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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT5FA1)

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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: IHDT5FA1). The requested information is addressed below in the same numbering sequence received.

1. Please verify that the test equipment has been configured accordingly with respect to IS-2000 protocol for the uplink and downlink to establish the required communication link.

RESPONSE: To test voice calls on the DUT, the test equipment was configured to use "all up bits" for RC1 / SO2 on J-STD-008 for CDMA 1900MHz and TSB-74 for CDMA 800MHz on the Agilent E8285A CDMA Mobile Station test set.

2. Please verify that the EUT has been tested according to its design and network operating capabilities with respect to the different Radio Configurations (RC) available for each of its Service Options (SO) and data rates.

RESPONSE: Please see answer to inquiry #3 below.

3. Other than RC1 & RC2, the output power for the other RC's could be dependent on the data rate and number of concurrent channels (supplemental channels). Please verify that the maximum output power (for RF exposure purposes) has been determined with respect to these relevant parameters (for example, through the use of power meter measurements). There should be sufficient information in the test report to allow all of these various configurations to be identified. In other words, identify the device capabilities with respect to IS-2000 protocol and operating requirements. Based on the identified applicable configurations, identify which RC's and SO's are applicable for testing the EUT for SAR compliance. The relevant parameters used to setup the equipment and test device; for example, base station simulator, should be identified to the extent that will enable the tests to be repeated with minimal difficulties and variations using equivalent equipment.

RESPONSE: Motorola IS2000 CDMA cellular phones can not perform simultaneous voice and data connections. The voice mode does not use different data rates or concurrent channels (supplemental channels), thus testing voice modes using RC1 is applicable. Motorola IS2000 CDMA products do use supplemental channels and different data rates for data mode. The output power of the DUT is controlled by a power control loop within the DUT. This power control loop measures the total RF power supplied into the antenna match network for emission. This output power measurement will include the power from different data rates and concurrent channels. The measured power level is controlled and limited to the maximum output power setting for the phone. Motorola performs SAR tests of IS2000 CDMA phones at this maximum power level using RC1 / SO2, thus the output power under this test setup is equivalent to the maximum output power for any data rate and/or concurrent channel capability of the DUT.