Calvin Passmore

A02107892

ECE 5420

First output:

```
nvx = 1.247910e+00

nvy = 3.788906e-01

i(vm1) = 1.136997e-03

i(vm2) = 3.332524e-05
```

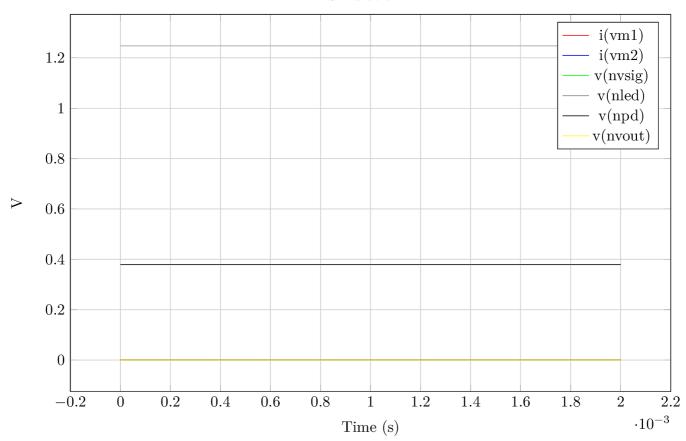
This was close to the expected values.

Transient Solution

lode	Voltage	
nvdd	5	
nsig	0	
ıvx	1.24791	
nled	1.24791	
ıvy	0.378891	
npd	0.378891	
nvsig	1.24791	
nc	1.24791	
nvout	0.378887	
/m1#branch	0.001137	
/m2#branch	3.33252e-05	
/sig#branch	0	
vdd#branch	-0.00118321	

sim1 png output

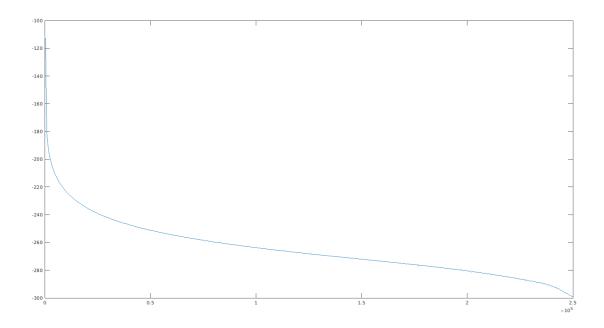




MATLAB STUFF TODO

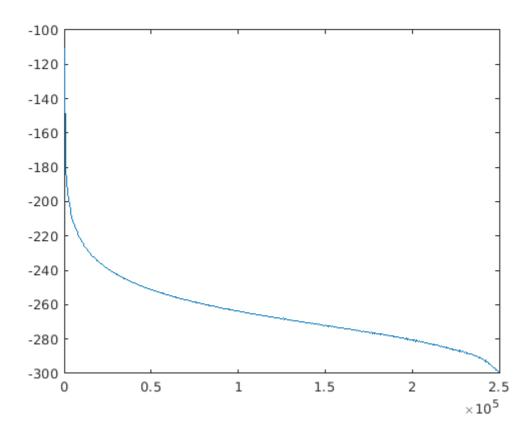
No. Hai	rmonics: 10,	THD: 73.504	5 %, Gridsiz	e: 200, Inte	rpolation Degree: 1
Harmonic	Frequency	Magnitude	Phase	Norm. Mag	Norm. Phase
		4 4004 - 00			
0	0	-1.4001e-06	Θ	0	0
1	5000	8.90459e-11	-179.1	1	0
2	10000	4.45281e-11	-178.2	0.500058	0.901387
3	15000	2.96904e-11	-177.3	0.333428	1.80209
4	20000	2.22746e-11	-176.4	0.250147	2.70049
5	25000	1.78105e-11	-175.48	0.200014	3.62102
6	30000	1.48622e-11	-174.6	0.166904	4.50241
7	35000	1.27466e-11	-173.7	0.143147	5.39605
8	40000	1.11597e-11	-172.81	0.125325	6.28972
9	45000	9.92586e-12	-171 01	0.111469	7.18534

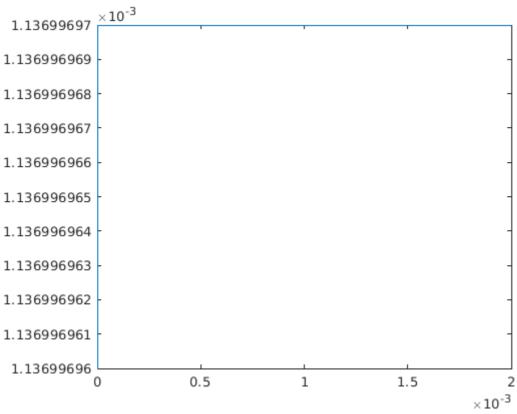
Matlab FFT

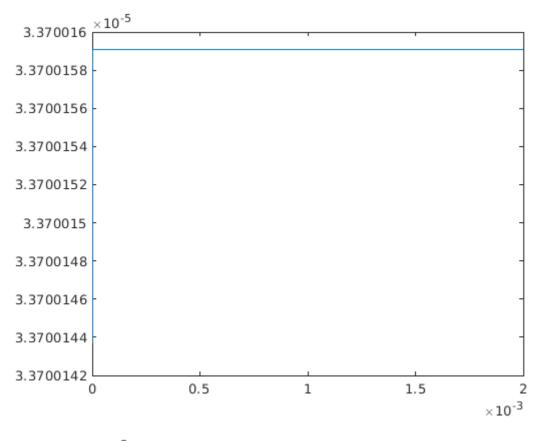


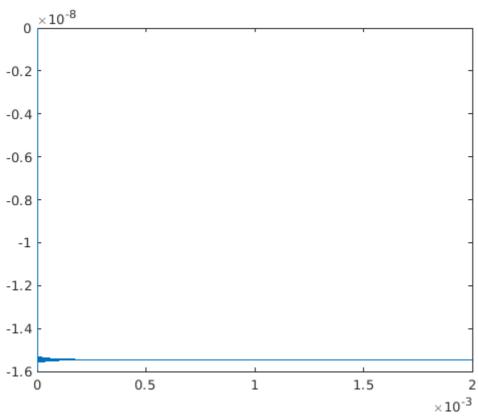
```
maxdb
                    = -inf at= 1.000000e+06
Error(checkvalid): vector inf is not available or has zero length.
Error: RHS " -inf" invalid
Error(checkvalid): vector maxdb is not available or has zero length.
Error: RHS "maxdb - 3.0" invalid
Error: measure fl find(AT) : out of interval
meas ac fl find frequency when vdb(nvout)=cutoffmag failed!
Error: measure f2 find(AT) : out of interval
meas ac f2 find frequency when vdb(nvout)=cutoffmag cross=last failed!
Error: &maxdb: no such variable.
Max dB =
Error: &fl: no such variable.
Lower Cutoff Frequency =
Error: &f2: no such variable.
Higher Cutoff Frequency =
```

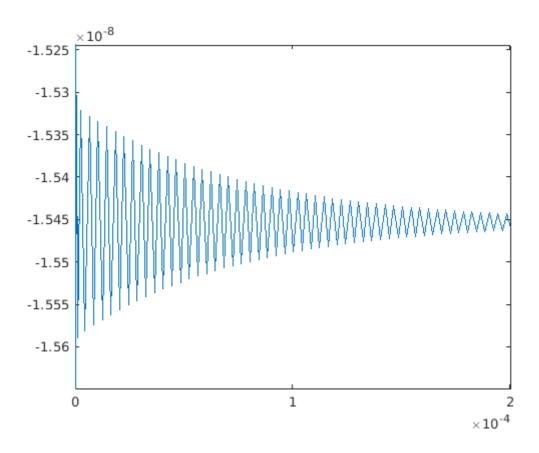
A = 0.02

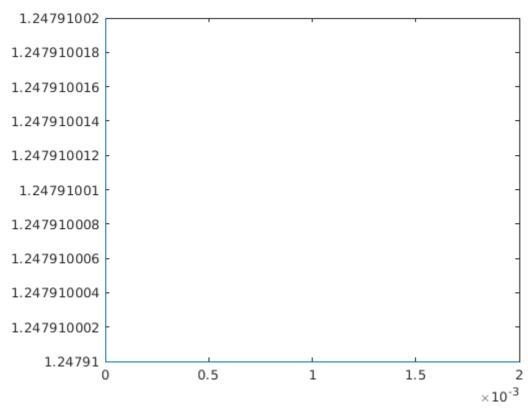


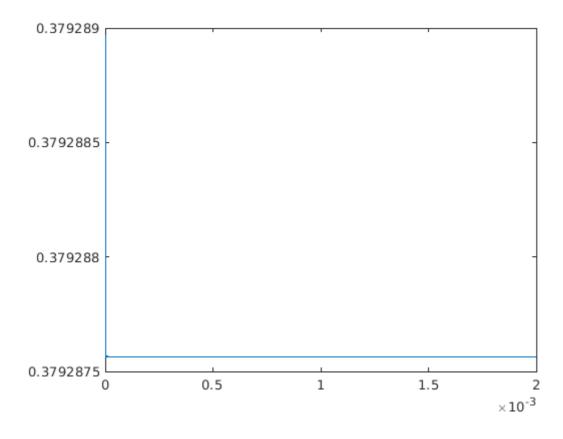




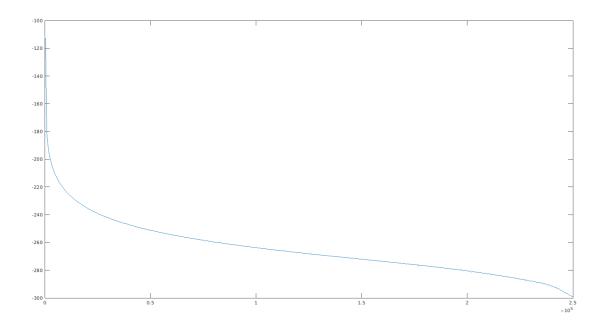


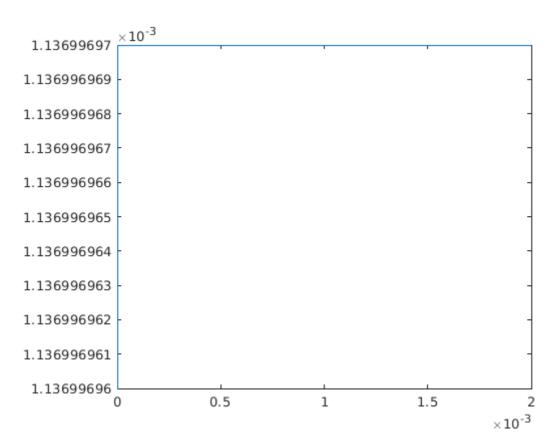


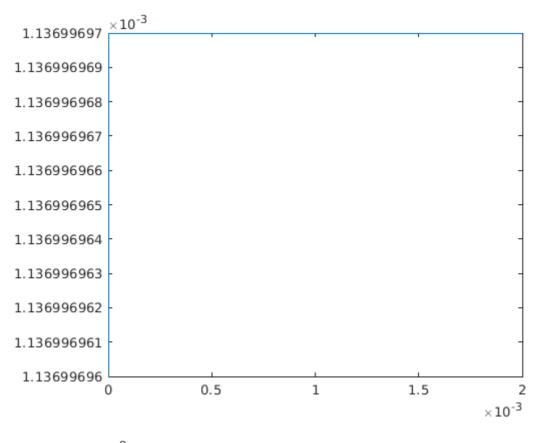


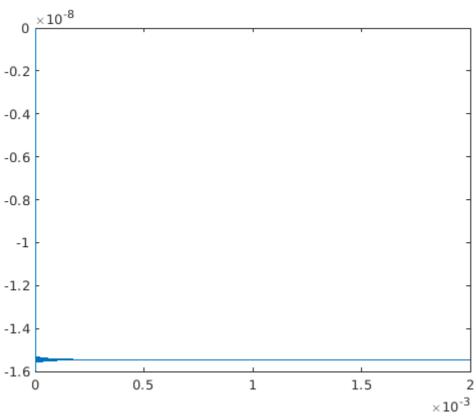


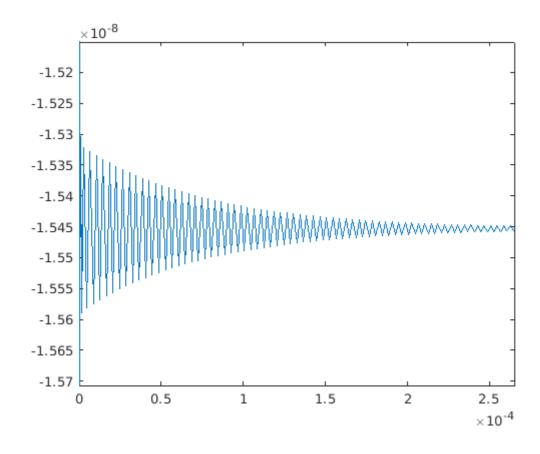
A = 0.01

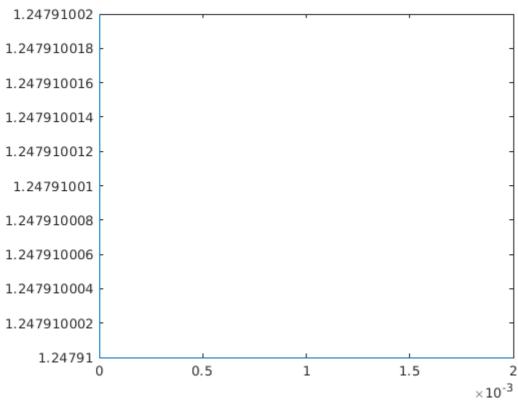


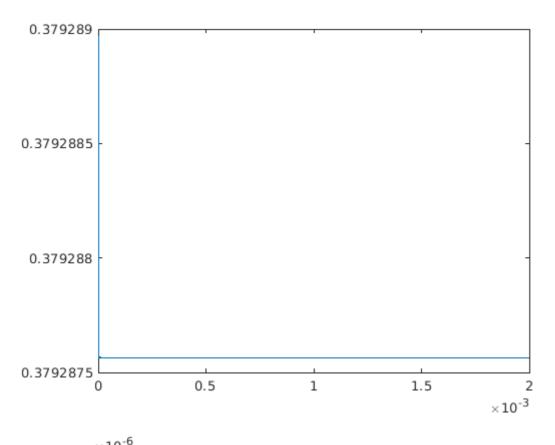


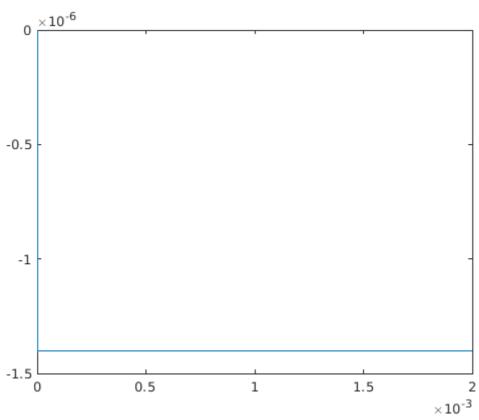












A = 0.005

