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Attention: Roland W. Gubisch **Phone:** 978-635-8500

From: Aaron Sargent **No of pages:** 1

Date: 03 May 2003

Subject: Clarification of SAR test data for reports M030324 & M030330

EMC Technologies SAR Test Reports: **M030324 (FCC ID: AA02101902)**
M030330 (FCC ID: AA02101903)

Dear Roland

Please find our response to your questions listed below:

Q1) *Table 1 on page 5 of both reports lists "Maximum Conducted Output Power Measured." In clause 2.4 beneath the table is the sentence: "The conducted output power of the device, was not measured due to lack of a suitable antenna port."*

My question: if conducted output power was not measured, how was it obtained in Table 1 above?

A1) On completion of the SAR tests the test samples were modified to accept a standard RF connector at the RF output of the device. Circuit diagrams were supplied by ITS Hong Kong to enable these modifications to be undertaken. The conducted power of the device was subsequently measured with a calibrated Power Meter.

Q2) *SAR Measurement Results in Table 12, page 16 of both reports, lists the 1g measured SAR at 100% duty cycle (column 6), the extrapolated results for 50% duty cycle and measured drift (column 7), and the measured drift (column 8). I would have expected the mathematics relating columns 6 - 8 to be something like:
Column 7 = (Column 6 - column 8)/2 or similar. However, that does not seem to be the case.*

My question: please explain the mathematical relationship among columns 6, 7 and 8 of the reported SAR data.

A2) The relationship is as follows:

Column 7 = [Column 6 * InvLog(|Column 8|/10)]/2

The drift is converted to a percentage increase before being multiplied by the corresponding SAR value. The resulting value is then divided by a factor of 2.

Kind Regards

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