

**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 (CISPR 16-1-4:2019
+ CISPR 16-1-4:2019/A1:2020)**

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See Eesti standard EVS-EN IEC 55016-1-4:2019+A1:2020 sisaldb Euroopa standardi EN IEC 55016-1-4:2019 ja selle muudatuse A1:2020 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 55016-1-4:2019+A1:2020 consists of the English text of the European standard EN IEC 55016-1-4:2019 and its amendment A1:2020.
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(CISPR 16-1-4:2019 + CISPR 16-1-4:2019/A1:2020)

Spécifications des méthodes et des appareils de mesure
des perturbations radioélectriques et de l'immunité aux
perturbations radioélectriques - Partie 1-4: Appareils de
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Festlegung der Verfahren zur Messung der hochfrequenten
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4: Geräte und Einrichtungen zur Messung der
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[A1]

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NORME INTERNATIONALE



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COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES

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

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques –

Partie 1-4: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques – Antennes et emplacements d'essai pour les mesures des perturbations rayonnées





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CONTENTS

FOREWORD	8
1 Scope	11
2 Normative references	11
3 Terms, definitions and abbreviated terms	12
3.1 Terms and definitions	12
3.2 Abbreviated terms	16
4 Antennas for measurement of radiated radio disturbance	17
4.1 General	17
4.2 Physical parameter (measurand) for radiated disturbance measurements	17
4.3 Antennas for the frequency range 9 kHz to 150 kHz	18
4.3.1 General	18
4.3.2 Magnetic field antenna	18
4.3.3 Shielding of loop antenna	18
4.4 Antennas for the frequency range 150 kHz to 30 MHz	18
4.4.1 Electric field antenna	18
4.4.2 Magnetic field antenna	19
4.4.3 Balance and electric field discrimination of antennas	19
4.5 Antennas for the frequency range 30 MHz to 1 000 MHz	19
4.5.1 General	19
4.5.2 Low-uncertainty antenna for use if there is an alleged non-compliance to the electric disturbance field strength limit	19
4.5.3 Antenna characteristics	19
4.5.4 Balance of antenna	21
4.5.5 Cross-polar response of antenna	23
4.6 Antennas for the frequency range 1 GHz to 18 GHz	24
4.6.1 General	24
4.6.2 Receive antenna	24
4.7 Special antenna arrangements – large-loop antenna system	26
5 Test sites for measurement of radio disturbance field strength for the frequency range of 9 kHz to 30 MHz	27
6 Test sites for measurement of radio disturbance field strength for the frequency range of 30 MHz to 1 000 MHz	27
6.1 General	27
6.2 OATS	27
6.2.1 General	27
6.2.2 Weather-protection enclosure	27
6.2.3 Obstruction-free area	27
6.2.4 Radio-frequency ambient environment of a test site	29
6.2.5 Ground plane	29
6.3 Suitability of other test sites	30
6.3.1 Other ground-plane test sites	30
6.3.2 Test sites without ground plane (FAR)	30
6.4 Test site validations	30
6.4.1 General	30
6.4.2 Overview of test site validations	31
6.5 Basic parameters of the NSA method for OATS and SAC	32

6.5.1	General equation and table of theoretical NSA values	32
6.5.2	Antenna calibration.....	35
6.6	Reference site method for OATS and SAC	35
6.6.1	General	35
6.6.2	Antennas not permitted for RSM measurements	36
6.6.3	Determination of the antenna pair reference site attenuation on a REFTS	37
6.6.4	Determination of the antenna pair reference site attenuation using an averaging technique on a large OATS.....	37
6.7	Validation of an OATS by the NSA method	41
6.7.1	Discrete frequency method	41
6.7.2	Swept frequency method	42
6.8	Validation of a weather-protection-enclosed OATS or a SAC	42
6.9	Possible causes for exceeding site acceptability limits	45
6.10	Site validation for FARs	46
6.10.1	General	46
6.10.2	RSM for FAR sites	50
6.10.3	NSA method for FAR sites	52
6.10.4	Site validation criteria for FAR sites	54
6.11	Evaluation of set-up table and antenna tower.....	54
6.11.1	General	54
6.11.2	Evaluation procedure for set-up table influences.....	55
7	Test sites for measurement of radio disturbance field strength for the frequency range 1 GHz to 18 GHz	57
7.1	General.....	57
7.2	Reference test site.....	57
7.3	Test site validation	57
7.3.1	General	57
7.3.2	Acceptance criterion for site validation.....	58
7.4	Antenna requirements for S_{VSWR} standard test procedure	59
7.4.1	General	59
7.4.2	Transmit antenna.....	59
7.4.3	Antennas and test equipment for the S_{VSWR} reciprocal test procedure	62
7.5	Required positions for site validation testing	62
7.5.1	General	62
7.5.2	Descriptions of S_{VSWR} measurement positions in a horizontal plane (Figure 23).....	63
7.5.3	Descriptions of S_{VSWR} additional measurement positions (Figure 24)	64
7.5.4	Summary of S_{VSWR} measurement positions	64
7.6	S_{VSWR} site validation – standard test procedure	67
7.7	S_{VSWR} site validation – reciprocal test procedure using an isotropic field probe	68
7.8	S_{VSWR} conditional measurement position requirements	69
7.9	S_{VSWR} site validation test report.....	70
7.10	Limitations of the S_{VSWR} site validation method.....	71
7.11	Alternative test sites	71
8	Common mode absorption devices	71

8.1	General.....	71
8.2	CMAD S-parameter measurements	71
8.3	CMAD test jig.....	71
8.4	Measurement method using the TRL calibration	73
8.5	Specification of ferrite clamp-type CMAD	75
8.6	CMAD performance (degradation) check using spectrum analyzer and tracking generator.....	76
9	Reverberating chamber for total radiated power measurement	78
9.1	General.....	78
9.2	Chamber	78
9.2.1	Chamber size and shape	78
9.2.2	Door, openings in walls, and mounting brackets	78
9.2.3	Stirrers	79
9.2.4	Test for the efficiency of the stirrers.....	80
9.2.5	Coupling attenuation.....	80
10	TEM cells for immunity to radiated disturbance measurement	81
Annex A (normative)	Parameters of antennas	82
A.1	General.....	82
A.2	Preferred antennas	82
A.2.1	General	82
A.2.2	Calculable antenna	82
A.2.3	Low-uncertainty antennas	83
A.3	Simple dipole antennas	84
A.3.1	General	84
A.3.2	Tuned dipole.....	84
A.3.3	Shortened dipole	84
A.4	Broadband antenna parameters	86
A.4.1	General	86
A.4.2	Antenna type	86
A.4.3	Specification of the antenna	86
A.4.4	Antenna calibration.....	87
A.4.5	Antenna user information	87
Annex B (XXX) (Void)	.....	89
Annex C (normative)	Large-loop antenna system for magnetic field induced-current measurements in the frequency range of 9 kHz to 30 MHz	90
C.1	General.....	90
C.2	Construction of an LLAS	90
C.3	Construction of a large-loop antenna (LLA)	90
C.4	Ⓐ Validation of the LLAS Ⓛ	95
C.5	Construction of the LLAS verification dipole antenna	97
C.6	Conversion factors.....	98
C.6.1	General	98
C.6.2	Current conversion factors for an LLAS with non-standard diameter	98
C.6.3	Conversion of LLAS measured current to magnetic field strength.....	100
C.7	Examples	102
Annex D (normative)	Construction details for open area test sites in the frequency range of 30 MHz to 1 000 MHz (see Clause 6).....	103
D.1	General.....	103

D.2	Ground plane construction	103
D.2.1	Material	103
D.2.2	Roughness	103
D.3	Services to EUT	104
D.4	Weather-protection enclosure construction	104
D.4.1	Materials and fasteners	104
D.4.2	Internal arrangements	105
D.4.3	Size	105
D.4.4	Uniformity with time and weather	105
D.5	Turntable and set-up table	105
D.6	Receive antenna mast installation	106
Annex E (xxx) (Void)	.....	107
Annex F (informative) Basis for ± 4 dB site acceptability criterion (see Clause 6)	.....	108
F.1	General	108
F.2	Error analysis	108
Annex G (informative) Examples of uncertainty budgets for site validation of a COMTS using RSM with a calibrated antenna pair (see 6.6)	.....	110
G.1	Quantities to be considered for antenna pair reference site attenuation calibration using the averaging technique	110
G.2	Quantities to be considered for antenna pair reference site attenuation calibration using a REFTS	111
G.3	Quantities to be considered for COMTS validation using an antenna pair reference site attenuation	112
Annex H (informative) Definition of uncertainty in cross-polar response measurement	.....	113
H.1	General	113
H.2	Example uncertainty estimate	115
H.3	Rationale for the estimates of input quantities in Table H.1 and Table H.3	116
H.4	Measurement of XPR below 100 MHz at an OATS	118
Annex ZA (normative) Normative references to international publications with their corresponding European publications	.....	119
Bibliography	.....	120
Figure 1 – Schematic of radiation from EUT reaching an LPDA antenna directly and via ground reflection at a 3 m site, showing the beamwidth half-angle, φ , at the reflected ray	.....	20
Figure 2 – RX antenna E-plane radiation pattern example, with limit area shaded for 3 m distance and 2 m EUT width	.....	25
Figure 3 – Determination of maximum useable EUT width using half-power beamwidth	.....	25
Figure 4 – Determination of maximum useable EUT height using half-power beamwidth	.....	26
Figure 5 – Obstruction-free area of a test site with a turntable	.....	28
Figure 6 – Obstruction-free area with stationary EUT	.....	29
Figure 7 – Test point locations for 3 m and 10 m test distances	.....	37
Figure 8 – Paired test point locations for all test distances	.....	39
Figure 9 – Example of paired test point selection for a test distance of 10 m	.....	40
Figure 10 – Illustration of an investigation of influence of antenna mast on APR	.....	40

Figure 11 – Typical antenna positions for a weather-protected OATS or a SAC – vertical polarization validation measurements	44
Figure 12 – Typical antenna positions for a weather-protected OATS or a SAC – horizontal polarization validation measurements	44
Figure 13 – Typical antenna positions for a weather-protected OATS or a SAC – vertical polarization validation measurements for a smaller EUT	45
Figure 14 – Typical antenna positions for a weather-protected OATS or a SAC – horizontal polarization validation measurements for a smaller EUT	45
Figure 15 – Measurement positions for FAR site validation	48
Figure 16 – Example of one measurement position and antenna tilt for FAR site validation	50
Figure 17 – Typical quasi free-space test site reference SA measurement set-up	52
Figure 18 – Theoretical free-space NSA as a function of frequency for different measurement distances [see Equation (16)].....	54
Figure 19 – Position of the antenna relative to the edge above a rectangle set-up table (top view).....	56
Figure 20 – Antenna position above the set-up table (side view)	56
Figure 21 – Transmit antenna E-plane radiation pattern example (this example is for informative purposes only)	60
Figure 22 – Transmit antenna H-plane radiation pattern (this example is for informative purposes only)	61
Figure 23 – S_{VSWR} measurement positions in a horizontal plane (see 7.5.2 for description).....	62
Figure 24 – S_{VSWR} positions (height requirements)	64
Figure 25 – S_{VSWR} conditional measurement position requirements	70
Figure 26 – Definition of the reference planes inside the test jig	72
Figure 27 – The four configurations for the TRL calibration	75
Figure 28 – Limits for the magnitude of S_{11} , measured according to the provisions of 8.1 to 8.3	76
Figure 29 – Example of a 50Ω adaptor construction in the vertical flange of the jig	77
Figure 30 – Example of a matching adaptor with balun or transformer	77
Figure 31 – Example of a matching adaptor with resistive matching network	78
Figure 32 – Example of a typical paddle stirrer	79
Figure 33 – Range of coupling attenuation as a function of frequency for a chamber using the stirrer shown in Figure 32	80
Figure A.1 – Short dipole antenna factors for $R_L = 50 \Omega$	85
Figure C.1 – The LLAS, consisting of three mutually perpendicular large-loop antennas	92
Figure C.2 – An LLA containing two opposite slits, positioned symmetrically with respect to the current probe C	93
Figure C.3 – Construction of an LLA slit	93
Figure C.4 – Example of an LLA slit construction using a strap of printed circuit board to obtain a rigid construction	94
Figure C.5 – Construction of the metal box containing the current probe	94
Figure C.6 – Example showing the routing of several cables from an EUT to minimize capacitive coupling from the leads to the LLAS	95
Figure C.7 – The eight positions of the LLAS verification dipole during validation of an LLA	96

Figure C.8 – Reference validation factors for loops of 2 m, 3 m, and 4 m diameters A1	96
Figure C.8 – Construction of the LLAS verification dipole antenna	98
Figure C.10 – Sensitivity S_D of an LLA with diameter D relative to an LLA with 2 m diameter	99
Figure C.11 – Conversion factor C_{dA} [for conversion into dB($\mu\text{A}/\text{m}$)] for three standard measurement distances d	101
Figure D.1 – The Rayleigh criterion for roughness in the ground plane	104
Table 1 – Site validation methods applicable for OATS, OATS-based, SAC, and FAR site types	31
Table 2 – Theoretical normalized site attenuation, A_N – recommended geometries for broadband antennas ^a (1 of 2)	33
Table 3 – Example template for A_{APR} data sets	36
Table 4 – RSM frequency steps	36
Table 5 – Maximum dimensions of test volume versus test distance	46
Table 6 – Frequency ranges and step sizes for FAR site validation	50
Table 7 – S_{VSWR} measurement position designations (1 of 3)	65
Table 8 – S_{VSWR} reporting requirements	70
A1 Table C.1 – Reference validation factors of Figure C.8 for loops of 2 m, 3 m, and 4 m diameters	97
Table C.2 – Sensitivity S_D of an LLA with diameter D relative to an LLA with 2 m diameter (Figure C.10)	100
Table C.3 – Magnetic field strength conversion factor C_{dA} for three measurement distances (Figure C.11)	102
Table D.1 – Maximum roughness for 3 m, 10 m and 30 m measurement distances	104
Table F.1 – Error budget	108
Table G.1 – Antenna pair reference site attenuation calibration using the large-OATS averaging technique	110
Table G.2 – Antenna pair reference site attenuation calibration using REFTS	111
Table G.3 – COMTS validation using an antenna pair reference site attenuation	112
Table H.1 – Example uncertainty estimate for XPR measurement in a FAR and assumed $a_{xpT} = 22 \text{ dB}$, $a_{xpR} = 34 \text{ dB}$	116
Table H.2 – Uncertainties depending on other values of A_{xpT} (other assumptions as in Table H.1)	118
Table H.3 – Example uncertainty estimate for XPR measurement at an OATS and assumed $a_{xpT} = 22 \text{ dB}$, $a_{xpR} = 34 \text{ dB}$	118

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IMMUNITY MEASURING APPARATUS AND METHODS –**

**Part 1-4: Radio disturbance and immunity measuring apparatus –
Antennas and test sites for radiated disturbance measurements**

FOREWORD

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This fourth edition cancels and replaces the third edition published in 2010, Amendment 1:2012 and Amendment 2:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- provisions are added to address test site validation in the frequency range from 30 MHz to 1000 MHz using the reference site method, to take into account the receive antenna radiation pattern in the frequency range from 1 GHz to 18 GHz, and further details on test site validation using the NSA method with broadband antennas in the frequency range from 30 MHz to 1 000 MHz.

International Standard CISPR 16-1-4 has been prepared by CISPR subcommittee A: Radio-interference measurements and statistical methods.

It has the status of a basic EMC publication in accordance with IEC Guide 107, *Electromagnetic compatibility – Guide to the drafting of electromagnetic compatibility publications*.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
CIS/A/1262/FDIS	CIS/A/1275/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of CISPR 16 series, under the general title *Specification for radio disturbance and immunity measuring apparatus and methods*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

[A1] AMENDMENT A1 FOREWORD

This amendment has been prepared by subcommittee CISPR A: Radio-interference measurements and statistical methods, of IEC technical committee CISPR: International special committee on radio interference.

The text of this amendment is based on the following documents:

FDIS	Report on voting
CIS/A/1316/FDIS	CIS/A/1320/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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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

1 Scope

This part of CISPR 16 specifies the characteristics and performance of equipment for the measurement of radiated disturbances in the frequency range 9 kHz to 18 GHz. Specifications for antennas and test sites are included.

NOTE In accordance with IEC Guide 107, CISPR 16-1-4 is a basic EMC publication for use by product committees of the IEC. As stated in Guide 107, product committees are responsible for determining the applicability of the EMC standard. CISPR and its sub-committees are prepared to cooperate with product committees in the evaluation of the value of particular EMC tests for specific products.

The requirements of this publication apply at all frequencies and for all levels of radiated disturbances within the CISPR indicating range of the measuring equipment.

Methods of measurement are covered in Part 2-3, further information on radio disturbance is given in Part 3, and uncertainties, statistics and limit modelling are covered in Part 4 of CISPR 16.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CISPR 16-1-1, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus*

CISPR 16-1-5:2014, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-5: Radio disturbance and immunity measuring apparatus – Antenna calibration sites and reference test sites for 5 MHz to 18 GHz*
CISPR 16-1-5:2014/AMD1:2016

CISPR 16-1-6:2014, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-6: Radio disturbance and immunity measuring apparatus – EMC antenna calibration*
CISPR 16-1-6:2014/AMD1:2017

CISPR 16-2-3:2016, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements*

CISPR TR 16-3, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 3: CISPR technical reports*