



Figure 6 The width of a synthesized pulse affects different data paths differently. These frequency-domain curves are based on TDT data analyzed with three pulse widths of 6.9 GHz at 145, 125, and 105 psec. In the frequency domain, these values result in resonance artifacts. TDT data from 15m of Category 5 cable exhibits these artifacts as peaks at 6.9 GHz (red), 8 GHz (green), and 9.5 GHz (blue), respectively. The upper trace (actually three superimposed traces), from the Agilent TDR-test board, shows artifacts at the same frequencies, but the one at 9.5 GHz is inverted.