

EMI/EMC & ELECTRICAL TESTING

**Innovation.
Integrity.
Dependability.**



Will your product cause or be adversely affected by electromagnetic interference? Once it goes through DTB's rigorous EMI testing and EMC services, you will confidently know the answer.

COMMERCIAL AVIATION

- RTCA/DO-160, including-
Lightning Testing
- FAA
- Boeing, Airbus

TRANSPORTATION

- Railroad
- DOT
- UMTA AREMA
- NYCTA
- Shipboard

MILITARY

- MIL-STD-461/MIL-STD-462
- Naval MIL-STD-1399
- Components MIL-STD-202
- Military Vehicle MIL-STD-1275
- Aviation MIL-STD-704
- TEMPEST, EMP, HIRF, Lightning

EC DIRECTIVES

- EMC/Medical/Low Voltage
- Safety/Machinery

TELECOMMUNICATIONS / ITE

- FCC Part 15/Part 68
- IEEE/ANSI C 62.41

SPACE SYSTEMS

- NASA
- JSP-30237, 30238

EUROPEAN STANDARDS

- CISPR
- IEC
- ISO
- OK Def Stans

www.dtb.com



*A World of Engineering and Testing
Under One Roof™*



* Accredited Test Lab
767.01, 767.02, 767.03

**ISO 9001:2015 and AS9100D
Registered**

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Visit our web site at: www.dtb.com



Testing
* Lab Code 200422-0

* Please visit www.dtb.com for testing covered under our scopes of accreditation.

ELECTRICAL & EMC TESTING SERVICES

EM/EMC

- Conducted Emissions (Frequency and Time Domain)
- TEMPEST
- Magnetic Field Emissions Shielding Effectiveness
- Magnetic Field Immunity (Capabilities 20 Gauss on large items)
- Radiated Immunity (Facilities: GTEM, Shielded Anechoic Room, Shielded Solid Room, Reverberation, Stripline, Triplate; capabilities 10 KHz-40 GHz, 200 V/m+)
- Site Surveys
- Radiated Emissions (Facilities: 3-Meter, GTEM, Shielded Anechoic Room, Shielded Solid Room, Reverb Mode, and Site Surveys)
- Shielding Effectiveness
- Conducted Immunity (Methods: Audio, RF, Power Handling, Bulk Current Injection, EFT, Voltage Spike, EMP and Lightning)
- EMPHIRF (System Level and Full Aircraft RS105)
- Lightning Testing (Indirect Effects; Multiple Burst/Multiple Stroke; in accordance with RTCA/DO-160 Section 22, SAE ARP5412, EUROCAE/ED-14E, FAA AC:20-136, SAE AE4L, MIL-STD-1757).
- Off-Site Testing

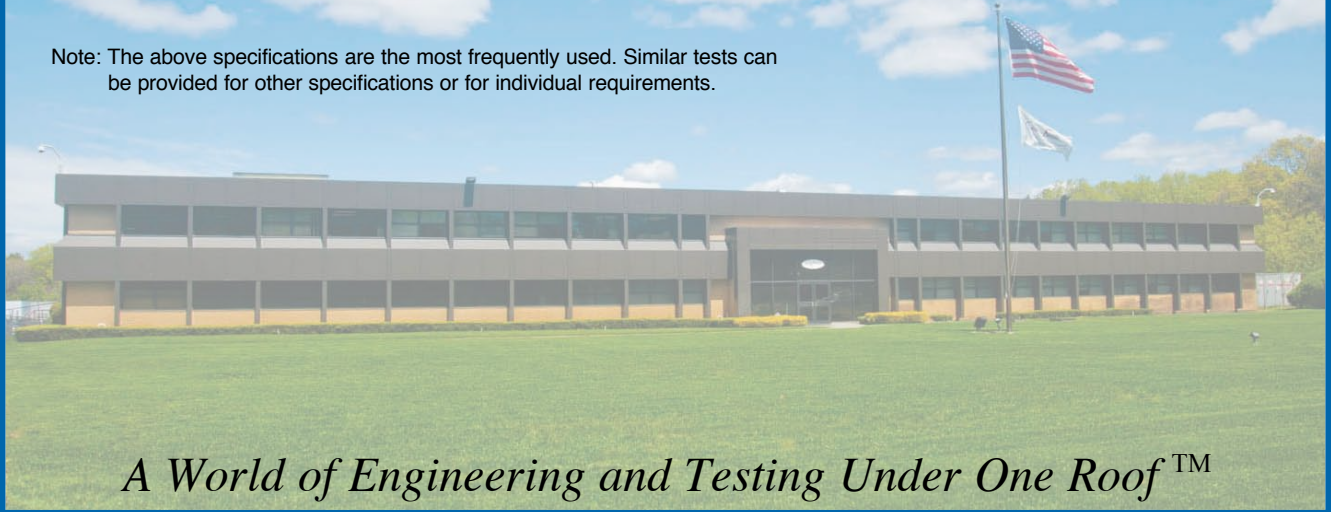
Measurements

Resistance, Capacitance, Inductance, Residual Magnetic Field, Frequency, Voltage, Current, Leakage Current, Volt-Amperes, Power, Power Factor, Impedance, Contact Resistance, Contact Bounce, Gain, Insulation Resistance, Insertion Loss, Return Loss, Crosstalk, Frequency Response, and VSWR

Electrical Tests

Shipboard Power, Automotive Power, Aircraft Power, Dielectric Strength, AC Input Power Variations, DC Input Power Variations, Voltage Spike, Electrostatic Discharge, Bonding Compliance, Temperature Rise, Surge, Transients and Harmonics, Harmonics and Flicker, Electrical Fast Transients, Voltage Dips and Interrupts, ESD

Note: The above specifications are the most frequently used. Similar tests can be provided for other specifications or for individual requirements.



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DAYTON T. BROWN, INC.
ENGINEERING & TEST DIVISION



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