



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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**ELECTROMAGNETIC
COMPATIBILITY &
TELECOMMUNICATIONS**

NVLAP LAB CODE 100280-0

Emissions

Designation

Description

IEC/CISPR 25, 2nd ed. (2002-08)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement: Sections 6.2, 6.3, 6.4, & 6.5
IEC/CISPR 25, Ed. 3.0 (2008-03)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement
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



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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

ISO 10605, First Edition
(2001-12-15)

ISO 10605 (2008)

ISO 10605 (2001) using DC-10614

ISO 10605 (2001) using Ford ES-
XW7T-1A278-AC

ISO 10605 (2001) using GMW3097

ISO 11451-2 (2005)

ISO 11451-4 (2006)

ISO 11452-1 (2005)

ISO 11452-2 (2004)

ISO 11452-3 (2001)

ISO 11452-4 (2001)

ISO 11452-4 (2005)

ISO 11452-4 (2011)

Description

Road vehicles - Test methods for electrical disturbances from electrostatic discharge.

Road vehicles -- Test methods for electrical disturbances from electrostatic discharge

Road vehicles - Test methods for electrical disturbances from electrostatic discharge using
Daimler Chrysler DC-10614

Road vehicles - Test methods for electrical disturbances from electrostatic discharge, First
Ed., 2001-12-15 using Ford ES-XW7T-1A278-AC

Road vehicles - Test methods for electrical disturbances from electrostatic discharge using
General Motors GMW3097

Road vehicles -- Vehicle test methods for electrical disturbances from narrowband
radiated electromagnetic energy -- Part 2: Off-vehicle radiation sources

Road vehicles -- Vehicle test methods for electrical disturbances from narrowband
radiated electromagnetic energy -- Part 4: Bulk current injection (BCI)

Road vehicles -- Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy -- Part 1: General principles and terminology

Road vehicles -- Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy -- Part 2: Absorber-lined shielded enclosure

Road vehicles -- Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy -- Part 3: Transverse electromagnetic mode (TEM) cell

Road vehicles - Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy - Part 4: Bulk current injection (BCI)

Road vehicles - Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy - Part 4: Bulk current injection (BCI)

Road vehicles - Component test methods for electrical disturbances from narrowband
radiated electromagnetic energy - Part 4: Harness excitation methods



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ISO 11452-5 (2002)	Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 5: Stripline
ISO 11452-11:2010	Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 11: Reverberation chamber
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
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-160C (1989)	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 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-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spike
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
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs



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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-160C (1989)	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 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-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20: Radio Frequency Susceptibility (Radiated and Conducted)
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)



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Table with 2 columns: Standard Reference (e.g., RTCA/DO-160G (2010)) and Description (e.g., Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.6: RF Susceptibility (Mode-Stirred))

MIL-STD

Designation

Description

Table with 2 columns: Designation (e.g., MIL-STD-1399 Section 070) and Description (e.g., Interface standard for shipboard systems, Section 070 - Part 1- DC Magnetic Field Environment)

<i>DEF-STAN 59-41 Part 3, DCS01</i>	<i>Conducted Susceptibility, Primary Power Lines</i>
<i>DEF-STAN 59-41 Part 3, DCS02</i>	<i>Conducted Susceptibility, Primary Control and Signal Lines</i>
<i>DEF-STAN 59-41 Part 3, DCS03</i>	<i>Conducted Susceptibility, Control and Signal Lines</i>
<i>DEF-STAN 59-41 Part 3, DCS04</i>	<i>Imported Transient Susceptibility</i>
<i>DEF-STAN 59-41 Part 3, DCS05</i>	<i>Externally Generated Transients</i>
<i>DEF-STAN 59-41 Part 3, DCS06</i>	<i>Imported Long Transients Susceptibility AC/DC Systems</i>
<i>DEF-STAN 59-41 Part 3, DCS07</i>	<i>Imported Short Transient Susceptibility (Land Service)</i>
<i>DEF-STAN 59-41 Part 3, DCS08</i>	<i>Externally Generated Transients (Aircraft)</i>
<i>DEF-STAN 59-41 Part 3, DCS09</i>	<i>Imported Lightning Transients Susceptibility (Aircraft)</i>
<i>DEF-STAN 59-41 Part 3, DCS10</i>	<i>Electrostatic Discharge (Aircraft)</i>
<i>DEF-STAN 59-41 Part 3, DCS11</i>	<i>Imported Long Transient Susceptibility - Power Lines (Sea Systems)</i>
<i>DEF-STAN 59-41 Part 3, DCS12</i>	<i>Low Frequency Transient Susceptibility - Power Lines (Sea Systems)</i>
<i>DEF-STAN 59-41 Part 3, DRE01</i>	<i>Radiated Emissions E Field</i>
<i>DEF-STAN 59-41 Part 3, DRE02</i>	<i>H Field Radiation</i>
<i>DEF-STAN 59-41 Part 3, DRE03</i>	<i>Radiated Emissions Installed Antenna</i>
<i>DEF-STAN 59-41 Part 3, DRS01</i>	<i>H Field Susceptibility</i>
<i>DEF-STAN 59-41 Part 3, DRS02</i>	<i>E Field Susceptibility</i>

MIL-STD: Conducted Emissions

Designation

Description



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Table with 2 columns: Standard ID (e.g., MIL-STD-461 E-G, CE101) and Description (e.g., Conducted Emissions, Power Leads, 30 Hz to 10 kHz)

MIL-STD: Conducted Susceptibility

Table with 2 columns: Designation (e.g., MIL-STD-461 E-G, CS101) and Description (e.g., Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz)



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

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Table with 2 columns: Standard Reference (e.g., MIL-STD-462, CS02) and Description (e.g., Conducted Susceptibility, Power Leads, 0.05 to 400 MHz)

MIL-STD: Radiated Emissions

Table with 2 columns: Designation (e.g., MIL-STD-461 E-G, RE101) and Description (e.g., Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz)



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MIL-STD: Radiated Susceptibility

<u><i>Designation</i></u>	<u><i>Description</i></u>
MIL-STD-461 E-G, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461 E-G, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461 E-G, 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, RS05	Radiated Susceptibility, Electromagnetic Pulse Field Transient
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
MIL-STD-462D, RS105	Radiated Susceptibility, Transient Electromagnetic Field