

# TEST REPORT

**Applicant:** Daten Tecnologia Ltda.  
**Address:** Rodovia Ilheus/Urucuca Km 3,5, Iguape – CEP: 45.658-335 – Ilhéus – BA  
–Brazil

**The following sample(s) was/were submitted and identified on behalf of the client as:**

Sample name: Notebook  
Model No.: Daten DCM4A-4  
Material: /  
Number of sample: 2pcs  
Sample Received: 2022-05-31  
Testing Period: 2022-05-31~2022-06-08

**Test item:** Vibration test 1、Vibration test 2  
**Test standard:** Refer to the standard MIL-STD-810H 2014 Method 514.8

**Test results:** Please refer to next page(s)

Wrote by:

Reviewed by:

Approved by:

Date: 2022-06-15

Authorized signatory:

Wetow Huang

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)

**Test item:****1. Vibration test 1****(1) Test equipment(s)**

Name	Model	Calibration validity period
Vibration test system	DC-1000-15/SV-0808	2022-01-17~2023-01-16

**(2) Environmental condition(s)**

Temperature: 23.2°C

Humidity: 52%RH

**(3) Test standard**

Refer to the standard MIL-STD-810H 2014 Method 514.8 Procedure I , Category 24(Minimum Integrity Test)

**(4) Test condition(s)**

1) Sample test status: no package, no electricity.

2) Vibration parameters:

Frequency (Hz)	Slope (dB/Oct)	PSD (g <sup>2</sup> /Hz)	Grms (g)	Axial	Duration
20	/	0.04	7.698	X/Y/Z axis	1h / axis
1000	-6	0.04			
2000	-6	/			

**(5) Criterion**

According to client's requirements:

1) Use manufacture functional test program to verify functional test and pass.

2) Mechanical no feature destroyed.

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)





Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)

**(6) Test result(s)**

Sample No.	Test result	Conclusion
220527043-007~008	After test, the sample use manufacture functional test program to verify functional test and pass, and the mechanical no feature destroyed.	Pass

**(7) Test photo(s)**

	
Before test-1	Before test-2 (Functional check)
	
Testing-1 (X) axis	Testing-2 (Y) axis

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)



Testing-3 (Z) axis



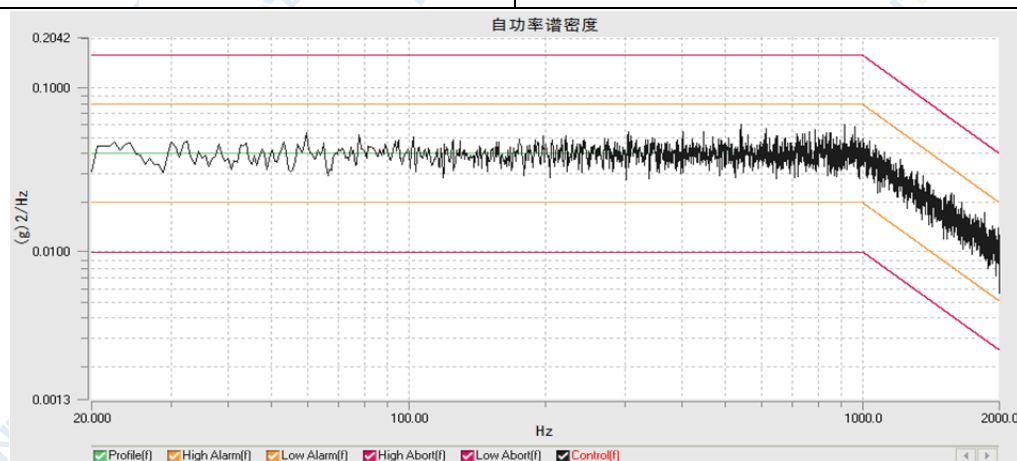
After test-1



After test-2 (Functional check)

Blank

Blank



Test curve (X) axis

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

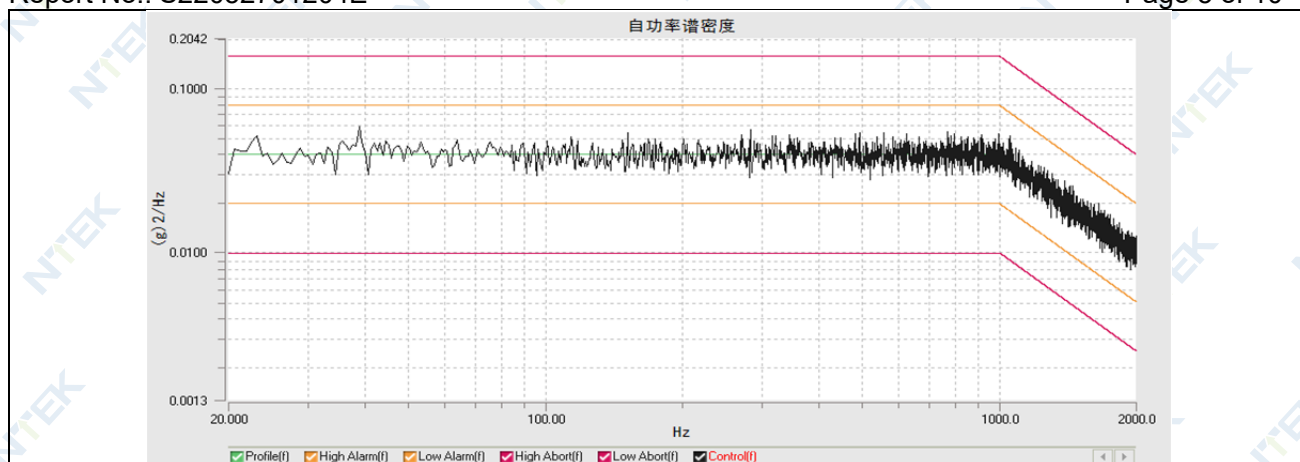
Building No. 30, Furong third road, Furong area, Xinqiao Street, Bao'an District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

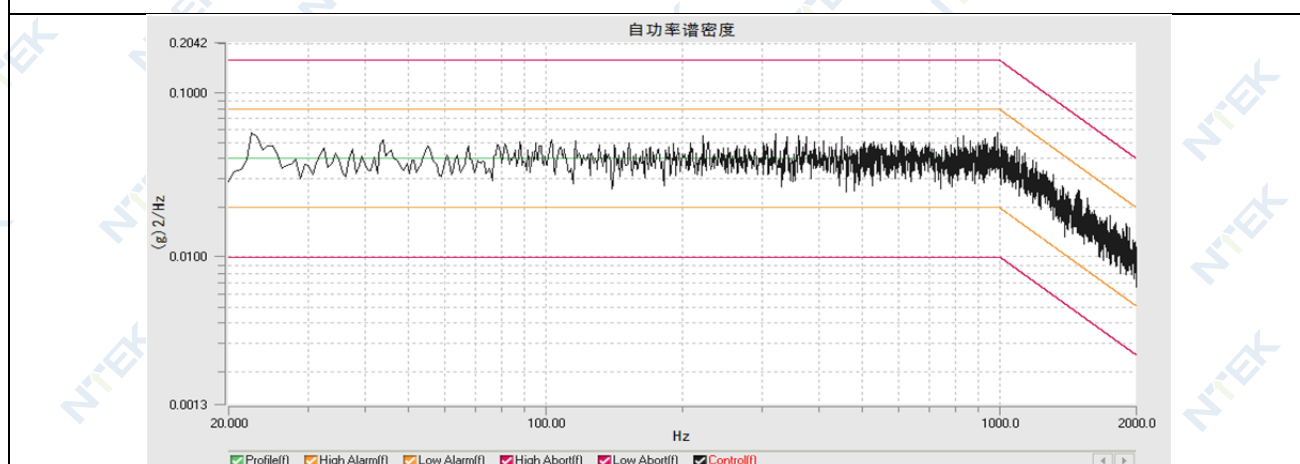
Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)





Test curve (Y) axis



Test curve (Z) axis

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)

## 2. Vibration test 2

### (1) Test equipment(s)

Name	Model	Calibration validity period
Vibration test system	DC-1000-15/SV-0808	2022-01-17~2023-01-16
Electric vibration test system	D-300-3	2022-01-17~2023-01-16

### (2) Environmental condition(s)

Temperature: 23.2°C

Humidity: 52%RH

### (3) Test standard

Refer to the standard MIL-STD-810H 2014 Method 514.8 Procedure I , Category 4 (Ground Vehicle).

### (4) Test condition(s)

1) Sample test status: unpacked, energized.

2) Vibration parameters:

Condition 1: X axis				
Frequency (Hz)	PSD ( $g^2/Hz$ )	Grms (g)	Axial	Duration
5	0.05000	1.22	X axis	1h
7	0.06500			
8	0.06500			
11	0.02200			
87	0.00306			
475	0.00108			
500	0.00046			

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)

Report No: 0220027-012012

Page 7

Condition 2: Y axis				
Frequency (Hz)	PSD (g <sup>2</sup> /Hz)	Grms (g)	Axial	Duration
5	0.05418	2.52	Y axis	1h
7	0.10000			
8	0.10000			
13	0.01400			
21	0.03780			
23	0.03780			
25	0.01700			
76	0.00310			
100	0.08000			
140	0.05354			
155	0.00551			
500	0.00456			
Condition 3: Z axis				
Frequency (Hz)	PSD (g <sup>2</sup> /Hz)	Grms (g)	Axial	Duration
5	0.20000	3.98	Z axis	1h
7	0.40000			
8	0.40000			
10	0.05090			
20	0.04000			
43	0.10036			
50	0.03079			
105	0.07500			
150	0.02964			
259	0.04636			
332	0.00970			
500	0.00537			

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)

## (5) Criterion





According to client's requirements:

- 1) Use manufacture functional test program to verify functional test and pass.
- 2) Mechanical no feature destroyed.

## (6) Test result(s)

Sample No.	Test result	Conclusion
220527043-007~008	After test, the sample use manufacture functional test program to verify functional test and pass, and the mechanical no feature destroyed.	Pass

## (7) Test photo(s)

	
Before test-1	Before test-2 (Functional check)
	
Testing-1 (X) axis	Testing-2 (Y) axis

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)





Testing-3 (Z) axis



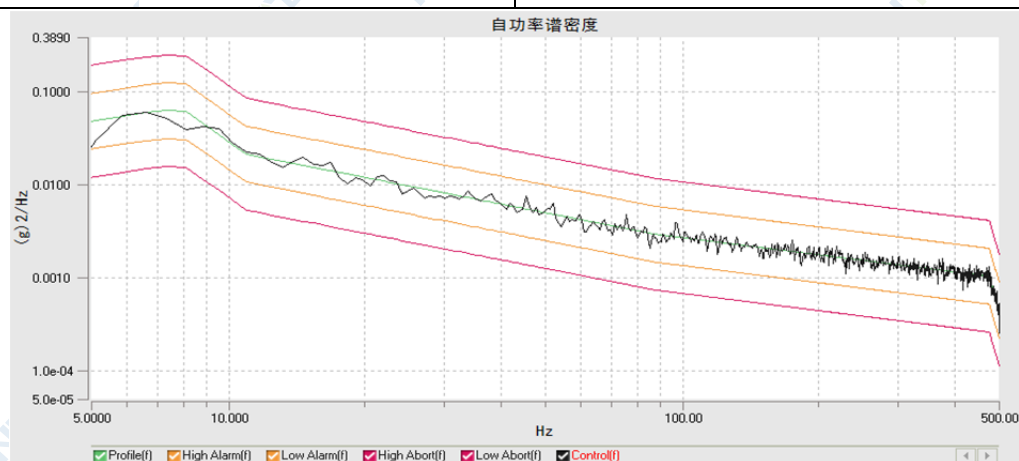
After test-1



After test-2 (Functional check)

Blank

Blank



Test curve (X) axis

Shenzhen NTEK Testing Technology Co., Ltd.

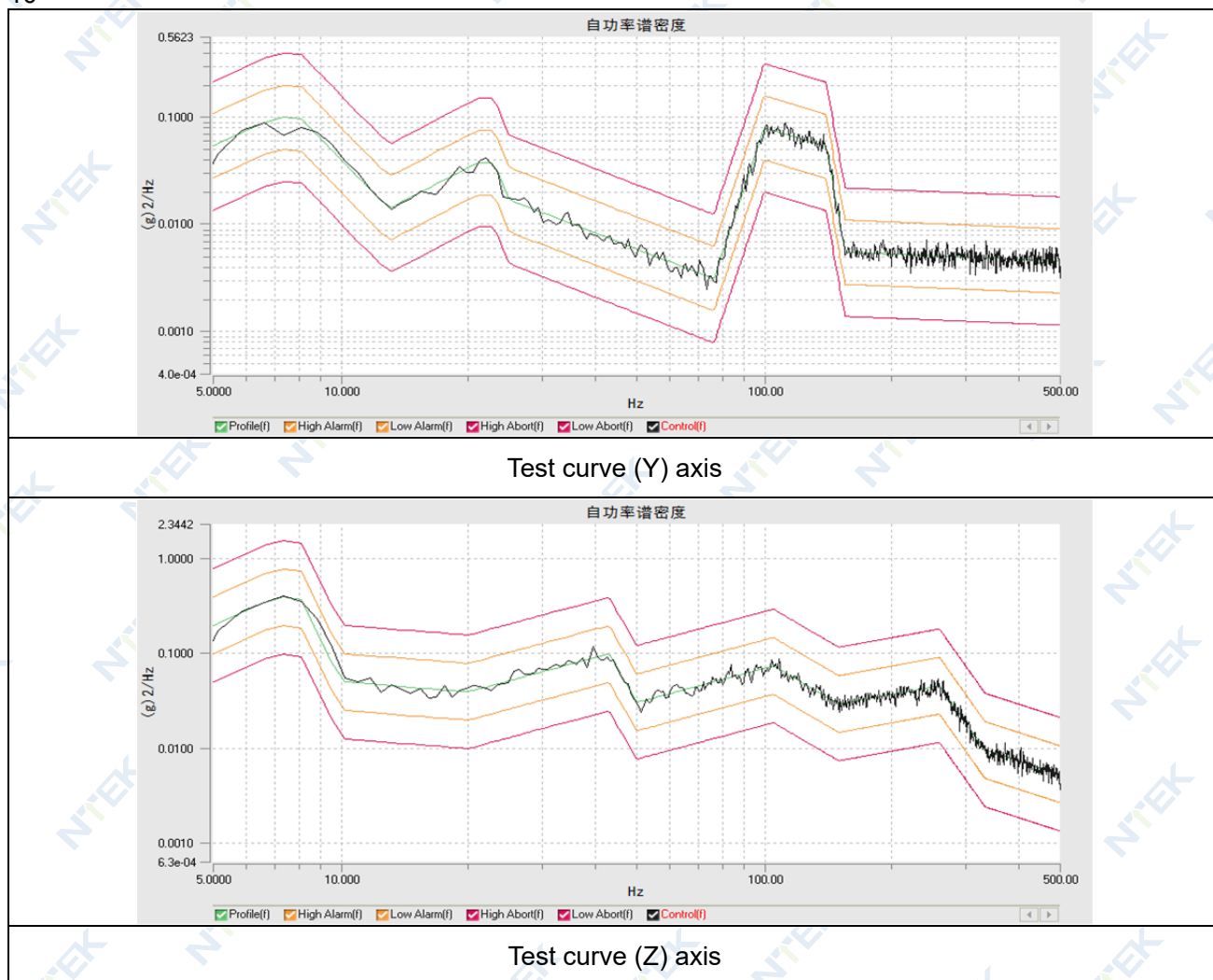
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)



\*\*\*\*End of Report\*\*\*\*

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full. The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Building No. 30, Furong third road, Furong area, Xinqiao Street, Baoan District, Shenzhen P.R. China. (Xinqiao Base)

Tel: (+86) 400-800-6106, 0755-2320 0050/2320 0090

Http: [www.ntek.org.cn](http://www.ntek.org.cn)

Complaint call: (+86)-0755-23218370. Complaint mailbox: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)