

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-1130415-01

Test Report

Date of Issue: 2024 / 04 / 15

Specimen :	Infinity-Alto Sax
Company name :	Vecow Co., Ltd.
Company address :	3F., No.10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan

The result of this test report, performed by

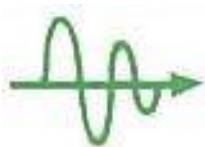
VIBRATION SOURCE TECHNOLOGY CO., LTD. is specified in this report.

When the cover and the following 16 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





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.)

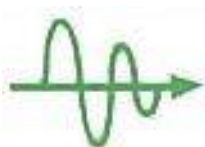
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1130415-01

I - Test Information

Test Report NO.	VS-TV-1130415-01
Company name	Vecow Co., Ltd.
Specimen	Infinity-Alto Sax
Product Name	High-Endurance System
Product interior information:	CPU: 14 th Gen Intel Core i7-14700T@1.30 GHz RAM: Innodisk DDR4 2666 non-ECC 16GB*2 SSD: Innodisk 2.5" SATA SSD 3TG6-P 512GB*2 M.2: Innodisk M.2(P80) 4TG2-P 4TB
Model No	HEC-1000
Quantity	1 PCS
Dimension	(276 x 351.6 x 130) mm
Weight	15.2 kg
Date of Test	Mar 29 ~ Apr 12, 2024



VIBRATION SOURCE TECHNOLOGY CO., LTD.

Vibration Testing Laboratory

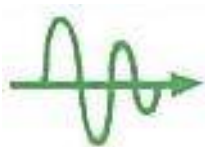
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864, Taiwan (R.O.C.)

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

E-mail: info@vibsource.com

Report No.: VS-TV-1130415-01

Test Item	Test 1 : Random Vibration Test										
Test Standard	Vibration : MIL-STD-810G Method 514.6, Category 24										
Sample Condition	Operating										
Test Condition	<p>Waveform: Random Wave</p> <p>Frequency Range: (20 ~ 2000) Hz</p> <p>Axial: X · Y · Z Axis</p> <p>Acceleration: 7.7 Grms</p> <table border="1"> <tr> <td>PSD:</td> <td>Frequency</td> <td>Acceleration</td> </tr> <tr> <td></td> <td>20 ~ 1000 (Hz)</td> <td>0.04 (g)²/Hz</td> </tr> <tr> <td></td> <td>1000 ~ 2000 (Hz)</td> <td>-6 (dB/Oct)</td> </tr> </table> <p>Vibration Axial: X, Y, Z</p> <p>Single Axis Time: 1 Hour</p> <p>Total Time: 3 Hours</p> <p>FIG 1.1 ~ 1.2: X axis direction mounted</p> <p>FIG 2: X axis test screen</p> <p>FIG 3.1 ~ 3.2: Y axis direction mounted</p> <p>FIG 4: Y axis test screen</p> <p>FIG 5.1 ~ 5.2: Z axis direction mounted</p> <p>FIG 6: Z axis test screen</p>		PSD:	Frequency	Acceleration		20 ~ 1000 (Hz)	0.04 (g) ² /Hz		1000 ~ 2000 (Hz)	-6 (dB/Oct)
PSD:	Frequency	Acceleration									
	20 ~ 1000 (Hz)	0.04 (g) ² /Hz									
	1000 ~ 2000 (Hz)	-6 (dB/Oct)									
Test Result	Appearance:	No external physical damage									
	Function:	Upon Applicant's comment.									



VIBRATION SOURCE TECHNOLOGY CO., LTD.

Vibration Testing Laboratory

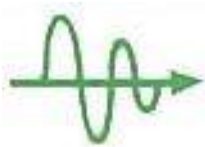
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
Taiwan (R.O.C.)

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

E-mail: info@vibsource.com

Report No.: VS-TV-1130415-01

Test Item	Test 2 : Mechanical Shock Test
Test Standard	MIL-STD-810, Method 516.6, Procedure I - Functional Shock test
Sample Condition	Operating
Test Condition	Waveform: Final Peak Sawtooth Wave Acceleration: 40 G Duration Time: 11ms Vibration Axial: 3 Axis , 6 Faces Shock Times: 3 time Total Time: 18 times FIG 7.1 ~ 7.2: +X axis direction mounted FIG 8: +X axis test screen FIG 9.1 ~ 9.2: -X axis direction mounted FIG 10: -X axis test screen FIG 11.1 ~ 11.2: +Y axis direction mounted FIG 12: +Y axis test screen FIG 13.1 ~ 13.2: -Y axis direction mounted FIG 14: -Y axis test screen FIG 15.1 ~ 15.2: +Z axis direction mounted FIG 16: +Z axis test screen FIG 17.1 ~ 17.2: -Z axis direction mounted FIG 18: -Z axis test screen FIG 19.1 ~ 19.2: Posterior check.



VIBRATION SOURCE TECHNOLOGY CO., LTD.

Vibration Testing Laboratory

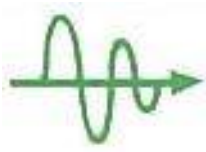
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
Taiwan (R.O.C.)

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

E-mail: info@vibsource.com

Report No.: VS-TV-1130415-01

Test Result	Appearance: No external physical damage Function: Upon Applicant's comment.	
Test Conducted By		Report Prepared By
Archie Chen <i>Archie Chen</i>		Jane <i>Jane</i>



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-1130415-01

Test 1 : (Random Vibration Test)

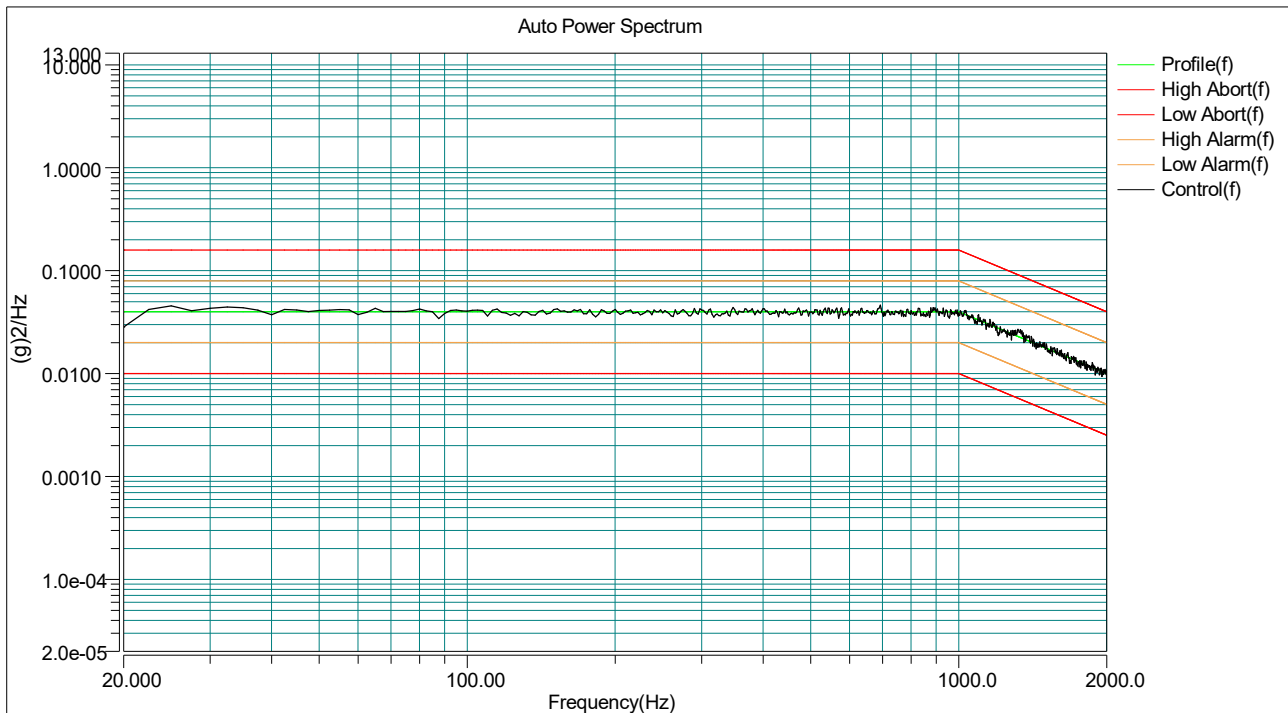
FIG 1.1: X axis direction mounted



FIG 1.2: X axis direction mounted



FIG 2: X axis test screen



Current Level: 100 %

Demand RMS: 7.70003 g

Control RMS: 7.70308 g

Frame Time: 0.400000 (s)

Lines: 800

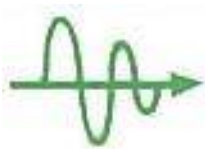
dF: 2.500000 Hz

DOF: 300

Test Elapsed: 01:00:20

Remaining Time: 00:00:00

Data was saved as a file at time: 2024-4-12 AM 11:49:38



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-1130415-01

FIG 3.1: Y axis direction mounted

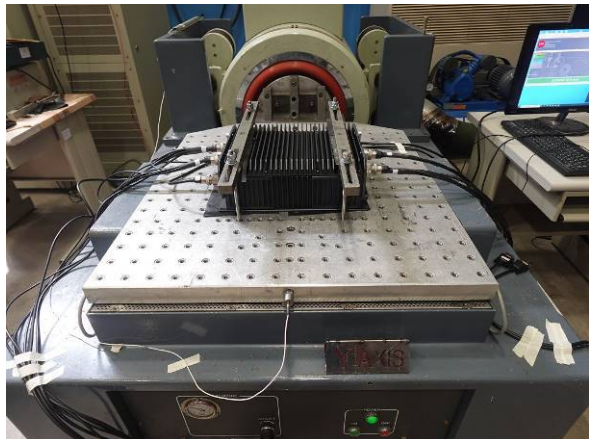
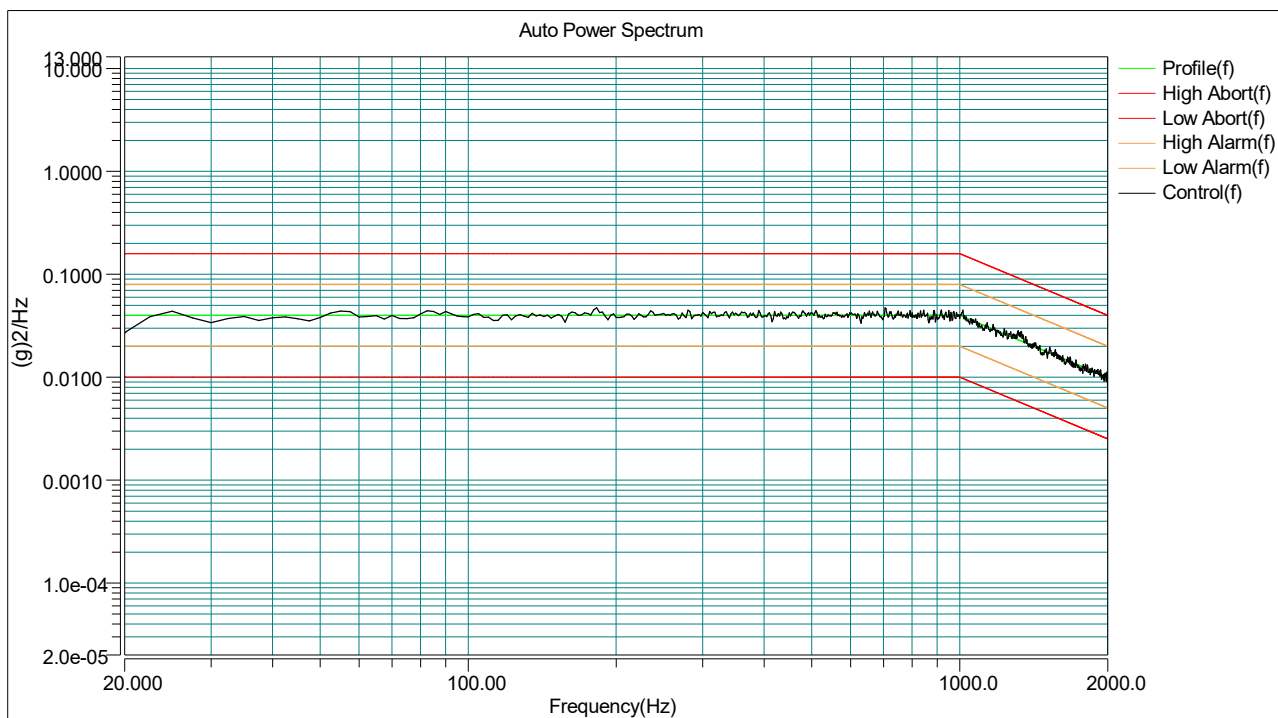


FIG 3.2: Y axis direction mounted



FIG 4: Y axis test screen



Current Level: 100 %

Demand RMS:7.70003 g

Control RMS: 7.72551 g

Frame Time:0.400000 (s)

Lines:800

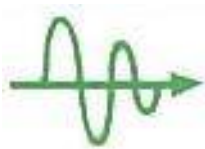
dF:2.500000 Hz

DOF:300

Test Elapsed:01:00:20

Remaining Time:00:00:00

Data was saved as a file at time:2024-4-12 PM 02:53:01



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-1130415-01

FIG 5.1: Z axis direction mounted

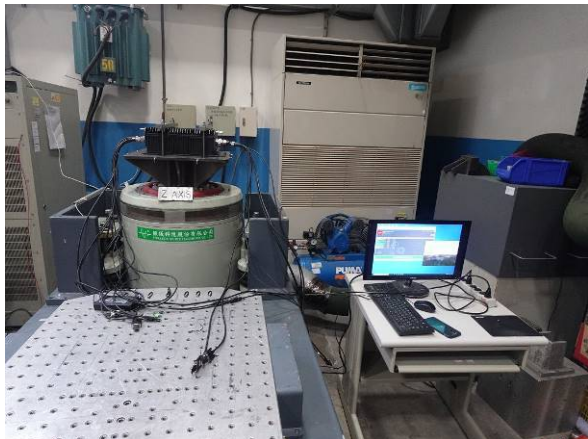
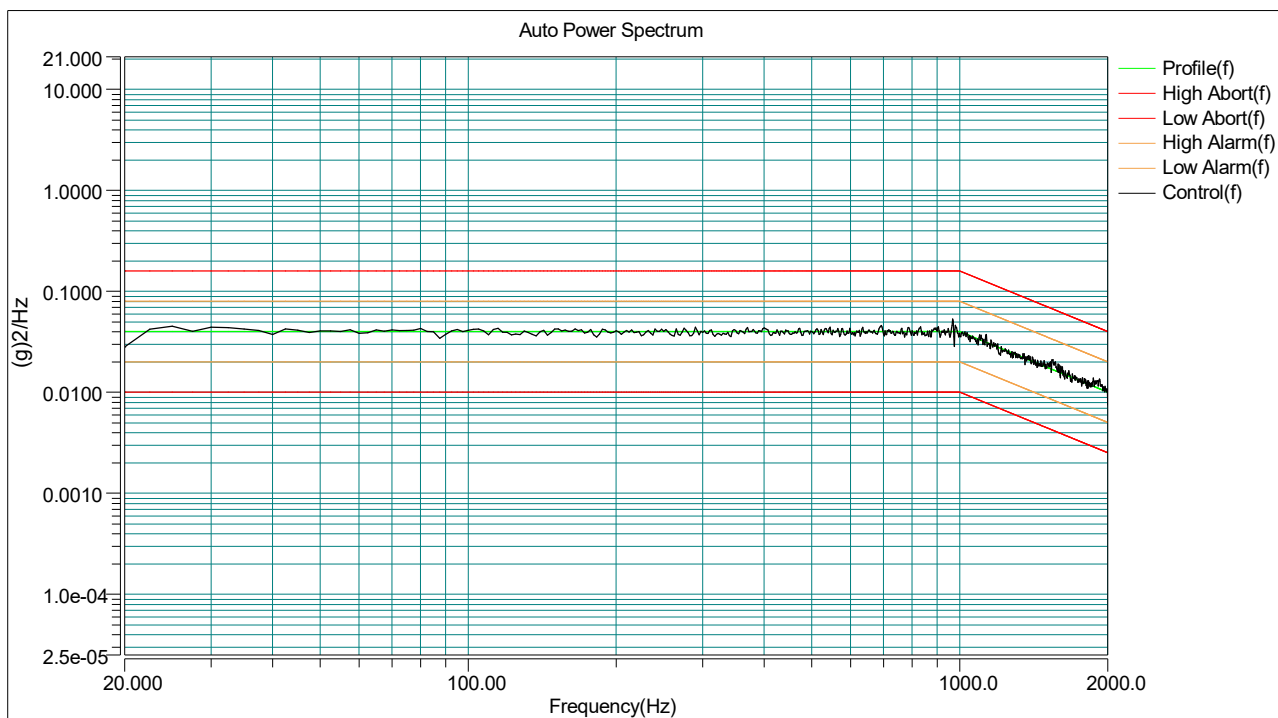


FIG 5.2: Z axis direction mounted



FIG 6: Z axis test screen



Current Level: 100 %

Demand RMS: 7.70003 g

Control RMS: 7.72573 g

Frame Time: 0.400000 (s)

Lines: 800

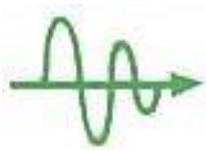
dF: 2.500000 Hz

DOF: 300

Test Elapsed: 01:00:20

Remaining Time: 00:00:00

Data was saved as a file at time: 2024-4-15 AM 09:51:35



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-1130415-01

Test 2 : Mechanical Shock Test

FIG 7.1: +X axis direction mounted



FIG 7.2: +X axis direction mounted



FIG.8 : +X Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:40.112 g

Block Size:2048

Frame Time:0.3413 s

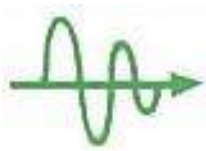
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0Data was

saved as a file at time:2024-3-29 PM 03:04:30



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-1130415-01

FIG 9.1: -X axis direction mounted

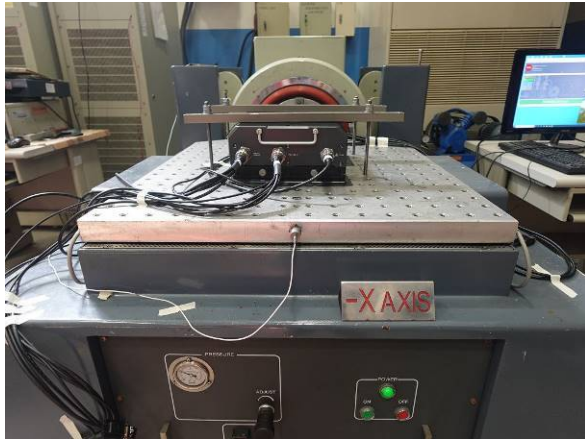


FIG 9.2: -X axis direction mounted



FIG.10 : -X Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:40.340 g

Block Size:2048

Frame Time:0.3413 s

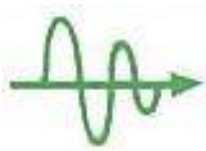
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0

Data was saved as a file at time:2024-3-29 PM 03:07:44



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-1130415-01

FIG 11.1: +Y axis direction mounted

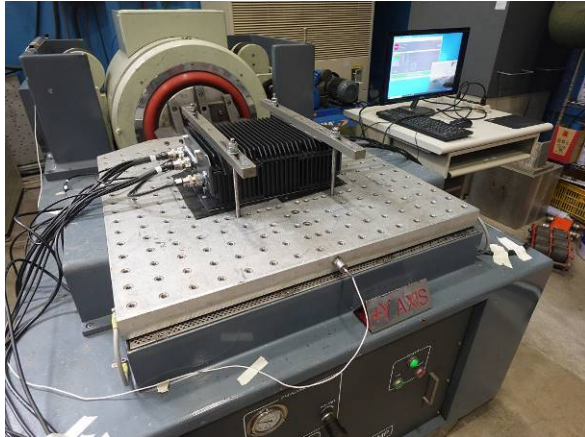
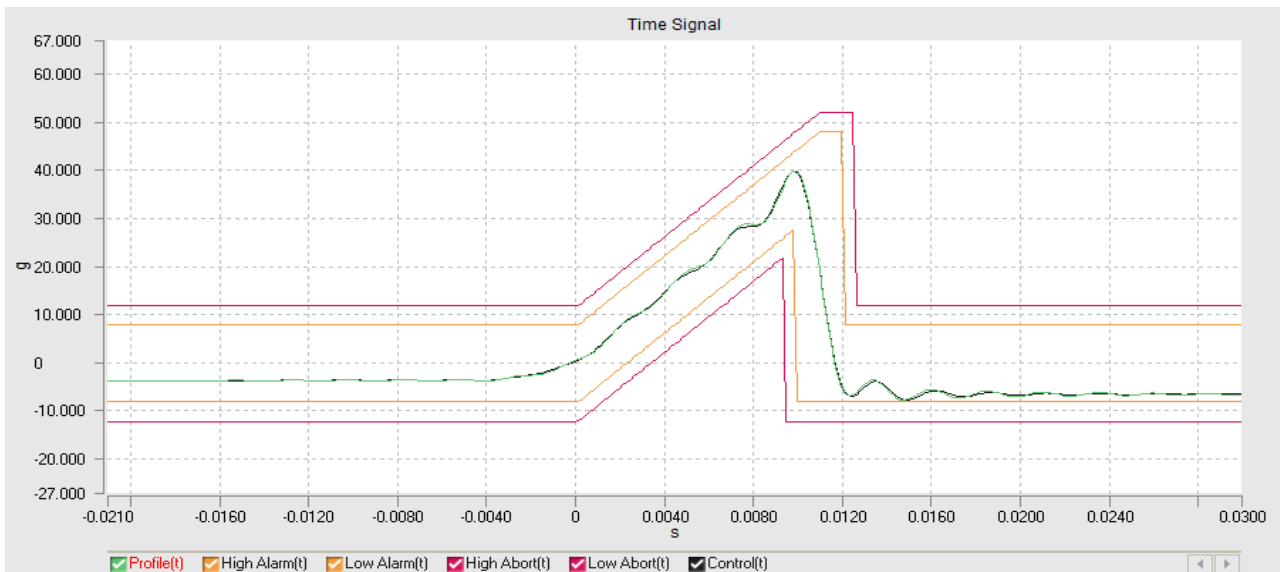


FIG 11.2: +Y axis direction mounted



FIG.12 : +Y Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:40.474 g

Block Size:2048

Frame Time:0.3413 s

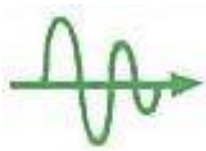
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0

Data was saved as a file at time:2024-3-29 PM 01:44:21



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-1130415-01

FIG 13.1: -Y axis direction mounted

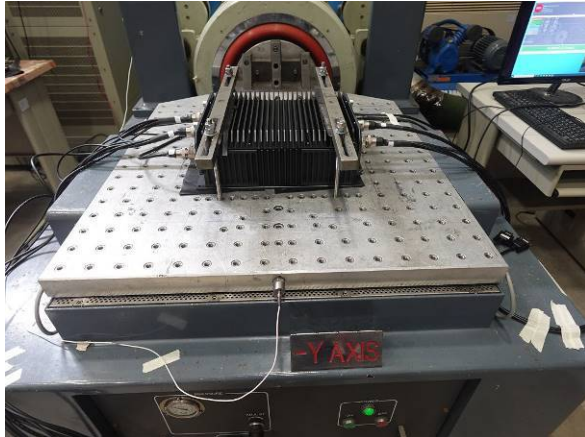
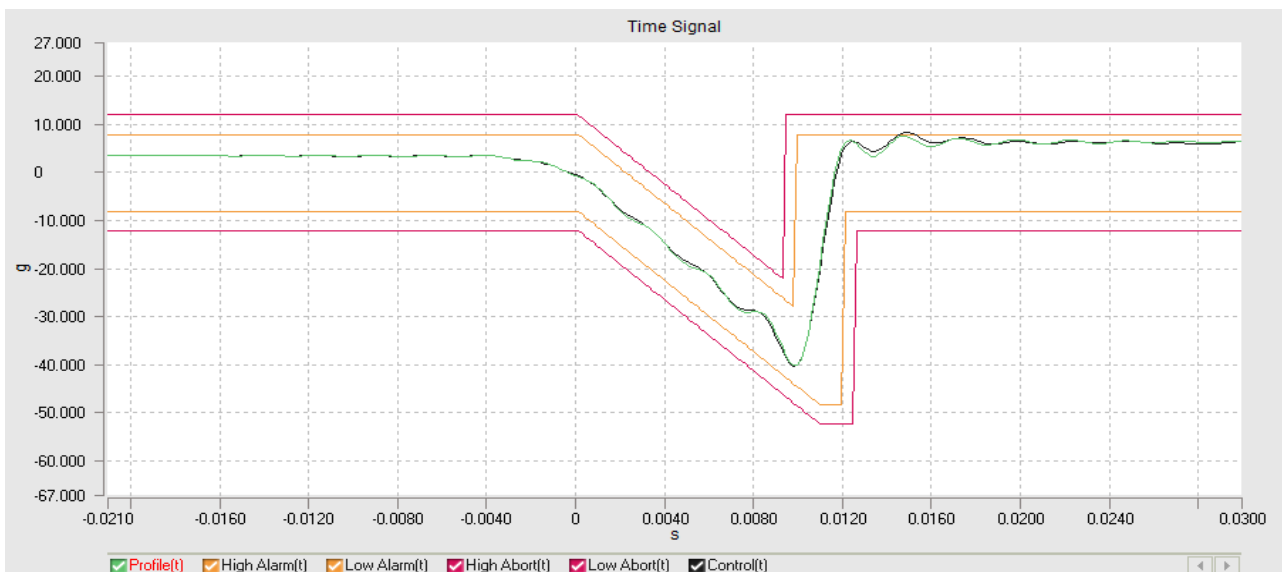


FIG 13.2: -Y axis direction mounted



FIG.14 : -Y Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:40.093 g

Block Size:2048

Frame Time:0.3413 s

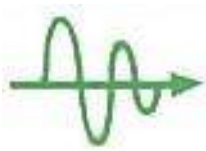
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0

saved as a file at time:2024-3-29 PM 01:50:38



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-1130415-01

FIG 15.1: +Z axis direction mounted

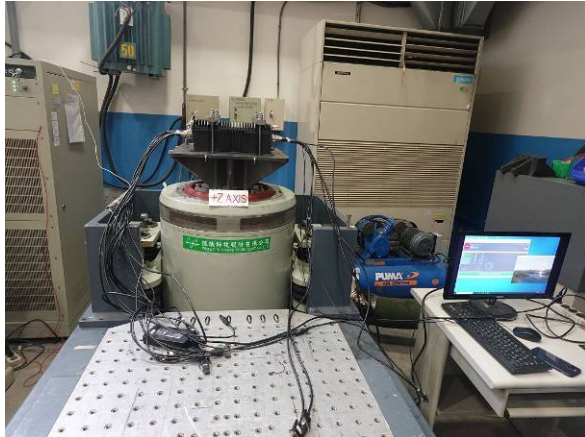
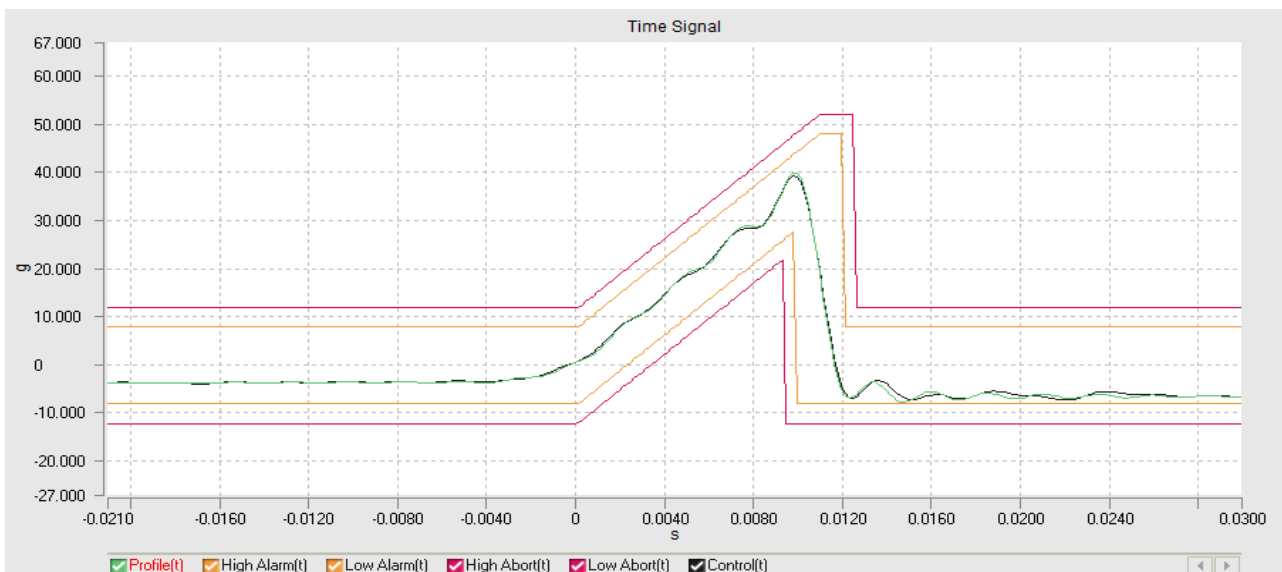


FIG 15.2: +Z axis direction mounted



FIG.16 : +Z Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:39.474 g

Block Size:2048

Frame Time:0.3413 s

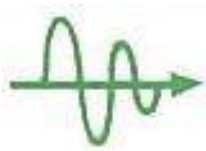
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0

Data was saved as a file at time:2024-3-29 AM 11:17:52



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-1130415-01

FIG 17.1: -Z axis direction mounted

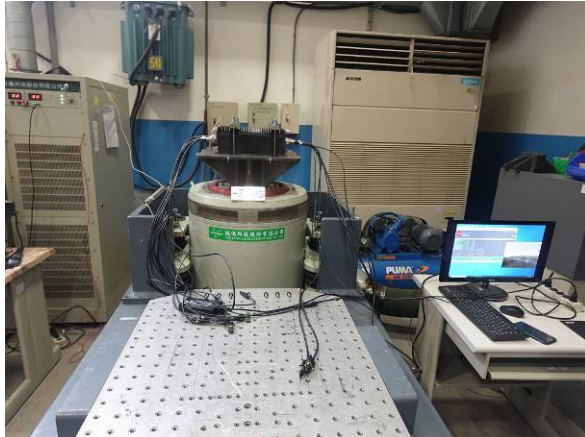
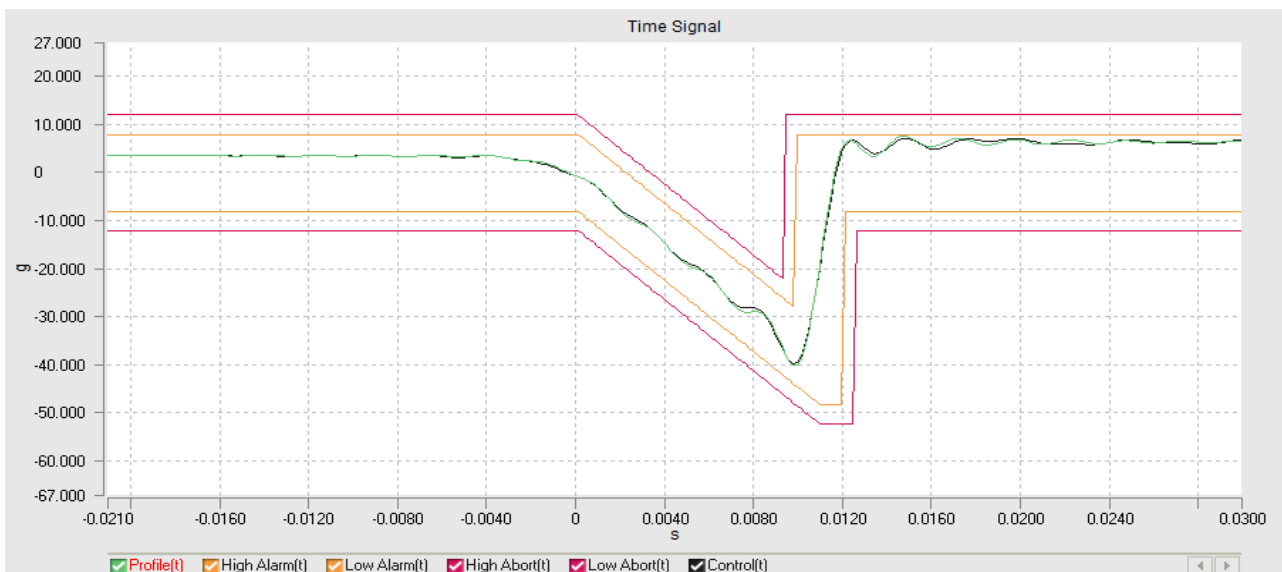


FIG 17.2: -Z axis direction mounted



FIG.18 : -Z Axis Test screen.



Shock Type:Final Peak Saw Tooth

Mag:40.00 g

Pulse Duration:11 ms

Current level: 100 %

Demand peak: 40.000 g

Control peak:39.641 g

Block Size:2048

Frame Time:0.3413 s

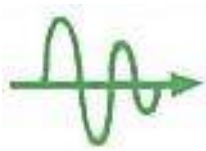
dT:0.000166667 s

Current Pulses: 3

Output pulses: 15

Remain pulses: 0Data was

saved as a file at time:2024-3-29 AM 11:31:10



VIBRATION SOURCE TECHNOLOGY CO., LTD.

Vibration Testing Laboratory

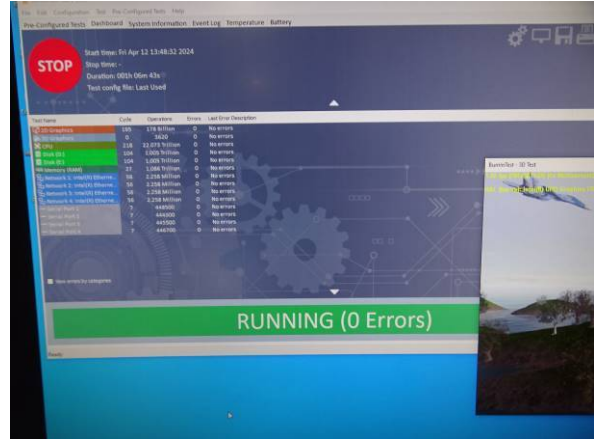
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864, Taiwan (R.O.C.)

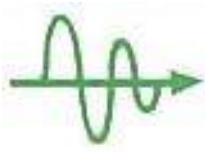
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1130415-01

Posterior check.
FIG.19.1 ~ 19.2





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-1130415-01

II 、 Test Description

1. Date of Test

This test was performed on Mar 29 ~ Apr 12, 2024

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-TS-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)

III 、 Reference

1. Vibration testing procedures (VS-LP-TV-01)V3.1.

VIBRATION SOURCE TECHNOLOGY CO., LTD.

The End.