

KING DESIGN INDUSTRIAL CO., LTD.

5F, NO. 3, Lane 270, Pei Shen Road Sec. 3,
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VIBRATION TEST LABORATORY

<http://www.kdi.tw>
<http://www.vibration.com.tw>
E-mail:service@kdi.tw**TESTING / INSPECTION REPORT**

REPORT NO : VT-201204-2



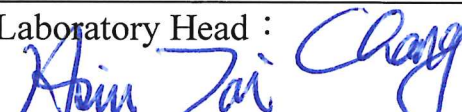
COMPANY : PERFECTRON Co., Ltd.
ADDRESS : 2F., No.190, Sec. 2, Zhongxing Rd.,
Xindian Dist., New Taipei City 23146, Taiwan
TEL : +886-2-8911-8077
FAX : +886-2-8911-2324
SPECIMEN : SCH200
DATE OF RECEIVED : 2020/10/21
DATE OF TESTED : 2020/10/21

TEST / INSPECTION ITEMS : Vibration & 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 10 pages, and no part of it may be abstracted or reproduced.

金頓科技

Test Engineer : 	
Approval Signatory :  2020.12.20	Laboratory Head : 

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TESTING / INSPECTION REPORT

TESTING EQUIPMENT :

Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054783

Controller : VCS-913⁺, S/N : 1312416

Control Accelerometer : Wilcoxon Research WR-777, S/N : 4208

Vibration Tester : KING DESIGN KD-9363EM-1500F2K-75N250
S/N : R2109227101
Calibration Date : 2020/01/22
Recommended Recall Date : 2021/01/21

Vibration Controller : Crystal Instruments Spider-81, S/N : 990048

Control Accelerometer : PCB Piezotronics 356A32/NC, S/N : LW186351
Calibration Date : 2020/01/09
Recommended Recall Date : 2021/01/08

TEST ENVIRONMENT :

Temperature : 24°C (25±10°C)
Relative Humidity : 66%RH (50±25% RH)

SPECIMEN :

Model : SCH200
Quantity : 1 unit

TESTING / INSPECTION REPORT

TEST SPECIFICATION :

(1) Random vibration test (Operating)

Frequency : 10 Hz to 500 Hz
 Acceleration : 3 g rms
 Test Axis : X, Y, Z axis
 Test Time : 30 mins (Each axis)
 Total Test Time : 1.5 hrs

(2) Shock Test (Operating)

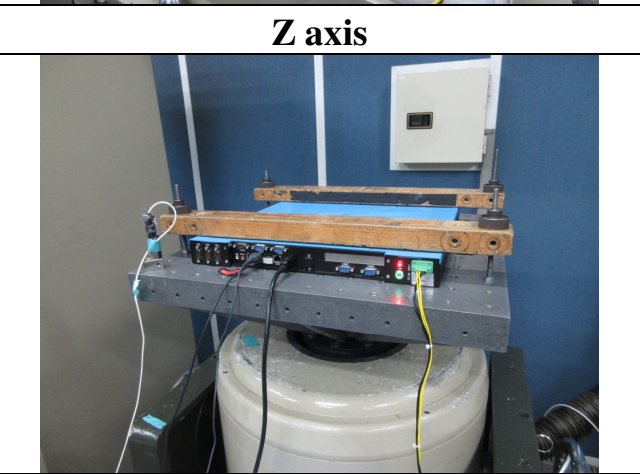
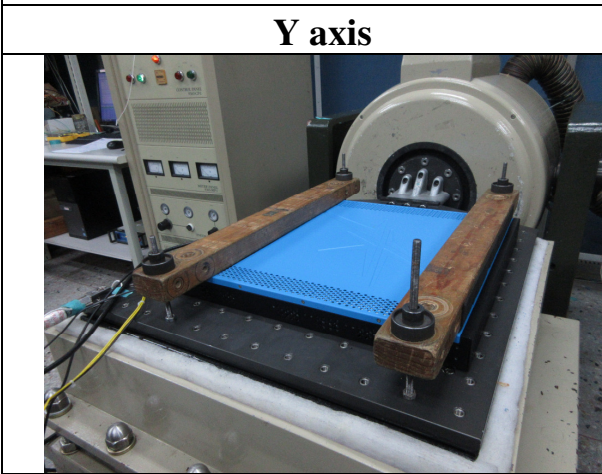
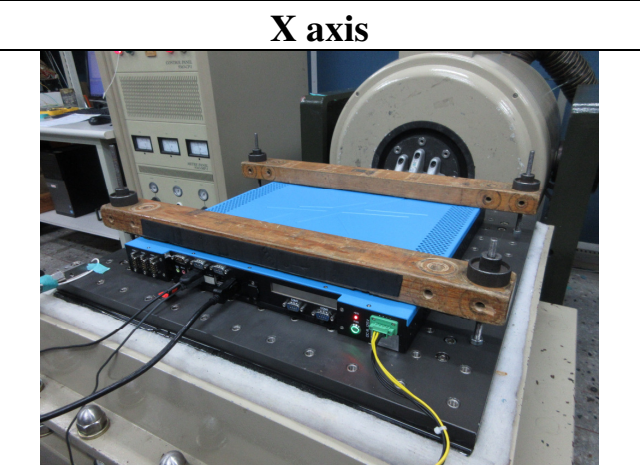
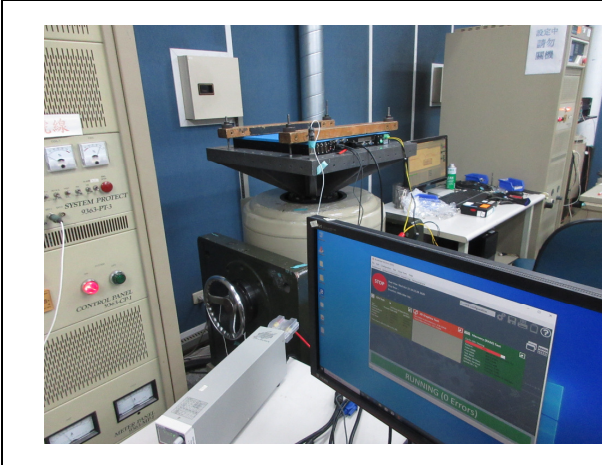
Wave Form : Half Sine Wave
 Acceleration : 6 g
 Duration : 11 ms
 Shock Direction : ±Z axis
 No. of Shock : Each axis 1 time

TEST RESULT :

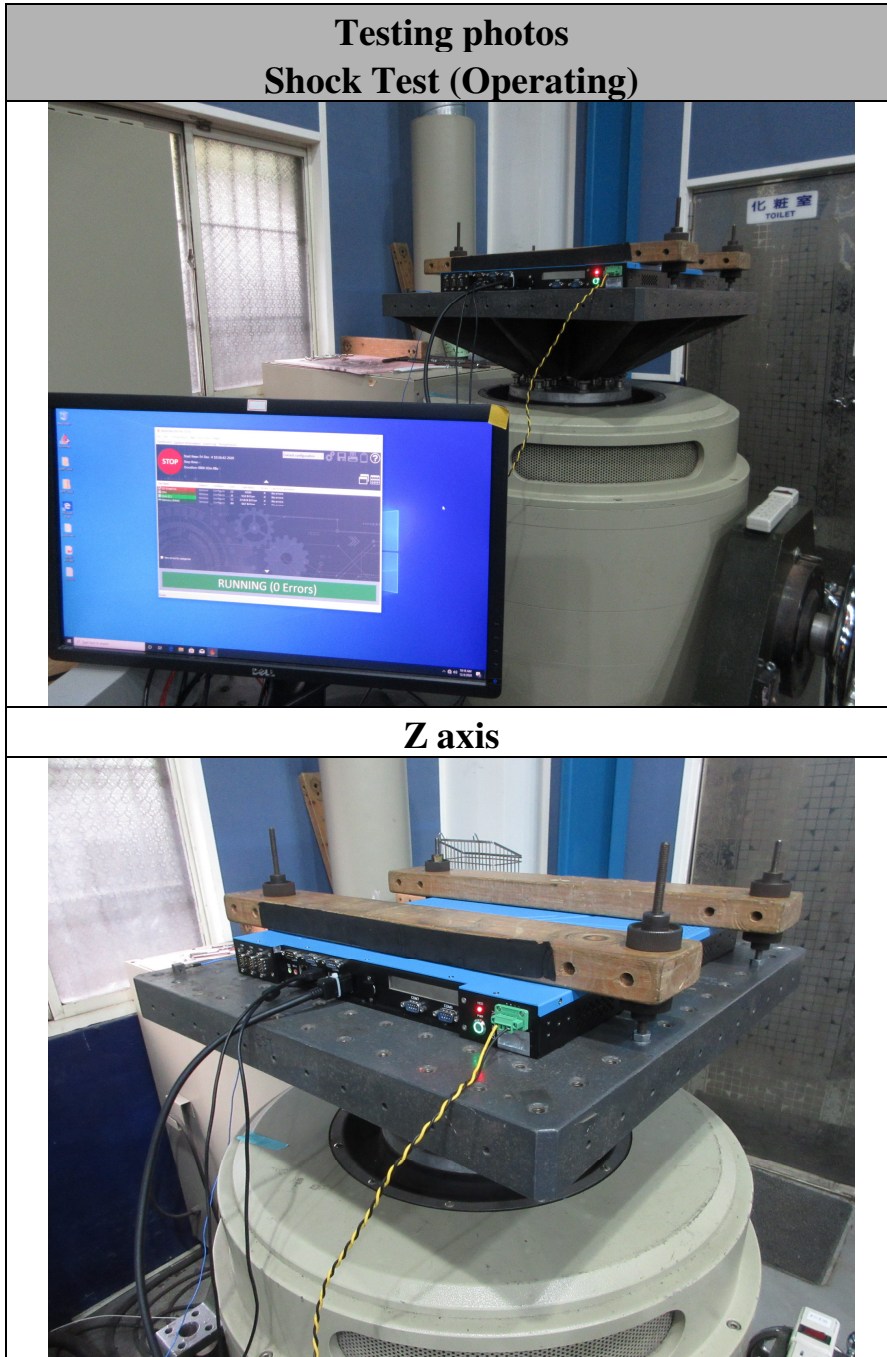
Describe	PASS	FAIL	Non-Judgment
Function judgment	√	---	---
Appearance check	√	---	---
(1) --After completely testing, visual inspection showed no physical defect on packaging or unit. (2) -- This function judgment: Power and interface operation was normal.			

TESTING / INSPECTION REPORT

Testing photos
Vibration Test (Operating)

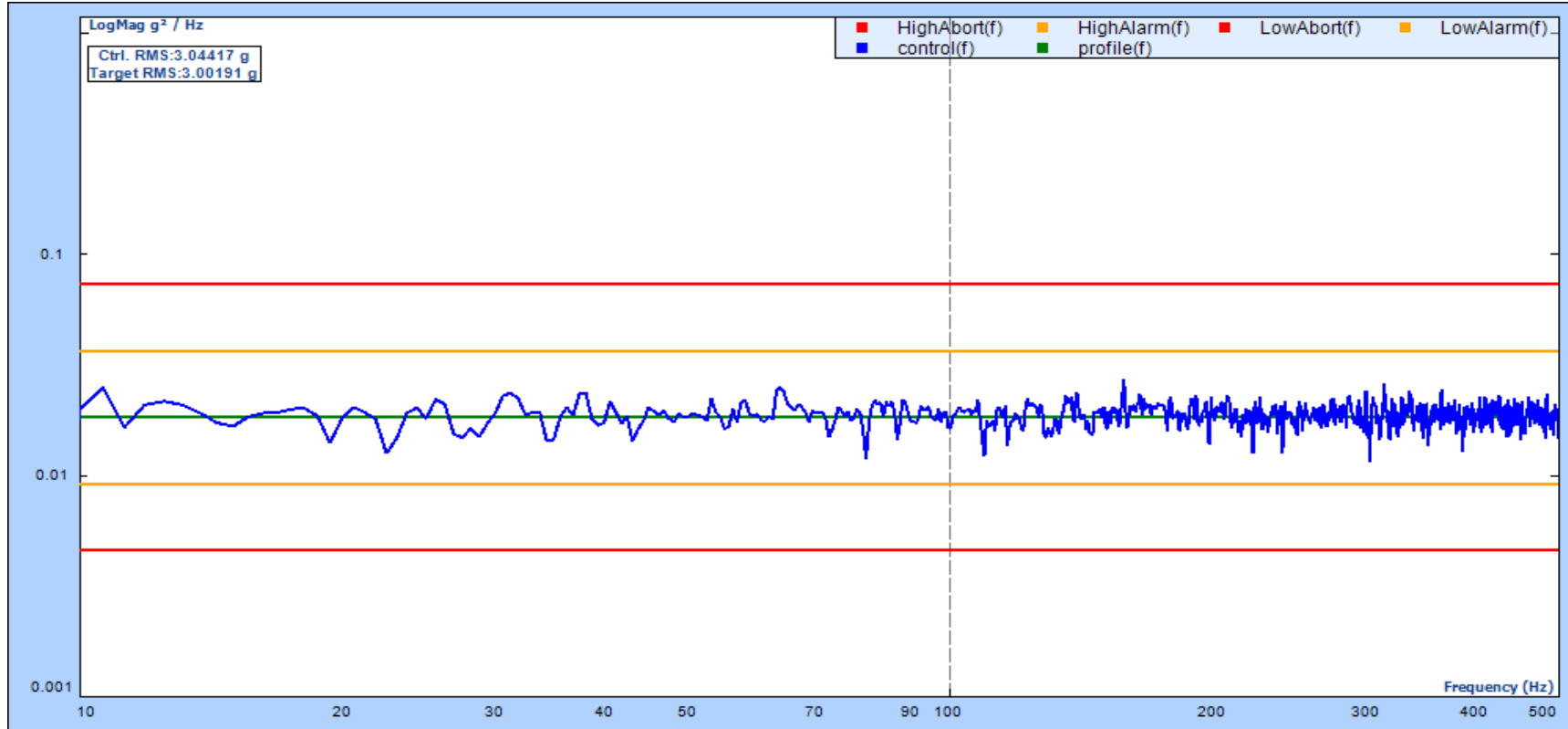


TESTING / INSPECTION REPORT



Vibration Test

X axis



Level: 100.00 %

Velocity Pk: 206.7 mm/s

Remaining: 00:00:00

Block Size/Lines: 2048/800

Delta Frequency: 0.625000

Drive Pk: 3.032V

Control RMS: 3.044 g

Total Elapsed: 00:32:33

Frame Time: 1.6 Seconds

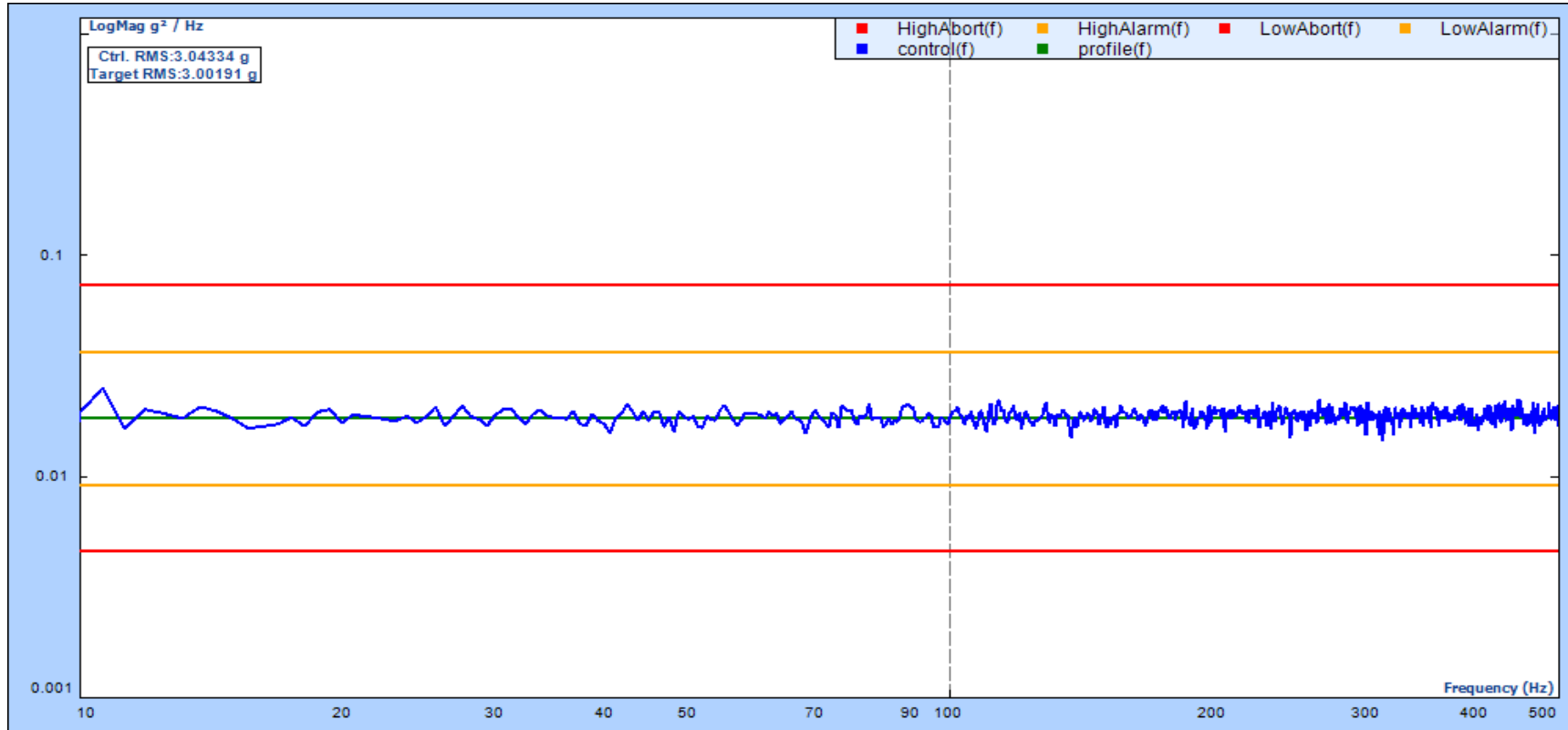
Est. Disp. : 4.031 mm Pk-Pk

Target RMS: 3.000 g

Full Level Elapsed: 00:30:14

DOF: 64

Y axis

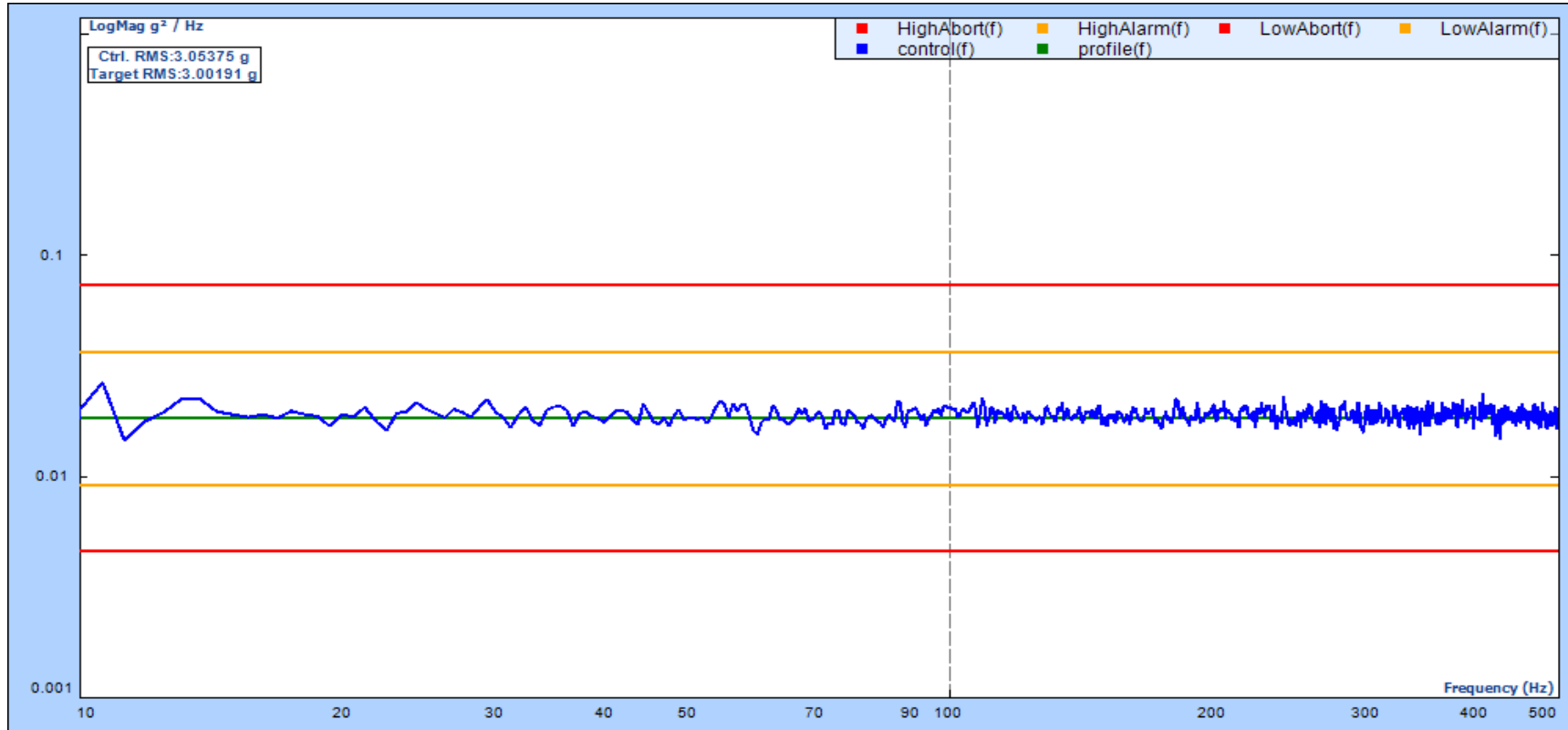


Level: 100.00 %
 Velocity Pk: 205.5 mm/s
 Remaining: 00:00:00
 Block Size/Lines: 2048/800
 Delta Frequency: 0.625000

Drive Pk: 1.821V
 Control RMS: 3.043 g
 Total Elapsed: 00:32:12
 Frame Time: 1.6 Seconds

Est. Disp. : 3.994 mm Pk-Pk
 Target RMS: 3.000 g
 Full Level Elapsed: 00:30:00
 DOF: 64

Z axis



Level: 100.00 %
 Velocity Pk: 208.2 mm/s
 Remaining: 00:00:00
 Block Size/Lines: 2048/800
 Delta Frequency: 0.625000

Drive Pk: 2.318V
 Control RMS: 3.054 g
 Total Elapsed: 00:32:06
 Frame Time: 1.6 Seconds

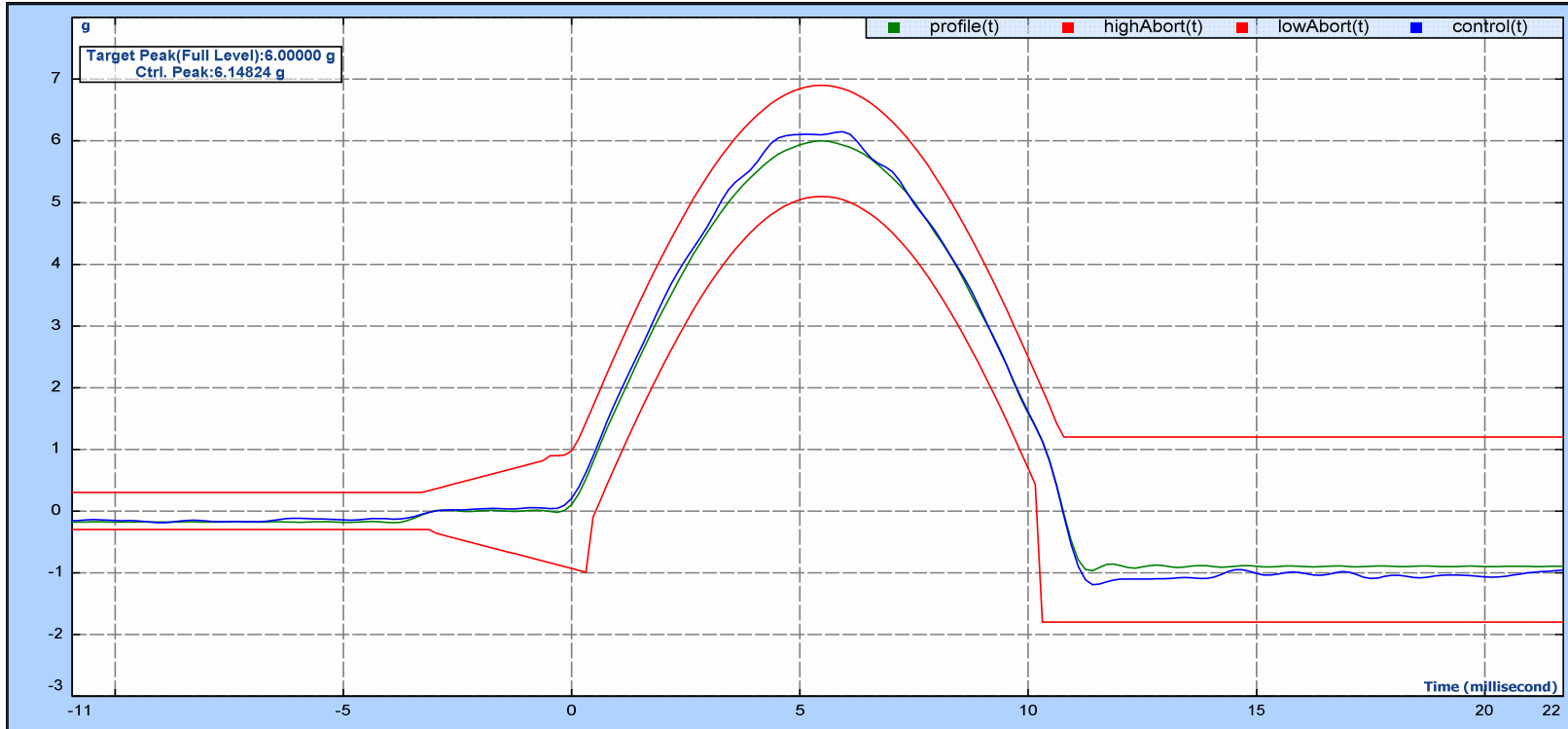
Est. Disp. : 4.044 mm Pk-Pk
 Target RMS: 3.000 g
 Full Level Elapsed: 00:30:00
 DOF: 64

Shock Test

REPORT NO : VT-201204-2

Page 9 of 10

+Z axis



Level: 100.00 %

Velocity Pk: 0.228 m/s

Control RMS: 0.652 g

Full Level Elapsed: 1.0

Control Displacement: 5.80277 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 0.654V

Control Pk: 6.148 g

Remaining: 1.0

Pulse width: 11.00 ms

Control Velocity: 0.22818 Pk m/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 5.803 mm Pk-Pk

Target Pk: 6.000 g

Total Elapsed: 17.0

Measured Pulse width: 13.73703(ms)

Block T / Size: 0.64 Seconds / 4096

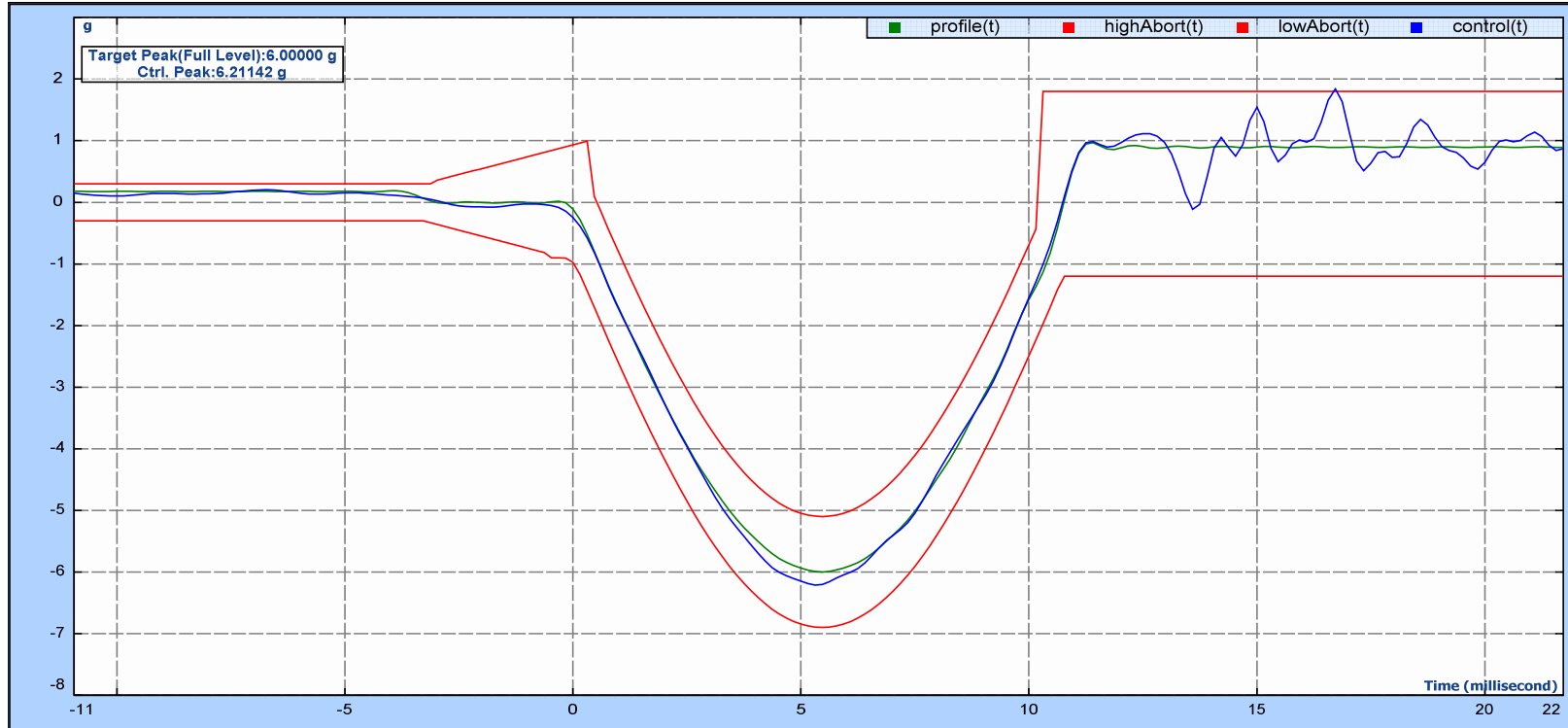
Frequency Range (fa): 2500.00 Hz

Shock Test

REPORT NO : VT-201204-2

Page 10 of 10

-Z axis



Level: 100.00 %

Velocity Pk: 0.219 m/s

Control RMS: 0.651 g

Full Level Elapsed: 1.0

Control Displacement: 5.73740 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 0.663V

Control Pk: 6.211 g

Remaining: 1.0

Pulse width: 11.00 ms

Control Velocity: 0.21881 Pk m/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 5.737 mm Pk-Pk

Target Pk: 6.000 g

Total Elapsed: 17.0

Measured Pulse width: 13.59917(ms)

Block T / Size: 0.64 Seconds / 4096

Frequency Range (fa): 2500.00 Hz

-END-