
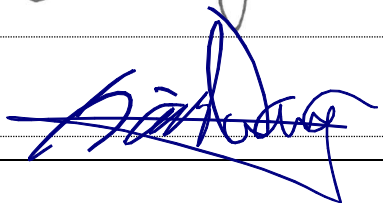


TEST REPORT Environmental Testing MIL-STD-810H: 2019, Method 514.8, Procedure I – General Vibration MIL-STD-810H: 2019, Method 516.8, Procedure I – Functional Shock	
Report Number	2506011
Date of issue	2025/07/07
Total number of pages	11
Tested by (name, function, signature)	Ellis Yu / Engineer
Approved by (name, function, signature).....	David Wang / Reviewer
 	
Testing Laboratory	
Name	Universal Certification Technology Co. Ltd.
Address	13F-5, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan.
Test Location	Same above
Applicant	
Name	Vecow Co., Ltd.
Address	3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan
Test item description	
Product name	VTS-1200GU
Trade mark(s)	Vecow
Model /Type reference	VTS-1000 Series, VTS-1XXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z or blank for marketing purpose)
Rating	DC Power from Power adaptor
Test specification	
Test Required:	<input checked="" type="checkbox"/> MIL-STD-810H: 2019, Method 514.8, Procedure I – General Vibration, Table 514.8C-I Category 4 / Common carrier and client's request <input checked="" type="checkbox"/> MIL-STD-810H: 2019, Method 516.8, Procedure I – Functional Shock and client's request
Test Result	No visible Damage and Functional check Normal

Testing :

Dates of receipt of test item : 2025-05-22

Date(s) of performance of tests : 2025-06-17~2025-06-18

General product information and other remarks :

1. Test sample :

Complete enclosure.

Individually section of enclosure (see below test method)

2. During test the EUT was operating.

3. The test sample was a pre-production sample without serial number

4. Dimension of test object : 150 mm x 150 mm x 70 mm (5.9" x 5.9" x 2.75")

5. Weight of test object : 1.7KG (3.74 lb)

6. Interior Parts:

CPU:Quad-core Arm Cortex-A53 MPCore™ up to 1.5 GHz

Summary of compliance with standard:

We have tested the submitted sample(s) as requested and the following results were obtained :

Test Required : (According to client's test specification , please see following sheets in detail.)

MIL-STD-810H: 2019, Method 514.8, Procedure I – General Vibration, Table 514.8C-I Category 4 – Common carrier and client's request

MIL-STD-810H: 2019, Method 516.8, Procedure I – Functional Shock and client's request

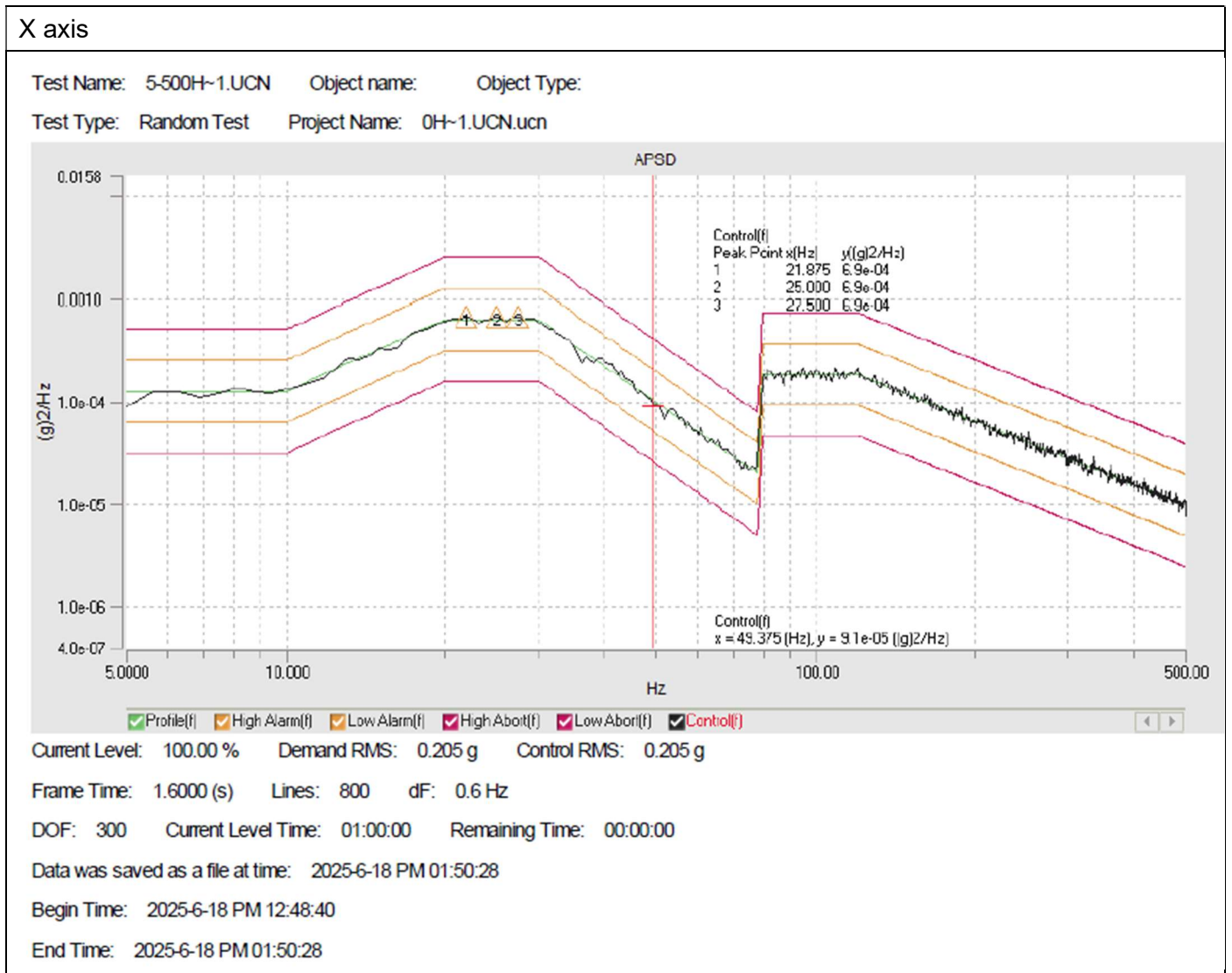
Test Results :

- Please see attached Sheets

1. Vibration - operation

Test Equipment :							
Name		Brand		Model		Serial No.	
Vibration Tester		Vibration Source		ZVS-600VH-51		E113006	
Controller		Vibration Source		VST-9008		395352176	
Test Laboratory Environment Condition :							
Temperature (°C)		Relative humidity (%)		Air pressure (kPa)			
15 ~ 35		25 ~ 75		86 ~ 106			
Test Location :							
13F-5, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan.							
Test Method / Specification :							
MIL-STD-810H: 2019, Method 514.8, Procedure I – General Vibration, Table 514.8C-I Category 4							
Sample Condition: operation							
Wave form: Random							
Frequency: 5-500Hz- Continued (Test Spectrums as shown in the following sheet in detail)							
Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis			
Frequency (Hz)	ASD(g ² /Hz)	Frequency (Hz)	ASD(g ² /Hz)	Frequency (Hz)	ASD(g ² /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		
		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		
→Equivalent to 1.08 Grms		→Equivalent to 0.21 Grms		→Equivalent to 0.76 Grms			
Direction : X, Y, Z axis (See photo 1 ~ 3)							
Duration : 1 hour/ axis							
Test Procedure:							
<ul style="list-style-type: none"> - Check the samples' appearance before the test. - Install the samples on the testing table and set up testing condition. - After testing, take off samples from table and put them in the storage area. - Observe the samples and record for any visible change after testing. 							
Summary:							
<ul style="list-style-type: none"> - No visible damage was found on sample appearance after the test. - Sample photo after the test: 							

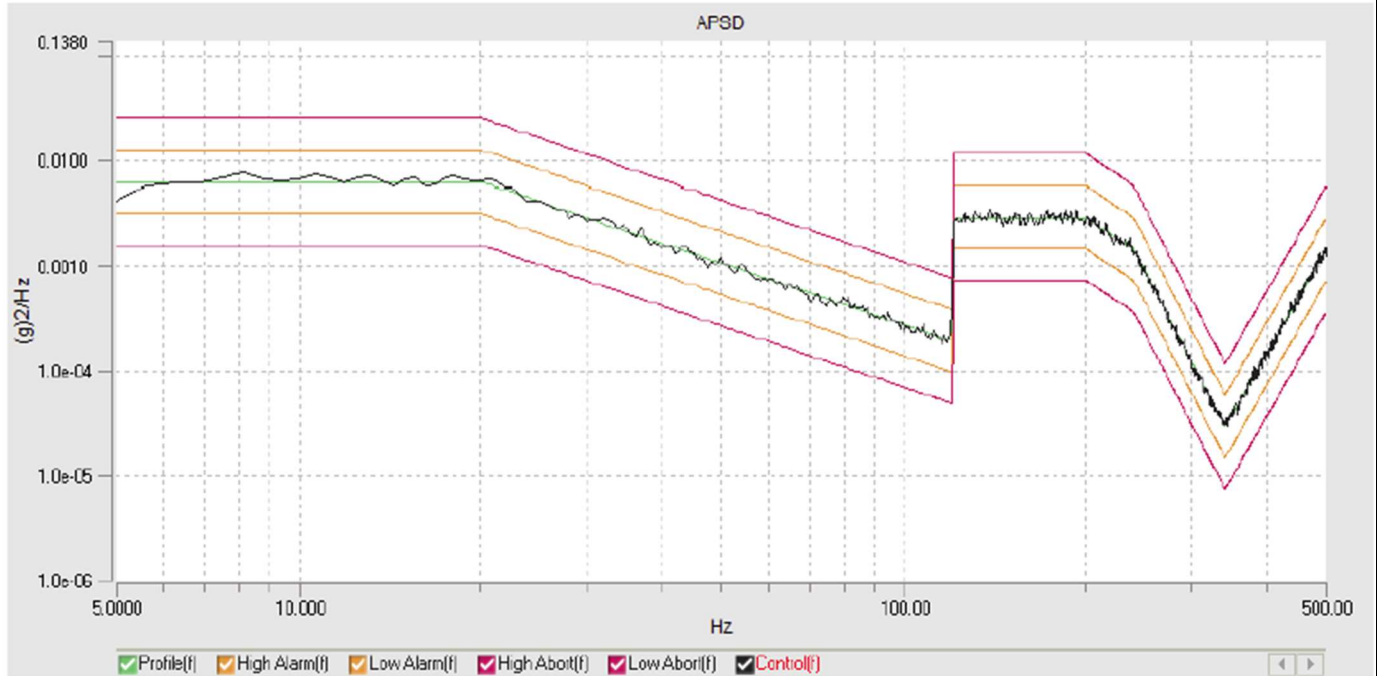
Test profile:



Y axis

Test Name: 5-500H-1.UCN Object name: Object Type:

Test Type: Random Test Project Name: 0H-1.UCN.ucn



Current Level: 100.00 % Demand RMS: 0.796 g Control RMS: 0.797 g

Frame Time: 1.6000 (s) Lines: 800 dF: 0.6 Hz

DOF: 300 Current Level Time: 01:00:00 Remaining Time: 00:00:00

Data was saved as a file at time: 2025-6-18 PM 12:09:16

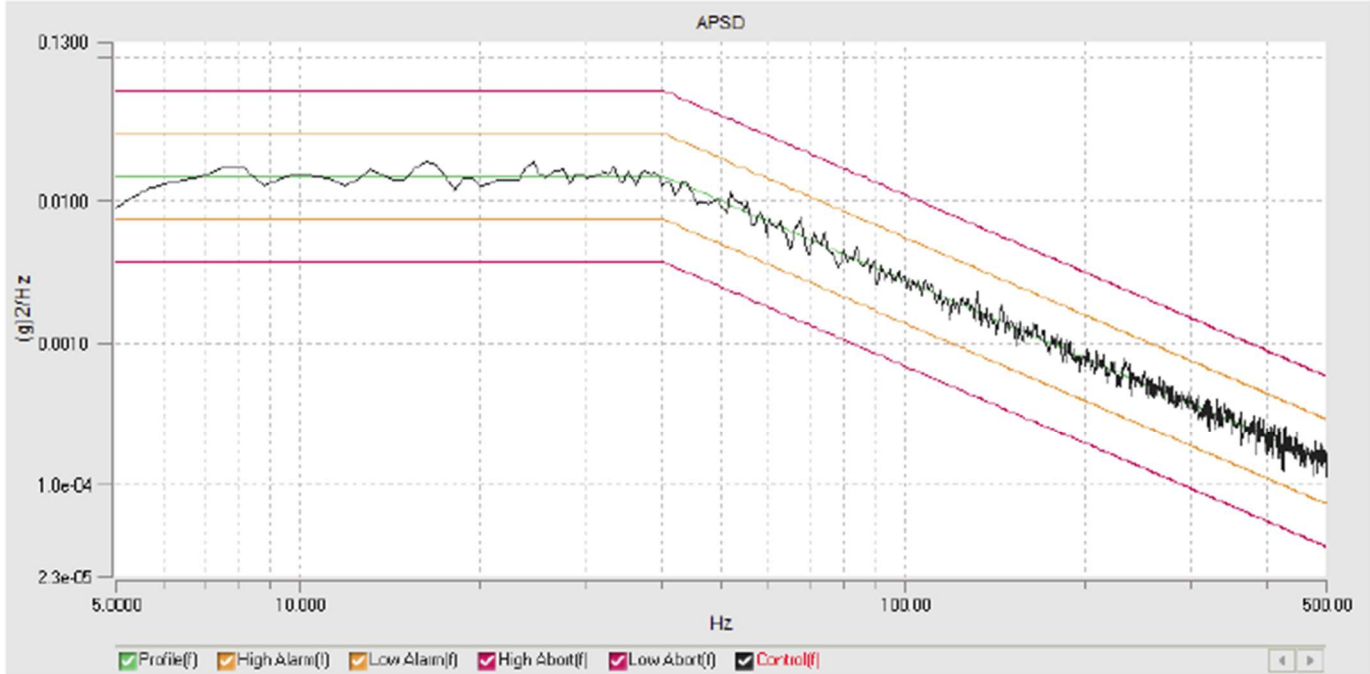
Begin Time: 2025-6-18 AM 11:07:30

End Time: 2025-6-18 PM 12:09:16

Z axis

Test Name: 5-500H~1.UCN Object name: Object Type:

Test Type: Random Test Project Name: 0H~1.UCN.ucn



Current Level: 100.00 % Demand RMS: 1.078 g Control RMS: 1.072 g

Frame Time: 1.6000 (s) Lines: 800 dF: 0.6 Hz

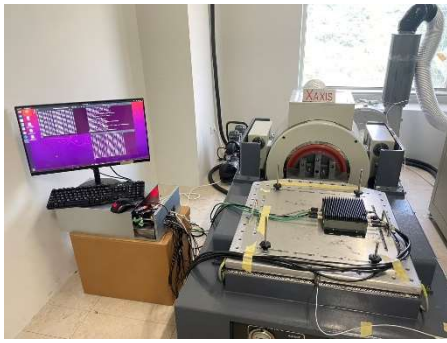
DOF: 120 Current Level Time: 01:00:00 Remaining Time: 00:00:00

Data was saved as a file at time: 2025-6-17 PM 08:21:38

Begin Time: 2025-6-17 PM 07:19:48

End Time: 2025-6-17 PM 08:21:38

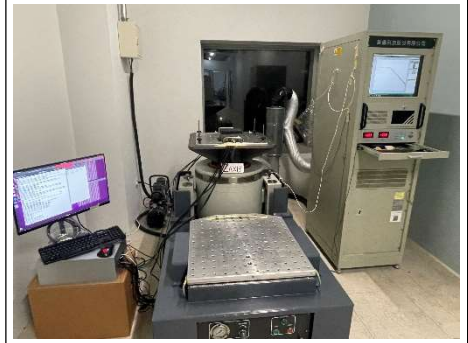
Test photos:



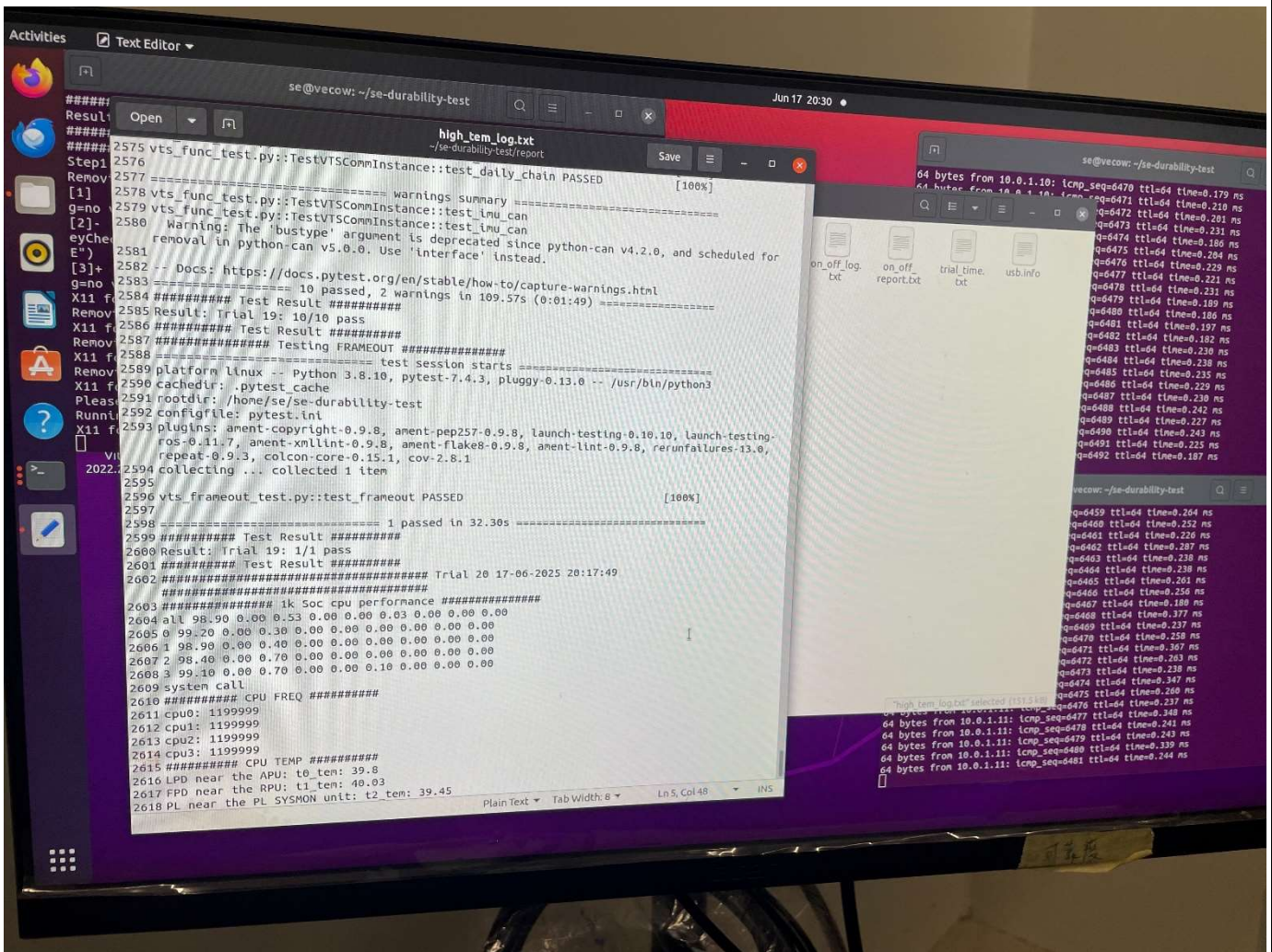
1. X axis



2. Y axis



3. Z axis



Functional Check

2. Operating Mechanical Shock Test

Test Equipment :			
Name	Brand	Model	Serial No.
Vibration Tester	Vibration Source	ZVS-600VH-51	E113006
Controller	Vibration Source	VST-9008	395352176
Test Laboratory Environment Condition :			
Temperature (°C)	Relative humidity (%)	Air pressure (kPa)	
15 ~ 35	25 ~ 75	86 ~ 106	
Test Location :			
13F-5, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan.			
Test Method / Specification :			
Shock test –MIL-STD-810H: 2019, Method 516.8, Procedure I – Functional Shock Sample Condition: operation Waveform : Final Peak Sawtooth Wave Acceleration : 20G Pulse duration : 11 ms Shock direction : 6 faces (±X, ±Y, ±Z axes, See photo 4~6) No of Shock : 3 shock / axis (Total 18 shocks)			
Test Procedure:			
<ul style="list-style-type: none"> - Check the samples' appearance before the test. - Install the samples on the testing table and perform "vtc_func_test" - After testing, take off samples from table and put them in the storage area. - Observe the samples and record for any visible change after testing. 			
Summary:			
<ul style="list-style-type: none"> - No visible damage was found on sample appearance after the test. - Sample photo after the test: 			

Test profile:



Test photos:



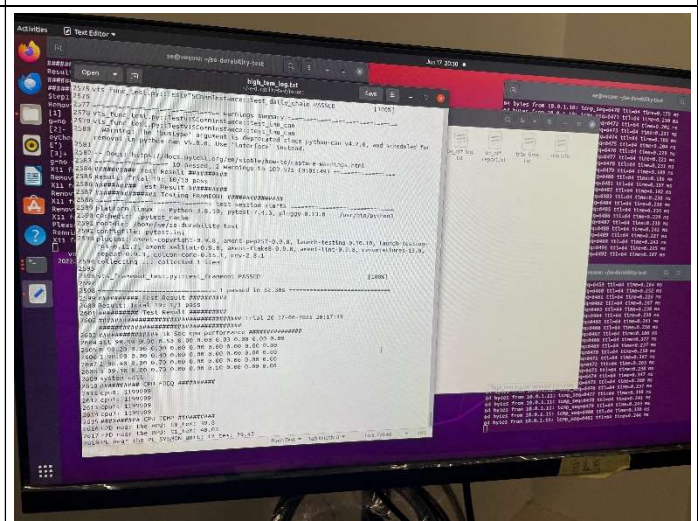
4. ±X axis



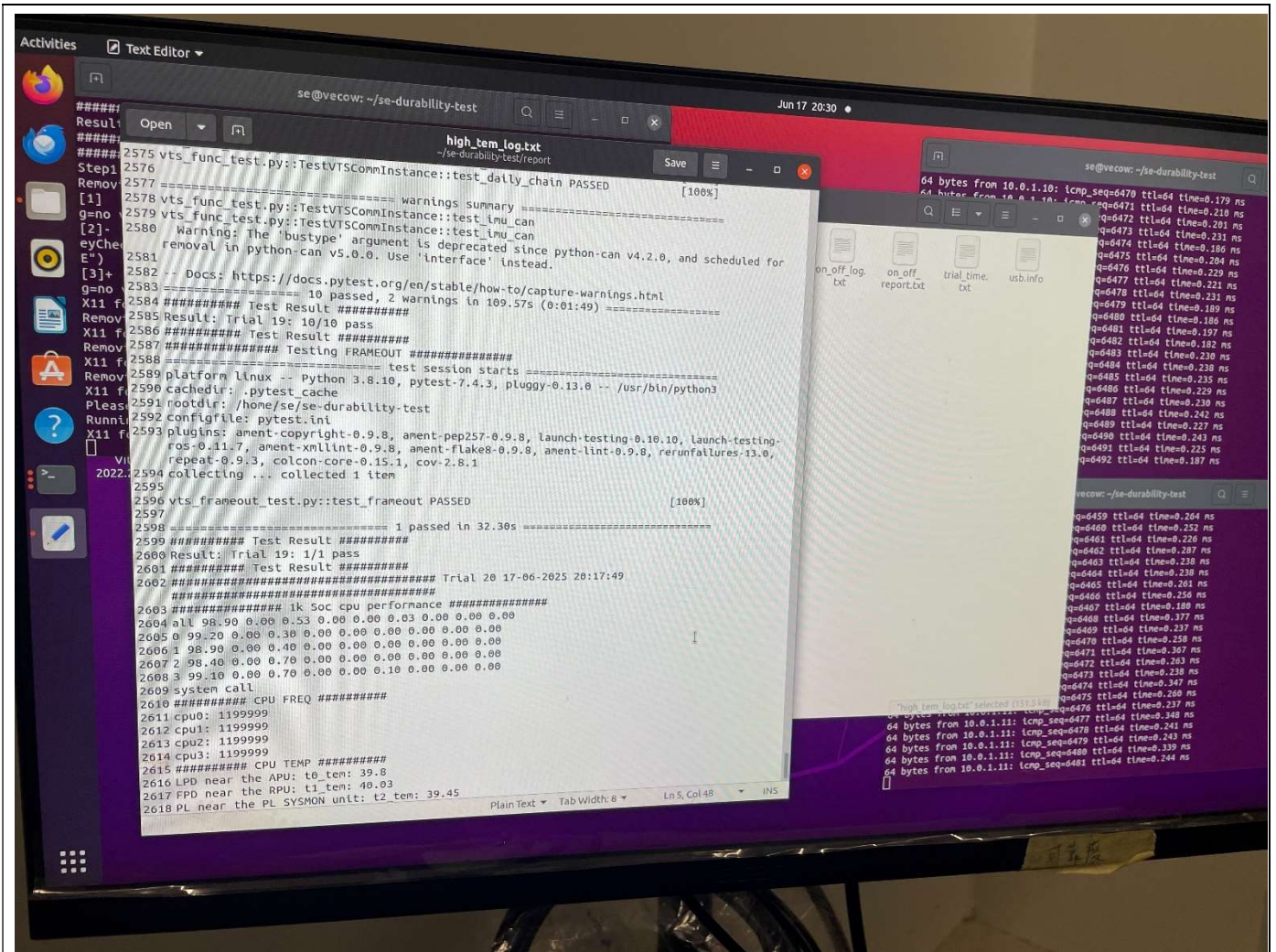
5. ±Y axis



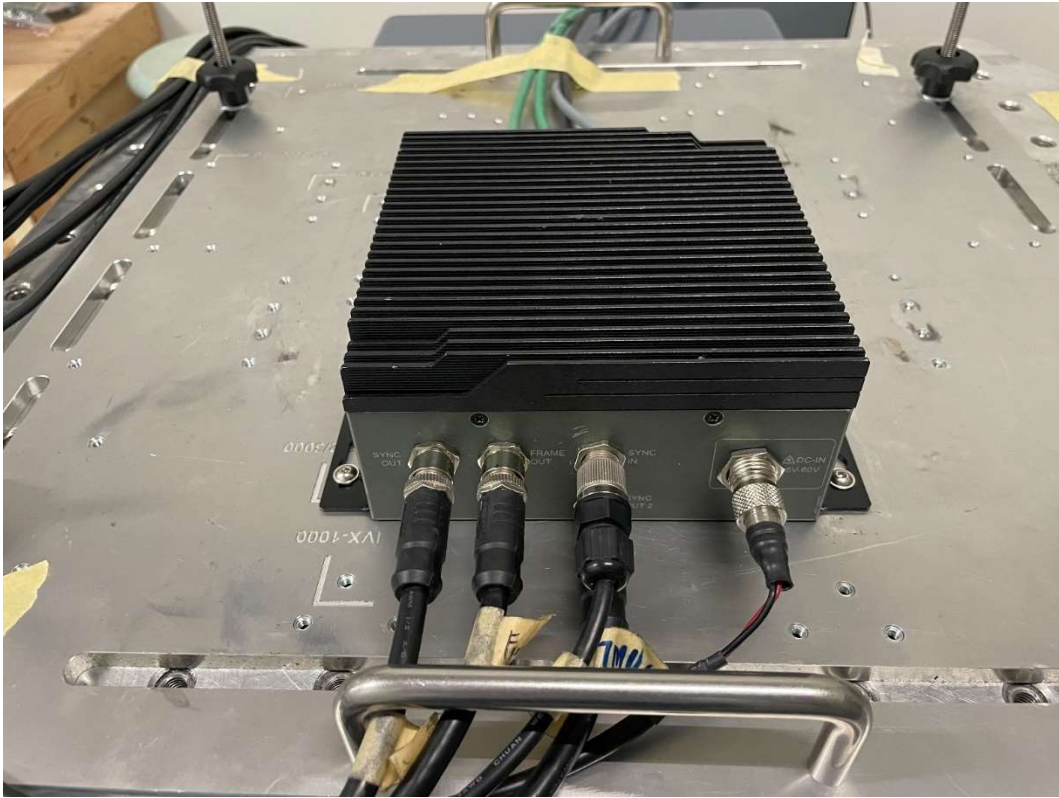
6. ±Z axis



Function check



Function check



EUT Photo



EUT Photo

----- The End of Test Report -----