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Subject: Re: Turntable Cartridge Measurements

Posted by [Wayne Parham](#) on Mon, 08 Jul 2019 23:21:09 GMT

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Single-frequency sine signals are useful for measuring speed accuracy and for measuring channel separation. Cartridge azimuth has an effect on channel separation: If the stylus is perfectly perpendicular to the groove, then a signal on the left channel groove will be present only on the left channel and not on the right, and vice versa.

1kHz sine

Using a 1kHz sine in both channels, we can see amplitude and phase matching:

1kHz on both channels

The amplitude and phase are well-matched between channels. Looks like there's a slight zero-offset difference between left and right channels.

1kHz on the left channel only

1kHz on the right channel only

The signal is present only on the channel intended, so azimuth is set pretty well.

### File Attachments

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- 1) [Both\\_1kHz.png](#), downloaded 1101 times
  - 2) [Left\\_1kHz.png](#), downloaded 1105 times
  - 3) [Right\\_1kHz.png](#), downloaded 1088 times
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