

## **BANDWIDTH CALCULATION STATEMENT**

### **NIITEK INC. APPLICATION FOR SPECIAL TEMPORARY AUTHORITY 0943-EX-ST-2013**

Section 15.503 of the FCC rules defines the UWB bandwidth as the frequency band (i.e., difference between the upper and lower frequencies in a continuous set of frequencies measured in hertz) bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. Accordingly, the bandwidth (4.5 GHz) was calculated at the 10 dB points from the maximum emission line and includes all points in the spectrum above the 10 dB level. The center frequency is the midpoint between f-low (low frequency 10 dB point) and f-high (high frequency 10 dB point). The measured 10 dB points are 500 MHz and 5 GHz. The calculated center frequency is 2.75 GHz.