

**ElectroMagnetic Compatibility (EMC)
standard for radio equipment and services;
Part 17: Specific conditions for Broadband and
Wideband Data Transmission Systems;
Harmonised Standard for ElectroMagnetic Compatibility
(ETSI EN 301 489-17 V3.3.1 (2024-09))**

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Ersatz für siehe nationales Vorwort

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ÖVE/ÖNORM EN 301 489-17 V3.2.4:2020-11-01.

ETSI EN 301 489-17 V3.3.1 (2024-09)



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Contents

Intellectual Property Rights	4
Foreword.....	4
Modal verbs terminology.....	5
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references.....	7
3 Definition of terms, symbols and abbreviations.....	8
3.1 Terms.....	8
3.2 Symbols.....	8
3.3 Abbreviations	8
4 Test conditions	9
4.1 General	9
4.2 Arrangements for test signals	9
4.2.1 Arrangements for test signals at the input of transmitters.....	9
4.2.2 Arrangements for test signals at the output of transmitters.....	9
4.2.3 Arrangements for test signals at the input of receivers	9
4.2.4 Arrangements for test signals at the output of receivers	10
4.2.5 Arrangements for testing transmitter and receiver together (as a system)	10
4.2.6 Equipment with an external antenna connector	10
4.2.7 Equipment without an external antenna connector (integral antenna)	10
4.2.8 Equipment with more than one antenna.....	10
4.3 Exclusion bands.....	11
4.3.1 General.....	11
4.3.2 Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band.....	11
4.3.3 5 GHz RLAN.....	11
4.3.4 Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems.....	11
4.3.5 6 GHz WAS/RLAN.....	12
4.4 Void.....	12
4.5 Normal test modulation	12
5 Performance assessment.....	12
5.1 General	12
5.2 Arrangements for the assessment of host dependent equipment and plug-in cards.....	12
5.3 Assessment procedures.....	12
6 Performance criteria	13
6.1 General performance criteria	13
6.2 Performance table.....	13
6.2.1 Performance criteria overview.....	13
6.3 Performance criteria for Continuous phenomena	14
6.4 Performance criteria for Transient phenomena	14
7 Requirements.....	14
7.1 Emission	14
7.1.1 General.....	14
7.2 Immunity	15
7.2.1 General.....	15
7.2.2 Special Conditions	16
Annex A (informative): Relationship between the present document and the essential requirements of Directive 2014/53/EU	18
Annex B (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.12] 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 17 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:	23 September 2024
Date of latest announcement of this EN (doa):	31 December 2024
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2025
Date of withdrawal of any conflicting National Standard (dow):	30 June 2026

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 specifies technical characteristics and methods of measurements for broadband and wideband data transmission system equipment including the associated ancillary equipment in respect of electromagnetic compatibility, as detailed in table 1.

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

The present document specifies the applicable test conditions, performance assessment and performance criteria for broadband and wideband data transmission systems as detailed in table 1.

NOTE 1: In the context of the present document, broadband and wideband are interchangeable.

Table 1: Radio Technologies in scope of the present document

Technology	ETSI Standard
Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band	ETSI EN 300 328 [i.8]
5 GHz RLAN	ETSI EN 301 893 [i.3]
6 GHz WAS/RLAN	ETSI EN 303 687 [i.2]
Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems	ETSI EN 302 502 [i.4]
Multi-Gigabit Wireless Systems (MGWS) in the 60 GHz band	ETSI EN 302 567 [i.6]
Wideband Data Transmission Systems (WDTs) for Fixed Network Radio Equipment operating in the 57 GHz to 71 GHz band	ETSI EN 303 722 [i.5]

Technical specifications related to conducted emission EMC requirements below 9 kHz on the AC mains port of radio equipment are not included in the present document.

NOTE 2: Such technical specifications are normally found in the relevant product family standards for AC mains powered equipment (e.g. EN IEC 61000-3-2 [i.13] and EN 61000-3-3 [i.14]).

The environmental classification and the emission and immunity requirements used in the present document are as stated in ETSI EN 301 489-1 [1], except for any special conditions included in the present document.

NOTE 3: The relationship between the present document and essential requirements of article 3.1(b) of Directive 2014/53/EU [i.1] is given in annex A.

2 References

2.1 Normative 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.

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 301 489-1 \(V2.2.3\) \(11-2019\)](#): "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility".