

**TEST REPORT**

No. : NBIN2511003573PL01\_EN

Date : 2025-12-04

Page: 1 of 26

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NBIN2511003573PL01

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CUSTOMER NAME: B&W (JIAXING) CO., LTD  
ADDRESS: NO.997 FENGHUA ROAD, JIAXING 314036, ZHEJIANG

Sample Name : OUTDOOR CASES

Product Specification : type 500

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



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## 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)	No visual change	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	Immersion Test	MIL-STD-810H w/Change 1-2022 Method 512.6 Section 4.4.2 (Procedure I)	See result	Pass
9	Low Pressure(altitude)	MIL-STD-810H w/Change 1-2022 Method 500.6 Procedure I	No visual change	Pass
10	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

Note: Pass : Meet the requirements;

Fail : Does not meet the requirements;

/ : Not Apply to the judgment.

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Original Sample Photo:



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### 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	No visual change	No visual change	Pass

Test Photo:



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

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**TEST REPORT****No. : NBIN2511003573PL01\_EN****Date : 2025-12-04****Page: 5 of 26****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

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### 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: 122 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



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### 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

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## 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

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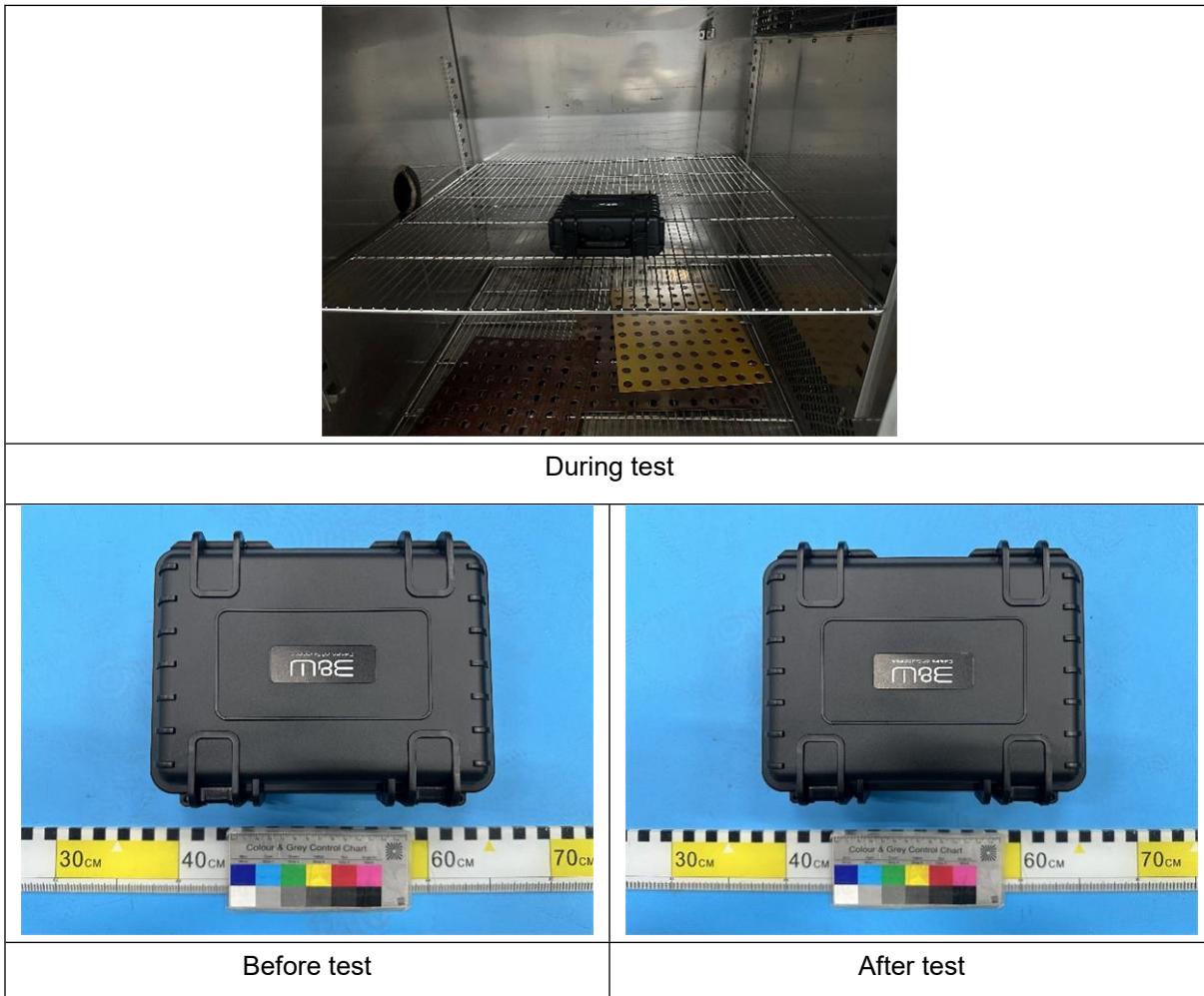
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Test Photo:



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

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### 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



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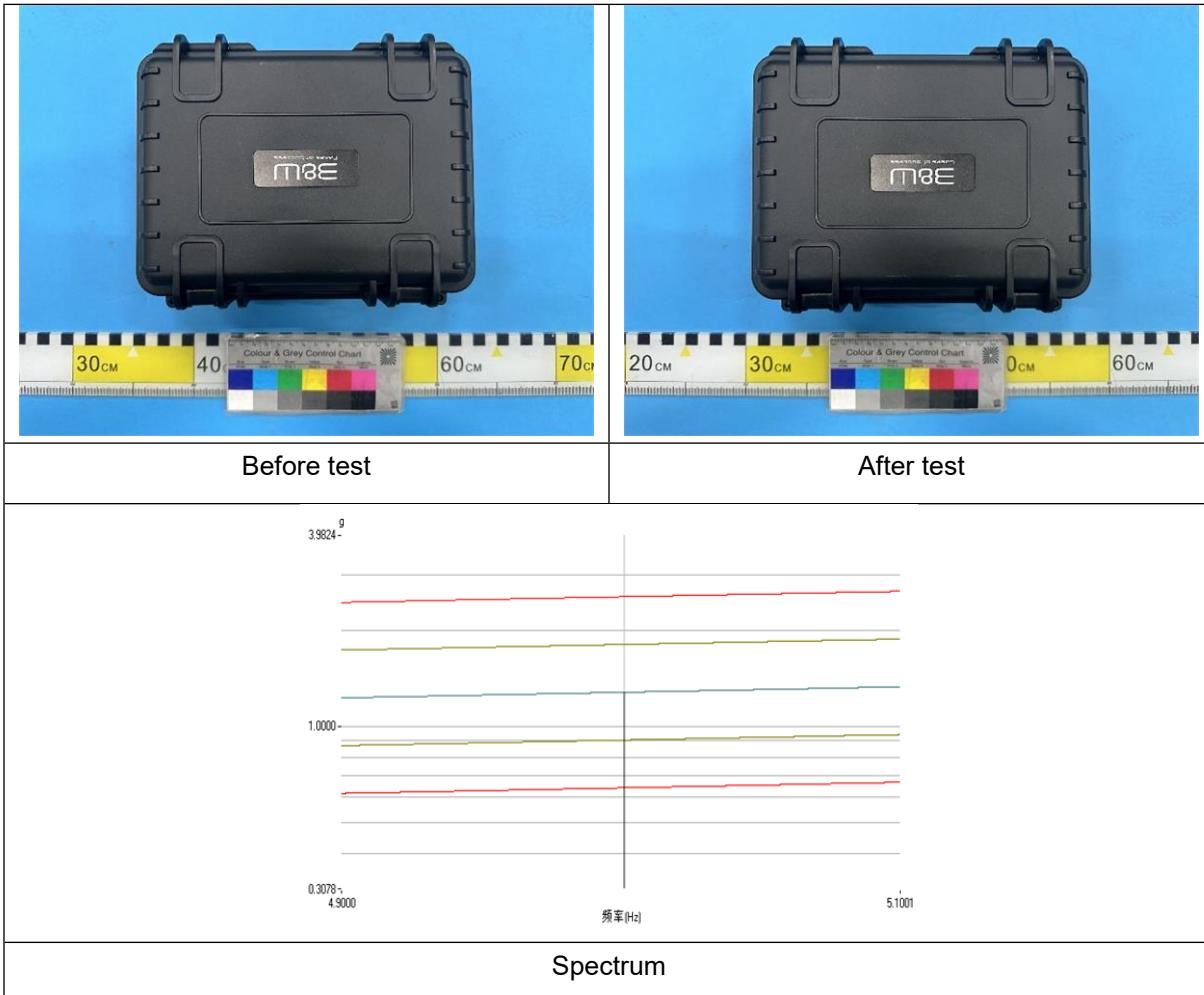
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### Equipment Information:

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

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## 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 (g <sup>2</sup> /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

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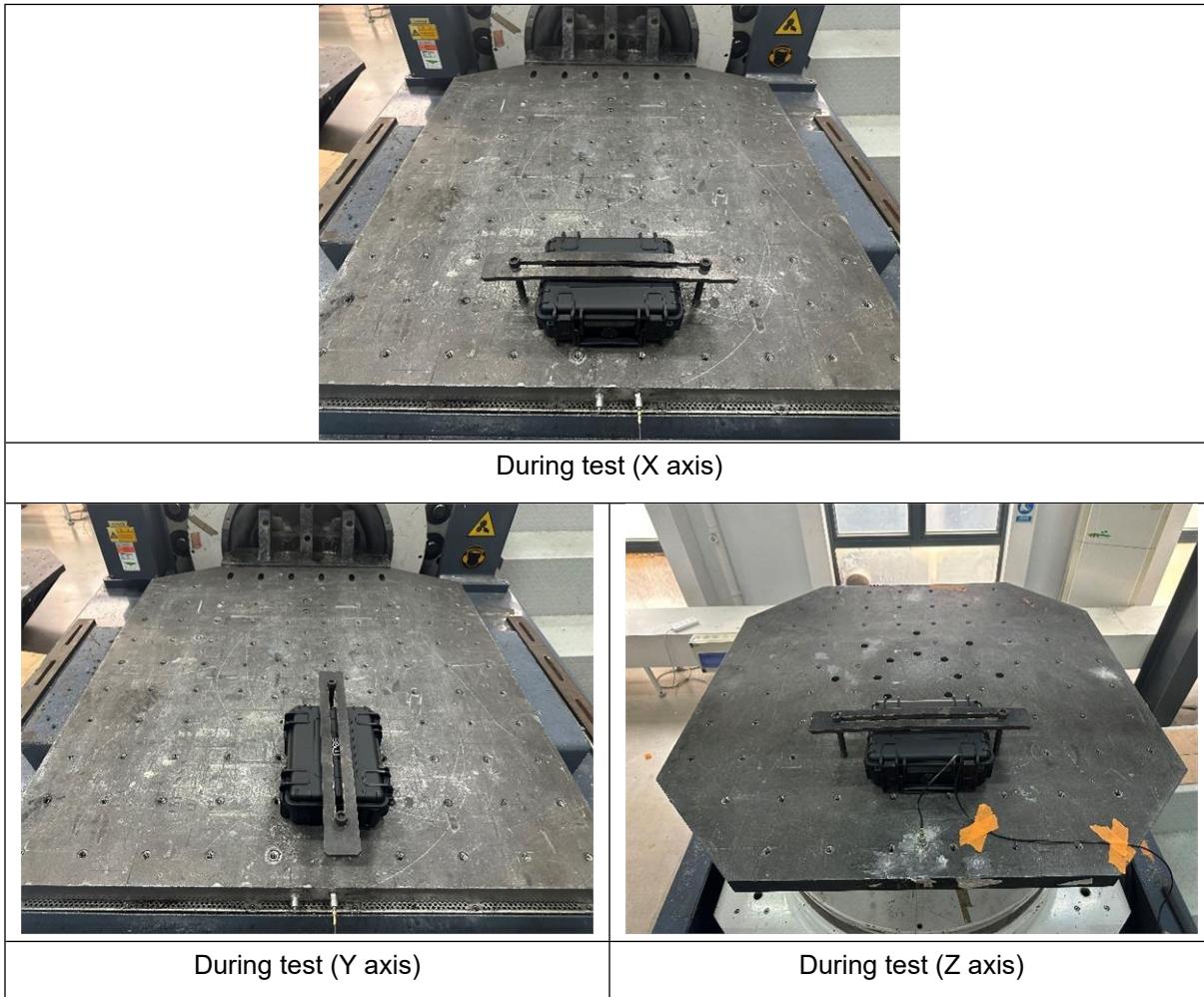
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Test Photo:



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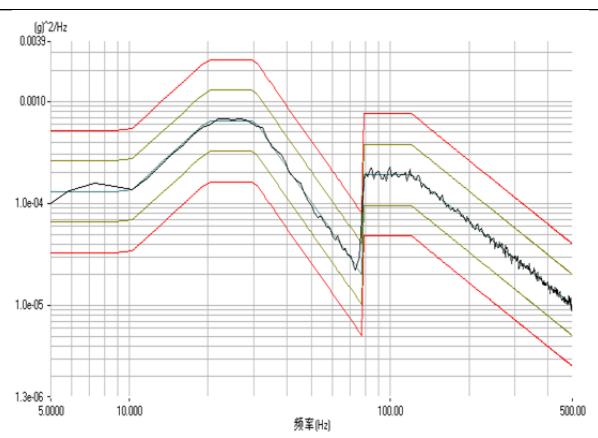
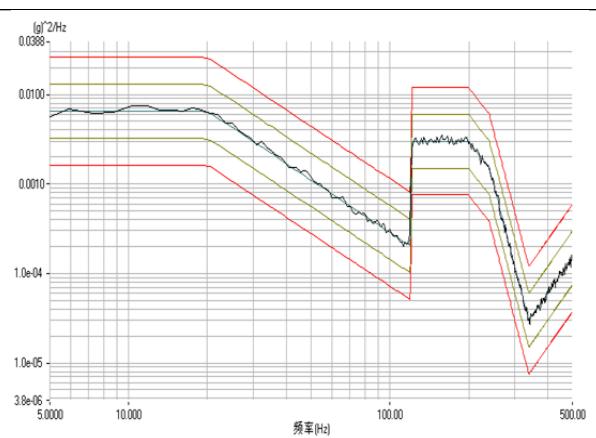
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<p>Before test</p>	<p>After test</p>
	
<p>Spectrum (X axis)</p>	<p>Spectrum (Y axis)</p>

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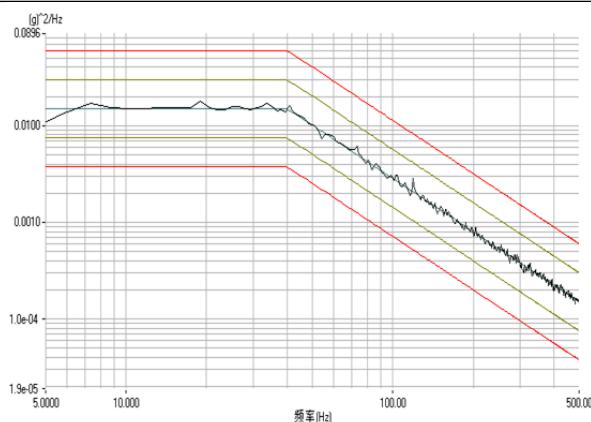
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Spectrum (Z axis)

## Equipment Information:

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

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### 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)

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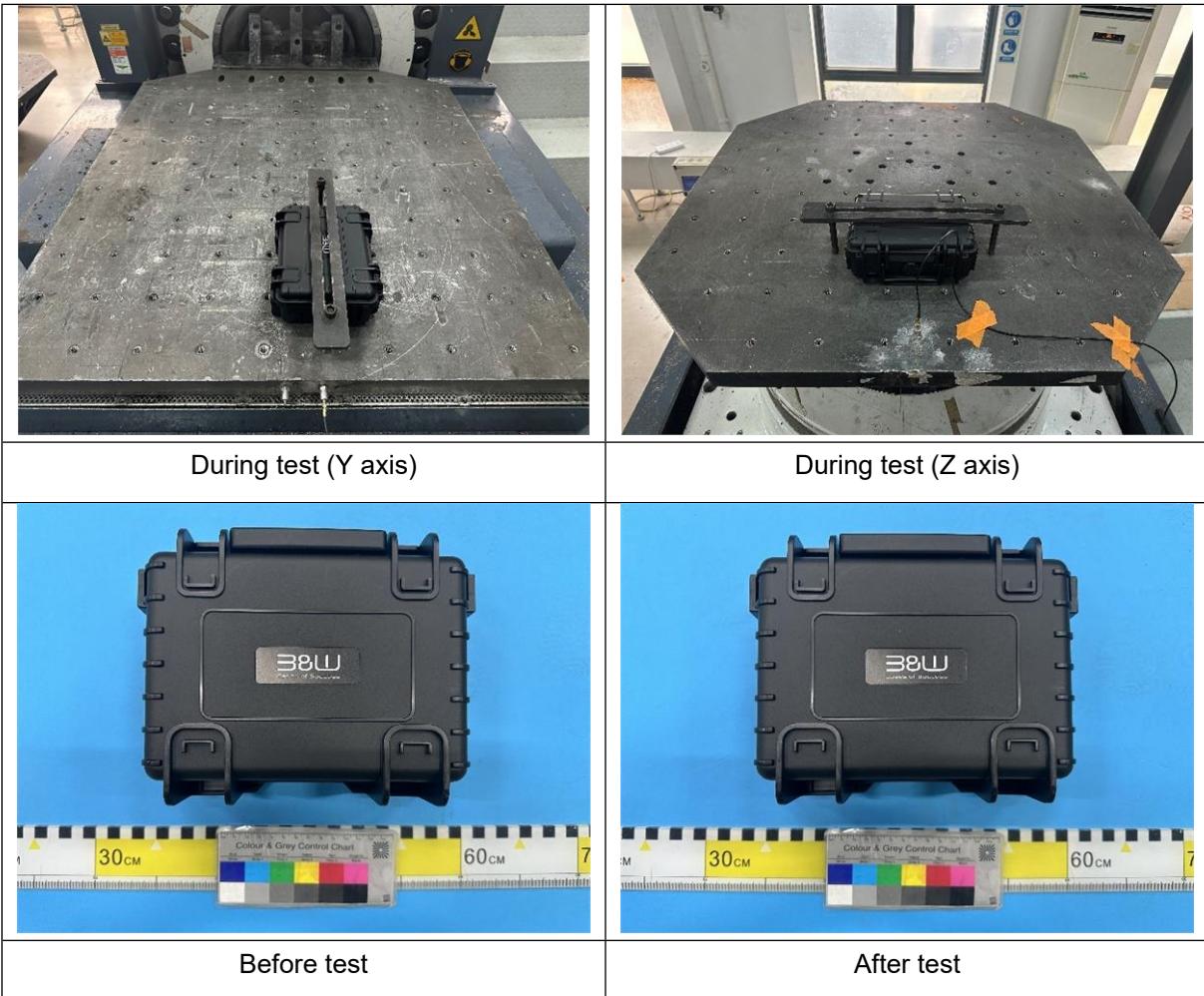
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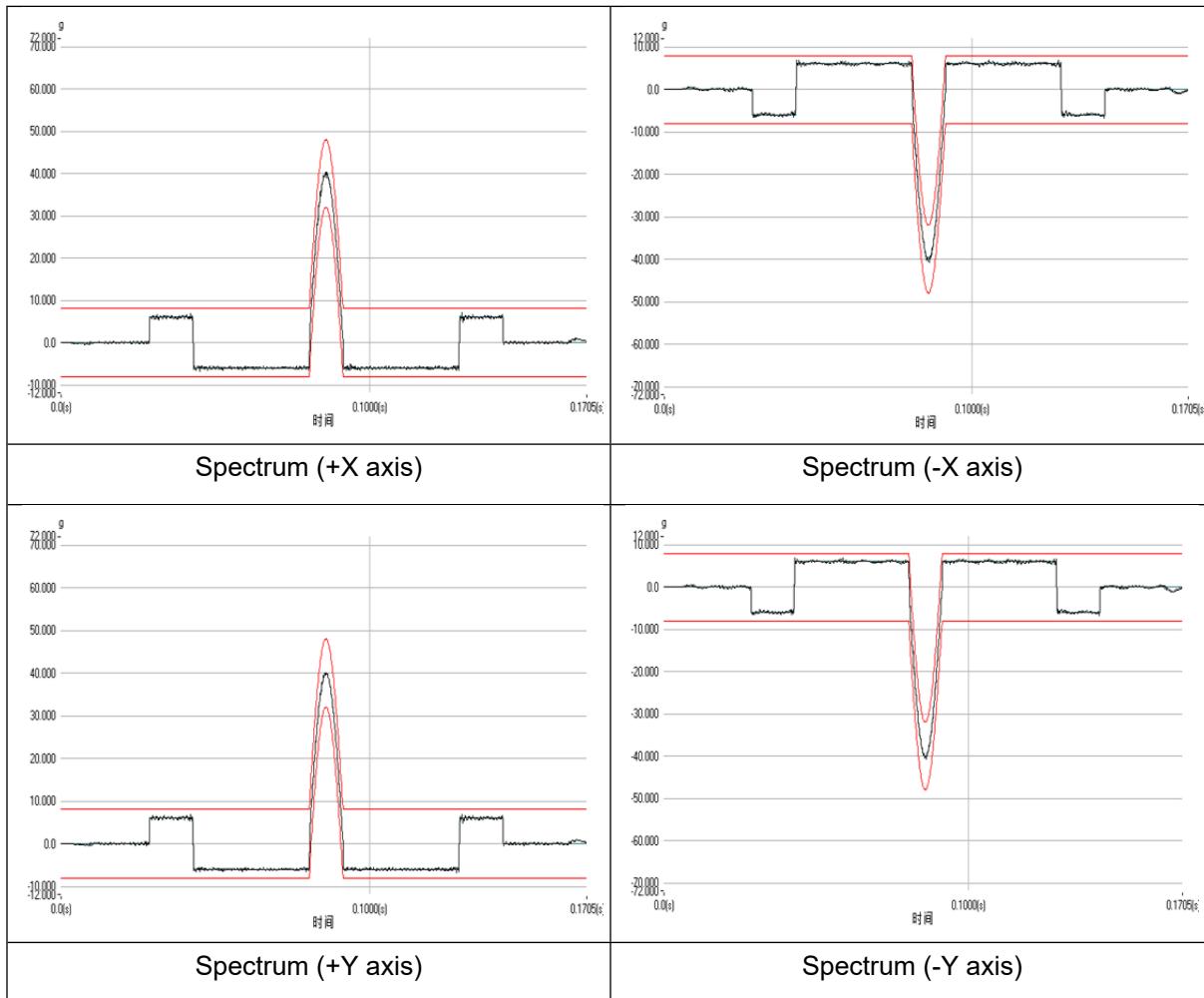
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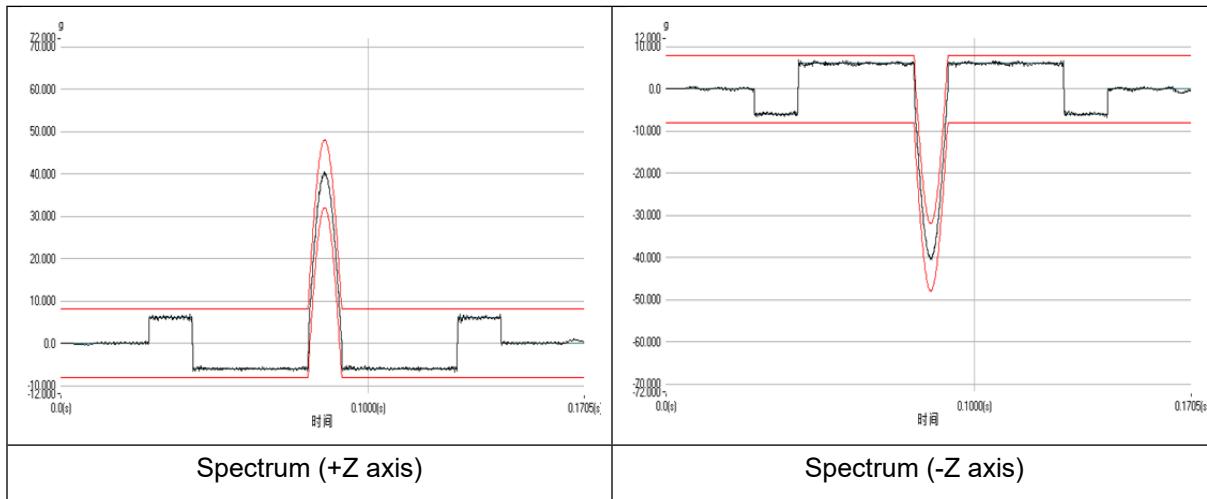
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## Equipment Information:

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

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### 8. Test Item: Immersion Test

Sample Description: Black case

Test Method: MIL-STD-810H w/Change 1-2022 Method 512.6 Section 4.4.2 (Procedure I)

Test Condition:

Depth: 1 m

Immersion Duration: 30 min

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

Test Result:

Test Item	Result	Evaluation Method	Conclusion
Immersion Test	No visible water ingress	No visible water ingress	Pass

Test Photo:



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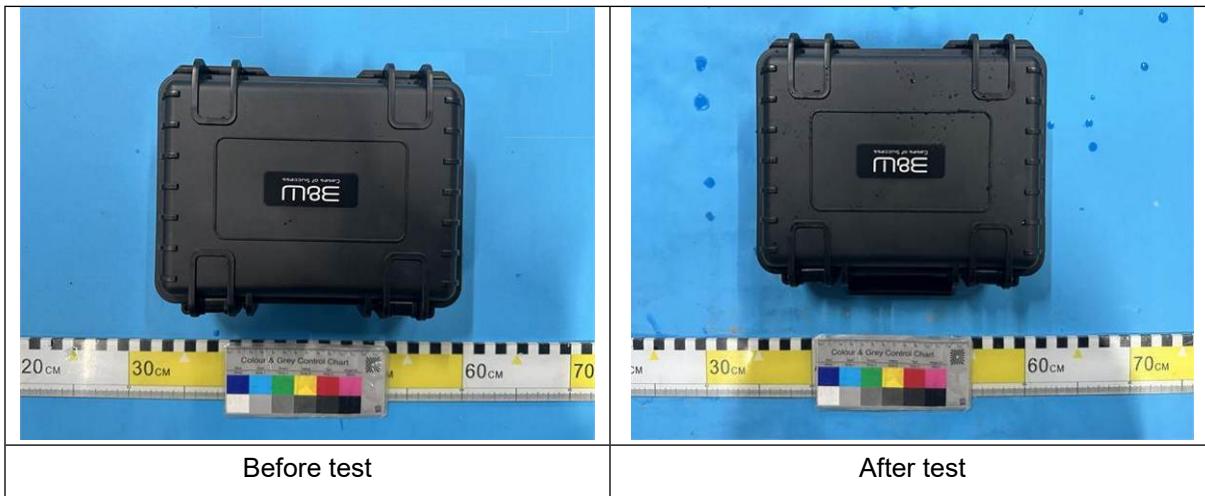
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### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
IPX1—X7 Waterproof Grade Testing Machine	—	SUZMR-181	2025-02-18	2026-02-17

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## 9. 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)

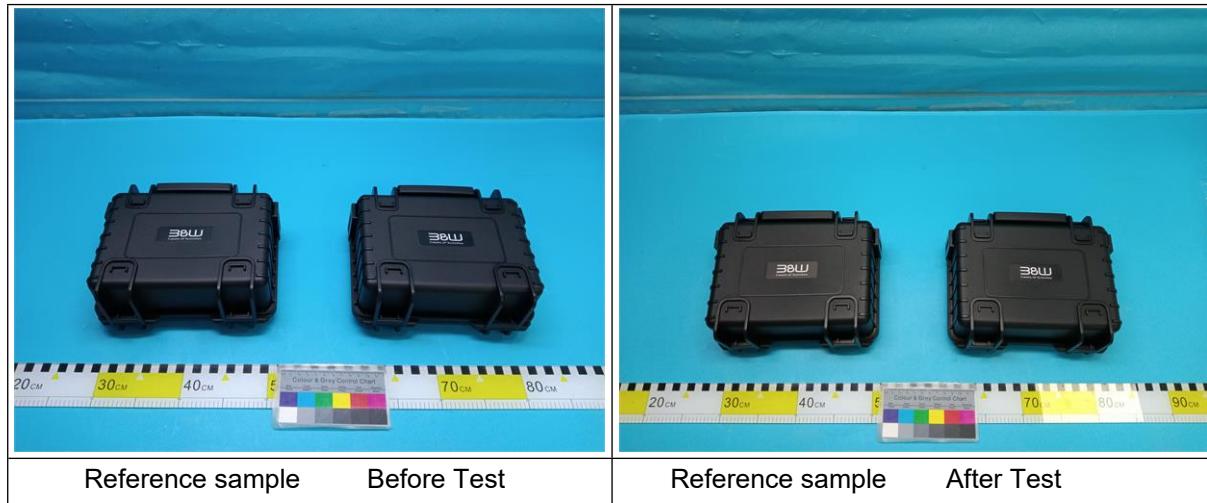
Test duration: 1 h

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

Test Result:

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

Test Photo:



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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



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**TEST REPORT****No. : NBIN2511003573PL01\_EN****Date : 2025-12-04****Page: 24 of 26****10. Test Item: Thermal shock**

Sample Description: Black case

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

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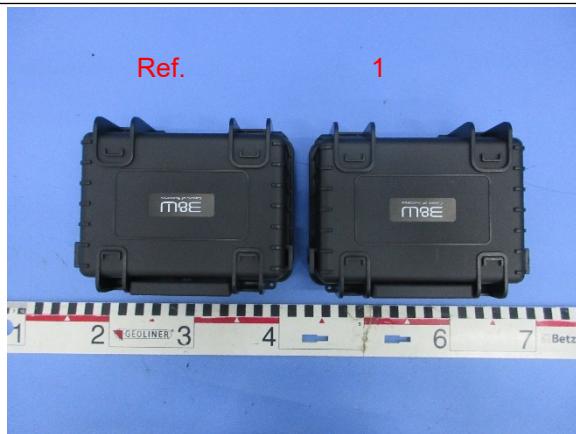
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Test Photo:



Testing



Before Test



After Test

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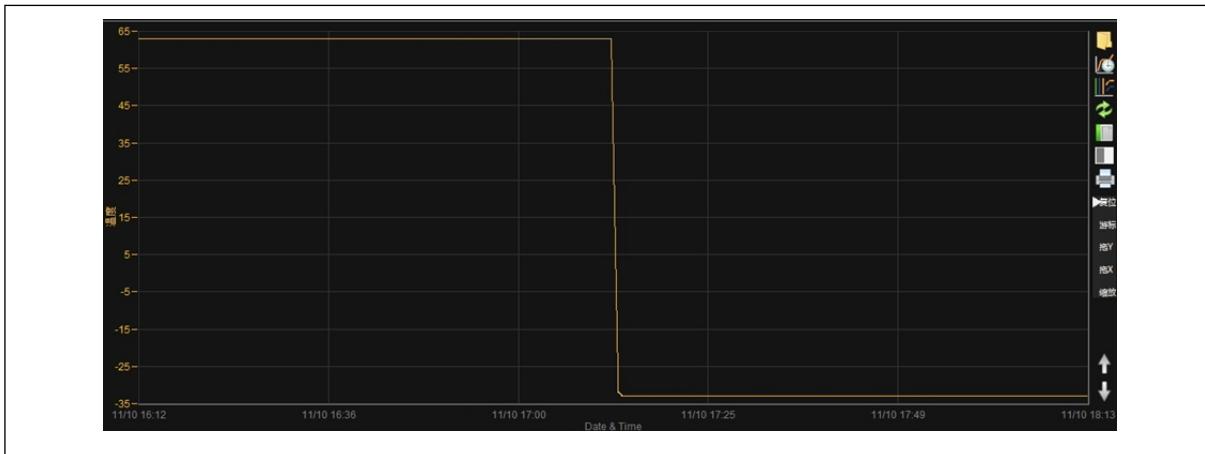
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## Test Curve



## 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

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- Test item 3-9 were carried out by other SGS laboratory.
- 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\*\*\*\*\*



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