

To: <tjohnson@americantcb.com>  
Subject: FDDI test report

Timothy,

I will do the best I can to answer the questions you had in regard to the FDDI application:

In regard to question number 8:

The test item was submitted for testing with a special adaptor used to place 24VDC power onto the CAT 5 cable. The adaptor had a short piece of CAT 5 cable that plugged into the network port of the laptop computer. A long piece of CAT 5 cable was connected to the output of the adaptor and the other end of the CAT 5 cable was connected to the test item.

The special adaptor received 24VDC power from a Motorola P/N: ACPS110, model SADB-1129 power supply. The 115V, 60 Hz power provided to the Motorola power supply was what was tested for conducted emissions. The output of the Motorola power supply is not going to the laptop but is used instead to place 24VDC onto the CAT 5 cable.

I have attached a color photograph of the conducted emissions test setup.

In regard to question number 9:

All radiated emissions tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2001 for site attenuation and the site is listed with the FCC.

In regard to question number 10:

120kHz RBW, with a quasi-peak detector, was used for the data taken on data page 36 (400MHz radiated emissions data).

In regard to question number 11:

Since only ambient levels were noted for the harmonics of the transmit frequency of the test item, it was deemed unnecessary to perform peak to average ratio checks.

A 13dB difference was noted between the unmodulated (CW) output of the test item and the modulated output of the test item.

Testing was performed with the test item operating at the 10Mb/sec rate and the 20Mb/sec rate.

In regard to question number 12:

The restricted bands above 2GHz were checked manually and no emissions were detected that were within 20dB of the limit of 54dBuV/m.

I hope that answered any questions you had.

Sincerely,  
Mark E. Longinotti

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