

**KING DESIGN INDUSTRIAL CO., LTD.**

4F,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

**VIBRATION LABORATORY**<http://www.kdi.tw><http://www.vibration.com.tw>

E-mail:service@kdi.tw

**TESTING / INSPECTION REPORT**

REPORT NO : ST-180511-2

COMPANY : TechNexion Ltd.

ADDRESS : 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,  
New Taipei City, Taiwan

TEL : 886-2-8227-3585

FAX : 886-2-8227-3590

SPECIMEN : TEP1560 BSW series

TEP5-BSW E8000 ---TEP5-BSW E8000

Power Expansion-LPOE---TXR-P1-12V-POE1

I/O Expansion-XG21---TXR-I2-GS2-GG8

DATE OF RECEIVED : 2018/04/26

DATE OF TESTED : 2018/04/26

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 :



Approval Signatory :

2018.6.8 David Lee

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-784A, S/N : 23116

### TEST ENVIRONMENT :

- Temperature : 25°C (25±10°C)
- Relative Humidity : 62%RH (50±25% RH)

### SPECIMEN :

Model/(S/N) : TEP1560 BSW series  
TEP5-BSW E8000 ---TEP5-BSW E8000  
Power Expansion-LPOE---TXR-P1-12V-POE1  
I/O Expansion-XG21---TXR-I2-GS2-GG8

Quantity : 1 unit

## TESTING / INSPECTION REPORT

### TEST SPECIFICATION :

#### **As per applicant's requirement---**

Shock test (Operating)

Wave Form : Half sine wave

Acceleration : 15 g

Duration Time : 11 mS

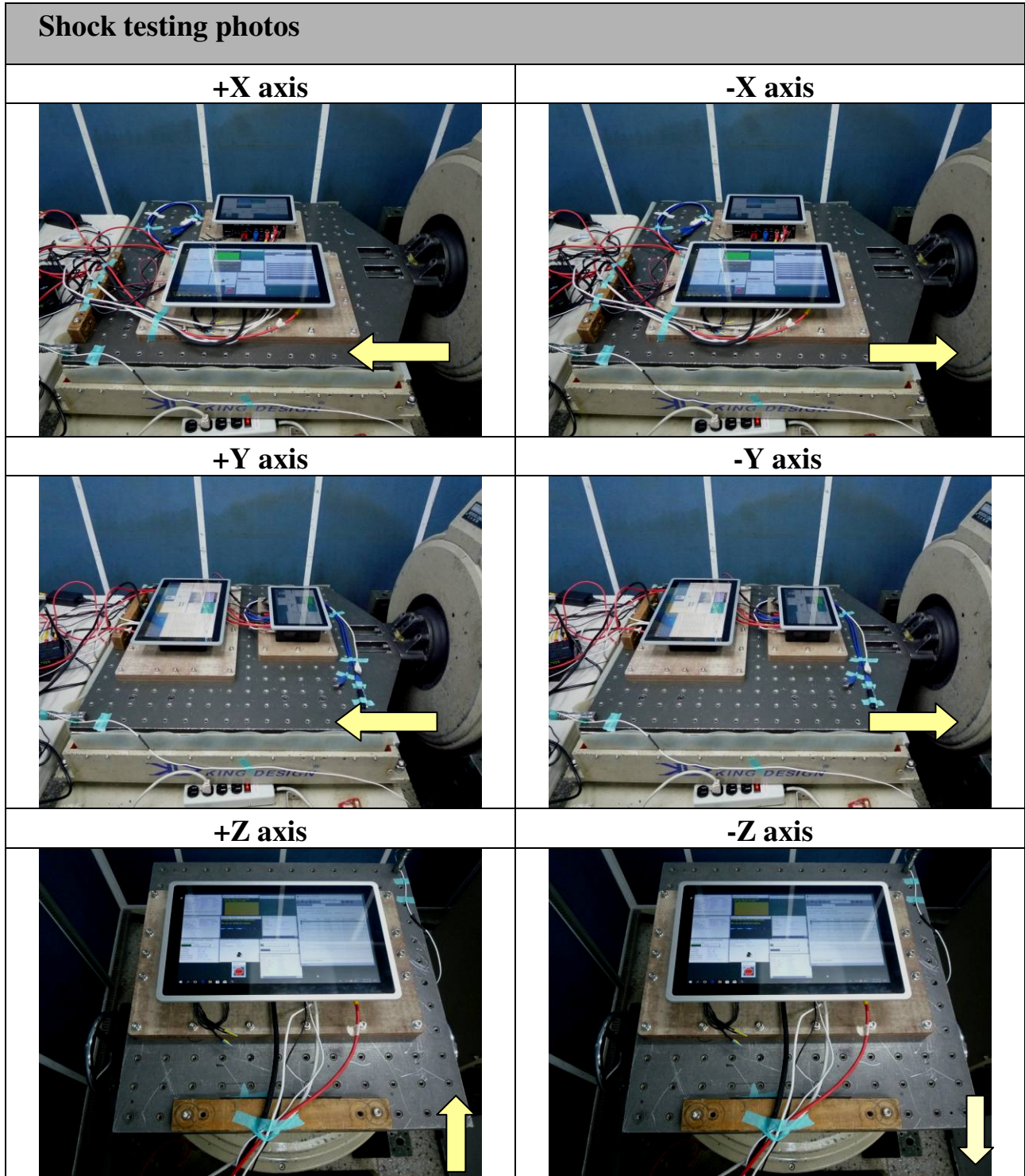
No. of Shock : 3 (Each Axis)

Shock Direction :  $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axis

### TEST RESULT :

Describe	PASS	FAIL	Non-Judgment
Function judgment <sup>(1)</sup>	√	---	---
Appearance check <sup>(2)</sup>	√	---	---
(1)—Booting function was normal after the test. (2)—No visible damages were found.			

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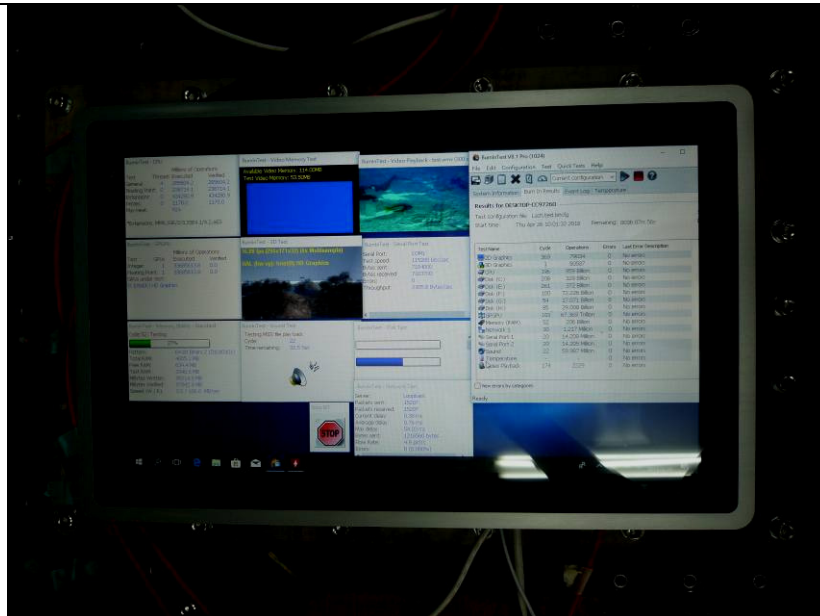
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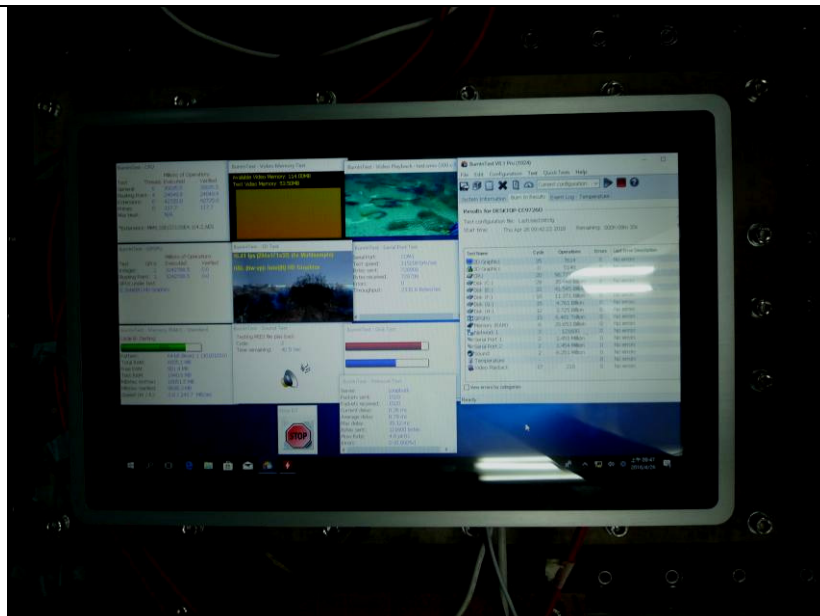
## TESTING / INSPECTION REPORT

### Testing photos

#### After test-1



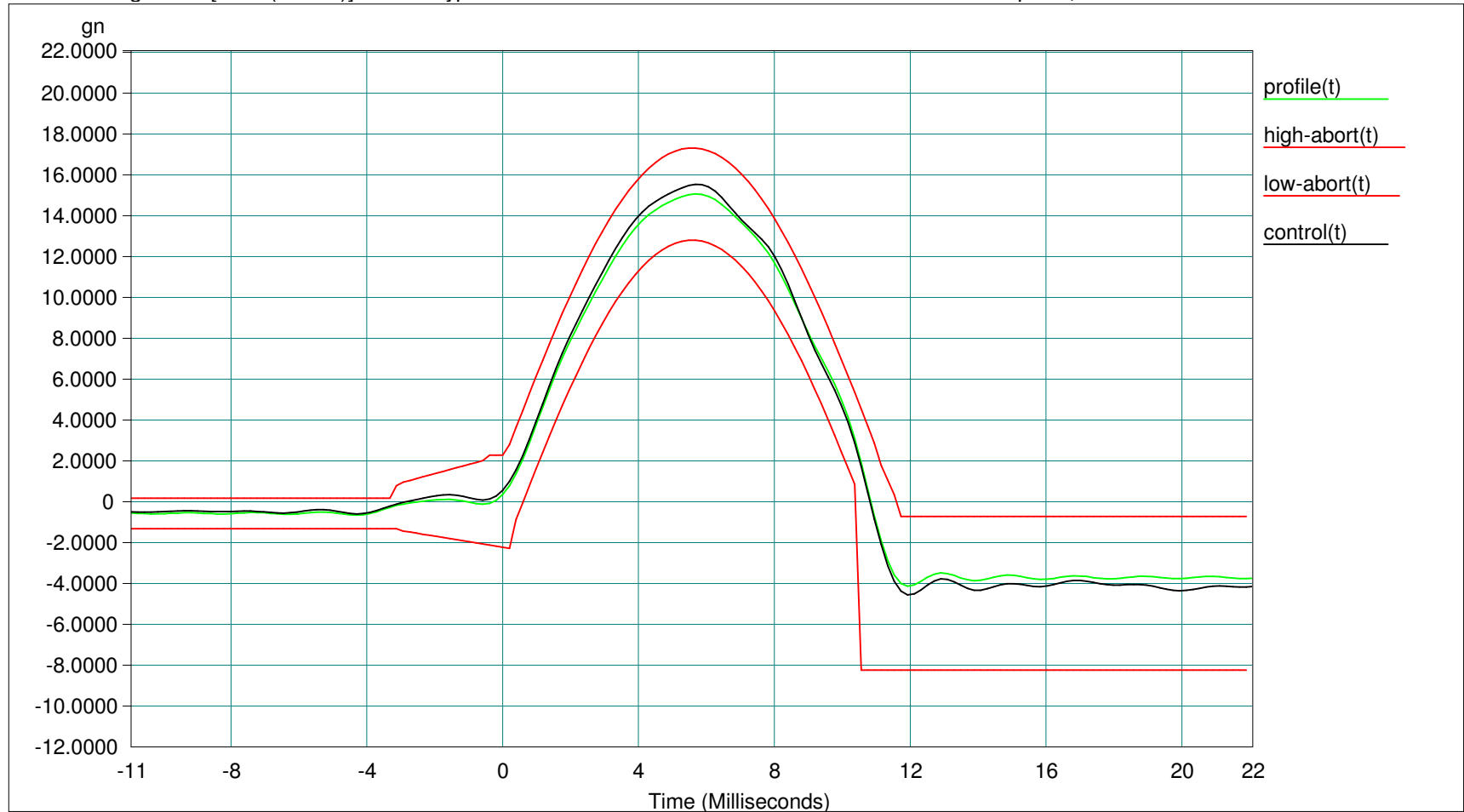
#### After test-2





+X axis - shock test

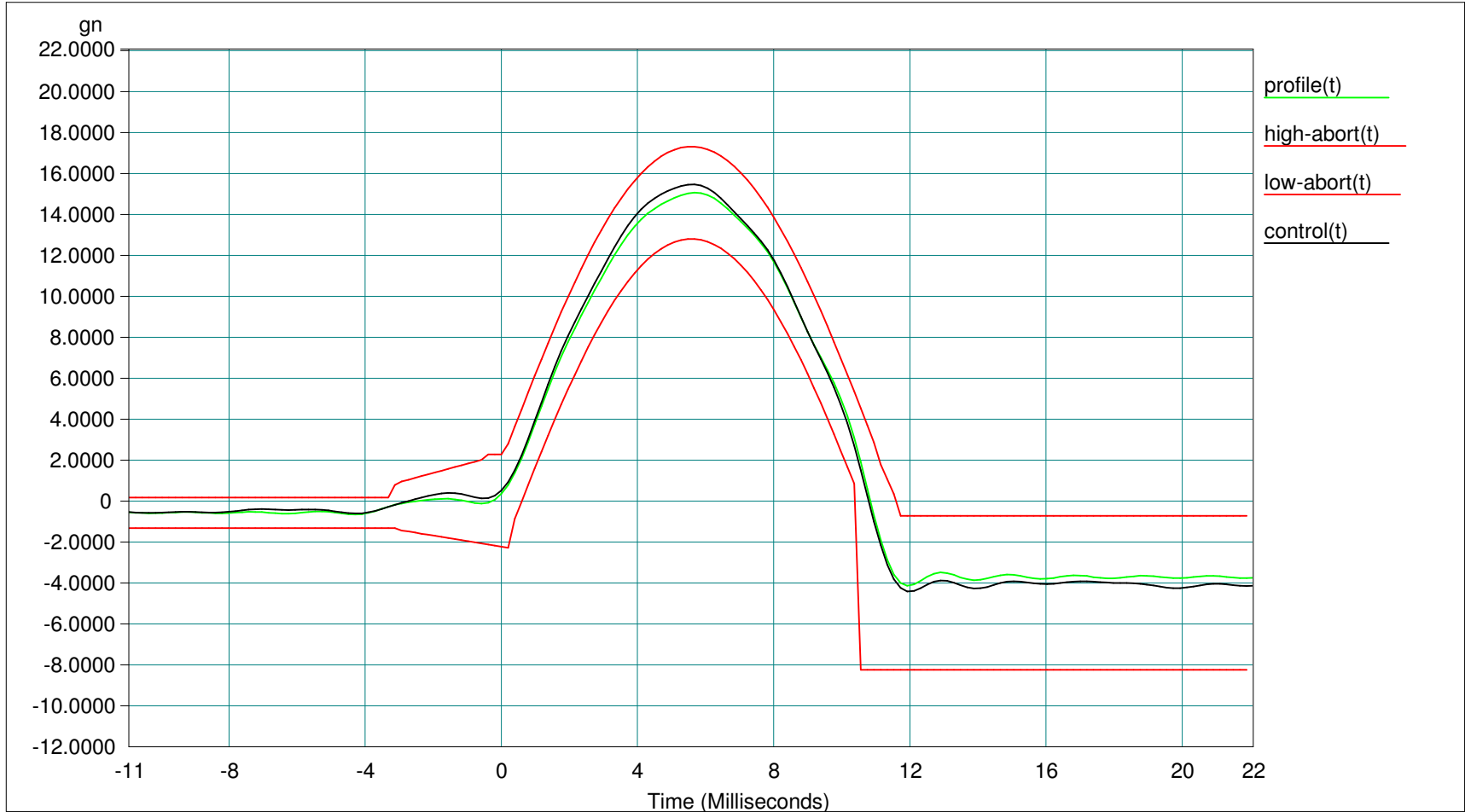
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 12-16-20



Level: 100 % Block Size: 2048 Elapsed Pulses: 14  
 Frame Time: 0.400000 Seconds Control Peak: 15.475429 Control RMS: 2.247041 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 7  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms

+Y axis - shock test

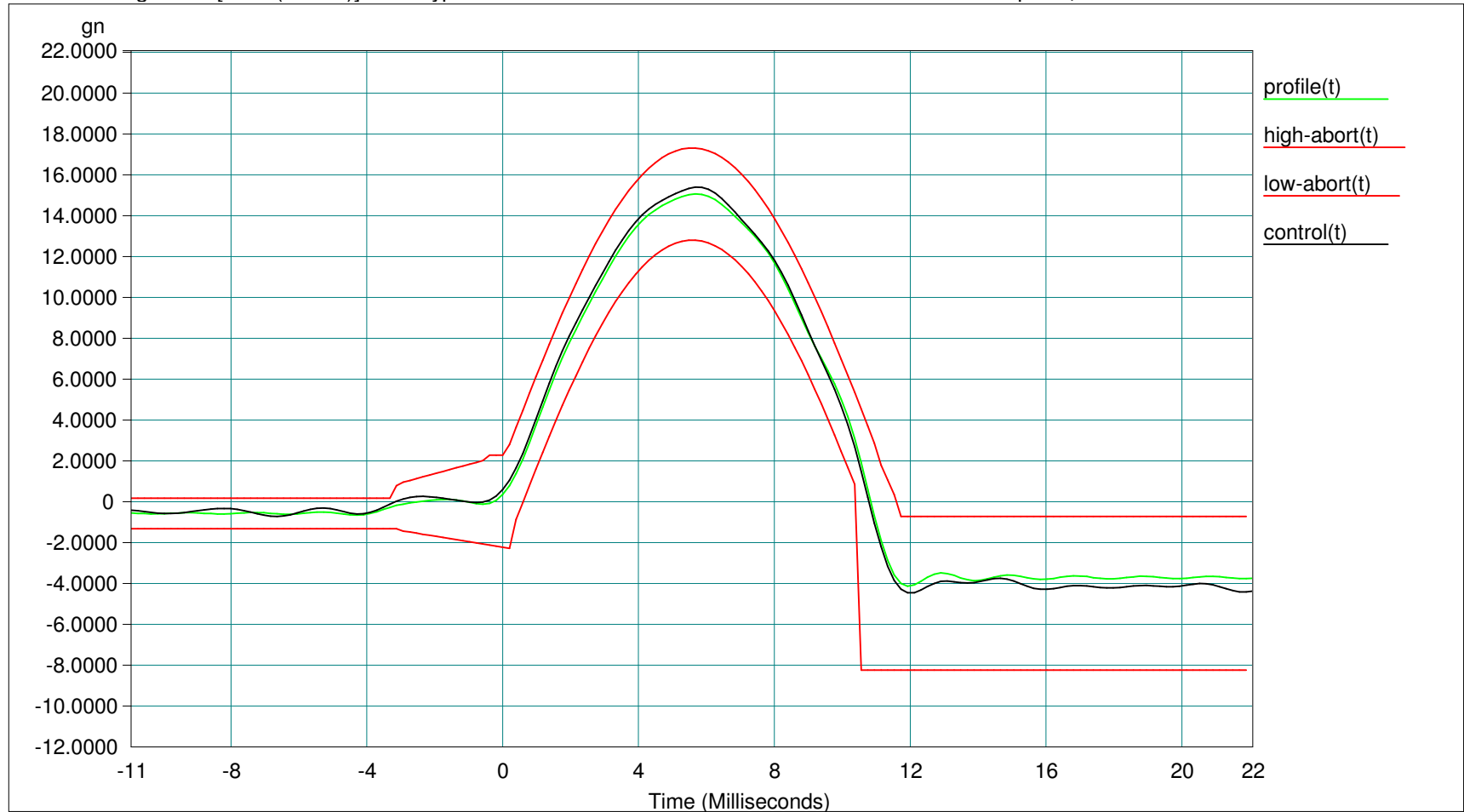
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 10-51-46



Level: 100 % Block Size: 2048 Elapsed Pulses: 14  
 Frame Time: 0.400000 Seconds Control Peak: 15.407299 Control RMS: 2.246772 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 7  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms

+Z axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 14-43-54

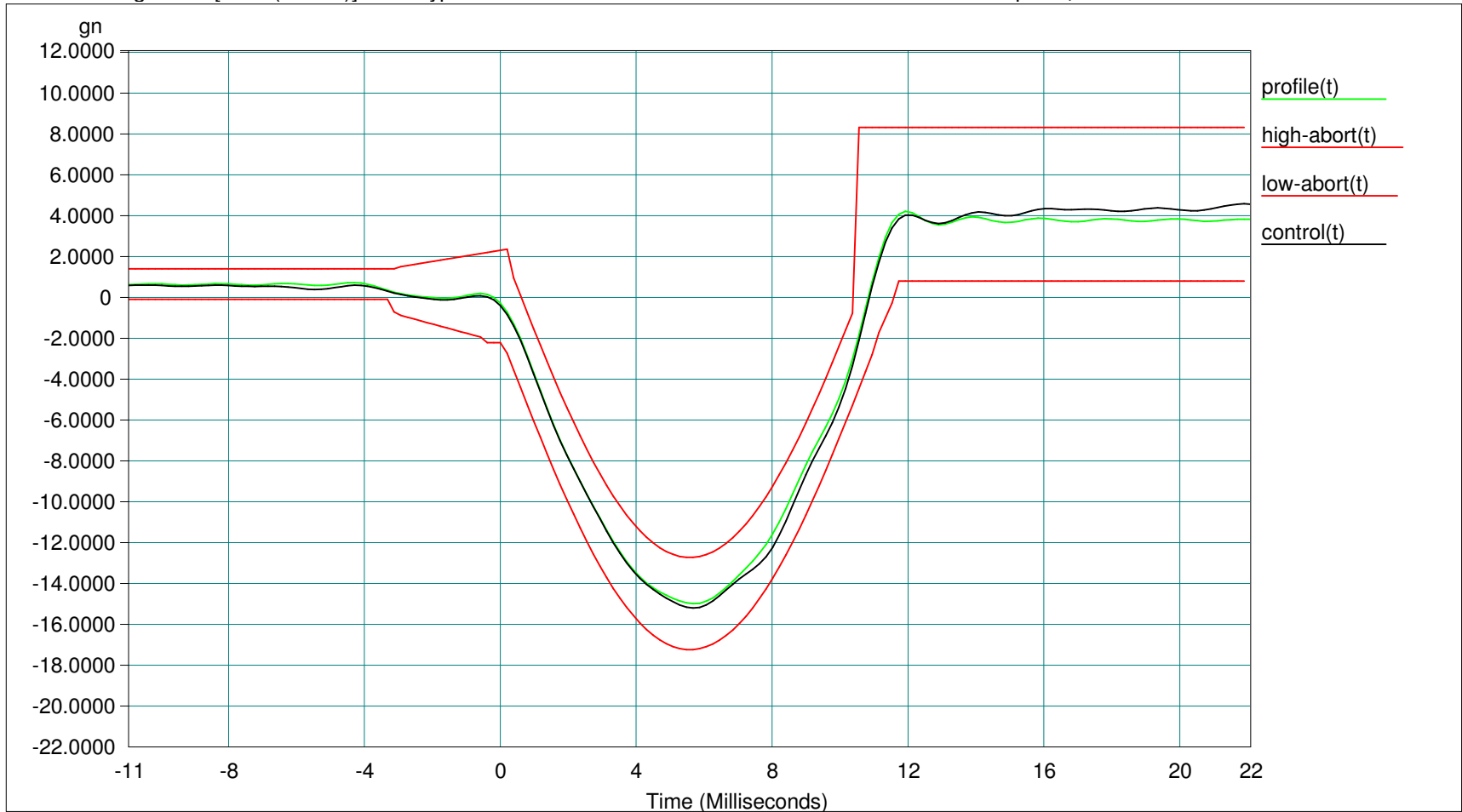


Level: 100 % Block Size: 2048 Elapsed Pulses: 14  
 Frame Time: 0.400000 Seconds Control Peak: 15.338953 Control RMS: 2.232389 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 7  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms



-X axis - shock test

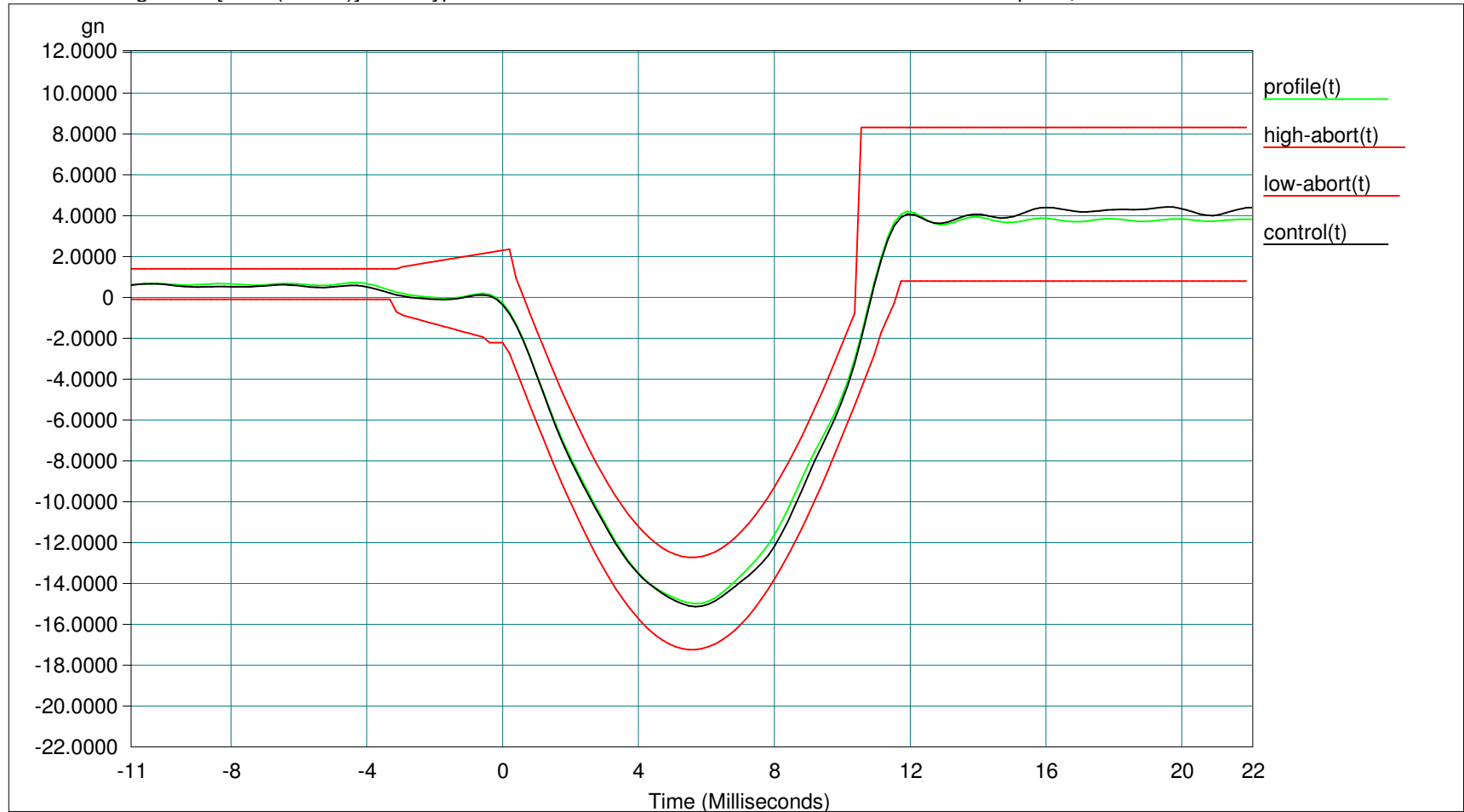
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 12-16-20



Level: 100 % Block Size: 2048 Elapsed Pulses: 21  
 Frame Time: 0.400000 Seconds Control Peak: 15.218359 Control RMS: 2.237796 Full Level Elapsed Pulses: 6  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms

-Y axis - shock test

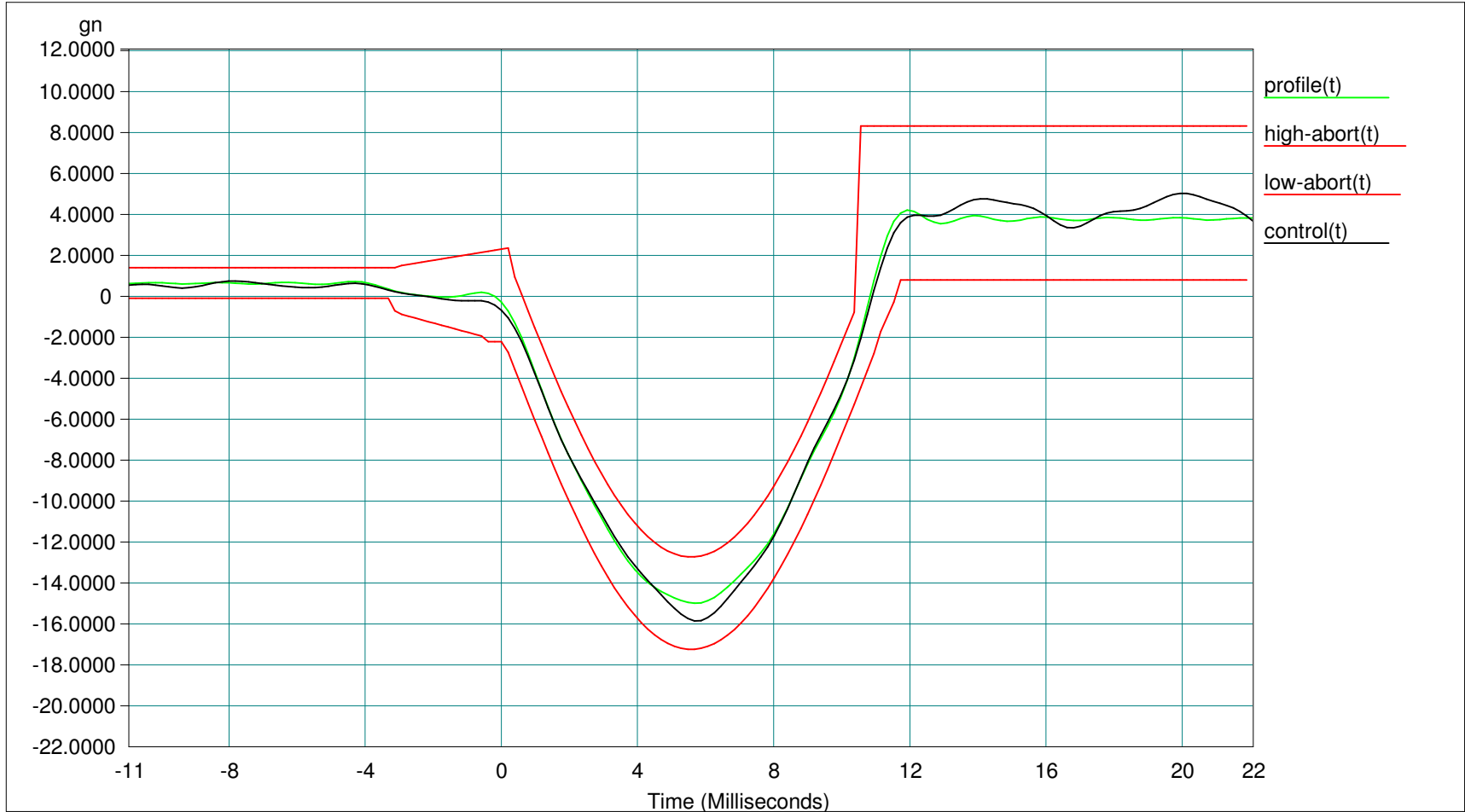
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 10-51-46



Level: 100 % Block Size: 2048 Elapsed Pulses: 21  
 Frame Time: 0.400000 Seconds Control Peak: 15.147860 Control RMS: 2.239851 Full Level Elapsed Pulses: 6  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms

-Z axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock) Test Type: Classical Shock Run Folder: .\RunDefault Apr 26, 2018 14-43-54



Level: 100 % Block Size: 2048 Elapsed Pulses: 21  
 Frame Time: 0.400000 Seconds Control Peak: 15.862815 Control RMS: 2.237579 Full Level Elapsed Pulses: 6  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms**END**