

Exhibit Information:

Texas Tech University operates two mobile Ka-band pulse compression radar systems for severe storms and wind farm research across the continental United States. Objectives for both the meteorological and wind farm measurements are to further the scientific investigation of complex phenomenon related to each of these specialized environments.

Faculty and students submit scientific works for peer review and publication in scientific journals and attend international conferences, etc. as a result of this research to advance the science.

Modulating Signal Description:

Non-linear frequency modulated chirp with 14 MHz maximum modulation bandwidth.

Bandwidth of Modulation Description:

Variable between 5 MHz to 14MHz depending upon pulse width of compressed pulse. Typically we utilize 10MHz bandwidth for a 20 micro-second compressed pulse.