

## EMC Test Chamber



### *Description:*

Electromagnetic compatibility (EMC) testing is performed to determine whether the samples tested are compatible with the electromagnetic environments in which they are designed to operate.

Samples are tested to determine if they are affected by radiated electromagnetic energy, and for levels of electromagnetic energy radiated by the samples. Testing is performed per the customer requirements under manual or programmed test profiles.

The chamber is equipped with engine exhaust porting capability, enabling the testing of a vehicle with its engine running. The chamber also has environmental control from 5° to 40°C with humidity control limited by a 6°C dew point.





## EMC Test Chamber

### *Interior Dimensions:*

9 m x 6 m x 5 m

### *Floor-Mounted Turntable:*

360°, 0.75 m radius

### *Power Amplifiers:*

DC - 2.8 GHz

### *Isotropic Field Probes:*

10 kHz to 40 GHz

### *"E" Field Generators:*

10 kHz to 30 MHz

### *Software Capability:*

Radiated and conducted testing of emission and immunity

### *Chamber:*

Fully lined with radio frequency (RF) absorbing ferrite tiles and removable tiles for floor

### *Signal Generators:*

9 kHz to 2.4 GHz

### *Antenna Frequency Range:*

30 Hz to 10 GHz

### *Antenna Scan Height:*

1 to 4 m

### *Spectrum Analyzer and Receiver:*

9 kHz to 22 GHz

### *Camera Capability:*

Three color cameras with overhead closed circuit TV monitors; camera capable of zoom; automatic iris control for clarity with remote-controlled pan/tilt heads



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