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Subject: Audibility of Non-Linearity

Posted by [Wayne Parham](#) on Fri, 09 Oct 2009 01:01:45 GMT

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I'd like to know more about that. Please elaborate if you have time.

For right now, I have three ways of looking at non-linearity:

1. With an oscilloscope, look for clipping. This is easy to do if the signal is electric.
2. Look for harmonics using a stepped sine. Lock onto whatever multiple of the fundamental I want to see, 2nd, 3rd, etc.
3. Use two sines and watch for sum and difference tones.

Each of those tests expose something about system non-linearity, so I can learn something from each one.

I always welcome new information, to explore other things that might prove useful or interesting, so please explain your thoughts when you have time.

(We may want to move or split this thread into the measurement forum, because I think it's headed more and more that direction.)