

TEST REPORT

Report No.: HCO0061/2024

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Date: October 21, 2024

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: USB3.2 Gen2 Flash Drive
Style/ Item No.: UX130-UFD9/ No.1
Quantity: Total 1 piece
Testing Period: Oct. 15, 2024 to Oct. 16, 2024

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

Test Equipment:

| Name | Brand | Model | Serial No. |
|-----------------------|----------------|--------------------|------------|
| Vibration Test System | UNHOLTZ-DICKIE | SAI60-H560BAC/2/ST | 474 |
| Controller | Dactron | LASER | 7110357 |
| Control Accelerometer | PCB | 353B34 | LW249959 |

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 (g^2/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 3 ~ 5)

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 PC then examine whether the test program “Burn-In Test” could work normally or not.

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Specimen:

Style/ Item No.: UX130-UFD9/ No.1

Quantity: Total 1 piece

Test Result:

| <div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div> | Appearance check (Visual check) | Functional check |
|---|--|-------------------------|
| UX130-UFD9/ No.1 | No visible damage | Normal |

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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 | 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 6 ~ 11)

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 PC then examine whether the test program "Burn-In Test" could work normally or not.

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Specimen:

Style/ Item No.: UX130-UFD9/ No.1

Quantity: Total 1 piece

Test Result:

| <div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div> | Appearance check (Visual check) | Functional check |
|---|--|-------------------------|
| UX130-UFD9/ 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 Test System | UNHOLTZ-DICKIE | SAI60-H560BAC/2/ST | 474 |
| Controller | Dactron | LASER | 7110357 |
| Control Accelerometer | PCB | 353B34 | LW249959 |

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 ² /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 12 ~ 14)

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 PC then examine whether the test program “Burn-In Test” could work normally or not.

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Specimen:

Style/ Item No.: UX130-UFD9/ No.1

Quantity: Total 1 piece

Test Result:

| <div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div> | Appearance check (Visual check) | Functional check |
|---|--|-------------------------|
| UX130-UFD9/ No.1 | No visible damage | Normal |

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4. 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, TaiwanTest Method/ Specification:Test method: MIL-STD-883K w/CHANGE 2, Method 2002.5Sample condition: Non-OperatingPulse shape: Half-sineAcceleration: 1500 gPulse duration: 0.5 msShock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 15 ~ 20)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 PC then examine whether the test program "Burn-In Test" could work normally or not.

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Specimen:

Style/ Item No.: UX130-UFD9/ No.1

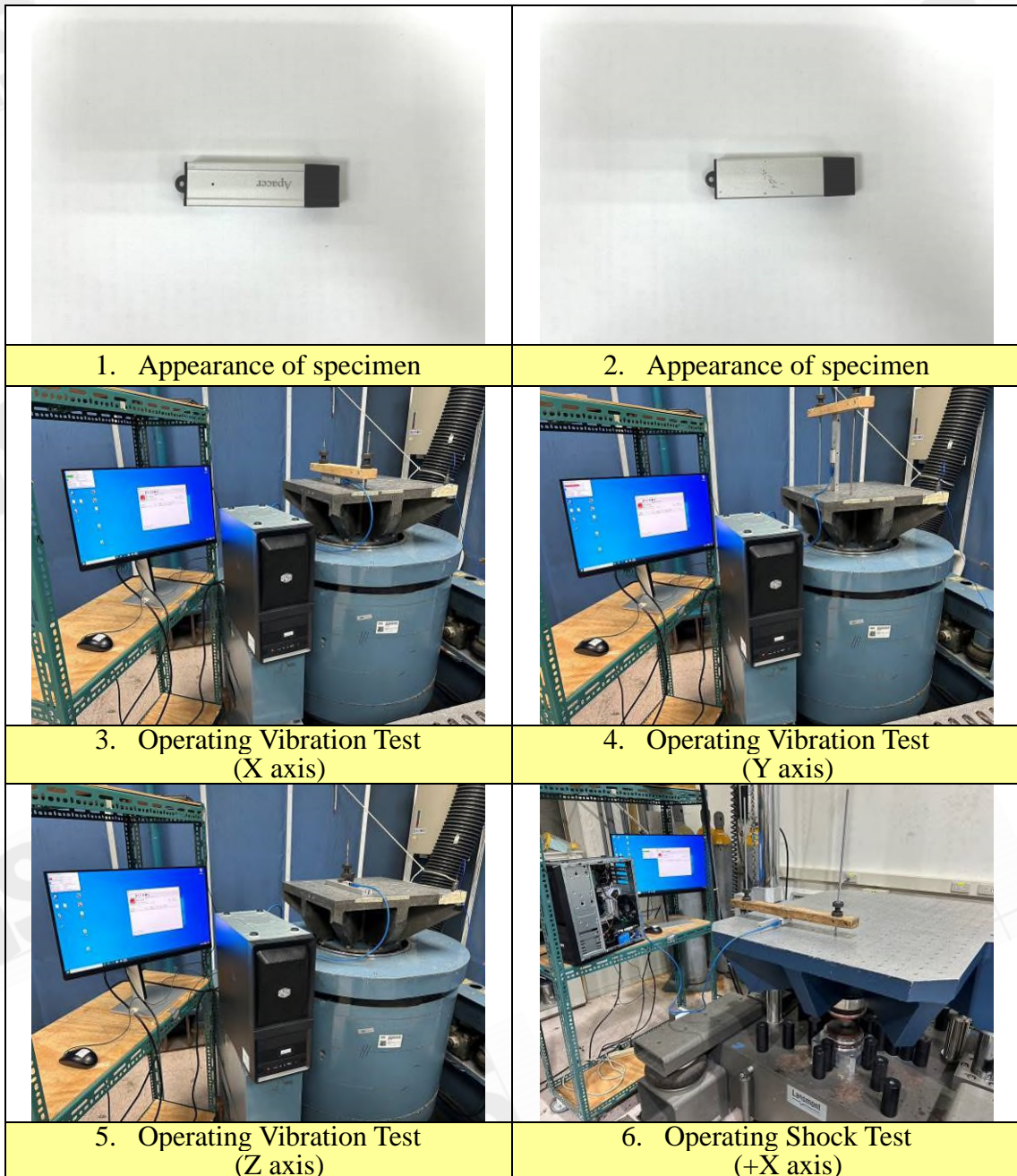
Quantity: Total 1 piece

Test Result:

| <div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div> | Appearance check (Visual check) | Functional check |
|---|--|-------------------------|
| UX130-UFD9/ No.1 | No visible damage | Normal |

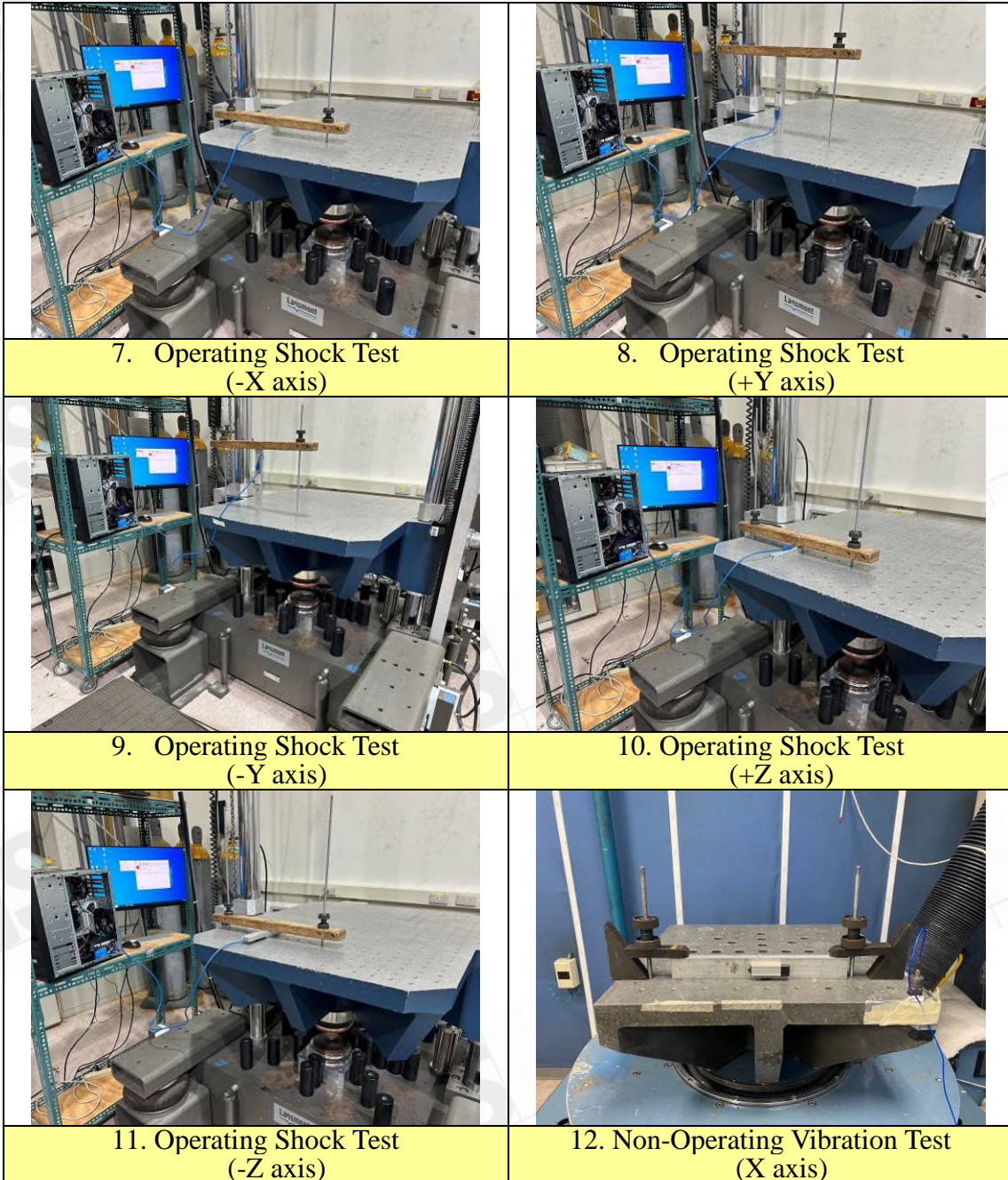
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Test Photos:



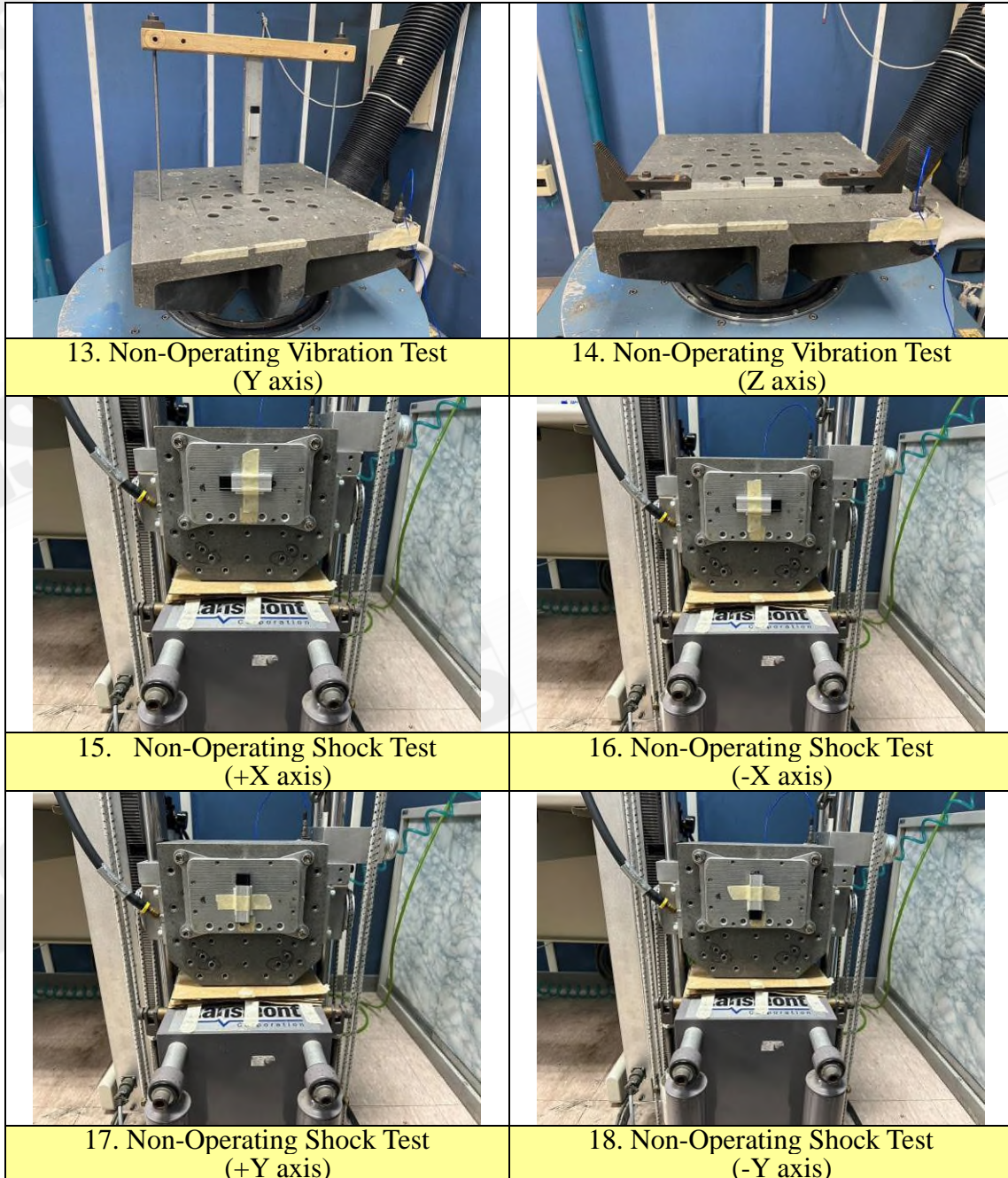
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Test Photos--Continued:



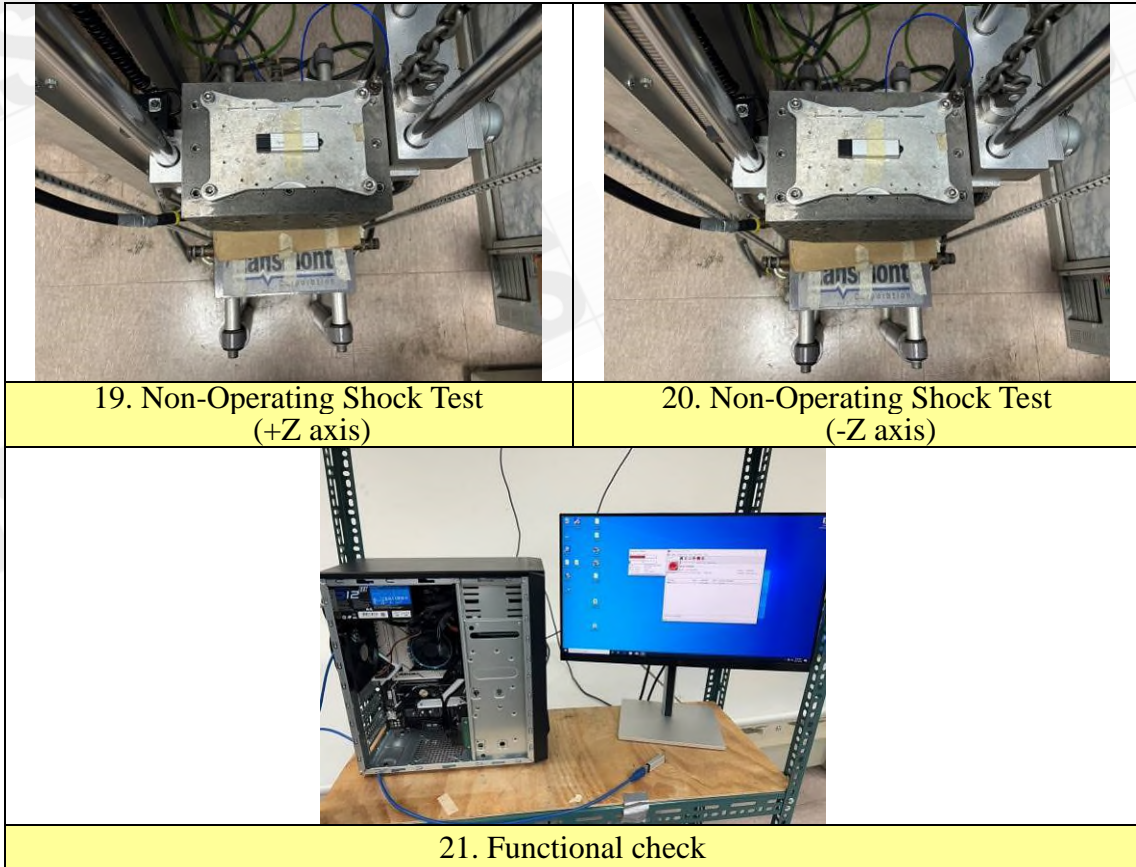
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Test Photos--Continued:



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Test Photos--Continued:



— — — The End of Test Report — — —

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