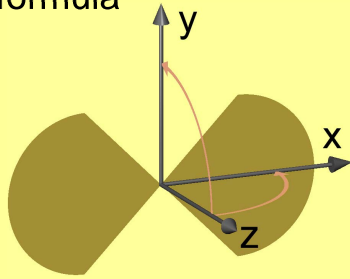


Ultra-wideband radiation pattern measurements

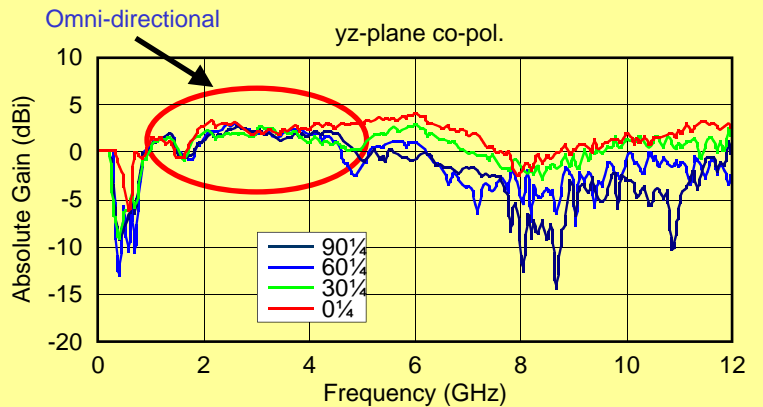
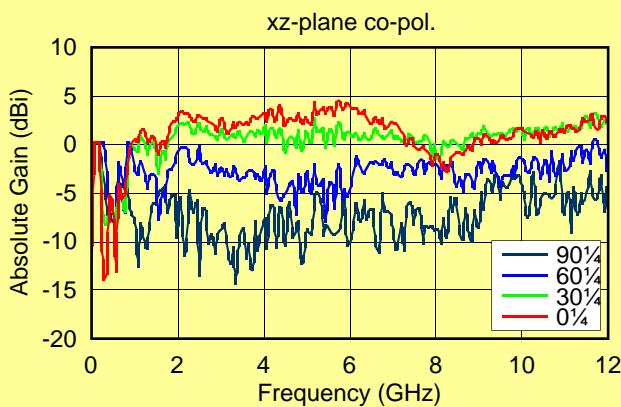
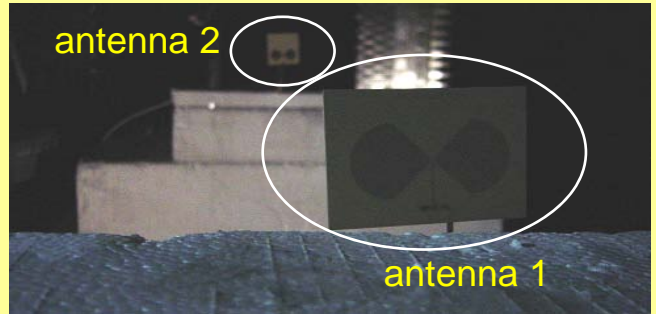
Two same UWB antennas were used to measure W.B. radiation patterns

Friis transmission formula

$$\frac{P_r}{P_t} = \frac{G_t G_r \lambda^2}{(4\pi R)^2}$$

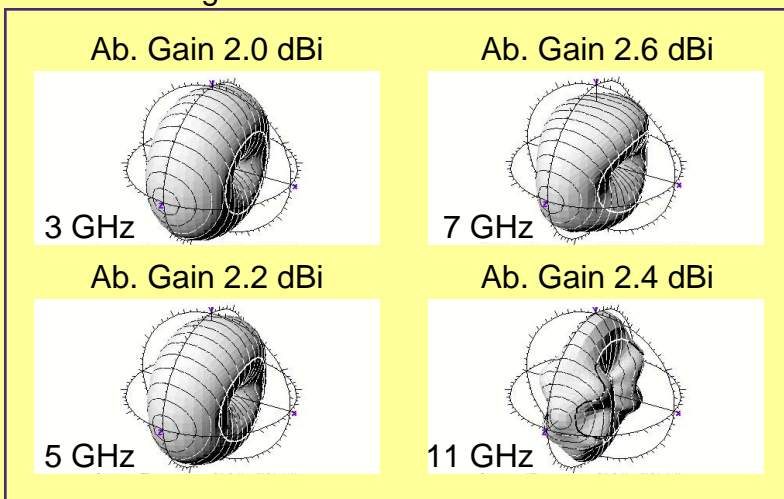


Orientation on the antenna

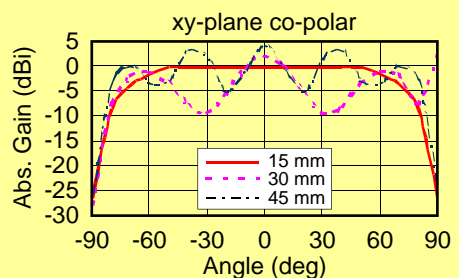
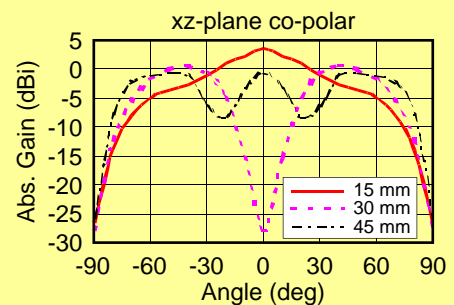
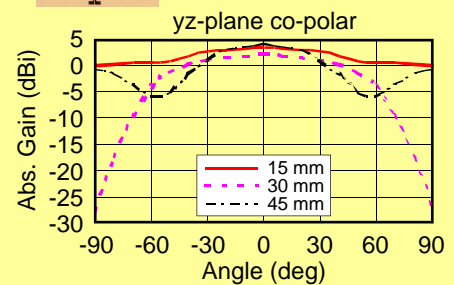
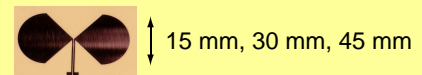


Simulated radiation patterns

Triangular S. C. antenna sized 30 mm

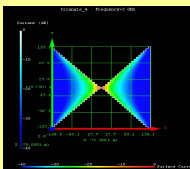


3 sized S. C. antenna's radiation patterns at 11 GHz



Current density

3 GHz



11 GHz

