



# Automotive Testing for Tomorrow

## Experts on automotive standards

VW 80000  
 VW TL81000  
 MBN LV 124-1  
 MBN LV 124-2  
 MBN 10284-2  
 MBN 10438  
 BMW GS 95024-2-2  
 BMW GS 95002-5  
 BMW GS 95002-2  
 BMW GS 95024-3-1  
 John Deere JDQ 201  
 John Deere JDQ 202  
 John Deere JDQ 203  
 MAN M 3499-2  
 MAN M 3499-1  
 MAN M 3285  
 Toyota TSC3005G  
 JLR-EMC-CS  
 FORD FMC1278  
 GMW3097  
 GMW3172  
 PSA B21 7110  
 VOLVO 515-0003  
 VOLVO 331525  
 SCANIA TB1901  
 NDS 28401NDS01

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## Trust in Quality

SIQ Ljubljana is a trusted and independent third-party institute, providing complete testing, assessment, certification, and inspection services. We enable our partners to gain trust, receive tailored services, and global market acceptance of their products. Our experienced staff can test your product at any stage of development, from the early design phase to the final product.

We ensure that products and services meet the highest quality standards.

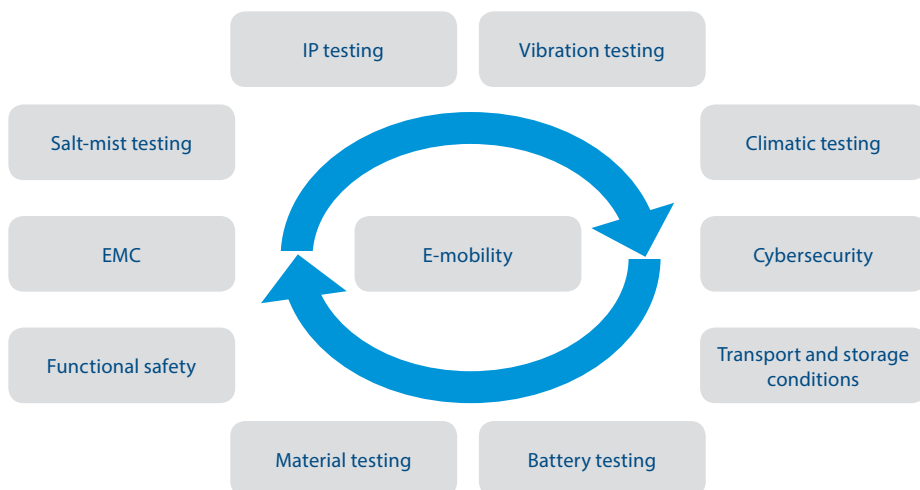
## Product Safety and Excellence

SIQ is an important partner for the entire automotive and e-mobility industries. We work closely with our clients to ensure that testing and certification is carried out within the fastest possible timeframe. For more than 50 years, we have cooperated with organizations in their attempts to enter markets, increase productivity, improve quality and achieve excellence.

- Fast response to client demands (testing, reporting)
- Professional evaluation of tests with skilled test engineers
- Accredited testing methods according to ISO 17025
- Flexibility

## Complete Solutions for Global Reach

The synergy of knowledge is materialized in comprehensive solutions, optimally adapted to the needs of an individual organization.



## EMC Technical Services

We are professional, accurate, and responsive in meeting your requirements for electromagnetic compatibility testing and certification. Our measurements, test reports, and certificates assure EMC compatibility of your product in all important markets. We provide our professional assistance at the earliest stages of development, when we can perform partial, critical tests on individual devices.

### Methods

EN 55025  
CISPR 25  
ECE R 10.05  
ISO 11452-2  
ISO 11452-4  
ISO 11452-5  
ISO 11452-8  
ISO 11452-10  
ISO 7637-2  
ISO 7637-3  
ISO 21848  
EN 50498  
ISO 10605  
ISO 16750-1  
ISO 16750-2  
ISO 16750-3  
ISO 16750-4  
ISO 16750-5

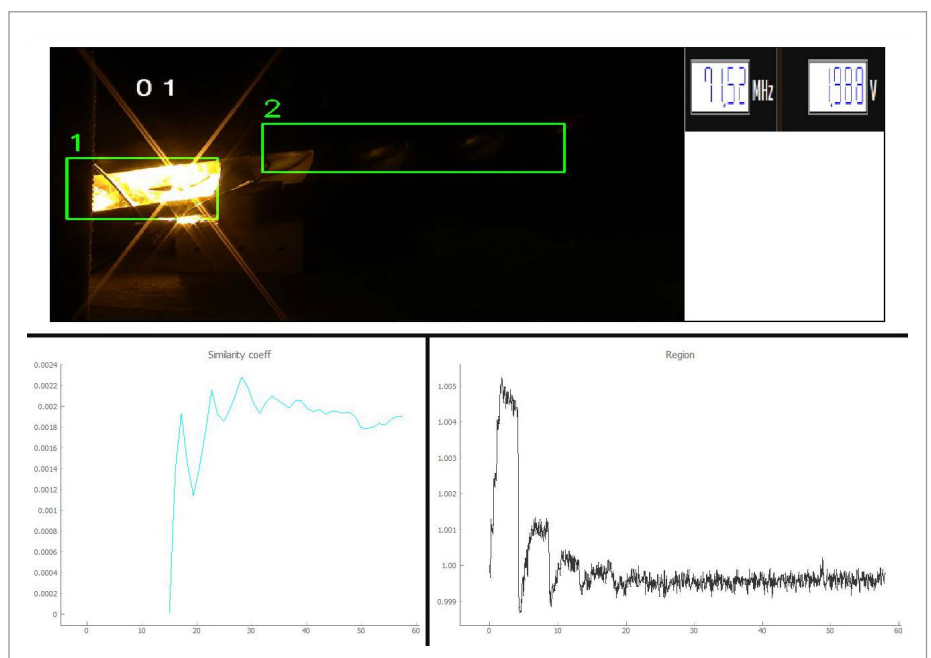
### Product monitoring during tests

- Real time monitoring system
- Offline analysis on recorded videos
- Real-time graph plotting and behaviour analysis of LEDs during testing
- Professional voltage/ current monitoring systems for more than 300 simultaneous channels



### Radio disturbance characteristics and immunity

- Absorber-lined shielded enclosure
- Harness excitation methods
- Stripline
- Immunity to magnetic fields
- Immunity to conducted disturbances in the extended audio frequency range
- Electrical transient conduction along supply lines only
- Electrical transient transmission by capacitive and inductive coupling
- Product family standard for aftermarket electronic equipment in vehicles
- Electrical disturbances from electrostatic discharge
- Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility



## Environmental Simulations

The use of new technologies and increasing requirements for the reliability of products are the cause of the increasing need for environmental impact testing. Our laboratory for environmental impact testing is adequately equipped to carry out various tests.

Accredited methods according to the EN 60068 series:

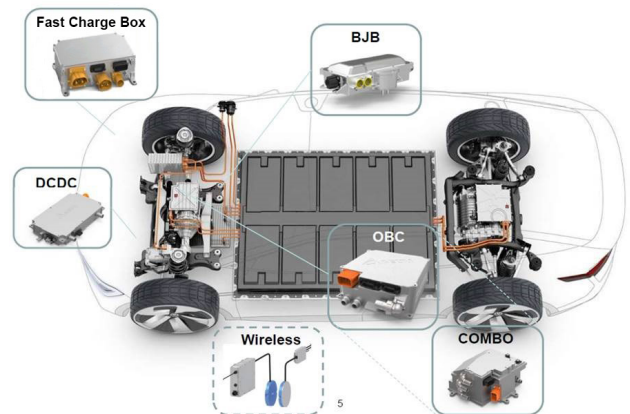
- Vibration testing
- Climatic testing
- Salt-mist testing
- Altitude testing
- Parameter and functional testing
- Aging tests
- UV-light testing



## Cyber Security and Functional Safety

Our team of experienced professionals in the field of information security performs comprehensive information system security assessments that are tailored to your needs.

- IEC 62443
- Industrial IoT / SCADA
- GDPR
- Application security assessment
- Information technology audit
- Safety software assessment
- IEC 61508 verification and validation



## Metal Testing

The testing of metal materials and metal products can be made with destructive, non-destructive, metallographic investigations and loading tests.

- Tensile strength
- Bending test
- Charpy impact test
- Macro, microscopic and X-ray analysis

## Battery Testing, BMS and Chargers

Product safety is what we strive to and believe to be essential. Among the many products that are available on the market, those that have been tested for safety by an independent institution have a clear competitive advantage.

- e-mobility
- AC and DC charging stations for EVs
- Onboard automotive equipment
- Battery and BMS testing

