

TESTING / INSPECTION REPORT

DATE : May 11, 2005
REPORT NO : ST-050513-1

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SPECIMEN : Onyx-173

TEST / INSPECTION ITEMS : Shock Test (See Page 2)

REMARKS :

- The results only apply to the device under test.
- This report is 10 pages, and no part of it may be abstracted or reproduced.
- Attached pages are controlling pulse of shock test.



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Approved by : <i>2005.5.13 David Lee</i>	Laboratory Head : <i>Chiping Chan</i>

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TESTING EQUIPMENT :

1. Shock Tester : KING DESIGN (KD-9363EM-1000F2K-50N120,
S/N : GUG02102091)
2. Controller : DACTRON (FRONT-End Box, S/N:7459933)
3. Control Accelerometer : Wilcoxon Research (WR-777 , S/N:4207)

TEST ENVIRONMENT :

- Temperature : $20 \pm 2^{\circ}\text{C}$
Humidity : $70 \pm 20\% \text{ RH}$

SPECIMEN :

- Model : Onyx-173
Quantity : 1 piece

SHOCK TEST SPECIFICATION :

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

TEST RESULT :

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

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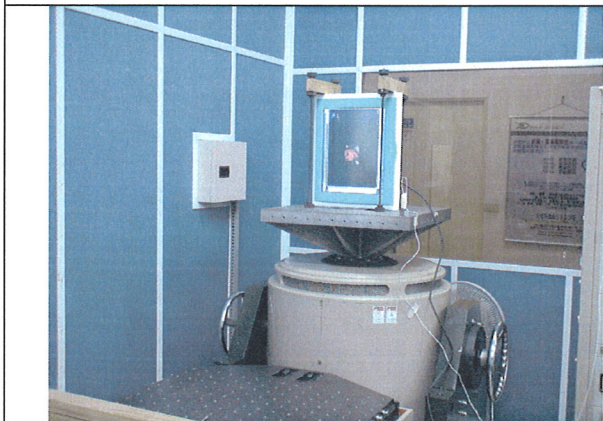
Testing photos



TESTING / INSPECTION REPORT

Testing photos

AXIS X



AXIS -X



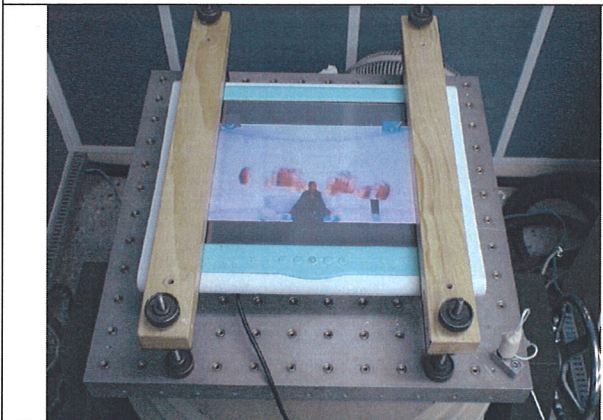
AXIS Y



AXIS -Y



AXIS Z



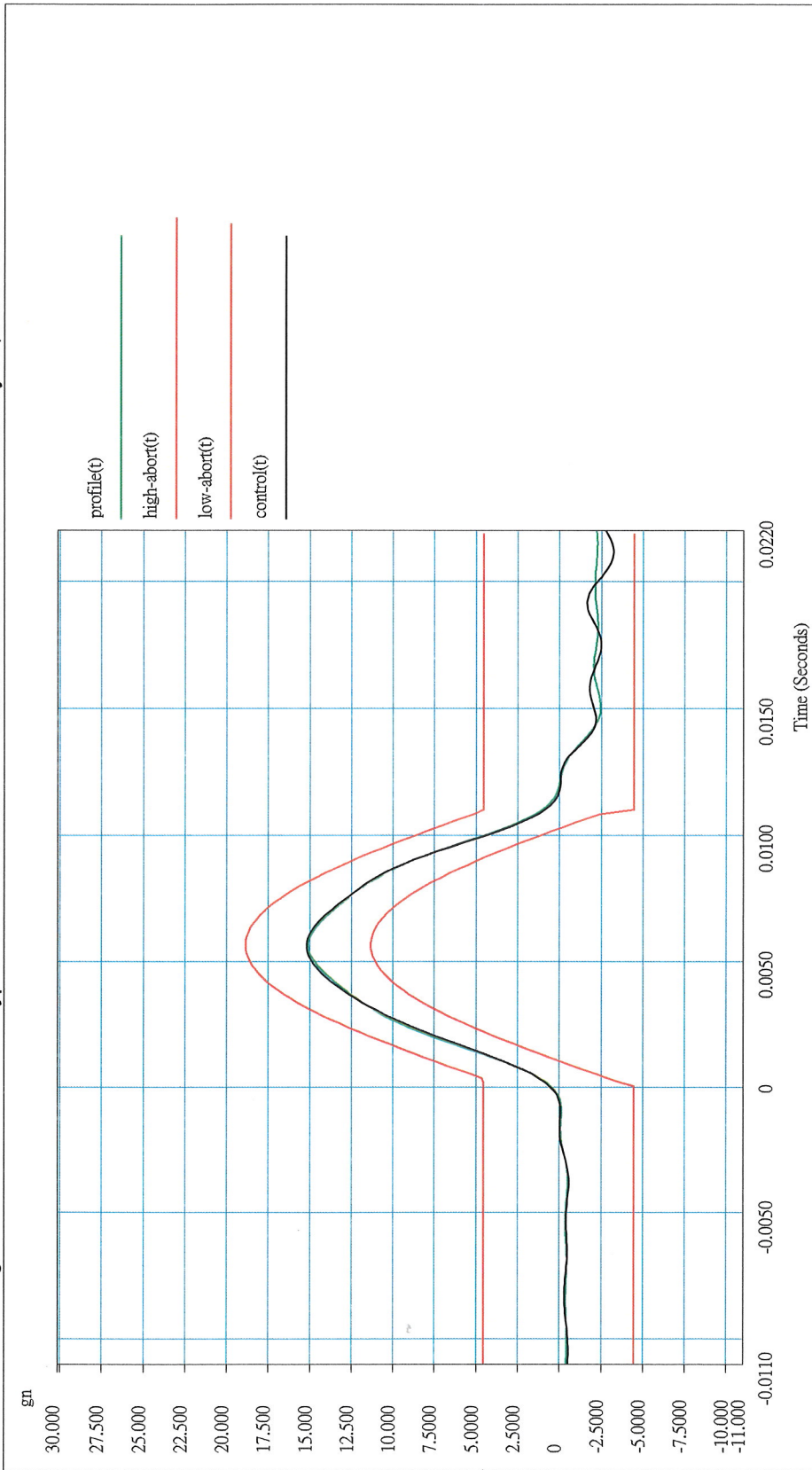
AXIS -Z



Axis X

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault May 05,2005 10-36-55



Level: 100 % Block Size: 4096 Elapsed Pulses: 10

Frame Time: 0.682667 Seconds Control Peak: 15.102158 gn Control RMS: 1.492341 gn Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

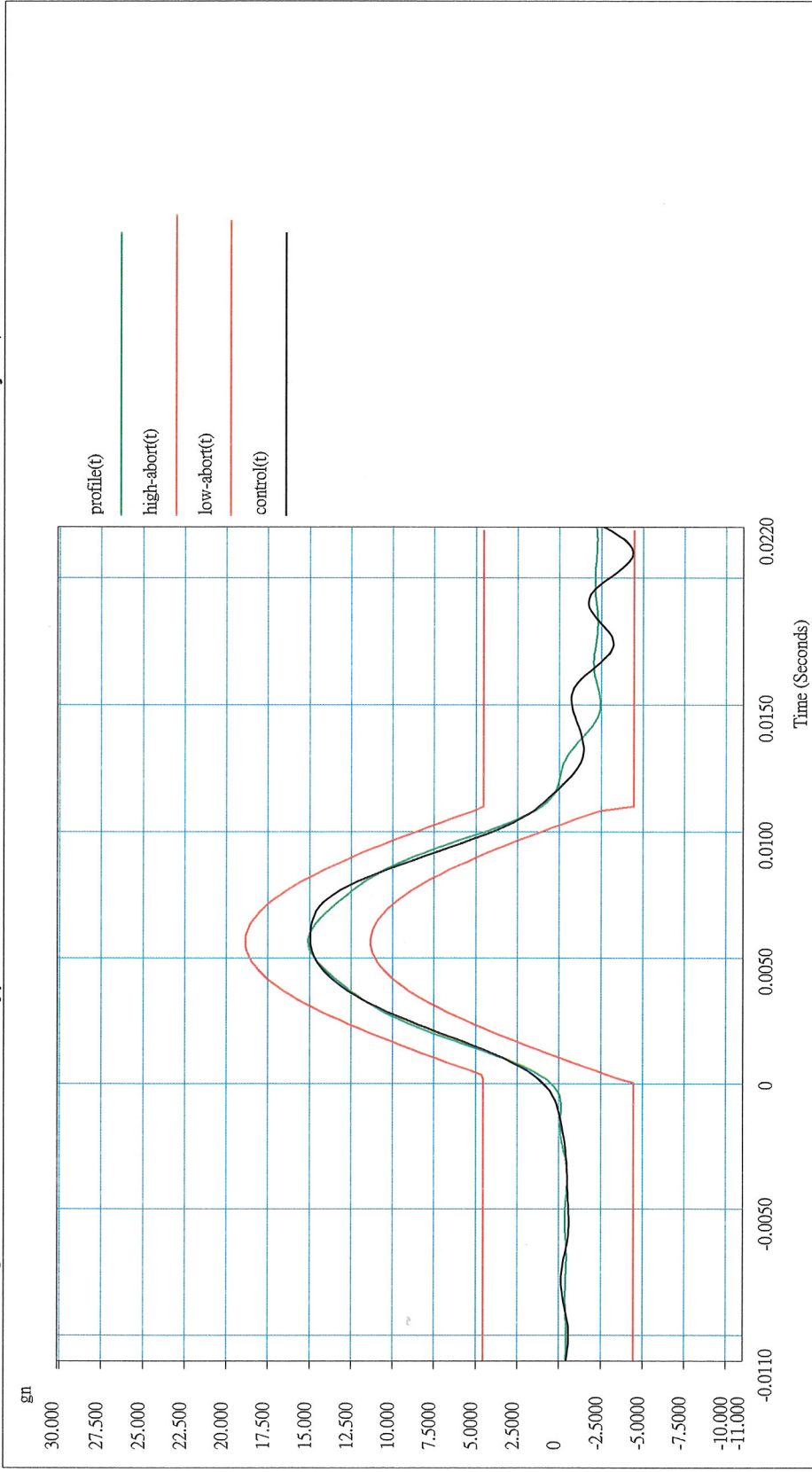
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 10:37:16 AM, Thursday, May 05, 2005 Report created at 10:37:17 AM, Thursday, May 5, 2005

Axis -X

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .\RunDefault May 05,2005 10-41-16



Level: 100 % Block Size: 4096 Elapsed Pulses:10

Frame Time: 0.682667 Seconds Control Peak: 14.878335 gn Control RMS: 1.500881 gn Full Level Elapsed Pulses: 3

dt: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

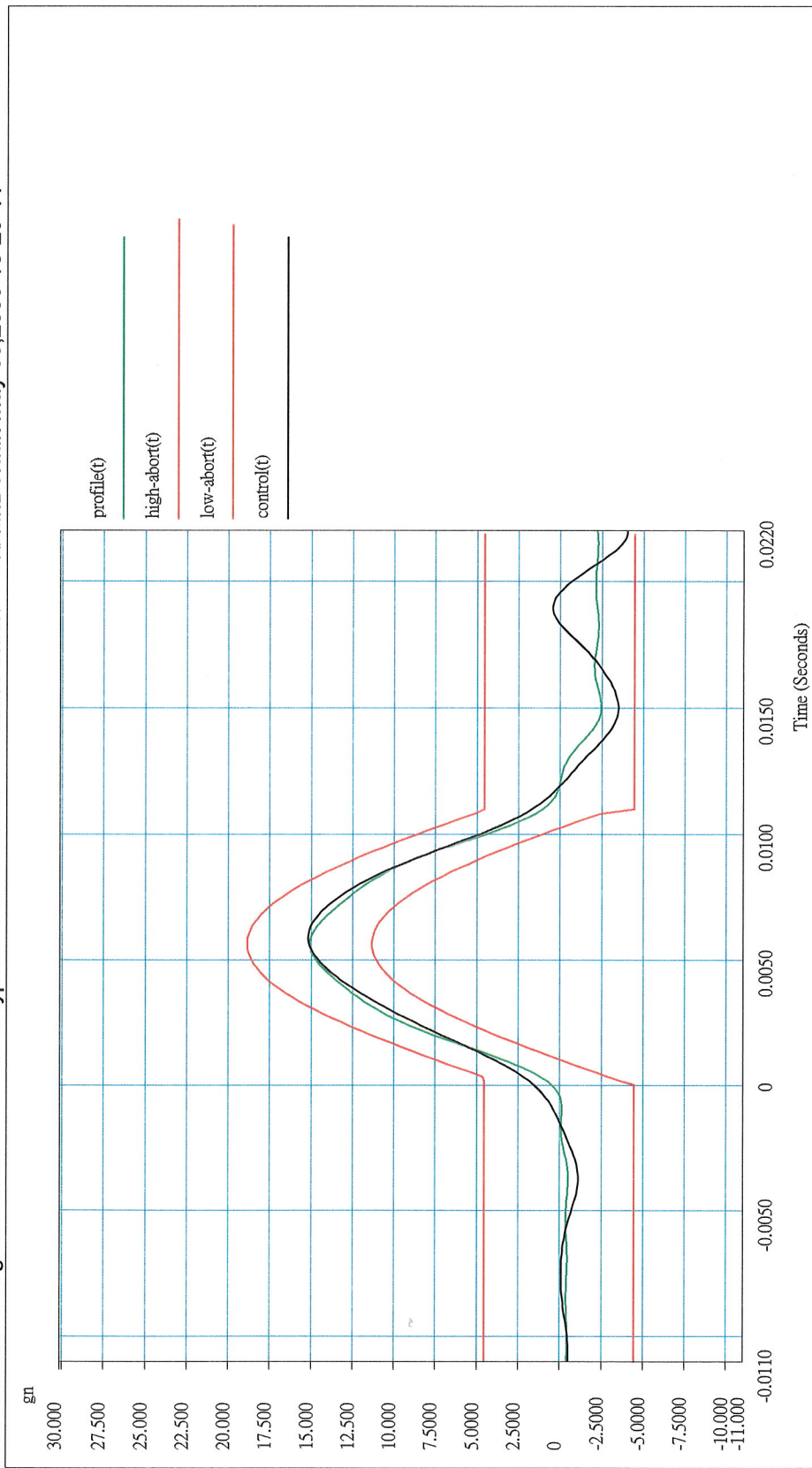
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 10:41:37 AM, Thursday, May 05, 2005 Report created at 10:41:38 AM, Thursday, May 5, 2005

Axis Y

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault May 05, 2005 10-29-11



Level: 100 % Block Size: 4096 Elapsed Pulses: 10

Frame Time: 0.682667 Seconds Control Peak: 15.089984 gn Control RMS: 1.507144 gn Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

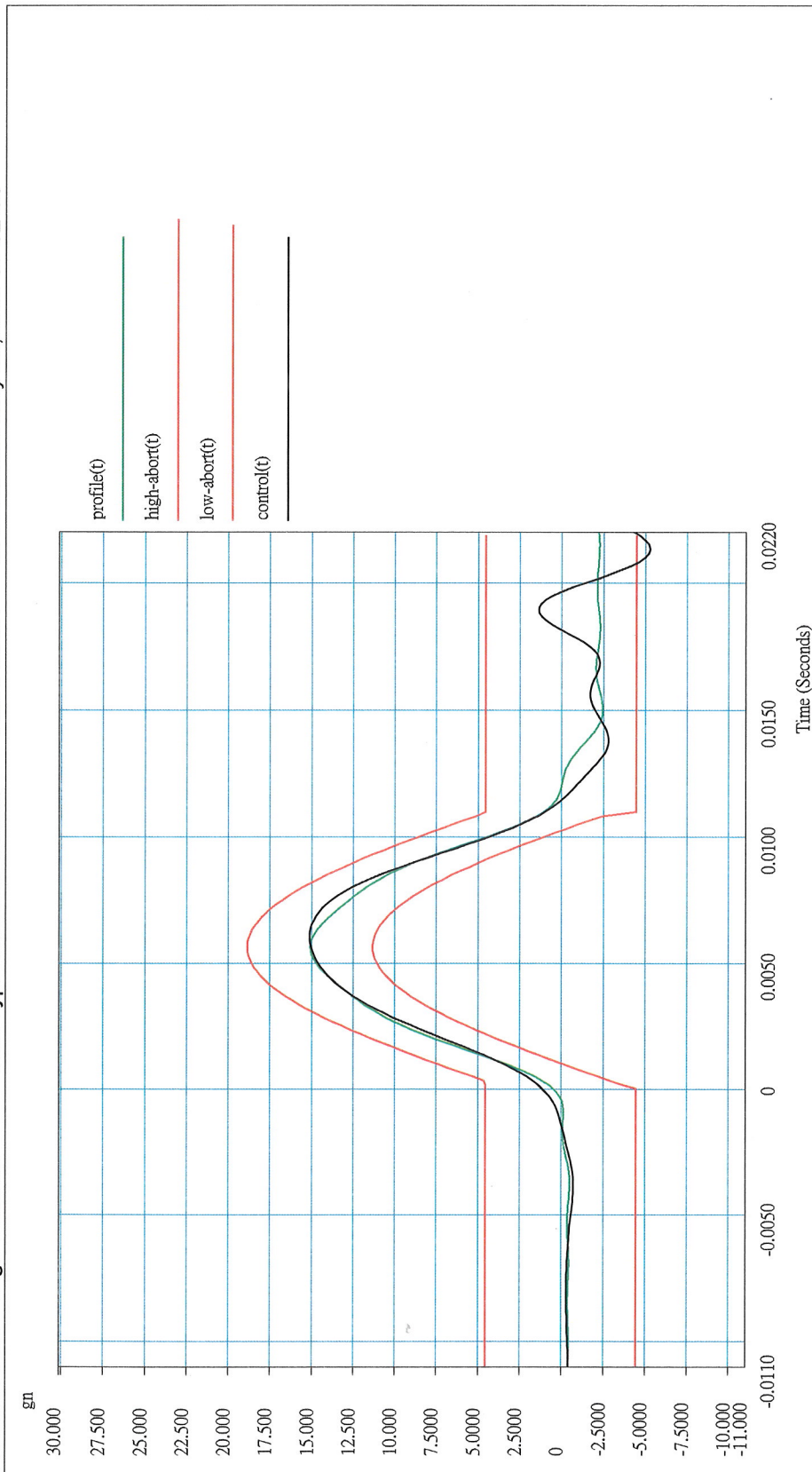
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 10:29:46 AM, Thursday, May 05, 2005 Report created at 10:29:47 AM, Thursday, May 5, 2005

Axis -Y

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault May 05,2005 10-32-31



Level: 100 % Block Size: 4096 Elapsed Pulses: 10

Frame Time: 0.682667 Seconds Control Peak: 15.045309 gn Control RMS: 1.521089 gn Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

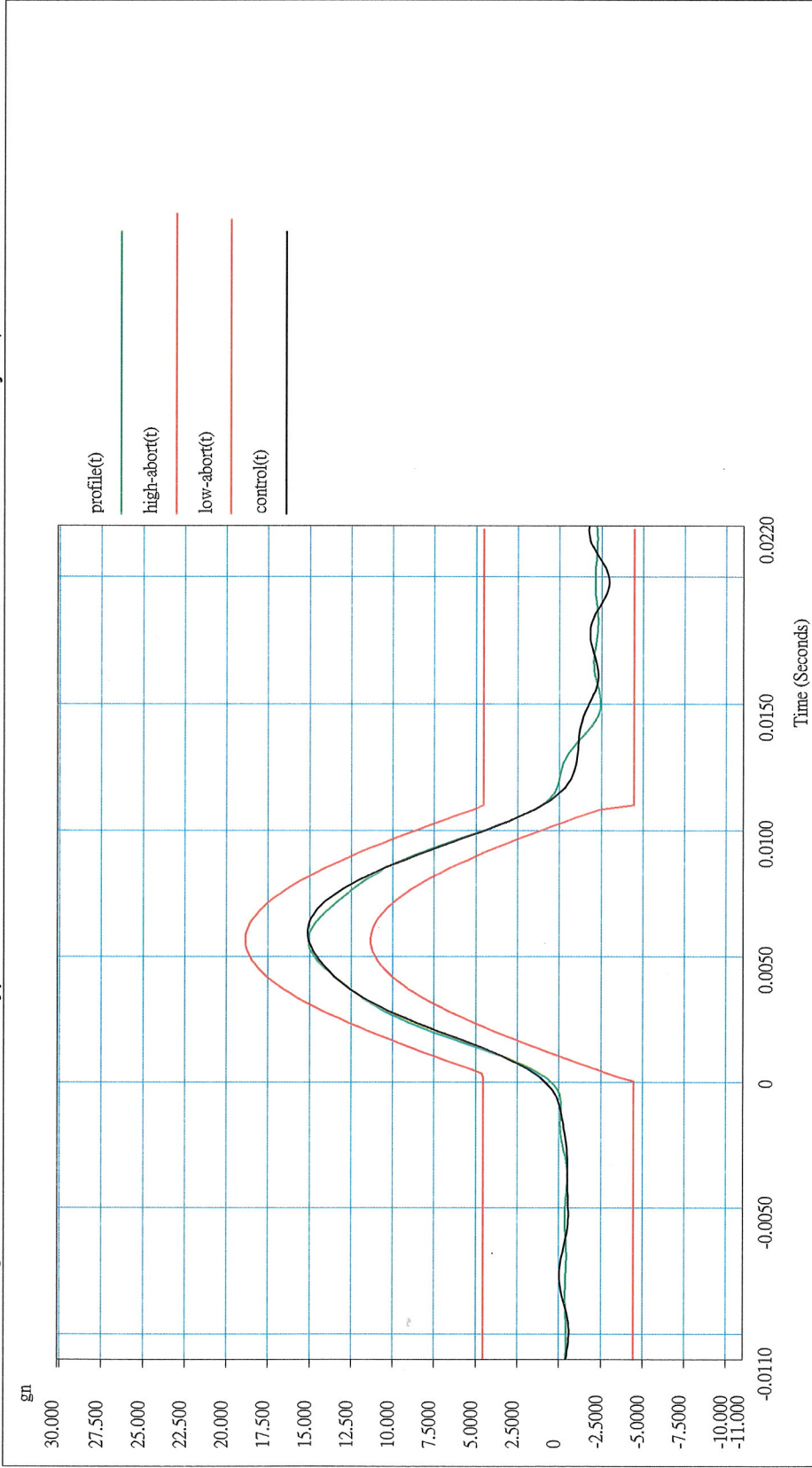
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 10:33:02 AM, Thursday, May 05, 2005 Report created at 10:33:03 AM, Thursday, May 5, 2005

Axis Z

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault May 05,2005 10-18-20



Level: 100 % Block Size: 4096 Elapsed Pulses: 10

Frame Time: 0.682667 Seconds Control Peak: 15.040650 gn Control RMS: 1.497107 gn Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

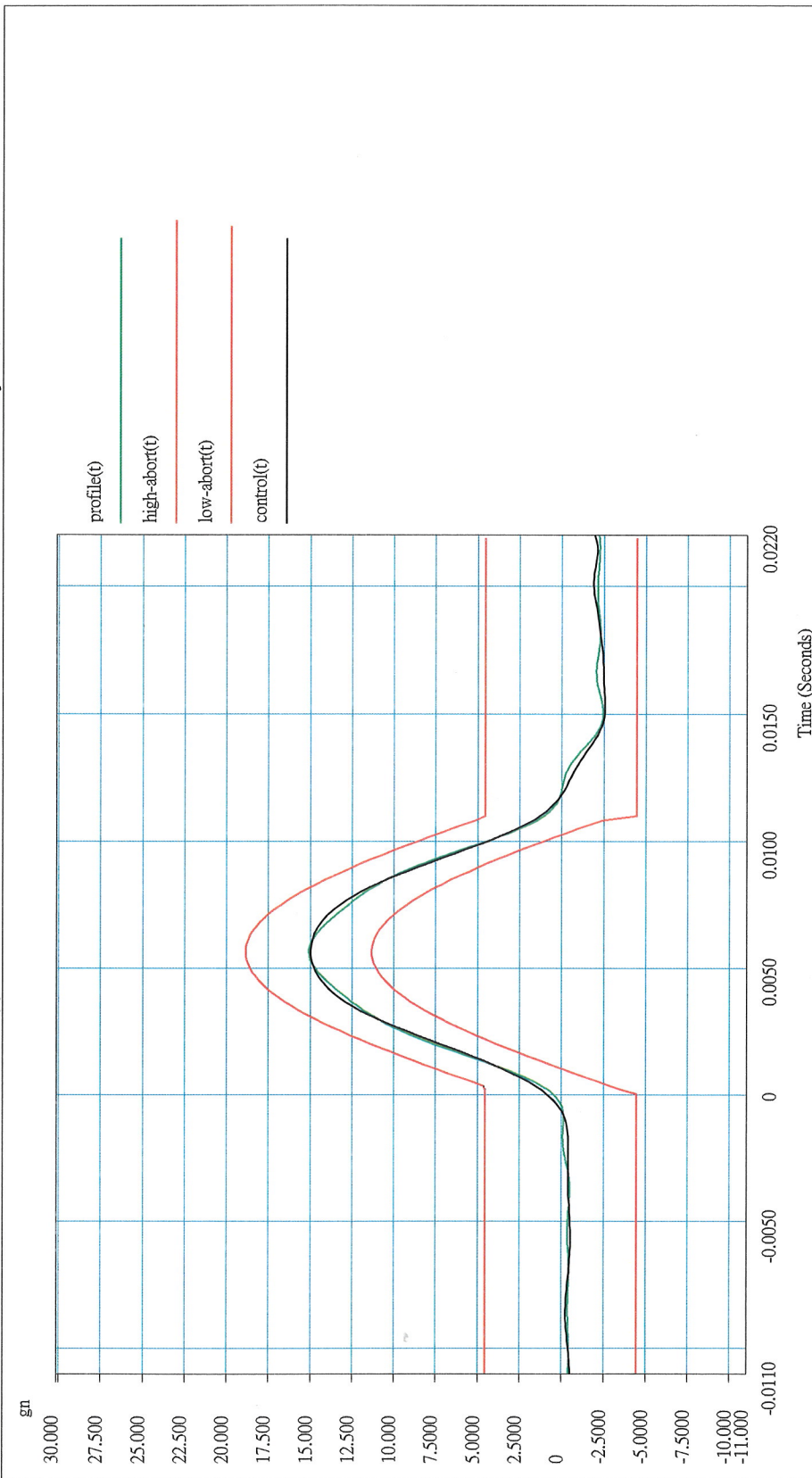
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 10:18:40 AM, Thursday, May 05, 2005 Report created at 10:18:41 AM, Thursday, May 5, 2005

Axis -Z

Project File Name: 研揚 11ms 15g (Operation).prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: \RunDefault May 05,2005 10-21-37



Level: 100 % Block Size: 4096 Elapsed Pulses: 10

Frame Time: 0.682667 Seconds Control Peak: 14.900645 gn Control RMS: 1.498137 gn Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.476277 gn Remaining Pulses: 0

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

Data saved at 10:22:18 AM, Thursday, May 05, 2005 Report created at 10:22:19 AM, Thursday, May 5, 2005