

3m ETSI Fully Compliant Anechoic Chamber

The TDK 3 meter test range ETSI semi-anechoic chamber is designed to perform radiated emissions measurements at 3 meter distance in full compliance with GSM 11.10 and ETSI standards. The chamber is also fully compliant with ANSI C63.4 and EN 50147-2 standards and can be used to perform measurements according to the CISPR standards.

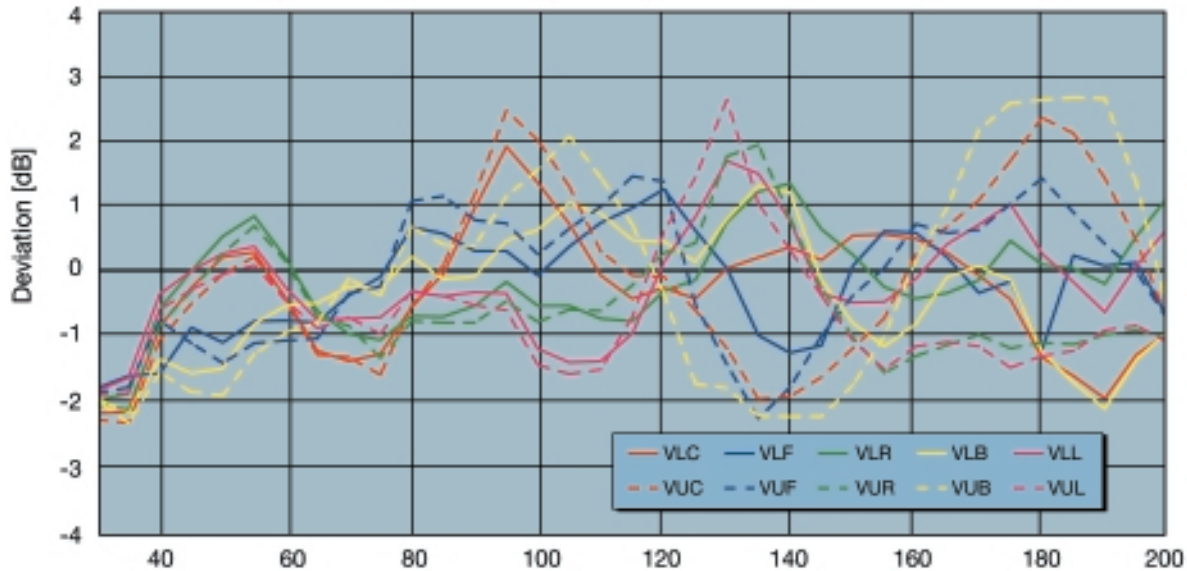
TDK IB-011 ferrite tiles and TDK IP-045C wedge-shaped fully matched resistive absorbers are installed on the complete surface of walls and ceiling. White end caps complete the absorbers and greatly improve the illumination levels inside the chamber. NSA deviation is guaranteed within ± 3.5 dB for a test volume of 2 m \varnothing , 2 m high.

By positioning TDK ferrite tile floor plates and IP-045C absorbers between the transmit antenna and EUT (Equipment Under Test), the semi-anechoic chamber can be used to perform free space radiated emissions measurements in full compliance with GSM 11.10 and the ETSI standards in the frequency range from 30 MHz to 18 GHz and radiated immunity measurements in full compliance with IEC 1000-4-3 standards in the frequency range from 26 MHz to 18 GHz.

The free space NSA is guaranteed within ± 4 dB for a test volume of 2 m \varnothing , 2 m high. The field uniformity is guaranteed over 75% of the surface (12 of the 16 points) of a vertical plane of 1.5 x 1.5 m high, 0.8 m from the ground.

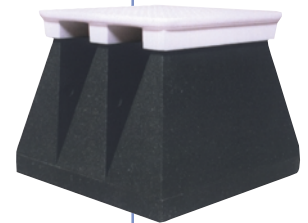
- Radiated emissions: Full compliance with ETSI standards and GSM 11.10
- Radiated immunity: Full compliance with IEC 1000-4-3 and EN 61000-4-3
- Fully lined ferrite tile and IP-045C absorber (TDK hybrid technology)
- Dimensions: 9.6 m long x 6.4 m wide x 6.4 m high (31'-6" L x 21' W x 21' H)
- Turnkey solution

Example of actual NSA results in a TDK 3 meter test range ETSI semi-anechoic chamber (measured by ARC Seibersdorf).



Chamber Specifications

Dimensions	9.6 m long x 6.4 m wide x 6.4 m high (31'-6" L x 21' W x 21' H)
Absorbers	IB-011 Fully lined ferrite, IP-045C Fully lined absorber
NSA test volume ±3.5 dB (@3 m)	2.0 m Ø, 2.0 m high
Free space NSA test volume ±4 dB (@3 m)	2.0 m Ø, 2.0 m high
Field uniformity area (-0, +6 dB)	1.5 x 1.5 m, 0.8 m from the floor
Free space radiated emissions	Compliance with ETSI standards & GSM 11.10
Radiated emissions	Compliance with ANSI C63.4, EN 50147-2, CISPR 22
Radiated immunity	Compliance with IEC 1000-4-3 and EN 61000-4-3
EMI frequency range	30 MHz - 18 GHz
EMS frequency range	26 MHz - 18 GHz



TDK RF Solutions Inc.

1101 Cypress Creek Rd.
Cedar Park, Texas 78613 USA
Phone: 1-512-258-9478
Fax: 1-512-258-0740
E-mail: chambers@tdkrf.com
World Wide Web: www.tdkrfsolutions.com

TDK Electronics Europe GmbH.

Wanheimer Str. 57
40472 Düsseldorf, Germany
Phone: +49/211-9077-139
Fax: +49/211-9077-294

