

### LAT Tracker Random Vibration Test Levels

Frequency (Hz)	Acceptance Level
20	0.01 G <sup>2</sup> /Hz
20 – 50	+5.9 dB/octave
50 - 800	0.06 G <sup>2</sup> /Hz
800 – 2000	-5.9 dB/octave
2000	0.01 G <sup>2</sup> /Hz
<b>Overall</b>	<b>8.7 G<sub>rms</sub></b>

Frequency (Hz)	Qualification Level
20	0.02 G <sup>2</sup> /Hz
20 – 50	+5.9 dB/octave
50 - 800	0.12 G <sup>2</sup> /Hz
800 – 2000	-5.9 dB/octave
2000	0.02 G <sup>2</sup> /Hz
<b>Overall</b>	<b>12.3 G<sub>rms</sub></b>

**NOTES:**

- Levels apply to all three axes (LAT X, Y, and Z)
- Acceptance test duration = 1 minute/axis
- Qualification (protoflight) test duration = 1 minute/axis
- Qualification (prototype) test duration = 2 minute/axis
- Mass of each tracker = 31 Kg

### LAT Tracker Static Test Levels

Axis	Acceptance Level (G)	Qualification Level (G)
Lateral (LAT X direction)	3.7	4.6
Lateral (LAT Y direction)	3.7	4.6
Thrust (LAT Z direction)	6.8	8.5

**NOTES:**

- The above levels are based on the results of the 2 preliminary GLAST CLA cycles, which used spacecraft models from 2 possible vendors. The CLA results are adjusted up to allow selection of any other spacecraft for the GLAST mission.
- Calculated CLA tracker angular accelerations have been taken into account in determining the above linear test levels.