

Jennifer Sanchez

From: Jennifer Sanchez
Sent: Friday, January 08, 2010 9:29 AM
To: Len Knight
Cc: Jennifer Sanchez; Jenn Warnell; Shawn McMillen
Subject: FW: 81748 Firetide - Request for Information Model 7200
Importance: High
Attachments: EMCS81748B-FCC247 Rev 1.pdf

Hello Len,
Please find attached the response and revised 15C report.

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**Part 15C Report:**

The use of EUT and UUT is not consistent. – Report has been revised throughout to correct the UUT to EUT for consistency.

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Under EUT Specifications lists Primary Power as 12 VDC which seems to contradict the rest of the test report. – Report has been revised to reflect Primary Power as 120/240 VAC

Under EUT frequency ranges: only the 5 GHz band is addressed. – Report has been revised to reflect the 2.4 band (2400 – 2483.5MHz and 5725 – 5850MHz)

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Under support equipment, there are several antennas listed. Is this a typo or is there some configuration where the antennas were considered support and not part of the EUT? – Report has been revised to move the antenna information to the Equipment Configuration table instead of the Support Equipment table.

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Modifications to the EUT are listed but there is no explanation why. According to ANSI C63.4: If any modifications are made to the EUT to bring the EUT into compliance with the appropriate specifications, the test report shall give a complete description of, and reasons for, these modifications. A written statement shall be included with the report, signed by the requester of the tests, that the product will have all of the modifications incorporated into the product when manufactured and placed on the market. The report is not complete without these two signed statements. – the RCA has been sent to Paul, engineer is still waiting on the response.

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Test Setup pictures appear to have inconsistencies with the test setup specifications of ANSI C63.4:2003. Please explain.

*Connect the EUT power cord to one LISN and connect the peripheral or support equipment power cords to a separate LISN, as described in 7.2.1.*

It appears that the power cord for the support laptop does not go to a LISN.

*LISN at least 80 cm from nearest part of EUT chassis.*

It appears that the EUT is closer than 80 cm to the LISN. - The LISN was placed under the turntable during measurements. The LISN was placed on top of the turntable to show that the LISN was used. The laptop was on battery mode. Other pictures without the LISN shown can be found here: [K:\METrak\\_Job\\_Folders\2009\F\Firetide - FIR13\81748\EMC\Archives\81748 CEV Setup \(Outdoor\).JPG](K:\METrak_Job_Folders\2009\F\Firetide - FIR13\81748\EMC\Archives\81748 CEV Setup (Outdoor).JPG)

Is the spectrum analyzer and the laptop on top of the spectrum analyzer part of the EUT peripheral equipment? - No, the laptop is used to control the measurement software, it's not part of the EUT.

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Under test procedures, it states that, "The EUT was placed on a 0.8 m-high wooden table inside a screen room." It appears that the EUT was tested in a semi-anechoic chamber. Testing in a semi-anechoic chamber is acceptable in accordance with C6.4:2003 so long as: *a vertical conducting plane or screen of at least 2 m by 2 m in size, shall be, if required, located 40 cm to the rear of the EUT. The vertical conducting plane or screen shall be electrically connected to the reference groundplane at intervals not greater than 1 m along its entire length through low impedance connections, e.g., 3 cm-wide metal straps.* Does the vertical conducting plane in the test setup pictures meet this requirement? - Report was revised to state "Semi-anechoic chamber" rather than "screen room". Yes, the vertical conducting plane is grounded to the turntable.

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Are there any test setup pictures showing the 5 dBi antennas? If not, how was the EUT setup for Radiated Spurious with the 5 dBi antennas? - The report was revised to add the 5dBi setup picture.