Subject: Signal To Noise Ratio
Posted by Concorde on Thu, 13 May 2021 02:08:08 GMT
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I'm trying to better understand SRN and its relation to decibels. The main thing I'm stuck on is how there can be more signal than noise, and how does that effect the decibal level. Wikipedia didn't explain it that well.

Subject: Re: Signal To Noise Ratio
Posted by Wayne Parham on Thu, 13 May 2021 14:25:29 GMT
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The "signal" is the content that you want and the noise is everything else, like static, hiss, hum, etc.

If the noise were 10,000 times lower than the signal, it would be 40dB lower.

That "10,000 times less powerful" is really just how decibels work: 10dB is 10x, 20dB is 100x, 30dB if 1000x and so on.

So the SNR is expressed in decibels, and it's really just how many decibels less noise is in comparison with the desired content signal.

Subject: Re: Signal To Noise Ratio
Posted by Silver on Thu, 13 May 2021 23:48:30 GMT
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So a decibel is produced by the diffence? I just thought it was the loudness dictated by the volume knob.

Is this how they determined that The Who concert back in the day was the loudest ever recorded?