

## TEST REPORT

Report No.: HC30025A/2020  
Page: 1 of 12  
Date: September 4, 2020

### STEALTH

1-7550 HIGHWAY 27, WOODBRIDGE,  
ONTARIO, L4H 0S2, CANADA

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

Product Description: Fanless Embedded System  
Style/ Item No.: WPC-905/ No.1  
Quantity: Total 1 set  
Testing Period: Mar. 9, 2020 to Mar. 12, 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-

\*HC30025A/2020 is the first additional issued report with different title and style of HC30025/2020, dated on March 13, 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	KSON	GTH-1000-60-CP-AR-H	MAA1810-001

### Lab Environmental Conditions:

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

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

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Test Temperature: -30  $^\circ\text{C}$

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 V8.1 Pro" could work normally or not.

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Specimen:

Style/Item No.: WPC-905/ No.1

Quantity: Total 1 set

Test Result:

<div style="text-align: right;"><b>Check Item</b></div> <div style="text-align: left;"><b>Style/ Item No.</b></div>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>WPC-905/ No.1</b>	No visible damage	Normal

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## 2. High Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	KSON	GTH-1000-60-CP-AR-H	MAA1810-001

### Lab Environmental Conditions:

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

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

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Test Temperature: 70  $^{\circ}\text{C}$

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 V8.1 Pro" could work normally or not.

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**Specimen:**

Style/Item No.: WPC-905/ No.1

Quantity: Total 1 set

**Test Result:**

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
WPC-905/ No.1	No visible damage	Normal

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### 3. Random Vibration Test:

#### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	King Design	EM-800F2K-50N120	RU104080389
Controller	Dactron	COMET 200	10539718
Control Accelerometer	Wilcoxn Research	793-6	A4938

#### Lab Environmental Conditions:

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

Ambient 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 V8.1 Pro")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/ Oct.)	PSD ( $\text{g}^2/\text{Hz}$ )	Right Slope (dB/ Oct.)
5	—	0.05	0
500	0	0.05	—
⇨ equivalent to 5.0 Grms			

Direction: X, Y, Z axes (see photo 5 ~ 7)

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 V8.1 Pro" could work normally or not.

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**Specimen:**

Style/Item No.: WPC-905/ No.1

Quantity: Total 1 set

**Test Result:**

<div style="text-align: right;"><b>Check Item</b></div> <div style="text-align: left;"><b>Style/ Item No.</b></div>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>WPC-905/ No.1</b>	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	M17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196438
ICP Accelerometer	PCB	356A24	90696
ICP Accelerometer	PCB	356A24	162319
Shock Test System	LANSMONT	95-115D	M17656

### 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:

Sample condition: Operating (execute " Burnln Test V8.1 Pro")

Pulse shape: Half-Sine

Acceleration: 50 g

Pulse duration: 11 ms

Shock direction: 6 faces ( $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axes, see photo 8 ~ 13)

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 "Burnln Test V8.1 Pro" could work normally or not.

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**Specimen:**

Style/Item No.: WPC-905/ No.1

Quantity: Total 1 set

**Test Result:**

Check Item	Appearance check (Visual check)	Functional check
Style/ Item No.  <b>WPC-905/ No.1</b>	No visible damage	Normal

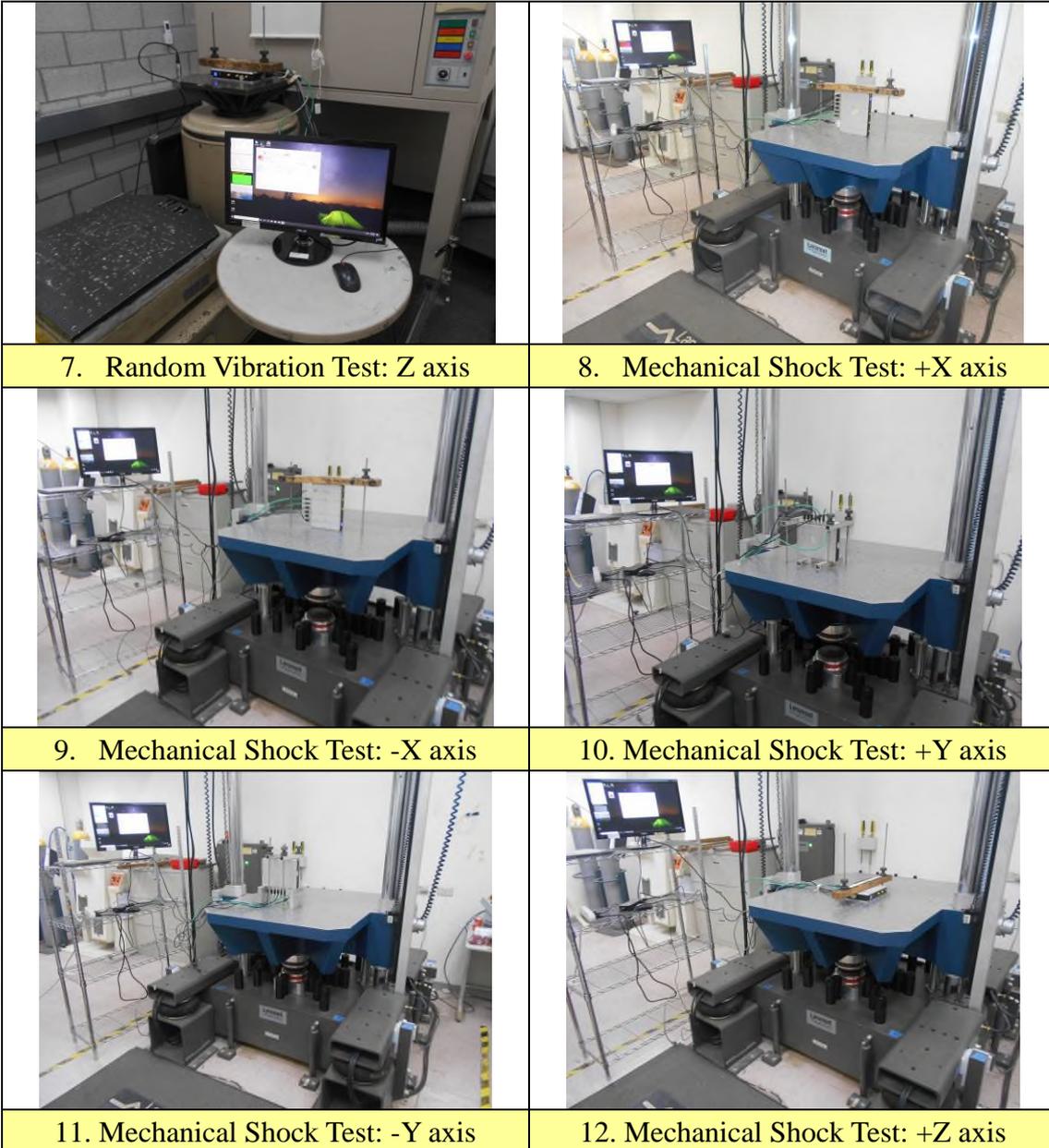
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Test Photos:

	
<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>

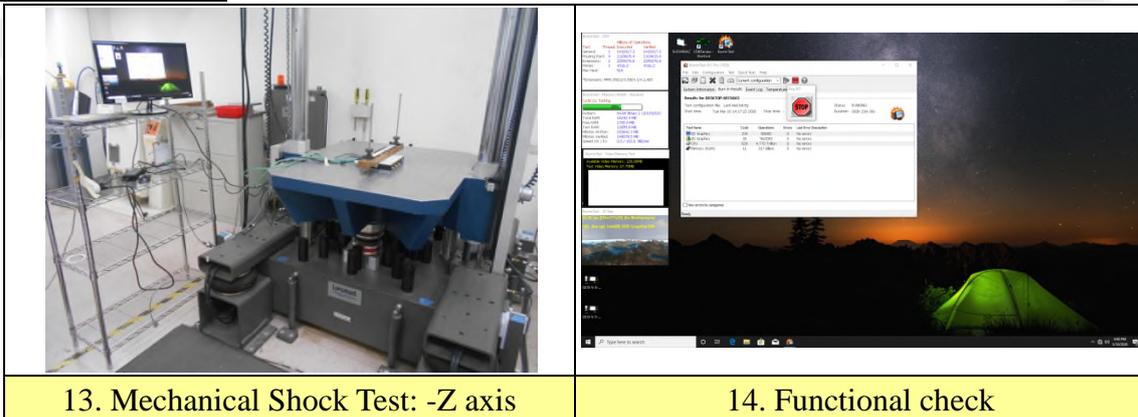
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Test Photos--Continued:



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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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