

## TEST REPORT

Report No.: HC10081/2025

Page: 1 of 13

Date: February 11, 2025

APACER TECHNOLOGY INC.

1F., NO. 32, ZHONGCHENG RD., TUCHENG DIST.,  
NEW TAIPEI CITY, TAIWAN, R.O.C.

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

Product Description: PCIe M.2 2280  
Style/ Item No.: PV250-M280/ No.1, No.2  
Quantity: Total 2 pieces  
Testing Period: Feb. 5, 2025 to Feb. 8, 2025

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. Non-Operating Shock Test
2. Operating Shock Test
3. Non-Operating Vibration Test
4. Operating Vibration Test

Test Results: -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of  
SGS TAIWAN Ltd.



Alex Chen  
Asst. Supervisor

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# TEST REPORT

## 1. Non-Operating Shock Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	M-23D	M-15624
Accelerometer	PCB	350B04	35365

### Lab Environmental Conditions:

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

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:

Test method: MIL-STD-883K w/CHANGE 2, Method 2002.5

Sample condition: Non-Operating

Pulse shape: Half-sine

Acceleration: 1500 g

Pulse duration: 0.5 ms

Shock direction: 6 faces ( $\pm X, \pm Y, \pm Z$  axes, see photo 3 ~ 8)

No. of shock: 3 shocks/ face (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen with NB then examine whether the test program "Burn-In Test" could work normally or not.

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**Specimen:**

Style/ Item No.: PV250-M280/ No.1, No.2

Quantity: Total 2 pieces

**Test Result:**

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	<b>PV250-M280/ No.1</b>		No visible damage
<b>PV250-M280/ No.2</b>		No visible damage	Normal

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# TEST REPORT

## 2. Operating Shock Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95/115D	M-17656
Accelerometer	PCB	353M288	190564

### 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: MIL-STD-202G, Method 213B  
 Sample condition: Operating  
 Pulse shape: Half-sine  
 Acceleration: 50 g  
 Pulse duration: 11 ms  
 Shock direction: 6 faces ( $\pm X, \pm Y, \pm Z$  axes, see photo 9 ~ 14)  
 No. of shock: 3 shocks/ face (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen with NB then examine whether the test program "Burn-In Test" could work normally or not.

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**Specimen:**

Style/ Item No.: PV250-M280/ No.1, No.2

Quantity: Total 2 pieces

**Test Result:**

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	PV250-M280/ No.1		No visible damage
PV250-M280/ No.2		No visible damage	Normal

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# TEST REPORT

### 3. Non-Operating Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
Control Accelerometer	WR	793-6	A4632

Lab Environmental Conditions:

Ambient Temperature : (25 ± 3) °C

Ambient humidity : (55 ± 20) % RH

Test Location:

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

Test Method/ Specification:

Test method: MIL-STD-810G, Method 514.6, Category 7

Sample condition: Non-Operating

Wave form: Random

Frequency: (15 ~ 2000) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (g <sup>2</sup> /Hz)	Right Slope (dB/Oct.)
15	-	0.01	0
105.94	0	0.01	6
150	6	0.02	0
500	0	0.02	-6
2000	-6	0.0012	-

⇒ equivalent to 4.02 Grms

Direction: X, Y, Z axes (see photo 15 ~ 17)

Test duration: 1 hour/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen with NB then examine whether the test program “Burn-In Test” could work normally or not.

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**Specimen:**

Style/ Item No.: PV250-M280/ No.1, No.2

Quantity: Total 2 pieces

**Test Result:**

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	PV250-M280/ No.1		No visible damage
PV250-M280/ No.2		No visible damage	Normal

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## 4. Operating Vibration Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
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, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,  
New Taipei City, Taiwan

### Test Method/ Specification:

Test method: MIL-STD-810G, Method 514.6, Category 24

Sample condition: Operating

Wave form: Random

Frequency: (20 ~ 2000) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD ( $\text{g}^2/\text{Hz}$ )	Right Slope (dB/Oct.)
20	-	0.04	0
1000	0	0.04	-6
2000	-6	0.01	-

⇨ equivalent to 7.69 Grms

Direction: X, Y, Z axes (see photo 18 ~ 20)

Test duration: 1 hour/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen with NB then examine whether the test program "Burn-In Test" could work normally or not.

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**Specimen:**

Style/ Item No.: PV250-M280/ No.1, No.2







Quantity: Total 2 pieces

**Test Result:**

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	PV250-M280/ No.1		No visible damage
PV250-M280/ No.2		No visible damage	Normal

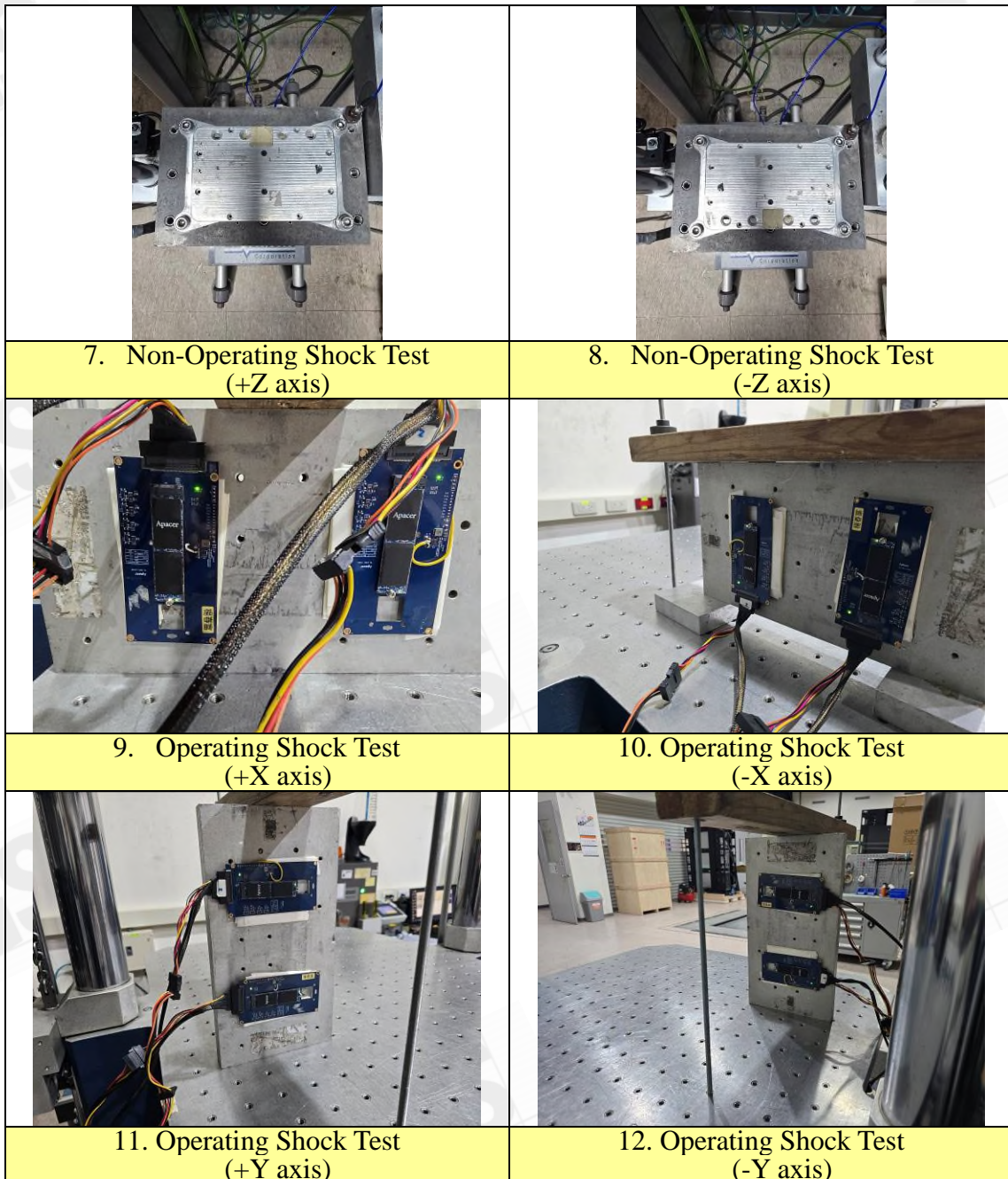
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Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. Non-Operating Shock Test (+X axis)</p>	<p>4. Non-Operating Shock Test (-X axis)</p>
	
<p>5. Non-Operating Shock Test (+Y axis)</p>	<p>6. Non-Operating Shock Test (-Y axis)</p>

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Test Photos--Continued:



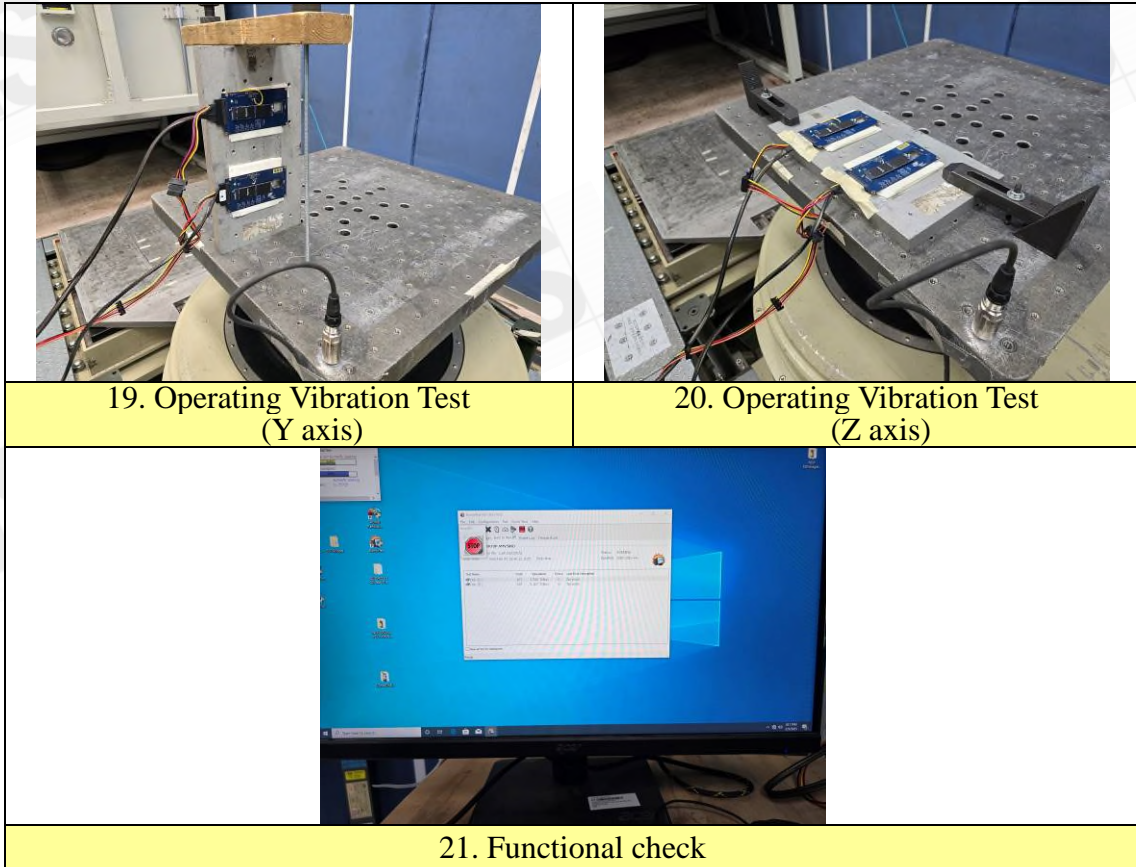
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Test Photos--Continued:



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Test Photos--Continued:



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