



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MOTOROLA SOLUTIONS INC., LAWRENCEVILLE ENERGY SYSTEMS  
SAFETY & TEST LABORATORY (ESS&T)  
1700 Belle Meade Ct.  
Lawrenceville, GA 30043  
Mrs. Stephanie Jones Phone: 770 338 3485

ELECTRICAL

Valid to: February 28, 2021

Certificate Number: 2518.06

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following product safety tests on batteries, IT equipment, and consumer electronics:

<u>Test Technology:</u>	<u>Test Method(s):</u>
Altitude Simulation Temperature Cycling Mechanical Shock Vibration Short Circuit Overcharge Impact/Crush Forced Discharge Drop Transport IATA Drop	United Nations Document ST/SG/AC.10/11, Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria; IEC 62281 – Safety of Primary and Secondary Lithium Cells and Batteries During Transport;  United Nations Document ST/SG/AC.10/1, Recommendation of the Transport of Dangerous Goods Model Regulations Special Provision 188

<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
Input Current Access to Energized Parts Limited Power Source Dielectric Testing Humidity Conditioning Thermal Cycling Steady Force Impact Drop Test Stress Relief Test Batteries (consisting of the following tests): Overcharge Rapid Discharge Reverse Discharge Maximum Temperatures Simulated Faults and Abnormal Conditions Touch Current Wall or Ceiling Mounted Equipment	AS/NZS 60950.1; EN 60950-1; IEC 60950-1; UL 60950-1; EN 62368-1; IEC 62368-1; UL 62368-1;
Discharge Performance at 20 °C (Rated Capacity) Discharge Performance at -20 °C High Rate Discharge Performance at 20 °C Charge (Capacity) Retention and Recovery Charge (Capacity) Recovery After Long-term Storage Endurance in Cycles Measurement of the Internal A.C./D.C. Resistance Rated Capacity ESD	IEC 61960
Continuous Low-Rate Charging Vibration Molded Case Stress at High Ambient Temperature Temperature Cycling Incorrect Installation of a Cell (Nickel Systems Only) External Short Circuit Free Fall Mechanical Shock Thermal Abuse Low Pressure Overcharge for Nickel Systems Overcharge for Lithium Systems Forced Discharge Crush Transport Forced Internal Short	GOST R IEC 62133; IEC 62133; IEC 62133-1; IEC 62133-2; EN 62133; EN 62133-1; EN 62133-2; K 62133; JIS C 8712; JIS C 8714

<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
California Energy Commission / US Department of Energy	10 CFR Section 430.23 (aa) Appendix Y to Subpart B of Part 430; 10 CFR Section 430.23 (aa) Appendix Y to Subpart B of Part 430 (as it appeared in the Code of Federal Regulations on January 01, 2016)
Natural Resources Canada (NRCan)	CAN/CSA-C381.2-17
Ecodesign- Standby and Off Mode	EN 50564

WITHDRAWN





## *Accredited Laboratory*

A2LA has accredited

# **MOTOROLA SOLUTIONS INC., LAWRENCEVILLE ENERGY SYSTEMS SAFETY & TEST LABORATORY (ESS&T)**

*Lawrenceville, GA*

for technical competence in the field of

## **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 3<sup>rd</sup> day of May 2019.

A blue ink signature of a person, written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2518.06  
Valid to February 28, 2021

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*