OMAP35x-10 SOM-LV Radiated Emissions Scan: 30 MHz – 1 GHz

White Paper 423

Logic // Products
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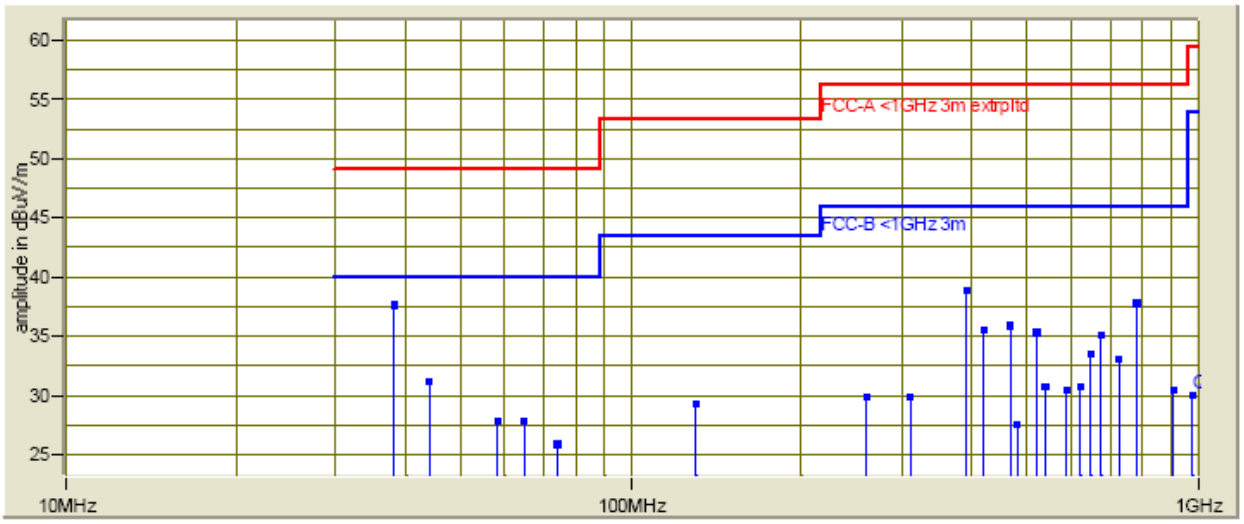
Revision History

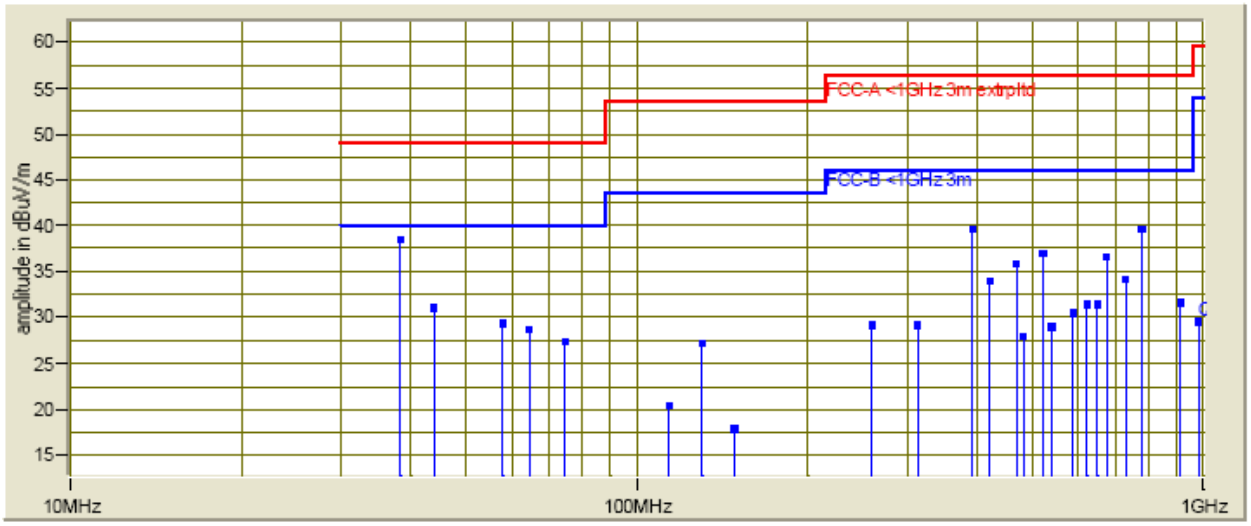
REV	EDITOR	DESCRIPTION	APPROVAL	DATE
A	JCA	-Initial release	PO	11/18/09
B	JCA	-Section 2: Updated the test equipment and setup descriptions per the test facility.	PO	03/31/10

1 OMAP35x-10 SOM-LV Radiated Emissions Scans: 30 MHz – 1 GHz

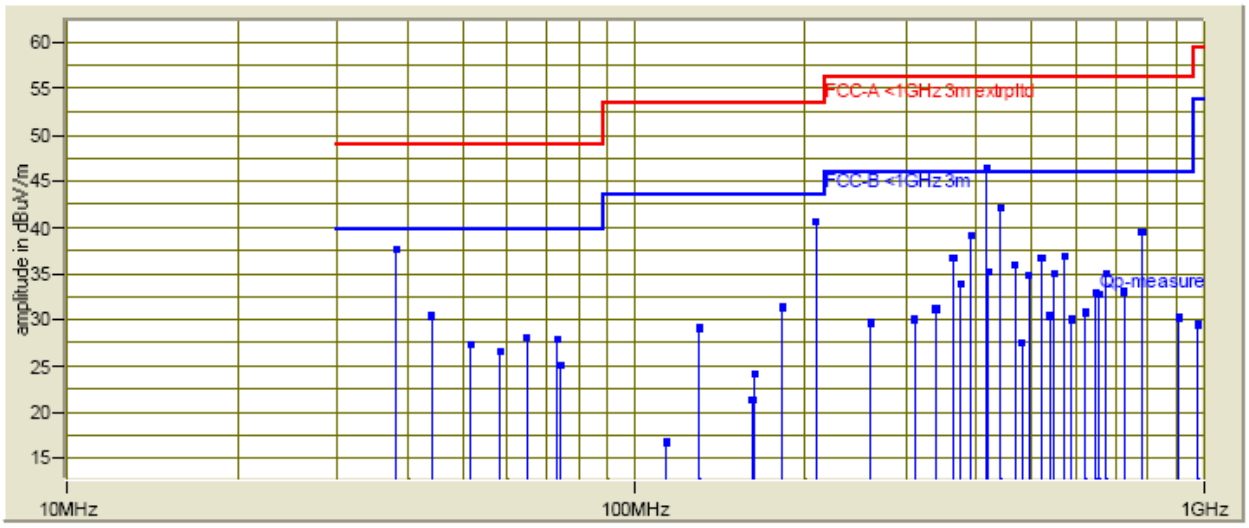
1.1 Wi-Fi Turned OFF, Bluetooth Turned OFF Test Results



1.2 Wi-Fi Turned ON, Bluetooth Turned OFF Test Results

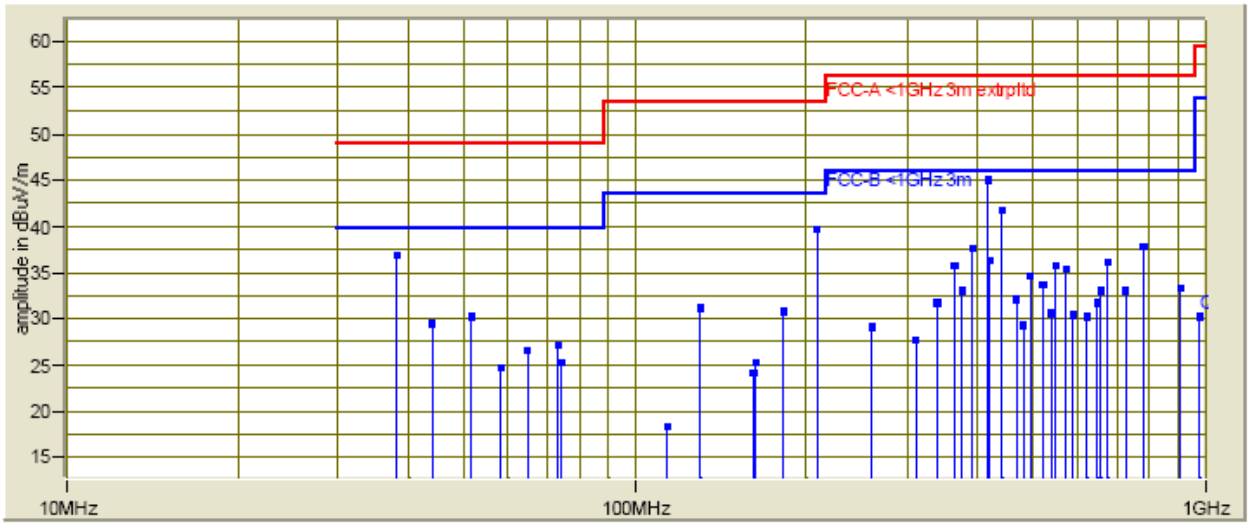


1.3 Wi-Fi Turned OFF, Bluetooth Turned ON Test Results



NOTE: One plot point in the above graph exceeds the limits for FCC Class B. This was a result of a software error that incorrectly setup Bluetooth causing the output to be overdriven. The software error has been corrected; however, there has not been an opportunity to re-scan the SOM. Once a new test has been conducted, this document will be updated with the results.

1.4 Wi-Fi Turned ON, Bluetooth Turned ON Test Results



2 FCC Class A Testing

2.1 Test Equipment

The OMAP3530-10 SOM-LV was scanned to the FCC Class A standard using the calibrated open air test site (OATS) at TUV, in Taylor Falls, MN.

2.2 Test Setup

The test results were obtained by running the OMAP3530-10 SOM-LV on a standard development kit baseboard, powered by the standard kit 5V power supply. A standard 50 ohm Wi-Fi antenna (5/8 wave) was connected to the Wi-Fi and Bluetooth antenna connectors on the SOM-LV; only the 5V power supply was connected to the baseboard.

