



SLOVENSKI STANDARD

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9`Y_lfca U[bYfbUnXfi y`1j cgh]b`nUXYj Y`j `nj Yn]`n`fUX]`g_`ja `gdY_lfca `f0FAŁĚ
DfYbcgbY`fUX]cH`YZc: bg_`Y`bUdfUj Y`J<: `nUdca c`fg_`Y`a cV]`bY`gHcf]hj Yž_`]`XYi `Y`c`j
dUgcj]\ `J<: `fjUa c`nUi dcfUVc`ni bU^; A 8 GGŁ!`&`"XY.`<`Ufa cb]n]fUb]`9Bž_`]`nUYa U
V]ghj YbY`nU H`j Y `YbU` "&`X]fY_`hj YF/`HH9

Electromagnetic compatibility and Radio spectrum Matters (ERM); Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only); Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

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Harmonized European Standard (Telecommunications series)

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Portable Very High Frequency (VHF) radiotelephone
equipment for the maritime mobile service operating
in the VHF bands (for non-GMDSS applications only);
Part 2: Harmonized EN covering essential requirements
of article 3.2 of the R&TTE Directive**

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Foreword

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

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [6] (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Directive 1999/5/EC [1] of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

The present document is part 2 of a multi-part deliverable covering the Electromagnetic compatibility and Radio spectrum Matters (ERM); Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only), as identified below:

Part 1: "Technical characteristics and methods of measurement";

Part 2: "**Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive**".

National transposition dates

Date of adoption of this EN:	26 January 2007
Date of latest announcement of this EN (doa):	30 April 2007
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 October 2007
Date of withdrawal of any conflicting National Standard (dow):	31 October 2008

1 Scope

The present document states the minimum technical characteristics and methods of measurement required for portable Very High Frequency (VHF) radiotelephones not providing maritime distress and safety communications functions (i.e. not forming part of the Global Maritime Distress and Safety System (GMDSS)) operating in certain frequency bands allocated to the maritime mobile service using both 25 kHz and 12,5 kHz channels.

The present document is intended to cover the provisions of Directive 1999/5/EC [1] (R&TTE Directive) Article 3.2, which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of Article 3 of the R&TTE Directive [1] may apply to equipment within the scope of the present document.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

For a specific reference, subsequent revisions do not apply.

For a non-specific reference, the latest version applies.

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- [1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (R&TTE Directive).
- [2] Void.
- [3] Void.
- [4] ETSI EN 301 178-1 (V1.3.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only); Part 1: Technical characteristics and methods of measurement".
- [5] ETSI TR 100 028 series (V1.4.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [6] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in the R&TTE Directive [1] and the following apply:

environmental profile: range of environmental conditions under which equipment within the scope of the present document is required to comply with the provisions of the present document

supplier: entity referred to in the R&TTE Directive [1] responsible for the placing on the market of an equipment within the scope of the Directive

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

EMC	Electro-Magnetic Compatibility
emf	electromotive force
GMDSS	Global Maritime Distress and Safety System
LV	Low Voltage
R&TTE	Radio and Telecommunications Terminal Equipment
VHF	Very High Frequency

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4 Technical requirements specifications

4.1 Environmental profile

Tests defined in the present document shall be carried out at representative points within the boundary limits of the declared operational environmental profile which, as a minimum, shall be that specified in the test conditions contained in the present document.

As technical performance varies subject to environmental conditions, tests shall be carried out under a sufficient variety of environmental conditions as specified in the present document to give confidence of compliance for the affected technical requirements (which shall also be within the boundary limits of the declared operational environmental profile).

4.2 Conformance requirements

4.2.1 Transmitter frequency error

4.2.1.1 Definition

The transmitter frequency error shall be as defined in EN 301 178-1 [4], clause 8.1.1.

4.2.1.2 Limit

The transmitter frequency error limit shall be as stated in EN 301 178-1 [4], clause 8.1.3.

4.2.1.3 Conformance

Conformance tests as defined in clause 5.3.1 shall be carried out.

4.2.2 Transmitter carrier power

4.2.2.1 Definition

The transmitter carrier power shall be as defined in EN 301 178-1 [4], clause 8.2.1.

4.2.2.2 Limit

The transmitter carrier power limit shall be as stated in EN 301 178-1 [4], clause 8.2.3.

4.2.2.3 Conformance

Conformance tests as defined in clause 5.3.2 shall be carried out.

4.2.3 Transmitter frequency deviation

4.2.3.1 Definition

The transmitter frequency deviation shall be as defined in EN 301 178-1 [4], clause 8.3.1.

4.2.3.2 Limit

The transmitter frequency deviation limit shall be as stated in EN 301 178-1 [4], clause 8.3.3.

4.2.3.3 Conformance

Conformance tests as defined in clause 5.3.3 shall be carried out.

4.2.4 Transmitter adjacent channel power

4.2.4.1 Definition

The transmitter adjacent channel power shall be as defined in EN 301 178-1 [4], clause 8.7.1.

4.2.4.2 Limit

The transmitter adjacent channel power limit shall be as stated in EN 301 178-1 [4], clause 8.7.3.

4.2.4.3 Conformance

Conformance tests as defined in clause 5.3.4 shall be carried out.

4.2.5 Transmitter conducted spurious emissions conveyed to the antenna

4.2.5.1 Definition

The transmitter conducted spurious emissions conveyed to the antenna shall be as defined in EN 301 178-1 [4], clause 8.8.1.

4.2.5.2 Limit

The transmitter conducted emissions conveyed to the antenna limit shall be as stated in EN 301 178-1 [4], clause 8.8.3.

4.2.5.3 Conformance

Conformance tests as defined in clause 5.3.5 shall be carried out.

4.2.6 Transmitter cabinet radiation and conducted spurious emissions other than those conveyed to the antenna

4.2.6.1 Definition

The transmitter cabinet radiation and conducted spurious emissions other than those conveyed to the antenna shall be as defined in EN 301 178-1 [4], clause 8.9.1.

4.2.6.2 Limit

The transmitter cabinet radiation and conducted spurious emissions other than those conveyed to the antenna limit shall be as stated in EN 301 178-1 [4], clause 8.9.3.

4.2.6.3 Conformance

Conformance tests as defined in clause 5.3.6 shall be carried out.

4.2.7 Transient frequency behaviour of the transmitter

4.2.7.1 Definition

The transient frequency behaviour of the transmitter shall be as defined in EN 301 178-1 [4], clause 8.11.1.

4.2.7.2 Limit

The transmitter frequency behaviour of the transmitter limit shall be as stated in EN 301 178-1 [4], clause 8.11.3.

4.2.7.3 Conformance

Conformance tests as defined in clause 5.3.7 shall be carried out.

4.2.8 Receiver maximum usable sensitivity

4.2.8.1 Definition

The receiver maximum usable sensitivity shall be as defined in EN 301 178-1 [4], clause 9.3.1.

4.2.8.2 Limit

The receiver maximum usable sensitivity limit shall be as stated in EN 301 178-1 [4], clause 9.3.3.

4.2.8.3 Conformance

Conformance tests as defined in clause 5.4.2 may be carried out.

4.2.9 Receiver co-channel rejection

4.2.9.1 Definition

The receiver co-channel rejection shall be as defined in EN 301 178-1 [4], clause 9.4.1.

4.2.9.2 Limit

The receiver co-channel rejection limit shall be as stated in EN 301 178-1 [4], clause 9.4.3.