

## Anechoic Chamber for Vehicle Testing

### Precision EMC & RF Testing for Automotive Applications

With advancements in electric vehicles (EVs), autonomous driving, and connected car technologies, the need for precise electromagnetic compatibility (EMC) and RF testing has never been greater. JV Micronics specializes in high-performance Vehicle Anechoic Chambers, designed to create controlled, interference-free environments for automotive EMC and RF testing.

### What is a Vehicle Anechoic Chamber?

A Vehicle Anechoic Chamber is a shielded test facility lined with radio-frequency (RF) absorbers to eliminate reflections and block external electromagnetic interference. These chambers allow accurate testing of full-scale vehicles, ensuring compliance with global EMC and RF regulations.

### Key Features & Benefits

**Full-Vehicle Testing Capability:** Accommodates cars, trucks, buses, and military vehicles for comprehensive assessments.

**Superior RF Absorption:** High-performance absorbers minimize signal reflections for precise measurements.

**High Shielding Effectiveness:** Eliminates external interference, ensuring accurate and repeatable test results.

**Configurable Test Setups:** Supports radiated emissions, radiated immunity, antenna characterization, and radar cross-section (RCS) analysis.

**Customizable Entry Options:** Sliding or hinged RF shielded doors for seamless vehicle access.

**Compliance with International Standards:** Designed to meet CISPR, ISO 11452, MIL-STD, IEEE, and SAE regulations for EMC and RF testing.

### Applications of RF Anechoic Chambers

- **EMC Testing:** Evaluates electromagnetic interference (EMI) and immunity of vehicle electronic systems.
- **Wireless Communication Testing:** Assesses 5G, V2X (Vehicle-to-Everything), GPS/GNSS, and Bluetooth performance.
- **Autonomous Vehicle Sensor Validation:** Tests LiDAR and mmWave radar used in ADAS (Advanced Driver Assistance Systems).
- **Electric Vehicle (EV) Testing:** Ensures EMC compliance for battery systems, power electronics, and charging systems.
- **Military & Defense Vehicles:** Validates RF stealth performance and EMC compliance for mission-critical operation.

## Complete Turnkey Solutions

At JV Micronics, we offer end-to-end solutions for Vehicle Anechoic Chambers, including:

- Custom Chamber Design & Engineering – Tailored to vehicle size and testing needs.
- Installation & Commissioning – Seamless integration with RF and EMC test equipment.
- Calibration & Maintenance – Ensuring long-term accuracy and regulatory compliance.
- Technical Support & Training – Hands-on assistance for optimal chamber operation

## Why Choose JV Micronics?

With years of expertise in RF and EMC testing solutions, JV Micronics is a trusted partner for automotive manufacturers, research institutions, and defense organizations. Our Vehicle Anechoic Chambers guarantee precision, reliability, and compliance, ensuring that automotive technologies meet the highest industry standards.

For customized solutions and expert consultation, contact us today.