

# Test Generation Shortcuts

*Today's Presenter: Joel Minderhoud*

*We will begin shortly!*



# Test Generation Shortcuts

- To obtain a copy of these Slides:

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- **If you have an idea for a presentation or webinar, let us know!**



# Meet VR



Joel Minderhoud  
Research Scientist



# VibrationView 2016

VibrationVIEW - Demonstration Mode - Live Random Test Data

File Edit Configuration Test Recorder Graph Cursor View Window Help

Main Toolbar

Navigator Open Test Edit Test Open Data Save Data Print Report New Graph Auto Scale Edit Graph Copy Graph Tile Vertical Help Context Help What's New

Test Control

Reset Averaging

Stop Code

Max Random Displacement on Ch 1

Demand (G RMS) Control (G RMS)

0.2552 0.2469

Display Peak Values

2.1348	Vel. (in/s RMS)	2.1725
0.4779	Disp (in pk-pk)	0.5006

Remain Level Time Total Time

2:59:54 0:00:06 0:28:40

Level Volts RMS

1) 100% 0.0000

Current Time

7/15/2016 4:45:57 PM

Test Name

Company XYZ with k4

Acceleration (G RMS)

Ch1	Ch2	Ch3	Ch4
0.0000	0.0000	0.0000	0.0000

View 1 (Acceleration Spectral Density)

## VibrationVIEW

2016.1.5.0

Library

- Recent test results
- New Test
- Analyzer
- ASTM
- Earthquake
- EN 60068-2-27
- Field Data Replication (more)
- ISTA
- Kurtosion
- MIL-STD-810G
- Random (more)

Learn

- Set up instructions
- How To ...
- Tips and Tricks
- Quick Tip Videos
- Video Tutorials
- Online Education @ 

Recent test results

- test file for webinar Stop Button Pressed
- test file for webinar Stop Button Pressed
- Company XYZ Max Sine Displacement
- Company XYZ with k4 Max Random Displacement on Ch 1
- Company XYZ with k4 Stop Button Pressed
- Company XYZ with k4 Stop Button Pressed
- End of Test
- End of Test

Recent profiles

- Company XYZ with k4
- test file for webinar
- Company XYZ
- Shock profil
- sine basic test 3
- test
- Sample Random Test
- sine basic test 2
- practice shock
- trial
- Whirlpool-Blue

How can I best manage data files in VibrationVIEW?

Check out our test setup video series on Data Management

[Learn More](#)

 VIBRATION RESEARCH UNIVERSITY

Show Navigator at Start-up  Enable online content

Acceleration Spectral Density (G<sup>2</sup>/Hz)

Drive (V<sup>2</sup>/Hz)

Frequency (Hz)

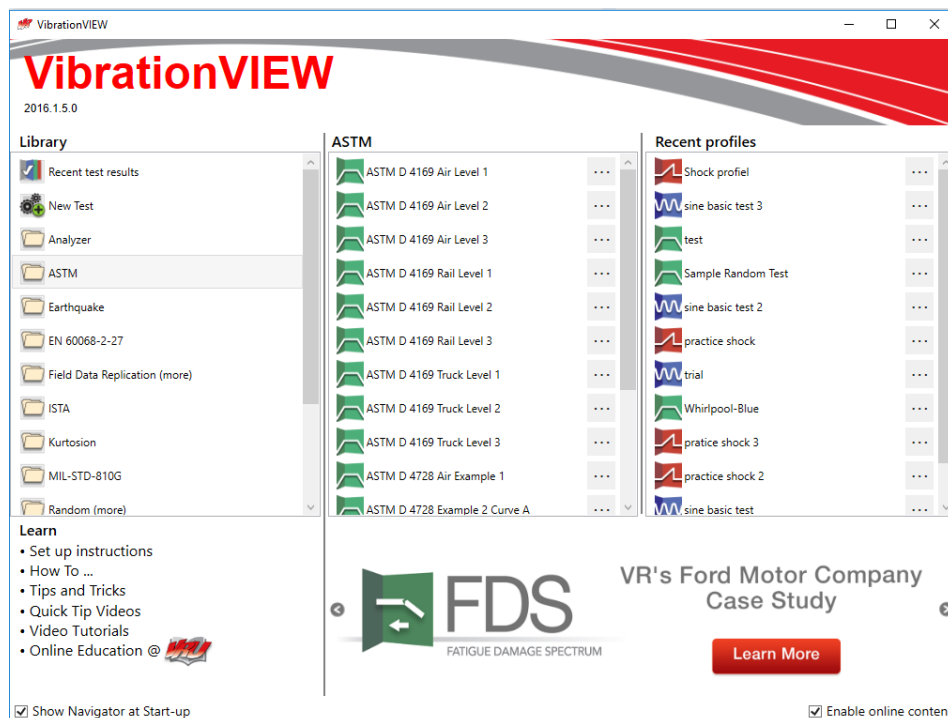
# Test Generation Shortcuts

- Library Profiles/Templates
- Default Template
- Memorized Drive
- Shaker Limits
- Copy/Paste
- Overlays

# Test Generation Shortcuts

## Library Profiles

- Use one of the pre-loaded (with all specs)
- Customize pre-loaded for your unique situation (save as Library Profile)





# Test Generation Shortcuts

## Library Profiles

- Customize pre-loaded for your unique situation (save as Library Profile)
- Navigator; Library; ASTM; File; Create; Save; TEST; Save as Default Template; LIBRARY (not Default); Create New Folder; Save
- C:\VibrationVIEW\New Test Defaults

# Test Generation Shortcuts

## Defaults

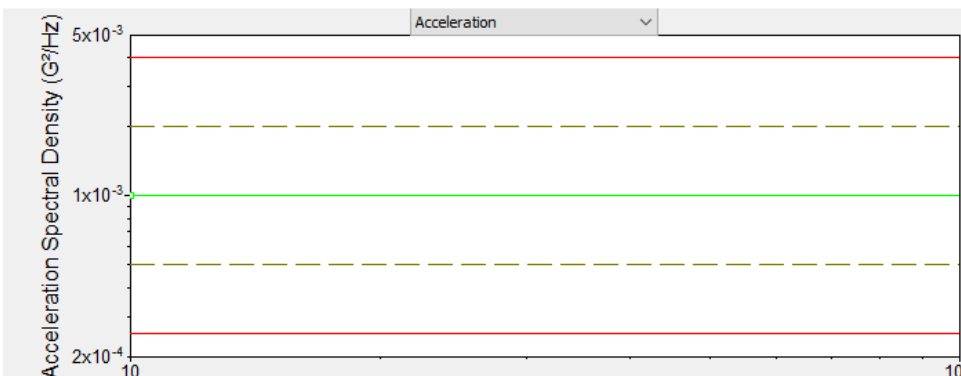
- a. Each of the tests opens with default settings. Change those default settings for your unique situation.
  - Eg: Data storage location
  - Eg: Perhaps you regularly make the same test that has different defaults than VibrationView



# Test Generation Shortcuts

## Defaults

Random Test Settings



Acceleration Spectral Density (G%Hz)

Frequency (Hz)

Notch Import FDS Combine  
Table Schedule Parameters Limits Pre-Test Channels Data Tables Calc R-o-R S-o-R S-o-R Param

Data storage directory: C:\VibrationVIEW\Data\2016-07  
Data file name: 2016Jul15-1557-0001  
Save reports in Data storage directory:   
C:\VibrationVIEW\Reports\2016-07  
Use Data file name for report:   
2016Jul15-1557-0001

Save data to disk  
 at end of level  
 at end of test  
 every 10 minutes  
 Prompt for Run Name and Annotation Lines when starting the test  
 Use this graph layout

Graph annotation lines  
Prompts  
Note 1  
Note 2  
Note 3

Prompt for save directory and annotation lines immediately after starting the test.

Simple OK Cancel Help

# Test Generation Shortcuts

## Shaker Limits

- Adjust shaker limits for your unique shaker
- Adjust shaker limits for your unique fixtures
- Save in folder with Company/Department name
  - **IMPORTANT:**
    - Mass of fixture, product, screws. . . is important for safety of shaker etc.
    - Handy to create shaker limit profile for each fixture and product combination

# Test Generation Shortcuts

## Shaker Limits

VibrationVIEW Configuration

Parameters Directories Users Verification Graph Defaults  
Hardware Inputs Outputs Units Limits Remote Inputs E-Mail Notification Web Server

Shaker Model  
Vibration Research VR-5400

Moving Mass Sine Random Shock Data Replay

	Sine	Random	Shock	Data Replay
Product	Force (peak)	40	75	40
0.1 lbs-mass	Force (ms)			17
Fixture	Velocity (peak)	89	89	89
lbs-mass	Displacement (pk-pk)	1	1	1
Armature	Acceleration (peak)			
1 lbs-mass	Acceleration (ms)			
Slip Plate	Drive Threshold Voltage	0.005	0.005	
lbs-mass	Drive Threshold Voltage		0.005	0.005
Driver Bar	Drive Maximum Voltage	10	10	
lbs-mass	Drive Maximum Voltage		3	3
Misc				
lbs-mass				
Total	Max Acceleration (peak)	36.36364	68.18182	36.36364
1.1 lbs-mass	Max Acceleration (ms)		15.45455	15.45455

Edit locked settings Save these settings

OK Cancel Apply Help

# Test Generation Shortcuts

## Memorized Drive

- Available for Random; Shock; FDR tests
- Prevent slow run-up in future tests
- Memorizes the run-up on a test and applies to future tests
- NOTE: Memorized drive will be tied to that particular profile. If you use that profile for other tests it will contain memorized drive information

# Test Generation Shortcuts

## Copy/Paste

- Use electronic format data (eg. Excel)
- Copy data and paste into profile
  - Onto Edit test; Table Tab; Right click – paste from clipboard

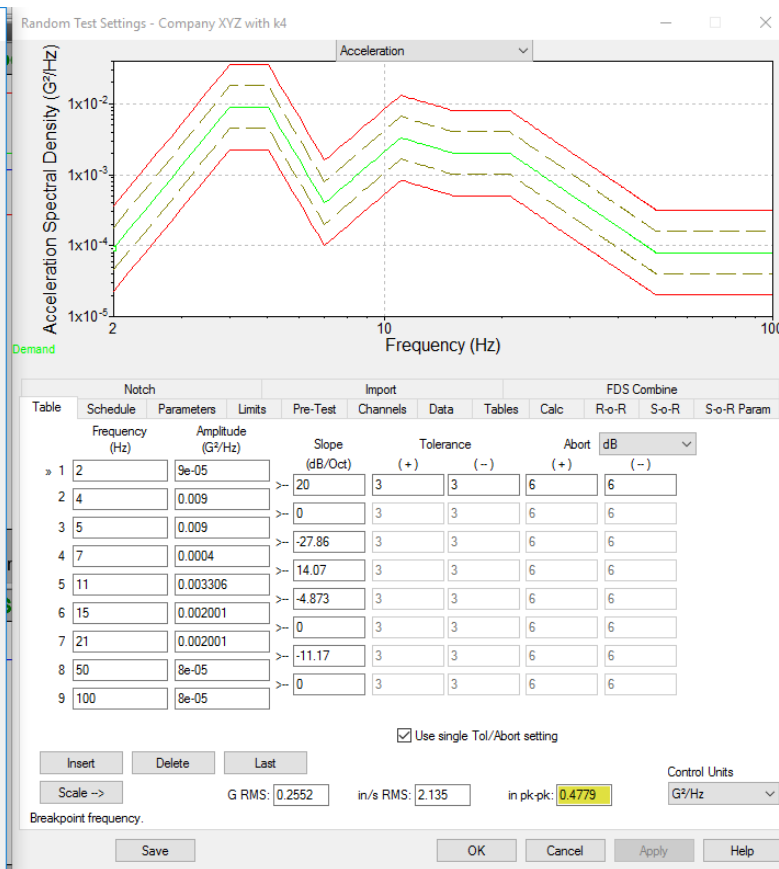
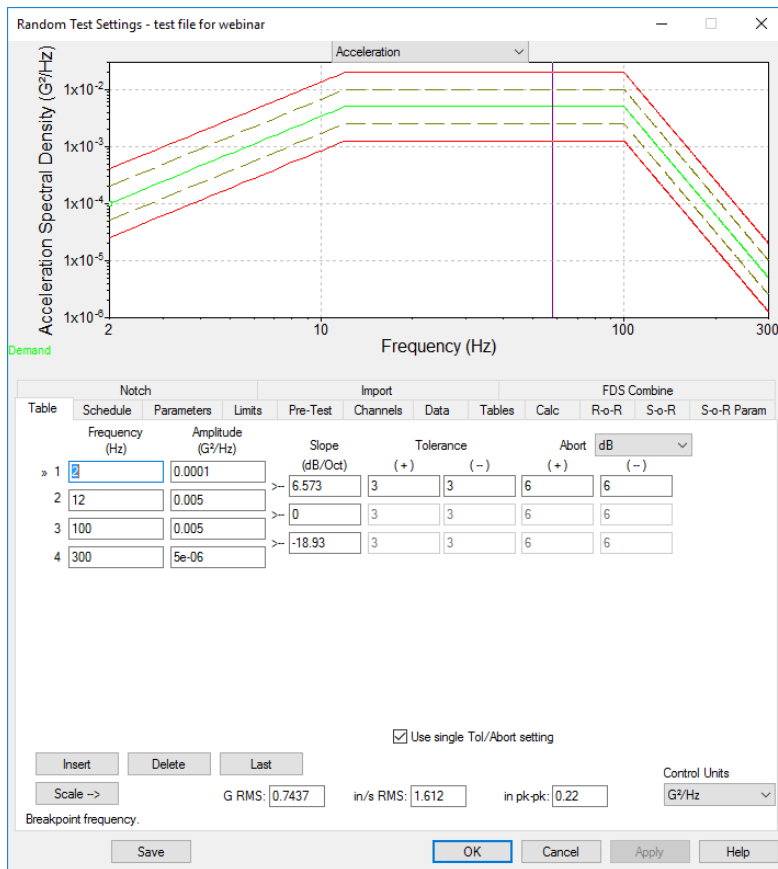
# Test Generation Shortcuts

## Copy/Paste

- From Profile sheet to Profile sheet
  - From tab to tab
  - Need two profiles open at the same time

# Test Generation Shortcuts

## Copy/Paste





# Test Generation Shortcuts

## Overlays

- A. Paste from File (Edit/Paste from File(s)/Select data file)  
(whatever traces are currently open on live graph)
- B. Copy/Paste Data from other graph onto current graph
  - Single click/right click and copy
    - Right click/paste
  - Double click/Data Tab; copy data
    - Right click/paste
- C. Control/Drag and Drop (off and on to screen) – makes a copy of a particular plot

# Thank You for Attending!

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