

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

4F, NO. 3, Lane 270, Pei Shen Road Sec. 3,

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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-180712-1R

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 : TWP1560-BSW series

TN140\_TEP5-BSW --- TEP5-BSW-N3710

Power Expansion L112--- TXR-P1-12V-LAN1

I/O Expansion XS21--- TXR-I2-S2-G8

DATE OF RECEIVED : 2018/06/27



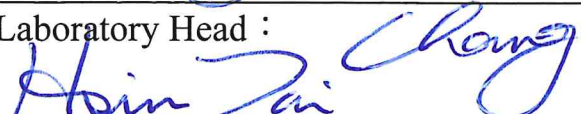
DATE OF TESTED : 2018/06/27

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 update to "ST-180712-1" document.
- This report is 11 pages, and no part of it may be abstracted or reproduced.



Test Engineer : 	
Approval Signatory :  2018.8.8	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) : TWP1560-BSW series  
TN140\_TEP5-BSW --- TEP5-BSW-N3710  
Power Expansion L112--- TXR-P1-12V-LAN1  
I/O Expansion XS21--- TXR-I2-S2-G8

- 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

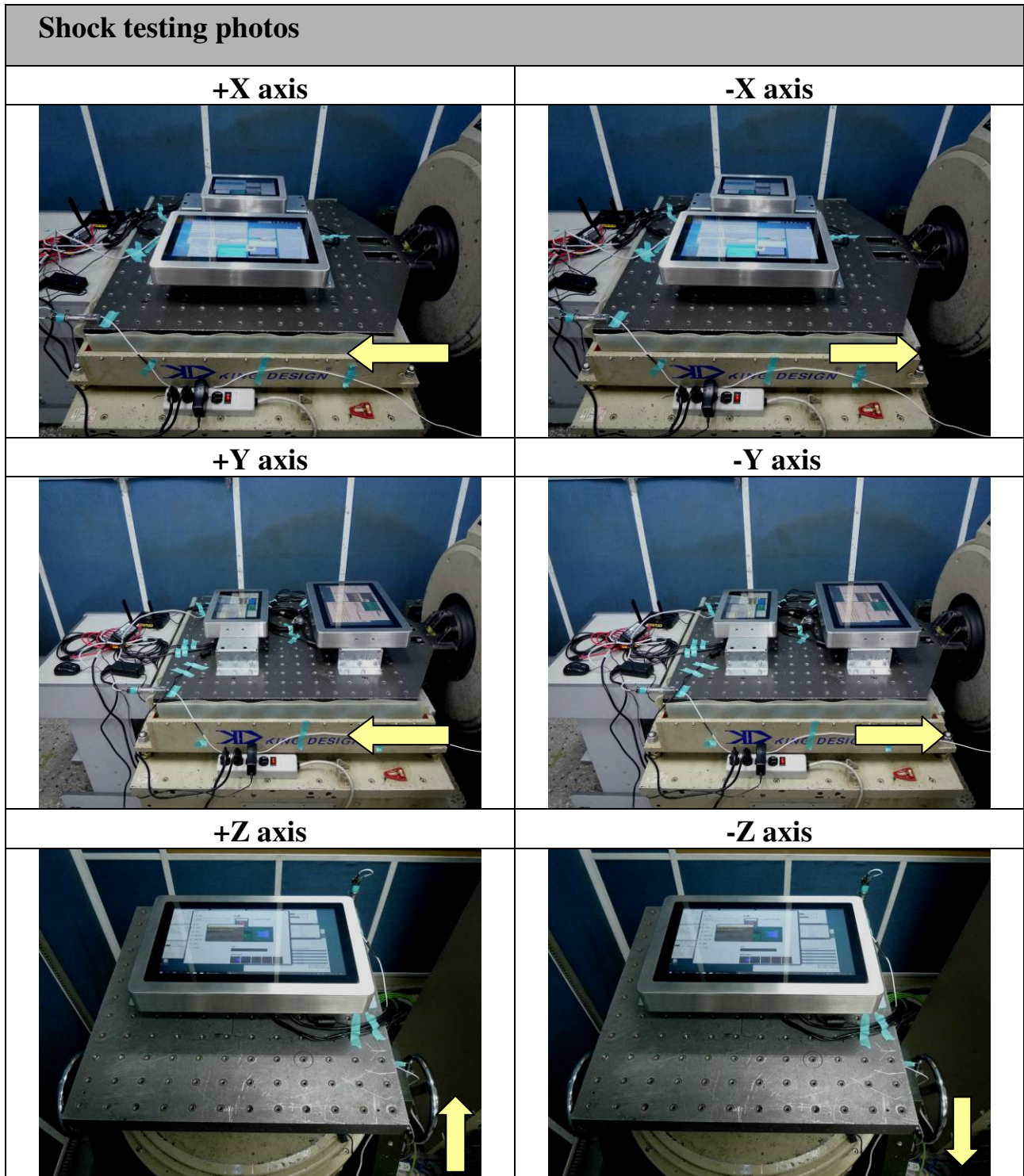
No. of Shock : 3 (Each Axis)

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

### TEST RESULT :

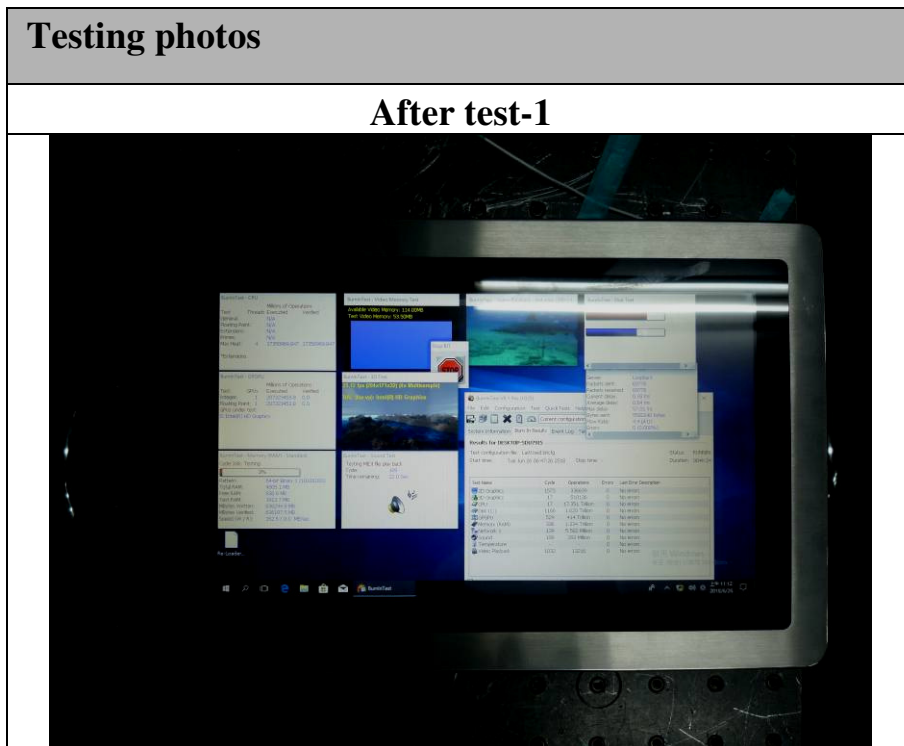
Describe	PASS	FAIL	Non-Judgment
Function judgment	√	---	---
Appearance check	√	---	---

## TESTING / INSPECTION REPORT



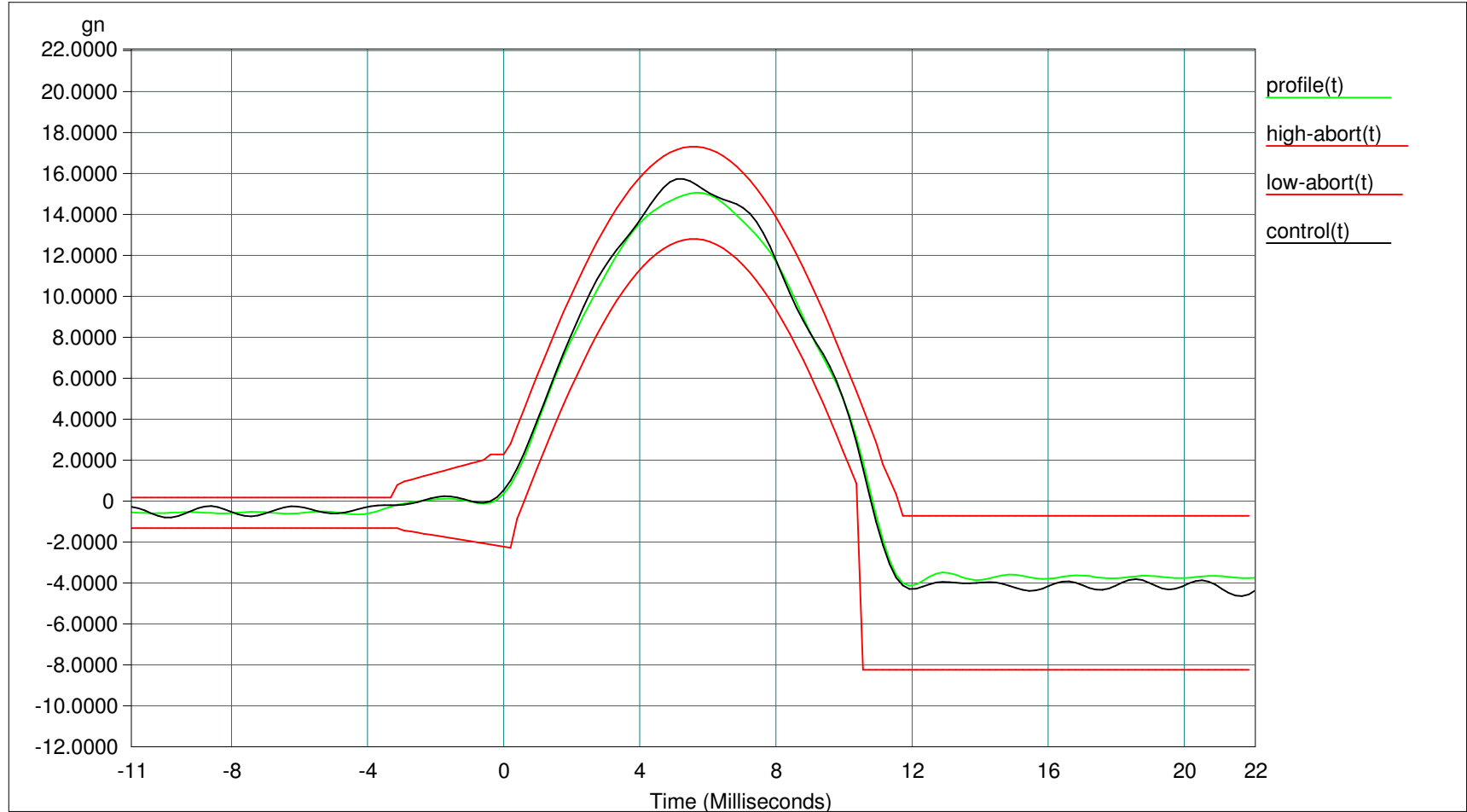
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## TESTING / INSPECTION REPORT



+X axis - shock test

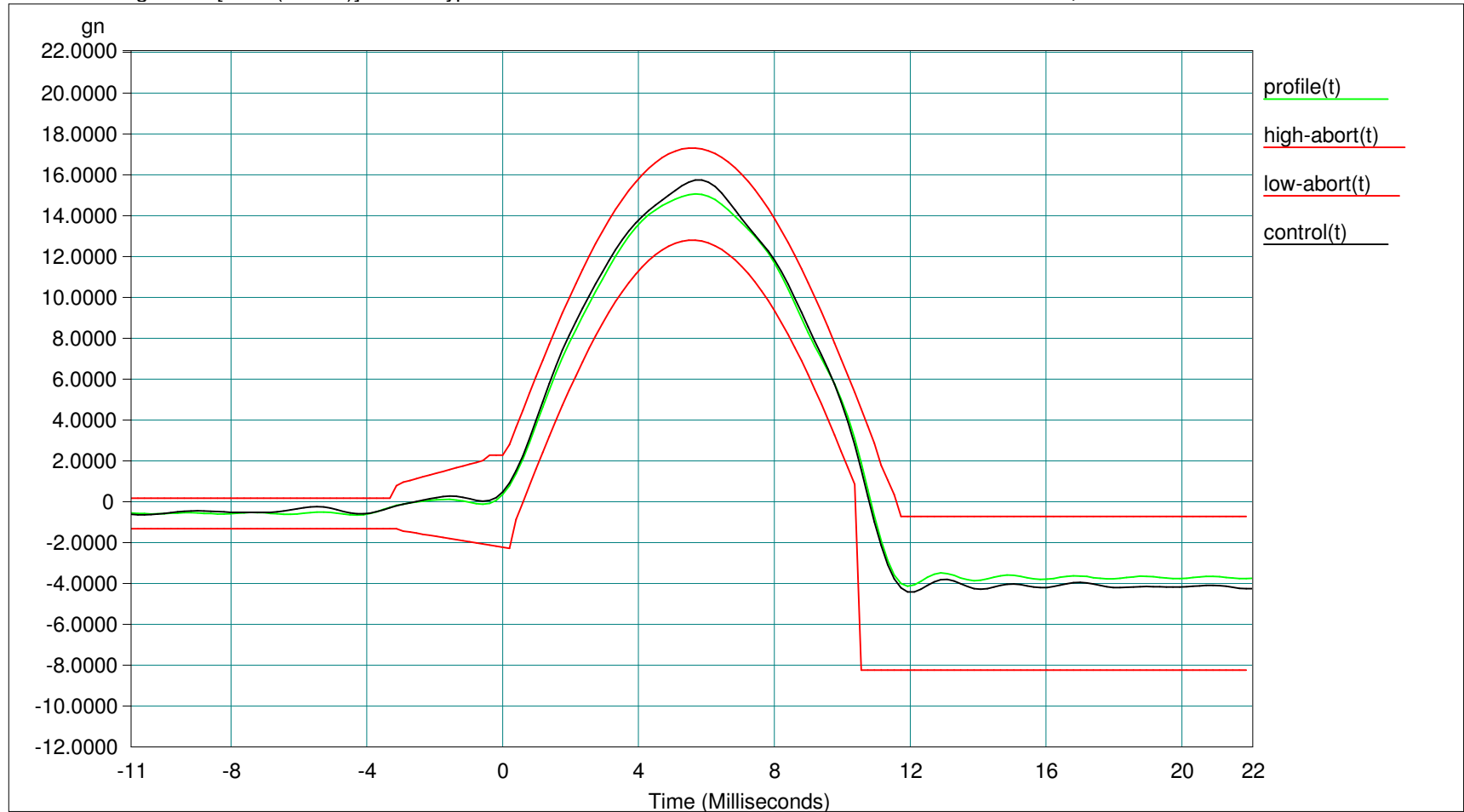
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Jun 27, 2018 11-41-29



Level: 100 % Block Size: 2048 Elapsed Pulses: 6  
 Frame Time: 0.400000 Seconds Control Peak: 15.674220 Control RMS: 2.254936 Full Level Elapsed Pulses: 3  
 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

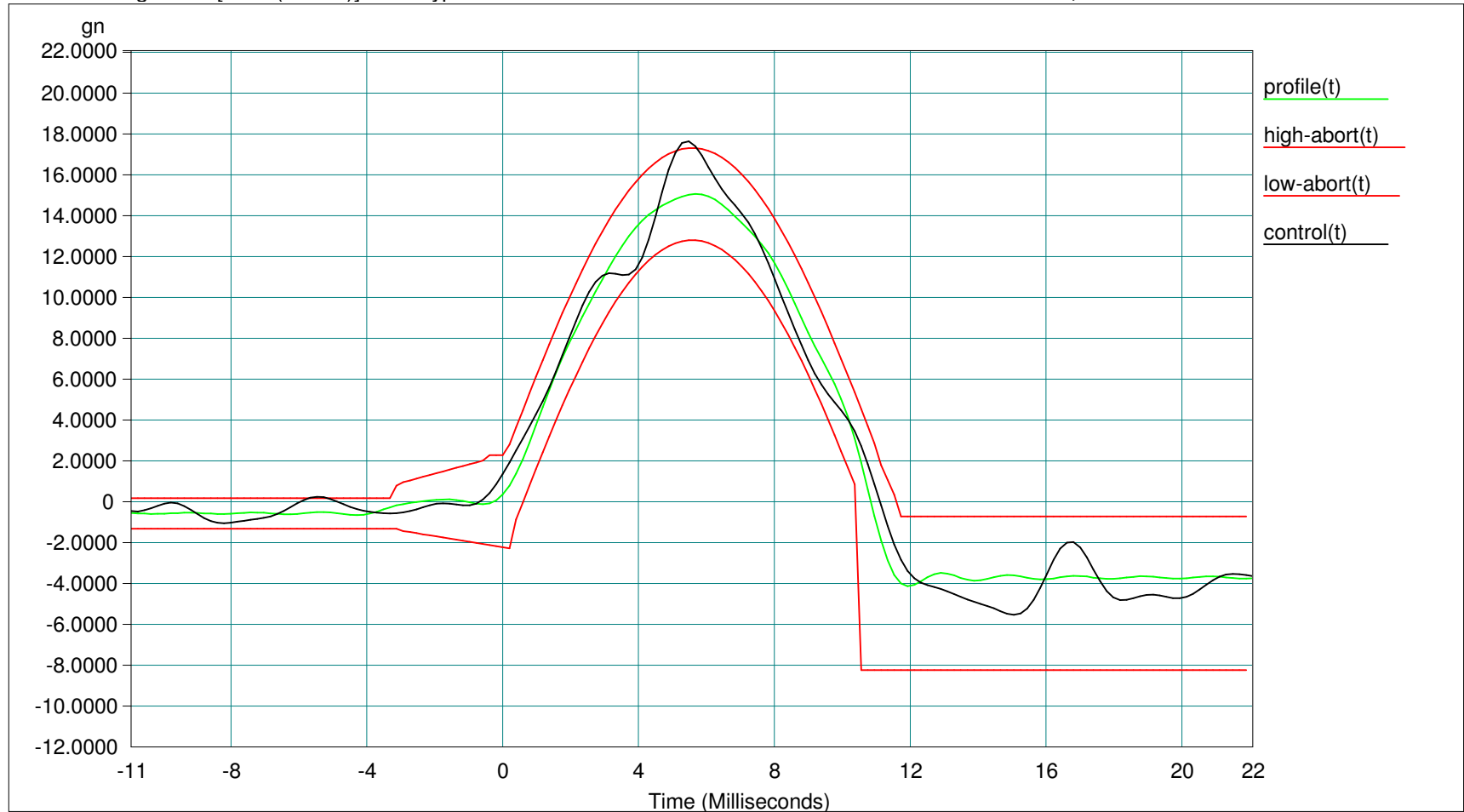
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Jun 27, 2018 10-22-17



Level: 100 % Block Size: 2048 Elapsed Pulses: 6  
 Frame Time: 0.400000 Seconds Control Peak: 15.682876 Control RMS: 2.253542 Full Level Elapsed Pulses: 3  
 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 Jun 27, 2018 13-21-47

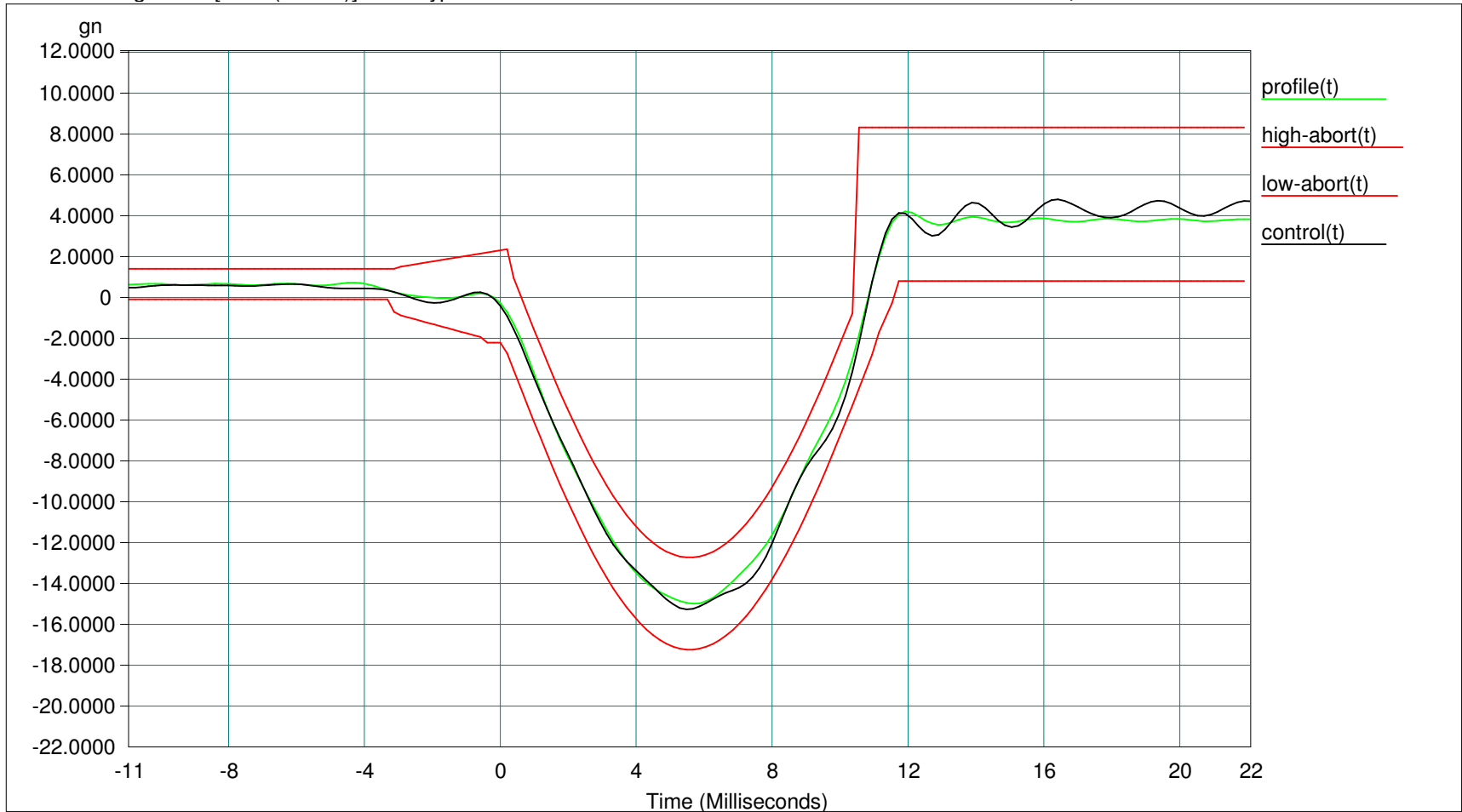


Level: 100 % Block Size: 2048 Elapsed Pulses:6  
 Frame Time: 0.400000 Seconds Control Peak: 17.583086 Control RMS: 2.257987 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude:14.999999 Pulse Width: 11.000000 ms



-X axis - shock test

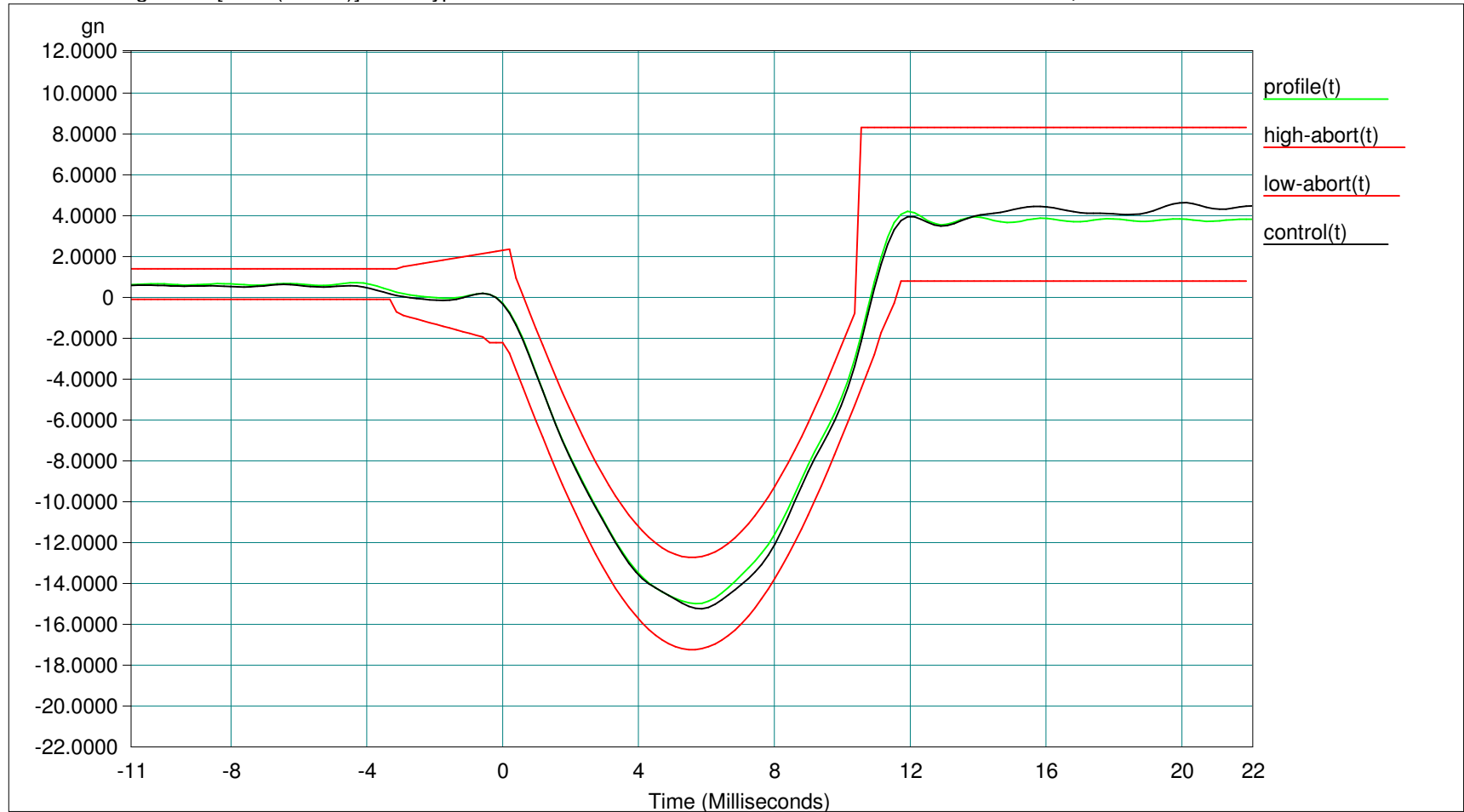
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Jun 27, 2018 11-41-29



Level: 100 % Block Size: 2048 Elapsed Pulses:6  
 Frame Time: 0.400000 Seconds Control Peak: 15.282092 Control RMS: 2.241513 Full Level Elapsed Pulses: 3  
 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

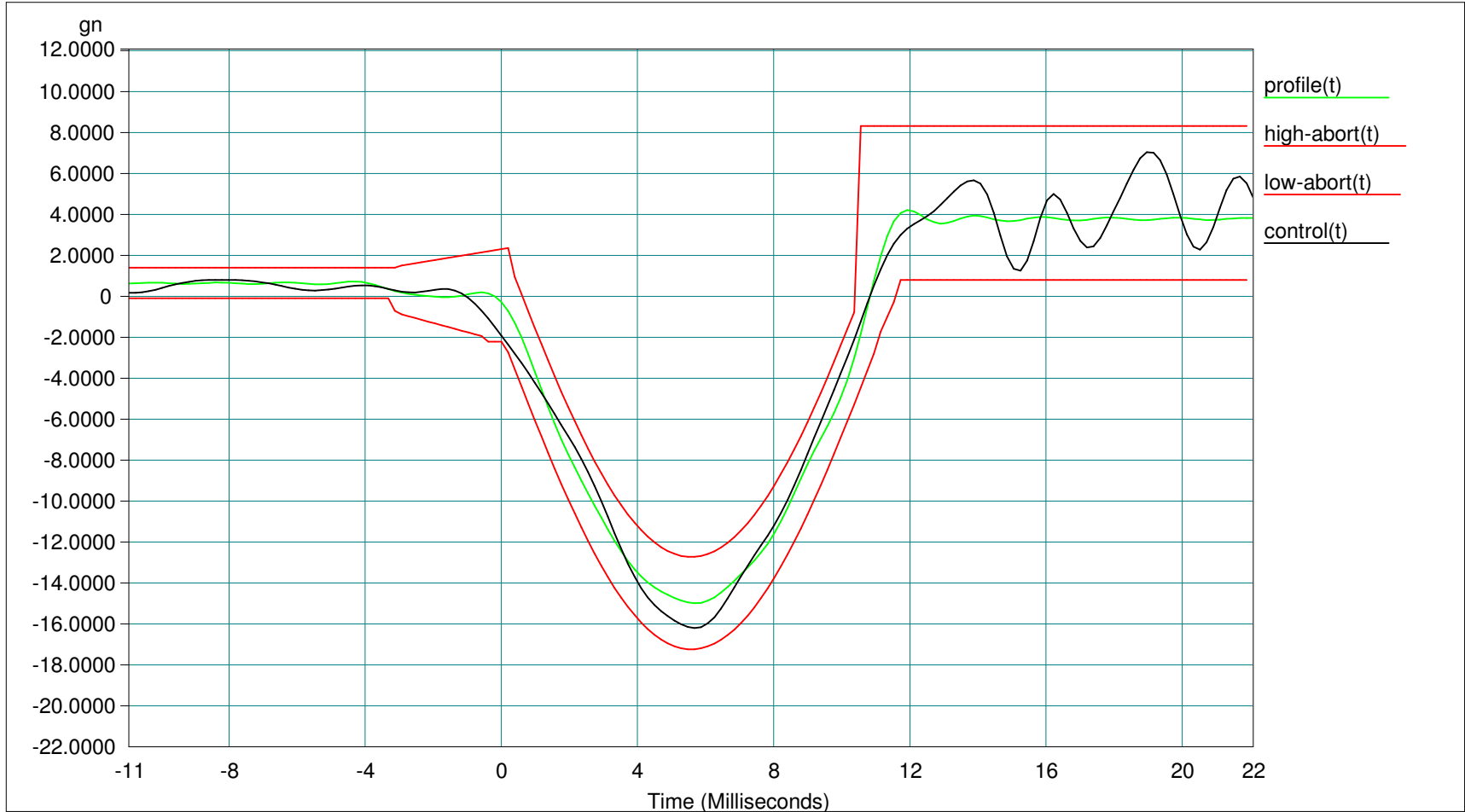
Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault Jun 27, 2018 10-22-17



Level: 100 % Block Size: 2048 Elapsed Pulses:6  
 Frame Time: 0.400000 Seconds Control Peak: 15.254225 Control RMS: 2.240835 Full Level Elapsed Pulses: 3  
 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 Jun 27, 2018 13-29-23



Level: 100 % Block Size: 2048 Elapsed Pulses: 6  
 Frame Time: 0.400000 Seconds Control Peak: 16.217281 Control RMS: 2.300940 Full Level Elapsed Pulses: 3  
 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**