

TEST REPORT

Report No.: HC30026A/2020

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Date: March 25, 2020

VECOW CO., LTD.
3F., NO.10, JIANKANG RD.,
ZHONGHE DIST., NEW TAIPEI CITY,
TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: RCX-1000 PEG
Style/ Item No.: RCX-1430FR-RTX2080Ti-PEG/ No.1
Quantity: Total 1 set
Testing Period: Mar. 20, 2020 to Mar. 23, 2020

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.)

1. Random Vibration Test--I
2. Mechanical Shock Test
3. Random Vibration Test--II

Test Results : -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of
SGS TAIWAN Ltd.



Allen Wang
Asst. Supervisor

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1. Random Vibration Test--I:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529
Vibration Test System	Vibration Tester	IMV	J260/SA7M
Controller	Controller	IMV	K2
Control Accelerometer	Control Accelerometer	PCB	353B34

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.31,33 Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810G w/ Change 1, Method 514.7, Procedure I, Table 514.7C-I Category 4 - Common carrier

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Wave form: Random

Frequency: (10 ~ 500) Hz (Test Spectrums as shown in the following sheets in detail)

Direction: X, Y, Z axes (see photo 3 ~ 5)

Duration: 1 hour/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test V8.1 Pro" could work normally or not.

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Test Method/ Specification--Continued:

Test Spectrums:

Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis	
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
⇨ equivalent to 1.04 G _{rms}		78	0.00002	121	0.00300
		79	0.00019	200	0.00300
		120	0.00019	240	0.00150
		500	0.00001	340	0.00003
		⇨ equivalent to 0.20 G _{rms}		500	0.00015
				⇨ equivalent to 0.74 G _{rms}	

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Specimen:

Style/Item No.: RCX-1430FR-RTX2080Ti-PEG/ No.1

Quantity: Total 1 set

Test Result:

Style/ Item No.	Check Item	Appearance check (Visual check)	Functional check
	RCX-1430FR-RTX2080Ti-PEG/ No.1		No visible damage

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2. Mechanical Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	121615

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810G w/ Change 1, Method 516.7, Procedure I - Functional Shock Test

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Pulse shape: Sawtooth

Acceleration: 20 g

Pulse duration: 11 ms

Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 6 ~ 11)

No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test V8.1 Pro" could work normally or not.

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Specimen:

Style/Item No.: RCX-1430FR-RTX2080Ti-PEG/ No.1

Quantity: Total 1 set

Test Result:

<div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	Appearance check (Visual check)	Functional check
RCX-1430FR-RTX2080Ti-PEG/ No.1	No visible damage	Normal

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3. Random Vibration Test--II:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529
Vibration Test System	Vibration Tester	IMV	J260/SA7M
Controller	Controller	IMV	K2
Control Accelerometer	Control Accelerometer	PCB	353B34

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.31,33 Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: IEC 60068-2-64, Edition 2.0: 2008

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (g^2 / Hz)	Right Slope (dB/Oct.)
5	—	0.018	0
500	0	0.018	—
⇨ equivalent to 3.0 G _{rms}			

Direction: X, Y, Z axes (see photo 3 ~ 5)

Duration: 30 minutes/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program“BurnIn Test V8.1 Pro” could work normally or not.

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Specimen:

Style/Item No.: RCX-1430FR-RTX2080Ti-PEG/ No.1

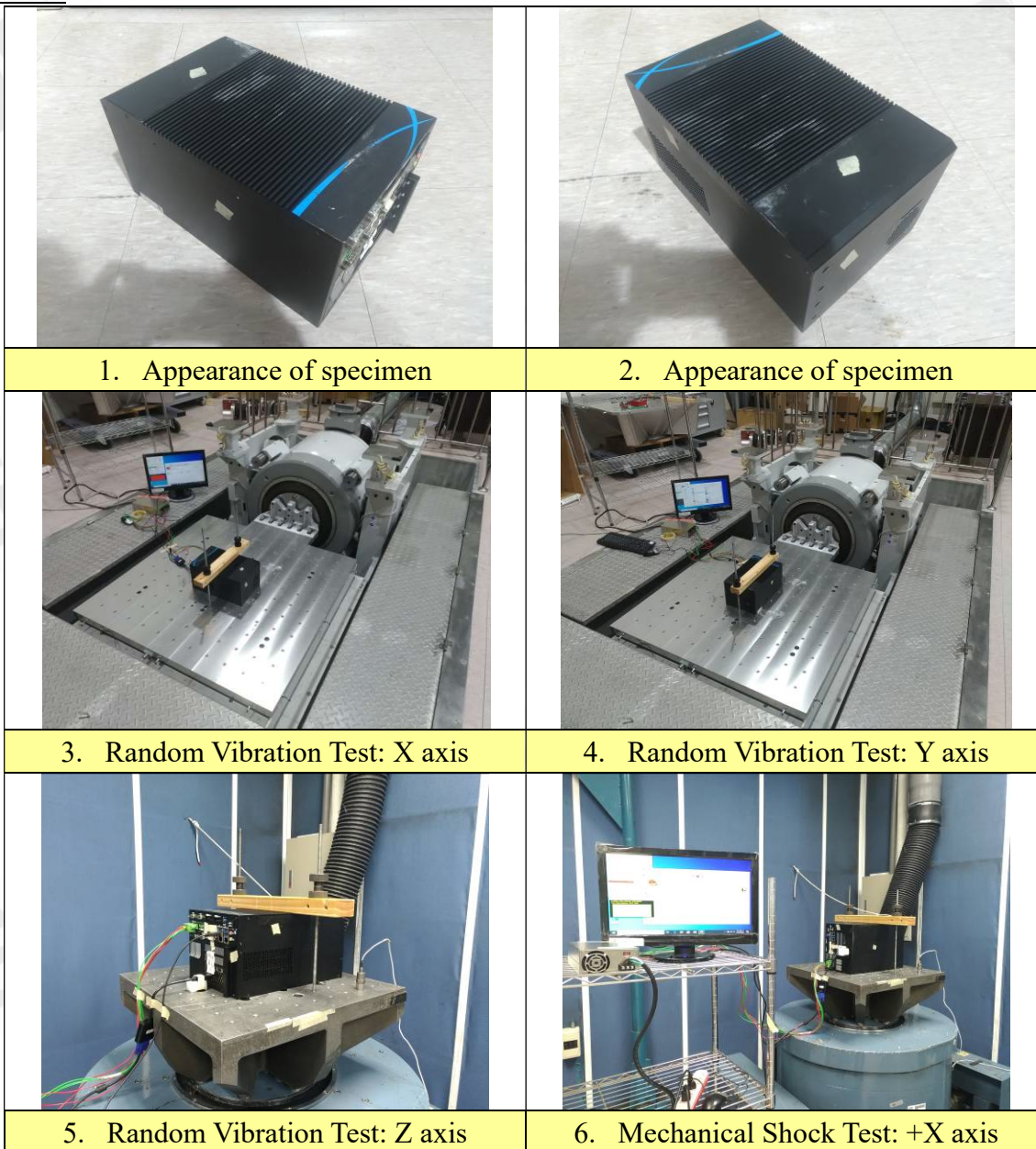
Quantity: Total 1 set

Test Result:

<div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	Appearance check (Visual check)	Functional check
RCX-1430FR-RTX2080Ti-PEG/ No.1	No visible damage	Normal

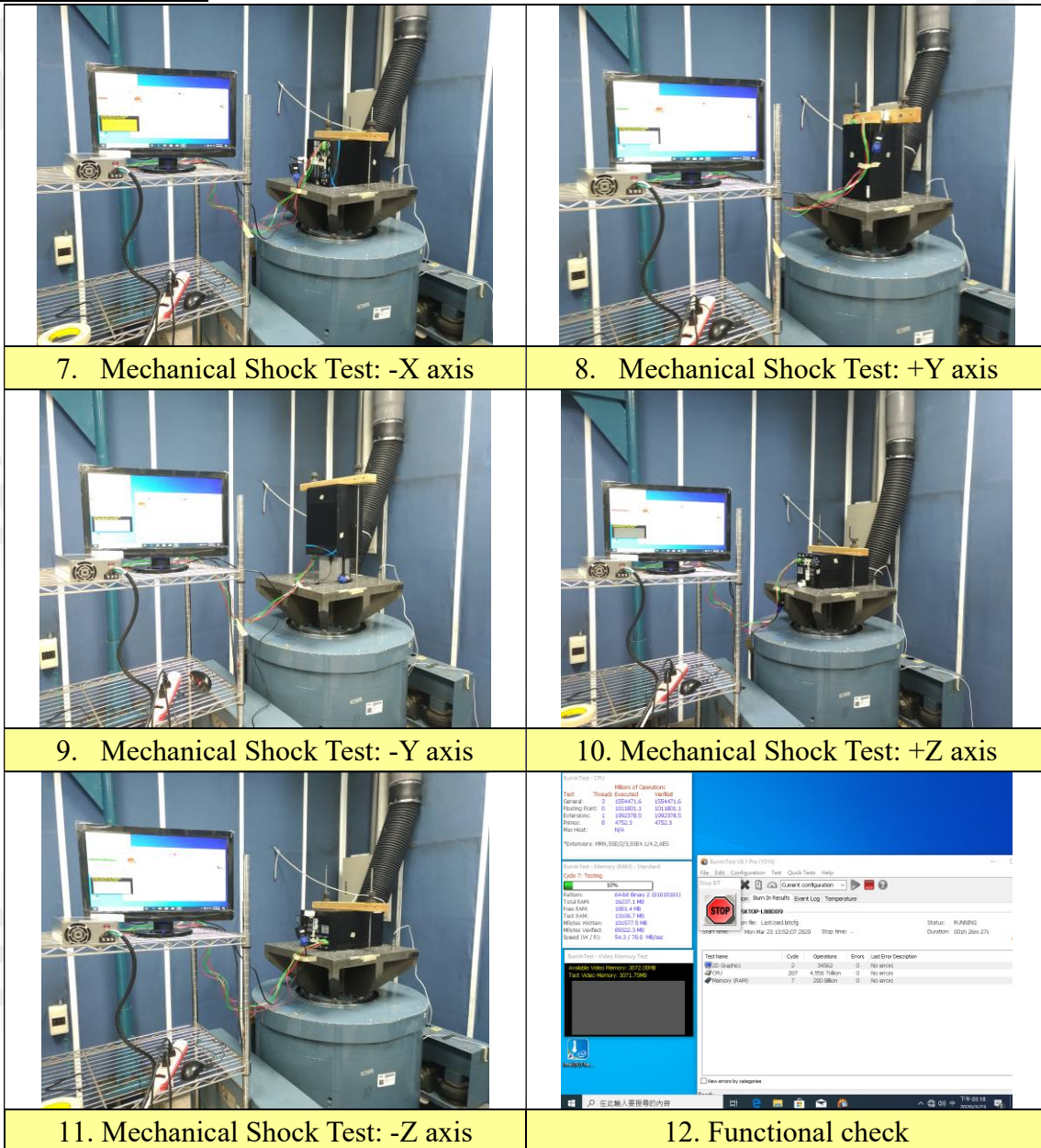
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Test Photos:



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Test Photos--Continued:



— — — The End of Test Report — — —

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