

CTA Standard

**Measurement Procedures for Determining
Compliance with FCC Rules for “Cable-Ready
Consumer Electronics Equipment”**

CTA-23-B R-2014

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**Consumer
Technology
Association**

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(Formulated under the cognizance of the CTA **R4 Video Systems Committee**.)

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FOREWORD

This standard was developed under the auspices of the CEA R4 Video Systems Committee.

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Measurement Procedures for Determining Compliance with FCC Rules for "Cable-Ready Consumer Electronics Equipment"

1 Scope

CEA-23-B defines the measurement procedures for determining compliance with FCC Rules for "Cable Ready Consumer Electronics Equipment", under 47 C.F.R. §15.118(c). These procedures define the specific tests needed to determine compliance with the following requirements:

- §15.118(c)(1) - Adjacent Channel Interference
- §15.118(c)(2) - Image Channel Interference
- §15.118(c)(3) - Direct Pickup Interference
- §15.118(c)(4) - Tuner Overload
- §15.118(c)(5) - Cable Input Conducted Emissions

For convenience and clarification, CEA-23-B also references additional related requirements applicable to television receiving devices and cable television systems. Those additional requirements have test procedures defined in other documents.

1.1 Applicability

CEA-23-B is intended to apply to all cable systems and to all receiving devices which may be directly connected to a cable system residential outlet, including, but not limited to, television sets, video cassette recorders, and converters (whether furnished by cable operators or independently acquired by subscribers).

1.2 Federal Regulations

CEA-23-B assumes that cable operators comply with all federal regulations, including the performance criteria given in 47 C.F.R. §76.605. To the extent that specific performance levels are given in CEA-23-B, they are intended to supplement, not replace federal regulations. If conflicts exist between CEA-23-B and the federal regulations, the stricter of the two will be applicable.

CEA-23-B assumes that television receiving devices comply with all federal regulations, including the performance criteria given in 47 C.F.R. Part 15. To the extent that specific performance levels are given in CEA-23-B, they are intended to supplement, not replace federal regulations. If conflicts exist between CEA-23-B and the federal regulations, the stricter of the two will be applicable.

2 References

2.1 Regulatory Reference List

Federal Communications Commission

- 47 C.F.R. Part 15, Radio Frequency Devices
- 47 C.F.R. Part 76, Multichannel Video and Cable Television Service
- FCC MP-9, "FCC Procedure for Measuring Cable Television Switch Isolation"

2.2 Normative Reference List

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

Consumer Electronics Association

- CEA-542-B, (formerly ANSI/EIA-542 and formerly EIA-132), Cable Television Channel Identification Plan, July 2003