



**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
CISPR 32: 2015, Edition 2.0
Electromagnetic compatibility of multimedia equipment
Emission requirements**

“R” Required
 “S” May be subcontracted, see OD 2012
 “SF” Specialized Facility, see IECEE 02-2
 “W” Witness testing in the categories “MED” and “MEAS”
 “3PPS” Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
A.8, A.9	Conducted emissions from the AC mains power ports	Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), AMN, RF Coaxial Cable, RGP	R
		High Pass Filter, Attenuator	S
A.10, A.11	Asymmetric mode conducted emission on wired network ports and optical fibre ports with metallic shield or tension members	Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), Asymmetric Artificial Network, RF Coaxial Cable, RGP, CMAD	R
		Capacitive Voltage Probe, Current Probe, 150 Ω to 50 Ω adaptor (substitutes for AAN)	S

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
A.2, A.4, A.6, A.7	Measurement of Radiated disturbances up to 1 GHz	Suitable Broadband Linearly Polarised Antenna (e.g. Biconical Antenna, Log-periodic Antenna, or Hybrid Antenna) Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), RF Coaxial Cable, NSA Verification Test Site a) (Semi-anechoic chamber, Open area test site or Full Anechoic Chamber)	R
		Attenuator, Filter, RF Amplifier	S
A.3, A.5, A.7	Measurement of Radiated disturbances above 1 GHz	Suitable Broadband Linearly Polarised Antenna (e.g. Standard Horn, Double Ridged Guide Antenna, etc), Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), RF Coaxial Cable, Free Space Open Area Test Site a) (FSOATS)	R
		Attenuator, Filter, RF Amplifier	S

Additional testing and measuring equipment needed only for testing of TV/FM broadcast receivers and devices with an RF modulator output port (for example video recorders, camcorders, decoders)

A.10, A.11	<i>Asymmetric mode conducted emission on TV/FM broadcast receiver tuner ports</i>	<i>Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), Signal Generator (limited to the broadcast signal specification of EUT)^{b)}, Combining Network, Matching Network</i>	R
A.10, A.11	<i>Asymmetric mode conducted emission on RF modulator output ports (antenna ports)</i>	<i>Receiver or Spectrum analyzer + Preselector + QP adapter (CISPR 16-1-1 compliant), Coaxial cable with Nominal Output Impedance of the EUT, Matching Network</i>	R

- a) *These test sites may be at different locations as the Main CBTL. However, clause 6.1 of IECEE 02-2:2012 applies.***
- b) *The modulation of the RF signal carrier shall be set according to the system for which the EUT is intended. Signal Generators a required to be available for these specification / standards e.g. DVB, DMB-T, ISDB, ATSC only. In the case, the EUT do not support some digital broadcast signal specification e.g. ISDB, ATSC, the CBTL is not required to present such Signal Generators.***