



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER

7780 Technology Drive

Melbourne, FL 32904

Sandra Frank Phone: 561 529 1488

sandra.frank@element.com

ELECTRICAL

Valid To: February 28, 2021

Certificate Number: 1720.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above to perform the following tests on the following types of products and materials: Aerospace components, Military equipment, Nuclear equipment, Commercial and Automotive components.

Test Description:

Tests Method(s):

Magnetic Effect

Airbus 2520M1F001200;
Airbus ABD0100.1.2;
RTCA/DO-160A/B/C/D/E/F/G, Section 15

Power Inputs

Airbus 2520M1F001200;
RTCA/DO-160A/B/C/D/E/F/G, Section 16

Power Consumption

Airbus 2520M1F001200

Voltage Spikes

Airbus 2520M1F001200;
Airbus ABD0100.1.2;
RTCA/DO-160A/B/C/D/E/F/G, Section 17

Electrostatic Discharge (ESD)

Airbus 2520M1F001200;
Airbus ABD0100.1.2;
RTCA/DO-160A/B/C/D/E/F/G, Section 25

Grounding/Bonding

Airbus ABD0100.1.8.1;
MIL-STD-464A/B/C;

Power Characteristics

MIL-STD-1275A/B/C/D/E;
MIL-HDBK-704-1/2/3/4/5/6/7/8

Ground Plane Interference

EMSD-ITP-89-02:1988

Shielding Effectiveness

IEEE Std. 299:1969, IEEE Std. 299:1996,
IEEE Std. 299:1997, IEEE Std. 299:2006;
MIL-STD-188-125-1, MIL-STD-188-125-2;
MIL-STD-285

Test Description:

Tests Method(s):

Conducted Immunity (30 Hz – 250 kHz)

SAE J1113-2:1996-09

Susceptibility

Audio Frequency, Induced Signal, Radiated,
and Conducted[†]

Airbus 2520M1F001200;
Airbus ABD0100.1.2;
RTCA/DO-160, Sections 18, 19, and 20;
MIL-STD-461A/B/C, Methods CS01, CS02, CS06,
CS09, CS11, RS01, RS02, RS03, and RS06;
MIL-STD-461D, Methods CS101, CS109, CS114,
CS115, CS116, RS101, and RS103;
MIL-STD-461E/F/G, Methods CS101, CS106,
CS109, CS114, CS115, CS116, RS101 and
RS103;
USNRC Regulatory Guide 1.180, Revision 1

Emissions

Radiated and Conducted

Airbus 2520M1F001200;
Airbus ABD0100.1.2;
RTCA/DO-160, Section 21;
MIL-STD-461A/B/C, Methods CE01, CE02,
CE03, CE04, CE06, CE07, RE01, RE02, and
RE03;
MIL-STD-461D/E/F/G, Methods CE101, CE102,
CE106, RE101, RE102, and RE103;
USNRC Regulatory Guide 1.180, Revision 1





Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY - JUPITER

Jupiter, 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 16th day of April 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1720.03
Valid to February 28, 2021

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