



July 28, 2004

Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT6EE1)

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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 IHDT6EE1). The requested information is addressed below in the same numbering sequence received.

5. The left tilt, right touch and right tilt SAR plots list tissue parameters not shown in the Table on p.5 of the SAR report. It appears that a line of tissue parameter data is missing from the Table. Please address.

**Response:** The left touch scan was taken on 06/13/04 at 01:59 so would actually use the tissue parameters from 06/12/04. The corrected tables are attached below. The system verification scans for 06/12/04 are attached below in the amended report Appendix 1 supplement.

**Electrical parameters of the tissue simulating liquid for original report**

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			$\epsilon_r$	s (S/m)	Temp (°C)
1880	Head	Measured, 06/12/2004	38.2	1.43	19.5
		Measured, 06/13/2004	38.1	1.44	19.5
		Recommended Limits	40.0 ±5%	1.40 ±5%	18-25
	Body	Measured, 06/14/2004	51.3	1.59	18.8
		Recommended Limits	53.3 ±5%	1.52 ±5%	18-25

**System Accuracy Verification for original report**

f (MHz)	Description	SAR (W/kg), 1gram	Dielectric Parameters		Ambient Temp (°C)	Tissue Temp (°C)
			$\epsilon_r$	s (S/m)		
1800	Measured, 06/12/2004	40.05	38.6	1.35	20.0	19.8
	Measured, 06/13/2004	39.9	38.5	1.35	20.0	20.0
	Measured, 06/14/2004	41.15	38.6	1.37	21.0	19.3
	Recommended Limits	40.7	40.0 ±5%	1.4 ±5%	18-25	18-25

**Supplement to Appendix 1 of the Original Report**  
**SAR distribution comparison for the system accuracy verification**

# Dipole 1800 MHz

1800 MHz System Performance Check / Dipole Sn# 251tr

PM1 Power =200mW

Sim.Temp@meas=19.7C Sim.Temp@SPC = 19.8C Room Temp @ SPC = 20C

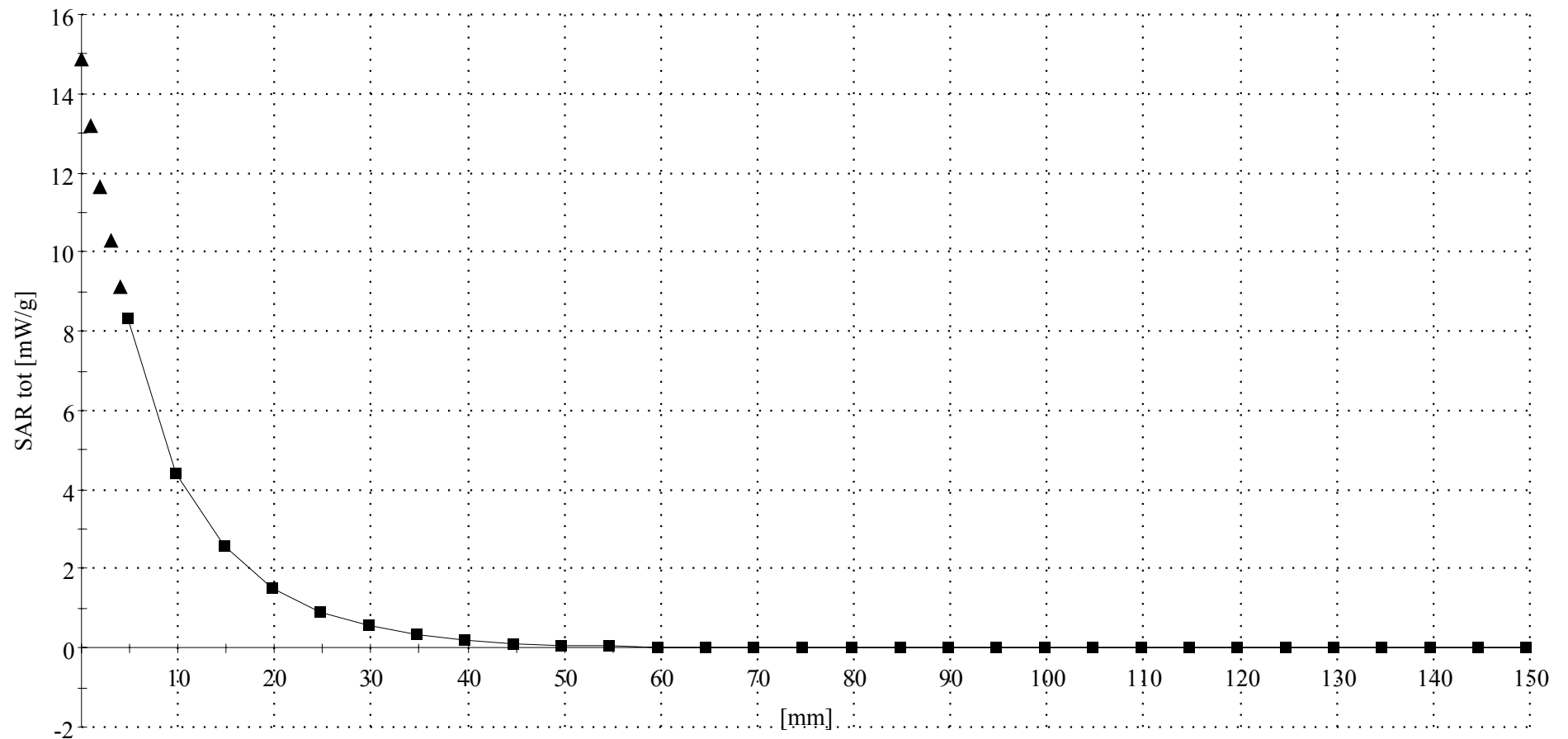
R3 TP-1159 SAM GLYCOL Expanded (Rev. 2)-9Jan03 Phantom; Section; Position: ; Frequency: 1800 MHz

Probe: ET3DV6 - SN1398 - Validation4; ConvF(5.04,5.04,5.04); Crest factor: 1.0; 1800 MHz VALIDATION:  $\sigma = 1.35$  mho/m  $\epsilon_r = 38.6$   $\rho = 1.00$  g/cm<sup>3</sup>

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Penetration depth: 8.3 (8.0, 9.1) [mm]



# Dipole 1800 MHz

1800 MHz System Performance Check / Dipole Sn# 251tr

PM1 Power =200mW

Sim.Temp@meas=19.7C Sim.Temp@SPC = 19.8C Room Temp @ SPC = 20C

R3 TP-1159 SAM GLYCOL Expanded (Rev. 2)-9Jan03 Phantom; Flat Section; Position: (90°,90°); Frequency: 1800 MHz

Probe: ET3DV6 - SN1398 - Validation4; ConvF(5.04,5.04,5.04); Crest factor: 1.0; 1800 MHz VALIDATION:  $\sigma = 1.35$  mho/m  $\epsilon_r = 38.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cubes (2): SAR (1g): 8.01 mW/g  $\pm$  0.02 dB, SAR (10g): 4.22 mW/g  $\pm$  0.01 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Penetration depth: 8.4 (8.0, 9.2) [mm]

Powerdrift: -0.02 dB

