

KING DESIGN INDUSTRIAL CO., LTD.

5F, NO. 3, Lane 270, Pei Shen Road Sec. 3,

Shen Keng Dist., New Taipei City, 222, Taiwan, R.O.C

TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

RELIABILITY TEST LABORATORY<http://www.kdi.tw><http://www.vibration.com.tw>E-mail: service@kdi.tw**TESTING / INSPECTION REPORT**

REPORT NO : VT-130415-4

COMPANY : EverFocus Electronics Corp.

ADDRESS : 12F, No.79, Sec. 1, Shin-Tai Wu Rd., Hsi-Chih
Taipei, Taiwan

TEL : 886-2-2698-2334

FAX : 886-2-2698-2380

SPECIMEN : Mobile Mini Dome Network Camera

DATE OF RECEIVED : 2012/11/08

DATE OF TESTED : 2012/11/09

TEST / INSPECTION ITEMS : Vibration & Shock Test

REMARKS :

- The laboratory is accredited by ISO/IEC 17025 General Requirements for the Competence of Calibration and Testing Laboratory.
- The results only apply to the device under test.
- This report is 22 pages, and no part of it may be abstracted or reproduced.

Test Engineer :

Approval Signatory :



Laboratory Head :



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TESTING / INSPECTION REPORT

TESTING EQUIPMENT :

- 1.Vibration Tester : KING DESIGN KD-9363EM-1000F2K-50N120,
S/N : GUG02102091
2.Controller : DACTRON LASER USB, S/N:12448370
3.Control Accelerometer : Wilcoxon Research WR-777, S/N:4207

TEST ENVIRONMENT :

- Temperature : 23.2°C (25±10°C)
Relative Humidity : 57% RH (50±25% RH)

SPECIMEN :

- Model : EMN2320
Quantity : 2 pieces

TESTING / INSPECTION REPORT

TEST SPECIFICATION(1) :**Reference to EN50155/(EN)IEC 61373 , Category 1 , Class B****Random vibration test (Non-Operating)**

Frequency	: 5 Hz to 150 Hz
Acceleration	: 7.9 m/s ² rms (for Vertical) : 3.5 m/s ² rms (for Transverse) : 5.5 m/s ² rms (for Longitudinal)
P.S.D	: 1.857 (m/s ²) ² / Hz (5 Hz to 20Hz for Vertical) : 0.366 (m/s ²) ² / Hz (5 Hz to 20Hz for Transverse) : 0.901 (m/s ²) ² / Hz (5 Hz to 20Hz for Longitudinal) -6dB/oct (20 Hz to 150 Hz)
Test Axis	: Vertical, Transverse, Longitudinal
Test Time	: 5 hrs (Each Axis)
Total Test Time	: 15 hrs

TEST SPECIFICATION(2) :**Reference to EN50155/(EN)IEC 61373 , Category 1 , Class B****Shock test (Operating)**

Wave Form	: Half sine wave
Acceleration	: 30 m/s ² (for Vertical and Transverse) : 50 m/s ² (for Longitudinal)
Duration Time	: 30 mS
No. of Shock	: 3 times (Each Axis)
Shock Direction	: ±Vertical, ±Transverse, ±Longitudinal

TESTING / INSPECTION REPORT

TEST SPECIFICATION(3) :

Reference to EN50155/(EN)IEC 61373 , Category 1 , Class B

Random vibration test (Operating)

- Frequency : 5 Hz to 150 Hz
- Acceleration : 1.00 m/s² rms (for Vertical)
- : 0.45 m/s² rms (for Transverse)
- : 0.70 m/s² rms (for Longitudinal)
- P.S.D : 0.0298 (m/s²)²/ Hz (5 Hz to 20Hz for Vertical)
- : 0.0060 (m/s²)²/ Hz (5 Hz to 20Hz for Transverse)
- : 0.0144 (m/s²)²/ Hz (5 Hz to 20Hz for Longitudinal)
- 6dB/oct (20 Hz to 150 Hz)
- Test Axis : Vertical, Transverse, Longitudinal
- Test Time : 10 mins (Each Axis)
- Total Test Time : 30 mins

TEST RESULT :

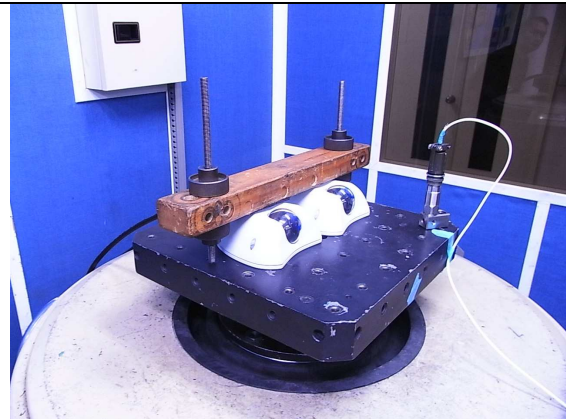
Describe	PASS	FAIL	Non-Judgment
Function judgment	√	— —	— —
Network Webpage Video	√	— —	— —
Appearance check	√	— —	— —

TESTING / INSPECTION REPORT

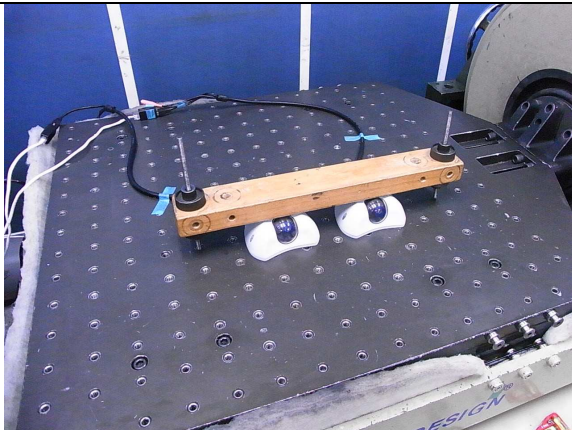
Random vibration test photos (Non-Operating)



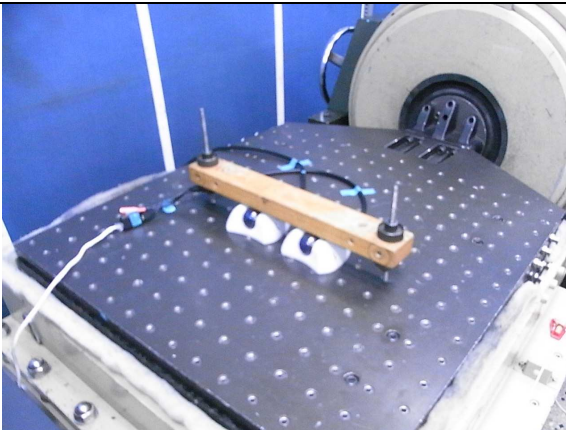
Vertical



Transverse



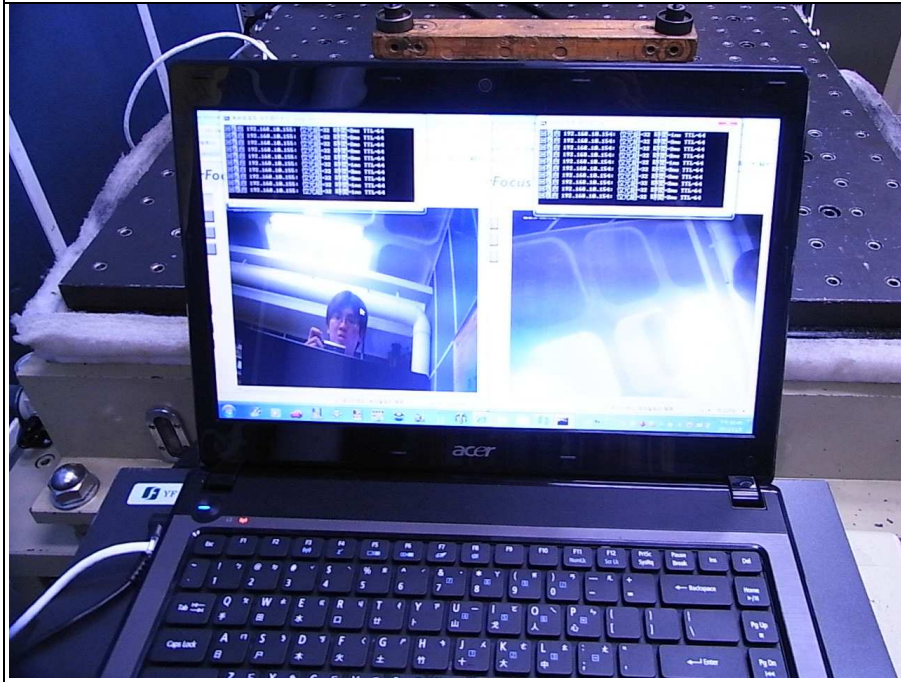
Longitudinal



TESTING / INSPECTION REPORT

Testing photos

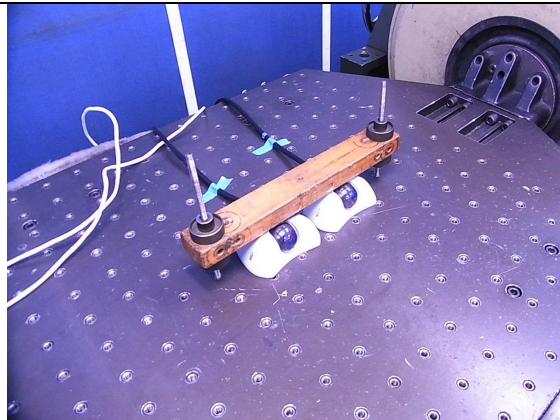
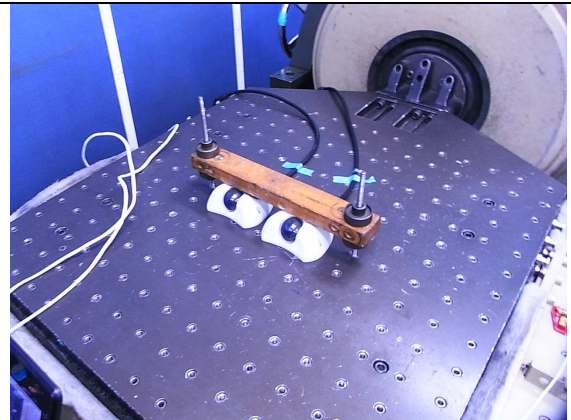
After test



TESTING / INSPECTION REPORT

Shock testing photos (Operating)

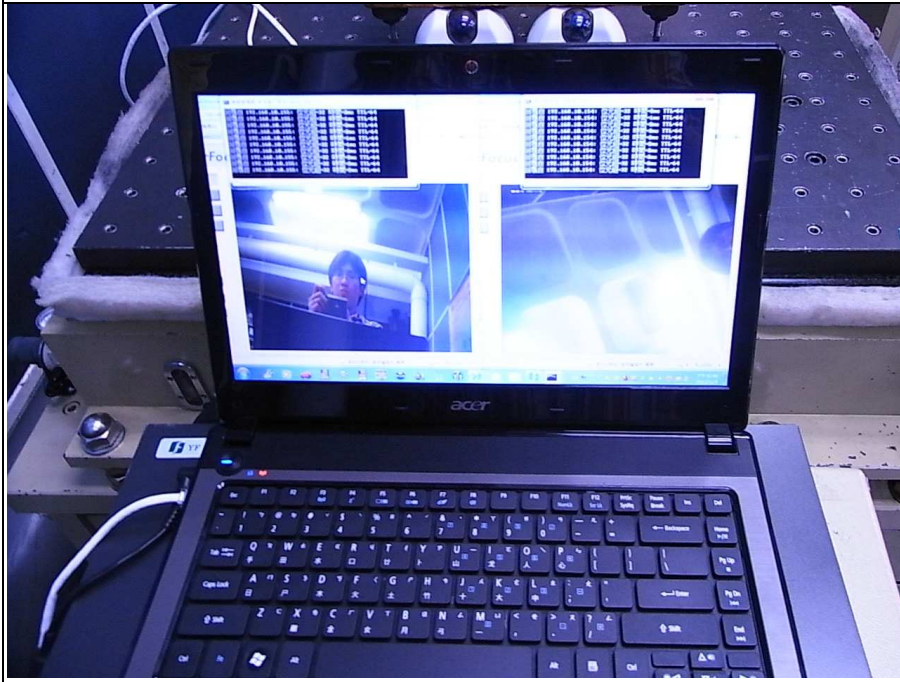

±Vertical

±Transverse

±Longitudinal


TESTING / INSPECTION REPORT

Testing photos

After test



TESTING / INSPECTION REPORT

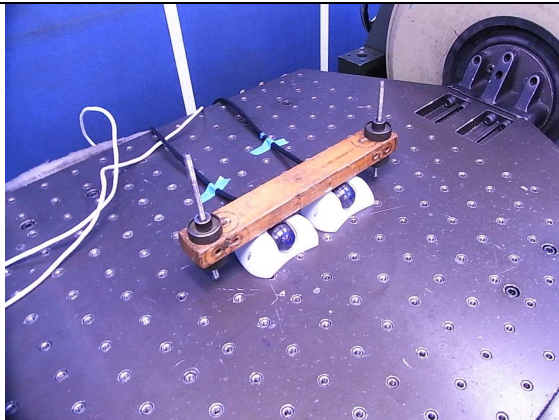
Shock testing photos (Operating)



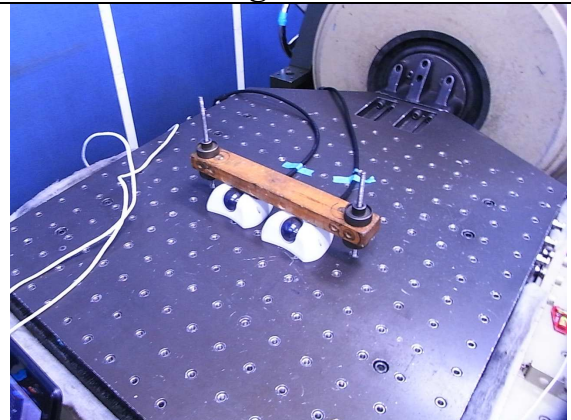
Vertical



Transverse



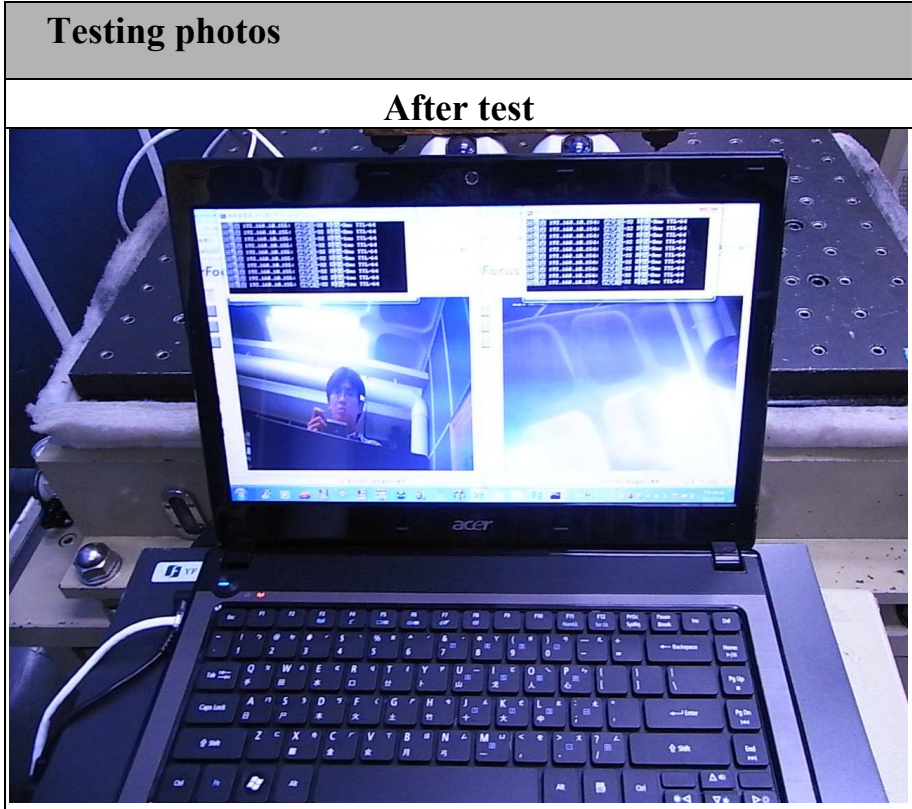
Longitudinal



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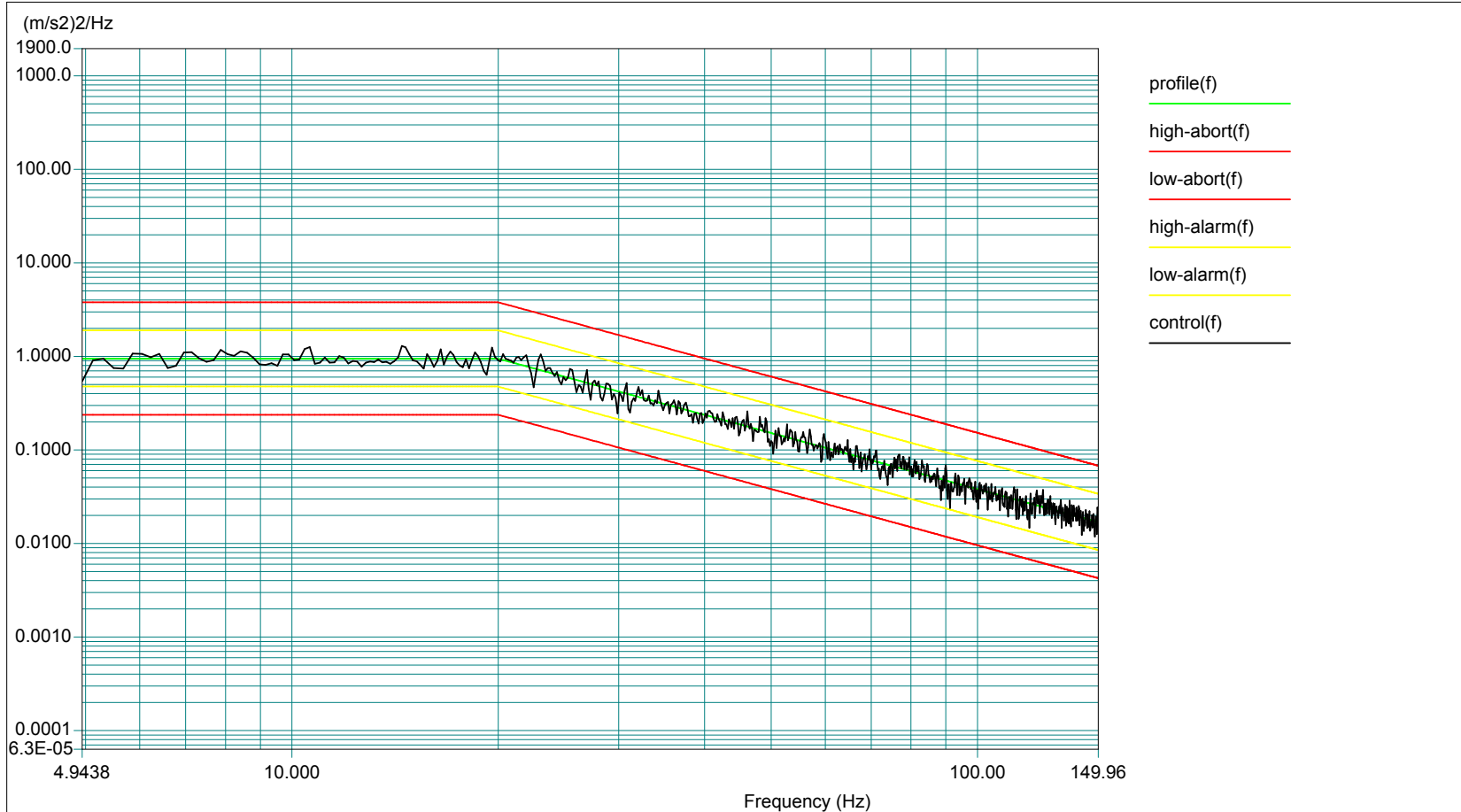
TESTING / INSPECTION REPORT



Longitudinal

Project File Name: IEC 61373 Non-Operating Longitudinal.prj

Profile Name: Test Type: Random Run Folder: .



Level: 100 %

Control RMS: 5.506574 m/s² Full Level Elapsed Time: 05:00:00

Lines: 900 Frame Time: 5.461333 Seconds

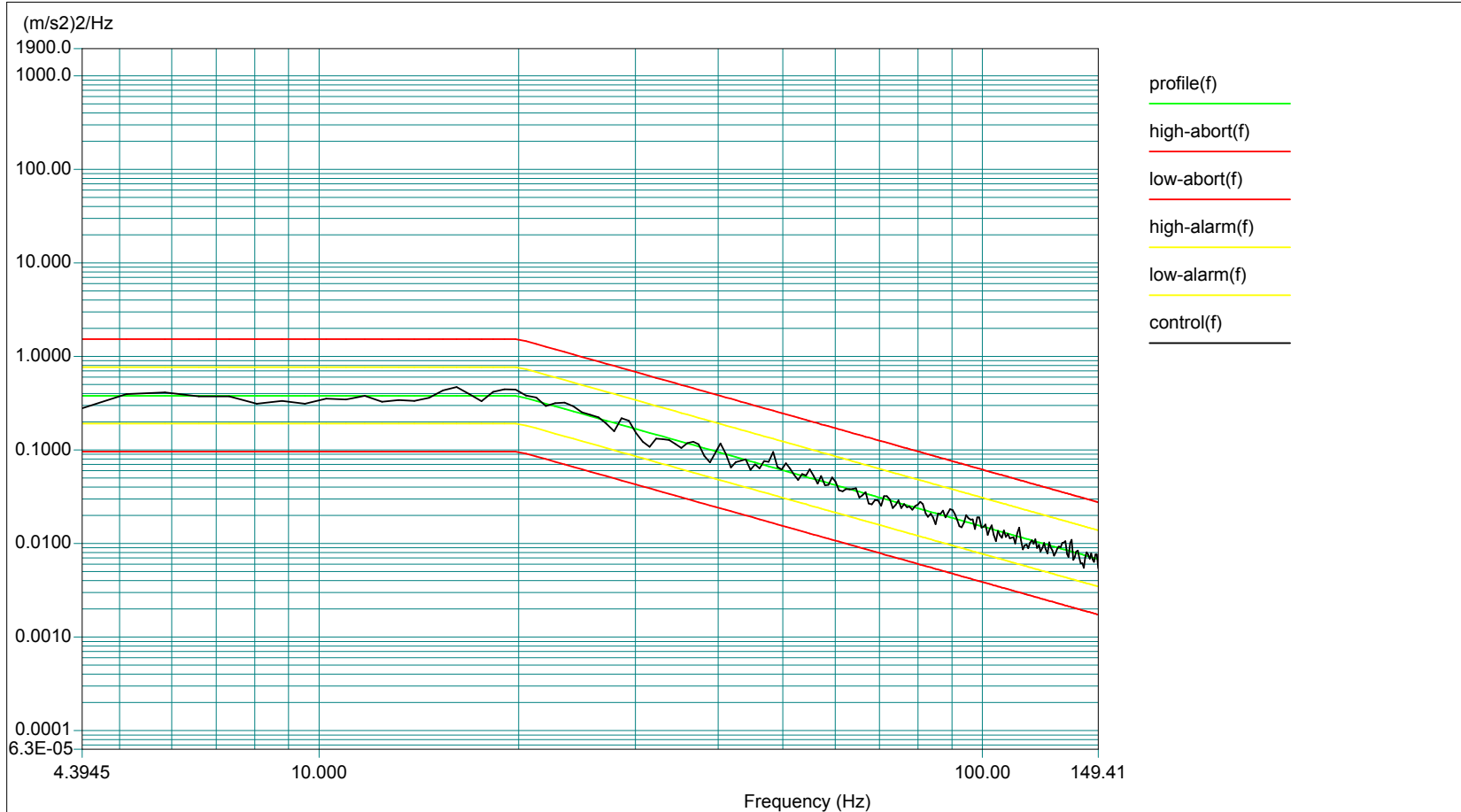
Demand RMS: 5.510543 m/s² Remaining Time: 00:00:00

DOF: 154 dF: 0.183105 Hz

Transverse

Project File Name: IEC 61373 Non-Operating Transverse.prj

Profile Name: Test Type: Random Run Folder:



Level: 100 %

Control RMS: 3.520767 m/s² Full Level Elapsed Time: 05:00:00

Lines: 225 Frame Time: 1.365333 Seconds

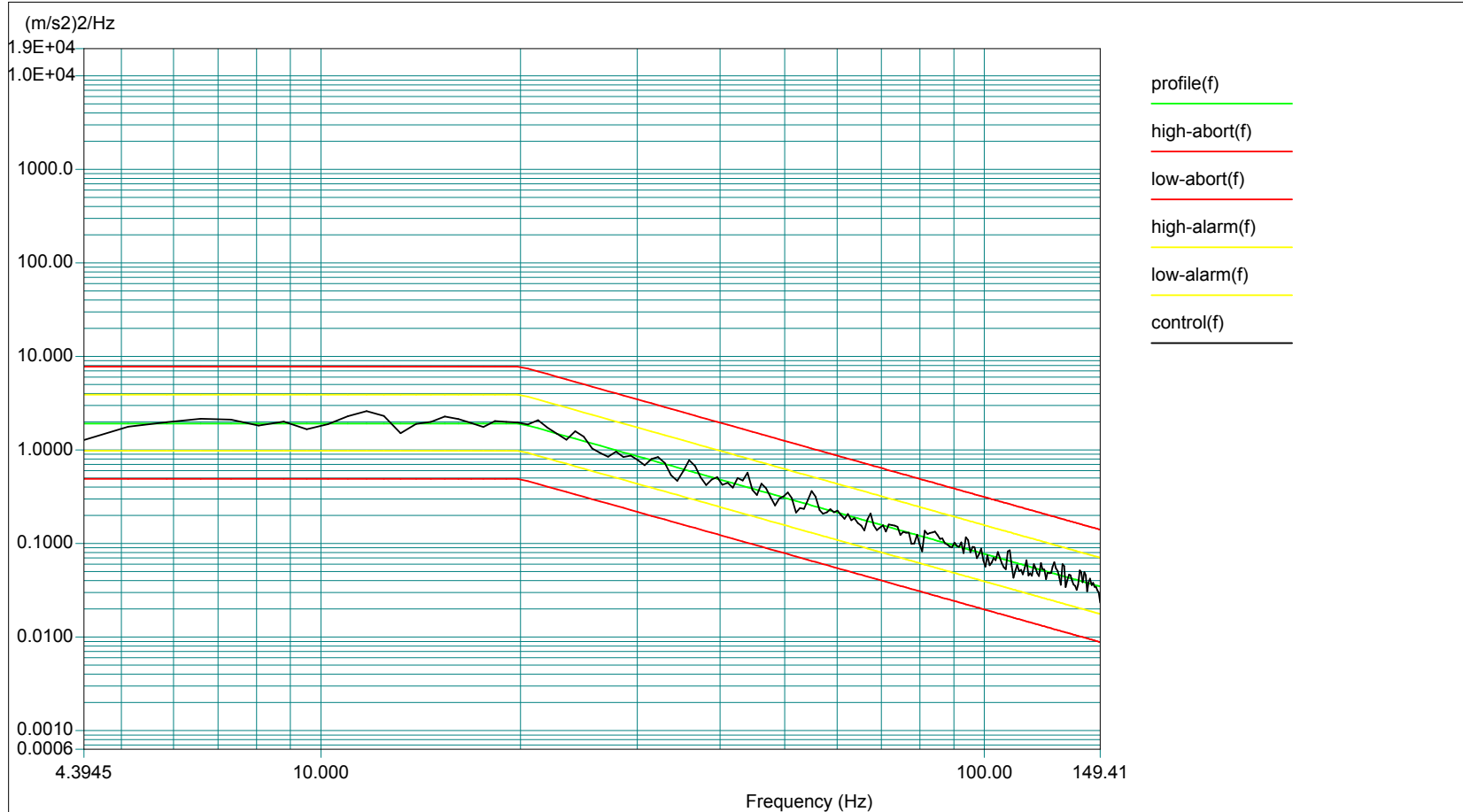
Demand RMS: 3.528521 m/s² Remaining Time: 00:00:00

DOF: 154 dF: 0.732422 Hz

Vertical

Project File Name: IEC 61373 Class B Non-Operating Vertical.prj

Profile Name: Test Type: Random Run Folder:



Level: 100 %

Control RMS: 8.026987 m/s² Full Level Elapsed Time: 05:00:00

Lines: 225 Frame Time: 1.365333 Seconds

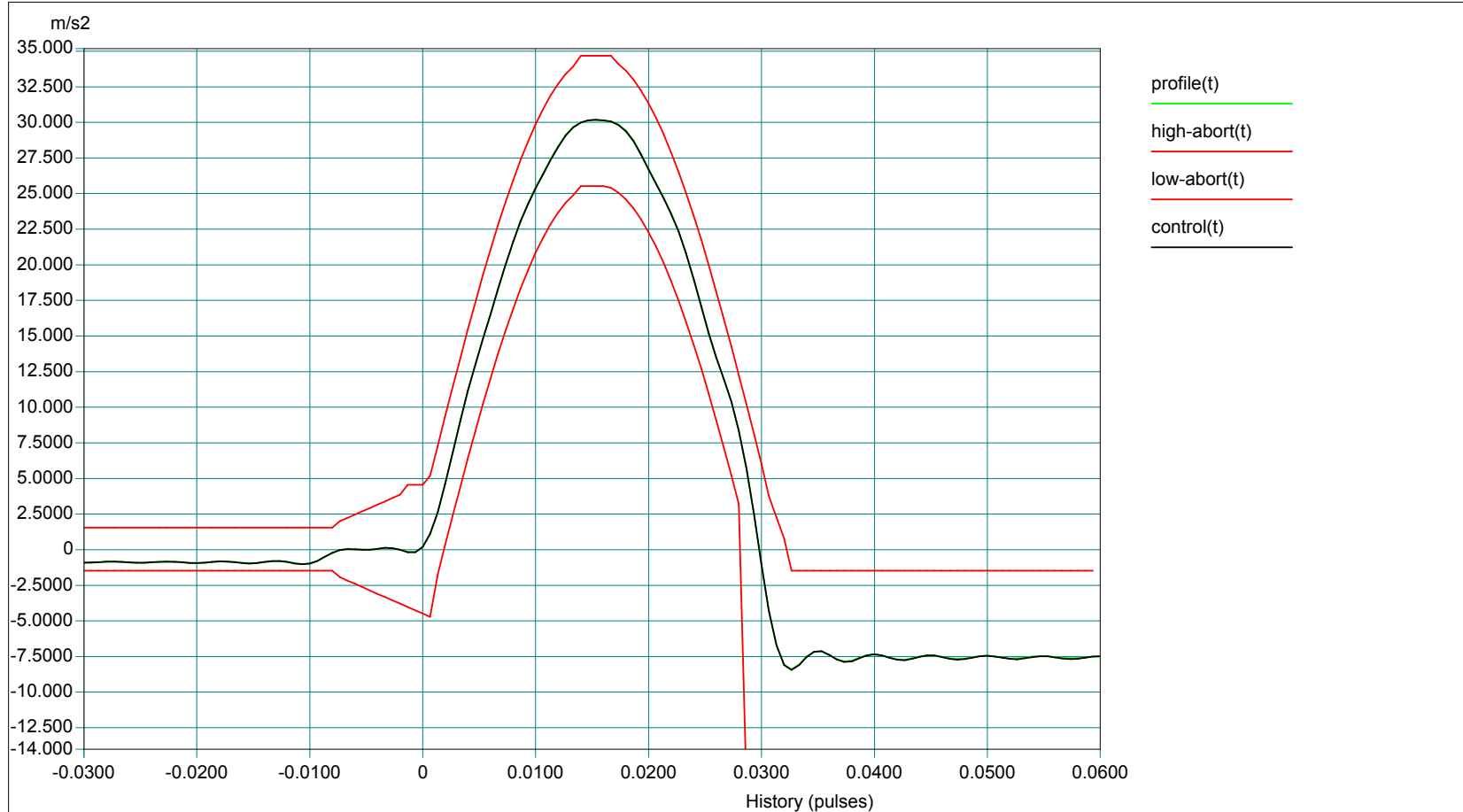
Demand RMS: 7.964375 m/s² Remaining Time: 00:00:00

DOF: 154 dF: 0.732422 Hz

+Vertical

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

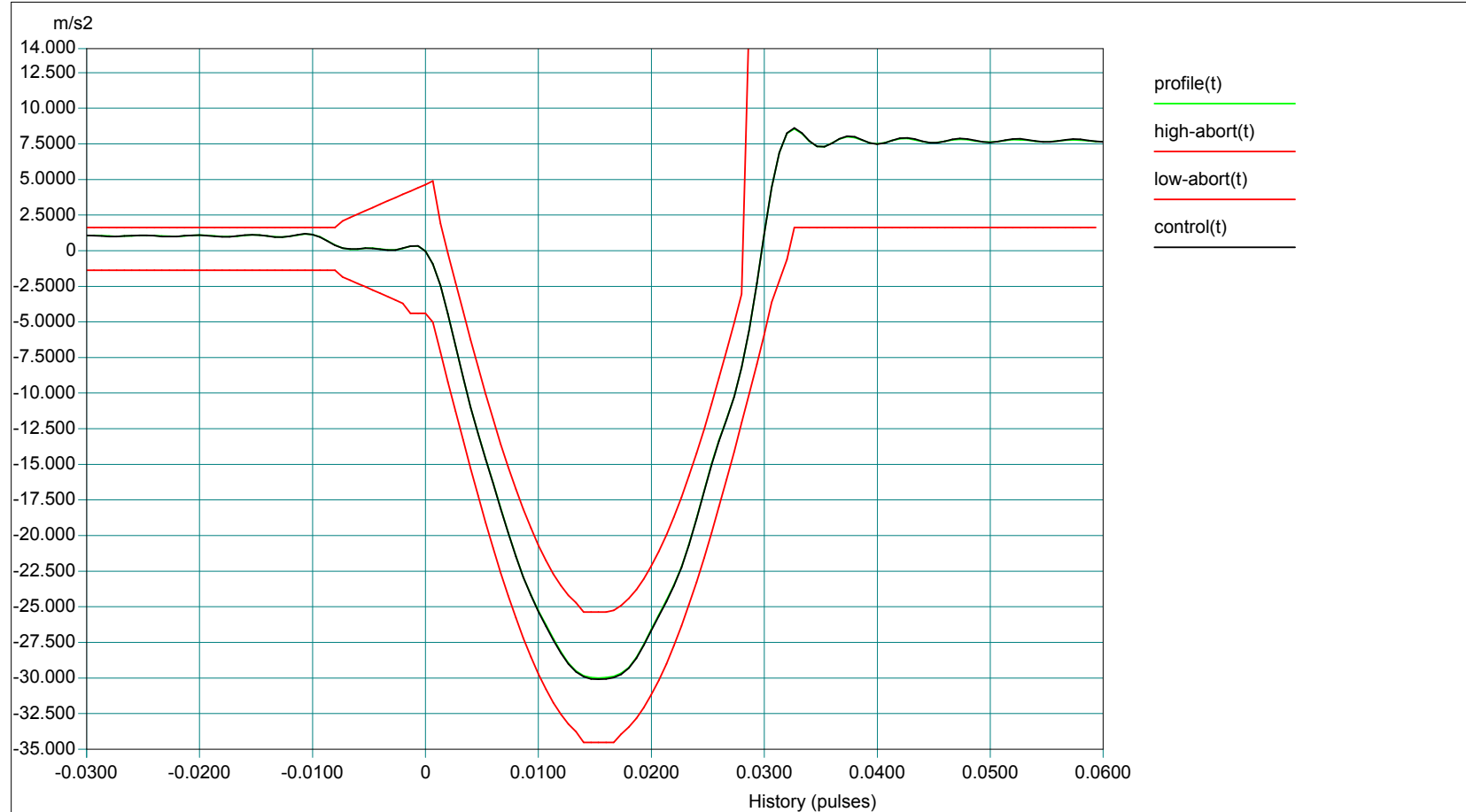


Level: 100 % Block Size: 2048 Elapsed Pulses: 14
 Frame Time: 1.365333 Seconds Control Peak: 30.014397 m/s² Control RMS: 3.737317 m/s² Full Level Elapsed Pulses: 3
 dT: 0.000667 Seconds Demand Peak: 30.000000 m/s² Demand RMS: 3.734729 m/s² Remaining Pulses: 8
 Pulse Type: Half Sine Amplitude: 30.000000 m/s² Pulse Width: 30.000001 ms

-Vertical

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

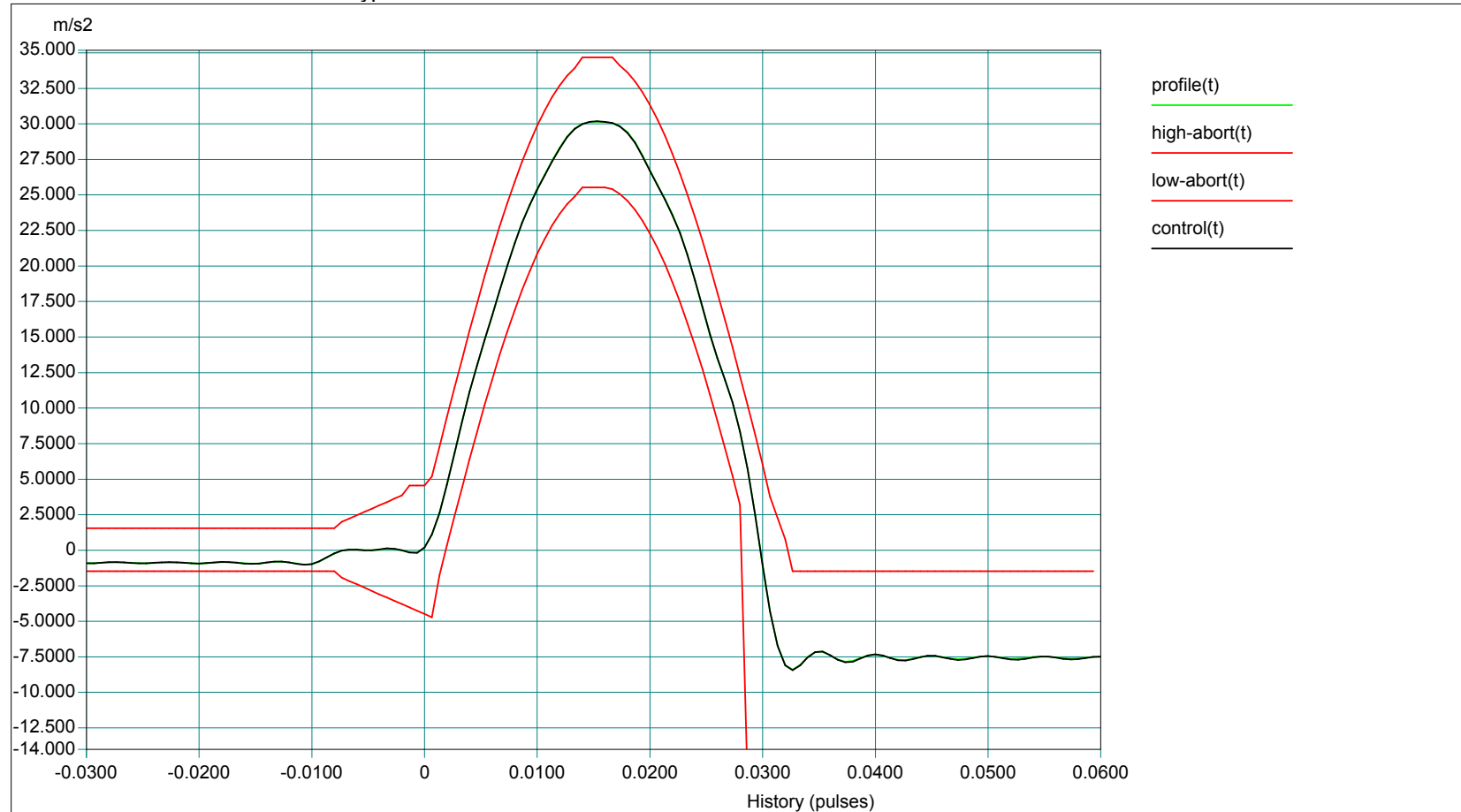


Level: 100 % Block Size: 2048 Elapsed Pulses: 22
 Frame Time: 1.365333 Seconds Control Peak: 30.097160 m/s² Control RMS: 3.745393 m/s² Full Level Elapsed Pulses: 6
 dT: 0.000667 Seconds Demand Peak: 30.000000 m/s² Demand RMS: 3.734729 m/s² Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 30.000000 m/s² Pulse Width: 30.000001 ms

+Transverse

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

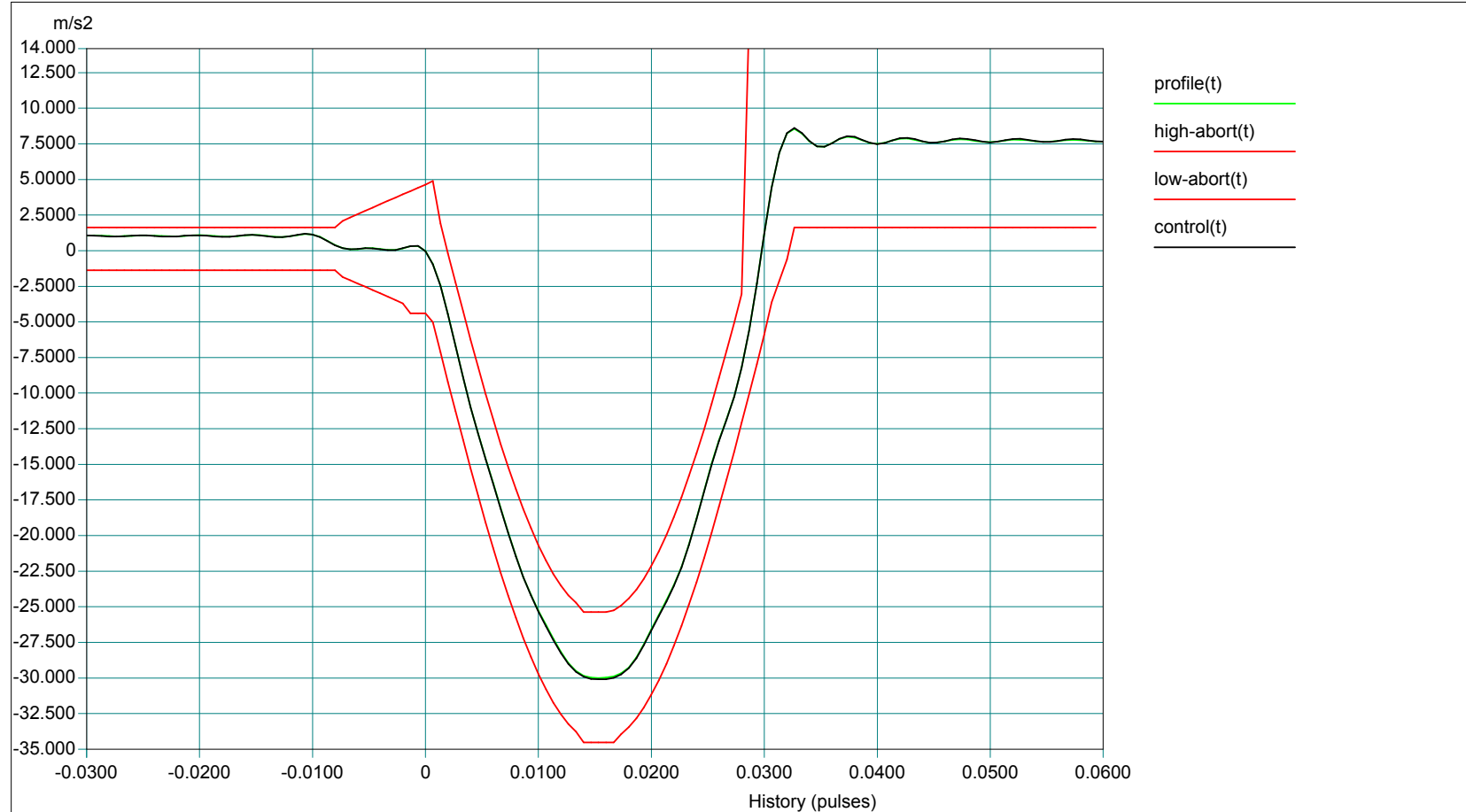


Level: 100 % Block Size: 2048 Elapsed Pulses: 14
 Frame Time: 1.365333 Seconds Control Peak: 30.017878 m/s² Control RMS: 3.737237 m/s² Full Level Elapsed Pulses: 3
 dT: 0.000667 Seconds Demand Peak: 30.000000 m/s² Demand RMS: 3.734729 m/s² Remaining Pulses: 8
 Pulse Type: Half Sine Amplitude: 30.000000 m/s² Pulse Width: 30.000001 ms

-Transverse

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

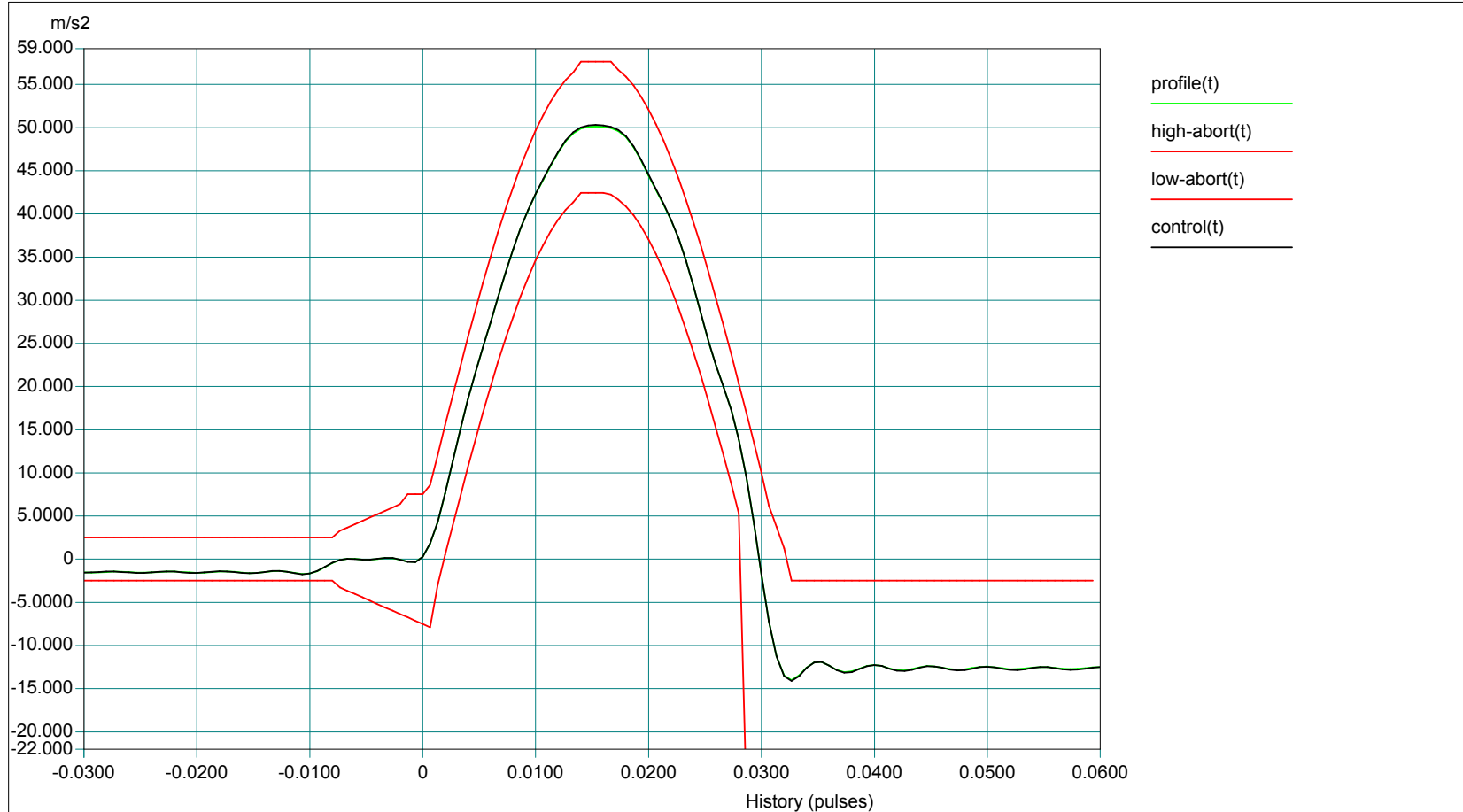


Level: 100 % Block Size: 2048 Elapsed Pulses: 22
 Frame Time: 1.365333 Seconds Control Peak: 30.100548 m/s² Control RMS: 3.745729 m/s² Full Level Elapsed Pulses: 6
 dT: 0.000667 Seconds Demand Peak: 30.000000 m/s² Demand RMS: 3.734729 m/s² Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 30.000000 m/s² Pulse Width: 30.000001 ms

+Longitudinal

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

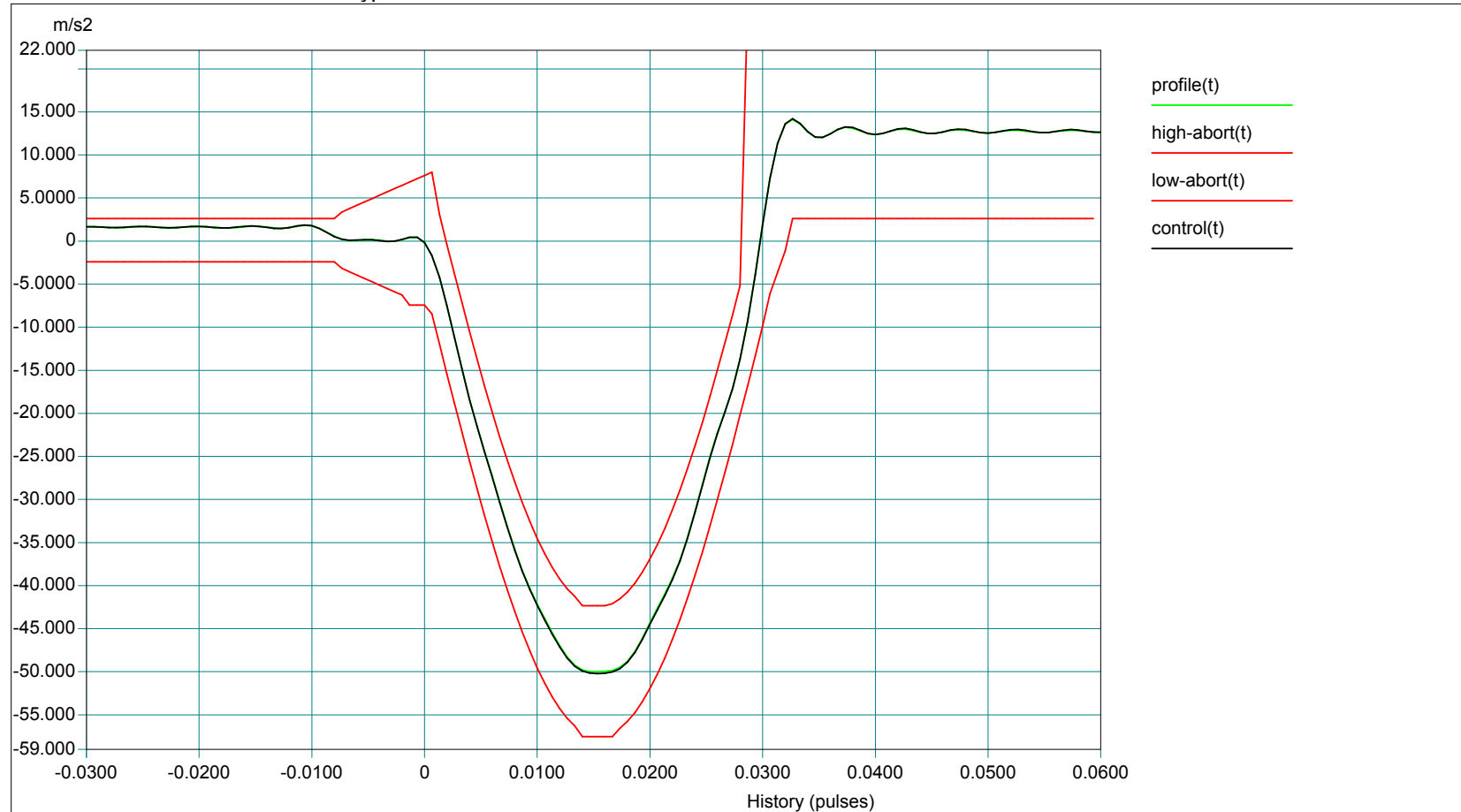


Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 1.365333 Seconds Control Peak: 50.168896 m/s² Control RMS: 6.241415 m/s² Full Level Elapsed Pulses: 3
 dT: 0.000667 Seconds Demand Peak: 50.000000 m/s² Demand RMS: 6.224548 m/s² Remaining Pulses: 5
 Pulse Type: Half Sine Amplitude: 50.000000 m/s² Pulse Width: 30.000001 ms

-Longitudinal

Project File Name:

Profile Name: Test Type: Classical Shock Run Folder:

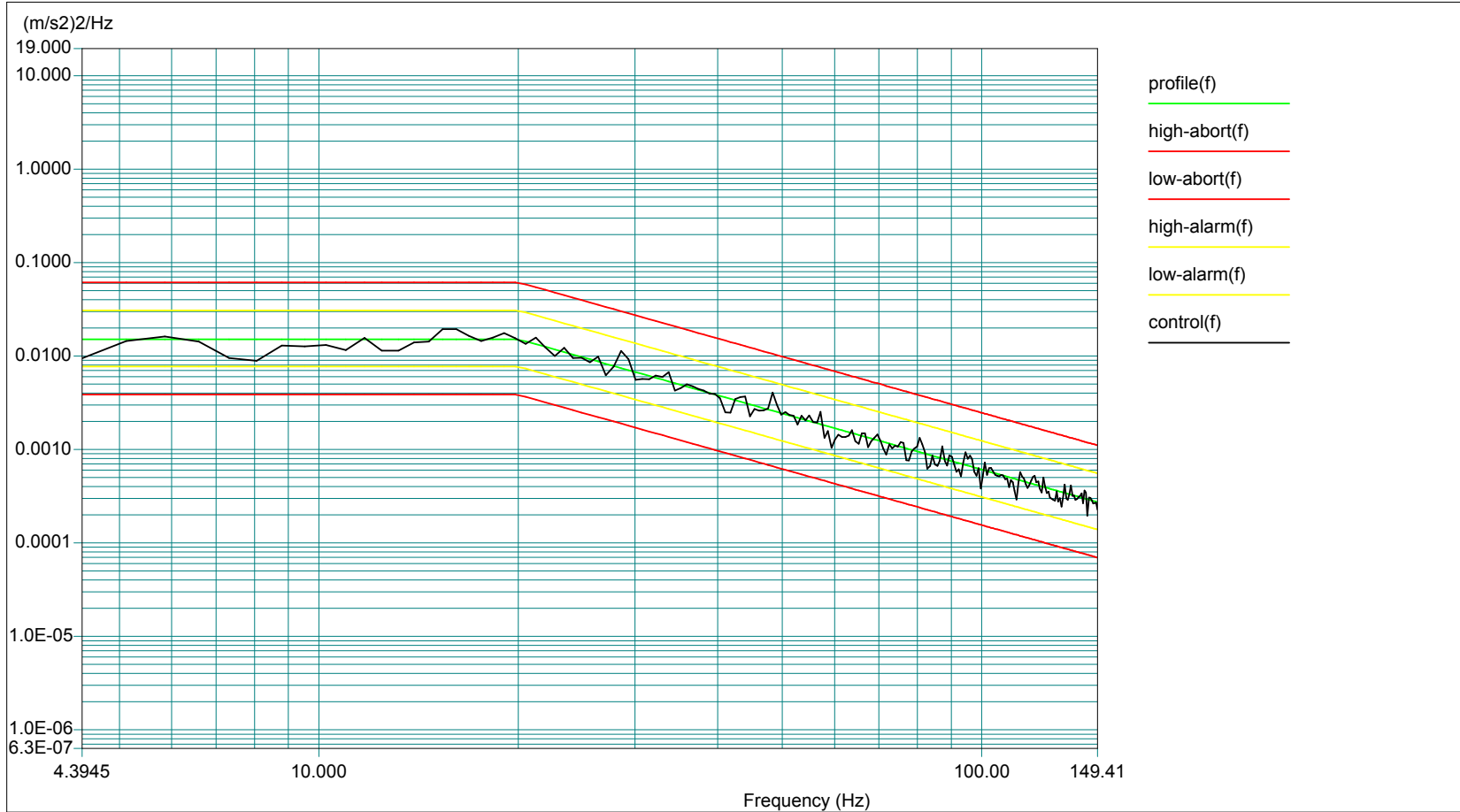


Level: 100 % Block Size: 2048 Elapsed Pulses: 16
 Frame Time: 1.365333 Seconds Control Peak: 50.189121 m/s² Control RMS: 6.246597 m/s² Full Level Elapsed Pulses: 6
 dT: 0.000667 Seconds Demand Peak: 50.000000 m/s² Demand RMS: 6.224548 m/s² Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 50.000000 m/s² Pulse Width: 30.000001 ms

Longitudinal

Project File Name: IEC 61373 OP Longitudinal.prj

Profile Name: Test Type: Random Run Folder:



Level: 100 %

Control RMS: 0.693865 m/s² Full Level Elapsed Time: 00:10:00

Lines: 225 Frame Time: 1.365333 Seconds

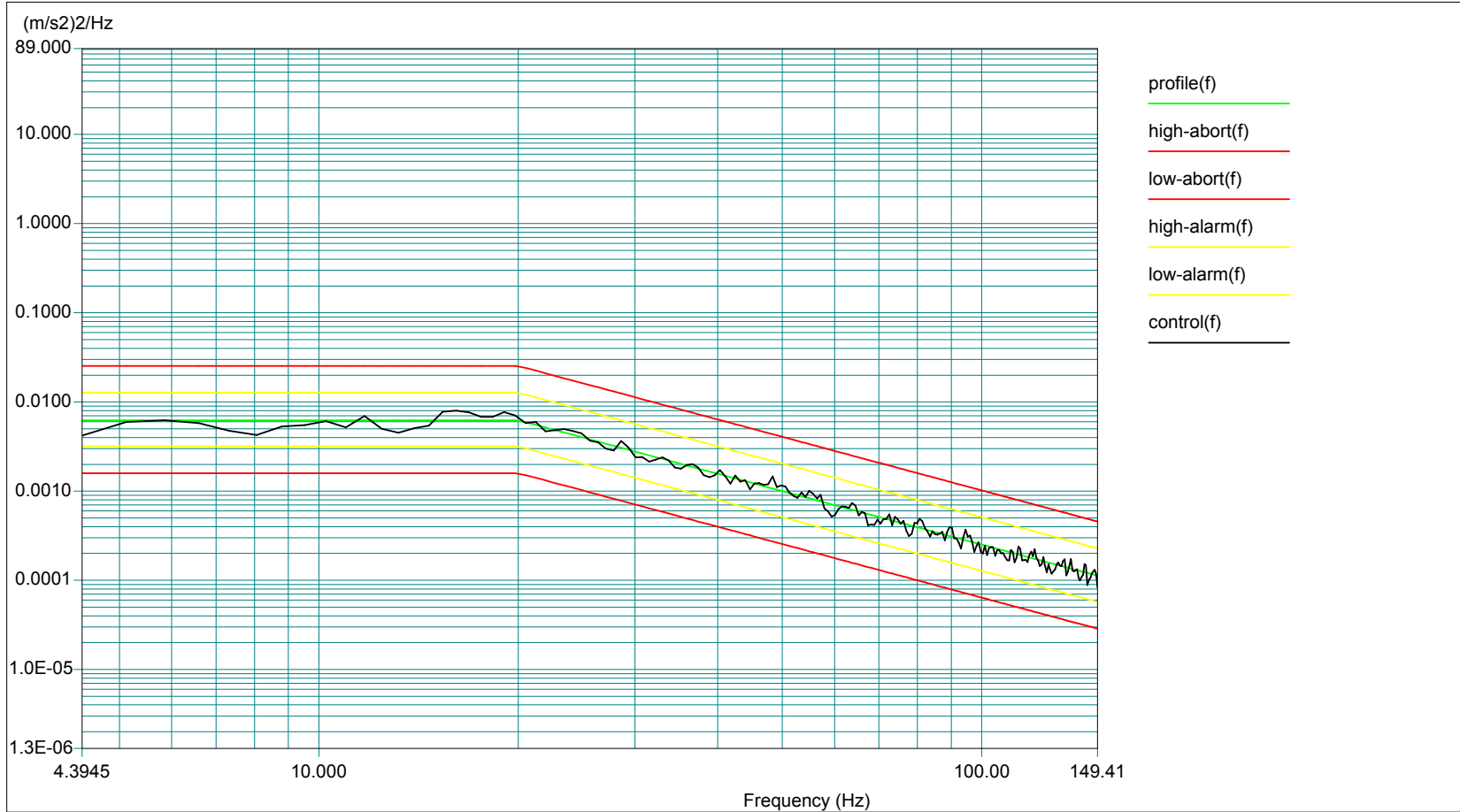
Demand RMS: 0.705704 m/s² Remaining Time: 00:00:00

DOF: 154 dF: 0.732422 Hz

Transverse

Project File Name: IEC 61373 OP Transverse.prj

Profile Name: Test Type: Random Run Folder:



Level: 100 %

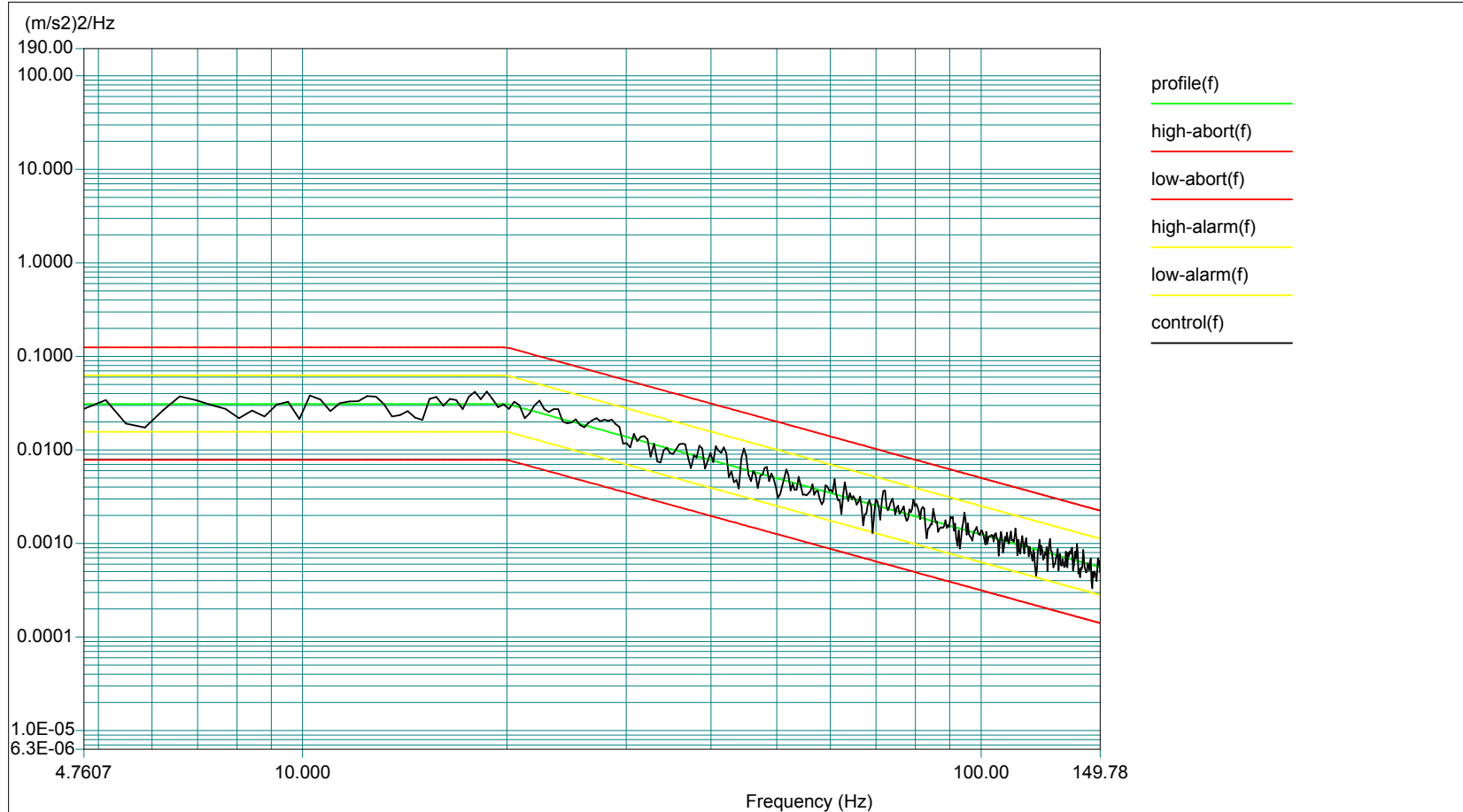
Control RMS: 0.449379 m/s² Full Level Elapsed Time: 00:10:00 Lines: 225 Frame Time: 1.365333 Seconds

Demand RMS: 0.453667 m/s² Remaining Time: 00:10:00 DOF: 154 dF: 0.732422 Hz

Vertical

Project File Name: IEC 61373 OP Vertical.prj

Profile Name: Test Type: Random Run Folder



Level: 100 %

Control RMS: 1.009689 m/s² Full Level Elapsed Time: 00:10:00

Lines: 450 Frame Time: 2.730667 Seconds

Demand RMS: 1.004006 m/s² Remaining Time: 00:00:00

DOF: 154 dF: 0.366211 Hz

-END-