



MOTOROLA

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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT6CN2)

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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 IHDT6CN2). The requested information is addressed below in the same numbering sequence received.

1. Please provide justification for no head SAR tested with bluetooth turned on.

Response: The Bluetooth module allows data connectivity to another device (ie: laptop, printer, carkit, headset, etc..). It is not an intended condition to be using the data connectivity of the bluetooth module while the phone in a normal ("head-adjacent") phone call. Therefore SAR testing was not performed with the Bluetooth module turned on for the head tests. One intended condition is with the Bluetooth module wirelessly connected to a headset. This would allow the phone to be in a body-worn configuration with the Bluetooth module and GSM transmitters transmitting simultaneously. Therefore the body-worn configuration was tested with and without the Bluetooth module and GSM transmitter transmitting simultaneously.

2. Please clarify the dielectric parameters measured on 07/29/03 for 1880 MHz Head as shown on Page 4 of the SAR report. The dielectric parameters given do not agree with the Validation Plots.

Response: The dielectric parameters measured on 07/29/03 for 1800MHz head as shown on Page 4 of the SAR report do agree with the SAR plot on page 21 of the SAR report. This represents the highest measured SAR for the GSM1900 cheek touch position. The dielectric parameters used for the daily system validation on 07/29/03 are shown in the table on page 5 of the SAR report (and the plots on pages 12 & 14). These values used for the daily system validation are slightly different than those used for the head measurements because they are physically a different setup of tissue stimulant. The description of the daily system validation setup is given on page 5 of the SAR report.

3. Please correct page 5 and 6 of the SAR report. The Validation for 1800 MHz for Probe S/N: 1501 on 07/29/03 and for Probe S/N: 1502 on 07/31/03 do not agree with the validation plots.

Response: After checking the tables on pages 5 and 6 of the SAR report against the validation plots on pages 12 & 15, we do not find any discrepancies.

4. SAR head plots are tested with incorrect dielectric parameters, as listed. Please re-evaluate with changed SAR data pages, if appropriate.

Response: The table on page 4 shows the dielectric parameters used for the head tests. This table was inadvertently missing the values for the 07/31/03 plot on page 19 of the SAR report. An updated table is given below. It can be seen that dielectric parameters used for the head tests are within the required +/- 5% from the target values given in Supplement C.

<i>f</i> (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ϵ_r	σ (S/m)	Temp (°C)
1880	Head	Measured, 29-Jul-03	39.0	1.46	19.9
		Measured, 31-Jul-03	40.1	1.43	19.7
		Recommended Limits	40.0	1.40	20-25
	Body	Measured, 29-Jul-03	51.2	1.59	19.8
		Recommended Limits	53.3	1.52	20-25