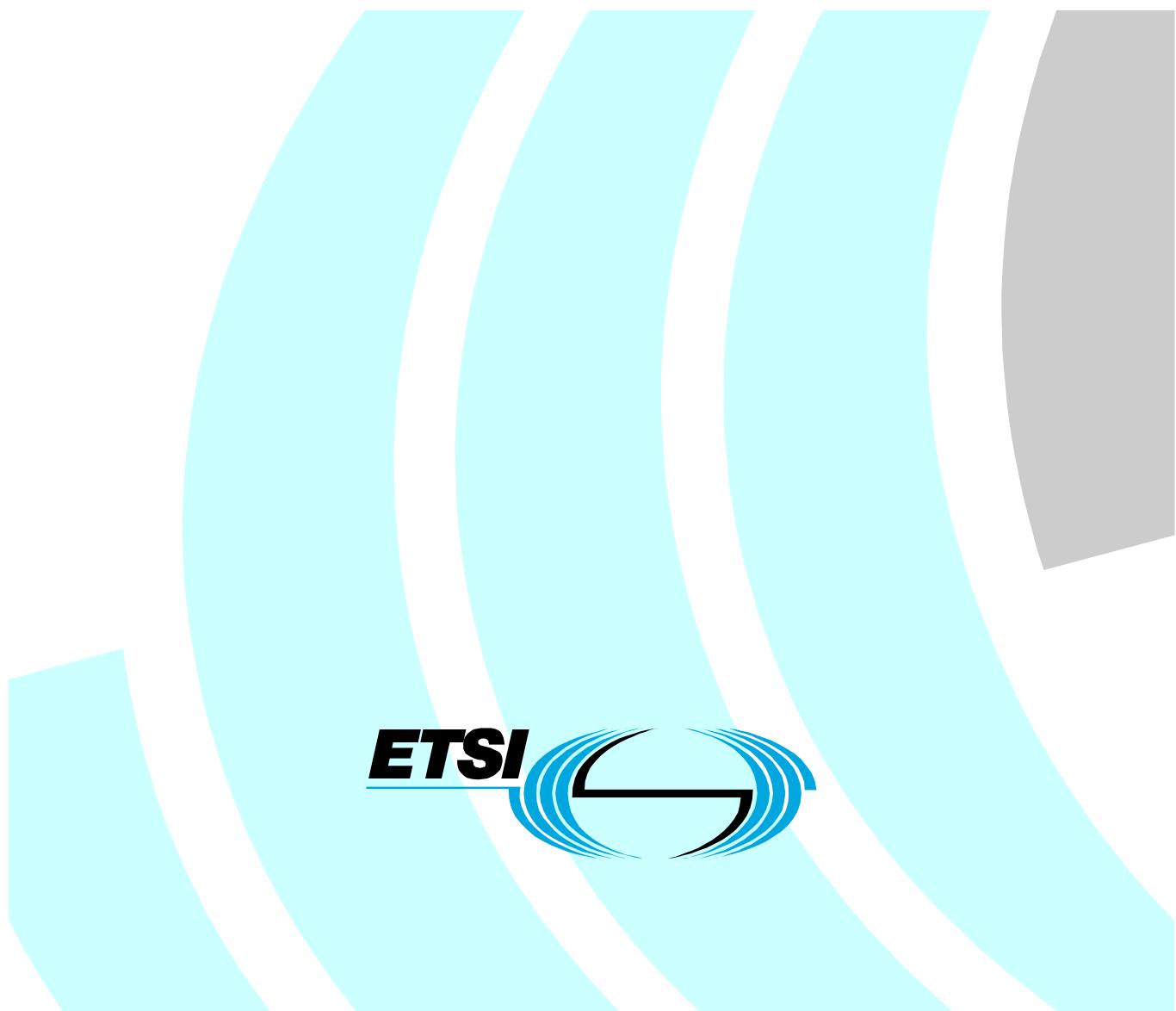


**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Short Range Devices (SRD);
Radio equipment in the frequency range
9 kHz to 25 MHz and inductive loop systems
in the frequency range 9 kHz to 30 MHz;
Part 2: Harmonized EN under article 3.2
of the R&TTE Directive**



Reference

REN/ERM-TG28-0405-2

Keywords

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Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions, symbols and abbreviations	6
3.1 Definitions	6
3.2 Symbols	6
3.3 Abbreviations	6
4 Technical requirements specifications	7
4.1 Environmental profile.....	7
4.2 Conformance requirements	7
4.2.1 Transmitter requirements	7
4.2.1.1 Radiated H-field.....	7
4.2.1.2 RF carrier current.....	7
4.2.1.3 Radiated E-field	7
4.2.1.4 Permitted frequency range of the modulation bandwidth	7
4.2.1.5 Spurious emissions	7
4.2.1.5.1 Conducted spurious emissions at frequencies below 30 MHz	7
4.2.1.5.2 Conducted spurious emissions at frequencies \geq 30 MHz.....	7
4.2.1.5.3 Radiated spurious emissions at frequencies below 30 MHz	8
4.2.1.5.4 Radiated spurious emissions at frequencies \geq 30 MHz.....	8
4.2.1.6 Duty cycle.....	8
4.2.2 Receiver requirements	8
4.2.2.1 Adjacent channel selectivity - in band	8
4.2.2.2 Blocking or desensitization.....	8
4.2.2.3 Receiver spurious radiations	8
4.2.2.3.1 Radiated emissions below 30 MHz.....	8
4.2.2.3.2 Radiated emissions \geq 30 MHz	8
5 Testing for compliance with technical requirements.....	9
5.1 Description of testing for compliance with technical requirements	9
5.1.1 Environmental conditions for testing	9
5.1.1.1 Normal and extreme test-conditions.....	9
5.1.1.2 Test power source	9
5.1.2 Choice of samples for test suites.....	9
5.1.3 Transmitter test suites	9
5.1.3.1 Radiated H-field.....	9
5.1.3.2 RF carrier current	9
5.1.3.3 Radiated E-field	9
5.1.3.4 Permitted frequency range of the modulation bandwidth	9
5.1.3.5 Conducted spurious emissions at frequencies below 30 MHz	9
5.1.3.6 Conducted spurious emissions at frequencies \geq 30 MHz.....	10
5.1.3.7 Radiated spurious emissions at frequencies below 30 MHz	10
5.1.3.8 Radiated spurious emissions at frequencies \geq 30 MHz	10
5.1.4 Receiver test suites.....	10
5.1.4.1 Adjacent channel selectivity- in band	10
5.1.4.2 Blocking and desensitization	10
5.1.4.3 Receiver spurious radiation.....	10
5.2 Interpretation of measurement results	10

Annex A (normative):	EN Requirements Table (EN-RT)	12
Annex B (informative):	The EN title in the official languages	15
Annex C (informative):	Bibliography.....	16
History		17

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Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Candidate Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the Vote phase of the ETSI standards Two-step Approval Procedure.

The present document is part 2 of a multi-part deliverable covering the Electromagnetic compatibility and Radio spectrum Matters (ERM); 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, as identified below:

Part 1: "Technical characteristics and test methods";

Part 2: "Harmonized EN under article 3.2 of the R&TTE Directive".

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [4] (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").

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

The present document applies to Short Range Devices (SRDs) transmitters and receivers as described in the scope of EN 300 330-1 [2].

The present document is intended to cover the provisions of article 3.2 of Directive 1999/5/EC [1] (R&TTE Directive) 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".

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.

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

- [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] ETSI EN 300 330-1 (V1.3.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); 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; Part 1: Technical characteristics and test methods".
- [3] ETSI TR 100 028 (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [4] 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, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in the R&TTE Directive [1] and EN 300 330-1 [2] apply.

3.2 Symbols

For the purposes of the present document, the symbols given in EN 300 330-1 [2] apply.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in EN 300 330-1 [2] apply.

4 Technical requirements specifications

4.1 Environmental profile

The technical requirements of the present document apply under the environmental profile for operation of the equipment, which shall be declared by the supplier. The equipment shall comply with all the technical requirements of the present document at all times when operating within the boundary limits of the declared operational environmental profile.

4.2 Conformance requirements

4.2.1 Transmitter requirements

4.2.1.1 Radiated H-field

The radiated H-field, as defined in EN 300 330-1 [2], clause 7.2.1.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.2.1.3, table 4.

This requirement applies to transmitters with an integral or dedicated loop antenna.

4.2.1.2 RF carrier current

The RF carrier current, as defined in EN 300 330-1 [2], clause 7.2.2.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.2.2.3, table 5.

This requirement only applies to Product Class 3, as defined in EN 300 330-1 [2], clause 7.1.4.

4.2.1.3 Radiated E-field

The radiated E-field, as defined in EN 300 330-1 [2], clause 7.2.3.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.2.3.3. This requirement only applies to Product Class 4, as defined in EN 300 330-1 [2], clause 7.1.4.

4.2.1.4 Permitted frequency range of the modulation bandwidth

The permitted range of operation frequencies, as defined in EN 300 330-1 [2], clause 7.3.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.3.3.

4.2.1.5 Spurious emissions

4.2.1.5.1 Conducted spurious emissions at frequencies below 30 MHz

The conducted spurious emissions below 30 MHz, as defined in EN 300 330-1 [2], clause 7.4.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.4.2.2.

This requirement only applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.

4.2.1.5.2 Conducted spurious emissions at frequencies \geq 30 MHz

The conducted spurious emissions at or above 30 MHz, as defined in EN 300 330-1 [2], clause 7.4.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.4.2.4, table 6.

This requirement only applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.

4.2.1.5.3 Radiated spurious emissions at frequencies below 30 MHz

The radiated spurious emissions below 30 MHz, as defined in EN 300 330-1 [2], clause 7.4.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.4.3.2, table 7.

This requirement applies to all transmitters.

4.2.1.5.4 Radiated spurious emissions at frequencies \geq 30 MHz

The radiated spurious emissions at or above 30 MHz, as defined in EN 300 330-1 [2], clause 7.4.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.4.4.2, table 8.

This requirement applies to all transmitters.

4.2.1.6 Duty cycle

The duty cycle, as defined in EN 300 330-1 [2], clause 7.5.1, shall not exceed the limits in EN 300 330-1 [2], clause 7.5.3, table 9.

This requirement applies to all transmitters.

4.2.2 Receiver requirements

4.2.2.1 Adjacent channel selectivity - in band

The adjacent channel selectivity in-band, as defined in EN 300 330-1 [2], clause 8.1.1, shall not be less than the limits in EN 300 330-1 [2], clause 8.1.3, table 10.

This requirement applies to receiver class 1, when invoked, as defined in EN 300 330-1 [2], clauses 4.1.1 and 8.1.

4.2.2.2 Blocking or desensitization

The blocking or desensitization, as defined in EN 300 330-1 [2], clause 8.2.1, shall not be less than the limits in EN 300 330-1 [2], clause 8.2.3, table 11.

This requirement applies to class 1 and class 2 receivers, when invoked, as defined in EN 300 330-1 [2], clause 4.1.1.

4.2.2.3 Receiver spurious radiations

4.2.2.3.1 Radiated emissions below 30 MHz

The spurious radiations below 30 MHz, as defined in EN 300 330-1 [2], clause 8.3.1, shall not exceed the limits in EN 300 330-1 [2], clause 8.3.3.1, table 12.

4.2.2.3.2 Radiated emissions \geq 30 MHz

The spurious radiations at 30 MHz or above, as defined in EN 300 330-1 [2], clause 8.3.1, shall not exceed the limits in EN 300 330-1 [2], clause 8.3.3.2.

5 Testing for compliance with technical requirements

5.1 Description of testing for compliance with technical requirements

5.1.1 Environmental conditions for testing

5.1.1.1 Normal and extreme test-conditions

The tests shall be made under normal test conditions, and also, where stated, under extreme test conditions.

The test conditions shall be as specified in EN 300 330-1 [2], clauses 5.3, 5.4.1.1 and 5.4.2.

5.1.1.2 Test power source

The test power source shall meet the requirements of EN 300 330-1 [2], clause 5.2.

5.1.2 Choice of samples for test suites

Measurement shall be performed, according to the present document, on samples of equipment defined in EN 300 330-1 [2], clauses 4.2.1 to 4.2.4.

5.1.3 Transmitter test suites

5.1.3.1 Radiated H-field

- The test specified in EN 300 330-1 [2], clause 7.2.1.2, shall be carried out.

This test suite applies for Product Class 1 transmitters with an integral or dedicated antenna and class 2 transmitters with a customized antenna.

5.1.3.2 RF carrier current

- The test specified in EN 300 330-1 [2], clause 7.2.2.2, shall be carried out.

This test suite applies for Product Class 3 transmitters supplied without antenna.

5.1.3.3 Radiated E-field

- The test specified in EN 300 330-1 [2], clause 7.2.3.2, shall be carried out.

This test suite applies for Product Class 4 transmitters with an integral or dedicated antenna.

5.1.3.4 Permitted frequency range of the modulation bandwidth

- The test specified in EN 300 330-1 [2], clause 7.3.2, shall be carried out.

This test suite applies to all transmitters.

5.1.3.5 Conducted spurious emissions at frequencies below 30 MHz

- The test specified in EN 300 330-1 [2], clause 7.4.2.1 shall be carried out.

This test suite only applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.

5.1.3.6 Conducted spurious emissions at frequencies ≥ 30 MHz

- The test specified in EN 300 330-1 [2], clause 7.4.2.3 shall be carried out.

This test suite only applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.

5.1.3.7 Radiated spurious emissions at frequencies below 30 MHz

- The test specified in EN 300 330-1 [2], clause 7.4.3.1 shall be carried out.

This test suite applies to all transmitters.

5.1.3.8 Radiated spurious emissions at frequencies ≥ 30 MHz

- The test specified in EN 300 330-1 [2], clause 7.4.4.1, shall be carried out.

This test suite applies to all transmitters.

5.1.4 Receiver test suites

5.1.4.1 Adjacent channel selectivity- in band

- The test specified in EN 300 330-1 [2], clause 8.1.2, shall be carried out.

This test suite applies to all Class 1 receivers.

5.1.4.2 Blocking and desensitization

- The test specified in EN 300 330-1 [2], clause 8.2.2, shall be carried out.

This test suite applies to all Class 1 and Class 2 receivers.

5.1.4.3 Receiver spurious radiation

- The test specified in EN 300 330-1 [2], clause 8.3.2, shall be carried out.

This test suite applies to all receivers.

5.2 Interpretation of measurement results

The interpretation of the results recorded in the test report for the measurements described in the present document shall be as follows:

- the measured value related to the corresponding limit shall be used to decide whether an equipment meets the requirements of the present document;
- the value of the measurement uncertainty for the measurement of each parameter shall be separately included in the test report;
- the value of the measurement uncertainty shall be, for each measurement, equal to or lower than the figures in table 1.

Table 1: Measurement uncertainty

Radio frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	± 1 dB
Conducted emission of receivers	± 1 dB
Radiated emission of transmitter	± 6 dB
Radiated emission of receiver	± 6 dB
Temperature	± 1 degree
Humidity	± 5 %

For the test methods, according to the present document the uncertainty figures shall be calculated according to the methods described in the TR 100 028 [3] and shall correspond to an expansion factor (coverage factor) $k = 1,96$ or $k = 2$ (which provide confidence levels of respectively 95 % and 95,45 % in case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 1 is based on such expansion factors.

The particular expansion factor used for the evaluation of the measurement uncertainty shall be stated.

Annex A (normative): EN Requirements Table (EN-RT)

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The EN Requirements Table (EN-RT) in table A1 below serves a number of purposes, as follows:

- it provides a statement of all the essential requirements in words and by cross reference to a specific clause in the present document or to a specific clause in a specific referenced document;
- it provides a statement of all the test procedure corresponding to those essential requirements by cross reference to specific clause(s) in the present document or to a specific clause(s) in specific referenced document(s);
- it qualifies each requirement to be either:
 - Unconditional - meaning that the requirement applies in all circumstances, or
 - Conditional - meaning that the requirement is dependent on the supplier having chosen to support optional functionality defined within the schedule;
- in the case of Conditional requirements, it associates the requirement with the particular optional service or functionality;
- it qualifies each test procedure to be either:
 - Essential: meaning that it is included with the Essential Radio Test Suite and therefore the requirement shall be demonstrated to be met in accordance with the referenced procedures;
 - Other: meaning that the test procedure is illustrative but other means of demonstrating compliance with the requirement are permitted;
- when the schedule is completed in respect of a particular equipment including the testing outcomes, including a completed version of table A1 it provides a means to assert the "presumption of conformity" with the HS.

Table A.1: EN Requirements Table (EN-RT)

Harmonized Standard EN 300 330-2 The following technical requirements and test specifications are relevant to the presumption of conformity under article 3.2 of the R&TTE Directive							
Technical Requirement reference			Technical Requirement Conditionality		Test Specification		
No	Description	Reference: Clause No	U/C	Condition	E/O	Reference: Clause No	Observations
1	Radiated H-field	4.2.1.1	C	Applies to transmitters with an integral or dedicated loop antenna.	E	5.1.3.1	
2	RF carrier current	4.2.1.2	C	Applies to Product Class 3, as defined in EN 300 330-1 [2], clause 7.1.4.	E	5.1.3.2	
3	Radiated E-field	4.2.1.3	C	Applies to Product Class 4, as defined in EN 300 330-1 [2], clause 7.1.4.	E	5.1.3.3	
4	Permitted frequency range of the modulation bandwidth	4.2.1.4	U		E	5.1.3.4	
5	Conducted spurious emissions at frequencies below 30 MHz	4.2.1.5.1	C	Applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.	E	5.1.3.5	
6	Conducted spurious emissions at frequencies \geq 30 MHz	4.2.1.5.2	C	Applies to Product Class 3 as defined in EN 300 330-1 [2], clause 7.1.4.	E	5.1.3.6	
7	Radiated spurious emissions at frequencies below 30 MHz	4.2.1.5.3	U		E	5.1.3.7	
8	Radiated spurious emissions at frequencies \geq 30 MHz	4.2.1.5.4	U		E	5.1.3.8	
9	Duty cycle	4.2.1.6	U		X		
10	Adjacent channel selectivity – in band	4.2.2.1	C	Applies to receiver class 1, when invoked, as defined in EN 300 330-1 [2], clauses 4.1.1 and 8.1.	O	5.1.4.1	
11	Blocking or desensitization	4.2.2.2	C	Applies to class 1 and class 2 receivers, when invoked, as defined in EN 300 330-1 [2], clause 4.1.1	O	5.1.4.2	
12	Radiated emissions below 30 MHz	4.2.2.3.1	U		E	5.1.4.3	
13	Radiated emissions \geq 30 MHz	4.2.2.3.2	U		E	5.1.4.4	

Key to columns:

Essential Requirement:

No	A unique identifier for one row of the table which may be used to identify an essential requirement or its test specification.
Description	A textual reference to the Essential Requirement
Reference: Clause Number	Identification of clause(s) defining the essential requirement in the present document unless another document is referenced explicitly

Conditionality:

U/C	Indicates whether the requirement is to be <i>unconditionally</i> applicable (U) or is <i>conditional</i> upon the suppliers claimed functionality of the equipment (C)
Condition	Explains the conditions when the requirement shall or shall not be applicable for a requirement which is classified "conditional"

Test Specification:

E/O	Indicates whether the test specification forms part of the <i>Essential Radio Test Suite</i> (E) or whether it is one of the <i>Other Test Suite</i> (O)
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NOTE: All tests whether 'E' or 'O' are relevant to essential requirements. Tests designated 'E' collectively make up the Essential Radio Test Suite; those designated 'O' make up the Other Test Suite. For those requirements for which no test specification applies are designated 'X'. All tests classified 'E' shall be performed as specified with satisfactory outcomes in order to allow a presumption of conformity. Requirements associated with tests classifies 'O' or 'X' must be complied with although the requirement shall be complied with as demonstrated by an equivalent test or by assertion by the supplier and asserted to be complied with to allow presumption of conformity.]

Reference: Clause Number	Identification of clause(s) defining the test specification in the present, document unless another document is referenced explicitly. Where no test is specified (that is, where the previous field is 'X') this field remains blank.
---------------------------------	--

Observations:	Remains blank in the HS but is available for use for users of the standard to record the outcome of tests against each requirement.
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Annex B (informative): The EN title in the official languages

Language	EN title
Czech	Elektromagnetická kompatibilita a rádiové spektrum (ERM) - Zařízení krátkého dosahu (SRD) - Rádiová zařízení pracující v kmitočtovém rozsahu 9 kHz až 25 MHz a systémy s indukční smyčkou v kmitočtovém rozsahu 9 kHz až 30 MHz - Část 2: Harmonizovaná EN podle článku 3.2 Směrnice R&TTE
Danish	Elektromagnetisk kompatibilitet og spektrumanliggender (ERM) - Apparater med kort rækkevidde (SRD) - Radioudstyr som benytter frekvenser mellem 9 kHz og 25 MHz samt induktive sløjfer mellem 9 kHz og 30 MHz - Del 2: Harmoniseret EN, som dækker de væsentlige krav i R&TTE-direktivets artikel 3.2
Dutch	
English	Electromagnetic compatibility and Radio spectrum Matters (ERM); 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; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
Estonian	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM); Lähiotimeseadmed; Raadiosagedusalas 9 kHz kuni 25 MHz töötavad raadioseadmed ja sagedusalas 9 kHz kuni 30 MHz töötavad induktiivseadmed; Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
Finnish	Sähkömagneettinen yhteensopivuus ja radiospektriasiat (ERM); Lyhyen kantaman laitteet; Taajuusalueella 9 kHz - 25 MHz toimivat radiolaitteet sekä taajuusalueella 9 kHz - 30 MHz toimivat induktiosilmukajärjestelmät; Osa 2: R&TTE-direktiivin artiklaan 3.2 perustuva yhdenmukaistettu standardi
French	
German	Elektromagnetische Verträglichkeit und Funkspektrumsangelegenheiten (ERM); Funkanlagen geringer Reichweite; Technische Kennwerte und Prüfverfahren für Funkgeräte zur Verwendung im Frequenzbereich von 9 kHz bis 25 MHz und für induktive Funkanlagen im Frequenzbereich von 9 kHz bis 30 MHz; Teil 2: Wesentliche Anforderungen gemäß Art. 3.2 der R&TTE-Richtlinie
Greek	Ηλεκτρομαγνητική συμβατότητα και θέματα ραδιοφάσματος (ERM) – Συσκευές μικρής εμβέλειας (SRD) – Ραδιοεξοπλισμός στην περιοχή συχνοτήτων 9 kHz ως 25 MHz και συστήματα επαγγειού βρόχου στην περιοχή συχνοτήτων 9 kHz ως 30 MHz - Μέρος 2: Εναρμονισμένο EN για την κάλυψη του άρθρου 3.2 της Οδηγίας R&TTE
Hungarian	
Icelandic	
Italian	
Latvian	
Lithuanian	
Maltese	
Norwegian	
Polish	Kompatybilność Elektromagnetyczna i Zagadnienia Widma Radiowego (ERM) - Urządzenia bliskiego zasięgu (SRD). Urządzenia radiowe pracujące w zakresie częstotliwości od 9 kHz do 25 MHz i systemy z pętlą indukcyjną pracujące w zakresie częstotliwości od 9 kHz do 30 MHz - Część 2: Zharmonizowana EN zgodna z wymaganiami artykułu 3.2 dyrektywy R&TTE
Portuguese	
Slovak	Elektromagnetická kompatibilita a záležitosti rádiového spektra (ERM). Zariadenia s krátkym dosahom (SRD). Rádiové zariadenia vo frekvenčnom rozsahu od 9 kHz do 25 MHz a systémy s indukčnou slučkou vo frekvenčnom rozsahu od 9 kHz do 30 MHz. Časť 2: Harmonizovaná EN podľa článku 3.2 smernice R&TTE
Slovenian	Elektromagnetna združljivost (EMC) in zadeve v zvezi z radijskim spektrom (ERM) - Naprave kratkega dosega (SRD) - Radijska oprema v frekvenčnem območju od 9 kHz do 25 MHz in sistemi z indukcijsko zanko v frekvenčnem območju od 9 kHz do 30 MHz - 2. del: Harmonizirani EN v skladu s členom 3.2 direktive R&TTE
Spanish	
Swedish	

Annex C (informative): Bibliography

- ETSI EN 301 489-1: "Electromagnetic compatibility and Radio spectrum matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements".
- ETSI EN 301 489-3: "Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz".
- ERC/DEC(01)13: "ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency bands 9 - 59.750 kHz, 59.750 - 60.250 kHz, 60.250 - 70 kHz, 70 - 119 kHz, 119 - 135 kHz".
- ERC/DEC(01)14: "ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency bands 6765 - 6795 kHz, 13.553 - 13.567 MHz".
- ERC/DEC(01)15: "ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency band 7400 - 8800 kHz".
- ERC/DEC(01)16: "ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency band 26.957 - 27.283 MHz".

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