

Report of Measurements

Measurements for the Intentional Radiator, and OBW were made in accordance with the procedures and reporting requirements at: Honeywell's OATS (FCC No: 152762 & IC No:573F-1) which is located at: 2 Corporate Center Drive, Melville, NY 11747. Measurements were made in accordance with the procedure and reporting requirements of ANSI C63.4-2003.

A explanation of how the test was run is this document: EXHIBIT 5-1 "Report of Measurements "

The Test Set-Up (C63.4 section 10.1.3) is shown in EXHIBIT 5-2; "Test Setup Photos".

The sequence of testing (C63.4 section 10.1.7) for radiated emissions above 30 MHz is as follows: A preliminary scan was conducted with the receiver antenna close to the EUT in order to identify the emission characteristics of the EUT (C63.4 section 8.3.1.1). The Biconolog antenna and EUT were then placed at the proper separation (3 Meters) with the EUT positioned at 80 cm on a non-conducting turntable. The EUT was rotated on the turntable to maximize the received signal strength, then the receiver antenna height was varied between one (1) and four (4) Meters to further maximize the received reading. Thereafter, the device was again rotated to a peak output position and the antenna height was re-adjusted for maximum received signal. This procedure was re-iterated until there was no further increase in signal level. This procedure was performed with the EUT rotating in three orthogonal planes (C63.4 section 13.1.4.1) to generate a final maximum reading which is recorded on the radiated emissions result sheet. Similar measurements were made to ensure compliance as an unintentional radiator. Note, The Spectrum Analyzer resolution bandwidths were set as follows; Video Bandwidth always set 3X greater than RBW. For radiated emissions below 1 GHz, the RBW = 100kHz and Detector function set to peak. For radiated emissions above 1 GHz, the RBW = 1MHz and Detector function set to peak. For frequency's below 30 MHz a Loop Antenna was used as follows; the center of the EUT & sense loop antenna remain at a constant 1 meter height, and 3 meters apart during the test. The EUT is rotated in three orthogonal planes, the loop antenna is also swept in its yaw axis from 0° to 90° in order to generate a final maximum reading which is recorded on the radiated emissions result sheet. Intentional radiator emissions are recorded in "EXHIBIT 5-3".

For occupied bandwidth measurements, the fundamental shall be within 14 KHz of the center frequency. The Initial Resolution bandwidth <1% of the frequency used. The 99% point will be represented by the 20 db down points between a 1 MHz Resolution Bandwidth and the minimum allowable resolution bandwidth which is 1KHz. OBW is recorded in "EXHIBIT 5-4".

Unintentional radiator emissions ('Class B') are recorded in "EXHIBIT 5-5".

Conducted emissions ('Class B') are recorded in "EXHIBIT 5-6".

Test Equipment (per C63.4 section 10.1.4) is recorded in "EXHIBIT 6".