



EMC (ElectroMagnetic Compatibility)

Now including radiated emission testing up to 18 GHz and FCC recognized accredited testing

OUR SERVICE

Independent Test Laboratories (ITL)* conducts a wide range of accredited and non-accredited EMC testing on industrial, commercial, aerospace, military products, household appliances, ITE and electronic equipment.

Our testing includes:

- harmonic & interharmonics measurements
- radiated emissions from 9 kHz to 18 GHz
- conducted emissions from 9 kHz to 30 MHz
- radiated susceptibility 80 MHz to 2.7 GHz

- conducted susceptibility 150 kHz to 250 MHz
- electrostatic discharge immunity
- electrical fast transient immunity
- surge immunity
- voltage dips and interruptions
- magnetic field immunity
- FCC Part 15, Subpart B & C

Our secure facility also enables us to support our clients for both witness and product development testing.

Feel free to call or email our manager to obtain the latest, up-to-date information and quote.

CONTACT ON:

t. +64 3 335 0022
e. sales@itestlabs.com

218A Annex Road, Middleton,
Christchurch 8024, New Zealand

itestlabs.com

*Independent Test Laboratories Limited (ITL) has a strategic alliance partnership with PowerLab Limited. ITL's accredited testing is covered under IANZ accreditation number 42 & APEC TEL MRA accreditation number 11.

OUR FACILITY

To complement our extensive technical knowledge, our EMC testing facility, open air testing site and state-of-the-art equipment includes Rohde & Schwarz 40 Ghz EMI receiver, HP 6.5 Ghz EMI receivers, Bi-Log & horn antennas, signal generators, power meters and amplifiers to provide accurate and repeatable testing results.

The laboratory includes a 3 metre fully anechoic chamber manufactured by ETS-Lindgren, a leader in the field, with which we are able to precisely determine any equipment's EMC compliance by measuring its radiated emissions (RE). This chamber is also suitable for measuring the equivalent isotropically radiated power (EIRP) of a short range device (SRD) and harmonic emissions up to 18 GHz. In addition, ITL performs conducted emission and power disturbance testing within a fully shielded room.

OATS (OPEN AIR TEST SITE)

We are now fully accredited for 3 m and 10 m Radiated Emission (RE) testing from 30 Mhz - 18 Ghz at our Open Air Test Site (OATS).

FCC TESTING

We are now fully accredited to conduct testing to the following:

- Unintentional Radiators (FCC Part 15, Subpart B)
- Intentional Radiators (FCC Part 15, Subpart C)

OUR TEST REPORTS

Our comprehensive test reports are designed to satisfy world-wide acceptance to the relevant authorities; including:

 RCM for Australia & New Zealand

 CE declaration for Europe

 IANZ

 USA FCC

STANDARDS AND REQUIREMENTS

- AS/NZS 4268
- IEC/AS/NZS EN CISPR 11
- IEC/AS/NZS CISPR 12
- IEC/AS/NZS CISPR 14-1
- IEC/AS/NZS CISPR 14-2
- IEC/AS/NZS CISPR 15
- IEC/AS/NZS CISPR 18-2
- IEC/AS/NZS CISPR 22
- IEC/AS/NZS CISPR 24
- IEC/AS/NZS CISPR 32
- IEC/AS/NZS 61000-6-1
- IEC/AS/NZS 61000-6-2
- IEC/AS/NZS 61000-6-3
- IEC/AS/NZS 61000-6-4
- IEC 61000-3-2
- IEC 61000-4-2
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 61000-4-8
- IEC 61000-4-11
- IEC 61000-4-13
- FCC Part 15 Subpart B
- FCC Part 15 Subpart C

NOTE: All facilities and equipment comply with either the relevant requirements of CISPR 16 or the applicable test standard.

CERTIFICATION

By offering a comprehensive one-stop service, we can also manage your certification and declaration requirements through our vast network of service providers, including for electrical safety.

Please request this service at the time of quotation.

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