The Progress 51P vehicle was used to reboost the altitude of the ISS on GMT 28-April-2013 from about 10:03 to about 10:15.

This spectrogram shows the impact of the reboost event as a yellow/orange/red vertical broadband disturbance during reboost. Note the elevated structural mode excitation at multiple distinct frequencies primarily below about 0.9 Hz – these are the horizontal, red streaks at those distinct frequencies.

Regime: Vibratory
Category: Vehicle
Source: Progress 51P Reboost
The per-axis acceleration versus time plots shown to the left spans 1 hour centered on the reboost event, which lasts just under 12 minutes. This plot shows the quasi-steady impact of reboost:

- The X-axis exhibits a large offset (about 207 ug) during reboost. This acceleration imparts a net X-axis velocity change of 1.56 m/s.
- The Y-axis and Z-axis show very little impact on the scale compared to the X-axis.