

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 1 of 28

Scan to see the report



NBIN2511003574PL01

Verification:

check.sgsonline.com.cn

CUSTOMER NAME: B&amp;W INTERNATIONAL GMBH

ADDRESS: JUNKENDIEK 5 49479 IBBENBUEREN GERMANY

Sample Name : OUTDOOR CASES

Product Specification : type 7800

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : 2025-11-10

Testing Period : 2025-11-10 ~ 2025-12-04

Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd Ningbo Branch.

July Zhang

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Standards Technical Services Co., Ltd.  
Ningbo Branch  
Inspection & Testing Services

1 No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 2 of 28

### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Humidity	MIL-STD-810H w/Change 1-2022 Method 507.6 Section 2.6.3(Procedure II)	Visible deformation, no visible cracking.	Pass
2	Low Temperature	MIL-STD-810H w/Change 1-2022 Method 502.7 Section 4.5.2(Procedure I)	No visual change	Pass
3	Drop Test	MIL-STD-810H w/Change 1-2022 Method 516.8 Section 4.6.5 (Procedure IV)	See result	Pass
4	High Temperature Test	MIL-STD-810H w/Change 1-2022 Method 501.7 Procedure I	See result	Pass
5	Loose Cargo Vibration Test	MIL-STD-810H w/Change 1-2022 Method 514.8 Section 2.2 (Category 5)	See result	Pass
6	Random Vibration Test	MIL-STD-810H w/Change 1-2022 Method 514.8 Section 2.1 (Category 4)	See result	Pass
7	Shock Test	MIL-STD-810H w/Change 1-2022 Method 516.8 Section 4.6.2.3 (Procedure I)	See result	Pass
8	Low Pressure(altitude)	MIL-STD-810H w/Change 1-2022 Method 500.6 Procedure I	No visual change	Pass
9	Thermal shock	MIL-STD-810H w/Change 1.2022 Method 503.7 Section 4.4.2.4 (Procedure I-D)& Client Requirements	See result	Pass
10	Immersion Test	MIL-STD-810H w/Change 1-2022 Method 512.6 Section 4.4.2 (Procedure I) and the client's requirements	See result	Pass

Note: Pass : Meet the requirements;

Fail : Does not meet the requirements;

/ : Not Apply to the judgment.

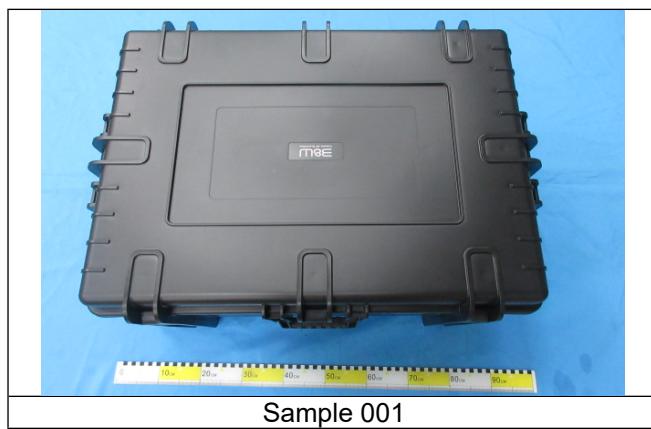
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT****No. : NBIN2511003574PL01\_EN****Date : 2025-12-04****Page: 3 of 28****Original Sample Photo:**

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 4 of 28

### 1. Test Item: Humidity

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 507.6 Section 2.6.3(Procedure II)

Test Condition:

Step 1: 30°C, 95%RH→60°C, 95%RH, 2h

Step 2: 60°C, 95%RH, 6h

Step 3: 60°C, 95%RH→30°C, 95%RH, 8h

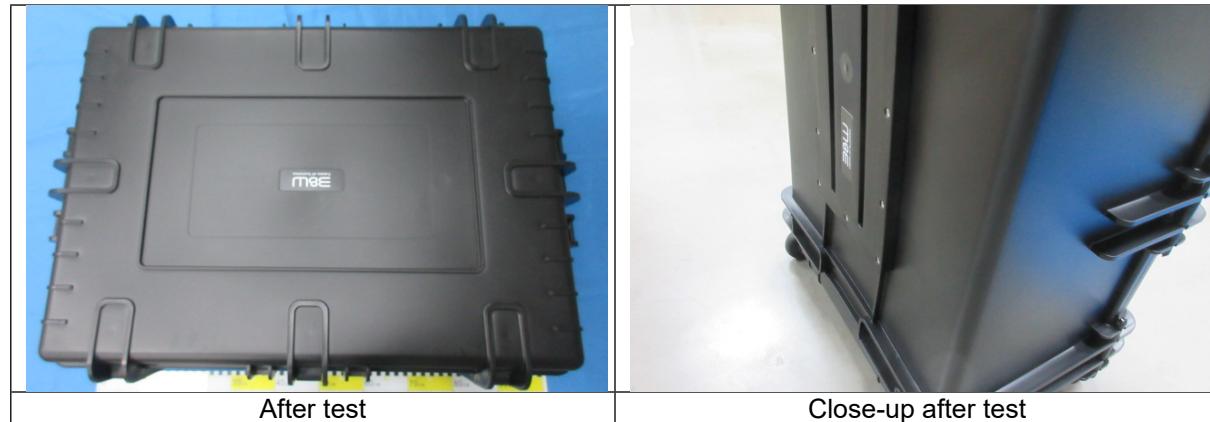
Step 4: 30°C, 95%RH, 8h

10 cycles, 1 cycle consists of Step 1 to Step 4.

Test Result:

Test Item	Result	Client's requirement	Conclusion
Humidity	Visible deformation, no visible cracking.	no cracking	Pass

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTC Ningbo Branch Technical Services Co., Ltd.  
Inspection & Testing Services

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 www.sgsgroup.com.cn  
PL (86-574) 89070238 sgs.china@sgs.com

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 5 of 28



Testing

## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
KSON Temperature Humidity Chamber	KAHE-411TBS	NBPL-A004	2025-03-27	2026-03-26

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 6 of 28

## 2. Test Item: Low Temperature

Sample Description: Black case

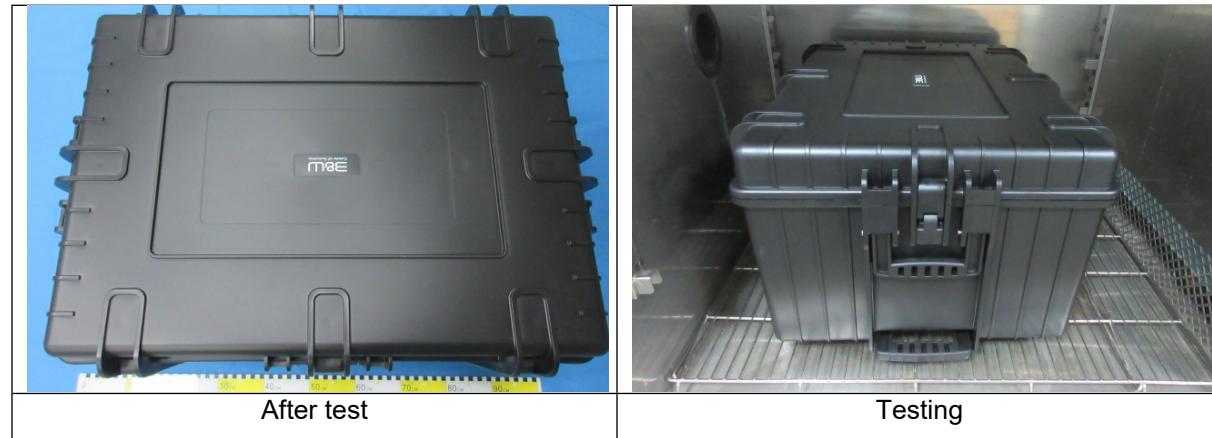
Test Method: MIL-STD-810H w/Change 1-2022 Method 502.7 Section 4.5.2(Procedure I)

Test Condition: -51°C, 72h

Test Result:

Test Item	Result	Client's requirement	Conclusion
Low Temperature	No visual change	No visual change	Pass

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
KSON Temperature Humidity Chamber	KTHG-715TBS	NBPL-A005	2025-03-25	2026-03-24

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTC Ningbo Branch Technical Services Co., Ltd.  
Inspection & Testing Services

| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 www.sgsgroup.com.cn  
PL (86-574) 89070238 sgs.china@sgs.com

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 7 of 28

### 3. Test Item: Drop Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 516.8 Section 4.6.5 (Procedure IV)

Test Condition:

Drop height: 76 cm

Drop plane: Steel plate

Drop times: Drop on each face, edge and corner; a total of 26 drops

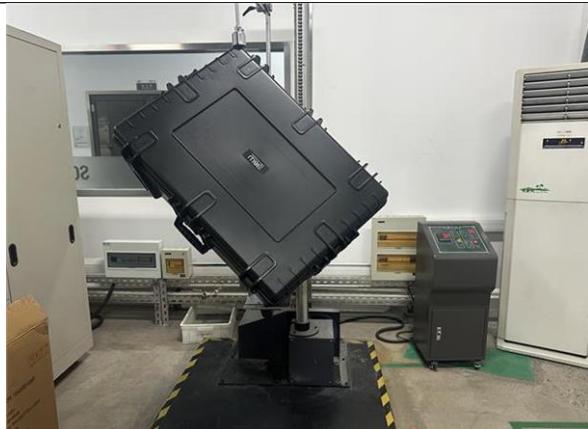
Lab Environment Condition: 15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

Test Item	Result	Evaluation Method	Conclusion
Drop Test	No visible damage	No visible damage	Pass

Note: Do not evaluate the handle area.

Test Photo:



During test



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTech Services Technical Services Co., Ltd.  
Ningbo Branch  
Inspection & Testing Services  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

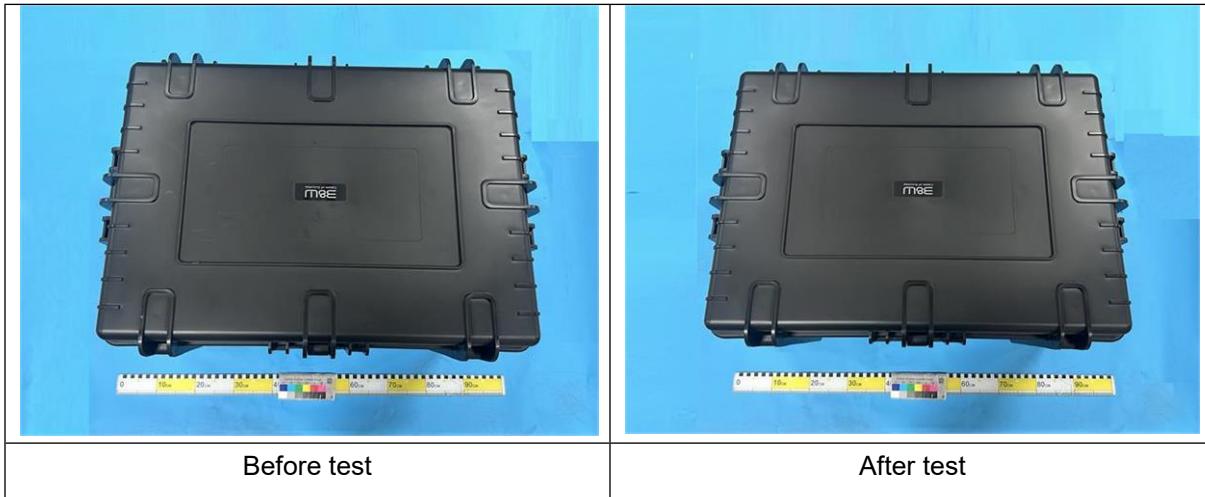
ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 8 of 28



## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Single arm drop tester	GKH-320	SUZMR-312	2025-06-24	2026-06-23

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTechs Technical Services Co., Ltd.  
Ningbo Branch  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 9 of 28

## 4. Test Item: High Temperature Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 501.7 Procedure I

Test Condition:

Step	Initial	Final	Duration	Step	Initial	Final	Duration
1	35°C	35°C	1 h	13	63°C	69°C	1 h
2	35°C	34°C	1 h	14	69°C	70°C	1 h
3	34°C	34°C	1 h	15	70°C	71°C	1 h
4	34°C	33°C	1 h	16	71°C	70°C	1 h
5	33°C	33°C	1 h	17	70°C	67°C	1 h
6	33°C	33°C	1 h	18	67°C	63°C	1 h
7	33°C	36°C	1 h	19	63°C	55°C	1 h
8	36°C	40°C	1 h	20	55°C	48°C	1 h
9	40°C	44°C	1 h	21	48°C	41°C	1 h
10	44°C	51°C	1 h	22	41°C	39°C	1 h
11	51°C	56°C	1 h	23	39°C	37°C	1 h
12	56°C	63°C	1 h	24	37°C	35°C	1 h

Steps 1 to 24 are one cycle, totaling 7 cycles

Lab Environment Condition: 15°C~35°C, 25%RH~75%RH

Test Result:

Test Item	Result	Evaluation Method	Conclusion
High Temperature Test	No visible change	No visible change	Pass

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-574) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

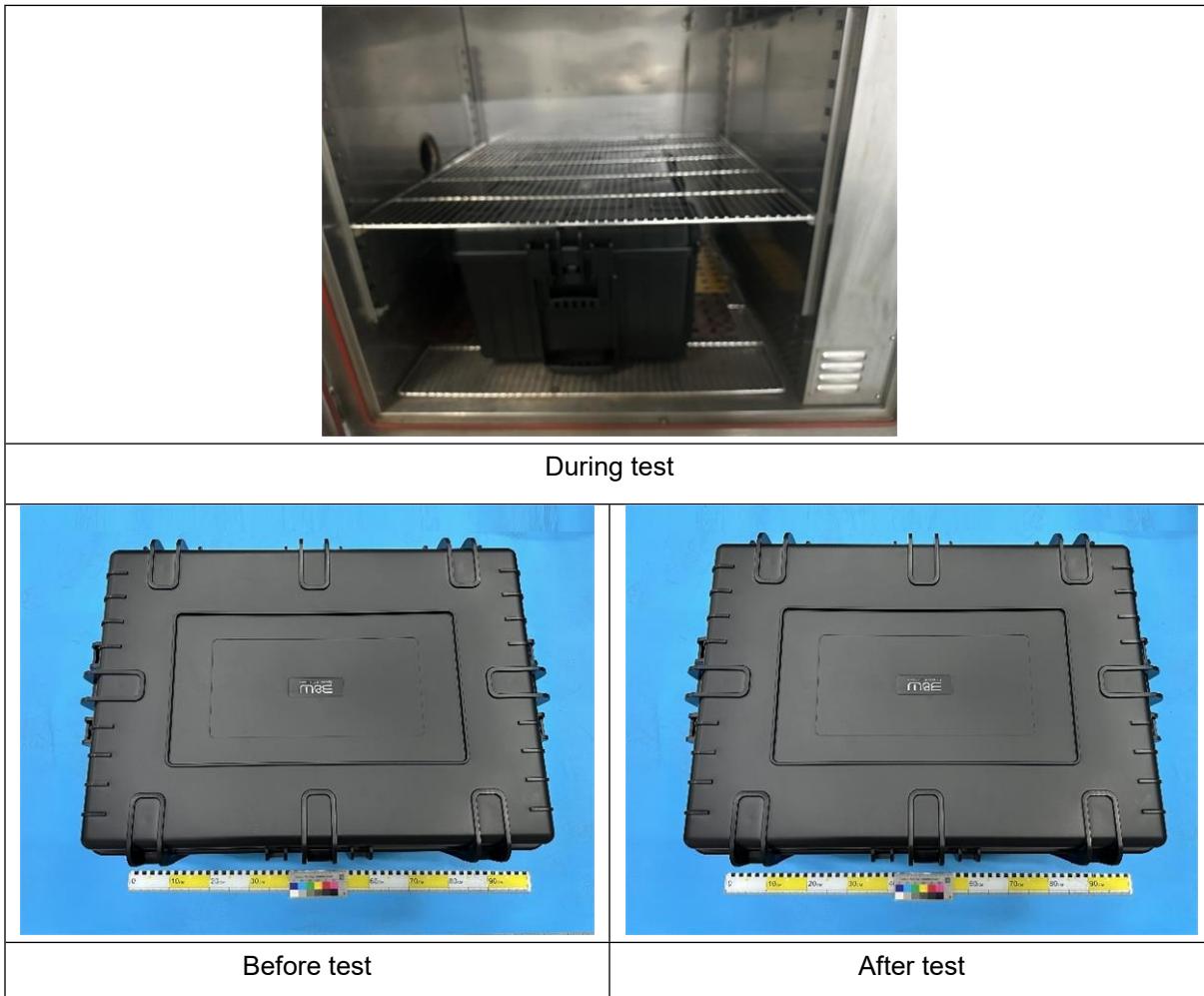
## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 10 of 28

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Constant temperature humidity chamber	KTHG- 415TBS	SUZMR-143	2025-10-30	2026-10-29

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 11 of 28

### 5. Test Item: Loose Cargo Vibration Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 514.8 Section 2.2 (Category 5)

Test Condition:

Frequency: 5 Hz

Amplitude: 25.4 mm<sub>p-p</sub>

Test Direction: Z axis

Test Duration: 20 minutes

Lab Environment Condition: 15°C ~ 35°C, 25% ~75%RH

Test Result:

Test Item	Result	Evaluation Method	Conclusion
Loose Cargo Vibration Test	No visible damage	No visible damage	Pass

Test Photo:



During test



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Standards Technical Services Co., Ltd.  
Ningbo Branch  
中国·浙江·宁波高新区凌云路1177号

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

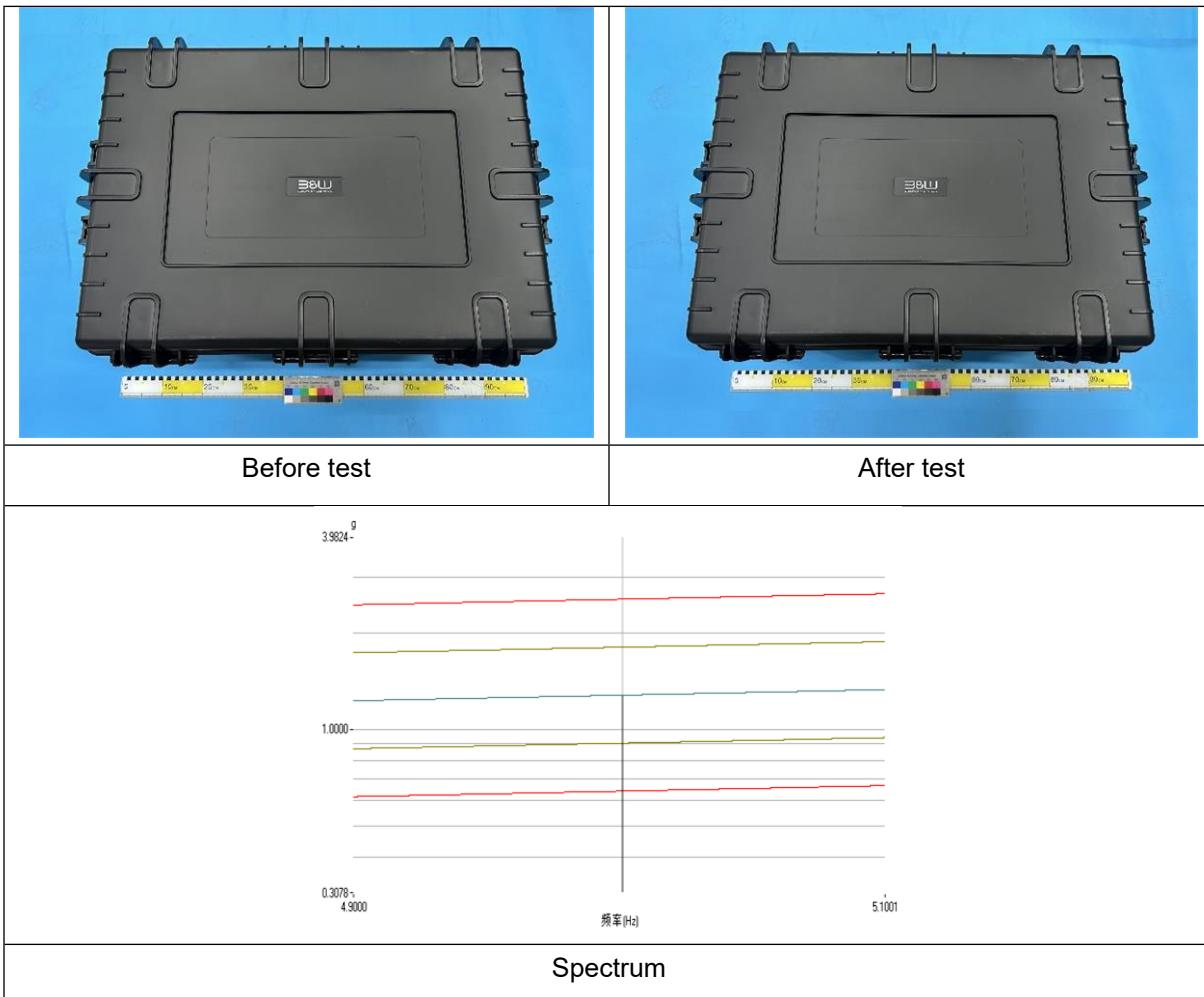
ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 12 of 28



## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Vibrator	ES-50LS3-445-LT1010	SUZMR-001	2025-03-01	2026-02-28

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-574) 8307 1443, or email: CN.Doccheck@sgs.com**



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 13 of 28

### 6. Test Item: Random Vibration Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 514.8 Section 2.1 (Category 4)

Test Condition:

Test direction	Frequency (Hz)	ASD (g2/Hz)	RMS
Vertical (Z axis)	5	0.015	RMS=1.08g
	40	0.015	
	500	0.00015	
Transverse (X axis)	5	0.00013	RMS=0.21g
	10	0.00013	
	20	0.00065	
	30	0.00065	
	78	0.00002	
	79	0.00019	
	120	0.00019	
	500	0.00001	
Longitudinal (Y axis)	5	0.00065	RMS=0.76g
	20	0.00065	
	120	0.00002	
	121	0.0003	
	200	0.0003	
	240	0.0015	
	340	0.00003	
	500	0.00015	

Test Direction: X/Y/Z axis

Test Duration: 1.5 hours/axis, Total 4.5 hours.

Lab Environment Condition: 15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

Test Item	Result	Evaluation Method	Conclusion
Random Vibration Test	No visible damage	No visible damage	Pass

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

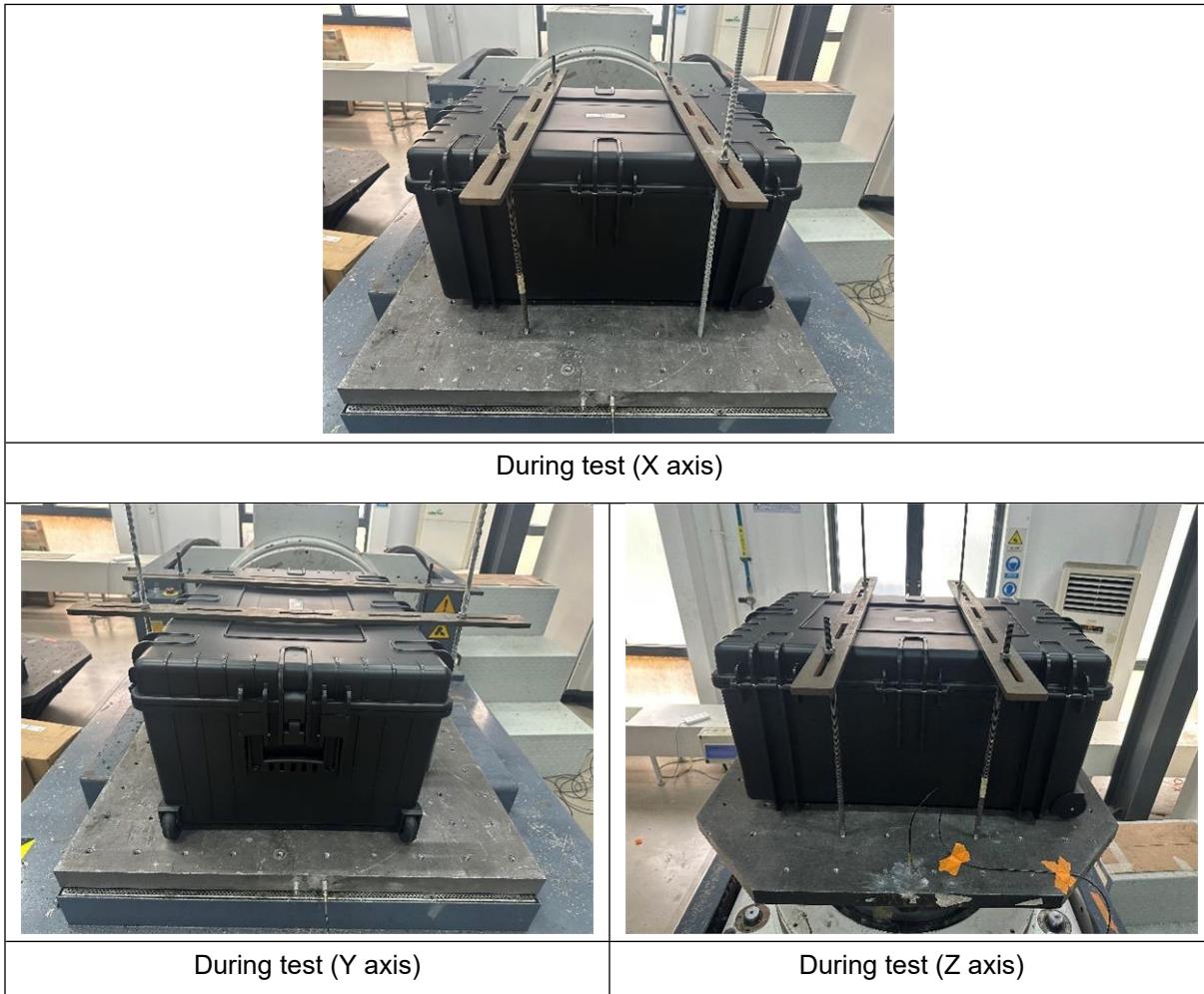
**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 14 of 28

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTech Services Technical Services Co., Ltd.  
Ningbo Branch  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

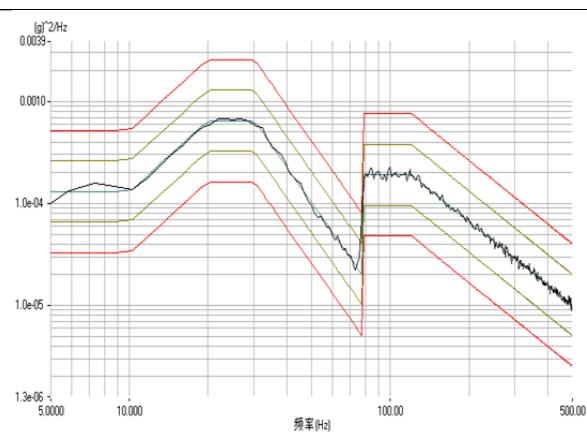
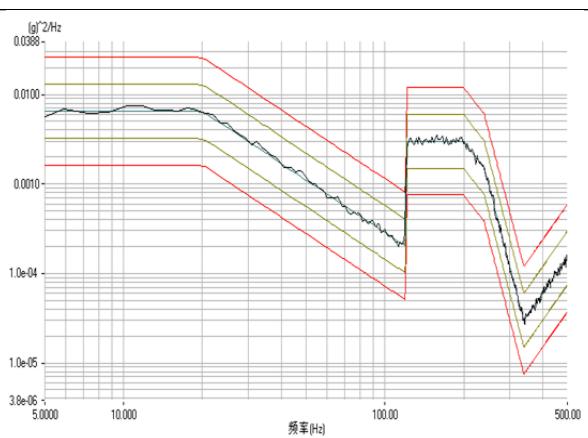
Member of the SGS Group (SGS SA)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 15 of 28

	
Before test	After test
	
Spectrum (X axis)	Spectrum (Y axis)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTB Ningbo Branch Technical Services Co., Ltd.  
Inspection & Testing Services  
Ningbo Branch Laboratory  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

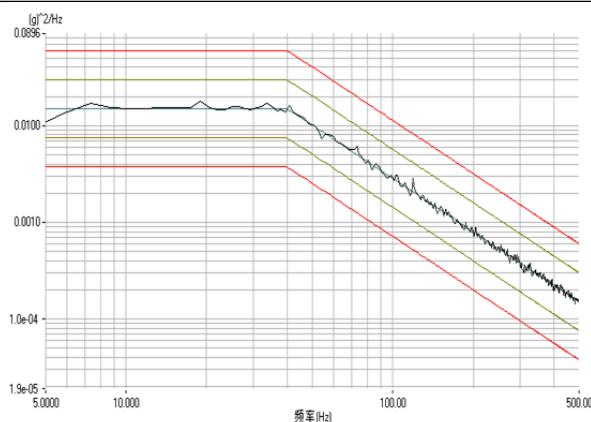
ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 16 of 28



Spectrum (Z axis)

## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Vibrator	ES-50LS3-445-LT1010	SUZMR-001	2025-03-01	2026-02-28

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.DocCheck@sgs.com](mailto:CN.DocCheck@sgs.com)



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 17 of 28

### 7. Test Item: Shock Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 516.8 Section 4.6.2.3 (Procedure I)

Test Condition:

Pulse waveform: Half sine wave

Acceleration: 40 g

Pulse width: 11 ms

Shock direction:  $\pm X/\pm Y/\pm Z$  axis

Number of shocks: 3 times/axis, a total of 18 times

Lab Environment Condition: 15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

Test Item	Result	Evaluation Method	Conclusion
Shock Test	No visible damage	No visible damage	Pass

Test Photo:



During test (X axis)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CST Standards Technical Services Co., Ltd.  
Ningbo Branch  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

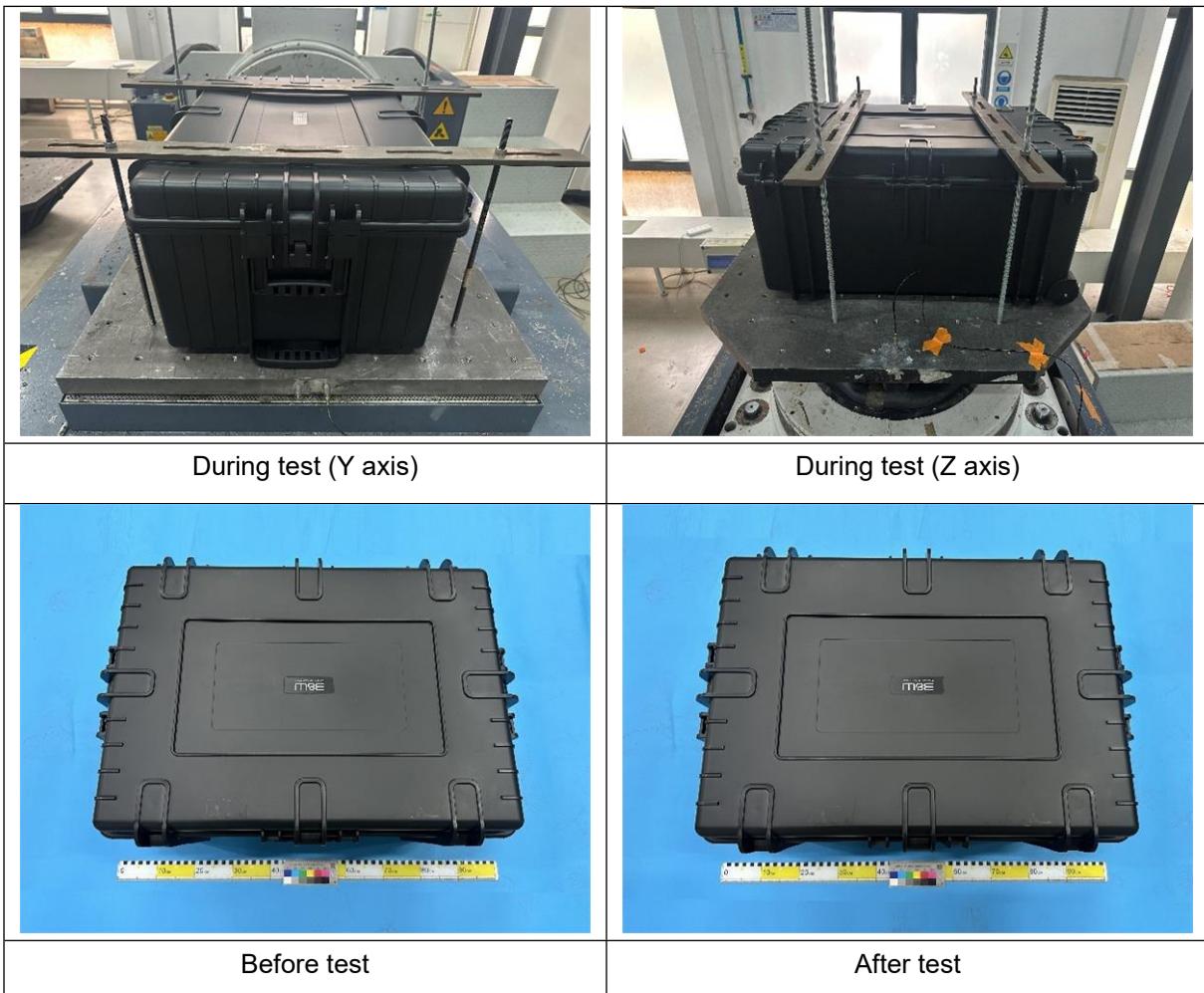
ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 18 of 28



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTB Ningbo Branch Technical Service Co., Ltd.  
Ningbo Branch

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

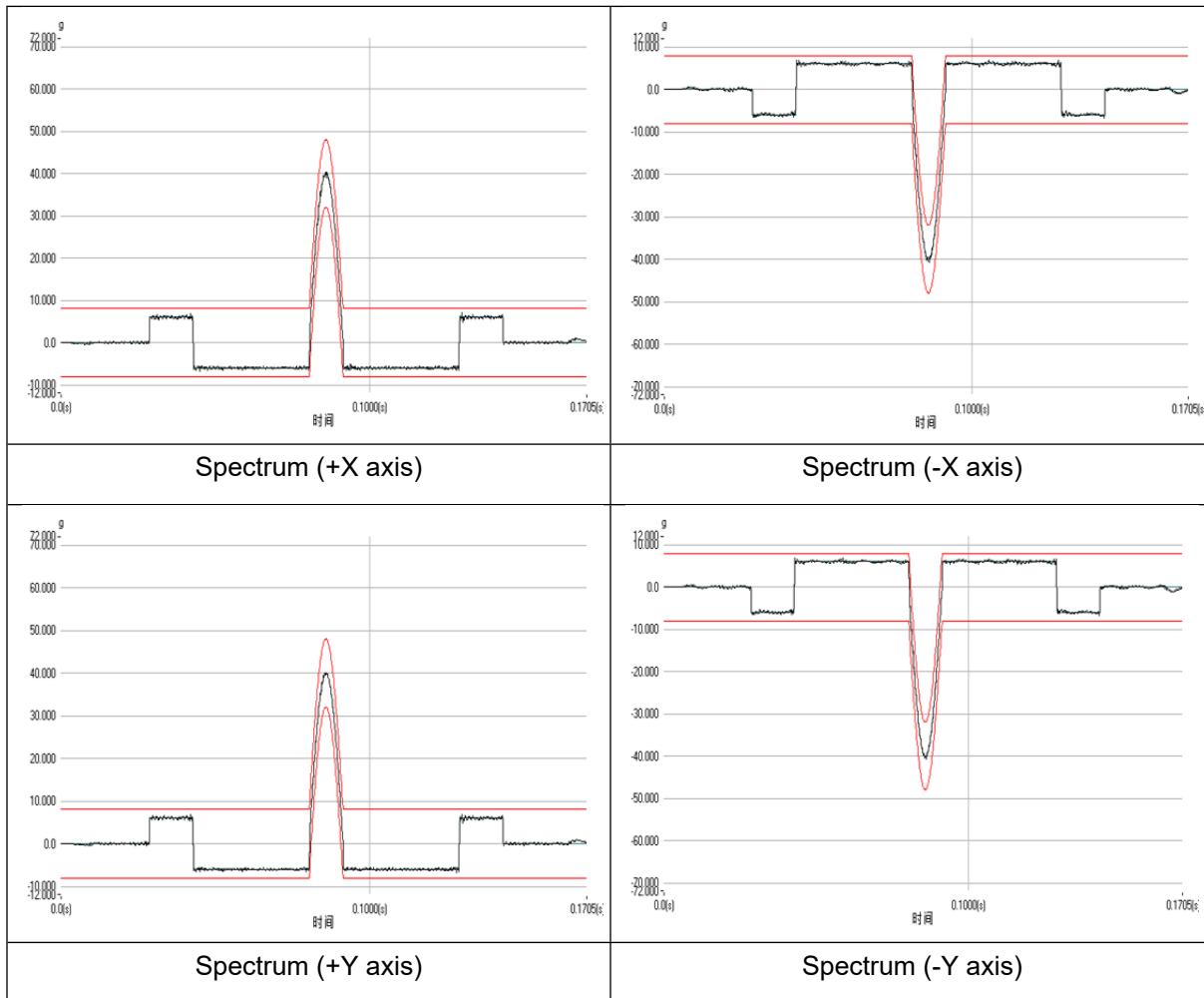
Member of the SGS Group (SGS SA)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 19 of 28



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTB Inspection & Testing Services Co., Ltd.  
Ningbo Branch

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

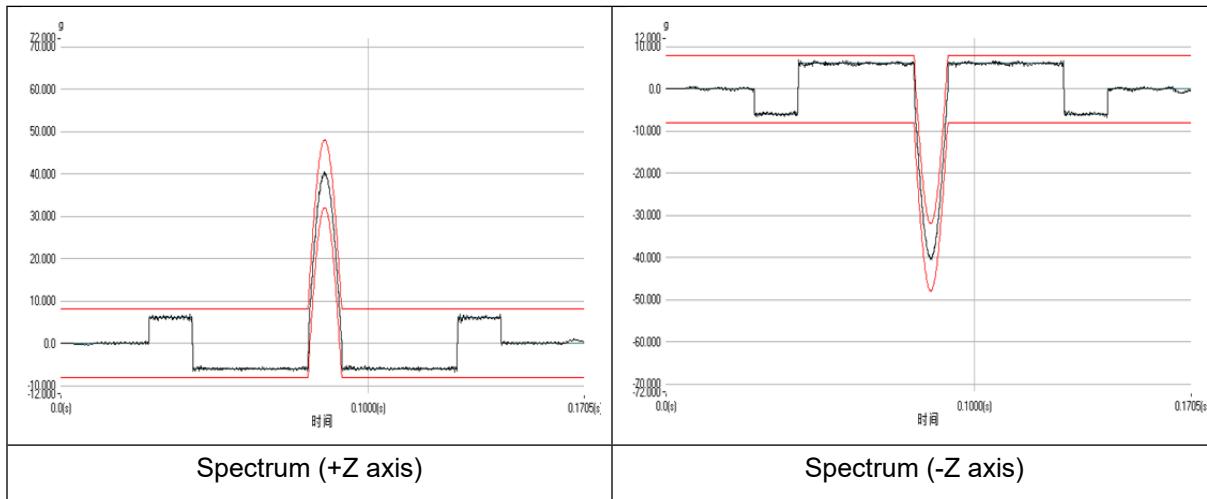
ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 20 of 28



## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Vibrator	ES-50LS3-445-LT1010	SUZMR-001	2025-03-01	2026-02-28

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 21 of 28

## 8. Test Item: Low Pressure(altitude)

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 500.6 Procedure I

Test Condition:

Test temperature: 25°C

Test pressure: 57.2 kPa(4572m)

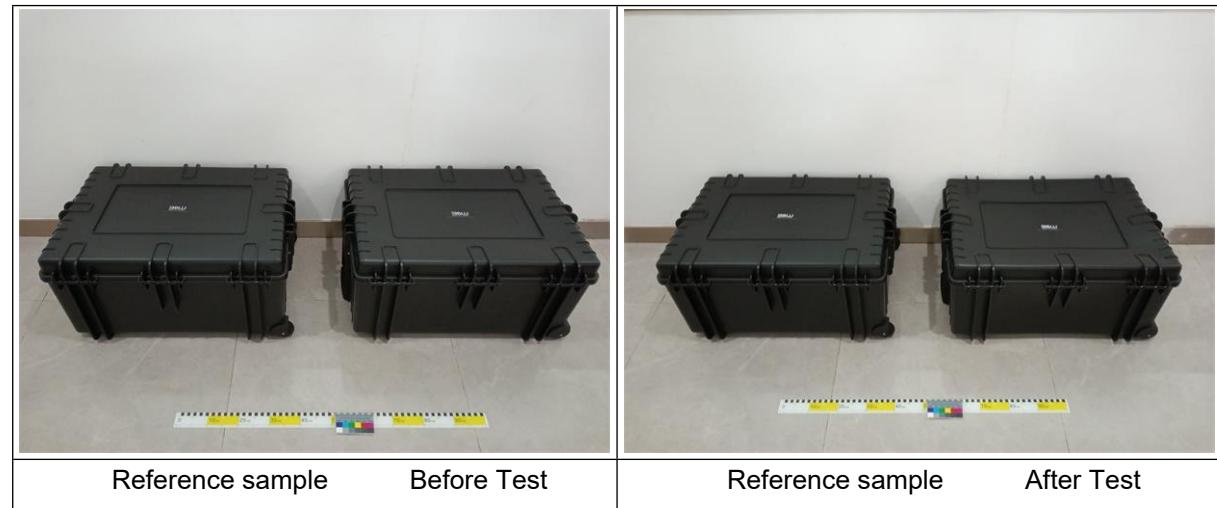
Test duration: 1 h

Lab Environmental Condition: 15 °C - 35 °C, 25 %RH - 75 %RH

Test Result:

Test Item	Apprearence	Client's requirements	Conclusion
Low Pressure(altitude)	No visual change	No visual change	Pass

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



SGS-CSTC Ningbo Branch Technical Services Co., Ltd.  
Ningbo Branch Laboratory  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 22 of 28



During Test

## Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Low Air Pressure Test Chamber	MS-DQY-1000L	GZMR-RL-E160	2025-02-08	2026-02-07



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Standards Technical Services Co., Ltd.  
Ningbo Branch  
No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283  
PL (86-574) 89070238  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 23 of 28

## 9. Test Item: Thermal shock

Sample Description: Black box

Quantities of Specimens: 1

Test Standards: MIL-STD-810H w/Change 1.2022 Method 503.7 Section 4.4.2.4 (Procedure I-D) &amp;

Client Requirements

Client Requirements: No visible changes

Lab Environmental Conditions: 15~35°C, 25~75%RH

Description of Test Method:

step	temperature	time
1	63°C	1h
2	-33°C	1h

Temperature conversion time:<1min

Cycle times: 1

Test Result:

Test Item:	description	Conclusion
Thermal shock	No visible changes after the experiment	Pass

Evaluation Method: See Client Requirements



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Ningbo Branch Inspection & Testing Services Co., Ltd.  
Ningbo Branch

No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

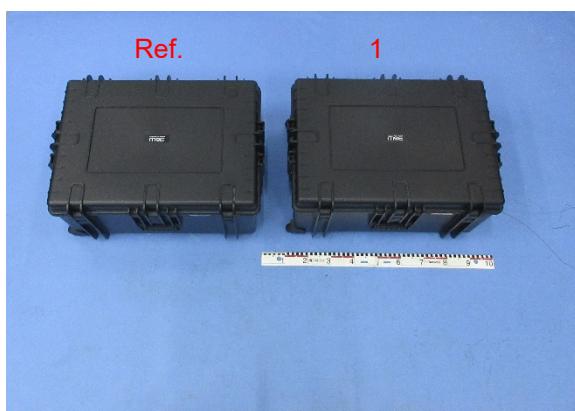
Date : 2025-12-04

Page: 24 of 28

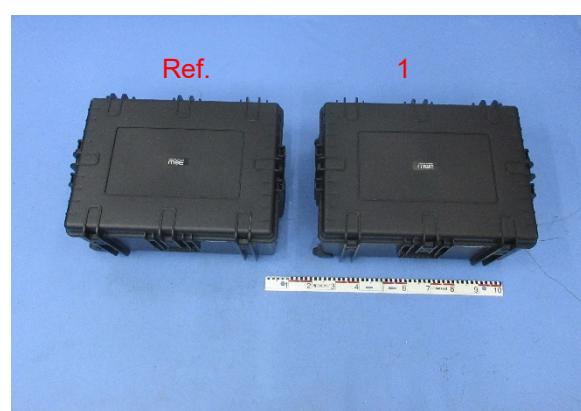
Test Photo:



Testing



Before Test



After Test

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Inspection & Testing Services Co., Ltd.  
Ningbo Branch

| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

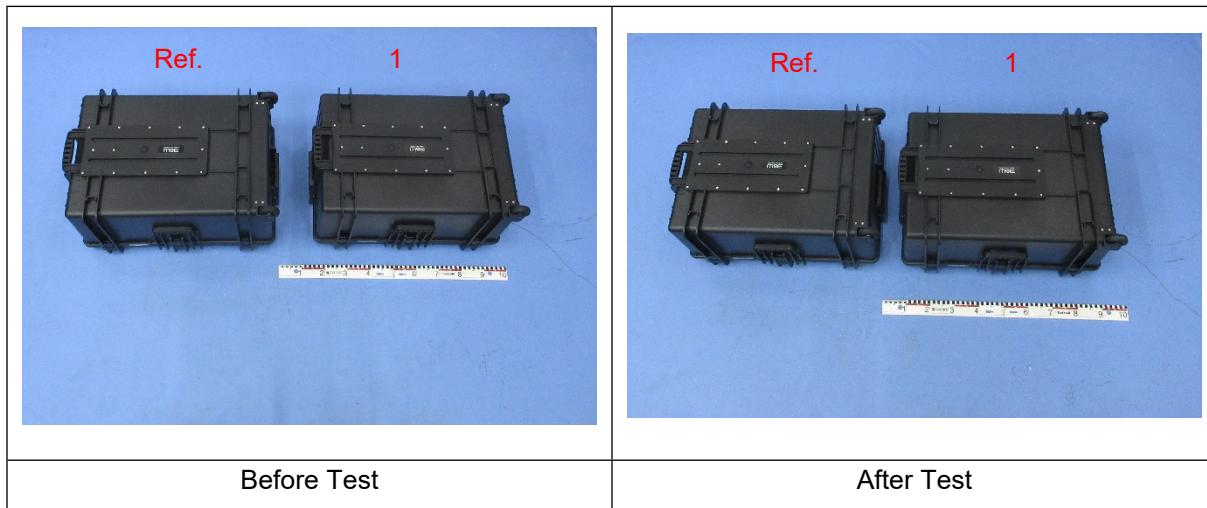
ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 25 of 28



Test Curve:



Equipment Information:

Equipment Name	Equipment Model	Equipment No.	Calibration date	Next Calibration date
Thermal shock chamber	AZTS1000U-2T	NBAUTO-T-015	2025-03-03	2026-03-02

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 www.sgsgroup.com.cn  
PL (86-574) 89070238 sgs.china@sgs.com

## TEST REPORT

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 26 of 28

### 10. Test Item: Immersion Test

Test equipment:

Equipment No.	Equipment name	Model	Calibration period to
AST0052	Water Splash Test Device	JL-C	2026-02-16
AST0114	Infrared thermometer	MT4 MAX	2026-02-16

Test ambient: Temperature (°C)18~19; Relative Humidity(%RH):40~42;

Atmospheric pressure:98kPa~104kPa

Test condition:

MIL-STD-810H w/Change 1-2022 Method 512.6 Section 4.4.2 (Procedure I) and the client's requirements

Test conditions: Procedure I - Immersion

Deep water: 1 m

Test duration: 30 minutes

The process of experiment implementation:

- 1) Before the test begins, conduct an appearance inspection of the samples under standard atmospheric conditions and record the inspection results.
- 2) Adjust the sample temperature to be the same as the water temperature until a stable temperature is achieved.
- 3) Immerse the sample 1 meter underwater as soon as possible;
- 4) After soaking for 30 minutes, take the specimen out of the water and dry its outer surface.
- 5) After the test, conduct an appearance inspection of the samples under standard atmospheric conditions and record the inspection results.

Test determination basis: According to MIL-STD-810H: 2022 and the requirements of the entrusting unit, the samples after the test should meet the following requirements:

- 1) No water enter the sample..

Test conclusion:

Test Item	Test result	Conclusion
Immersion Test	No water enter the sample.	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
| 中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

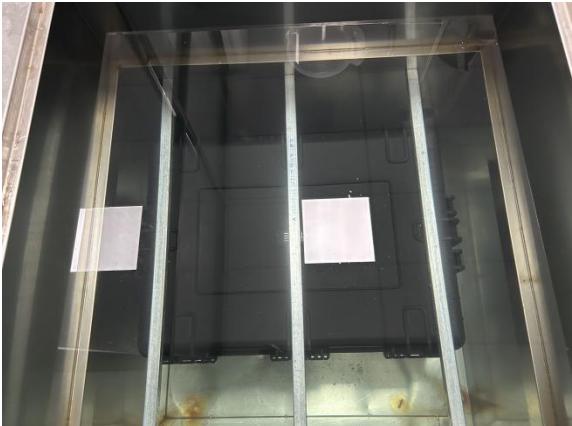
**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 27 of 28

Test photo:

	
before test	after test
	
after test	Sample setup

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**



No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号 邮编: 315040

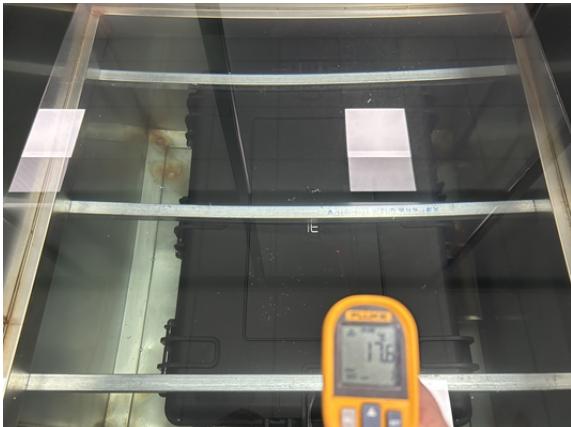
ML (86-574) 89070283 www.sgsgroup.com.cn  
PL (86-574) 89070238 sgs.china@sgs.com

**TEST REPORT**

No. : NBIN2511003574PL01\_EN

Date : 2025-12-04

Page: 28 of 28

	
Water temperature	Sample temperature
	/
Operation monitoring	/

Appendix information: Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

- Test item 3-8 were carried out by other SGS laboratory.
- The item 10 was carried out by external laboratory assessed as competent.
- The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

\*\*\*\*\*End of report\*\*\*\*\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CS Standards Technical Services Co., Ltd.  
Ningbo Branch  
Inspection & Testing Services

| No.1177, LingyunRoad, Hi-Tech Zone, Ningbo, Zhejiang, China 315040  
中国·浙江·宁波高新区凌云路1177号

邮编: 315040

ML (86-574) 89070283 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
PL (86-574) 89070238 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)