

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-100311-02

Test Report

Date of Issue: 2021 / 03 / 11

Basic Model name	Nuvo-2700DS
Applicant Company Name	Neousys Technology Inc.
Applicant Address	15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist., New Taipei City, 23586, Taiwan

The result of this test report, performed by

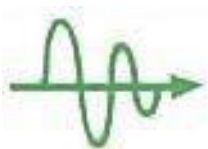
VIBRATION SOURCE TECHNOLOGY CO., LTD. is specified in this report.

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





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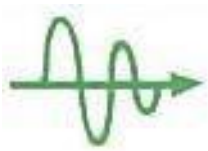
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Report No.: VS-TV-100311-02

I 、 Test Information

Test Report NO.	VS-TV-100311-02
Applicant Company Name	Neosys Technology Inc.
Applicant Address	15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist., New Taipei City, 23586, Taiwan
Manufacturer Company Name	Neosys Technology Inc.
Manufacturer Address	15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist., New Taipei City, 23586, Taiwan
Brand (Trade) Name	NEOUSYS TECHNOLOGY 
Product Name	Nuvo-2700DS Series (With M.2 SATA SSD)
Basic Model name	Nuvo-2700DS
Quantity	1 PCS
Power Rating	8-35 Vdc
MAX Working Frequency	2.0 GHz
Date of Test	MAR 10, 2021
Test Standard	Test 1 : Vibration : MIL-STD-810G w/Change 1, Method 514.7, Procedure I, Table 514.7C-I Category 4 - Common carrier Test 2 : Shock : MIL-STD-810G w/CHANGE 1, Method 516.7, Procedure I - Functional 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes/ 3 shock, total: 18 shocks)



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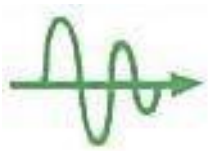
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Report No.: VS-TV-100311-02

Test Item	Test 1 : Random Vibration Test																																																																	
Sample Condition	Operating (Execute “ BurnIn Test”)																																																																	
	Waveform:	Random Wave																																																																
	Frequency																																																																	
	Range:	(10 ~ 500) Hz																																																																
	Axial:	Vertical	Transverse		Longitudinal																																																													
		(Z Axis)	(X Axis)		(Y Axis)																																																													
	Acceleration:	RMS=1.04 G	RMS=0.20 G		RMS=0.74 G																																																													
	PSD:	<table><tr><th colspan="2">Vertical (Z)</th><th colspan="2">Transverse(X)</th><th colspan="2">Longitudinal(Y)</th></tr><tr><th>Frequency, Hz</th><th>PSD g²/Hz</th><th>Frequency, Hz</th><th>PSD g²/Hz</th><th>Frequency, Hz</th><th>PSD g²/Hz</th></tr><tr><td>10</td><td>0.01500</td><td>10</td><td>0.00013</td><td>10</td><td>0.00650</td></tr><tr><td>40</td><td>0.01500</td><td>20</td><td>0.00065</td><td>20</td><td>0.00650</td></tr><tr><td>500</td><td>0.00015</td><td>30</td><td>0.00065</td><td>120</td><td>0.00020</td></tr><tr><td colspan="2" rowspan="4">RMS=1.04G</td><td>78</td><td>0.00002</td><td>121</td><td>0.00300</td></tr><tr><td>79</td><td>0.00019</td><td>200</td><td>0.00300</td></tr><tr><td>120</td><td>0.00019</td><td>240</td><td>0.00150</td></tr><tr><td>500</td><td>0.00001</td><td>340</td><td>0.00003</td></tr><tr><td colspan="2"></td><td colspan="2">RMS=0.20 G</td><td>500</td><td>0.00015</td></tr><tr><td colspan="6">RMS=0.74 G</td></tr></table>					Vertical (Z)		Transverse(X)		Longitudinal(Y)		Frequency, Hz	PSD g ² /Hz	Frequency, Hz	PSD g ² /Hz	Frequency, Hz	PSD g ² /Hz	10	0.01500	10	0.00013	10	0.00650	40	0.01500	20	0.00065	20	0.00650	500	0.00015	30	0.00065	120	0.00020	RMS=1.04G		78	0.00002	121	0.00300	79	0.00019	200	0.00300	120	0.00019	240	0.00150	500	0.00001	340	0.00003			RMS=0.20 G		500	0.00015	RMS=0.74 G					
	Vertical (Z)		Transverse(X)		Longitudinal(Y)																																																													
	Frequency, Hz	PSD g ² /Hz	Frequency, Hz	PSD g ² /Hz	Frequency, Hz	PSD g ² /Hz																																																												
	10	0.01500	10	0.00013	10	0.00650																																																												
	40	0.01500	20	0.00065	20	0.00650																																																												
	500	0.00015	30	0.00065	120	0.00020																																																												
	RMS=1.04G		78	0.00002	121	0.00300																																																												
			79	0.00019	200	0.00300																																																												
			120	0.00019	240	0.00150																																																												
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		RMS=0.20 G		500	0.00015																																																													
RMS=0.74 G																																																																		
Vibration Axial:	X, Y, Z																																																																	
Single																																																																		
Axis Time:	1 Hour																																																																	
Total Time:	3 Hours																																																																	
FIG 1.1 ~ 1.2:	X axis direction mounted																																																																	
FIG 2:	X axis test screen																																																																	
FIG 3.1 ~ 3.2:	Y axis direction mounted																																																																	
FIG 4:	Y axis test screen																																																																	
FIG 5.1 ~ 5.2:	Z axis direction mounted																																																																	
FIG 6:	Z axis test screen																																																																	
Test Result	Appearance:	No external physical damage																																																																
	Function:	Upon Applicant’s comment.																																																																



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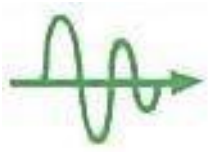
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Report No.: VS-TV-100311-02

Test Item	Test 2 : Mechanical Shock Test
Sample Condition	Operating (Execute " BurnIn Test")
Test Condition	Waveform: Final Peak Sawtooth Wave Acceleration: 20G 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 ~ 19.4: Posterior check.
Test Result	Appearance: No external physical damage Function: Upon Applicant's comment.



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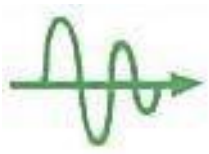
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Test Conducted By	Report Prepared By
JACKY	Archie Chen
	



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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: 0.00 dB

Demand RMS: 0.200 g

Control RMS: 0.200 g

Frame Time: 0.8000 (s)

Lines: 400

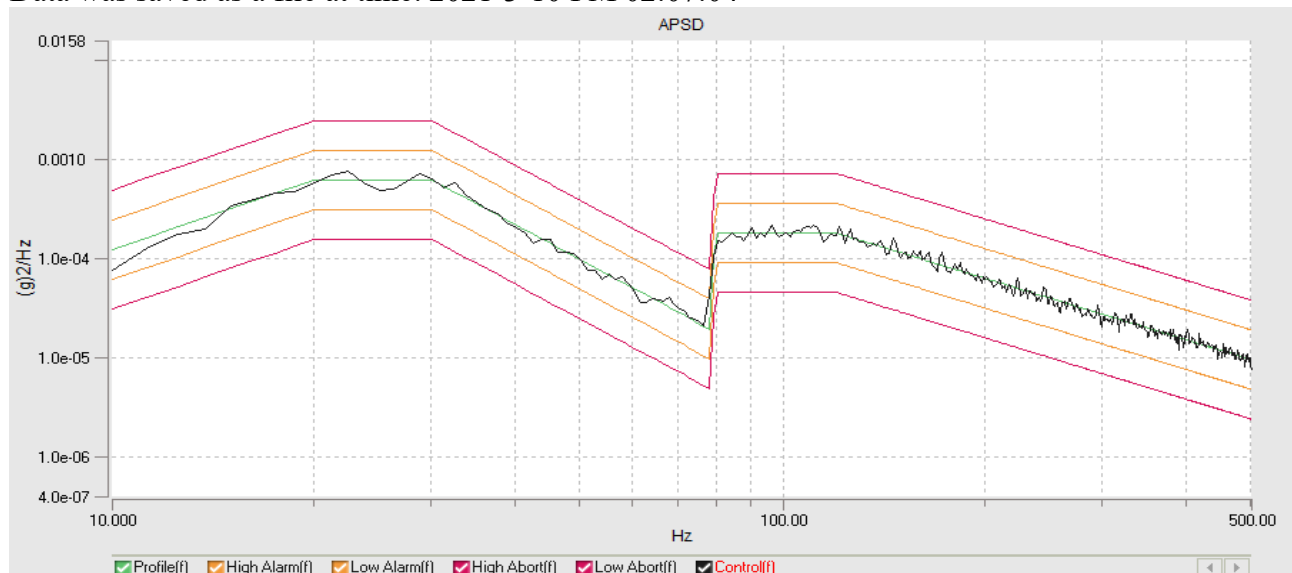
dF: 1.3 Hz

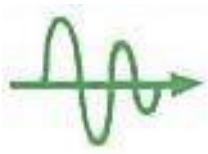
DOF: 152

Current Level Time: 01:00:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2021-3-10 PM 02:07:04





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FIG 3.1: Y axis direction mounted



FIG 3.2: Y axis direction mounted



FIG 4: Y axis test screen

Current Level: 0.00 dB

Demand RMS: 0.740 g

Control RMS: 0.742 g

Frame Time: 1.6000 (s)

Lines: 800

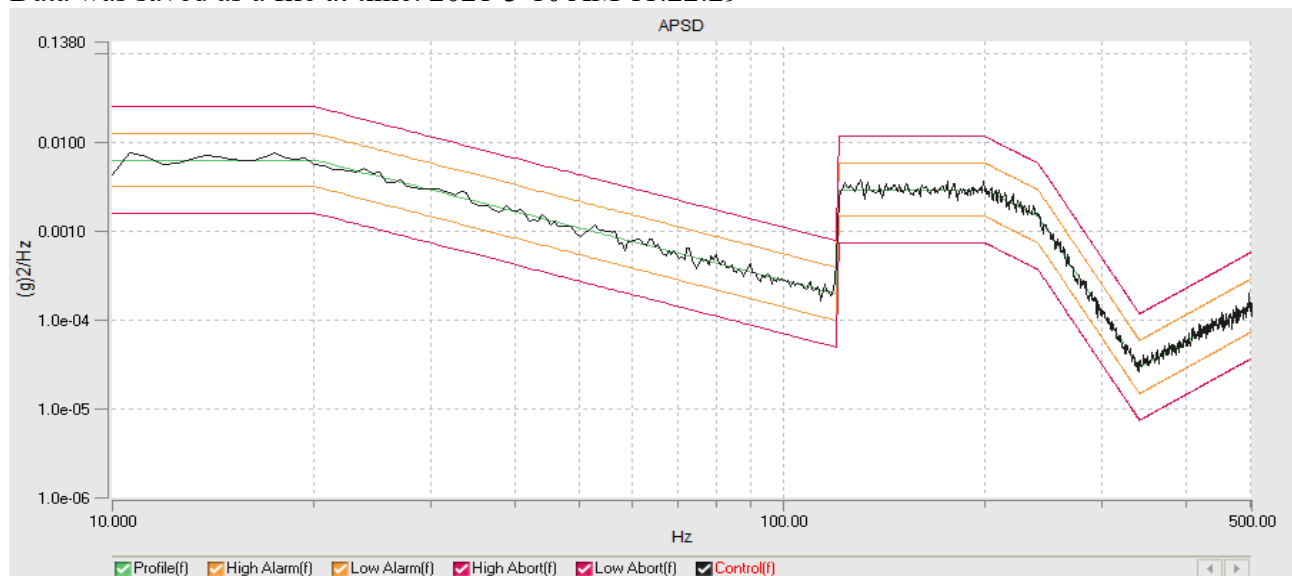
dF: 0.6 Hz

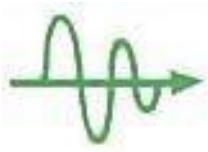
DOF: 152

Current Level Time: 01:00:00

Remaining Time: 00:00:00

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Report No.: VS-TV-100311-02

FIG 5.1: Z axis direction mounted

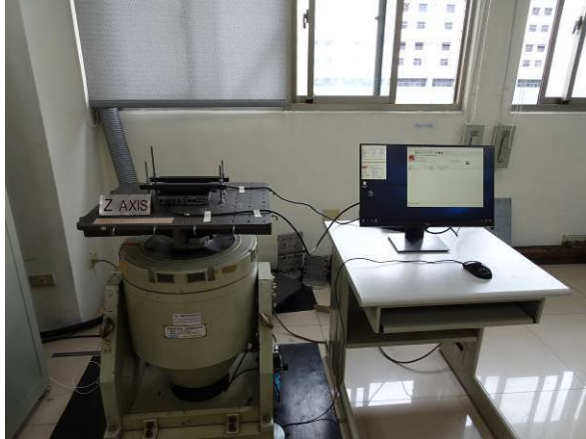


FIG 5.2: Z axis direction mounted



FIG 6: Z axis test screen

Current Level: 0.00 dB

Demand RMS: 1.040 g

Control RMS: 1.034 g

Frame Time: 0.8000 (s)

Lines: 400

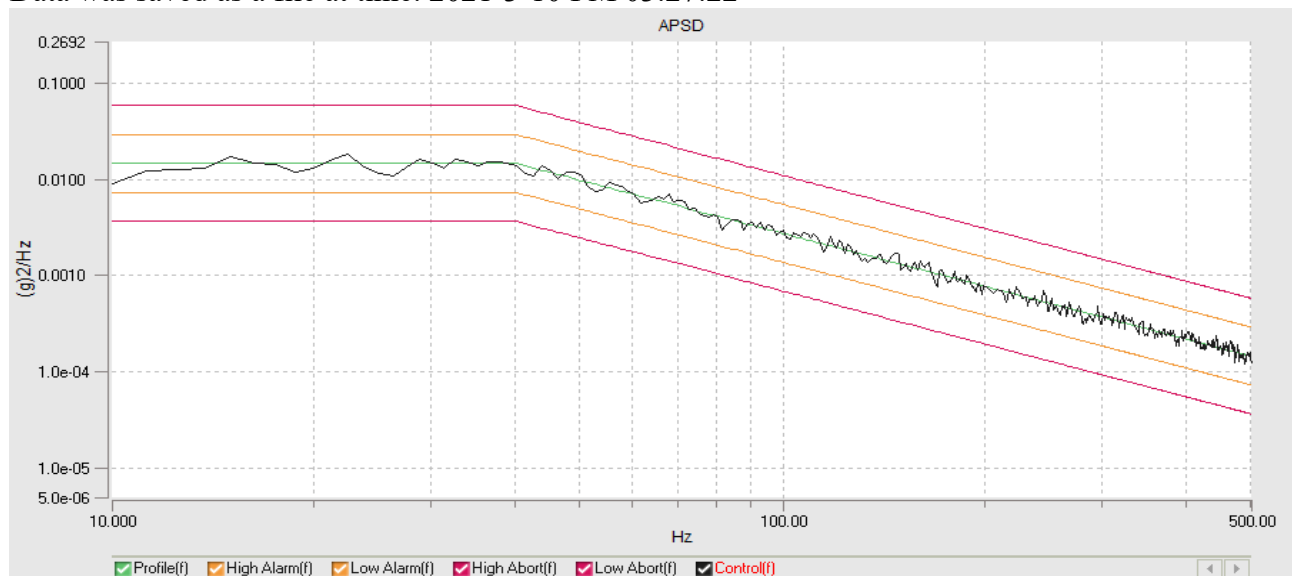
dF: 1.3 Hz

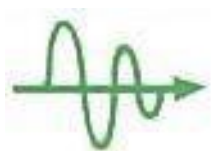
DOF: 120

Current Level Time: 01:00:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2021-3-10 PM 03:27:22





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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

Amplitude: 20.000000 g

Pulse Duration: 11.000001 ms

Current level: 100 %

Demand peak: 20.000000 g

Control peak: 20.022692 g

Block Size: 2048

Frame Time: 0.400000 s

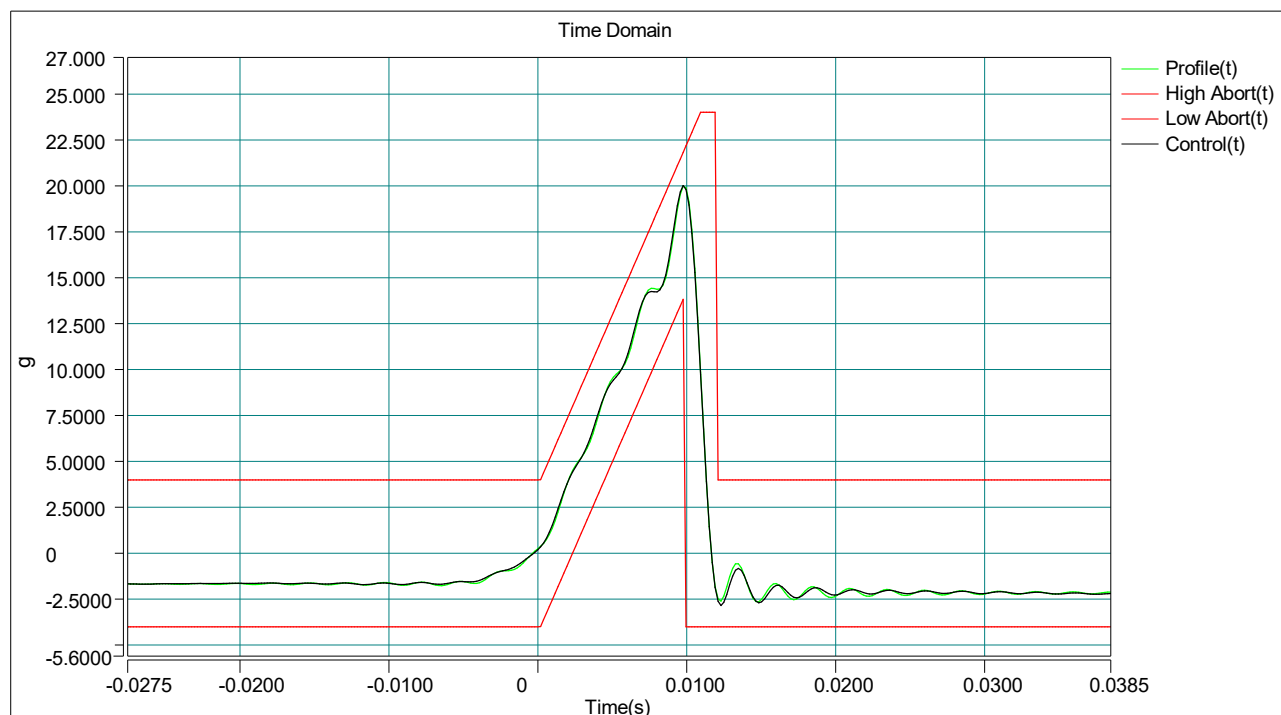
dT: 0.000195 s

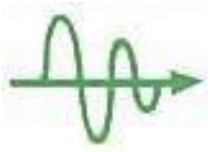
Tested pulses: 5

Output pulses: 12

Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:21:53





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FIG 9.1: -X axis direction mounted

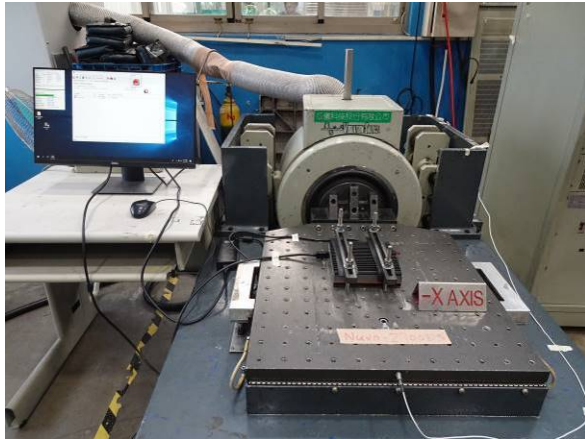


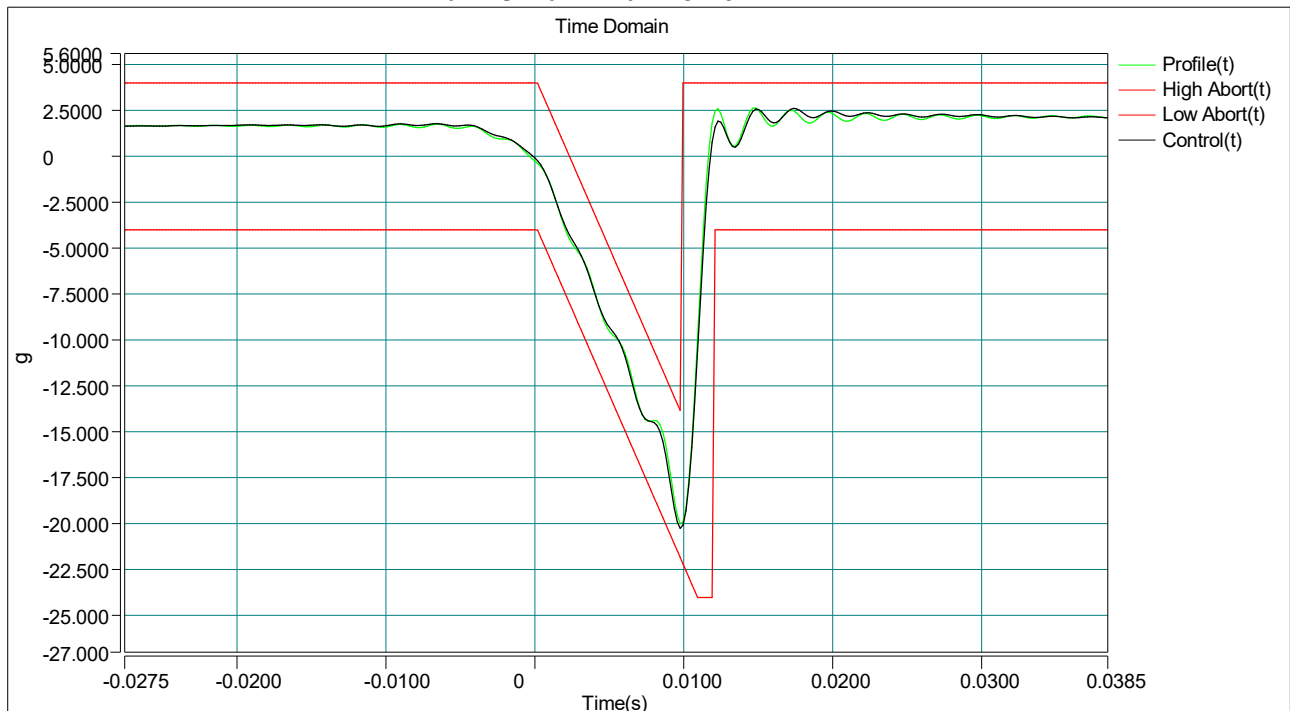
FIG 9.2: -X axis direction mounted

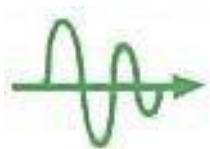


FIG.10 : -X Axis Test screen.

Shock Type: Final Peak Saw Tooth	Amplitude: 20.000000 g	Pulse Duration: 11.000001 ms
Current level: 100 %	Demand peak: 20.000000 g	Control peak: 20.251585 g
Block Size: 2048	Frame Time: 0.400000 s	dT: 0.000195 s
Tested pulses: 5	Output pulses: 12	Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:18:26





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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

Amplitude: 20.000000 g

Pulse Duration: 11.000001 ms

Current level: 100 %

Demand peak: 20.000000 g

Control peak: 20.991840 g

Block Size: 2048

Frame Time: 0.400000 s

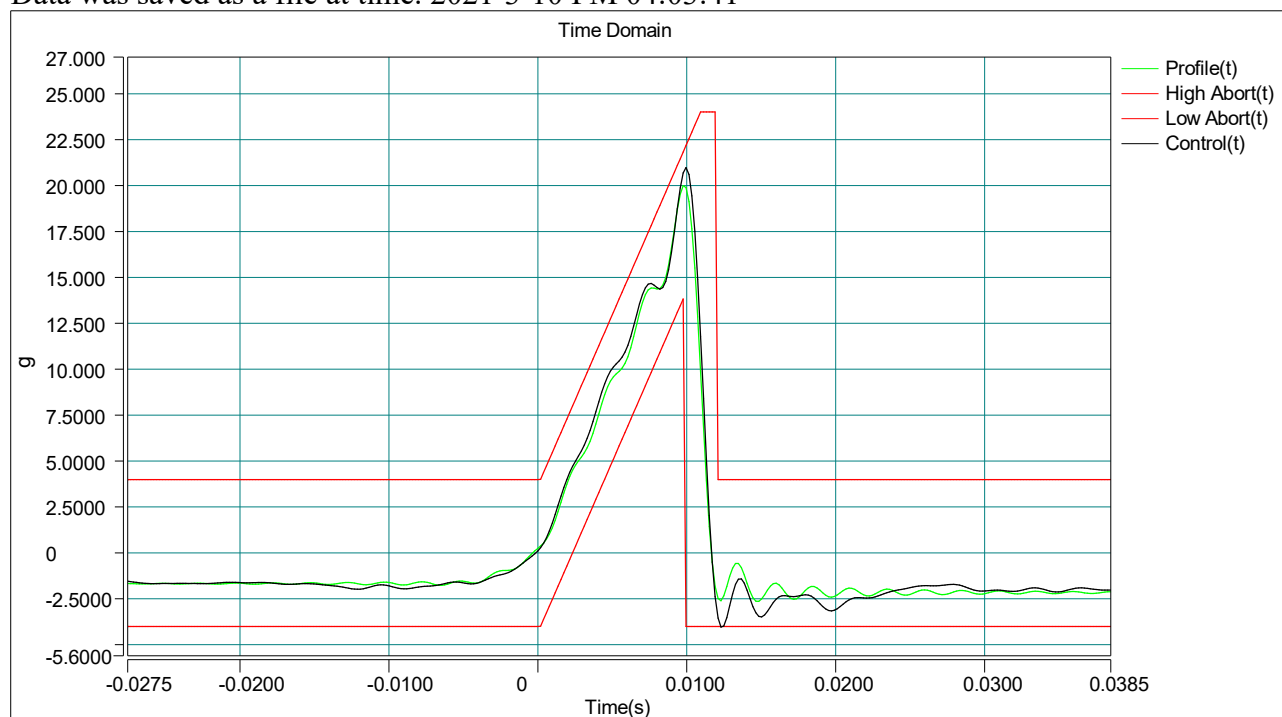
dT:0.000195 s

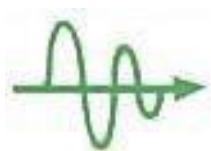
Tested pulses: 5

Output pulses: 13

Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:03:41





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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

Amplitude: 20.000000 g

Pulse Duration: 11.000001 ms

Current level: 100 %

Demand peak: 20.000000 g

Control peak: 20.047592 g

Block Size: 2048

Frame Time: 0.400000 s

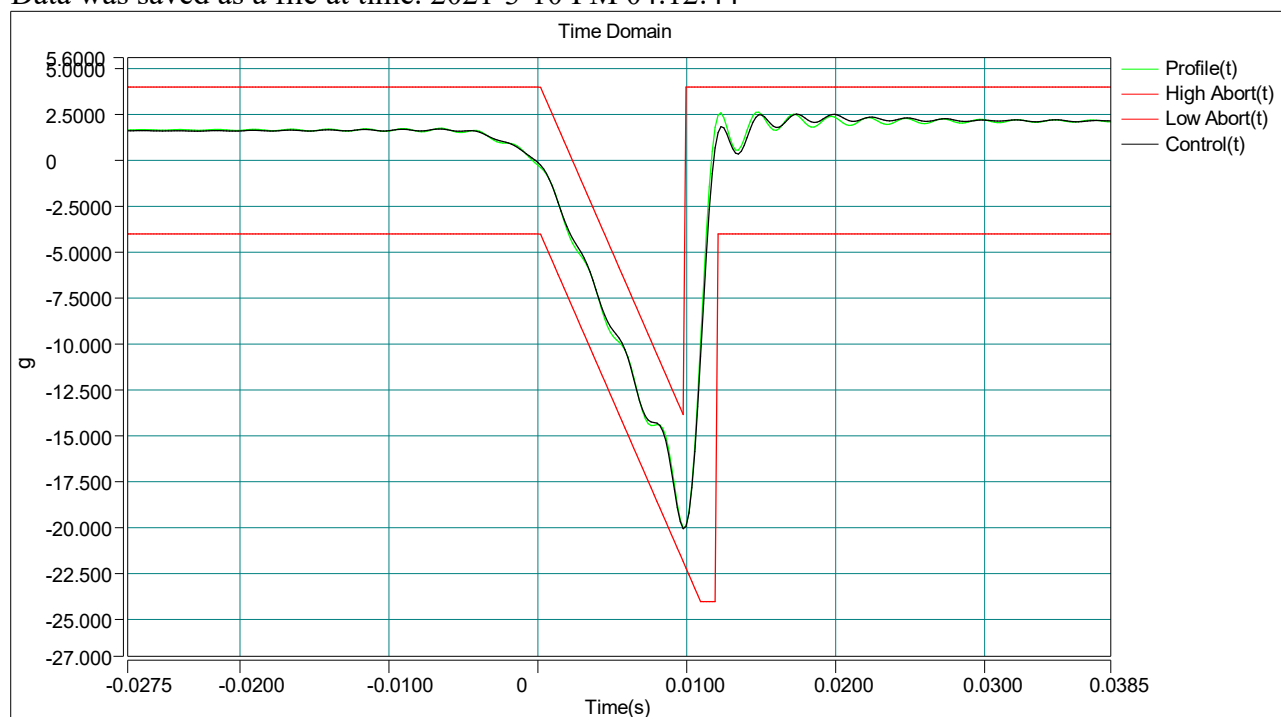
dT: 0.000195 s

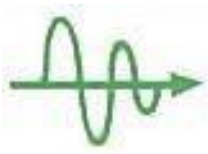
Tested pulses: 5

Output pulses: 12

Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:12:44





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FIG 15.1: +Z axis direction mounted

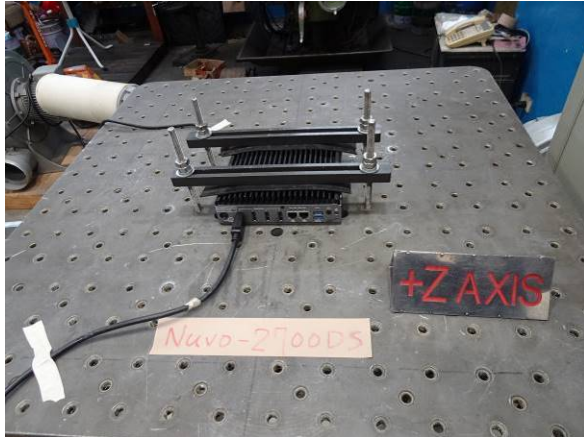


FIG 15.2: +Z axis direction mounted



FIG.16 : +Z Axis Test screen.

Shock Type: Final Peak Saw Tooth

Mag: 20.00 g

Pulse Duration: 11 ms

Current level: 0 dB

Demand peak: 20.000 g

Control peak: 19.811 g

Block Size: 2048

Frame Time: 0.6827 s

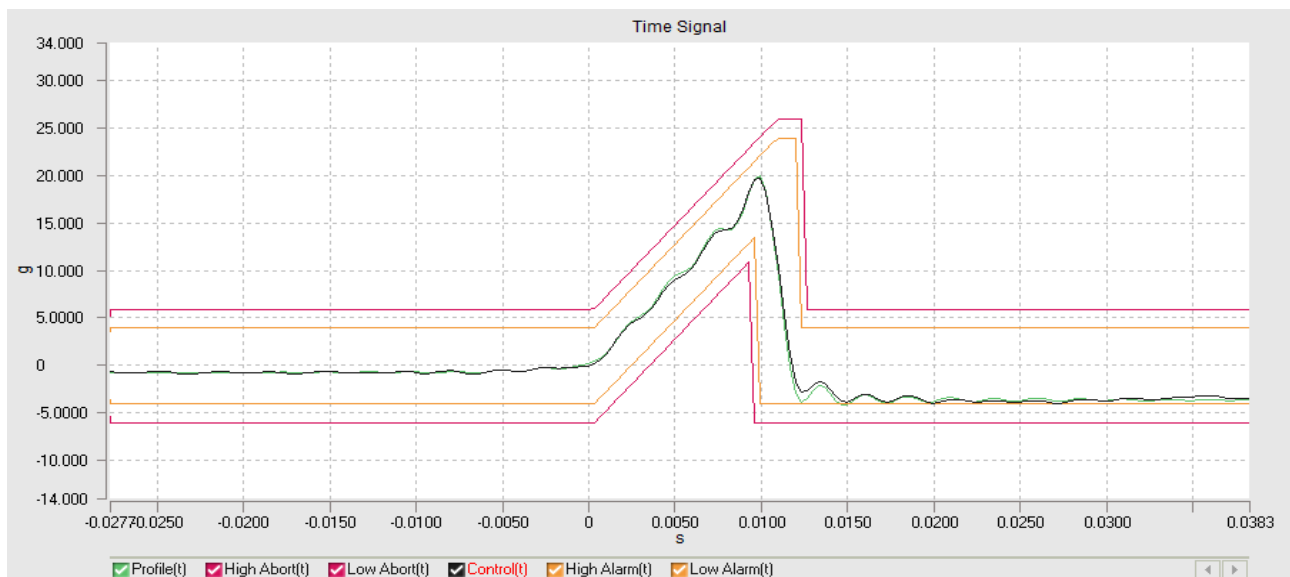
dT:0.000333333 s

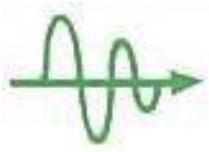
Current Pulses: 3

Output pulses: 12

Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:52:37





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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: 20.00 g

Pulse Duration: 11 ms

Current level: 0 dB

Demand peak:20.000 g

Control peak: 19.840 g

Block Size: 2048

Frame Time: 0.6827 s

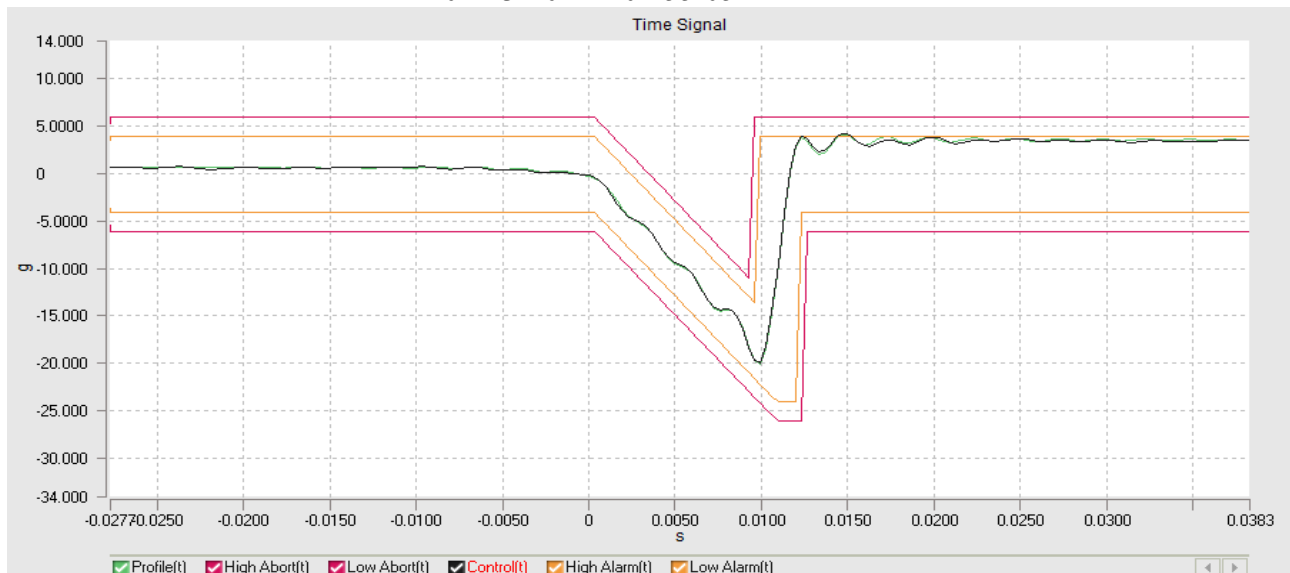
dT:0.000333333 s

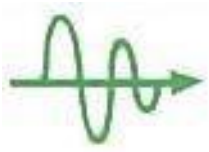
Current Pulses: 3

Output pulses: 12

Remain pulses: 0

Data was saved as a file at time: 2021-3-10 PM 04:55:05





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FIG.19.1 : Posterior check.

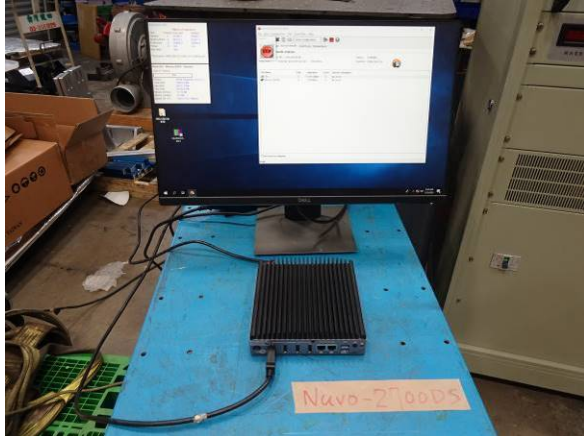


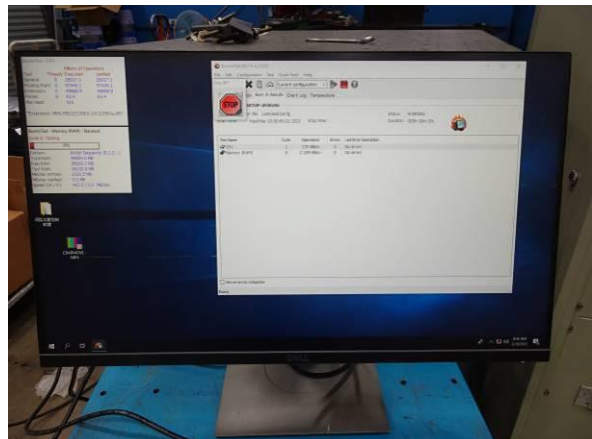
FIG.19.2 : Posterior check.

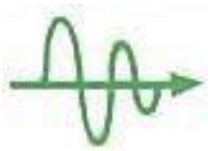


FIG.19.3 : Posterior check.



FIG.19.4 : Posterior check.





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II 、 Test Description

1. Date of Test

This test was performed on MAR 10, 2021

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-1000VH	1099	2021/02/04	2022/02/03
Accelerometer	PCB	J352C34	146403		

Calibration and Traceability to Vibration Source Technology CO., LTD.
Vibration Calibration Laboratory (TAF 2465)
(Calibration Report No.: VS-CV-100204-01)

Specimen	Manufacturer	Model	Serial NO.	Calibration Date	Validity Date
Electrodynamics Type Vibration Tester	Vibration Source Technology CO., LTD	VS-1000V	T0801	2020/12/28	2021/12/27
Accelerometer	PCB	353B34	LW225254		

Calibration and Traceability to Vibration Source Technology CO., LTD.
Vibration Calibration Laboratory (TAF 2465)
(Calibration Report No.: VS-CV-091228-01)

III 、 Reference

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

VIBRATION SOURCE TECHNOLOGY CO., LTD.

The End.