

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-1130305-06

Test Report

Date of Issue: 2025 / 03 / 05

Specimen: AV400-T4
Applicant Name : PERFECTRON CO., LTD. TAIWAN BRANCH (B.V.I)
**Applicant Address : 2 F., No. 190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146, Taiwan**

The result of this test report, performed by

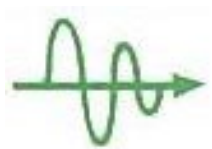
VIBRATION SOURCE TECHNOLOGY CO., LTD. is specified in this report.

When the cover and the following 18 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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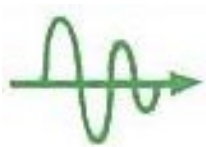
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1130305-06

I 、 Test Information

Test Report NO.	VS-TV-1140305-06
Applicant Name	PERFECTRON CO., LTD. TAIWAN BRANCH (B.V.I)
Specimen	AV400-T4
Quantity	1 PCS
Date of Test	Mar 03 ~ 04, 2025
Temperature :	25 °C ± 10 °C
Relative humidity :	50 % ± 25 %



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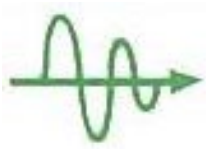
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Report No.: VS-TV-1130305-06

Test Item	Test 1 : Vibration Test		
Sample Condition	Operating		
Test Condition	Waveform:	Random Wave	
	Frequency Range:	(500 ~ 2000) Hz	
	Acceleration:	2.2 Grms	
	PSD:	Frequency(Hz)	Acceleration((g) ² /Hz)
		500	0.003
		2000	0.003
	Vibration Axial:	X, Y, Z	
	Single Axis Time:	30 minutes	
	Total Time:	90 minutes	
	FIG 1.1 ~ 1.2:	X axis direction mounted	
	FIG 2:	X axis test screen (2.2 Grms)	
	FIG 3.1 ~ 3.2:	Y axis direction mounted	
	FIG 4:	Y axis test screen (2.2 Grms)	
	FIG 5.1 ~ 5.2:	Z axis direction mounted	
	FIG 6:	Z axis test screen (2.2 Grms)	



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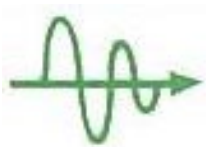
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Report No.: VS-TV-1130305-06

Test Item	Test 2 : Vibration Test		
Sample Condition	Non-Operating		
Test Condition	Waveform:	Random Wave	
	Frequency Range:	(500 ~ 2000) Hz	
	Acceleration:	5 Grms	
	PSD:	Frequency(Hz)	Acceleration((g) ² /Hz)
		500	0.016
		2000	0.016
	Vibration Axial:	X, Y, Z	
	Single Axis Time:	30 minutes	
	Total Time:	90 minutes	
	FIG 7.1 ~ 7.2:	X axis direction mounted	
	FIG 8:	X axis test screen (5 Grms)	
	FIG 9.1 ~ 9.2:	Y axis direction mounted	
	FIG 10:	Y axis test screen (5 Grms)	
	FIG 11.1 ~ 11.2:	Z axis direction mounted	
	FIG 12:	Z axis test screen (5 Grms)	



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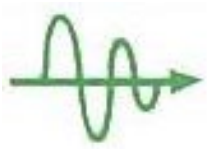
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Test Item	Test 3 : Shock Test
Sample Condition	Operating
Test Condition	Waveform: Half Sine Wave Shock Peak Acceleration: 20 G Duration Time: 11 ms Shock Axial: $\pm Z$ Axis Shock Time: 1 time Total Time: 2 times FIG 13.1 ~ 13.2: +Z axis direction mounted FIG 14: +Zaxis test screen FIG 15.1 ~ 15.2: -Z axis direction mounted FIG 16: -Z axis test screen
Test Item	Test 4: Shock Test
Sample Condition	Non-Operating
Test Condition	Waveform: Half Sine Wave Shock Peak Acceleration: 40 G Duration Time: 11 ms Shock Axial: $\pm Z$ Axis Shock Time: 1 time Total Time: 2 times FIG 17.1 ~ 17.2: +Z axis direction mounted FIG 18: +Zaxis test screen FIG 19.1 ~ 19.2: -Z axis direction mounted FIG 20: -Z axis test screen Posterior check photos



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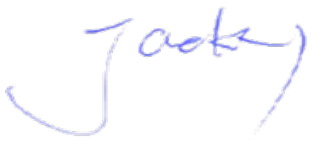
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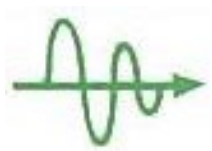
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E-mail: info@vibsource.com

Report No.: VS-TV-1130305-06

Test Result	Appearance: No external physical damage. Function: Upon Applicant's comment.	
Test Conducted By		Report Prepared By
JACKY 		Jane 



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Test 1: Vibration Test (Operating)

FIG 1.1 : X Axis direction mounted

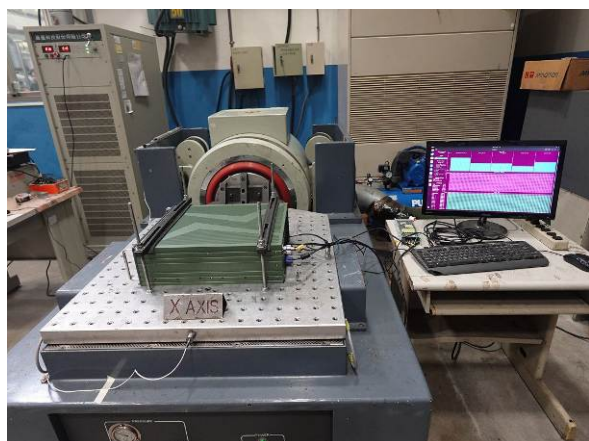
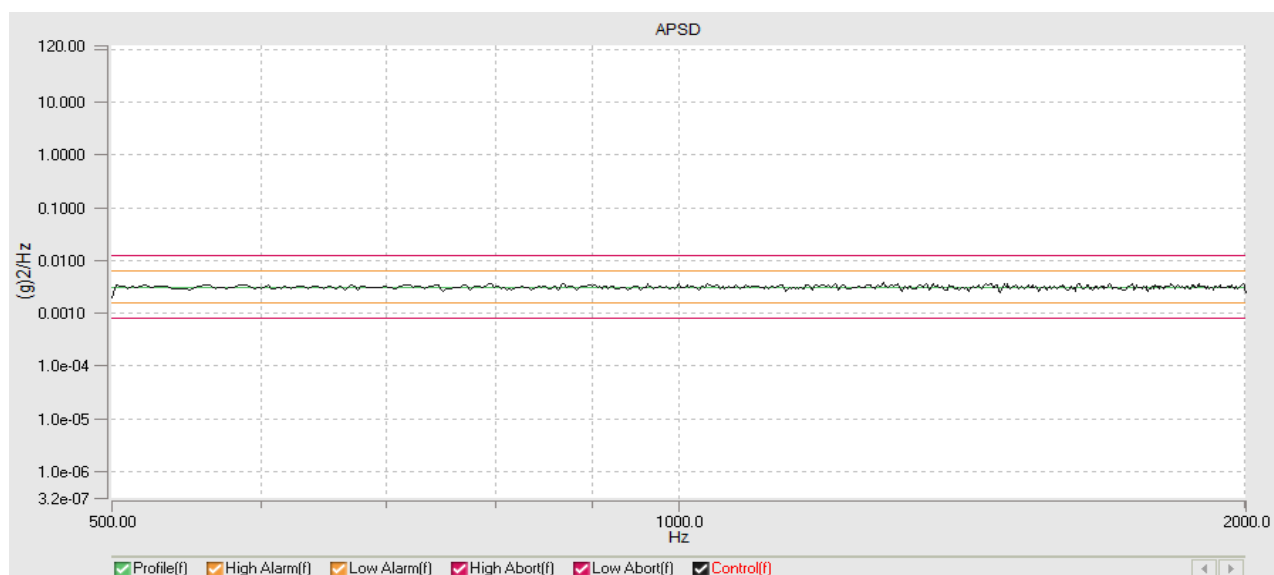


FIG 1.2 : X Axis direction mounted



FIG 2 : X Axis Test screen (2.2 Grms).



Current Level: 100.00 %

Demand RMS: 2.201 g

Control RMS: 2.205 g

Frame Time: 0.4000 (s)

Lines: 800

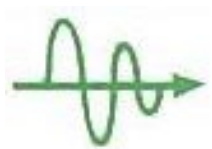
dF: 2.5 Hz

DOF: 350

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-3-3 PM 01:46:17



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FIG 3.1 : Y Axis direction mounted

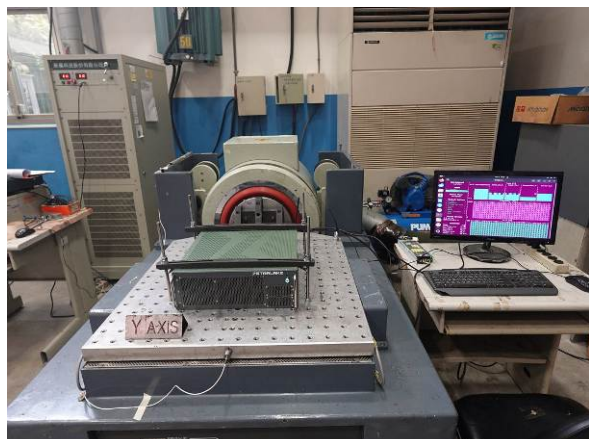
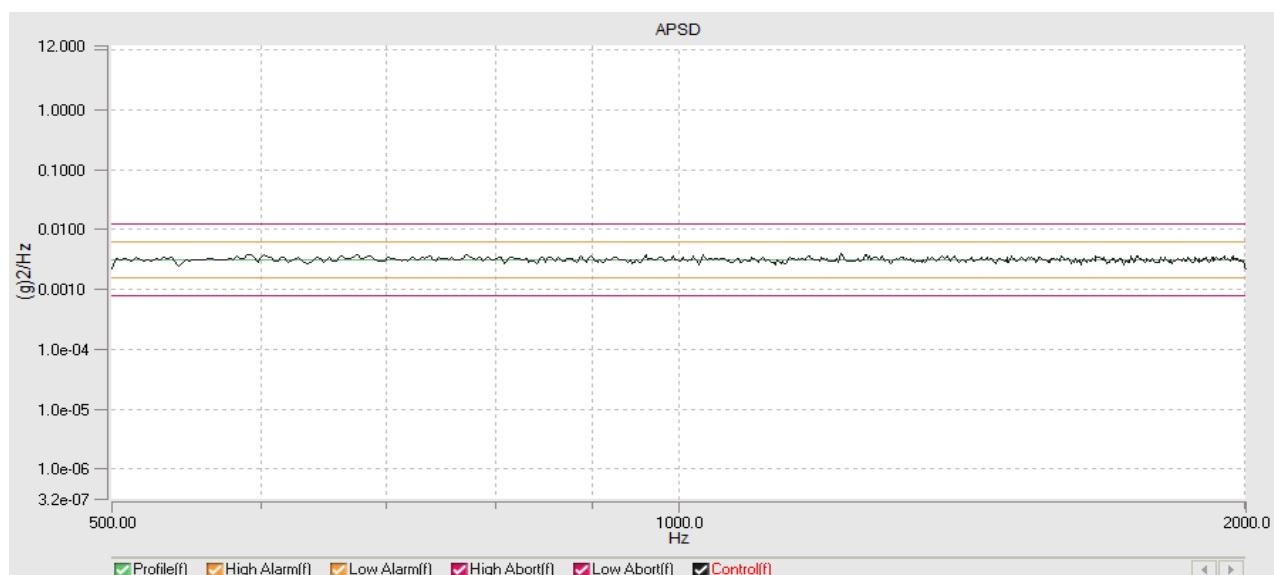


FIG 3.2 : Y Axis direction mounted



FIG 4 : Y Axis Test screen (2.2 Grms)



Current Level: 100.00 %

Demand RMS: 2.201 g

Control RMS: 2.208 g

Frame Time: 0.4000 (s)

Lines: 800

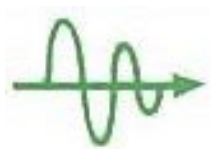
dF: 2.5 Hz

DOF: 350

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-3-3 AM 10:46:52



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FIG 5.1 : Z Axis direction mounted

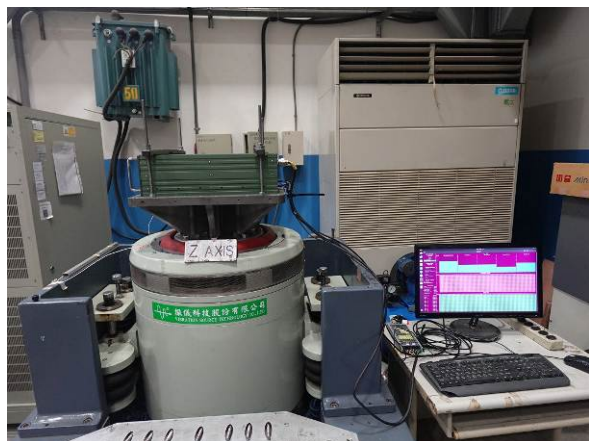
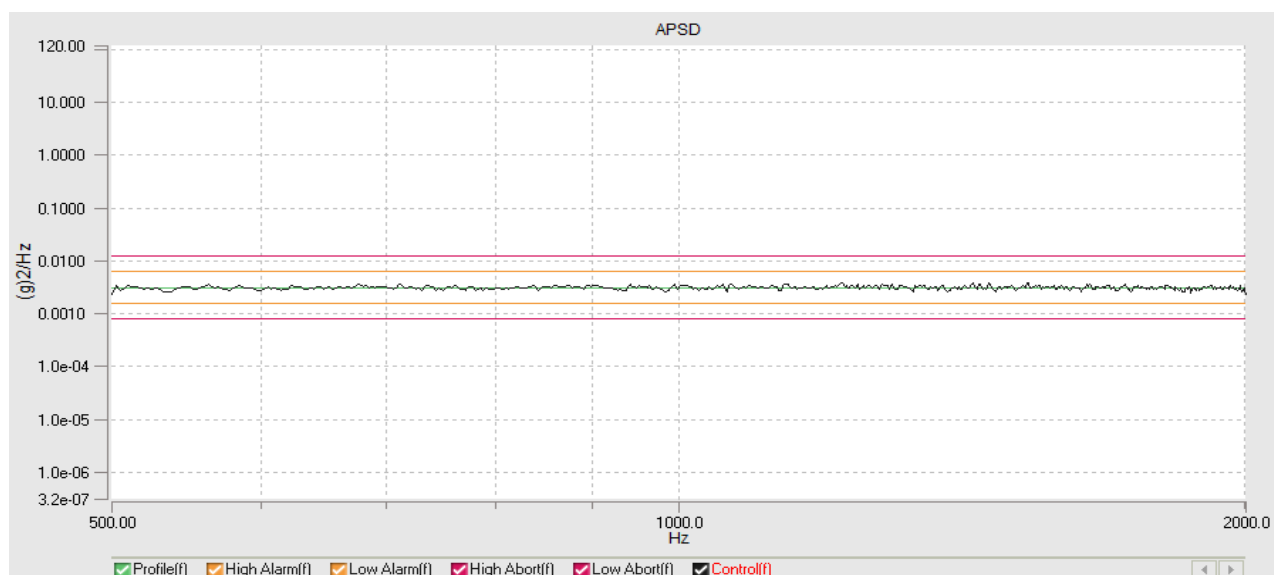


FIG 5.2 : Z Axis direction mounted



FIG 6 : Z Axis Test screen (2.2 Grms)



Current Level: 100.00 %

Demand RMS: 2.201 g

Control RMS: 2.202 g

Frame Time: 0.4000 (s)

Lines: 800

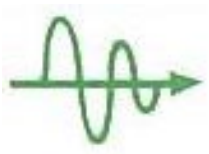
dF: 2.5 Hz

DOF: 350

Current Level Time: 00:30:00

Remaining Time: 00:00:00

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Test 2: Vibration Test (Non-Operating)

FIG 7.1 : X Axis direction mounted

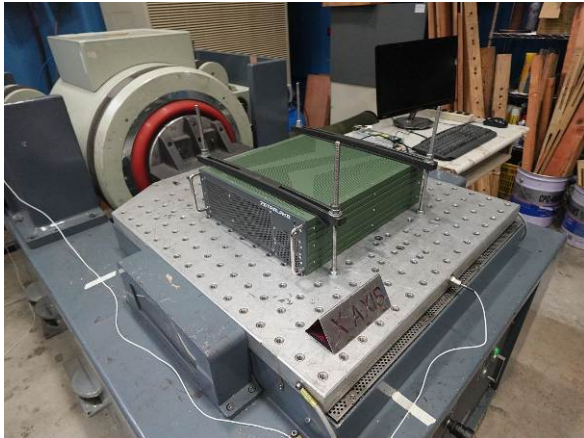
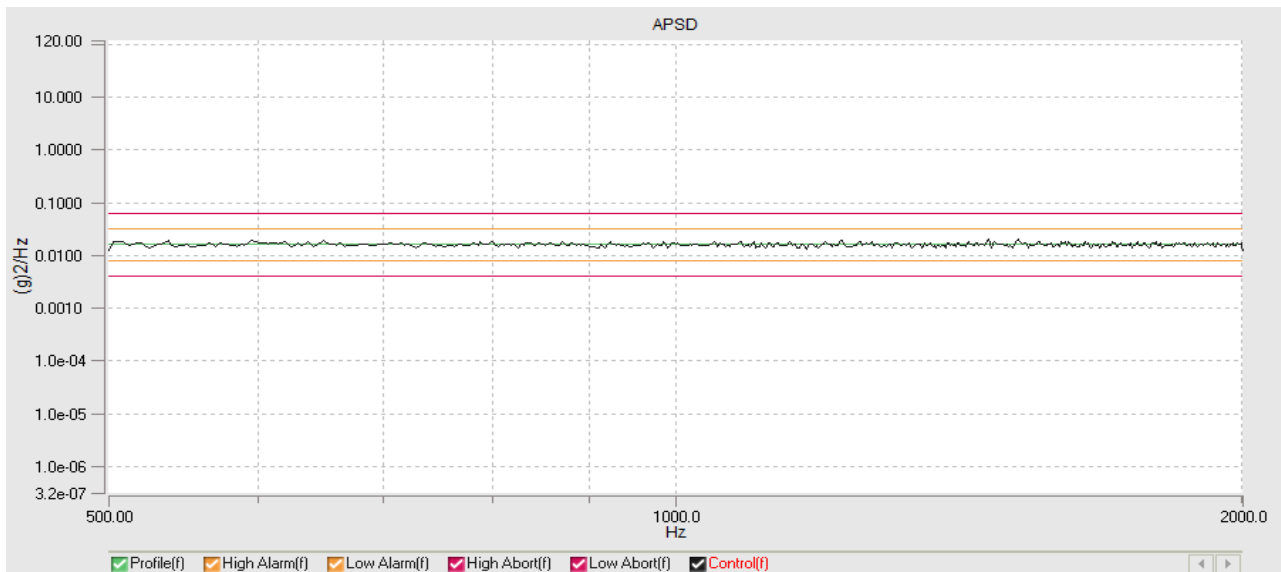


FIG 7.2 : X Axis direction mounted



FIG 8 : X Axis Test screen (5.0 Grms).



Current Level: 100.00 %

Demand RMS: 4.999 g

Control RMS: 4.988 g

Frame Time: 0.4000 (s)

Lines: 800

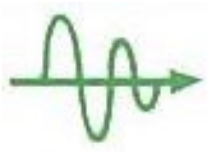
dF: 2.5 Hz

DOF: 350

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-3-3 PM 12:00:19



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FIG 9.1 : Y Axis direction mounted

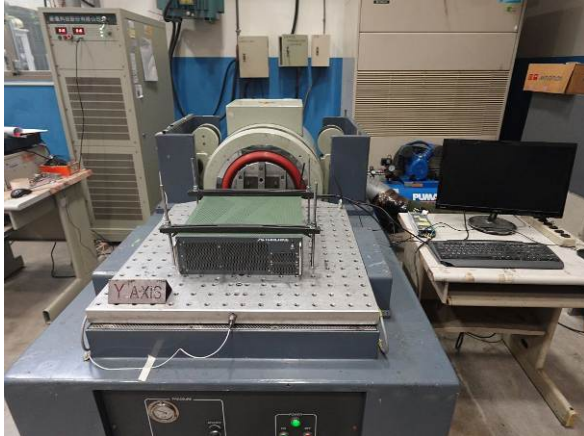
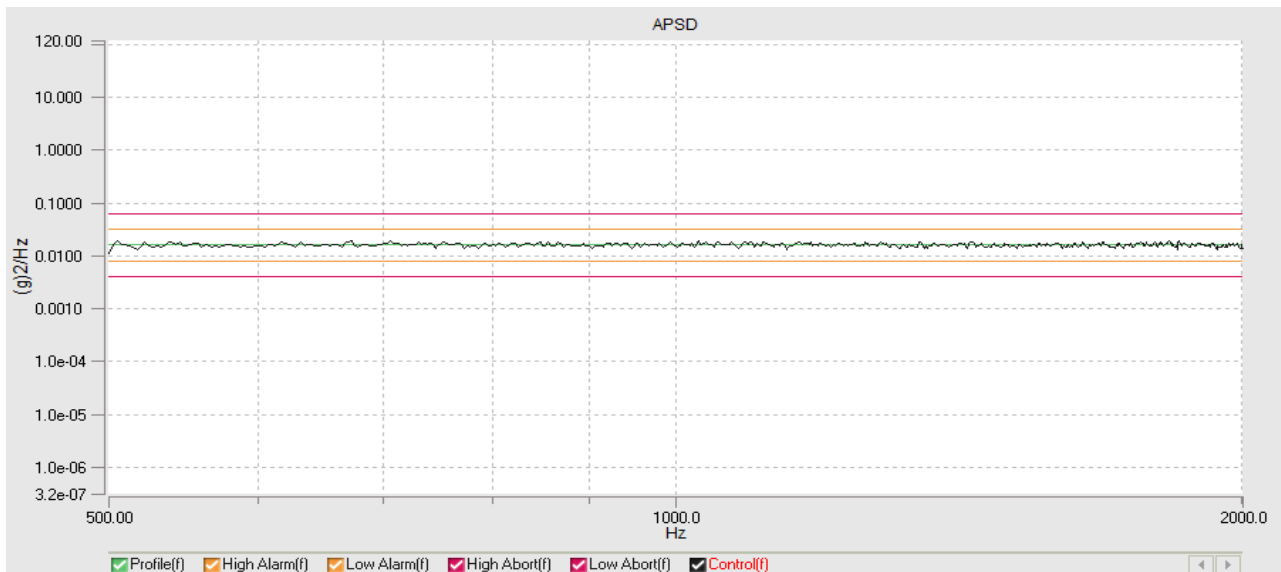


FIG 9.2 : Y Axis direction mounted



FIG 10 : Y Axis Test screen (5.0 Grms)



Current Level: 100.00 %

Demand RMS:4.999 g

Control RMS: 4.996 g

Frame Time:0.4000 (s)

Lines:800

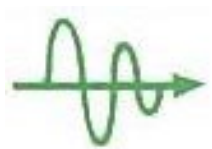
dF:2.5 Hz

DOF:350

Current Level Time:00:30:00

Remaining Time:00:00:00

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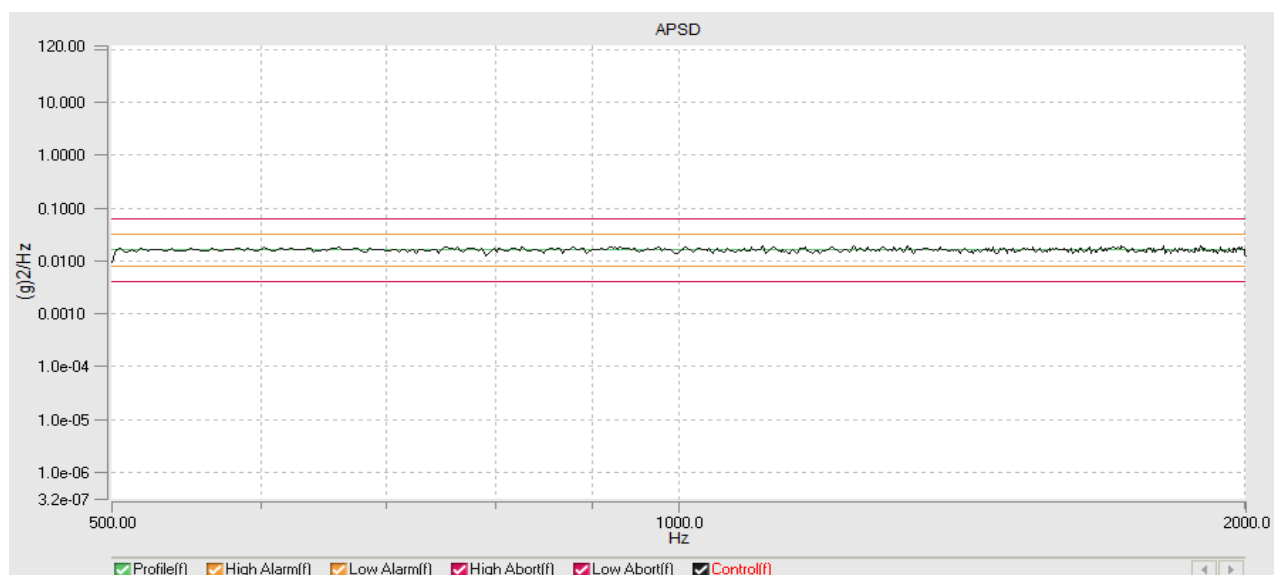
FIG 11.1 : Z Axis direction mounted



FIG 11.2 : Z Axis direction mounted



FIG 12 : Z Axis Test screen (5.0 Grms)



Current Level: 100.00 %

Demand RMS: 4.999 g

Control RMS: 5.005 g

Frame Time: 0.4000 (s)

Lines: 800

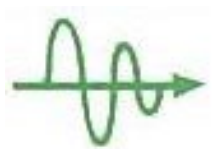
dF: 2.5 Hz

DOF: 350

Current Level Time: 00:30:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-3-3 PM 02:41:57



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Report No.: VS-TV-1130305-06

Test 3: Shock test (20 G、11 ms & Operating)

FIG 13.1: +Z axis direction mounted

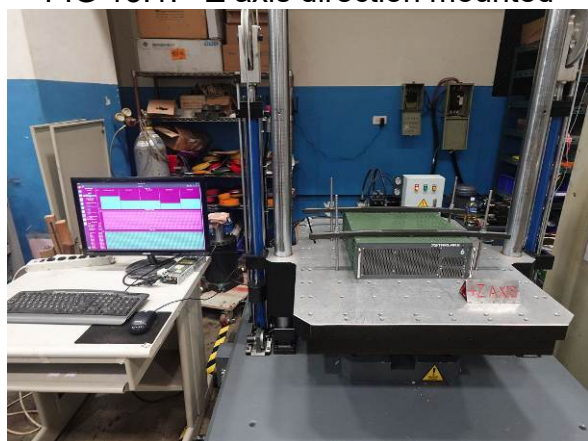
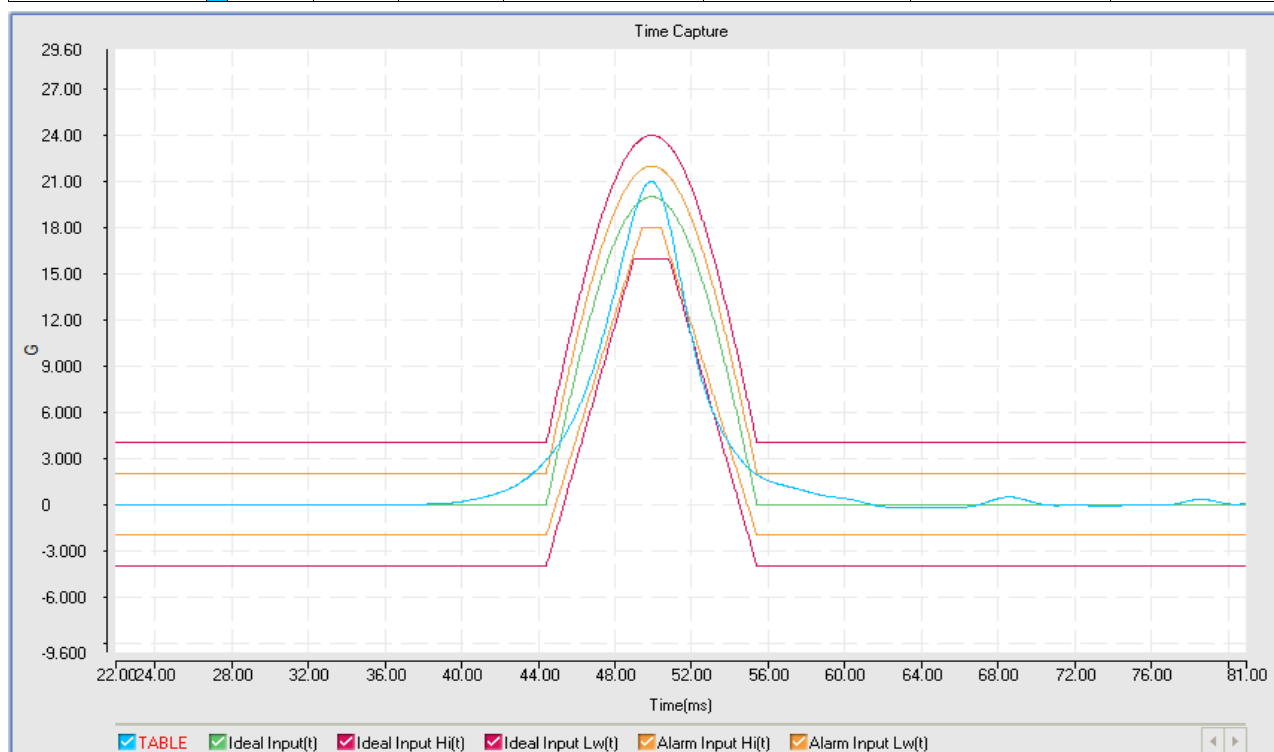


FIG 13.2: +Z axis direction mounted



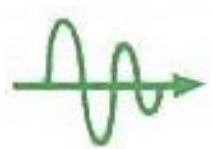
FIG 14 : +Z Axis Test screen.

Name	G	ms	cm/s	LP Filter(Hz)	Maximum(G)	Minimum(G)	Description
Ideal Input(t)	20.00	11.00	137.25	--	20.00	0.00	
TABLE	20.99	11.46	117.71	363.64	20.99	-0.55	



Total Frames:10 Current Frames:10

Test Time:2025-03-04 07:59:13 Reporting Time:2025-03-04 08:06:37



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FIG 15.1: -Z axis direction mounted

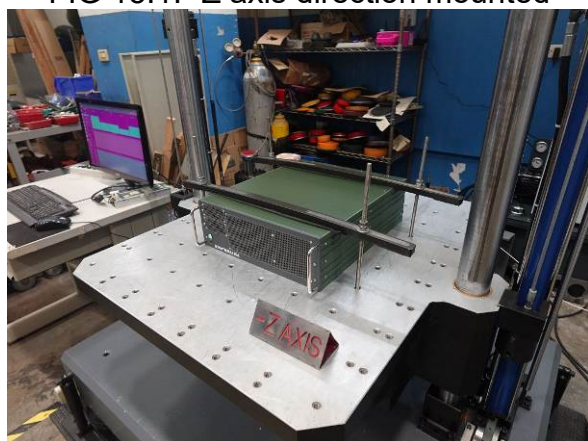
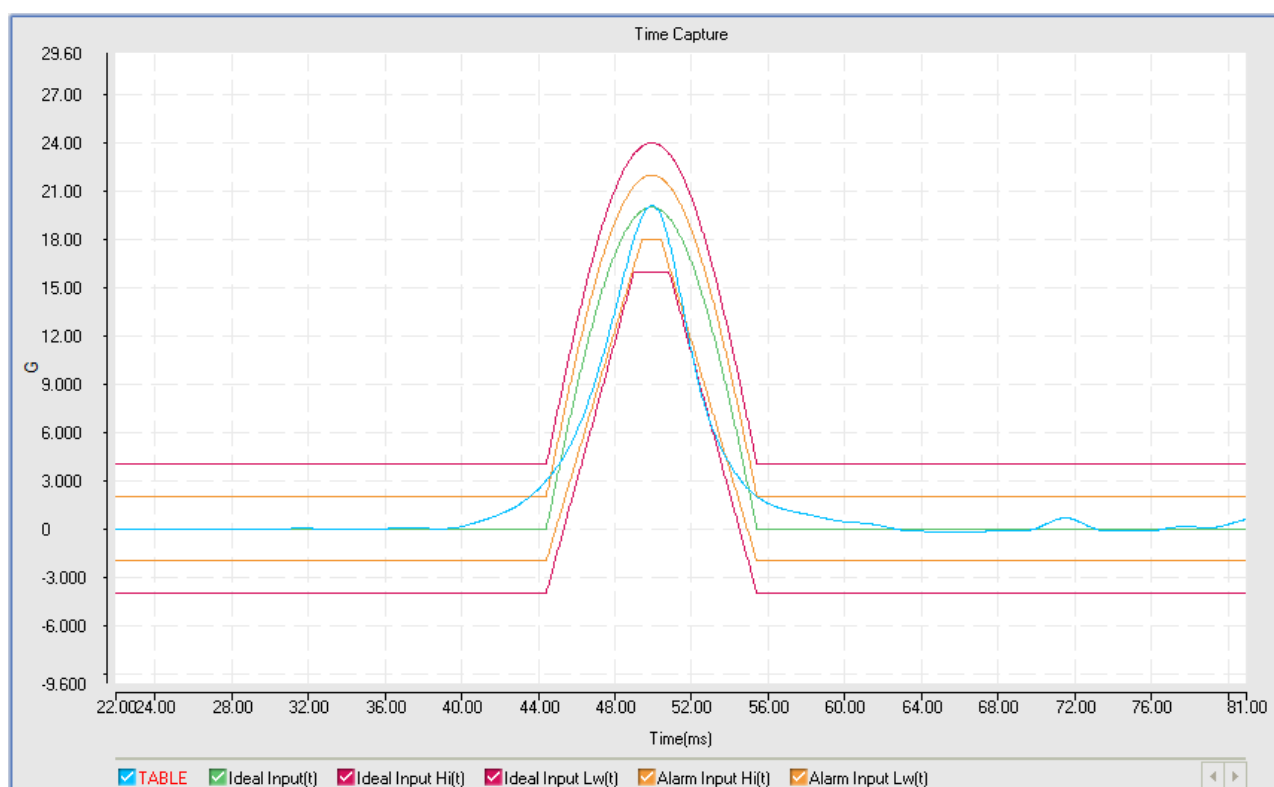


FIG 15.2: -Z axis direction mounted



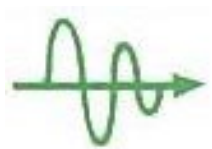
FIG 16 : -Z Axis Test screen.

Name	G	ms	cm/s	LP Filter(Hz)	Maximum(G)	Minimum(G)	Description
Ideal Input(t)	20.00	11.00	137.25	--	20.00	0.00	
TABLE	20.10	11.84	116.69	363.64	20.10	-1.17	



Total Frames:15 Current Frames:15

Test Time:2025-03-04 07:59:13 Reporting Time:2025-03-04 08:52:19



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Test 4: Shock test (40 G 、 11 ms & Non-operating)

FIG 17.1: +Z axis direction mounted

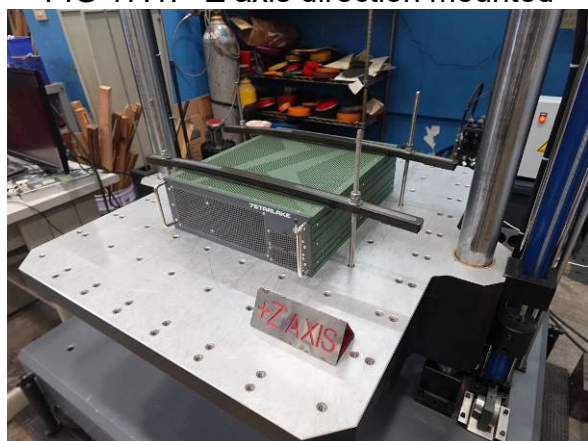
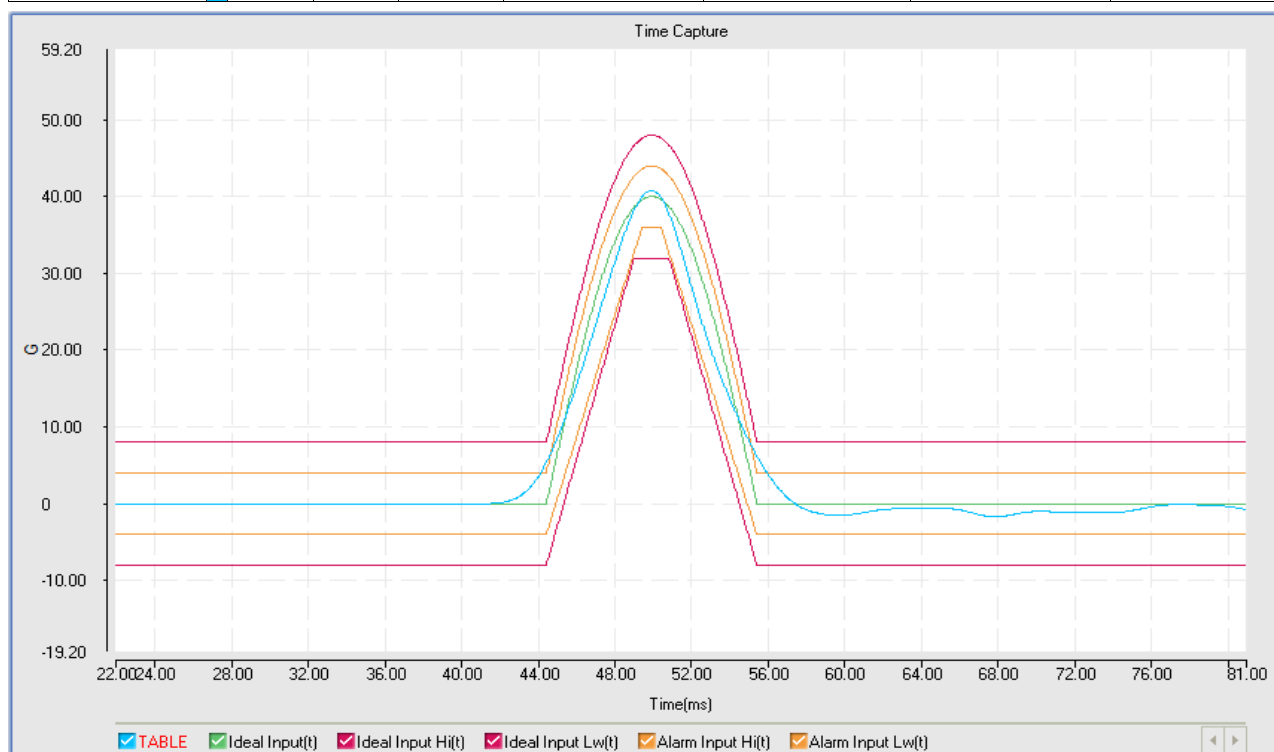


FIG 17.2: +Z axis direction mounted



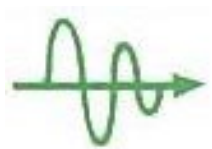
FIG 18 : +Z Axis Test screen.

Name	G	ms	cm/s	LP Filter(Hz)	Maximum(G)	Minimum(G)	Description
Ideal Input(t)	40.00	11.00	274.51	--	40.00	0.00	
TABLE	40.76	11.80	268.41	363.64	40.76	-2.29	



Total Frames:16 Current Frames:16

Test Time:2025-03-04 09:04:05 Reporting Time:2025-03-04 09:08:42



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FIG 19.1: -Z axis direction mounted

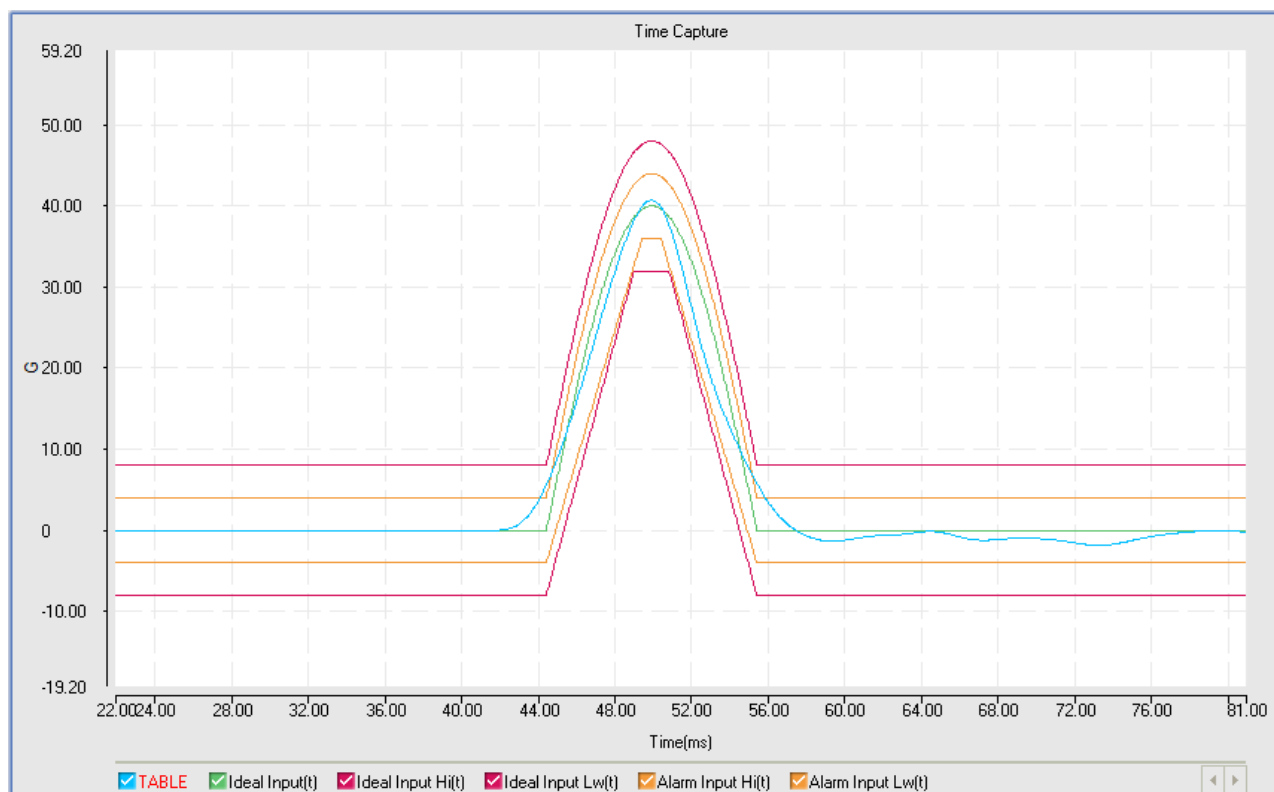


FIG 19.2: -Z axis direction mounted



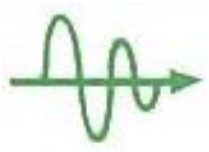
FIG 20 : -Z Axis Test screen.

Name	G	ms	cm/s	LP Filter(Hz)	Maximum(G)	Minimum(G)	Description
Ideal Input(t)	40.00	11.00	274.51	--	40.00	0.00	
TABLE	40.68	11.74	265.84	363.64	40.68	-2.47	



Total Frames:18 Current Frames:18

Test Time:2025-03-04 09:04:05 Reporting Time:2025-03-04 09:16:27



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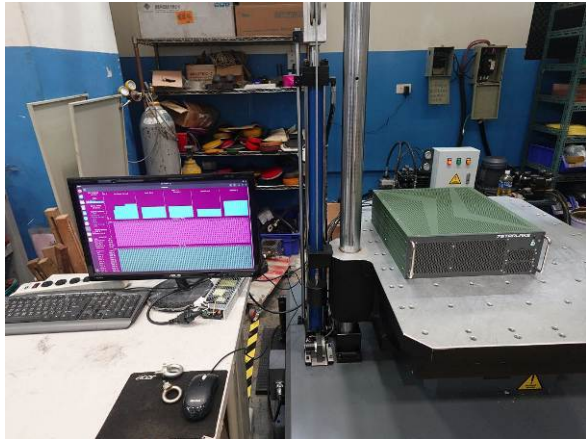
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
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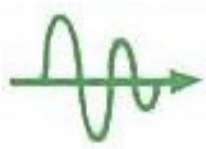
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1130305-06

Posterior check photos





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Report No.: VS-TV-1130305-06

II 、 Test Description

1. Date of Test

This test was performed on Mar 03 ~ 04, 2025

2. Test Location

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

3. Test Procedures

This test was carried out according to the following documents: (VS-LP-TV-01(2)).

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	2025/03/07	2026/03/06
Accelerometer	PCB	J353B32	86797		

Calibration and Traceability to Vibration Source Technology CO., TD.
Vibration Calibration Laboratory (TAF 2465)
(Calibration Report No.: VS-CV-1140307-01)

Specimen	Manufacturer	Model	Serial NO.	Calibration Date	Validity Date
Mechanical Shock Tester	Vibration Source Technology CO., LTD	SHOCK-800-100	S114001	2025/01/10	2026/01/09
Accelerometer	PCB	M350C04	69577		

Calibration and Traceability to Vibration Source Technology CO., LTD.
Vibration Calibration Laboratory
(Calibration Report No.: VS-CS-1140110-01)

III 、 Reference

1. Vibration testing procedures (VS-LP-TV-01(2)),
VIBRATION SOURCE TECHNOLOGY CO., LTD.

The End.