

Antenna report

2. 4Ghz Team

V2. 0

2023. 02. 17

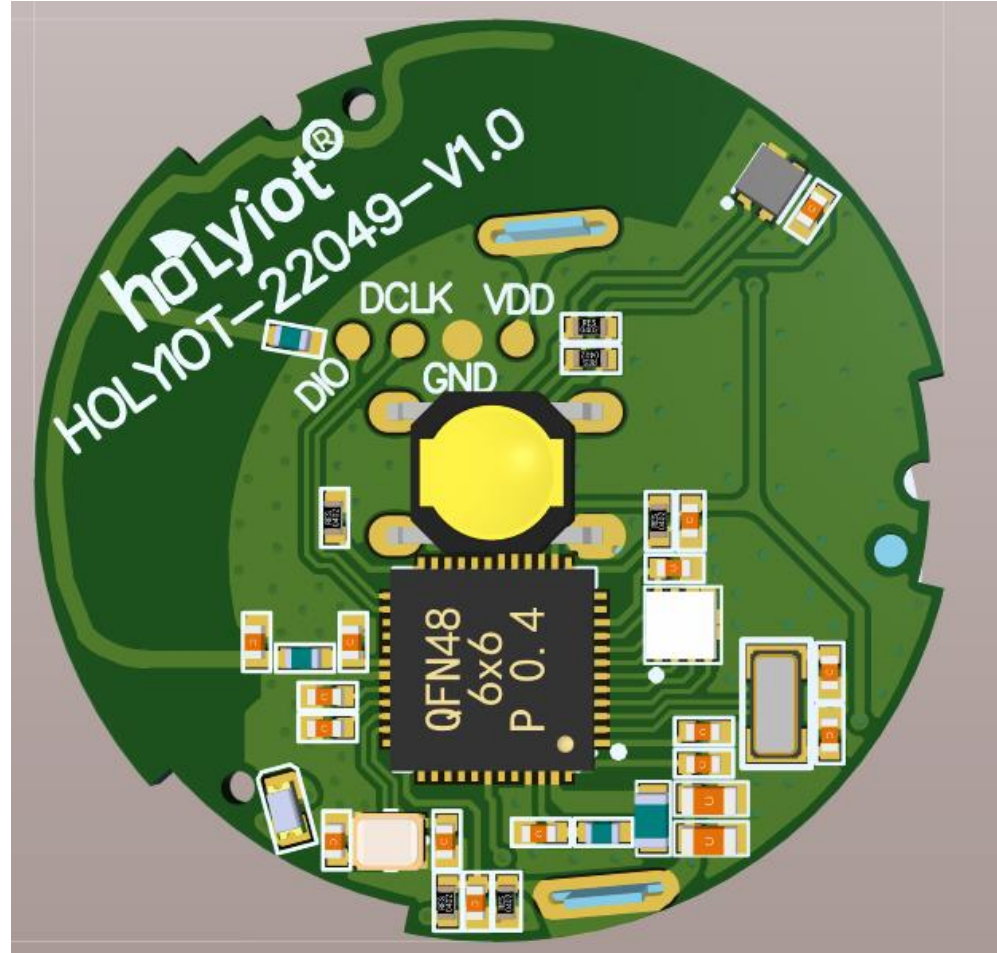
Item

- Version
- Performance
- Adjust compoments
- Tune

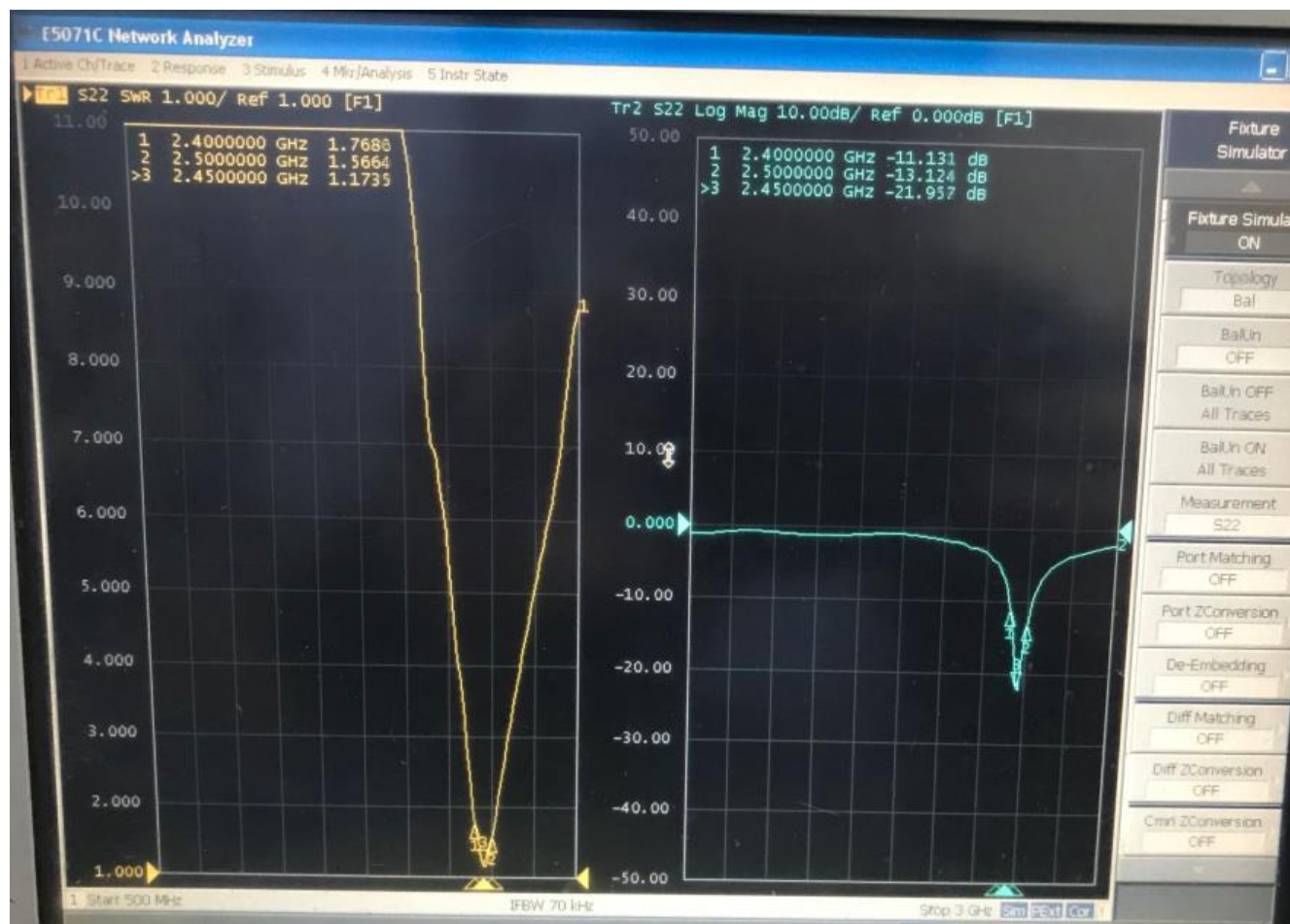
Version

Version	Date	Decr iptions
V2. 0	2023. 02. 17	Debug report

Adjust material



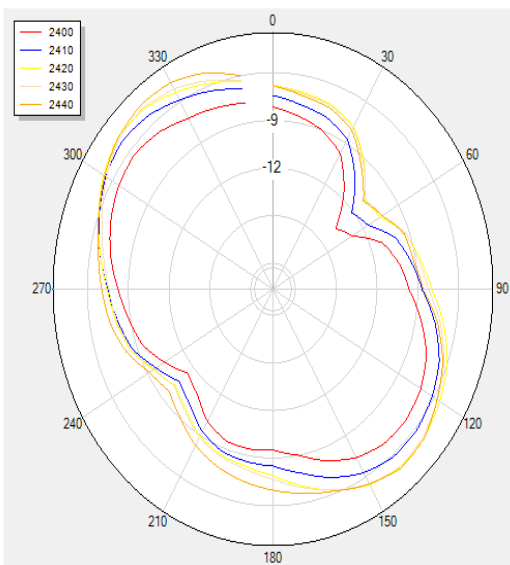
Gain, Efficiency, Frequency



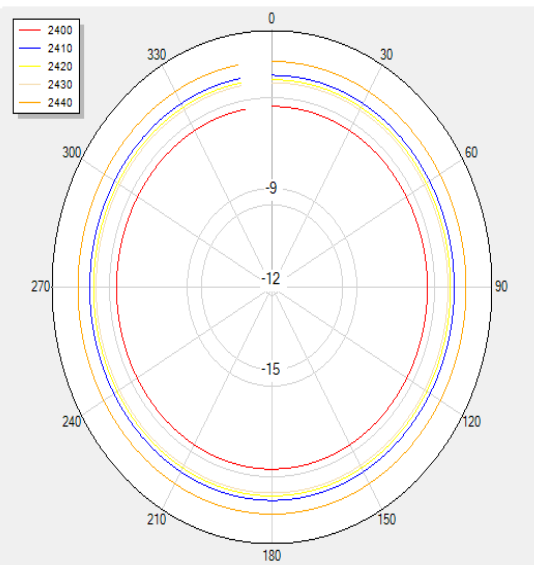
Gain&Efficiency				
frequency	gain	mingain	efficiency	efficiency
频率(MHz)	增益(dBi)	最小增益	效率(dBi)	效率(%)
2400	5.9	-20.34	-2.64	54.42
2410	6.25	-19.8	-2.49	56.35
2420	6.16	-18.26	-2.46	56.74
2430	5.65	-16.51	-2.53	55.88
2440	5.33	-15.43	-2.55	55.62
2450	5.04	-15.25	-2.5	56.28
2460	4.78	-15.06	-2.42	57.25
2470	4.55	-16.17	-2.36	58.04
2480	4.8	-17.14	-2.3	58.82
2490	4.94	-19.08	-2.33	58.50
2500	5.1	-16.19	-2.35	58.22

Directions, Apple Diagram

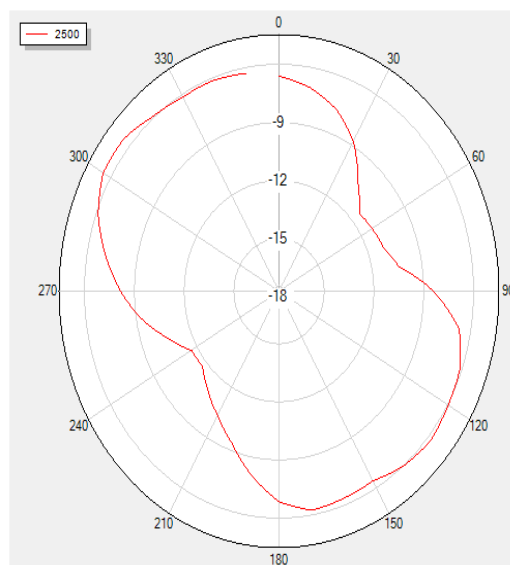
H Theta=90



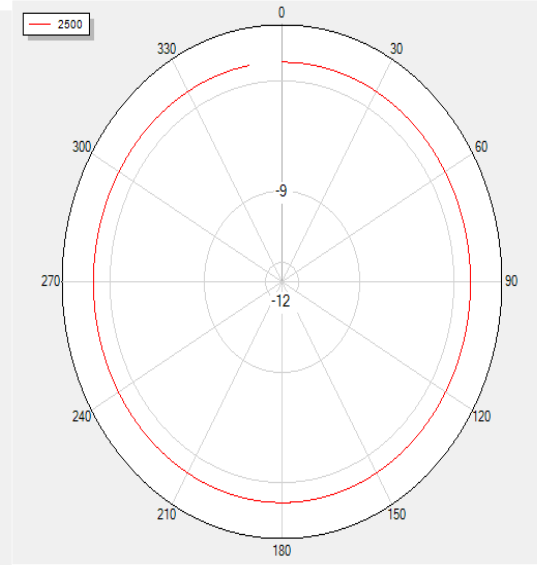
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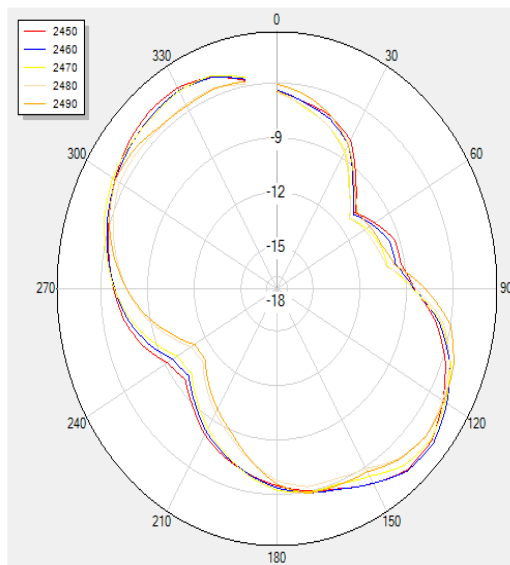
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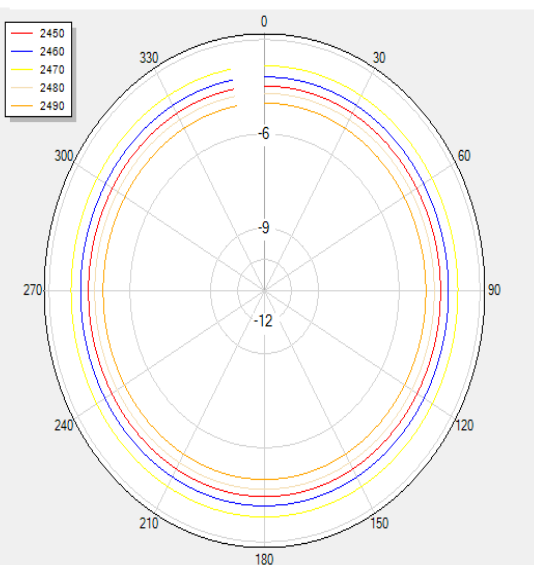
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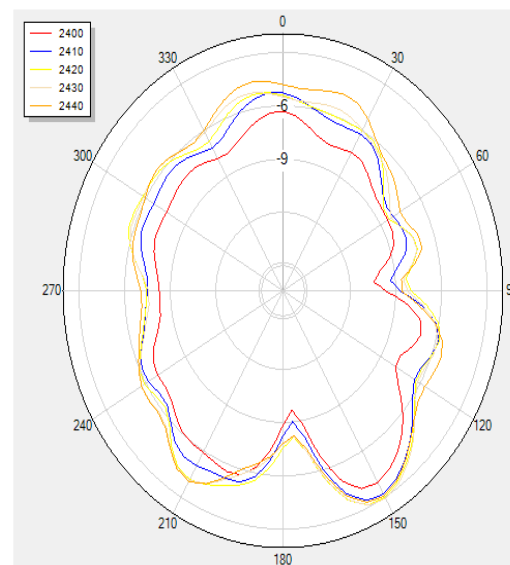
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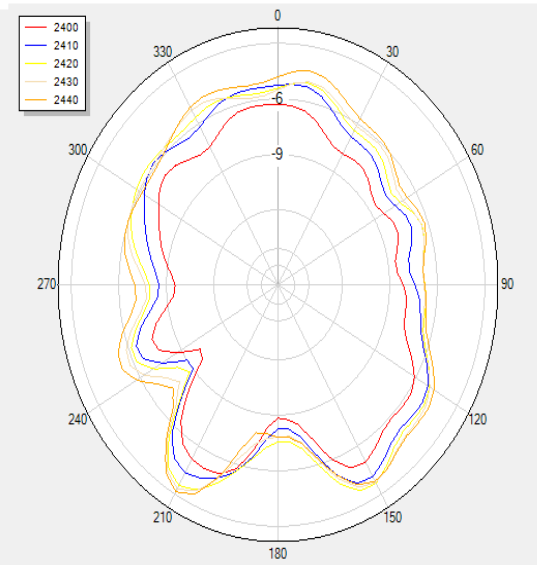
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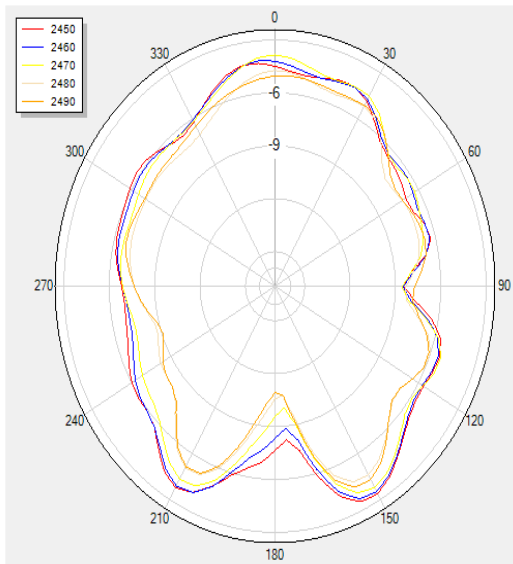
V Phi=90



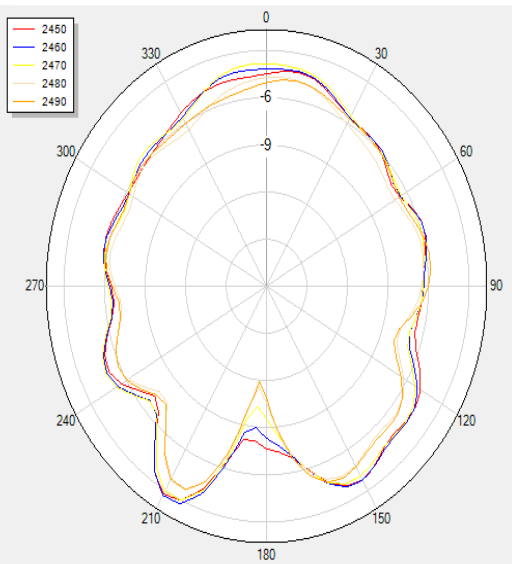
V Phi=0



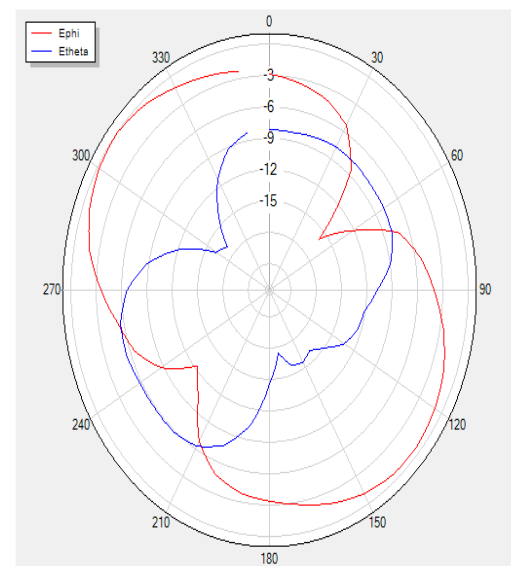
V $\Phi=90$



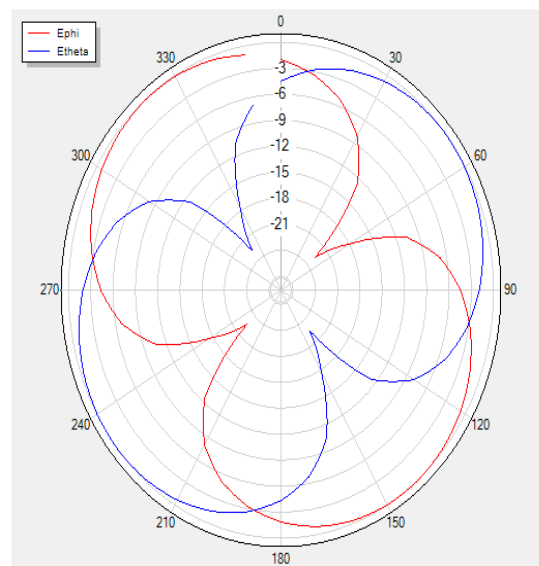
V $\Phi=0$



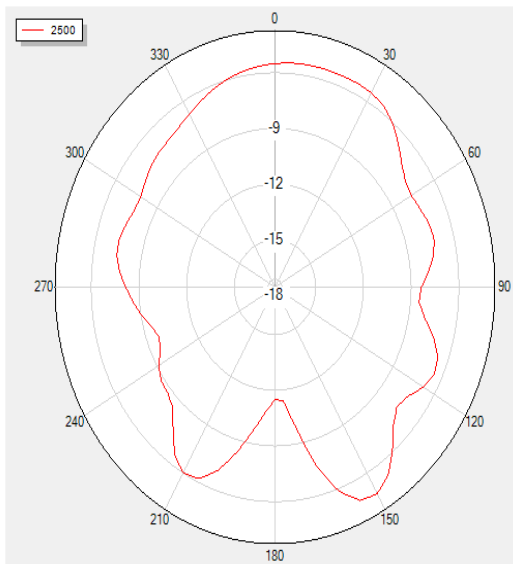
H $\Theta=90$ freq=2400MHz



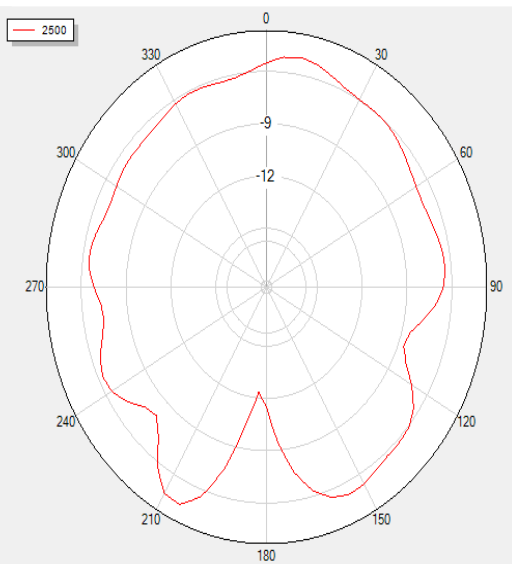
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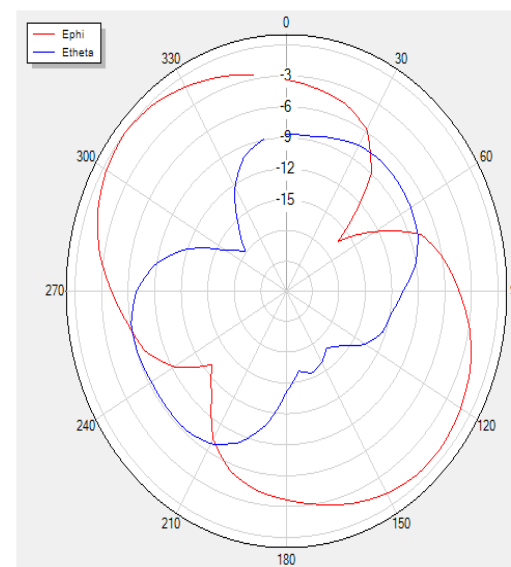
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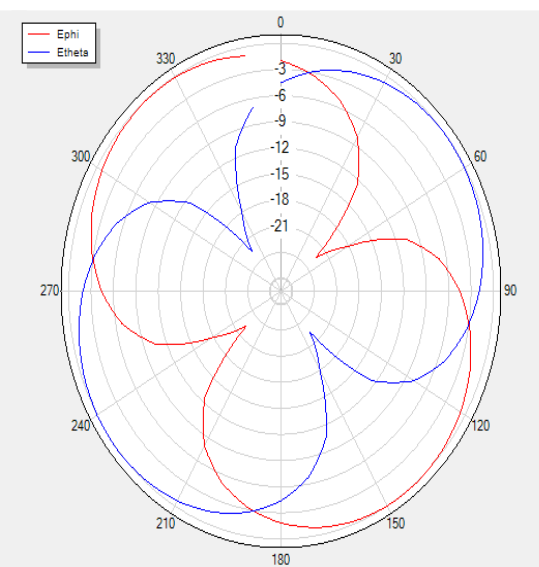
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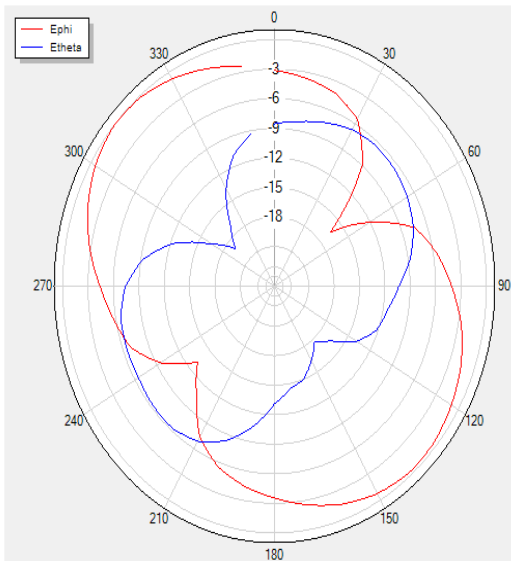
H $\Theta=90$ freq=2410MHz



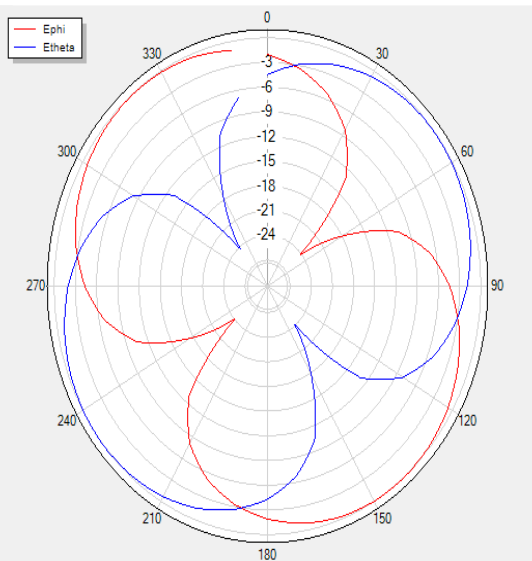
H $\Theta=0$ freq=2410MHz



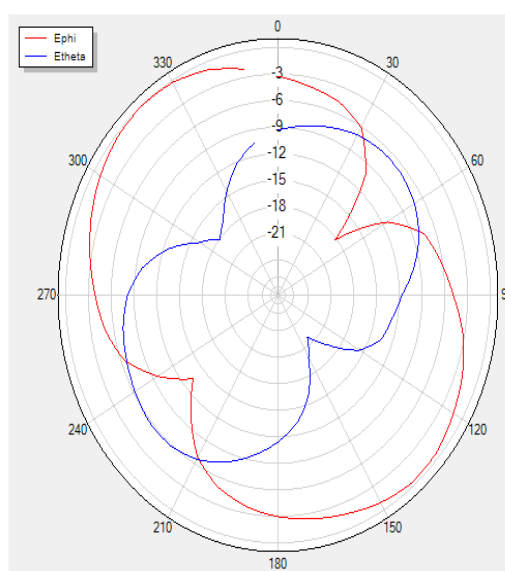
H Theta=90 freq=2420MHz



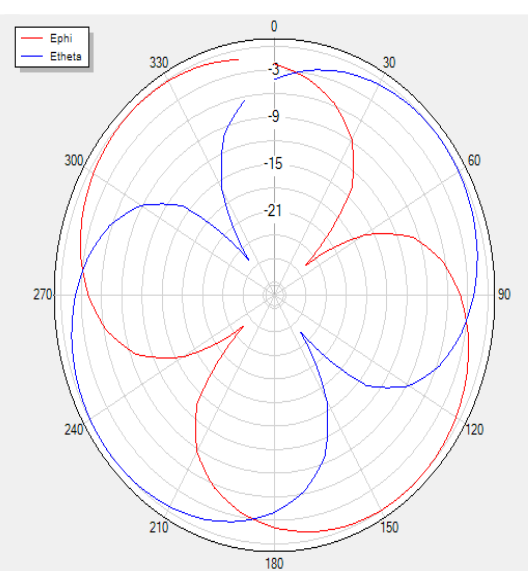
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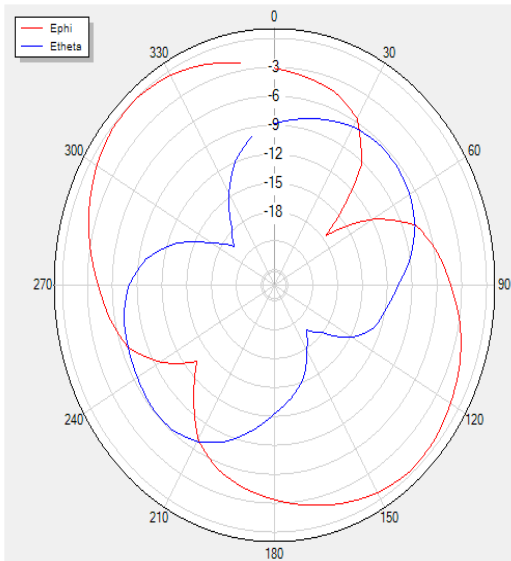
H Theta=90 freq=2440MHz



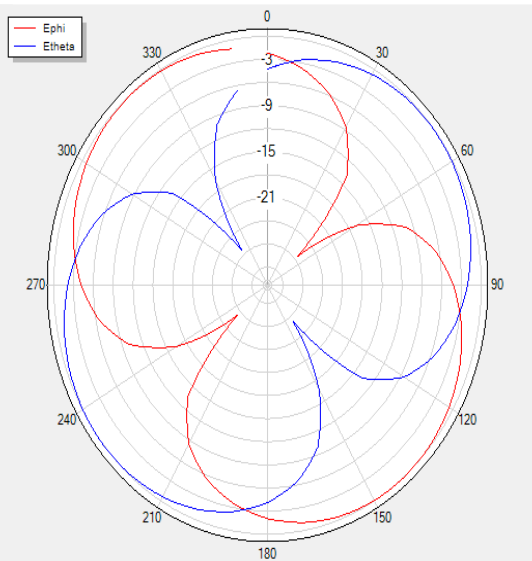
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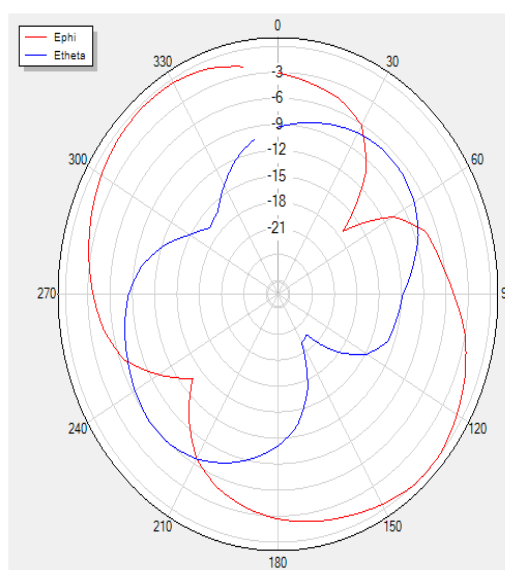
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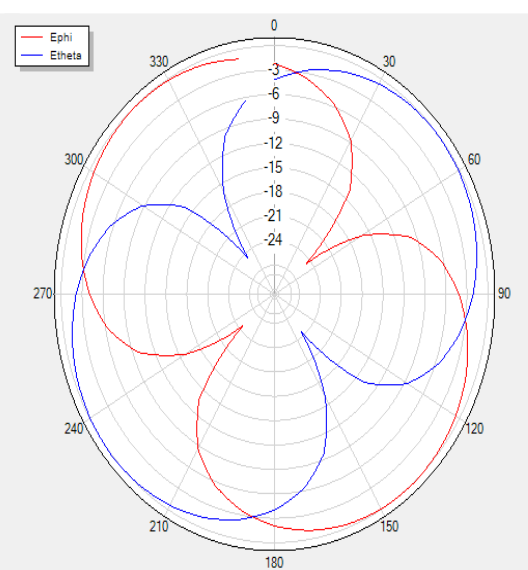
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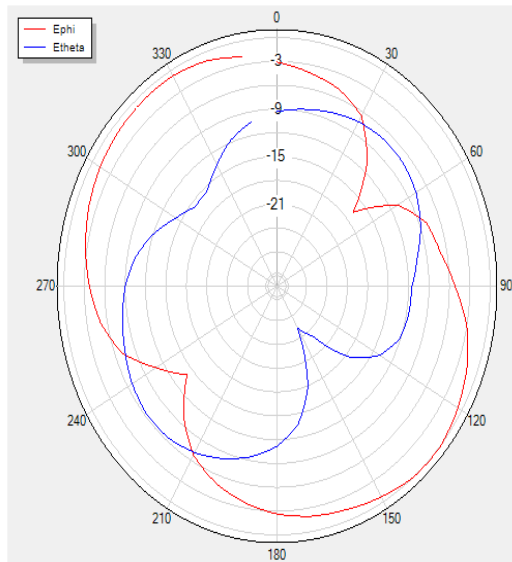
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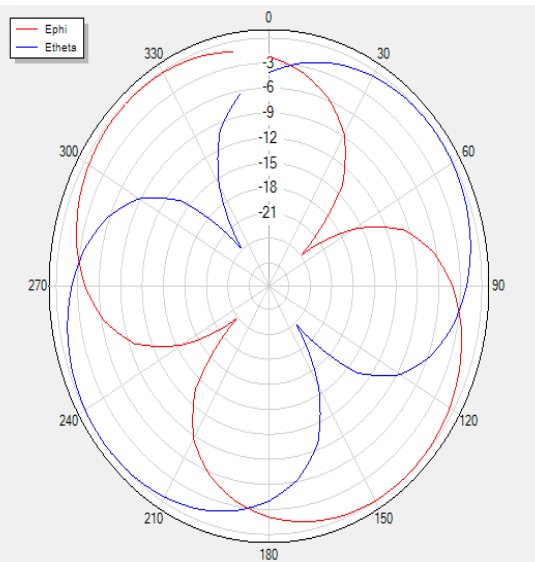
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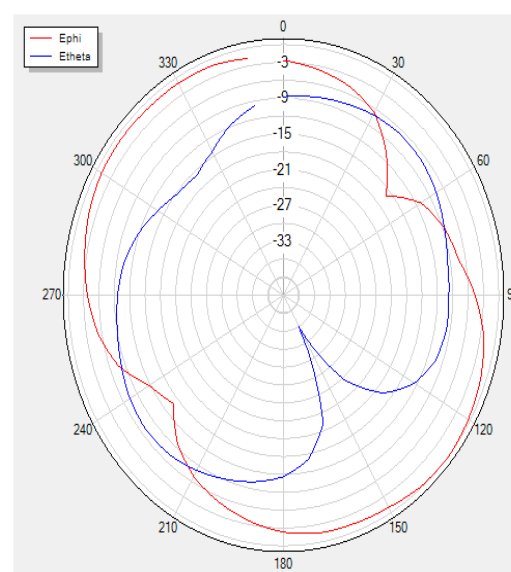
H Theta=90 freq=2460MHz



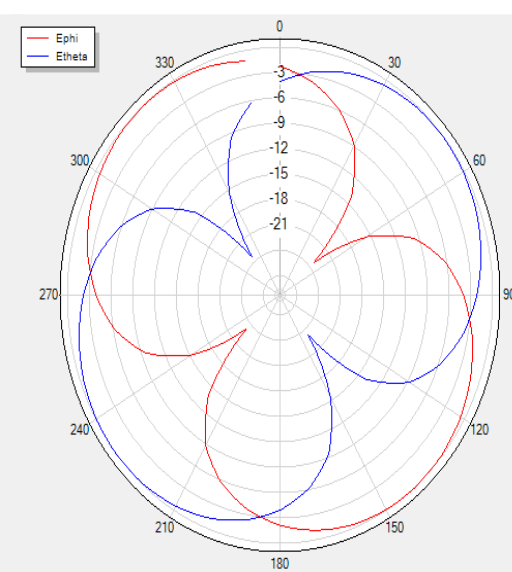
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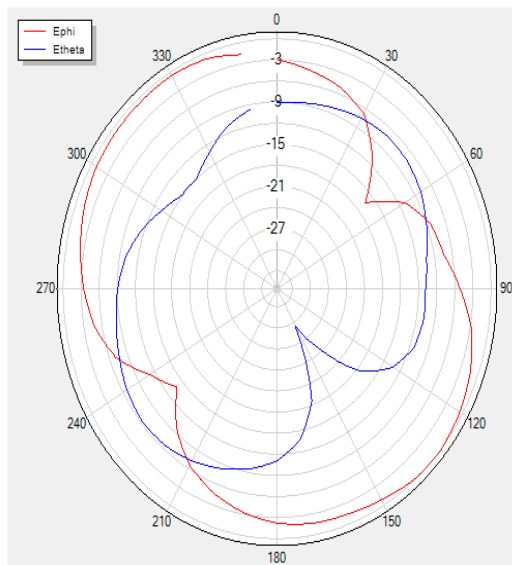
H Theta=90 freq=2480MHz



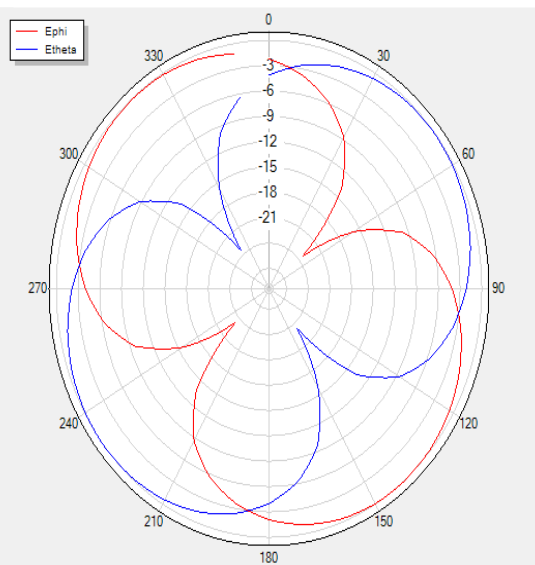
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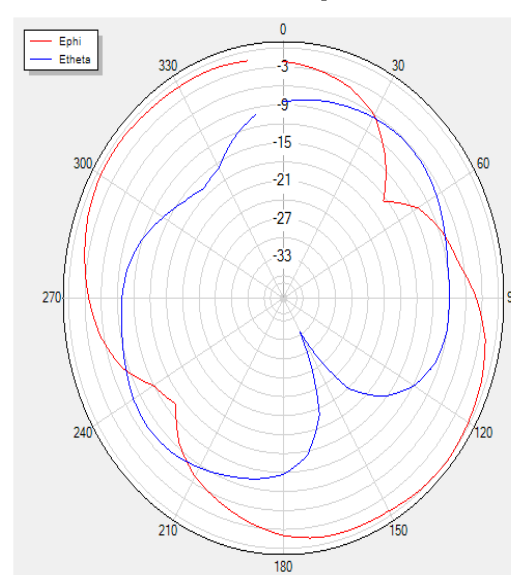
H Theta=90 freq=2470MHz



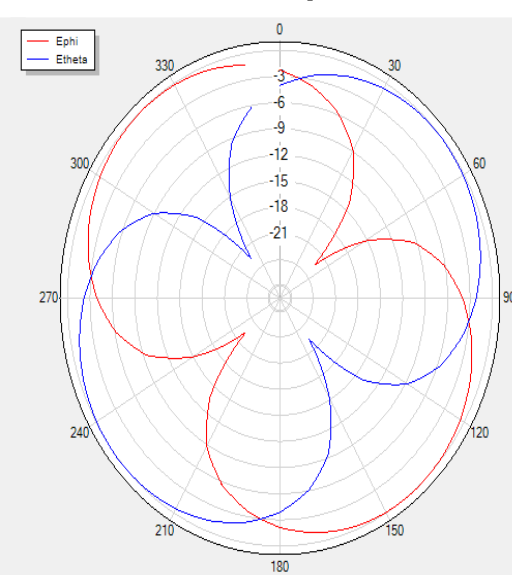
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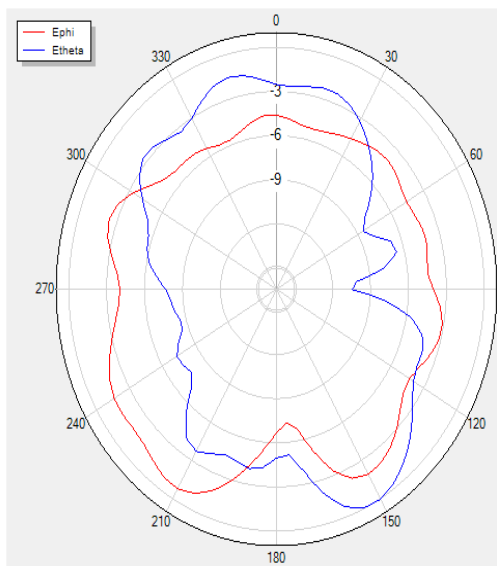
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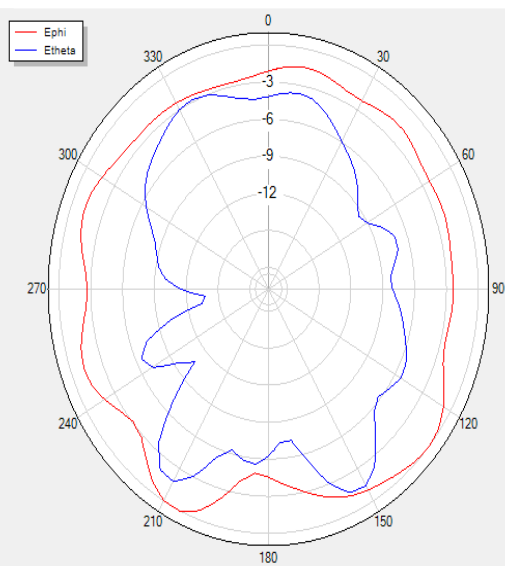
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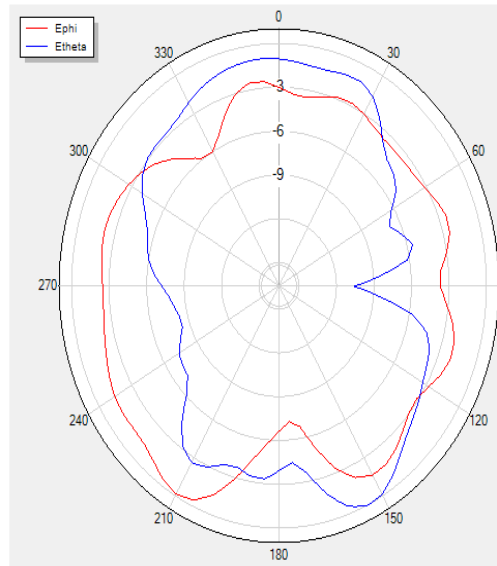
V $\Phi=90$ freq=2430MHz



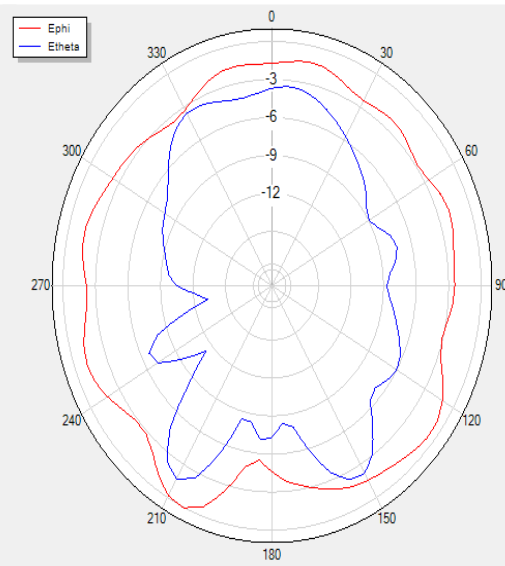
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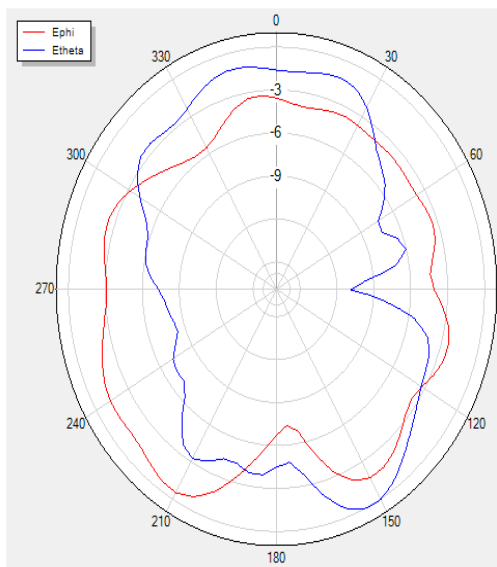
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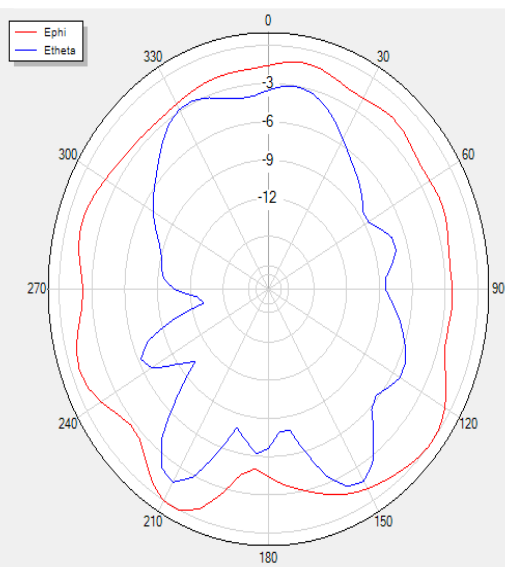
V $\Phi=0$ freq=2450MHz



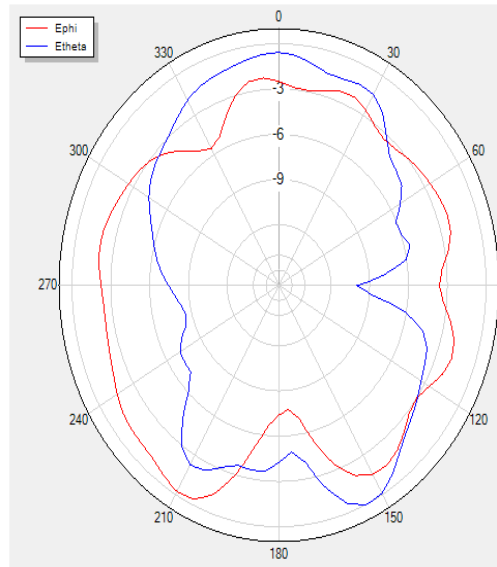
V $\Phi=90$ freq=2440MHz



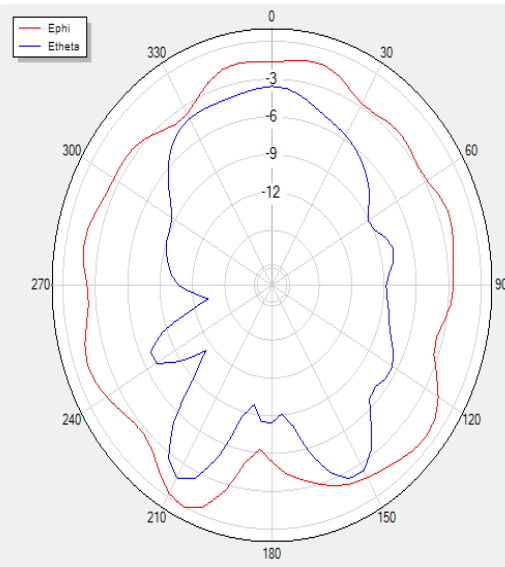
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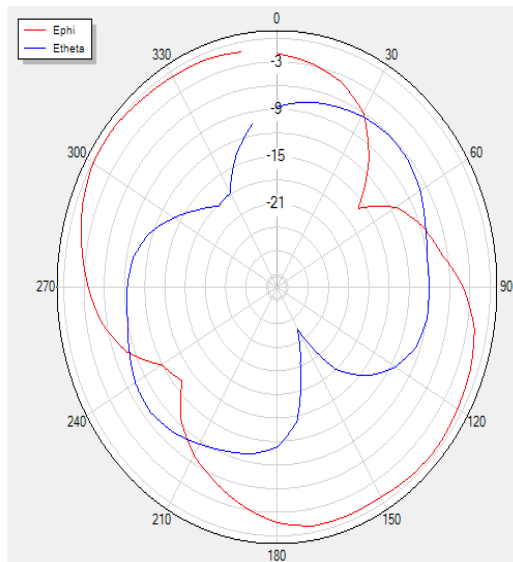
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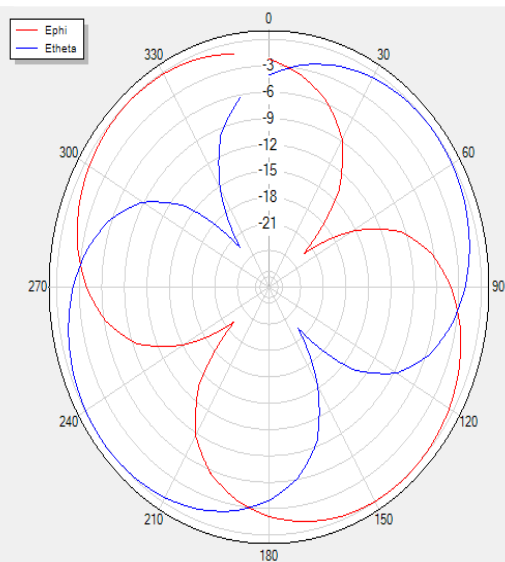
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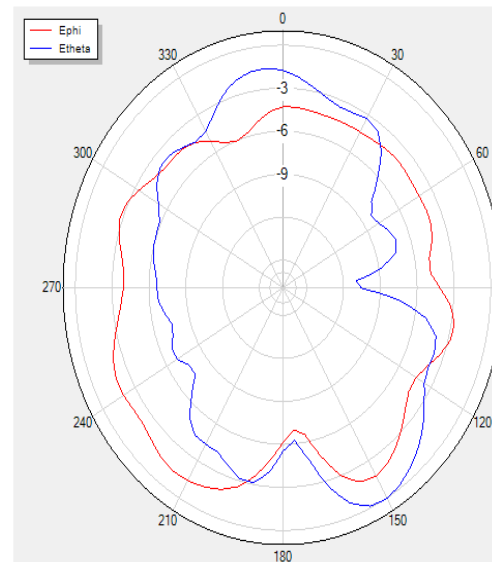
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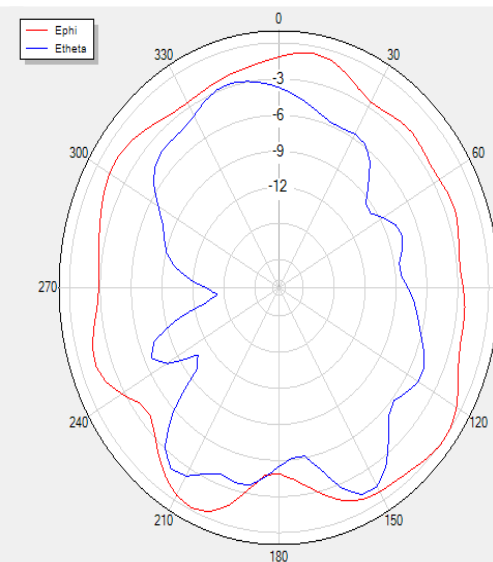
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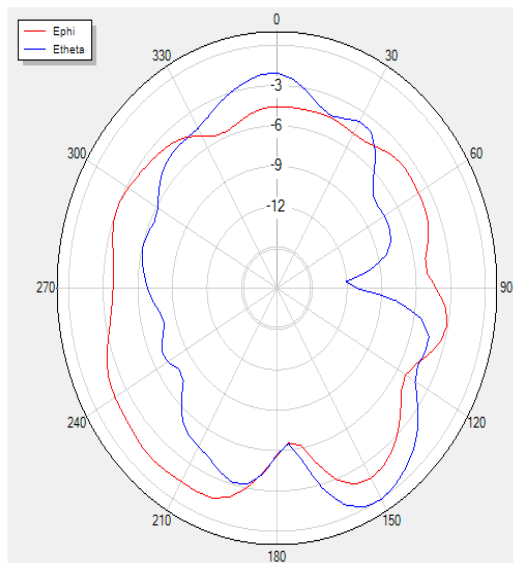
V Phi=90 freq=2410MHz



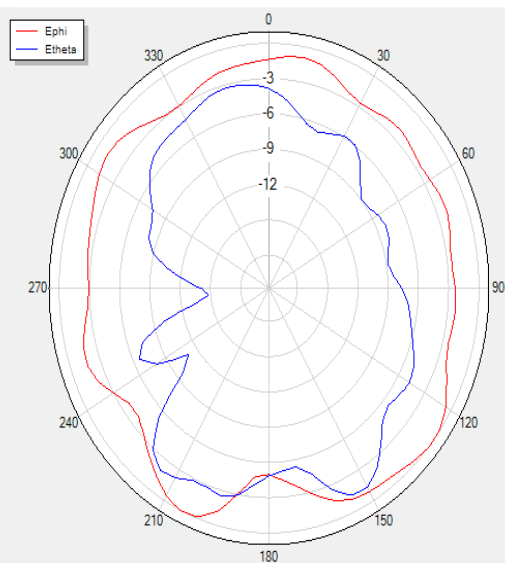
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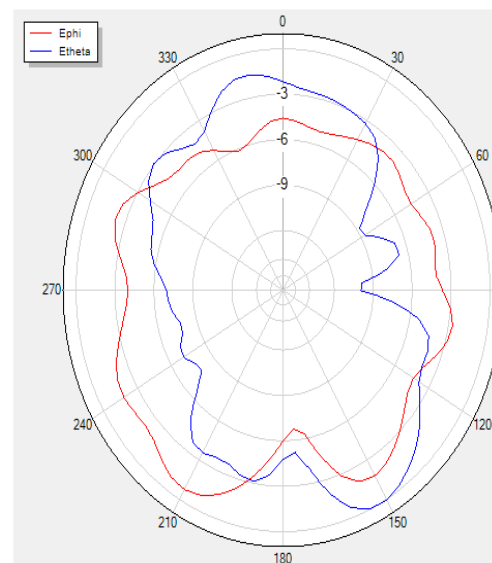
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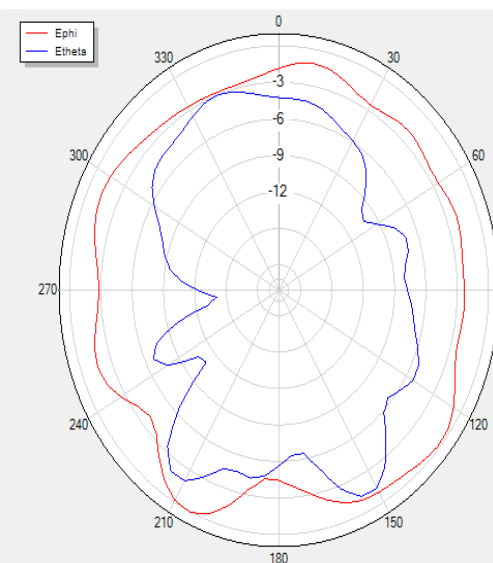
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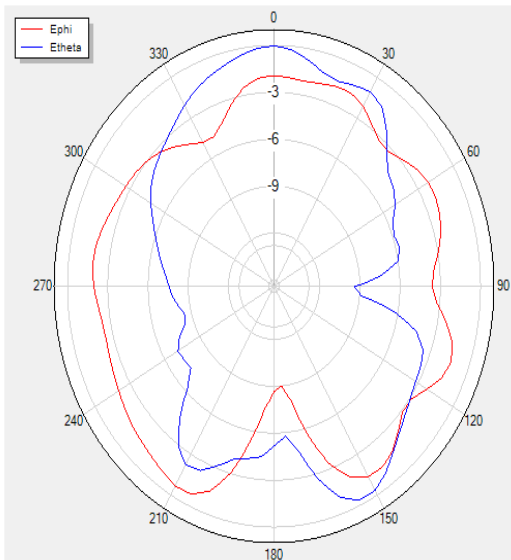
V Phi=90 freq=2420MHz



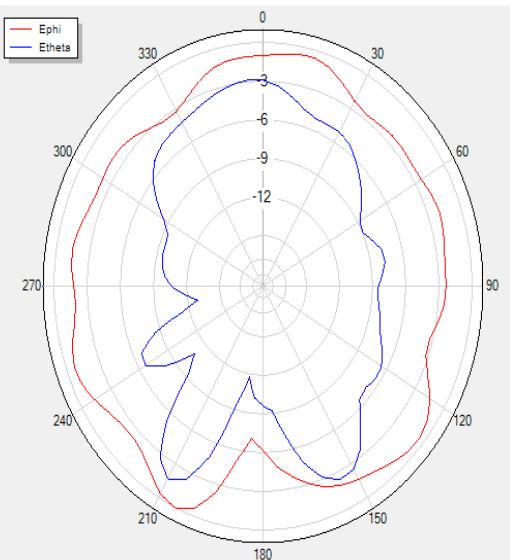
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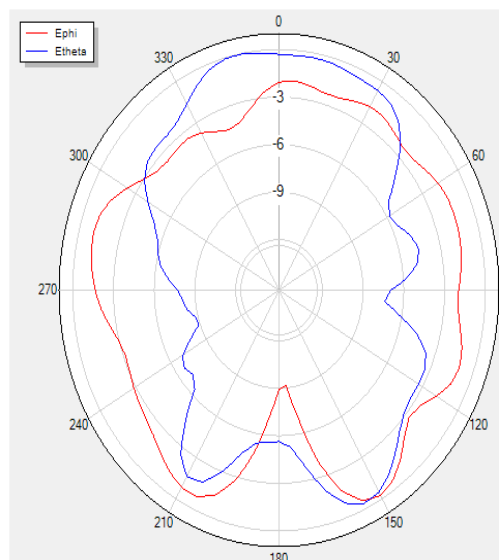
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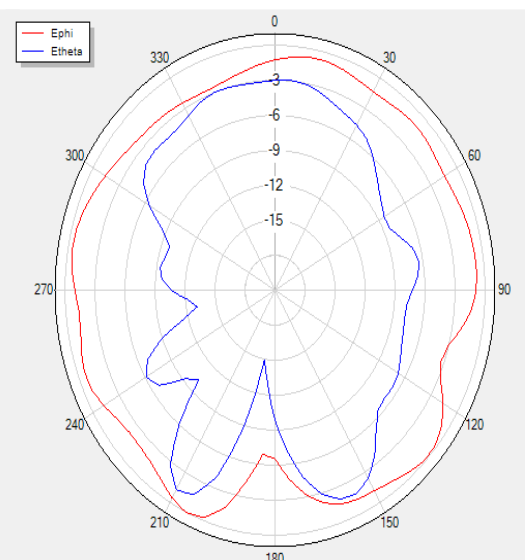
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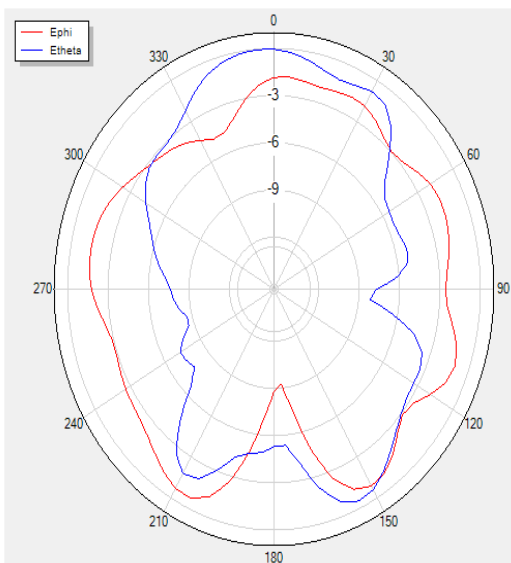
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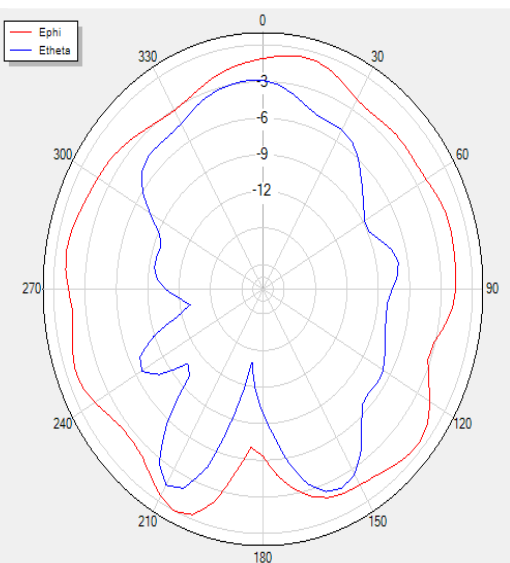
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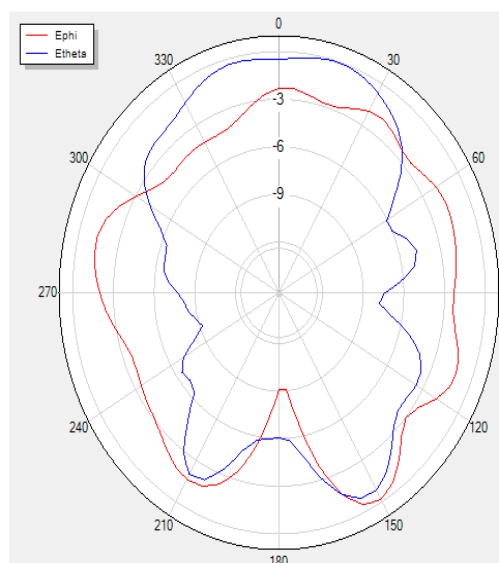
V Phi=90 freq=2480MHz



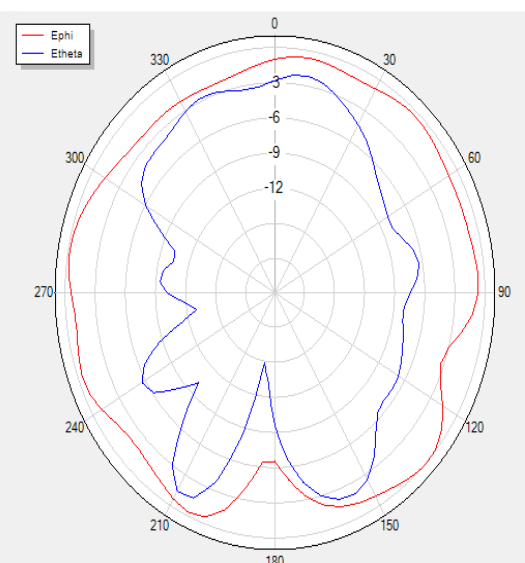
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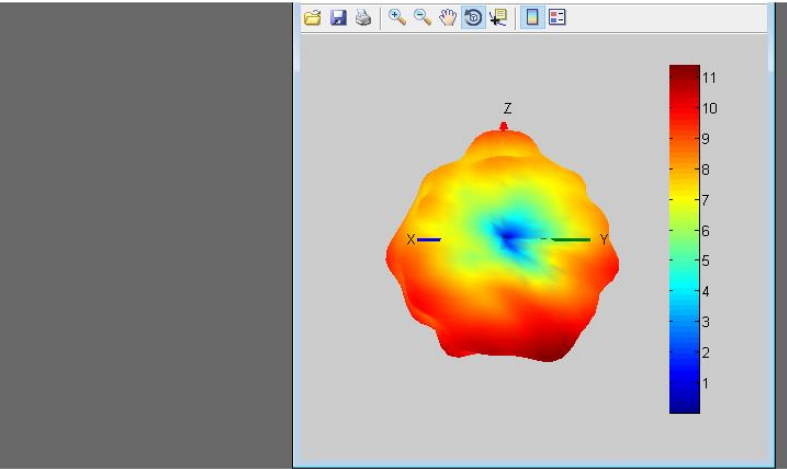
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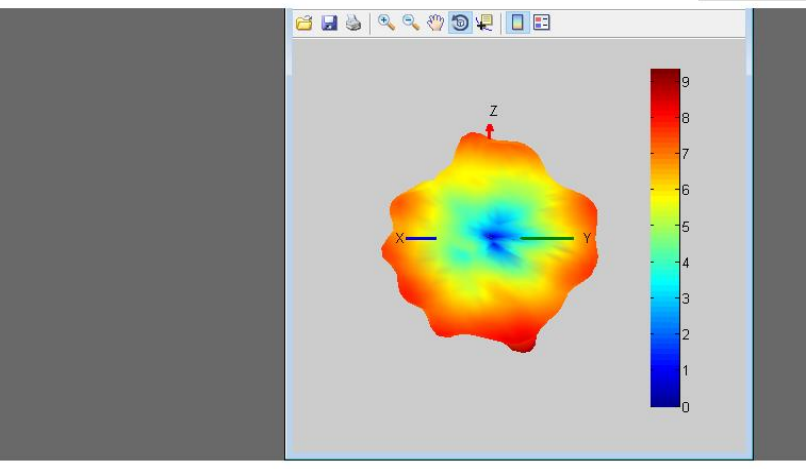
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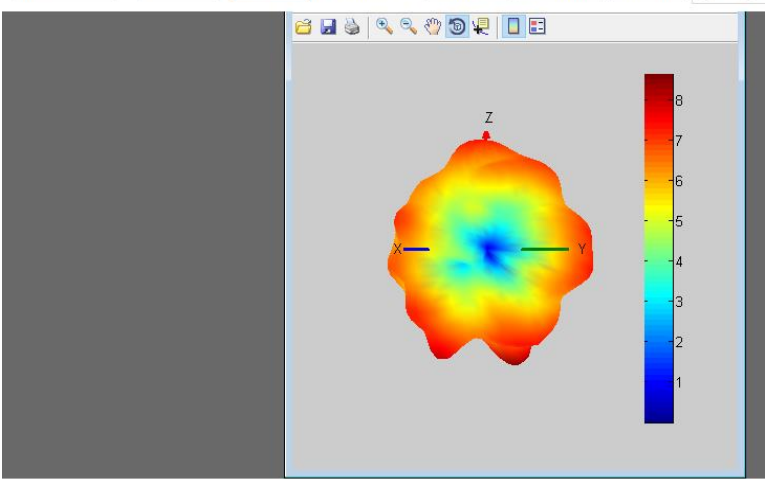
2400 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



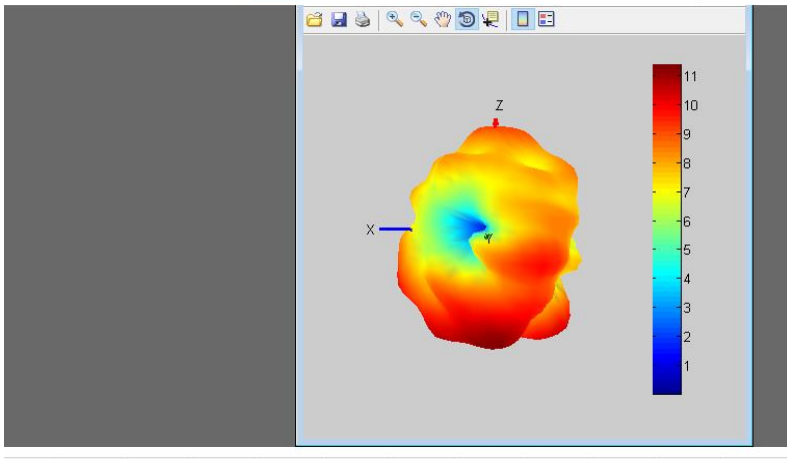
2450 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



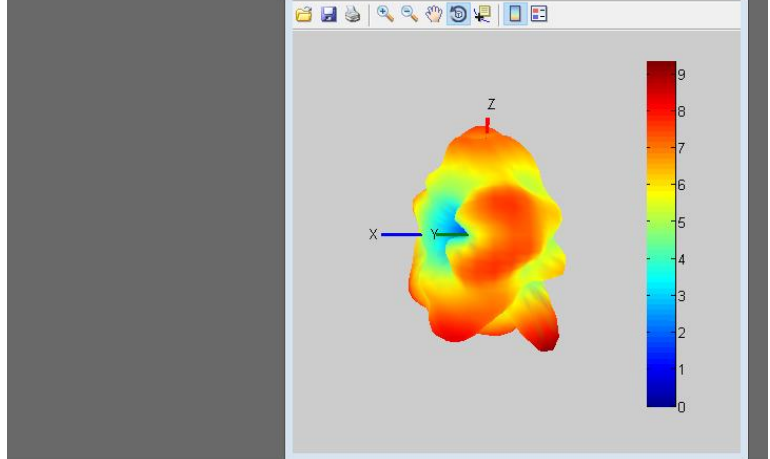
2480 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



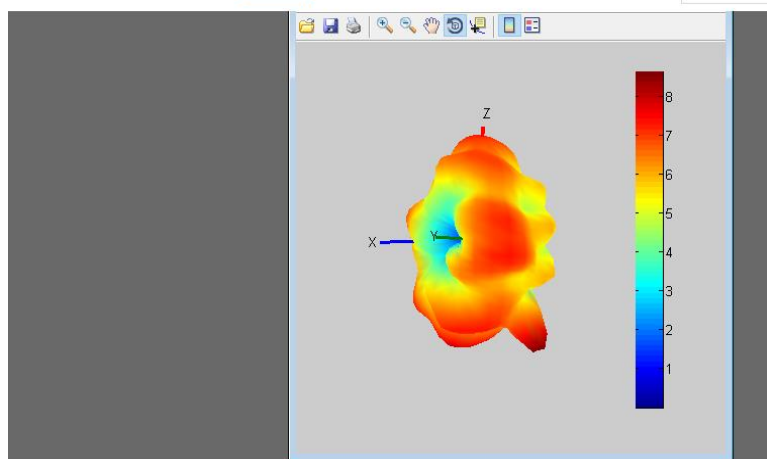
y 2400 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



2450 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



y 2480 Et Show3D Antenna Type Normal Selectgain gain - effi-1 rotated 90 -90



Conclusion

1. RF Performance is OK.
2. Refer to the manufacturing , future , please make sure the firmware and hardware be the same