

**KING DESIGN INDUSTRIAL CO., LTD.**5F, 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 TEST LABORATORY**<http://www.kdi.tw>  
<http://www.vibration.com.tw>  
E-mail: [service@kdi.tw](mailto:service@kdi.tw)**TESTING / INSPECTION REPORT**

REPORT NO : VT-160816-2

COMPANY : PERFECTRON Co., Ltd.

ADDRESS : 2F., No.190, Sec. 2, Zhongxing Rd.,  
Xindian Dist., New Taipei City 23146, Taiwan (R.O.C.)

TEL : +886-2-8911-8077

FAX : +886-2-8911-2324

SPECIMEN : SR10-XXX

DATE OF RECEIVED : 2016/08/11

DATE OF TESTED : 2016/08/11

TEST / INSPECTION ITEMS : Vibration 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 9 pages, and no part of it may be abstracted or reproduced.

Test Engineer :

*Peter Peng*

Approval Signatory :

*David Lee*

Laboratory Head :

*Cheng Hsin Zai*

金頓科技

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## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

Vibration Tester : KING DESIGN KD-9363EM-1000F2K-50N120,  
S/N : GUG02102091  
Controller : DACTRON LASER USB, S/N : 12448370  
Control Accelerometer : WILCOXON RESEARCH WR-784A, S/N : 23116  
Measuring Accelerometer : ENDEVCO, Model : 2250AM1-10 S/N : 18897

### TEST ENVIRONMENT :

Temperature : 25°C (25±10°C)  
Relative Humidity : 65%RH (50±25% RH)

### SPECIMEN :

Model : SR10-XXX  
Quantity : 1 unit

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## TESTING / INSPECTION REPORT

### TEST SPECIFICATION :

#### (1)Random vibration test-Operating (Resonance Search)

Frequency : 20 Hz to 2000 Hz  
 Acceleration : 10 g rms  
 P.S.D. : 0.0675566 g<sup>2</sup>/Hz (20 Hz)  
           0.0675566 g<sup>2</sup>/Hz (1000 Hz)  
           0.0168891 g<sup>2</sup>/Hz (2000 Hz)  
 Test Axis : X, Y, Z axis  
 Test Time : 1 hr (Each axis)  
 Total Test Time : 3 hrs

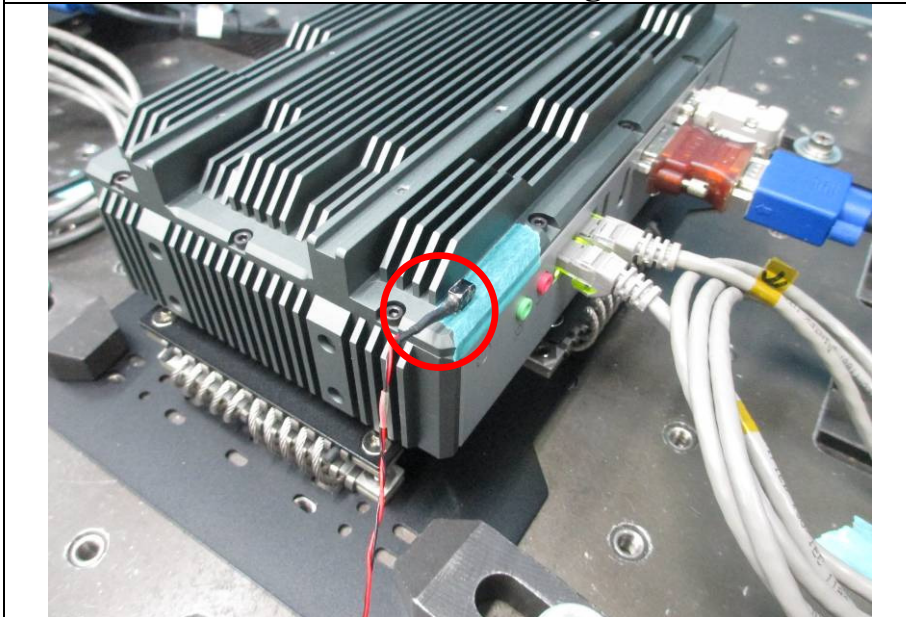
### TEST RESULT :

Describe	PASS <sup>(1)</sup>	FAIL	Non-Judgment
Function judgment	√	---	---
Appearance check	√	---	---
(1)-- After completely testing, no loose screws and visible damages were found. Power and interface operation was normal.			

## TESTING / INSPECTION REPORT

### Testing photos

#### Sensor measuring





## TESTING / INSPECTION REPORT

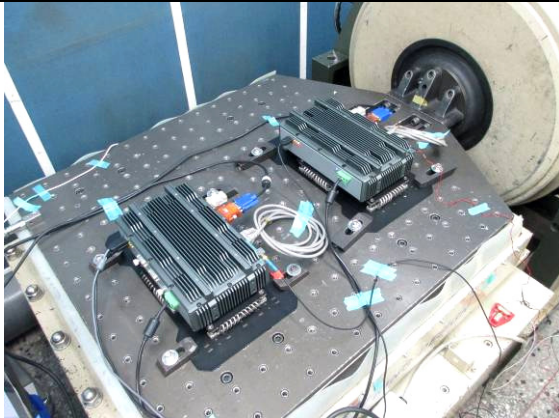
### Testing photos (Operating)



**X axis**



**Y axis**



**Z axis**

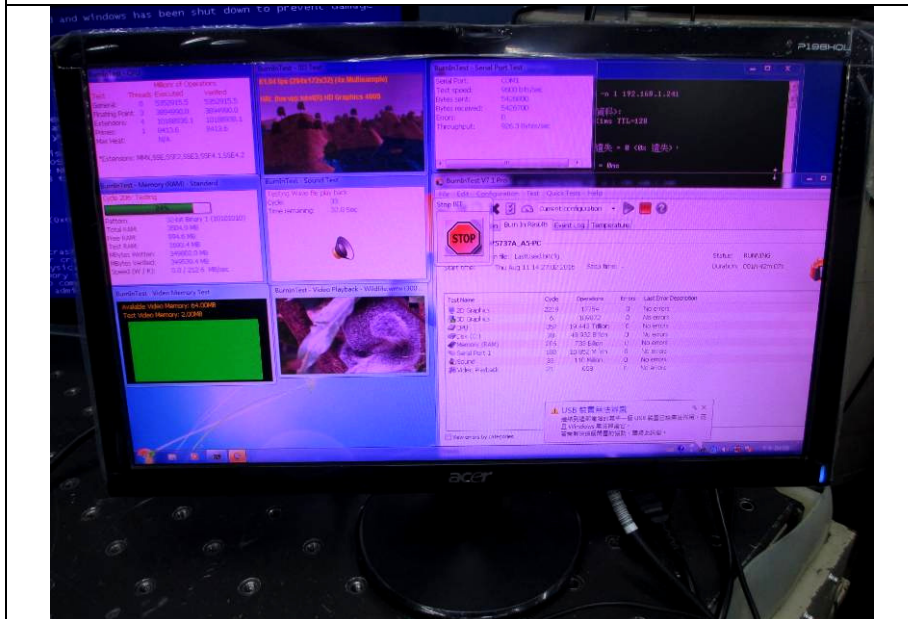


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## TESTING / INSPECTION REPORT

### Testing photos

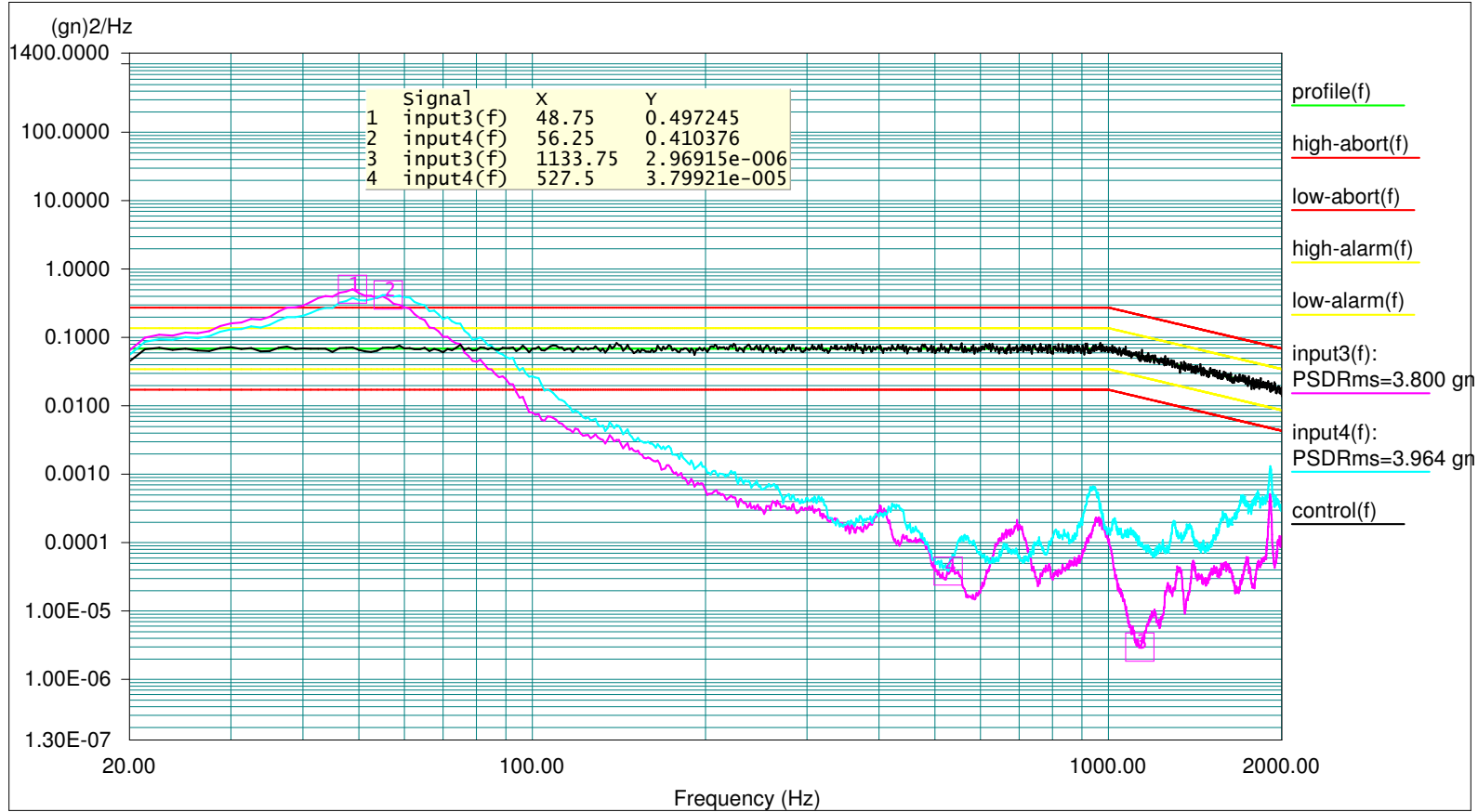
#### After test



X axis

Project File Name: 20-2000Hz .prj

Profile Name: Test Type: Random Run Folder: .\RunDefault



Level: 100 %

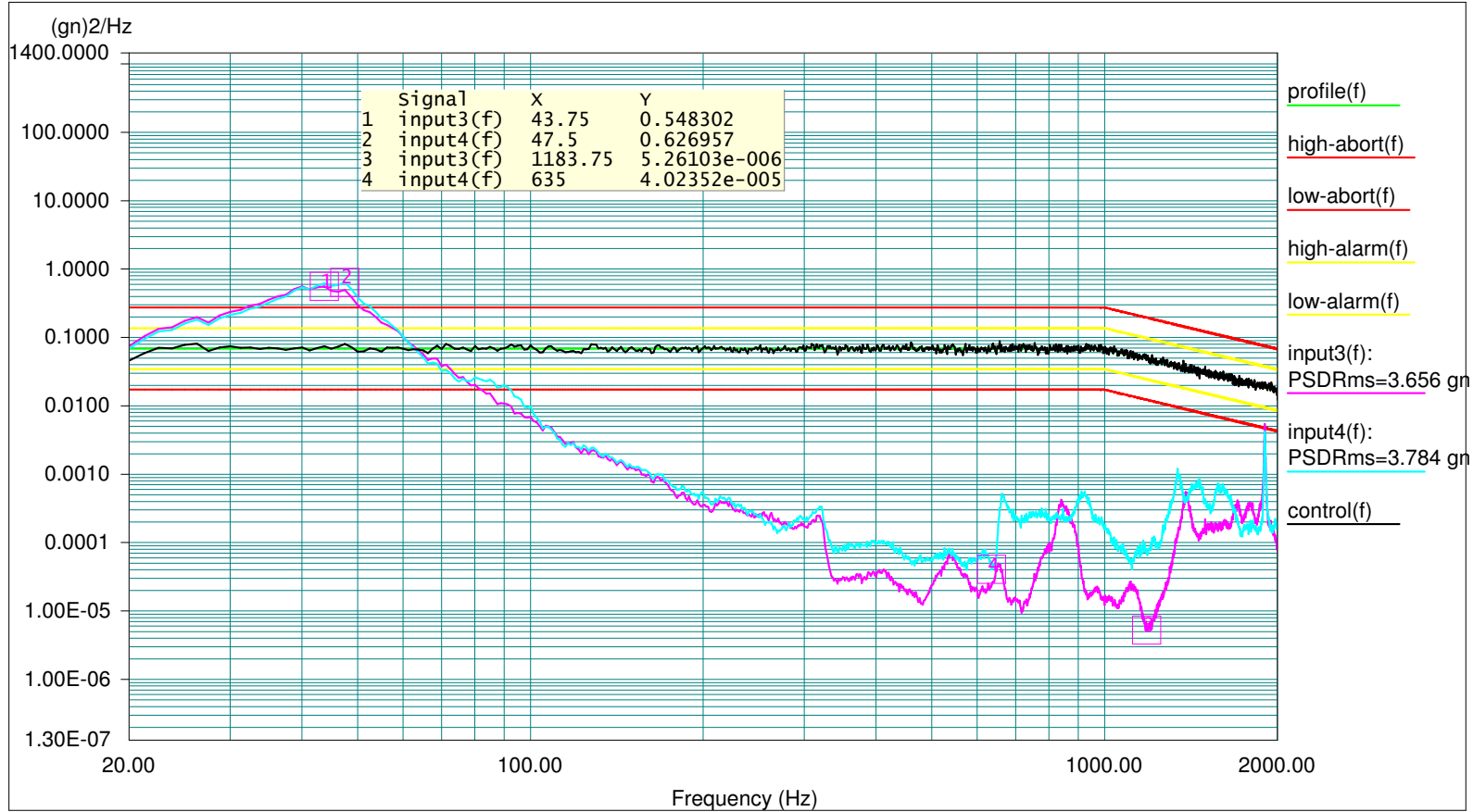
Control RMS: 10.029342 gn Full Level Elapsed Time: 01:00:00 Lines: 1600 Frame Time: 0.800000 Seconds

Demand RMS: 10.001100 gn Remaining Time: 00:00:00 DOF: 154 dF: 1.250000 Hz

Y axis

Project File Name: 20-2000Hz .prj

Profile Name: Test Type: Random Run Folder: .\RunDefault



Level: 100 %

Control RMS: 10.023796 gn Full Level Elapsed Time: 01:00:00 Lines: 1600 Frame Time: 0.800000 Seconds

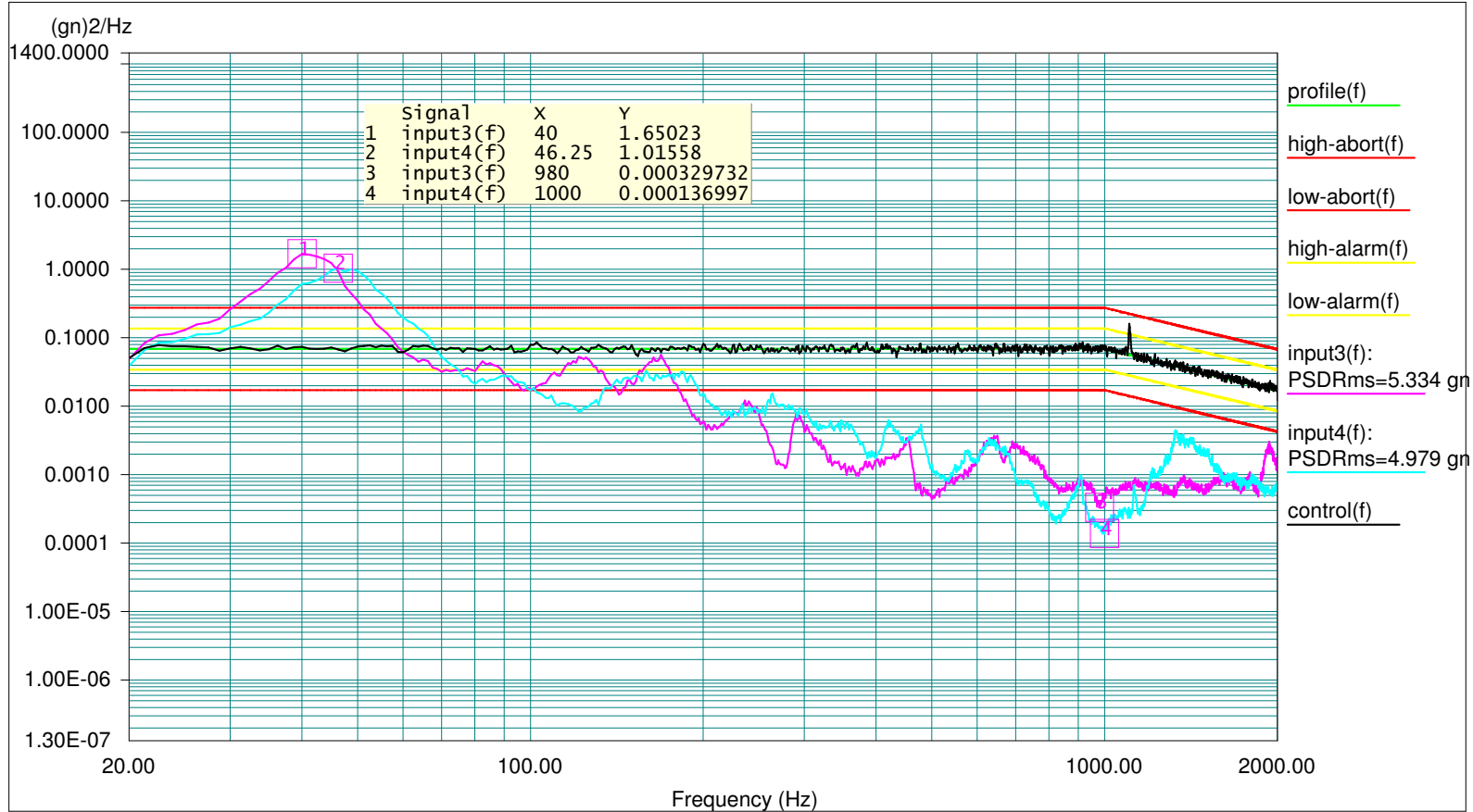
Demand RMS: 10.001100 gn Remaining Time: 00:00:00 DOF: 154 dF: 1.250000 Hz



Z axis

Project File Name: 20-2000Hz .prj

Profile Name: Test Type: Random Run Folder: .\RunDefault



Level: 100 %

Control RMS: 10.395703 gn Full Level Elapsed Time: 01:00:00 Lines: 1600 Frame Time: 0.800000 Seconds

Demand RMS: 10.001100 gn Remaining Time: 00:00:00 DOF: 154 dF: 1.250000 Hz

-END-