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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT6CH1)

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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 IHDT6CH1). The requested information is addressed below:

1) Justification for the conversion factor used for the body measurements. The calibration certificate states that a CF of 5.0 was given at 1800 MHZ. The SAR plots show 5.0 was used for testing at 1900 MHZ. Provide new SAR data as appropriate.

RESPONSE: Since the conversion factor for both 1800 & 1900 MHz head is the same '5.41' (Original SAR report Appendix 4: page 25), it is also true for body worn that both 1800 and 1900 MHz share the same conversion factor of '5.0'.

2) Revised users manual. The frequency range stated on page i suggests the manual is for a different device.

RESPONSE: The frequency range stated in the draft copy and submitted as exhibit 8 was in error and is being corrected. This product is targeted to a Spanish language market and the English manual was provided only for the FCC submission. The Spanish manual did not contain the error and is submitted as exhibit 8A for your reference.

3) Clarification if the substitution method was used for the radiated power measurement. Substitution method does not appear to have been used according to the procedure provided. Provided new data using the substitution method if not.

RESPONSE: Yes, the radiated power measurement procedure uses the dipole substitution method.

4) Additional descriptive information of the SAR measurement system to meet Supplement C Appendix B part II recommendations. Please include details of the E-field probe, scan procedures, calculations, Robot and computer.

RESPONSE: The DASY v3.1 system specified in section 3.1 of the original filing SAR Test report was utilized within the intended operations as set by the SPEAG™ setup. The default style of "coarse" and "cube" scans were chosen and use for measurements. The grid spacing of the course scan was 15cm as shown

in the SAR plots. Please refer to the DASY manual for additional information on SAR scanning procedures and algorithms used.

5) New uncertainty budget. Please use the draft P1528 template.

RESPONSE: Motorola is working on developing an uncertainty budget per the format shown in IEEE P1528. We have received many suggested values for various line items in the budget from SPEAG™. In order to verify that these values were determined per the methods indicated in IEEE P1528, we have requested, from SPEAG™, how these values were determined. Subsequently, there has been a lot of input from various members of the committee suggesting that certain line items be changed. Also, values for the line items under the *Test Sample Related* section of the budget are device specific and must be determined by the test location. Motorola is currently performing various studies to determine what these values should be for our products. We expect to have a complete uncertainty budget per IEEE P1528 available in late July.

6) SAR system manufacturer system verification data.

RESPONSE: The calibration certificate for the dipole used for system accuracy verification is attached in Appendix 1 of this document.

7) Confirmation that the leather pouch MOTPT0076L does not contain any metallic parts. If not please provide SAR data with this accessory.

RESPONSE: The Leather pouch MOTPT0076L does not contain any metallic component. The data for this particular accessory was not provided in the original SAR report because the leather pouch with any of the two plastic belt clips (SYN8631/SYN8763) demonstrates a greater distance from the body as compared to the other pouch whose SAR data has been provided in the original report. Two pictures of front and back part of the leather pouch (MOTPT0076L) are included in appendix 2.

Appendix 1

Dipole Calibration Sheet

Interim Dipole Correlation Certificate

FCD-0359, Rev.001

Dipole Serial Number:

280(TR)

Last Calibration Date:

4-Jan-01

Dipole Type (MHz):

DIP00V2 w/ Teflon Rings

Calibration Due:

4-Jan-03

Manufacturer:

SPEAG

-Manufacturer's Original Calibration Information-

Dipole to be correlated: [Serial Number: 280(TR)]

1g SAR normalized to 1W forward power (mW/g):	44.4mW/g
Relative Dielectric:	40.0
Conductivity:	1.71
Probe Serial Number:	1507
Forward Power:	250mW

Primary Dipole Referenced: [Serial Number: 246(TR)]

1g SAR normalized to 1W forward power (mW/g):	38.8 mW/g
Relative Dielectric:	39.6
Conductivity:	1.37
Probe Serial Number:	1507
Forward Power:	250 mW

-Correlation Method Utilized- per DOI-1265

(select one)

By Similarity:

By Transfer Calibration:

-Measured Data-

Probe S/N:	1375	Conductivity (meas.):	1.38
Robot Cell #:	HVD-4	Permittivity (meas.):	38.4

Primary Standard (average of 0-degree & 90-degree 1g cubes):

3.315 mW/g	(if required)	(if required)
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Secondary Standard (average of 0-degree & 90-degree 1g cubes):

3.2 mW/g	(if required)	(if required)
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-NEW Correlated Target-

1g SAR normalized to 1W forward power (mW/g):	38.8 mW/g
Relative Dielectric:	39.6
Conductivity:	1.37

Approved by:

Antonio Ferone

Date:

3/8/02

Comments:

Secondary dipole measured +0.9 % from primary dipole.

Appendix 2.

Pictures of Accessory

