SLOVENSKI STANDARD
SIST EN 301 843-1 V2.3.1:2026

01-maj-2026

Standard elektromagnetne združljivosti (EMC) za pomorsko radijsko opremo in storitve - 1. del: Splošne tehnične zahteve

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services - Part 1: Common technical requirements

Ta slovenski standard je istoveten z: **ETSI EN 301 843-1 V2.3.1 (2026-03)**

ICS:

33.060.20	Sprejemna in oddajna oprema	Receiving and transmitting equipment
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general
47.020.70	Navigacijska in krmilna oprema	Navigation and control equipment

SIST EN 301 843-1 V2.3.1:2026 **en**

ETSI EN 301 843-1 V2.3.1 (2026-03)

EUROPEAN STANDARD

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 1: Common technical requirements

Reference
REN/ERM-EMC-413

Keywords
EMC, maritime, radio, regulation

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Sous-Préfecture de Grasse (06) N° w061004871

Contents

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Foreword

This European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document is part 1 of a multi-part deliverable covering the ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services, as identified below:

Part 1: "Common technical requirements";

Part 2: "Specific conditions for VHF radiotelephone transmitters and receivers operating in the frequency range 156 MHz to 174 MHz";

Part 3: "Specific conditions for non-SOLAS maritime radars and river radars";

Part 4: "Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers";

Part 5: "Specific conditions for MF/HF radiotelephone transmitters and receivers";

Part 6: "Specific conditions for Earth Stations on board Vessels operating in frequency bands above 3 GHz";

Part 7: "Specific conditions for Maritime Broadband Radiolink equipment";

Part 8: "Specific conditions for radio beacons and locating devices".

National transposition dates	
Date of adoption of this EN:	18 March 2026
Date of latest announcement of this EN (doa):	30 June 2026
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2026
Date of withdrawal of any conflicting National Standard (dow):	31 December 2027

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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Introduction

The present document contains a full list of EMC requirements together with the standard test set-ups and compliance limits, that should be used by the product specific parts within the ETSI EN 301 843 series. Deviations, where applicable, from this are set out in the specific product related part.

Product dependent arrangements necessary to perform the EMC tests on dedicated types of radio equipment, and the assessment of test results, are detailed in the appropriate relevant radio technology parts of ETSI EN 301 843 series details of which can be found in the foreword of the present document.

The present document also acts as the basis for product specific parts of the ETSI EN 301 843 series. It is these product specific parts that are intended to be cited in the OJEU under article 3.1(b) of Directive 2014/53/EU [i.8].

1 Scope

The present document contains the common requirements for marine radio communications and radio determination equipment and associated ancillary equipment operating from any combination of internal batteries, DC and single phase AC, in respect of ElectroMagnetic Compatibility (EMC).

The provisions of the present document apply to marine radio equipment **not covered** in the scope of the Council Directive on marine equipment (the "Marine Equipment Directive" 2014/90/EU [i.4]).

Product dependent arrangements necessary to perform the EMC tests on dedicated types of marine radio communications and radio determination equipment, and the assessment of test results, are detailed in the appropriate product related parts of the present document.

The present document, together with the product related part, specifies the applicable EMC tests, the methods of measurement, the limits and the performance criteria for marine radio equipment and associated ancillary equipment.

In case of differences (for instance concerning special conditions, definitions, abbreviation) between the present document and the relevant product related part of the present document, the product related part takes precedence.

For the further content of the present document, the expression "radio equipment" is taken to mean marine radio communications or radio determination equipment, in each individual case.

Technical specifications related to the antenna port of radio equipment and emissions from the enclosure port of radio equipment and combinations of radio and associated ancillary equipment are not included in the present document. Such technical specifications are normally found in the relevant product standards for the effective use of the radio spectrum.

The environment classification used in the present document is maritime, as defined in EN IEC 60945 [i.3].

Marine radio communications equipment meeting the EMC requirements set out in EN IEC 61000-6-3 [i.1] and EN 61000-6-1 [i.2] is deemed to meet also the EMC requirements for the maritime environment described in EN IEC 60945 [i.3].

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus intended to be used in the maritime environment. The levels, however, do not cover extreme cases which may occur in any location but with low probability of occurrence.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in the ETSI docbox.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents are necessary for the application of the present document.

[1] EN IEC 55016-1-4:2019: "Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements", (produced by CENELEC).

[2] EN IEC 55016-1-1:2019: "Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus", (produced by CENELEC).