

1.1 Supplier Lab Contact Information

Company Name:	Emilab Srl a Socio Unico		
Company Address:	Via F.lli Solari 5/A – 33020 Amaro (UD) – Italy		
Contact Name	Title	Phone Number	e-mail
Stefano Petrini	Lab Manager	0039 0433 468625	stefano.petrini@applus.com

1.2 Company Information

<p>Brief company description:</p> <p>Applus+ Emilab is a testing laboratory specializing in tests and analysis in the fields of electromagnetic compatibility, electrical, environmental and vibration testing. It mainly works in the automotive, transport and industrial sectors. Emilab Srl was founded in 1998 and in 2012 opened its current 1300m2 facilities in Amaro (Italy). To find out more about Applus+ Emilab services, visit our website: https://www.emilab.it</p> <p>About Applus+</p> <p>As of 2017, Emilab forms part of the Applus+ group, one of the world's leading companies in inspection, testing and certification. Applus+ Emilab forms part of the Applus+ Laboratories division. Thanks to this integration, our clients have access to the full range of services offered by the network of Applus+ laboratories in Europe, Asia and North America. To find out more about Applus+ Laboratories services, visit our website: http://www.appluslaboratories.com https://www.appluslaboratories.com/global/en/what-we-do/industries/automotive</p> <p>Main testing activities:</p> <ul style="list-style-type: none"> Car Audio amplifiers Car Inverter/ DC/DC converters Cluster ECU/BCU ECF Mirrors Wiper motors Radio and antenna receivers Rear Lamp and Head Lamp Sensors (e.g. WSS, TMS) and Switch control Water/Fuel pumps

2.0 12V EMC/EE TEST REQUIREMENTS (CS.00244)

Capability (Y/N)	Test Name	Stellantis Approval Status Interim / Final (Date)
Y	C_ET_01_V: Resistance to usual power supply voltages	6/25/2024
Y	C_ET_02_V: Resistance to exceptional supply voltage	6/25/2024
Y	C_ET_03_V: Resistance to unusual power supply voltages	6/25/2024
Y	C_ET_04_V: Resistance to slow decrease and increase of supply voltage	6/25/2024
Y	C_ET_05_V: Reset behavior at voltage drop	6/25/2024
Y	C_ET_06_V: Supply voltage drop out	6/25/2024
Y	C_ET_07_V: Supply voltage dips	6/25/2024
Y	C_ET_08_V: Supply voltage Ripple	6/25/2024
Y	C_ET_09_V: Resistance to the "volt control" voltage pulse	6/25/2024
Y	C_ET_10_V: Ignition Off Draw (IOD)	6/25/2024
Y	C_ET_11_V: Immunity to potential difference between power supply	6/25/2024
Y	C_ET_12_V: Immunity to ground and supply voltage short circuit	6/25/2024
Y	C_TE_01_V: Conducted Transient emission	6/25/2024
Y	C_TI_01_V: Transient Pulses – Pulses 1 and 2a	6/25/2024
Y	C_TI_02_V: Transient Pulses – Pulses 3a and 3b	6/25/2024
Y	C_TI_03_V: Engine Cold and Warm Cranking – Pulse 4 bis	6/25/2024
Y	C_TI_04_V: Resistance to Load Dump	6/25/2024
Y	C_TI_05_V: Immunity to transients on signal lines – CCC method	6/25/2024
Y	C_TI_06_V: Transient Pulses – immunity of input/outputs connected to inductive and/or locally grounded load - pulses A2-1 and A2-2	6/25/2024
Y	C_TI_07_V: Transient Pulses – Immunity to the transients with wire to wire coupling	6/25/2024
Y	C_CI_01_V: bulk current injection (BCI)	6/25/2024
Y	C_RI_01_V: immunity to external sources – ALSE	6/25/2024
N	C_RI_02_V: Immunity to external sources – Reverberation chamber	
Y	C_RI_03_V: Immunity to portable transmitters	6/25/2024
Y	C_RI_04_V: Immunity to magnetic field	6/25/2024
Y	C_CE_01_V: RF conducted emission on power supply inputs – AN voltage measurement	6/25/2024
Y	C_CE_02_V: RF conducted emission on wiring – current probe measurement	6/25/2024
Y	C_RE_01_V: electric field radiated emission – ALSE	6/25/2024
Y	C_RE_02_V: Keyless entry – Magnetic field	6/25/2024
Y	C_ESD_01_V: Component not connected – Handling	6/25/2024
Y	C_ESD_02_V: ESD Operating	6/25/2024

3.0 48V EMC/EE TEST REQUIREMENTS (CS.00246)

Capability (Y/N)	Test Name	Stellantis Approval Status Interim / Final (Date)
Y	C_ET_01_48V_V: Nominal Voltage Range	6/25/2024
Y	C_ET_02_48V_V: Transitory Voltage Ranges	6/25/2024
Y	C_ET_03_48V_V: Short Term Overvoltage	6/25/2024
Y	C_ET_04_48V_V: Starting Profile	6/25/2024
Y	C_ET_05_48V_V: Long Term Overvoltage	6/25/2024
Y	C_ET_06_48V_V: Slow Increase/Decrease of Supply Voltage	6/25/2024
Y	C_ET_07_48V_V: Voltage Ripple	6/25/2024
Y	C_ET_08_48V_V: Re-Initialization Test	6/25/2024
Y	C_ET_09_48V_V: Ground Loss of 48V Supply	6/25/2024
Y	C_ET_10_48V_V: Ground Offset	6/25/2024
Y	C_ET_11_48V_V: Short Circuit in Signal Lines	6/25/2024

4.0 HV EMC/EE TEST REQUIREMENTS (CS.00245)

Capability (Y/N)	Test Name	Stellantis Approval Status Interim / Final (Date)
Y	C_ET_01_HV_V: Resistance to usual power supply voltages	6/25/2024
Y	C_ET_02_HV_V: Resistance to Ripple on HV Network	6/25/2024
Y	C_ET_03_HV_V: Voltage Ripple Measurement	6/25/2024
Y	C_ET_04_HV_V: Resistance to Transient Overvoltage	6/25/2024
Y	C_ET_05_HV_V: Resistance to Transient Undervoltage	6/25/2024
Y	C_ET_06_HV_V: Load Dump	6/25/2024
Y	C_RE_01_HV_V: Magnetic Field Emission	6/25/2024
Y	C_TI_01_AC_V: Fast Transients/Burst	6/25/2024
Y	C_TI_02_AC_V: Fast Transients/Burst	6/25/2024
Y	C_TI_03_AC_V: Dips, Interruptions, and voltage variations on AC lines	6/25/2024
Y	C_TI_04_AC_V: Immunity to harmonics and interharmonics on AC line	6/25/2024
Y	C_CE_01_AC_V: Harmonic emissions	6/25/2024
Y	C_CE_02_AC_V: Voltage change and flicker emissions	6/25/2024
Y	C_CE_02_AC_R: Voltage change and flicker emissions	6/25/2024
Y	C_CE_03_AC_V: AC Conducted Emissions	6/25/2024
Y	C_CE_04_AC_V: Signal port Conducted Emissions	6/25/2024