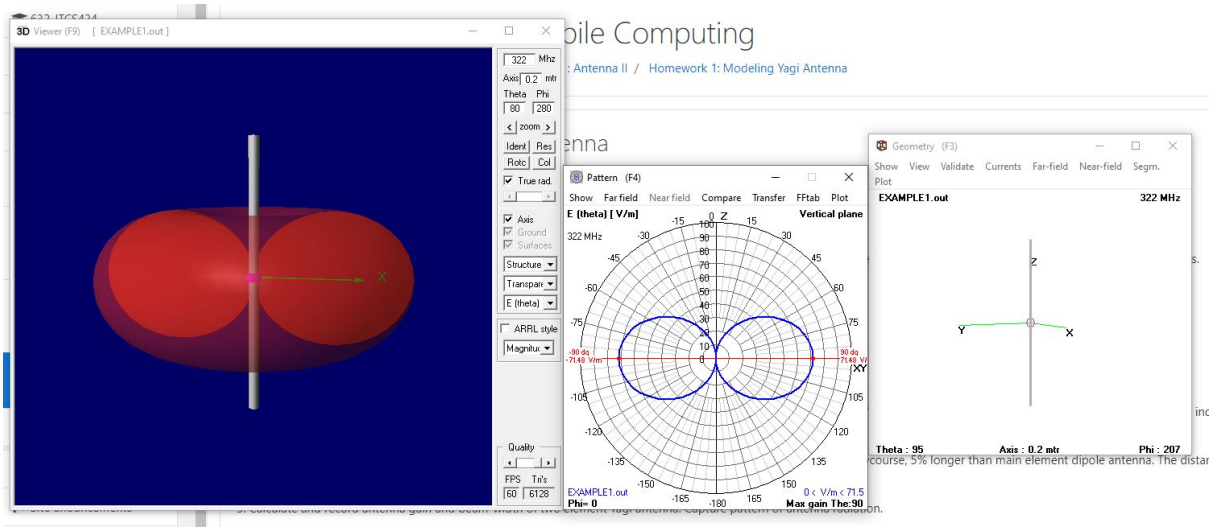
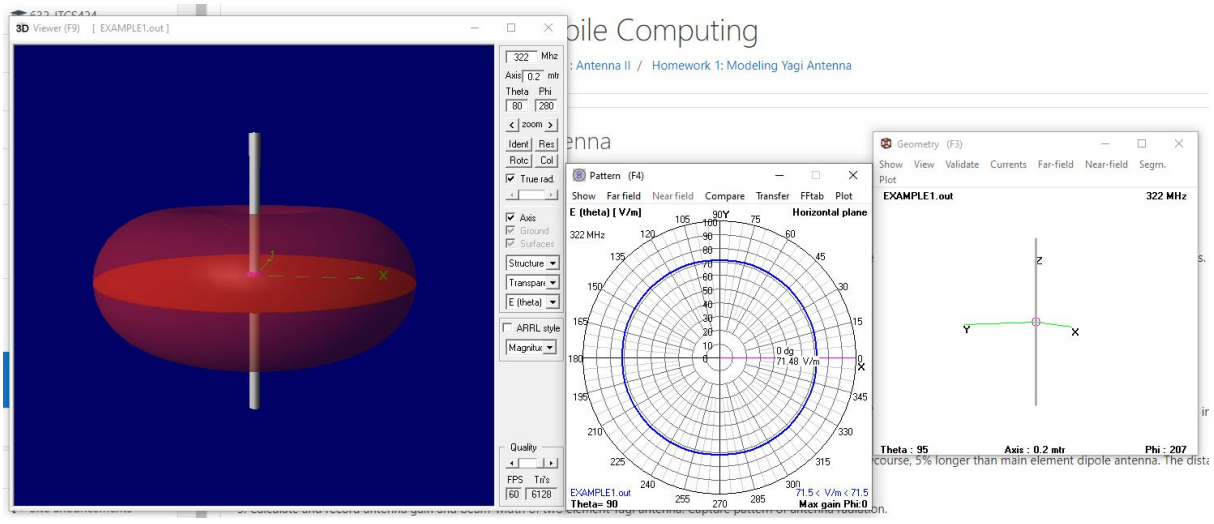
Name: Mangkhales Ngamjaruskotchakorn
ID: 6188055 Section: 1 Homework: 1

Homework 1: Modeling Yagi Antenna

Given a Dipole antenna with the last digit (055), so it is **322 Mhz** shown in the Vertical plane.



Given a Dipole antenna with the last digit (055), so it is **322 Mhz** shown in the Horizontal plane.



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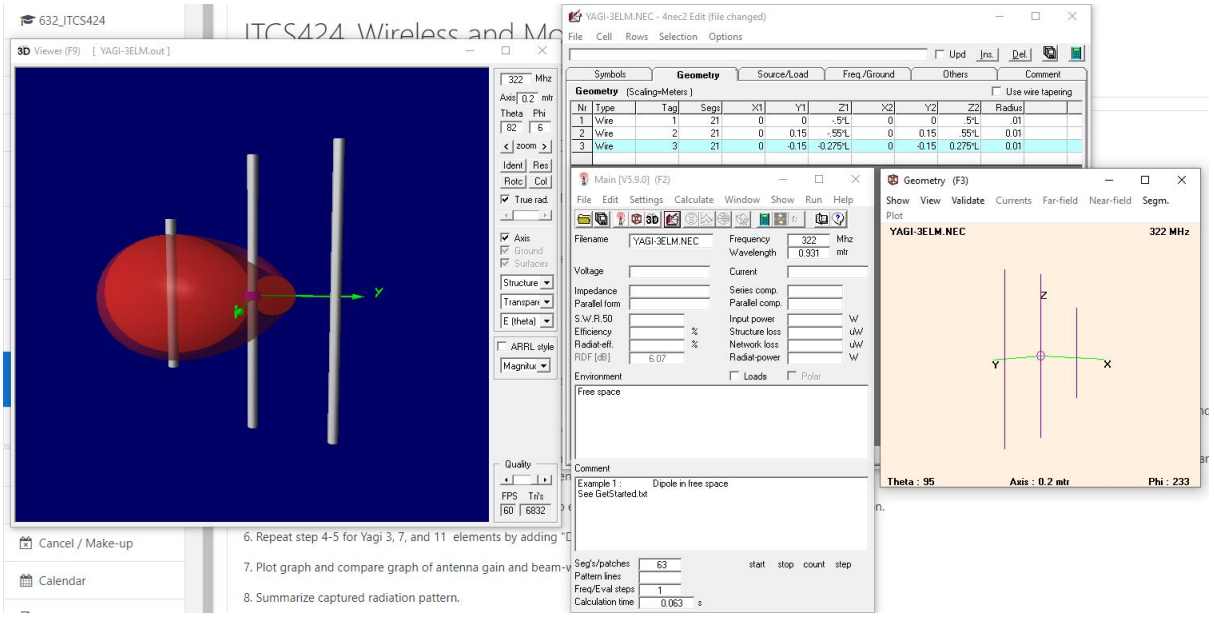
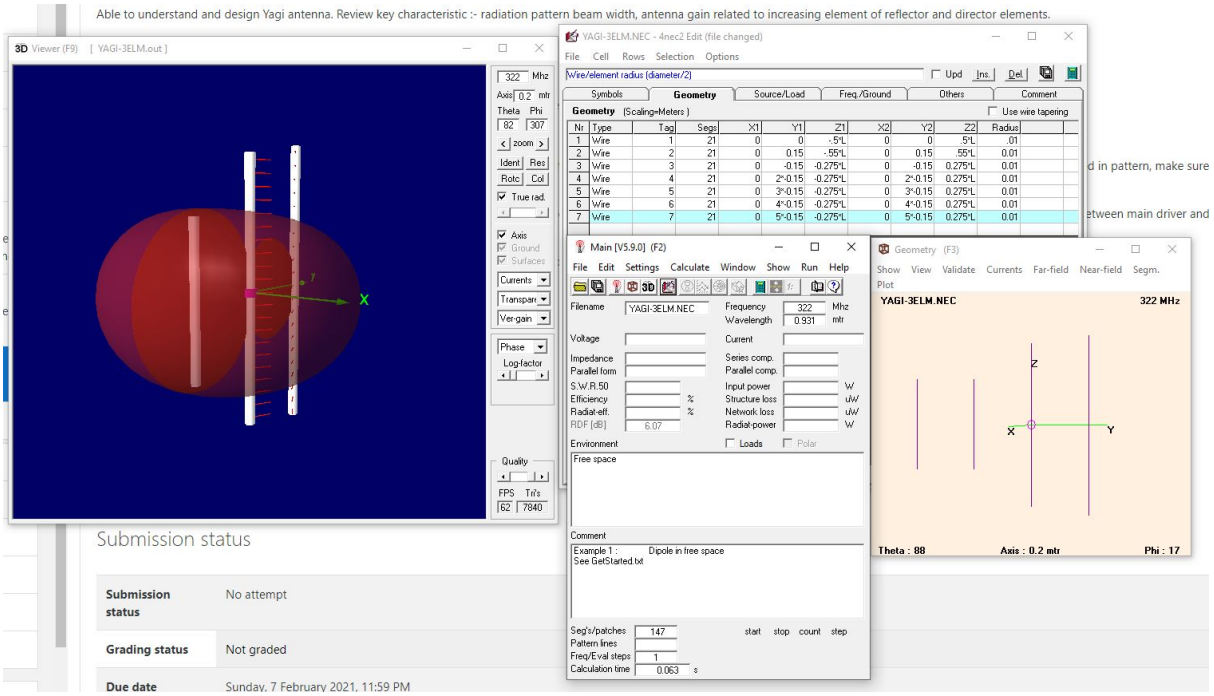
For the Yaki3-elm.out by setting **3 Nr** in Geometry, without taking wavelength



For the Yaki3-elm.out by setting **7 Nr** in Geometry, without taking wavelength



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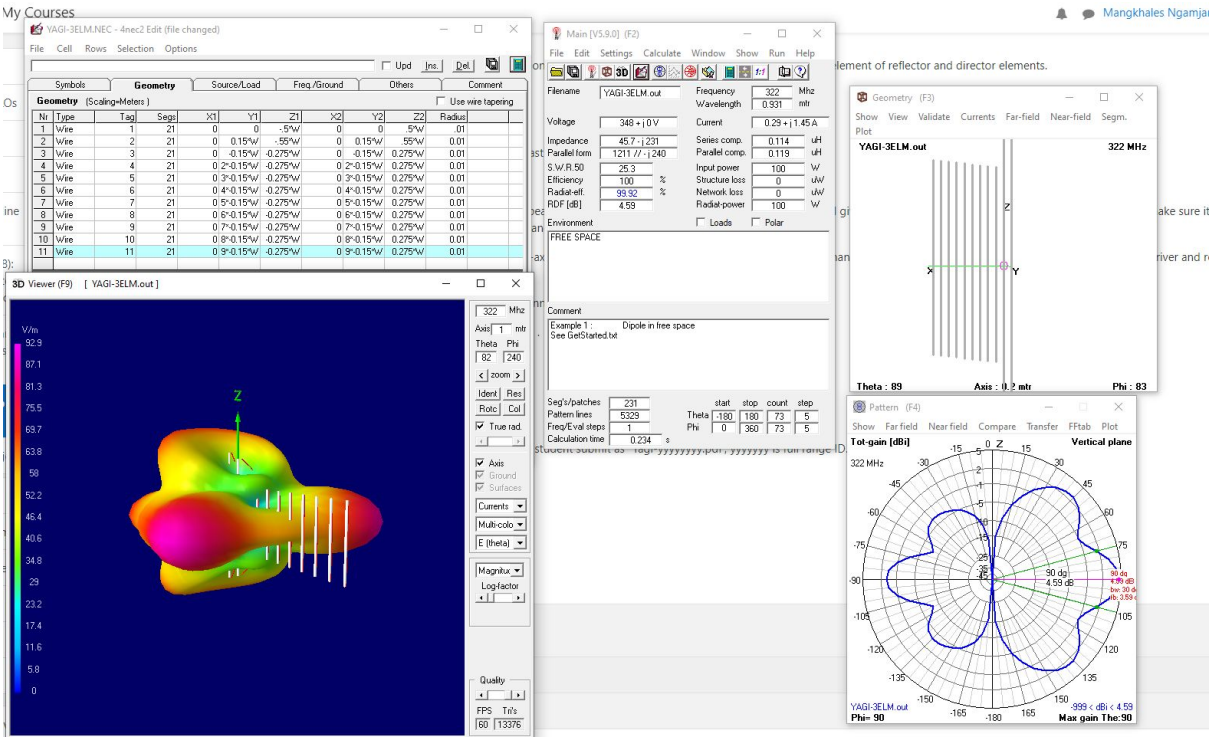
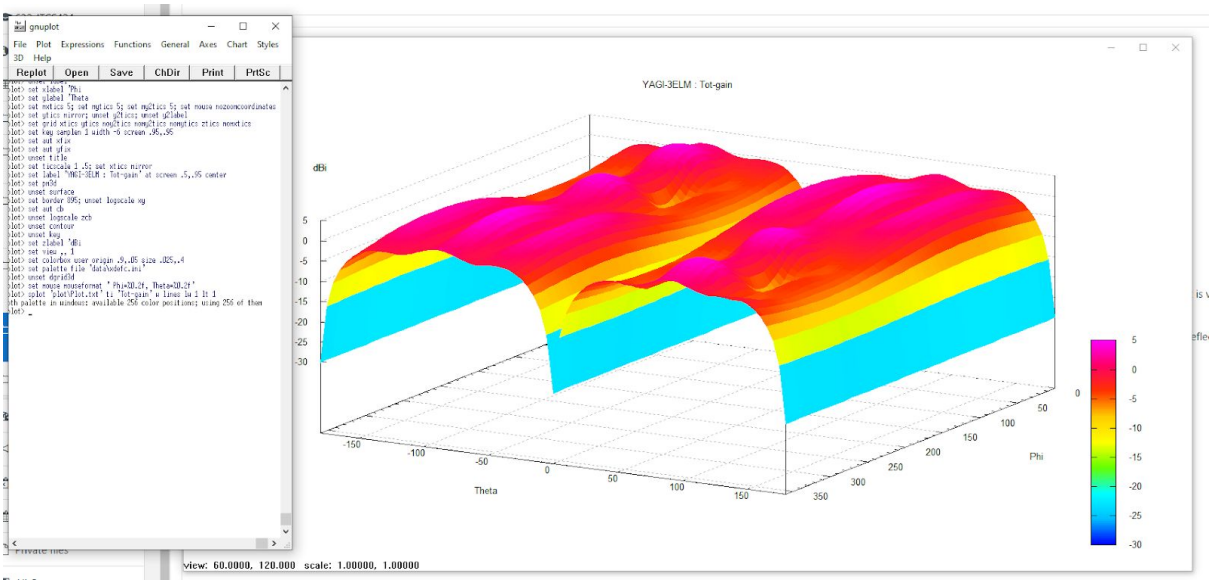
For the Yaki3-elm.out by setting **11 Nr** in Geometry, with taking wavelength



For **plot graph**



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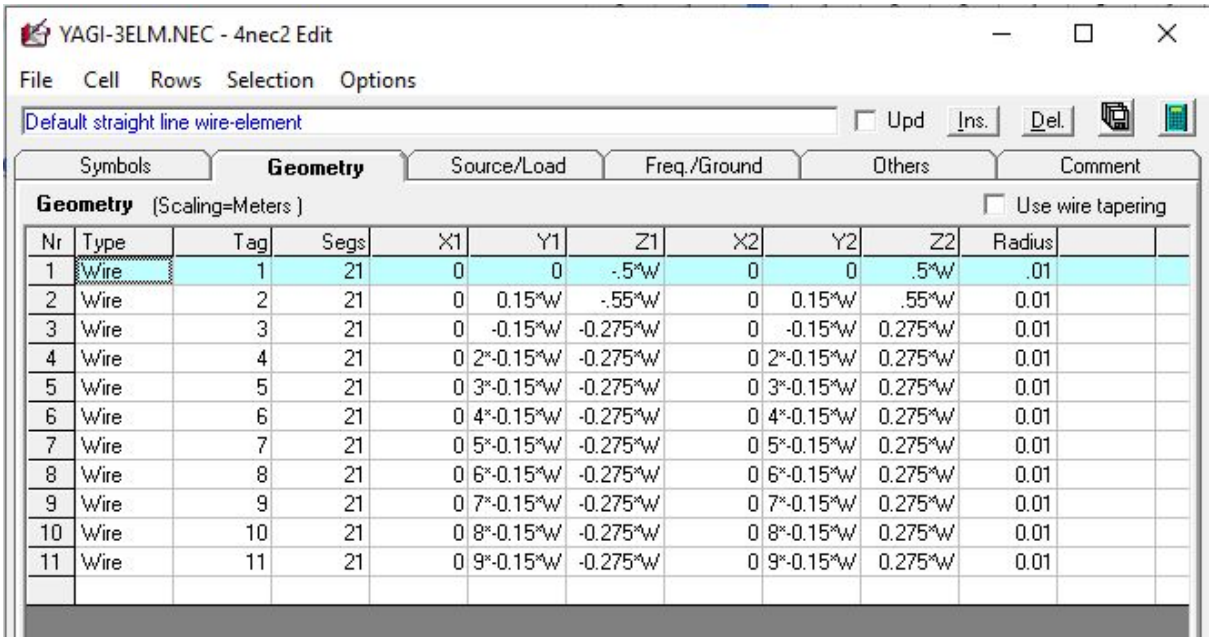
For the summarization

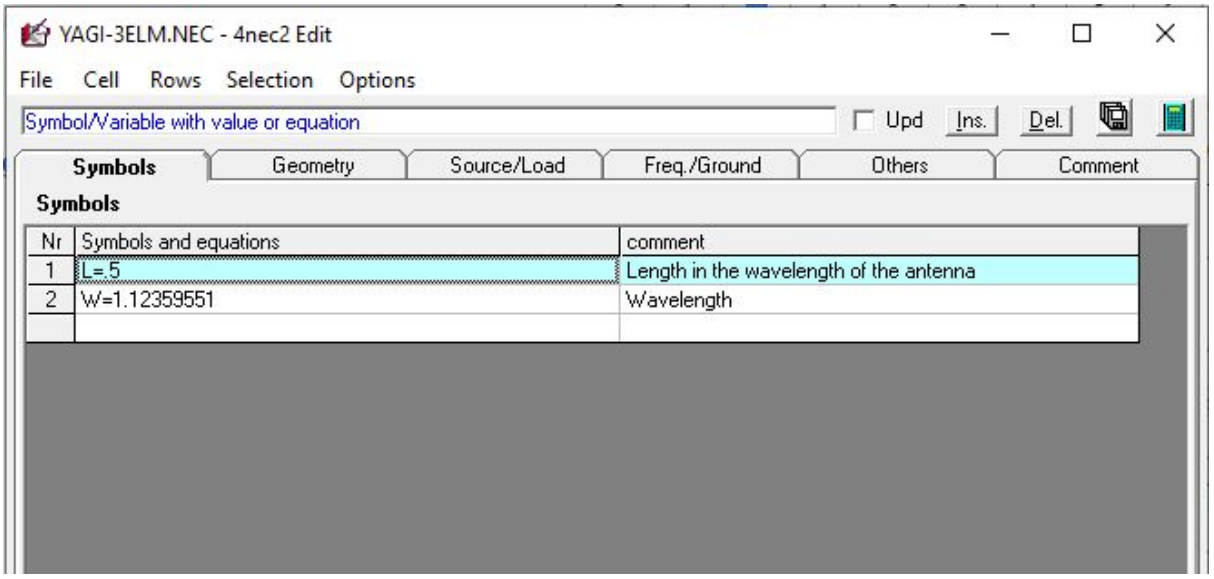
I imported the file that provided in mycourse, my identification student number ends with 5. So, I changed the frequency to 322 Mhz as required by the teacher. In order to find the Ramda or Wavelength in the 4nec2 program (c divided by f).

*For the **Geometry bar**.*



Nr	Type	Tag	Segs	X1	Y1	Z1	X2	Y2	Z2	Radius
1	Wire	1	21	0	0	-.5*W	0	0	.5*W	.01
2	Wire	2	21	0	0.15*W	-.55*W	0	0.15*W	.55*W	0.01
3	Wire	3	21	0	-0.15*W	-0.275*W	0	-0.15*W	0.275*W	0.01
4	Wire	4	21	0	2*-0.15*W	-0.275*W	0	2*-0.15*W	0.275*W	0.01
5	Wire	5	21	0	3*-0.15*W	-0.275*W	0	3*-0.15*W	0.275*W	0.01
6	Wire	6	21	0	4*-0.15*W	-0.275*W	0	4*-0.15*W	0.275*W	0.01
7	Wire	7	21	0	5*-0.15*W	-0.275*W	0	5*-0.15*W	0.275*W	0.01
8	Wire	8	21	0	6*-0.15*W	-0.275*W	0	6*-0.15*W	0.275*W	0.01
9	Wire	9	21	0	7*-0.15*W	-0.275*W	0	7*-0.15*W	0.275*W	0.01
10	Wire	10	21	0	8*-0.15*W	-0.275*W	0	8*-0.15*W	0.275*W	0.01
11	Wire	11	21	0	9*-0.15*W	-0.275*W	0	9*-0.15*W	0.275*W	0.01

*For the **Symbols bar**.*



Nr	Symbols and equations	comment
1	L=5	Length in the wavelength of the antenna
2	W=1.12359551	Wavelength