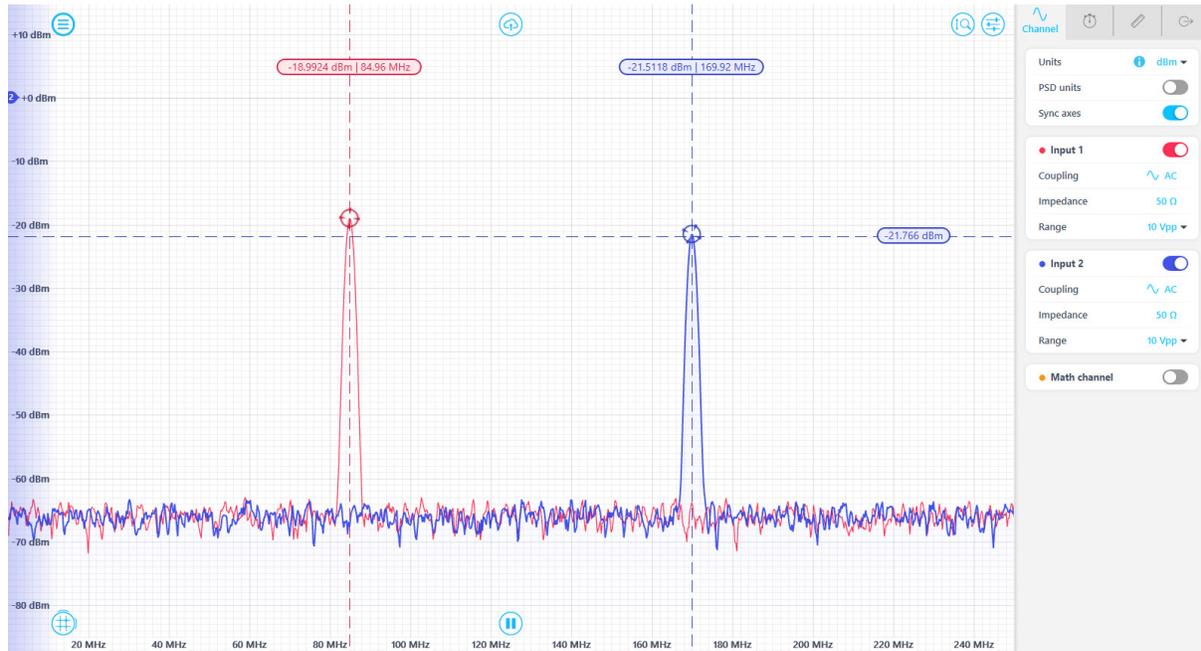




# Spectrum Analyzer



The Moku:Lab Spectrum Analyzer allows you to observe input signals in the frequency domain between DC and 250 MHz. View two channels of data simultaneously with a resolution bandwidth as low as 1 Hz over a minimum span of 100 Hz. The Spectrum Analyzer also features two integrated waveform generators capable of producing sine waves at up to 250 MHz.



<b>Frequency range</b> DC to 250 MHz	<b>Frequency span</b> 100 Hz to 250 MHz	<b>Minimum RBW</b> 1 Hz	<b>Video filter bandwidth</b> 10 Hz to 2.4 MHz	<b>Signal generator</b> Integrated	<b>Output frequency</b> Up to 250 MHz
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## Features

- High-bandwidth input and output options: display and record power spectra or power spectral densities in the frequency domain from DC to 250 MHz
- Generate two sine waves up to 250 MHz using the Moku:Lab built-in analog outputs
- Quickly measure key metrics by dragging measurement cursors onto features of interest
- Python, MATLAB, and LabVIEW APIs for advanced programming support

## Specifications

- Frequency range: DC to 250 MHz
- Frequency span: 100 Hz to 250 MHz
- Resolution bandwidth (RBW): span dependent, minimal RBW is 1 Hz
- Number of inputs: 2
- Input range: 1 Vpp or 10 Vpp
- Input impedance: 50 Ω / 1 MΩ
- Noise floor: -130 dBm with 1 Vpp input range, 1 Hz RBW
- Number of outputs: 2
- Output frequency range: 1 mHz to 250 MHz
- Output voltage: 2 Vpp into 50 Ω

## Applications

- Frequency domain analysis
- System response characterization
- Noise measurement
- RF system design
- Spurious signal identification