

Take FFT data and apply a hand arm weighting filter

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I have taken some vibration data and converted it to an FFT then saved this data to a csv file (Freq versus m/s^2). There are three axis of vibration so the file contains four columns: Frequency, X vib, Y vib, Z vib. There are about 1600 lines with frequencies starting at around 25 HZ up to about 19,999 HZ.

Can I take this file, read in the FFT data, and apply a hand-arm weight to the data using the weighting VI or one of my "home made" weighting VIs?

I would like to convert the FFT data to a 1/3 octave spectrum, then weight the spectrum according to ISO-5349 (hand arm vibration).

I know how to do all of this with the raw (time domain) data but this is saved FFT data. Not sure if the question makes sense, but basically I screwed up and took some vibration numbers, saved the FFT but forgot to apply the 1/3 octave hand arm vibration weight. Just wondering if it can be done later.

Jeff

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