



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ROCKFORD

3761 South Central Avenue

Rockford, IL 61102

Corey Menken Phone: 815-315-9250

Email: Corey.Menken@element.com Website: www.element.com

ELECTRICAL

Valid To: February 28, 2026

Certificate Number: 214.28

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following tests:

**Test Technology:**

**Test Method(s):**

***Emissions***

Radiated Emissions

EN 55025 (section 6.5);  
MIL-STD-461C;  
MIL-STD-462C;  
MIL-STD-461 (RE101, RE102, RE103);  
MIL-STD-462D (RE101, RE102, RE103) <sup>1</sup>;  
MIL-STD-462 (RE01, RE02) <sup>1</sup>;  
RTCA/DO-160 C, D, E, F, and G, Sections 15 <sup>1</sup> and 21 <sup>1</sup>;  
47 CFR FCC Part 15B (using ANSI C63.4:2014);  
47 CFR FCC Part 18 (using MP-5:1986);  
VCCI V-3 (up to 6GHz);  
EN 55011; CISPR 11; AS CISPR 11; KS C 9811;  
EN 55012; CISPR 12; AS/NZS CISPR 12;  
EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; KS C 9814-1;  
EN 55022; CISPR 22; AS/NZS CISPR 22;  
EN 55032; CISPR 32; AS/NZS CISPR 32; KS C 9832;  
EN/IEC 61000-6-3; EN/IEC 61000-6-4;  
AS/NZS 4268 + A1/A2; AS/NZS 4251-1; AS/NZS 4251-2;  
GB/T 18387:2017

Conducted Emissions <sup>1</sup>

EN 55025 (sections 6.3 and 6.4);  
MIL-STD-461C;  
MIL-STD-462C;  
MIL-STD-461E, F, and G (CE101, CE102, CE106);  
MIL-STD-462D (CE101, CE102, CE106);  
MIL-STD-462 (CE01, CE03, CE07);  
RTCA/DO-160 C, D, E, F, and G, Section 21;  
47 CFR FCC Part 15B (using ANSI C63.4:2014);  
47 CFR FCC Part 18 (using MP-5:1986);  
VCCI V-3 (up to 6GHz);  
EN 55011; CISPR 11; AS CISPR 11; KS C 9811;  
EN 55012; CISPR 12; AS/NZS CISPR 12

**Test Technology:****Test Method(s):**

Conducted Emissions <sup>1</sup>  
(continued)

EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; KS C 9814-1;  
EN 55022; CISPR 22; AS/NZS CISPR 22;  
EN 55032; CISPR 32; AS/NZS CISPR 32; KS C 9832;  
EN/IEC 61000-6-3; EN/IEC 61000-6-4;  
AS/NZS 4268 + A1/A2;  
AS/NZS 4251-1; AS/NZS 4251-2AS/NZS 4250-1; AS/NZS 4250-2;  
CISPR 16-2-1: 2014 +A1:2017

**Immunity**

Electrostatic Discharge (ESD) <sup>1</sup>

EN/IEC 61000-4-2; AS/NZS 61000.4.2; KS C 9610-4-2;  
RTCA/DO-160 C, D, E, F, and G, Section 25;  
MIL-STD-1686C;  
MIL-STD-461G (CS118)

Electrical Fast Transient/Burst <sup>1</sup>

EN/IEC 61000-4-4; AS/NZS 61000.4.4; KS C 9610-4-4

Surge Immunity <sup>1</sup>

EN/IEC 61000-4-5; AS/NZS 61000.4.5; KS C 9610-4-5;  
IEEE C62-41IEEE C62.41.1; IEEE C62.42.2

Radiated <sup>1</sup>

EN/IEC 61000-4-3; AS/NZS 61000.4.3; KS C 9610-4-3;  
MIL-STD-461E, F, and G (RS101, RS103, RS105);  
MIL-STD-462D (RS101, RS103);  
MIL-STD-462 (RS01, RS02, RS03);  
MIL-STD-461C;  
MIL-STD-462C;  
RTCA/DO-160 C, D, E, F, and G, Section 20

Conducted <sup>1</sup>

EN/IEC 61000-4-6; AS/NZS 61000.4.6; KS C 9610-4-6;  
MIL-STD-461E, F, and G (CS103, CS104, CS105, CS109, CS114,  
CS115, CS116);  
MIL-STD-461C;  
MIL-STD-462C;  
MIL-STD-462D (CS103, CS104, CS105, CS109, CS114, CS115,  
CS116);  
MIL-STD-462 (CS01, CS02, CS06);  
RTCA/DO-160 C, D, E, F, and G, Section 20

Power Frequency Magnetic  
Field <sup>1</sup>

EN/IEC 61000-4-8;  
AS/NZS 61000.4.8;  
KS C 9610-4-8;  
RTCA/DO-160 C, D, E, F, G, Section 15;  
MIL-STD-461D, E, F, G, (RS101); MIL-STD-462 (RS01);  
MIL-STD-461C;  
MIL-STD-462C

Voltage Dips/Interrupts and  
Variations <sup>1</sup>

EN/IEC 61000-4-11; AS/NZS 61000.4.11; KS C 9610-4-11

Voltage Spike <sup>1</sup>

RTCA/DO-160 C, D, E, F, and G, Section 17;  
MIL-STD-461F (CS106)

Power Input <sup>1</sup>

RTCA/DO-160 C, D, E, F, and G, Section 16;  
MIL-STD-704A, B, C, D, E, and F

**Test Technology:****Test Method(s):**Audio Frequency Conducted Susceptibility <sup>1</sup>RTCA/DO-160 C, D, E, F, and G, Section 18;  
MIL-STD-461D, E, F, and G (CS101); MIL-STD-462 (CS01);  
MIL-STD-461C;  
MIL-STD-462CInduced Signal Susceptibility <sup>1</sup>

RTCA/DO-160 C, D, E, F, and G, Section 19

Lightning Induced Transient <sup>1</sup>RTCA/DO-160 C, D, E, F, and G, Section 22;  
MIL-STD-461G (CS117)***Automotive***

Radiated &amp; Conducted Emissions

CISPR 25 for RE (2016, 2021) Section 6.5;  
CISPR 25 for CE (2016, 2021) Sections 6.3 and 6.4; EN 55025;  
GB/T 18387:2017;  
GB/T 34660: 2017;  
(The United Nations Economic Commission for Europe (UNECE)):  
ECE Regulation 10

ESD

ISO 10605; ISO 10605: 2008

Bulk Current Injection (BCI)

ISO 11451-1; ISO 11452-4

Immunity of vehicles to electromagnetic disturbances from on-board transmitters

ISO 11451-3

Portable Transmitters

ISO 11452-9

Electric vehicle conductive charging system

IEC 61851-21-1

***Generic and Product Family Standards***EN/IEC 61000-6-1; AS/NZS 61000.6.1;  
EN/IEC 61000-6-2; AS/NZS 61000.6.2;  
CISPR 14-2; EN 55014-2; AS/NZS CISPR 14-2;  
CISPR 24; EN 55024; AS/NZS CISPR 24; KS C 9824; CISPR 35  
(excluding Annex A-H); EN 55035 (excluding Annex A-H);  
AS/NZS CISPR 35 ;  
KS C 9835 (excluding Annex A-H);  
BS EN/IEC 60601-1-2; BS EN/IEC 60947-1; BS EN/IEC 60439-1;  
BS EN/IEC 61326-1; BS EN/IEC 61326-2;  
BS EN 50130-4; BS EN 50131-1;  
EN 61800-3; IEC 61800-3 (up to 75A, 1000V);  
CISPR 15: 2018;  
CISPR 16-1-1: 2019;  
IEC 61851-21-1:2017**On the following product types:**

Aerospace, Defense, Telecommunications, Electrical, Electronics, Automotive, and Commercial.

<sup>1</sup> This laboratory performs field testing activities for the noted tests.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.<sup>2</sup>:

| <b>Rule Subpart/Technology</b>                                  | <b>Test Method</b>       | <b>Maximum Frequency (MHz)</b> |
|-----------------------------------------------------------------|--------------------------|--------------------------------|
| <u>Unintentional Radiators</u><br>Part 15B                      | ANSI C63.4:2014          | 18000                          |
| <u>Industrial, Scientific, and Medical Equipment</u><br>Part 18 | FCC MP-5 (February 1986) | 18000                          |

<sup>2</sup> Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



## Accredited Laboratory

A2LA has accredited

### ELEMENT MATERIALS TECHNOLOGY ROCKFORD

Rockford, IL

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 19<sup>th</sup> day of March 2024.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 214.28  
Valid to February 28, 2026

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