SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 11422

Date of issue: *November 21, 2025*

Status: FINAL REPORT

****

IEC 60068-2-31

ENVIRONMENTAL TESTING

- TEST EC: ROUGH HANDLING SHOCKS, PRIMARILY FOR EQUIPMENT-TYPE SPECIMENS -

Program: SQ-6087.V5

****

Prepared by:	Reviewed by:	Approved by:
cn=BERENICE C. FERREL, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=tech@ptsouthquality.com, c=AR 2025.11.21 11:56:56 -03'00'	cn=ESTHER CASAS, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=ecasas@ptsouthquality.com, c=AR 2025.11.21 15:18:01 -03'00'	cn=Emiliano Medina, o=SOUTH QUALITY, ou=PT SOUTH QUALITY SAS, email=quality@ptsouthquality.com, c=ES 2025.11.22 11:41:27 -03'00'
Berenice Ferrel Assistant Technician	**Lic. Esther Casas** Physics expert	**Eng. Emiliano Medina** Quality Assurance Lead

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1. FOREWORD

This report summarizes the results of the **SQ-6087.V5** proficiency testing program, focusing on the determination of the resistance of samples to shocks. This program is conducted in a bilateral format, following the A.3.3 classification of the ISO 17043 standard ("Split-sample testing schemes").

South Quality conducted the testing program in July 2025 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator:	Lic. Esther Casas
Assistant Technician:	Berenice Ferrel
Statistic:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to perform a visual and functional inspection of the equipment under test, using the following standard:

Standard
IEC 60068-2-31: 2008

To verify this, electronic equipment has been selected.

Participants in this program have not been informed in advance about the expected behavior of the samples they receive.

As a usual practice of this program, three different combinations of samples can be sent to participants:

i. Sample A (PASS) + Sample B (PASS).
ii. Sample A (PASS) + Sample B (FAIL).
iii. Sample A (FAIL) + Sample B (FAIL).

4. PARTICIPANT

Company: **Hermon Laboratories Ltd.**

Laboratory: **Hermon Laboratories Ltd.**

Country: Israel

Client ID: S332

Contact person: George Shleimovich
Quality Manager
george@hermonlabs.com

5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was employed, and samples were chosen using random number generation software.

The results of this test are presented below:

Size of each batch: **30 units**
Tested samples from each batch: **8 units**
Test conditions: **Procedure 1 (5 falls - 1 m)**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE SAMPLES ANALYZED		
	BATCH: LMI2027	BATCH: LMI2028	BATCH: LMI2029
VISUAL INSPECTION	NO	YES	NO
FUNCTIONAL INSPECTION	YES	YES	NO

Size of each batch: **30 units**
Tested samples from each batch: **8 units**
Test conditions: **Procedure 1 (5 falls - 1 m)**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE SAMPLES ANALYZED		
	BATCH: LMI2140	BATCH: LMI2141	BATCH: LMI2142
VISUAL INSPECTION	YES	YES	NO
FUNCTIONAL INSPECTION	YES	YES	NO

Samples for this program are taken from the selected batches identified as **LMI2028** and **LMI2141**.

For the indicated batches, the results determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

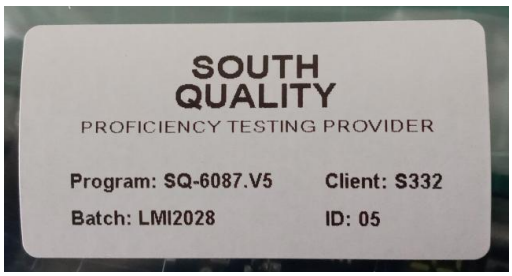
The following samples were sent for testing:

Batch:	LMI2028
Sample ID:	05
Characteristics:	Battery operated hair clipper Trademark: STARVISION Model: VINTAGE 09

Batch:	LMI2141
Sample ID:	08
Characteristics:	Battery operated hair clipper Trademark: DINAX Model: CBCL606

7. IMAGES

SAMPLES



SAMPLES

8. ASSIGNED VALUES

BATCH	TEST SEVERITIES	INSPECTION		RESULT
LMI2028	Procedure 1 (5 falls - 1 m)	VISUAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
		FUNCTIONAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
LMI2141	Procedure 1 (5 falls - 1 m)	VISUAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
		FUNCTIONAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	TEST SEVERITIES	INSPECTION		RESULT
LMI2028-05	Procedure 1 (5 falls - 1 m)	VISUAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
		FUNCTIONAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
LMI2141-08	Procedure 1 (5 falls - 1 m)	VISUAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS
		FUNCTIONAL	BEFORE THE TEST	PASS
			AFTER THE TEST	PASS

10. STATISTICS

The results must be treated as qualitative.

For qualitative results, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Satisfactory**.

11. EVALUATION OF PERFORMANCE

BATCH	INSPECTION		PARTICIPANT RESULT	ASSIGNED VALUE	PERFORMANCE RESULT
LMI2028	VISUAL	BEFORE THE TEST	PASS	PASS	**SATISFACTORY**
		AFTER THE TEST	PASS	PASS	**SATISFACTORY**
	FUNCTIONAL	BEFORE THE TEST	PASS	PASS	**SATISFACTORY**
		AFTER THE TEST	PASS	PASS	**SATISFACTORY**
LMI2141	VISUAL	BEFORE THE TEST	PASS	PASS	**SATISFACTORY**
		AFTER THE TEST	PASS	PASS	**SATISFACTORY**
	FUNCTIONAL	BEFORE THE TEST	PASS	PASS	**SATISFACTORY**
		AFTER THE TEST	PASS	PASS	**SATISFACTORY**

12. CONCLUSIONS

The overall performance on this **SQ-6087.V5** program from the participant laboratory **HERMON LABORATORIES LTD.**, is **SUFFICIENT** based on expected results.

The criteria used for the evaluation of the overall performance is the following:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX A

INSTRUCTIONS

SOUTH QUALITY
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS

PROGRAM:	Environmental testing - Test Ec: Rough handling shocks, primarily for equipment-type specimens -
CODE:	SQ-6087
VERSION:	5
STANDARD:	IEC 60068-2-31
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

DSQ-012 - REV 06 - SQ-6087.V5 1 de 4

1 - General

This document serves as a guide for managing the results of the **SQ-6087.V5** program.

2 - Standard

IEC 60068-2-31: 2008

3 - Tests involved

TEST
Determination of the resistance of samples to shocks

4 - Samples

CODE	SAMPLE	QUANTITY
LMI2028-05	Battery operated hair clipper Trademark: STARVISION Model: VINTAGE 09	1
LMI2141-08	Battery operated hair clipper Trademark: DINAX Model: CBCL606	1

5 - Notes

a) Being a bilateral program, there is no deadline for submitting results.
b) The participant must submit the results using the usual report employed by their laboratory.
c) Samples must be retained until the end of the program, which concludes with the submission of the final report.
d) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

6 - Test conditions

CODE	PROCEDURE	SPECIFICATION	FALLS	HEIGHT
LMI2028-05	1	IEC 60335-1: 2020 Annex B - Cl. 21.1	5	1 m
LMI2141-08	1	IEC 60335-1: 2020 Annex B - Cl. 21.1	5	1 m

7 - **Parameters to determine**

CODE	PARAMETERS (BEFORE/AFTER)
LMI2028-05	IEC 60335-1: 2020 Annex B - Cl. 21.1
LMI2141-08	IEC 60335-1: 2020 Annex B - Cl. 21.1

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TEST REPORT)

HERMON LABORATORIES

Mechanical Testing 0839.04

Hermon Laboratories
Harakevet Industrial Zone, Binyamina
30500, Israel
Tel. +972-4-6268001
Fax. +972-4-6268277
mail@hermonlabs.com

ENVIRONMENTAL TEST REPORT

Free fall

ACCORDING TO:

IEC 60068-2-31:08 and Document #SQ-6087.V5 Rev 05

FOR:
PT SOUTH QUALITY SAS.

EUT:

1) STARVISION Battery-operated hair clipper,

Model: VINTAGE 09

2) DINAX Battery operated hair clipper

Model: CBCL606

Document ID: SOUENV_IEC.Drop

Date of issue: 14-Jul-25

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1. Applicant Information

Client Name	PT SOUTH QUALITY SAS
Address	Pereja 3961 - Villa Devoto (C1419gvg); Ciudad Autónoma De Buenos Aires - Argentina
Telephone	+54-9-11-2614-6800
E-mail	ecasas@ptsouthquality.com
Contact Name	Lic. Esther Casas lambda

2. Equipment under test attributes

Product name	1) STARVIS ON Battery operated hair clipper 2) DINAX Battery operated hair cl pper
Product type	Industrial
Model	1) VINTAGE 09 2) CBCJ-606
Condition of equipment	Sample
Receipt date	30-Jun-25

3. Manufacturer information

Manufacturer Name	PT SOUTH QUALITY SAS
Address	Pereja 3961 - Villa Devoto (C1419gvg); Ciudad Autónoma De Buenos Aires - Argentina
Telephone	+54-9-11-2614-6800
E-mail	ecasas@ptsouthquality.com
Contact Name	Lic. Esther Casas lambda

4. Test details

Project ID	SQUENV_IEC Drop
Locations	Hermon Laboratories Ltd. P.O. Box 23, Binyamina 3055001, Israel
Testing started	01-Jul-25
Testing completed	01-Jul-25
Test specifications	IEC 60068-2-31:08 and Document #SQ-6087 V5 Rev 05

5. EUT Description

Note: The following data in this clause is provided by the customer and represents his sole responsibility.

5.1. General information

The Equipment Under Test (EUT) is as follows:

1) STARVISION Battery-operated hair clipper, Model: VINTAGE 09

2) DINAX Battery operated hair clipper, Model: CBCJ-606

5.2. Acceptance criteria

The EUT shall not sustain any physical damage or deterioration when subjected to Free fall conditions expected in its application environment.
Before and after the test, the EUT shall function properly.

Following the test, the EUT should be compliant with IEC 60335-1: 2020, Annex R - Cl. 21.1

5.3. EUT visual inspection and functional check

The functional check is performed to verify that the EUT operates properly or within acceptable performance degradation if any.
Before and after Free fall test, the EUT was visually inspected and functionally checked by the HL engineers.

6. Tests summary

Test	Status
IEC 60068-2-31:08 and Document #SQ-6087.V5 Rev 05	
Free fall (STARVISION) test	**Pass**
Free fall (DINAX) test	**Pass**

	Name and title	Date	Signature
Tested by	Mr. Sergey Prud, Environmental Test Engineer	14-Jul-25	
Compiled by	Ms. Tal Alon, Environmental Technical Writer	14-Jul-25	
Reviewed and approved by	Mr. Mihaeli Feldmann, Environmental Group Manager	14 Jul 25	

HERMON LABORATORIES

Test specifiestion:	Free fall (EUT: STARVISION) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-28	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: 1008 hPa
Remarks:			

6.1. Free fall (EUT: STARVISION) test procedure and results

6.1.1. Test purpose

This test was performed to demonstrate the EUT immunity to mechanical shocks which are likely to occur, in the service environment.

6.1.2. Test procedure

6.1.2.1. The EUT (with fully charged battery) was raised to a height of 1000 mm and subjected to free falls onto a 20 mm steel impact surface, as presented in Photographs from 6.1.1 to 6.1.5.

6.1.2.2. The EUT was dropped for a total of 6 times.

6.1.2.3. A visual inspection and functional checks were performed after the free fall test as presented in Photograph 6.1.6

6.1.3. Test results

Table 6.1.1 Test results

Observation	Verdict
No structural or mechanical damages were registered during the visual inspection. The units properly functioned before and after test. The EUT is compliant with IEC 60335-1: 2020 Annex B - CL 21.1 as follows: Not catch fire, leak fluid noticed at external visual inspection. No batteries damages, fire or leak of fluic noticed.	Pass

Reference numbers of test equipment used:
HL 3220, HL 8291, HL 7619

Full description is given in Appendix A

HERMON LABORATORIES

Test specifiestion:	Free fall (EUT: STARVISION) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-28	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: 1008 hPa
Remarks:			

6.1.1 The free fall test (Drop #1)

HERMON LABORATORIES

Test specifiestion:	Free fall (EUT: STARVISION) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-28	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: 1008 hPa
Remarks:			

6.1.2 The free fall test (Drop #2)

HERMON LABORATORIES

Test specifiestion:	Free fall (EUT: STARVISION) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-28	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: 1008 hPa
Remarks:			

Photograph 6.1.3 The free fall test (Drop #3)

HERMON LABORATORIES

Test specifiestion:	**Free fall (EUT: STARVISION) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec: Topple		
Test mode:	Comp. # 08	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

Photograph 6.1.4 The free fall test (Drop #4)

HERMON LABORATORIES

Test specifiestion:	**Free fall (EUT: STARVISION) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec: Topple		
Test mode:	Comp. # 08	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

Photograph 6.1.5 The free fall test (Drop #5)

HERMON LABORATORIES

Test specifiestion:	**Free fall (EUT: STARVISION) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec: Topple		
Test mode:	Comp. # 08	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

Photograph 6.1.6 The EUT visual inspection after free fall test

HERMON LABORATORIES

Test specifiestion:	**Free fall (EUT: DINAX) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec: Topple		
Test mode:	Comp. # 08	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

6.2. Free fall (EUT: DINAX) test procedure and results

6.2.1. Test purpose

This test was performed to demonstrate the EUT immunity to mechanical shocks which are likely to occur, in the service environment.

6.2.2. Test procedure

6.2.2.1. The EUT (with fully charged battery) was raised to a height of 1000 mm and subjected to free falls onto a 20 mm steel impact surface, as presented in Photographs from 6.2.4 to 6.2.5.

6.2.2.2. The EUT was dropped for a total of 5 times.

6.2.2.3. A visual inspection and functional checks were performed after the free fall test, as presented in Photograph 6.2.6

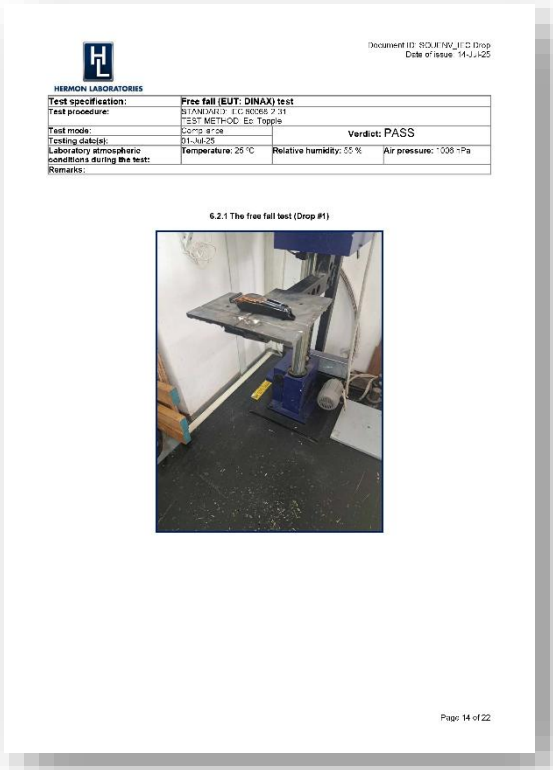
6.2.3. Test results

Table 6.2.1 Test results

Observation	Verdict
No structural or mechanical damages were registered during the visual inspection. The units properly functioned before and after test. Not catch fire, leak / old noticed at external visual inspection. No batteries damages, fire or leak of fluid noticed.	Pass

Reference numbers of test equipment used:
HL 3229, HL 4791, HL 4016

Full description is given in Appendix A



HERMON LABORATORIES

Document ID: SQUINV_IEC Drop
Date of issue: 14-Jul-25

Test specifiestion:	Free fall (EUT: DINAX) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-08	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: ~1008 hPa
Remarks:			

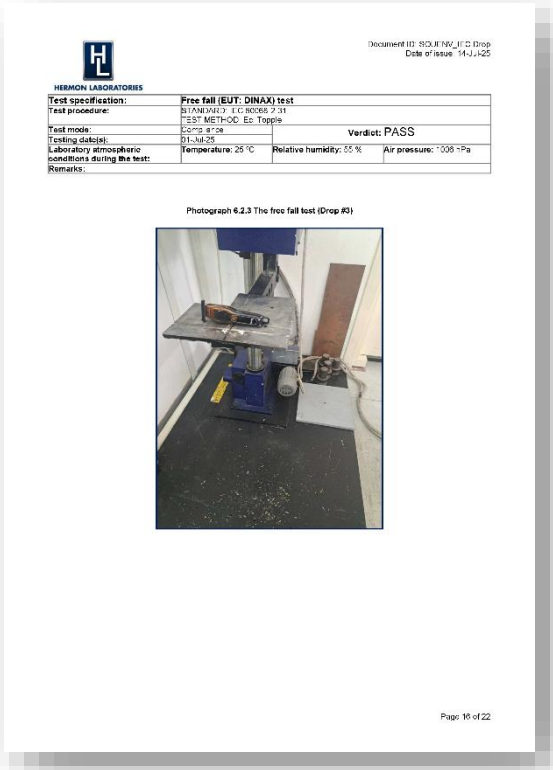
6.2.1 The free fall test (Drop #1)

HERMON LABORATORIES

Document ID: SQUINV_IEC Drop
Date of issue: 14-Jul-25

Test specifiestion:	Free fall (EUT: DINAX) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-08	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: ~1008 hPa
Remarks:			

6.2.2 The free fall test (Drop #2)

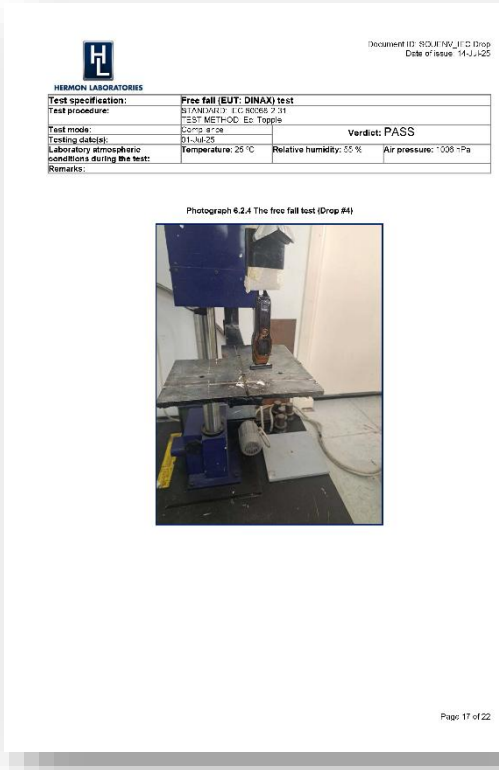


HERMON LABORATORIES

Document ID: SQUINV_IEC Drop
Date of issue: 14-Jul-25

Test specifiestion:	Free fall (EUT: DINAX) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-08	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: ~1008 hPa
Remarks:			

Photograph 6.2.3 The free fall test (Drop #3)



HERMON LABORATORIES

Document ID: SQUINV_IEC Drop
Date of issue: 14-Jul-25

Test specifiestion:	Free fall (EUT: DINAX) test		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1-08	Verdict: PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	Temperature: 26 °C	Relative humidity: 55 %	Air pressure: ~1008 hPa
Remarks:			

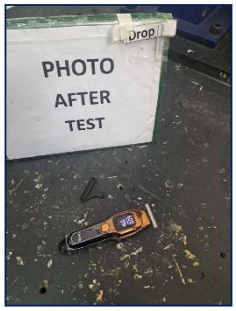
Photograph 6.2.4 The free fall test (Drop #4)

Test specification:	**Free fall (EUT: DINAX) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1 on	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

Photograph 6.2.5 The free fall test (Drop #6)

Test specification:	**Free fall (EUT: DINAX) test**		
Test procedure:	STANDARD: IEC 60068-2-31 TEST METHOD: Ec Topple		
Test mode:	Config #1 on	**Verdict:** PASS	
Testing date(s):	01-Jul-25		
Laboratory atmospheric conditions during the test:	**Temperature:** 25 °C	**Relative humidity:** 55 %	**Air pressure:** 1008 hPa
Remarks:			

Photograph 6.2.6 The EUT visual inspection after free fall test



7. APPENDIX A Test equipment and ancillaries used for tests

Code	Description	Manufacturer	Model	Serial no	Last calibration	Due calibration
HL 3220	Drop Tester	ETS Solutions	ETS-6315	SH13706036	18-Sep-23	18-Sep-25
HL 8291	Measuring tape	STANLEY	0-30-097	N/A	29-May-25	29-May-26
HL 4019	Temp. & Humidity Meter, (-50 ~ 70) deg, (20 ~ 99)% RH	Mastech Electronics	HTC-1	NA	11-Jul-24	11-Jul-26

8. APPENDIX B Test laboratory description

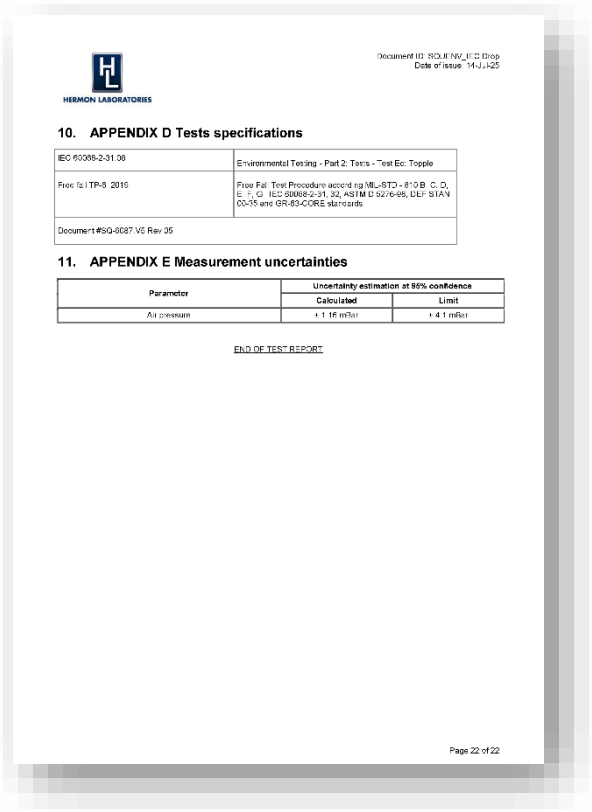
The tests were performed at Hermon Laboratories Ltd., which is a fully independent, private Environmental, EMC, Radio Product safety and telecommunication testing facility recognized through the entire world. The Laboratory is accredited by American Association for Laboratory Accreditation (A2LA, USA) for Environmental testing (Certificate No. 0839.04 Mechanical testing).

Address: P.O. Box 23, Binyamina 3056001, Israel.
Telephone: +972-46288001
Fax: +972-46768277
e-mail: mail@hermonlabs.com
website: www.hermonlabs.com

Person for contact: Mr. Mihael Feldmann, Environmental group manager.

9. APPENDIX C Abbreviations and acronyms

°C	degree Celsius
cm	centimeter
dB	decibel
EUT	equipment under test
gn	acceleration due to gravity
HL	Hermon Laboratories
hPa	hectopascal
Hz	Hertz
kg	kilogram
m	meter
min	minute
ms	millisecond
oct	octave
pH	acidity scale
RH	relative humidity
RMS	root mean square
s	second



HERMON LABORATORIES

Document ID: SQUF/NV_IEC Drop
Date of issue: 14-JUN-25

10. APPENDIX D Tests specifications

IEC 60068-2-31:08	Environmental Testing - Part 2: Tests - Test Ec: Topple
Free fall TP-8 :2019	Free Fall Test Procedure according MIL-STD - 810 B, C, D, E, F, G, IEC 60068-2-31, 32, ASTM D 5276-98, DEF STAN 00-35 and GR-63-CORE standards
Document #SQ-6087.V5 Rev 05	

11. APPENDIX E Measurement uncertainties

Parameter	Uncertainty estimation at 95% confidence	
	Calculated	Limit
Air pressure	± 1.16 mBar	± 4.1 mBar

END OF TEST REPORT

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----- END OF REPORT -----