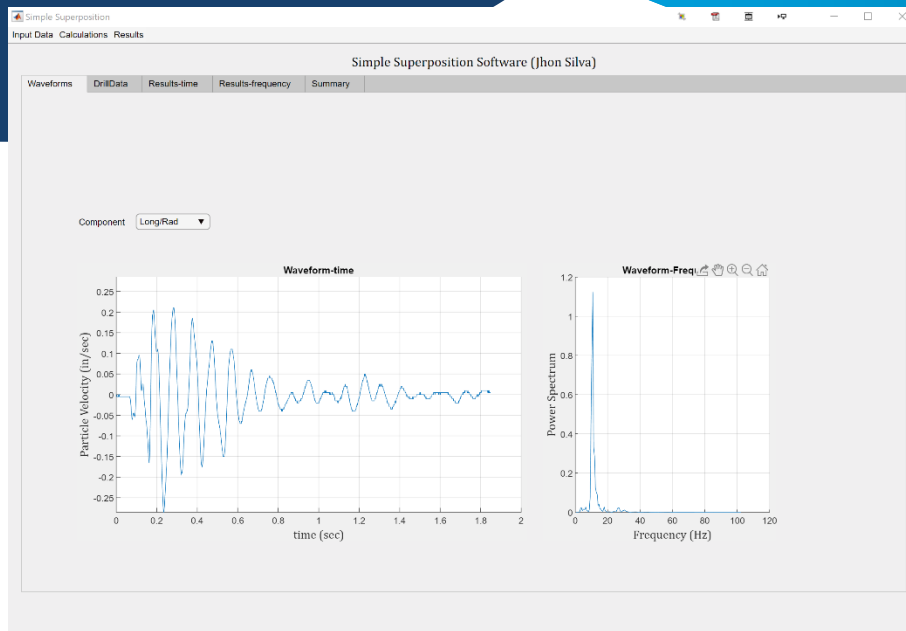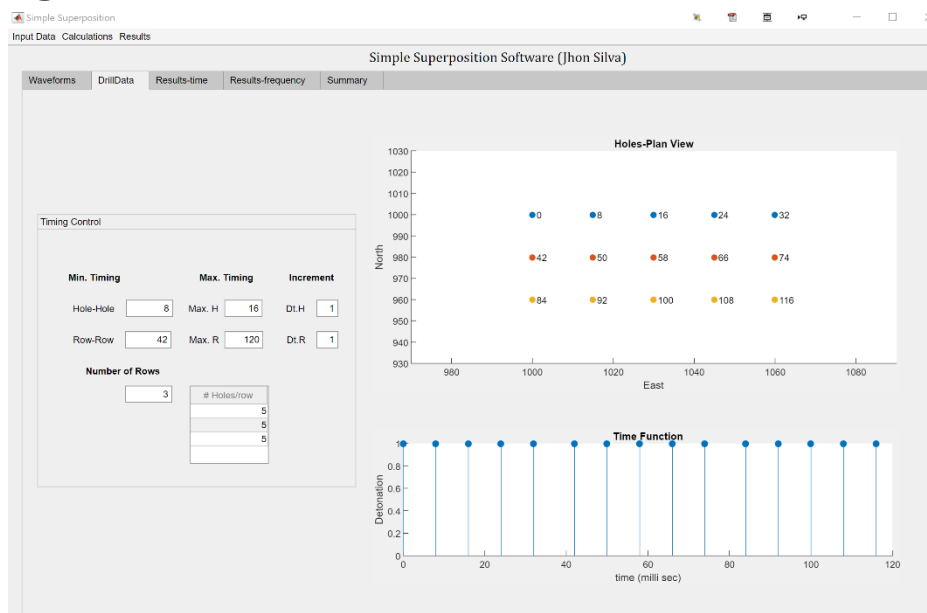# VibraBlast-L

VibraBlast-L is a linear superposition waveform analysis software. The software uses a traditional waveform superposition technique (Signature Hole Analysis) to find the timing between explosives charges in a production shot to minimize the ground vibrations. The software is written in Matlab® with an intuitive and friendly interface for easy operation. Parallel processing has been implemented in the algorithms to reduce the computational timing of the analyses. The signature signals (three components) are input using an excel format.
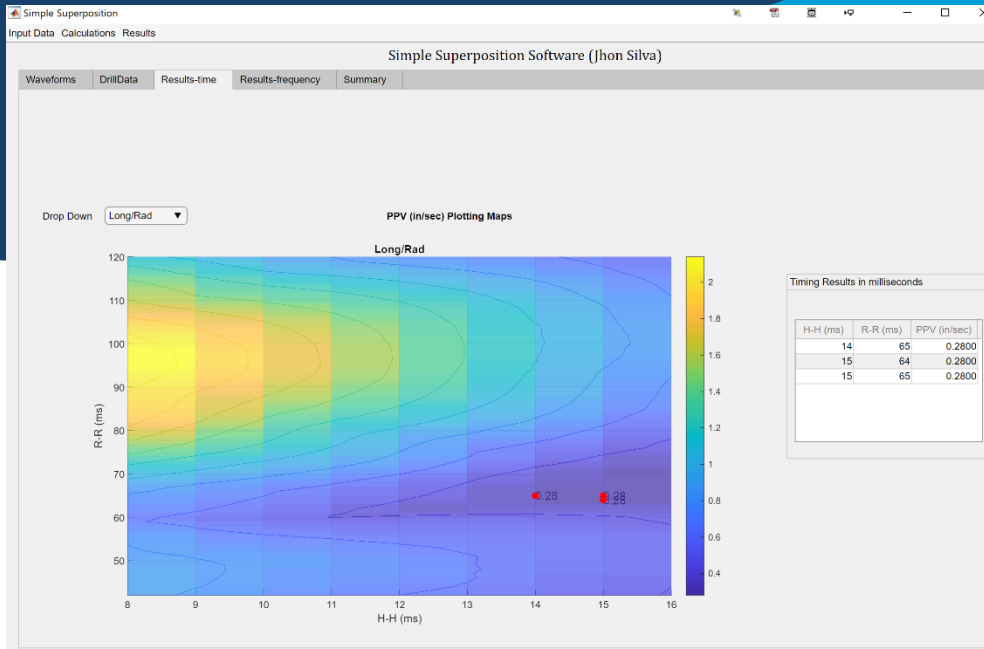

Input signal results in VibraBlast-L

The blast layout for a traditional Hole-to-Hole and Row-to-Row timing and pattern is made through a single window.


Timing and pattern in VibraBlast-L

A more advanced module to include decks and any time and pattern configuration is under development and implementation.

The results are presented using iso-vibration contours, generating vibration surfaces with the location of the recommended timing for each component. The vibration vector sum is included in the analysis.
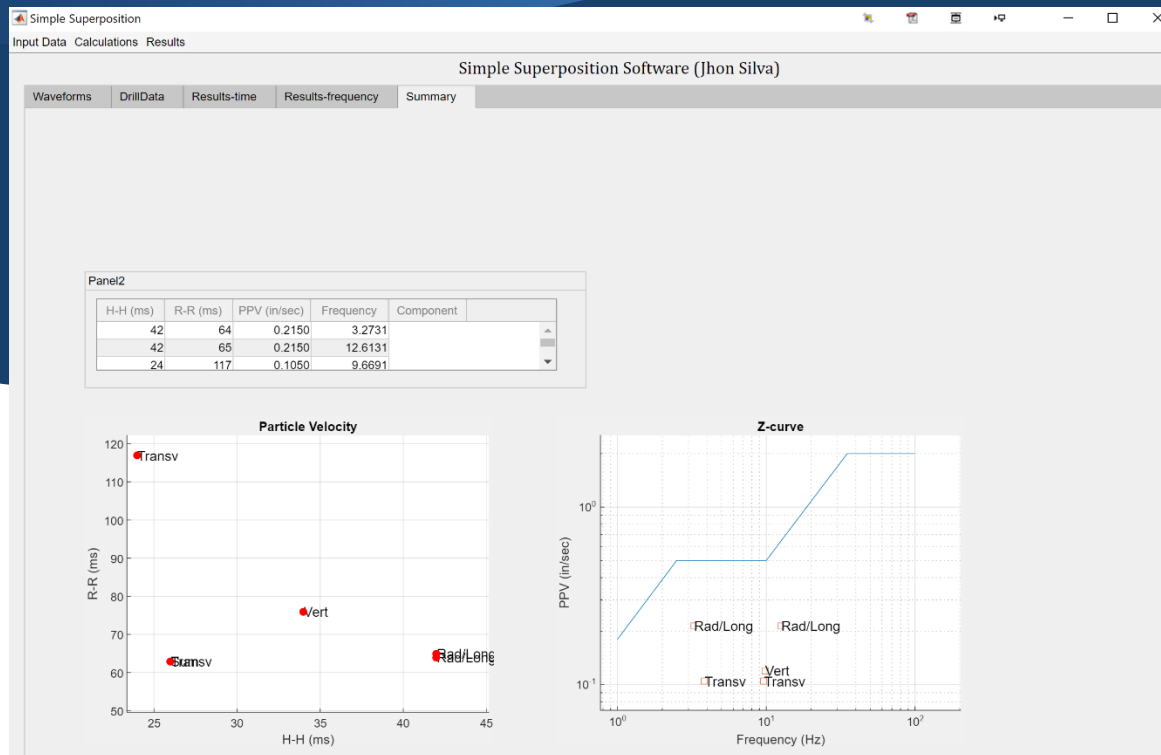

Recommended timing in VibraBlast-L

The assessment of the frequency for each component for the recommended timing is also reported in the software.
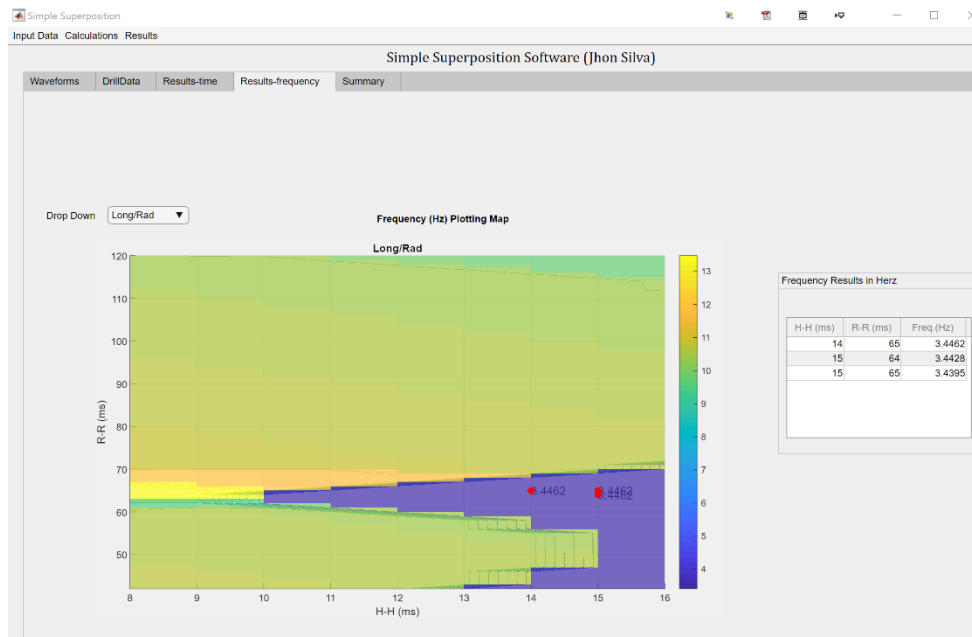
Frequency results in VibraBlast-L

A summary window shows the summary of results for each component and the traditional PPV calculations in the Z-curve

Summary results in VibraBlast-L

The software has been developed by Dr. Jhon Silva and can be adapted to your specific needs.

For additional information, please contact:

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