SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY - MELBOURNE
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ELECTRICAL

Valid To: February 28, 2027 Certificate Number: 7039.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following tests on the following types of products: Aircraft components, automotive components, wiring harnesses, subassemblies, electronic devices for the Aircraft, Aerospace, Military, Automotive, Medical, and Electronics industries.

For the following types of industries: Aircraft, Aerospace, Automotive, Medical, Defense and Electronics industries.

Test Description:	**Tests Method(s) [1]:**
Power Quality Test[2]	RTCA/DO-160, Section 16; MIL-STD-704; MIL-STD-1275
Conducted Susceptibility, Transient	MIL-STD-461, Method CS106; MIL-STD-461, Method CS115; MIL-STD-461, Method CS116; RTCA/DO-160, Section 17; AIRBUS ABD0100.1.2, Section 3.4; BOEING D6-16050-4, Section 7.5; BOEING D6-16050-5, Section 7.5; BOEING D6-16050-6, Section 7.5
Electrostatic Discharge (ESD)	RTCA/DO-160, Section 25; MIL-STD-461, Method CS118; AIRBUS ABD0100.1.2, Section 3.5; BOEING D6-16050-4, Section 7.1; BOEING D6-16050-5, Section 7.1; BOEING D6-16050-6, Section 7.1; ISO 10605; SAE J1113-13
Conducted Susceptibility, Audio Frequency[2]	MIL-STD-461, Method CS101; MIL-STD-461, Method CS109; SAE J1113-2:1996-09; RTCA/DO-160, Sections 18 and 19; AIRBUS ABD0100.1.2, Section 3.4

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Test Description:	**Tests Method(s) [1]:**
Conducted Susceptibility, Radio Frequency[2]	MIL-STD-461, Method CS114; RTCA/DO-160, Section 20; AIRBUS ABD0100.1.2, Section 3.3.2; BOEING D6-16050-4, Section 7.3; BOEING D6-16050-5, Section 7.3; BOEING D6-16050-6, Section 7.3
Radiated Susceptibility, Audio Frequency[2]	MIL-STD-461, Method RS101; RTCA/DO-160, Section 19; AIRBUS ABD0100.1.2, Section 3.4; BOEING D6-16050-4, Section 7.2; BOEING D6-16050-5, Section 7.2; BOEING D6-16050-6, Section 7.2
Radiated Susceptibility, Radio Frequency[2]	MIL-STD-461, Method RS103; RTCA/DO-160, Section 20; AIRBUS ABD0100.1.2, Section 3.3; BOEING D6-16050-4, Section 7.3; BOEING D6-16050-5, Section 7.3; BOEING D6-16050-6, Section 7.3
Conducted Emissions, Audio Frequency[2]	MIL-STD-461, Method CE101; BOEING D6-16050-4, Sections 8.3.1 and 8.3.2; BOEING D6-16050-5, Section 8.1.1; BOEING D6-16050-6, Section 8.3
Conducted Emissions, Radio Frequency[2]	MIL-STD-461, Method CE102; RTCA/DO-160, Section 21; AIRBUS ABD0100.1.2, Section 3.4.5; BOEING D6-16050-4, Section 8.4; BOEING D6-16050-5, Section 8.2; BOEING D6-16050-6, Section 8.4
Radiated Emissions, Magnetic Field[2]	MIL-STD-461, Method RE101; RTCA/DO-160, Section 15; AIRBUS ABD0100.1.2, Section 3.4.1
Radiated Emissions, Electric Field[2]	MIL-STD-461, Method RE102; MIL-STD-461, Method RE103; RTCA/DO-160, Section 21; AIRBUS ABD0100.1.2, Section 3.4.5; BOEING D6-16050-4, Section 8.4; BOEING D6-16050-5, Section 8.2; BOEING D6-16050-6, Section 8.4
Radio Disturbances	EN 55025:2017/AC:2017-11; CISPR 25:2016/COR1:2017
RF Immunity – Absorber Lined Shielded Enclosure (ALSE)	ISO 11452-2

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Test Description:	**Tests Method(s) [1]:**
RF Immunity – Bulk Current Injection (BCI)	ISO 11452-4; SAE J1113-4; ISO 11451-2
Immunity to Magnetic Fields	11452-8:2015
Conducted Transient Emission and Immunity	ISO 7637-2:2011
Lightning	RTCA/DO-160, Section 22

[1] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard test method, per Annex A, Part C of A2LA *R101 - General Requirements: Accreditation of Conformity Assessment Bodies.*

[2] Note: This lab is capable of performing current and older versions of MIL-STD-461 (versions A through G) and RTCA/DO-160 (versions A through G) for the methods listed above. The methods listed above on this scope are accredited.

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY - MELBOURNE

Melbourne, FL

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 11th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7039.03
Valid to February 28, 2027

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

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