

Testing and measurement

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For several years, ShortLink AB has run a facility for testing and measurement – primarily geared towards radio, EMC and environmental durability, but also for audio and acoustics, and the analysis and characterisation of antennas. As the company expands, we are also increasing our testing and measurement resources. Thanks to the latest investments, we can now offer radio testing up to 18 GHz and immunity testing up to 3 GHz.

We have also invested in three new climate chambers for environmental durability testing at our laboratory, which enhance capacity, test and measurement possibilities. By offering short turnaround times, competitive prices and flexible work procedures, our goal is to be your reliable business partner.

Large range of measurement and testing services

Advanced equipment and qualified staff ensure that we can offer a large range of services:

- Radio and EMC testing
- Advice and product adaptation
- Help with CE-label certification
- Antenna measurement
- Environmental durability testing– temperature, salt, moisture and vibration
- Measuring and testing – audio and acoustics
- Field measurements – EMC in industrial settings
- Customized EMC courses

Radio testing up to 18 GHz

Thanks to our investment in the fully anechoic chamber, we can now carry out radio testing up to 18 GHz. Testing is performed according to European standards, and measurement according to North American and Asian standards. With the fully anechoic chamber and turntable, we can even offer automated antenna measurements. The RF instrumentation is extensive, and we have the capability to help with both radio and antenna design, either as advisors or throughout entire projects. This is one of our specialties.

EMC testing, counselling and product adaptation

Our main focus is on measurements according to generic standards, but we can also measure according to several product-specific norms and vehicle directives. Our extensive experience within the EMC field enables us to act as counselors on different EMC matters. We assist our customers with support, advice and product adaptation, along with documentation for CE-label certification. Our services are available to you as early as the development phase of a project. In this way, the total cost of a project can often be reduced.

Environmental durability testing

We perform both environmental and vibration testing – combined or individually. Our climate chamber, which can generate temperatures from -83°C to +180°C and relative humidity between 0% and 100%, handles measured objects of a volume up to one cubic meter. It simulates environments from the arctic cold to tropical rainforests. With programmed cycles during long periods and rapid changes (up to 15°C/minute), the measured object can be stressed to the extreme. The vibration equipment can handle measured objects up to 95 kg and yields a force of 1.3 kN. In addition to stress testing and determination of product lifetime, we can measure and log behaviour of electronic equipment at various temperatures.

Audio and acoustics

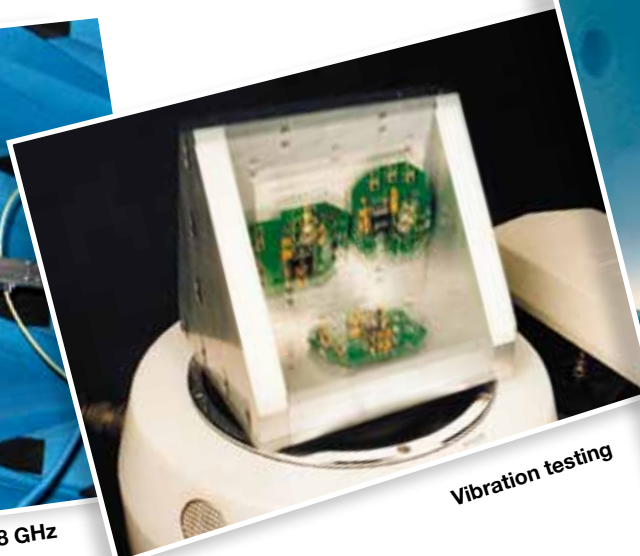
We have vast experience of working with audio design, for example, hearing aids and hearing protectors. This enables us to offer characterisation of microphones and loudspeakers and measurement of audio properties with different electronic designs.

Field measurements – EMC in industrial settings

When an electromagnetic environment needs to be surveyed or a larger system must be CE-label certified, we can perform measurements on-site and assist with information, education and evaluation.



Radio testing up to 18 GHz

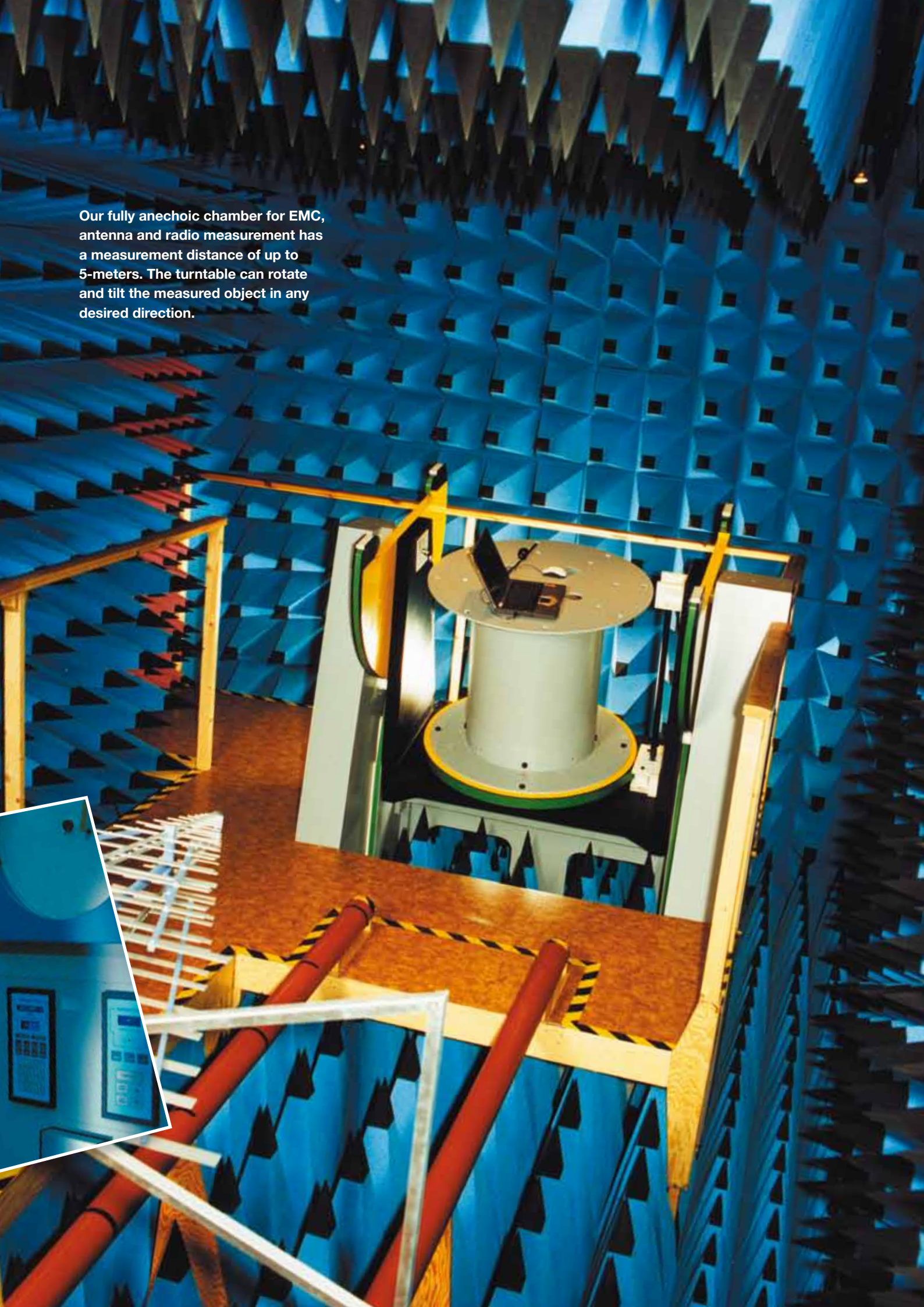


Vibration testing



Climate testing

Our fully anechoic chamber for EMC, antenna and radio measurement has a measurement distance of up to 5-meters. The turntable can rotate and tilt the measured object in any desired direction.



Why choose us as a supplier and development partner?

We have extensive experience and solid competence in the area of **low-power portable electronics and wireless communication systems**.

Our skills are comprised of ASIC (application-specific integrated circuit), discrete electronics, and embedded systems with focus on mixed-signal, RF and advanced analog functions. In addition, we have a well-equipped lab for test and measurement, and we can, therefore, offer our customers unique total solutions.

We develop solutions for the following areas:

- wireless communications – audio , data communication, and remote control
- portable measurement instruments – often requiring very high measurement sensitivity
- protection equipment – hearing, vision, and radiation
- home electronics
- medical products

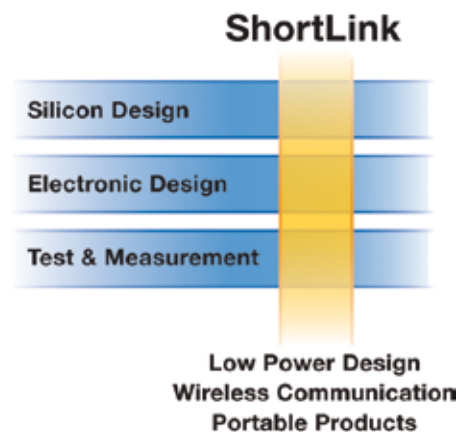
Our objective is to provide top competence within ASIC and electronic design, when developing your products – to make you more competitive.

References

We have vast experience with several market-leading customers from various industry sectors, including:

- Ericsson Mobile Communications
- Ericsson Microwave Systems
- Great Nordic Netcom (GNN)
- Hörnell Elektrooptik
- Sordin
- 3M
- ZMD
- Comfort Audio
- Nilfisk Advance
- StoraEnso

Read more at www.shortlink.se.



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