



Date: 28 April 2011

Federal Communications Commission
Office of Equipment Technology
Equipment Authorizations

Sent via E-Mail

Re: FCC Correspondence Number 100000, in Inquiries 97770 & 97771, for FCC ID: IHDP56LS1, TC258043.

Dear Sir or Madam,

Motorola Mobility, Inc., 8000 W. Sunrise Blvd.; Suite A; Plantation, FL, herein submits its response to your 13 April 2011 request for further information on FCC ID: IHDP56LS1.

Q 1. The exhibit entitled "3G Wireless Hotspot" identifies conditions under which WWAN power is reduced; i.e., as long as there is no voice activity at the earpiece of the handset, including conditions when there is no voice call in progress (therefore, no audio signal to the earpiece), power reduction to the hotspot mode is enforced when the conditions listed are all satisfied. To confirm the nominal/design power reduction levels, the pre-TCB testing guidance KDB discussions had requested two sets of localized / single-point SAR results for channels and modes which have power reduction, one set where WWAN power not "limited" i.e. max WWAN, and one set with "trigger" conditions applicable so WWAN power is reduced. The recommended test set-up was use back face/surface of phone at flat phantom 0 cm or 1 cm spacing, and probe at a few mm away from phantom inner surface (e.g. 3-5 mm depending on probe). The "3G Wireless Hotspot" exhibit includes single-point field strength (V/m) results comparing reduced and not-reduced transmit conditions, however it is unclear whether/how these V/m results demonstrate / correspond with dB reduction levels listed in terms of output power - please revise to provide explanation and/or re-test where appropriate.

Concerning the reported power reduction verification test, results are listed as V/m, therefore in terms of 20 LOG:

9262	6.1
9400	6.9
9538 5	.8

If 10 LOG MIGHT be valid, then:

9262	3
9400	3.4
9538	2.9

However design/spec/claimed dB levels are:

9262	3.7
9400	4.7
9538	3.3

Please amend filing to provide more explanation whether/how that spot data supports the design/spec level, and/or retest or other filing revisions if appropriate.

Response:

Your observations are correct. The original data submitted demonstrated that power cutback was occurring, but do not adequately show the planned magnitude of the cutbacks for various channels. We attempted to re-make these measurements, but low field strengths and reproducibility issues prevented our obtaining the clear results desired. As a result, Motorola decided to provide conducted power measurements, and a phone which was modified to permit a conducted measurement of power while operating in the personal hotspot mode. You will recall that the software design intent is to allow cutback only when (among other conditions) the phone is operating in the radiated mode. The experimental details and results are submitted herewith.

If you have any questions, please contact me at (954) 723-6272, or via e-mail.

Sincerely,

John Lewczak (signed)

Engineering Manager
Product Safety and Compliance
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