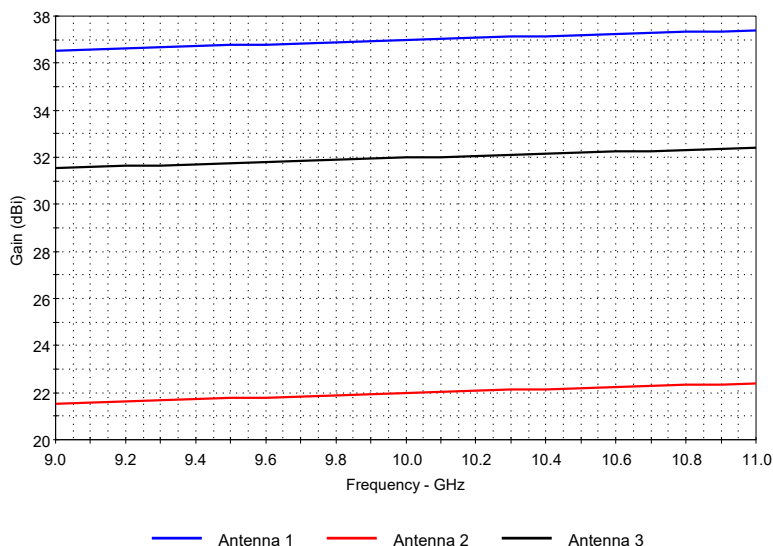




Antenna Gain Calibration Example - 3 Antenna Method



DESCRIPTION

NSI-MI Technologies' Antenna Gain Calibration software computes the gain of one or more unknown antennas using the two-antenna and three-antenna gain measurement techniques. The output of the analysis is a configuration file in the same format as the MI-3000 file containing the theoretical standard gain horn values. This allows new antennas to be added to the basic standard gain horn data table so that these antennas become new standards for use in other measurements. Supported measurement techniques include:

Three Unknown Antennas: All pairs of the unknown antennas are used as transmit and receive antennas. The result is a gain standards file containing the gain of all three antennas versus frequency along with a tabular report of the gains.

Two Identical Antennas: If two unknown antennas are identical, the data collection for three unknown antennas is reduced to a single measurement of one antenna transmitting to the other. The result is a gain standards file containing the gain of the antenna versus frequency along with a tabular report of the gains.

One Unknown Antenna: Transmit and receive pair measurements are made with the unknown antenna with a Standard Gain Horn as the paired antenna. This is similar to the measurements for standard gain analysis by substitution.

COMPATIBILITY

- Windows® 7, 10
- Arena Data Acquisition Software

STANDARD COMPONENTS

- Antenna Gain Calibration Analysis Software
- Software Manual