

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Elite Electronic Engineering Inc.

1516 Centre Circle
Downers Grove, IL 60515-1082
Kevin Halpin
Phone: 630.495.9770 x111
Email: khalpin@elitetest.com
<http://www.elitetest.com>

**ELECTROMAGNETIC COMPATIBILITY &
TELECOMMUNICATIONS**

NVLAP LAB CODE 100278-0

Emissions

Designation

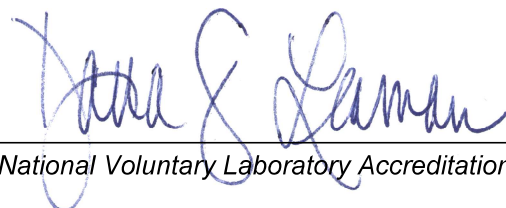
Additional Test Location(s)

Description

Address(es)

West Annex, 1524 Centre Circle, Downers Grove, IL 60515 (Immunity, Conducted Susceptibility, MIL-STD-461E/F/G RS101, MIL-STD-1399 Sec 070)

RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency Energy
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emissions of Radio Frequency Energy
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.3: RF Emissions, Conducted
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.3: RF Emissions, Conducted
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.4: RF Emissions, Radiated



For the National Voluntary Laboratory Accreditation Program

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.4: RF Emissions, Conducted
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.4: RF Emissions, Conducted
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.5: RF Emissions, Radiated
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.5: RF Emissions, Radiated

Immunity

Designation

Description

RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effects
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effects
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spike
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spike
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spikes
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spikes

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20: Radio Frequency Susceptibility (Radiated and Conducted)
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20: Radio Frequency Susceptibility (Radiated and Conducted)
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.4: RF Susceptibility, Conducted
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.4: RF Susceptibility, Conducted
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.5: RF Susceptibility, Radiated
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.5: RF Susceptibility, Radiated
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.6: Radio Frequency Susceptibility (Radiated Mode Tuned)
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.6: RF Susceptibility (Radiated Mode Tuned)
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.6: RF Susceptibility (Mode-Stirred)
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)

MIL-STD

Designation

MIL-STD-1399 Section 070

Description

Interface standard for shipboard systems, Section 070 - Part 1- DC Magnetic Field Environment

MIL-STD: Conducted Emissions

Designation

MIL-STD-461G, CE101

Description

Conducted Emissions, Power Leads, 30 Hz to 10 kHz

MIL-STD-461E, CE101

Conducted Emissions, Power Leads, 30 Hz to 10 kHz

MIL-STD-461F, CE101

Conducted Emissions, Power Leads, 30 Hz to 10 kHz

MIL-STD-461G, CE102

Conducted Emissions, Power Leads, 10 kHz to 10 MHz

MIL-STD-461E, CE102

Conducted Emissions, Power Leads, 10 kHz to 10 MHz

MIL-STD-461F, CE102

Conducted Emissions, Power Leads, 10 kHz to 10 MHz

MIL-STD-461E, CE106

Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz

MIL-STD-461F, CE106

Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz

MIL-STD-462, CE01

Conducted Emissions, Power and Interconnecting Leads, Low Frequency (up to 15 kHz)

MIL-STD-462, CE02

Conducted Emission, 30 Hz to 20 kHz, Control and Signal Leads

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

MIL-STD-462, CE03	Conducted Emissions, Power and Interconnecting Leads, 0.015 to 50 MHz
MIL-STD-462, CE04	Conducted Emissions, Control and Signal Leads, 20 Hz to 50 kHz
MIL-STD-462, CE06	Conducted Emissions, Antenna Terminals 10 kHz to 26 GHz
MIL-STD-462, CE07	Conducted Emissions, Power Leads, Spikes, Time Domain
MIL-STD-462D, CE101	Conducted Emissions, Power Leads, 30 Hz to 10 kHz
MIL-STD-462D, CE102	Conducted Emissions, Power Leads, 10 kHz to 10 MHz
MIL-STD-462D, CE106	Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz

MIL-STD: Conducted Susceptibility

Designation

Description

MIL-STD-461G, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461E, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461F, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461G, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461E, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461F, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461G, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461E, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461F, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461G, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461E, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461F, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461F, CS106	Conducted Susceptibility, Transients, Power Leads
MIL-STD-461E, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz
MIL-STD-461F, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz
MIL-STD-461G, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

MIL-STD-461E, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
MIL-STD-461F, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
MIL-STD-461G, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461E, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461F, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461G, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461E, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461F, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461G, CS117	Conducted Susceptibility, Lightning Induced Transients, Cables and Power Leads
MIL-STD-461G, CS118	Personnel Borne Electrostatic Discharge (ESD)
MIL-STD-462, CS01	Conducted Susceptibility, Power Leads, 30 Hz to 50 kHz
MIL-STD-462, CS02	Conducted Susceptibility, Power Leads, 0.05 to 400 MHz
MIL-STD-462 Method CS03/CS04/ CS05	Conducted Susceptibility, Intermodulation, Cross-modulation
MIL-STD-462, CS06	Conducted Susceptibility, Spikes, Power Leads
MIL-STD-462, CS09	Conducted Susceptibility, Structure (Common Mode) Current, 60 Hz to 100 kHz
MIL-STD-462, CS10	Conducted Susceptibility, Damped Sinusoidal Transients, Pins and Terminals, 10 kHz to 100 MHz
MIL-STD-462, CS11	Conducted Susceptibility, Damped, Sinusoidal Transients, Cable, 10 kHz to 100 MHz
MIL-STD-462, CS12	Conducted Susceptibility, Common-mode cable current pulse, interconnecting power
MIL-STD-462, CS13	Conducted Susceptibility, Single Wire coupled pulse
MIL-STD-462D, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 50 kHz
MIL-STD-462D, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-462D, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-462D, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

MIL-STD-462D, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz
MIL-STD-462D, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 400 MHz
MIL-STD-462D, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-462D, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz

MIL-STD: Radiated Emissions

<u>Designation</u>	<u>Description</u>
MIL-STD-461G, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461E, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461F, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461G, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461E, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461F, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461G, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-461E, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-461F, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-462, RE01	Radiated Emissions, Magnetic Field, 0.03 to 50 kHz
MIL-STD-462, RE02	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-462, RE03	Radiated Emissions, Spurious and Harmonics, Radiated Technique
MIL-STD-462D, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-462D, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-462D, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz

MIL-STD: Radiated Susceptibility

<u>Designation</u>	<u>Description</u>
MIL-STD-461G, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461E, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100278-0

MIL-STD-461F, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461G, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461E, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461F, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461G, RS105	Radiated Susceptibility, Transient Electromagnetic Field
MIL-STD-461E, RS105	Radiated Susceptibility, Transient Electromagnetic Field
MIL-STD-461F, RS105	Radiated Susceptibility, Transient Electromagnetic Field
MIL-STD-462, RS01	Radiated Susceptibility, Magnetic Field, 0.03 to 50 kHz
MIL-STD-462, RS02	Radiated Susceptibility, Magnetic and Electric Fields, Spikes and Power Frequencies
MIL-STD-462, RS03	Radiated Susceptibility, Electric Field, 14 kHz to 40 GHz (Consult laboratory for field strengths available)
MIL-STD-462, RS03	Radiated Susceptibility, Electric Field, 14 kHz to 40 GHz, employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
MIL-STD-462 RS06	Radiated Susceptibility, Electromagnetic Field, Switching Pulses (Chattering Relay)
MIL-STD-462D, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-462D, RS103	Radiated Susceptibility, Electric Field, 10 kHz to 40 GHz