

# Model 5961-001 Narrowband Analyzer

Version 1.6

## Interactive and Batch Single-channel Analysis

### Features

Fourier transform size

### Windows

None, Hanning, Hamming, Blackman-Harris, 4-term Blackman-Harris, 7-term Blackman-Harris, Blackman, LabVIEW, and P301Flat-top

Selectable analysis parameters

Magnitude detection strategies

### Analysis Types

Power Spectral Density (PSD), Auto Spectrum, or Fourier Spectrum

Spectral averaging strategy determination based on number of averages

Spectral averaging for any number of channels

### File Formats

SDRC "Universal" (Type 58), Comma-separated variable (CSV) Excel-compatible, CATS or DATX format, Statistics, JPEG graphical plot output

### Channel Selection Strategies

Random/Manual, Contiguous Set (batch), List File

Superimposition of limits on plots

### Ordering Information

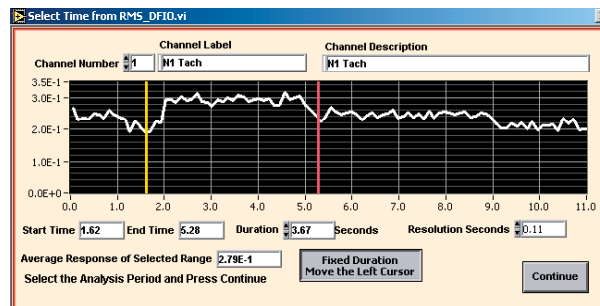
Model 5961-001



Acquiring, Processing and Managing the World's Data.

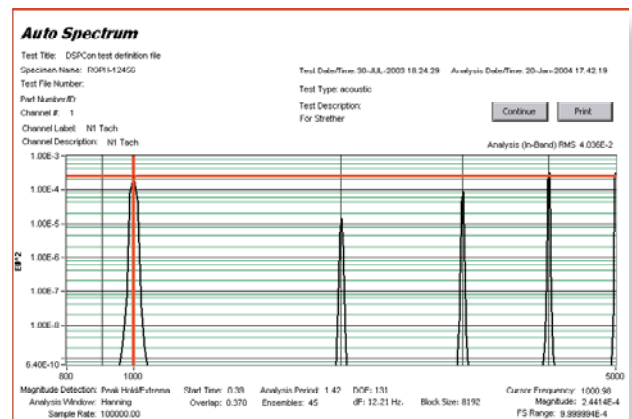
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The Narrowband Post-processor analyzes one or more CATS and DATX time history files. It determines the measured spectral-response level in terms of Power Spectral Density, Auto Spectra, and Fourier Magnitude using the Fourier Transform. Fast Fourier Transforms (FFTs) of up to 128K points are employed for high-speed analysis, and arbitrary-block-size transforms are used to provide flexibility in spectral resolution.

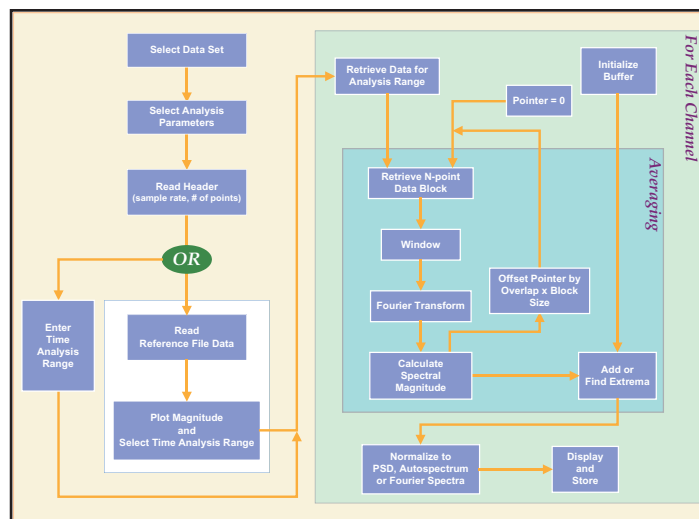


The Analysis Time Selection window plots the RMS response of a selected channel as a function of time for the entire test. Two cursors, separated by the time duration, are used to delimit the analysis duration.

Analysis Time Selection Window



Auto Spectrum Data Analysis Results



The Analysis Process Defined