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Innovation

Do the Right Thing

Collaboration

Capable & Competant

Strong & Driven Work Ethic

Accountable & Responsible





Converting Data



Webinar
Joel Minderhoud
Research Scientist



Converting Data

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Tech support – support@vibrationresearch.com or 616-669-3028

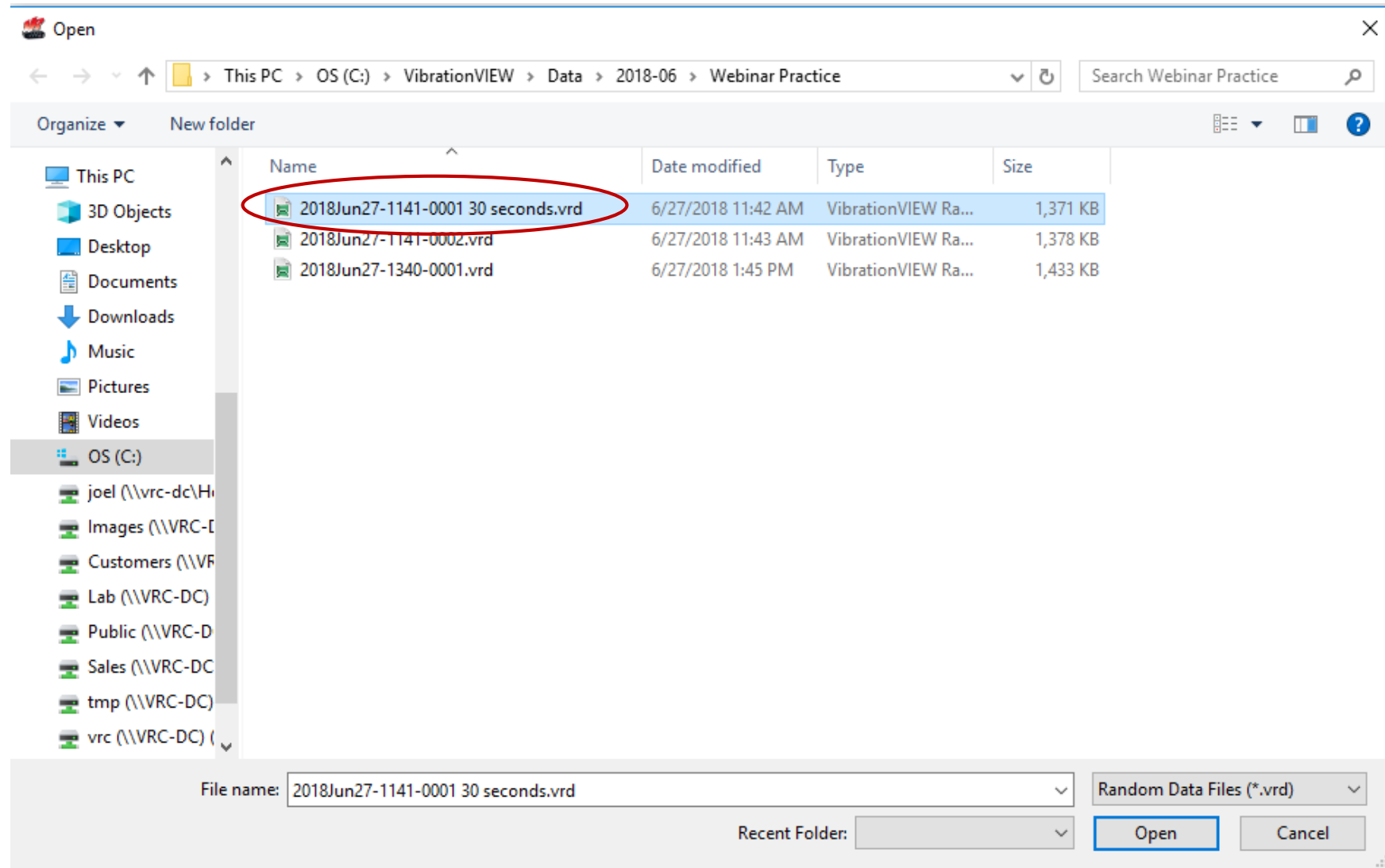
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Converting Data Files

To other forms (to share with others or for post-processing)

Converting Using File Name

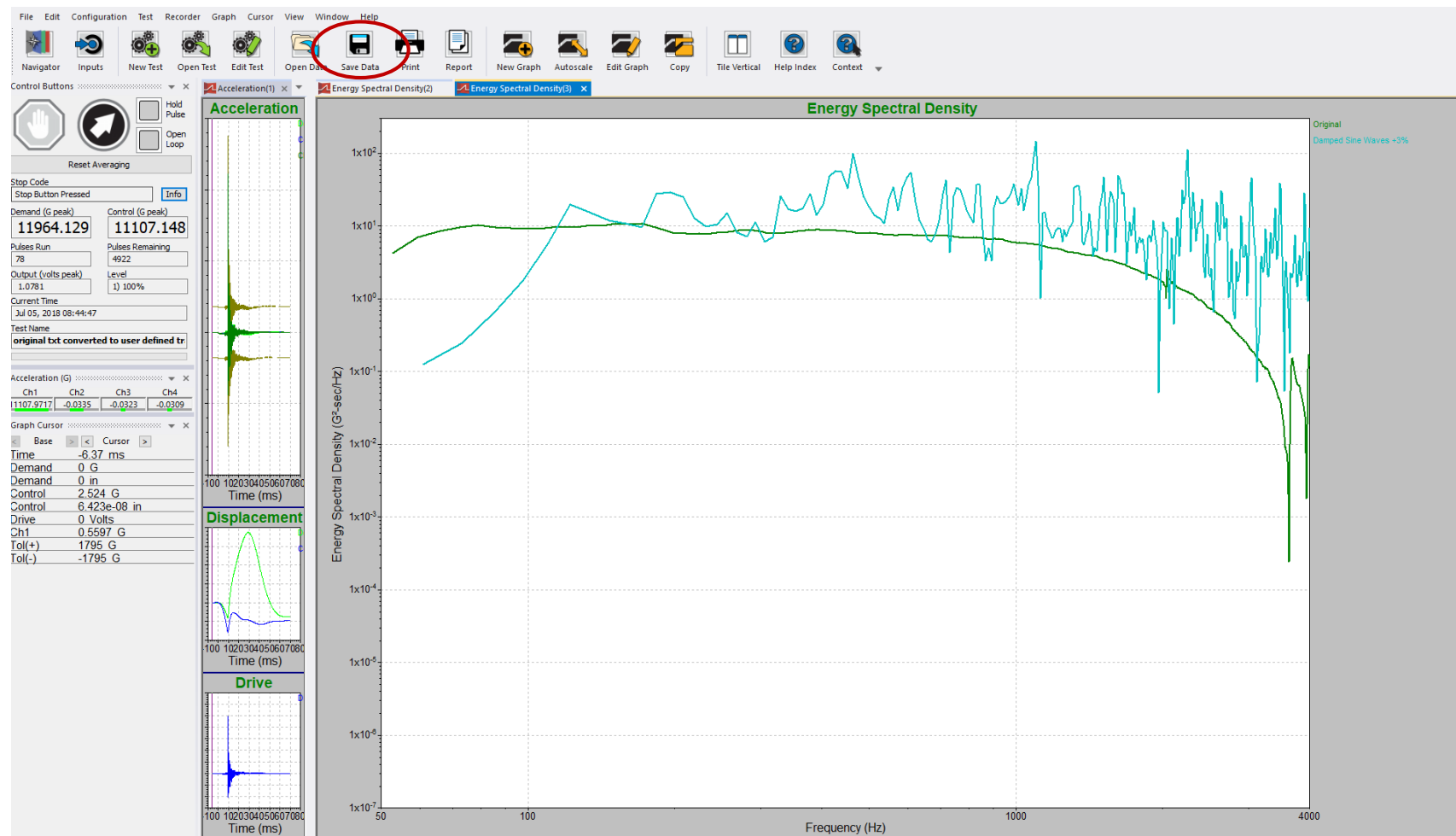
- Right click file name
 - Convert to .csv
 - Convert to .mat

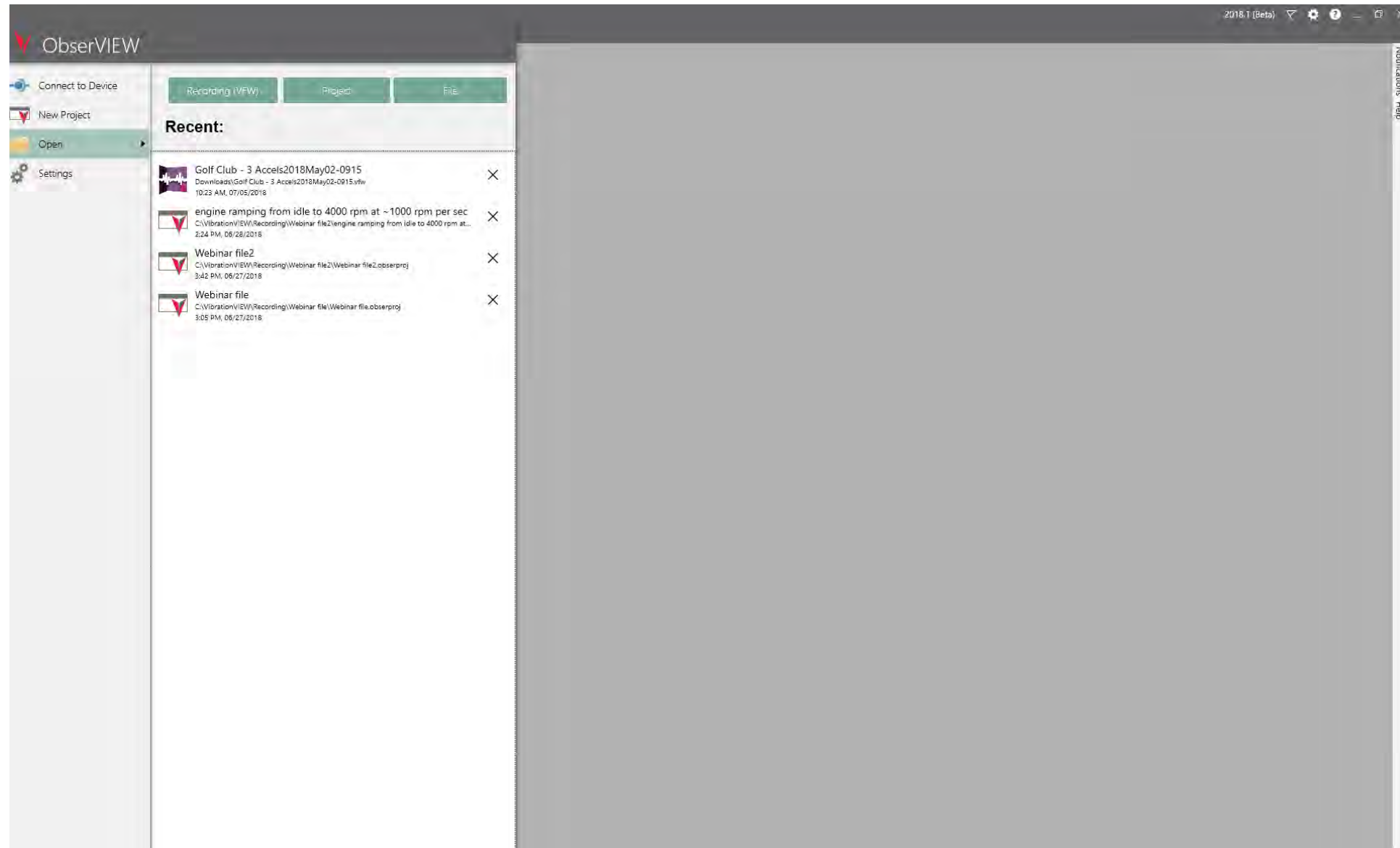


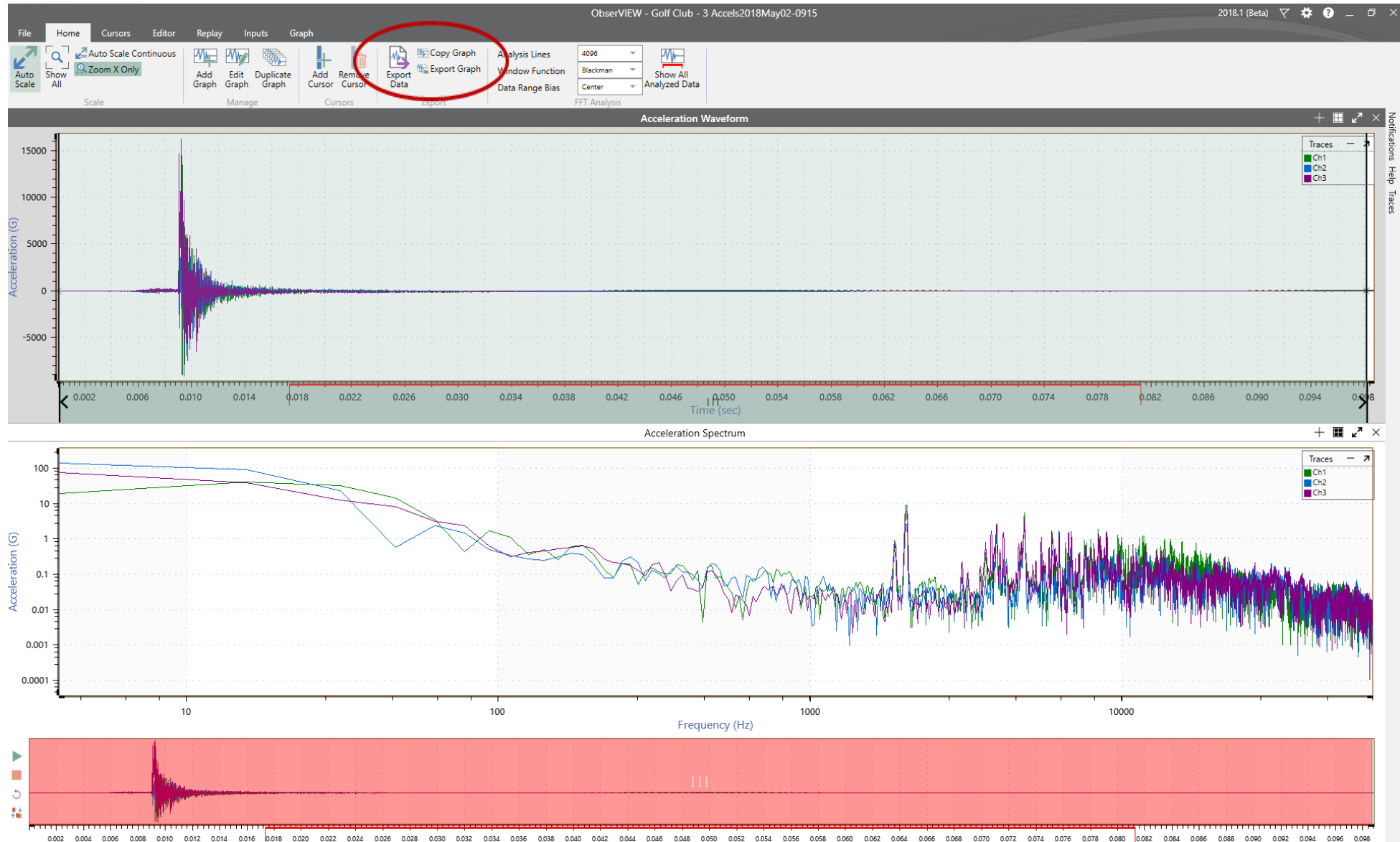


Converting Using Live/Open Data

- Right click "save data"
 - Convert to .txt
 - Convert to .csv
 - Convert to .mat



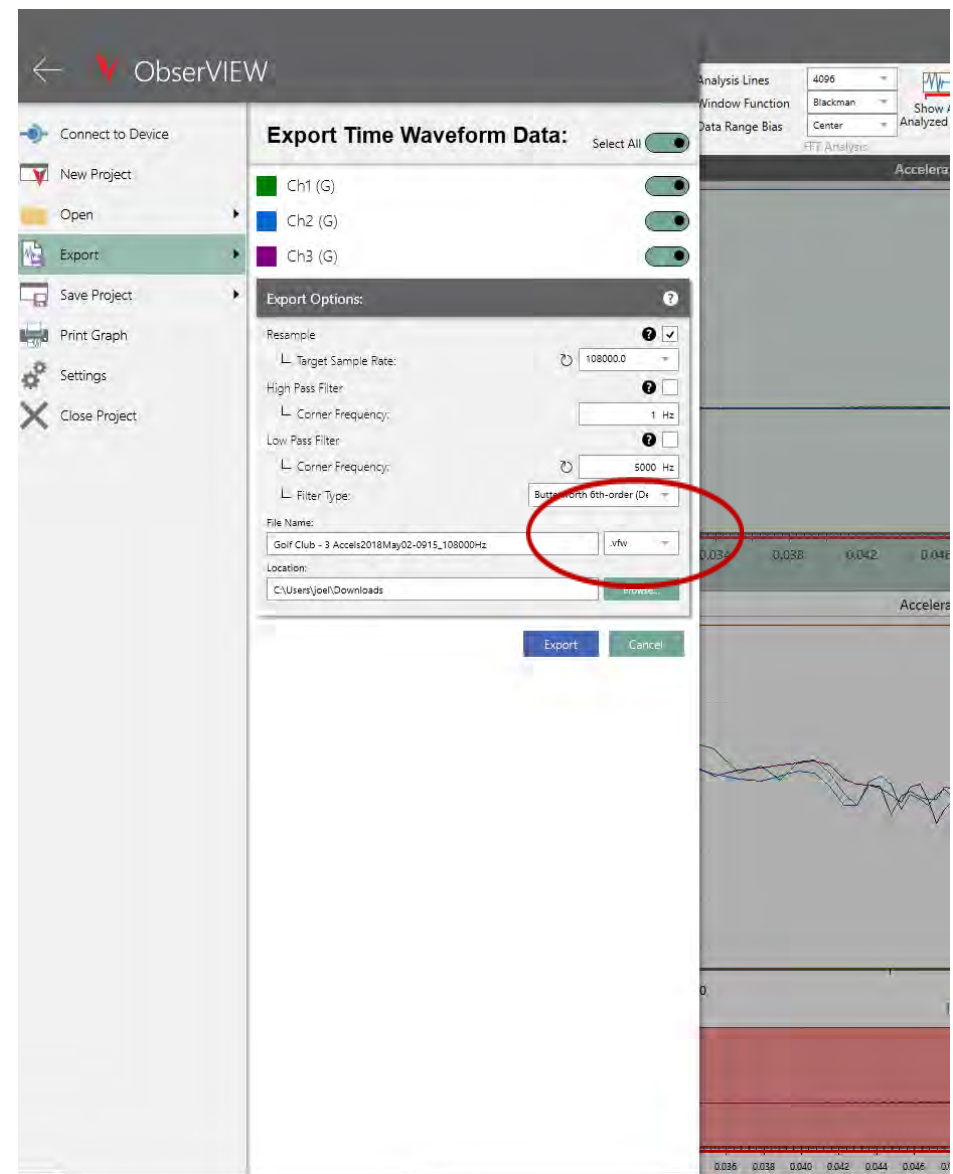






Converting a .vfw

- To .mat
- To .csv
- To .txt





1. Convert from file name
2. Convert from "live" or "saved" data
3. Exporting Data



Any Questions?



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Importing/Exporting Data



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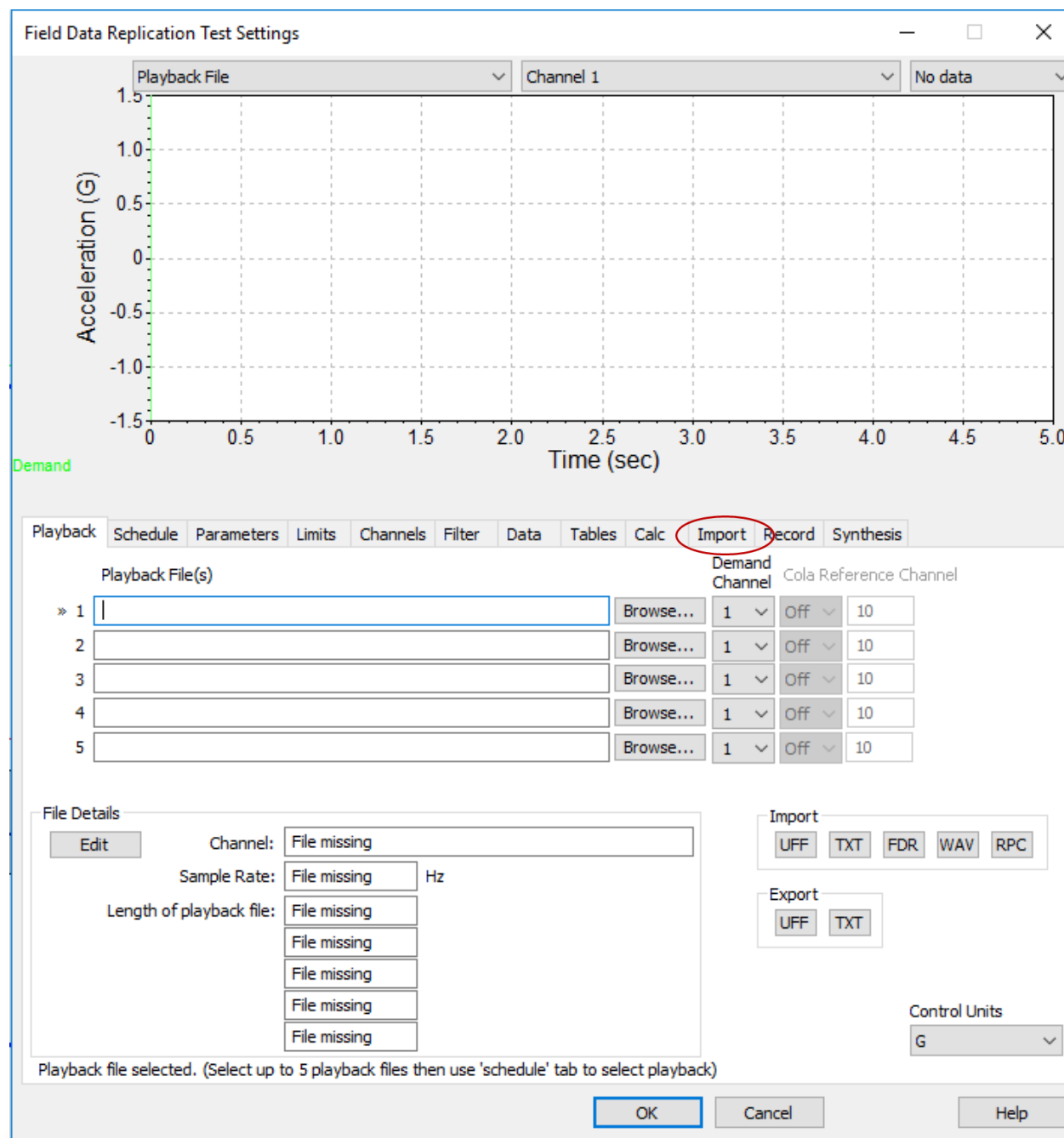
Importing/Exporting Data

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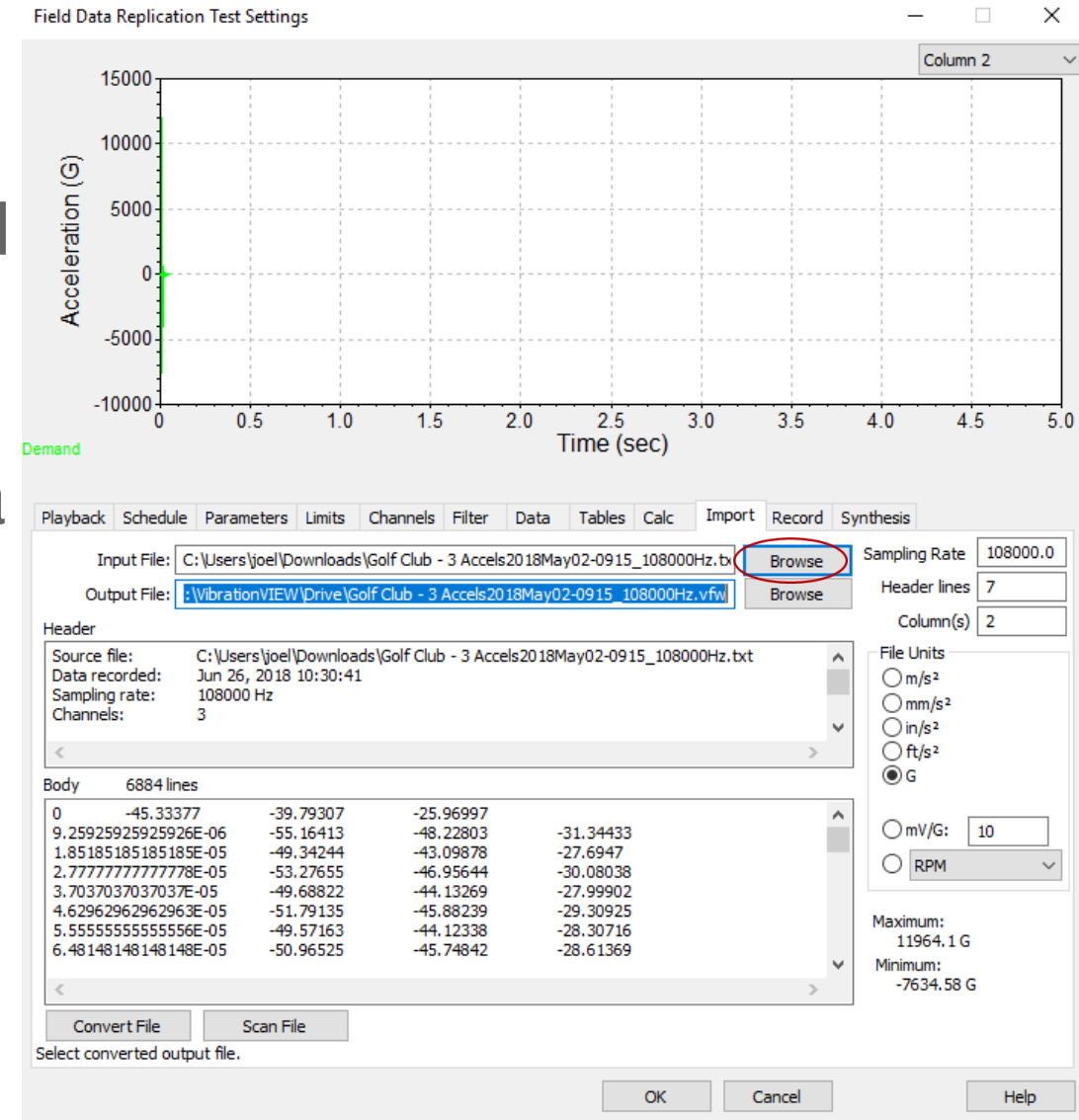
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Importing/Exporting Data





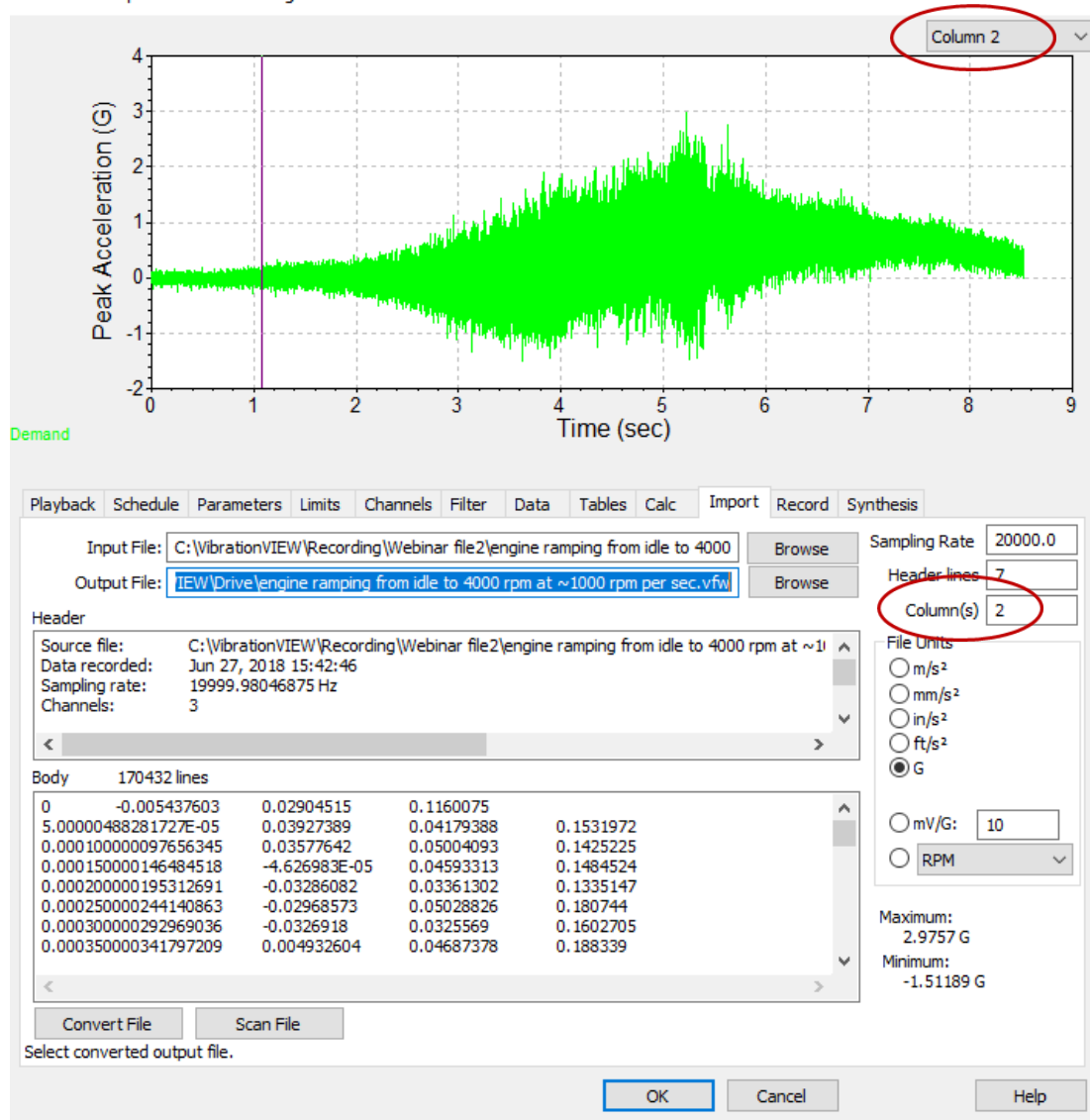
1. Browse for "input file"
 - ".txt" file
2. "Output file" automatically generated
 - As ".vfw" file
3. Select "column" or "channel" of data
4. Scan File
5. Convert File



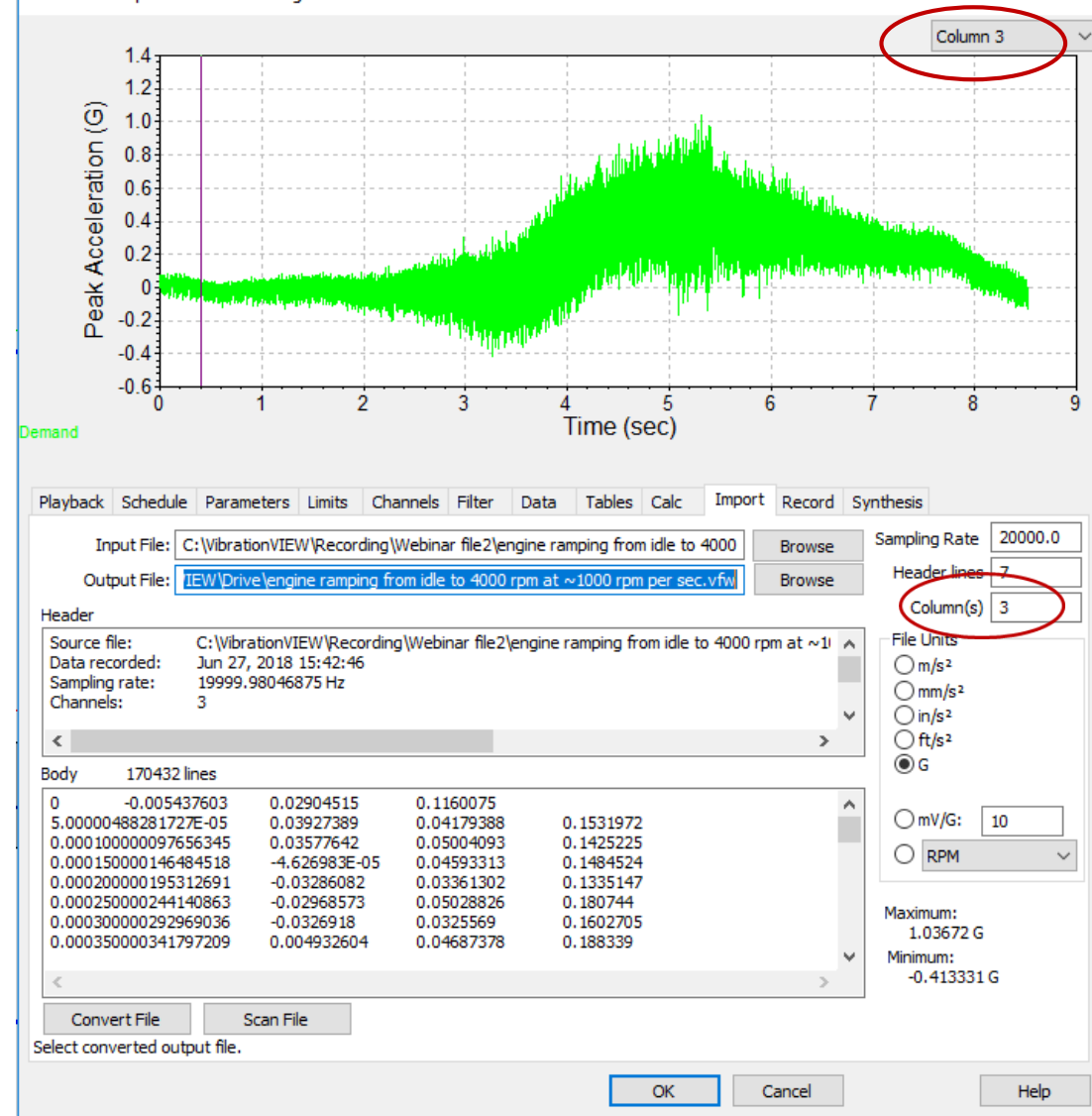


Import Tab

Field Data Replication Test Settings



Field Data Replication Test Settings





Import Tab

Field Data Replication Test Settings

Column 2

Peak Acceleration (G)

Time (sec)

Demand

Playback Schedule Parameters Limits Channels Filter Data Tables Calc Import Record Synthesis

Input File: C:\VibrationVIEW\Recording\Webinar file2\engine ramping from idle to 4000 Browse

Output File: IEW\Drive\engine ramping from idle to 4000 rpm at ~1000 rpm per sec.vfw Browse

Sampling Rate 20000.0

Header lines 7

Column(s) 2,3,4

Header

Source file: C:\VibrationVIEW\Recording\Webinar file2\engine ramping from idle to 4000 rpm at ~1000 rpm per sec.vfw

Data recorded: Jun 27, 2018 15:42:46

Sampling rate: 19999.98046875 Hz

Channels: 3

File Units

☐ m/s²

☐ mm/s²

☐ in/s²

☐ ft/s²

☒ G

☐ mV/G: 10

☐ RPM

Maximum: 2.9757 G

Minimum: -1.51189 G

Body 170432 lines

0	-0.005437603	0.02904515	0.1160075
5.00000488281727E-05	0.03927389	0.04179388	0.1531972
0.000100000097656345	0.03577642	0.05004093	0.1425225
0.000150000146484518	-4.626983E-05	0.04593313	0.1484524
0.000200000195312691	-0.03286082	0.03361302	0.1335147
0.000250000244140863	-0.02968573	0.05028826	0.180744
0.000300000292969036	-0.0326918	0.0325569	0.1602705
0.000350000341797209	0.004932604	0.04687378	0.188339

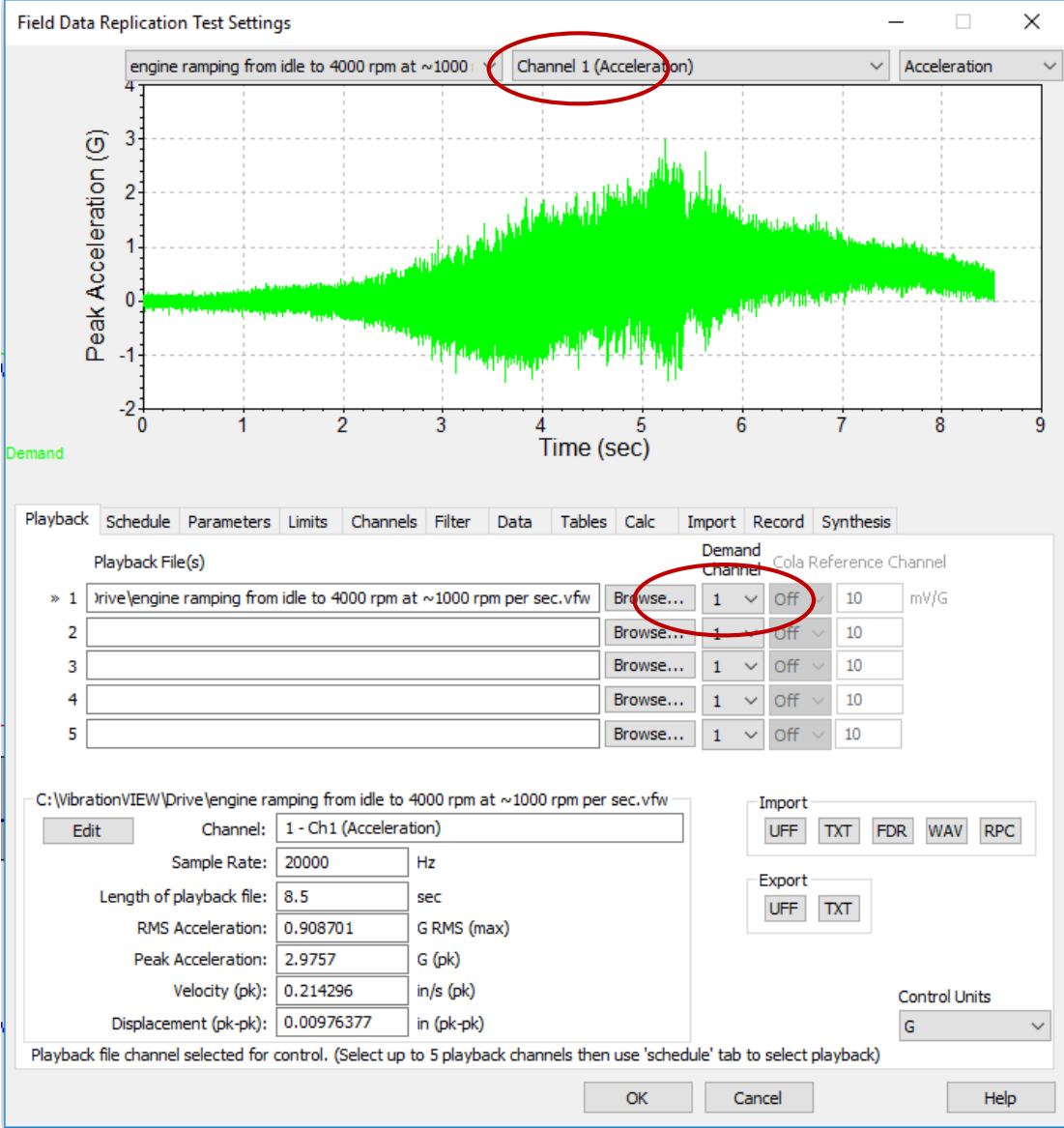
Convert File Scan File

Select converted output file.

OK Cancel Help

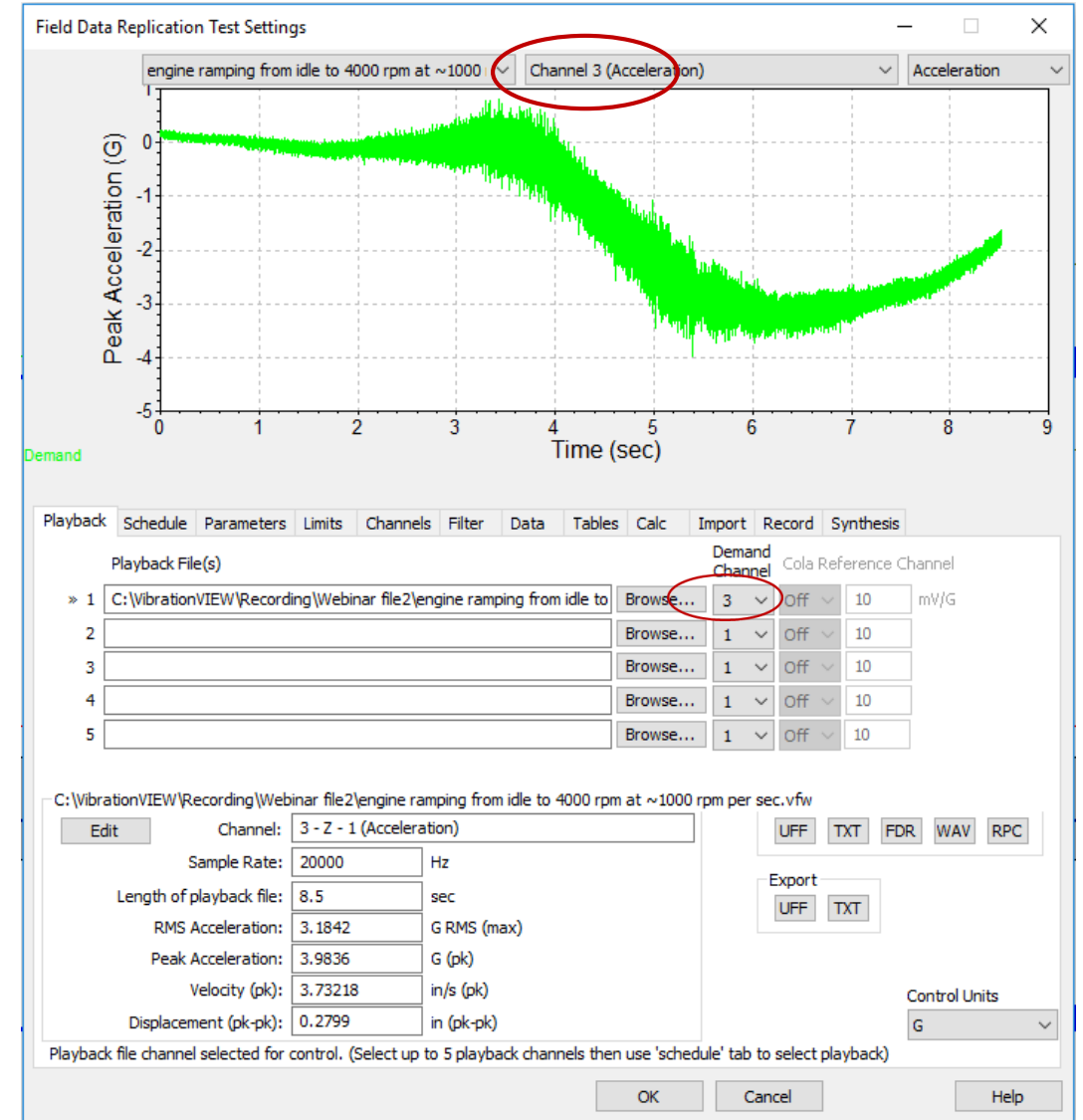
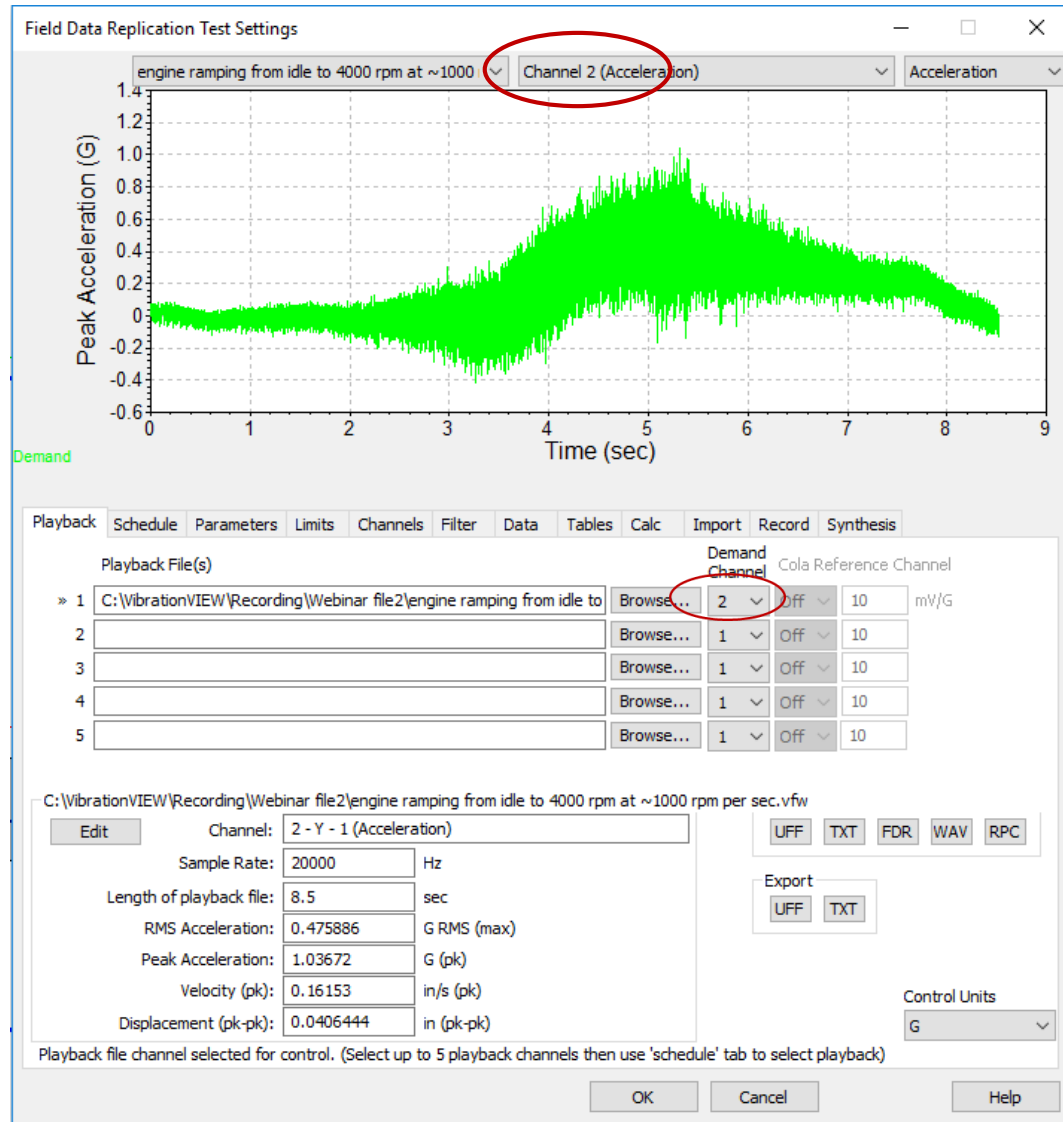


FDR Channel 1





FDR Channels 2,3





Export Conversion

Field Data Replication Test Settings

Playback File: [dropdown] Channel 1: [dropdown] No data: [dropdown]

Acceleration (G)

Time (sec)

Demand

Playback Schedule Parameters Limits Channels Filter Data Tables Calc Import Record Synthesis

Playback File(s)

	Playback File(s)	Browse...	Demand Channel	Off	On	Cola Reference Channel
» 1	[text box]	Browse...	1	Off	On	10
2	[text box]	Browse...	1	Off	On	10
3	[text box]	Browse...	1	Off	On	10
4	[text box]	Browse...	1	Off	On	10
5	[text box]	Browse...	1	Off	On	10

File Details

Edit Channel: File missing

Sample Rate: File missing Hz

Length of playback file: File missing

File missing

File missing

File missing

File missing

File missing

Import

UFF TXT FDR WAV RPC

Export

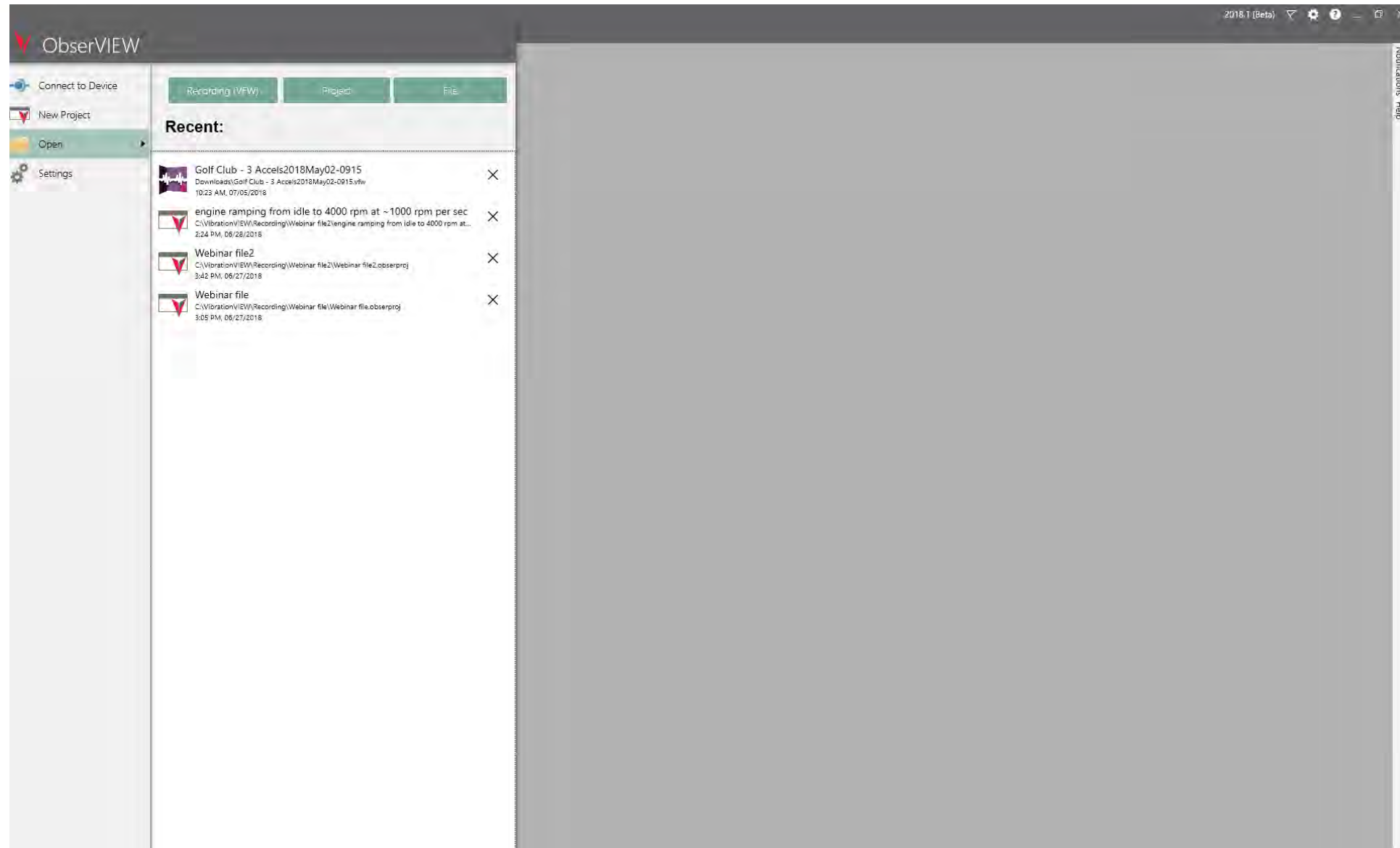
UFF TXT

Control Units

G

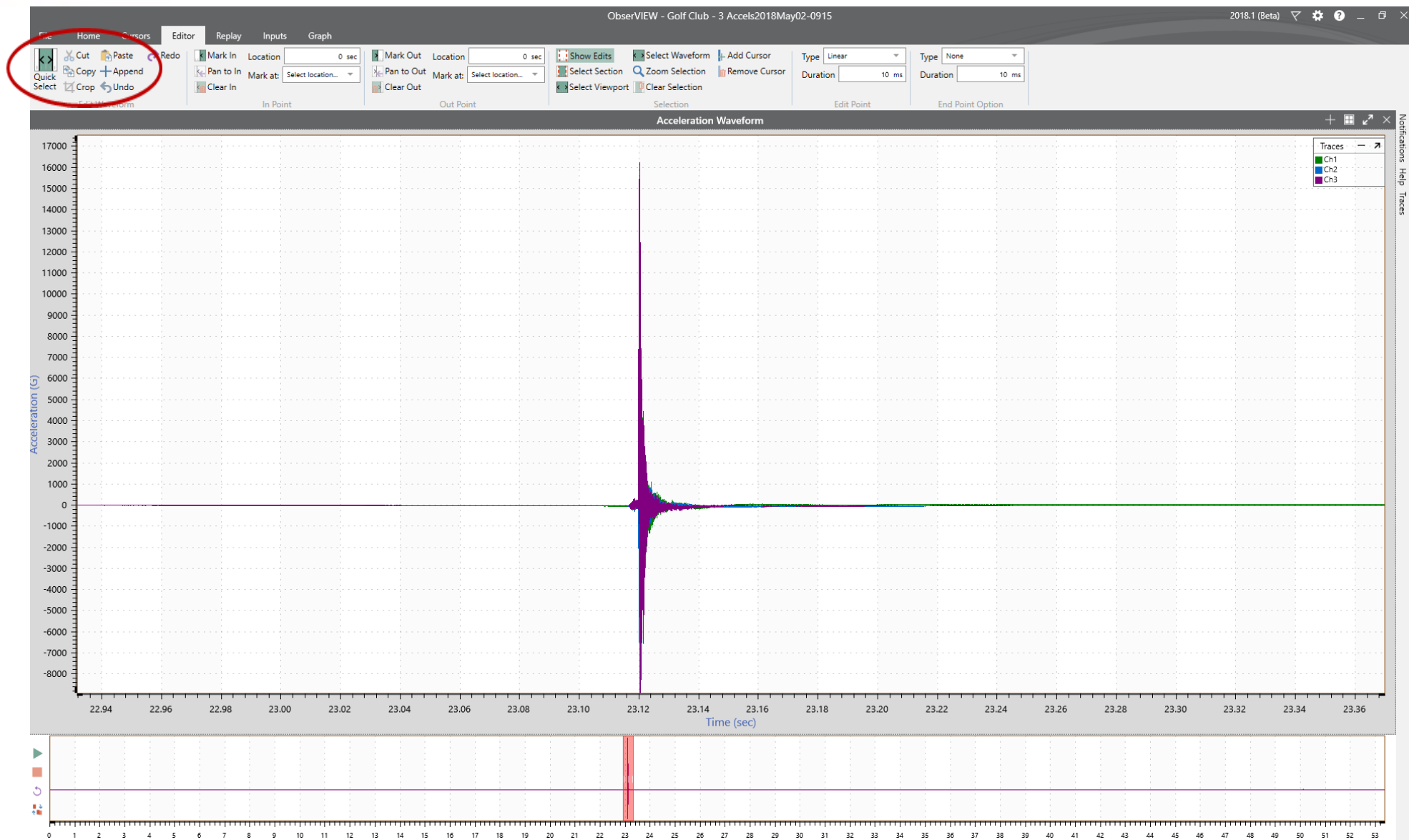
Playback file selected. (Select up to 5 playback files then use 'schedule' tab to select playback)

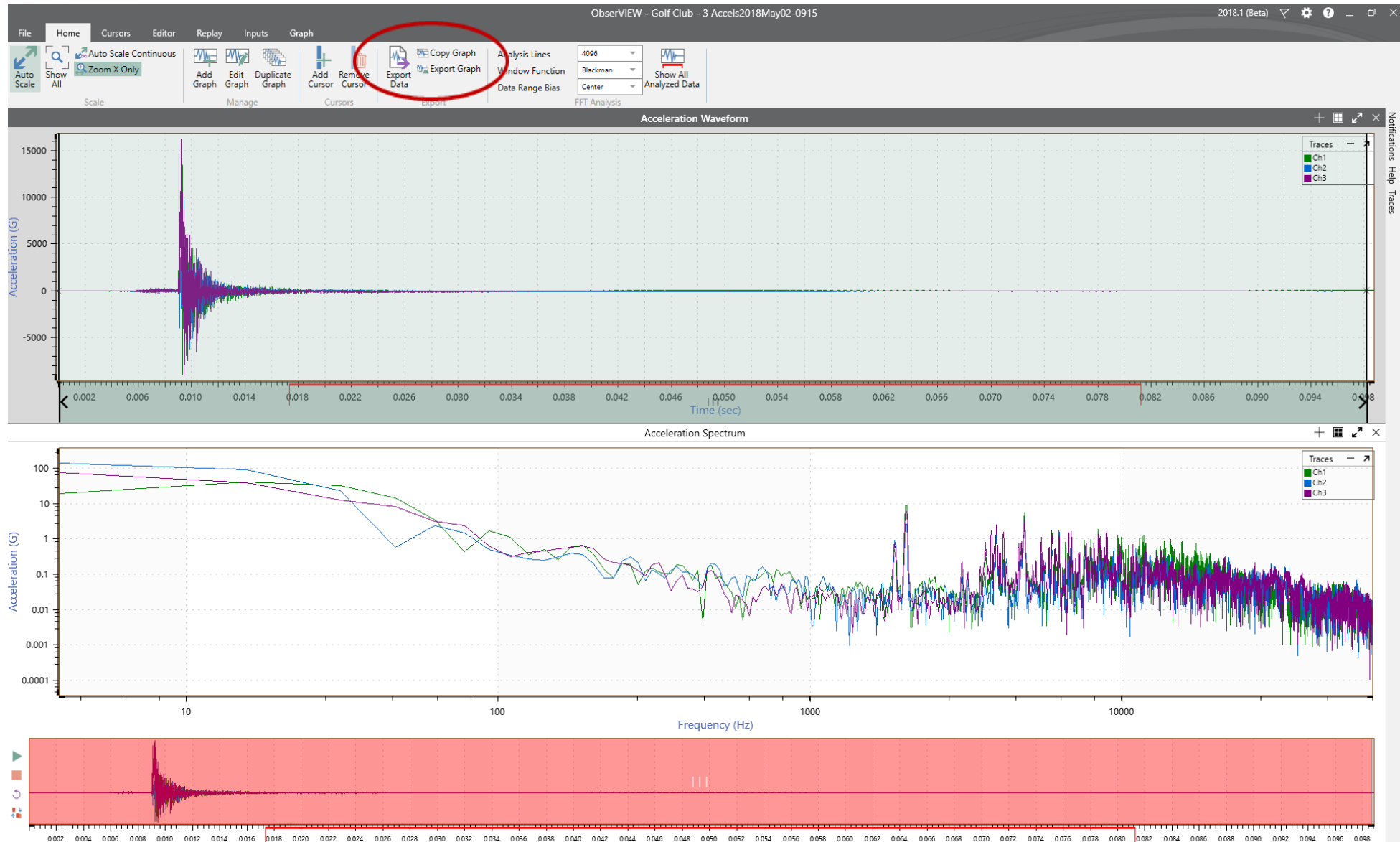
OK Cancel Help





ObserVIEW

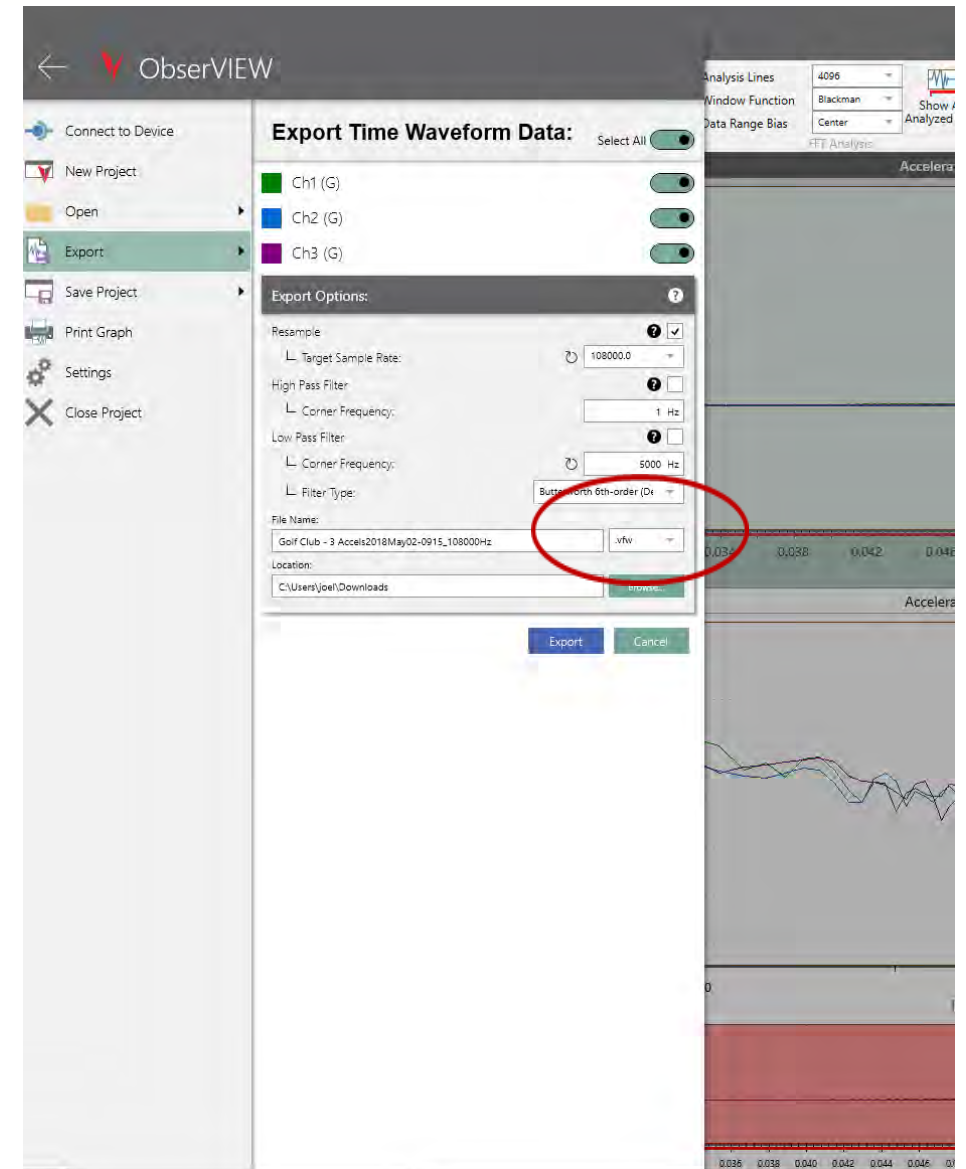






Export Time Waveform Data

- As .vfw
- As .mat
- As .csv
- As .txt





1. Importing Data
2. Selecting "Columns"
3. Exporting Data

Any Questions?



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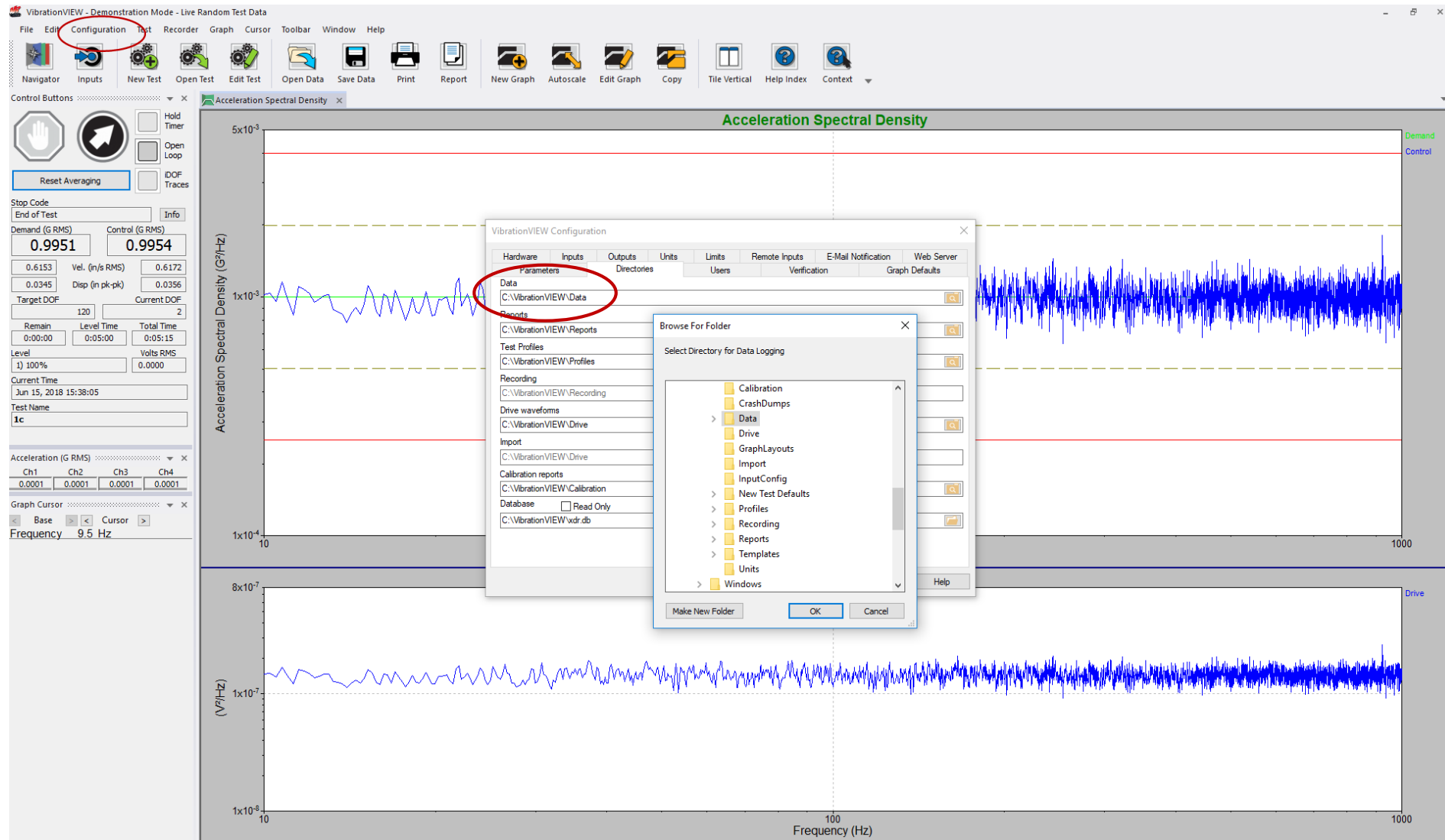
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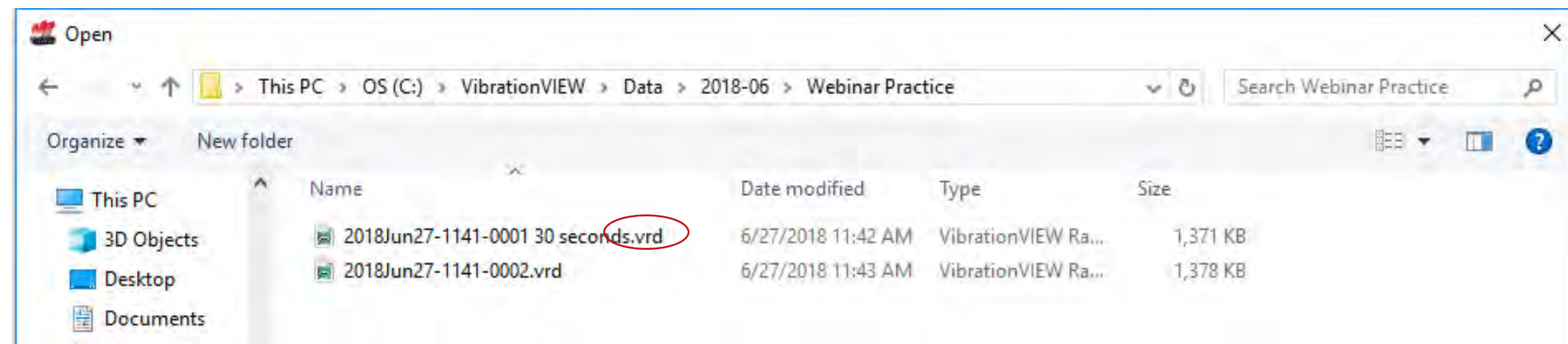
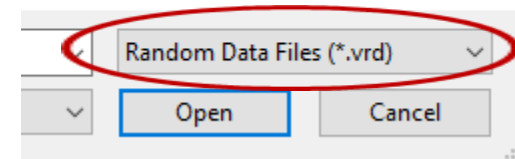
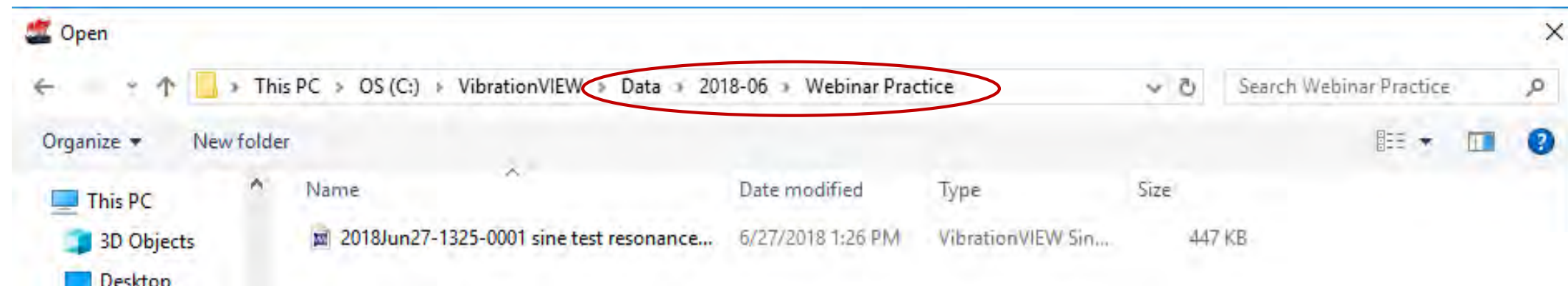
Saving Data Overview

- Global Defaults/Directories
- Data File Extensions
- Manual Save
- Auto Save
- Opening Data

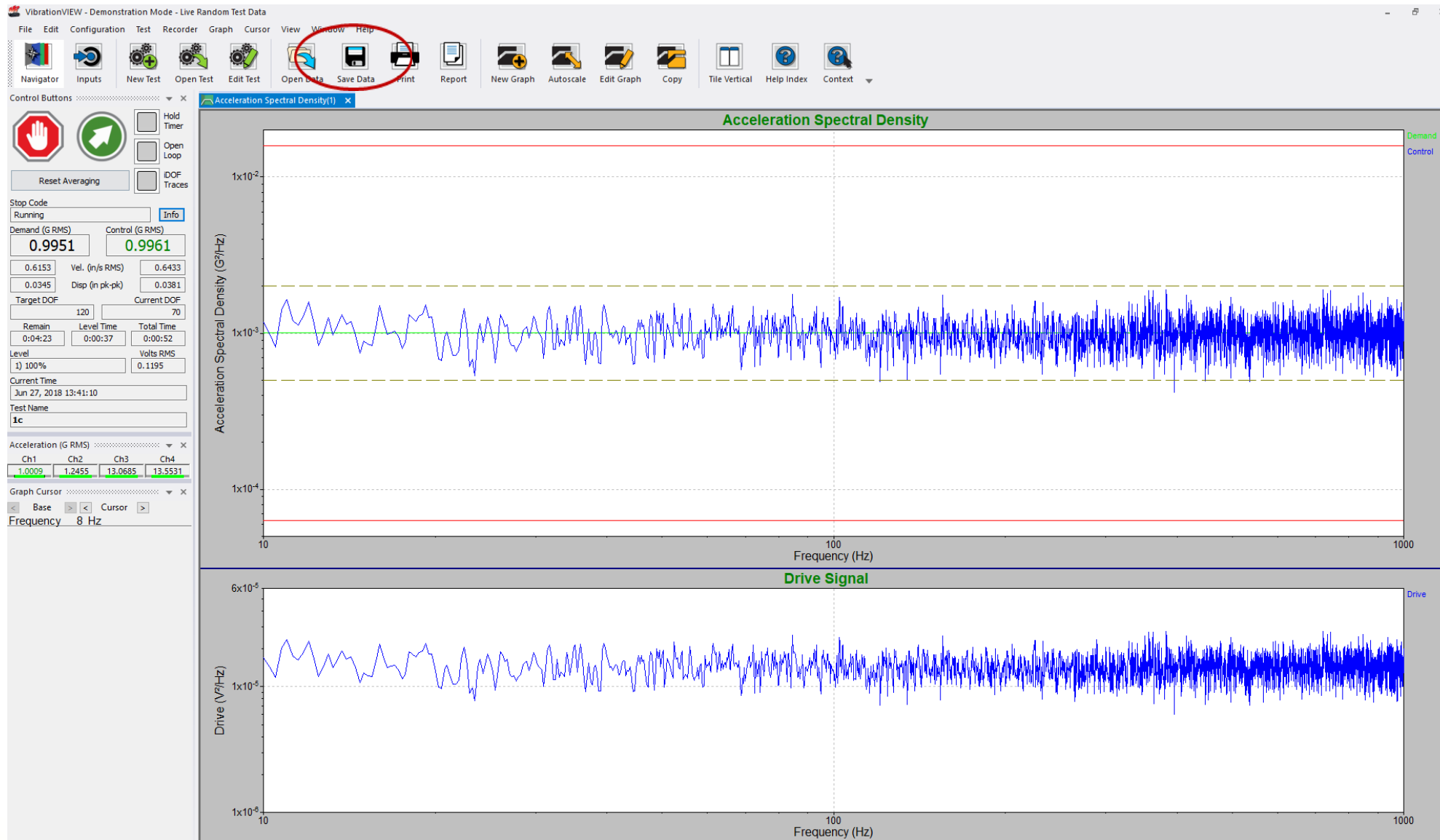
Global Defaults and Directories



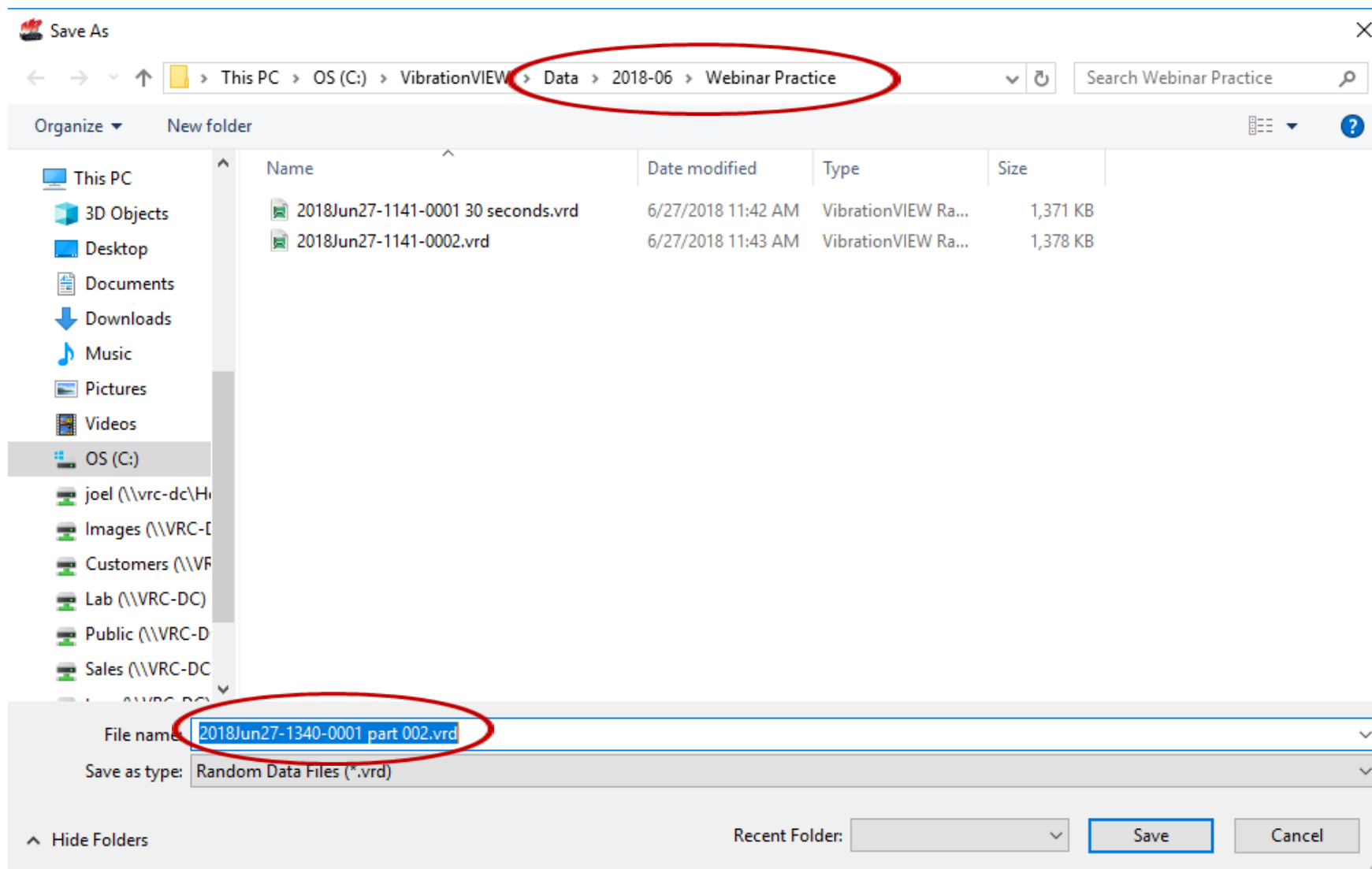
Data File Extensions



Manual Save



Manual Save



Auto Save

Random Test Settings - 1c

Acceleration

Acceleration Spectral Density (G^2/Hz)

Frequency (Hz)

Notch Import FDS Combine

Table Schedule Parameters Limits Channels Data Tables Calc R-o-R S-o-R S-o-R Param

Data storage directory: C:\VibrationVIEW\Data\2018-06

Data file name: 2018Jun15-1559-0001

Save reports in Data storage directory: ☐

Use Data file name for report: ☒

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	Graph annotation lines (shown in data bottom and in reports)
Note 1	
Note 2	
Note 3	

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

Save OK Cancel Apply Help

Random Test Settings - 1c

Acceleration

Acceleration Spectral Density (G^2/Hz)

Frequency (Hz)

Notch Import FDS Combine

Table Schedule Parameters Limits Channels Data Tables Calc R-o-R S-o-R S-o-R Param

Data storage directory: C:\VibrationVIEW\Data\2018-06

Data file name: 2018Jun15-1559-0001

Save reports in Data storage directory: ☐

Use Data file name for report: ☒

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: ☐

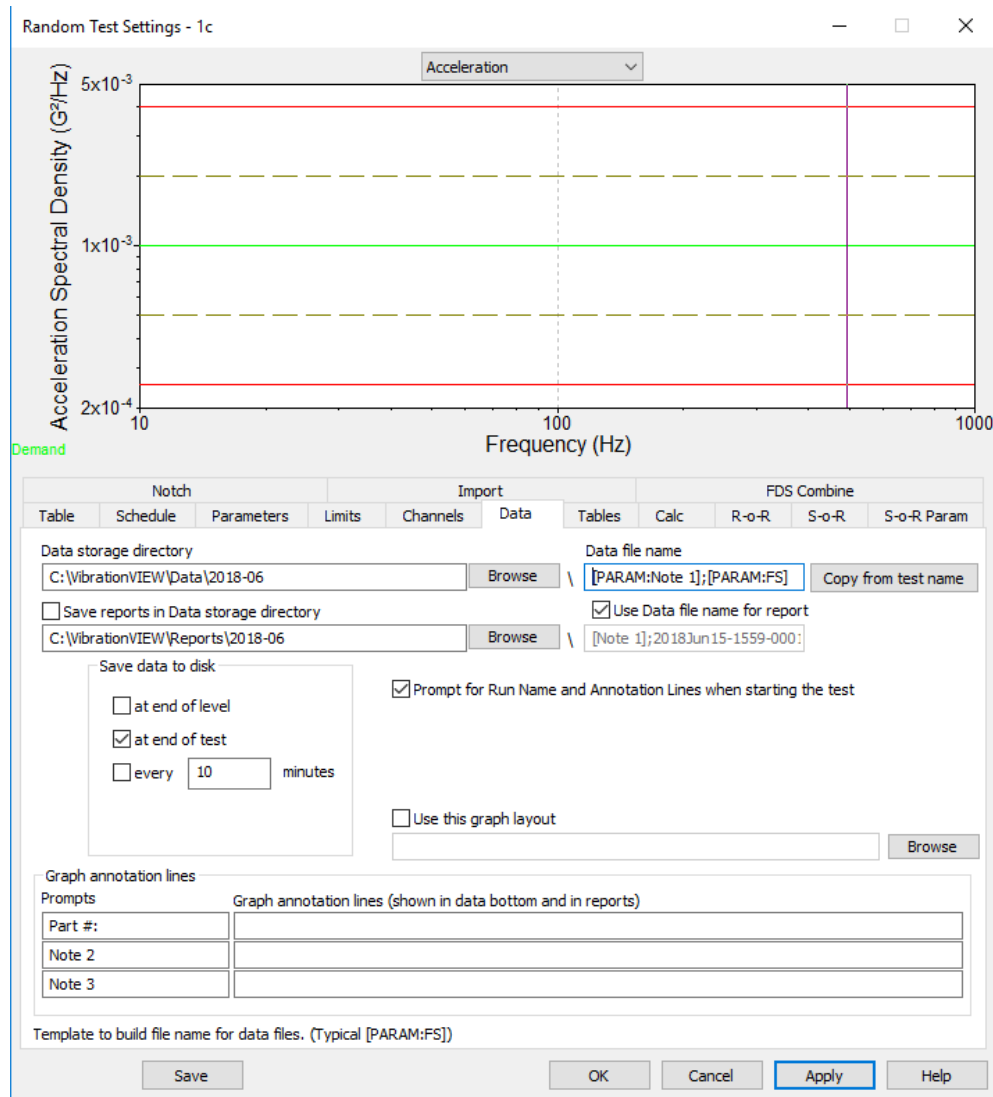
Graph annotation lines:

Prompts	Graph annotation lines (shown in data bottom and in reports)
Part #:	
Note 2	
Note 3	

Annotation lines shown in data bottom graphs: ☐

Save OK Cancel Apply Help

Auto Save and Prompts



Run Name

Enter a Run Name for this

Webinar Practice

A subdirectory of the base data directory will be created using this Run Name.
All stored data for this run will be stored there.

Graph annotation lines:

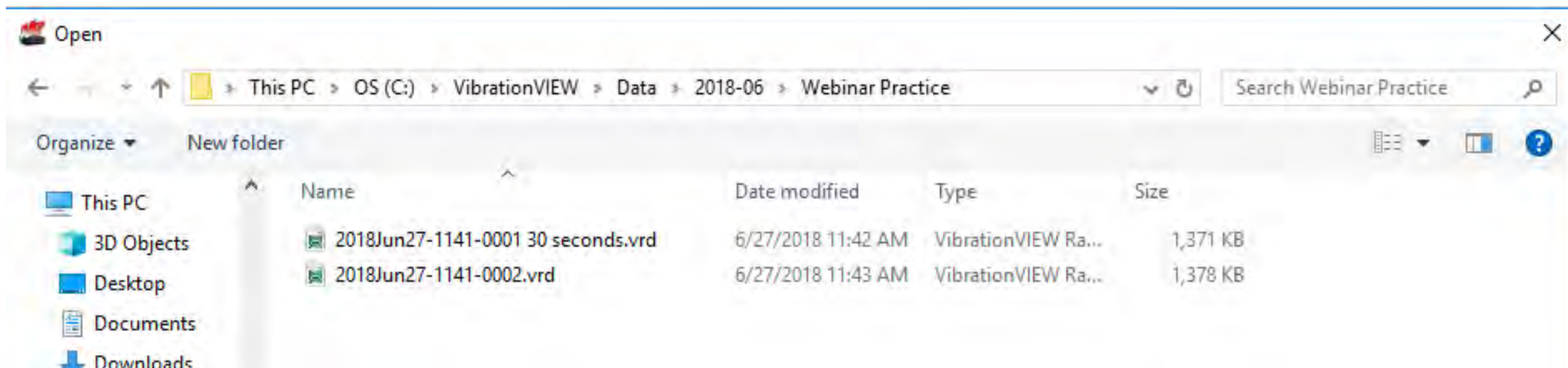
Part #: 001

Note 2

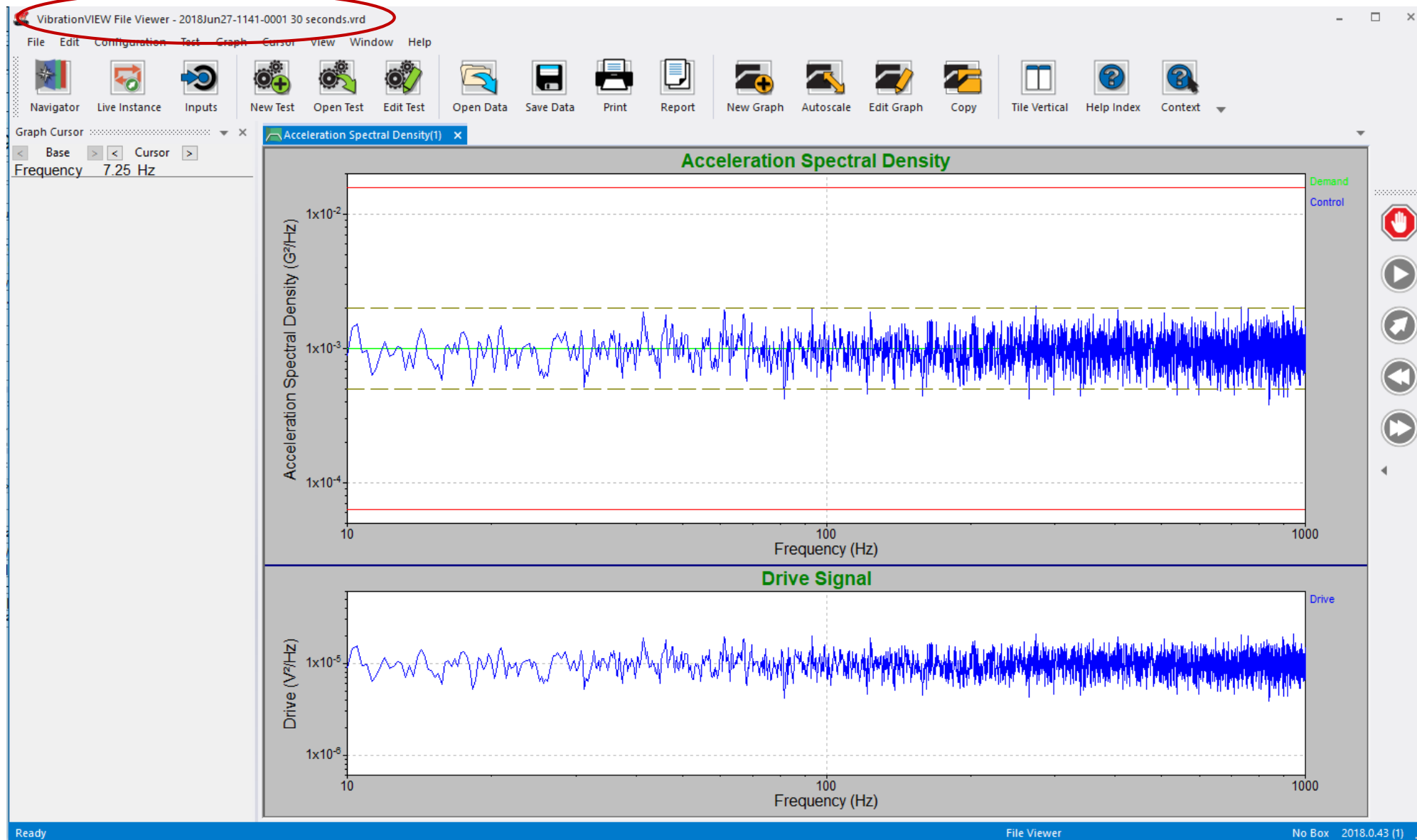
Note 3

OK Cancel

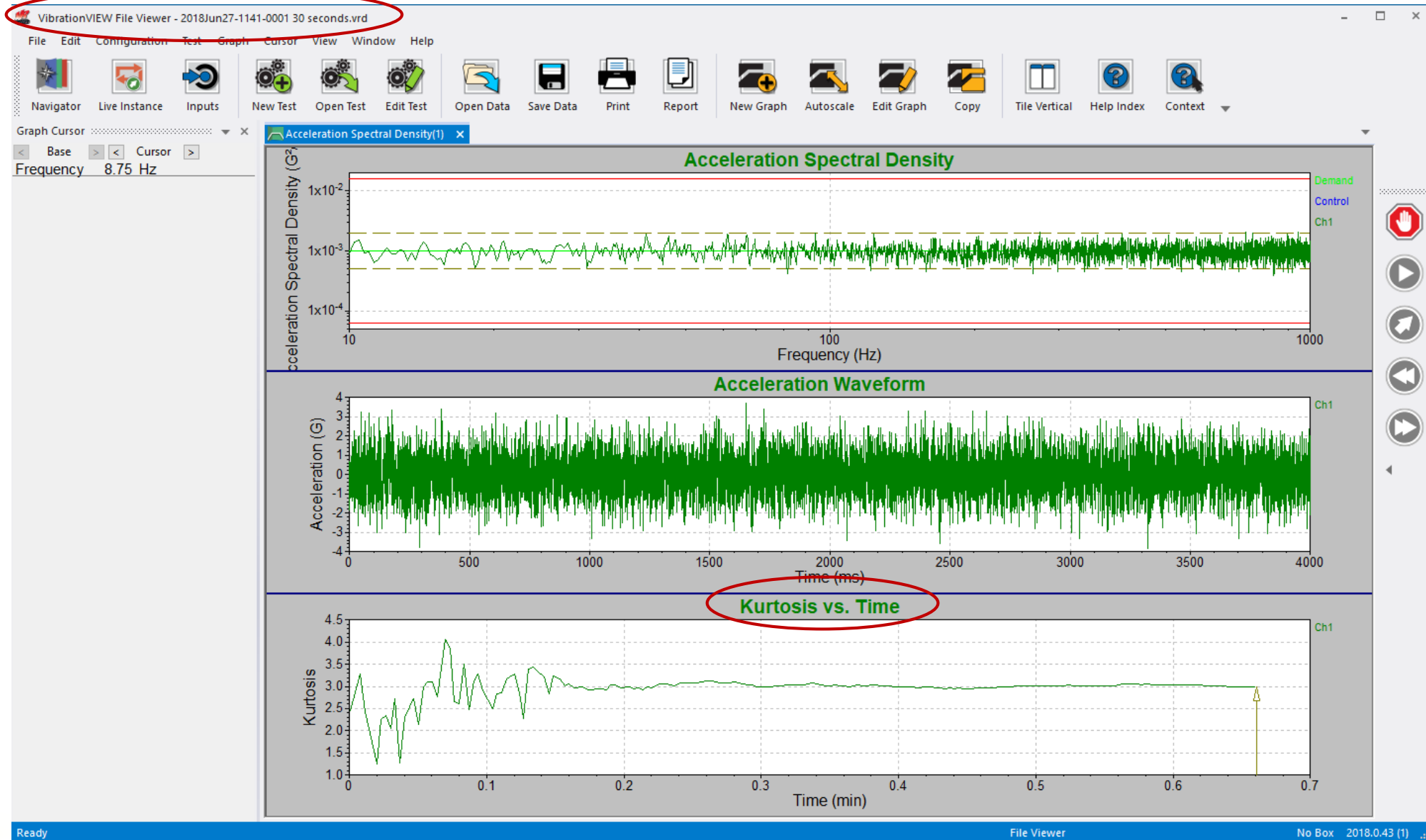
Data Storage Folder



Opening Data



Opening Data



Saving Data

- Global Defaults/Directories
- Data File Extensions
- Manual Save
- Auto Save
- Opening Data

Any Questions?

