Exhibit 11: SAR Test Report: IHDT56BG1

Date of test:	June 19, 2001
Laboratory:	Motorola Personal Communications Sector Product Safety Laboratory 2001 N. Division Room: AS228 Harvard, Illinois 60033
Test Responsible:	Steven Hauswirth Staff Engineer
Accreditation:	ISO Guide 25 Accredited Lab, A2LA certificate #1651-01
Statement of Compliance:	Motorola declares under its sole responsibility that portable cellular telephone FCC ID IHDT56BG1 to which this declaration relates, is in conformity with the appropriate RF exposure standards, recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Motorola encourages all feedback, both positive and negative, on this test report.

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Reference Notes

1. Introduction

The Motorola Personal Communications Sector Product Safety Laboratory has performed measurements of the maximum potential exposure to the user of portable cellular phone FCC ID IHDT56BG1. The Specific Absorption Rate (SAR) of this product was measured. The portable cellular phone was tested in accordance with the latest available test guidelines. The SAR values found for the portable cellular phone (FCC ID IHDT56BG1) are below the maximum recommended levels of 1.6 W/kg. Detailed procedures of the test are described in the *Motorola Exhibit 11 Reference SAR Test Report*.

2. Description of the Device Under Test

Antenna description

Type	Fixed Dual Band
Location	Front hinge, top left side
Configuration	Stub

Device description

FCC ID Number	IHDT56BG1	
Serial number	19060101	
Mode(s) of Operation	CDMA800	CDMA1900
Modulation Mode(s)	CDMA	CDMA
Maximum Output Power Setting	24.90dBm	25.20dBm
Duty Cycle	1:1	1:1
Transmitting Frequency Rang(s)	824-849MHz	1851-1909MHz

3. Test Results

The SAR results shown in table 1 are the maximum SAR values averaged over 1 gram of phantom tissue. Also shown are the measured conducted output powers.

The test sample was operated in a test mode that allows control of the transmitter without the need to place actual phone calls. For the purposes of this test the unit is commanded to test mode and manually set to the proper channel, transmitter power level and transmit mode of operation. The phone was then placed in the SAR measurement system with a fully charged battery.

A full data set output of two test conditions with the highest SAR values from the Dasy™ measurement system is included as appendix 2. The test conditions included are indicated as bold numbers in the following table. All other test conditions measured lower SAR values than those included.

f (MHz)	Description	Conducted Output Power (dBm)	SAR, 1g (W/kg) Plastic Holster Ant Fixed
Digital 800MHz	**Channel 1013**	24.85dBm	**0.085**
	Channel 384	25.16dBm	0.054
	Channel 779	25.05dBm	0.071
Digital 1900MHz	**Channel 25**	27.33dBm	**0.457**
	Channel 600	26.90dBm	0.448
	Channel 1175	25.14dBm	0.241

Table 1: SAR measurement results for the portable cellular telephone FCC ID IHDT56BG1 at highest possible output power. Measured against the body.

4. Test Equipment Used

4.1 Dosimetric System

The Motorola Personal Communications Sector Product Safety Laboratory utilizes a Dosimetric Assessment System (Dasy3™) SAR measurement system manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±12.0% (K=1).

Description	Serial Number	Cal Due Date
DASY3 DAE V1	SN383	3/1/02
E-Field Probe ETDV6	SN1506	10/6/01
Dipole Validation Kit, DV900V2	SN79	10/26/02
Dipole Validation Kit, DV1800V2	SN250	9/29/01

4.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3847A04810	11/15/02
Power Meter E4419B	GB39511087	11/14/01
Power Sensor E9301A	US39211007	11/28/02

5. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ε_r, and the conductivity, σ, of the tissue simulating liquids were measured with HP85070 Dielectric Probe Kit These values are shown in the table below. The mass density, ρ, used by the dosimetric system is also given. Recommended limits for maximum permittivity, minimum conductivity and maximum mass density are also shown. These come from the Federal Communication Commission, "Tissue Dielectric Properties" web site at http://www.fcc.gov/fcc-bin/dielec.sh. It is seen that the measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			e_r	s (S/m)	r (g/cm^3)
836	**Body**	**Measured,** 6/19/01	50.45	1.06	1.00
		Recommended Limits	56.11	0.94	1.04
1880	**Body**	**Measured,** 6/19/01	51.02	1.71	1.00
		Recommended Limits	54.33	1.43	1.04

6. System Accuracy Verification

A system accuracy verification of the DASY3 was performed using the measurement equipment listed in Section 4. The test was conducted on the same day as the measurement of the DUT. The obtained results are displayed in the table below. The distributions of SAR compare well with those of the reference measurements (see Appendix 1).

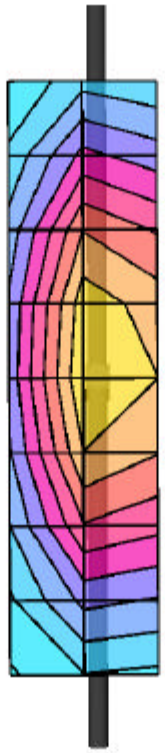
f (MHz)	Description	SAR (W/kg), 1gram	Dielectric Parameters		Temp (°C)
			e_r	s (S/m)	
800	**Measured**	10.0	0.88	43.03	22.7
	Recommended Limits	10.2	0.85	40.00	N/A
1800	**Measured**	39.32	1.75	39.82	23.0
	Recommended Limits	42.78	1.68	40.70	N/A

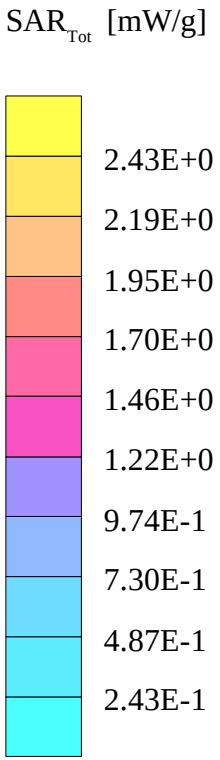
Appendix 1

SAR distribution comparison for the system accuracy verification

Dipole 900 MHz

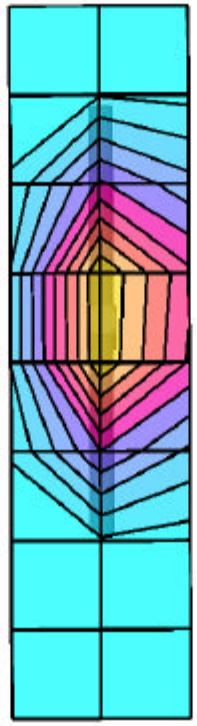
900 MHz Dipole Validation / Dipole Sn# 79 / Forward Power = 252mW / Temp at time of measurement 22.7 C.
Robot 2 Amy Twin Optic OFF; Section 1
Probe: ET3DV6 - SN1506 - Validation; ConvF(6.44,6.44,6.44); Crest factor: 1.0; Validation 900 MHz: σ = 0.88 mho/m ε_r = 43.0 ρ = 1.00 g/cm^3
Cubes (2): Peak: 3.97 mW/g ± 0.02 dB, SAR (1g): 2.52 mW/g ± 0.02 dB, SAR (10g): 1.62 mW/g ± 0.02 dB, (Worst-case extrapolation)
Penetration depth: 12.3 (10.9, 14.1) [mm]
Powerdrift: 0.00 dB

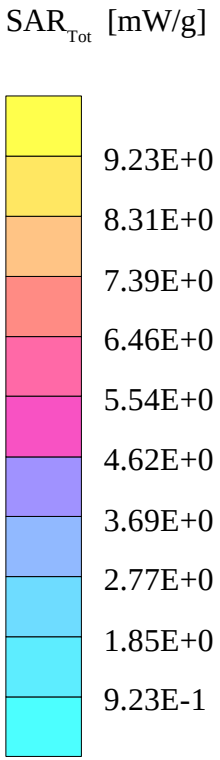




Dipole 1800 MHz

1800 MHz Dipole Validation / Dipole Sn# 250 / Forward Power = 249mW / Temp at time of measurement 23.0 C.
Robot 2 Amy Twin Optic OFF; Section 1
Probe: ET3DV6 - SN1506 - Validation; ConvF(5.87,5.87,5.87); Crest factor: 1.0; Validation 1800 MHz: σ = 1.75 mho/m ε_r = 39.8 ρ = 1.00 g/cm^3
Cubes (2): Peak: 19.1 mW/g ± 0.02 dB, SAR (1g): 9.79 mW/g ± 0.00 dB, SAR (10g): 4.91 mW/g ± 0.02 dB, (Worst-case extrapolation)
Penetration depth: 7.2 (6.8, 8.0) [mm]
Powerdrift: -0.05 dB



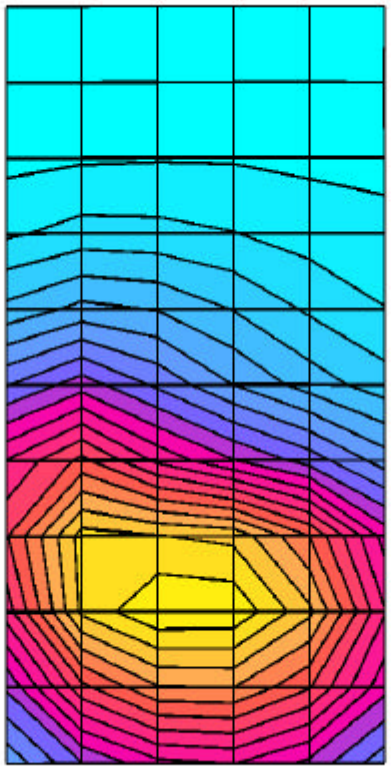


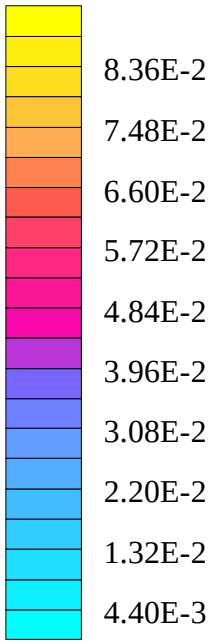
Appendix 2

SAR distribution plots for Body Worn Configuration

s/n 19060101

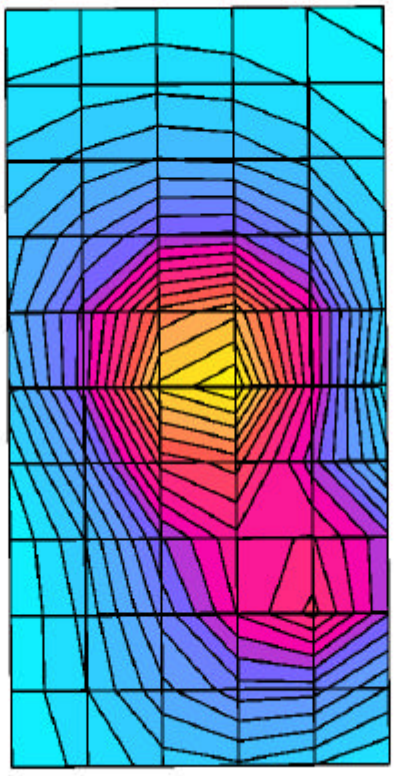
Ch# 1013 / Pwr Step: Always Up / Antenna Position: Fixed / Type of Modulation:800 CDMA
Robot 2 Amy Twin Optic OFF Phantom; Section2 Section; Position: (0°,0°); Frequency: 824 MHz
Probe: ET3DV6 - SN1506 - Muscle (Sugar Water); ConvF(6.53,6.53,6.53); Crest factor: 1.0; Muscle 835 MHz: σ = 1.06 mho/m ε_r = 50.5 ρ = 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 0.0847 mW/g, SAR (10g): 0.0607 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 16.2 (14.3, 18.3) [mm]
Powerdrift: 0.12 dB

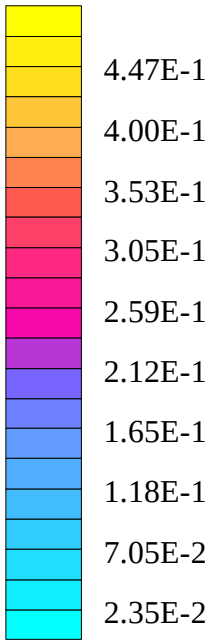




s/n 19060101

Ch# 25 / Pwr Step: Always Up / Antenna Position: Fixed / Type of Modulation:1900 CDMA
Robot 2 Amy Twin Optic OFF Phantom; Section2 Section; Position: (0°,0°); Frequency: 1851 MHz
Probe: ET3DV6 - SN1506 - Muscle (Glycol); ConvF(5.30,5.30,5.30); Crest factor: 1.0; Muscle Glycol 1900 MHz: σ = 1.71 mho/m ε_r = 51.0 ρ = 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 0.457 mW/g, SAR (10g): 0.273 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Penetration depth: 10.0 (8.8, 11.8) [mm]
Powerdrift: -0.20 dB





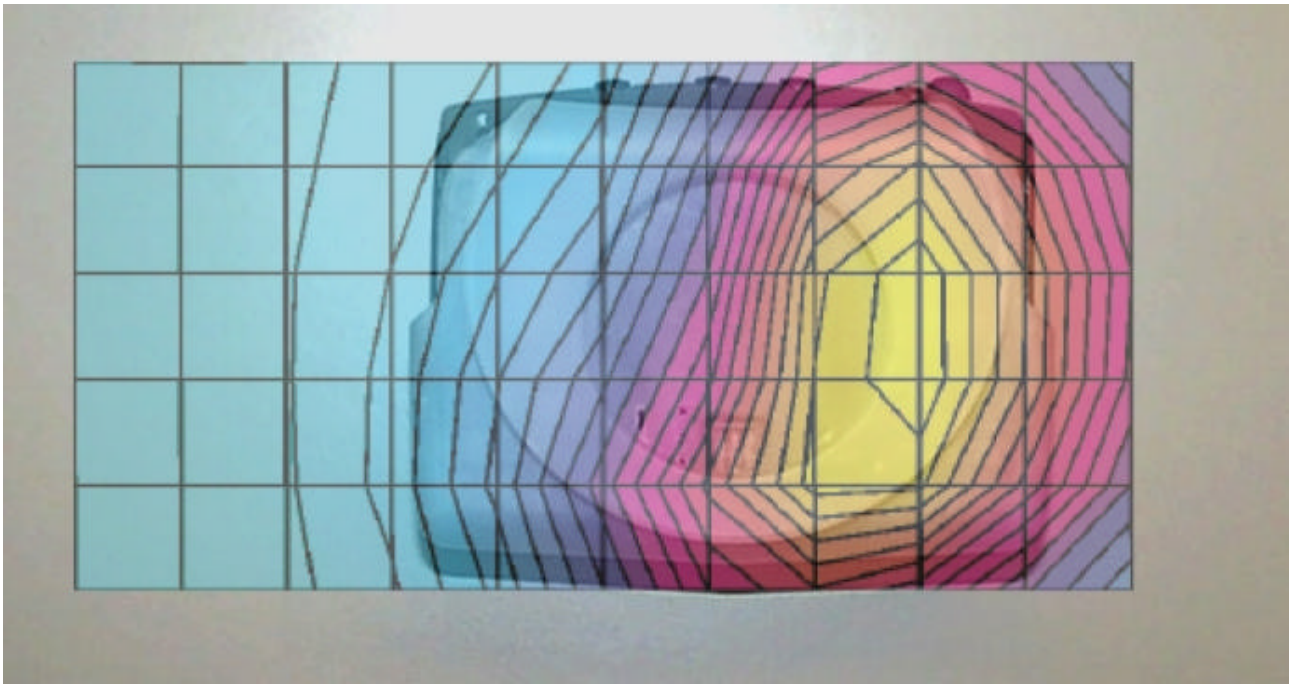


Figure 1. Typical 800MHz Contour Plot Overlaid on Body Worn Accessory

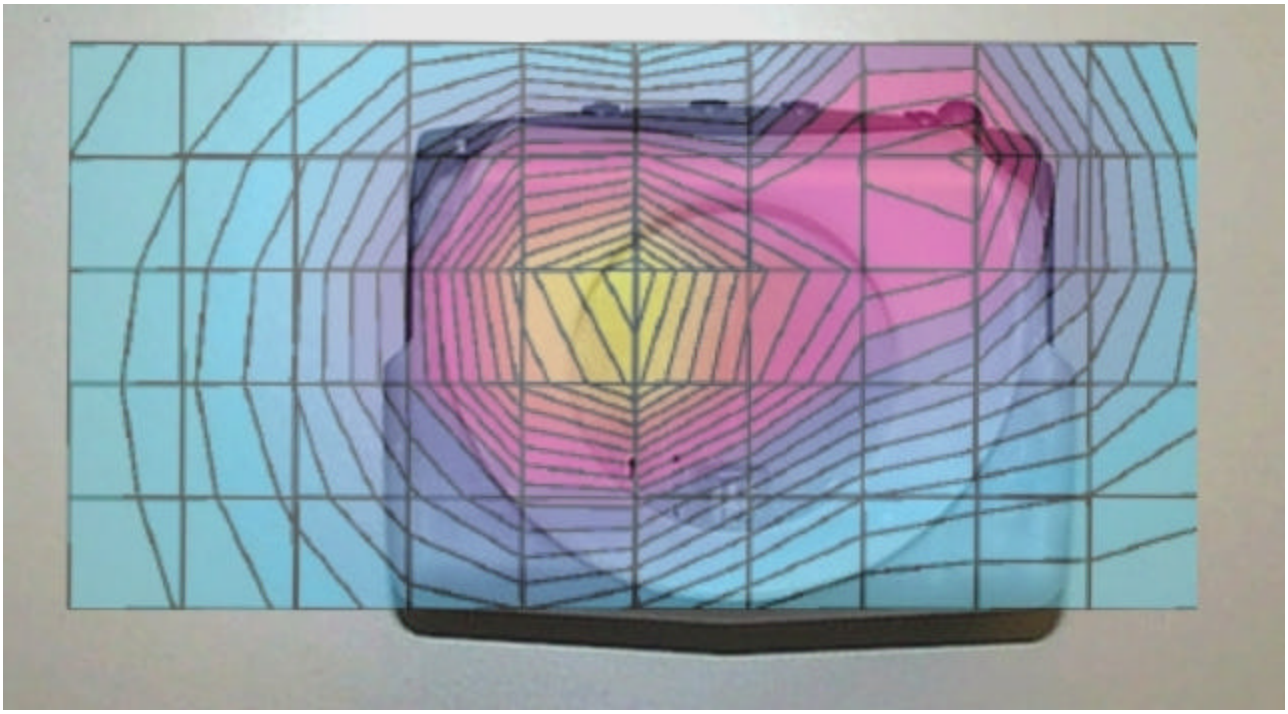


Figure 2. Typical 1900MHz Contour Plot Overlaid on Body Worn Accessory

Appendix 3

Photographs of the device under test

Figure 3. Front of Device with Flip Closed

Figure 4. Front of Device with Flip Open

Figure 5. Separation Distance Provided by Belt Clip