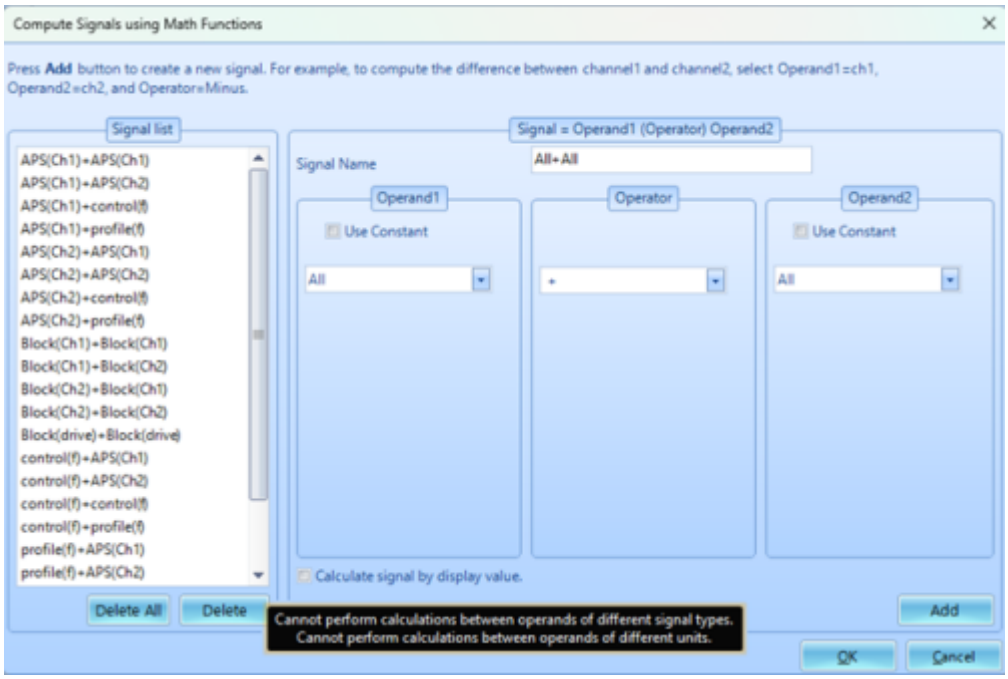
VCS UI Signals Tab

Signals

Signals gives user control over settings related to display, appearance, data recording/saving and processing options.

PC Math Signals

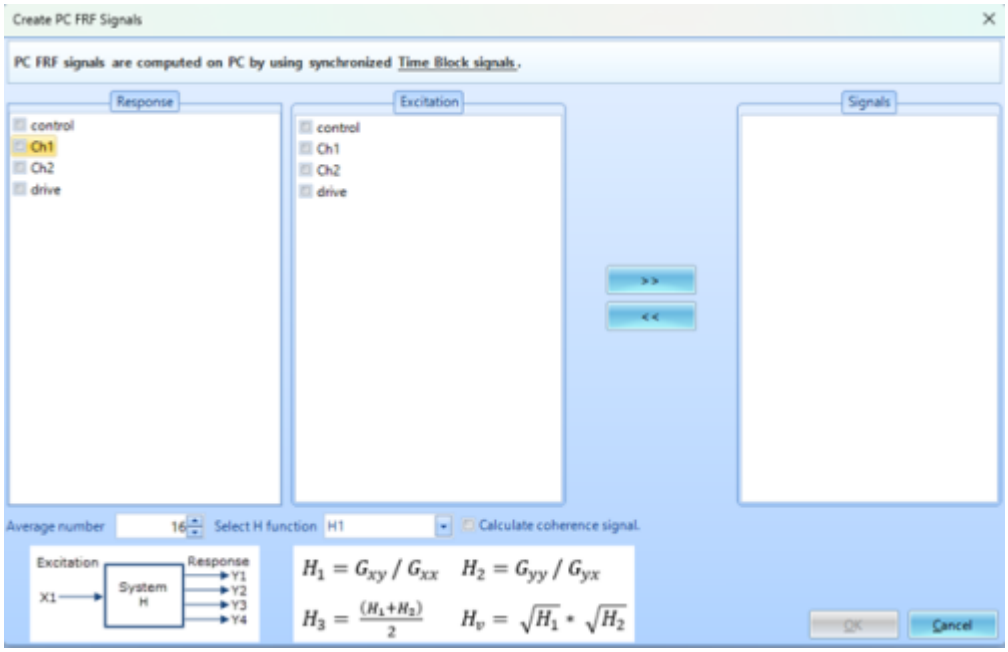
Signals will display once entered Compute Signals using Math Functions tab and selecting Add



Operand 1 & 2 can be any time stream data input or a constant value of user selected choice. Operator options are limited to four basic functions: +, -, * and /.

PC FRF Signals

Similar to PC Math signals in selection style.

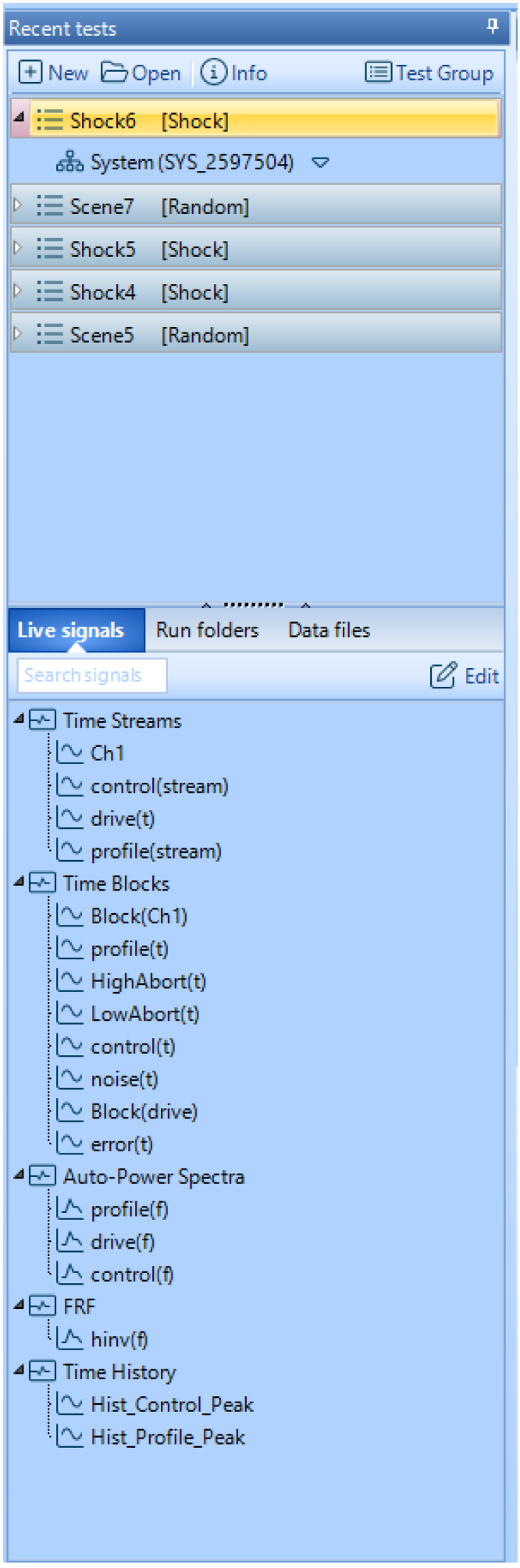


PC FRF signals give user options to create transfer functions for desired input (response) and output (excitation) channels. Also allows for customization of FRF and coherence calculations.

Signal Tab

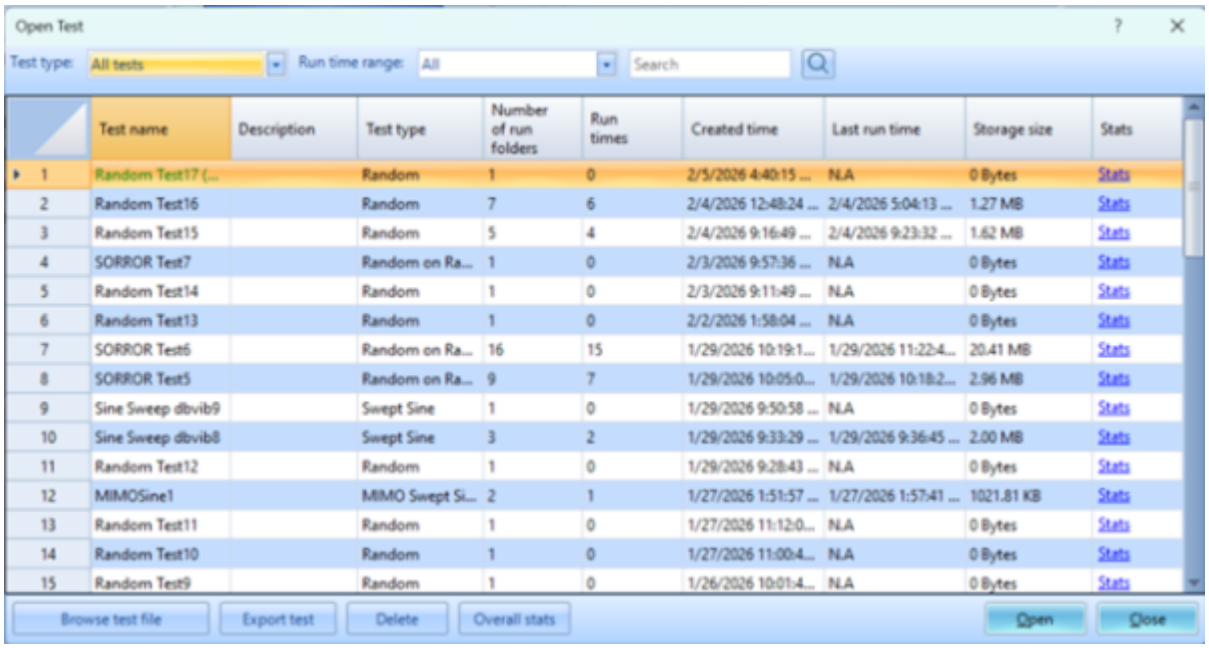
Live Signals will update in real time as testing is conducted. The time stream data will update continuously. The Block and frequency derived data will be updated as each new block is processed. For testing conducted with short block intervals this will be very similar to time stream data, but under long block collection testing parameters, the data can take several seconds to update. Run Folders show previous runs within testing setup. It will also include saved data and time history within the run folder. Data Files tab allows files and folders to be uploaded to the test. This can include timestream data from previous runs in common formats such as .txt, .csv, , .atfx and other common formats.

Recent Test Tab

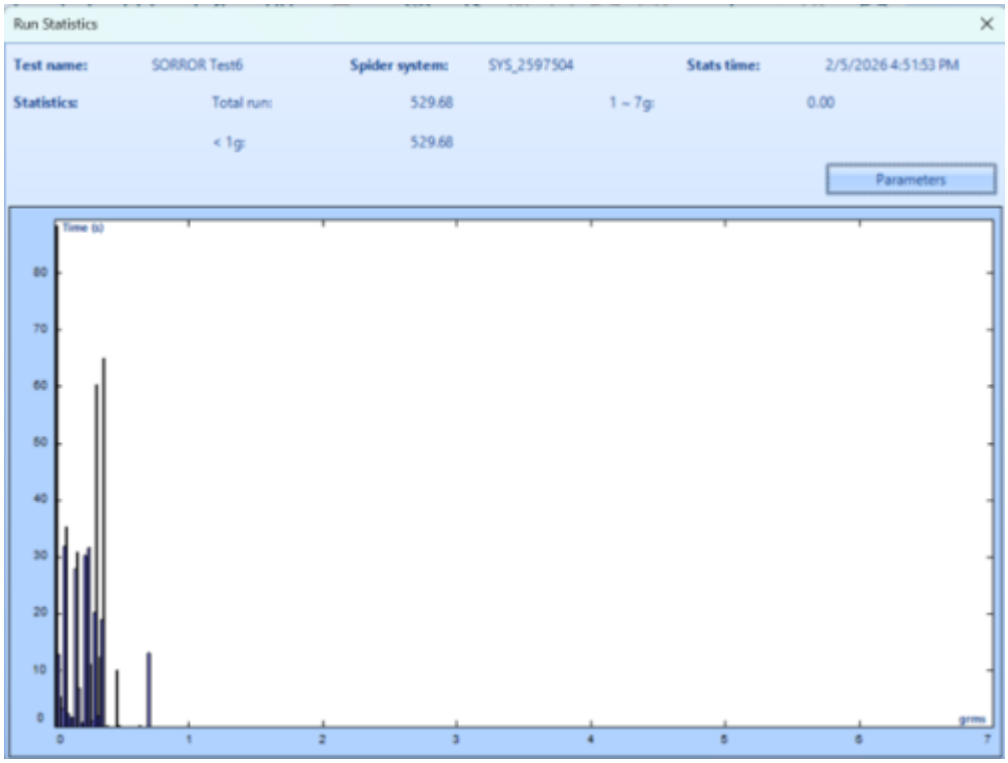

Recent tests
New
Open
Info
Test Group
Shock6 [Shock]
System (SYS_2597504)
Scene7 [Random]
Shock5 [Shock]
Shock4 [Shock]
Scene5 [Random]
Live signals
Run folders
Data files
Search signals
Edit
Time Streams
Ch1
control(stream)
drive(t)
profile(stream)
Time Blocks
Block(Ch1)
profile(t)
HighAbort(t)
LowAbort(t)
control(t)
noise(t)
Block(drive)
error(t)
Auto-Power Spectra
profile(f)
drive(f)
control(f)
FRF
hinv(f)
Time History
Hist_Control_Peak
Hist_Profile_Peak

New Test Opens New Test Wizard will send user back to selection screen including testing type and shaker arrangement.

Open Test Brings up display with previous tests conducted.



Tests can then be directly exported or opened from this menu. Double click to open or select test before clicking export. Test statistics can be selected from the right-most column corresponding to each test.



Test Group