



ORDER

№ A 489

Sofia, 27.11.2023

Pursuant to Art. 10, para. 1, item 2 and Art. 20, para. 6 of the Law on National Accreditation of Conformity Assessment Bodies, item 4 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 517-ЛИ/14.02.2023, assessment reports reg. № 517-ЛИ/12/В/17.07.2023, reg. № 517-ЛИ/19/В/03.10.2023 and statement of the Accreditation Commission reg. № 517-ЛИ/21/В/09.11.2023, I hereby

ACCREDIT

**Visteon Electronics Bulgaria EOOD
Laboratory for Testing of Automotive Electronics**

Management address: 1000 Sofia, Sredets District, 10 Tsar Osvoboditel Blvd, Floor 3

Laboratory address: 1138 Sofia, 22 Abagar Str.

To perform testing of:

Type of the scope: *flexible**

№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
1.	Electronic products, automotive electronic products**, parts made of metal, glass, and plastic.	1.1. Test A: Cold 1.1.1. External appearance, presence of external changes 1.1.2. Functionality during and after the test.	БДС EN 60068-2-1 (IEC 60068-2-1) ISO 16750-4**
		1.2. Test B: Dry Heat 1.2.1. External appearance, presence of external changes 1.2.2. Functionality during and after the test.	БДС EN 60068-2-2 (IEC 60068-2-2) ISO 16750-4**
		1.3. Test N: Change of temperature 1.3.1. External appearance, presence of external changes 1.3.2. Functionality during and after the test.	БДС EN 60068-2-14 (IEC 60068-2-14) ISO 16750-4**
		1.4. Test N: Change of temperature 1.4.1. External appearance, presence of external changes 1.4.2. Functionality during and after the	БДС EN 60068-2-30 (IEC 60068-2-30) ISO 16750-4**

Type of the scope: <i>flexible*</i>			
№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
		test.	
		1.5. Test Z/AD: Composite temperature/humidity cyclic test 1.5.1 External appearance, presence of external changes 1.5.2. Functionality during and after the test.	БДC EN 60068-2-38 (IEC 60068-2-38) ISO 16750-4**
		1.6. Test Cy: Damp heat, steady state, accelerated test primarily intended for components 1.6.1. External appearance, presence of external changes 1.6.2. Functionality during and after the test.	БДC EN 60068-2-67/A1 (IEC 60068-2-67/A1)
		1.7. Test Cab: Damp heat, steady state 1.7.1. External appearance, presence of external changes 1.7.2. Functionality during and after the test.	БДC EN 60068-2-78 (IEC 60068-2-78) ISO 16750-4**
		1.8. Test Fc: Vibration (sinusoidal) 1.8.1. External appearance, presence of external changes 1.8.2. Functionality during and after the test.	БДC EN 60068-2-6 (IEC 60068-2-6) ISO 16750-3**
		1.9. Test Ea: Shock 1.9.1. External appearance, presence of external changes 1.9.2. Functionality during and after the test.	БДC EN 60068-2-27 (IEC 60068-2-27) ISO 16750-3**
		1.10. Test Ec: Rough handling shocks 1.10.1. External appearance, presence of external changes 1.10.2. Functionality after the test.	БДC EN 60068-2-31 (IEC 60068-2-31) ISO 16750-3**
		1.11. Test Fh: Vibration, broadband random and guidance 1.11.1. External appearance, presence of external changes 1.11.2. Functionality during and after the test.	БДC EN 60068-2-64/A1 (IEC 60068-2-64/A1) ISO 16750-3**
		1.12. Temperature step test 1.12.1. External appearance, presence of external changes 1.12.2. Functionality during and after the test.	ISO 16750-4 (cl. 5.2)**
2.	Automotive electronic products	2.1. Electrostatic discharges	ISO 10605
		2.2. Transients on power lines	БДC ISO 7637-2 (ISO 7637-2)
		2.3. Transients on signal lines	БДC ISO 7637-3

Type of the scope: <i>flexible</i> *			
№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
			(ISO 7637-3)
		2.4. Direct current supply voltage	ISO 16750-2 cl.4.2
		2.5. Overvoltage	ISO 16750-2 cl.4.3
		2.6. Superimposed alternating voltage	ISO 16750-2 cl.4.4
		2.7. Slow decrease and increase of supply voltage	ISO 16750-2 cl.4.5
		2.8. Momentary drop in supply voltage	ISO 16750-2 cl.4.6.1
		2.9. Reset behavior at voltage drop	ISO 16750-2 cl.4.6.2
		2.10. Starting profile	ISO 16750-2 cl.4.6.3
		2.11. Load dump - Test B	ISO 16750-2 cl.4.6.4.2.3
		2.12. Reversed voltage	ISO 16750-2 cl.4.7
		2.13. Ground reference and supply offset	ISO 16750-2 cl.4.8
		2.14. Single line interruption	ISO 16750-2 cl.4.9.1
		2.15. Multiple line interruption	ISO 16750-2 cl.4.9.2
		2.16. Short circuit protection, signal circuits	ISO 16750-2 cl.4.10.2
		2.17. Short circuit protection, load circuits	ISO 16750-2 cl.4.10.3
		2.18. Withstand voltage	ISO 16750-2 cl.4.11
		2.19. Insulation resistance	ISO 16750-2 cl.4.12
		2.20. Measurement of radiated and conducted emissions	БДС EN IEC 55025 CISPR 25
		2.20.1. Radiated emissions from components/modules – ALSE method (cl. 6.5)	
		2.20.2. Conducted emissions from components/modules – Voltage method (cl. 6.3)	
		2.20.3. Conducted emissions from components/modules – current probe method (cl. 6.4)	
		2.21. Radiated Immunity test - ALSE method	БДС ISO 11452-2 (ISO 11452-2)
		2.22. Bulk current injection	БДС ISO 11452-4 (ISO 11452-4) BCI method
		2.23. Immunity against portable transmitters	БДС ISO 11452-9 (ISO 11452-9)

Flexible scope:

*Implementing a new version of standards/documents or standards / documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by CAB.

Note:

** The standard applies only to testing of automotive electronics.

I ORDER

To issue the certificate of accreditation reg. № 305 ЛИ/27.11.2023, valid until 27.11.2027, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the manager of Visteon Electronics Bulgaria EOOD, the head of the Laboratory for Testing of Automotive Electronics, at Visteon Electronics Bulgaria EOOD, or other authorized person in the office of EA BAS.

This order shall be notified to Visteon Electronics Bulgaria EOOD, within 3 (three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

