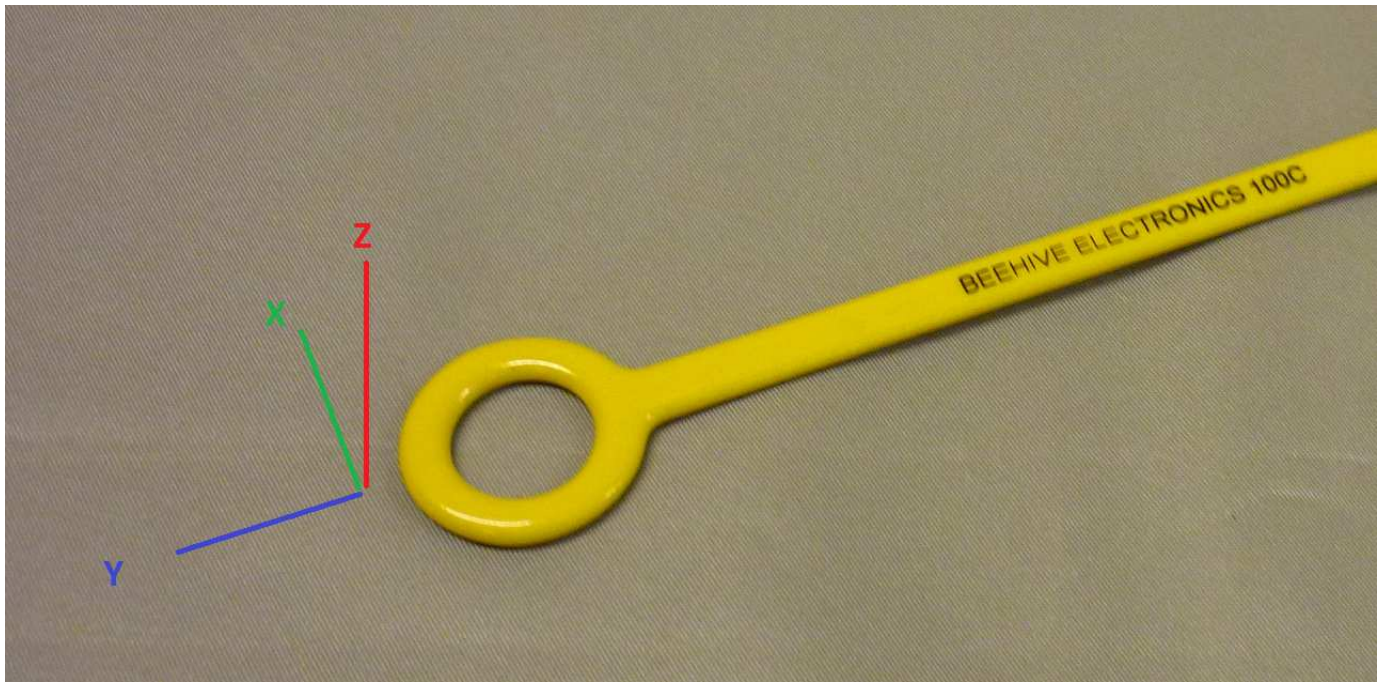
beehive ELECTRONICS

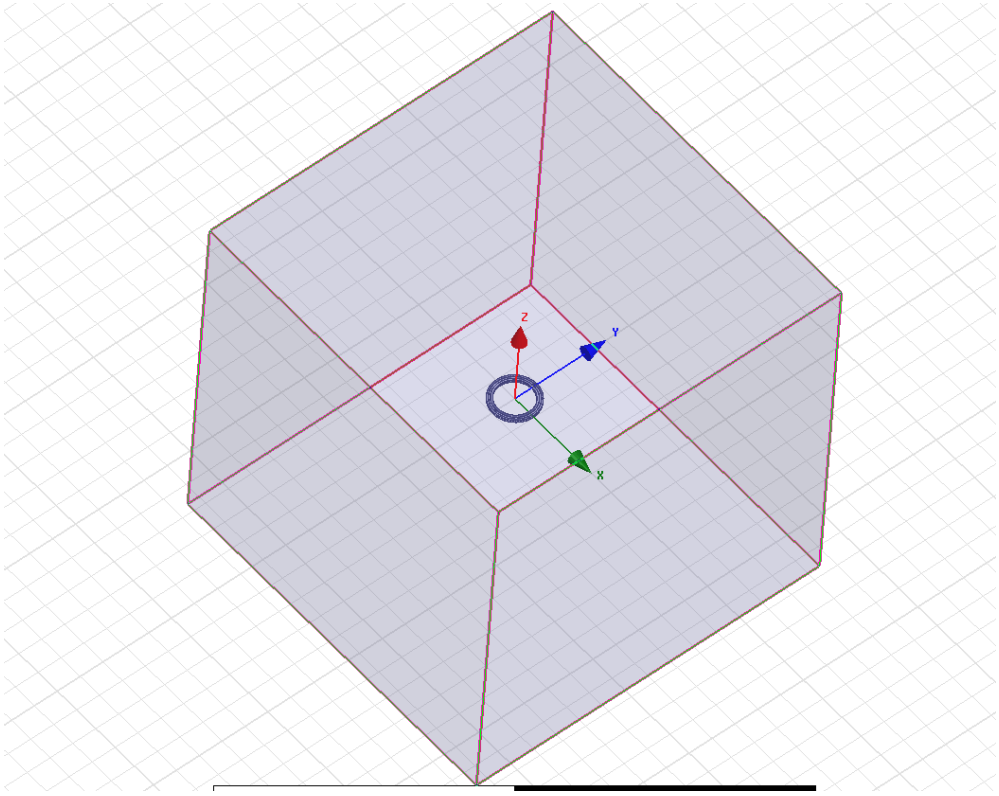
100C probe magnetic field distribution

Model Setup



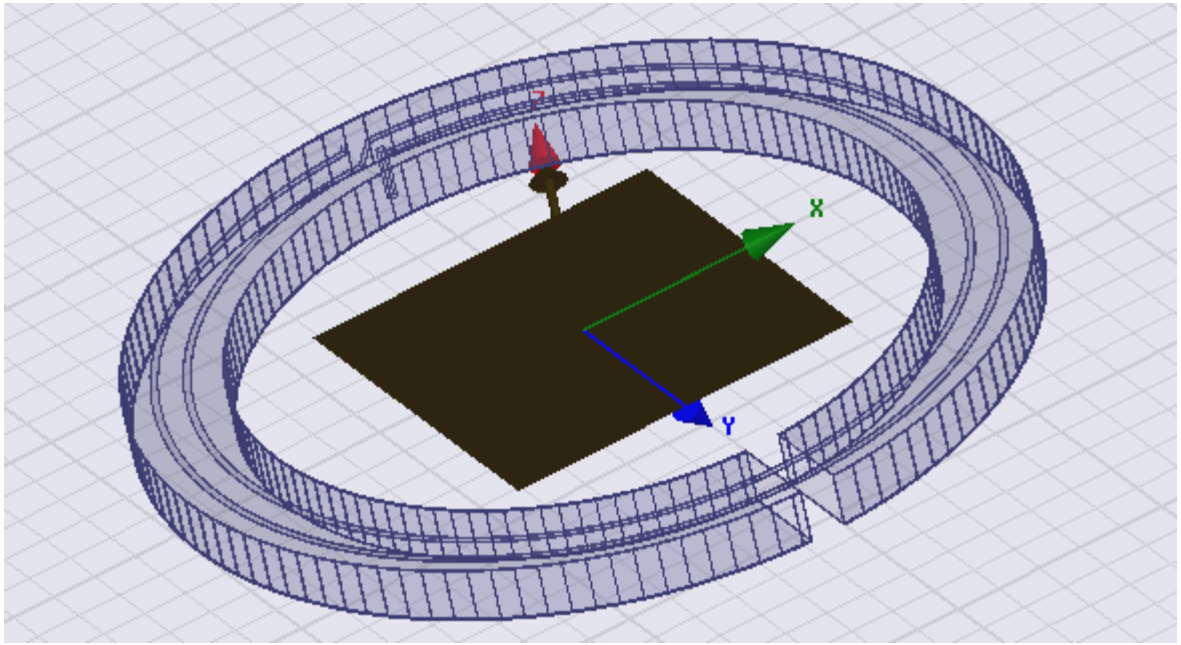
- Simulation frequency: 100 MHz
- The loop is being driven by a 50 ohm, +10 dBm source.

Model Setup



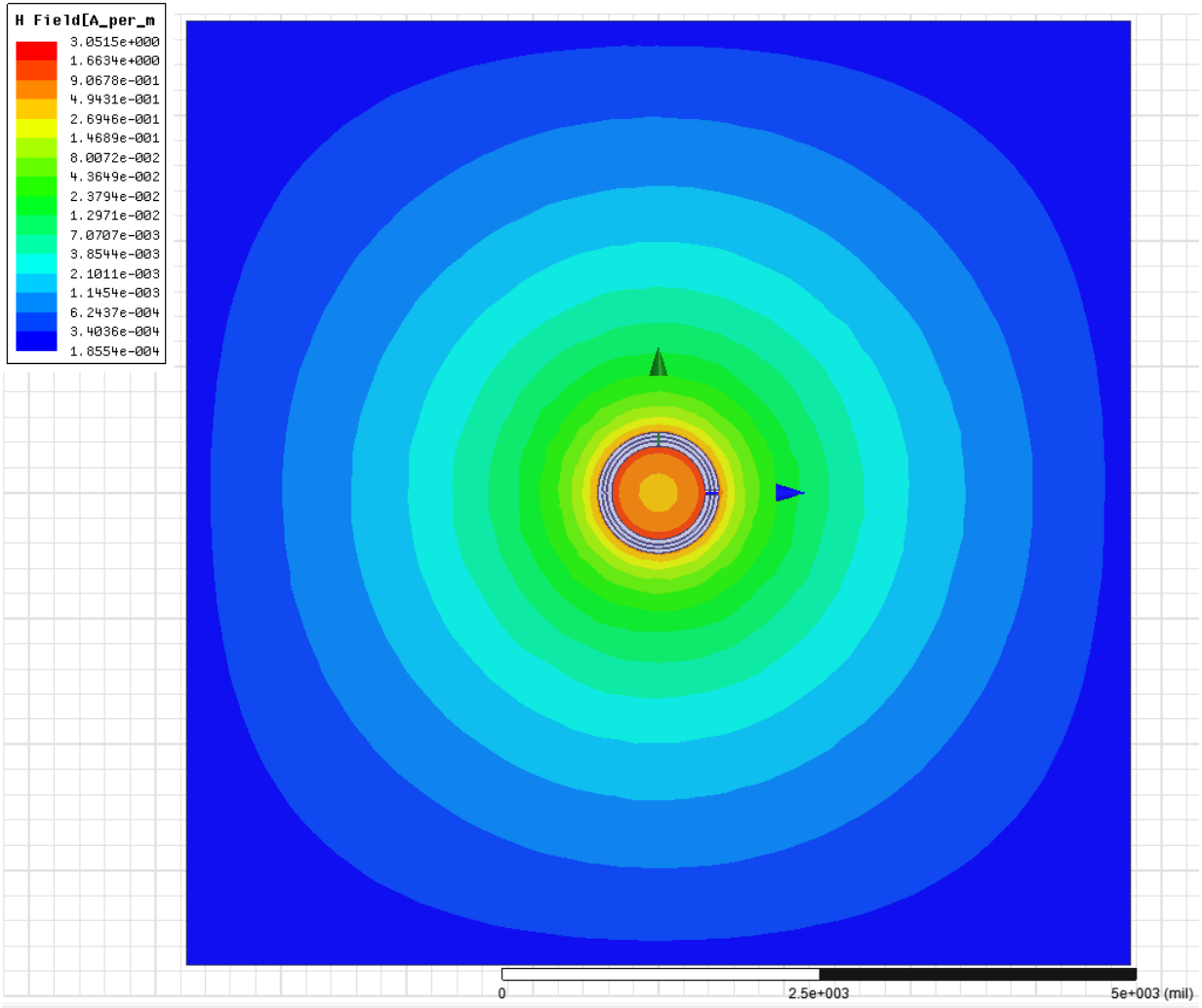
- Fields are simulation in a volume of 7.5” x 7.5” x 7.5”.

Results in XY planes



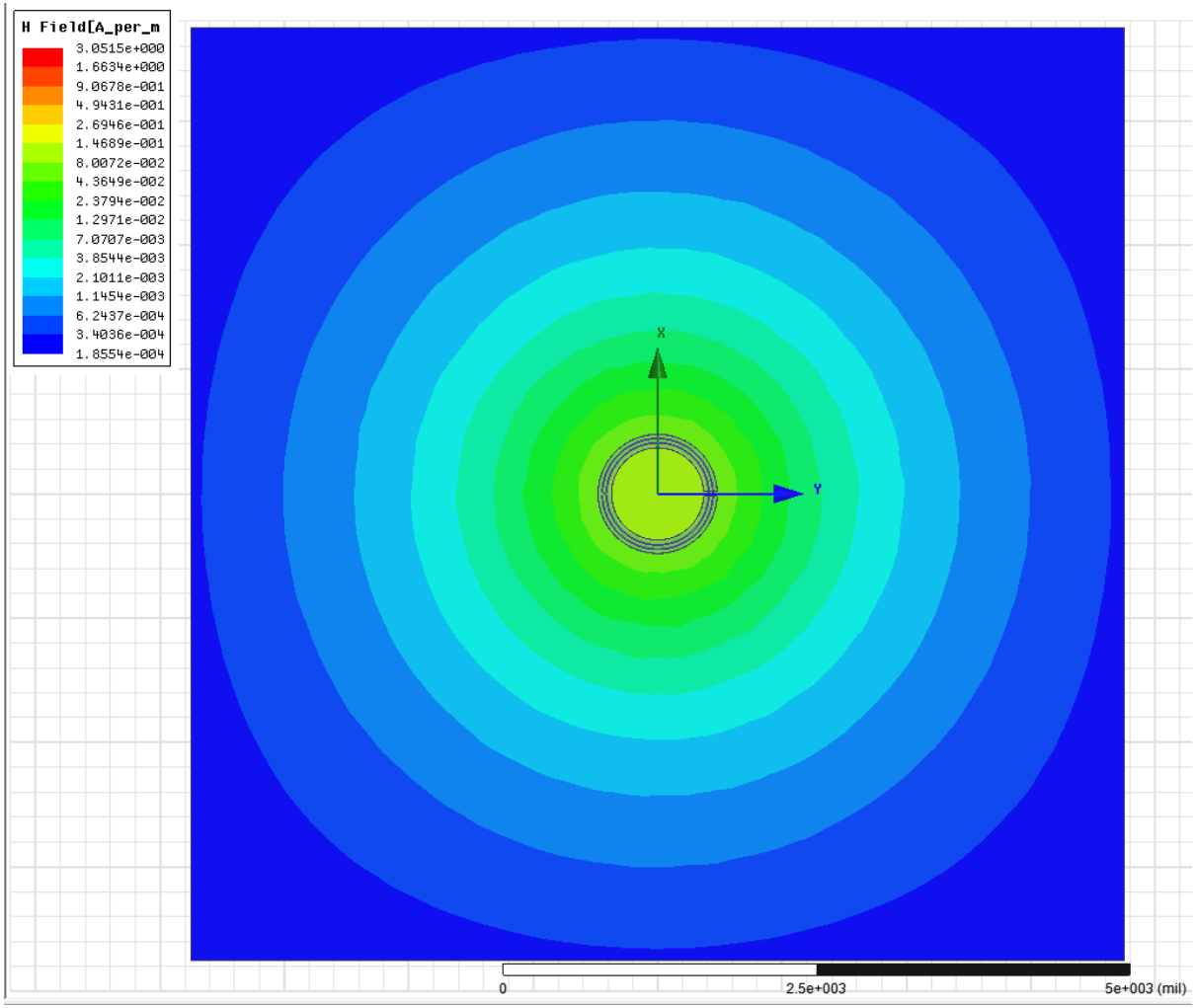
XY plane shown above, with Z offset of 0”

Results in XY plane
Z=0”



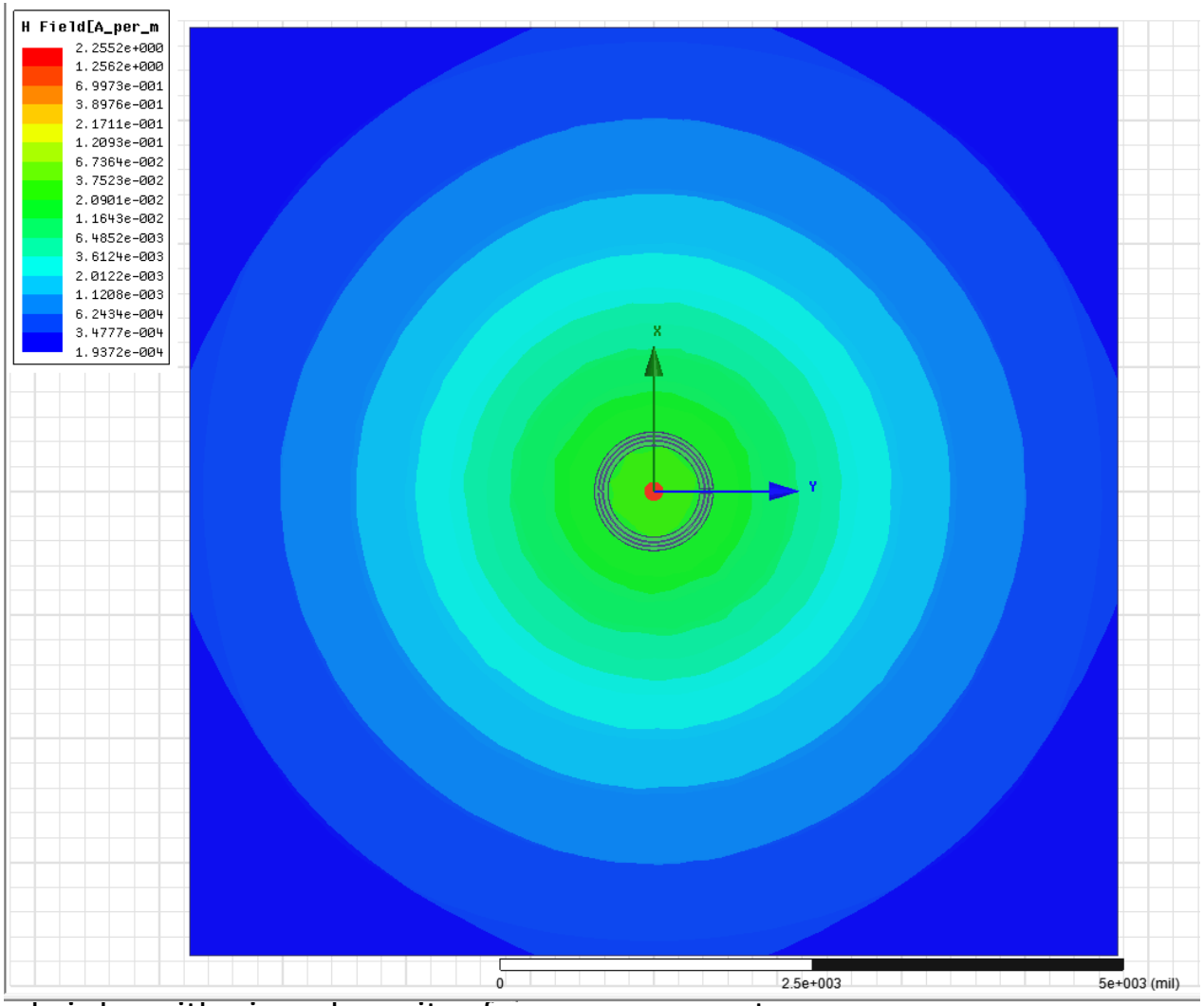
- XY plane shown above, with Z offset of 0”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).

Results in XY plane
Z=0.5”



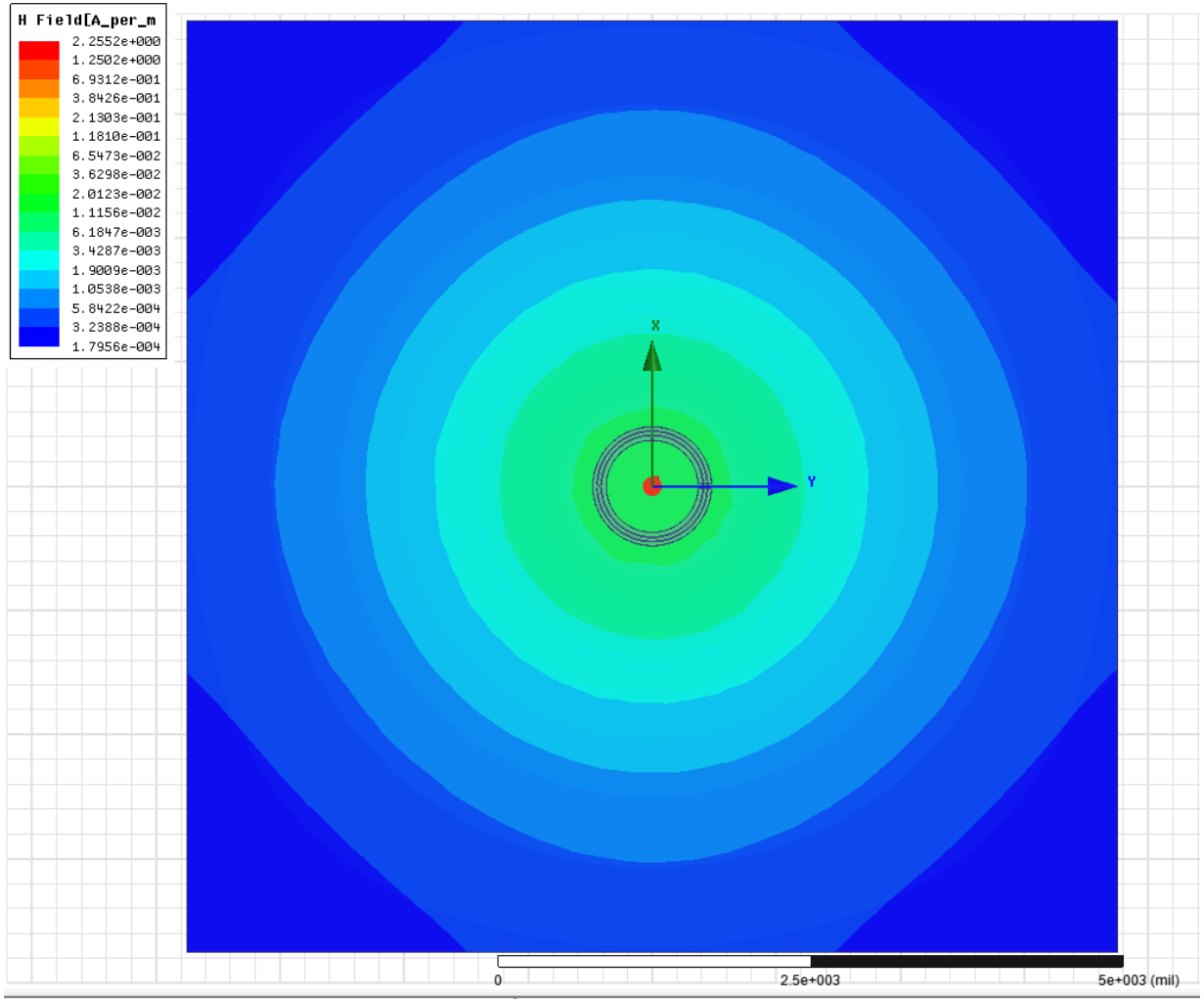
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).
- Plane is 0.5” above the plane of the loop.

Results in XY plane
Z=1.0”



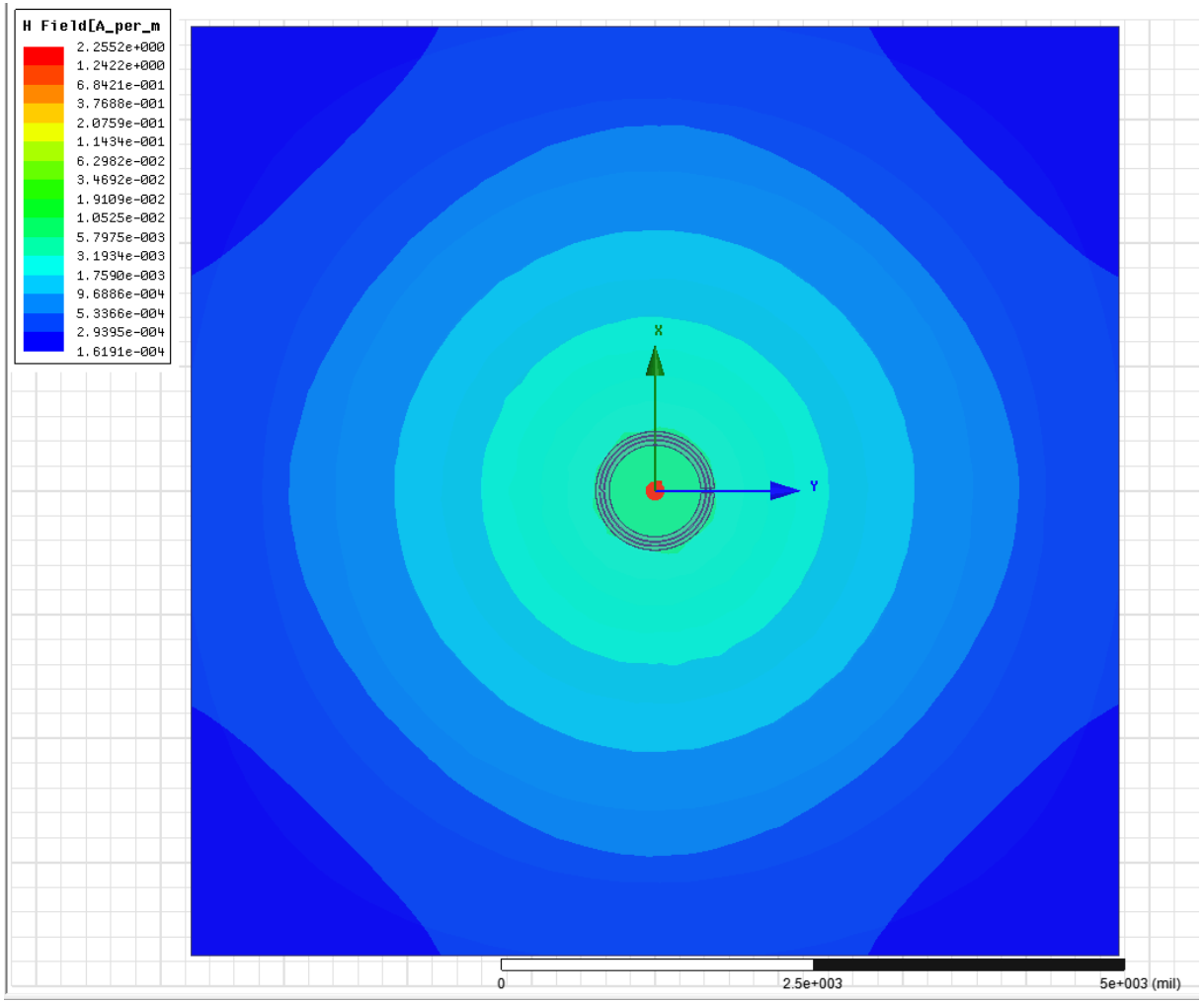
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).
- Plane is 1.0” above the plane of the loop.

Results in XY plane
Z=1.5”



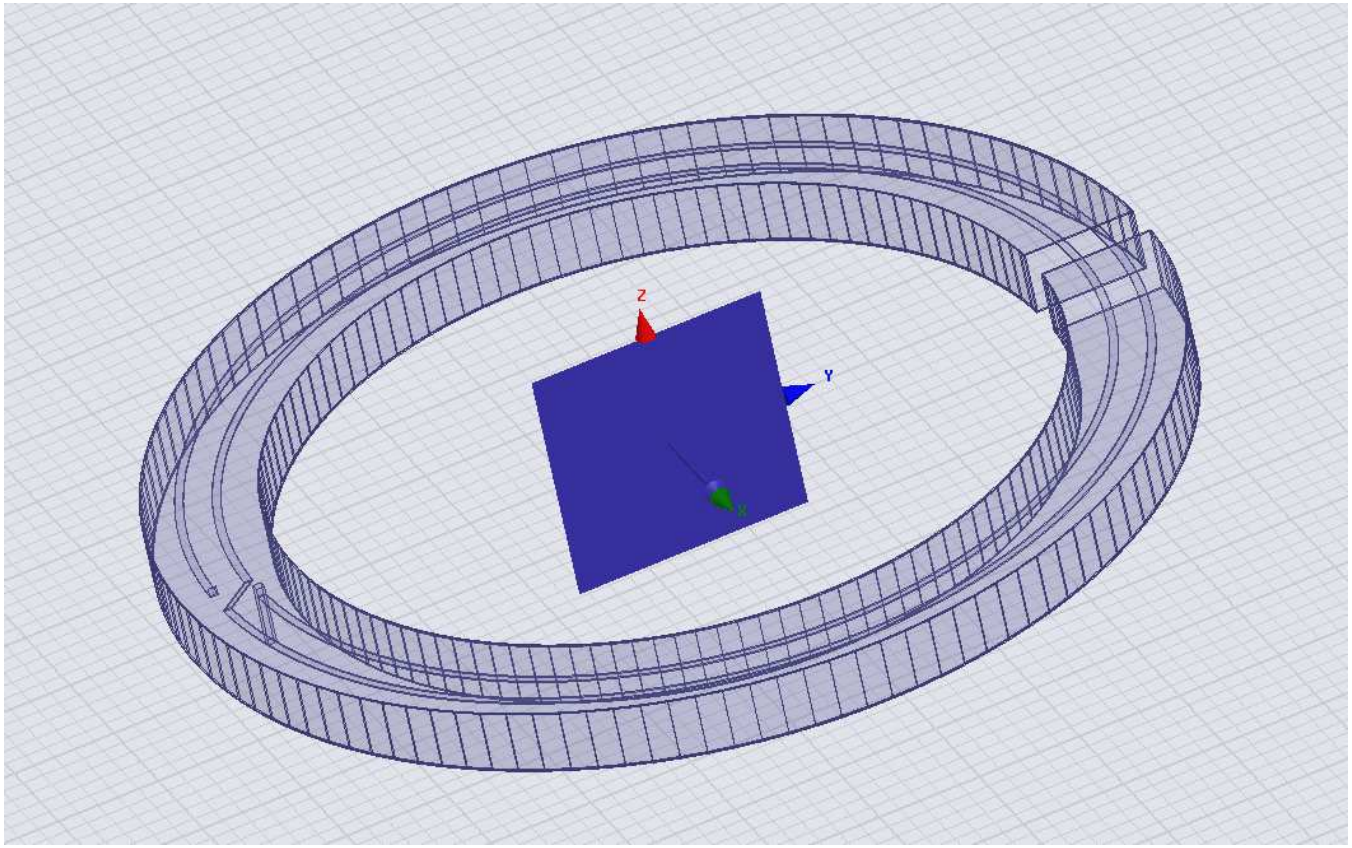
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).
- Plane is 1.5” above the plane of the loop.

Results in XY plane
Z=2.0”



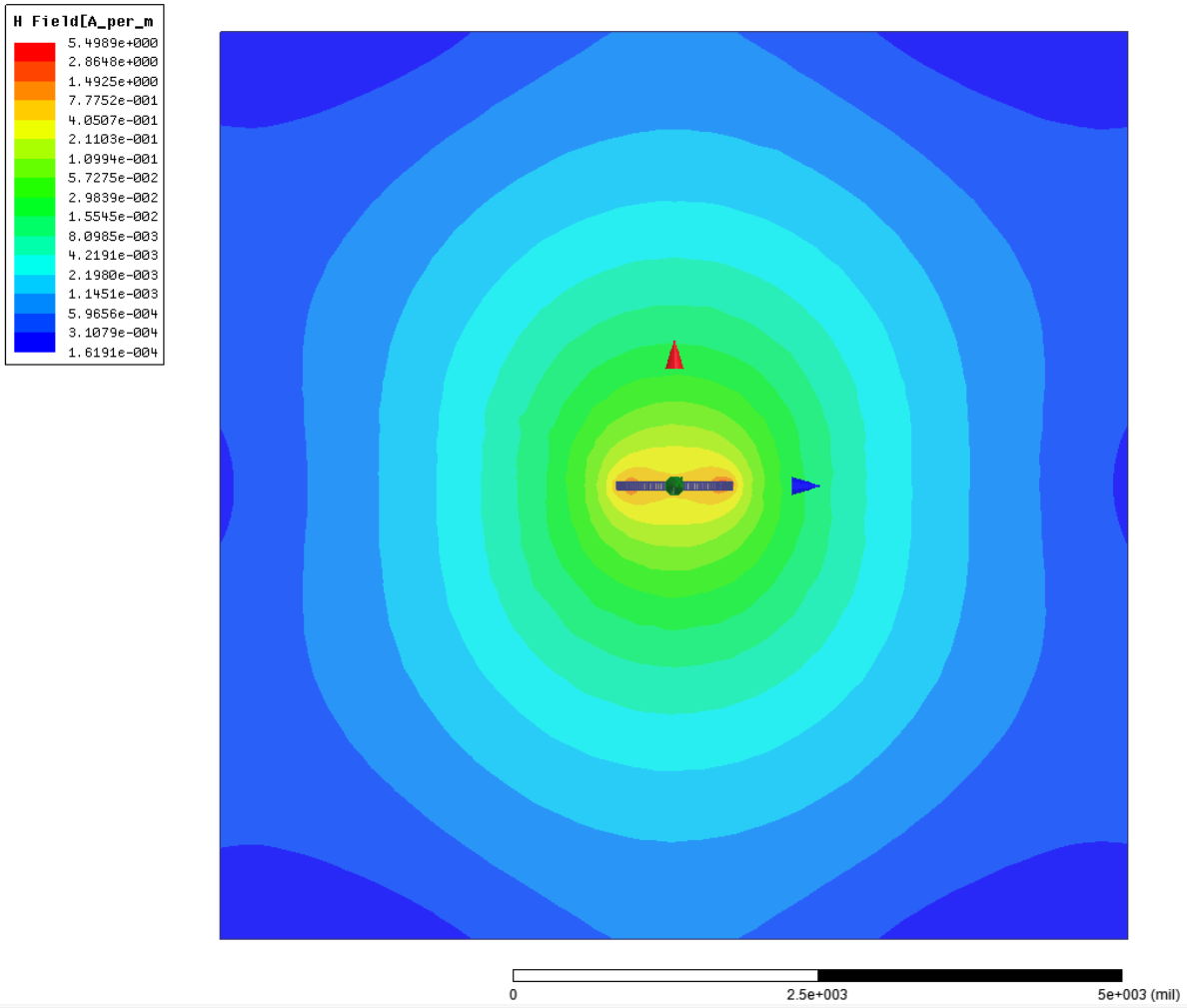
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).
- Plane is 2.0” above the plane of the loop.

Results in YZ planes



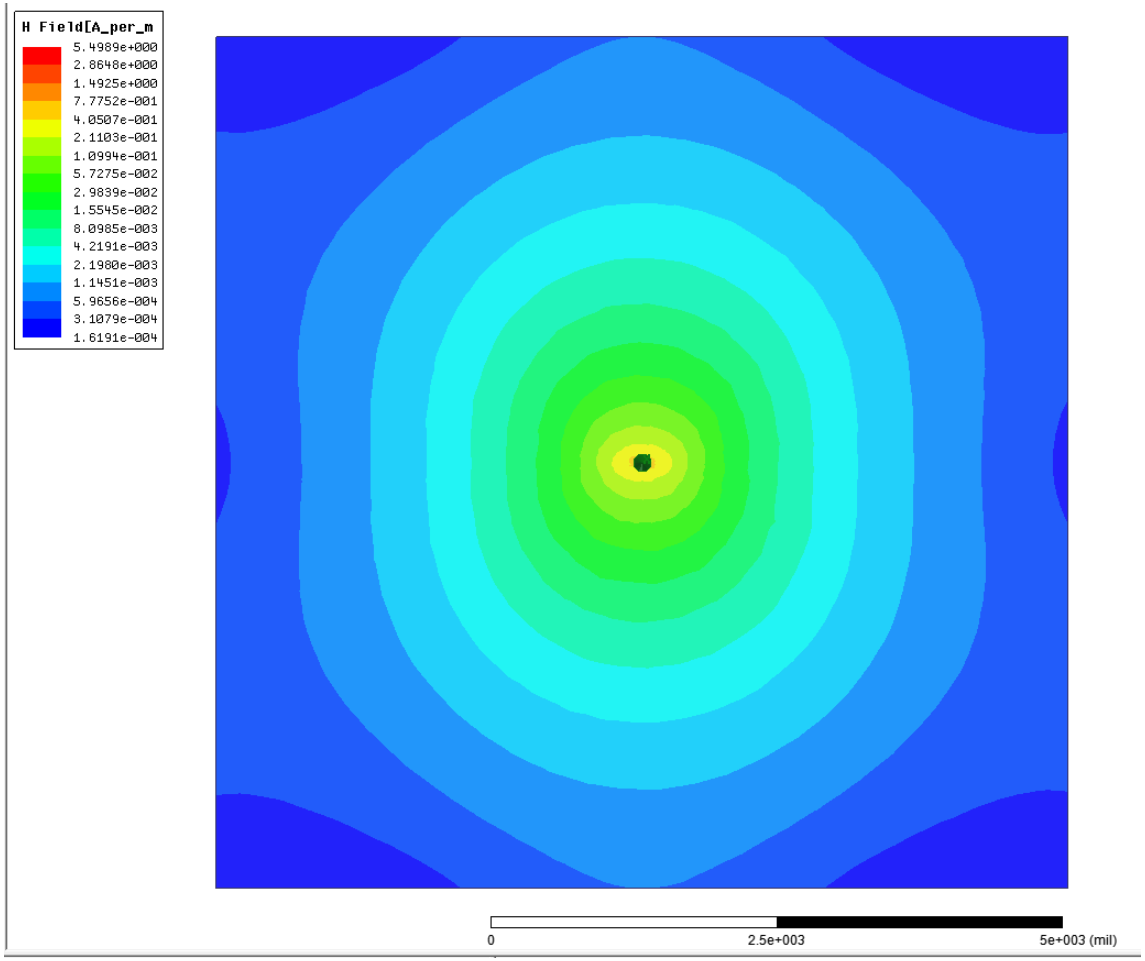
YZ plane shown above, with X offset of 0”

Results in YZ plane
X=0”



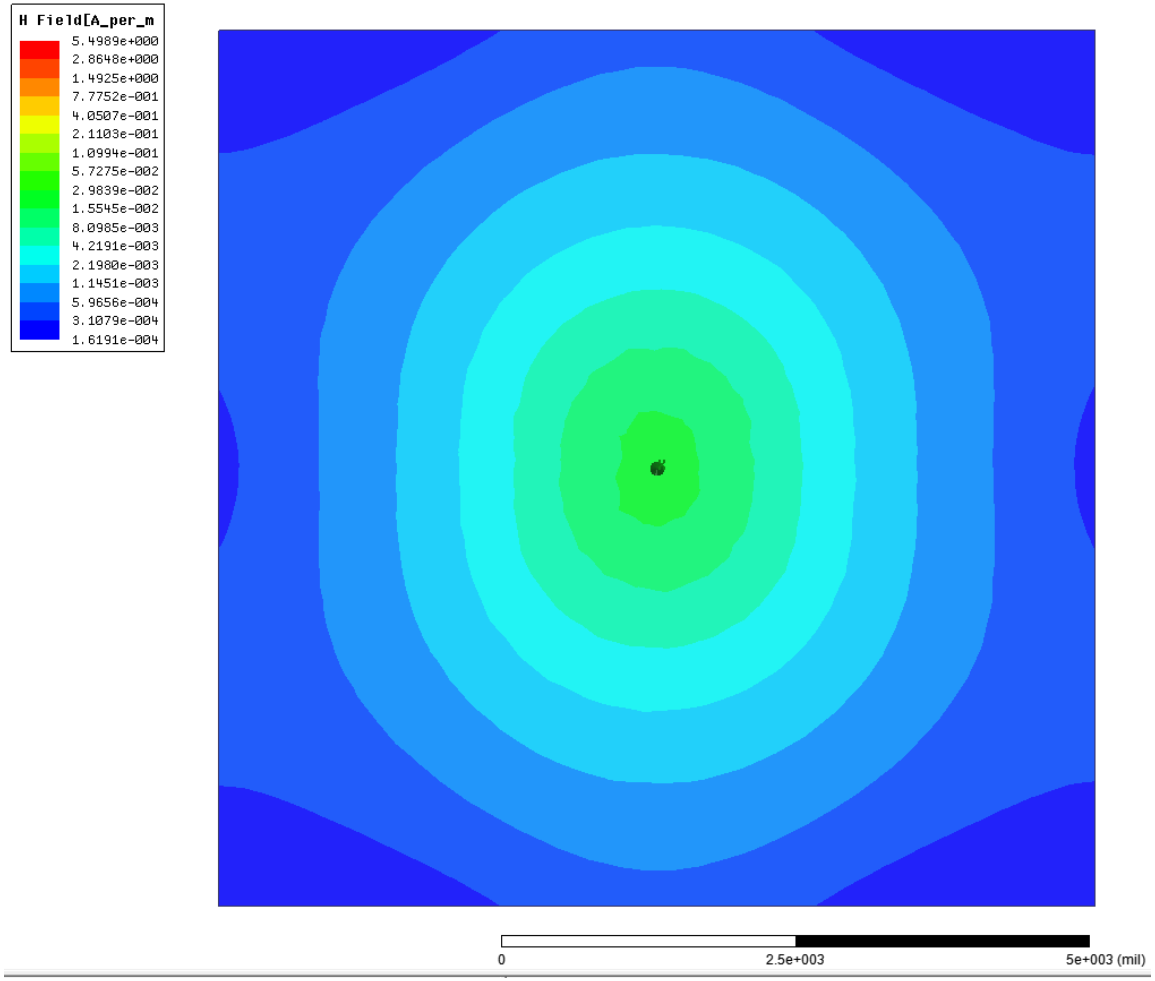
- YZ plane shown above, with X offset of 0”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).

Results in YZ plane
X=0.5”



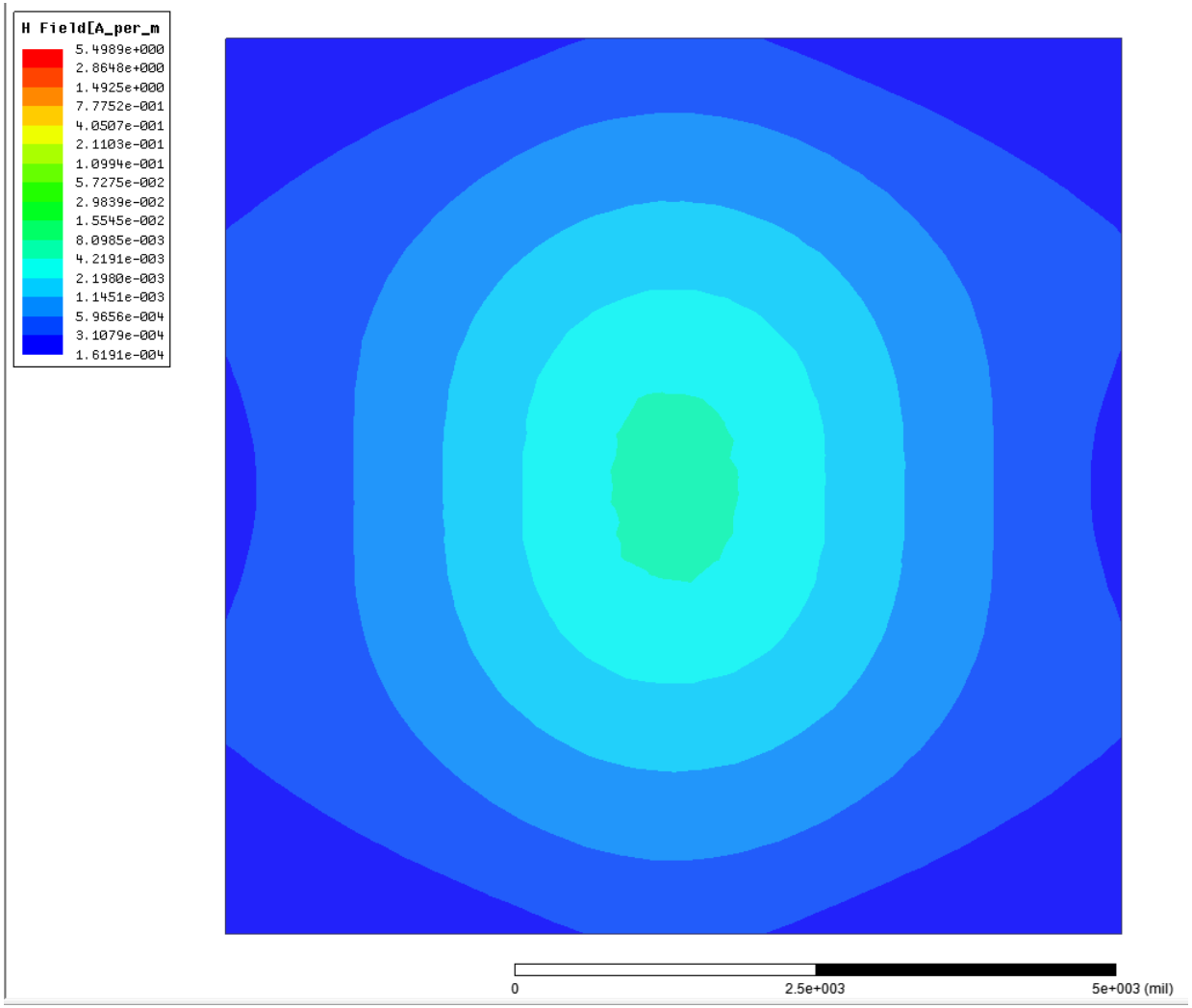
- YZ plane shown above, with X offset of 0.5”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).

Results in YZ plane
X=1.0”



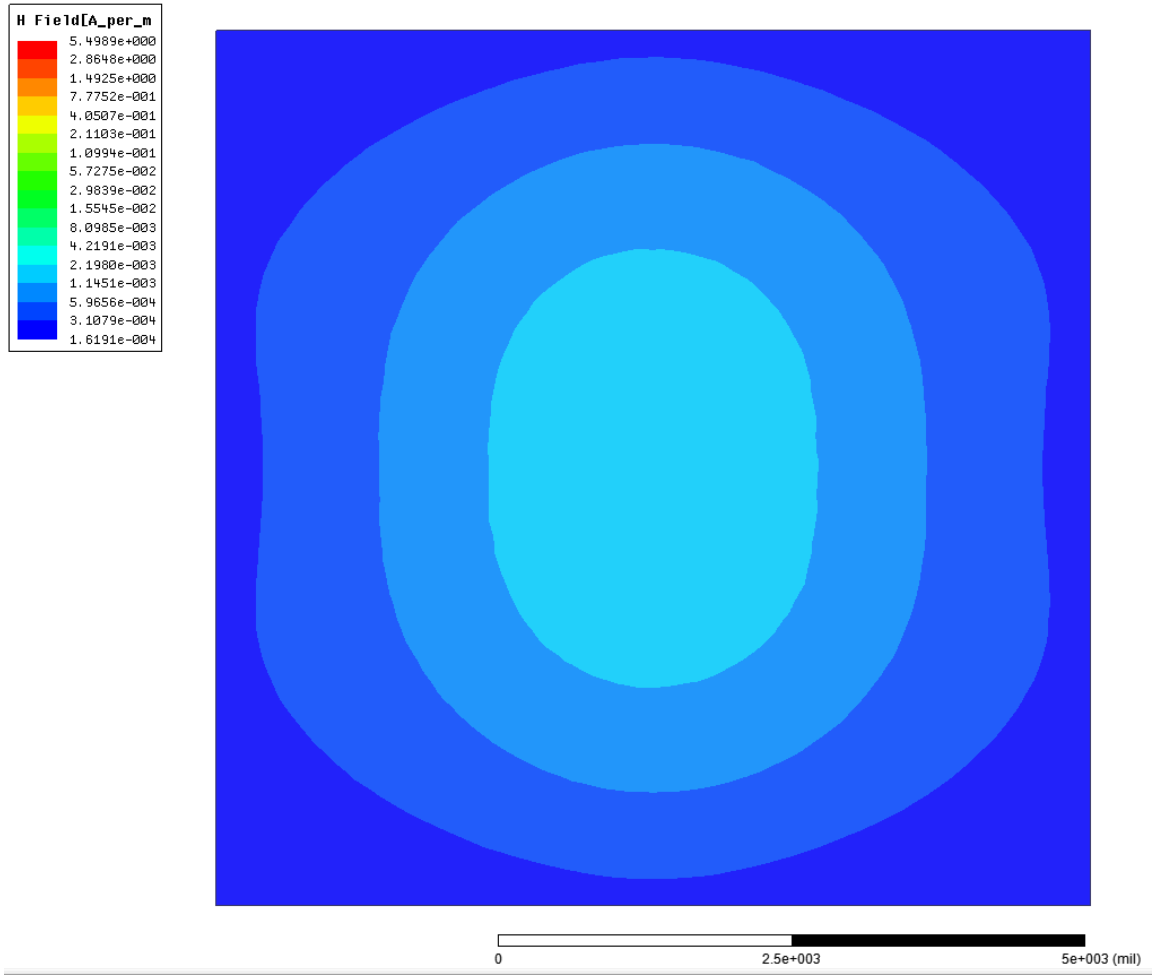
- YZ plane shown above, with X offset of 1.0”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).

Results in YZ plane
X=1.5”



- YZ plane shown above, with X offset of 1.5”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).

Results in YZ plane
X=2.0”



- YZ plane shown above, with X offset of 2.0”
- Color code is logarithmic scale; units of amperes per meter
- Distance scale at bottom of plot is in units of mils (0.001”).