

**Staff Station (Serial Version) Front****Staff Station (Serial Version) Rear**

4.2 Conducted Emissions

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| Test Standards: | USA: 47 CFR Part 15.207 Canada: RSS-GEN 7.2.2 |
| Frequency Range: | 150kHz to 30 MHz |
| AC Power: | 120 Vac, 60 Hz |
| EUT Type: | Table top |
| Highest Oscillator Frequency: | 400 MHz |
| Measurement Uncertainty: | 5.0 dB (CISPR 16-4: 2002) |
| Conducted Emission Calculation: | Peak Emission (dBuV Peak) = Meter reading (dBuV) + cable loss (dB) + Limiter loss (dB) |

4.2.1 Conducted Emission Test Results (3/16/06)

The conducted emissions recorded on the EUT AC power cord (s), displayed against the limits for CISPR 22, Class B devices are presented on the following pages. Conducted emission amplitudes (dBuV PK) measured with a peak detector are compared with CISPR 22, Class B average limit and displayed on the graph. Where the measured peak detector emission exceeded the average limit, or found to be within 1 dB of average limit, re-measurement using quasi-peak and average detector functions was made. The re-measured emissions are presented in a table below the appropriate table of peak detector emissions, which displays quasi-peak measurements vs. the quasi-peak limit and the average measurements vs. the average limit. A 50-ohm terminator was substituted for the EUT loop antenna in order to eliminate coupling of the fundamental signal onto the AC conductors of the Serial Version of the Staff Station Reader.



Staff Station Reader: Conducted Emission Test Setup



Staff Station Reader (Serial Version): Conducted Emission Test Setup



Staff Station Reader (Serial Version): 50-ohm load on transmitter