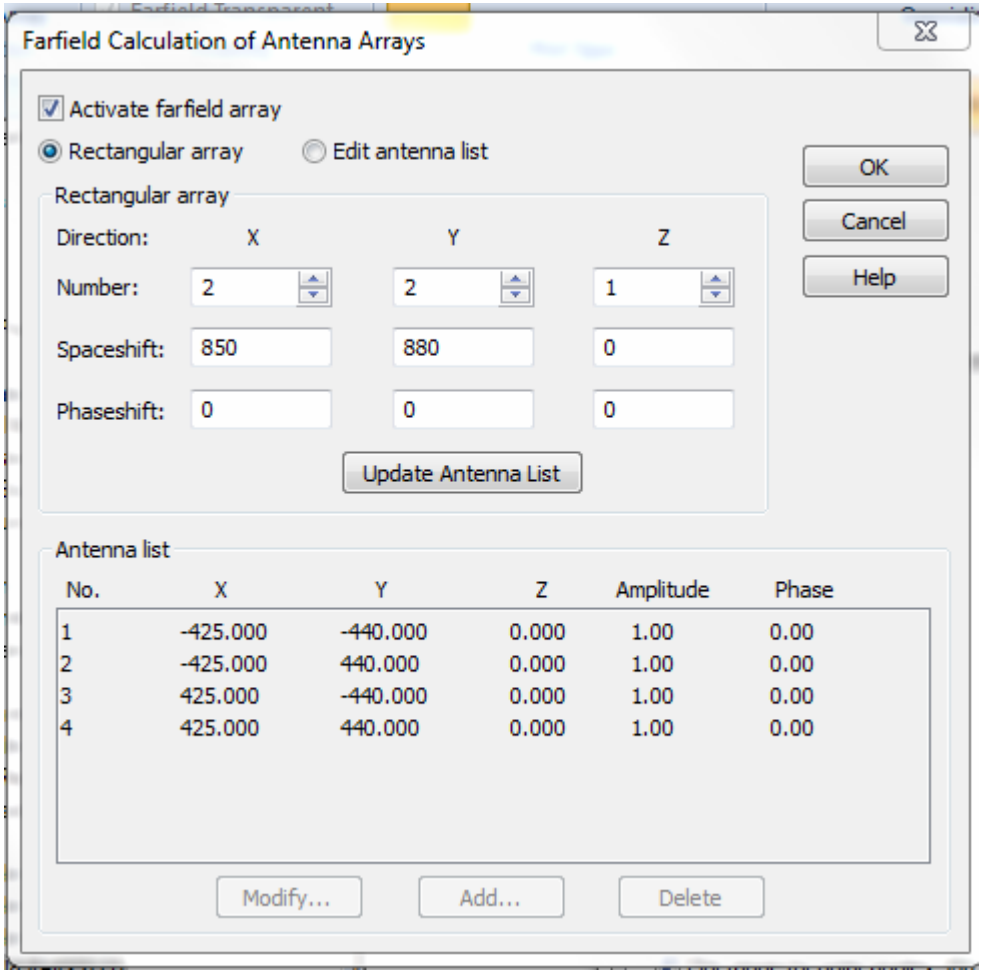
Phase error sensitivity in stacked yagis on 432 MHz

SM6FHZ 2016-09-21

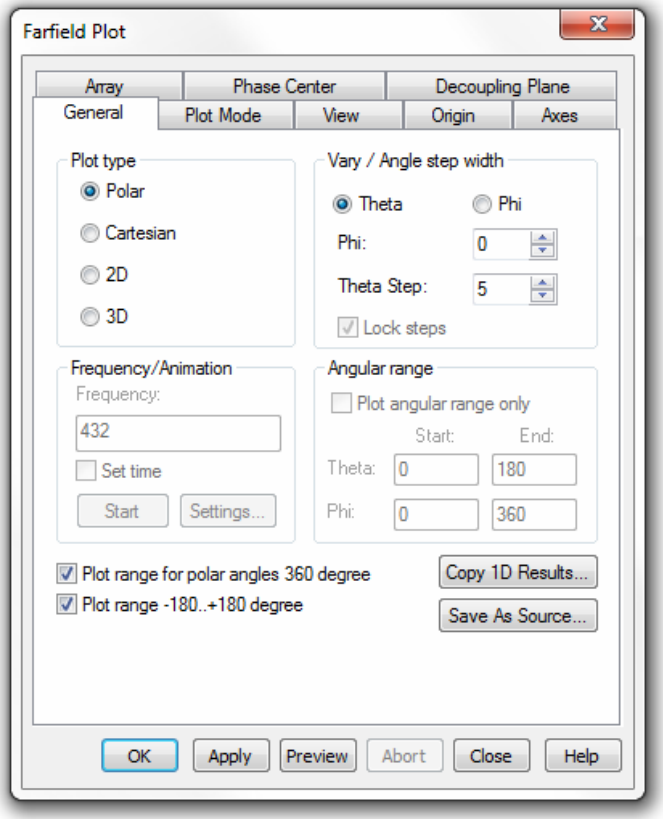
Configuration1

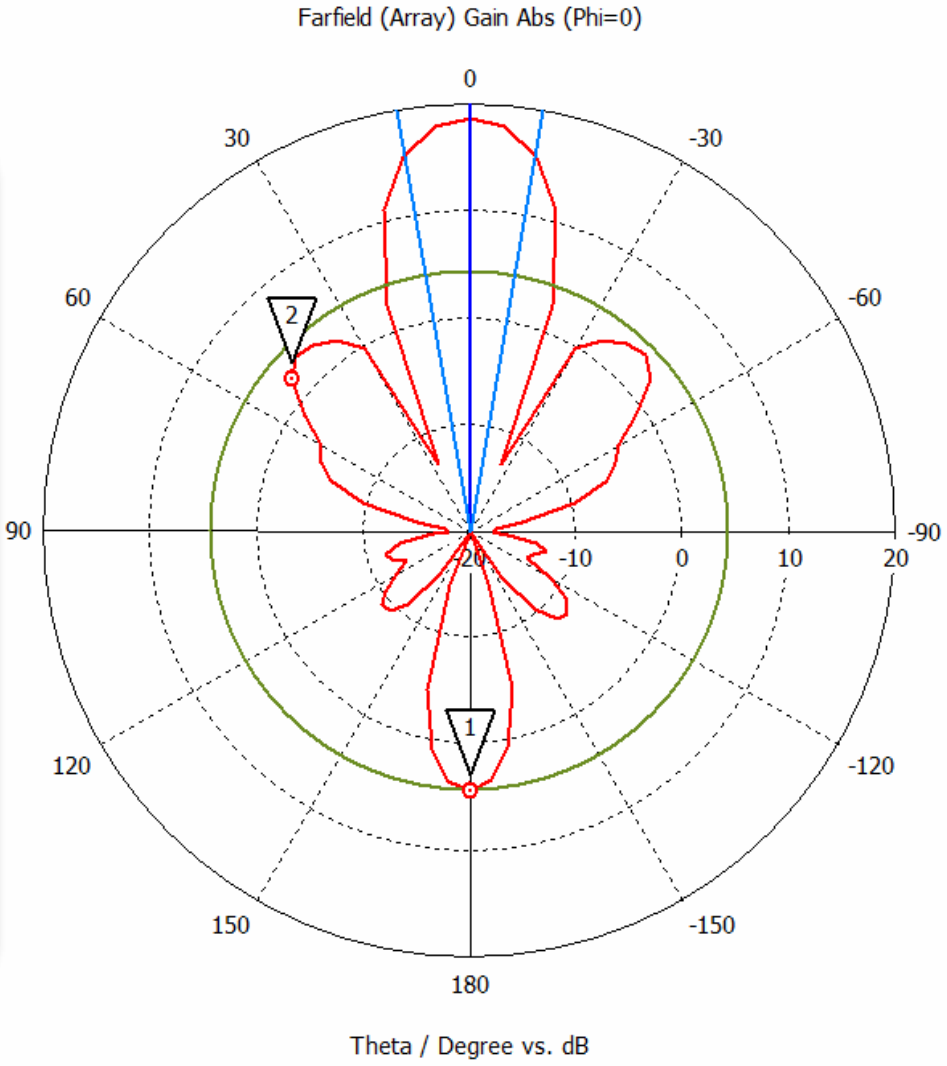
- Start



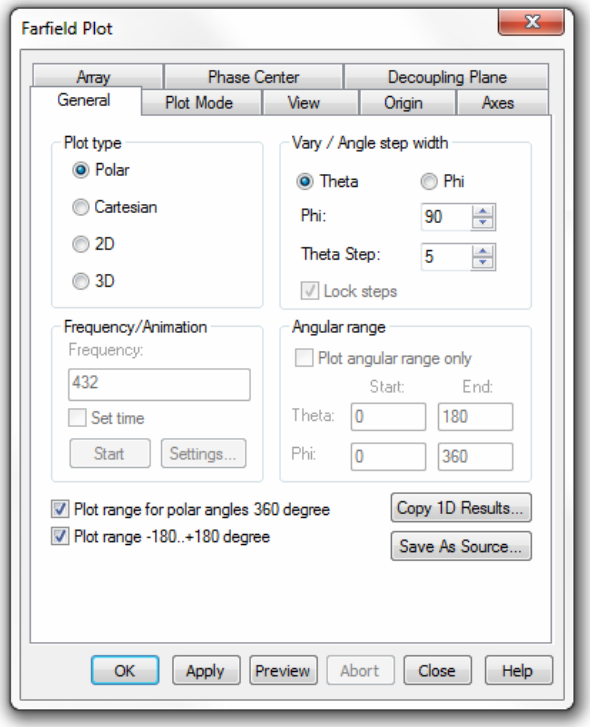
The four yagi array in real

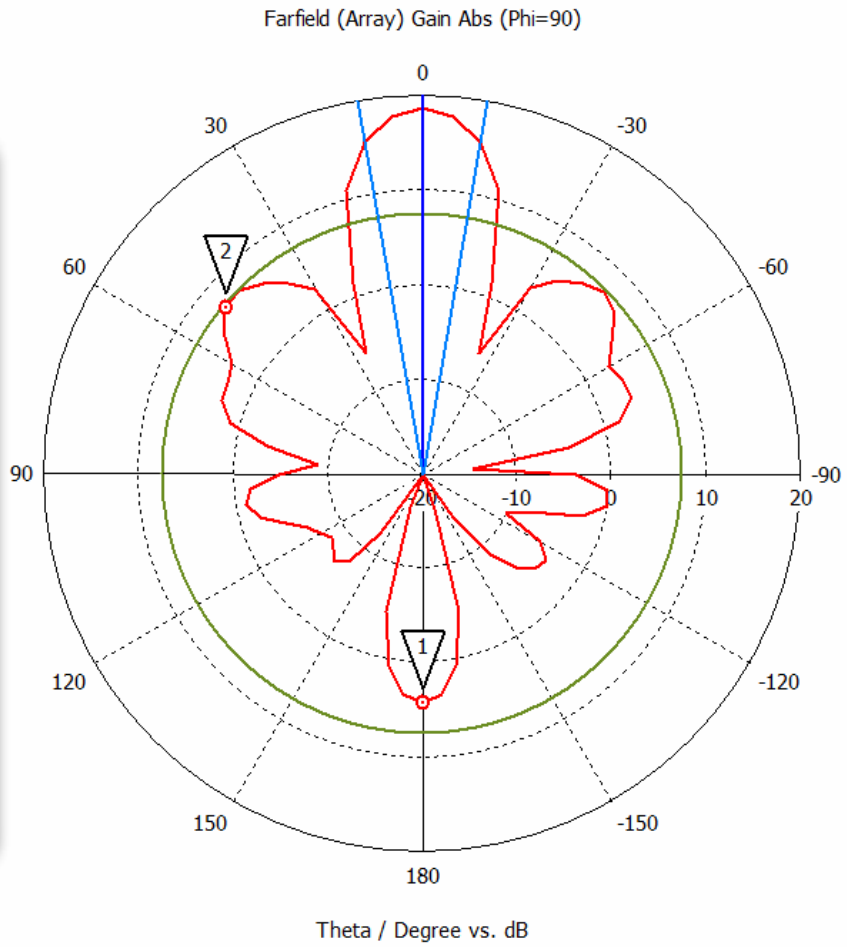
E-plane (Az) pattern with no phase errors





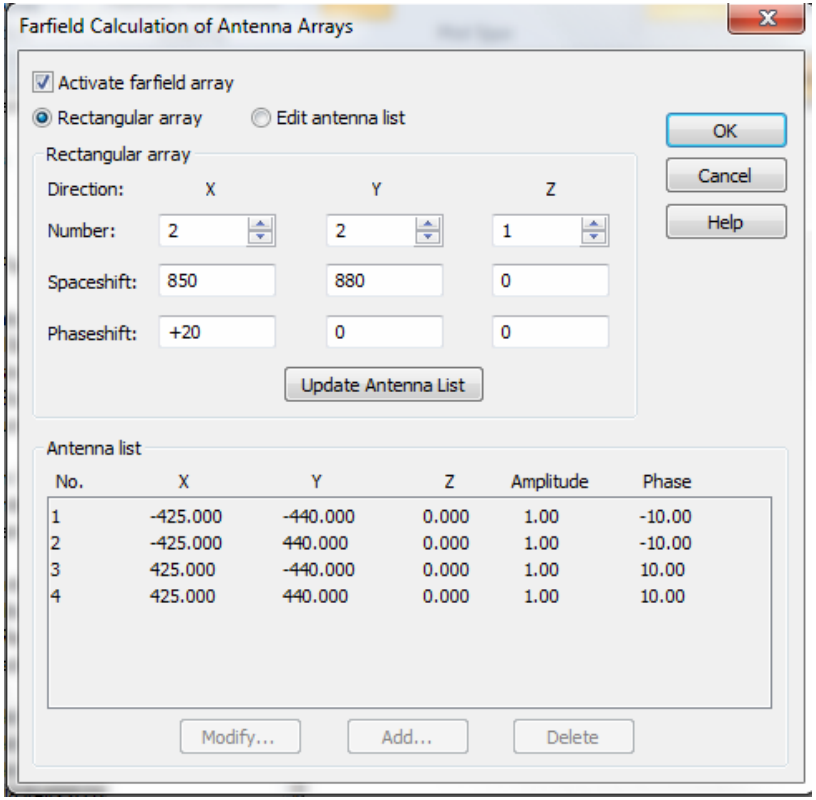
H-plane (EI) pattern with no phase errors



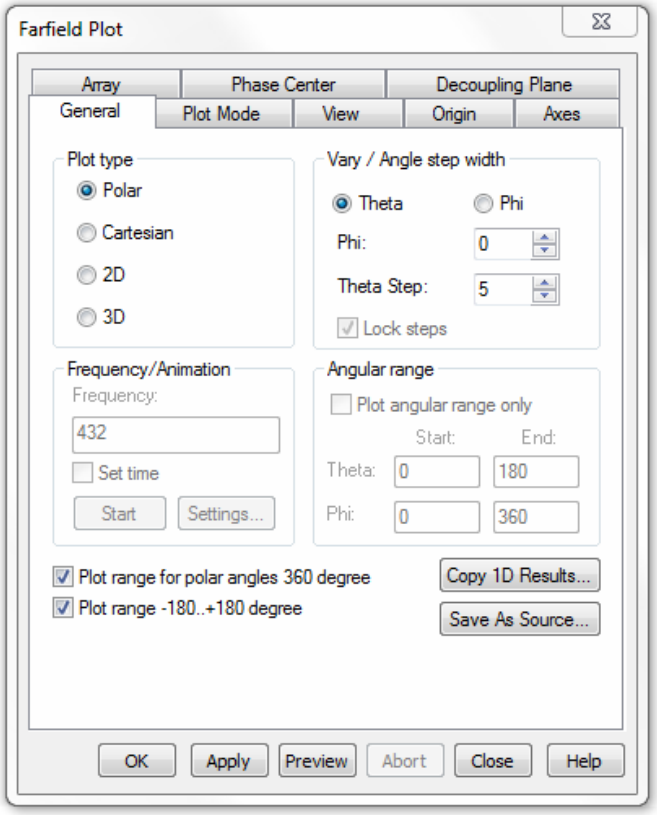


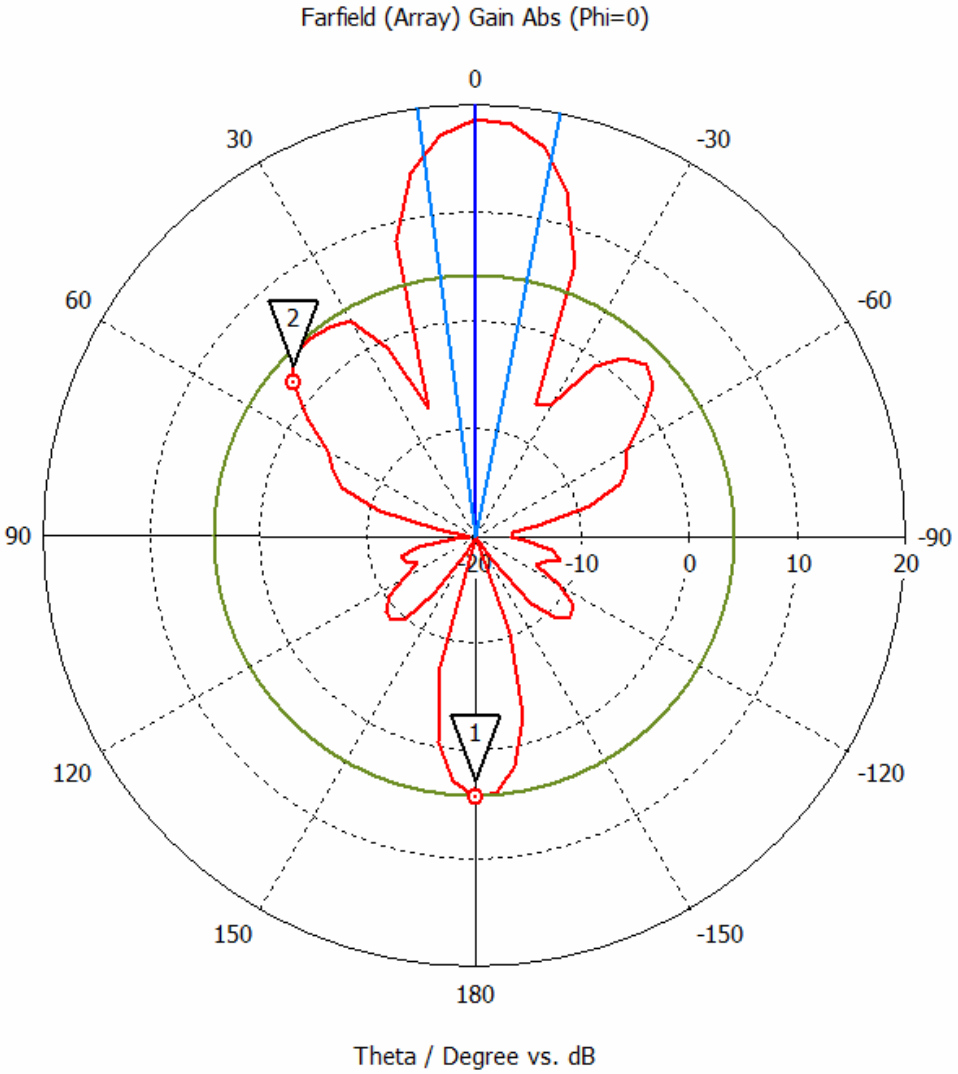
Configuration2

- 20 deg phase error in az



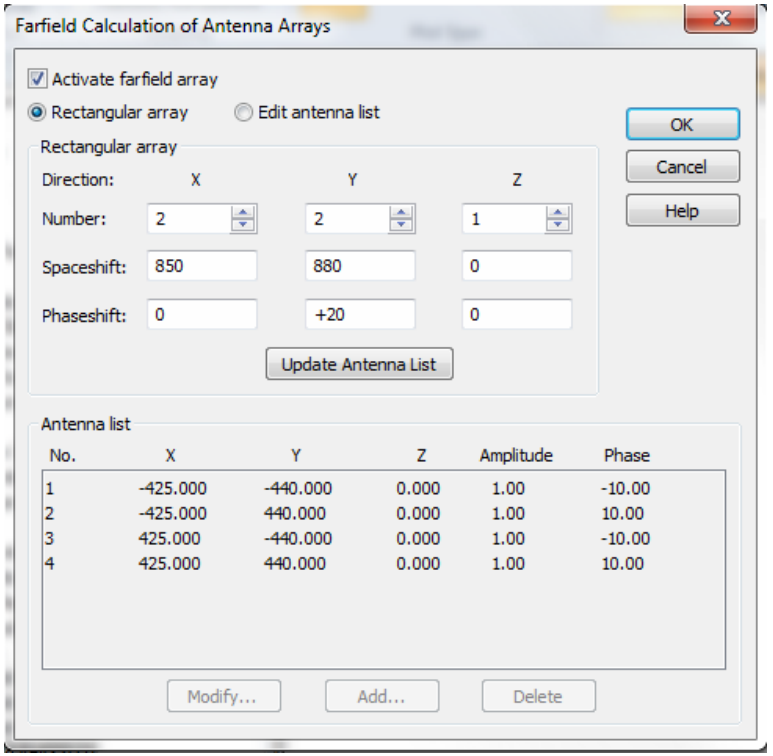
E-plane pattern with 20 deg phase error in Az



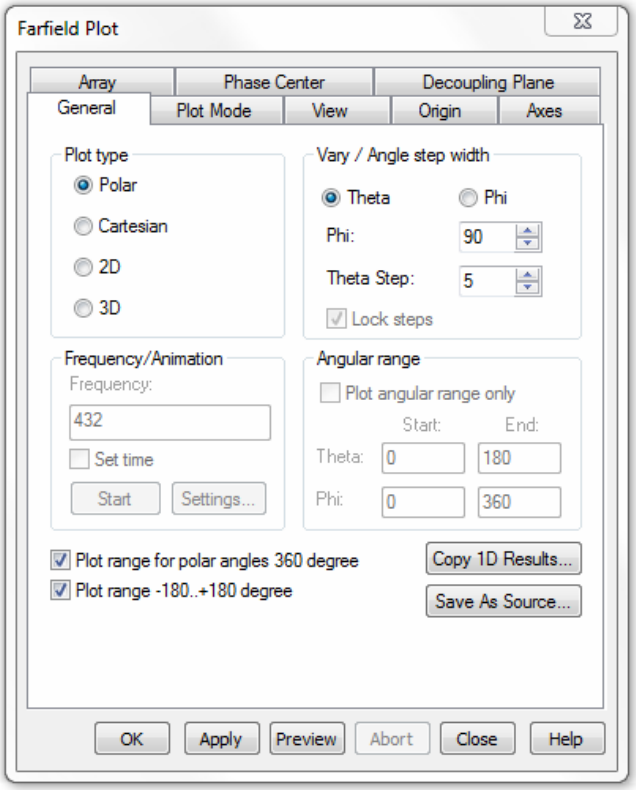


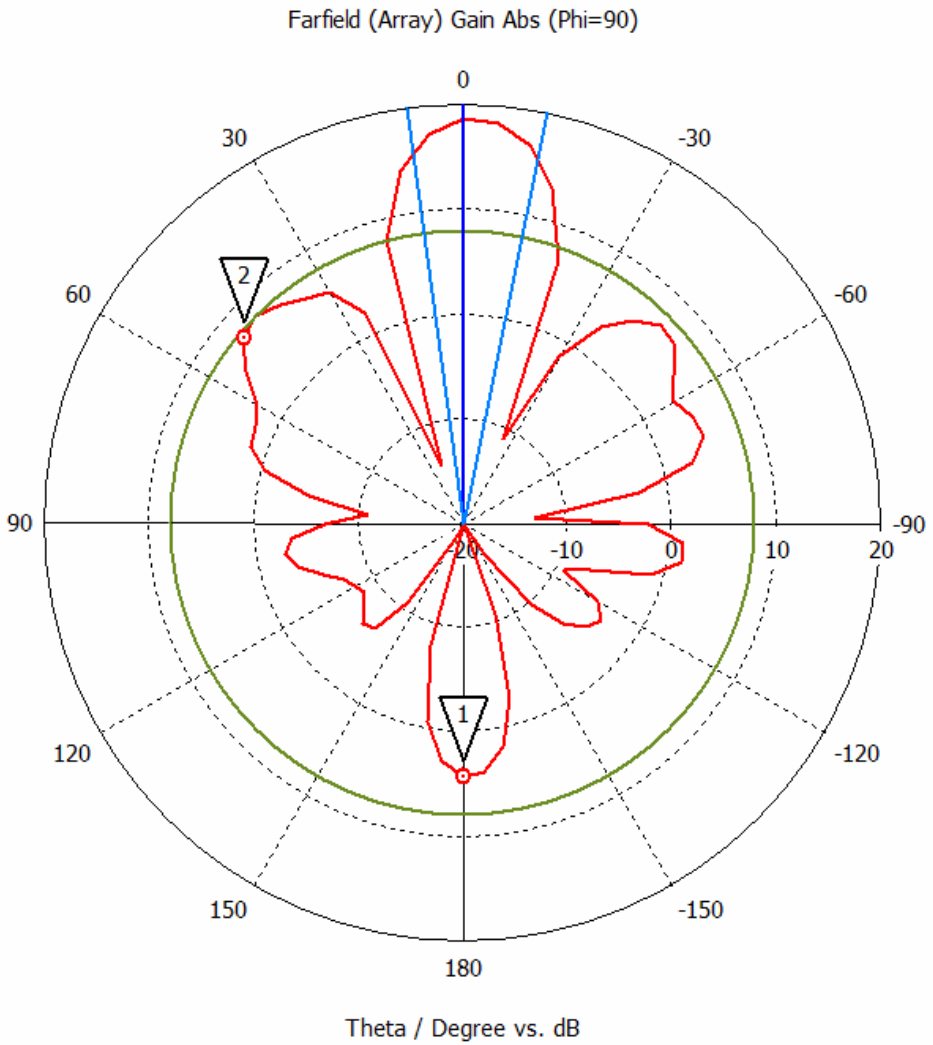
Configuration3

- 20 deg phase error in el



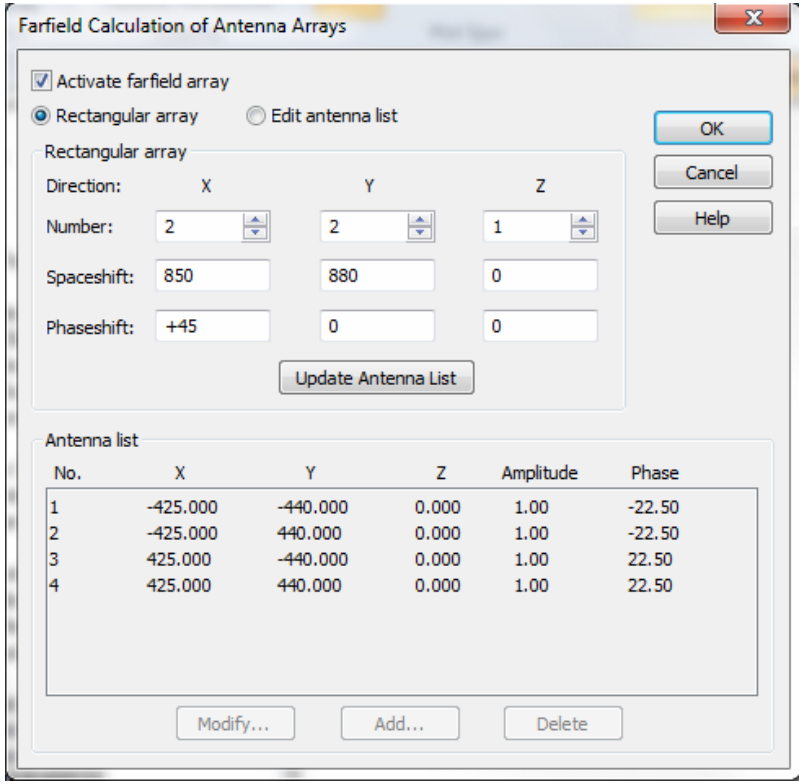
H-plane pattern with 20 deg phase error in El



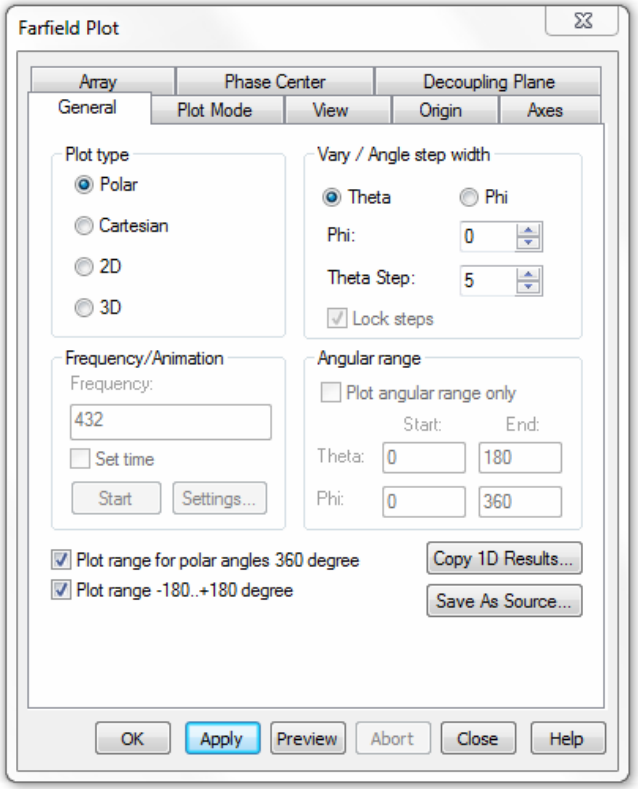


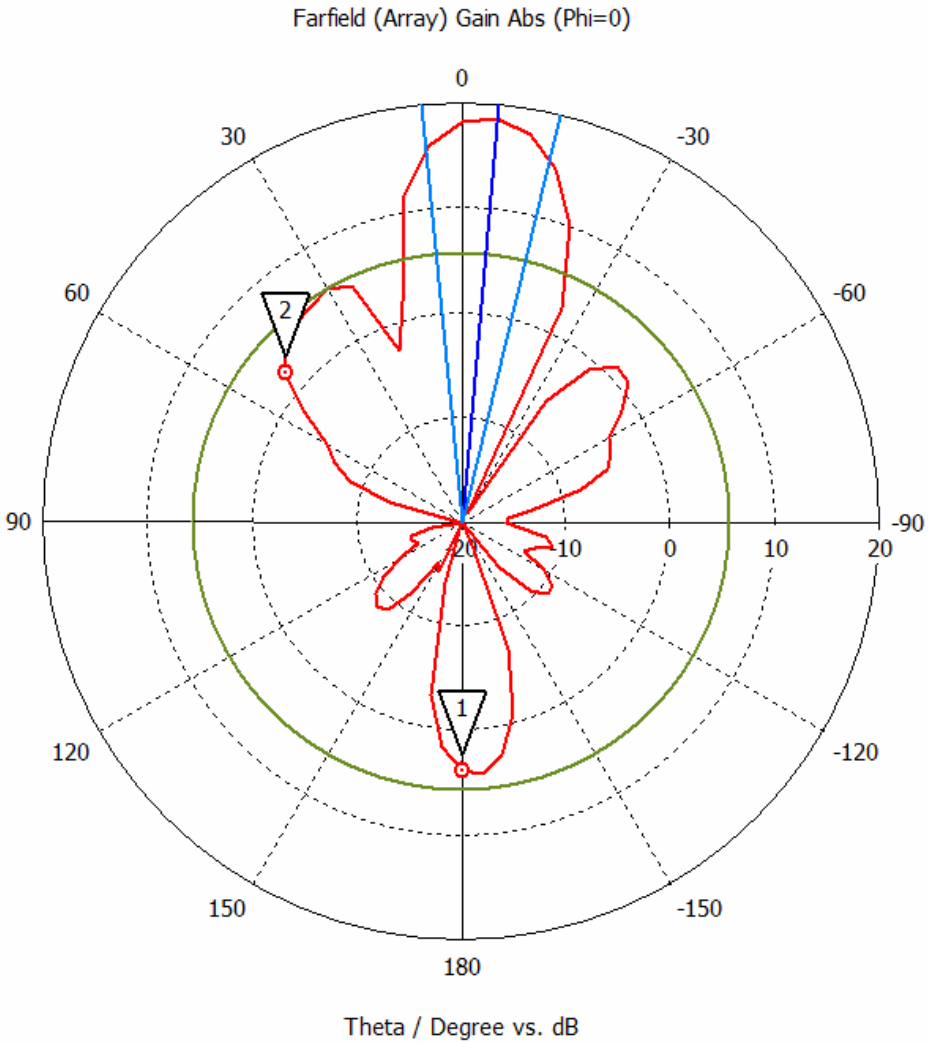
Configuration4

- 45 deg phase error in az



E-plane pattern with 45 deg phase error in Az





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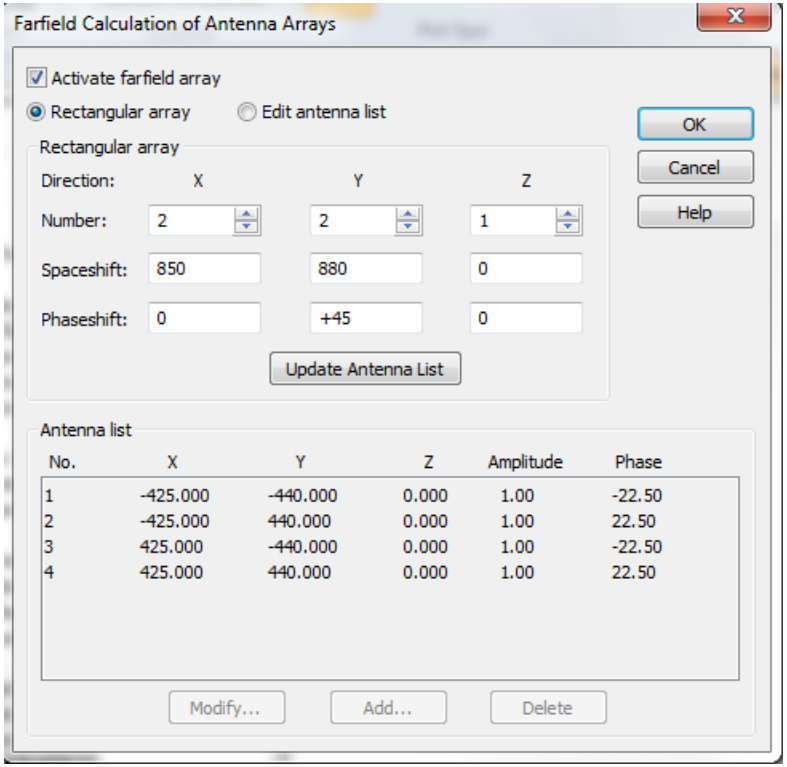
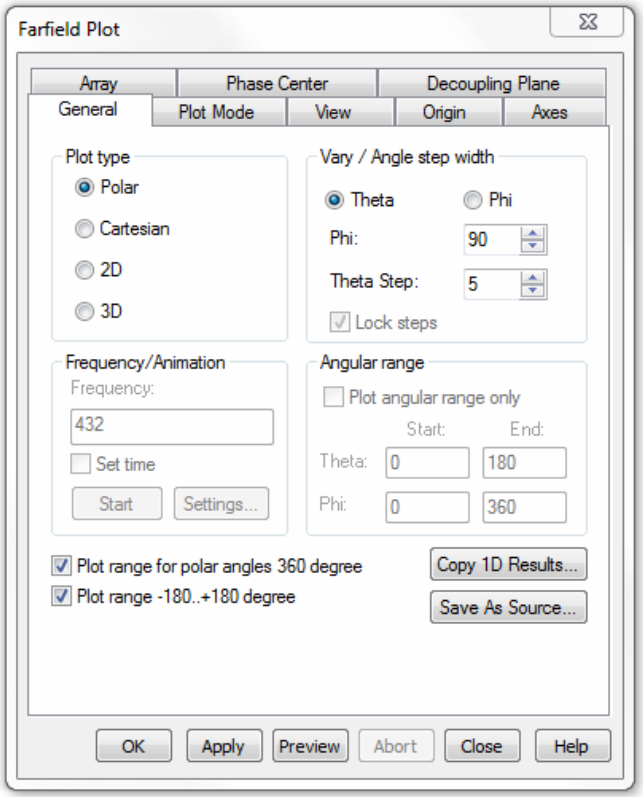
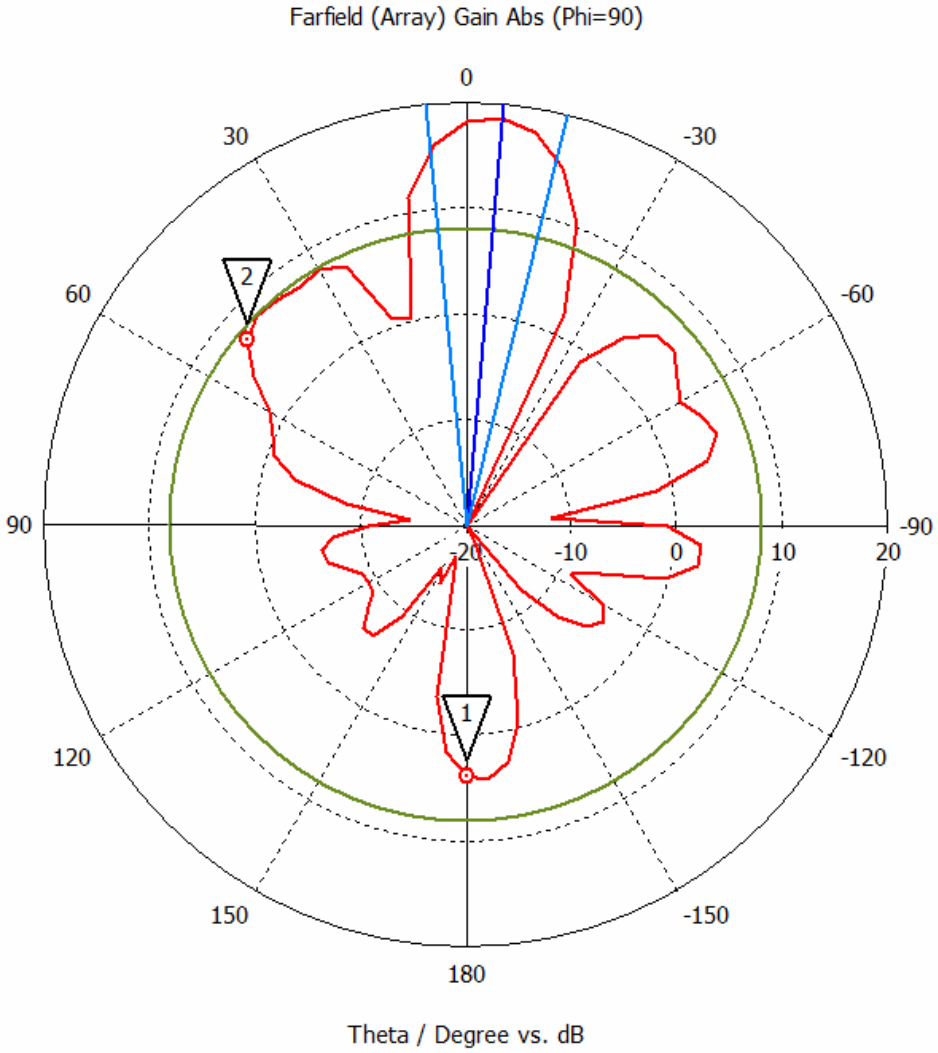
Configuration5

- 45 deg phase error in el



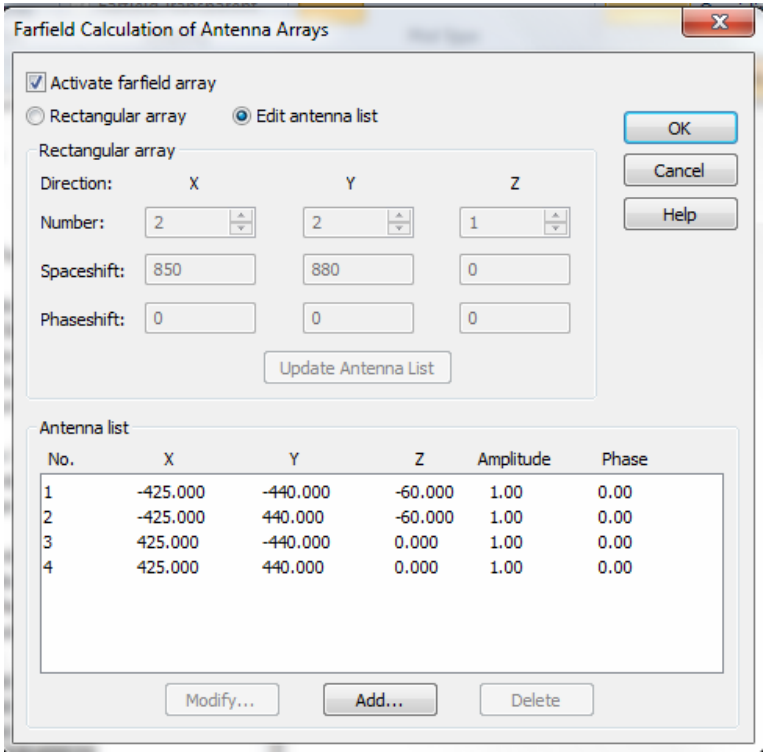
H-plane pattern with 45 deg phase error in El



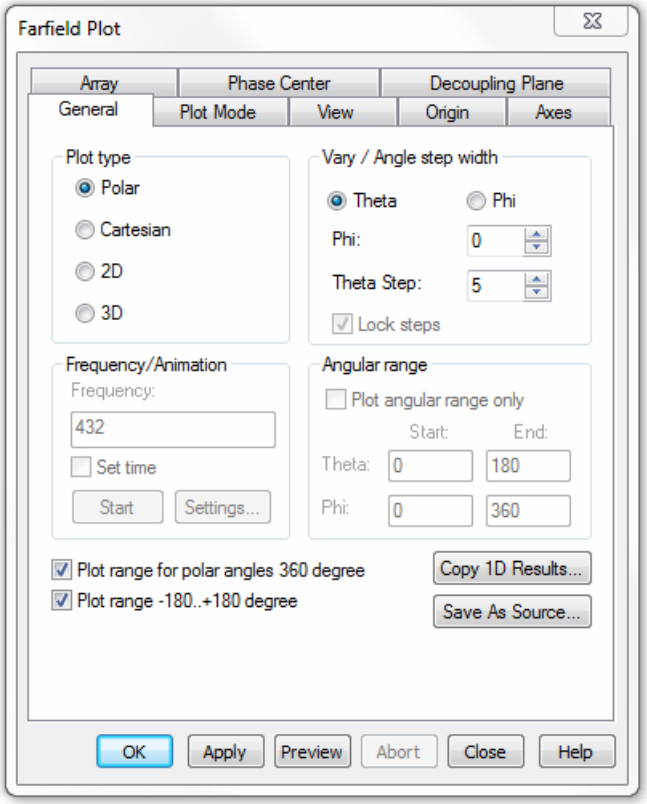


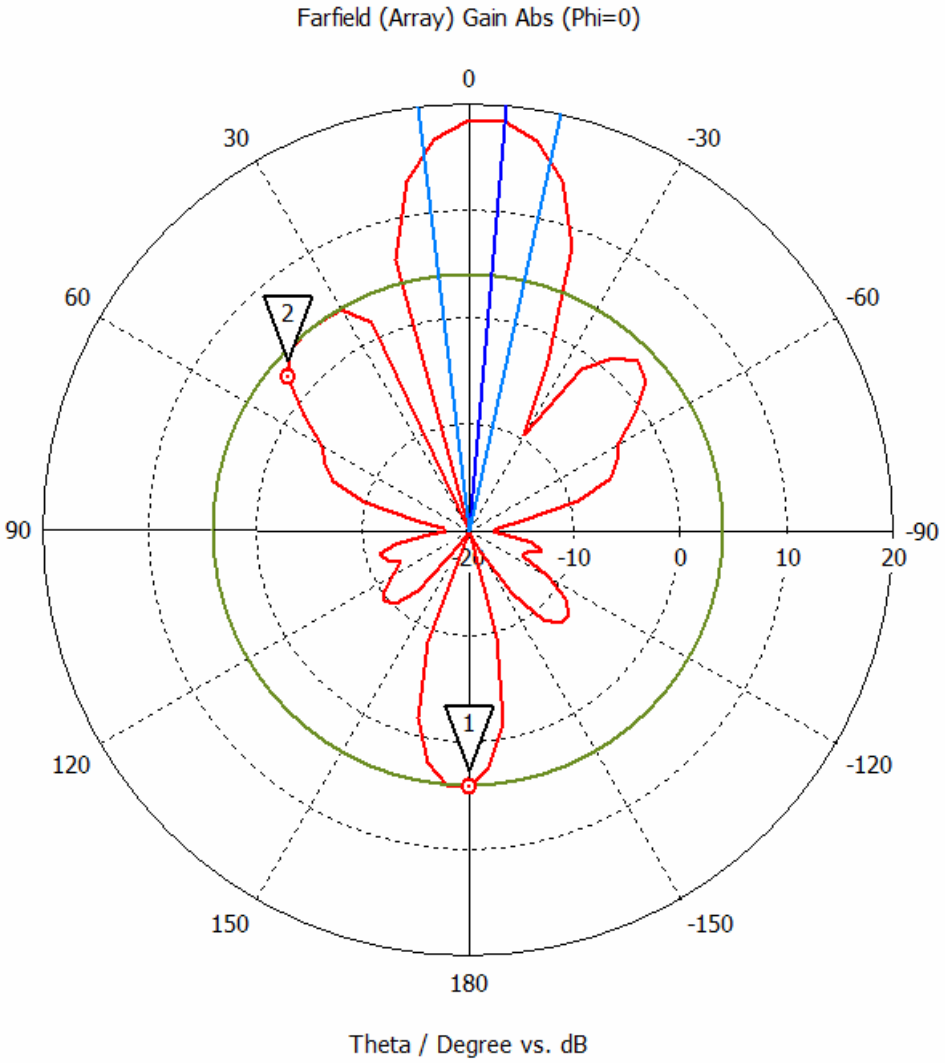
Configuration6

- Minus 60 mm (0.086 λ) offset in Z-direction for the 2 left antennas



E-plane pattern with -60 mm (0.086 λ) offset in Z-direction for the 2 left antennas





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