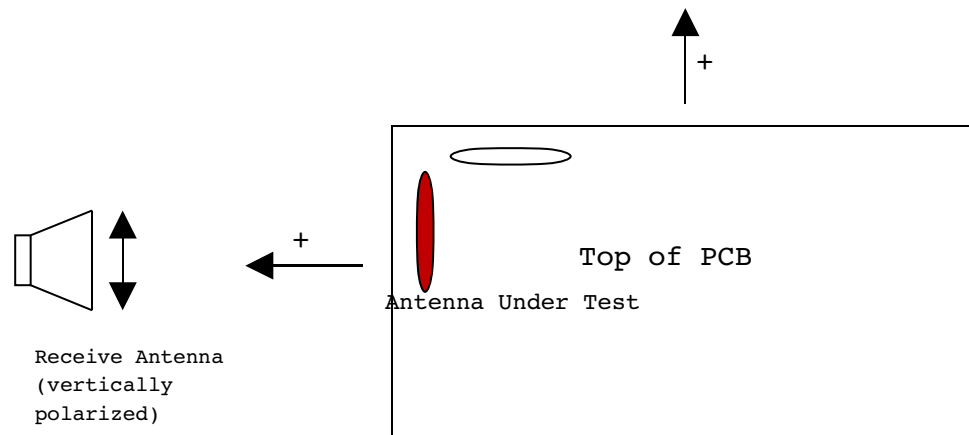
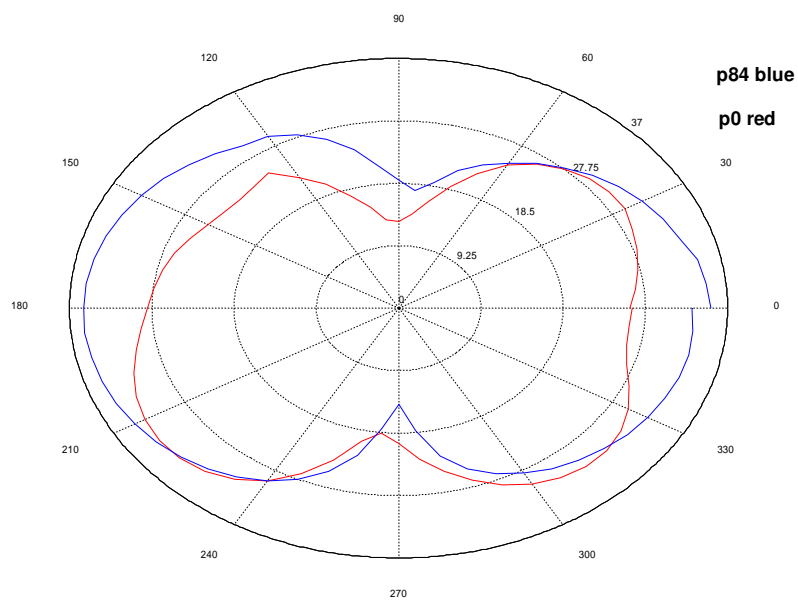
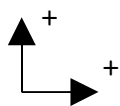


1. Test configuration for Run 2 is diagrammed below. Note that the positive X axis comes out of the page, and so you are looking down along negative X axis.

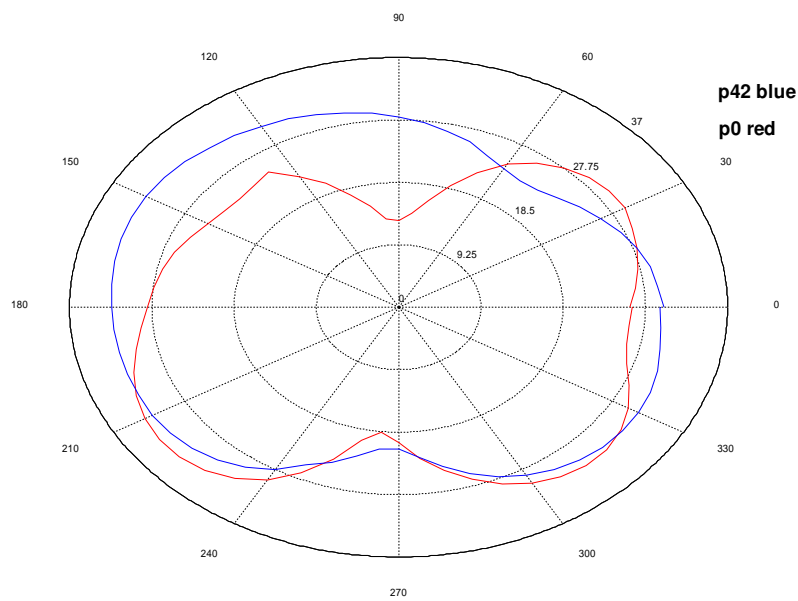


2. Zero degree reference plane (red) with positive 84 degree elevation plane (blue) – view is along negative Z axis. Note that the spherical coordinate system used here corresponds to MatLab's convention, where the *azimuth* angle ( $\theta$ ) begins at the positive X axis and rotates counter clockwise 360 degrees (around the Z axis) in the X-Y plane. The *elevation* angle ( $\phi$ ) begins in the X-Y plane, rotates up (90 degrees) to the +Z axis, and also (beginning in the X-Y plane) rotates down (minus 90 degrees) to the -Z axis. Also note that the elevation traces for these 2D plots have not yet been scaled (multiplied by cosine  $\phi$ ).

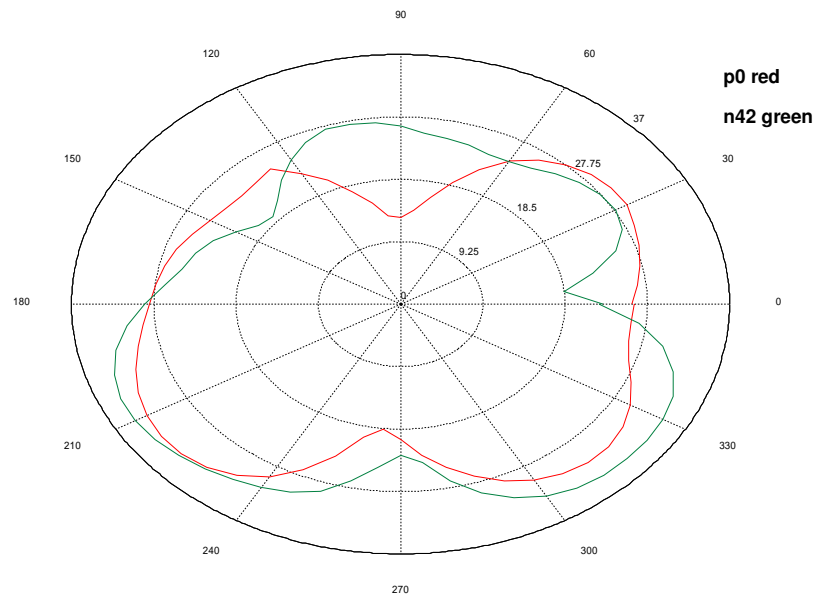
Run 2 — Nov 5, 2008



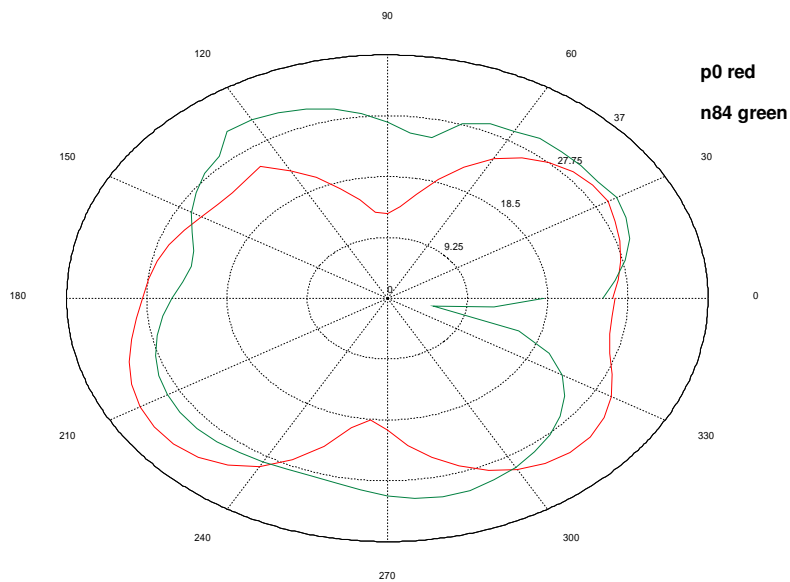
3. Elevation decrease to positive 42 degrees



4. Elevation decrease to negative 42 degrees (green)



5. Elevation decrease to negative 84 degrees



6. Now in this 3D plot, you are looking down along the  $-Z$  axis, and so this corresponds to the view in item 2 above. The colorbar corresponds to field intensity, red being the most intense.

