

NASA Langley Research Center

Information Session

Wednesday, September 16, 2015

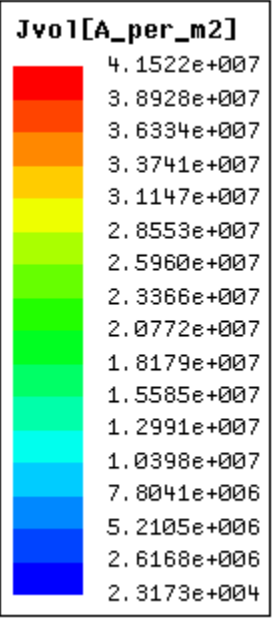
5:30pm - 6:30pm

Cohen Career Center

Skin Effect

EM simulations done with HFSS (Ansys)

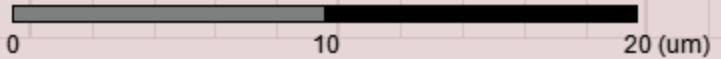
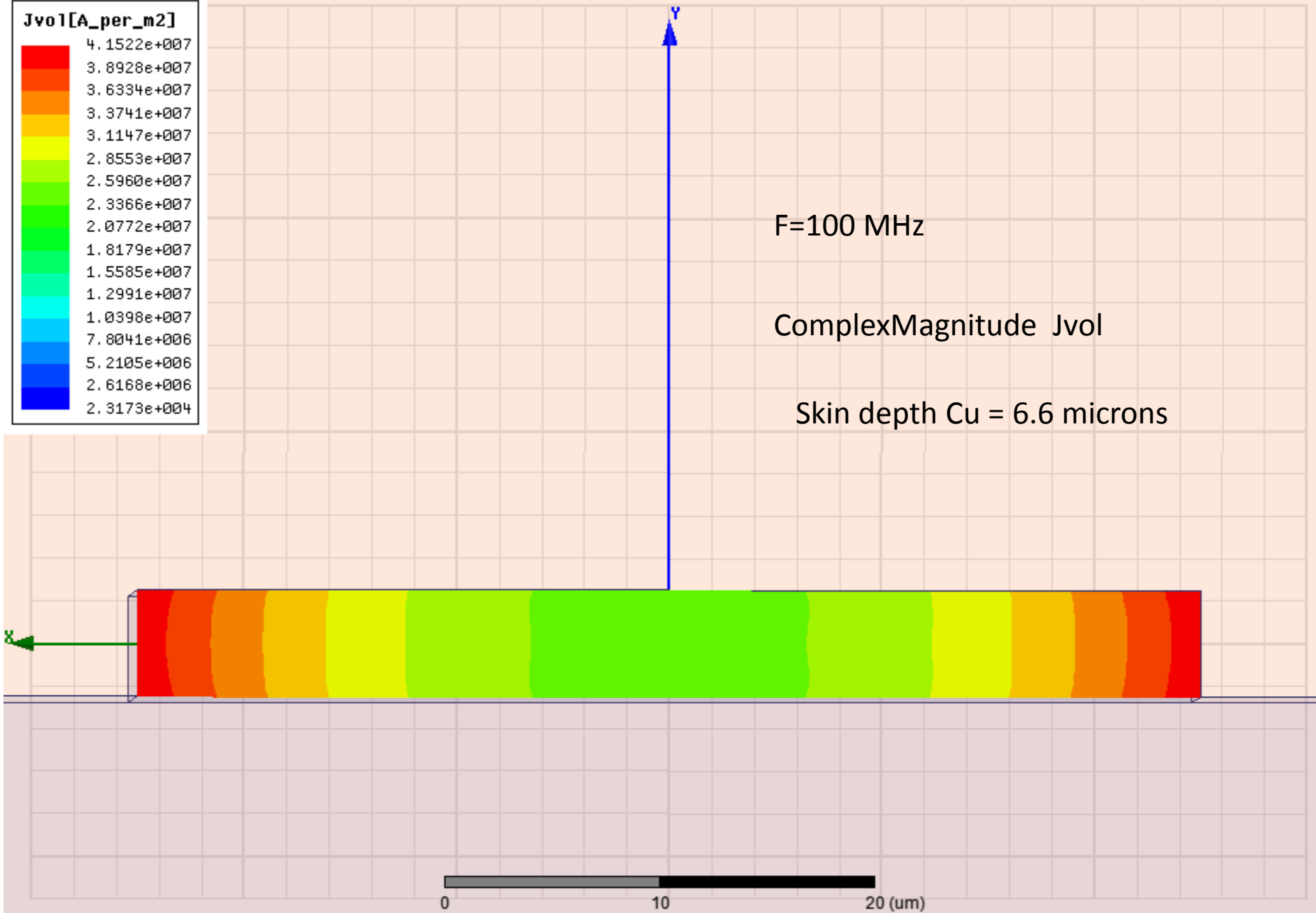


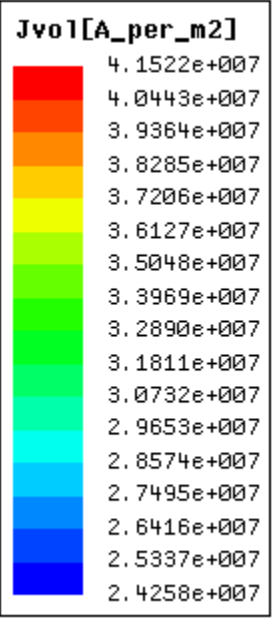


F=100 MHz

ComplexMagnitude Jvol

Skin depth Cu = 6.6 microns

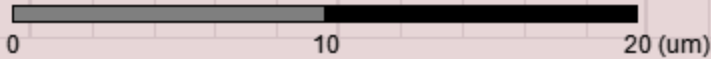
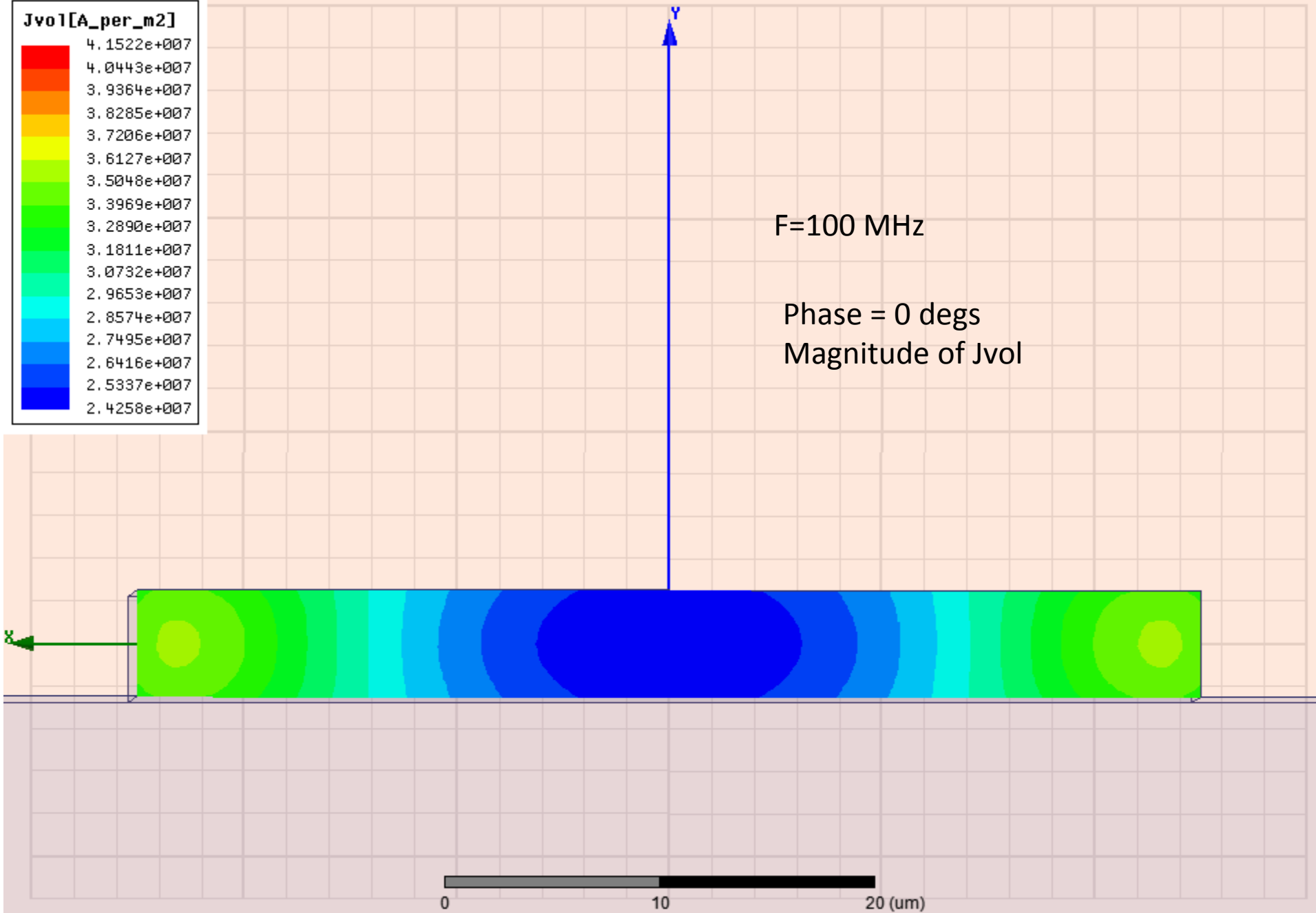


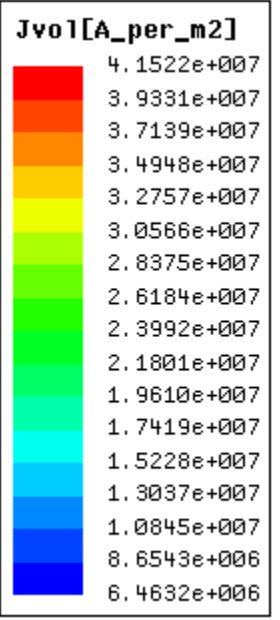


F=100 MHz

Phase = 0 degs

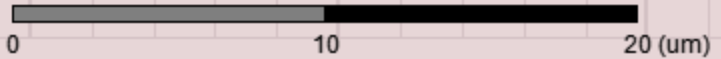
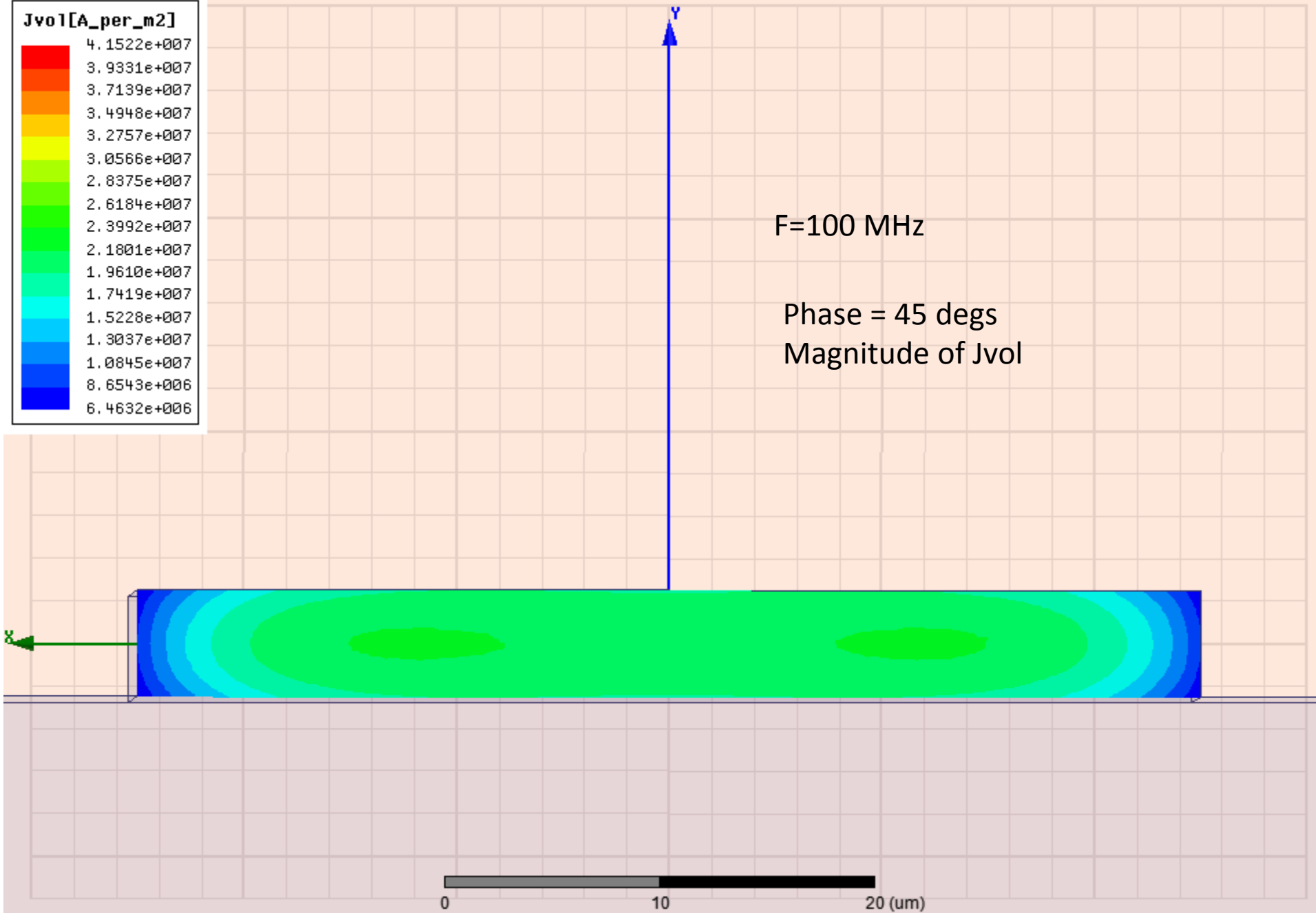
Magnitude of Jvol

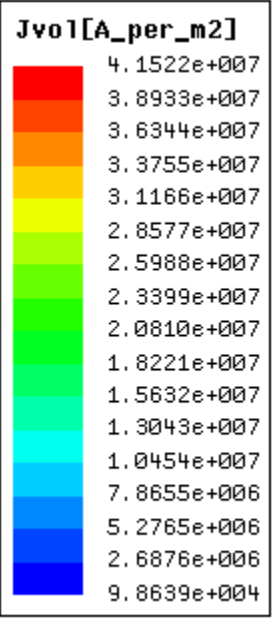




F=100 MHz

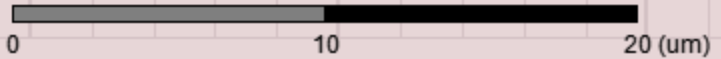
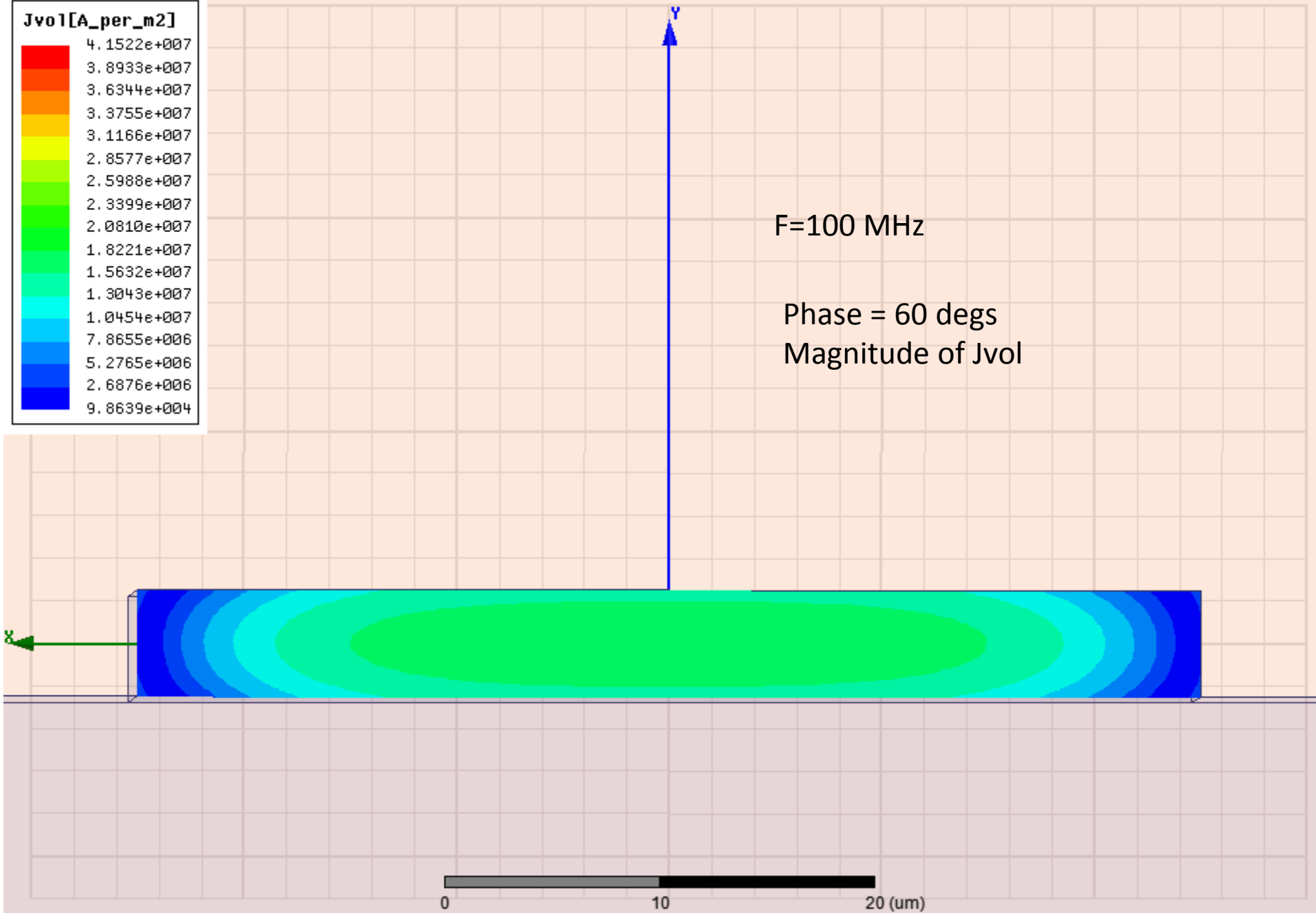
Phase = 45 degs
Magnitude of Jvol

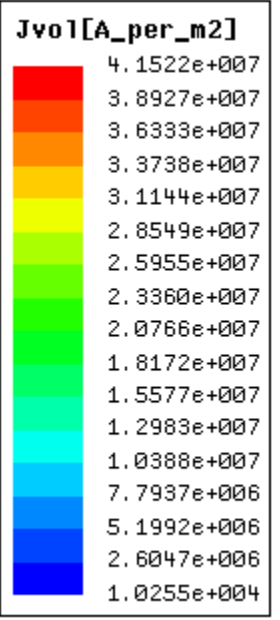




F=100 MHz

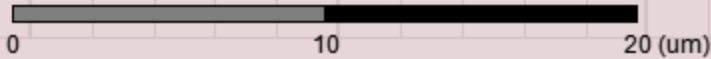
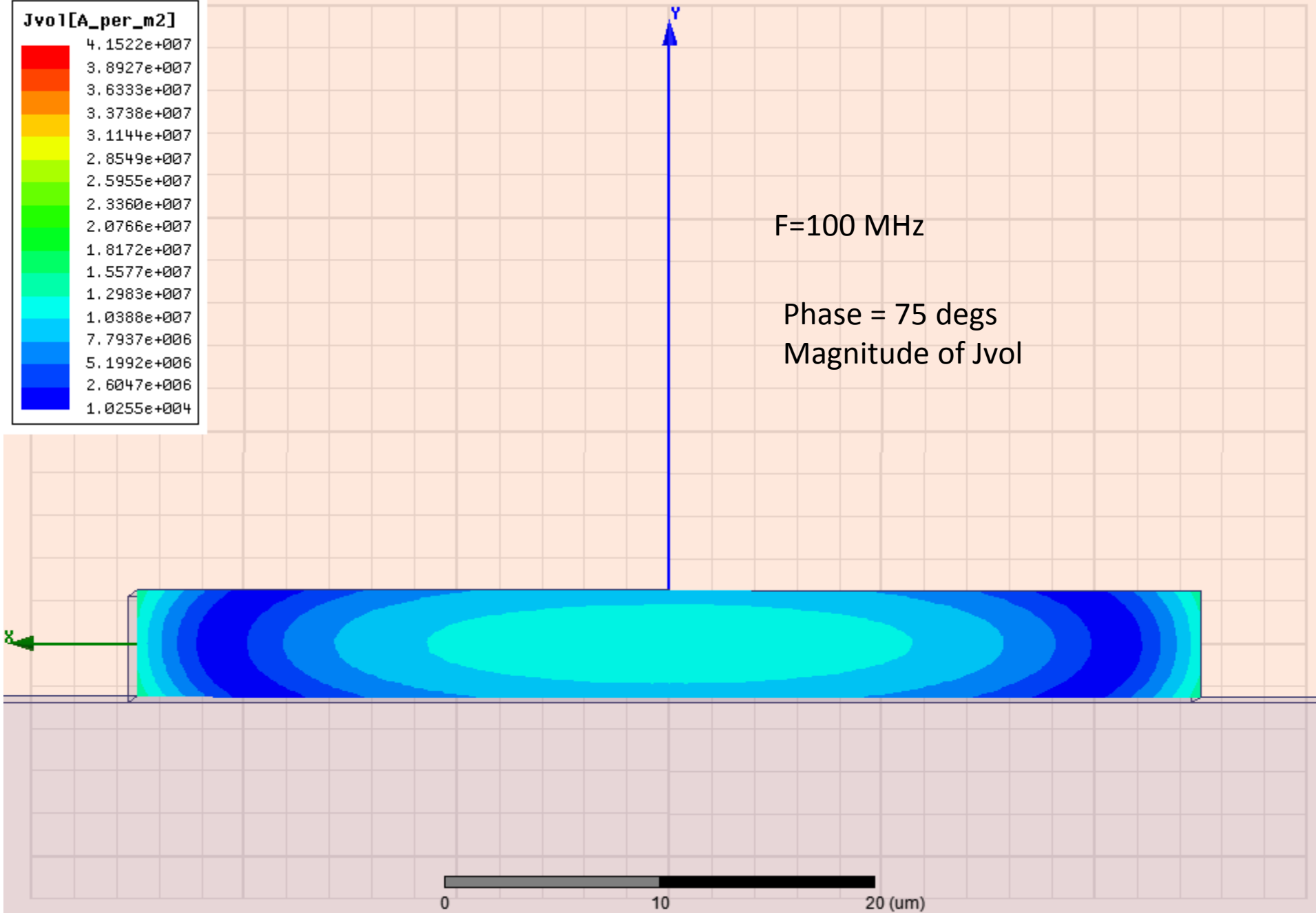
Phase = 60 degs
Magnitude of Jvol

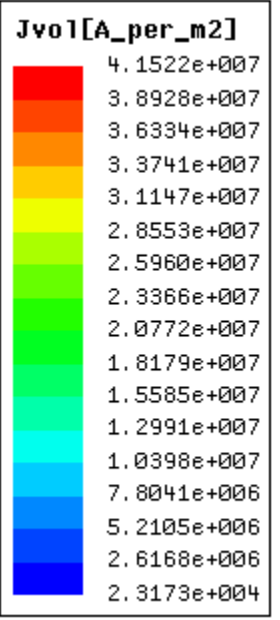




F=100 MHz

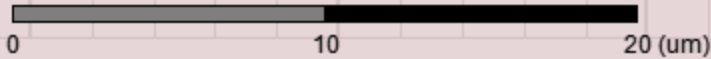
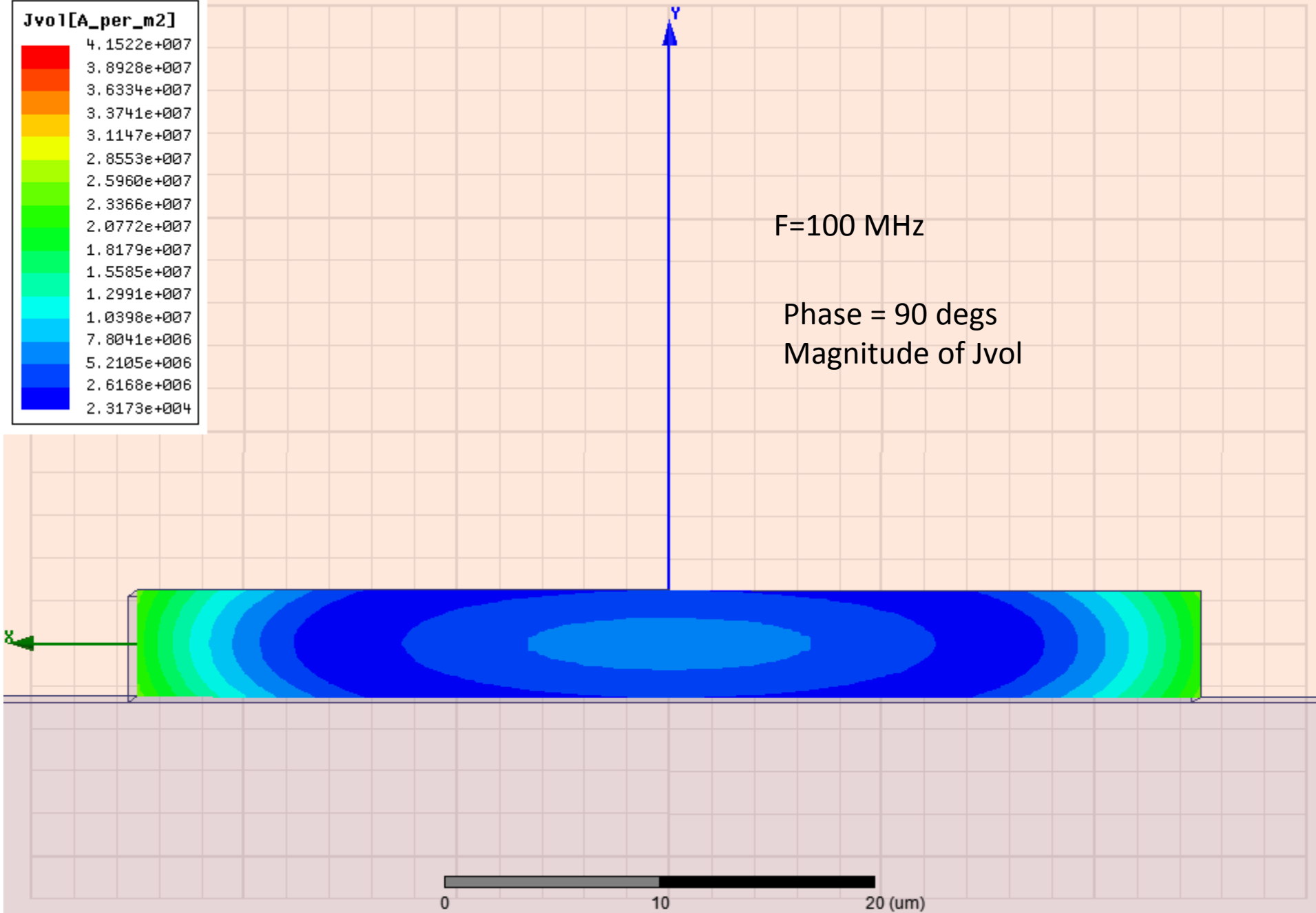
Phase = 75 degs
Magnitude of Jvol

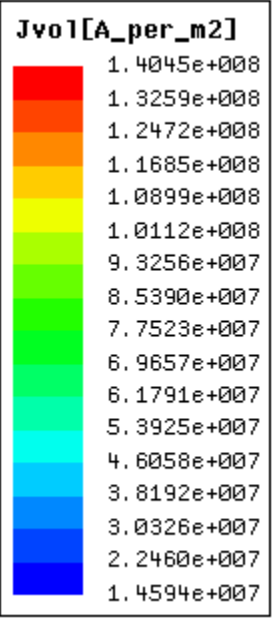




F=100 MHz

Phase = 90 degs
Magnitude of Jvol

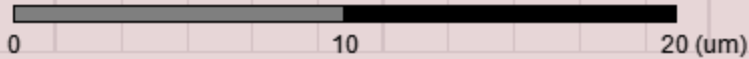


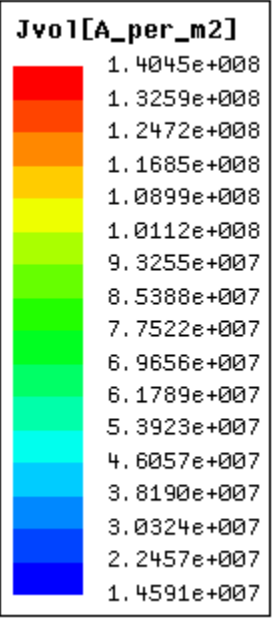


F=1000 MHz

ComplexMagnitude Jvol

Skin depth Cu = 2.1 microns

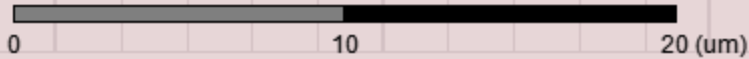


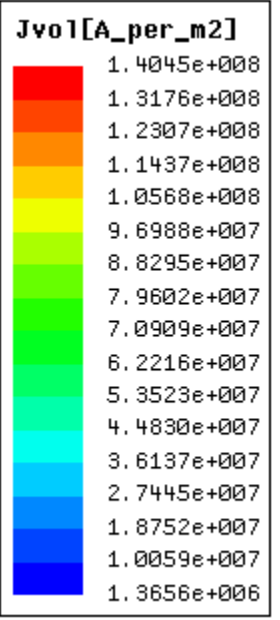


F=1000 MHz

Phase = 0 degs

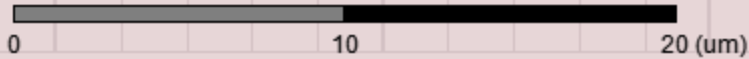
Magnitude of Jvol

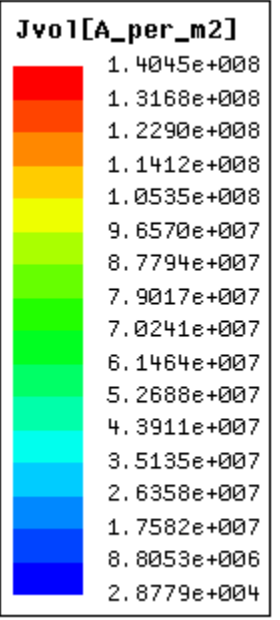




F=1000 MHz

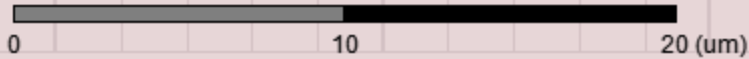
Phase = 45 degs
Magnitude of Jvol

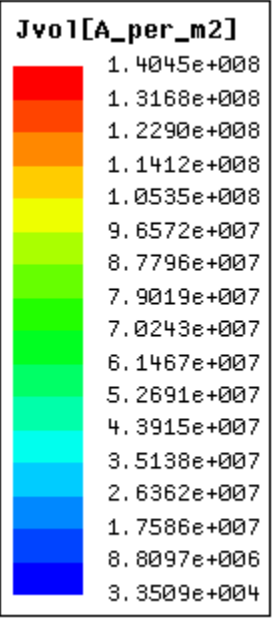




F=1000 MHz

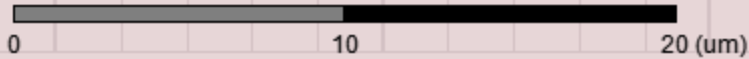
Phase = 70 degs
Magnitude of Jvol

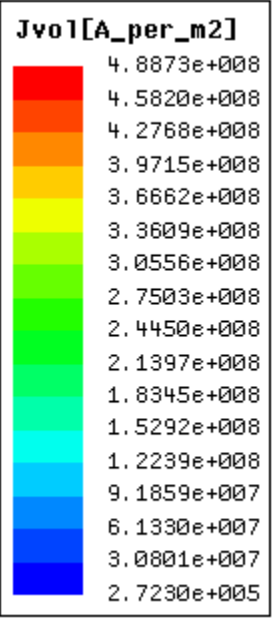




F=1000 MHz

Phase = 90 degs
Magnitude of Jvol

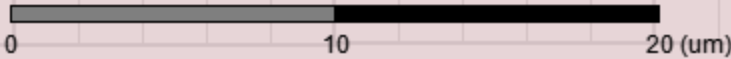
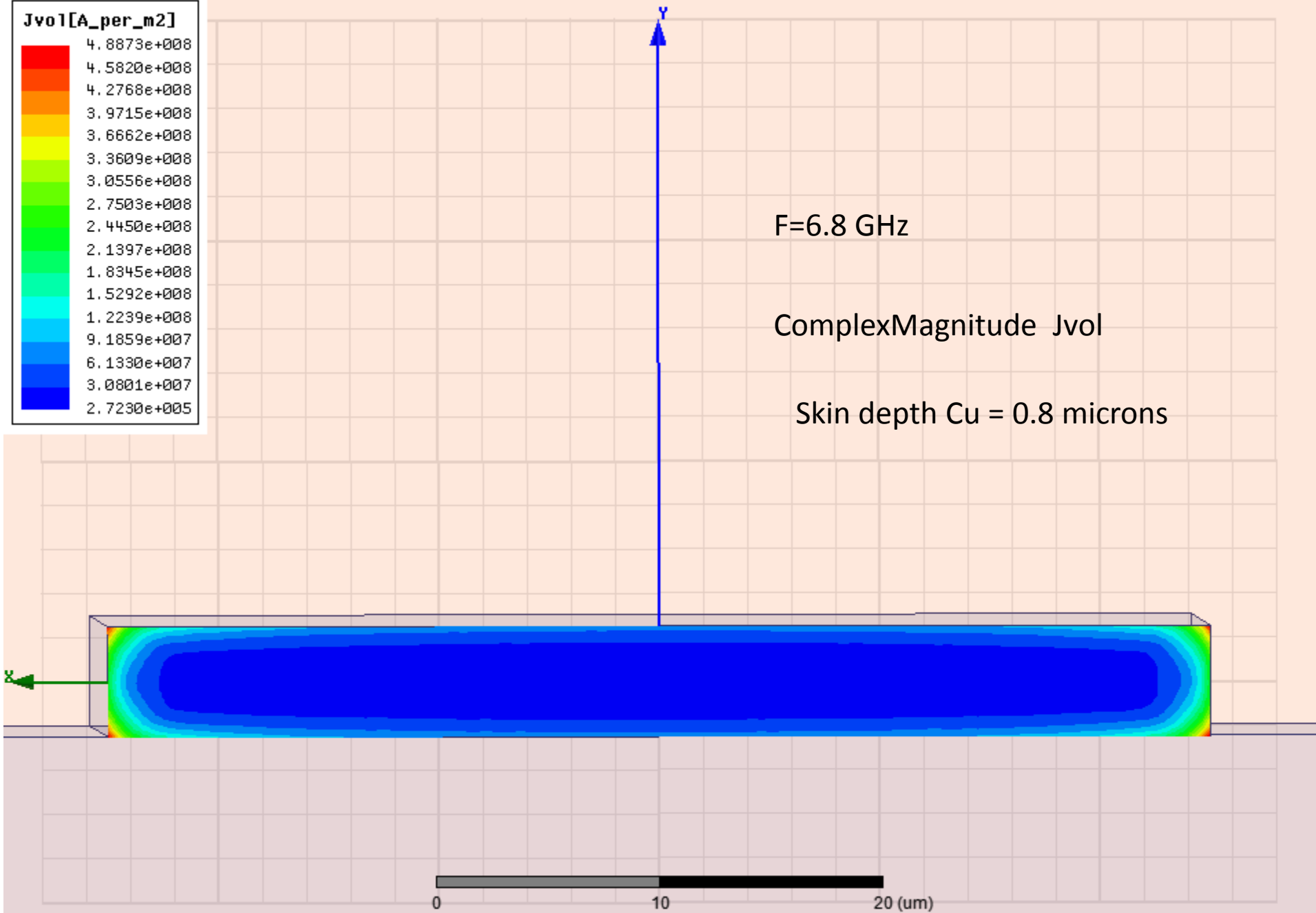


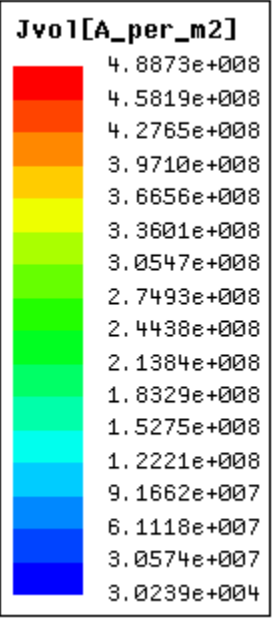


F=6.8 GHz

ComplexMagnitude Jvol

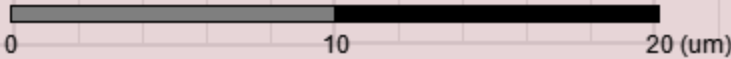
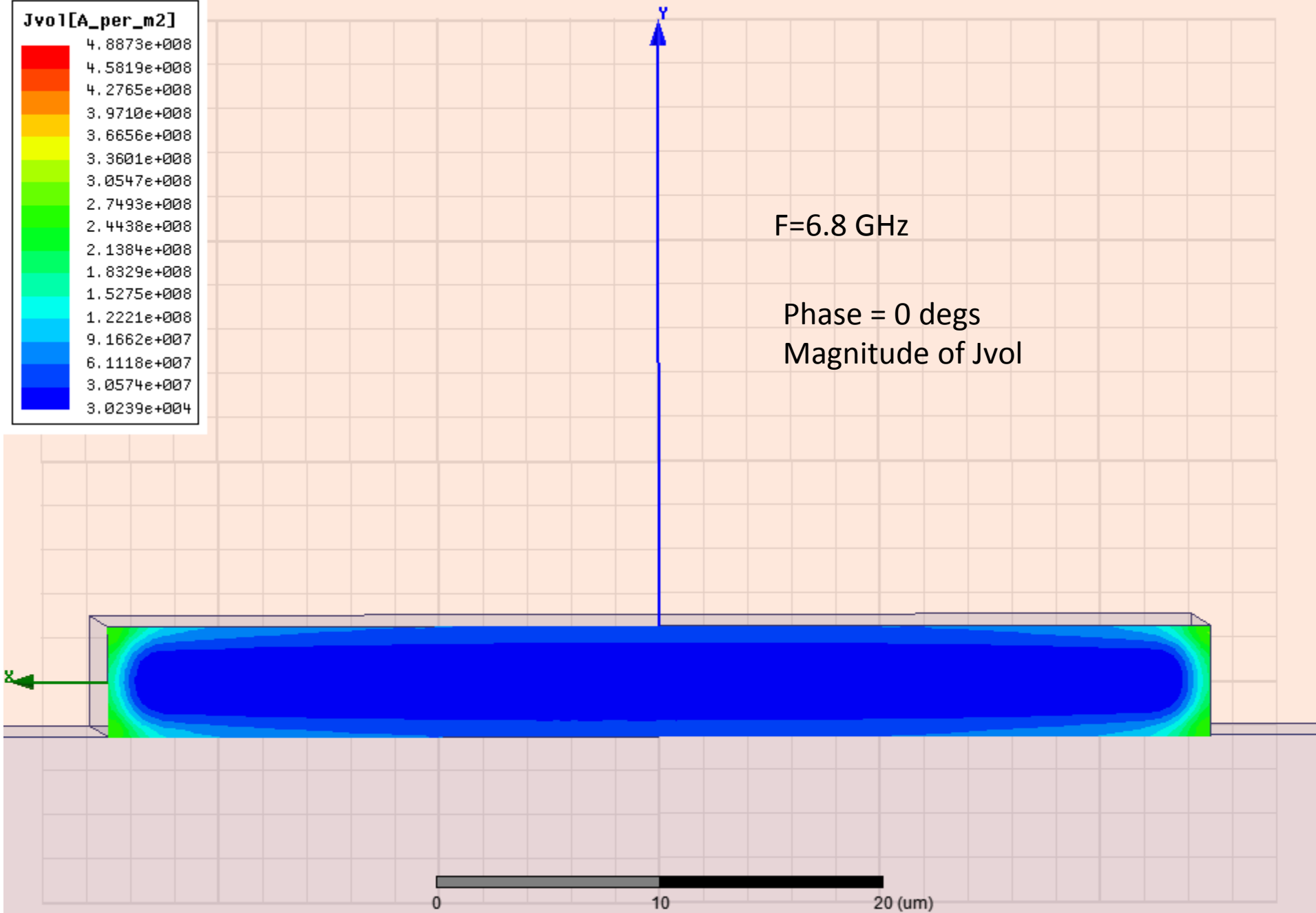
Skin depth Cu = 0.8 microns

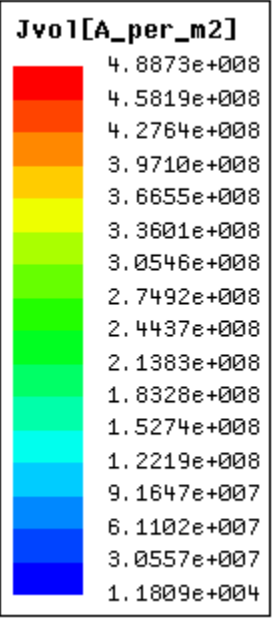




F=6.8 GHz

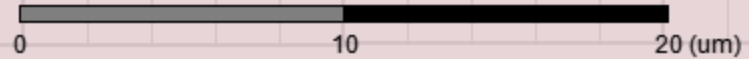
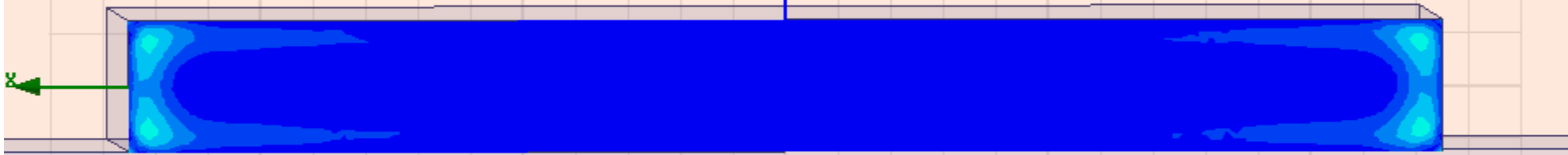
Phase = 0 degs
Magnitude of Jvol

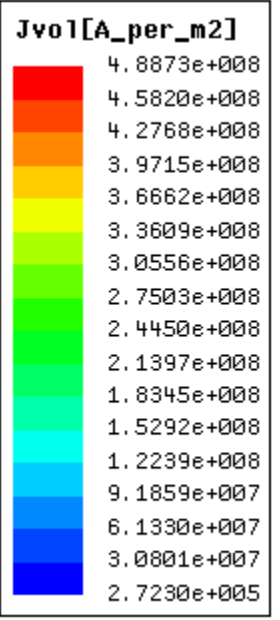




F=6.8 GHz

Phase = 45 degs
Magnitude of Jvol





F=6.8 GHz

Phase = 90 degs
Magnitude of Jvol

