

ETSI EN 301 843-6 V2.2.1 (2017-11)



**ElectroMagnetic Compatibility (EMC) standard
for marine radio equipment and services;
Harmonised Standard for electromagnetic compatibility;
Part 6: Specific conditions for Earth Stations on board
Vessels operating in frequency bands above 3 GHz**

Reference

REN/ERM-EMC-389

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Contents

Intellectual Property Rights	5
Foreword.....	5
Modal verbs terminology.....	5
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references.....	6
3 Definitions, symbols and abbreviations	7
3.1 Definitions.....	7
3.2 Symbols.....	7
3.3 Abbreviations	8
4 General and operational requirements.....	8
4.1 Environmental profile.....	8
4.2 Arrangements for test signals	8
4.2.0 General.....	8
4.2.1 Arrangements for test signals at the input of the transmitter	9
4.2.2 Arrangements for test signals at the output of the transmitter	9
4.2.3 Arrangements for test signals at the input of the receiver	9
4.2.4 Arrangements for test signals at the output of the receiver.....	9
4.2.5 Arrangements for testing transmitter and receiver together (as a system)	9
4.3 Exclusion bands.....	9
4.4 Narrow band responses of receivers.....	9
4.5 Normal test modulation	9
5 Performance assessment.....	10
5.1 General	10
5.2 Equipment which can provide a continuous communication link	10
5.3 Equipment which does not provide a continuous communication link	10
5.4 Ancillary equipment.....	10
5.5 Equipment classification	10
5.6 Equipment configuration(s).....	10
6 Performance criteria	12
6.0 Performance criteria grades.....	12
6.1 Performance criteria A for continuous phenomena applied to transmitters and receivers.....	12
6.2 Performance criteria B for transient phenomena applied to transmitters and receivers	13
6.2.1 Performance criteria (B _A) for transient phenomena applied to a grade A EUT	13
6.2.2 Performance criteria (B _B) for transient phenomena applied to a grade B EUT	13
6.3 Performance criteria C applied to power supply failure	14
6.4 Performance check	14
6.5 Performance criteria for equipment which does not provide a continuous communication link.....	14
6.6 Performance criteria for ancillary equipment tested on a stand alone basis	14
7 Applicability overview	14
7.1 Emission.....	14
7.1.1 General.....	14
7.1.2 Special conditions	15
7.2 Immunity	15
7.2.1 General.....	15
7.2.2 Special conditions.....	15
Annex A (informative): Relationship between the present document and the essential requirements of Directive 2014/53/EU	16

Annex B (normative):	Examples of earth stations on board vessels in the scope of the present document	18
B.0	Definitions of Earth Stations on board Vessels equipment within the scope of the present document	18
B.1	Earth Stations on board Vessels operating in the 11 GHz, 12 GHz and 14 GHz frequency bands allocated to the Fixed Satellite Service (FSS)	18
B.2	Earth Stations on board Vessels operating in the 6/4 GHz frequency bands allocated to the Fixed Satellite Service (FSS).....	18
Annex C (informative):	Change history	20
History	21

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Foreword

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

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.3] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.1].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

The present document is part 6 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

National transposition dates	
Date of adoption of this EN:	17 October 2017
Date of latest announcement of this EN (doa):	31 January 2018
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2018
Date of withdrawal of any conflicting National Standard (dow):	31 July 2019

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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1 Scope

The present document together with ETSI EN 301 843-1 [1], covers the assessment of Earth Stations on board Vessels (ESVs) transmitting above 3 GHz in the Fixed Satellite Service (FSS) as defined in annex A and ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).

Technical specifications related to the antenna port and emissions from the enclosure port of Earth Stations on board Vessels are not included in the present document. Such technical specifications are found in the related product standards for the effective use of the radio spectrum.

The present document specifies the applicable test conditions, performance assessment, and performance criteria for Earth Stations on board Vessels and the associated ancillary equipment.

In case of differences (for instance concerning special conditions, definitions, abbreviations) between the present document and ETSI EN 301 843-1 [1], the provisions of the present document take precedence.

The electromagnetic environment used in the present document to develop the technical specifications encompasses the electromagnetic environment on board ships as identified in IEC EN 60945 [i.2].

NOTE: The relationship between the present document and essential requirements of article 3.1b of Directive 2014/53/EU [i.1] is given in annex A.

2 References

2.1 Normative references

References are specific, identified by date of publication and/or edition number or version number. Only the cited version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference/>.

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

- [1] ETSI EN 301 843-1 (V2.2.1) (11-2017): "ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Harmonised Standard for electromagnetic compatibility; Part 1: Common technical requirements".

2.2 Informative 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.

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.
- [i.2] IEC EN 60945 (2002) + Corrigendum 1 (2008): "Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results".