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SNR is defined as the ratio of signal power to noise power, often expressed in decibels. A ratio higher than 1:1 (greater than 0 dB) indicates more signal than noise.

Mass spectrometers are increasingly used for trace analysis, and an understanding of the factors that affect the estimation of analyte detection limits is important when using these instruments. There are ...

Power levels and "dB" The spectrometer usually provides us with a way of altering the RF power level and hence the strength of the B1 field. This is useful as we may wish to set the B1 field strength to a ...

In a spectrometer, the desired signal consists of the optical power at a given wavelength directed by the diffraction grating (and by the DMD, in a DLP-based system) to the detector.

Learn the crucial steps for operating a spectrophotometer and translating measured light levels into meaningful, quantifiable substance amounts.

The Signal-to-Noise Ratio (SNR) and Dynamic Range (DR) are two common parameters used to specify the electrical performance of a spectrometer. This technical note will describe how they are defined ...

Spectrophotometers provide two primary measurements: transmittance and absorbance. Transmittance (%T) indicates the percentage of light that passes through the sample. A high %T ...

Q: Why am I getting negative dB values when measuring noise levels with my application? A: This usually means your measurement baseline or spectrometer calibration is set ...

In addition to spectrometry, it is also used in many other areas. There, e.g. in audio processing or communications engineering, the signal-to-noise ratio is defined somewhat differently ...

In spectroscopy, dynamic range is the ratio between the maximum and minimum signal intensities that a spectrometer can detect. More specifically, dynamic range is the maximum detectable signal (i.e., ...

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