



MOTOROLA

Date: February 5, 2003

Subject: Request for additional information (FCC ID: IHDT56AS1 Class II Permissive Change)

Reference:

Logged-In Date:	1/27/2003
Correspondence Reference Number:	230203.IHD
Confirmation Number:	TC3023
Date of Original Email:	02/03/2003

Prepared by:

Steven Hauswirth
Motorola Personal Communications Sector Product Safety Laboratory
Harvard, Illinois

Andrew Bachler, Principal Staff Engineer
Motorola Personal Communications Sector
Libertyville, Illinois

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 IHDT56AS1) dated January 23, 2003. The requested information may be summarized as follows:

1) Please provide justification for the probe conversion factor used for 1900 MHz Body measurements per OET 65 Supp. C.

Response: The calibration certificate for the probe utilized (Probe SN1522), page 2 of 8 shows that the conversion factor for 1800MHz & 1900MHz head is 3.4. This is the value that was used for testing in the original filing. Since simulated tissue targets are the same for both 1800 & 1900 MHz head and the conversion factor for both 1800 & 1900 MHz head is the same, it is also true for body-worn that both 1800 & 1900 MHz share the same conversion factor ('3.1' for Probe SN1513) since they share the same simulated tissue targets. This is demonstrated in all newly calibrated probes from SPEAG. These new calibration sheets show that the 1800MHz & 1900MHz body do share the common conversion factor. I call your attention to Page 2 of 2 of the probe calibration report. This page shows that the probe conversion factor for 1800MHz body is $3.1 \pm 8\%$. It also shows that the probe conversion factor for 1950MHz body is $3.0 \pm 8\%$. With the given $\pm 8\%$ uncertainty for each of these values in mind, there is no difference between the probe conversion factors for 1800MHz and 1950MHz body tissue.

2) Please provide photographs of the leather holster.

Please see attached photos of the Cellular Phone inside of the leather holster.







3) Please provide an explanation for the difference in SAR value from the original maximum PCS mode Head SAR of 1.27 W/kg and the new maximum PCS Head SAR of 0.201 W/kg.

This product had minor cost reduction and product improvement changes made that impacted the PCS band SAR. Also, the original filing submitted on Dec 8, 2000 had the SAR measurements performed to the previous SAR testing methodology and were performed using the previous phantom head. This phantom head had a different shape that cause the phone to be in a different proximity to the head.