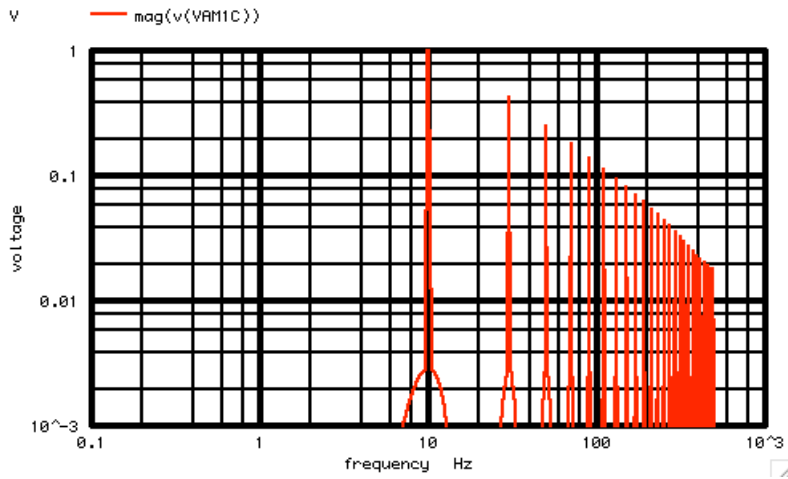


**\*=====MacSpice\_Spectrum\_Format=====**

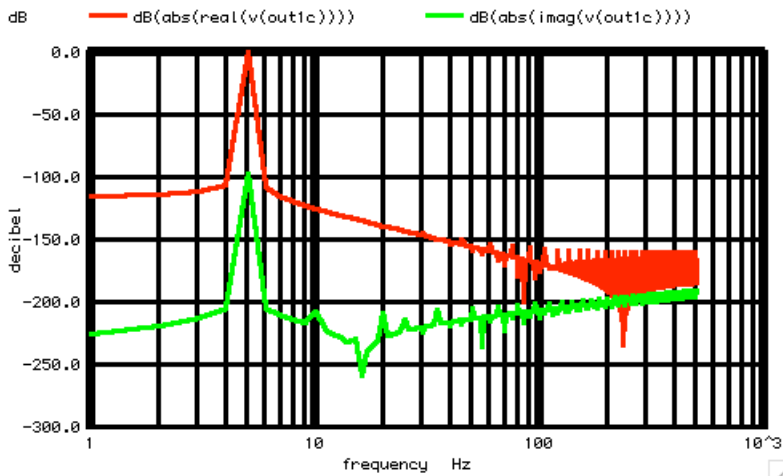
The Euler format may not be the optimum format for a spice spectrum plot. The following is the format that MacSpices uses.

First, everyone thinks in terms of **frequency**, not radians per second.

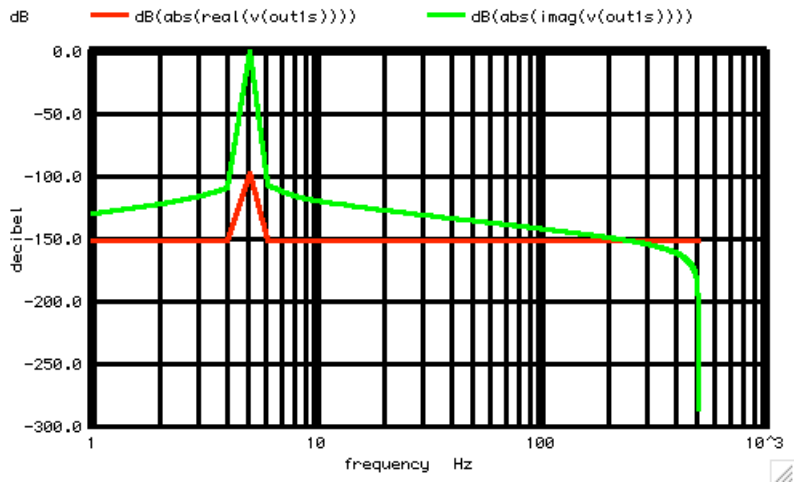


Second, Signal dynamic range and frequency dynamic range typically encourage some type of a **loglog plot**.

Third, putting in a **unity cosine** wave into a FFT and having a real magnitude come out anything other than having a **gain of one** will confuse some people.

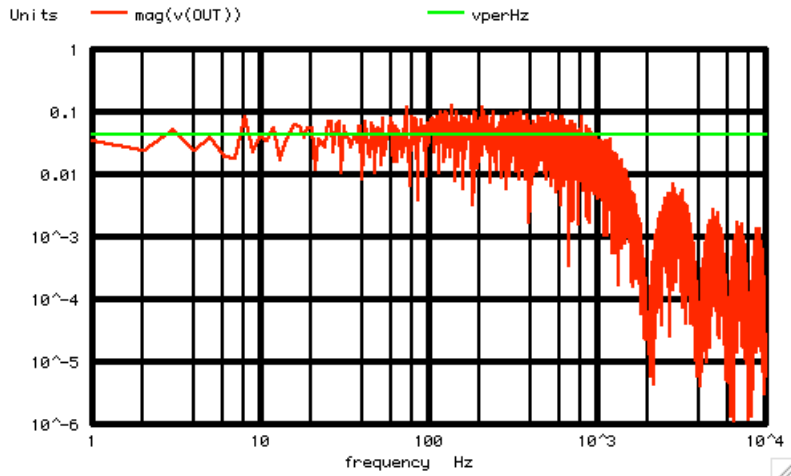


Fourth, putting in a **unity sine** wave into a FFT and having an imaginary magnitude come out anything other than having a **gain of one** will confuse some people.



Fifth, having a DC term (**frequency = zero**) in an FFT output will create some problems when plotting the spectrum as a loglog plot. So it is not used. In other words it is a **pure AC** plot.

Sixth, the signal is assumed to be in **magnitude format**, and not **RMS format**, even for random noise.



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