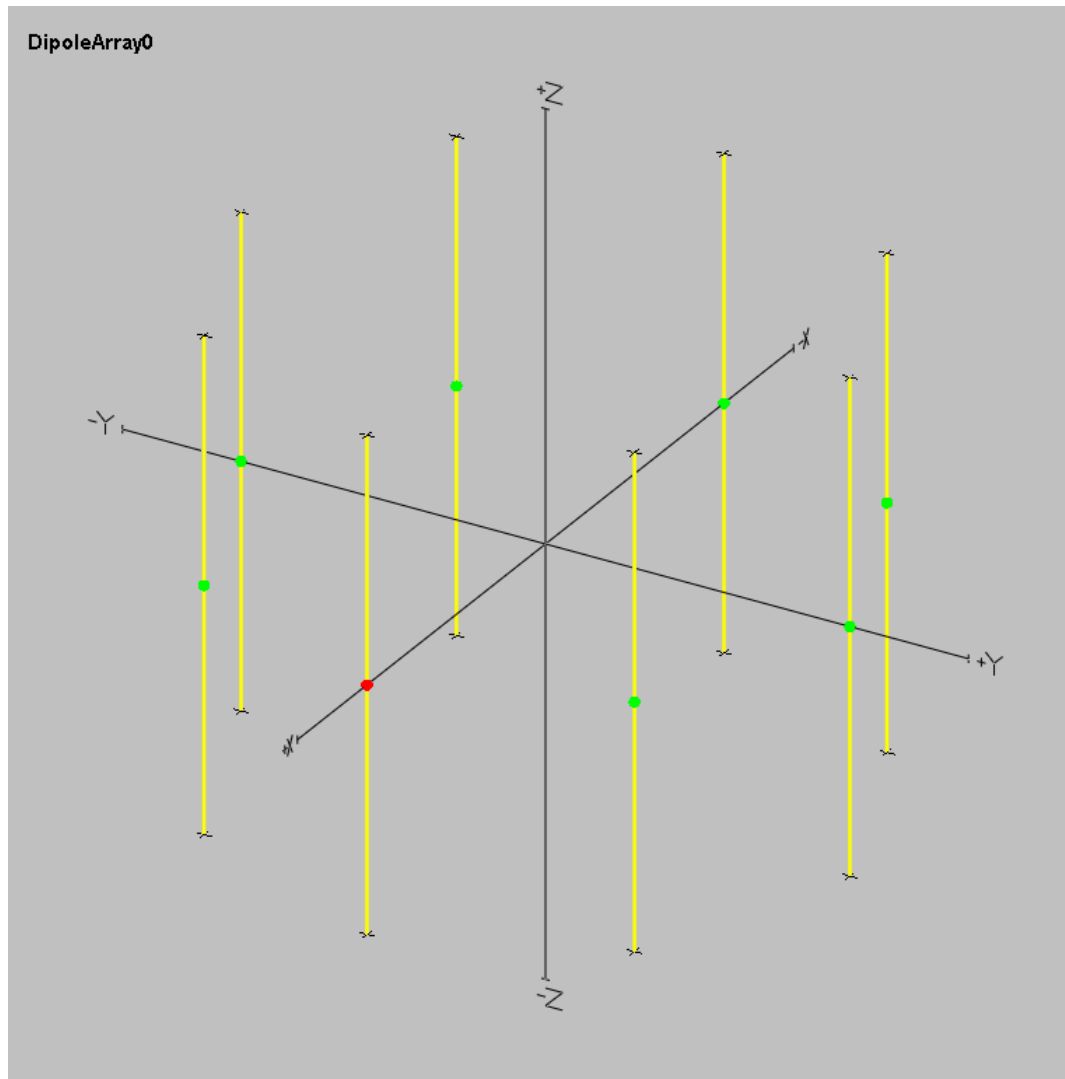
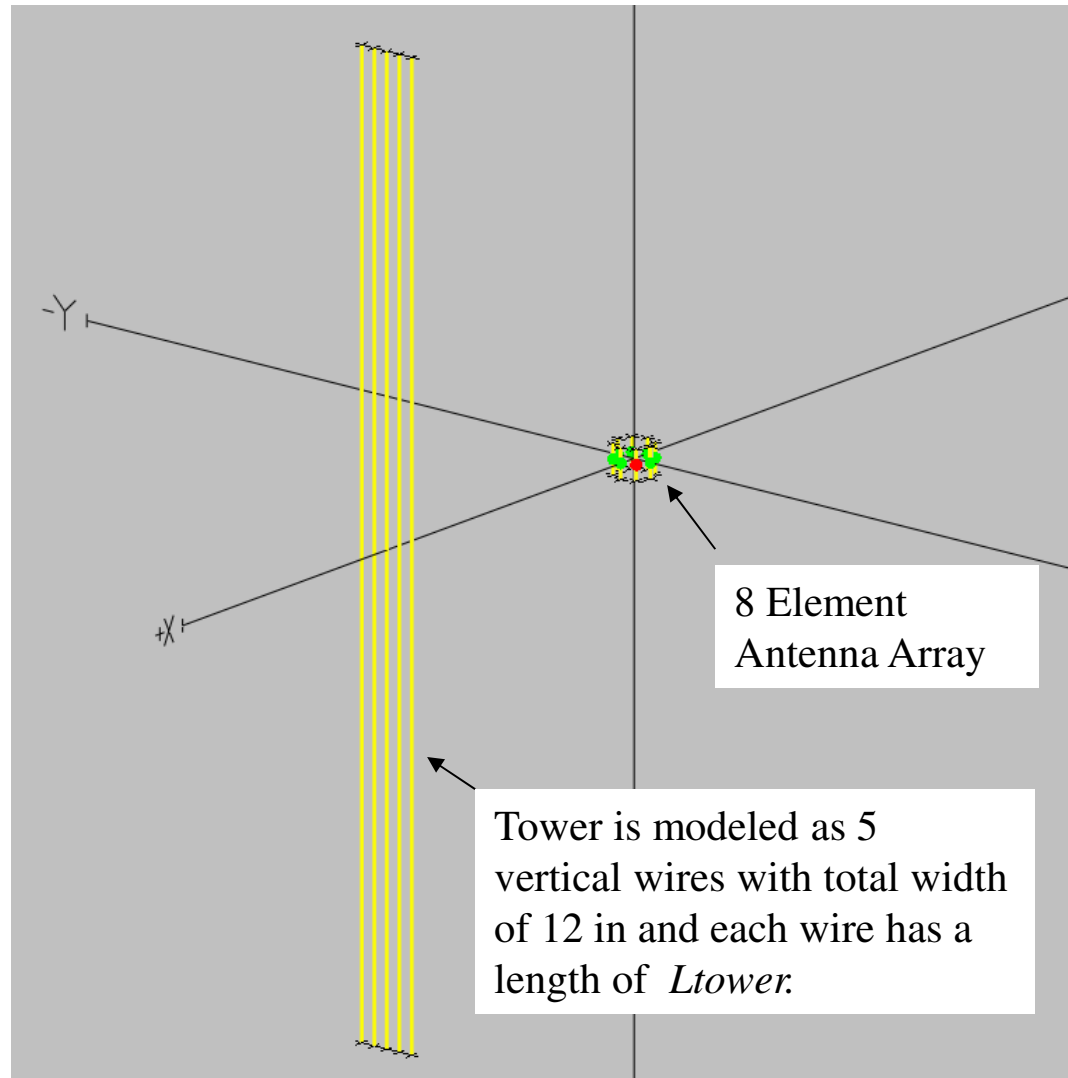


Doppler DF Error Analysis

Contribution due to side arm
mounting a DF antenna on a
tower



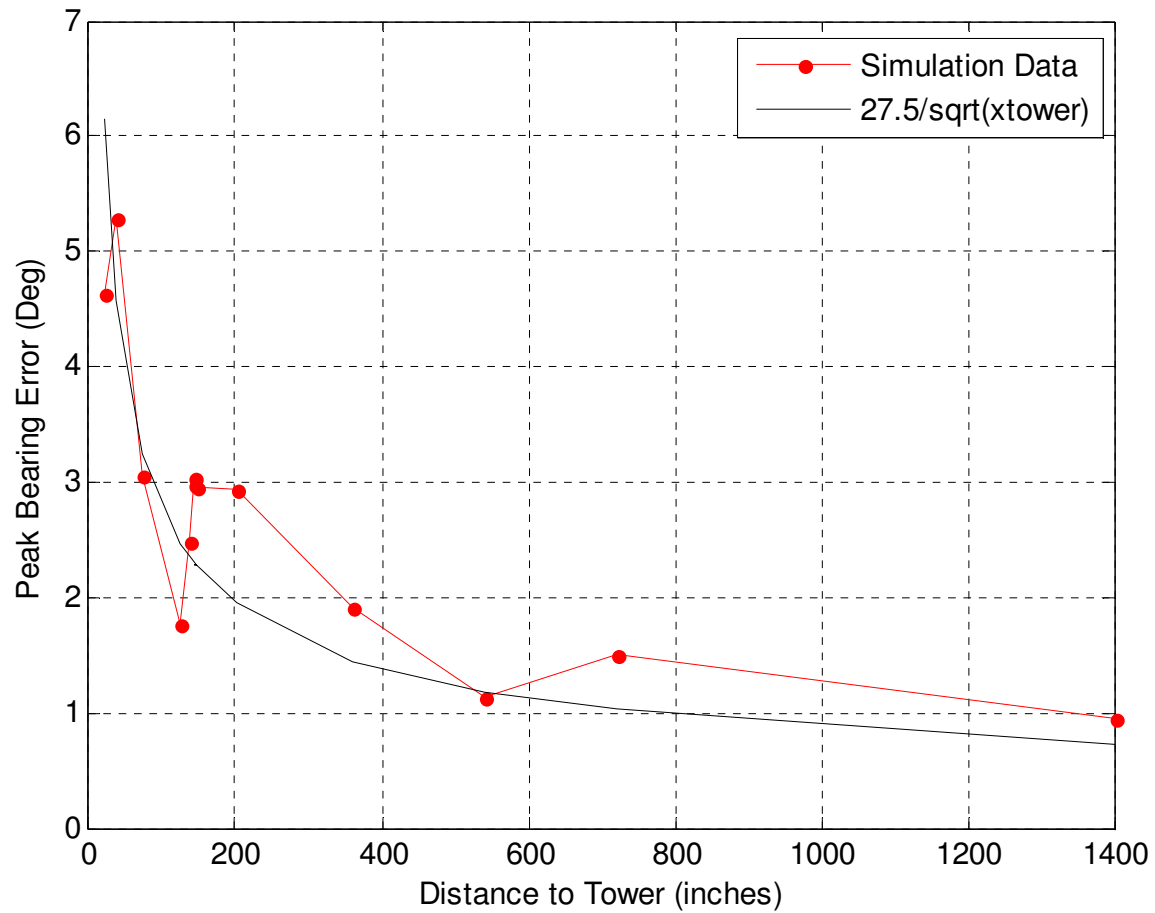
Geometry of eight element circular array for 860 MHz as captured from the Antenna Model software.



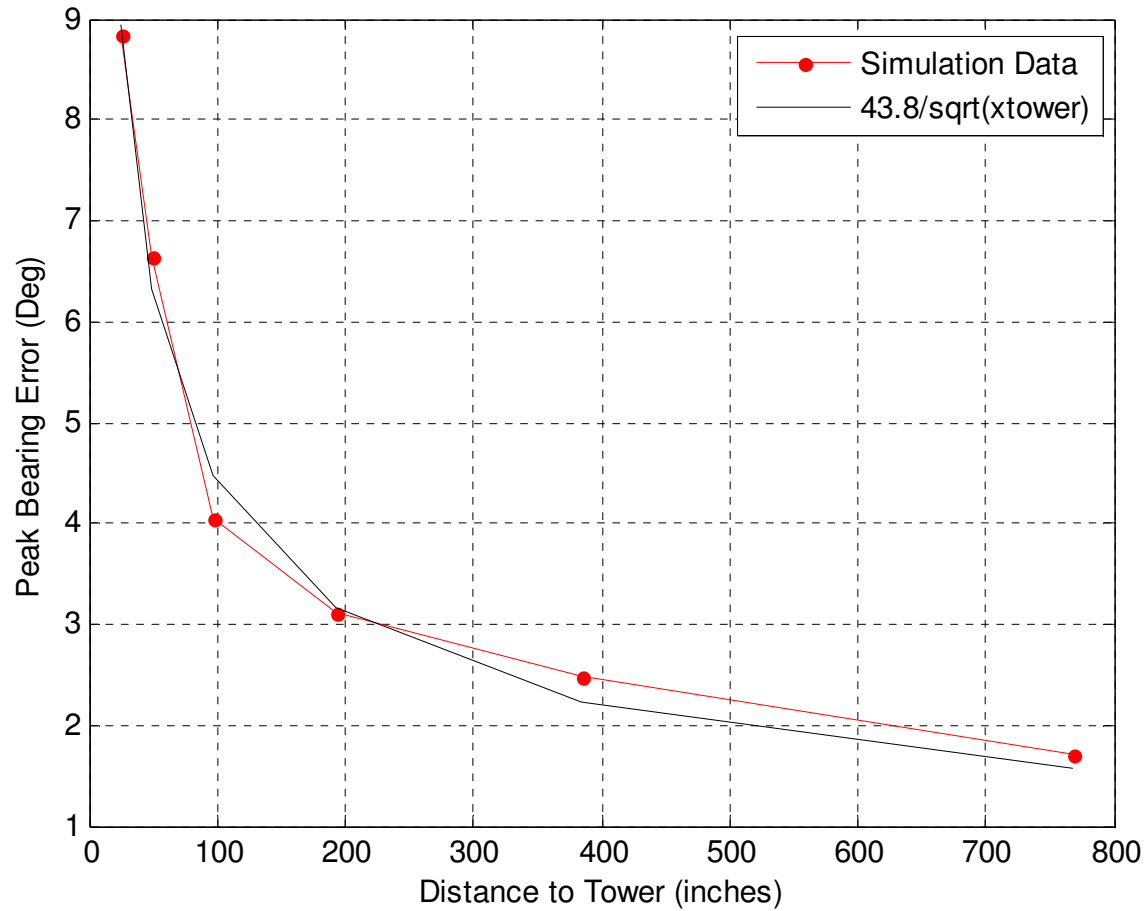
Geometry of eight element circular array for 860 MHz near tower as captured from the Antenna Model software.



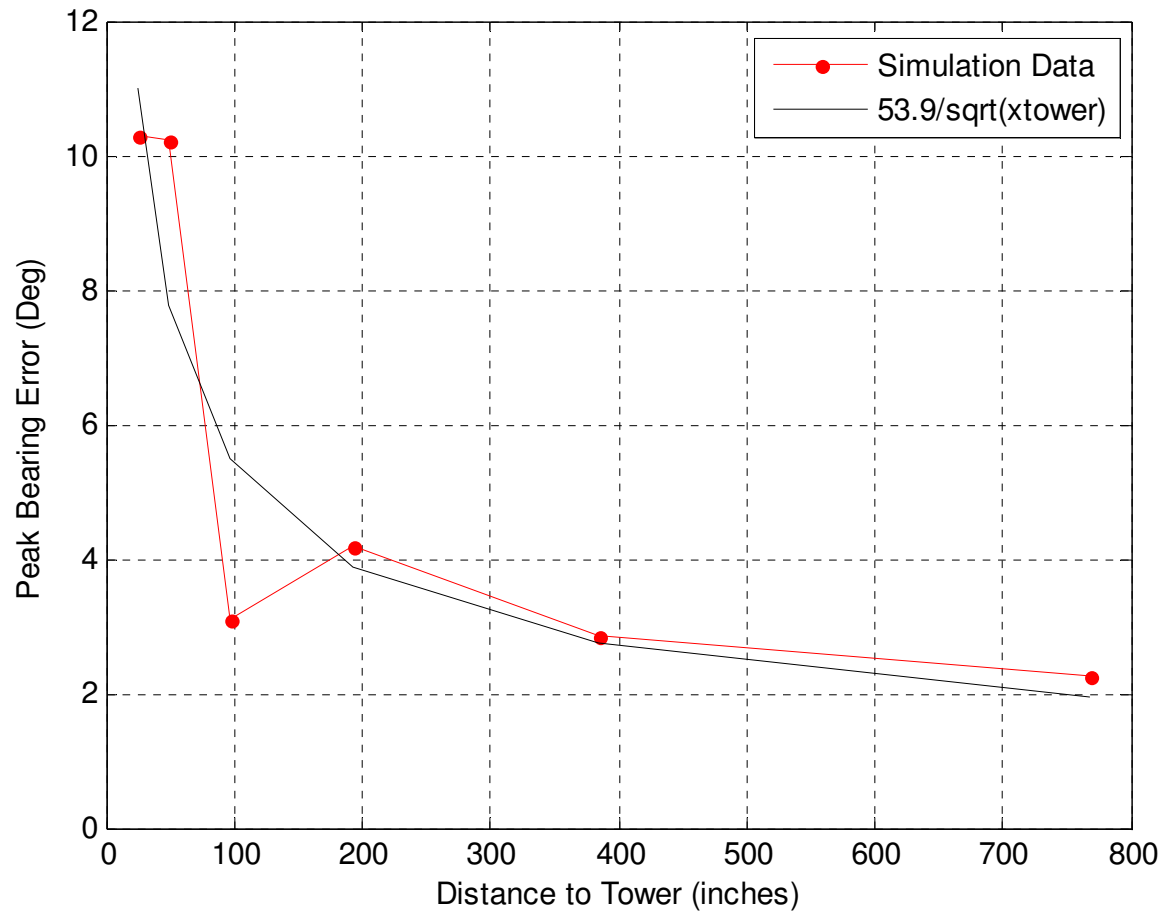
Averaged bearing error for the 150 MHz system with tower distance of 48 inches. The sixteen-term Fourier series approximation for the bearing error is also plotted. The bearing angle interval is 5 degrees.



Peak bearing error versus tower distance for 860 MHz system. An approximate trend curve is also plotted.



Peak bearing error versus tower distance for 450 MHz system. An approximate trend curve is also plotted.



Peak bearing error versus tower distance for 150 MHz system. An approximate trend curve is also plotted.

Minimum Side Arm Distance

| Frequency | Distance for 5 deg peak error | Distance for 2 deg peak error |
|-----------|-------------------------------|-------------------------------|
| 860 MHz | 50 in (4.2 ft) | 360 in (30 ft) |
| 450 MHz | 90 in (7.5 ft) | 600 in (50 ft) |
| 150 MHz | 100 in (8.3 ft) | 900 in (75 ft) |