



矽英科技股份有限公司 可靠度實驗室

**Gtti RA Testing Service Laboratory**

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## Reliability Test Report

**Ser. No. :** A113081902

**Company :** Vecow Co.,Ltd

**Address :** 3F,No.10,Jiankng Rd.,Zhonghe Dist.,New Taipei City 23586,Taiwan

**Test Sample Receive Date:** 08/12/2024

**Date Started :** 08/12/2024

**Date Finished :** 08/12/2024

**Lab. Environment :** Temp : 25 °C ± 5 °C ; Humidity : 40 %R.H. to 70 %R.H.

### Lab. Accreditation and Certificate:

TAF: Certificate # L1043-240703 (accredited under ISO/IEC 17025: 2017; CNS 17025:2018))

IECQ: Certificate # 20004039ITL (accredited under ISO/IEC 17025: 2017)

### Remark:

- 1.This report will be invalid if used in part or altered in any way.
- 2.This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
- 3.The tested specimen(S) will only be preserved for thirty days from the date issued if not collected by the applicant.
- 4.No sampling in Gtti Lab. (Sampling to be done by Applicant via related Standard.)
- 5.Test report be done base real sample test result. Gtti Lab is not responsible for samples pre- or post- treatment neither usage of test report.
- 6.This Test Report is not responsible for Statement of Conformity.

	Name	Signature	Date
Testing Engineer	Ken Fan	<i>Ken Fan</i>	08/19/2024
Approval Signatory	Jason Chou	<i>Jason Chou</i>	08/19/2024
Laboratory Head	Lillian Chan	<i>Lillian Chan</i>	08/19/2024

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## **1. Random Vibration Test**

### **A. Test Specification and / or standard :**

MIL-STD-810H, Method 514.8 19-2019

### **B. Test Sample and Quantity :**

Part Name:	Edge AI Computing System
Model	EAC-6200
Series Model	EAC-6000 Series, EAC-6XXXXXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing purpose)
SoM	NVIDIA® Jetson Orin NX 16GB Module
CPU :	8-core Cortex-A78AE Armv8.2 (64-bit) CPU
GPU :	1024-core Ampere™ GPU with 32 Tensor Cores
RAM :	16 GB 128-bit LPDDR5 DRAM
M.2 :	Innodisk 2TB M.2 (P80) 4TE3, M Key (Industrial, W/T Grade, -40°C ~ +85°C)
Quantity:	1

### **C. Testing Equipment :**

Vibsource VS-5000VH-101

Calibrate trace code : VS-CV-120330-02

### **D. Test Condition and procedure :**

Test Condition:

Mode: Operating

Vibration Axis: X,Y,Z

Single Axis Time: 1 hour

Total Time: 3 hours

Vertical		Transverse		Longitudinal	
Frequency, Hz	ASD, g <sup>2</sup> /Hz	Frequency, Hz	ASD, g <sup>2</sup> /Hz	Frequency, Hz	ASD, g <sup>2</sup> /Hz
5	0.015	5	0.00013	5	0.0065
40	0.015	10	0.00013	20	0.0065
500	0.00015	20	0.00065	120	0.0002
rms = 1.08 g		30	0.00065	121	0.003
		78	0.00002	200	0.003
		79	0.00019	240	0.0015
		120	0.00019	340	0.00003
		500	0.00001	500	0.00015
				rms = 0.21 g	

**Test Procedure:**

- (1) Check out samples.
- (2) Place the test samples on the vibration table in its orientation and configuration.
- (3) Set test conditions and start to test.
- (4) Finish testing, check out samples and prepare final report.

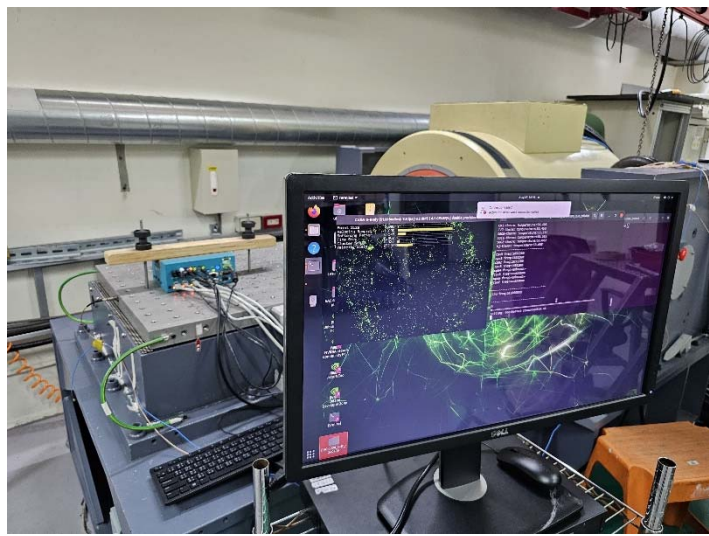
**E. Result :**

Appearance: Pass, No external physical damage

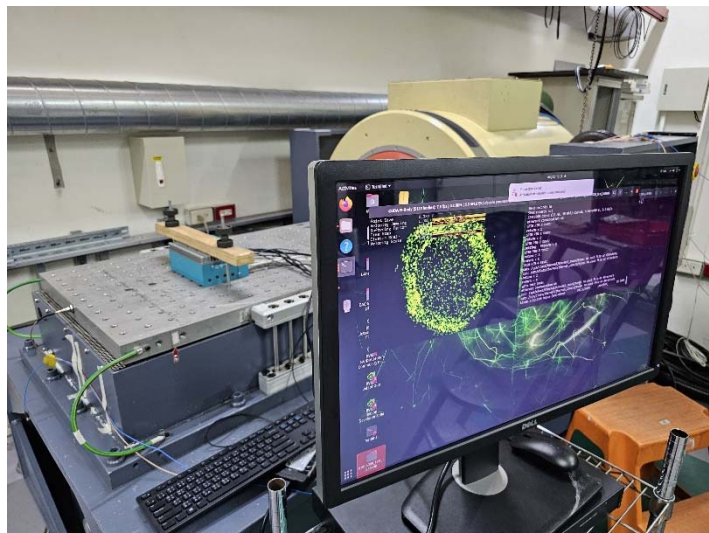
Function: Pass.

**F. Test Photo :**

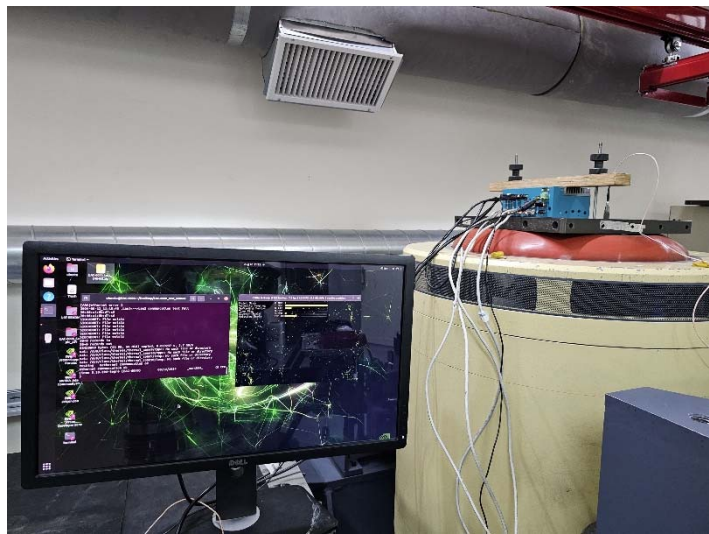
**Transverse  
X axis**



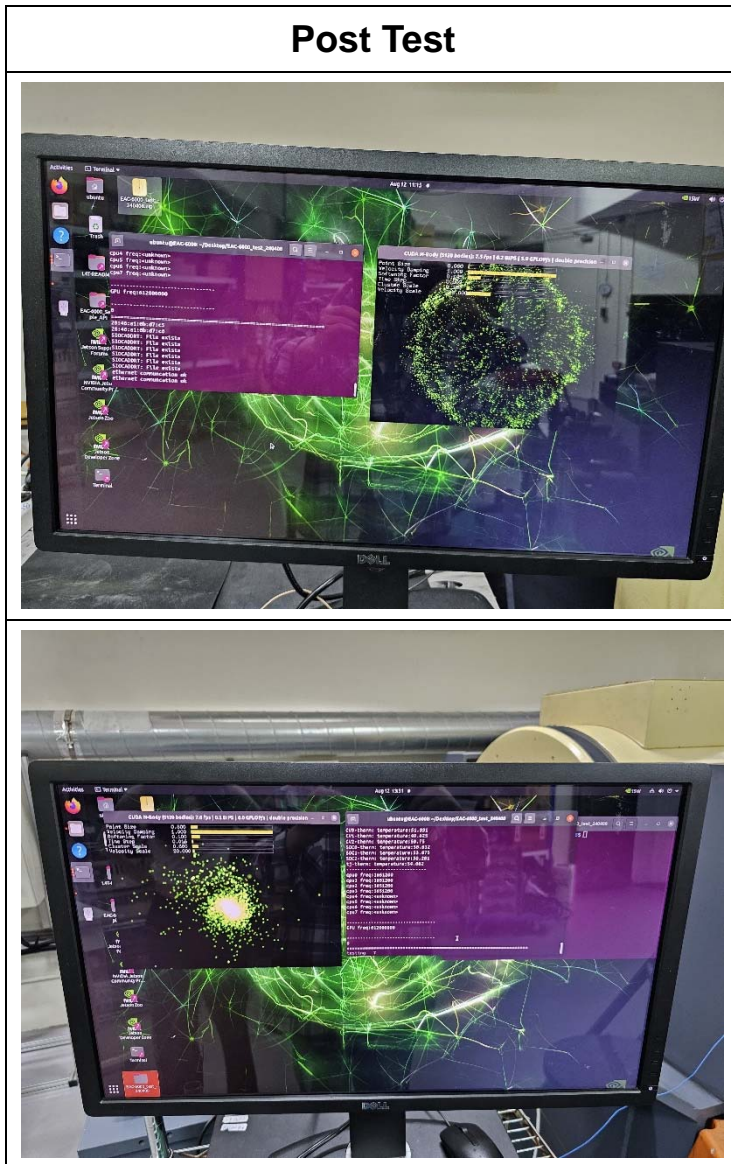
**Longitudinal  
Y axis**



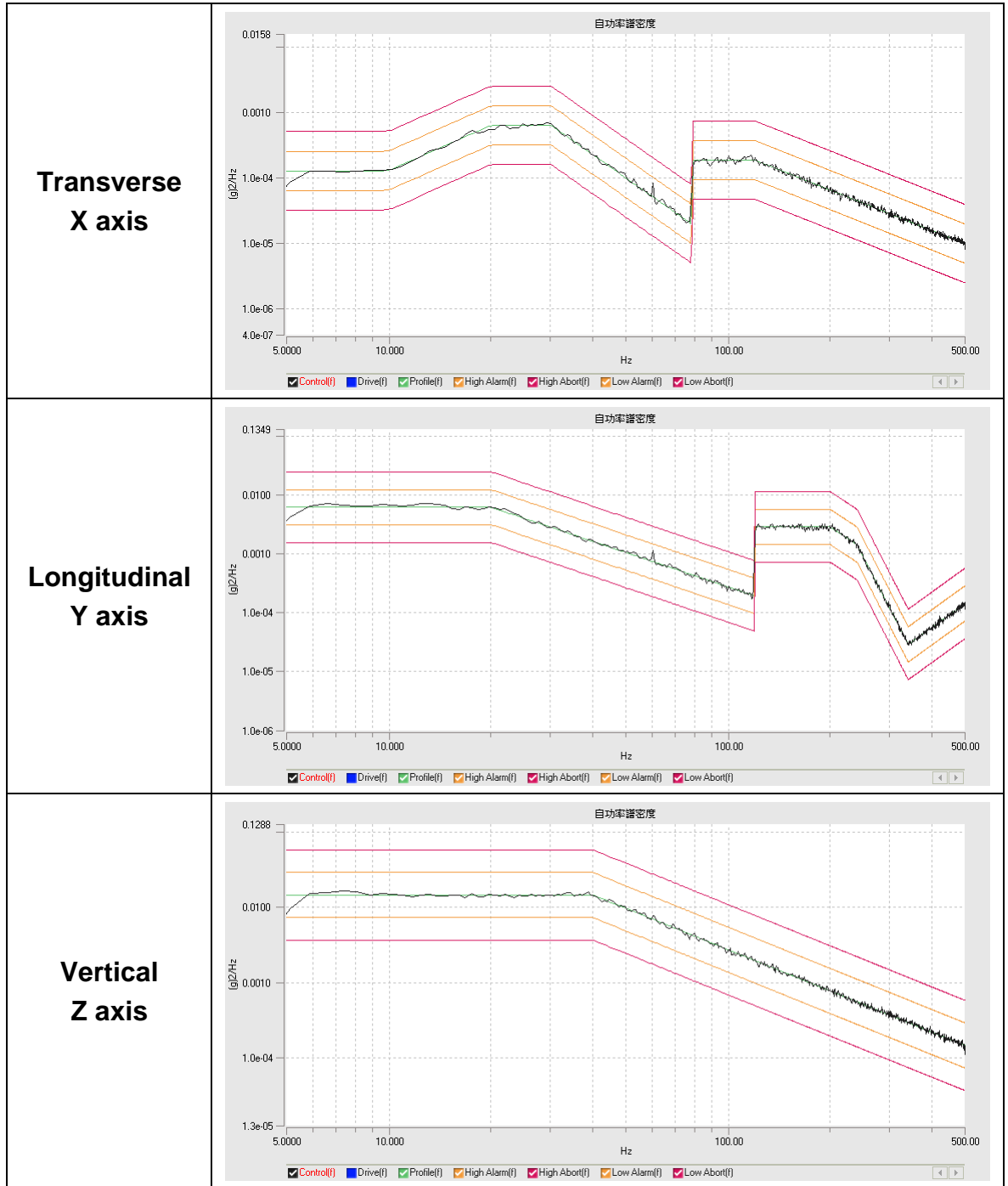
**Vertical  
Z axis**



## Post Test



## G. Test Profile :



## **2. Mechanical Shock Test**

### **A. Test Specification and / or standard :**

MIL-STD-810H Method 516.8 , Procedure I April 2014

### **B. Test Sample and Quantity :**

Part Name:	Edge AI Computing System
Model	EAC-6200
Series Model	EAC-6000 Series, EAC-6XXXXXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing purpose)
SoM	NVIDIA® Jetson Orin NX 16GB Module
CPU :	8-core Cortex-A78AE Armv8.2 (64-bit) CPU
GPU :	1024-core Ampere™ GPU with 32 Tensor Cores
RAM :	16 GB 128-bit LPDDR5 DRAM
M.2 :	Innodisk 2TB M.2 (P80) 4TE3, M Key (Industrial, W/T Grade, -40°C ~ +85°C)
Quantity:	1

### **C. Testing Equipment :**

Vibsource VS-5000VH-101

Calibrate trace code : VS-CV-120330-02

### **D. Test Condition and procedure :**

Test Condition:

Mode: Operating

Waveform: Final Peak Sawtooth Wave

Acceleration: 20 g

Duration Time: 11 ms

Vibration Axial: 3 Axis , 6 Faces

Shock Times: 3 time

Total Time: 18 times

Test Procedure:

- (1) Check out samples.
- (2) Place the test samples on the shock table in its orientation and configuration.
- (3) Set test conditions and start to test.
- (4) Finish testing, check out samples and prepare final report.

### **E. Result :**

Appearance: Pass, No external physical damage





Golden-Tech

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Report Completion/Modify date : 08/19/2024

Report No. : A113081902

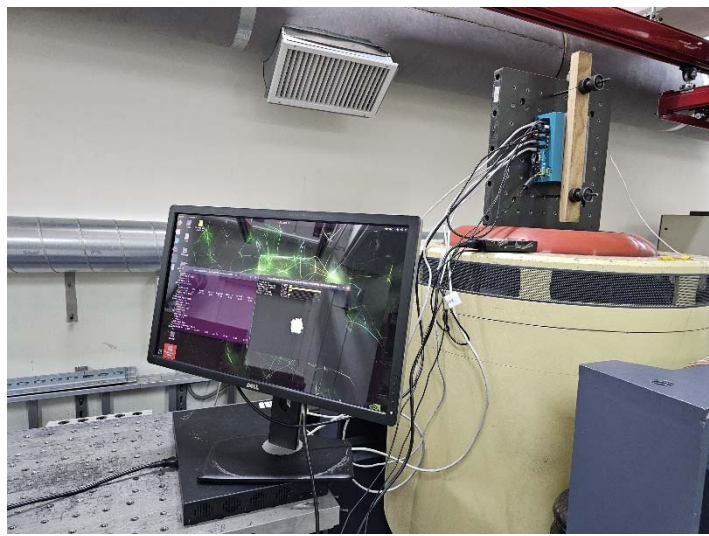
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Function: Pass.

**F. Test Photo :**

**Transverse  
X +/- axis**



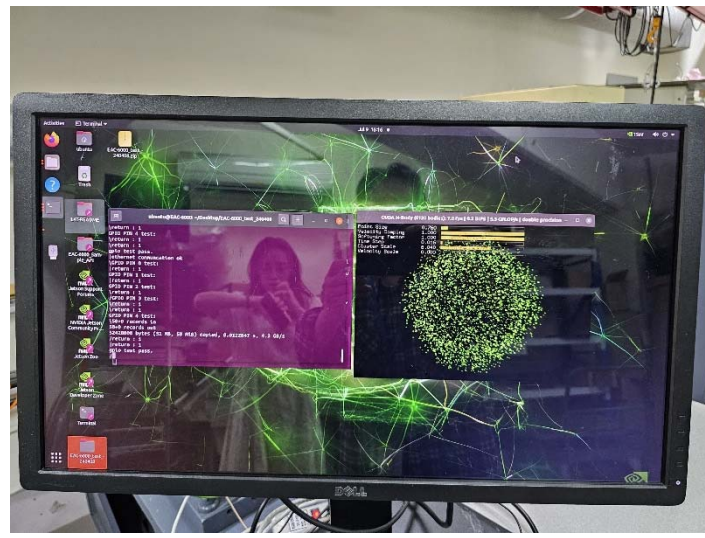
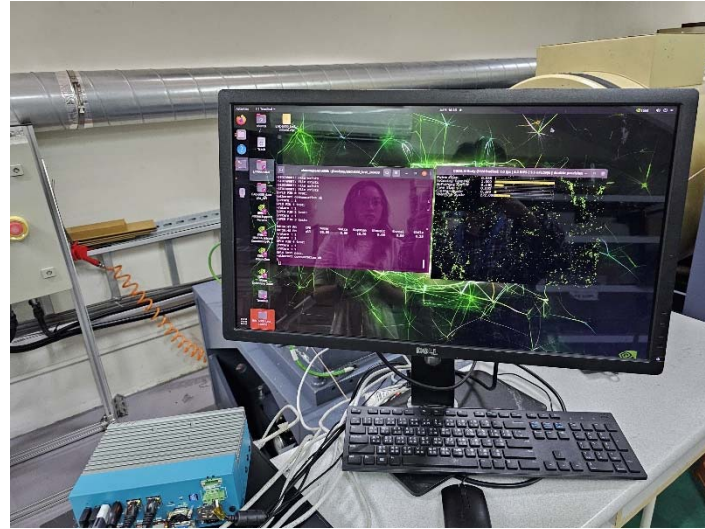
**Longitudinal  
Y +/- axis**



**Vertical  
Z +/- axis**



## Post Test



**G. Test Profile :**

