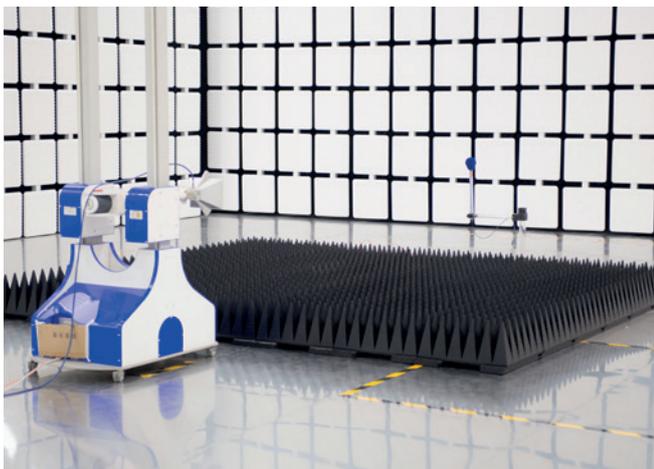




ACCREDITED RE-CALIBRATION SERVICE FOR EMC TEST SITES



ACCREDITED TESTING LABORATORY (Nr. 312)
for Electromagnetic Compatibility.



The EMC test site (Semi Anechoic Chamber, Fully Anechoic Room) of an accredited test house has to be **calibrated on a regular basis** (like all test instruments). It is a requirement of ISO 17025 to demonstrate the compliance of the test site at regular intervals - even when there was no modification in the construction since the last evaluation.

Seibersdorf Labor GmbH is market leader for the manufacturer independent and accredited validation of EMC test sites. Our team offers a new service for the regular re-calibration of EMC test sites.

Advantages:

- accredited calibration of the EMC test site
- confirmation of compliance to performance limits, requested by the standards
- report for the presentation to customers and accreditation bodies

Optional:

- trouble shooting and site improvements
- setup optimization

PACKAGE 1: FOR RADIATED EMISSION TESTING UP TO 6 GHz (CISPR 16-1-4)

- Reference Site Method (NSA), 30 MHz – 1 GHz
- Site VSWR, 1 GHz – 6 GHz
- Table influence, 200 MHz – 6 GHz

Time needed on the EMC test site: 1.5 days, typically

PACKAGE 2: FOR RADIATED EMISSION TESTING UP TO 18 GHz (CISPR 16-1-4)

- Reference Site Method (NSA), 30 MHz – 1 GHz
- Site VSWR, 1 GHz – 18 GHz
- Table influence, 200 MHz – 18 GHz

Time needed on the EMC test site: 2 days, typically

OPTION A: ADDITIONAL LEAKAGE TEST (EN 50147-1)

- Leakage test of one room, 433 MHz using customer's transmit system

Please contact us for price information, additional calibrations and availability.

www.seibersdorf-laboratories.at/rf



ACCREDITED RE-CALIBRATION SERVICE FOR EMC TEST SITES

CALIBRATION ACCORDING TO
CISPR 16-1-4, ANSI C 63.4

DESCRIPTION OF PROCEDURES

Reference Site Method (Normalised Site Attenuation)

Semi Anechoic Chamber

Standard: CISPR 16-1-4 Ed 3.1 from 2012-07 (clause 5.4.4)
ANSI C63.4 -2014 (NSA, Annex D)
Parameters: test distance 3 m or 10 m
transmit height: hor: 1 m and 2 m; ver: 1 m and 1.5 m

The automatic antenna mast with GPIB interface must be provided by the customer and the type of the mast shall be specified prior to the testing.

Fully Anechoic Room

Standard: CISPR 16-1-4 Ed 3.1 from 2012-07 (clause 5.4.7)
Parameters: test distance 3 m or 5 m
5 points in 3 heights
(fixed distance, with "tilting")

Site VSWR

Standard: CISPR 16-1-4 Ed 3.1 from 2012-07 (clause 8)
Parameters: test distance 3 m
test volume height: 2 m

The test is done with the customer's receiving antenna as it has significant influence on the result.

Table Influence

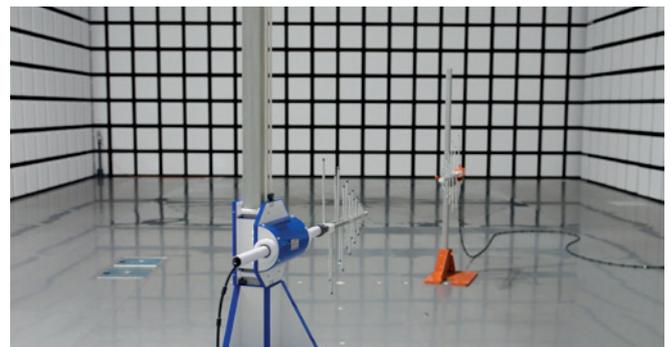
Standard: CISPR 16-1-4 Ed 3.1 from 2012-07 (clause 5.5)
Parameters: test distance 3 m or 10 m

Leakage Test

Standard: EN 50147-1
Parameters: test frequency 433 MHz, 1 kHz frequency modulation scanning receiver outside the enclosure to find any leaks in the shielding, especially on doors, connectors, filters, honeycombs.

Note: This test gives an indication whether maintenance is required before a real shielding test can be performed.

The signal generator, amplifier, transmit antenna and cabling for 433 MHz must be provided by the customer.



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