

Radio Testing

CE Marking and Directives

Applying the CE marking to a product for sale in Europe and issuing a Declaration of Conformity is a manufacturer's assertion that a product meets the requirements of all applicable European Directives.

For electrical and electronic equipment and systems these most commonly include: the Radio Equipment Directive (RED), the Electromagnetic Compatibility (EMC) and the Low Voltage (LV) product safety Directives. Testing to standards demonstrates products conform to these Directives.

What Radio Testing from Eurofins York

We are UKAS accredited to carry out radio testing against European harmonised standards for the following devices:

- **Short Range Devices (SRD);**
 - Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
 - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW
 - Close range inductive data communication equipment
- **Wideband transmission system in the 2.4 GHz band** (radiated spurious emissions)
- **Broadband Radio Access Networks (BRAN) 5 GHz high performance RLAN** (radiated spurious emissions)



We are also accredited to perform Radio testing for accessing the American (FCC) and Canadian (ISED; formerly Industry Canada) markets.

We are constantly adding to our accredited radio testing portfolio; please enquire for an updated list if your equipment is outside of this scope.

Using Pre-Tested Modules

Even if your radio modules are pre-tested and the primary function of your device is not a radio product, the performance of the radio modules may be affected when incorporated into your product.

Under these circumstances we would recommend at least a partial re-test of radiated spurious emissions to ensure that the combined product remains compliant.



Why Use Eurofins York?

- Access to knowledgeable and skilled engineers from 4 locations across the UK
- Access to testing accredited by UKAS to ISO 17025
- Third party product assessment providing assurance to your customers
- We pride ourselves on being able to deliver solutions to our customers' problems



Why Carry Out Testing?

- Radio testing provides the design, product approvals, project engineer or other responsible person with the assurance that their product meets the appropriate technical requirements; it demonstrates fitness for purpose.
- For most equipment with intentional transmitters sold in Europe, conformance with the Radio Equipment Directive 2014/53/EU (RED; superseded the R&TTE Directive in June 2016) is a legal requirement for CE Marking. Testing to standards is the simplest way of demonstrating conformance.
- The test report can be included within the legally required Technical Documentation for the equipment as evidence of meeting the essential requirements of the RED Directive. This is as important as if the designers/manufacturer had carried out the test themselves.
- Proof of compliant performance is often a contractual requirement, even outside of Europe and is a prerequisite for FCC approvals (for accessing the North American market).
- Product liability risks can be minimised by ensuring due diligence has been applied at the design stage.

UKAS Accreditation

All Eurofins York (formerly York EMC Services) test laboratories are accredited by UKAS to ISO 17025 for radio testing. Our UKAS accreditation ensures that tests are consistently carried out correctly, giving our customers a high level of confidence in the results.



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Design and Modification Advice

Eurofins York engineers are highly experienced, well qualified and equipped to assist customers with design issues as they arise during testing. This significantly increases the likelihood of a successful product testing outcome.

Documentation

In order to legally place your products on the market, it is important to not just be technically compliant, but also administratively. Our [Product Compliance Health Check](#) can help you ensure that your documentation is correct and up to date.

York Training Academy

Eurofins York has an international reputation for providing Compliance Training Courses for individuals and organisations. Our [Training Portfolio](#) ranges from E-learning, one day introductory essentials right through to advanced in-depth training courses.

Contact us:

York Head Office

Market Square
University Of York
Heslington
York, YO10 5DD

Tel: +44 (0) 330 430 3456

Email: enquiry@yorkemc.com

Bristol Laboratory

46 Waverley Road
Beeches Industrial Estate
Yate
Bristol, BS37 5QT

Tel: +44 (0) 1454 326998

Castleford Laboratory

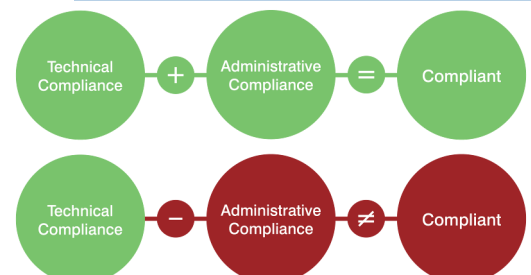
Unit 5, Speedwell road
Castleford
West Yorkshire, WF10 5PY

Tel: +44 (0) 1977 731173

Grangemouth Laboratory

Unit 1
Grangemouth Technology Park
Earls Road
Grangemouth
East Stirlingshire, FK3 8UZ

Tel: +44 (0) 1324 469000



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