

**VIBRATION SOURCE TECHNOLOGY CO., LTD.**

**Vibration Testing Laboratory**

**Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864, Taiwan (R.O.C.)**

**Tel: 886-2-2688-0999 Fax: 886-2-2688-0977**

**E-mail: info@vibsource.com**

**Report No.: VS-TV-1140102-06**

# Test Report

**Date of Issue: 2025 / 01 / 02**

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| Specimen :          | <b>THOR11-D27</b>                                                                                      |
| Applicant Name :    | <b>PERFECTRON CO., LTD. TAIWAN BRANCH (B.V.I)</b>                                                      |
| Applicant Address : | <b>2 F., No. 190, Sec. 2, Zhongxing Rd., Xindian Dist.,<br/>New Taipei City 23146, Taiwan (R.O.C.)</b> |

The result of this test report performed by

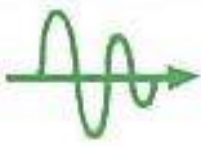
VIBRATION SOURCE TECHNOLOGY CO., LTD. is specified in this report.

When the cover and the following 14 pages are separated, the validity of this report no longer exists.

Without the consent of the laboratory, this test report shall not be copied excerpts, but except for full-text copy.

**Signature**





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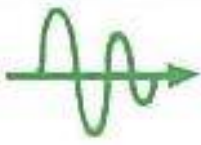
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### I - Test Information

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Report No.  | VS-TD-1140102-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicant Name   | PERFECTRON CO., LTD. TAIWAN BRANCH (B.V.I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specimen         | THOR11-D27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Quantity         | 1 PCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Date of Test     | Dec 25 ~ 26, 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Item        | Test 1: Vibration Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sample Condition | Non-Operating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Condition   | <p>Waveform: Random Wave</p> <p>Frequency Range: (500 ~ 2000) Hz</p> <p>Acceleration: 7.5 Grms</p> <p>PSD: 0.0375 G<sup>2</sup> / Hz</p> <p>Vibration Axial: (X · Y · Z ) Axis</p> <p>Single Axis Time: 30 minutes</p> <p>Total Time: 90 minutes</p> <p>FIG 1.1 ~ 1.4: X axis direction mounted &amp; Posterior check</p> <p>FIG 2: X axis test screen</p> <p>FIG 3.1 ~ 3.4: Y axis direction mounted &amp; Posterior check</p> <p>FIG 4: Y axis test screen</p> <p>FIG 5.1 ~ 5.4: Z axis direction mounted &amp; Posterior check</p> <p>FIG 6: Z axis test screen</p> |



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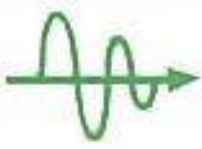
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|                   |                     |                                             |
|-------------------|---------------------|---------------------------------------------|
| Test Item         | Test 2 : Shock Test |                                             |
| Sample Condition  | Non-Operating       |                                             |
| Test Condition    | Waveform:           | Half Sine Wave                              |
|                   | Shock               |                                             |
|                   | Peak Acceleration:  | 75 G                                        |
|                   | Duration Time :     | 11 ms                                       |
|                   | Vibration Axial:    | +Z 、 -Z Axis                                |
|                   | Shock Time:         | 1 time                                      |
|                   | Total Time:         | 2 times                                     |
|                   | FIG 7.1 ~ 7.4:      | +Z axis direction mounted & Posterior check |
|                   | FIG 8:              | +Z axis test screen                         |
|                   | FIG 9.1 ~ 9.4:      | -Z axis direction mounted & Posterior check |
|                   | FIG 10:             | -Z axis test screen                         |
| Test Result       | Appearance:         | No external physical damage.                |
|                   | Function:           | Upon Applicant's comment.                   |
| Test Conducted By |                     | Report Prepared By                          |
| Manson            |                     | Jane                                        |
| <i>Manson</i>     |                     | <i>Jane</i>                                 |



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### Test 1 : Vibration Test

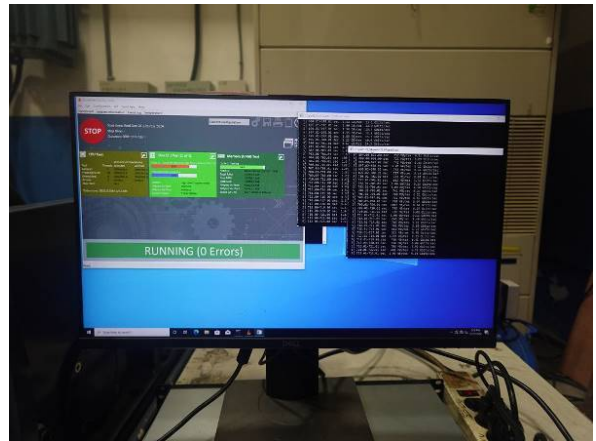
FIG.1.1 : X Axis direction mounted.

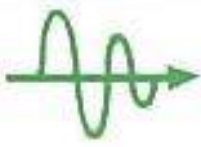


FIG.1.2 : X Axis direction mounted.



### X Axis Posterior check.





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FIG.2 : X Axis Test screen.



Current Level: 0.00 dB

Demand RMS: 7.504 g

Control RMS: 7.491 g

Frame Time: 0.4000 (s)

Lines: 800

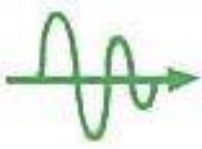
dF: 2.5 Hz

DOF: 300

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2024-12-26 AM 09:08:06



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FIG.3.1 : Y Axis direction mounted.

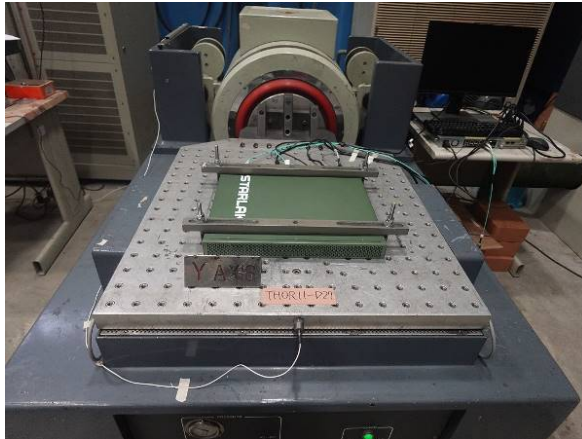
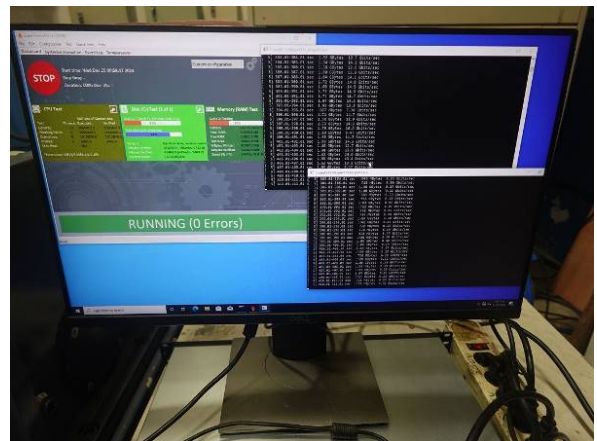
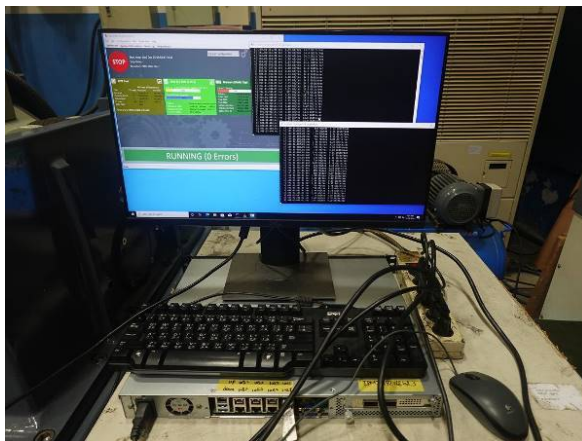
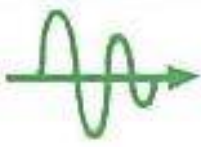


FIG.3.2 : Y Axis direction mounted.



### Y Axis Posterior check





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FIG.4 : Y Axis Test screen.



Current Level: 0.00 dB

Demand RMS: 7.504 g

Control RMS: 7.501 g

Frame Time: 0.4000 (s)

Lines: 800

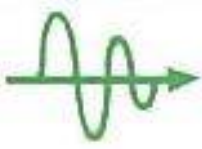
dF: 2.5 Hz

DOF: 300

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2024-12-25 PM 04:49:29



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Report No.: VS-TV-1140102-06

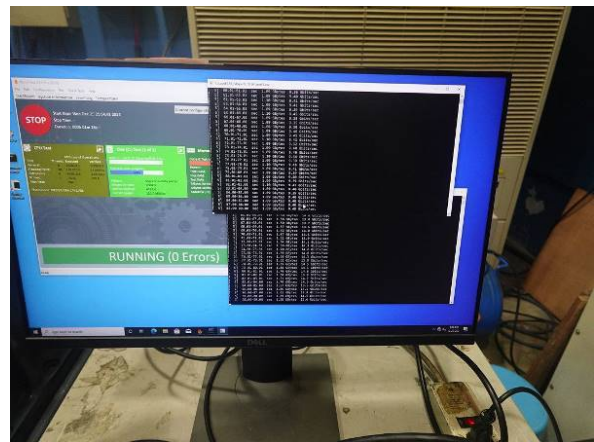
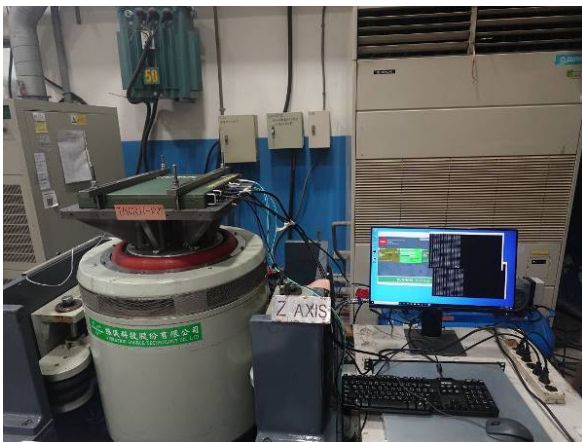
FIG.5.1 : Z Axis direction mounted.



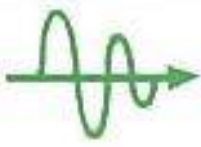
FIG.5.2 : Z Axis direction mounted.



### Z Axis Posterior check







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FIG.6 : Z Axis Test screen.



Current Level: 0.00 dB

Demand RMS: 7.504 g

Control RMS: 7.532 g

Frame Time: 0.4000 (s)

Lines: 800

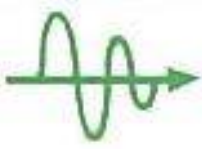
dF: 2.5 Hz

DOF: 300

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2024-12-26 PM 12:13:17



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### Test 2 : Shock Test

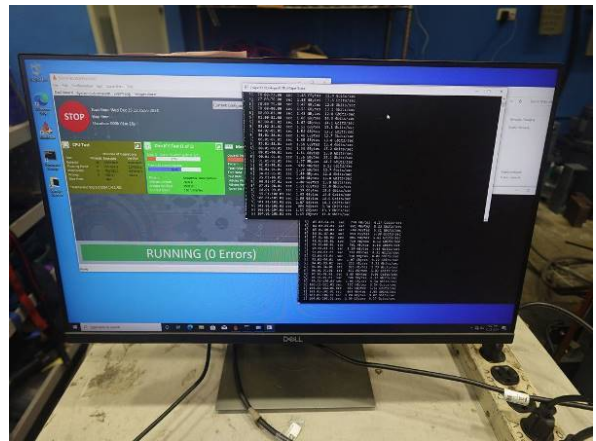
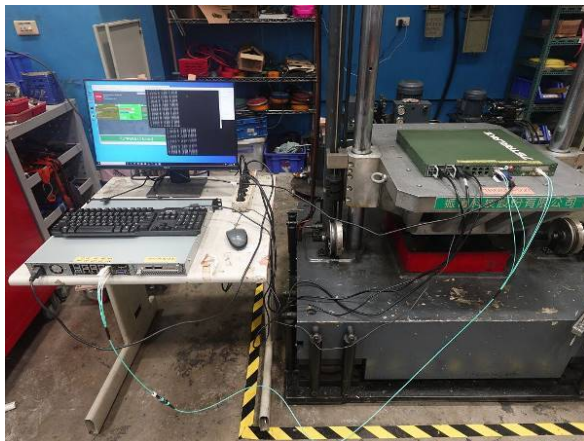
FIG.7.1 : +Z Axis direction mounted.

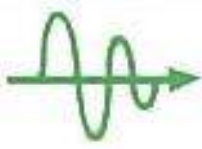


FIG.7.2 : +Z Axis direction mounted.



### +Z Axis Posterior check





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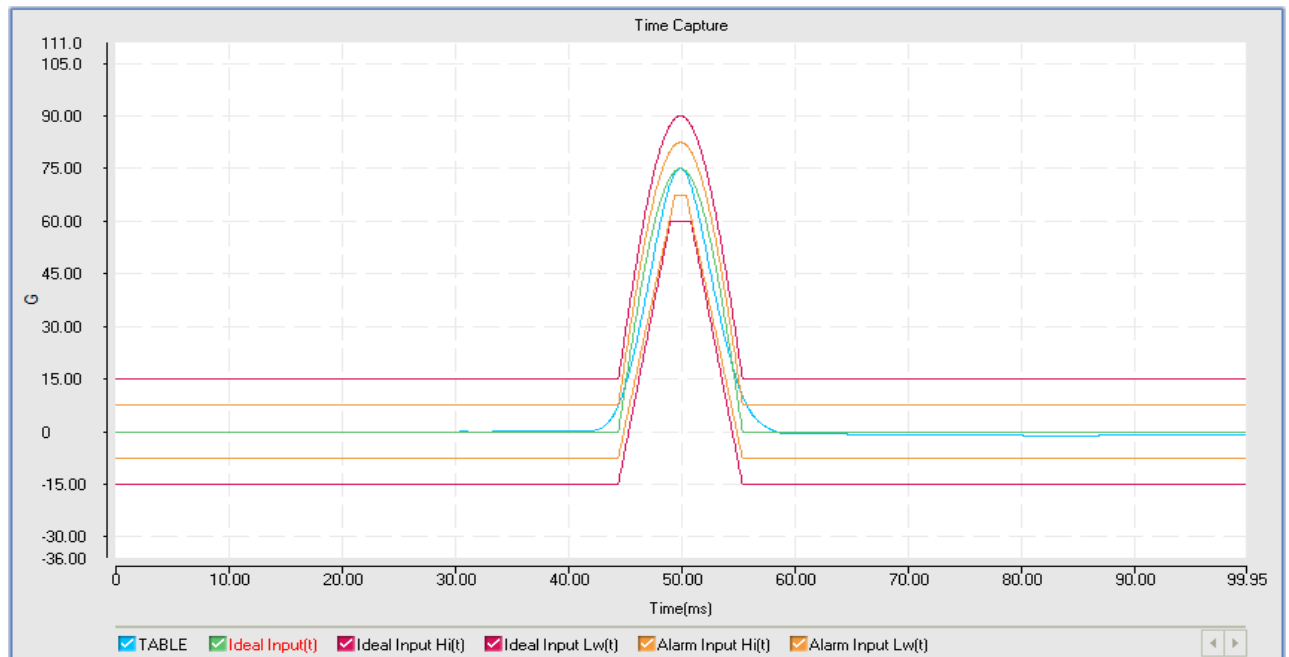
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1140102-06

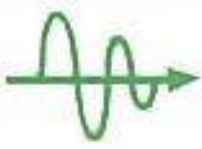
FIG.8 : +Z Axis Test screen.

| Name           | G     | ms    | cm/s   | LP Filter(Hz) | Maximum(G) | Minimum(G) | Description |
|----------------|-------|-------|--------|---------------|------------|------------|-------------|
| Ideal Input(t) | 75.00 | 11.00 | 514.06 | --            | 75.00      | 0.00       |             |
| TABLE          | 75.10 | 11.36 | 485.38 | 363.64        | 75.10      | -1.45      |             |



Total Frames:4 Current Frames:4

Test Time:2024-12-26 13:52:52 Reporting Time:2024-12-26 14:02:21



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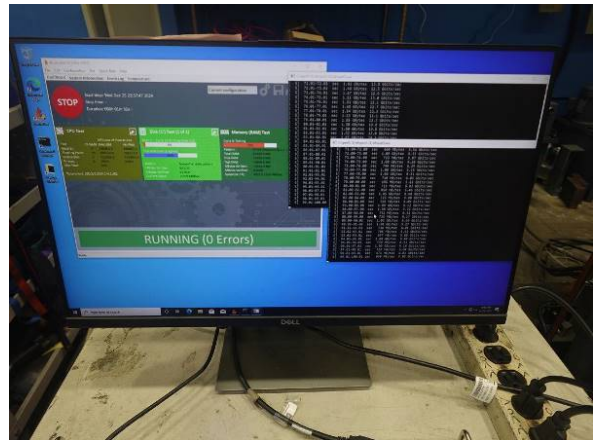
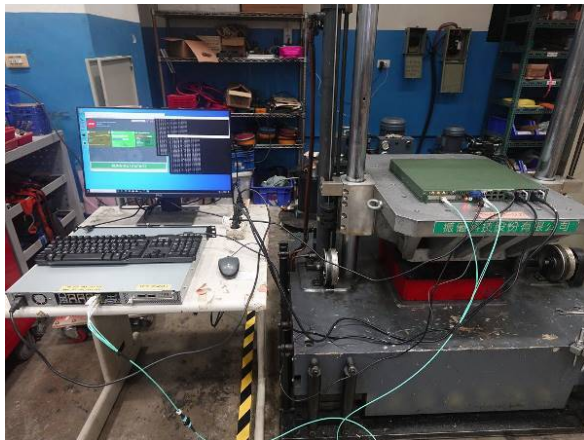
FIG.9.1 : -Z Axis direction mounted.

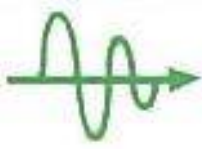


FIG.9.2 : -Z Axis direction mounted.



-Z Axis Posterior check





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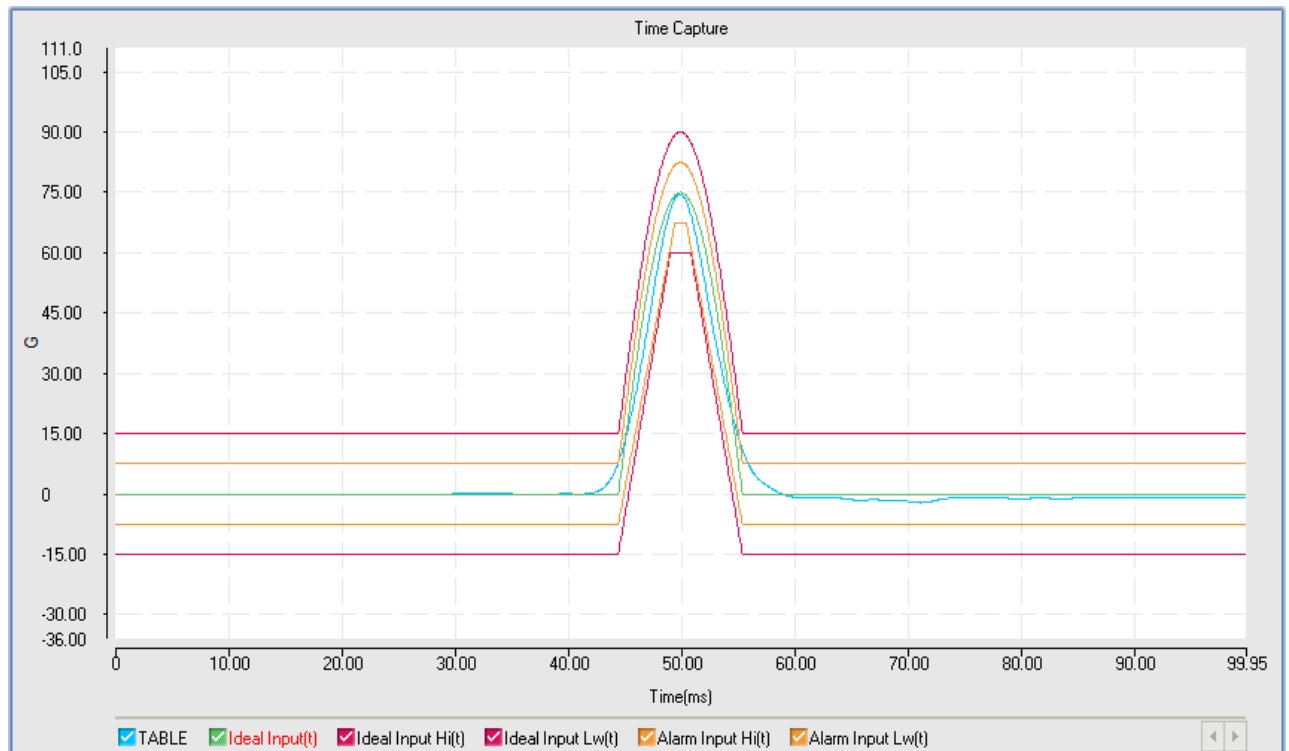
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Report No.: VS-TV-1140102-06

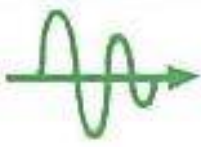
FIG.10 : -Z Axis Test screen.

| Name           | G     | ms    | cm/s   | LP Filter(Hz) | Maximum(G) | Minimum(G) | Description |
|----------------|-------|-------|--------|---------------|------------|------------|-------------|
| Ideal Input(t) | 75.00 | 11.00 | 514.06 | --            | 75.00      | 0.00       |             |
| TABLE          | 74.51 | 11.54 | 487.41 | 363.64        | 74.51      | -2.22      |             |



Total Frames:5 Current Frames:5

Test Time:2024-12-26 13:52:52 Reporting Time:2024-12-26 14:18:28



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## II · Test Description

### 1. Date of Test

This test was performed on Dec 25 ~ 26, 2025

### 2. Test Location

This test was performed on NO. 29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864, Taiwan.

### 3. Test Methods

This test was carried out according to the following documents: (VS-LP-TV-01)V3.1.

### 4. Test standard instruments

Test standard instruments and matching accelerometer, as below:

| Specimen                              | Manufacturer                         | Model     | Serial NO. | Calibration Date | Validity Date |
|---------------------------------------|--------------------------------------|-----------|------------|------------------|---------------|
| Electrodynamics Type Vibration Tester | Vibration Source Technology CO., LTD | VS-2000VH | T0701      | 2024/03/08       | 2025/03/07    |
| Accelerometer                         | PCB                                  | J353B32   | 86797      |                  |               |

Calibration and Traceability to Vibration Source Technology CO., TD.  
Vibration Calibration Laboratory (TAF 2465)  
(Calibration Report No.: VS-CV-1130308-01)

| Specimen                | Manufacturer                         | Model     | Serial NO. | Calibration Date | Validity Date |
|-------------------------|--------------------------------------|-----------|------------|------------------|---------------|
| Mechanical Shock Tester | Vibration Source Technology CO., LTD | SHOCK-100 | 1000       | 2024/03/01       | 2025/02/28    |
| Accelerometer           | PCB                                  | 353B04    | 176827     |                  |               |

Calibration and Traceability to Vibration Source Technology CO., LTD.  
Vibration Calibration Laboratory  
(Calibration Report No.: VS-CS-1130301-02)

## III · Reference

- Vibration testing procedures (VS-LP-TV-01)V3.1  
VIBRATION SOURCE TECHNOLOGY CO., LTD.  
The End.