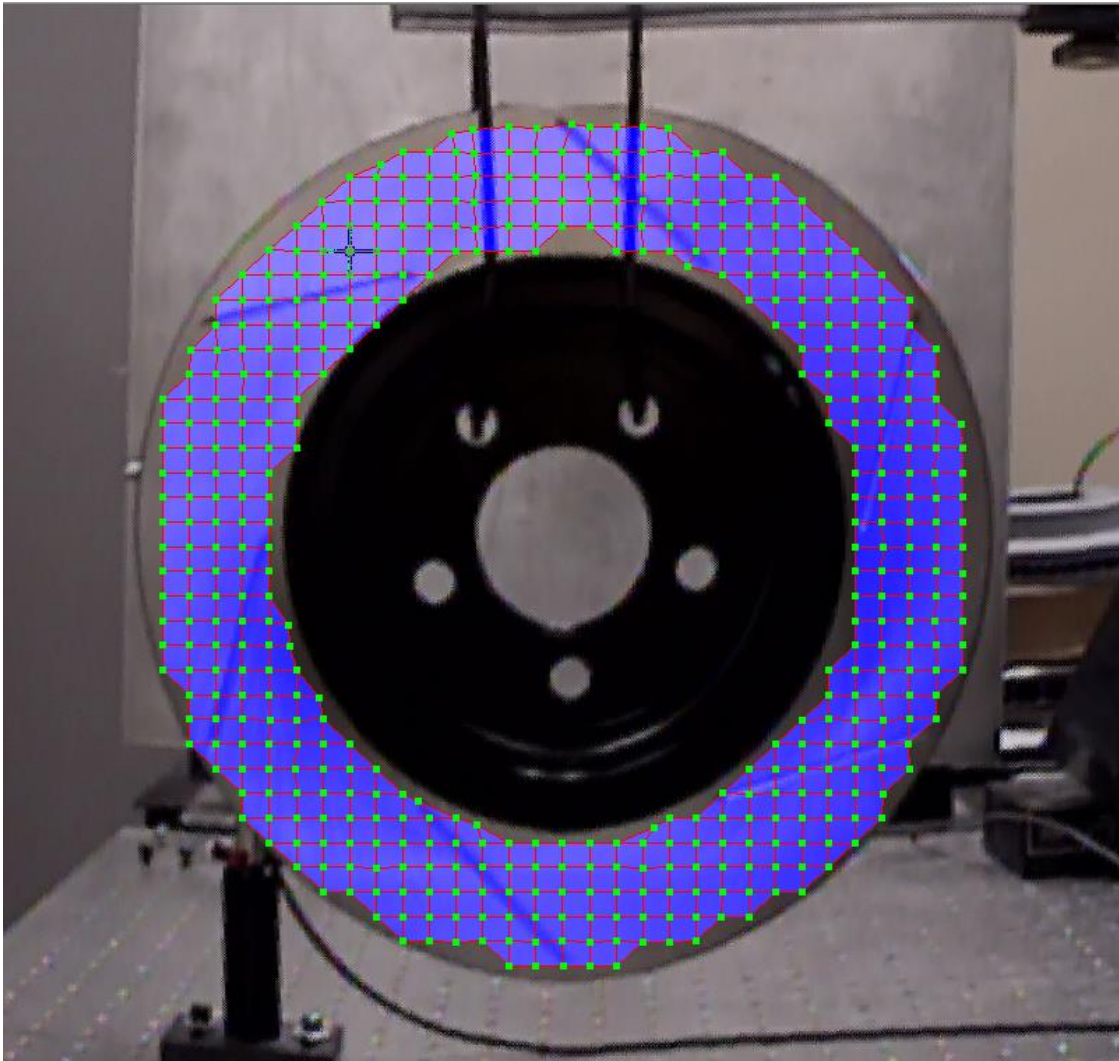


LS01 Example – Brake Rotors



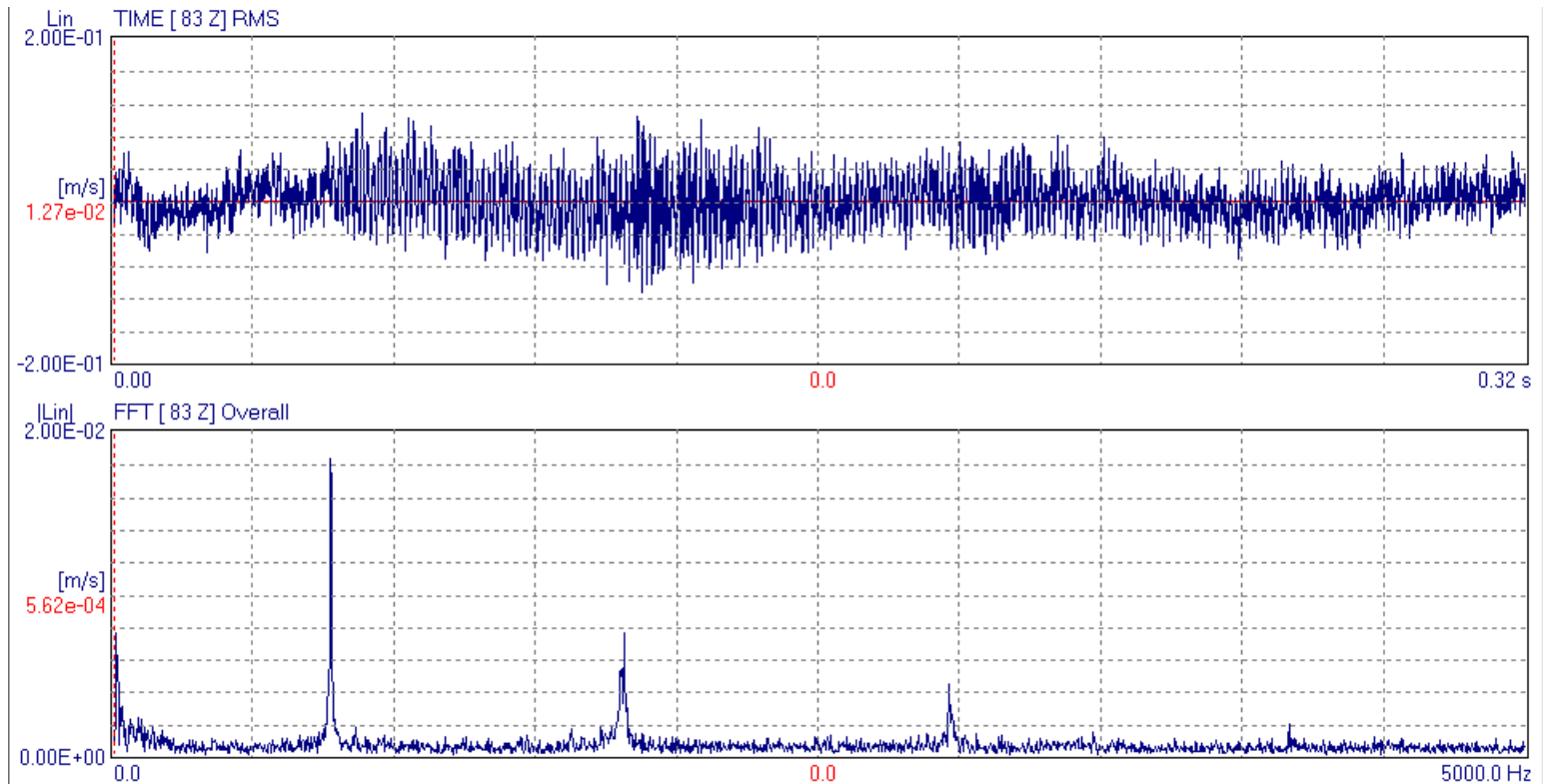
Brake Rotor with 500
measurement points

Center Area is Excluded
from the measurement

Chirped Frequency
Excitation from the
back with a PZT

LS01 – Brake Rotor Data

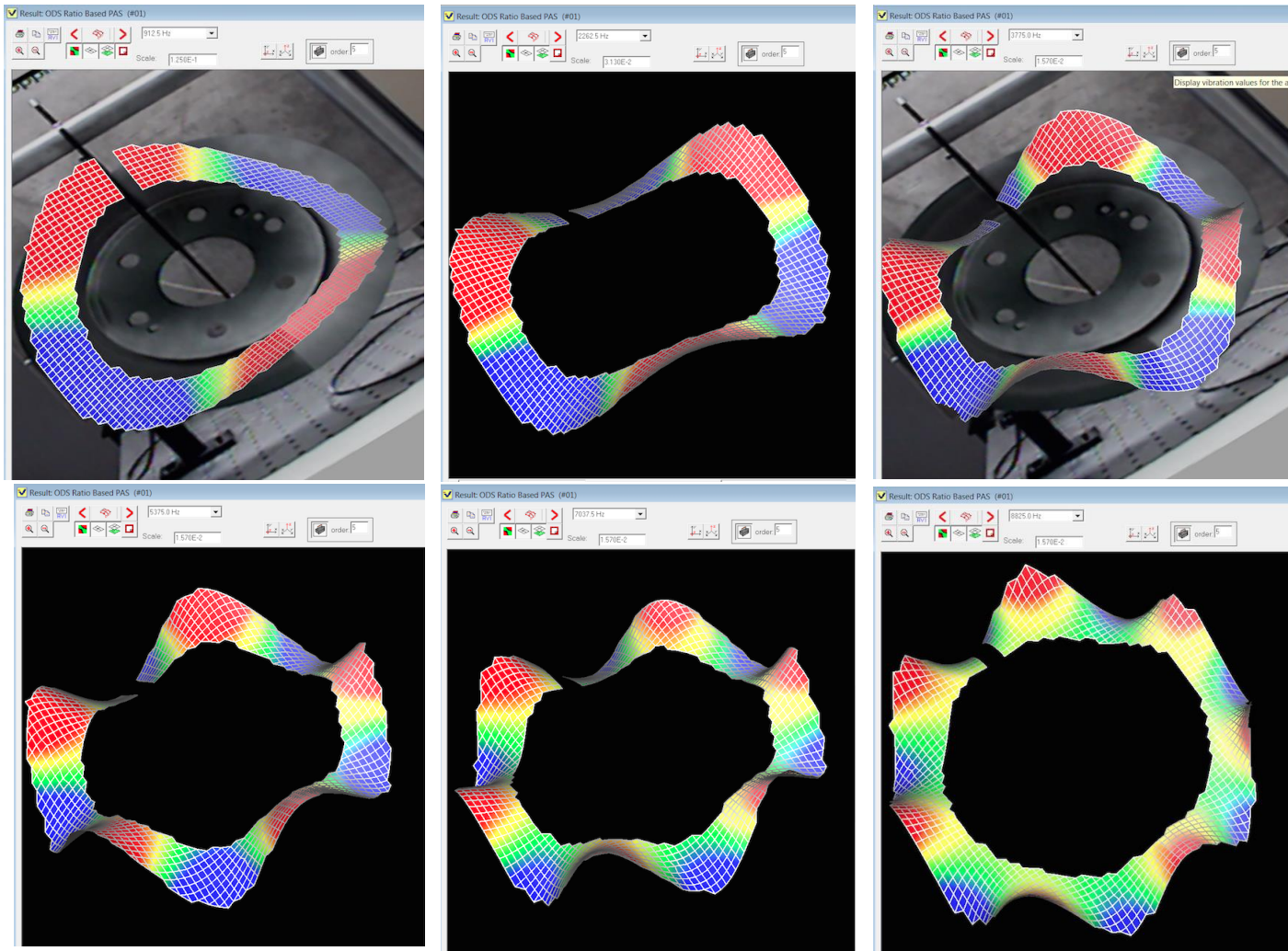
Obtain Time Domain and FFT Data at each measurement point



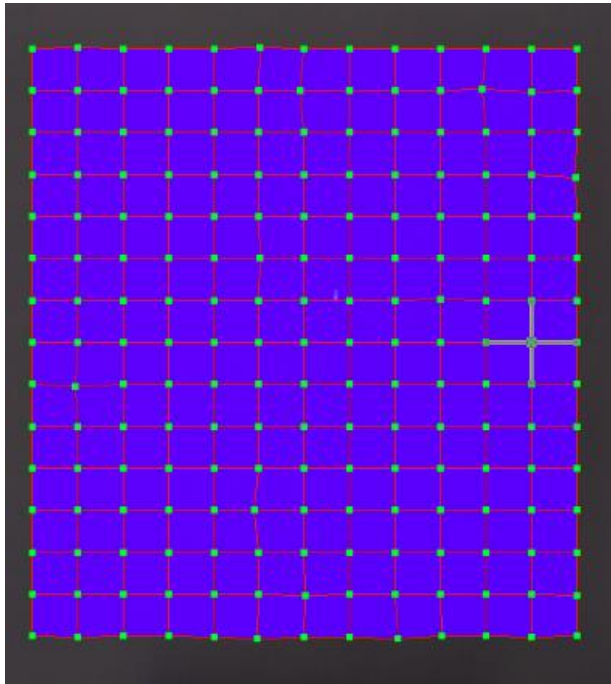
LS01 – Brake Rotor Animations



View 3-D Animations at any frequency



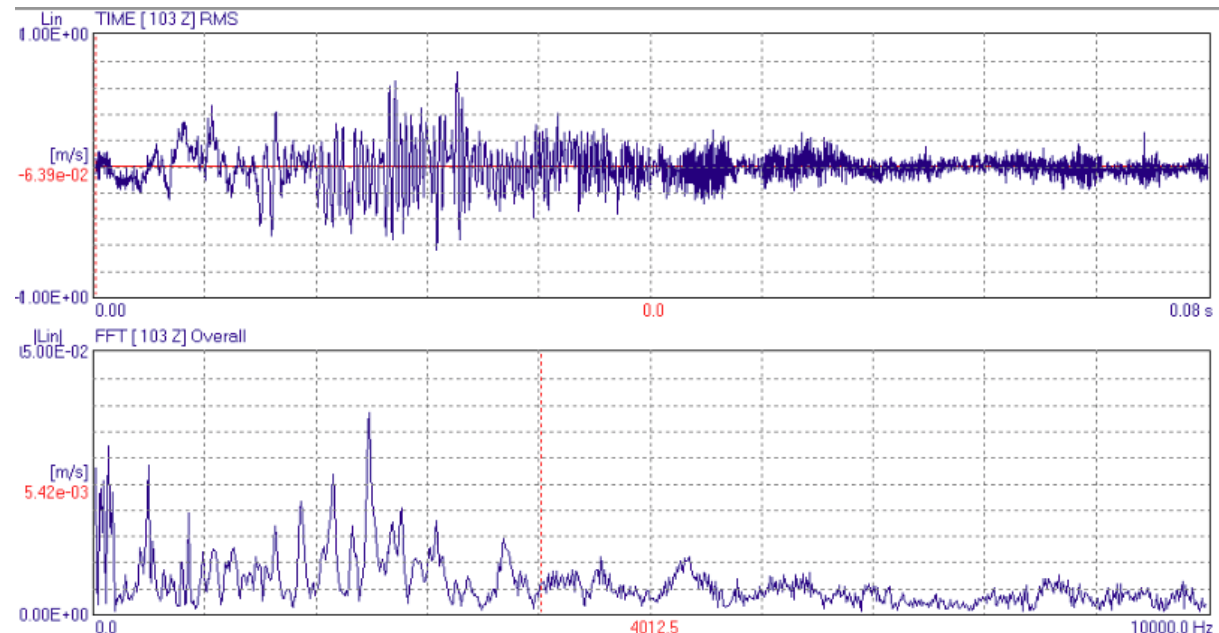
LS01 Example – Flat Speaker



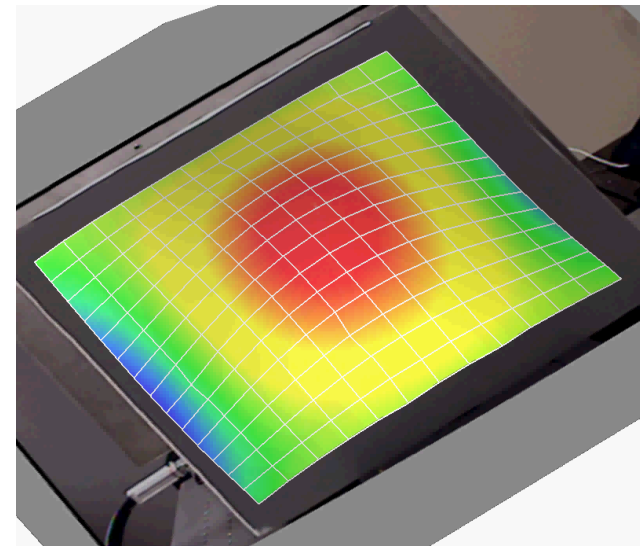
Flat Panel Speaker with over 150 measurement points

Drive Speaker with signals from 0 – 10 kHz

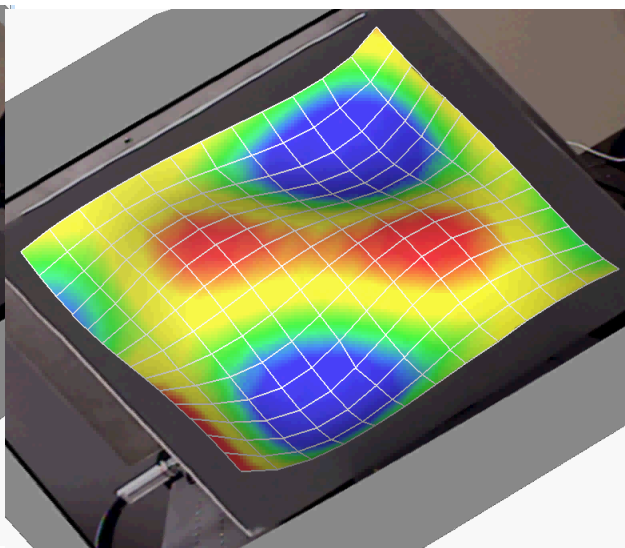
Several resonant frequencies can be seen



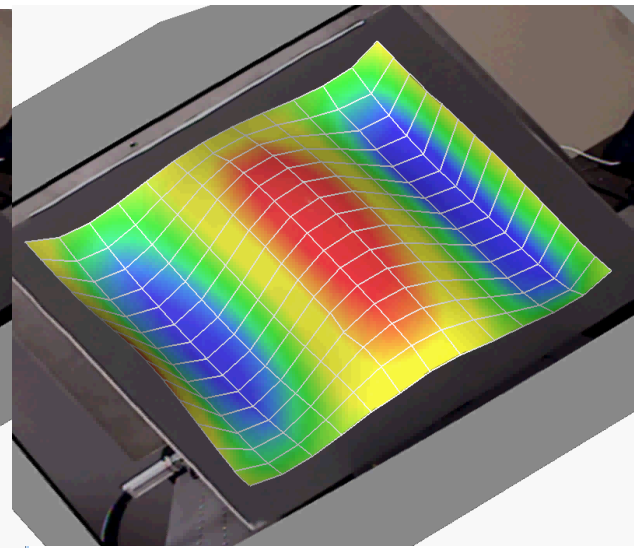
LS01 - Speaker Animations



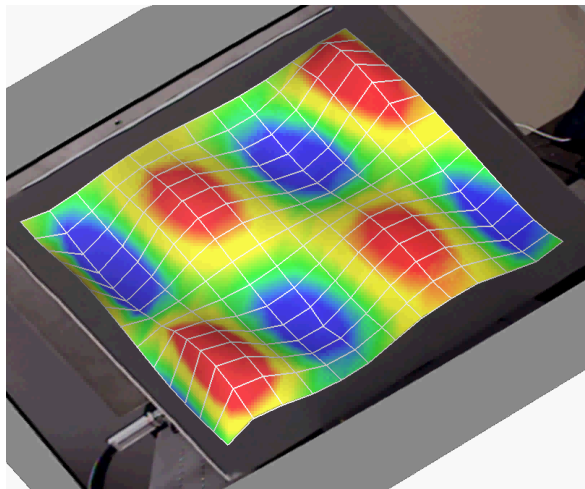
150 Hz



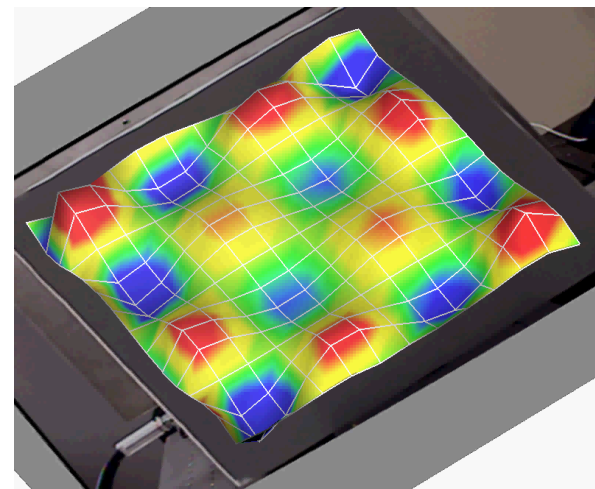
375 Hz



475 Hz

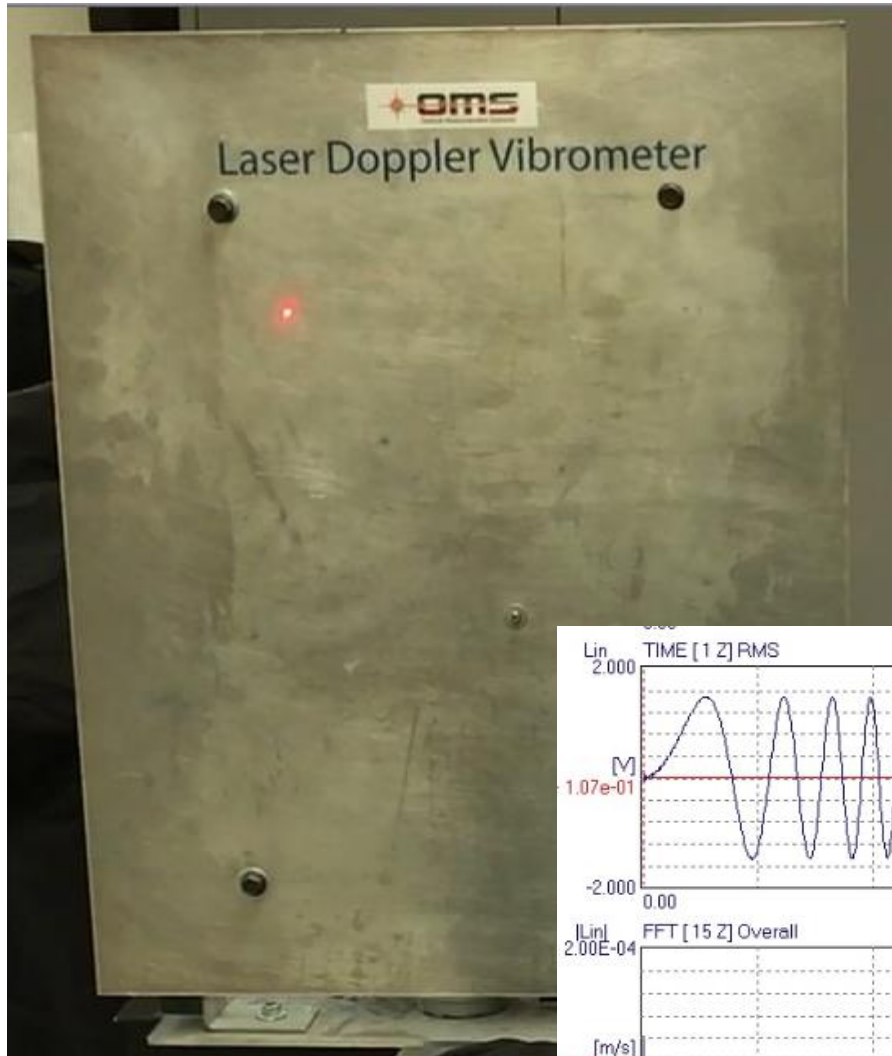


800 Hz



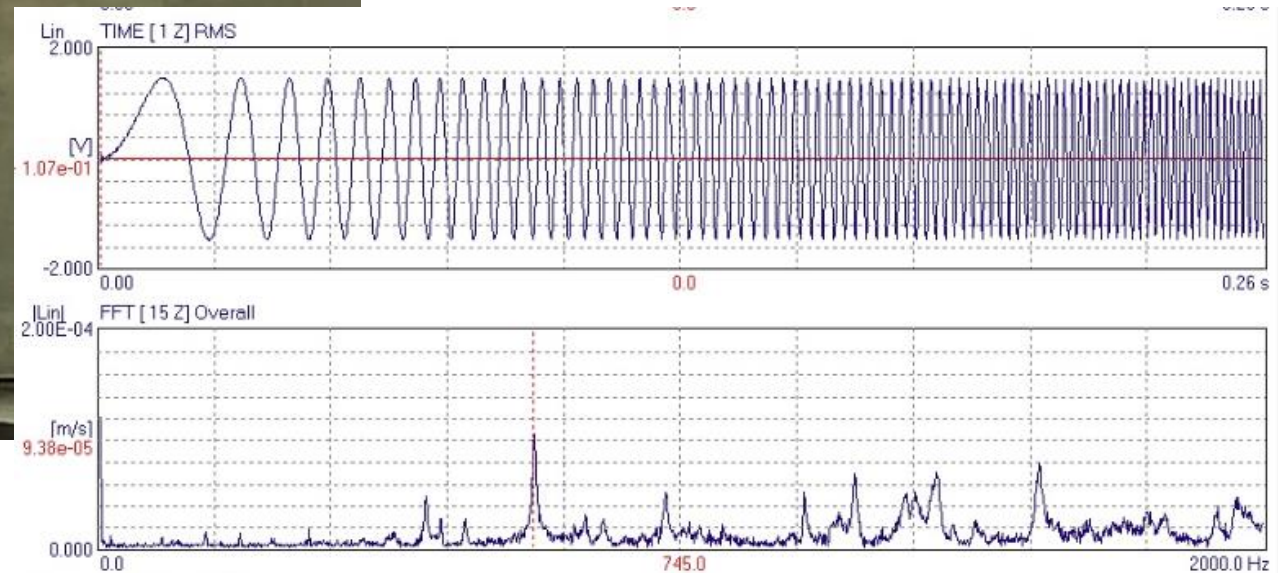
1200 Hz

LS01 Example – Aluminum Plate

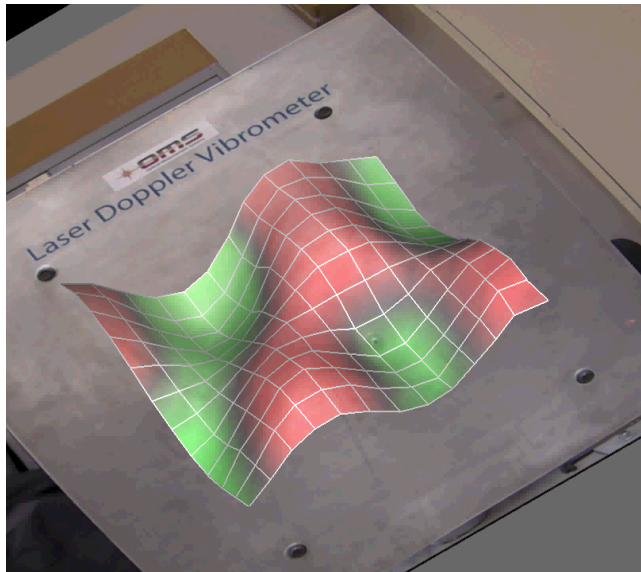


Excite Plate with a PZT, Driven with a Chirped Frequency Excitation

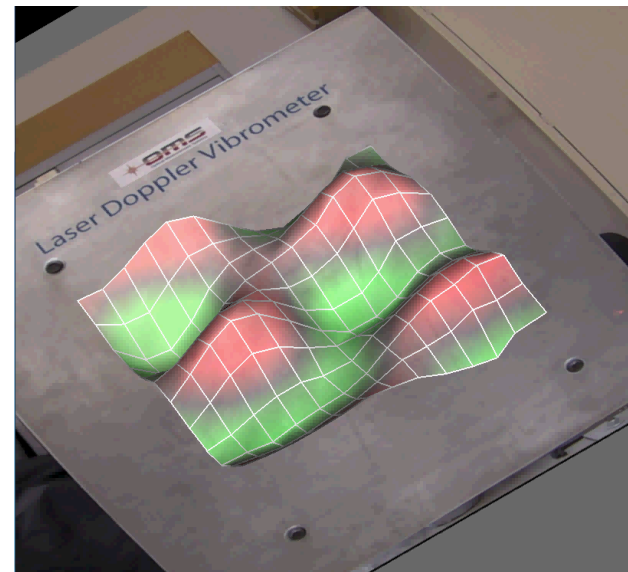
Observe Plate Resonances in FFT



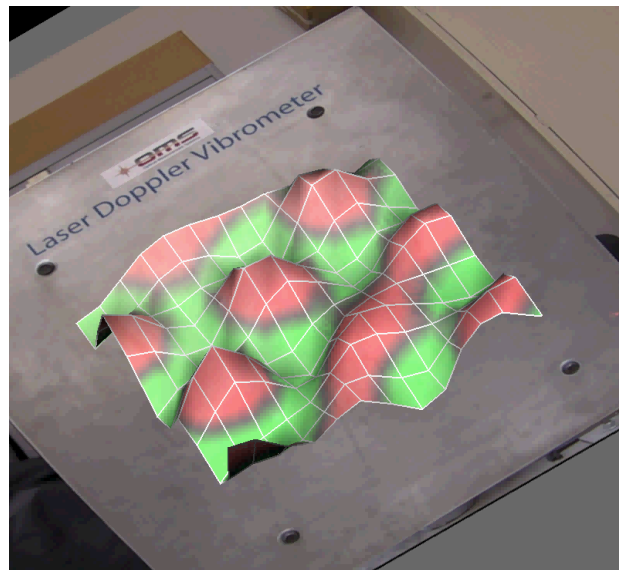
LS01 - Plate Animations



555 Hz

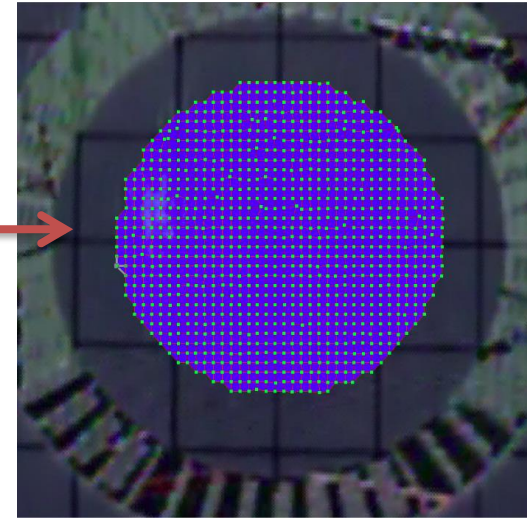
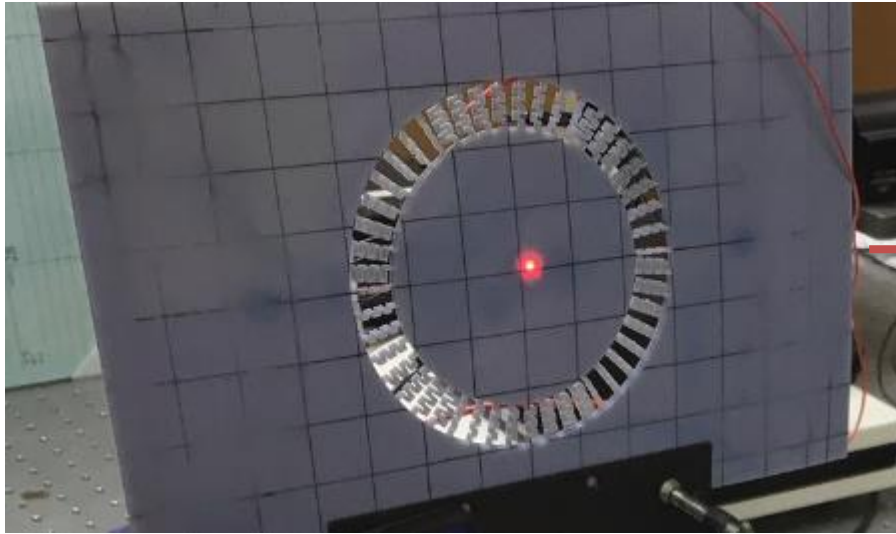


969 Hz

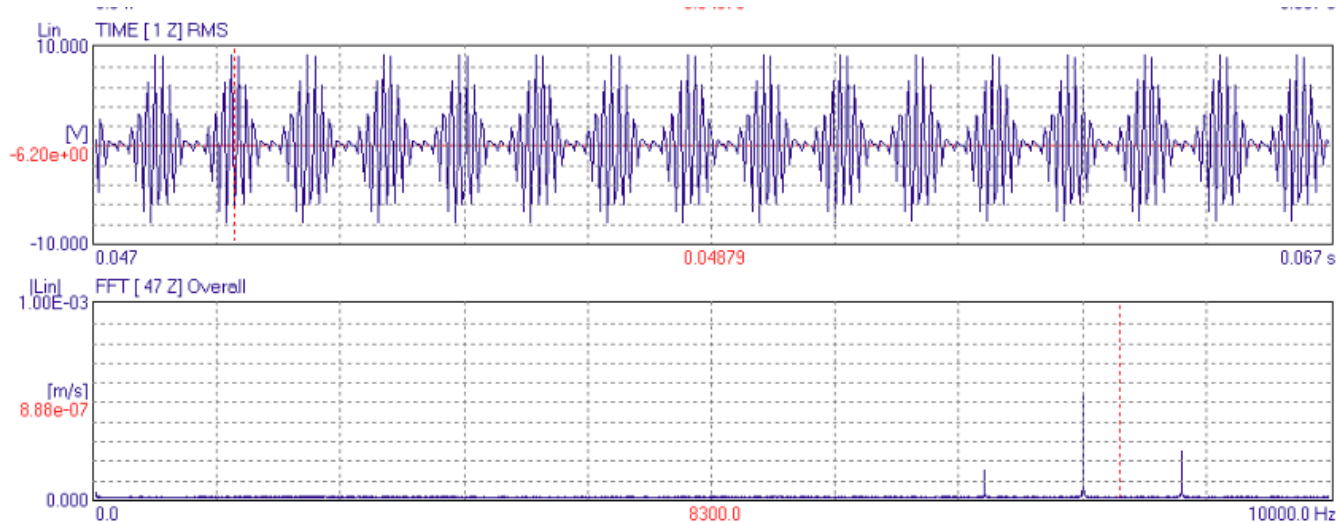


1844 Hz

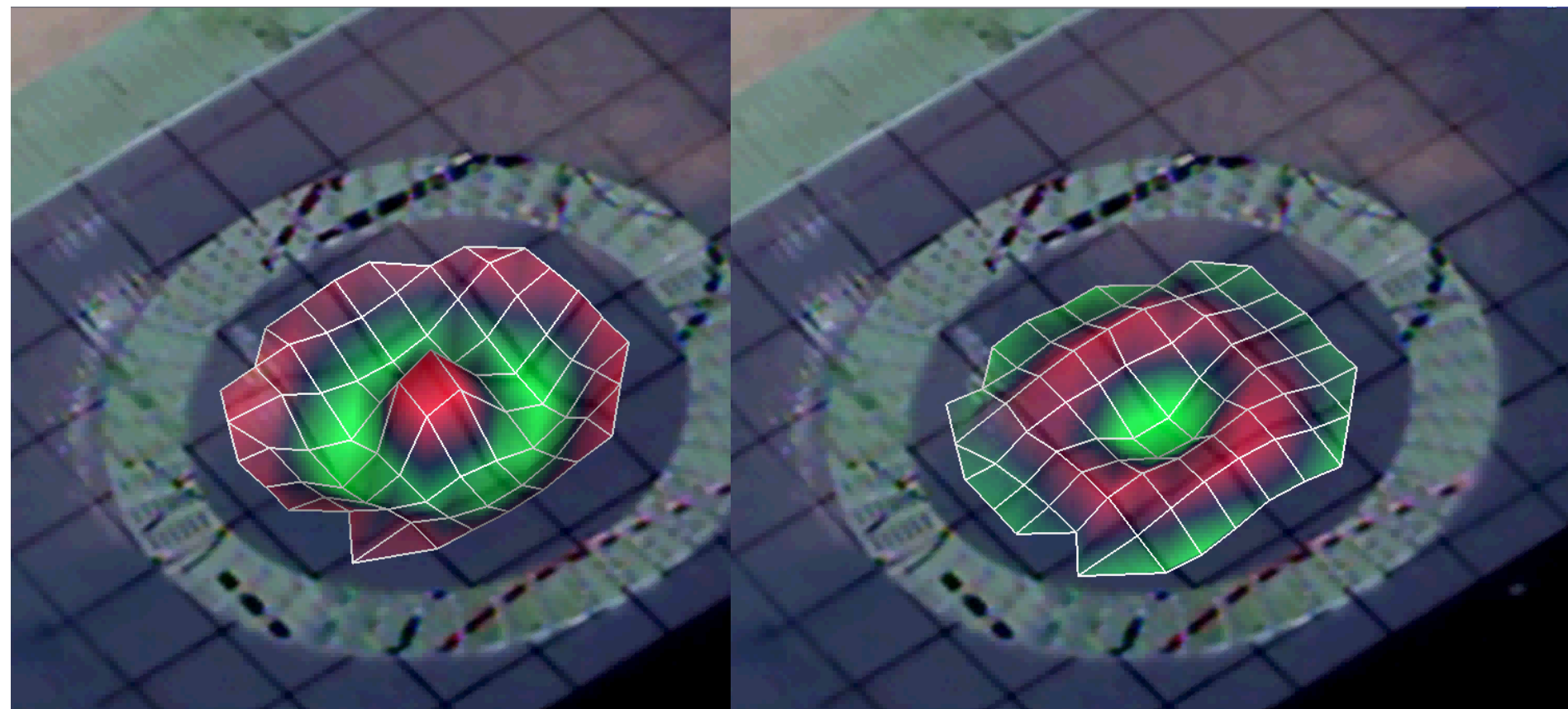
LS01 Example – Circuit Board



Measure hundreds of points
inside the center area

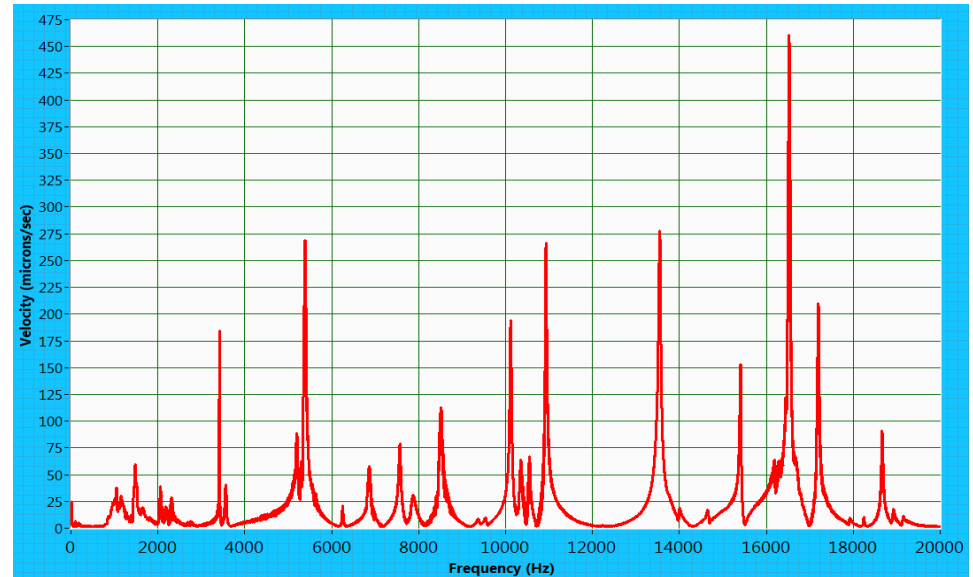
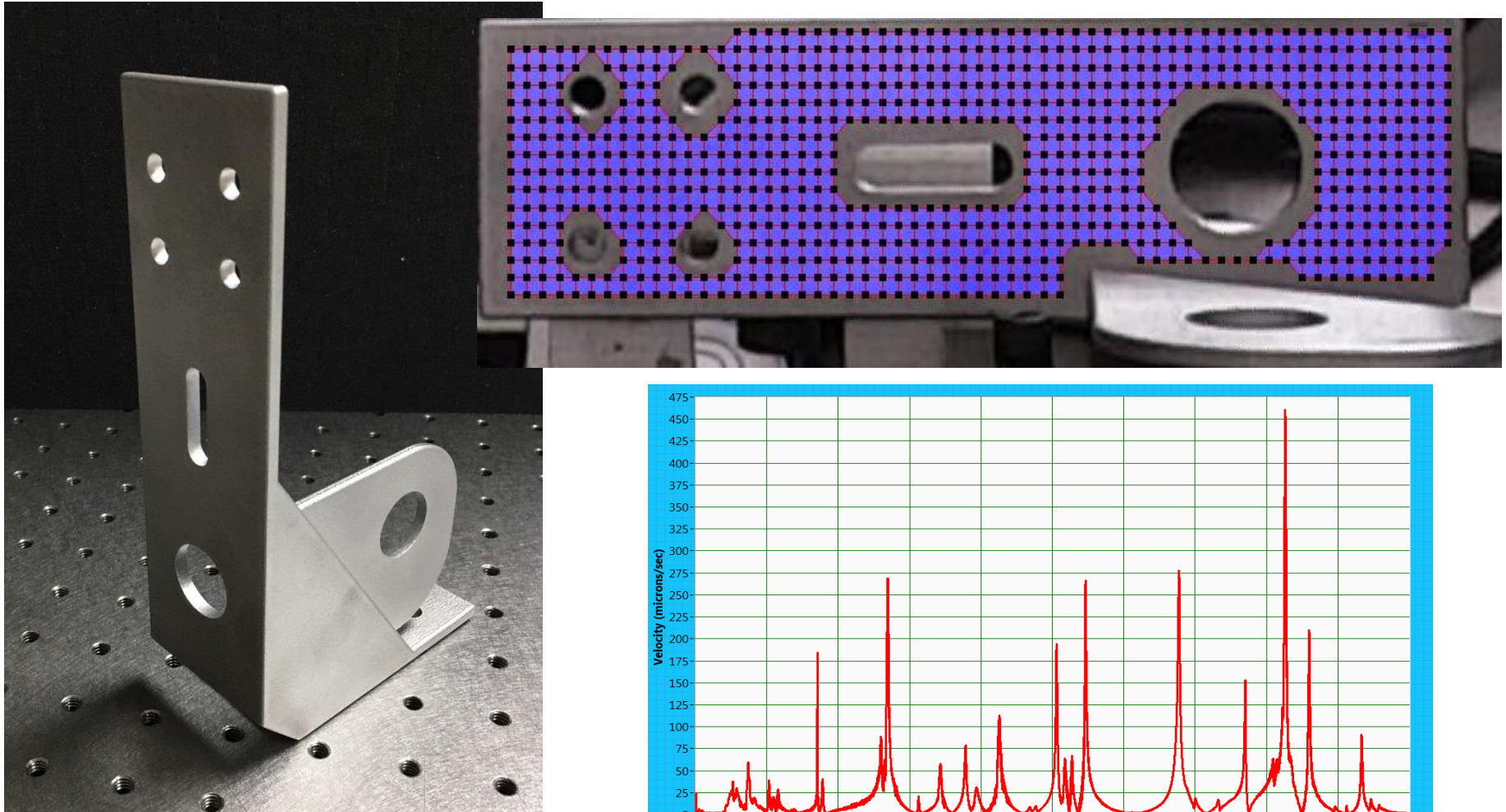


LS01 – Circuit Board Animations



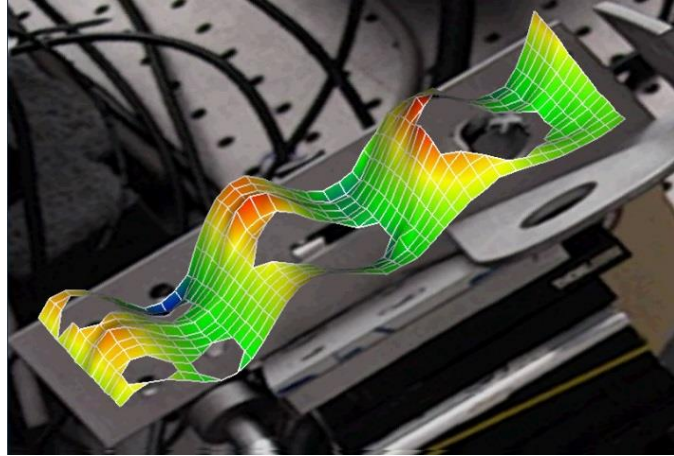
8000 Hz

LS01 Example – Bracket

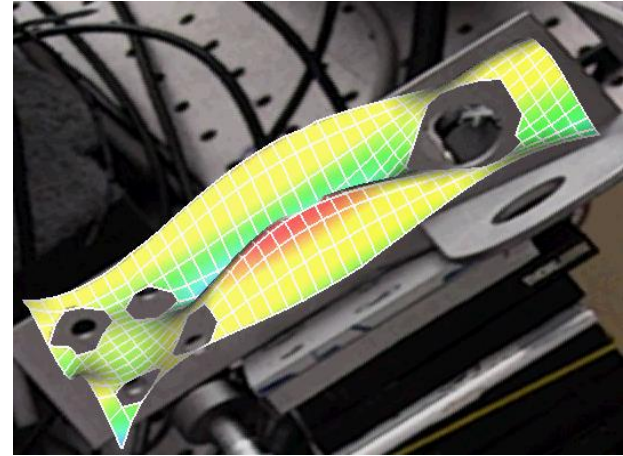


Vibration spectrum of the bracket

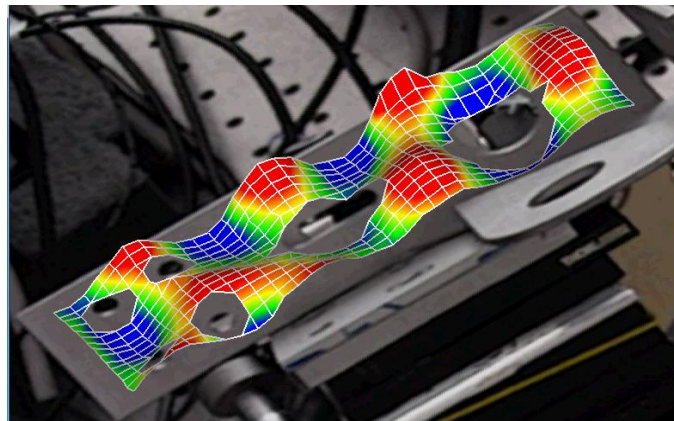
LS01 – Bracket Animations



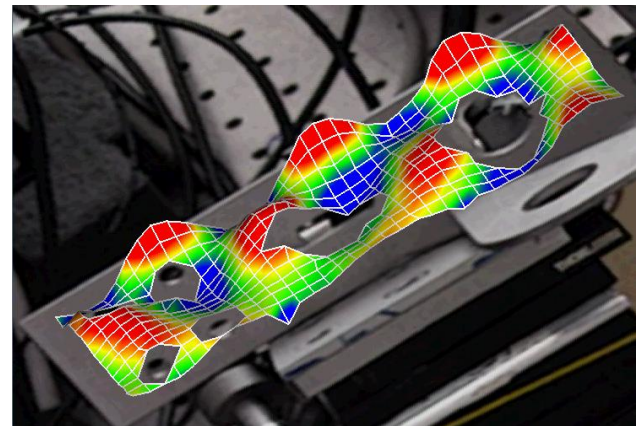
16054 Hz



19589 Hz

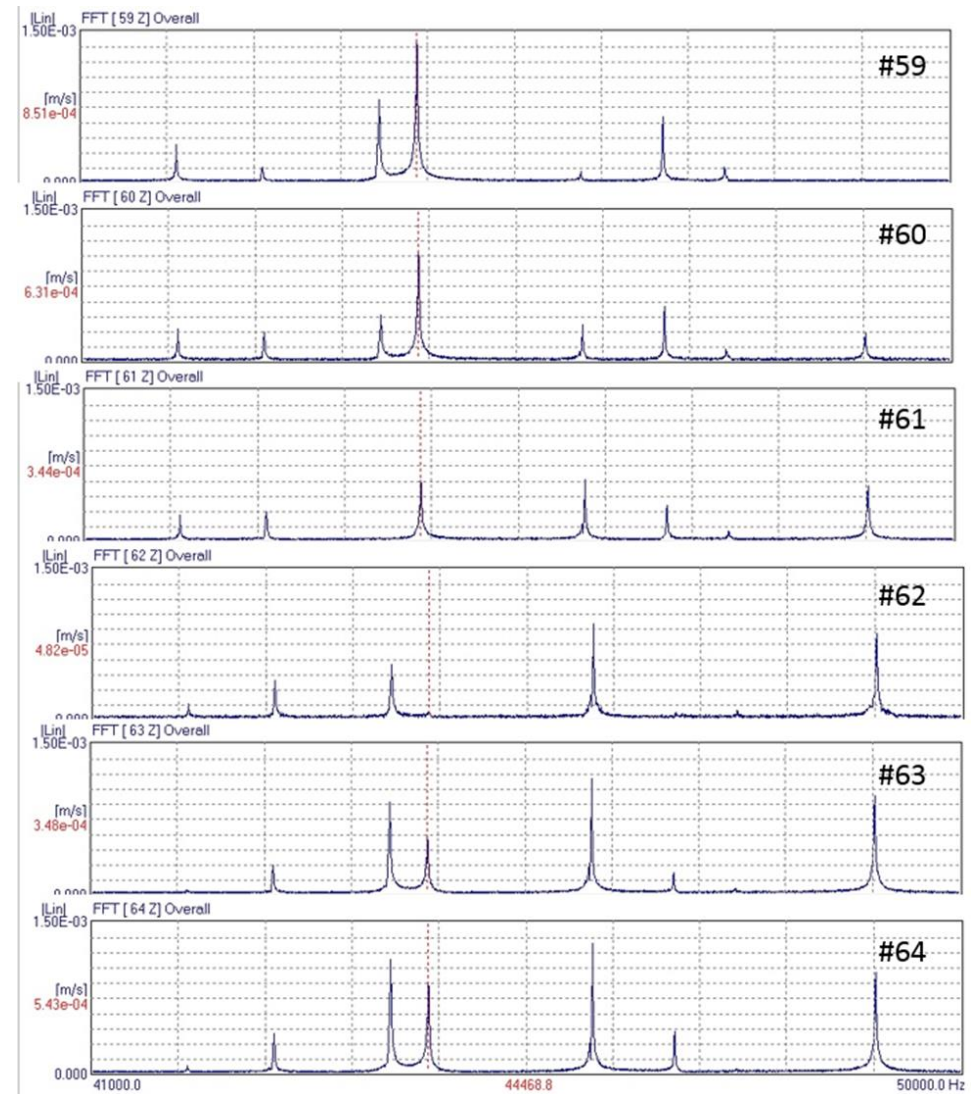
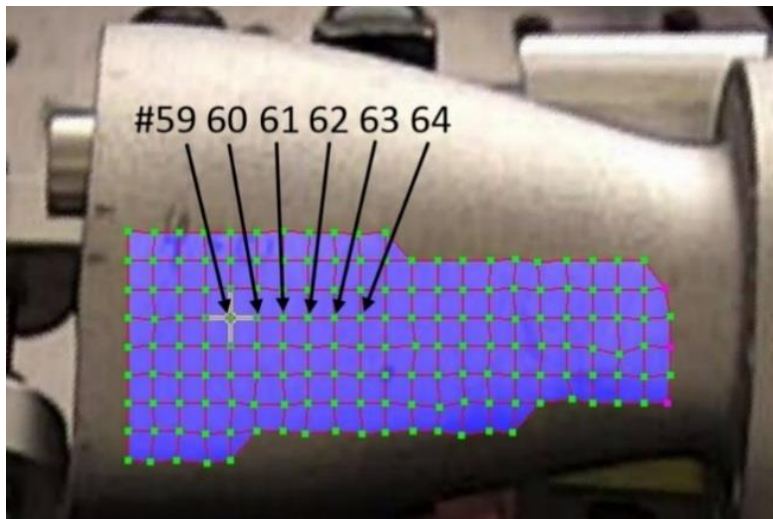
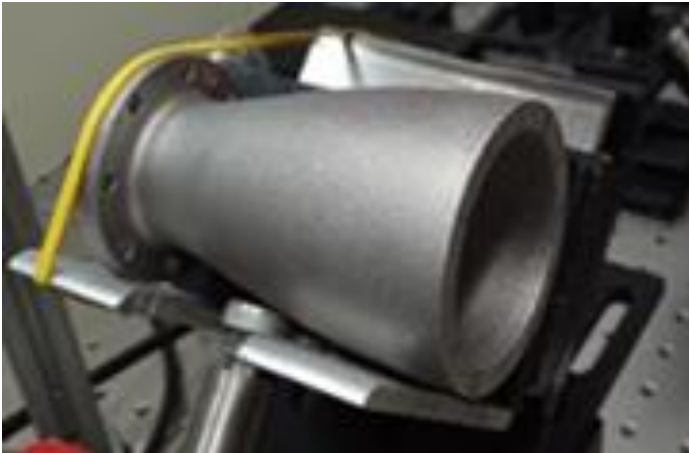


28139 Hz



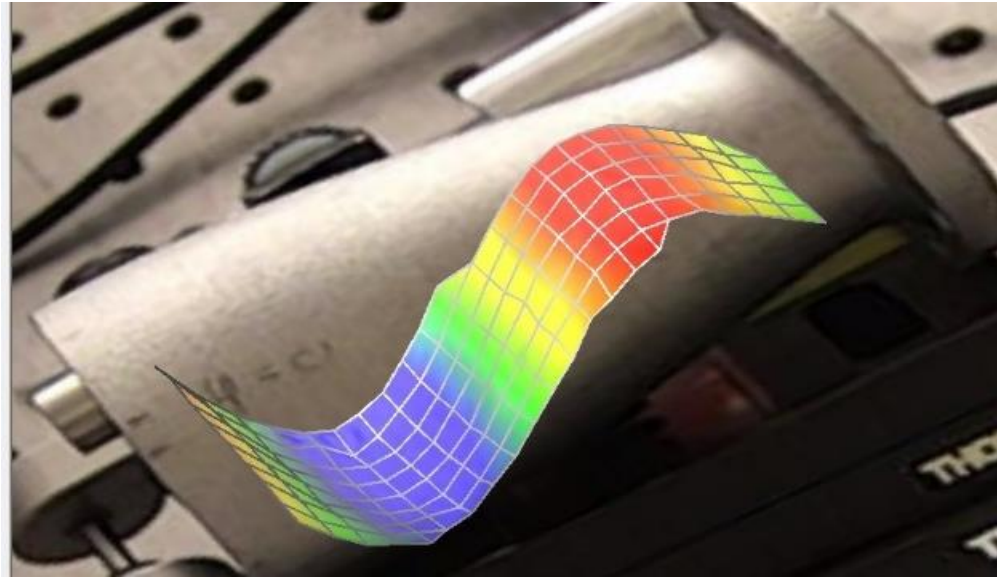
32098 Hz

LS01 Example – Nozzle

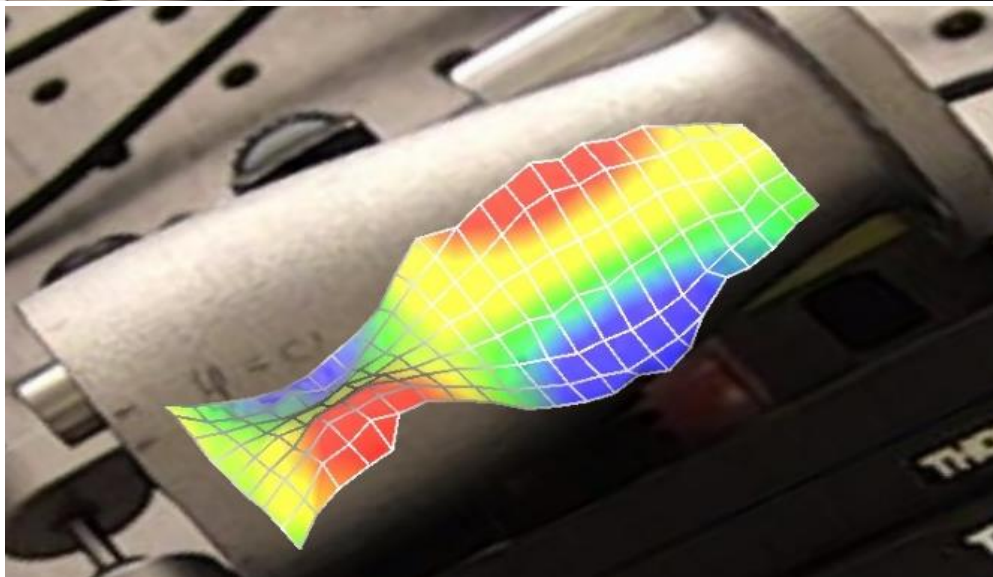


Vibration spectrum of the nozzle

LS01 – Nozzle Animations

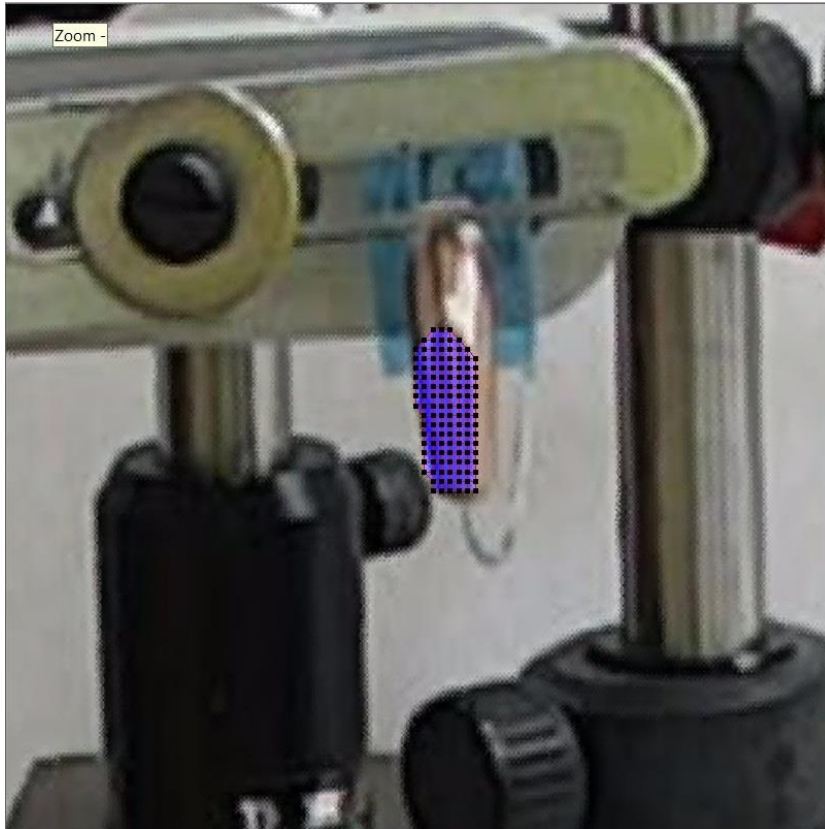


35074 Hz

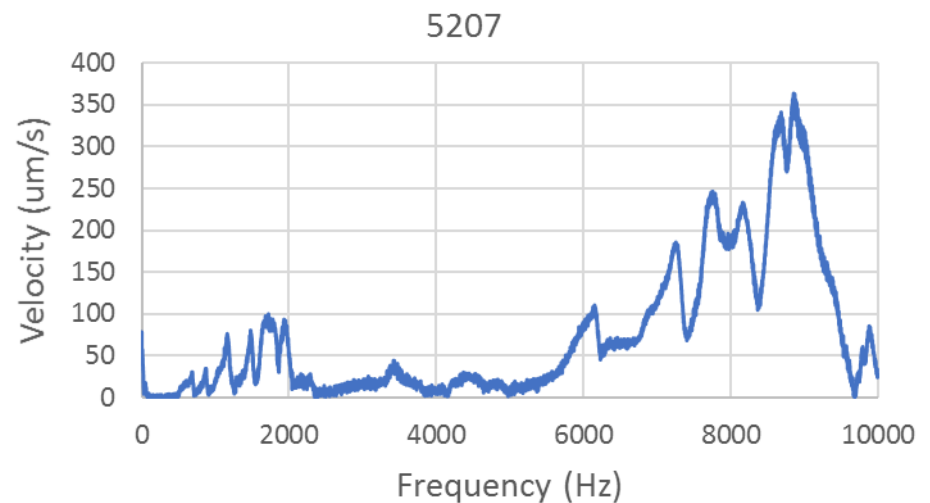


40230Hz

LS01 Example – Hearing Aid

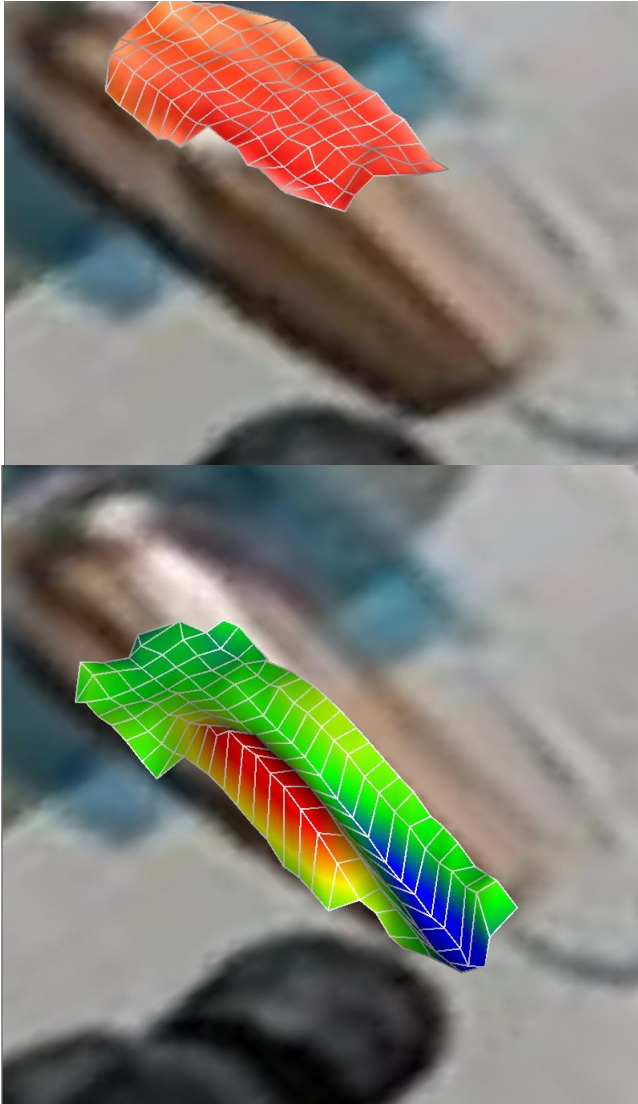


Hundreds of measurement locations were created on the battery cover of a small hearing aid. The separation between measurement positions was less than 1 mm.



Typical vibration spectrum

LS01 – Hearing Aid Animations



The cover on the hearing aid moves as one unit at low frequencies

At high frequencies, some spatial variations can be seen in the vibration