

NASA Langley Research Center Info Session

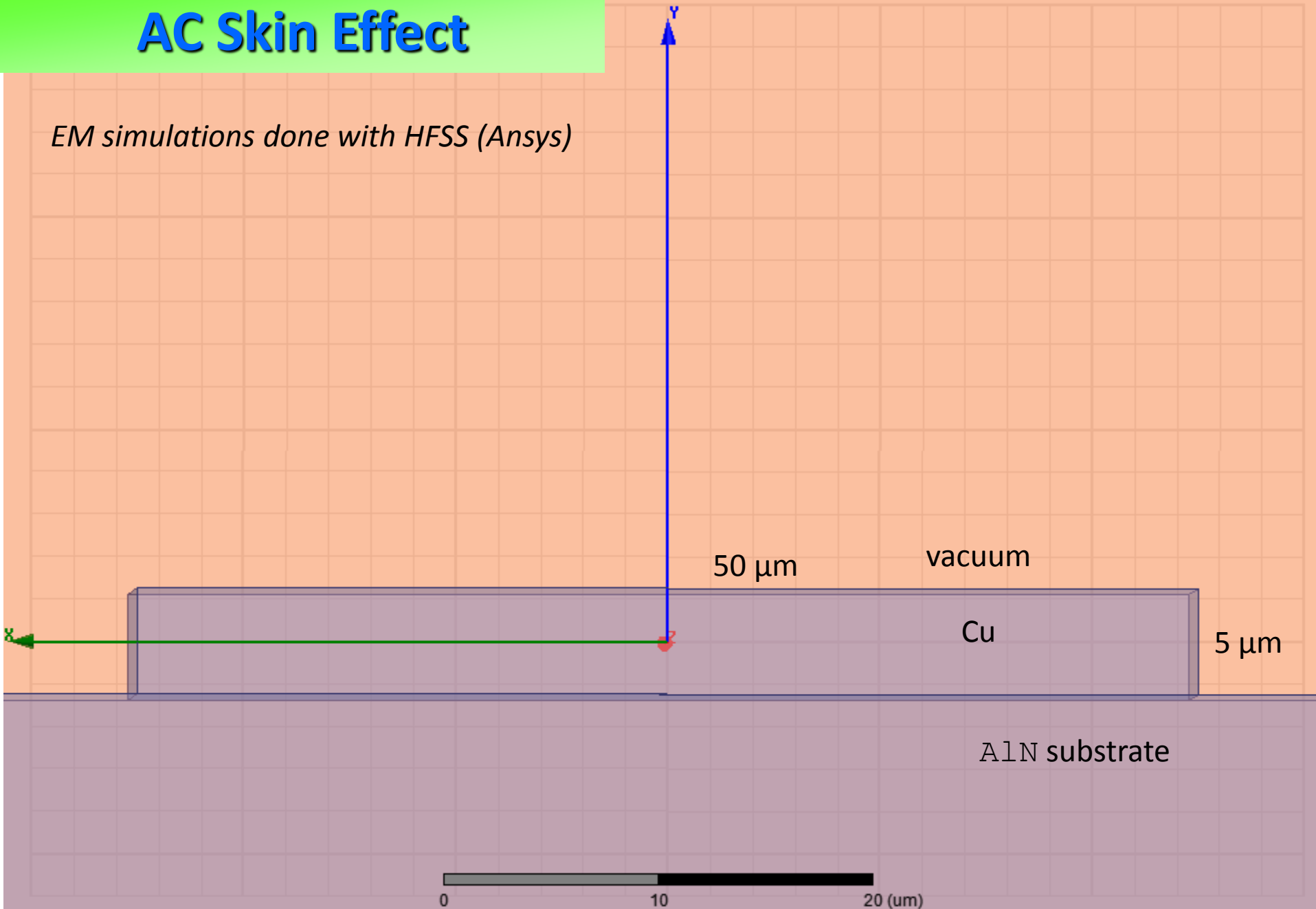
Wednesday, September 14th

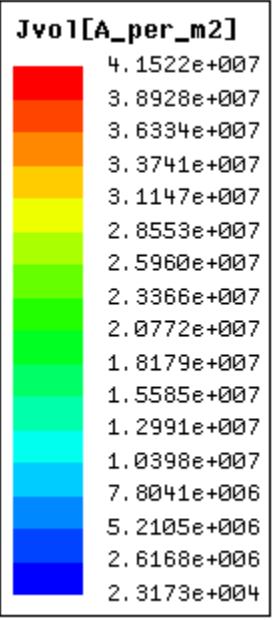
5:30 - 6:30pm, Cohen Career Center

NASA Langley Research Center offers valuable internships to students across several areas including the sciences, business and education. Representatives discuss internships and the application process, and take your questions.

AC Skin Effect

EM simulations done with HFSS (Ansys)

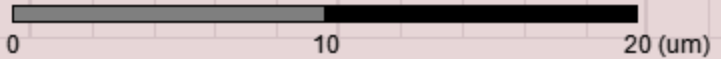
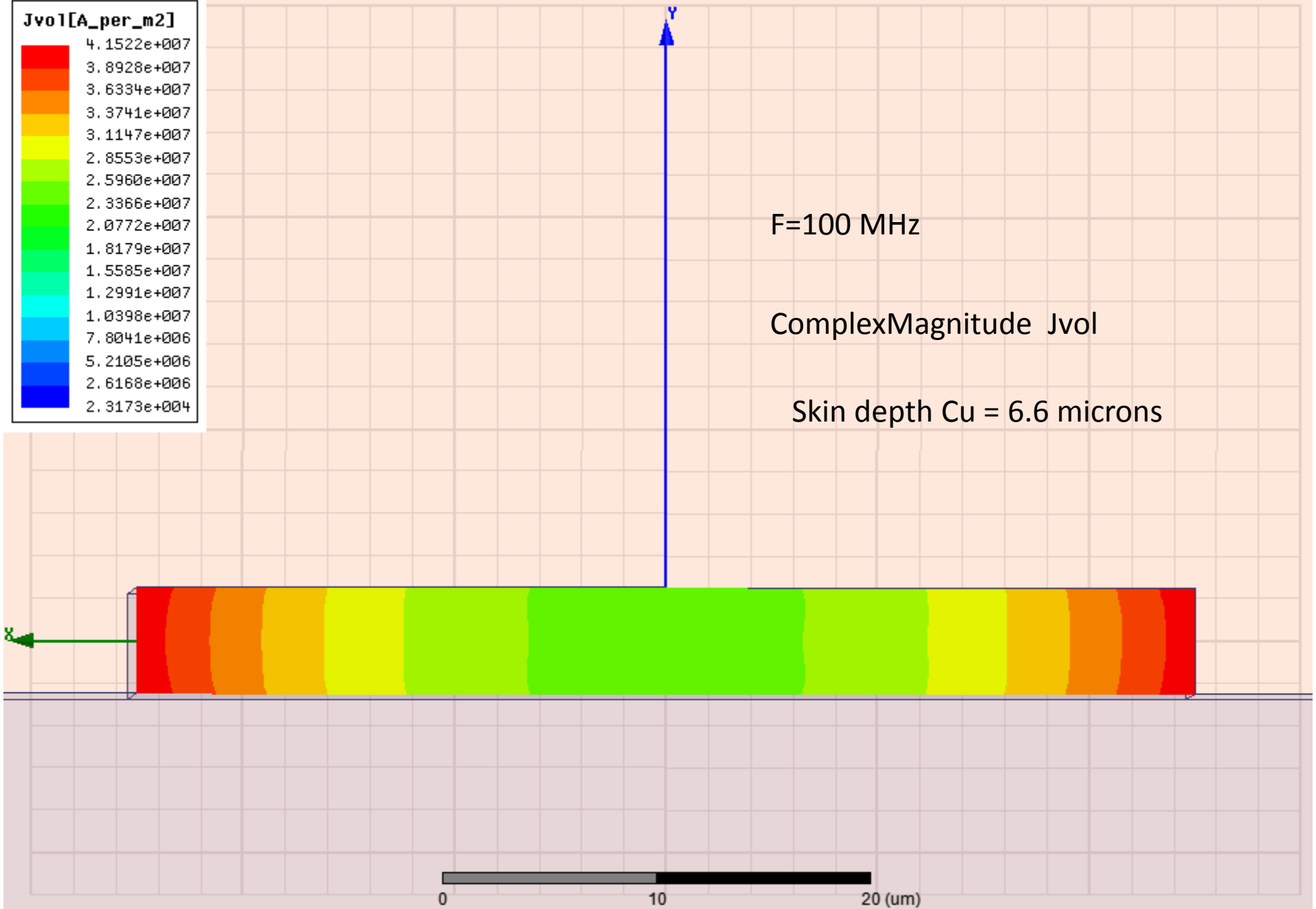


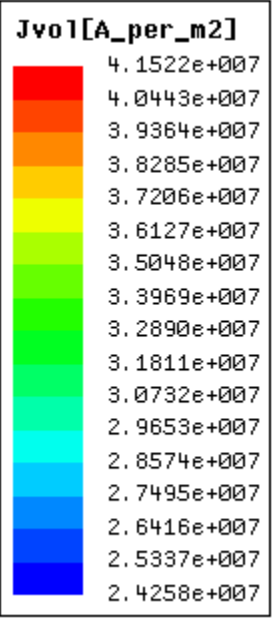


F=100 MHz

ComplexMagnitude Jvol

Skin depth Cu = 6.6 microns

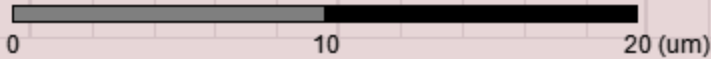
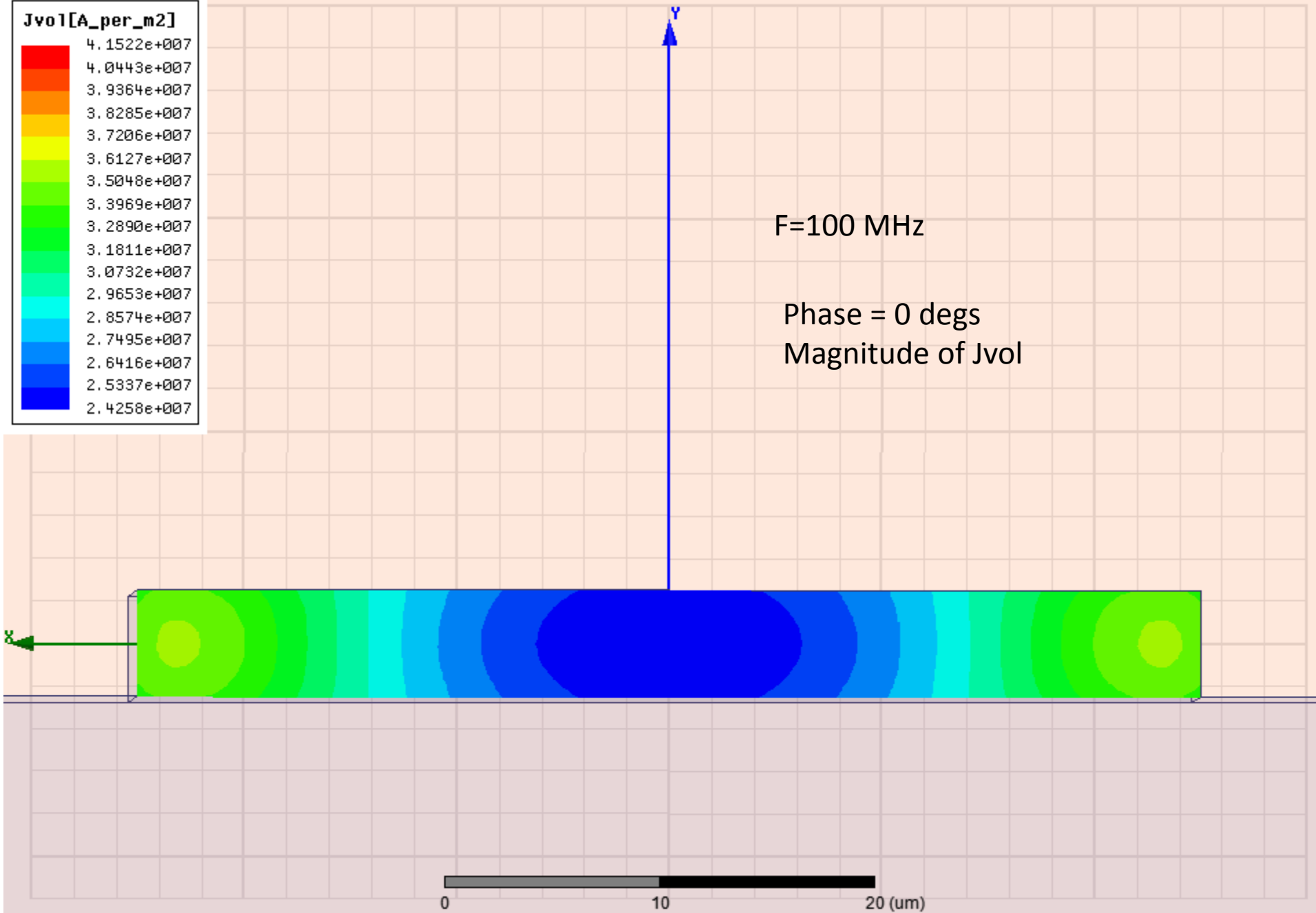


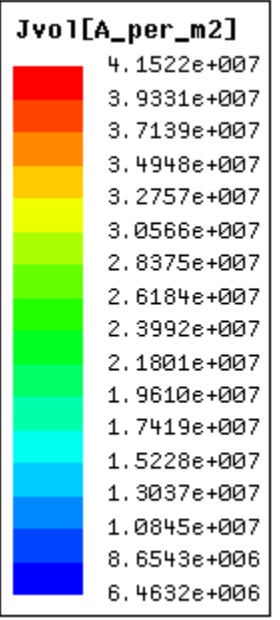


F=100 MHz

Phase = 0 degs

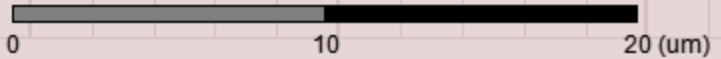
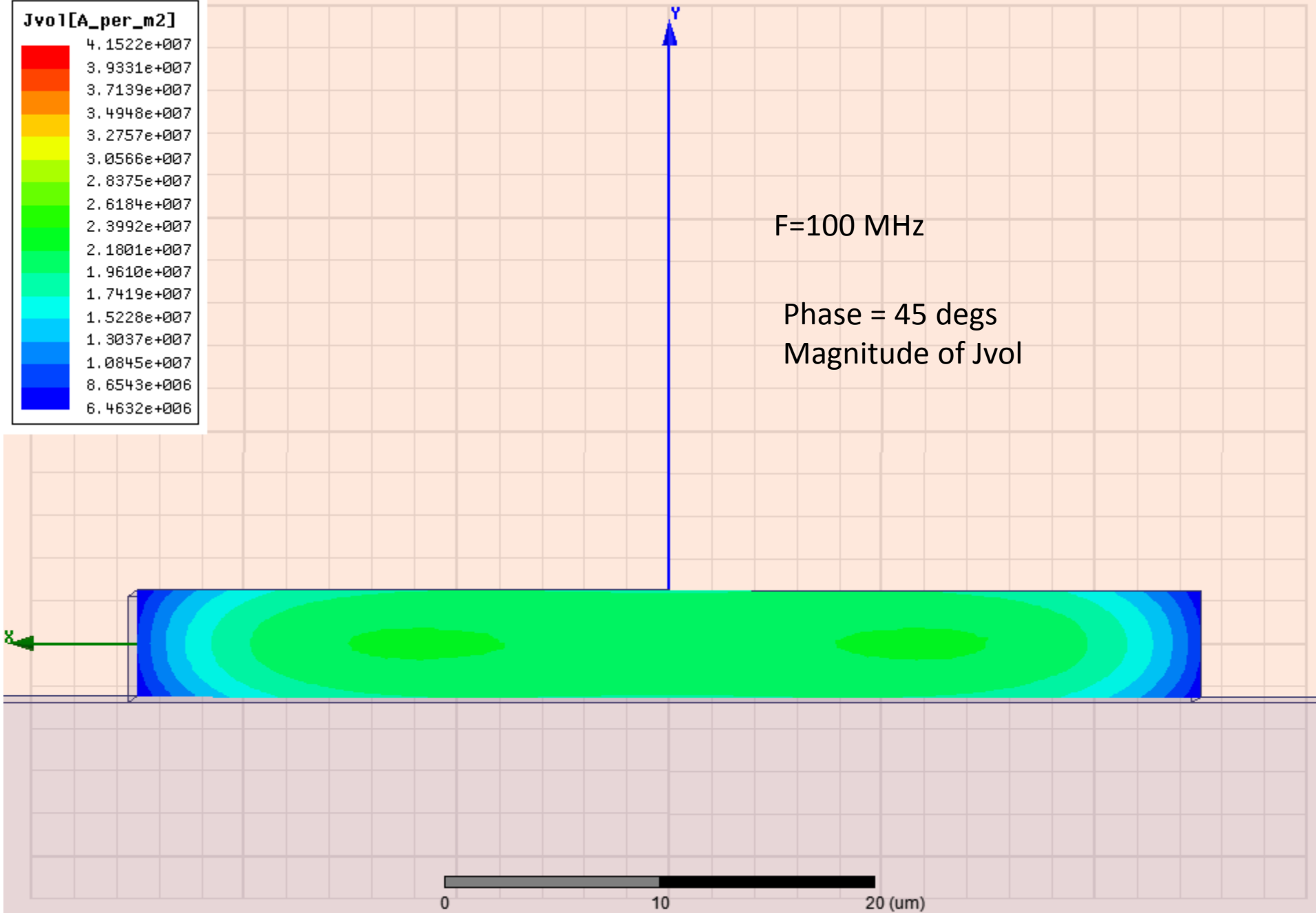
Magnitude of Jvol

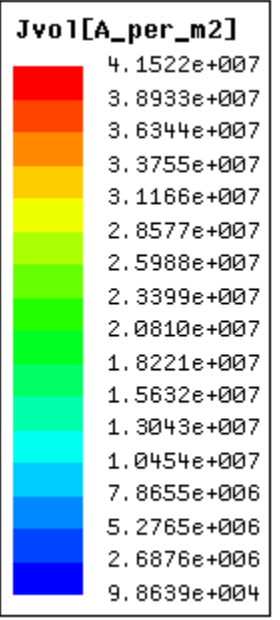




F=100 MHz

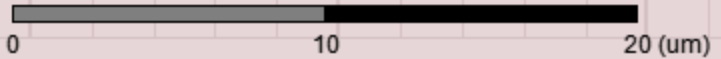
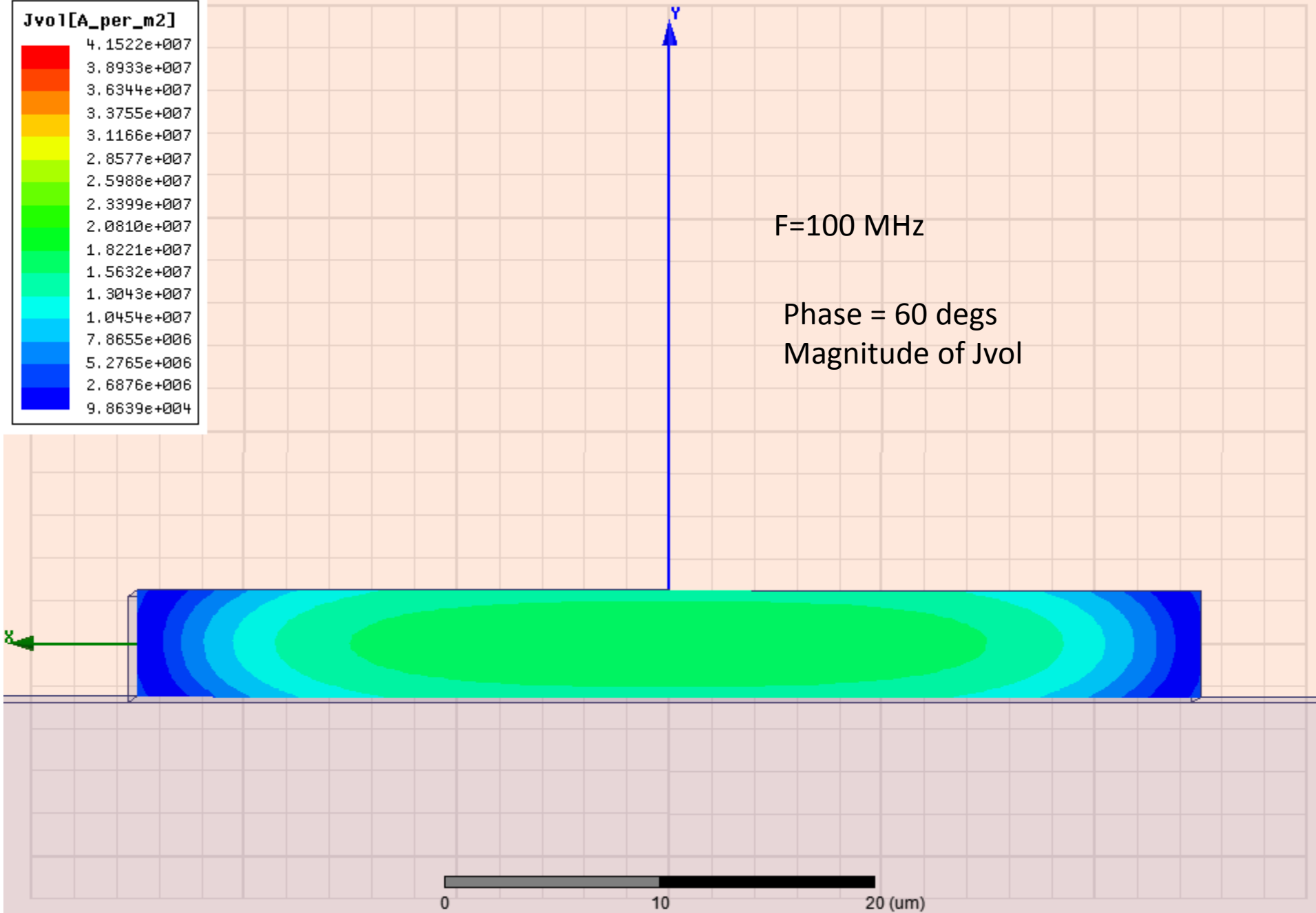
Phase = 45 degs
Magnitude of Jvol

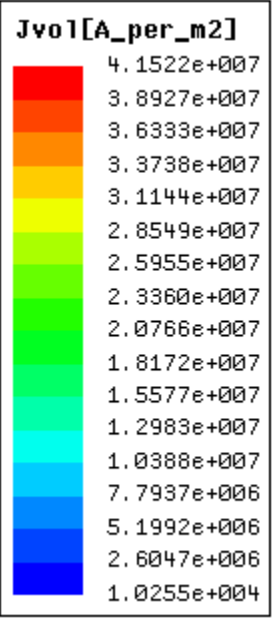




F=100 MHz

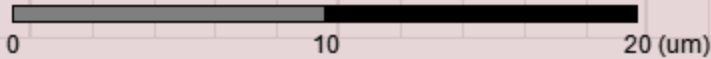
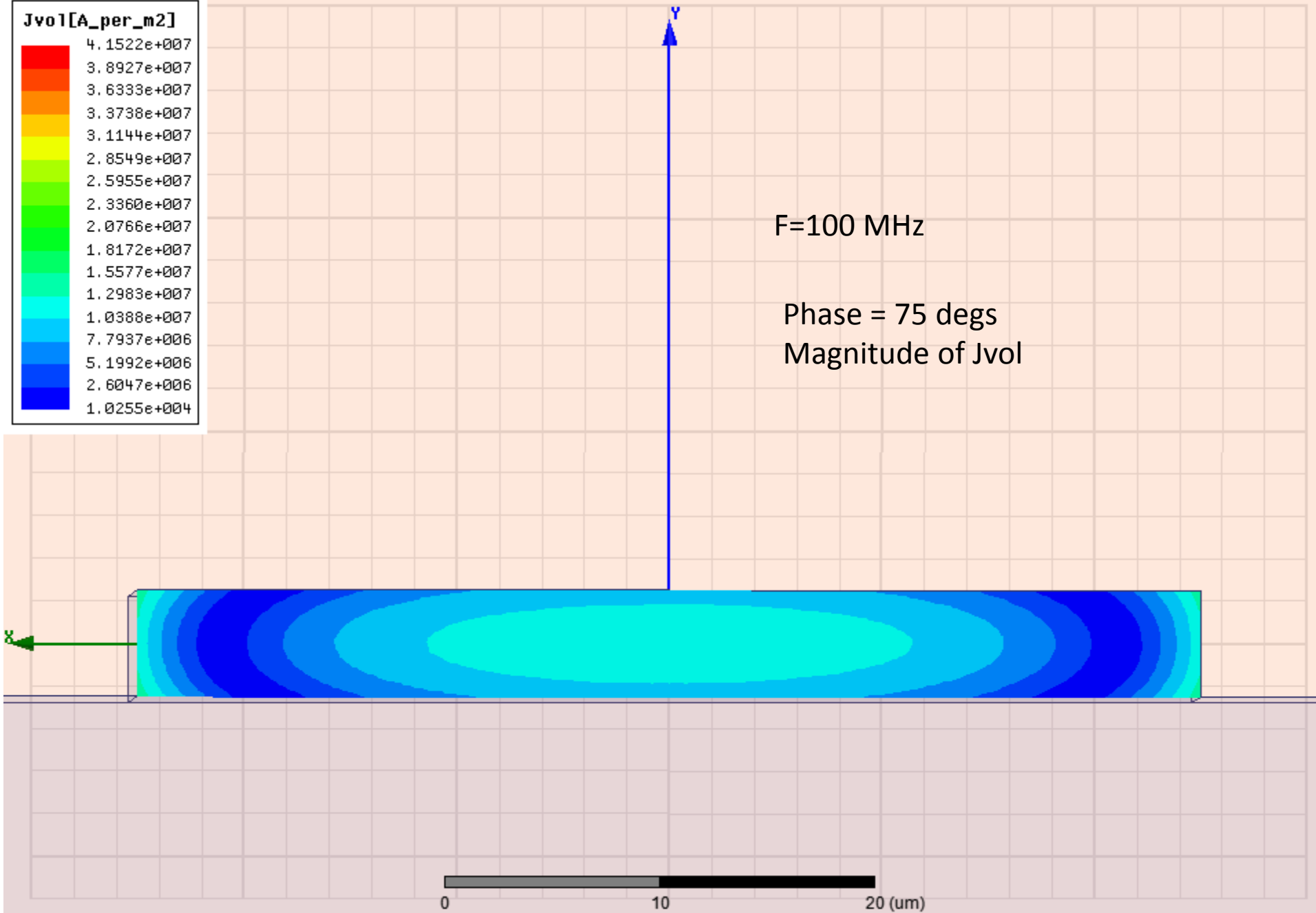
Phase = 60 degs
Magnitude of Jvol

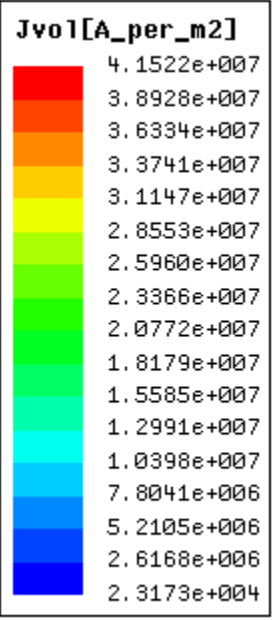




F=100 MHz

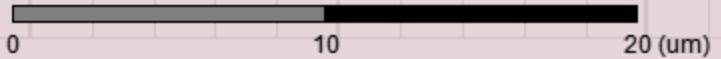
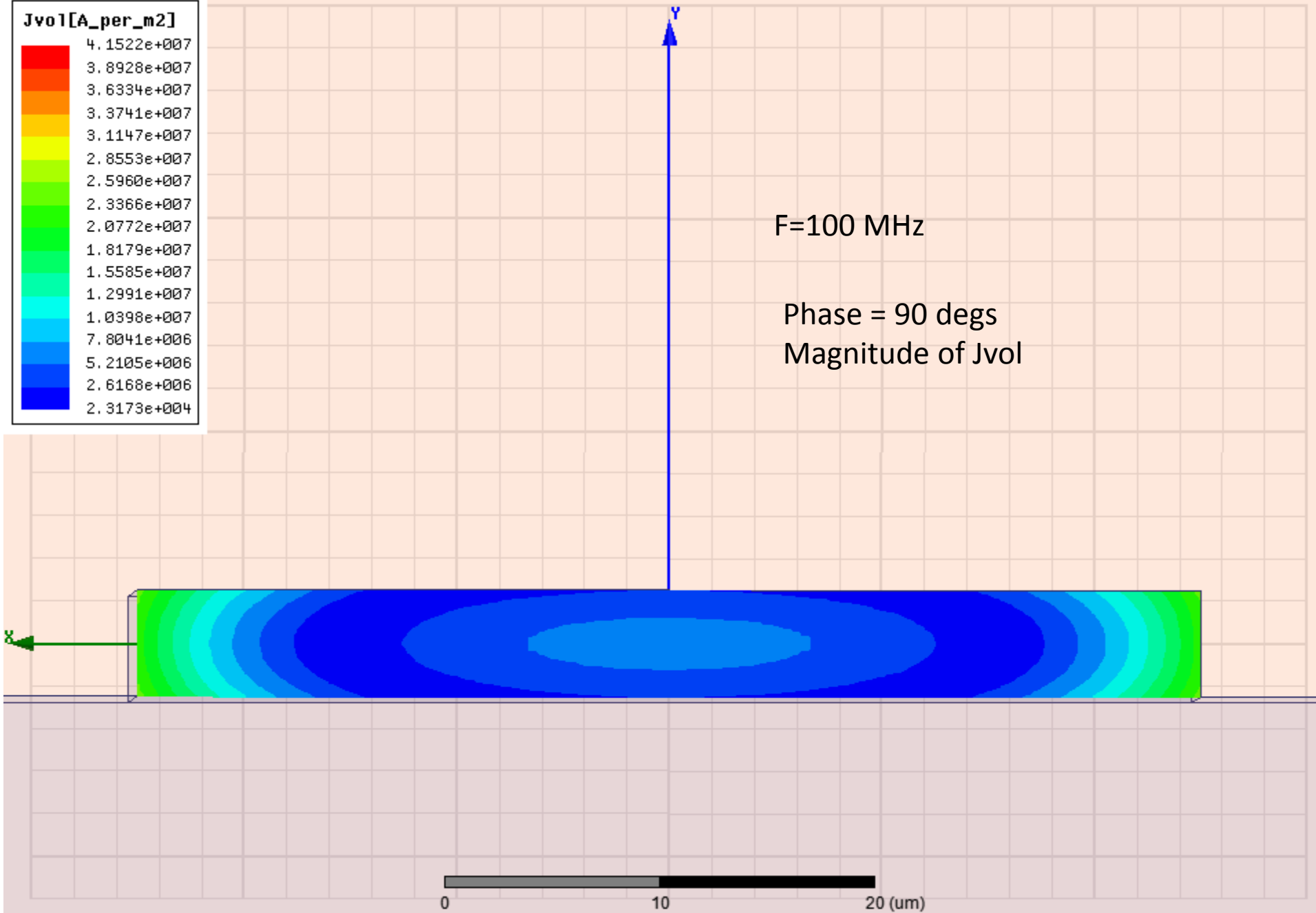
Phase = 75 degs
Magnitude of Jvol

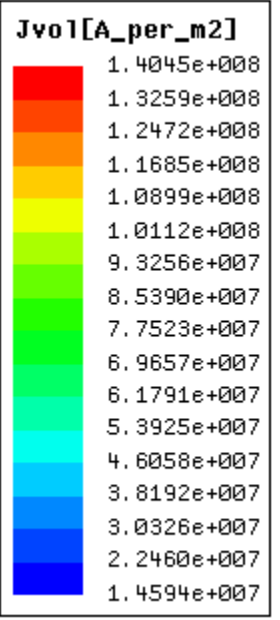




F=100 MHz

Phase = 90 degs
Magnitude of Jvol

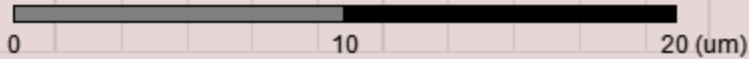


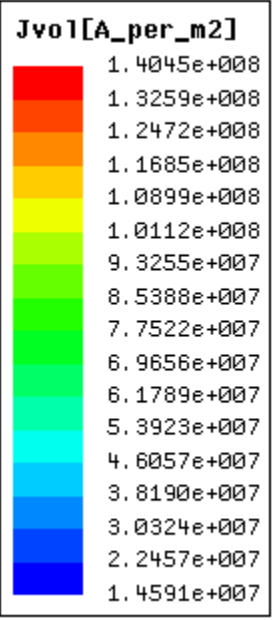


F=1000 MHz

ComplexMagnitude Jvol

Skin depth Cu = 2.1 microns

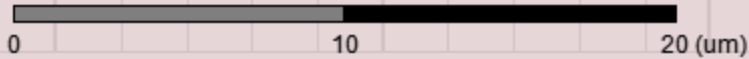


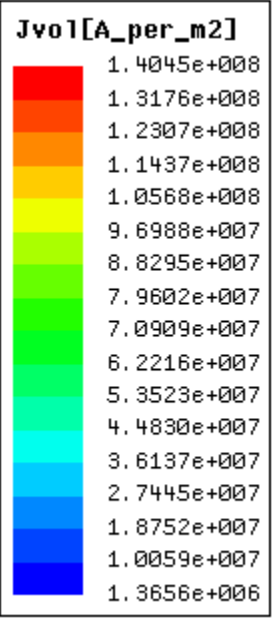


F=1000 MHz

Phase = 0 degs

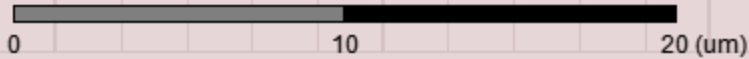
Magnitude of Jvol

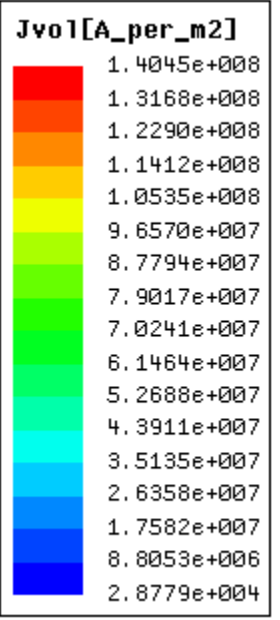




F=1000 MHz

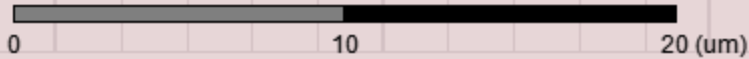
Phase = 45 degs
Magnitude of Jvol

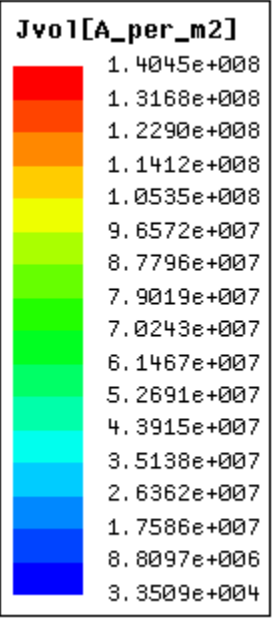




F=1000 MHz

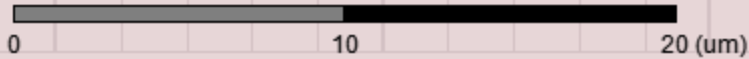
Phase = 70 degs
Magnitude of Jvol

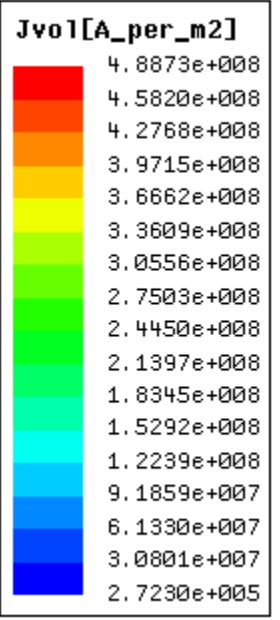




F=1000 MHz

Phase = 90 degs
Magnitude of Jvol

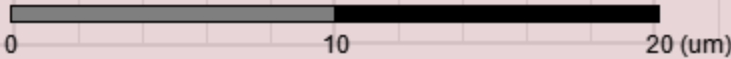
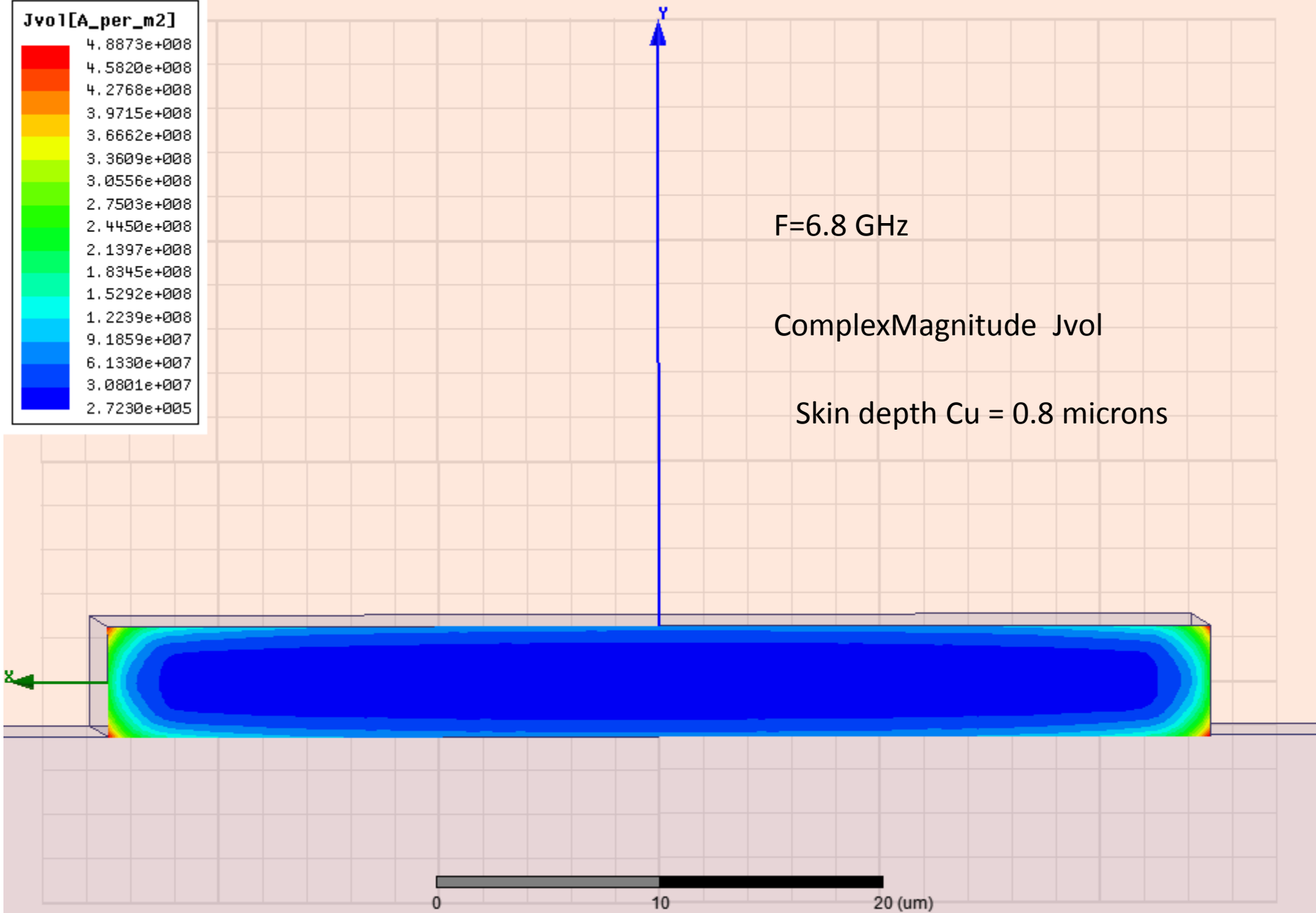


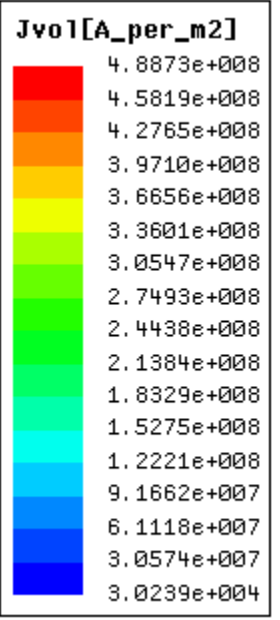


F=6.8 GHz

ComplexMagnitude Jvol

Skin depth Cu = 0.8 microns

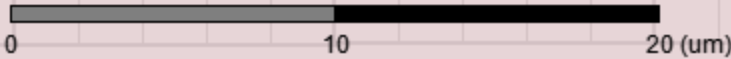
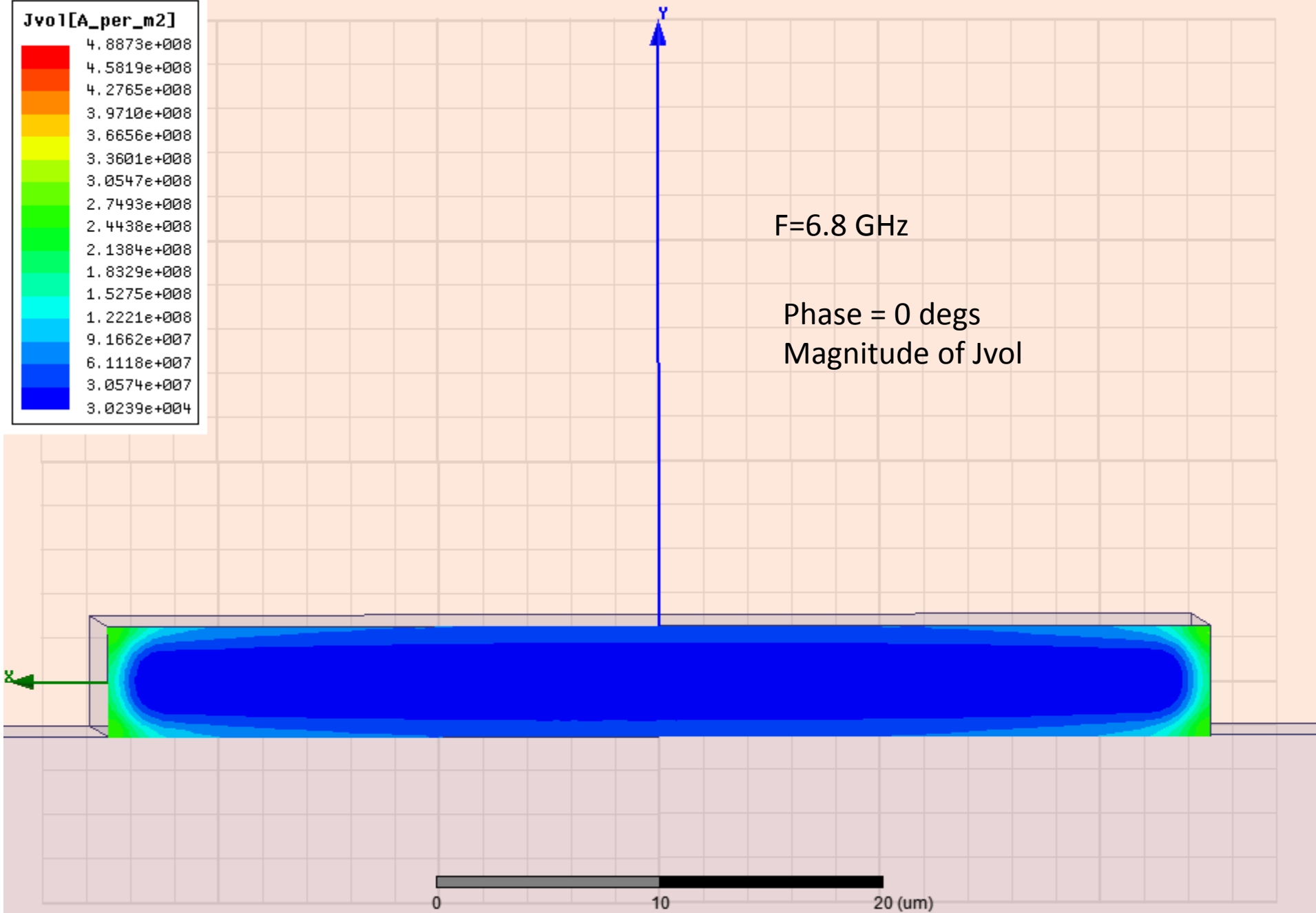


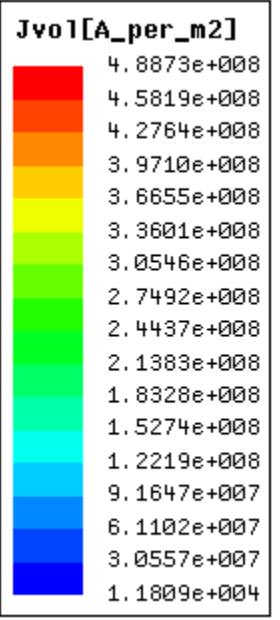


F=6.8 GHz

Phase = 0 degs

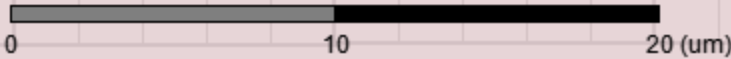
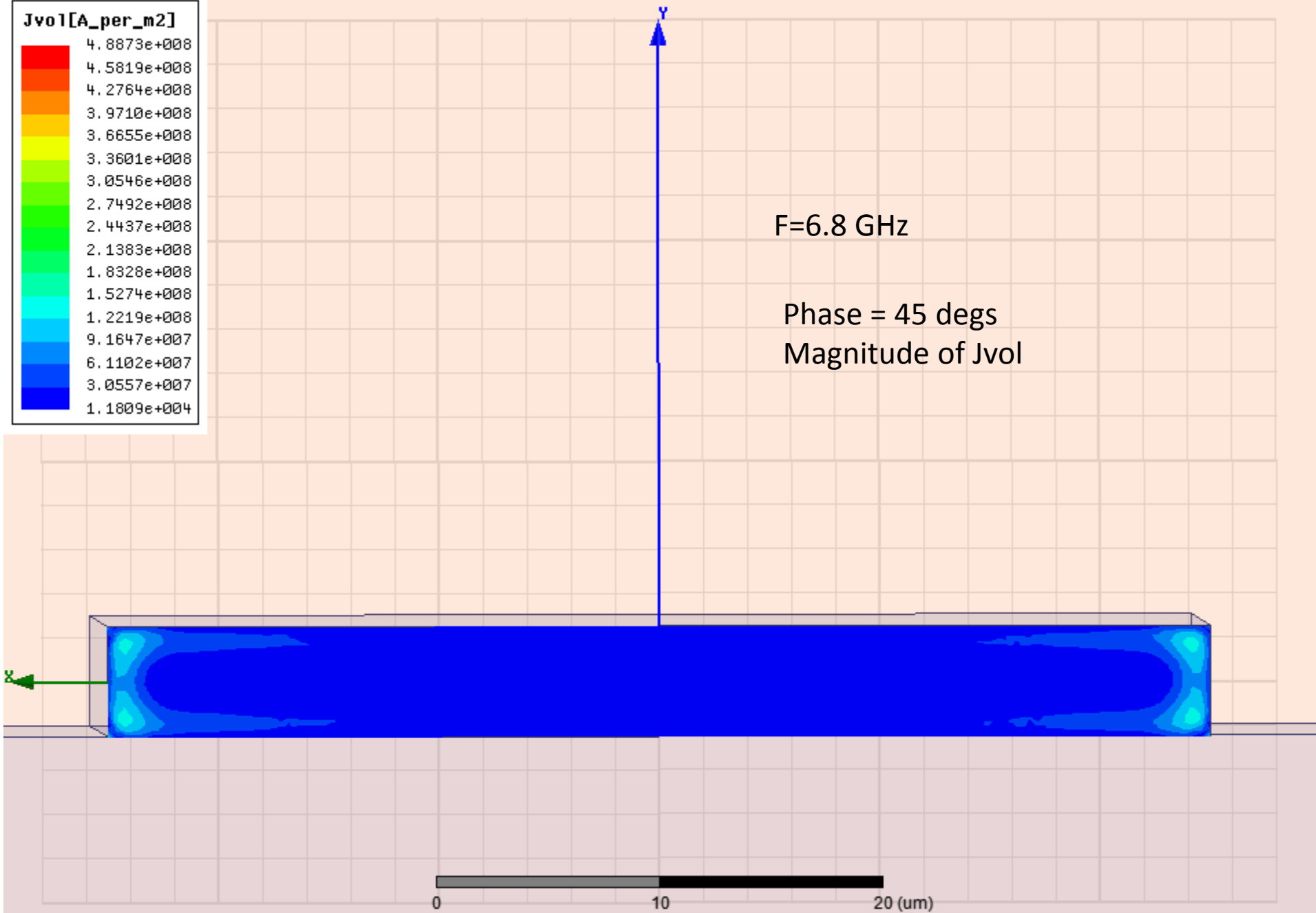
Magnitude of Jvol

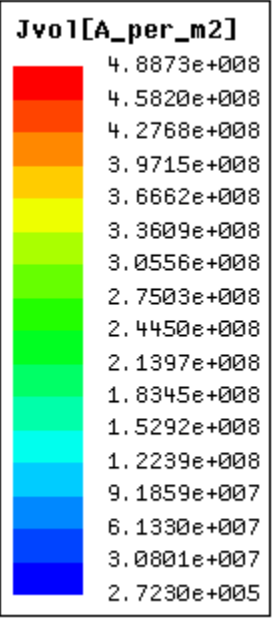




F=6.8 GHz

Phase = 45 degs
Magnitude of Jvol





F=6.8 GHz

Phase = 90 degs
Magnitude of Jvol

