

深圳市麒新弘泽科技有限公司

Shenzhen Keesun Technology CO,ltd

天线测试报告

2. 4G+5. 8G 投屏器

Test Engineer:

Date:13.9.25

Outline Summary

- **Purpose**

Antenna design and test by HDC. Result as following.

- **Agenda**

- Test Environment and Equipment
- Antenna Pictures
- Matching Parameter

Test Result : Efficiency

Test Result : 2D Radiation Pattern

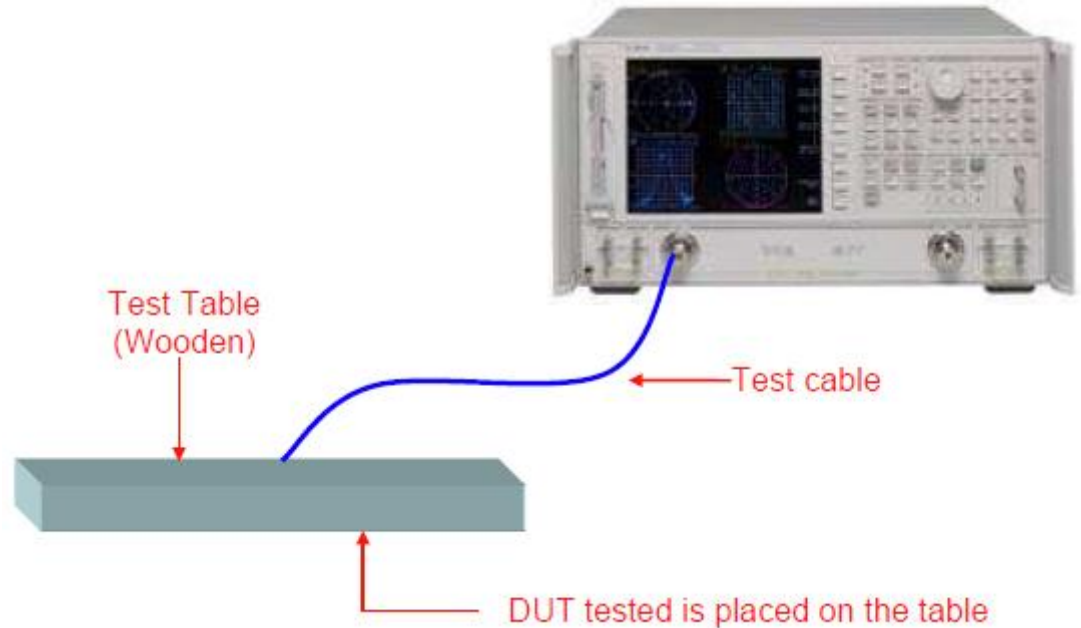
Test Result : 3D Radiation Pattern

- **Result & Suggestions**

Test Environment and Equipments

S-Parameter test

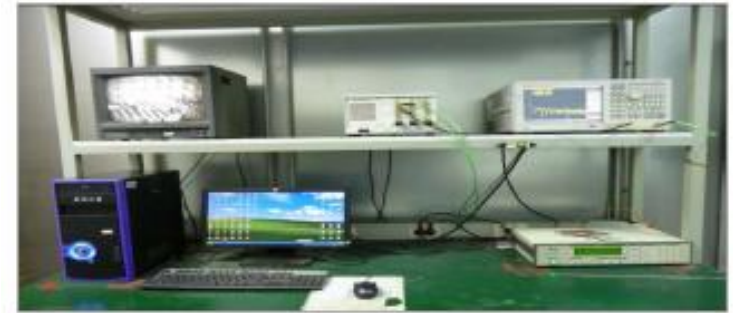
- Testing range from 9KHz to 8.5GHz or 300KHz~6.5GHz
- Network Analyzer(Agilent-E5071C or R&S ZVL)



Test Environment and Equipments

The Gain, Efficiency, Directivity and 2/3D Pattern

- 3D Anechoic Chamber
- Testing range from 500MHz to 6GHz
- Chamber Room Size: $L*W*H=9*4.7*4.7$ M

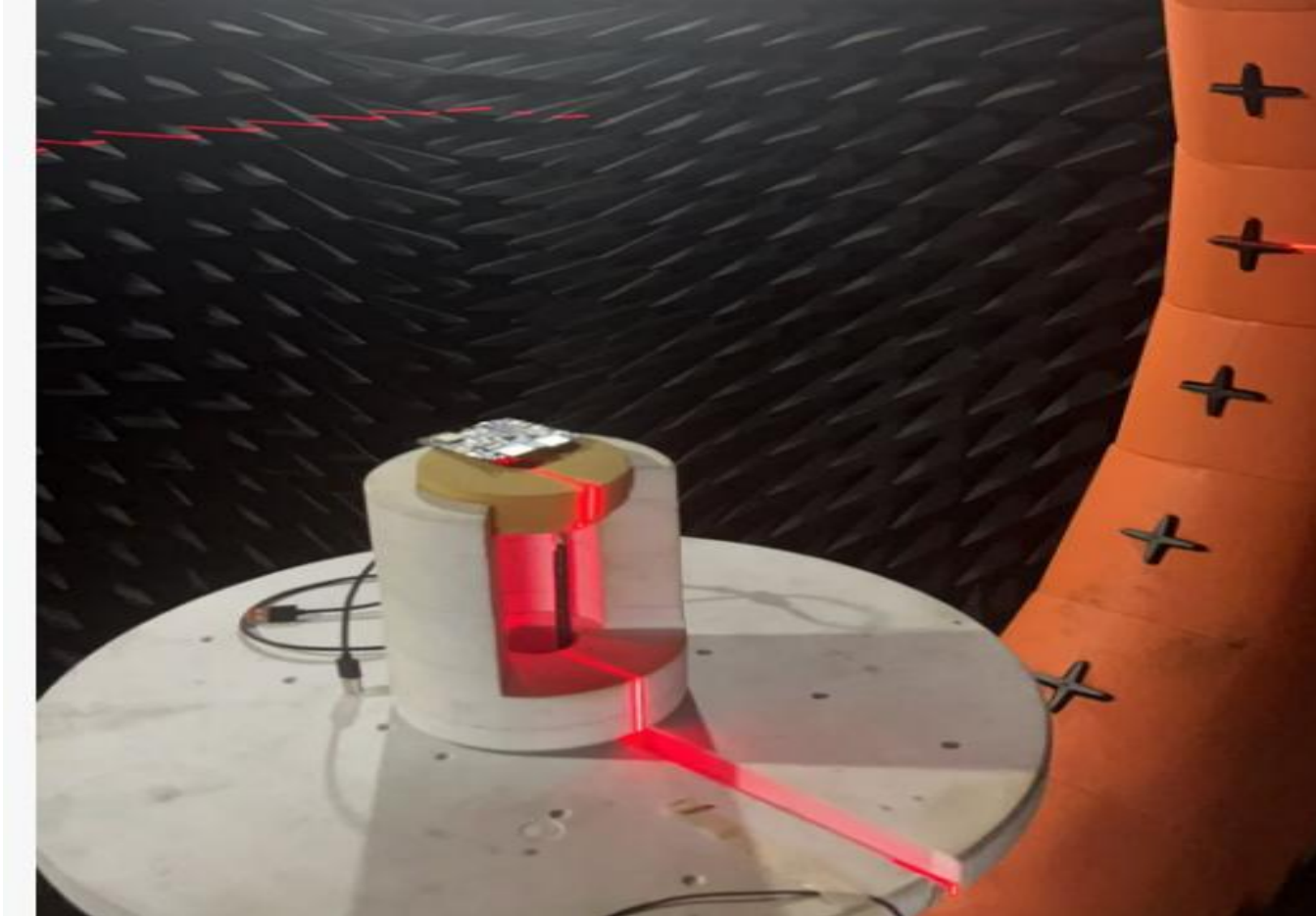


VSWR

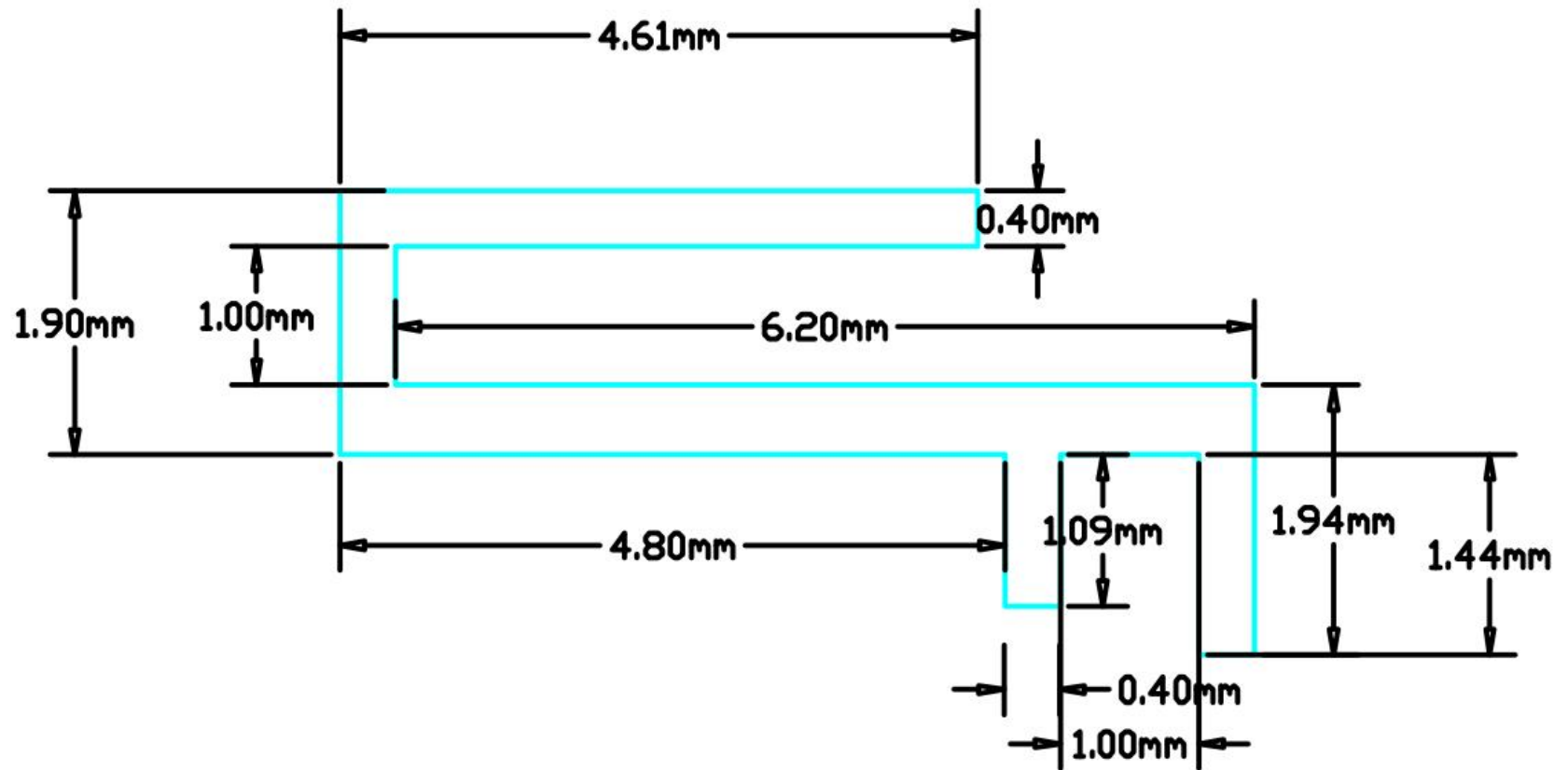
- Testing range from 9KHz to 8.5GHz or 300KHz~6.5GHz
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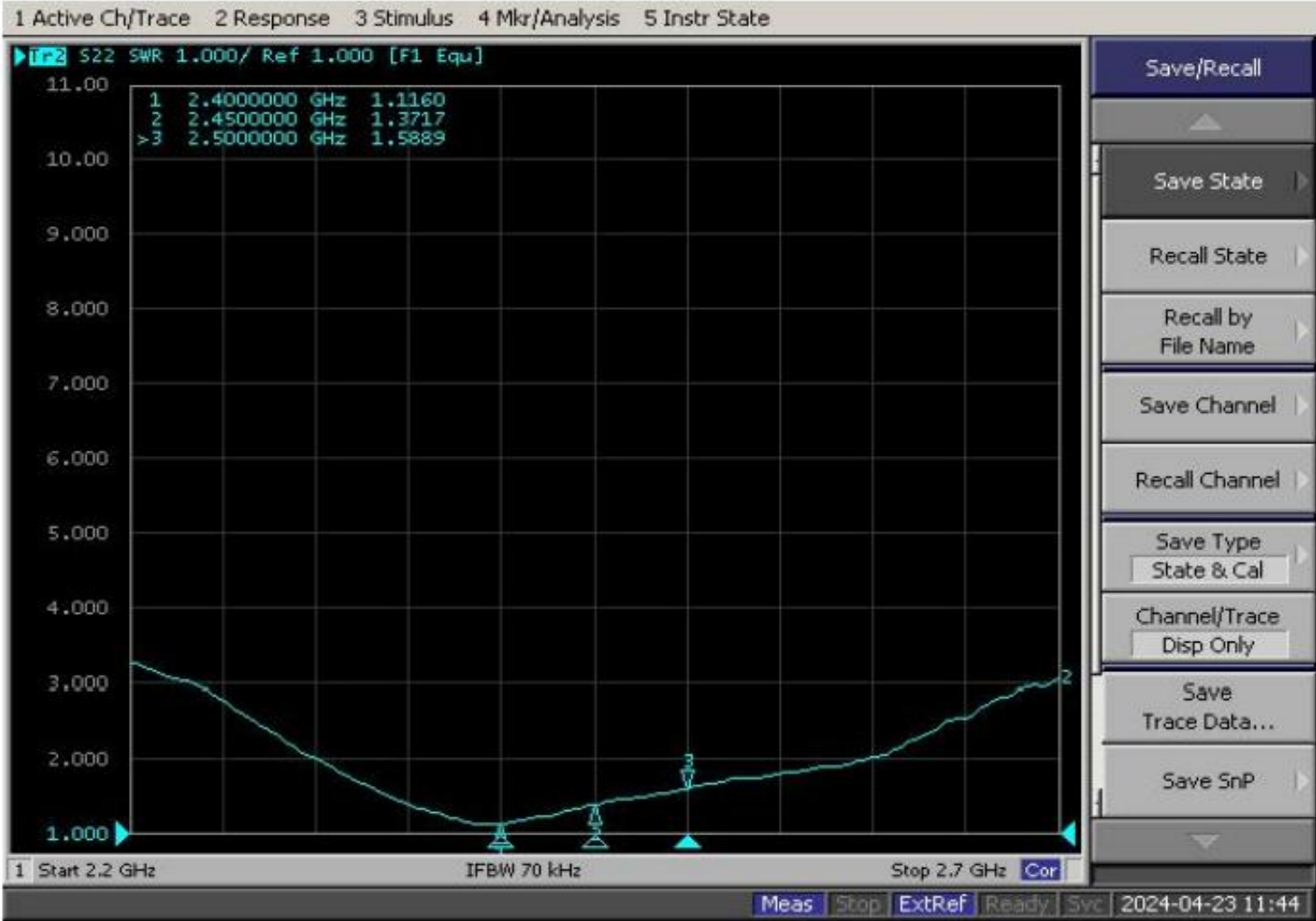
1.1 Darkroom test picture



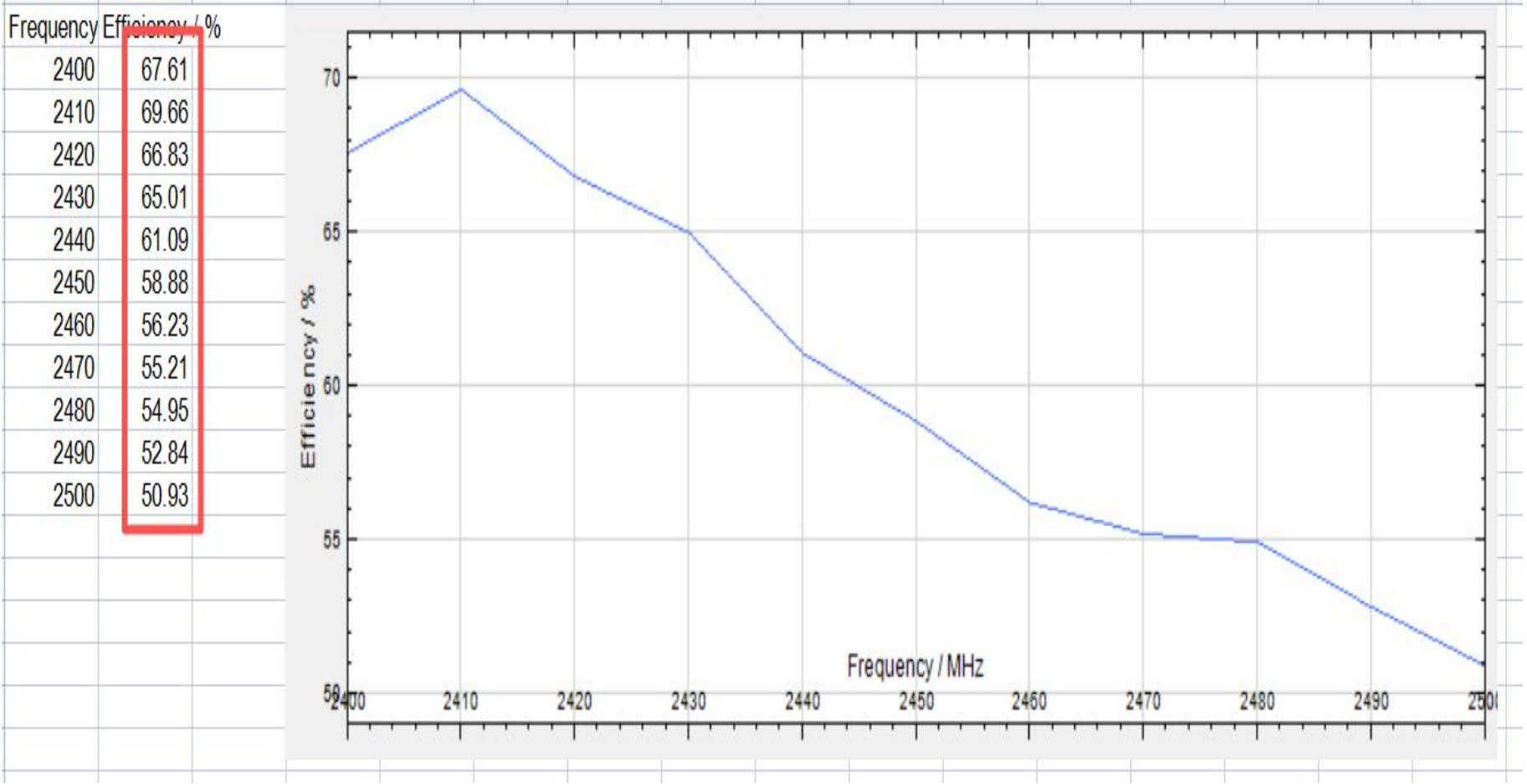
2.1 Product picture



3.1 S-Parameters(2 . 4 G VSWR)

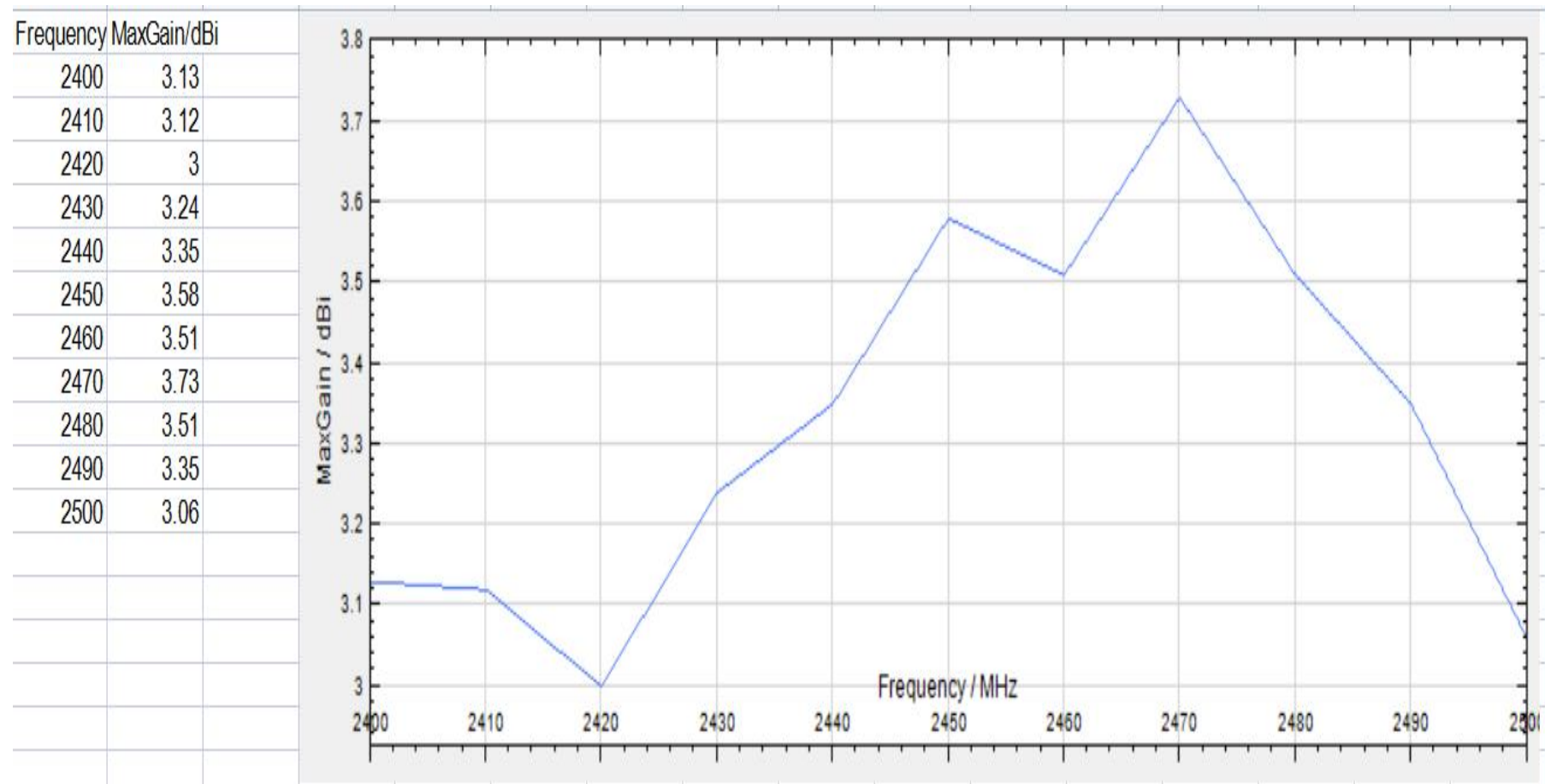


4.1 Antenna Efficiency 2.4G



效率影响天线的灵敏度，增益值越高天线穿透障碍后的保留信号强度越好

4.2 Antenna PeakGain(2.4G)

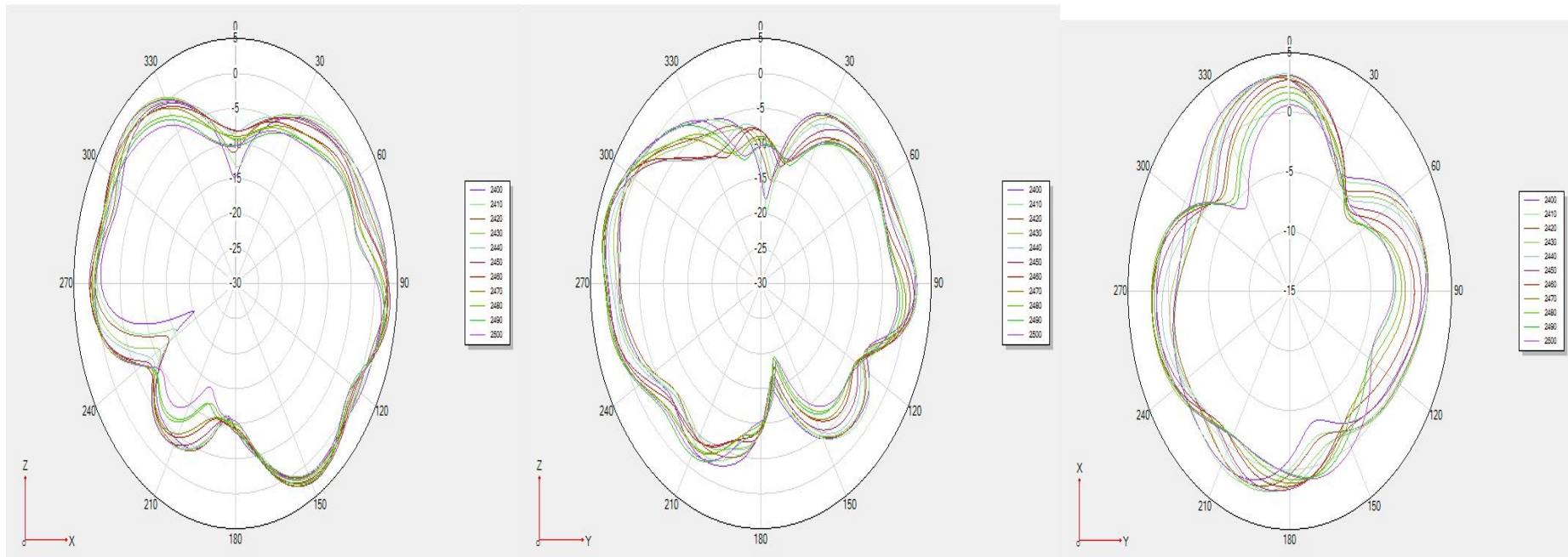


Antenna Gain

效率影响天线的灵敏度，增益值越高天线穿透障碍后的保留信号强度越好

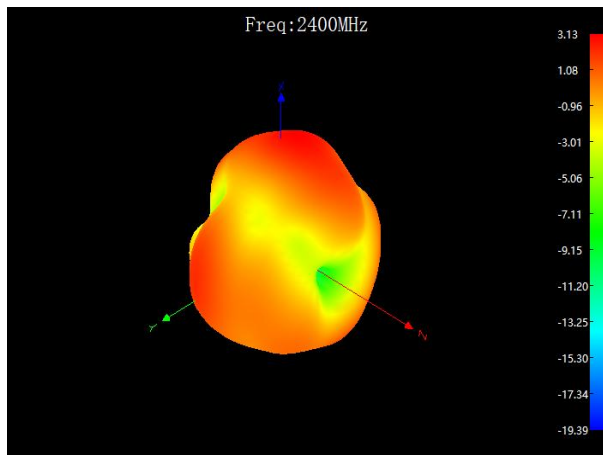
5.1 Radiation patterns—2D (2.4G)

2400MHz ---2D

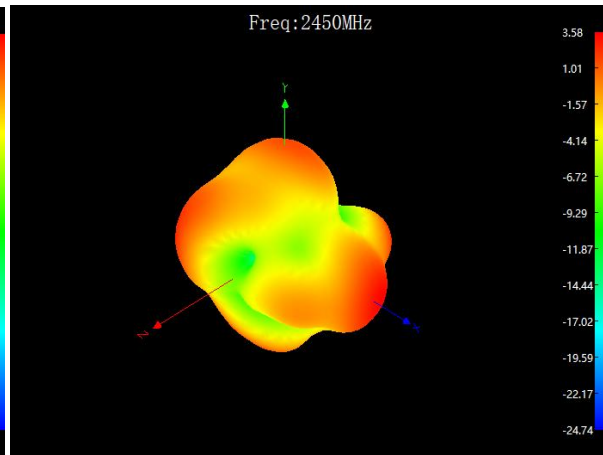


6.1 Radiation patterns—3D(2.4G)

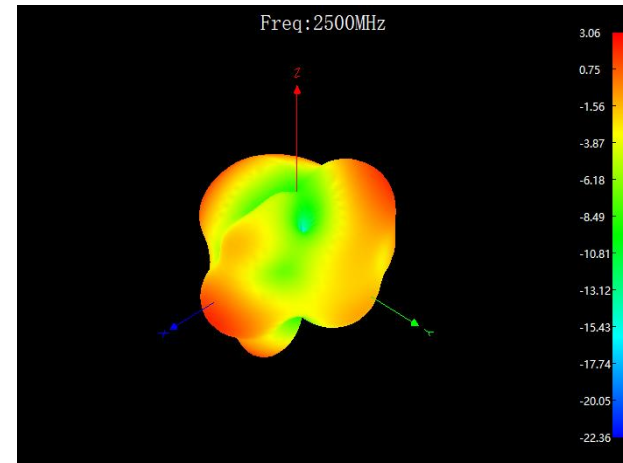
2400MHz



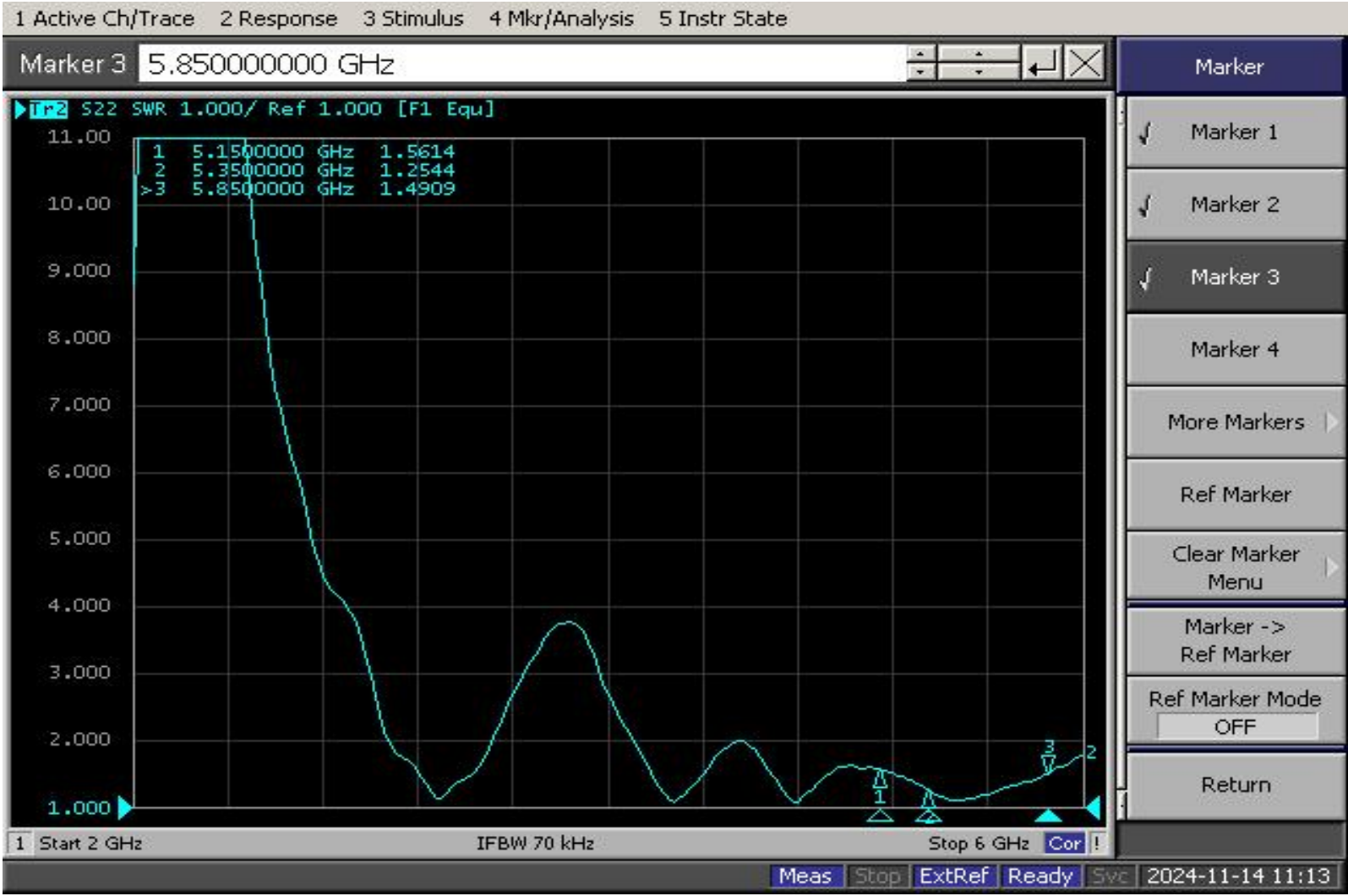
2450MHz



2500MHz

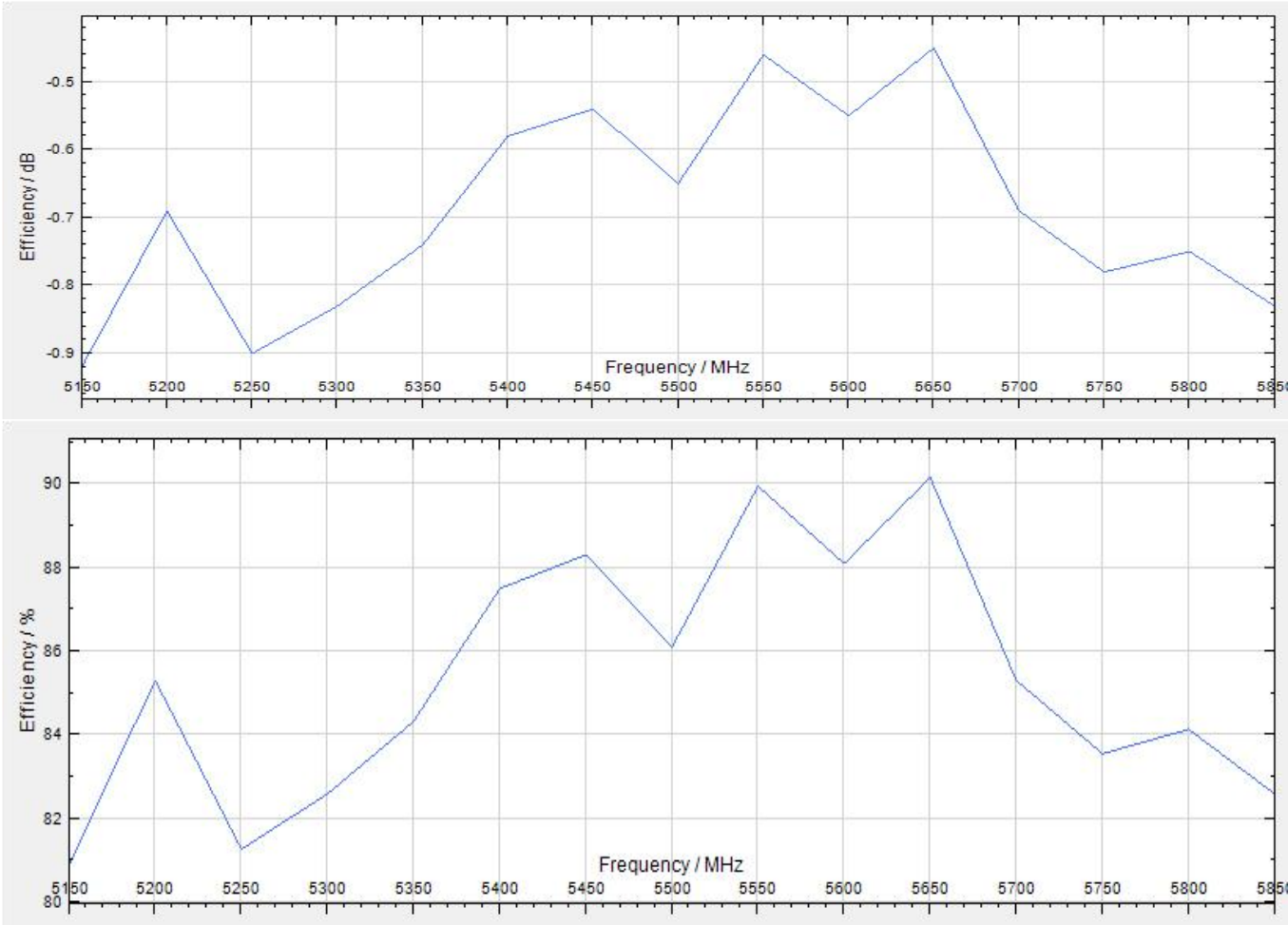


3.1 S-Parameters(5.8 G VSWR)



4.1 Antenna Efficiency 5.8G

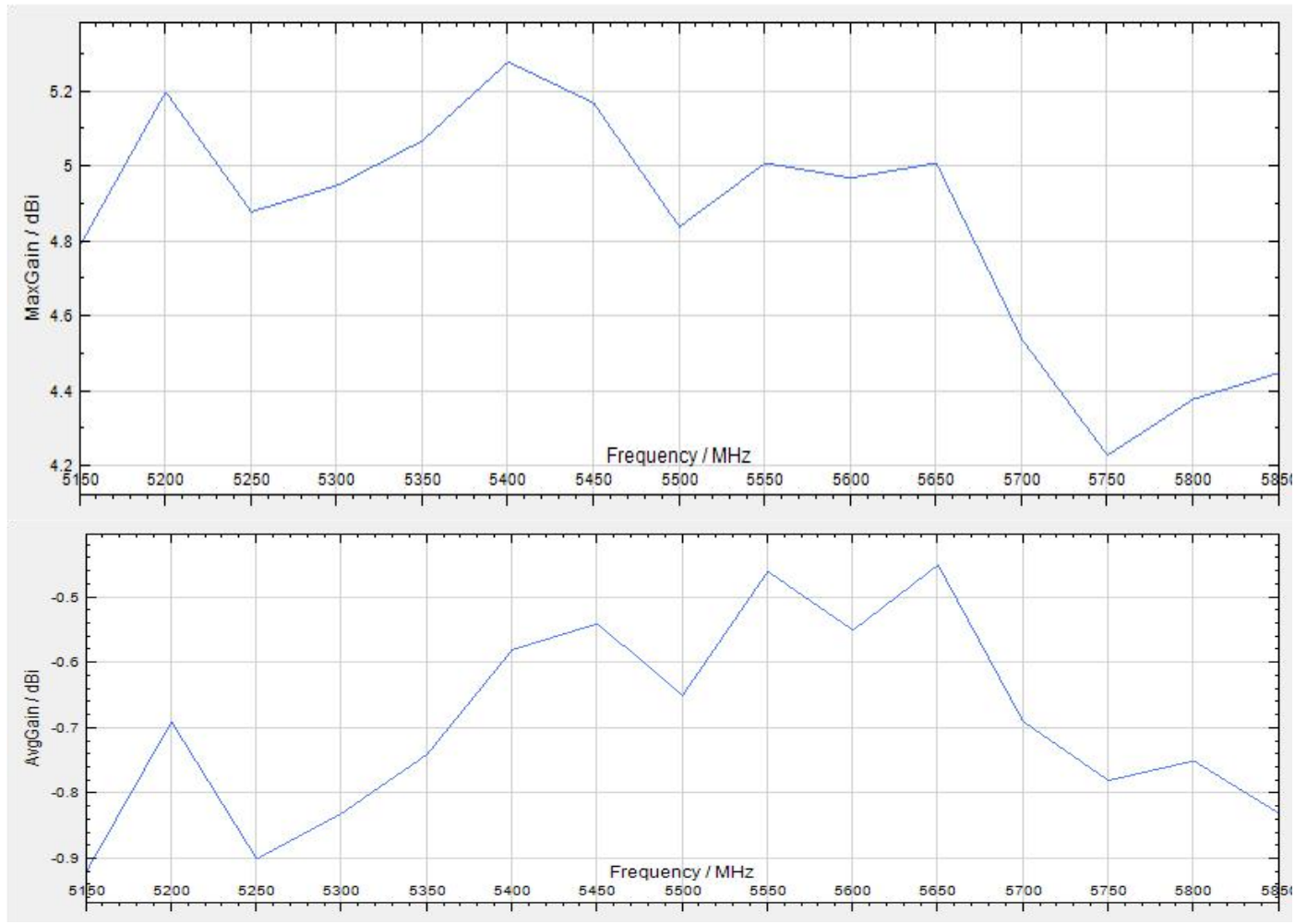
A	B	C	D
Frequency	Efficiency	Efficiency / %	
5150	-0.92	80.91	
5200	-0.69	85.31	
5250	-0.9	81.28	
5300	-0.83	82.6	
5350	-0.74	84.33	
5400	-0.58	87.5	
5450	-0.54	88.31	
5500	-0.65	86.1	
5550	-0.46	89.95	
5600	-0.55	88.1	
5650	-0.45	90.16	
5700	-0.69	85.31	
5750	-0.78	83.56	
5800	-0.75	84.14	
5850	-0.83	82.6	



效率影响天线的灵敏度，增益值越高天线穿透障碍后的保留信号强度越好

4.1 Antenna Gain 5.8G

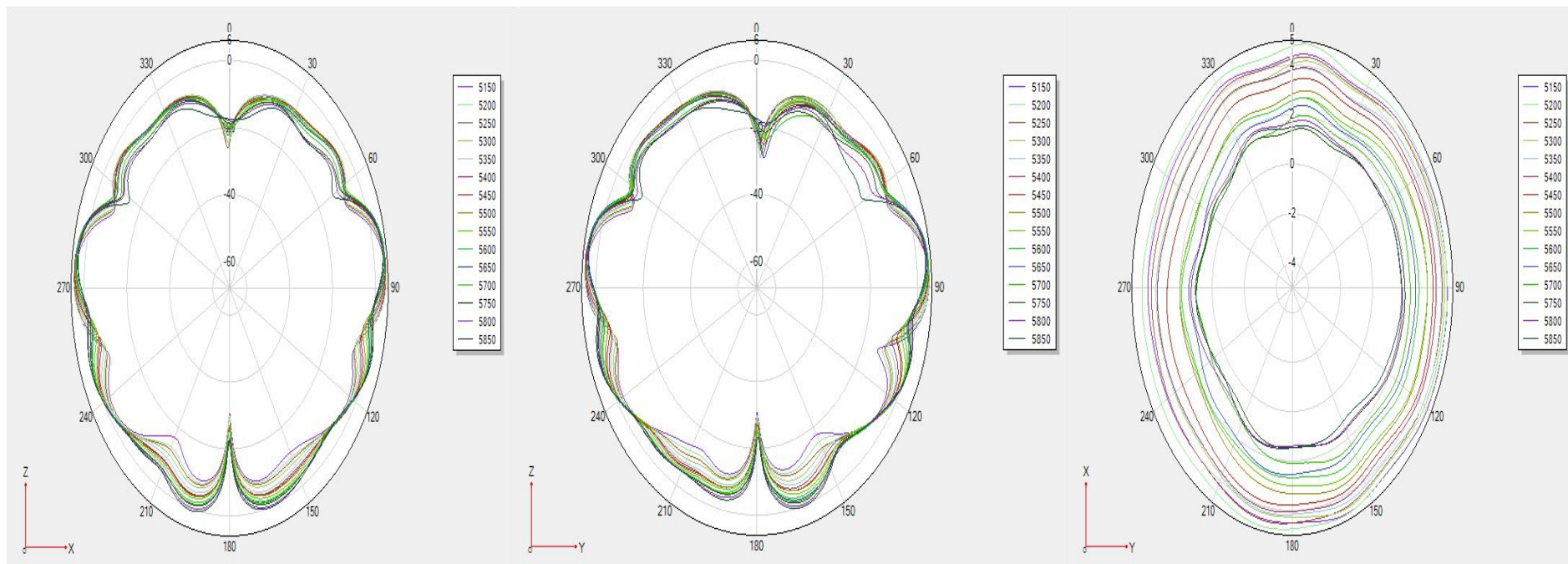
A	B	C
Frequency	MaxGain/d	AvgGain/dBi
5150	4.79	-0.92
5200	5.2	-0.69
5250	4.88	-0.9
5300	4.95	-0.83
5350	5.07	-0.74
5400	5.28	-0.58
5450	5.17	-0.54
5500	4.84	-0.65
5550	5.01	-0.46
5600	4.97	-0.55
5650	5.01	-0.45
5700	4.54	-0.69
5750	4.23	-0.78
5800	4.38	-0.75
5850	4.45	-0.83



效率影响天线的灵敏度，增益值越高天线穿透障碍后的保留信号强度越好

5.1 Radiation patterns—2D (5.8G)

5800MHz ---2D



6.1 Radiation patterns—3D(5.8G)

5150MHz

5350MHz

5850MHz

