

## TEST REPORT

Report No.: HC80220/2021

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Date: September 30, 2021

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: SATA Flash Drive  
Style/ Item No.: SX250-25/ No.1  
Quantity: Total 1 piece  
Testing Period: Aug 23, 2021 to Sep. 24, 2021

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.



Sandra Chen  
Team Leader-PM

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## 1. Non-Operating Shock Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	M-23D	M-15624
Data Acquisition & Analysis System	LANSMONT	103571-1-B	1011-85
ICP 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: Turn on the power of specimen then execute the locking function of specimen(s) and test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/ Item No.: SX250-25/ No.1

Quantity: Total 1 piece

**Test Result:**

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SX250-25/ No.1	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
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196438

### 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: Turn on the power of specimen then execute the locking function of specimen(s) and test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/ Item No.: SX250-25/ No.1

Quantity: Total 1 piece

**Test Result:**

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SX250-25/ No.1	No visible damage	Normal

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# TEST REPORT

### 3. Non-Operating Vibration Test:

#### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

#### 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 7

Sample condition: Non-Operating

Wave form: Random

Frequency: (15 ~ 2000) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD ( $\text{g}^2/\text{Hz}$ )	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: Turn on the power of specimen then execute the locking function of specimen(s) and test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/ Item No.: SX250-25/ No.1

Quantity: Total 1 piece

**Test Result:**

<b>Check Item</b>  Style/ Item No.	<b>Appearance check</b> <b>(Visual check)</b>	<b>Functional check</b>
SX250-25/ No.1	No visible damage	Normal

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# TEST REPORT

## 4. Operating Vibration Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

### 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 during this test.
- Functional check: Turn on the power of specimen then execute the locking function of specimen(s) and test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/ Item No.: SX250-25/ No.1

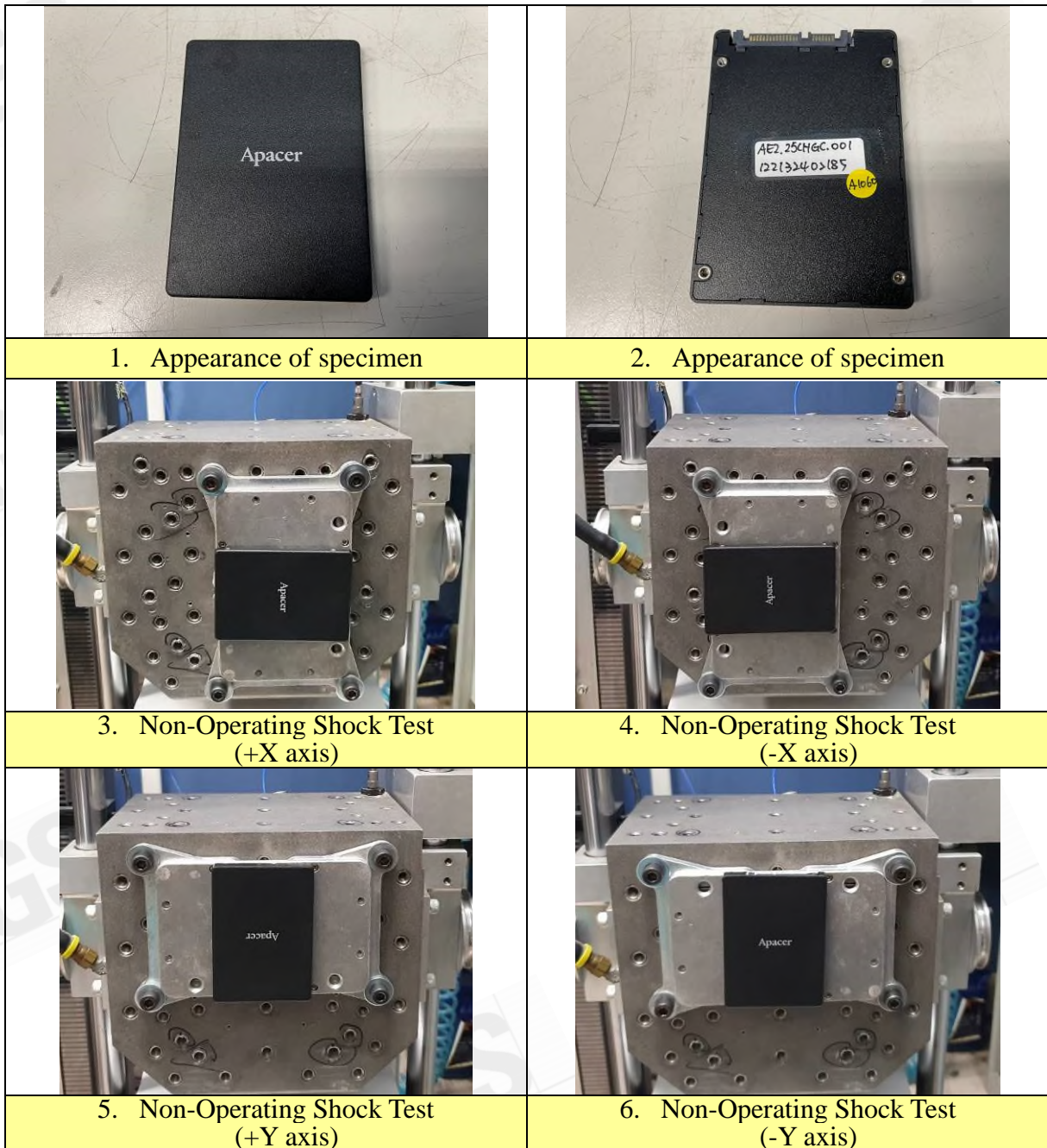
Quantity: Total 1 piece

**Test Result:**

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SX250-25/ No.1	No visible damage	Normal

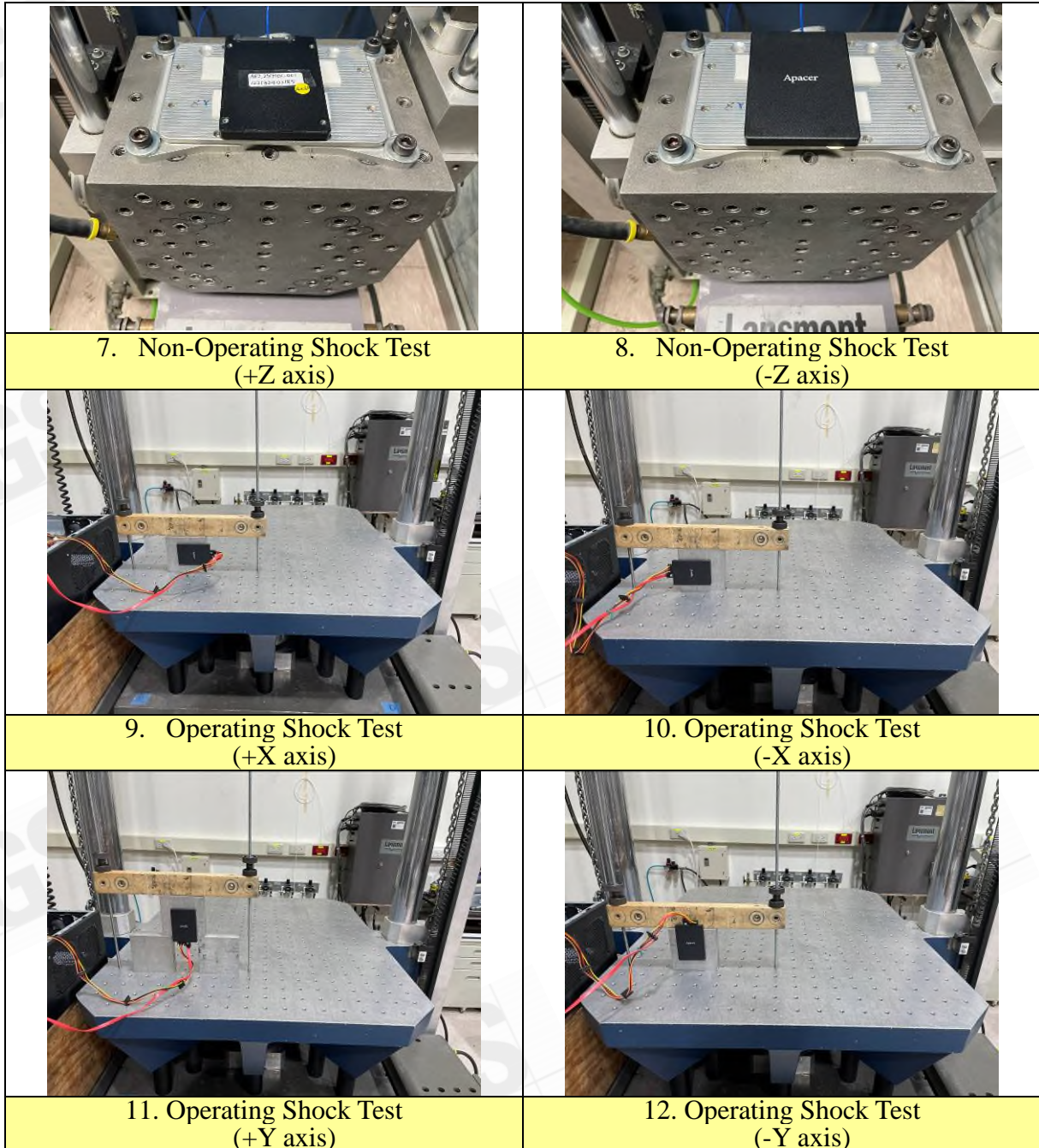
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Test Photos:



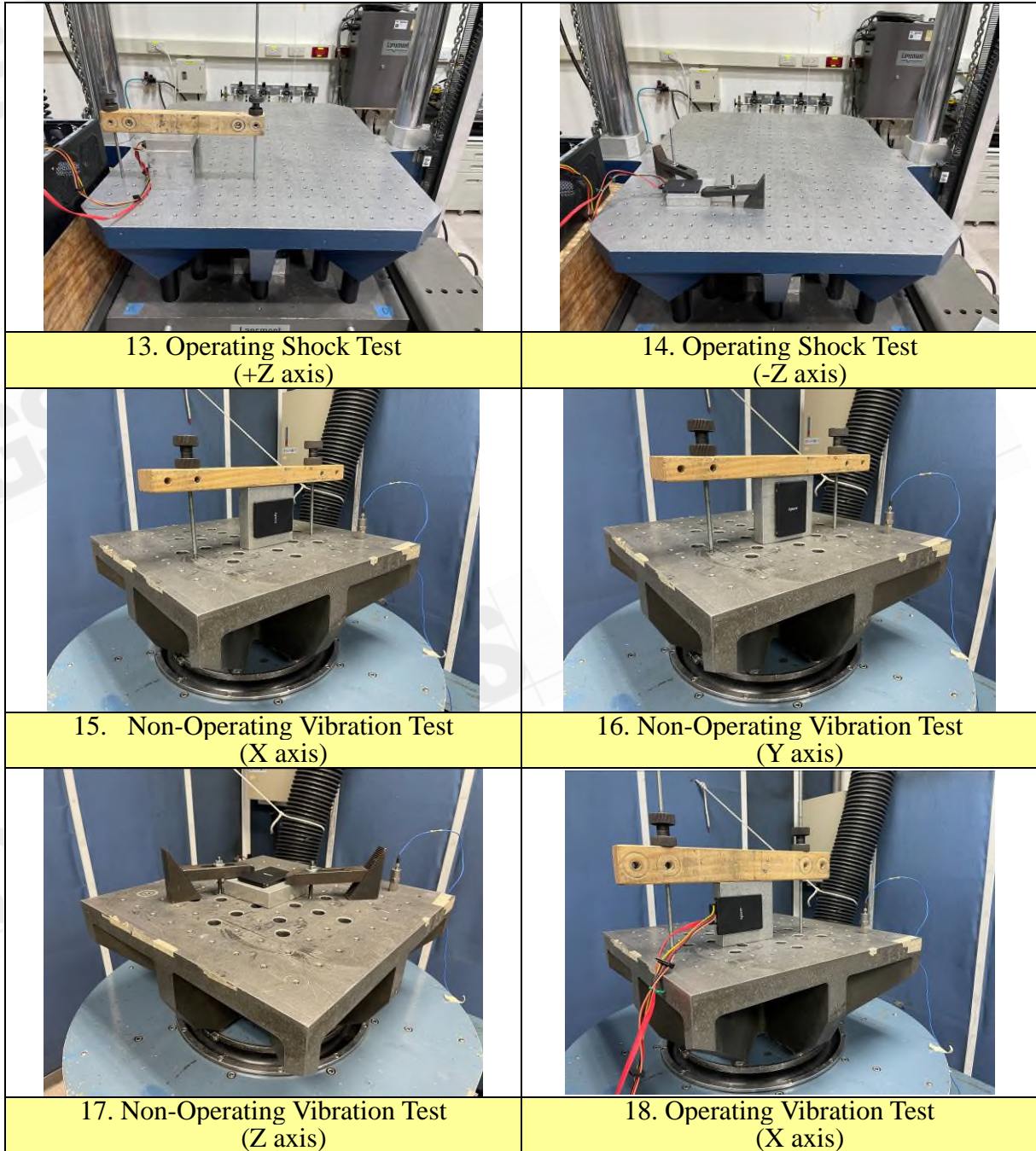
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Test Photos--Continued:



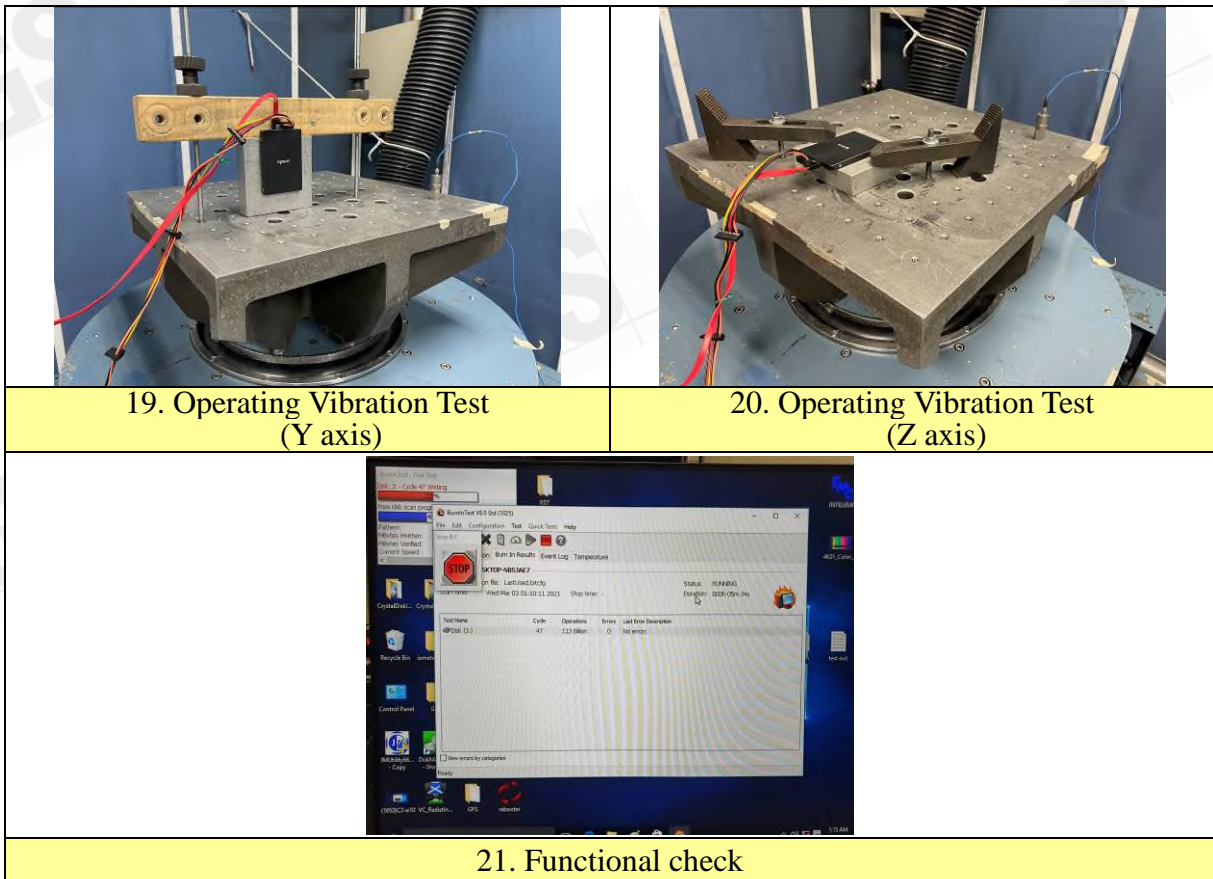
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