

Federal Communications Commission Office of Engineering and Technology Laboratory Division Public Draft Review

## **Draft Laboratory Division Publication**

Title: Average Detector for Unintentional Radiator FAQ

Short Title: Avg Dect for Part 15B Meas

**Reason:** New Publication

Publication: 714737

Keyword/Subject: 15B, Average Detector for Unintentional Radiator:

First Category: Administrative Requirements

Second Category: Measurements Procedures

**Third Category:** 

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**Question:** What average detector should be used to measure radiated emissions from an unintentional radiator?

**Answer:** The radiated emission limits for unintentional radiators are specified in Section 15.109. There are both average and peak limits on radiated emissions above 1 GHz and Section 15.35 specifies the measurement detector function and bandwidth to be used when performing the required measurements.

There are a number of different types of average detectors available for performing EMI measurements on the market today. Above 1 GHz CISPR 16-1-1 defines two modes of the average detector – linear and logarithmic. For radiated emission measurements at frequencies above 1 GHz the appropriate average detector is the linear average detector as defined in Clause 6 of CISPR 16-1-1.

See CISPR interpretation sheet SC CIS/I/Publication CISPR 22 (2008), Sixth edition/I-SH 01.