



November 20, 2000

Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT5AG1).

Prepared by:

Steven Hauswirth, Staff Electrical Engineer

Motorola Personal Communications Sector Product Safety Laboratory

Libertyville, Illinois

## Contents

- 1) Summary of FCC request for additional information
- 2) Body-worn SAR Evaluation

## 1. Summary of FCC request for additional information

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDT5AG1) dated October 16, 2000. The requested information may be summarized as follows:

The manual has included a body-worn statement but there is no body-worn SAR data submitted for this filing; please clarify and submit body-worn results. The same section of the manual asks users to ensure the antenna is at least 2.5 cm from their body when body-worn accessories are not used. This statement is only applicable if the peak SAR is due to the antenna only. It would not apply if the peak SAR is due to other parts of the handset. In order for the 2.5 cm to be applicable, both head and body-worn SAR results must support this distance; please review and revise accordingly if necessary

## 2. Body-worn SAR Evaluation

Body-worn SAR was addressed by testing SAR with a minimum separation distance of 2.5cm between the back of the phone and the flat phantom. The channel that gives the highest head adjacent SAR (mid channel - chn #384) was tested for body-worn use. The SAR results for head adjacent use that were given in the previous submission had the base of the antenna 2.0cm away from the phantom for the left side head, which is the closest. The test result for the body-worn configuration is included in the following page.

# 042600/A

Ch# 384 / Type of Modulation: CDMA 800 / Body Worn Evaluation

Amy Twin Optics OFF; Section 1

Probe: ET3DV6 - SN1390 - Muscle ( Sugar Water ); ConvF(6.70,6.70,6.70); Crest factor: 1.0; Muscle 835 MHz:  $\sigma = 1.06$  mho/m  $\epsilon_r = 52.1$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: Peak: 0.407 mW/g, SAR (1g): 0.273 mW/g, SAR (10g): 0.190 mW/g, (Worst-case extrapolation)

