

**The Appendix is an integral part of  
Certificate of Accreditation No: 418/2023 of 07/08/2023**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**UNIS, a.s.**  
CAB number 1706, VTP UNIS Testing Laboratory  
Sochorova 3232/34, 616 00 Brno-Žabovřesky

*Detailed information on activities within the scope of accreditation (source literature) is given in the section „Specification of the scope of accreditation“.*

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
<b>1</b>	<b>Electromagnetic compatibility tests</b>			
1.1	Electrostatic discharge – immunity test	ČSN EN 61000-4-2; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.2	Electrostatic discharge – immunity test	ČSN EN 61000-4-2; ISO 10605	Vehicle subassemblies	-
1.3	Radiated electromagnetic field - immunity test	ČSN EN IEC 61000-4-3; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.4	Radiated electromagnetic field - immunity test	ISO 11452-1; ISO 11452-2	Vehicle subassemblies	-
1.5	Radio-frequency susceptibility - immunity test	RTCA/DO160G, S20	Airborne equipment	-
1.6	Conducted disturbances, induced by radio-frequency fields - immunity test	ČSN EN 61000-4-6; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.7	Conducted disturbances, induced by radio-frequency fields - immunity test	ISO 11452-1; ISO 11452-4	Vehicle subassemblies	-
1.8	Conducted susceptibility, bulk cable injection – immunity test	MIL-STD-461G, CS114	Military subsystems and equipment	-
1.9	Measurement of terminal voltage disturbance/ measurement of current disturbance	ČSN EN 55011; ČSN EN 55032; ČSN EN 55016-2-1, cl. 7; ČSN EN IEC 61000-6-3; ČSN EN IEC 61000-6-4; ČSN EN IEC 61000-6-8	Electrical and electronic equipment	-

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1.10	Measurement of terminal voltage disturbance/ measurement of current disturbance	ČSN EN IEC 55025, cl. 6.3, 6.4	Vehicle subassemblies	-
1.11	Measurement of conducted emission	MIL-STD-461G, CE102	Military subsystems and equipment	-
1.12	Measurement of radiated disturbances	ČSN EN 55011; ČSN EN 55032; ČSN EN 55016-2-3; ČSN EN IEC 61000-6-3; ČSN EN IEC 61000-6-4; ČSN EN IEC 61000-6-8	Electrical and electronic equipment	-
1.13	Measurement of radiated disturbances	ČSN EN IEC 55025, cl. 6.5	Vehicle subassemblies	-
1.14	Measurement of radio-frequency energy emission	RTCA/DO160G, S21	Airborne equipment	-
1.15	Measurement of radiated emission	MIL-STD-461G, RE102	Military subsystems and equipment	-
1.16	Electrical fast transient/burst - immunity test	ČSN EN 61000-4-4; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.17	Surge - immunity test	ČSN EN 61000-4-5; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.18	Voltage dips, short interruptions and voltage variations - immunity test	ČSN EN IEC 61000-4-11; ČSN EN IEC 61000-6-1; ČSN EN IEC 61000-6-2	Electrical and electronic equipment	-
1.19	Measurement of power frequency harmonics	ČSN EN IEC 61000-3-2	Single-phase electrical and electronic equipment up to 10A	-

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1.20	Measurement of voltage changes, voltage fluctuations and flicker	ČSN EN 61000-3-3	Single-phase electrical and electronic equipment up to 10A	-
<b>2</b>	<b>Mechanical vibration and shock tests</b>			
2.1	Sinusoidal vibration test	ČSN EN 60068-2-6	Mechanical, electrical and electronic components, parts and products	-
2.2	Shock test	ČSN EN 60068-2-27	Mechanical, electrical and electronic components, parts and products	-
2.3	Broadband random vibration test	ČSN EN 60068-2-64	Mechanical, electrical and electronic components, parts and products	-
2.4	Combined climatic (temperature/humidity) and dynamic (vibrations/shocks) tests	ČSN EN 60068-2-53	Mechanical, electrical and electronic components, parts and products	-
2.5	Vibrations in mixed mode test	ČSN EN 60068-2-80	Mechanical, electrical and electronic components, parts and products	-
2.6	Resistance test - operational shocks	RTCA/DO160G S7, cl. 7.2	Airborne equipment	-
2.7	Test of resistance to vibrations	RTCA/DO160G S8	Airborne equipment	-

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<b>3</b>	<b>Climatic tests</b>			
3.1	Cold test	ČSN EN 60068-2-1	Mechanical, electrical and electronic components, parts and products	-
3.2	Dry heat test	ČSN EN 60068-2-2	Mechanical, electrical and electronic components, parts and products	-
3.3	Change of temperature test	ČSN EN 60068-2-14, cl. 7, 8	Mechanical, electrical and electronic components, parts and products	-
3.4	Damp heat test, cyclic	ČSN EN 60068-2-30	Mechanical, electrical and electronic components, parts and products	-
3.5	Composite temperature/humidity cyclic test	ČSN EN IEC 60068-2-38	Mechanical, electrical and electronic components, parts and products	-
3.6	Damp heat, steady state test	ČSN EN 60068-2-78	Mechanical, electrical and electronic components, parts and products	-
3.7	Temperature resistance test	RTCA/DO-160G S4, cl. 4.5	Airborne equipment	-
3.8	Temperature variation resistance test	RTCA/DO-160G S5	Airborne equipment	-
3.9	Humidity resistance test	RTCA/DO-160G S6	Airborne equipment	-

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

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- <sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)
- <sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1.5, 1.14, 2.6, 2.7, 3.7, 3.8, 3.9	RTCA/DO-160G: RTCA, Inc. Document number 160: Environmental Conditions and Test Procedures for Airborne Equipment, issue G, standard for the environmental testing of avionics hardware.
1.8, 1.11, 1.15	MIL-STD-461G: Department of Defense Interface Standard: Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.