

Product Group: Microlog Product: CMXA44, CMXA45, CMXA48, CMXA70, CMXA75, CMXA80 Version: N/A

Abstract

This document describes the procedure for creating non-animated mode shapes from FRF data imported into SKF Analysis and Reporting Module (ARM) software.

Overview

The procedure below is based on the first measurement point being named **1"X"** (where "X" denotes the direction of freedom).

 Import the FRF data from the Microlog using Mobile Device Viewer (File > Mobile Device Viewer). Ensure FRF files are selected as the source (Internal memory and SD card). [Figure 1]













2. Highlight all the files for import, then select **Next >>**. [Figure 2]

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Figure 2	. Selecting files for import



3. All of the selected files will be transferred to the ARM view window. [Figure 3]



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4. Select trace **1"X"** and drag the **FRF Imag** spectrum onto a clear space of the data file window to create a new data file. [Figure 4]



Figure 4. FRF Imag

5. Copy all of the other FRF Imag spectra from the individual files into the FRF Image from 1"X" to create a group of spectra. [Figure 5]



Figure 5. Creating a group of spectra



6. Select the second level of the group to select and view all traces.



Waterfall to change the plot type to a waterfall view. [Figure 7]



Figure 7. Waterfall graph

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8. Select **Graph > Y axis > Scale > Imaginary** to revert the plot to imaginary data. [Figure 8]



Figure 8. Imaginary data

9. Move the cursor over the frequency of interest, then right-click and select **Waterfall slice**. [Figure 9]





10. A new data window will display the mode shape of the selected frequency.

Note: This procedure will not show any torsional mode shapes, as these can only be shown in MEScope.

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at <u>TSG-Americas@skf.com</u>.

