

TEST REPORT

Report No.: HC40053B/2020

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Date: May 28, 2020

VECOW CO., LTD.
3F., NO.10, JIANKANG RD.,
ZHONGHE DIST., NEW TAIPEI CITY, TAIWAN

The following merchandise was submitted and identified by the vendor as:

Product Description: High Performance System
Style/ Item No.: SPC-5600A(with Fan Bracket)/ No.1
Quantity: Total 1 set
Testing Period: Apr. 14, 2020 to Apr. 27, 2020

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Low Temperature Test
2. High Temperature Test
3. Random Vibration Test
4. Mechanical Shock Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

* HC40053A/2020, dated on May 25, 2020, is hereby canceled and replaced by HC40053B/2020.

Signed for and on behalf of
SGS TAIWAN Ltd.



Allen Wang
Asst. Supervisor

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1. Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-004

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Relative humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Sample condition: Operating (execute "BurnIn Test")

Test Temperature: -25 °C

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: SPC-5600A(with Fan Bracket)/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual Check)	Functional check
SPC-5600A (with Fan Bracket)/ No.1	No visible damage	Normal

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2. High Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-004

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Relative humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Sample condition: Operating (execute "BurnIn Test")

Test Temperature: 60 °C

Test humidity: 95 % RH

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: SPC-5600A(with Fan Bracket)/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual Check)	Functional check
SPC-5600A (with Fan Bracket)/ No.1	No visible damage	Normal

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3. Random Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	IMV	J260/SA7M	14101899
Controller	IMV	K2	14101899
Control Accelerometer	PCB	353B34	139174
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
Controller	Crystal	spider	1001664
Control Accelerometer	WR	793-6	A4632

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.31/ 33 Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test Method: IEC 60068-2-64, Edition 2.0: 2008

Sample condition: Operating (execute "BurnIn Test")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (g^2/Hz)	Right Slope (dB/Oct.)
5	—	0.05	0
500	0	0.05	—

⇨ equivalent to 5.0 G_{rms}

Direction: X, Y, Z axes

Duration: 30 minutes/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: SPC-5600A(with Fan Bracket)/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5600A (with Fan Bracket)/ No.1	No visible damage	Normal

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4. Mechanical Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95/ 115D	M-17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	190563

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$
 Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test Method: IEC 60068-2-27, Edition 4.0: 2008
 Sample condition: Operating (execute "BurnIn Test")
 Pulse shape: Half-sine
 Acceleration: 50 g
 Pulse duration: 11 ms
 Shock direction: 6 faces ($\pm X, \pm Y, \pm Z$ axes)
 No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: SPC-5600A(with Fan Bracket)/ No.1




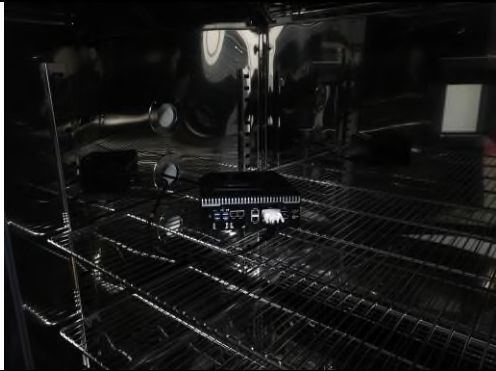


Quantity: Total 1 set

Test Result:

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	SPC-5600A (with Fan Bracket)/ No.1		No visible damage

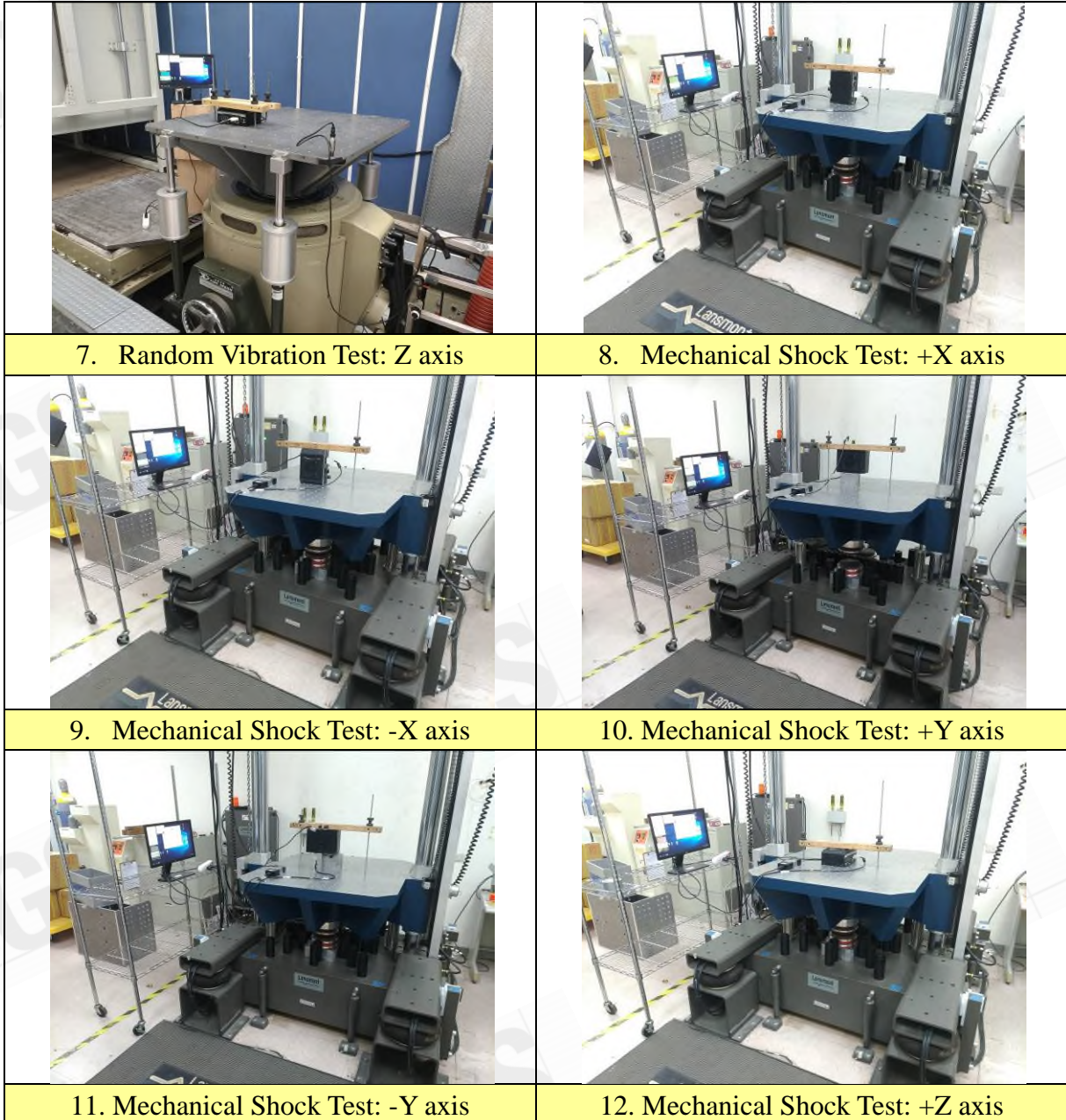
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Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. Low Temperature Test/ High Temperature Test</p>	<p>4. Low Temperature Test/ High Temperature Test</p>
	
<p>5. Random Vibration Test: X axis</p>	<p>6. Random Vibration Test: Y axis</p>

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Test Photos--Continued:

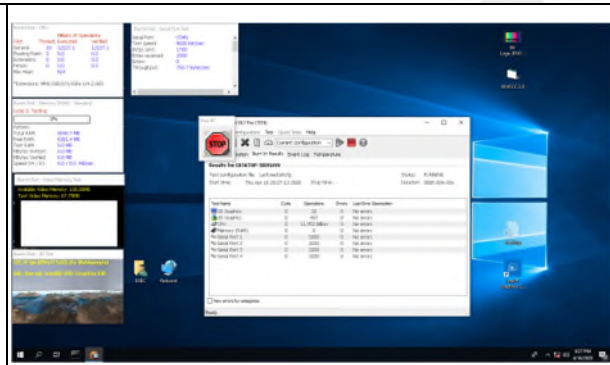


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Test Photos--Continued:



13. Mechanical Shock Test: -Z axis



14. Functional check

— — — The End of Test Report — — —

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