

TESTING / INSPECTION REPORT

REPORT NO : ST-110325-4

COMPANY : AAEON Technology Inc.
ADDRESS : 5F, No.135, Lane 235, Pao Chiao Rd.
Hsin-Tien City, Taipei, Taiwan, R. O. C.
TEL : 886-2-8919-1234
FAX : 886-2-8919-1049
SPECIMEN : APC-5212 (with 2.5" SATA HDD)
DATE OF RECEIVED : 2011/03/26
DATE OF TESTED : 2011/03/26

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 11 pages, and no part of it may be abstracted or reproduced.

Test Engineer : <i>Yi Kwei Lan</i>	
Approval Signatory : <i>David Lee</i> <i>2011.4.1</i>	Laboratory Head : <i>Hsin Tai Chang</i>



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TESTING EQUIPMENT :

- 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
- 4.Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054783
- 5.Controller : DACTRON COMET USB, S/N:9478158
- 6.Control Accelerometer : WILCOXON RESEARCH, Model:784A, S/N:23116
B&K 4514-004 S/N:55096

TEST ENVIRONMENT :

- Temperature : 22.7°C (25±10°C)
- Relative Humidity : 57.8%RH (60±20% RH)

SPECIMEN :

- Model : APC-5212 (with 2.5" SATA HDD)
- Quantity : 1 unit

TEST SPECIFICATION :

- Wave Form : Half sine wave (Operating)
- Acceleration : 20 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

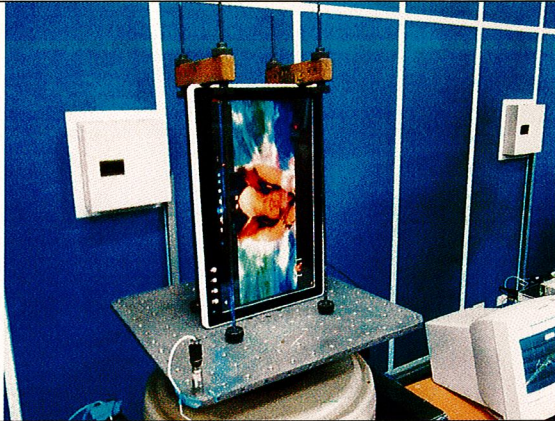
Before test



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Testing photos (Operating)

AXIS +X



AXIS -X



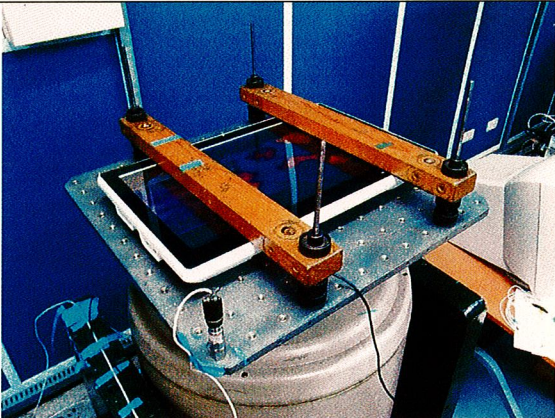
AXIS +Y



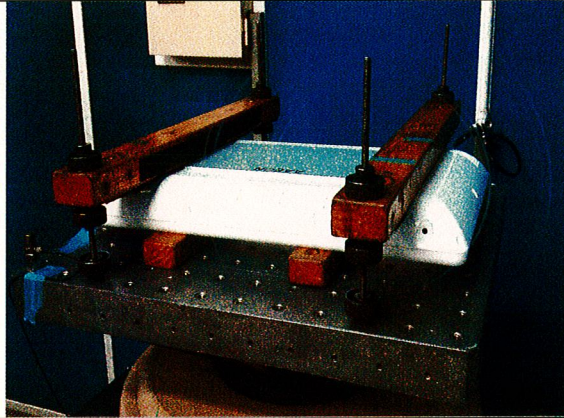
AXIS -Y



AXIS +Z



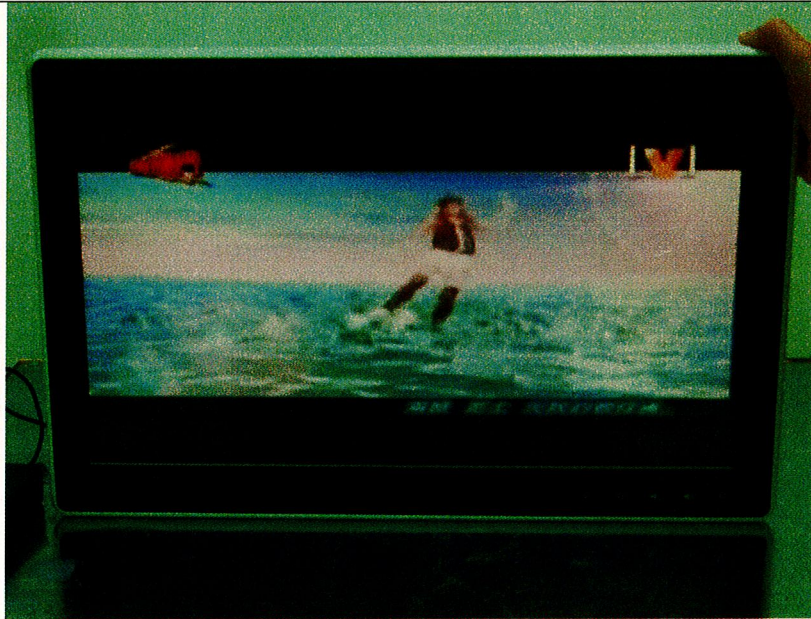
AXIS -Z



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Testing photos

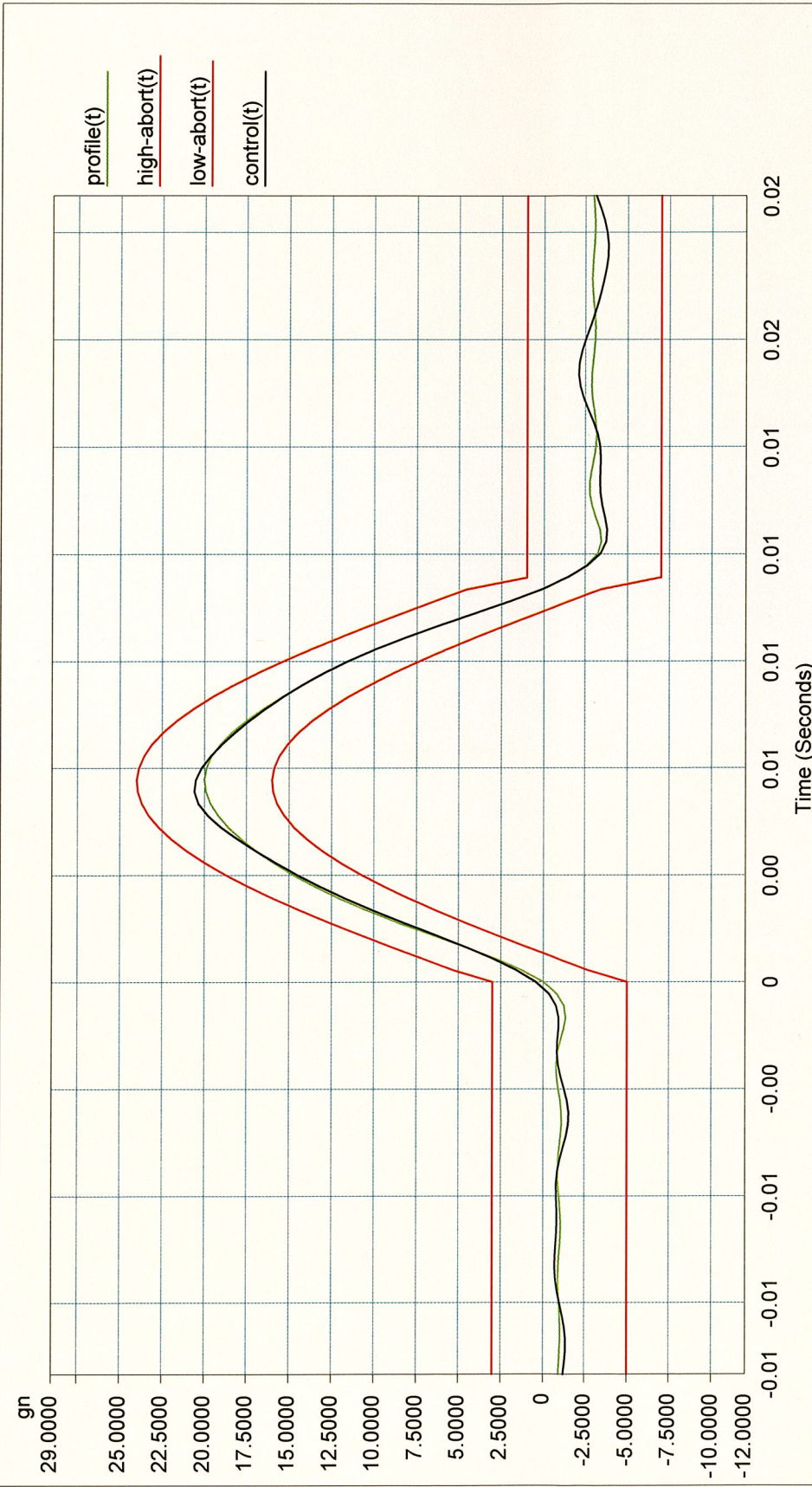
After test



+X Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Mar 24, 2011 16-17-10

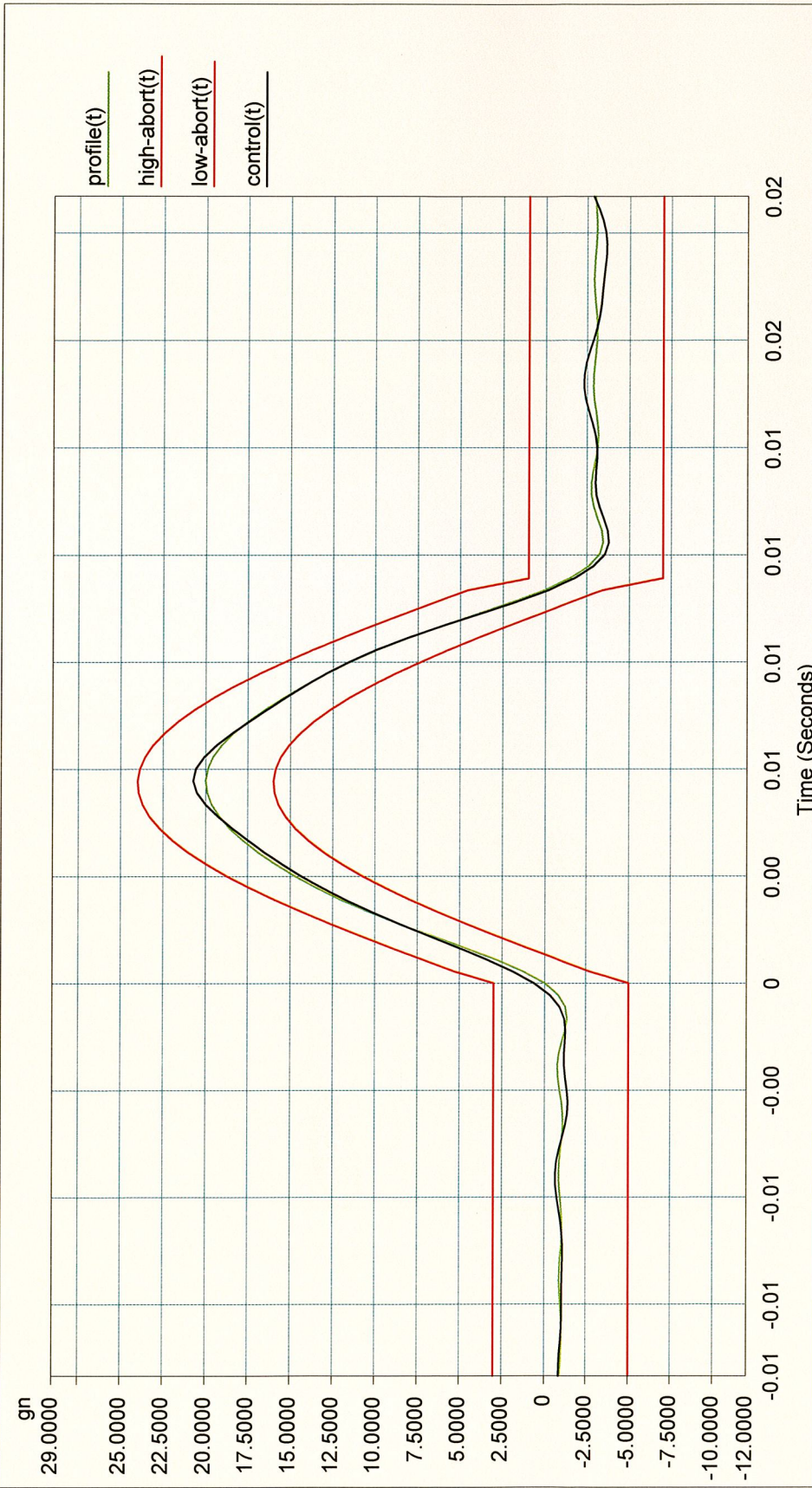


Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 0.682667 Seconds Control Peak: 20.594242 Control RMS: 2.078451 Full Level Elapsed Pulses: 3
 dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms

-X Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Mar 24, 2011 16-19-28

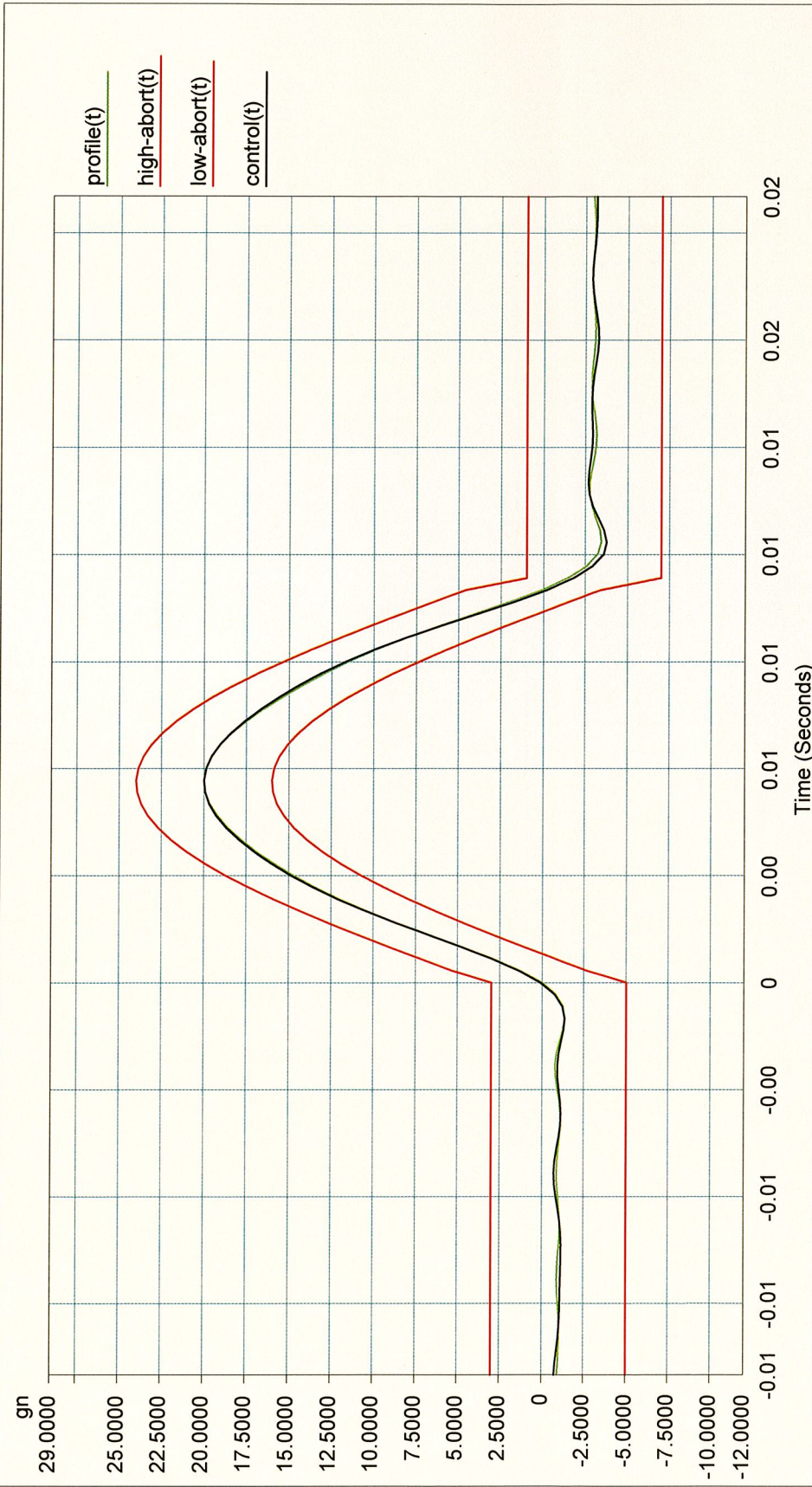


Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 0.682667 Seconds Control Peak: 20.733124 Control RMS: 2.077701 Full Level Elapsed Pulses: 3
 dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms

+Y Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .RunDefault Mar 24, 2011 16-11-25



Level: 100 % Block Size: 2048 Elapsed Pulses: 11

Frame Time: 0.682667 Seconds Control Peak: 19.989851 Control RMS: 2.072580 Full Level Elapsed Pulses: 3

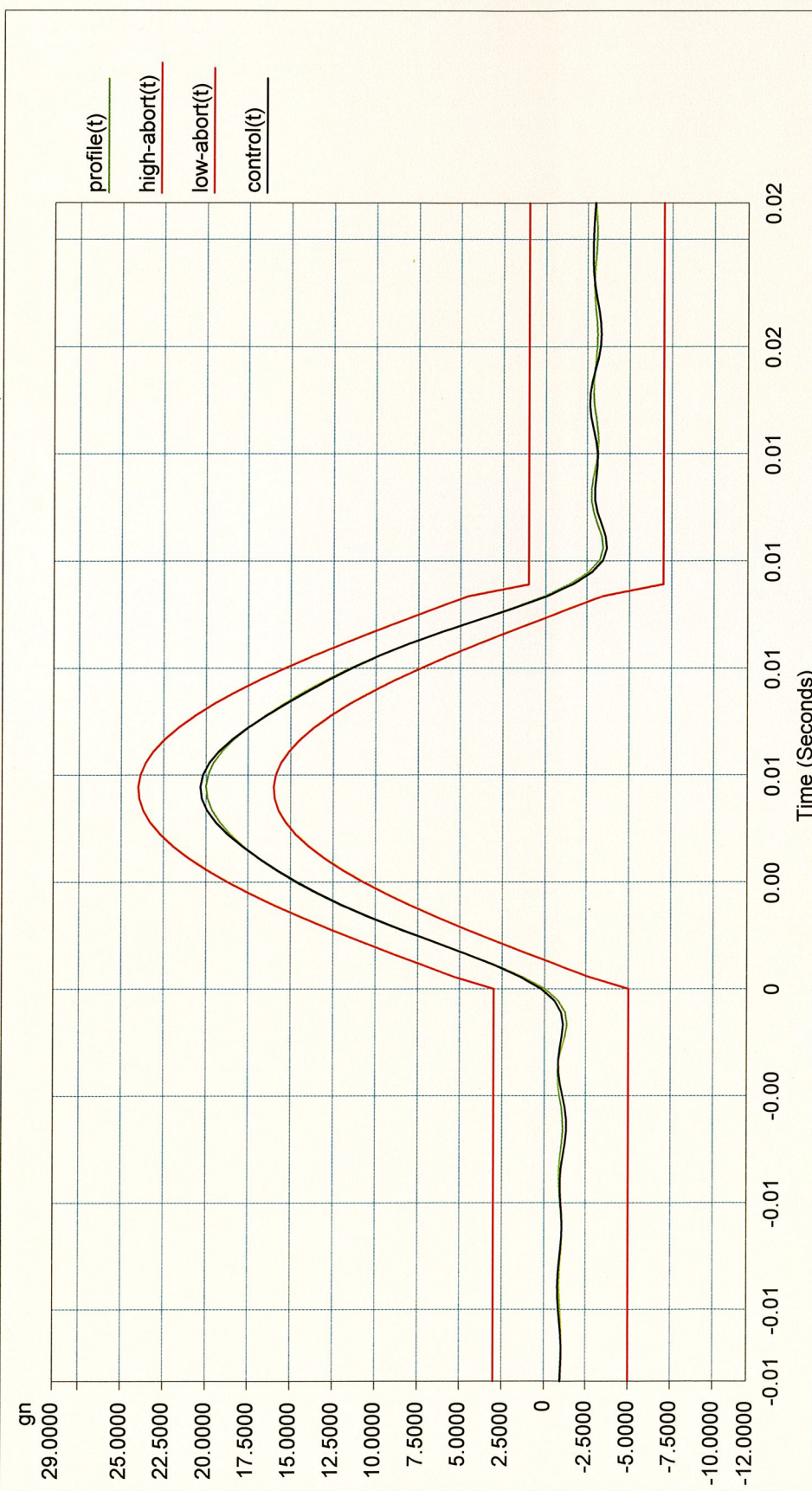
dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0

Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms

-Y Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Mar 24, 2011 16-13-32

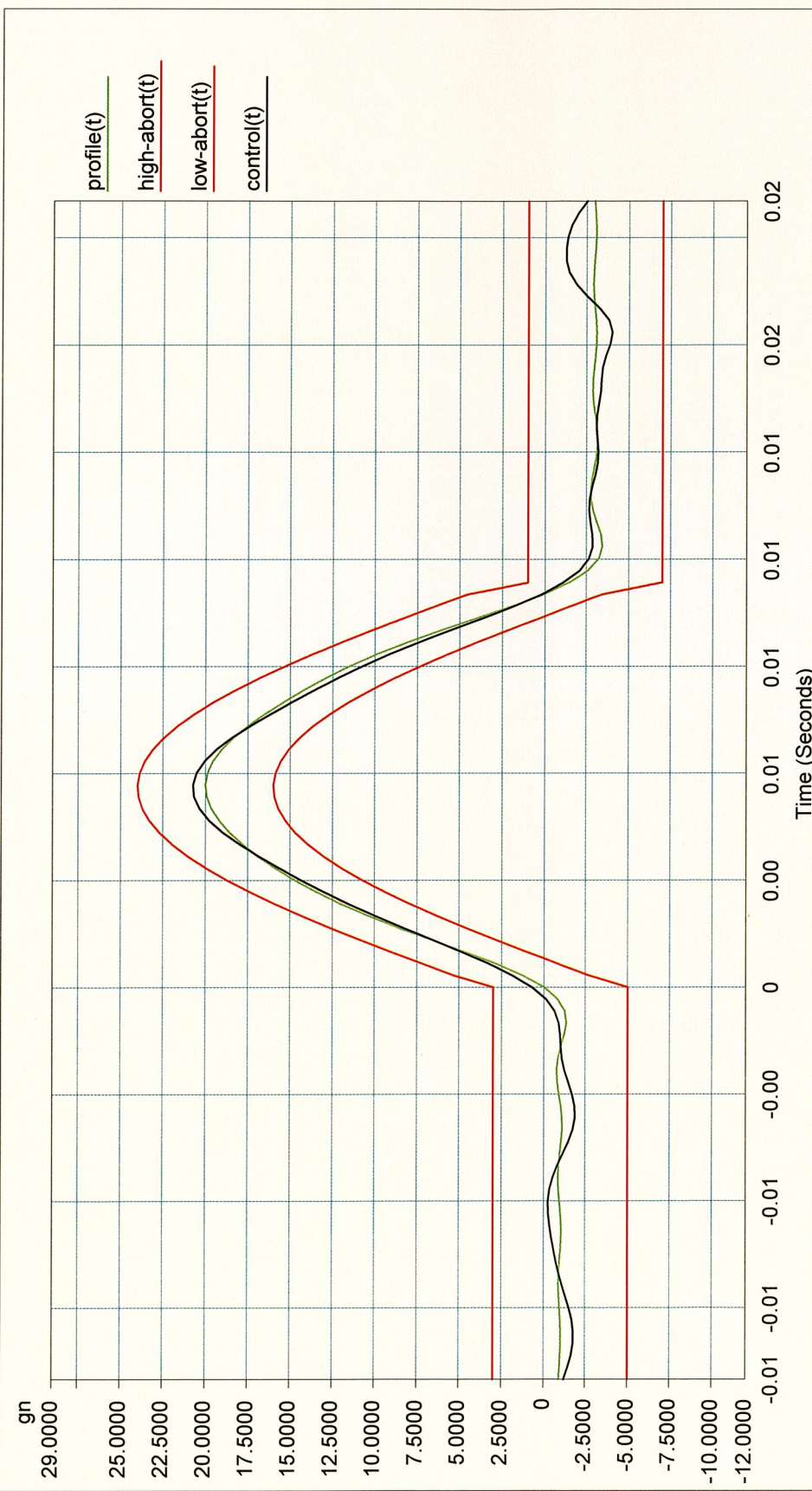


Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 0.682667 Seconds Control Peak: 20.337950 Control RMS: 2.072189 Full Level Elapsed Pulses: 3
 dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms

+Z Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Mar 24, 2011 16-05-48

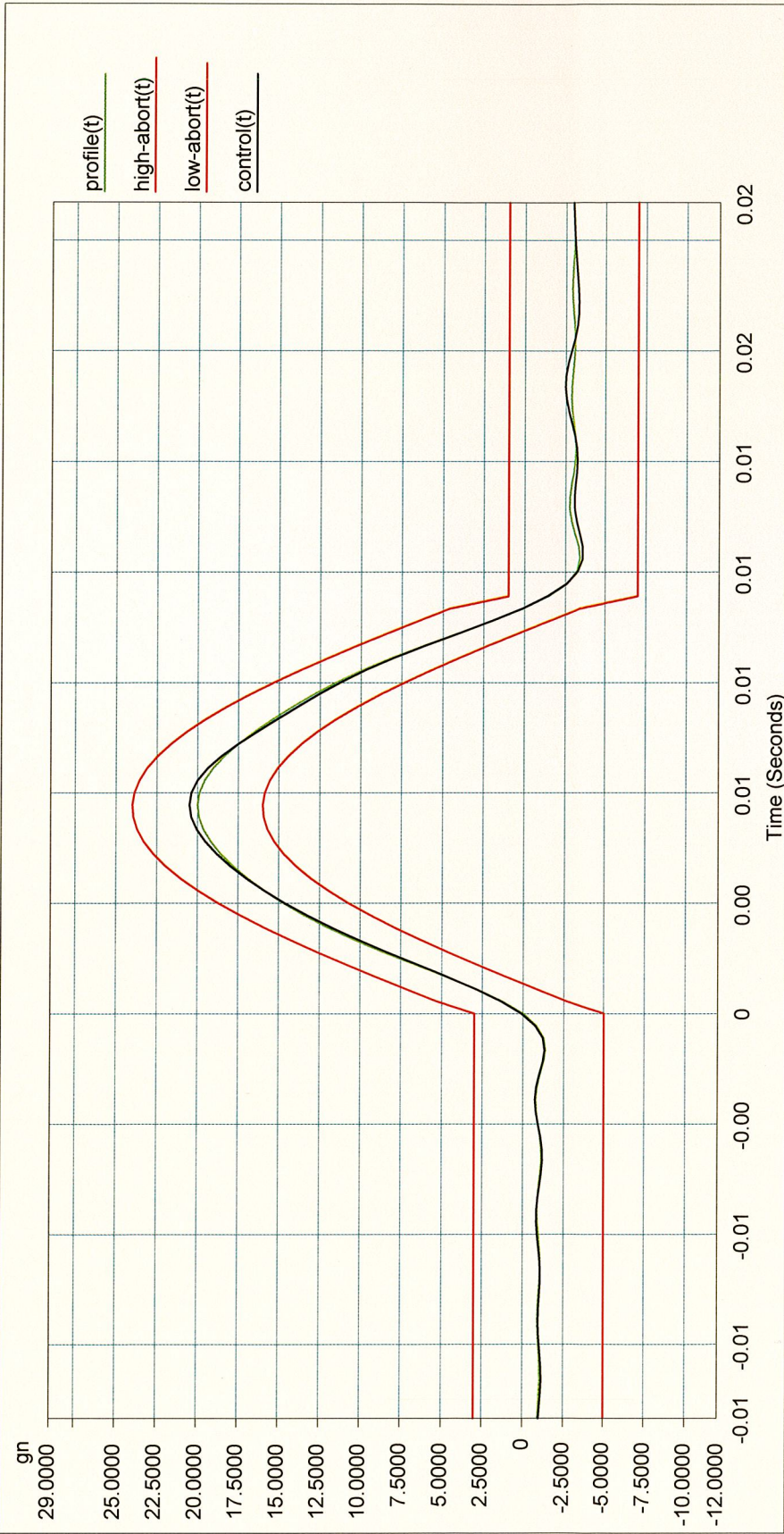


Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 0.682667 Seconds Control Peak: 20.729362 Control RMS: 2.093961 Full Level Elapsed Pulses: 3
 dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms

-Z Axis

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .RunDefault Mar 24, 2011 16-07-57



Level: 100 % Block Size: 2048 Elapsed Pulses: 11
 Frame Time: 0.682667 Seconds Control Peak: 20.504234 Control RMS: 2.074815 Full Level Elapsed Pulses: 3
 dT: 0.000333 Seconds Demand Peak: 20.000000 Demand RMS: 2.045216 Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 20.000000 Pulse Width: 11.000000 ms
-END-