

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: <u>Aircraft components</u>, <u>automotive components</u>, <u>wiring harnesses</u>, <u>subassemblies</u>, <u>electronic devices for the Aircraft</u>, <u>Aerospace</u>, <u>Military</u>, <u>Automotive</u>, <u>Medical</u>, <u>and Electronics industries</u>.

For the following types of industries: <u>Aircraft, Aerospace, Automotive, Medical, Defense and Electronics</u> 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

(A2LA Cert. No. 7039.03) 02/11/2025

Page 1 of 3

Tests Method(s) 1: **Test Description:**

Conducted Susceptibility, MIL-STD-461, Method CS114;

Radio Frequency² 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, MIL-STD-461, Method RS101;

Audio Frequency² 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, MIL-STD-461, Method RS103; Radio Frequency² 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, MIL-STD-461, Method CE101;

Audio Frequency² 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, MIL-STD-461, Method CE102; Radio Frequency² 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, MIL-STD-461, Method RE101;

Magnetic Field² RTCA/DO-160, Section 15;

AIRBUS ABD0100.1.2, Section 3.4.1

Radiated Emissions, MIL-STD-461, Method RE102;

Electric Field² 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 ISO 11452-2

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Page 2 of 3

Test Description:	<u>Tests Method(s)</u> 1:
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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.



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

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