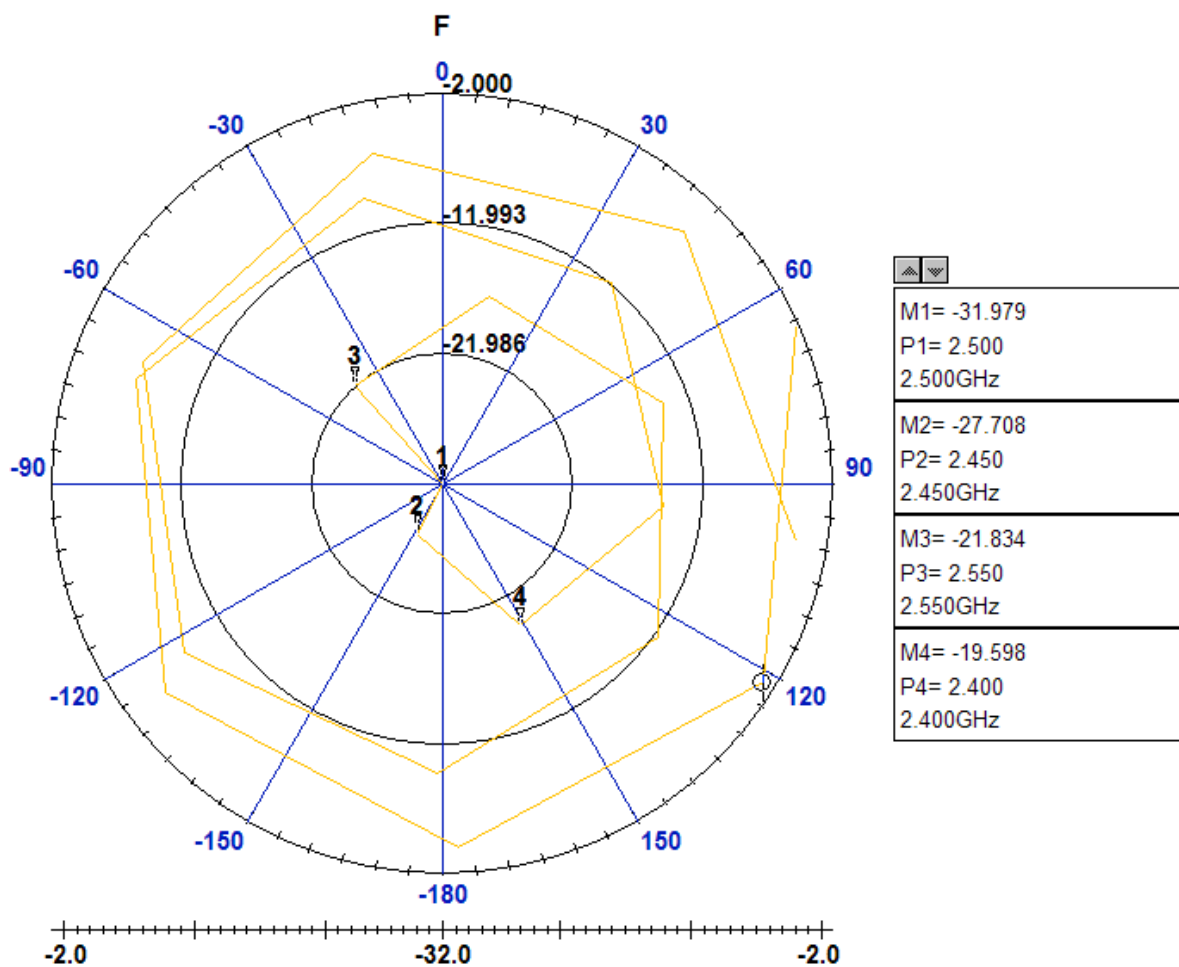
VSWR2= 1.234
2.400GHz

VSWR3= 1.322
2.600GHz

⑤Return Loss 仿真

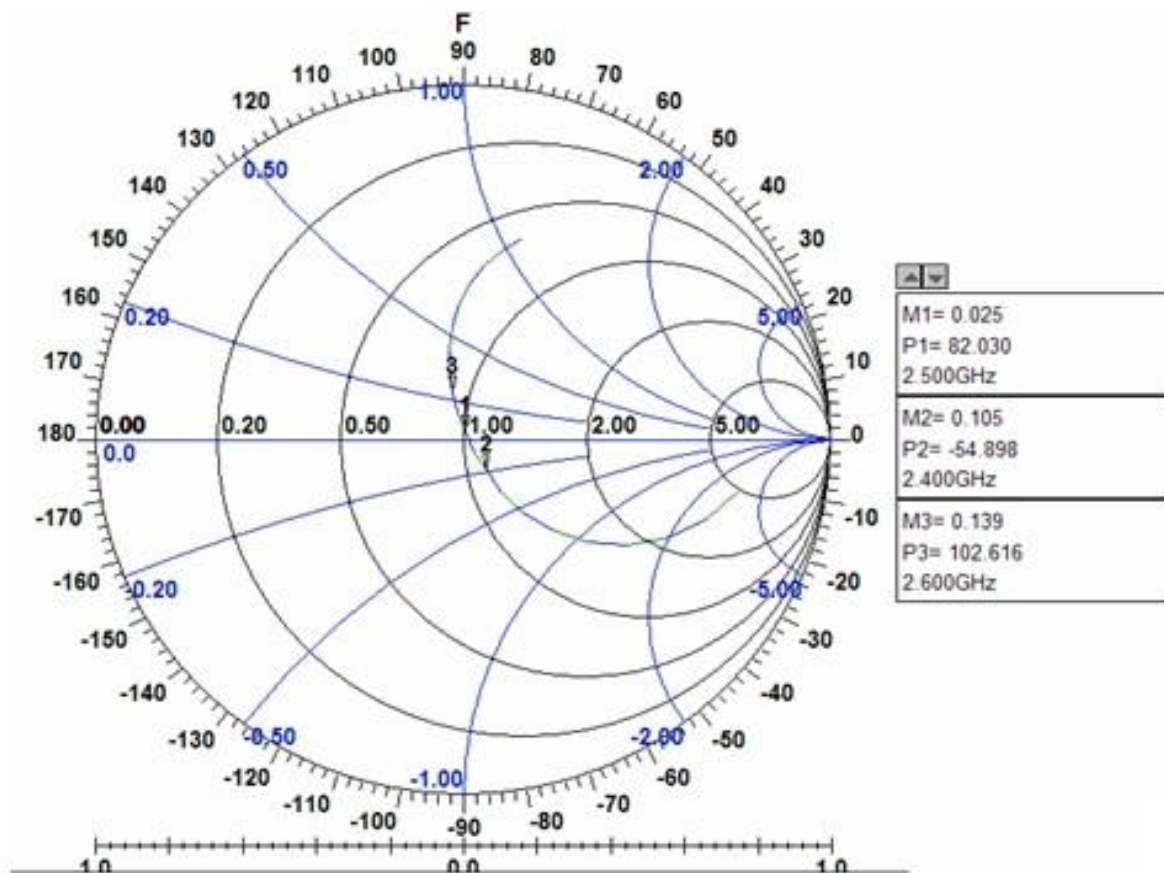
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



⑥Phase 仿真

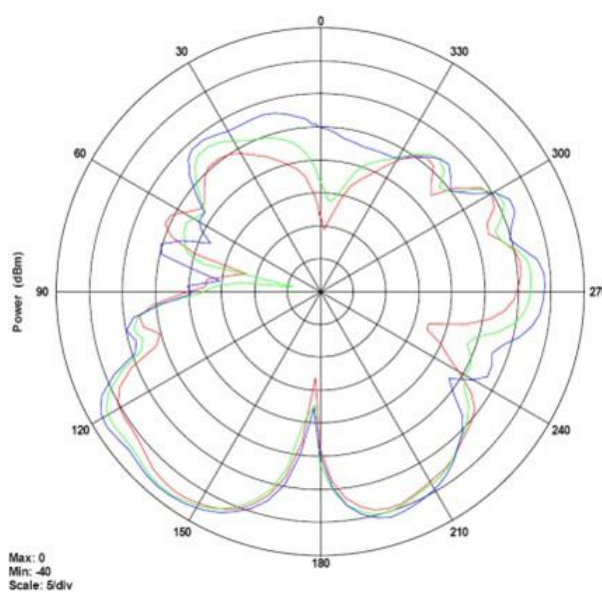
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



4. Radiation Patterns

Horizontal

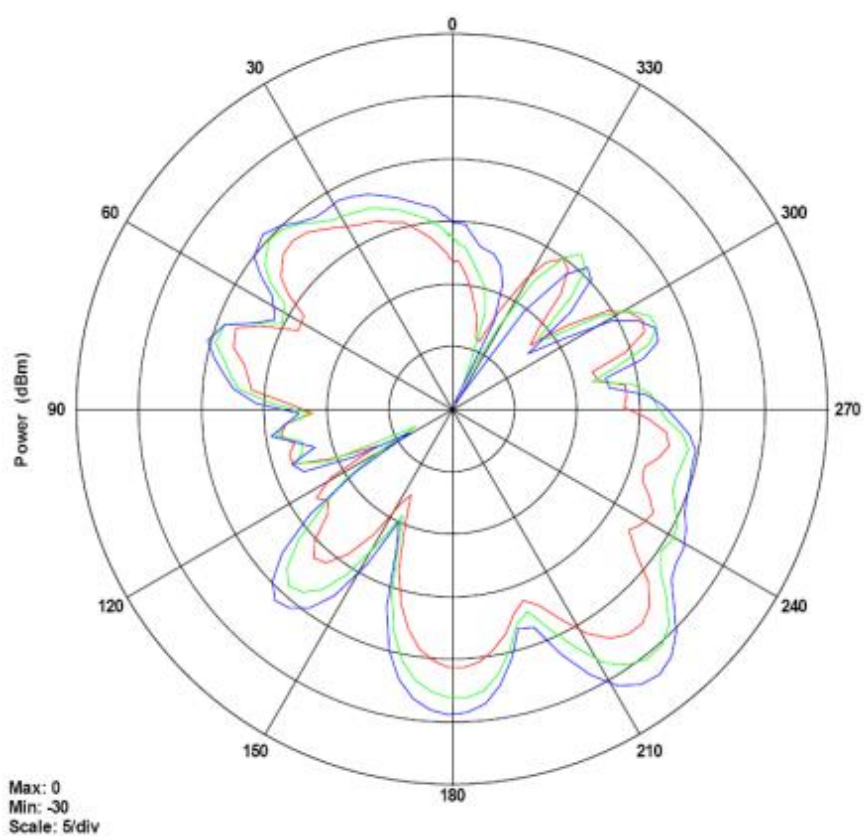
2405MHz 2441MHz 2475MHz



Frequency (MHz)	Gain(dBi)		
	Max.	Min.	Avg.
2405	-2.64776	-30.6718	-9.77028
2441	-1.89964	-35.918	-8.87095
2475	-1.66516	-24.7457	-7.99065

Vertical

2405MHz 2441MHz 2475MHz



Frequency (MHz)	Gain(dBi)		
	Max.	Min.	Avg.
2405	-7.09317	-24.1891	-13.5194
2441	-4.7048	-27.8246	-11.666
2475	-3.1576	-29.4867	-10.5684