



**SLOVENSKI STANDARD**  
**SIST EN IEC 55014-1:2021/oprAA:2024**  
**01-februar-2024**

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**Elektromagnetna združljivost - Zahteve za (električne) gospodinjske aparate, električna ročna orodja in podobne aparate - 1. del: Oddajanje**

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

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Ta slovenski standard je istoveten z: **EN IEC 55014-1:2021/prAA:2024**

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**ICS:**

33.100.10

Emisija

Emission

**SIST EN IEC 55014-1:2021/oprAA:2024 en**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN IEC 55014-1:2021**

**prAA**

February 2024

ICS 33.100.10

English Version

## Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

To be completed

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This draft amendment prAA, if approved, will modify the European Standard EN IEC 55014-1:2021; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2024-04-26.

It has been drawn up by CLC/TC 210.

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

This draft amendment was established by CENELEC in three official versions (English, French, German).

A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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**EN IEC 55014-1:2021/prAA:2024 (E)**

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## 77 **European foreword**

78 This document (EN IEC 55014-1:2021/prAA:2024) has been prepared by CLC/TC 210 “Electromagnetic  
79 Compatibility (EMC)”.

80 This document is currently submitted to the Enquiry.

81 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

82 This document has been prepared under a standardization request addressed to CENELEC by the European  
83 Commission. The Standing Committee of the EFTA States subsequently approves these requests for its  
84 Member States.

85 For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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## EN IEC 55014-1:2021/prAA:2024 (E)

86 **1 Modification to term entry 3.4.5**87 *Change the source from "CISPR 32:2015" to "CISPR 32:2015<sup>1</sup>"*88 **2 Modification to term entry 3.4.7**89 *Change the source from "CISPR 32:2015" to "CISPR 32:2015<sup>1</sup>"*90 **3 Modification to term entry 3.5.8**91 *Replace Note 1 to entry with:*92 "Note 1 to entry: Examples are a resistive load or a battery used to load a battery charger at its output terminals,  
93 a resistive load connected to a secondary coil to exercise an IPTS or a real IPTC. It is common that a  
94 representative load is an apparatus commercially available or specified in the instructions for use of the EUT."95 **4 Modification to term entry 3.5.9**96 *Replace Note 2 to entry with:*97 "Note 2 to entry: This is generally an apparatus commercially available or specified in the instructions for use of  
98 the EUT."99 **5 Modification to term entry 3.6.5**100 *Replace "instructions for use" with "instructions for use of the EUT".*101 **6 Modification to subclause 4.1**102 *Add new second paragraph: "Measurements need only be performed in frequency ranges where limits are  
103 specified. The lower limit shall apply at all transition frequencies."*104 *Delete the Note and the last paragraph.*105 **7 Modification to subclause 4.2** EN IEC 55014-1:2021/oprAA:2024106 *Replace the first and second paragraphs with:*

107 "Table 1 summarizes the limits applicable to the different types of equipment within the scope of this document.

108 The requirements detailed in the referenced clauses and other relevant clauses shall be applied."

109 *Replace Table 1 with:*

110 "

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<sup>1</sup> As amended by COR1:2016 and AMD1:2019.



	Disturbance voltage/current			Dist. voltage	Disturbance Power <sup>c</sup>		Radiated disturbances		
	Continuous <sup>a, f</sup>			Clicks <sup>b</sup>			Electric field	Magnetic field	
Subclause	(4.3.2)	(4.3.3)		(4.4.2)	(4.3.4)		(4.3.4, 4.3.5)	(4.3.2)	
Limits	Table 2	Table 5	Table 6	Text	Table 7	Table 8	Table 9 Table 11 <sup>g</sup>	Table 3	Table 4
All equipment not listed below		•		•	•	•	•		
Tools			•	•	•	•	•		
Equipment using IPT	•			•	•	•	•	•	•
Electric fence energisers <sup>d</sup>		•		•	•	•	•		
Toys <sup>e</sup>		•		•	•	•	•		
<p><sup>a</sup> The limits of Table 5 and Table 6 could be applicable to discontinuous disturbances (see 4.4.2.2).</p> <p><sup>b</sup> For exemption and exceptions, see 4.4.1 and 5.4.3.</p> <p><sup>c</sup> For mains operated equipment, if certain conditions are met, the disturbance power test may be applied in alternative to the radiated disturbance test (see 4.3.4.2 and Figure 5).</p> <p><sup>d</sup> For electric fence energisers the disturbance voltage test is applied according to 4.3.3.5.</p> <p><sup>e</sup> Certain toys are deemed to comply with the requirements of this document without testing (see A.7.1).</p> <p><sup>f</sup> For wired network ports, see 4.3.3.7.</p> <p><sup>g</sup> See Table 10 for application of limits in Table 11.</p>									

111

112 **8 Modification to subclause 4.3.3.5** EN IEC 55014-1:2021/oprAA:2024113 *Delete the second paragraph, Note 1 and Note 2.*114 **9 Modification to subclause 4.3.3.7**115 *Replace the subclause with:*116 "Wired network ports shall meet the requirements of Table A.8 of CISPR 32:2015<sup>1</sup> using the limits given in  
117 Table A.12."118 **10 Modification to subclause 4.3.4.1**119 *At the end of paragraph 1, delete "See also 4.1."*120 **11 Modification to subclause 4.3.4.5**121 *Replace Table 9 with:*

122 "

## EN IEC 55014-1:2021/prAA:2024 (E)

Testing method	Basic standard	Frequency range MHz	Limit <sup>a</sup> Quasi-peak dB $\mu$ V/m	Remarks
OATS or SAC <sup>b</sup>	CISPR 16-2-3:2016 <sup>2</sup> (7.3)	30 to 230 230 to 1 000	30 37	Measurement distance 10 m
FAR <sup>c</sup>	CISPR 16-2-3:2016 <sup>Err</sup> or! Bookmark not defined. (7.4)	30 to 230 230 to 1 000	42 to 35 <sup>d</sup> 42	Measurement distance 3 m
FAR <sup>c</sup>	IEC 61000-4-22:2010 (Annex B)	30 to 230 230 to 1 000	42 to 35 <sup>d</sup> 42	Measurement distance 3 m
TEM- Waveguide <sup>e</sup>	IEC 61000-4-20:2022 (Annex A)	30 to 230 230 to 1 000	30 37	–

<sup>a</sup> The lower limit is applies at the transition frequency.

<sup>b</sup> Measurements may be made at closer distance, down to 3 m. An inverse proportionality factor of 20 dB per decade shall be used to normalize the measured data to the specified distance for determining the limit. In this case the recommendations of the CISPR basic standards shall be considered when testing large EUT at frequency approaching 30 MHz, due to near field effects.

<sup>c</sup> All equipment shall be measured within the test volume as described in 5.3.4.3 and shown in Figure 12 to Figure 19.

<sup>d</sup> Decreasing linearly with the logarithm of the frequency.

<sup>e</sup> The TEM waveguide method shall be limited to battery operated EUT without cables attached and with a maximum size according to 6.2 of IEC 61000-4-20:2022 (the largest dimension of the enclosure is equal to the wavelength at the maximum measurement frequency, 300 mm at 1 GHz).

The test report shall state which test method was used and which limits were applied.

123

124 **12 Modification to subclause 4.3.5.2**125 *Replace Table 11 with:*

126 “

Test methods	Site validation	Frequency range MHz	Limit <sup>a</sup> dB( $\mu$ V/m)	Detector / RBW	Measurement distance m
FSOATS <sup>b</sup> FAR	CISPR 16-1-4:2019 (Clause 7)	1 000 to 3 000	50	Average	3
		3 000 to 6 000	54	1 MHz	
		1 000 to 3 000	70	Peak	
		3 000 to 6 000	74	1 MHz	

<sup>a</sup> The limits shall be applied across the frequency range from 1 000 MHz to the required highest frequency of measurement derived from Table 10.

<sup>b</sup> A FSOATS may be a SAC/OATS with RF absorbers on the RGP.

When using a spectrum analyser the VBW shall be 3 MHz or higher. For narrowband signals, as commonly found above 1 GHz, a 3 MHz VBW is appropriate.

127

<sup>2</sup> As amended by CISPR 16-2-3:2016/AMD1:2019.