

TESTING / INSPECTION REPORT

DATE : August 27, 2004
REPORT NO : ST-040827-5

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SPECIMEN : AEC-6830

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



REMARKS :

- The results only apply to the device under test.
- This report is 18 pages, and no part of it may be abstracted or reproduced.
- Attached pages are controlling pulse of shock test.

Test Engineer : <i>Ken Chuan Chin</i>	
Approved by : <i>David Lee</i>	Laboratory Head : <i>Dennis Ting</i>

TESTING / INSPECTION REPORT

TESTING EQUIPMENT :

- | | |
|--------------------------|--|
| 1. Shock Tester | : KING DESIGN (KD-9363-600F2K-50N120,
S/N: KDS11054986) |
| 2. Controller | : DACTRON (FRONT-End Box, S/N: 4529465) |
| 3. Control Accelerometer | : Wilcoxon Research (WR-777 , S/N:3425) |
| 4. Shock Testing System | : (KD-DP-1200-60, S/N:KDS11054983) |
| 5. Controller | : (KD-1200-03C, S/N:KD674) |
| 6. Accelerometer | : (B&K 4398, S/N:2209044) |

TEST ENVIRONMENT :

- | | |
|-------------|-------------|
| Temperature | : 24±2°C |
| Humidity | : 70±20% RH |

SPECIMEN :

- | | |
|----------|----------------------|
| Model | : HDD / CFD |
| Quantity | : Each model 1 piece |

SHOCK TEST SPECIFICATION :

- | | |
|-----------------|---|
| (1) Wave Form | : Half sine wave —1 piece HDD (Operation) |
| Acceleration | : 15 g |
| Duration Time | : 11 ms |
| No. of Shock | : Each axis 3 times |
| Shock Direction | : ±X, ±Y, ±Z axis |

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SHOCK TEST SPECIFICATION :

(2) Wave Form	: Half sine wave —1 piece CFD (Non-Operation)
Acceleration	: 100 g
Duration Time	: 11 ms
No. of Shock	: Each axis 1 time
Shock Direction	: $\pm X$, $\pm Y$, $\pm Z$ axis

TEST RESULT :

Appearance check : No damage

Function check : Normal (See Page 4, 6)

TESTING / INSPECTION REPORT

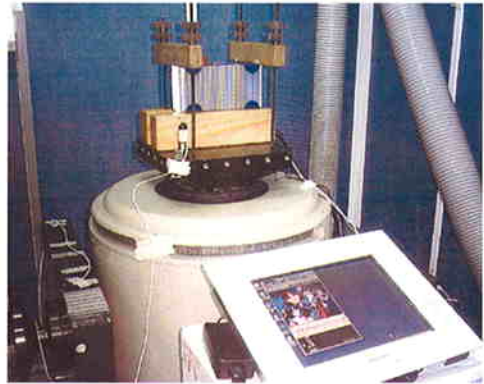
Testing photos

HDD (Operation)

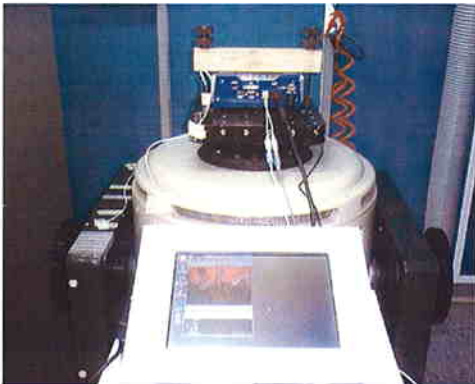
AXIS $\pm X$



AXIS $\pm Y$



AXIS $\pm Z$

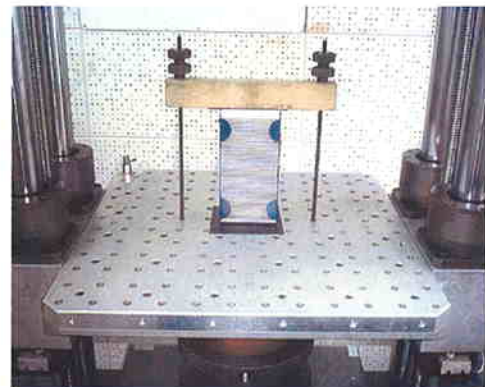
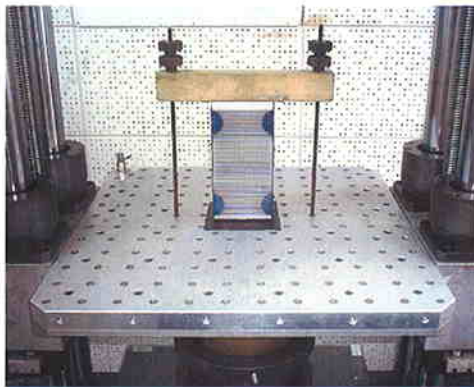


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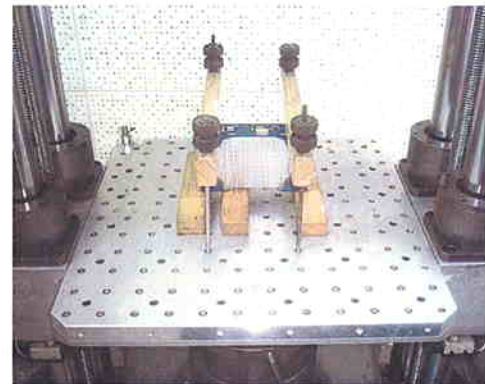
Testing photos

CFD (Non-Operation)

AXIS $\pm X$



AXIS $\pm Y$



AXIS $\pm Z$



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Testing photos

After test

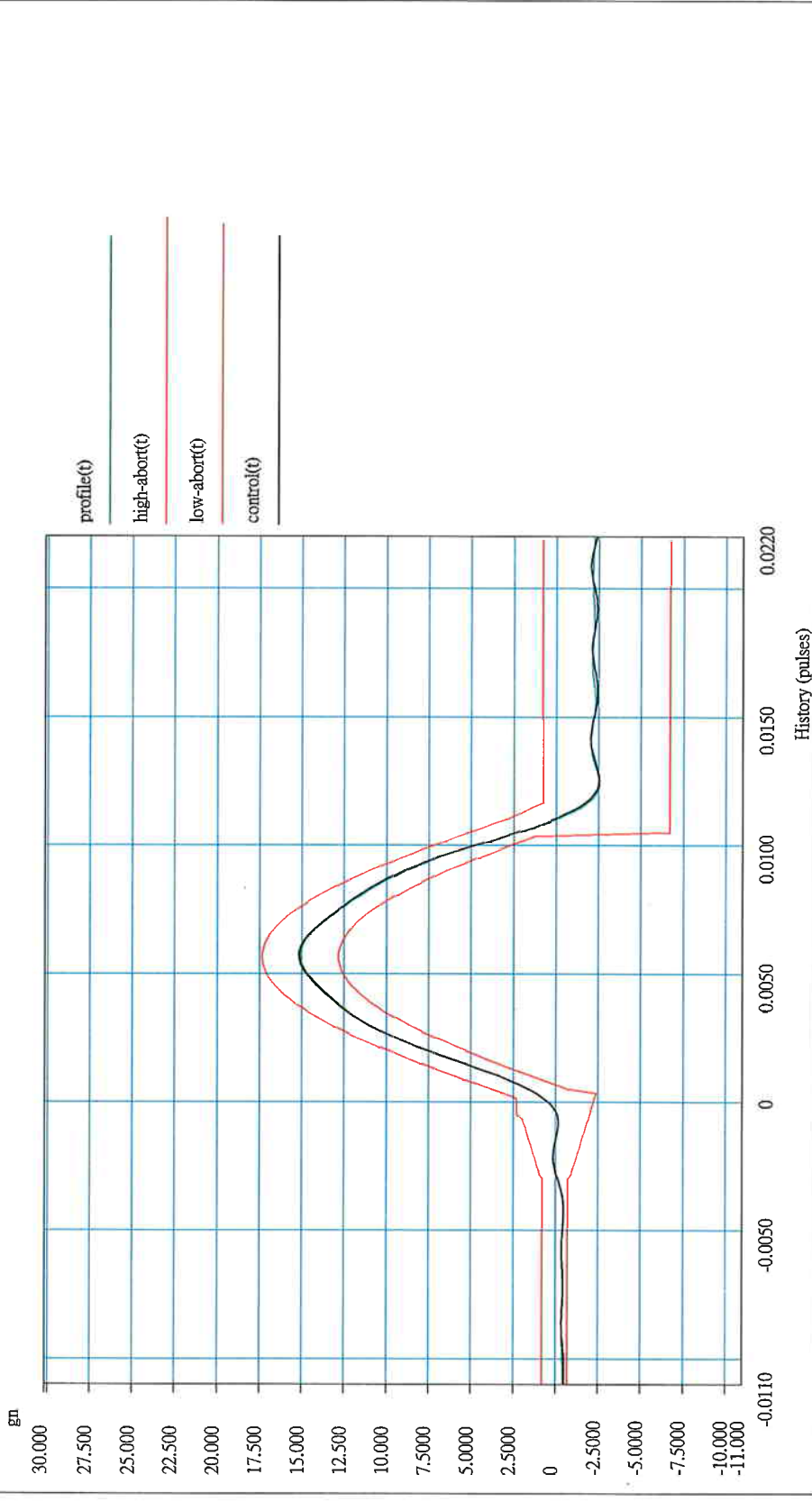
CFD (Non-Operation)



Axis X HDD (Operation)

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .RunDefault Aug 27,2004 10-20-58

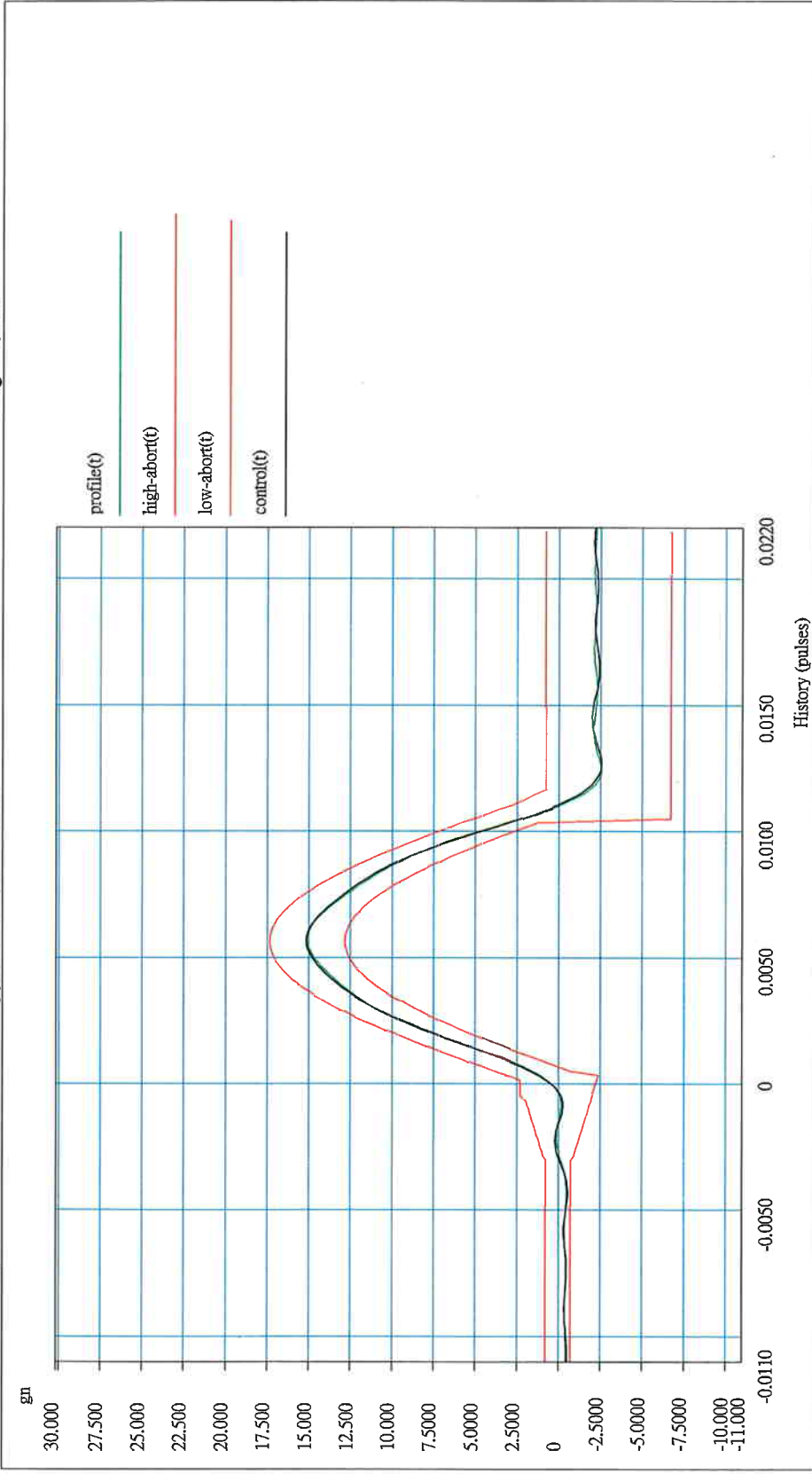


Level: 100 % Block Size: 4096 Elapsed Pulses:10
Frame Time: 0.682667 Seconds Control Peak: 15.101241 gn Control RMS: 1.496475 gn Full Level Elapsed Pulses: 3
dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
Data saved at 10:21:16 AM, Friday, August 27, 2004 Report created at 10:21:17 AM, Friday, August 27, 2004

Axis -X HDD (Operation)

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .RunDefault Aug 27, 2004 10:23:49

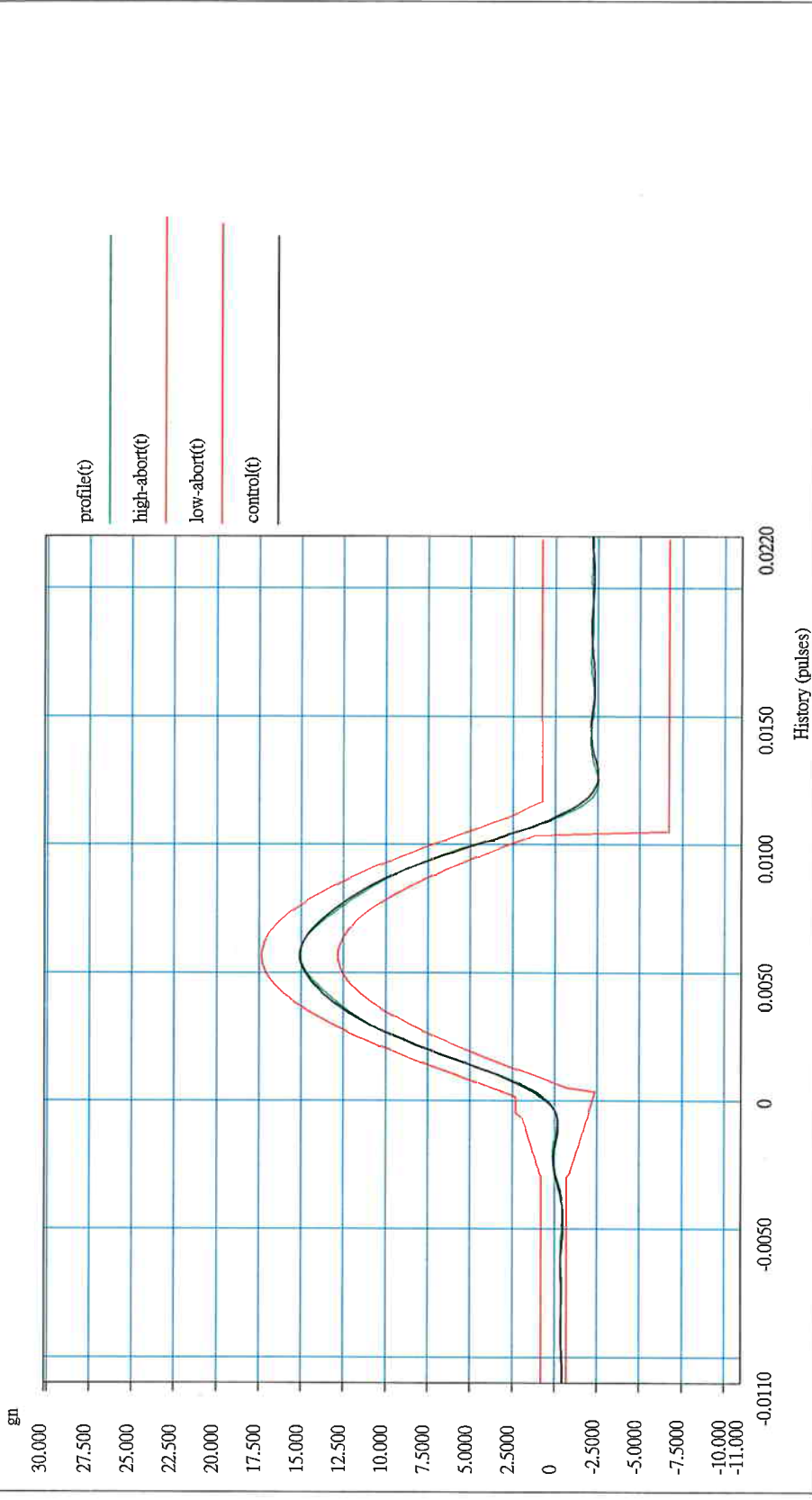


Level: 100 % Block Size: 4096 Elapsed Pulses: 10
Frame Time: 0.682667 Seconds Control Peak: 15.068306 gn Control RMS: 1.496792 gn Full Level Elapsed Pulses: 3
dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
Data saved at 10:24:06 AM, Friday, August 27, 2004 Report created at 10:24:07 AM, Friday, August 27, 2004

Axis Y HDD (Operation)

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .RunDefault Aug 27,2004 10-30-02

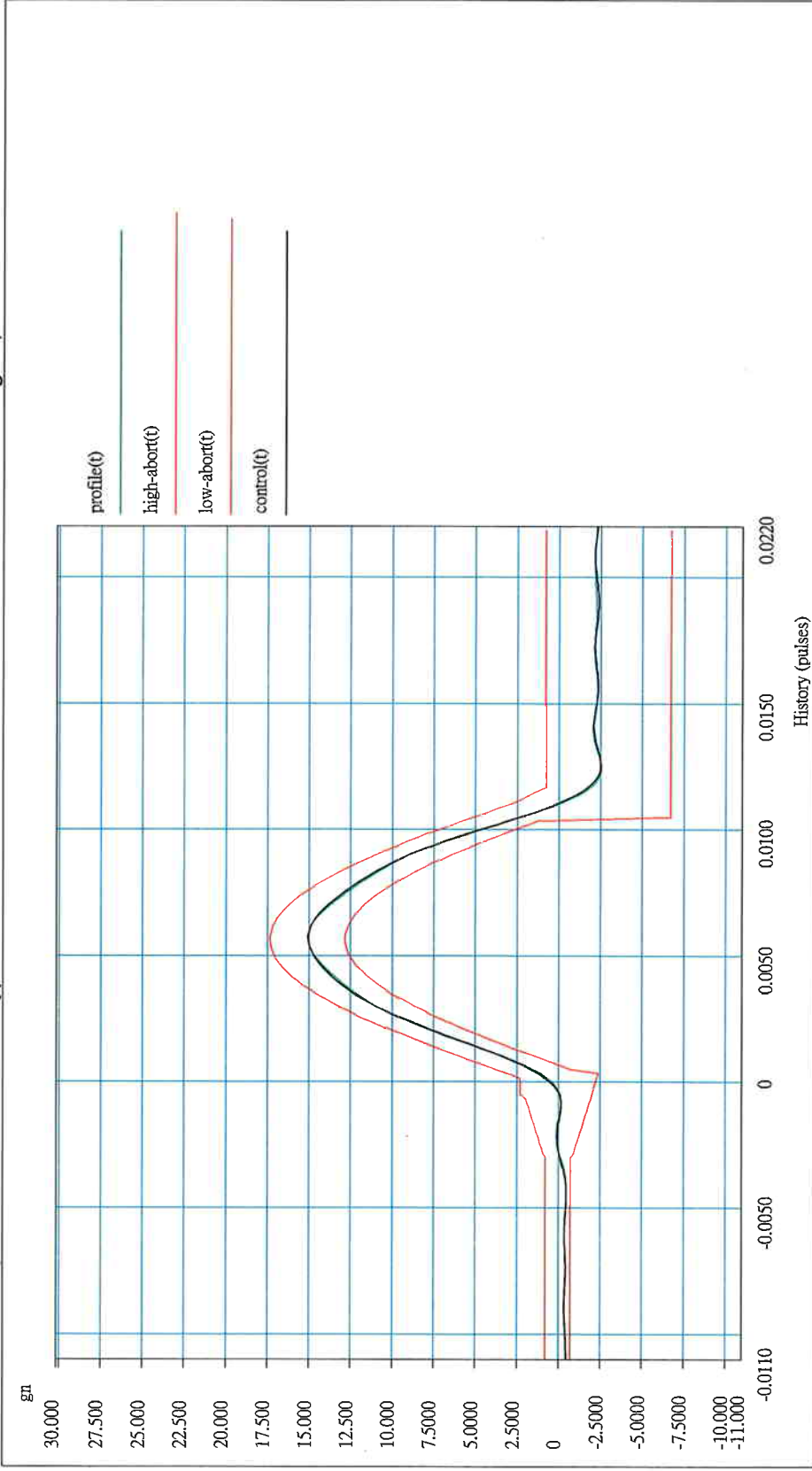


Level: 100 % Block Size: 4096 Elapsed Pulses:10
Frame Time: 0.682667 Seconds Control Peak: 14.998205 gn Control RMS: 1.497102 gn Full Level Elapsed Pulses: 3
dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
Data saved at 10:30:25 AM, Friday, August 27, 2004 Report created at 10:30:26 AM, Friday, August 27, 2004

Axis -Y HDD (Operation)

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .\RunDefault Aug 27,2004 10-37-17

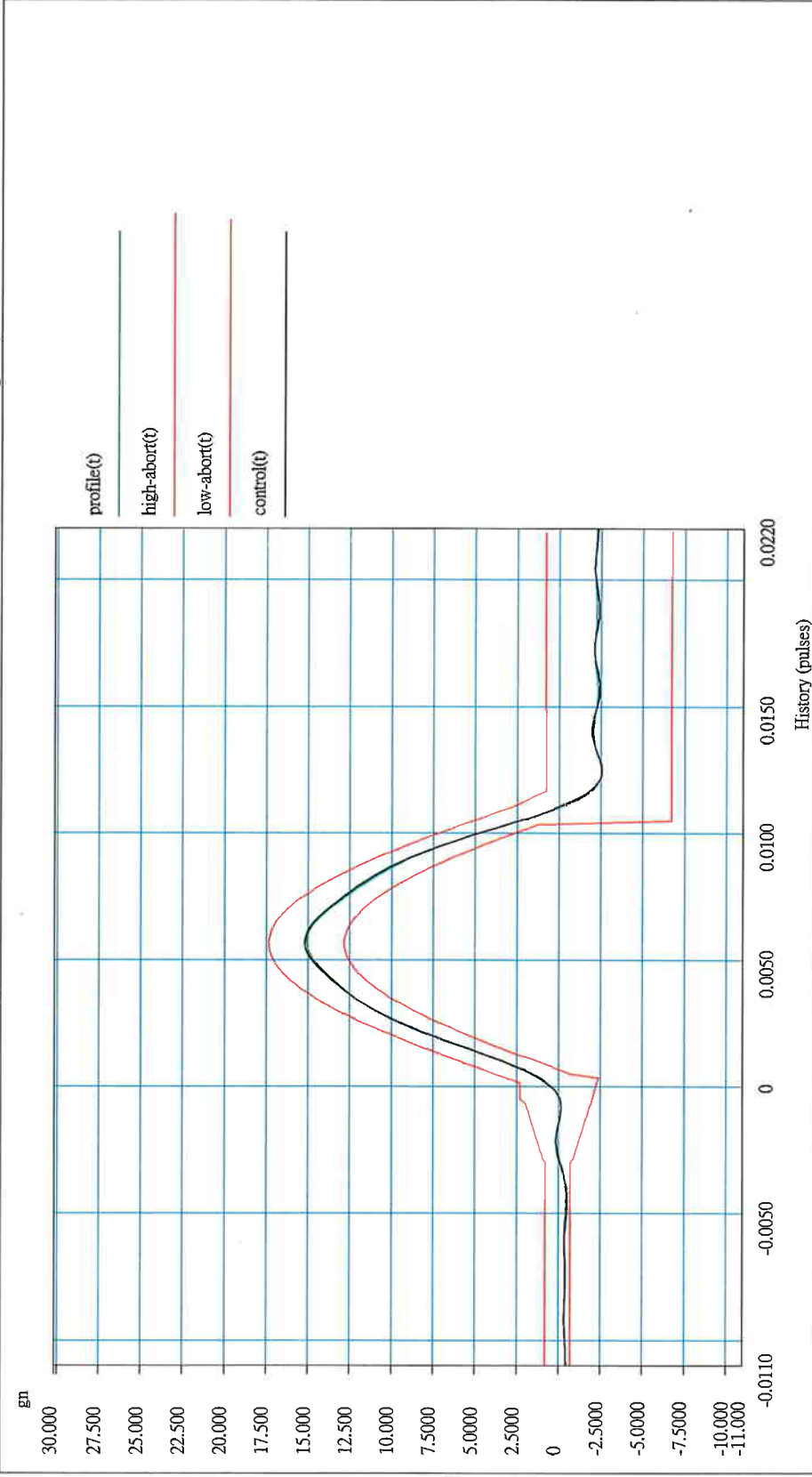


Level: 100 % Block Size: 4096 Elapsed Pulses:10
 Frame Time: 0.682667 Seconds Control Peak: 14.963661 gn Control RMS: 1.494890 gn Full Level Elapsed Pulses: 3
 dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
 Data saved at 10:37:34 AM, Friday, August 27, 2004 Report created at 10:37:35 AM, Friday, August 27, 2004

Axis Z HDD (Operation)

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .\RunDefault Aug 27,2004 10-11-31

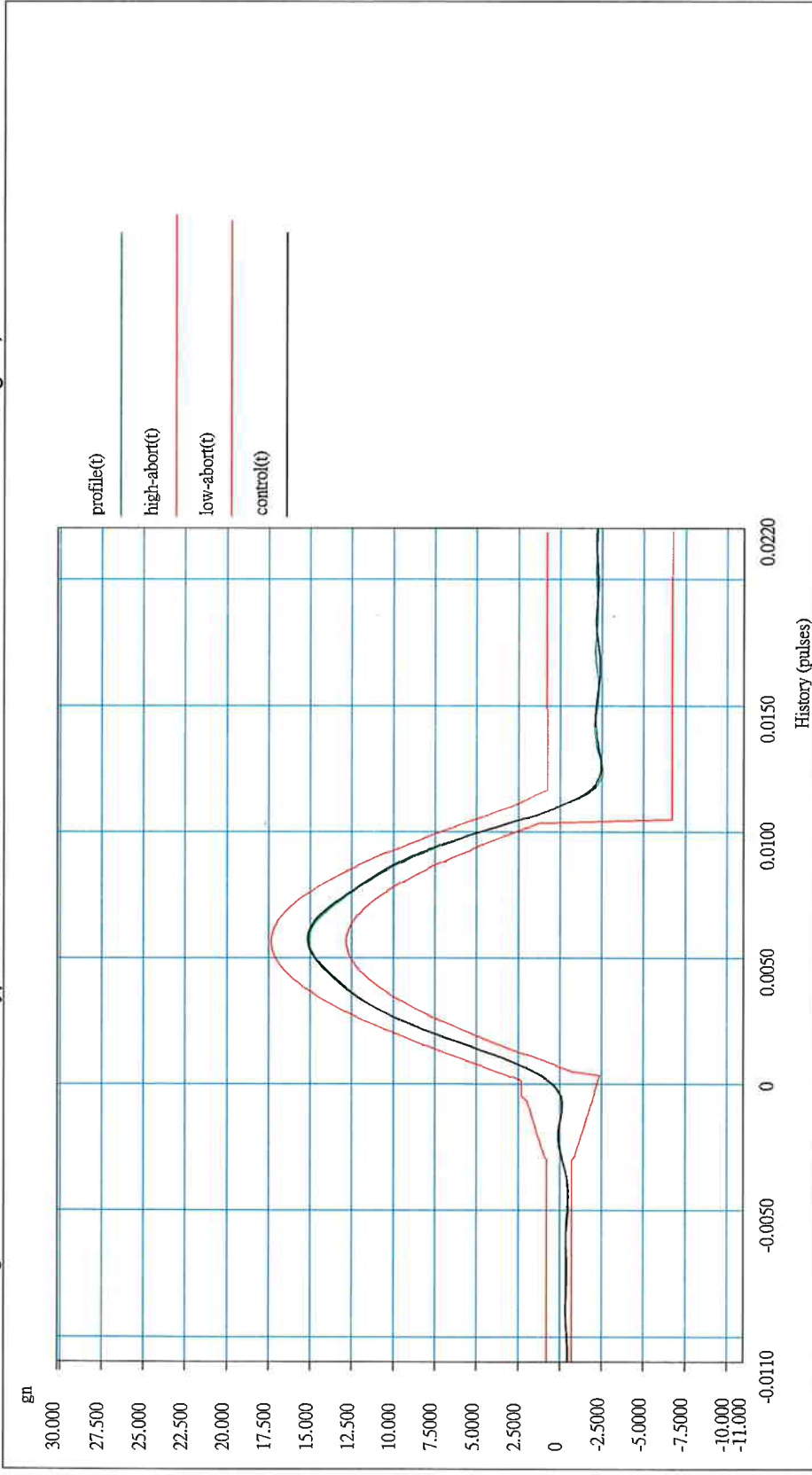


Level: 100 % Block Size: 4096 Elapsed Pulses:10
Frame Time: 0.682667 Seconds Control Peak: 15.119145 gn Control RMS: 1.496620 gn Full Level Elapsed Pulses: 3
dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
Data saved at 10:11:51 AM, Friday, August 27, 2004 Report created at 10:11:54 AM, Friday, August 27, 2004

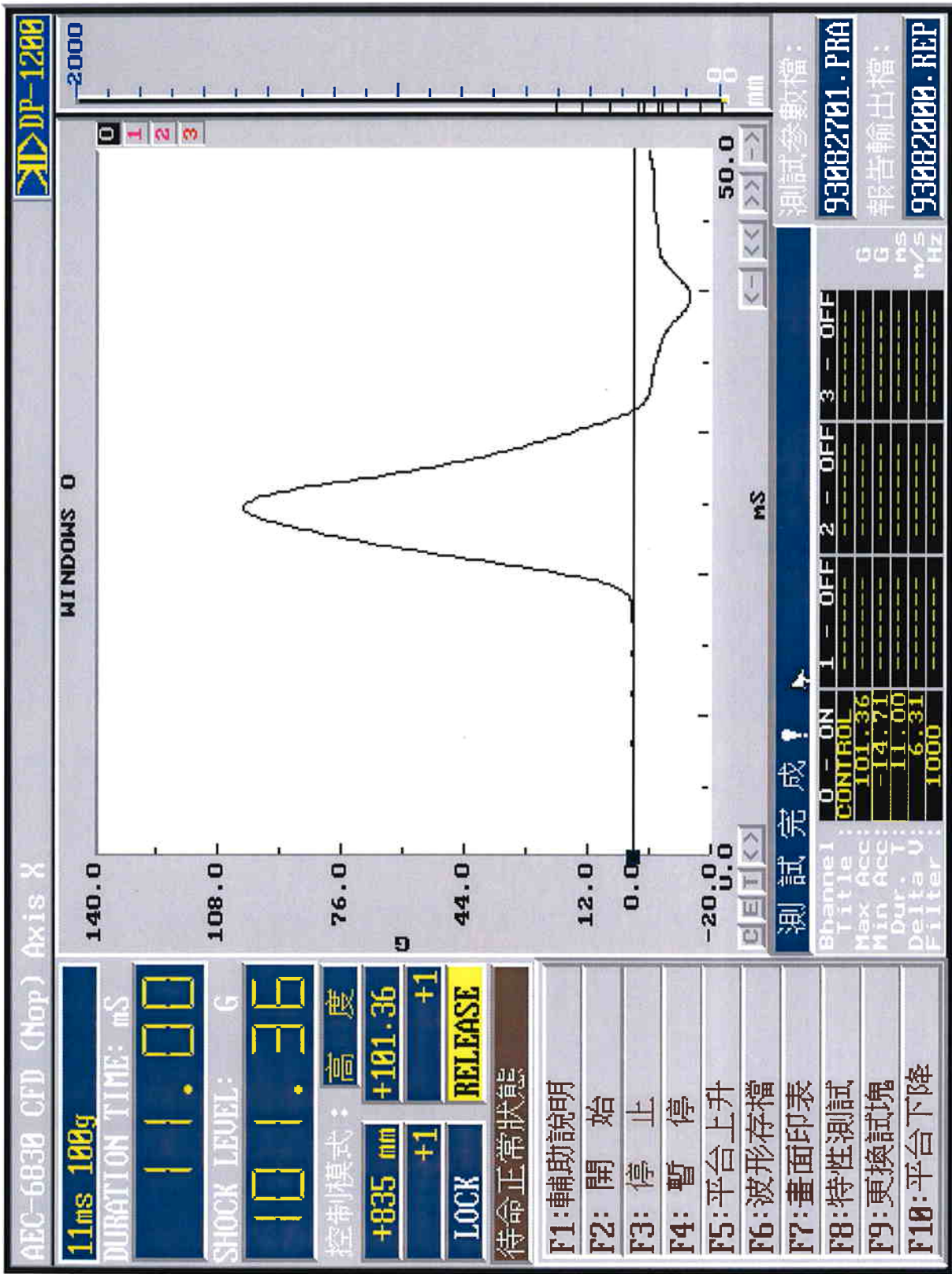
Axis -Z HDD (Operation)

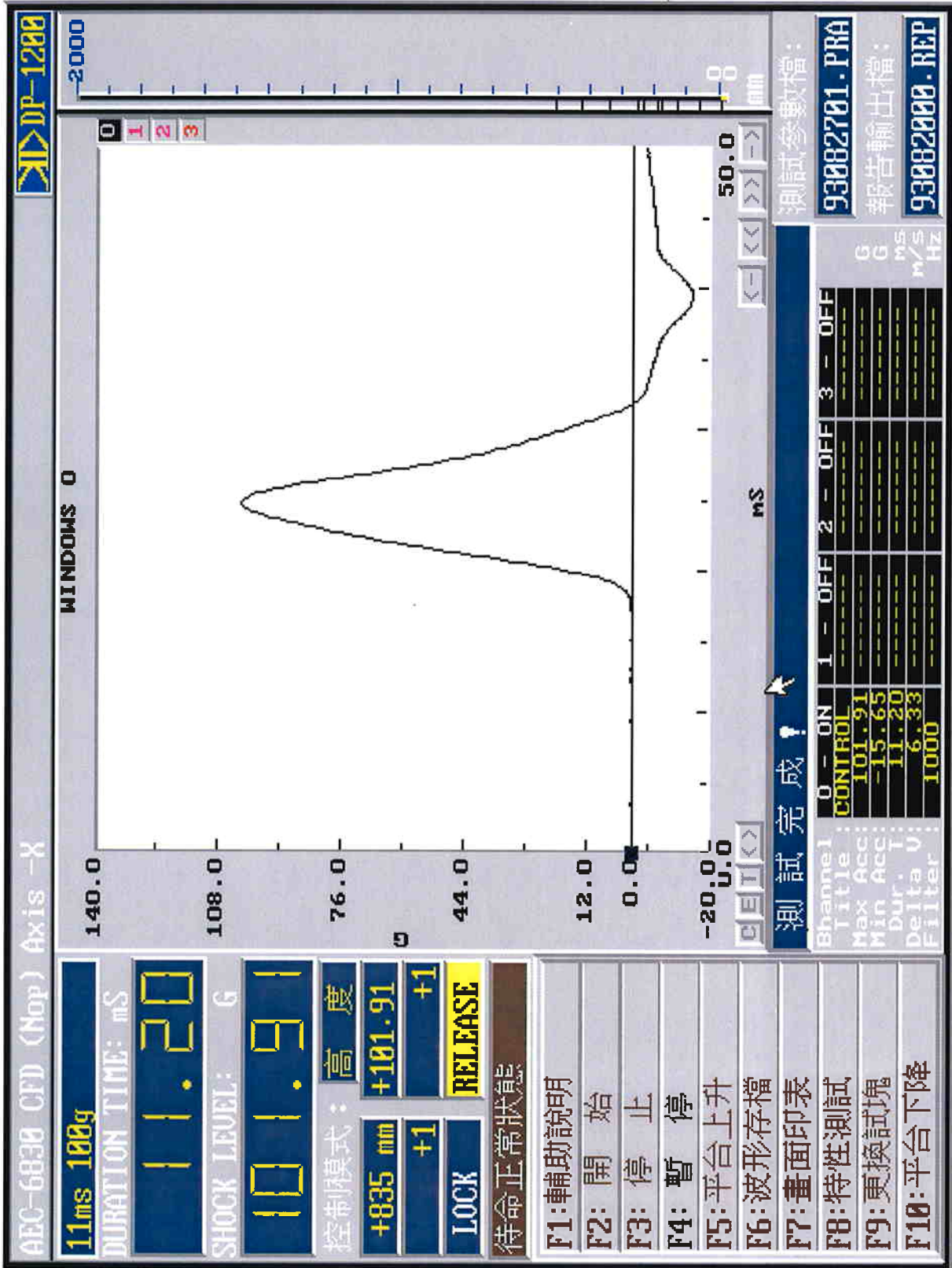
Project File Name: 研揚 15G 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .\RunDefault Aug 27,2004 10-14-59



Level: 100 % Block Size: 4096 Elapsed Pulses:10
Frame Time: 0.682667 Seconds Control Peak: 15.064670 gn Control RMS: 1.496804 gn Full Level Elapsed Pulses: 3
dT: 0.000167 Seconds Demand Peak: 14.999999 gn Demand RMS: 1.480628 gn Remaining Pulses: 0
Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms
Data saved at 10:15:16 AM, Friday, August 27, 2004 Report created at 10:15:17 AM, Friday, August 27, 2004





AEC-6830 CFD (Hop) Axis Y

11ms 100g

DURATION TIME: mS

SHOCK LEVEL: G

控制模式: 高度

+835 mm

LOCK

待命正常狀態

F1: 輔助說明

F2: 開始

F3: 停止

F4: 暫停

F5: 平台上升

F6: 波形存檔

F7: 畫面印表

F8: 特性測試

F9: 更換試塊

F10: 平台下降

WINDOWS 0

測試參數檔: 93082701.PRA

報告輸出檔: 93082000.REP

0 - ON 1 - OFF 2 - OFF 3 - OFF

Title: CONTROL

Max Acc: 100.63 G

Min Acc: -15.84 G

Dur. T: 11.20 ms

Delta V: 6.27 m/s

Filter: 1000 Hz

AEC-6830 CFD (Nop) Axis -Y

11ms 100g

DURATION TIME: mS

11.00

SHOCK LEVEL: G

101.43

控制模式: 高度

+835 mm

+1

LOCK

RELEASE

待命正常狀態

F1:輔助說明

F2:開始

F3:停止

F4:暫停

F5:平台上升

F6:波形存檔

F7:畫面印表

F8:特性測試

F9:更換試塊

F10:平台下降

WINDOWS 0

140.0
108.0
76.0
44.0
12.0
0.0
-20.0

2000
50.0
ms

測試參數檔:

93002701.PRA

報告輸出檔:

93002000.REP

Channel	0	ON	OFF	2	OFF	3	OFF
Title	CONTROL						
Max Acc	101.43						
Min Acc	-14.95						
Dur. T	11.00						
Delta U	6.35						
Filter	1000						

測試完成!

