



MOTOROLA

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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56DW1)

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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 IHDT56DW1). The requested information is addressed below in the same numbering sequence received.

2. Please submit the following SAR plots: cellular left head touch, PCS left head touch, cellular left head tilt, PCS right head tilt.

Response: See Appendix 1

3. Please correct the following typos: (a) p.5 of the SAR report- 900 MHz validation data taken 12/31/03 should be 11.16, per the data plot, (b) p.9 of the SAR report- conversion factor for 835 & 1900 MHz should be 6.1, 4.6, respectively.

Response: There were typing errors in the original report. The corrected tables are below:

Table for Page 5 of SAR Report

f (MHz)	Description	SAR (W/kg), 1gram	Dielectric Parameters		Ambient Temp (°C)	Tissue Temp (°C)
			ϵ_r	σ (S/m)		
900	Measured, 31-Dec-03	11.16	41.2	0.97	20	20.1
	Recommended Limits	11.6	41.5 $\pm$ 5%	0.97 $\pm$ 5%	18-25	18-25
1800	Measured, 30-Dec-03	39.7	38.3	1.36	20	19.0
	Measured, 02-Jan-04	40.4	38.7	1.38	20	19.1
	Recommended Limits	39.7	40.0 $\pm$ 5%	1.4 $\pm$ 5%	18-25	18-25

Table for Page 9 of SAR Report

Description	Serial Number	f (MHz)	Conversion Factor	Cal Cert pg #
E-Field Probe ET3DV6	SN1501	835	6.1	8 of 10
		1900	4.6	8 of 10

Appendix 1

Requested SAR Plots

s/n L720680122

Ch# 190 / Pwr Step: 07 (OTA)

Type of Modulation: 850 GSM

DEVICE POSITION: Cheek touch

Accessory Model #: N/A

R5 TP-1132 Sugar SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz

Probe: ET3DV6R - SN1501 - IEEE Head; ConvF(6.40,6.40,6.40); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.493 mW/g, SAR (10g): 0.331 mW/g, (Worst-case extrapolation)

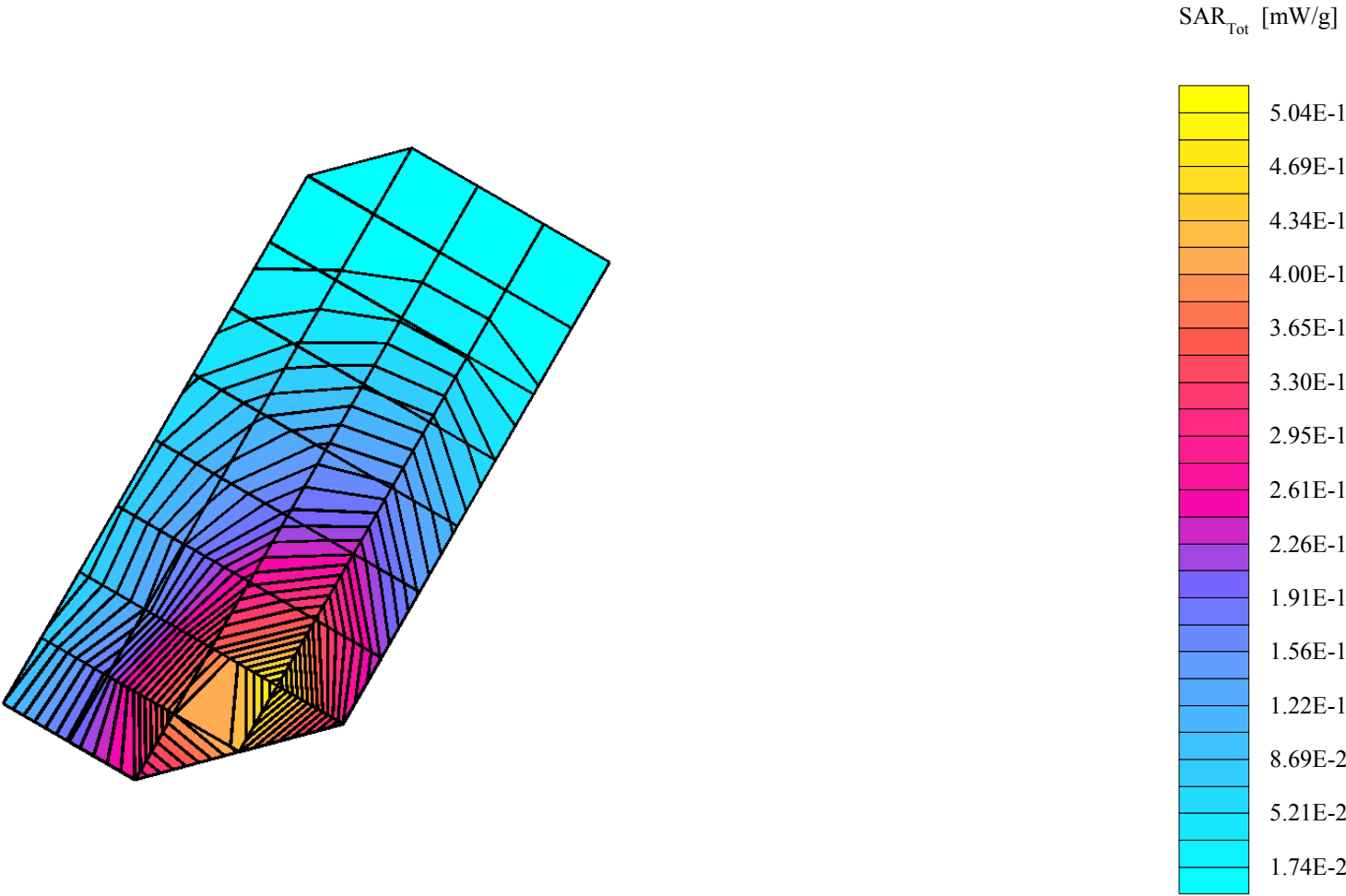
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

Penetration depth: 14.8 (13.1, 17.0) [mm]

Powerdrift: -0.08 dB

Antenna Position: FIXED

Battery Model #: SNN5588A



s/n L720680122

Ch# 190 / Pwr Step: 07 (OTA)

Type of Modulation: 850 GSM

DEVICE POSITION: 15 deg TILT

Accessory Model #: N/A

R5 TP-1132 Sugar SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz

Probe: ET3DV6R - SN1501 - IEEE Head; ConvF(6.40,6.40,6.40); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.91$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.130 mW/g, SAR (10g): 0.0967 mW/g, (Worst-case extrapolation)

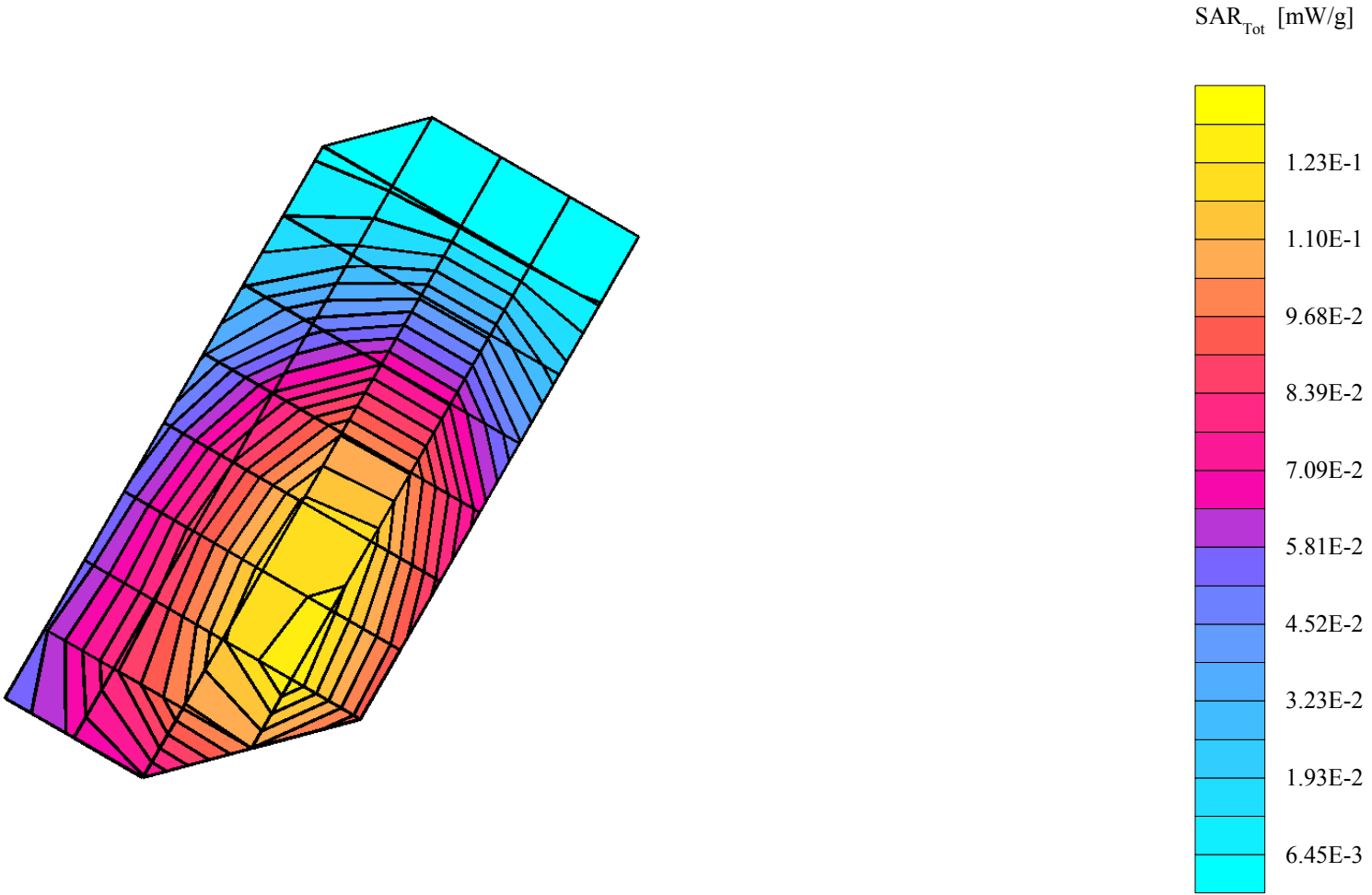
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

Penetration depth: 18.3 (15.7, 21.1) [mm]

Powerdrift: -0.01 dB

Antenna Position: FIXED

Battery Model #: SNN5588A



s/n L720680122

Ch# 661 / Pwr Step: 00 (OTA)

Type of Modulation: 1900 GSM

DEVICE POSITION: Cheek touch

Accessory Model #: N/A

R5: TP-1160 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 1880 MHz

Probe: ET3DV6R - SN1501 - IEEE Head; ConvF(5.00,5.00,5.00); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m}$ $\epsilon_r = 38.4$ $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.619 mW/g, SAR (10g): 0.331 mW/g, (Worst-case extrapolation)

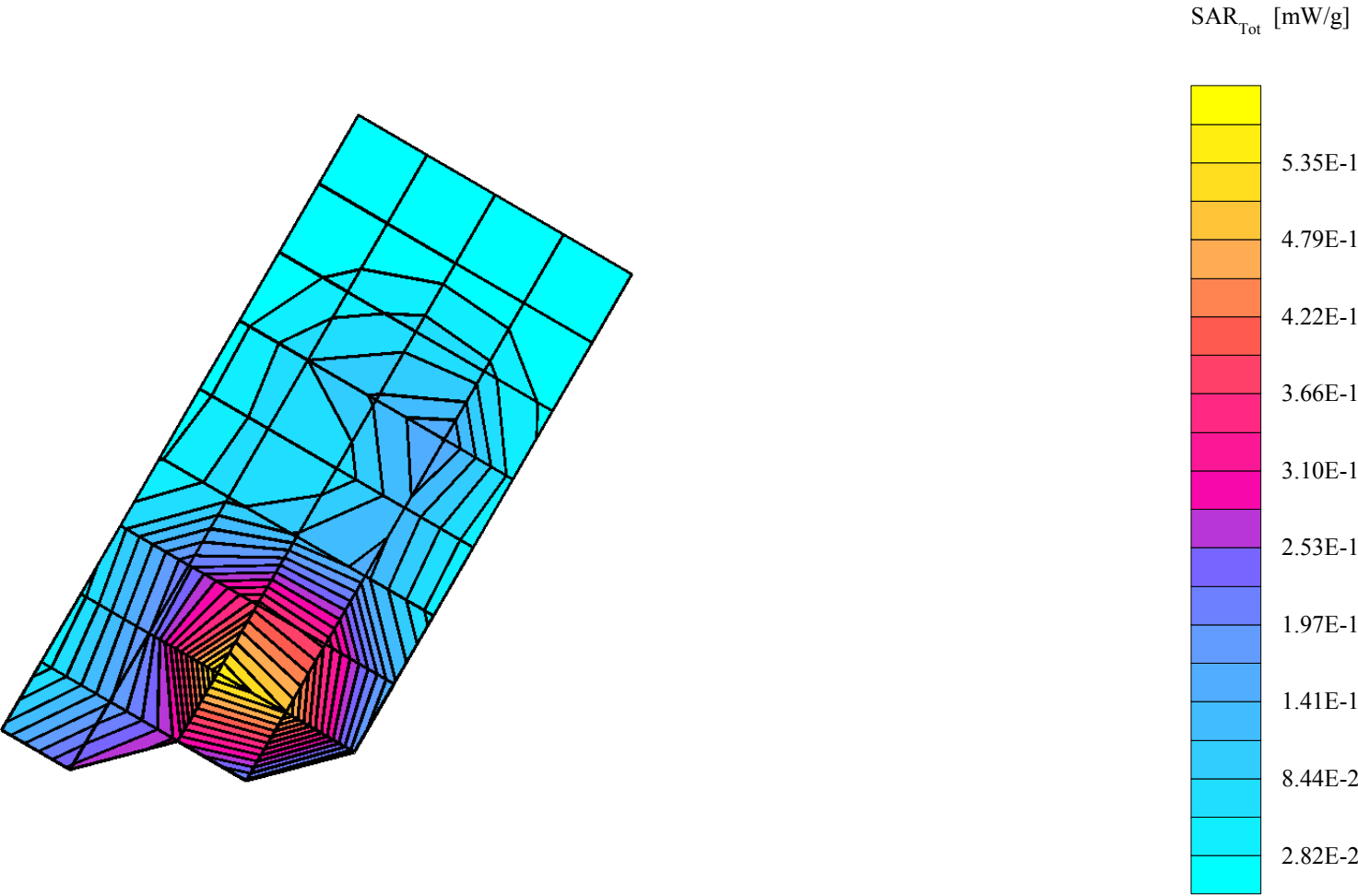
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

Penetration depth: 9.4 (9.2, 9.9) [mm]

Powerdrift: -0.22 dB

Antenna Position: FIXED

Battery Model #: SNN5588A



s/n L720680122

Ch# 661 / Pwr Step: 00 (OTA)

Type of Modulation: 1900 GSM

DEVICE POSITION: 15 deg TILT

Accessory Model #: N/A

R5: TP-1160 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 1880 MHz

Probe: ET3DV6R - SN1501 - IEEE Head; ConvF(5.00,5.00,5.00); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.45 \text{ mho/m}$ $\epsilon_r = 38.4$ $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.148 mW/g, SAR (10g): 0.0904 mW/g, (Worst-case extrapolation)

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

Penetration depth: 12.2 (11.4, 13.1) [mm]

Powerdrift: -0.01 dB

Antenna Position: FIXED

Battery Model #: SNN5588A

