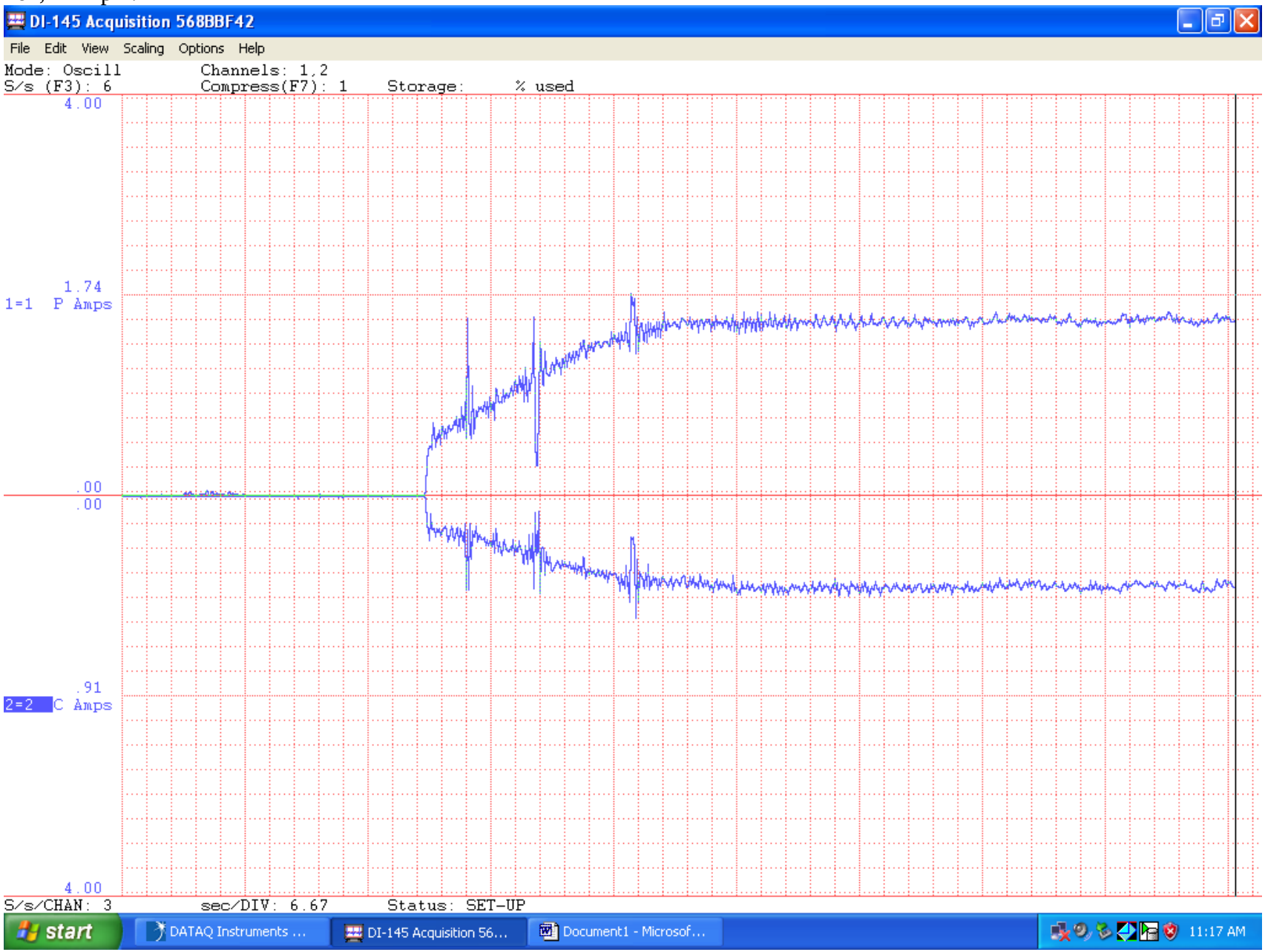
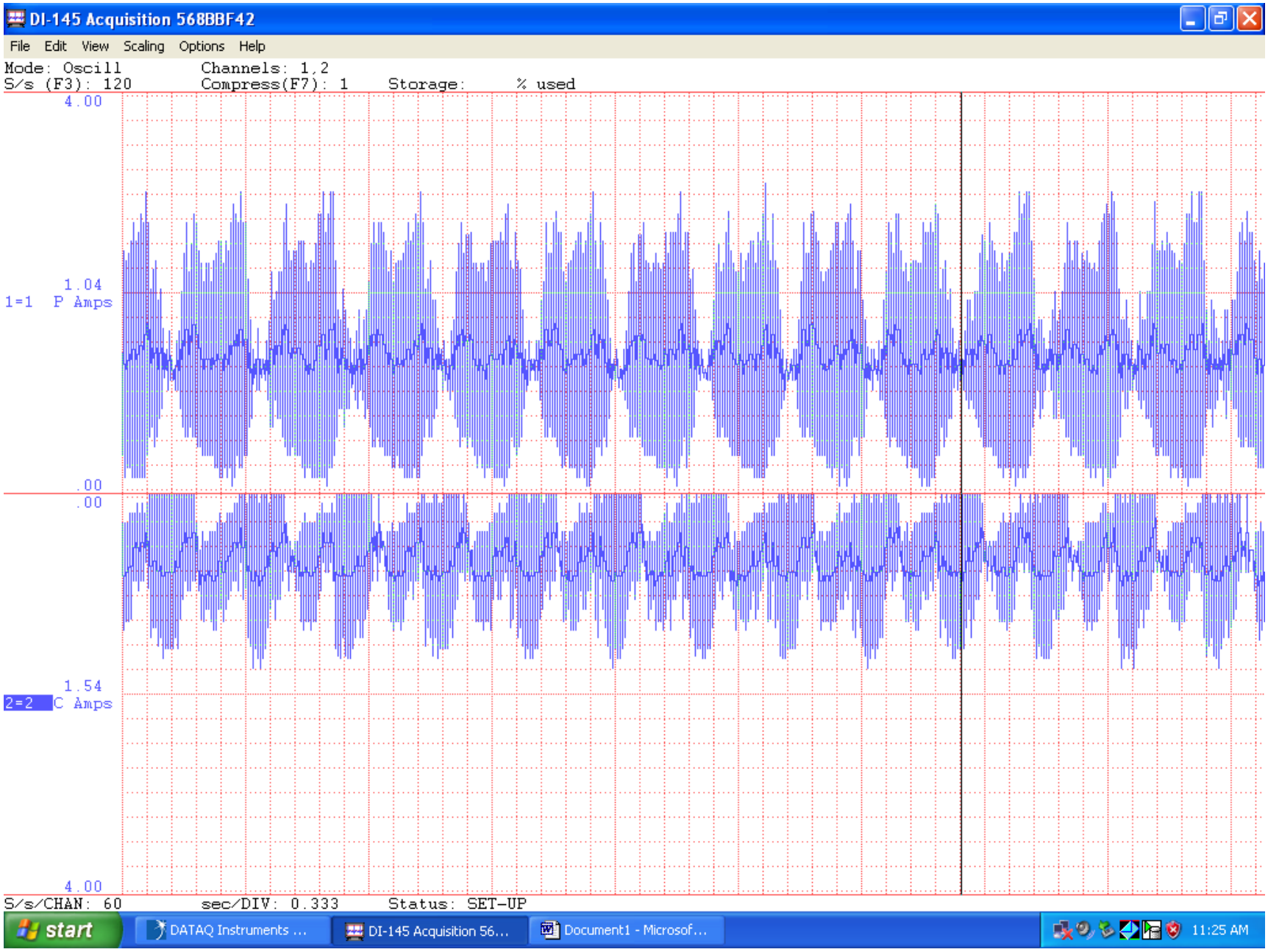
Test #2 1/27/16

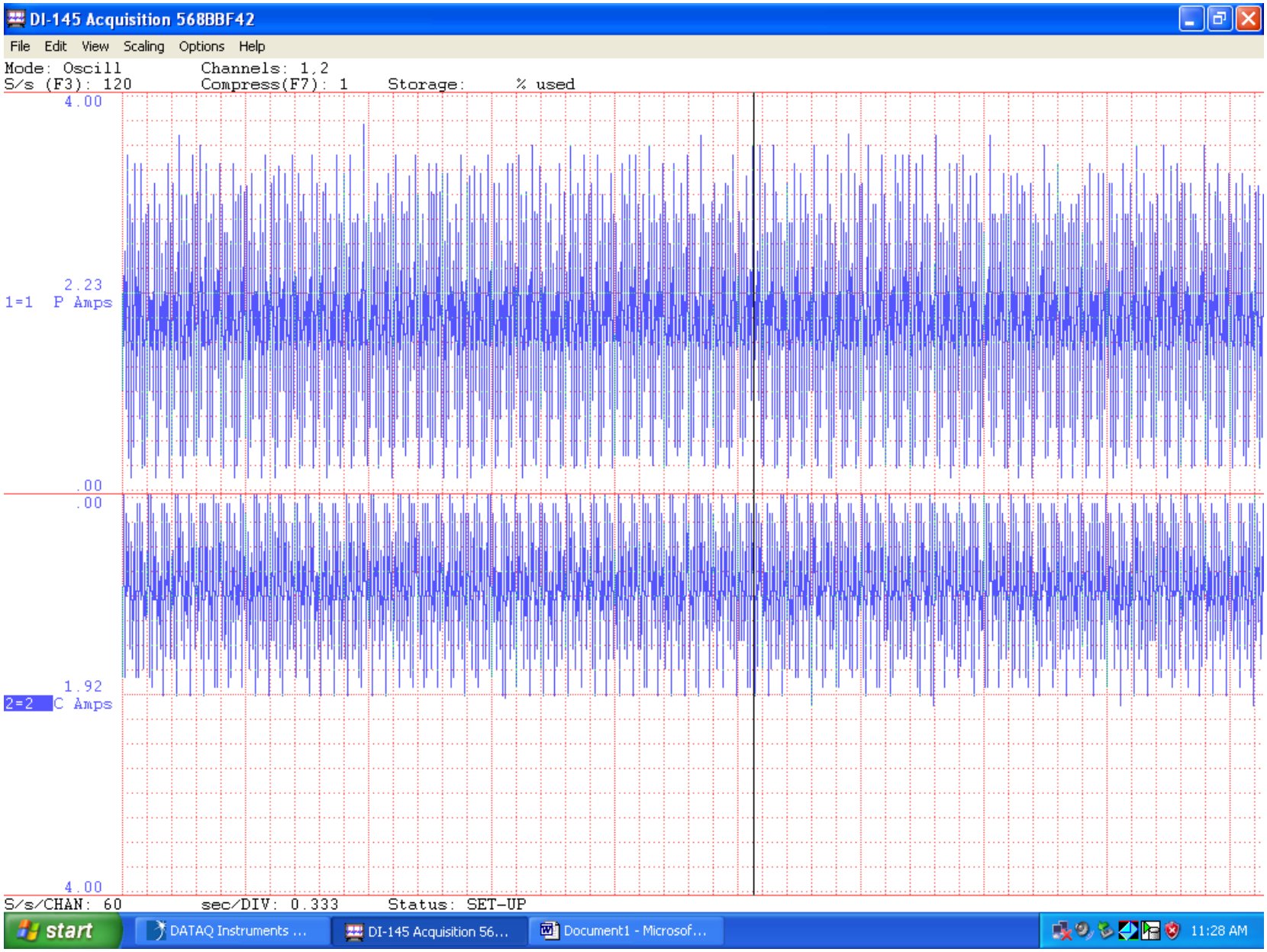
Graph 1 - SSG w/ Board 1; Wheel 2 – Gap 0.365” w/o Resistor 246 RPM – depicts transition zones denoted by Amp spikes at 114, 167, 227 rpm.



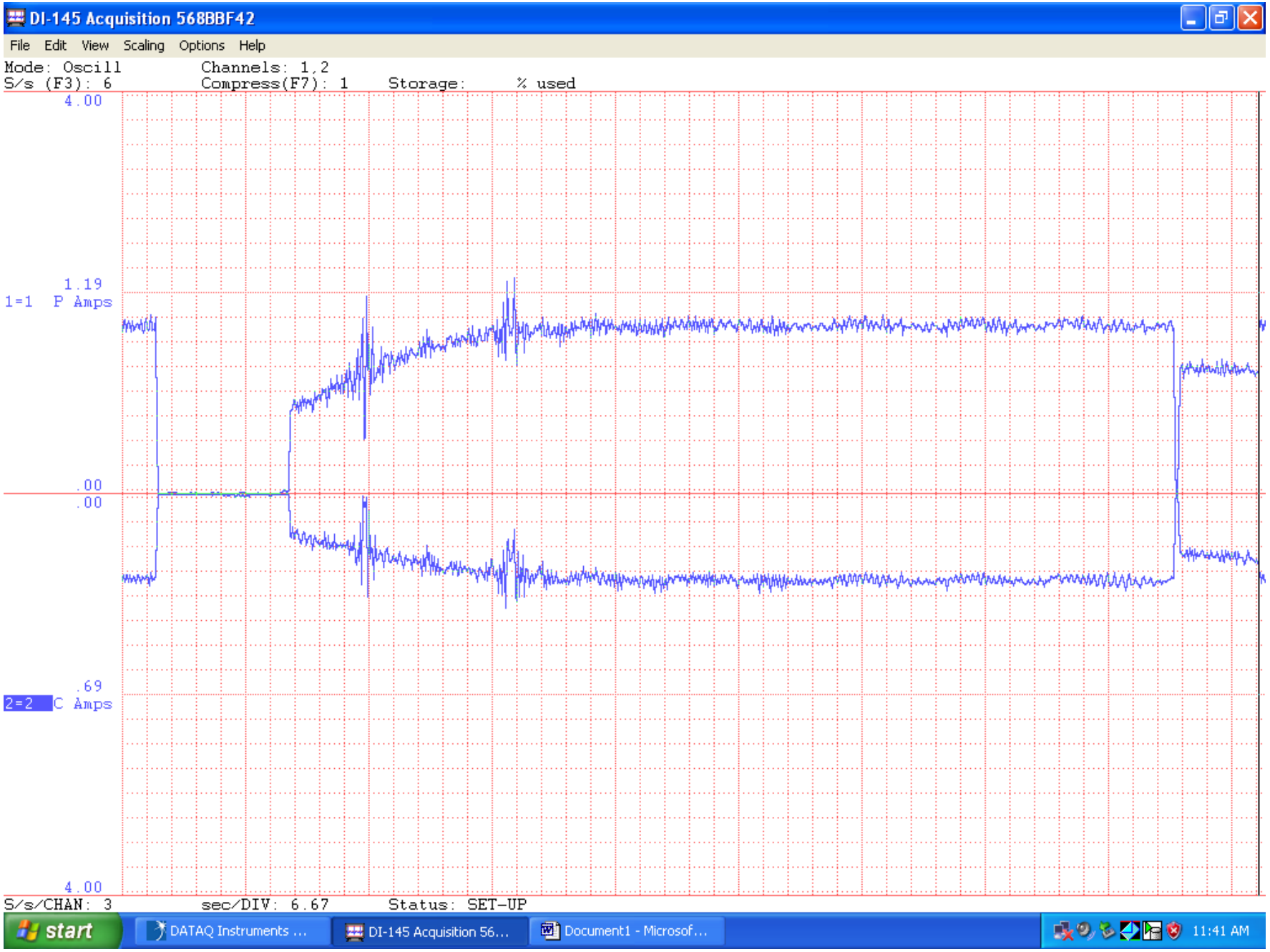
Graph #2 - 257 RPM Unstable Zone examples w/ 12 ohms 0.365” Gap – depicts Amp pulse pattern; Note the width of the pulses.



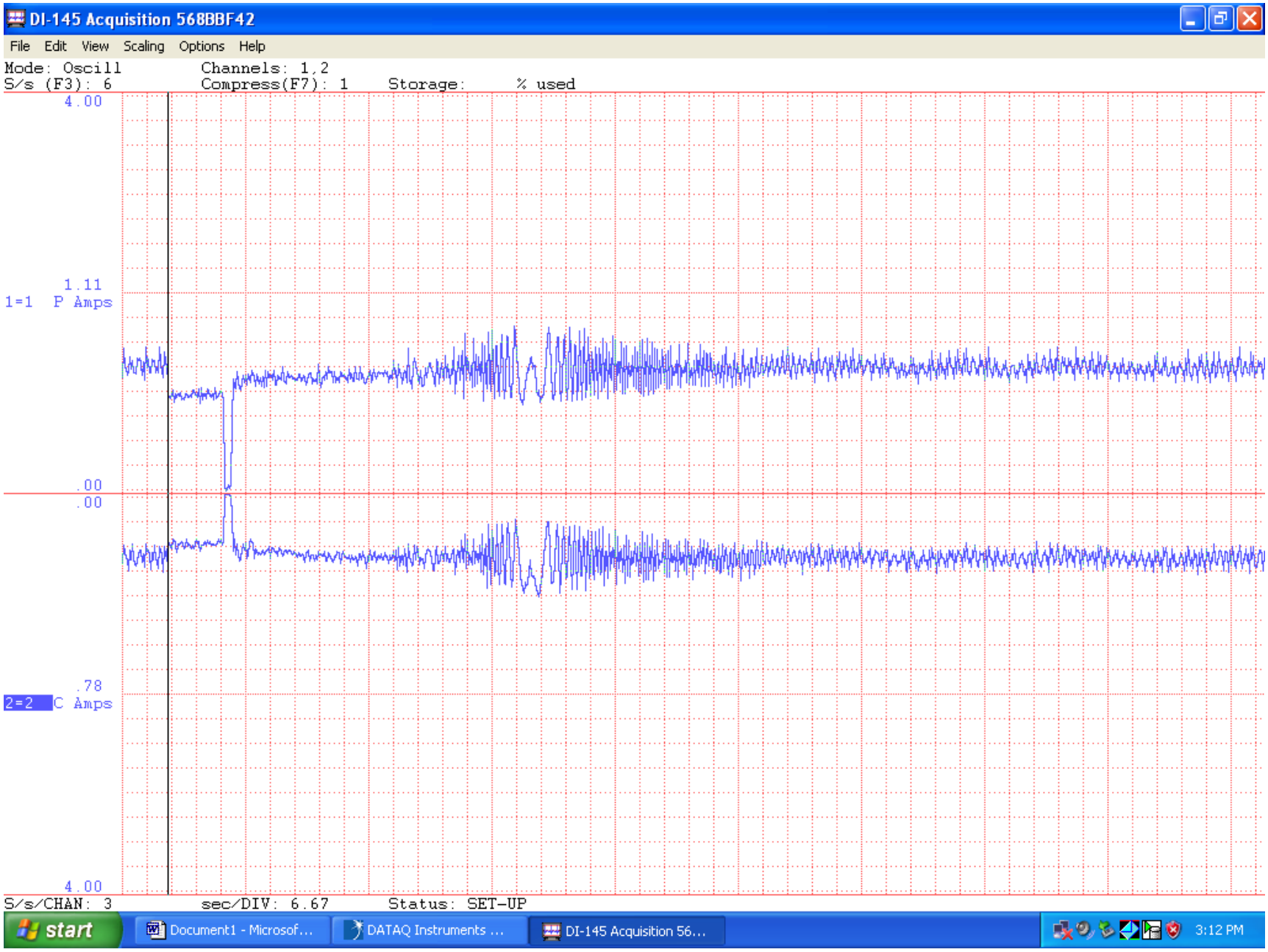
Graph #3 - 248 RPM **w/o resistor** 0.365” Gap – depicts Amp pulse pattern as prior with same sampling rate but outside of transition zone. Note the width of the pulses in comparison to Graph #2



Graph #4 Same as above but with lower sampling rate – demonstrates the zoom factor created by raising or lowering the sampling rate.



Graph #5 Change to Wheel #1 @ .250” Gap; Note 227 rpm Transition Zone Pulsing pattern. The “W” shape indicates the Transition zone at this RPM.



Graph #6 Wheel #1 @ .250” Gap 227 rpm – Sampling 3/sec; Tuning into pulse pattern with resistor; Note that trough yields Amp ratio ~1 for a short time of 5 secs. The pulsing behavior could be likened to a pump