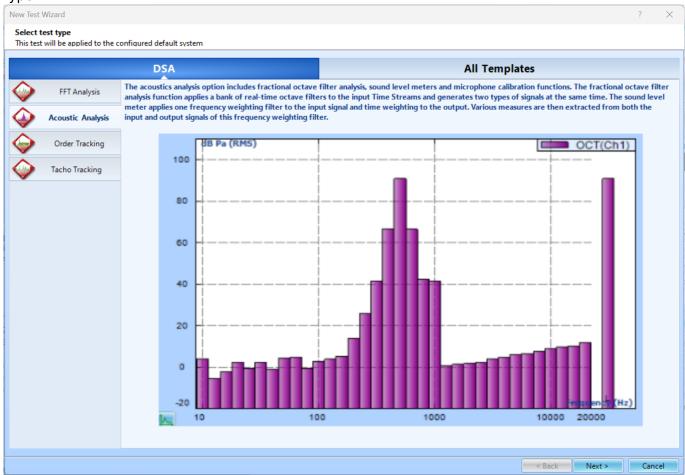
2025/07/23 01:53 1/5 DSA Acoustic Analysis

DSA Acoustic Analysis

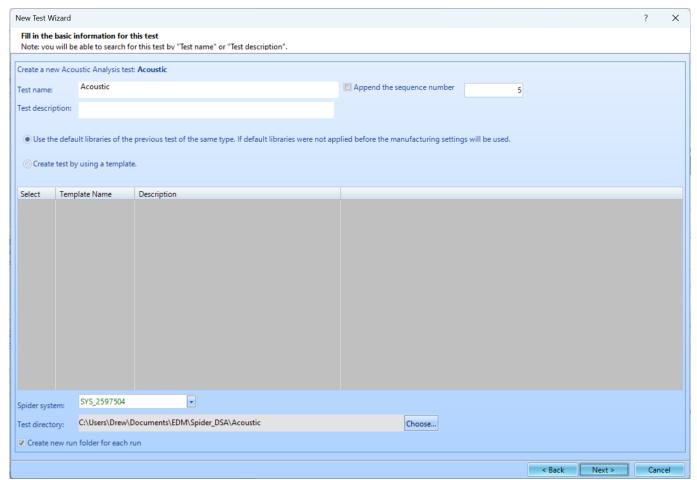
Follow the guided steps below on how to set-up an Acoustic or Octave Analysis in EDM to use with Spider hardware.

Create Test

In EDM, select to create a new test. From the New Test Wizard, select the **Acoustic Analysis** test type.

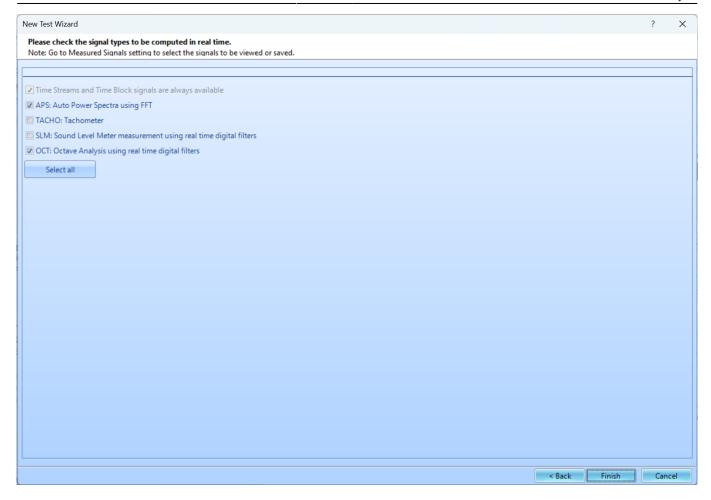


Next, give the test a name and description.



Finally, select the signal types that are wanted. The options include Auto Power Spectra (APS), Tachometer (TACHO), Octave Analysis (OCT), and Sound Level Meter (SLM). You are **unable** to add more signal types to be computed once the test is created. Press **Finish** to create the test.

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Test Configuration

For Acoustic Analysis, there are two unique parameters that may need to be set up, *Octave Filter* and *Sound Level Meter*. Please go here for more information on basic FFT Analysis Parameters.

Octave Filter Parameters

If Octave Filters are being applied, their parameters must first be set.

Octave Resolution- Defines the octave resolution including: 1/1, 1/3, 1/6, 1/12, and 1/24.

Low/High Frequency Band- Defines the low and high frequency of the measurement in Hz.

Average Mode- Defines the averaging type: exponential, linear and peak hold.

Frequency Weighting- Defines the frequency weighting including A, B, C or Z.

Time Trace Frequency- Defines which center band frequency, overall or frequency weighted band is used to plot time traces.

Trace Update Times- Defines the time trace display duration. Select a larger update time to create longer time trace display duration.

Octave filter parameters——————					
Octave resolution	1/3				
Low frequency band (Hz)	10				
High frequency band (Hz)	10000				
Average mode	Exponential 💌				
Frequency weighting	Z				
Time trace frequency	Overall				
Trace update times(s)	0.04				

Sound Level Meter (SLM) Parameters

If the SLM is being used, the parameters must first be set.

Time Trace Type- Defines the time weighting including L, Leq and LE.

Analysis Period- Specifies the time duration for each analysis period.

Result Update Time(s)- Defines how many times the result will be updated.

Result History- Defines the measurement length of the result history.

Sound level meter parameter —				
Time trace type	L Time-weighted 🔻			
Analysis period	None			
Result update time(s)	10			
Result history	256			
Frequency weighting	Z			

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