

**KING DESIGN INDUSTRIAL CO., LTD.****VIBRATION TEST LABORATORY**4F, NO. 3, Lane 270, Pei Shen Road Sec. 3,  
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TEL: 886-2-2662-5100 FAX: 886-2-2662-3094<http://www.kdi.tw>  
<http://www.vibration.com.tw>  
E-mail:service@kdi.tw**TESTING / INSPECTION REPORT**

REPORT NO : ST-150923-1

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 : FWS-8500 (With 2.5" SATA HDD)  
DATE OF RECEIVED : 2015/09/23  
DATE OF TESTED : 2015/09/23

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

Test Engineer : <i>Te by</i>	
Approval Signatory : <i>David Lee</i>	Laboratory Head : <i>Hsin Tai Chang</i>



## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,  
S/N : KDS11054986  
Controller : VCS-913+, S/N : 1312384  
Control Accelerometer : Wilcoxon Research WR-777, S/N : 4207  
Calibration Date : 2014/11/25

### TEST ENVIRONMENT :

Temperature : 26°C (25±10°C)  
Relative Humidity : 67%RH (50±20% RH)

### SPECIMEN :

Model : FWS-8500 (With 2.5" SATA HDD)  
Quantity : 1 unit

## TESTING / INSPECTION REPORT

### TEST SPECIFICATION (1) :

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

Shock test (Operating)

Wave Form : Half Sine wave  
 Acceleration : 10 g  
 Duration Time : 11 mS  
 No. of Shock : Each axis 3 times  
 Shock Direction :  $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axis

### TEST SPECIFICATION (2) :

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



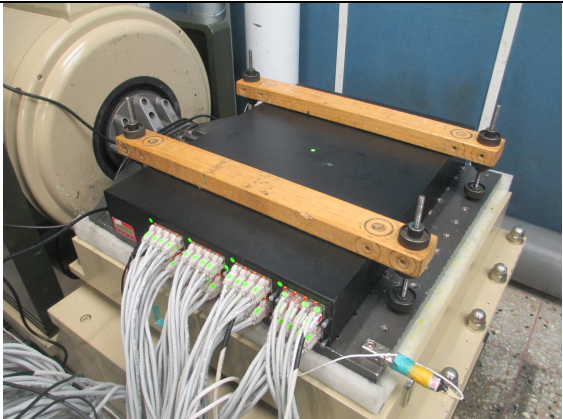
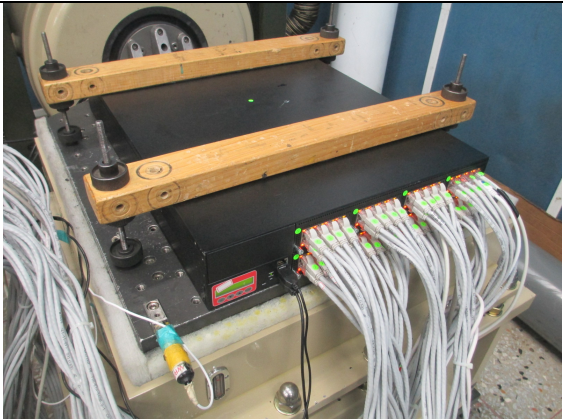
Shock test (Non-Operating)

Wave Form : Half Sine wave  
 Acceleration : 20 g  
 Duration Time : 11 mS  
 No. of Shock : Each axis 3 times  
 Shock Direction :  $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axis

### TEST RESULT :



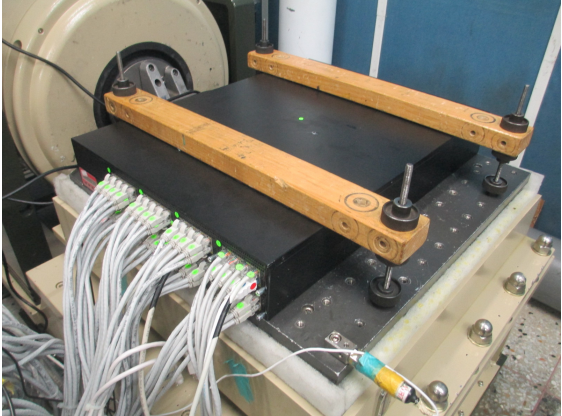
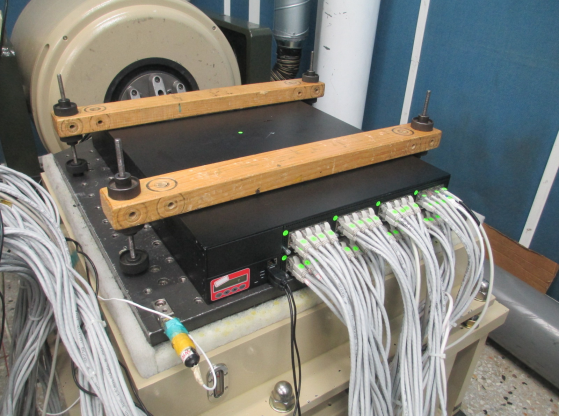
Describe	PASS	FAIL	Non-Judgment
Function judgment <sup>(1)</sup>	√	---	---
Appearance check <sup>(2)</sup>	√	---	---
(1)—Booting function was normal after the test.			
(2)—No visible damages were found.			

## TESTING / INSPECTION REPORT

Testing photos (Operating)	
<b>Tester</b>	<b>±Z axis</b>
	
<b>±X axis</b>	<b>±Y axis</b>
	



## TESTING / INSPECTION REPORT

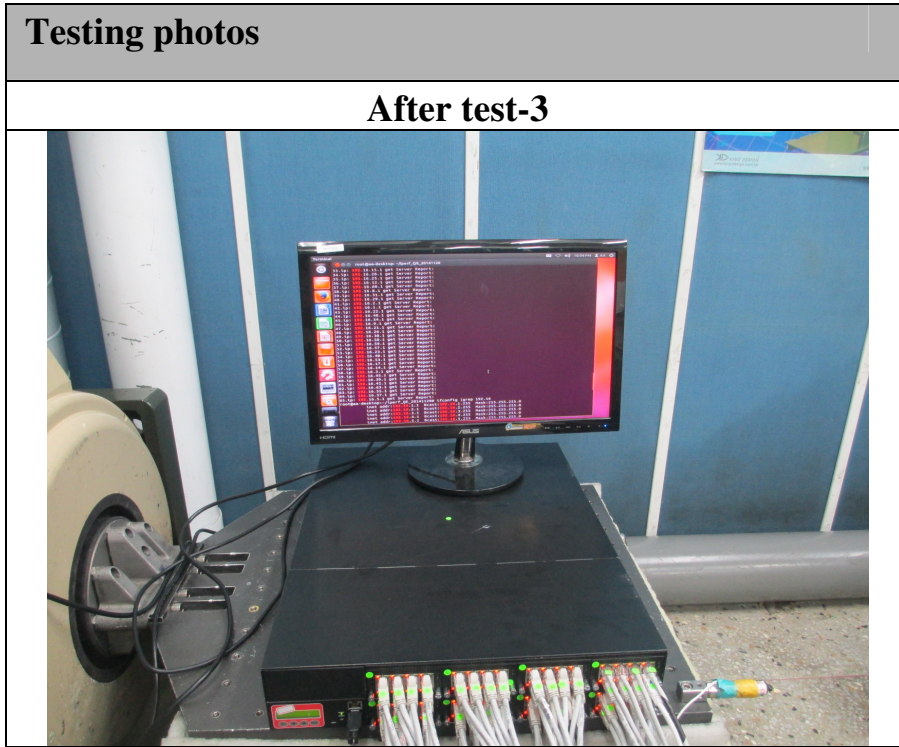
Testing photos (Non-Operating)	
<b>Tester</b>	<b>±Z axis</b>
	
<b>±X axis</b>	<b>±Y axis</b>
	

## TESTING / INSPECTION REPORT

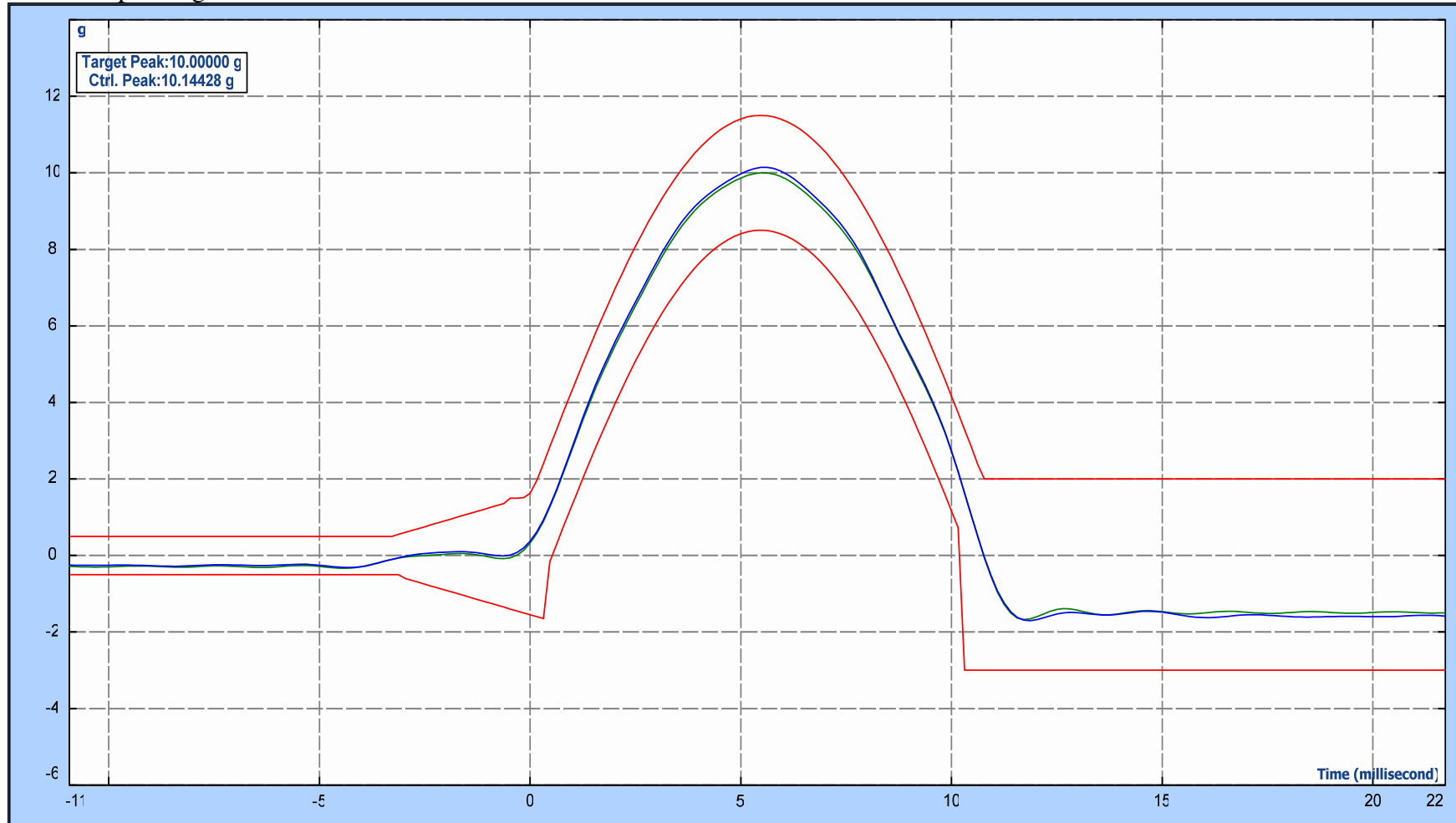




## TESTING / INSPECTION REPORT



+X axis Operating



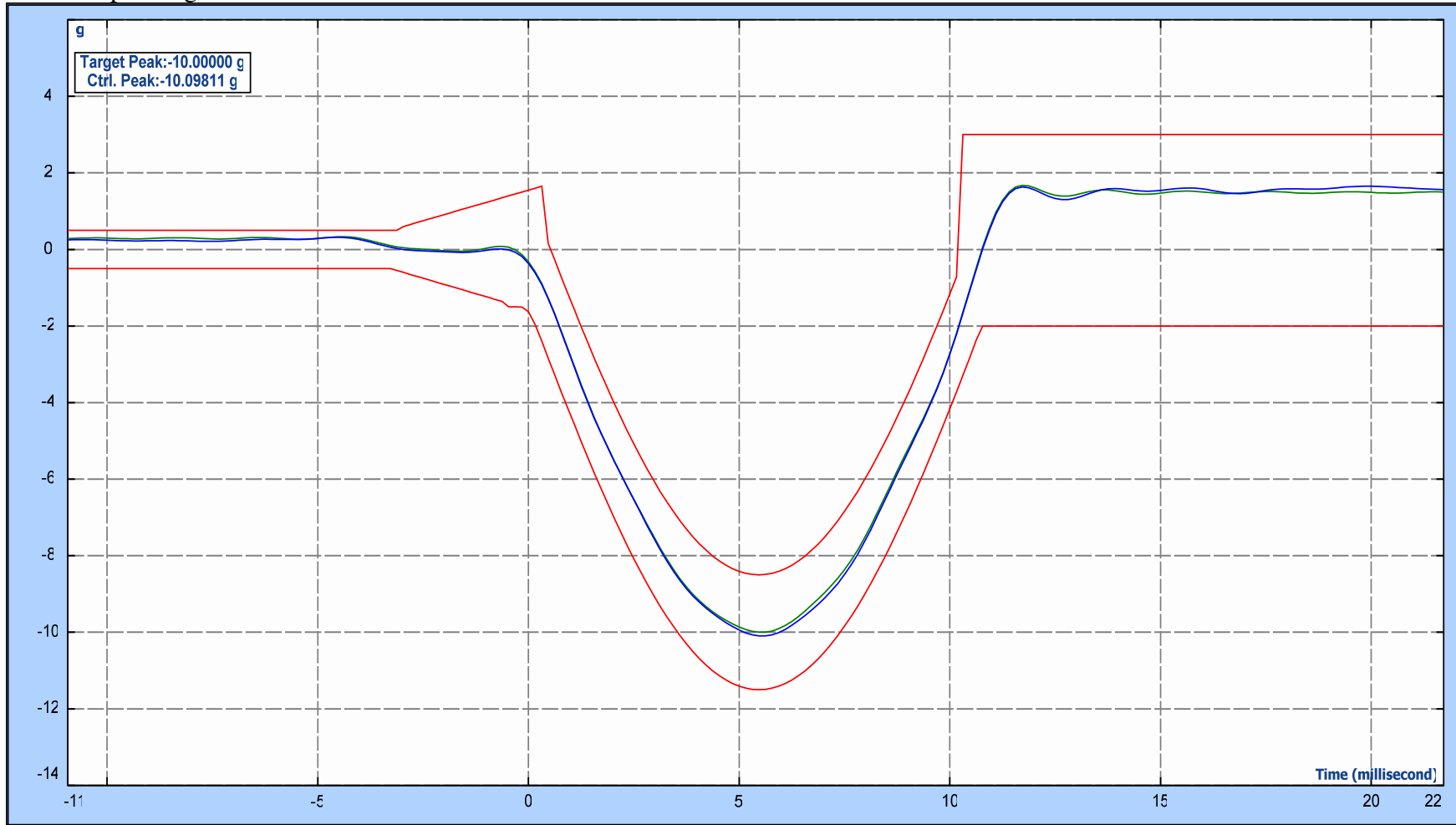
Level: 100.00 %  
 Velocity Pk: 367.8 mm/s  
 Control RMS: 1.039 g  
 Full Level Elapsed: 3.0

Drive Pk: 0.583V  
 Control Pk: 10.14 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 9.453 mm Pk-Pk  
 Target Pk: 10.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.31308(ms)



-X axis Operating

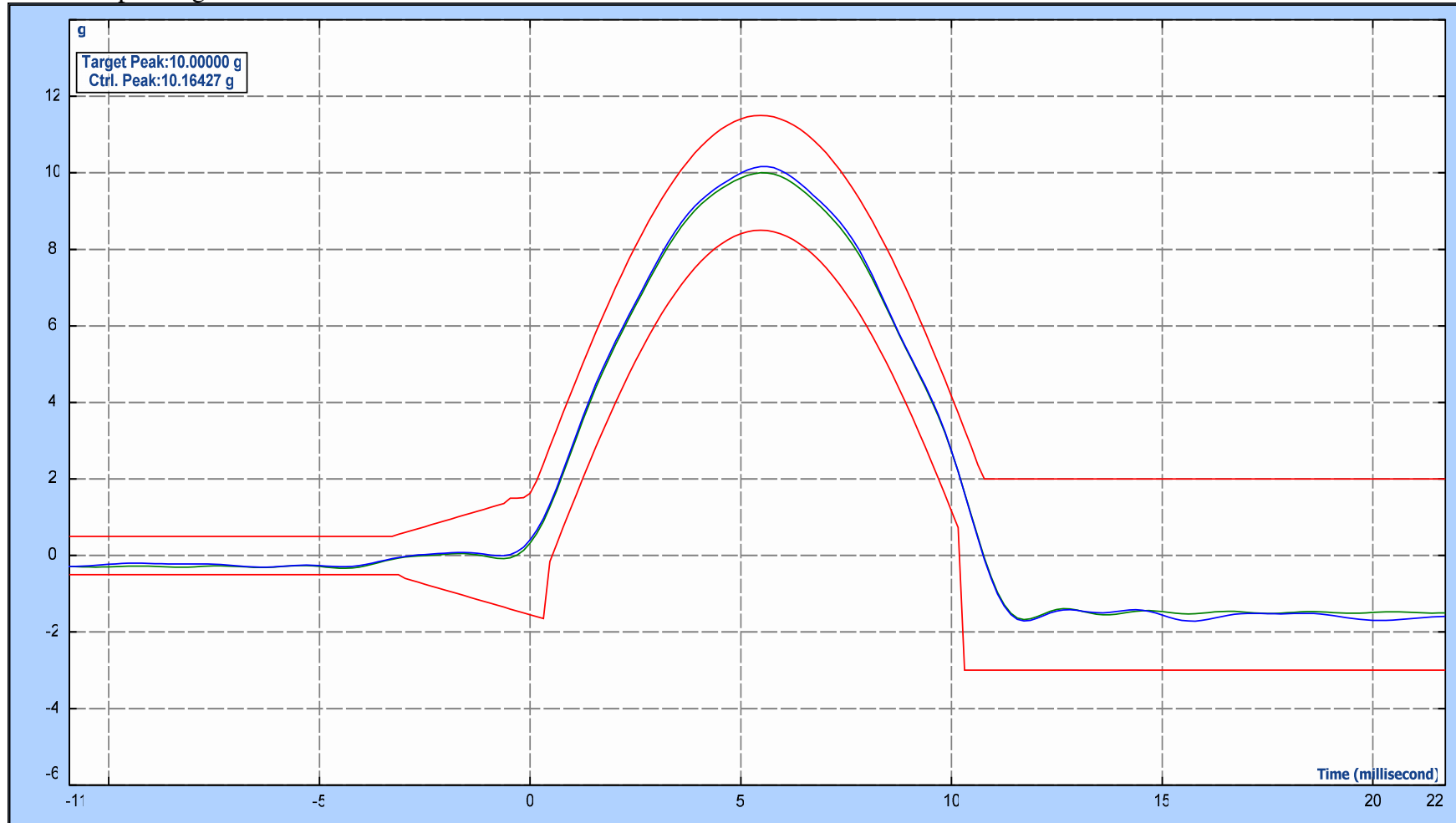


Level: -100.00 %  
 Velocity Pk: 367.7 mm/s  
 Control RMS: 1.036 g  
 Full Level Elapsed: 3.0

Drive Pk: -6.0e-1V  
 Control Pk: -10.10 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 9.443 mm Pk-Pk  
 Target Pk: -10.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.30759(ms)

+Y axis Operating



Level: 100.00 %

Velocity Pk: 368.0 mm/s

Control RMS: 1.040 g

Full Level Elapsed: 3.0

Drive Pk: 0.584V

Control Pk: 10.16 g

Remaining: 0.0

Pulse width: 11.00 ms

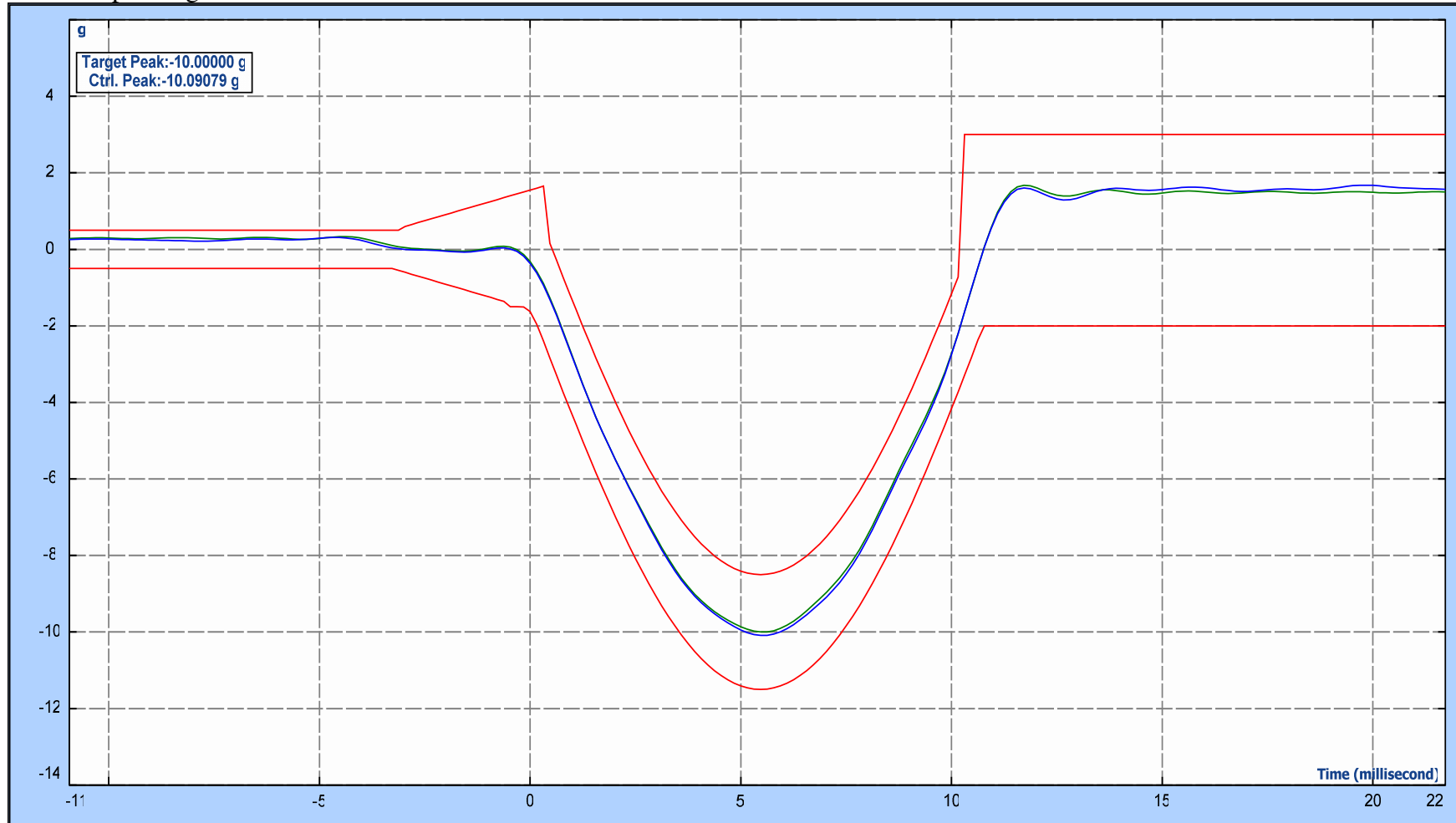
Est. Disp. : 9.460 mm Pk-Pk

Target Pk: 10.00 g

Total Elapsed: 17.0

Measured Pulse width: 11.35241(ms)

-Y axis Operating

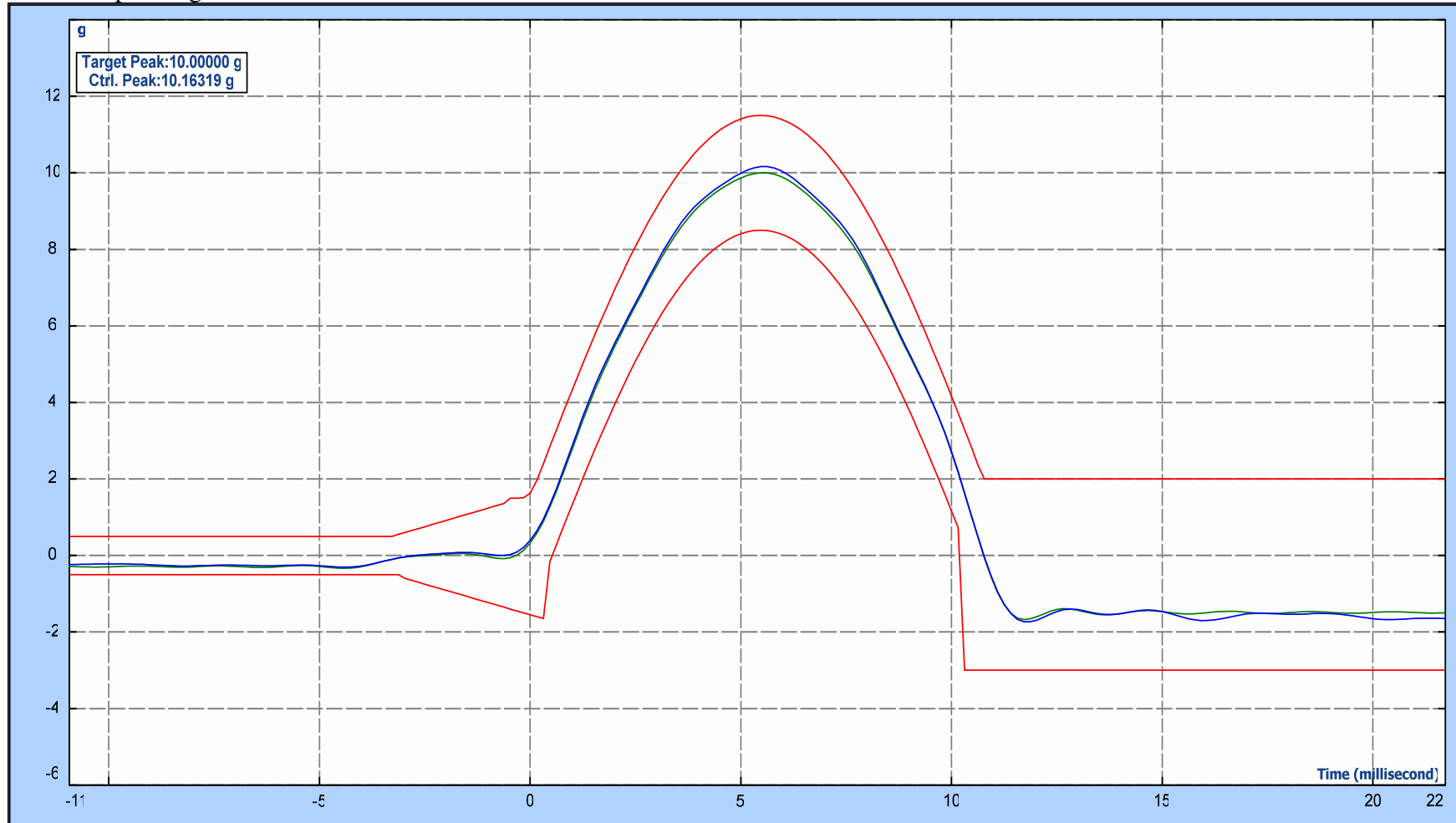


Level: -100.00 %  
 Velocity Pk: 368.1 mm/s  
 Control RMS: 1.036 g  
 Full Level Elapsed: 3.0

Drive Pk: -6.0e-1V  
 Control Pk: -10.09 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 9.452 mm Pk-Pk  
 Target Pk: -10.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.20341(ms)

+Z axis Operating



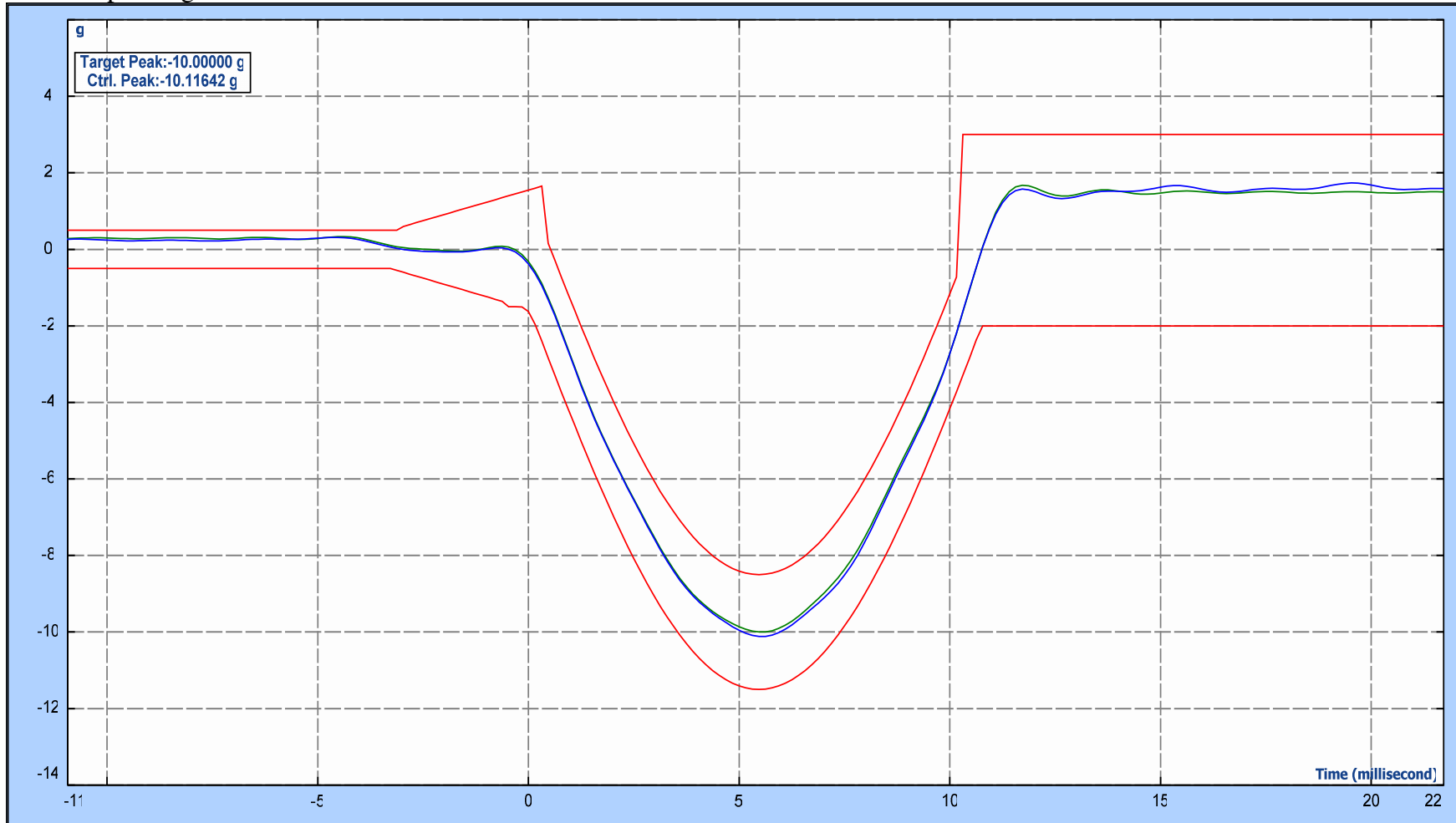
Level: 100.00 %  
 Velocity Pk: 367.6 mm/s  
 Control RMS: 1.039 g  
 Full Level Elapsed: 3.0

Drive Pk: 0.583V  
 Control Pk: 10.16 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 9.444 mm Pk-Pk  
 Target Pk: 10.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.39282(ms)



-Z axis Operating

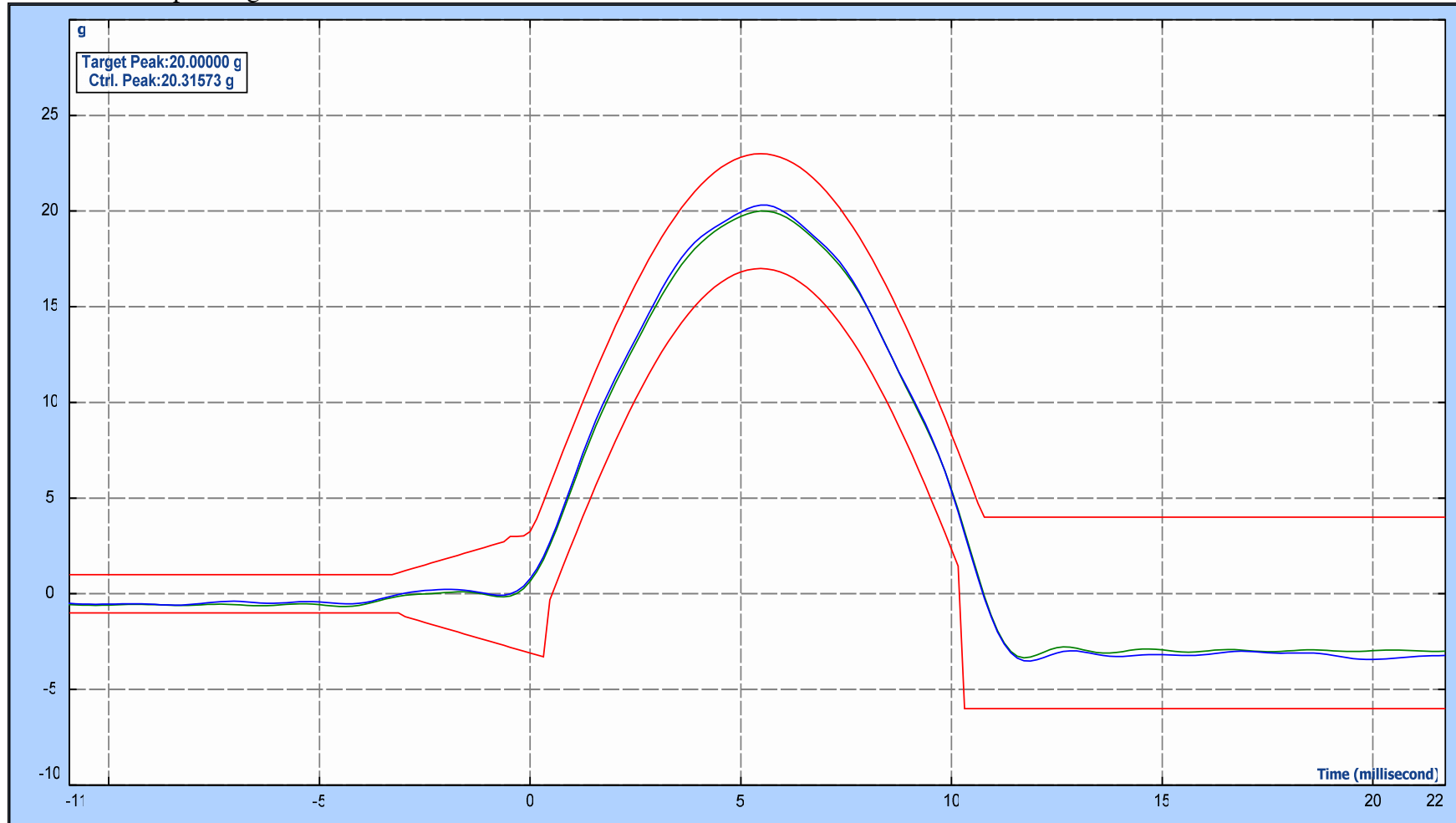


Level: -100.00 %  
 Velocity Pk: 368.1 mm/s  
 Control RMS: 1.037 g  
 Full Level Elapsed: 3.0

Drive Pk: -6.0e-1V  
 Control Pk: -10.12 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 9.449 mm Pk-Pk  
 Target Pk: -10.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.22371(ms)

+X axis Non-Operating

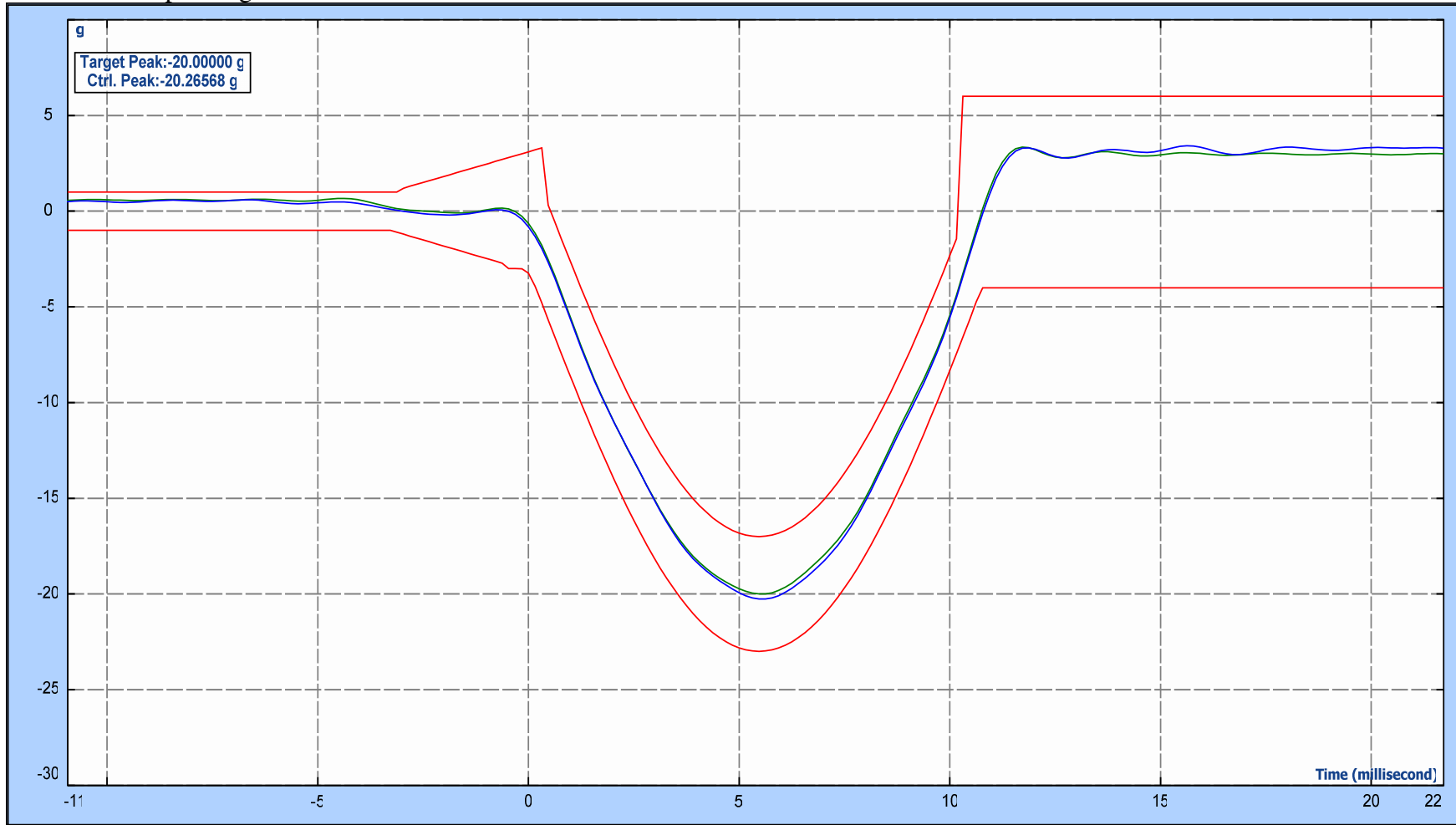


Level: 100.00 %  
 Velocity Pk: 735.8 mm/s  
 Control RMS: 2.078 g  
 Full Level Elapsed: 3.0

Drive Pk: 1.158V  
 Control Pk: 20.32 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 18.87 mm Pk-Pk  
 Target Pk: 20.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.20638(ms)

-X axis Non-Operating

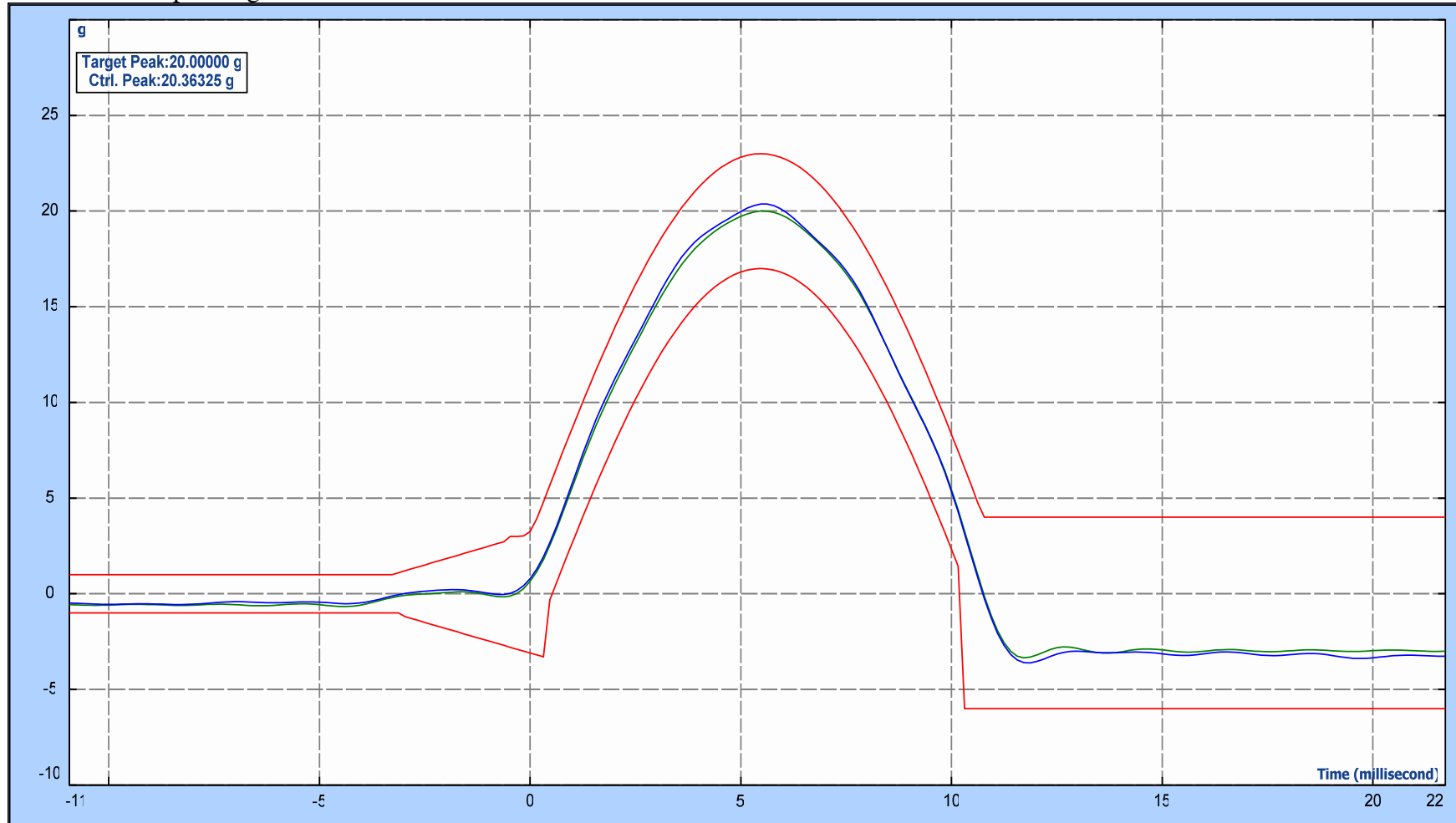


Level: -100.00 %  
 Velocity Pk: 735.0 mm/s  
 Control RMS: 2.074 g  
 Full Level Elapsed: 3.0

Drive Pk: -1.2e+0V  
 Control Pk: -20.27 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 18.83 mm Pk-Pk  
 Target Pk: -20.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.27595(ms)

+Y axis Non-Operating



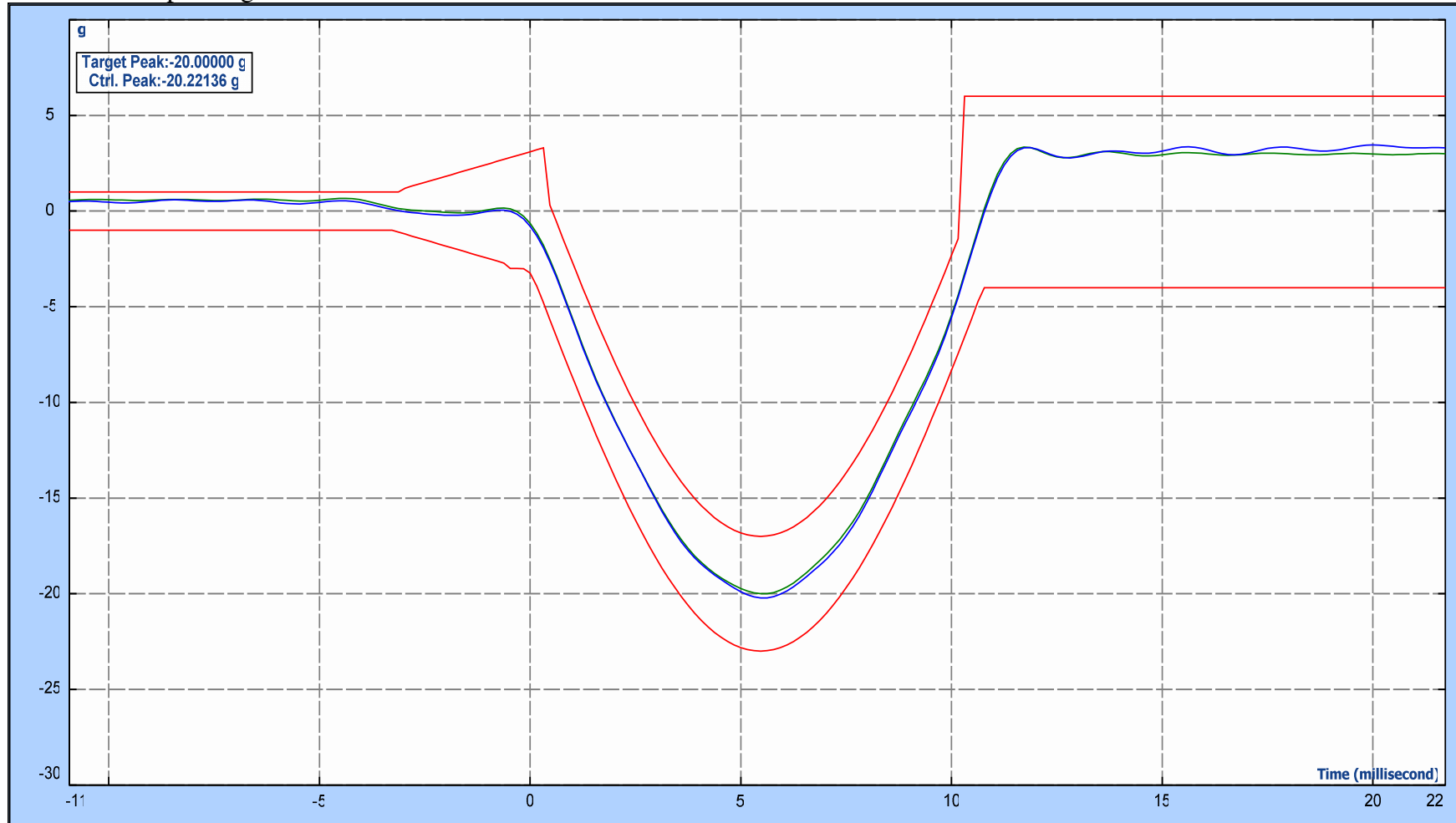
Level: 100.00 %  
 Velocity Pk: 735.6 mm/s  
 Control RMS: 2.077 g  
 Full Level Elapsed: 3.0

Drive Pk: 1.159V  
 Control Pk: 20.36 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 18.86 mm Pk-Pk  
 Target Pk: 20.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.26471(ms)



-Y axis Non-Operating

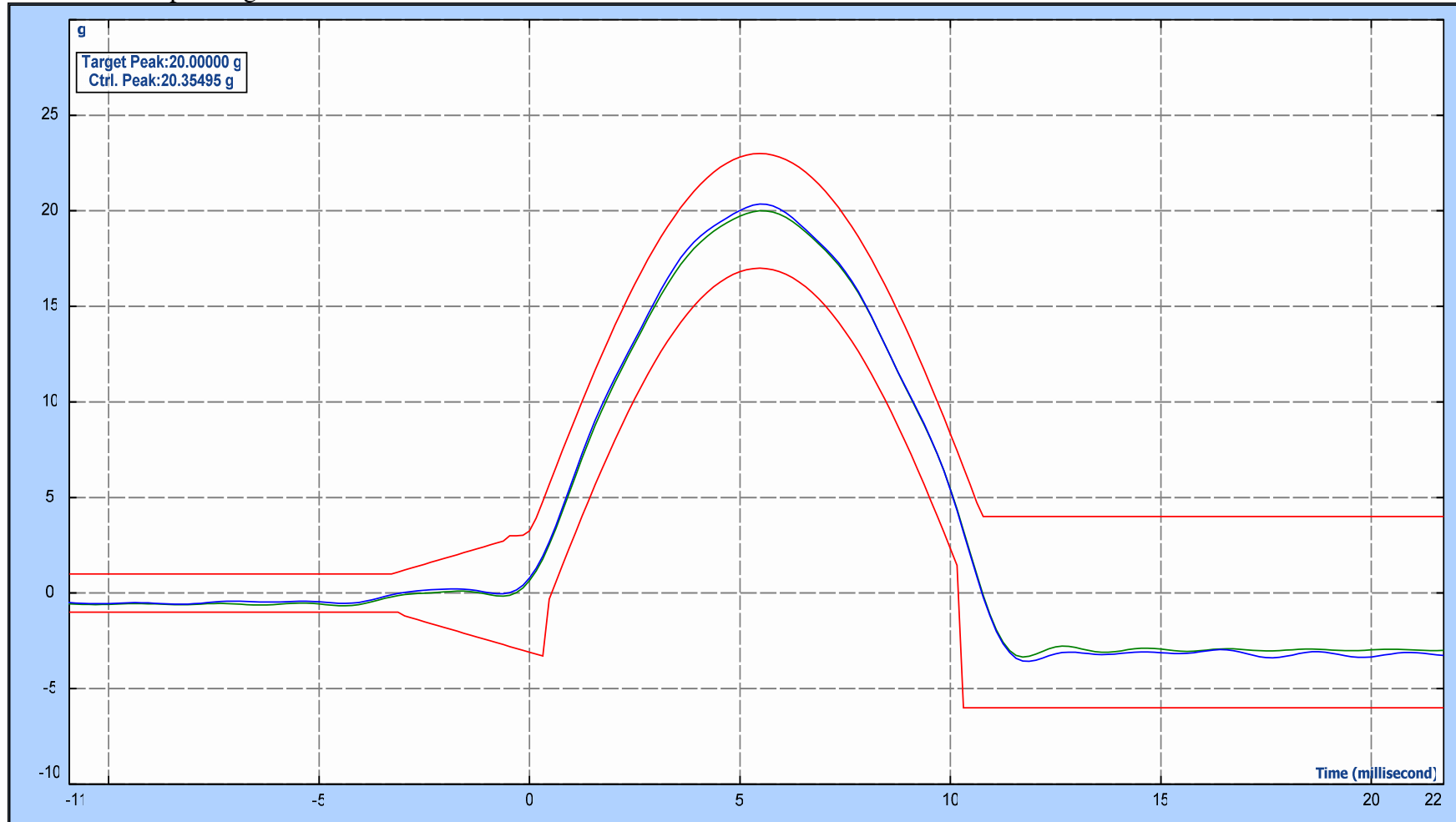


Level: -100.00 %  
 Velocity Pk: 734.7 mm/s  
 Control RMS: 2.072 g  
 Full Level Elapsed: 3.0

Drive Pk: -1.2e+0V  
 Control Pk: -20.22 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 18.84 mm Pk-Pk  
 Target Pk: -20.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.29516(ms)

+Z axis Non-Operating

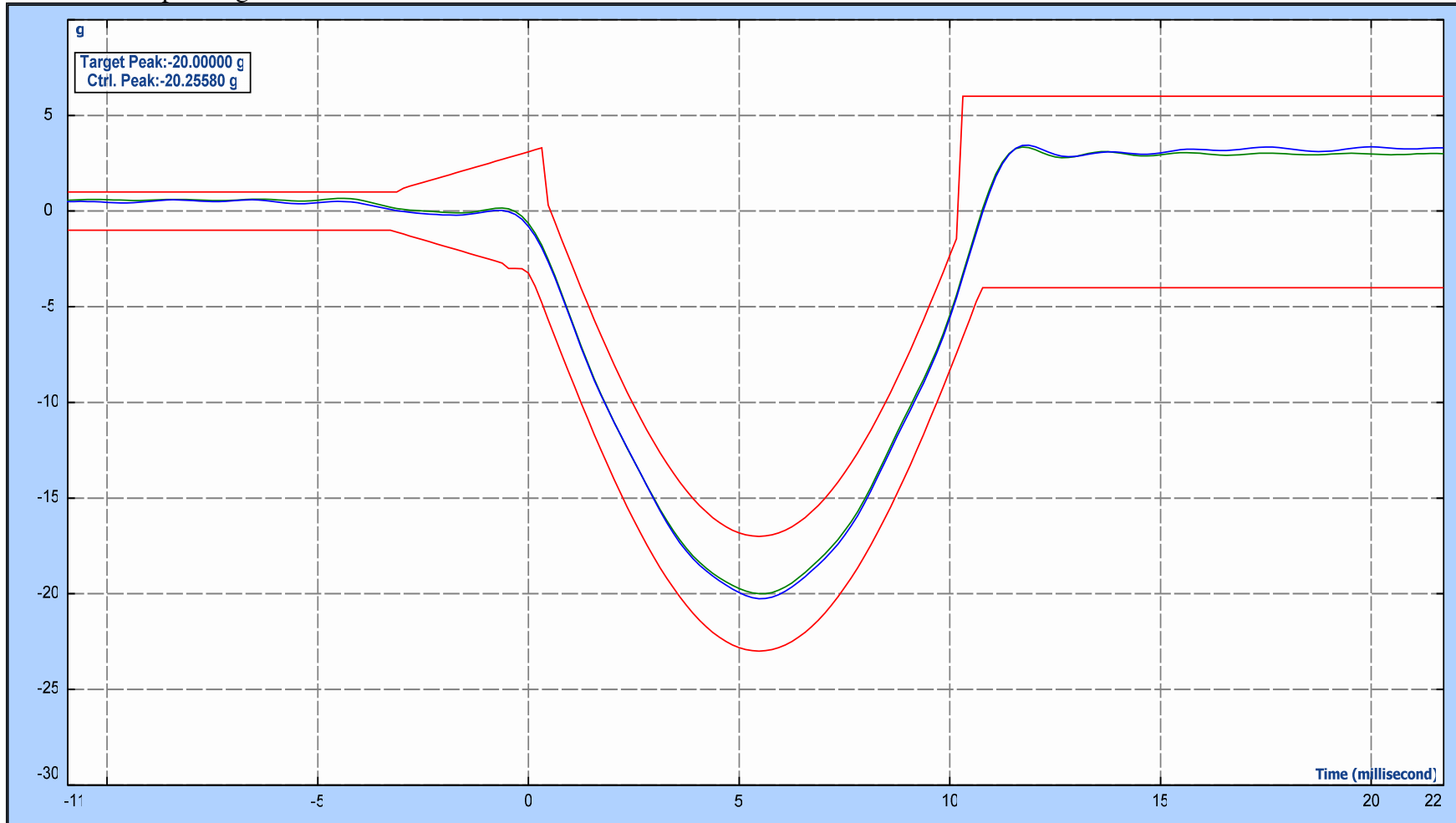


Level: 100.00 %  
 Velocity Pk: 735.7 mm/s  
 Control RMS: 2.077 g  
 Full Level Elapsed: 3.0

Drive Pk: 1.157V  
 Control Pk: 20.35 g  
 Remaining: 0.0  
 Pulse width: 11.00 ms

Est. Disp. : 18.84 mm Pk-Pk  
 Target Pk: 20.00 g  
 Total Elapsed: 17.0  
 Measured Pulse width: 11.26360(ms)

-Z axis Non-Operating



Level: -100.00 %  
Velocity Pk: 735.4 mm/s  
Control RMS: 2.073 g  
Full Level Elapsed: 3.0

Drive Pk: -1.2e+0V  
Control Pk: -20.26 g  
Remaining: 0.0  
Pulse width: 11.00 ms

Est. Disp. : 18.83 mm Pk-Pk  
Target Pk: -20.00 g  
Total Elapsed: 17.0  
Measured Pulse width: 11.34698(ms)

-END-