



Service provider for electromagnetic testing

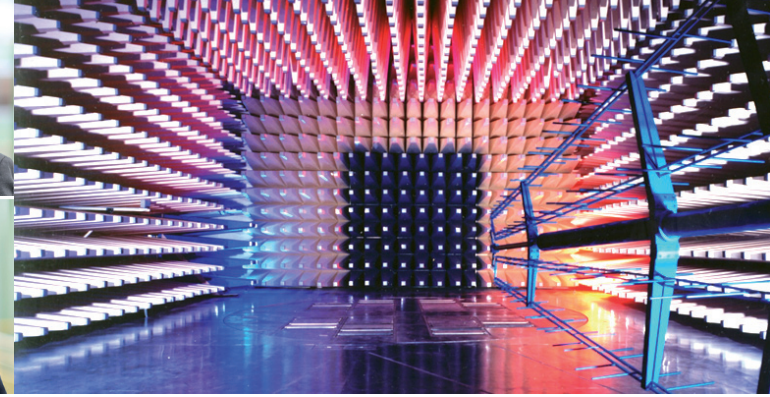
- Supporting test preparation and drafting test plans
- Organising, coordinating, and conducting several, different tests
- Development phase tests
- Assistance for disturbance suppression
- Tests for product approval
- Supervising type-approval procedures
- Controlling and monitoring the test specimen via our TestProcessManager "TPM"

Training and workshops

In addition to our test services, we share our expertise in different training and consulting programmes.

- EMC specialist workshops
- Individual training
- General support e.g. when preparing the EMC risk assessment

Contact us, we are happy to get you ready for your EMC test and certification.



EMC Test NRW GmbH electromagnetic compatibility

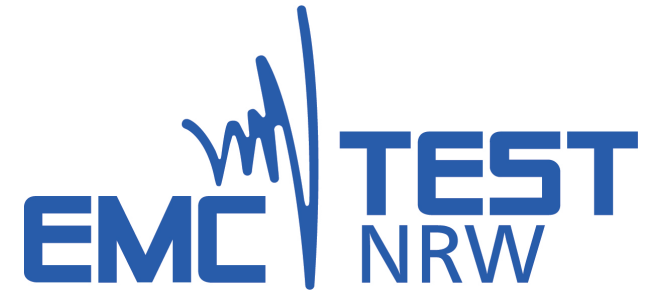
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Independent EMC test laboratory
and certification provider for
electromagnetic compatibility

Accredited test laboratory

Notified Body EMC

Technical Service

(German Federal Motor Transport Authority KBA and Dutch authority RDW)





Vehicles and vehicle components

Products:

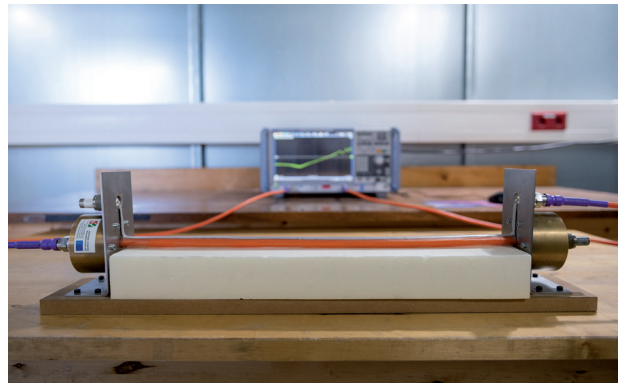
- Cars, trucks, busses, two- and three-wheeled vehicles, electric vehicles, industrial trucks, agricultural machinery, forestry machinery, construction machinery and more
- Control units, sensors, actuators, lighting systems, motors/drives, HMI, safety systems and more

Tests bases:

- Manufacturer's specifications (VW, BMW, Mercedes Benz, Ford, Jaguar, Land Rover, GM, Volvo, Renault, CNH, PSA and more)
- Directives and regulations (RL 2007/46/EG, VO (EU) 167/2013, VO (EU) 168/2013, UNECE R10 and more)
- Product standards (such as EN 13309, ISO 14982, ISO 13766)

Electric mobility

- Measuring high-voltage/low-voltage decoupling
- Testing hybrid and e-vehicles in AC-DC charging mode
- Development and simulation of high-voltage dummy loads and peripherals for electric powertrain components
- Testing of AC and DC charging stations as well as wireless charging systems (WPT) and Mode 2 charging cables with ICCPD



Rail vehicles and components

- Testing in compliance with product standards (EN 50121-series and EN 50155)
- Support with formal and technical aspects of EMC

Shielding effectiveness

- Testing in compliance with OEM specifications and product standards (VW 80332, MBN 10284, LV 215, VG 95214 and more)
- Measuring the shielding effect of HV cables, connectors, and housing
- Determining the intrinsic shielding effectiveness of material samples in the TEM cell according to ASTM D4935
- Shielding effectiveness and (delta-) transfer impedance measurement using the parallel wire method
- EMC behaviour of communication channels for Ethernet connections BroadR-Reach
- Validation of shield concepts

Medical technology

- Tests on medical electrical equipment (EN 60601-1-2, IEC TR 60601-4-2)
- Medical in-vitro diagnostic equipment (IVD) (EN 61326-2-6)



Industry

- Tests according to EMC Directive 2014/30/EU
- Tests according to technical standards and various product standards (EN 61800-3, EN 61326-1, EN 55011, IEC 61851-21-2 and more)
- Interference field strength at 3 m or 10 m antenna distance
- Conformity assessment by a Notified Body according to the German EMC Act

Radio technology

- EMC testing of systems with radio interfaces according to Radioequipment Directive (RED) 2014/35/EU
- Support from our Bluetooth Qualification Consultant BQC

EMF

- Measurements to ensure the safety of personnel exposed to electromagnetic fields
- e.g. EN 50664, EN 50665, EN 62233, EN 62311

On-site testing

- Testing of oversized vehicles and systems and fixed installations
- Conformity assessment by a Notified Body according to the German EMC Act