

TESTING / INSPECTION REPORT

REPORT NO : ST-090304-1

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SPECIMEN : ONYX-192 (With 2.5" HDD)
DATE OF RECEIVED : 2009/02/26
DATE OF TESTED : 2009/02/26

TEST / INSPECTION ITEMS : 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 10 pages, and no part of it may be abstracted or reproduced.

Test Engineer : <i>Wilk peng</i>	
Approval Signatory : <i>David Lee</i>	Laboratory Head : <i>Changbin Zai</i>



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TEST ENVIRONMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054986
2. Controller : DACTRON FRONT-End Box, S/N:4529465
3. Control Accelerometer : B&K 4399, S/N:2158445

TEST ENVIRONMENT :

- Temperature : 23.3°C (25±10°C)
- Relative Humidity : 64.2%RH (60±20% RH)

SPECIMEN :

- Model : ONYX-192 (With 2.5" HDD)
- Quantity : 1 piece

TEST SPECIFICATION :

- Wave Form : Half sine wave (Operation)
- Acceleration : 15 g
- Duration Time : 11 ms
- No. of Shock : Each axis 3 times
- Shock Direction : ±X, ±Y, ±Z axis

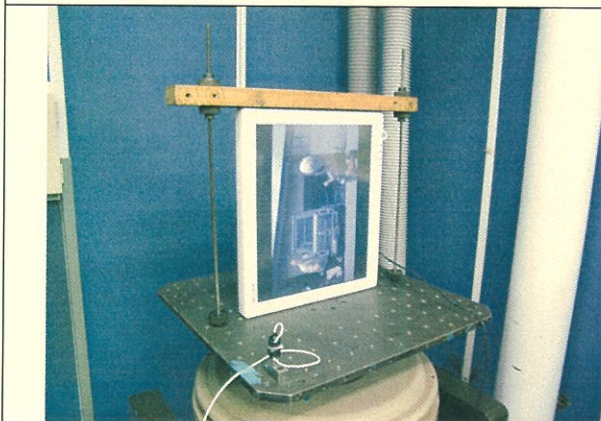
TEST RESULT :

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

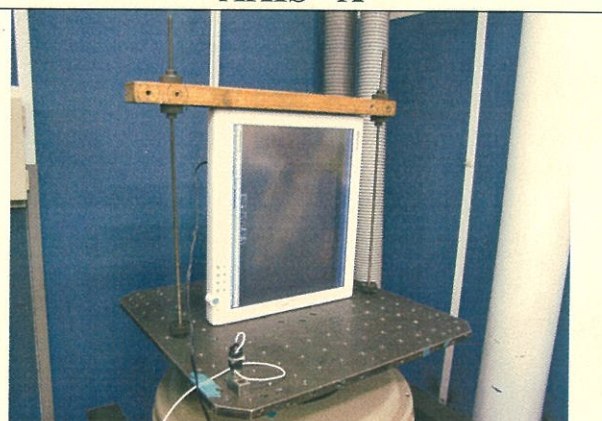
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Testing photos (Operation)

AXIS X



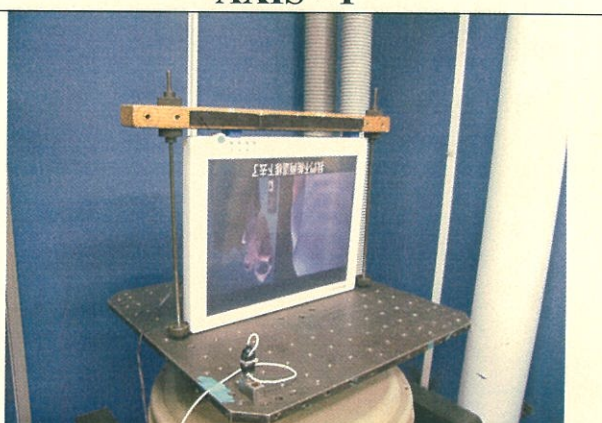
AXIS -X



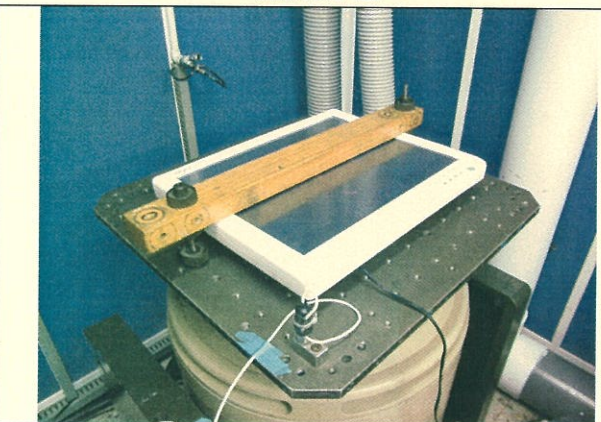
AXIS Y



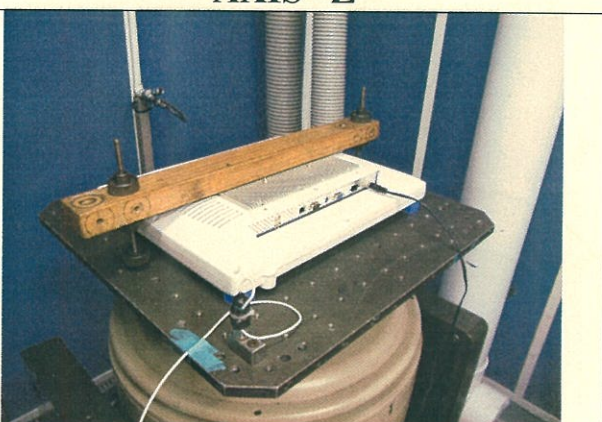
AXIS -Y



AXIS Z



AXIS -Z



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Testing photos

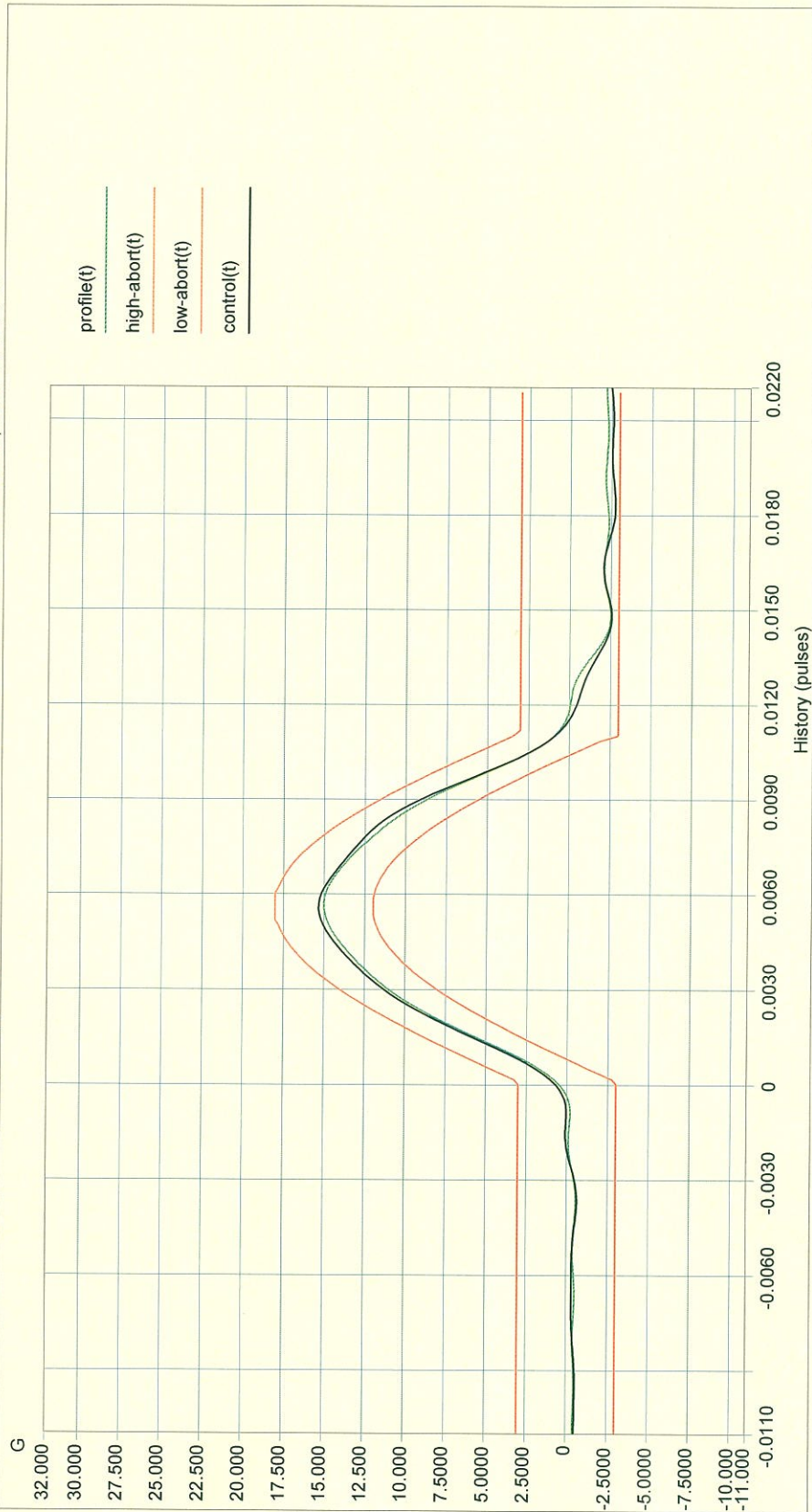
After test



Axis X

Project File Name: 15g 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 26, 2009 22-22-33



Level: 100 % Block Size: 2048 Elapsed Pulses: 14

Frame Time: 0.341333 Seconds Control Peak: 15.314296 G Control RMS: 2.094626 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0

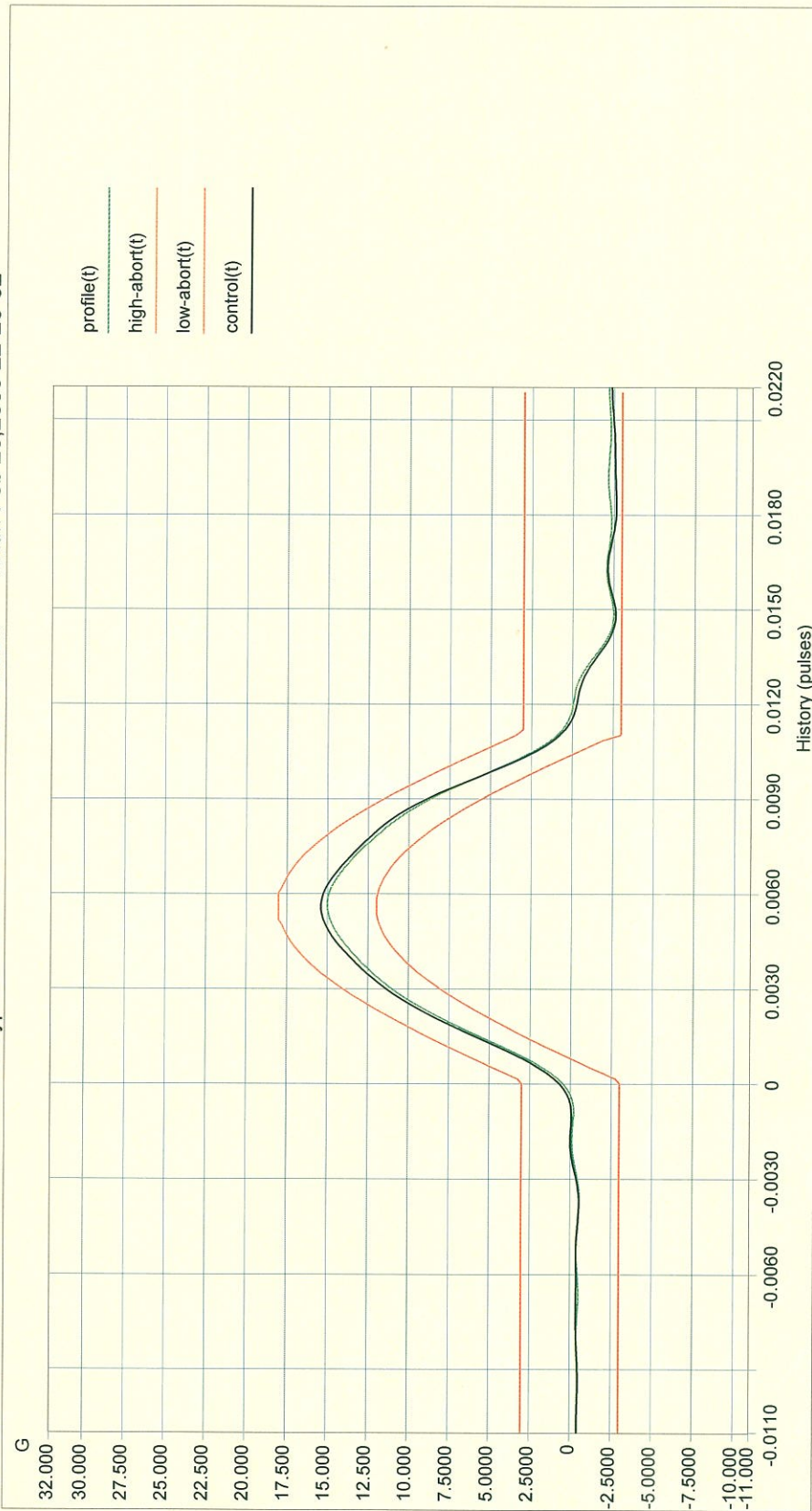
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms

Data saved at 10:22:58 PM, Thursday, February 26, 2009 Report created at 10:22:58 PM, Thursday, February 26, 2009

Axis -X

Project File Name: 15g 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 26, 2009 22-20-32



Level: 100 % Block Size: 2048 Elapsed Pulses: 14

Frame Time: 0.341333 Seconds Control Peak: 15.371710 G Control RMS: 2.094644 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0

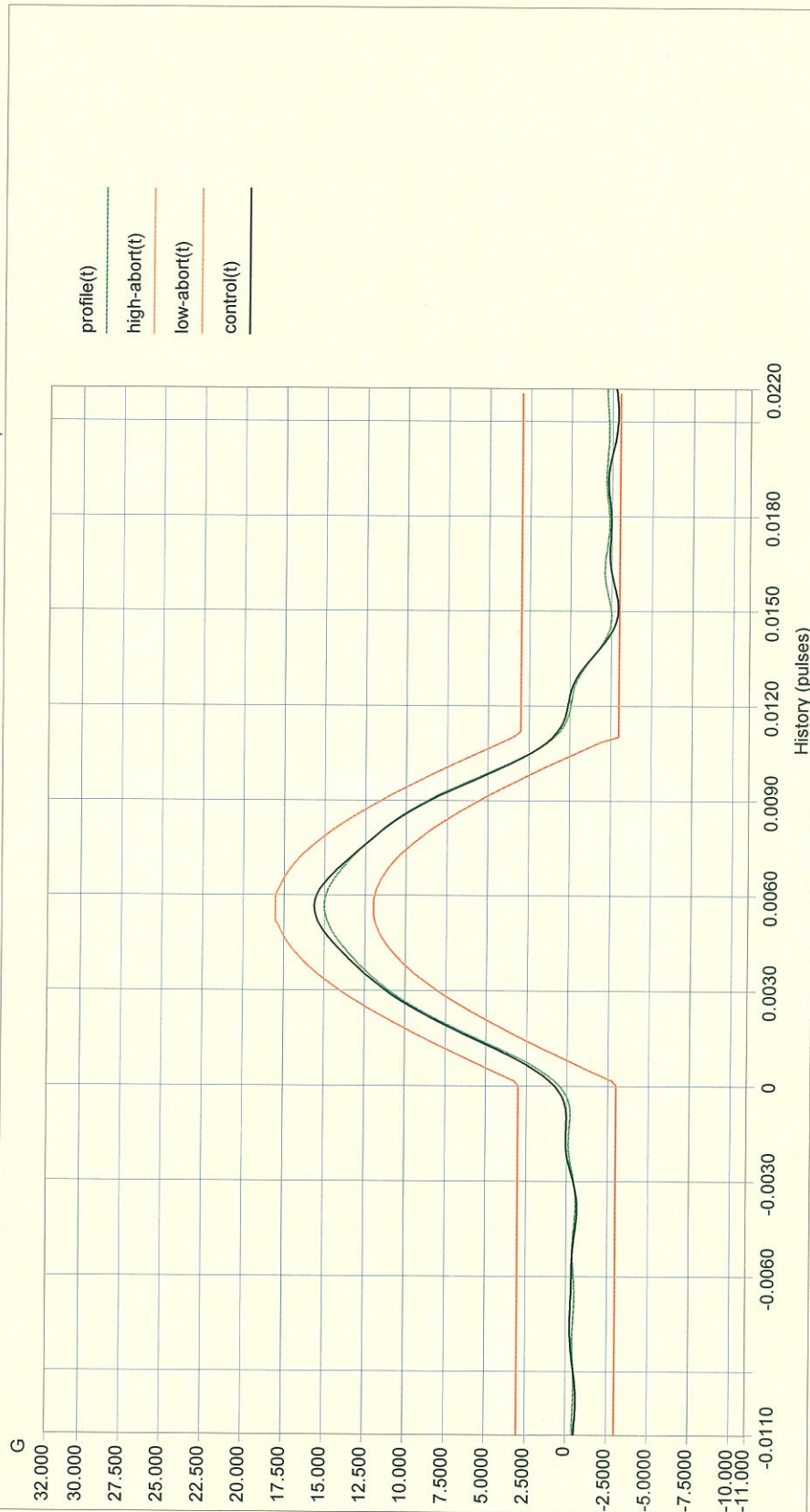
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms

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Axis Y

Project File Name: 15g 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: \Run Feb 26, 2009 22-29-49



Level: 100 % Block Size: 2048 Elapsed Pulses: 14

Frame Time: 0.341333 Seconds Control Peak: 15.607108 G Control RMS: 2.087964 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0

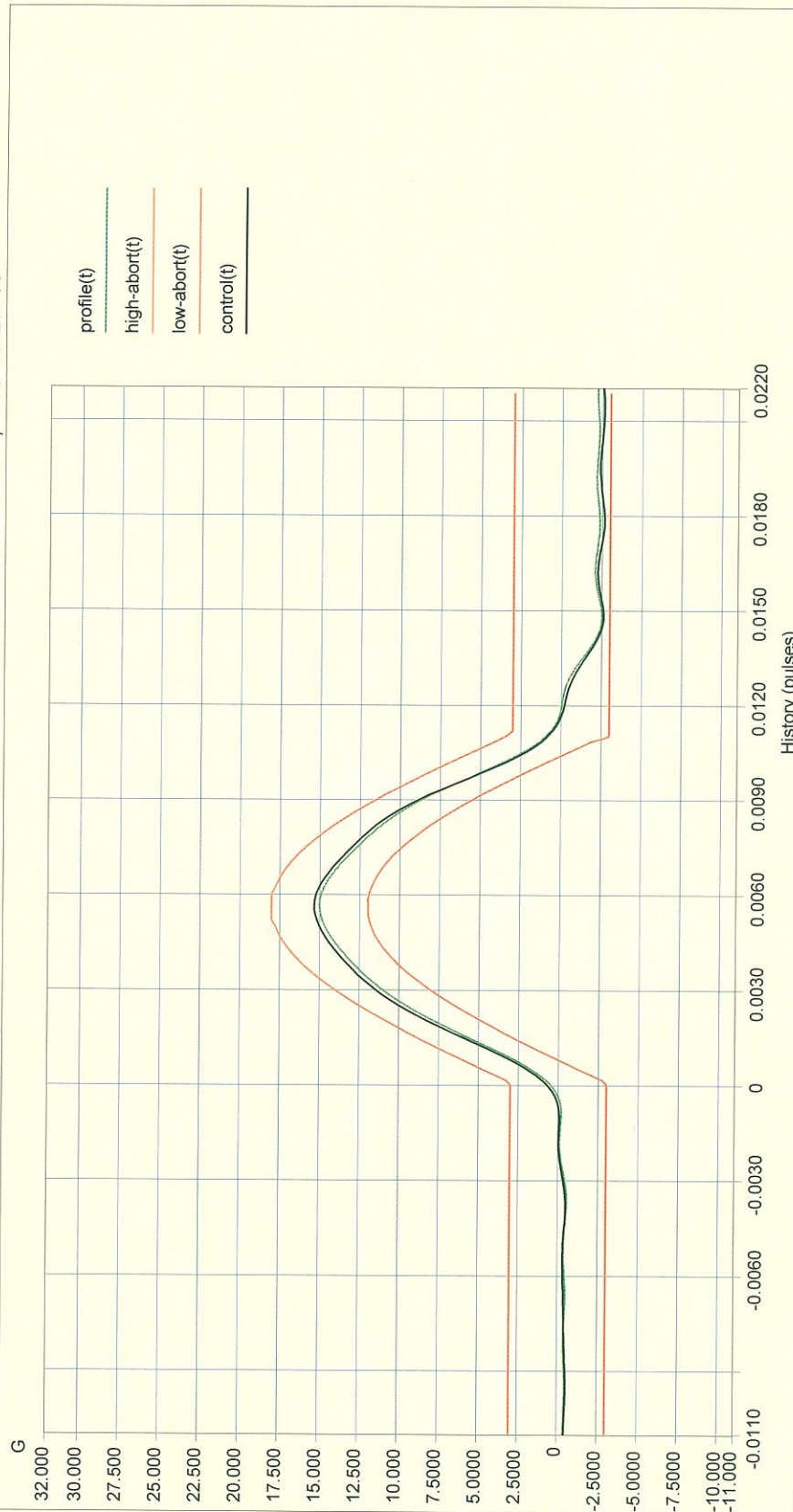
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms

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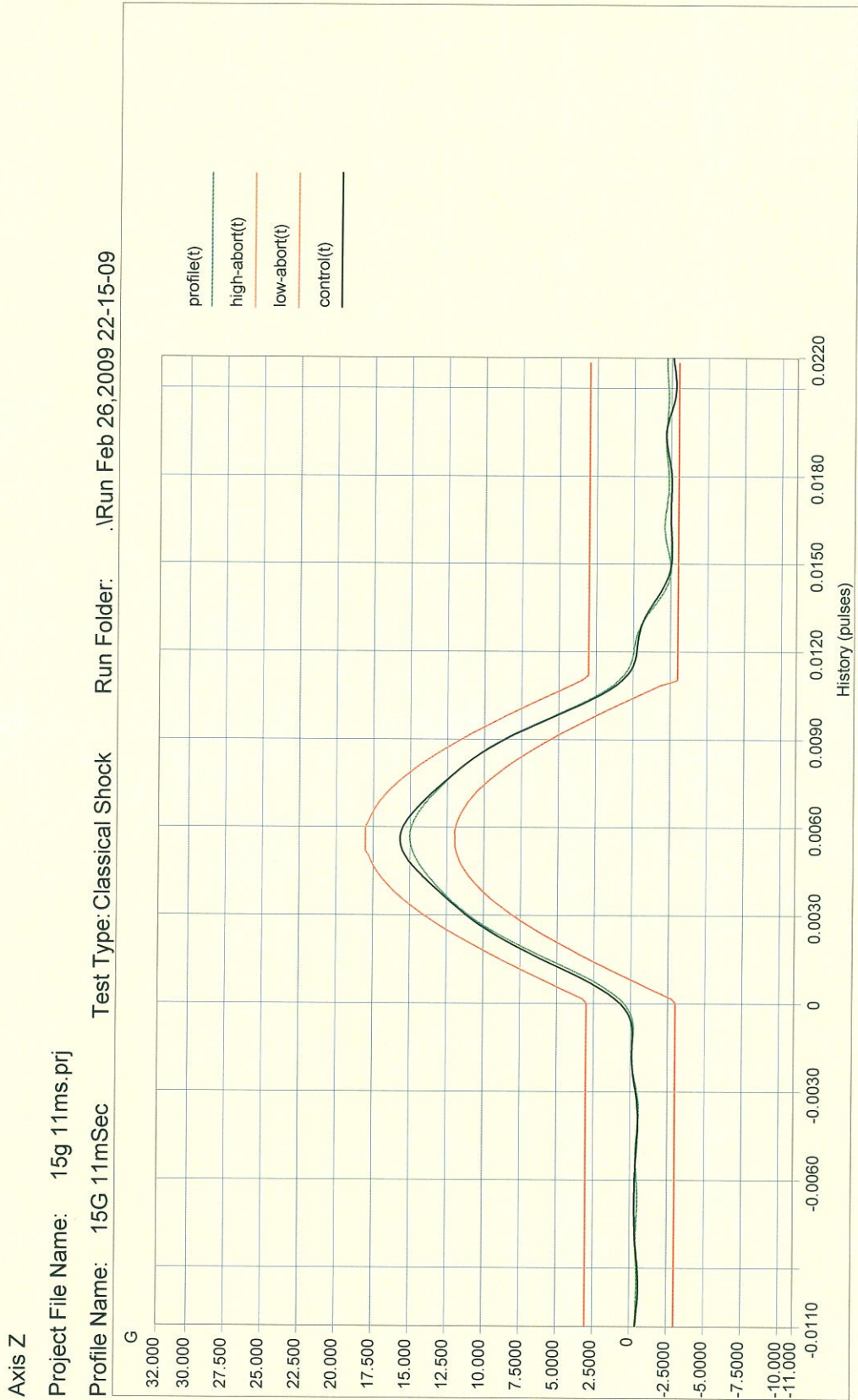
Axis -Y

Project File Name: 15g 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 26, 2009 22-27-41



Level: 100 % Block Size: 2048 Elapsed Pulses: 14
 Frame Time: 0.341333 Seconds Control Peak: 15.319783 G Control RMS: 2.095269 G Full Level Elapsed Pulses: 3
 dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms
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Level: 100 % Block Size: 2048 Elapsed Pulses: 14

Frame Time: 0.341333 Seconds Control Peak: 15.657404 G Control RMS: 2.090893 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0

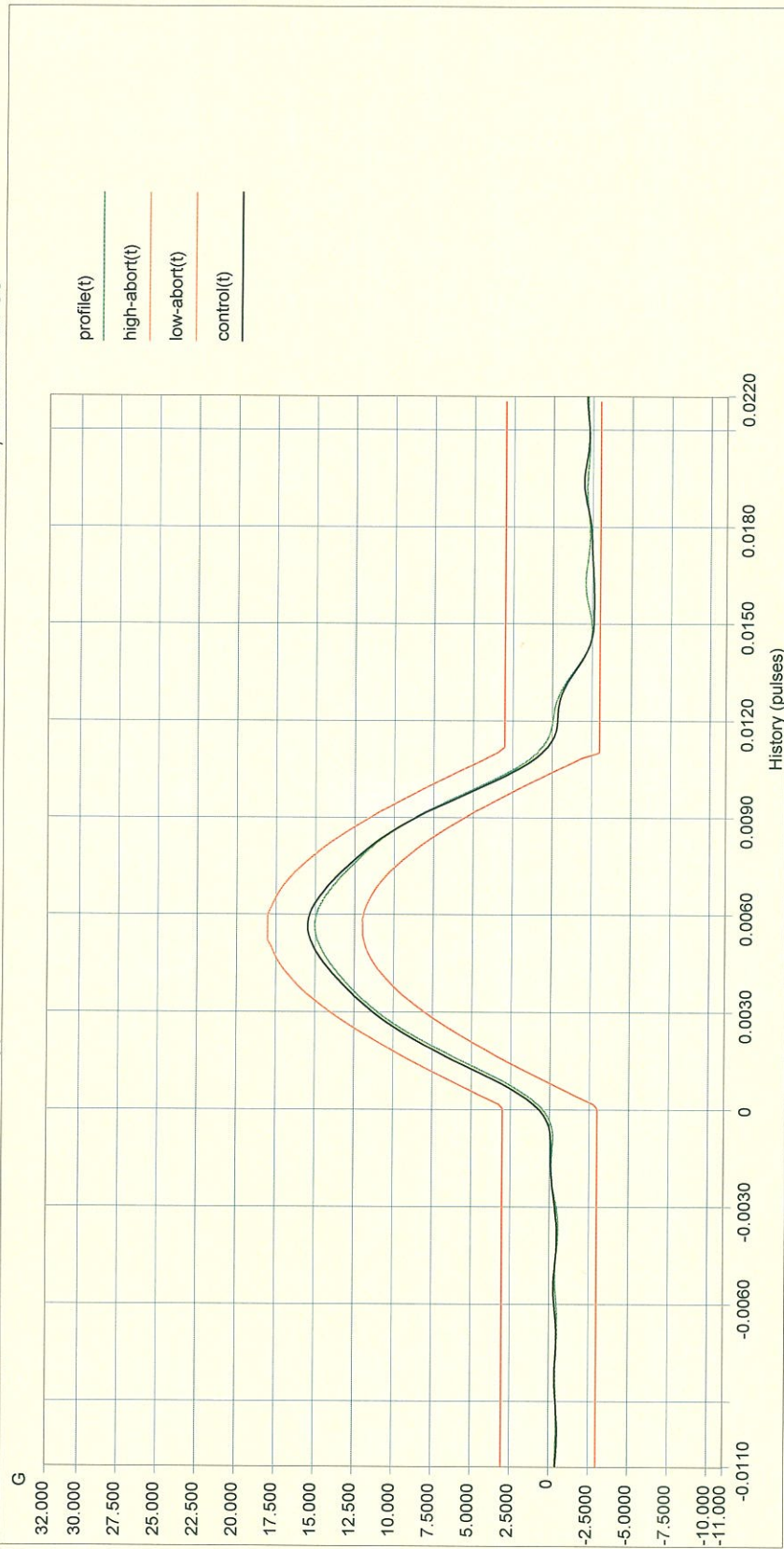
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms

Data saved at 10:15:34 PM, Thursday, February 26, 2009 Report created at 10:15:34 PM, Thursday, February 26, 2009

Axis -Z

Project File Name: 15g 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: \Run Feb 26, 2009 22-12-05



Level: 100 % Block Size: 2048 Elapsed Pulses: 14
 Frame Time: 0.341333 Seconds Control Peak: 15.447413 G Control RMS: 2.090939 G Full Level Elapsed Pulses: 3
 dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 2.016330 G Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms
 Data saved at 10:12:30 PM, Thursday, February 26, 2009 Report created at 10:13:06 PM, Thursday, February 26, 2009

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