


MOTOROLA

TESTING CERT # 2518.01
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2
Enterprise Mobility Solutions
EME Test Laboratory
 8000 West Sunrise Blvd
 Fort Lauderdale, FL. 33322.

Date of Report: 06/16/10

Report Revision: O

Report ID: SAR rpt_H86XAH6JR7AN_Rev
 O_100616_SR8273

Responsible Engineer: Stephen C. Whalen (Principal Staff Eng.)
Report Author: Stephen C. Whalen (Principal Staff Eng.)
Date/s Tested: 05/13/2010 – 05/20/2010
Manufacturer/Location: China
Sector/Group/Div.: iDEN Mobile Devices
Date submitted for test: 04/21/2010
DUT Description: TDMA: 81:120, 2:6, 1:12, and 1:6; M64-QAM, M16-QAM, and QPSK Modulations; 0.600 W Pulse Avg; MOTotalk: 114:120 8FSK; 0.760 W nominal; (GPS and Bluetooth Capable)
Test TX mode(s): Phone 1:3, Dispatch 1:6, Data 81:120 and MOTotalk:114:120
Max. Power output: 0.640 W pulsed average conducted power (iDEN); 0.800 W (MOTotalk); 0.010 W (Bluetooth)
Nominal Power: 0.60 W pulsed average conducted power (iDEN); 0.760 W (MOTotalk); 0.0063 W (Bluetooth)
Tx Frequency Bands: 806-825, 896-902 MHz (iDEN); 902-928 MHz (MOTotalk); 2.402-2.480 GHz (Bluetooth)
Signaling type: TDMA: QPSK, M16-QAM, M64-QAM; FHSS: 8FSK (PTT); BT
Model(s) Tested: H86XAH6JR7AN
Model(s) Certified: H86XAH6JR7AN
Serial Number(s): 364VLGM8FD, 364VLGM8G2
Classification: General Population/Uncontrolled

DUT Photo
 (Refer to Exhibit 7B)

Regulatory Identifications

FCC ID IHDP56LL1 – Rule Part(s) 15, 90

SAR results outside of Part 90 are not applicable for FCC compliance demonstration.

IC ID 1090-P56LL1
Max. Calc. : 1-g Avg. SAR: 0.91 W/kg (Body); 10-g Avg. SAR: 0.67 W/kg (Body)
Max. Calc. : 1-g Avg. SAR: 0.67 W/kg (Face); 10-g Avg. SAR: 0.48 W/kg (Face)
Max. Calc. : 1-g Avg. SAR: 0.65 W/kg (Head); 10-g Avg. SAR: 0.44 W/kg (Head)

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d).

The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 2.0 W/kg averaged over 10grams of contiguous tissue.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.

I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Signature on file – Deanna Zakharia
Deanna Zakharia
EMS EME Lab Senior Resource Manager,
Laboratory Director
Approval Date: 6/17/2010

Certification Date:
Certification No.:

APPENDIX C
Dipole Calibration Certificates

Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
S Service suisse d'étalonnage
C Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Client **Motorola EME**

Certificate No: **D835V2-427_Jan10**

CALIBRATION CERTIFICATE

Object **D835V2 - SN: 427**

Calibration procedure(s) **QA CAL-05.v7**
Calibration procedure for dipole validation kits

Calibration date: **January 14, 2010**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	06-Oct-09 (No. 217-01086)	Oct-10
Power sensor HP 8481A	US37292783	06-Oct-09 (No. 217-01086)	Oct-10
Reference 20 dB Attenuator	SN: 5086 (20g)	31-Mar-09 (No. 217-01025)	Mar-10
Type-N mismatch combination	SN: 5047.2 / 06327	31-Mar-09 (No. 217-01029)	Mar-10
Reference Probe ES3DV3	SN: 3205	26-Jun-09 (No. ES3-3205_Jun09)	Jun-10
DAE4	SN: 601	07-Mar-09 (No. DAE4-601_Mar09)	Mar-10
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-09)	In house check: Oct-11
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-09)	In house check: Oct-10

Calibrated by: **Jeton Kastrati** Name: **Jeton Kastrati** Function: **Laboratory Technician**

Approved by: **Katja Pokovic** Technical Manager

Signature



Issued: January 18, 2010

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V5.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V4.9	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.2 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	41.4 \pm 6 %	0.89 mho/m \pm 6 %
Head TSL temperature during test	(21.5 \pm 0.2) °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.39 mW / g
SAR normalized	normalized to 1W	9.56 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	9.63 mW /g \pm 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.56 mW / g
SAR normalized	normalized to 1W	6.24 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	6.27 mW /g \pm 16.5 % (k=2)

Appendix**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	51.2 Ω - 2.7 j Ω
Return Loss	- 30.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.423 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	September 20, 2000

DASY5 Validation Report for Head TSL

Date/Time: 11.01.2010 11:14:03

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:427

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.04, 6.04, 6.04); Calibrated: 26.06.2009
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.03.2009
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Pin=250 mW /d=15mm, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement

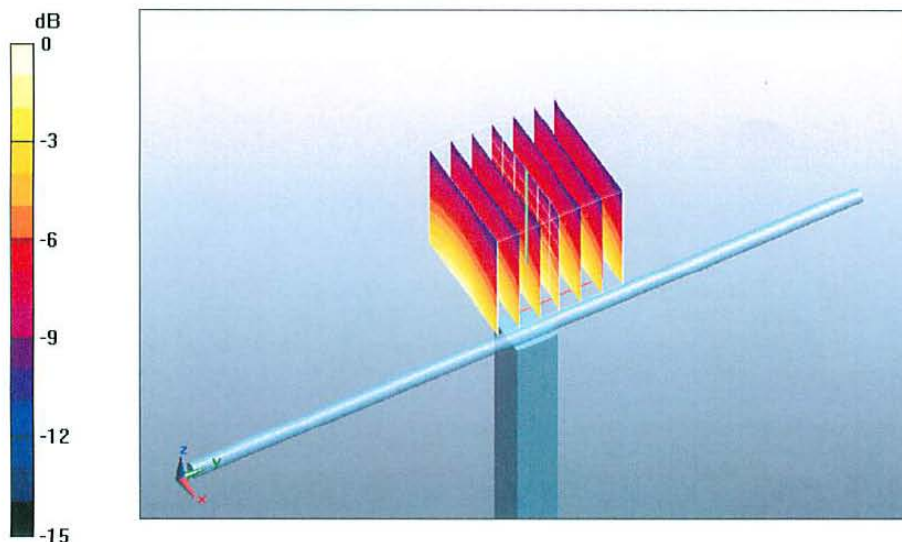
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.4 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 3.58 W/kg

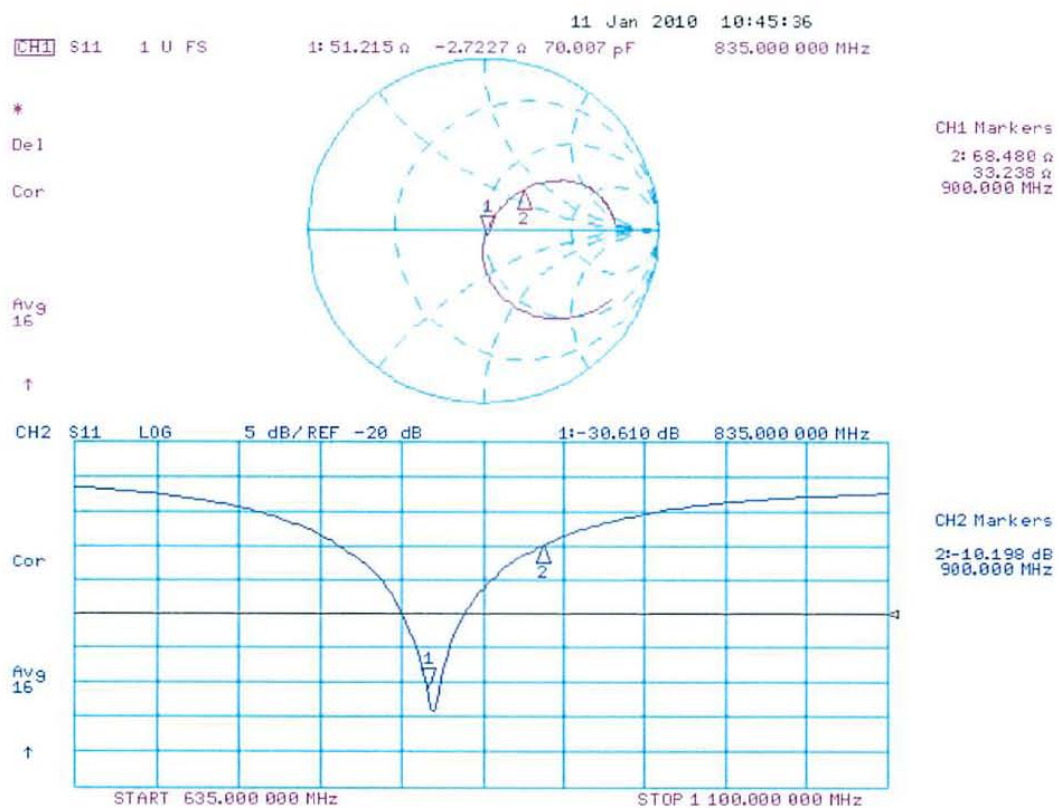
SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (measured) = 2.77 mW/g



0 dB = 2.77mW/g

Impedance Measurement Plot for Head TSL



Appendix D

Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificate for dipole D835V2 S/N 427 was not used due to the following:

- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section indicated that "The measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement."
- SPEAG calibration certificate indicates that the allowed tolerance for this dipole is higher than +/- 10% (e.g. 9.63 +/-17.0% at k=2 for the D835V2 S/N 427)
- The allowed tolerance for the probes is also higher than +/- 10% (e.g. 11.0% at k=2 at 900MHz for the probe being used to assess this product).

Due to probe, dipole and system tolerances noted above, the lab averages dipole results across multiple probes to establish a set of averaged targets for each dipole using the following procedure:

- The System Validation was conducted per IEEE1528-2003 and the latest draft of IEC62209-2 (10/3/08) standards using the simulated head tissue and multiple probes that are available and applicable for the dipole under test to verify the System Validation. Results for this dipole are within the measurement system uncertainty of the reference SAR values indicated within the latest draft of IEC62209-2 (10/3/08) when using flat phantom with 2mm thickness is used. These results then are averaged and used as the target for the daily system performance check when the simulated head tissue is used.
- The dipole targets for the body are set immediately following the same process noted above. Since there is no standard referencing the SAR values for the System Validation using the simulated body tissue, the compliant System Validation results using the simulated head tissue are used to justify the use of the System Validation results using the simulated body tissue due to the same setup except for the simulated tissue type.

The targets set in this report were conducted following the above process.

Note that the targets set for the tested dipole, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003 and IEC62209-2 standards, and the difference between this result and the result from the manufacture's dipole calibration certificate is 1.3% for 835, which is well within the measurement uncertainty of the measurement system at k=2.

To assess the isotropic characteristics of the measurement probe, a probe rotation was performed using the "Rotation (1D)" function in the DASY software with a measured isotropy tolerance of +/- 0.5dB.

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/13/2010 6:53:43 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835H-100513-01

Phantom# / Tissue Temp.: SAMTP1022 / 20.3 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.76 mW/g (1g)

Adjusted SAR (1W): 9.72 mW/g (1g)

Percent from Target (+/-): 0.4 % (1g)

Rotation (1D): 0.037 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.43 mW/g (1g); 1.59 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.5 V/m; Power Drift = 0.00878 dB

Peak SAR (extrapolated) = 3.63 W/kg

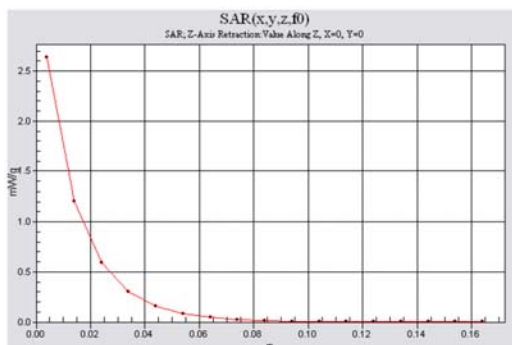
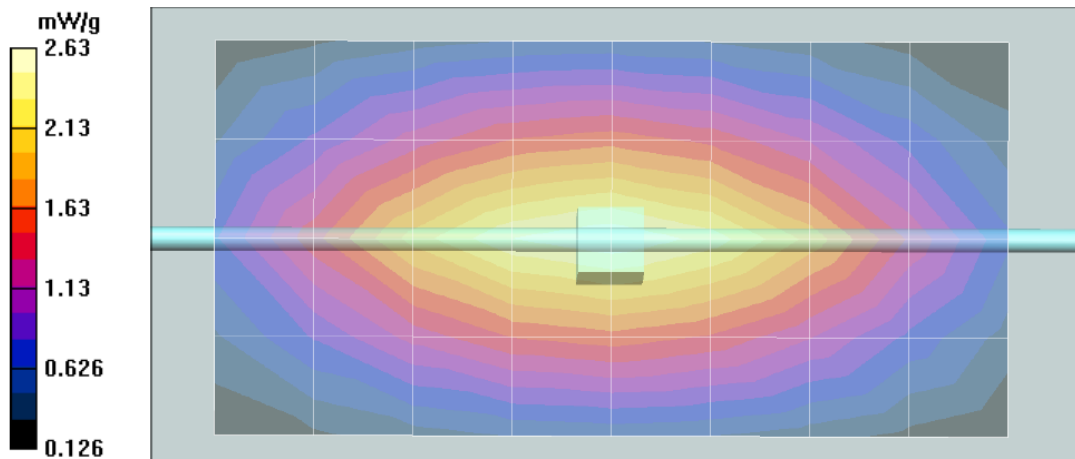
SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.59 mW/g

Maximum value of SAR (measured) = 2.63 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.64 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/14/2010 7:05:29 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835H-100514-01
 Phantom# / Tissue Temp.: SAMTP1022 / 20.7 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.76 mW/g (1g)
 Adjusted SAR (1W): 9.68 mW/g (1g)
 Percent from Target (+/-): 0.8 % (1g)
 Rotation (1D): 0.041 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.42 mW/g (1g); 1.58 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = 0.00195 dB

Peak SAR (extrapolated) = 3.62 W/kg

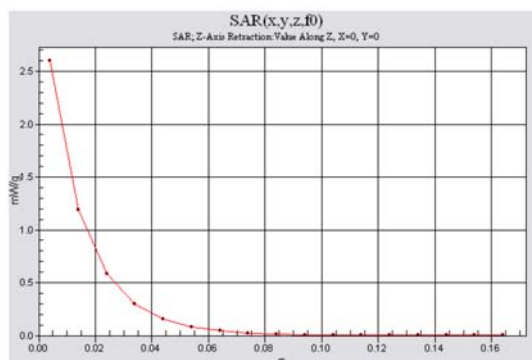
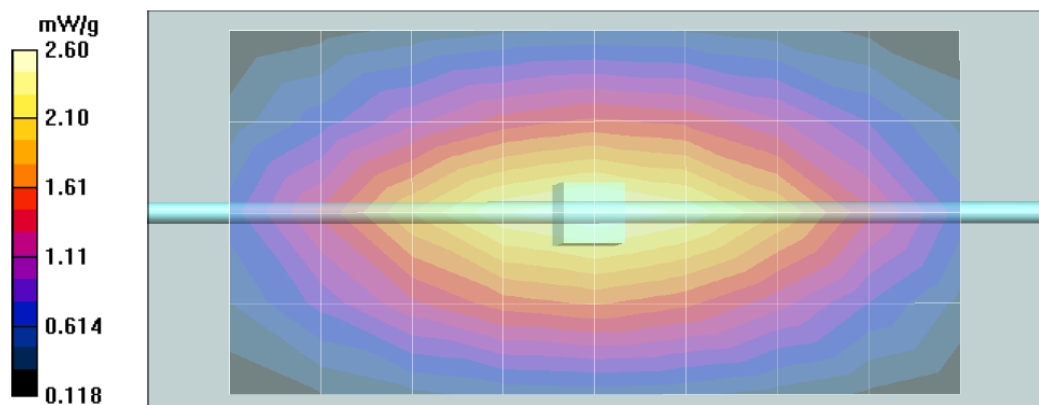
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.58 mW/g

Maximum value of SAR (measured) = 2.63 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.60 mW/g

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/15/2010 8:52:09 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835H-100515-01

Phantom# / Tissue Temp.: SAMTP1022 / 20.9 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.76 mW/g (1g)

Adjusted SAR (1W): 9.68 mW/g (1g)

Percent from Target (+/-): 0.8 % (1g)

Rotation (1D): 0.037 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.42 mW/g (1g); 1.58 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.2 V/m; Power Drift = 0.00258 dB

Peak SAR (extrapolated) = 3.63 W/kg

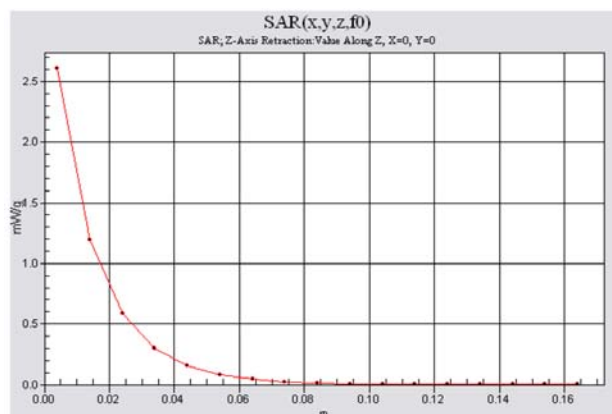
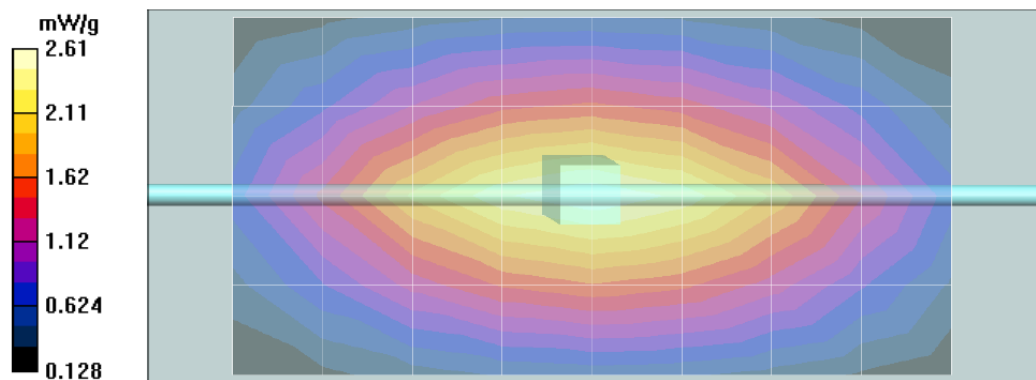
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.58 mW/g

Maximum value of SAR (measured) = 2.62 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.61 mW/g

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/17/2010 6:53:46 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835H-100517-01

Phantom# / Tissue Temp.: SAMTP1022 / 21.1 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.76 mW/g (1g)

Adjusted SAR (1W): 9.80 mW/g (1g)

Percent from Target (+/-): 0.4 % (1g)

Rotation (1D): 0.039 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.45 mW/g (1g); 1.60 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.6 V/m; Power Drift = 0.0036 dB

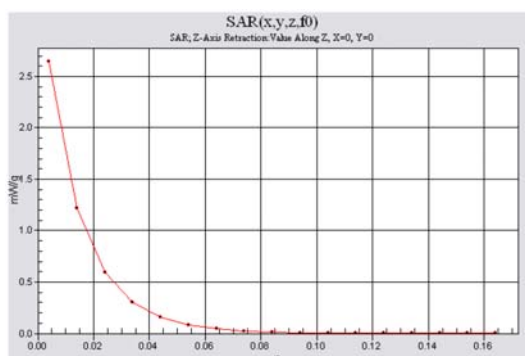
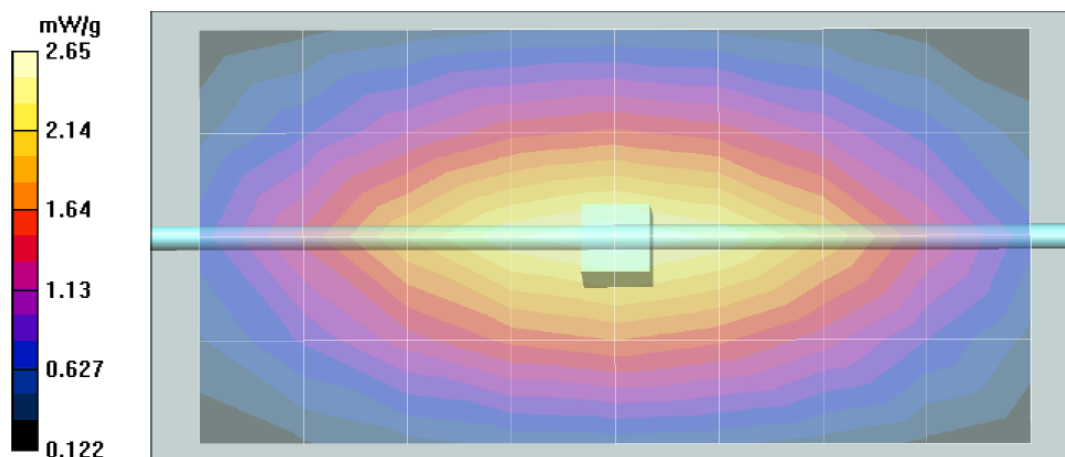
Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.65 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/18/2010 7:07:27 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835B-100518-01

Phantom# / Tissue Temp.: OVAL1021 / 20.9 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.52 mW/g (1g)

Adjusted SAR (1W): 9.68 mW/g (1g)

Percent from Target (+/-): 1.7 % (1g)

Rotation (1D): 0.037 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.42 mW/g (1g); 1.59 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 52.0 V/m; Power Drift = 0.00255 dB

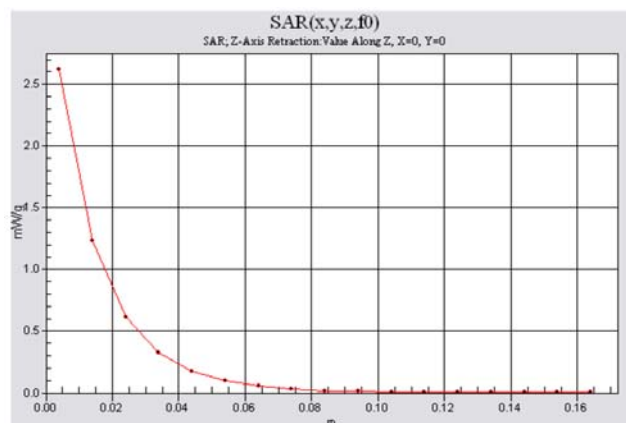
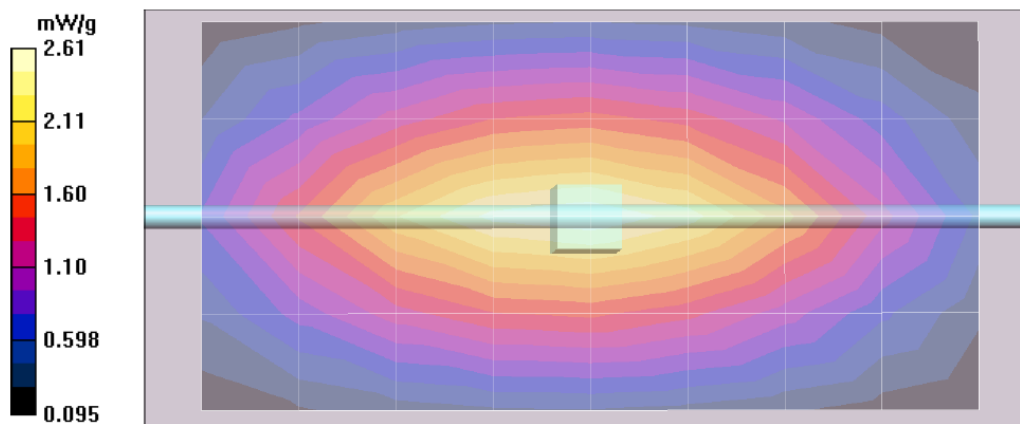
Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.59 mW/g

Maximum value of SAR (measured) = 2.62 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.61 mW/g

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/19/2010 6:32:51 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835B-100519-01

Phantom# / Tissue Temp.: OVAL1021 / 20.9 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.52 mW/g (1g)

Adjusted SAR (1W): 9.84 mW/g (1g)

Percent from Target (+/-): 3.4 % (1g)

Rotation (1D): 0.038 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.46 mW/g (1g); 1.61 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 52.4 V/m; Power Drift = -0.0008 dB

Peak SAR (extrapolated) = 3.60 W/kg

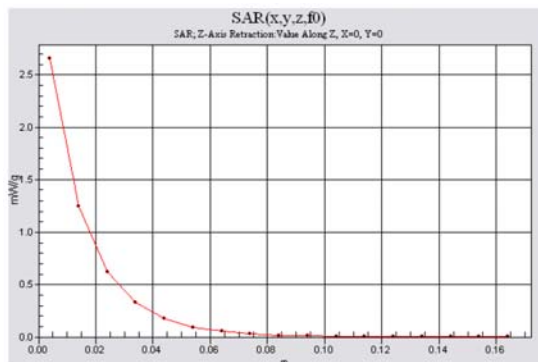
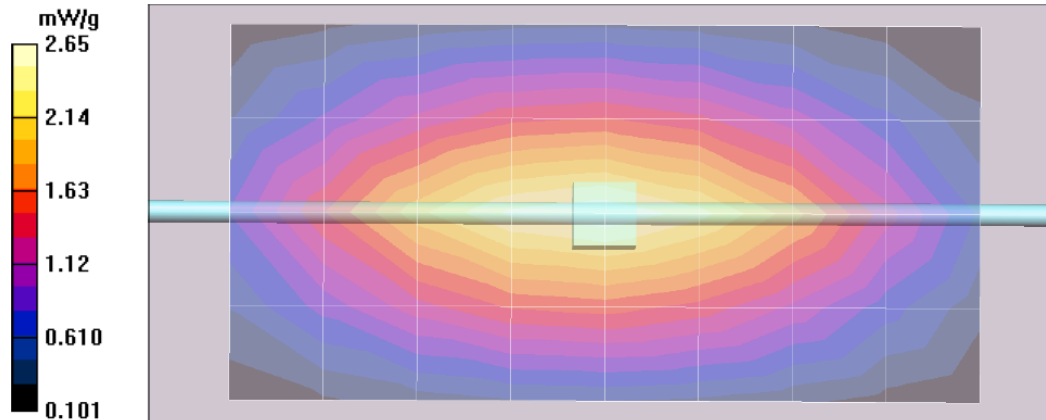
SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.61 mW/g

Maximum value of SAR (measured) = 2.65 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.66 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/20/2010 6:48:48 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835B-100520-01

Phantom# / Tissue Temp.: OVAL1021 / 20.7 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.52 mW/g (1g)

Adjusted SAR (1W): 9.72 mW/g (1g)

Percent from Target (+/-): 2.1 % (1g)

Rotation (1D): 0.039 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.43 mW/g (1g); 1.60 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 52.1 V/m; Power Drift = 0.0192 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.6 mW/g

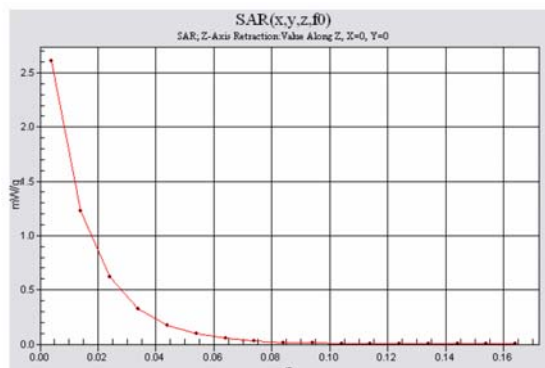
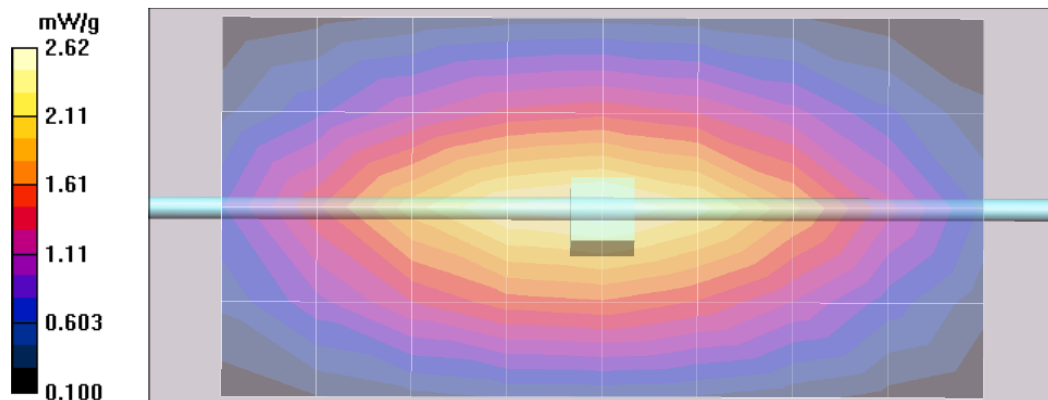
Maximum value of SAR (measured) = 2.64 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.62 mW/g

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.61 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/24/2010 7:08:46 AM

Robot# / Run#: DASY4-FL-2 / JsT-SYSP-835H-100524-01

Phantom# / Tissue Temp.: SAMTP1022 / 20.9 (C)

Dipole Model# / Serial#: D835V2 / 427

TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.76 mW/g (1g)

Adjusted SAR (1W): 9.68 mW/g (1g)

Percent from Target (+/-): 0.8 % (1g)

Rotation (1D): 0.032 dB

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 2.42 mW/g (1g); 1.58 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = -0.00413 dB

Peak SAR (extrapolated) = 3.61 W/kg

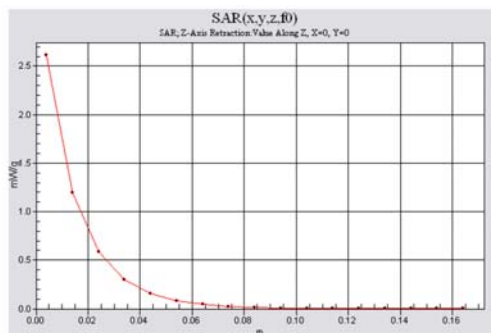
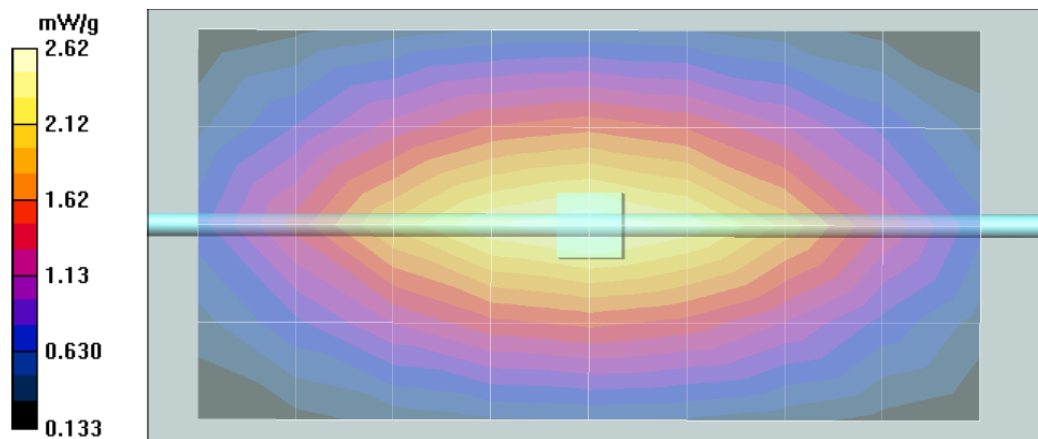
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.58 mW/g

Maximum value of SAR (measured) = 2.62 mW/g

System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.61 mW/g



DIPOLE SAR TARGET - HEAD

Date: 04/16/10 Frequency (MHz): 835
 Lab Location: FL08-G&PS Mixture Type: IEEE Head
 DAE Serial #: 850 Ambient Temp.(°C): 22.1

Tissue Characteristics
 Permittivity: 41.2 Phantom Type/SN: SAMTP1022
 Conductivity: 0.91 Distance (mm): 15
 Tissue Temp.(°C): 21.7

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 427

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

9.56

Difference from Target

2.09% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **9.76****Passes K=2**

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3006	9.92	1.6%	R3
1547	9.68	-0.8%	R3
3147	9.68	-0.8%	R3
Average	9.7600	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: E.C.

DIPOLE SAR TARGET - BODYDate: 04/16/10Frequency (MHz): 835Lab Location: FL08-G&PSMixture Type: BodyDAE Serial #: 850Ambient Temp.(°C): 22

Tissue Characteristics

Permittivity: 53.7Phantom Type/SN: OVAL1019Conductivity: 0.98Distance (mm): 15Tissue Temp.(°C): 20.9Reference Source: DipolePower to Dipole: 250 mWReference SN: 427**New Target:**Average Measured SAR Value: 9.52 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	9.52	0.0%	R3
1547	9.52	0.0%	R3
3006	9.52	0.0%	R3
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed ChurchInitial: EC

Motorola Internal Use Only

FCD-0733 Rev.6

Appendix E

DUT Scans (Shortened Scan and Highest SAR configurations)

Shortened Scan Result
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/20/2010 10:06:05 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100520-04
Phantom# / Tissue Temp.: OVAL1021 / 20.3 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / None
Start Power: 0.632 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.783 mW/g (1g); 0.590 mW/g (10g)

Comments: Shortened Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.3 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 0.825 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 29.7 V/m; Power Drift = 0.288 dB

Motorola Fast SAR: SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.560 mW/g

Maximum value of SAR (interpolated) = 0.840 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.879 mW/g

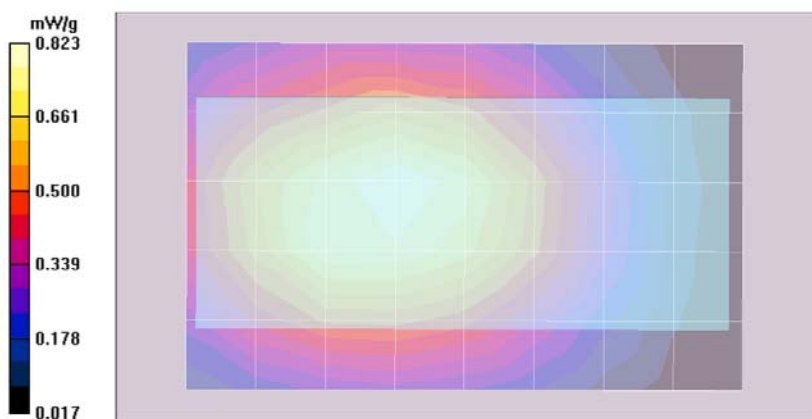
Shortened scan reflect highest SAR producing configuration; approximate run time 12 minutes.

Representative zoom scan approximate run time was 13 minutes

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 0.80 mW/g; 10-g Avg. = 0.60 mW/g

Zoom scan max calculated SAR using SAR drift: 1-g Avg. = 0.91 mW/g; 10-g Avg. = 0.67 mW/g

(see part 1 of 2 section 13.7 run # JsT-Ab-100520-04)



Highest Body SAR Configuration Result **Motorola Enterprise Mobility Solutions EME Laboratory** Date/Time: 5/17/2010 12:58:59 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-11
Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / None
Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.883 mW/g (1g); 0.652 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = 0.0655 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (measured) = 0.946 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

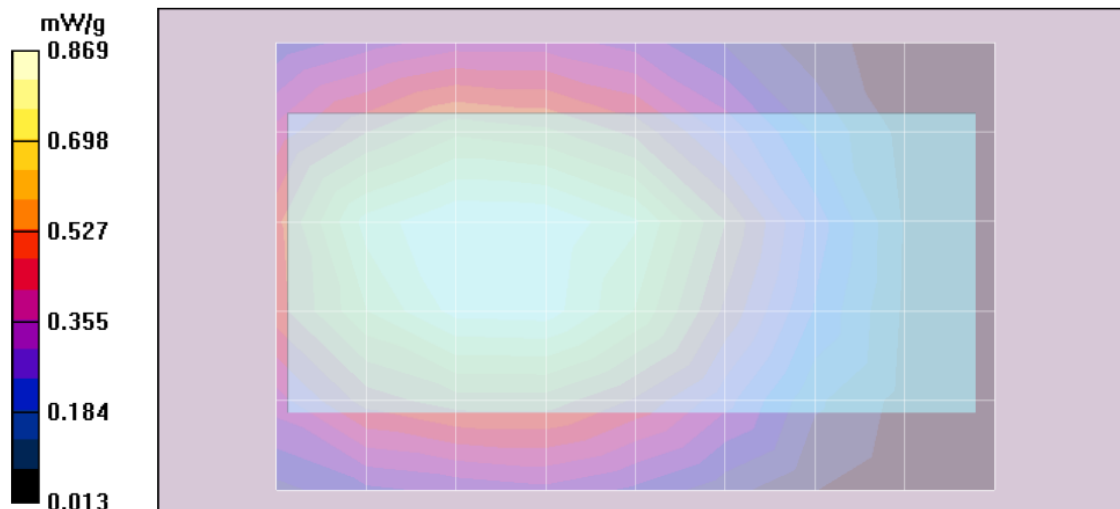
Reference Value = 31.1 V/m; Power Drift = 0.0647 dB

Motorola Fast SAR: SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.613 mW/g

Maximum value of SAR (interpolated) = 0.909 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.885 mW/g



Highest Face SAR Configuration Result

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/20/2010 3:27:35 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100520-08
 Phantom# / Tissue Temp.: SAMTP1022 / 19.6 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 902.5250 (MHz)
 Battery: SNN5837A w/ NTN3000xxxA
 Carry Acc. / Cable Acc.: Slide Closed / None
 Start Power: 0.802 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.33 mW/g (1g); 0.952 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.3 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.952 mW/g

Maximum value of SAR (measured) = 1.40 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

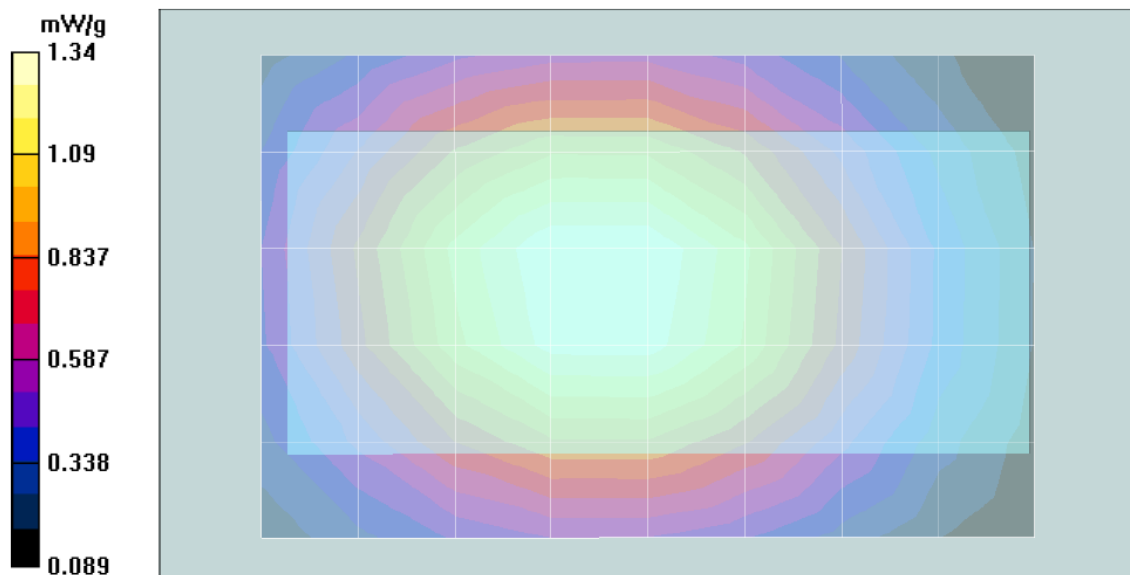
Reference Value = 37.3 V/m; Power Drift = 0.0456 dB

Motorola Fast SAR: SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.938 mW/g

Maximum value of SAR (interpolated) = 1.40 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.38 mW/g



Highest Head SAR Configuration Result **Motorola Enterprise Mobility Solutions EME Laboratory** Date/Time: 5/14/2010 2:43:01 PM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100514-08
Phantom# / Tissue Temp.: SAMTP1022 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 896.01875 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.597 mW/g (1g); 0.401 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Left Ear-Touch position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.1 V/m; Power Drift = -0.314 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

Left Ear-Touch position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

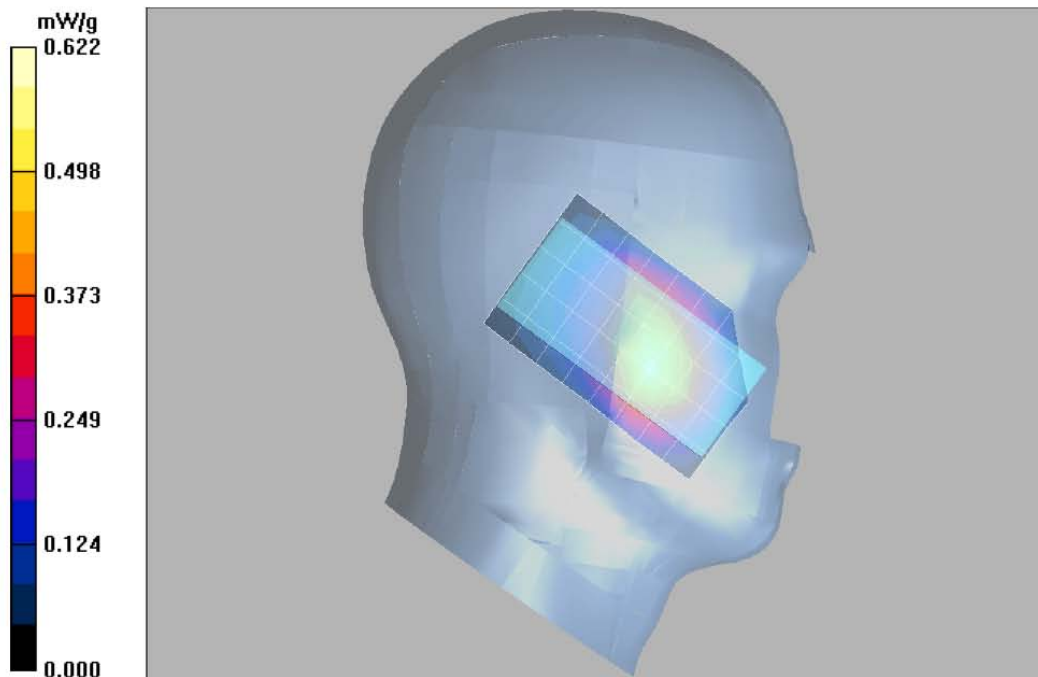
Reference Value = 22.1 V/m; Power Drift = -0.242 dB

Motorola Fast SAR: SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (interpolated) = 0.628 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.599 mW/g



Appendix F

DUT Scans

Section 1.0
806-825MHz Band Assessment of the offered batteries
(Section 13.2 Table 13)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/17/2010 8:28:16 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-02
Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / None
Start Power: 0.631 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.849 mW/g (1g); 0.626 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.3 V/m; Power Drift = -0.0132 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 0.922 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

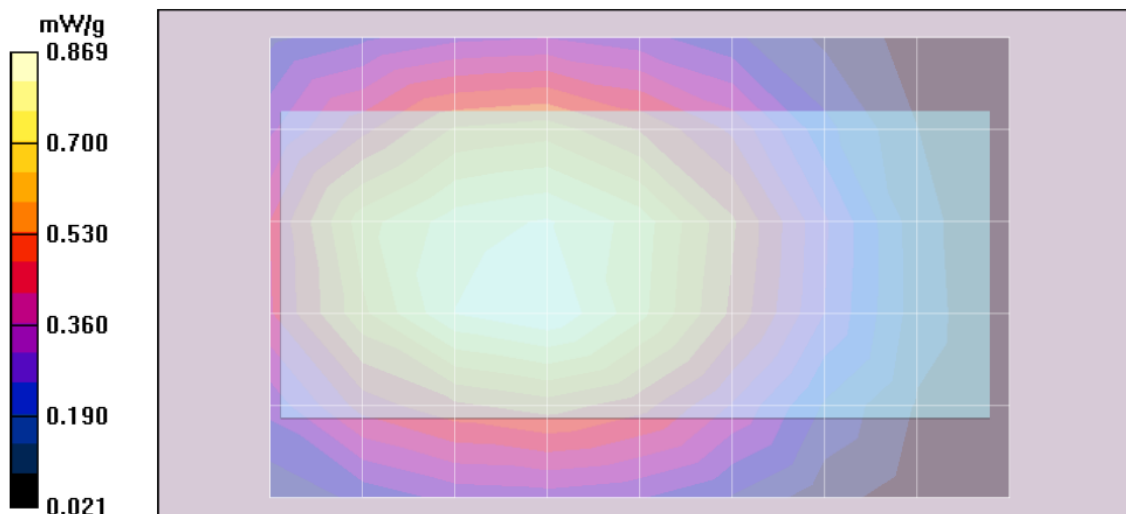
Reference Value = 30.3 V/m; Power Drift = 0.107 dB

Motorola Fast SAR: SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.595 mW/g

Maximum value of SAR (interpolated) = 0.899 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.887 mW/g



Section 2.0
806-825MHz Band Assessment of the offered data/audio cables
(Section 13.2 Table 14)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/17/2010 10:21:12 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-05
Phantom# / Tissue Temp.: OVAL1021 / 20.0 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
Battery: SNN5851A w/NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / SKN6238A
Start Power: 0.627 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.746 mW/g (1g); 0.547 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.9 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.547 mW/g

Maximum value of SAR (measured) = 0.795 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

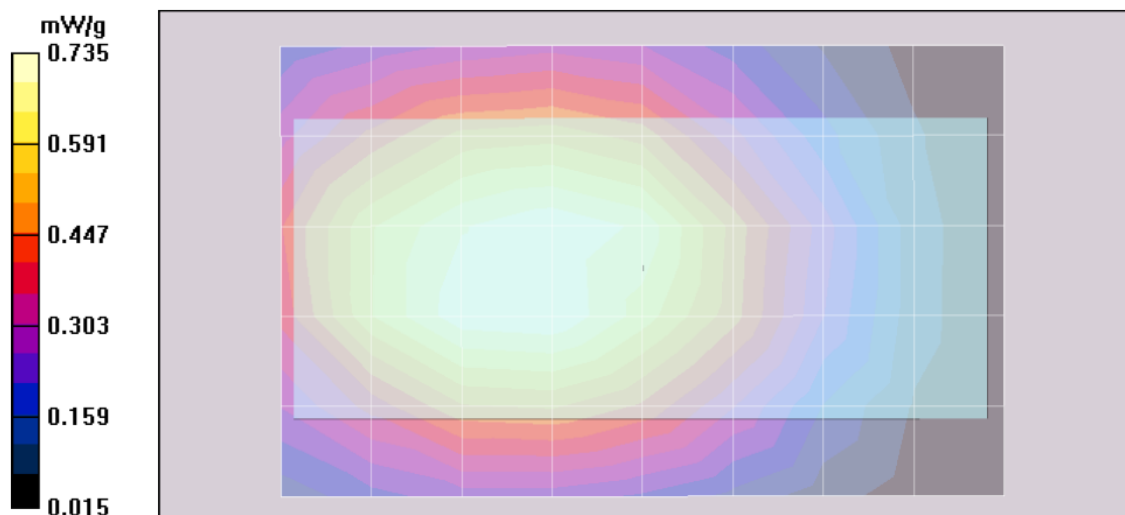
Reference Value = 27.9 V/m; Power Drift = 0.161 dB

Motorola Fast SAR: SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.518 mW/g

Maximum value of SAR (interpolated) = 0.768 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.769 mW/g



Section 3.0
806-825MHz Band Assessment of frequency band edges of the offered antenna
(Section 13.2 Table 15)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/17/2010 12:58:59 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-11
 Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: NNTN7900A / None
 Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.883 mW/g (1g); 0.652 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = 0.0655 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (measured) = 0.946 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

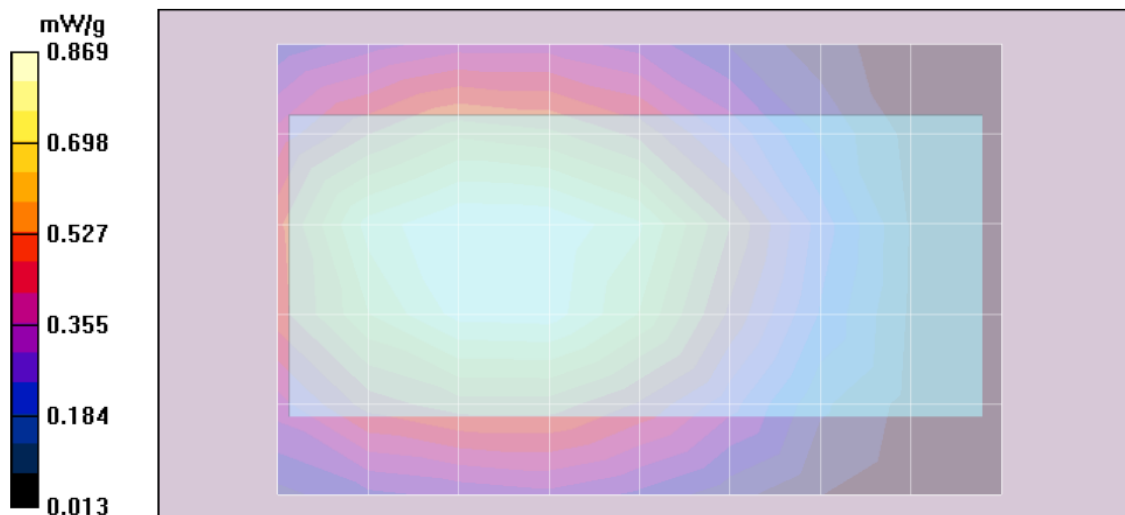
Reference Value = 31.1 V/m; Power Drift = 0.0647 dB

Motorola Fast SAR: SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.613 mW/g

Maximum value of SAR (interpolated) = 0.909 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.885 mW/g



Section 4.0
806-825MHz Band Assessment without body worn accessory at 2.5cm
(Section 13.2 Table 16)

Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/19/2010 2:17:54 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100519-13
 Phantom# / Tissue Temp.: OVAL1021 / 19.6 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.732 mW/g (1g); 0.524 mW/g (10g)

Comments: Shortened Scan; Back of DUT @ 2.5 cm (Slide Closed)
 Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 0.995 W/kg

SAR(1 g) = 0.732 mW/g; SAR(10 g) = 0.524 mW/g

Maximum value of SAR (measured) = 0.771 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

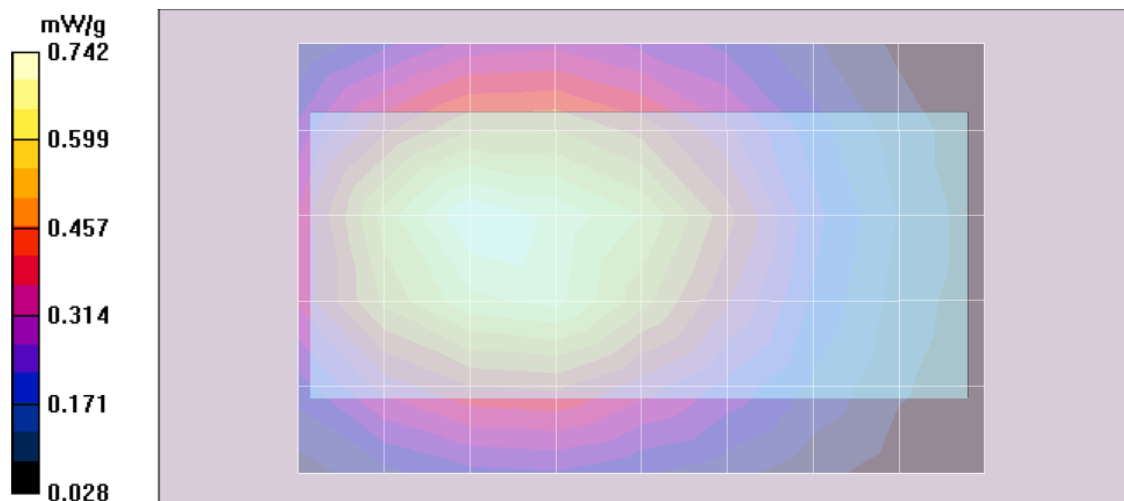
Reference Value = 27.4 V/m; Power Drift = 0.064 dB

Motorola Fast SAR: SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.495 mW/g

Maximum value of SAR (interpolated) = 0.759 mW/g

Ab Scan/Z-Axis Scan 2 (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.763 mW/g



Section 5.0
806-825MHz Band Assessment of the offered batteries
(Section 13.2 Table 17)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/13/2010 11:00:40 AM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100513-05
 Phantom# / Tissue Temp.: SAMTP1022 / 20.0 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.616 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.548 mW/g (1g); 0.380 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Left Ear-Touch position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.2 V/m; Power Drift = 0.0356 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.377 mW/g

Maximum value of SAR (measured) = 0.575 mW/g

Left Ear-Touch position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

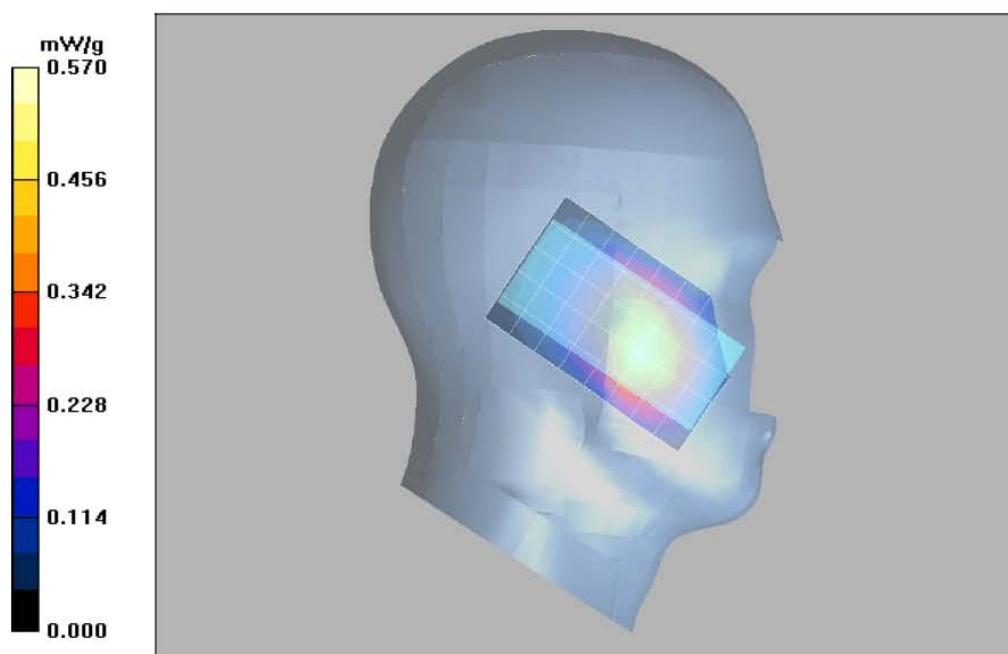
Reference Value = 22.2 V/m; Power Drift = 0.0314 dB

Motorola Fast SAR: SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.354 mW/g

Maximum value of SAR (interpolated) = 0.575 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.559 mW/g



Section 6.0
806-825MHz Band Assessment of the tilt position
(Section 13.2 Table 18)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/13/2010 12:20:54 PM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100513-07
 Phantom# / Tissue Temp.: SAMTP1022 / 19.8 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.616 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.383 mW/g (1g); 0.283 mW/g (10g)

Comments: Full Scan; Tilt; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Left Ear-15D Tilt position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.8 V/m; Power Drift = 0.0385 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.281 mW/g

Left Ear-15D Tilt position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

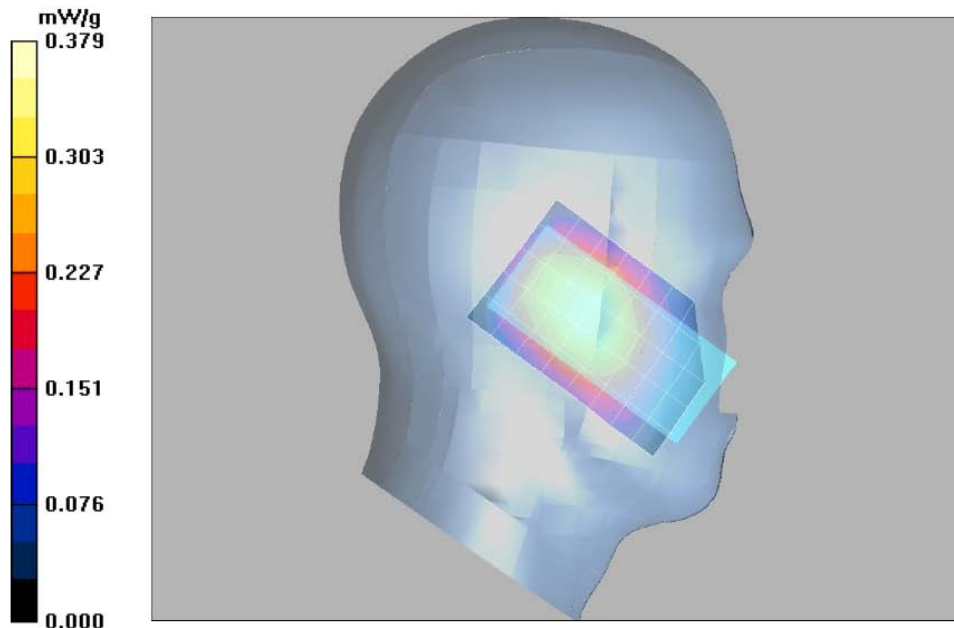
Reference Value = 19.8 V/m; Power Drift = 0.0392 dB

Motorola Fast SAR: SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.260 mW/g

Maximum value of SAR (interpolated) = 0.389 mW/g

Left Ear-15D Tilt position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.402 mW/g



Section 7.0

806-825MHz Band Assessment of frequency band edges of the offered antenna (Section 13.2 Table 19)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/13/2010 1:15:59 PM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100513-09
 Phantom# / Tissue Temp.: SAMTP1022 / 19.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
 Battery: SNN5851A w/NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.618 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.604 mW/g (1g); 0.416 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Left Ear-Touch position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.0 V/m; Power Drift = 0.0211 dB

Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 0.633 mW/g

Left Ear-Touch position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

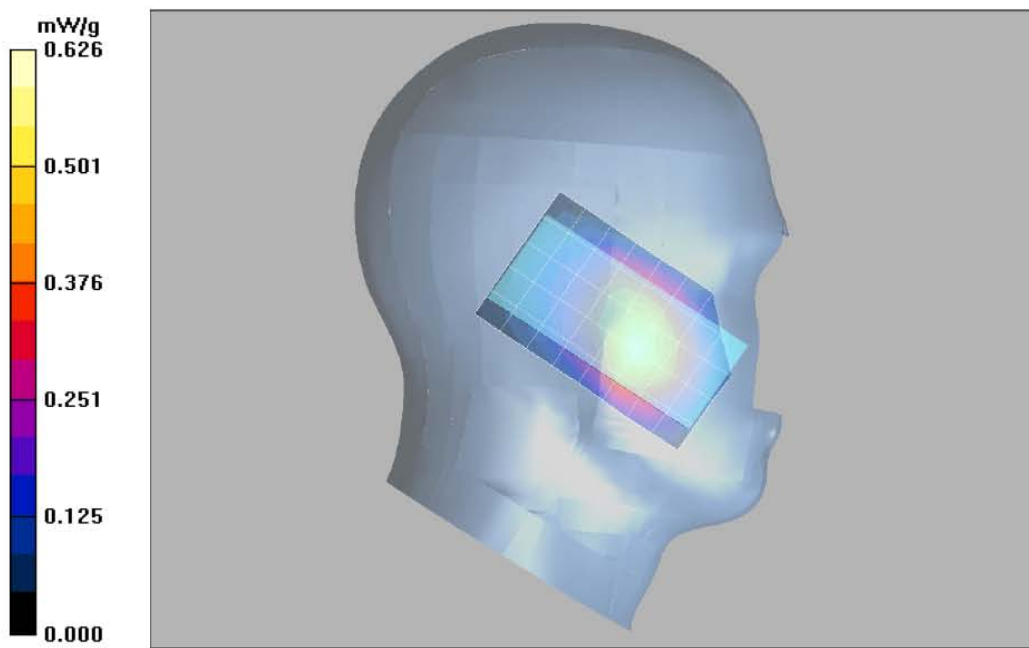
Reference Value = 23.0 V/m; Power Drift = 0.0117 dB

Motorola Fast SAR: SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (interpolated) = 0.630 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.631 mW/g



Section 8.0

806-825MHz Band Assessment of the touch and tilt position (Section 13.2 Table 20)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/13/2010 1:52:06 PM

Robot# / Run#: DASY4-FL-2 / JsT-Rear-100513-12
 Phantom# / Tissue Temp.: SAMTP1022 / 19.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.620 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.570 mW/g (1g); 0.401 mW/g (10g)

Comments: Shortened Scan; Touch; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.7 V/m; Power Drift = 0.0319 dB

Peak SAR (extrapolated) = 0.768 W/kg

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.601 mW/g

Right Ear-Touch Position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

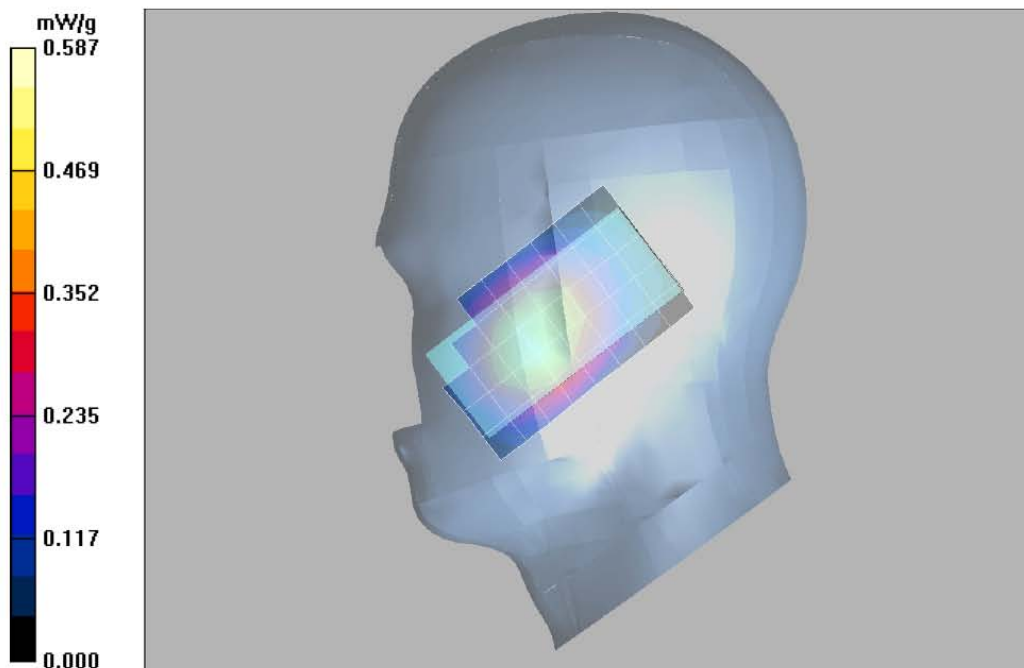
Reference Value = 25.8 V/m; Power Drift = 0.0375 dB

Motorola Fast SAR: SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.378 mW/g

Maximum value of SAR (interpolated) = 0.598 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.605 mW/g



Section 9.0

806-825MHz Band Assessment of frequency band edges of the offered antenna (Section 13.2 Table 21)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/14/2010 12:50:30 PM

Robot# / Run#: DASY4-FL-2 / JsT-Rear-100514-05
Phantom# / Tissue Temp.: SAMTP1022 / 19.7 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.620 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.602 mW/g (1g); 0.425 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.633 mW/g

Right Ear-Touch Position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

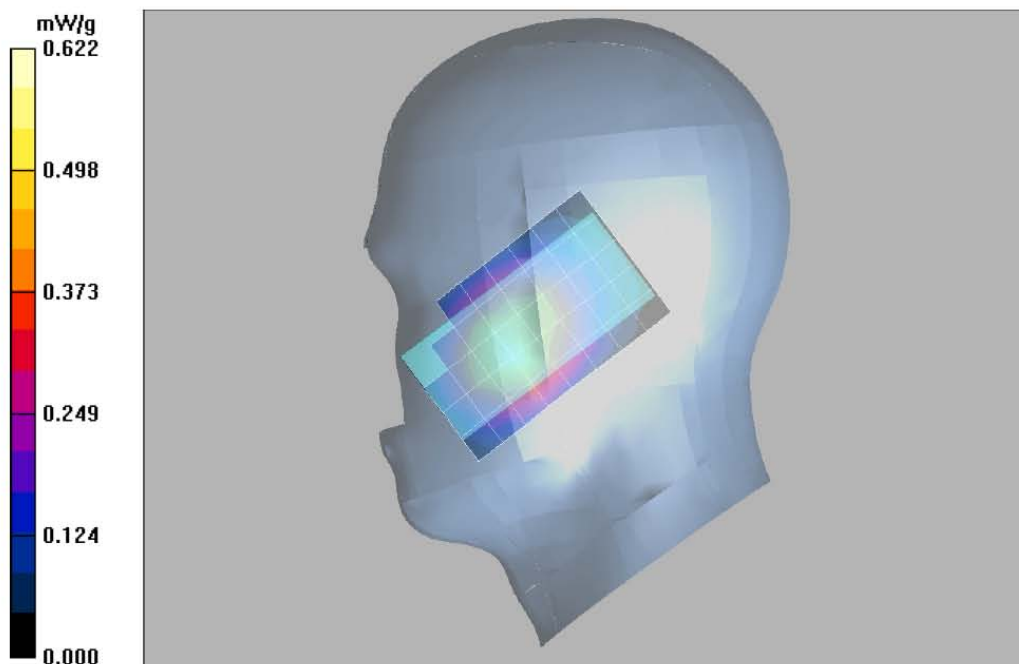
Reference Value = 26.5 V/m; Power Drift = 0.0163 dB

Motorola Fast SAR: SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (interpolated) = 0.633 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.648 mW/g



Section 10.0
806-825MHz Band Assessment of the slide opened and closed
(Section 13.2 Table 22)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/15/2010 3:08:51 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100515-13
Phantom# / Tissue Temp.: SAMTP1022 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 815.5125 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: Slide Closed / None
Start Power: 0.620 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.139 mW/g (1g); 0.0999 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:6, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.220 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.0996 mW/g

Maximum value of SAR (measured) = 0.147 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

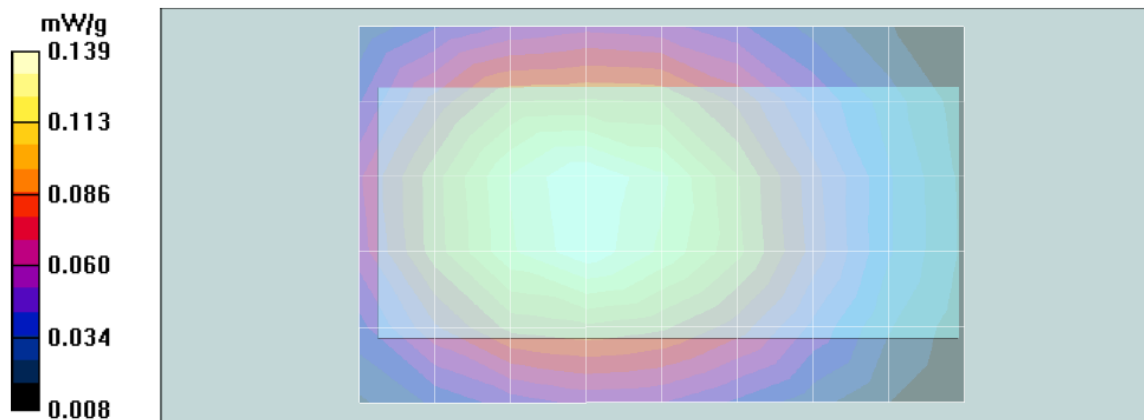
Reference Value = 12.5 V/m; Power Drift = 0.241 dB

Motorola Fast SAR: SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.0954 mW/g

Maximum value of SAR (interpolated) = 0.143 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.139 mW/g



Section 11.0
806-825MHz Band Assessment of frequency band edges of the offered antenna
(Section 13.2 Table 23)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/15/2010 4:14:05 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100515-15
Phantom# / Tissue Temp.: SAMTP1022 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 824.9875 (MHz)
Battery: SNN5851A w/ NTN2597xxxxA
Carry Acc. / Cable Acc.: Slide Closed / None
Start Power: 0.612 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.297 mW/g (1g); 0.215 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:6, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = 0.0158 dB

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.311 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

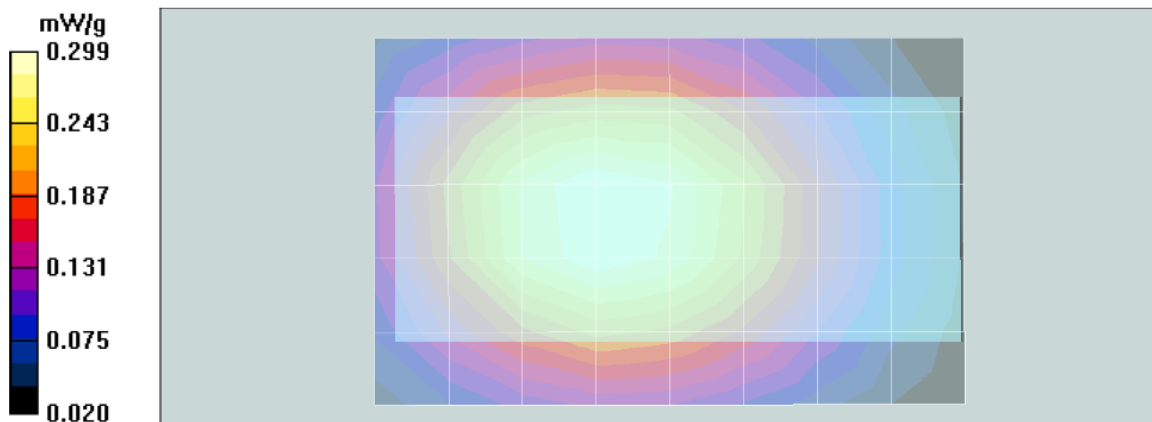
Reference Value = 18.8 V/m; Power Drift = 0.0191 dB

Motorola Fast SAR: SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (interpolated) = 0.309 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.303 mW/g



Section 12.0
896-902MHz Band Assessment of the offered batteries
(Section 13.4 Table 24)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/17/2010 1:39:45 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-13
 Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
 Battery: SNN5851A w/NTN2597xxxA
 Carry Acc. / Cable Acc.: NNTN7900A / None
 Start Power: 0.642 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.685 mW/g (1g); 0.493 mW/g (10g)

Comments: Shortened Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 899$ MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.6 V/m; Power Drift = -0.353 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 0.723 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

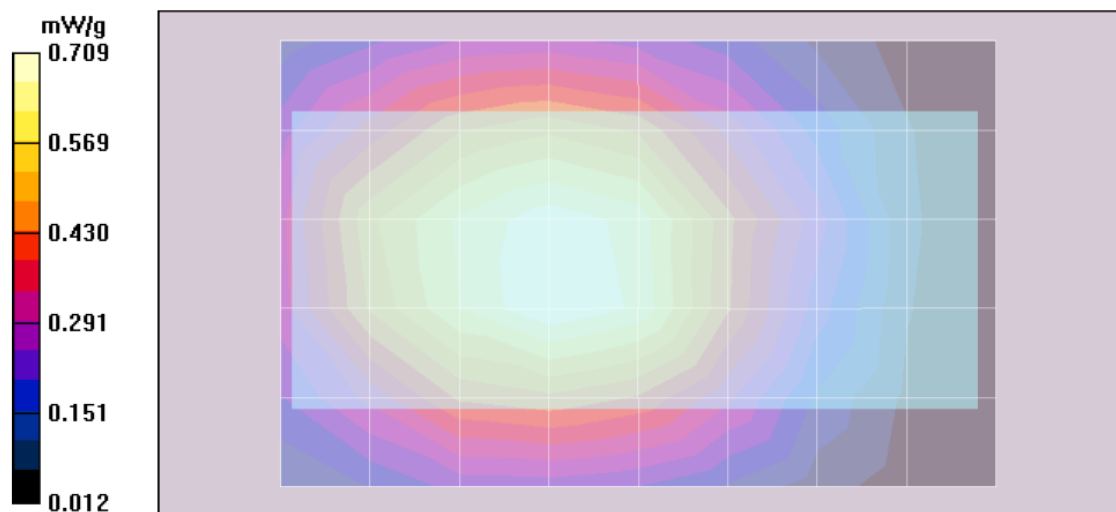
Reference Value = 27.0 V/m; Power Drift = -0.232 dB

Motorola Fast SAR: SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.490 mW/g

Maximum value of SAR (interpolated) = 0.735 mW/g

Ab Scan/Z-Axis Scan 2 (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.698 mW/g



Section 13.0
896-902MHz Band Assessment of the offered data/audio cable
(Section 13.4 Table 25)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/17/2010 4:11:15 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100517-15
Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
Battery: SNN5851A w/NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / SKN6238A
Start Power: 0.642 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.582 mW/g (1g); 0.418 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 899$ MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.2 V/m; Power Drift = -0.749 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.618 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

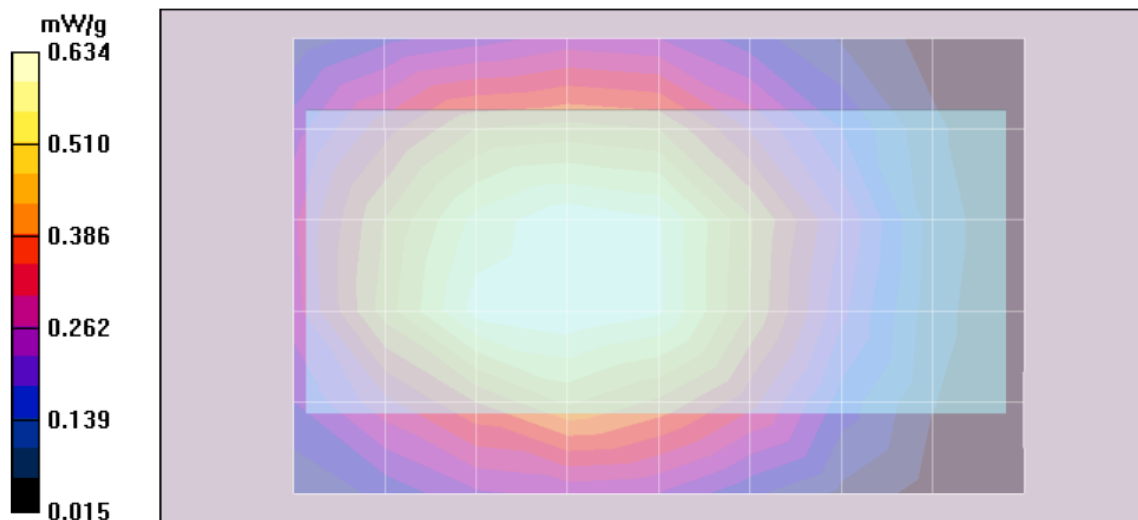
Reference Value = 26.2 V/m; Power Drift = -0.320 dB

Motorola Fast SAR: SAR(1 g) = 0.625 mW/g; SAR(10 g) = 0.444 mW/g

Maximum value of SAR (interpolated) = 0.657 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.573 mW/g



Section 14.0
896-902MHz Band Assessment of frequency band edges of the offered antenna
(Section 13.4 Table 26)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/18/2010 11:54:07 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100518-06
 Phantom# / Tissue Temp.: OVAL1021 / 20.2 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 901.98125 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: NNTN7900A / None
 Start Power: 0.647 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.651 mW/g (1g); 0.466 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 899$ MHz; $\sigma = 1.06$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = -0.499 dB

Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.466 mW/g

Maximum value of SAR (measured) = 0.699 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

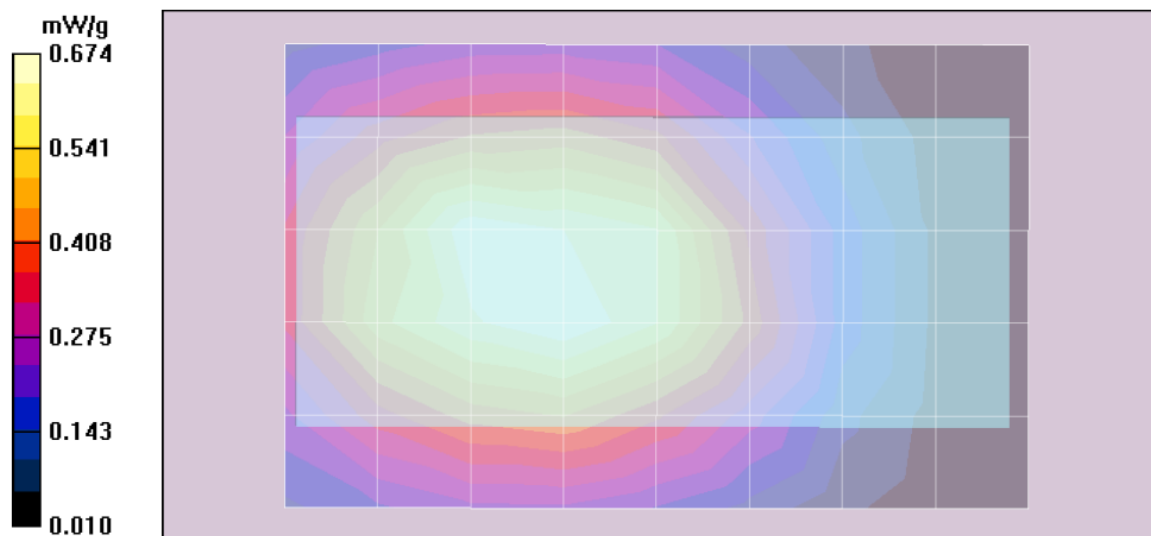
Reference Value = 26.7 V/m; Power Drift = -0.168 dB

Motorola Fast SAR: SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.465 mW/g

Maximum value of SAR (interpolated) = 0.699 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.640 mW/g



Section 15.0
896-902MHz Band Assessment without body worn accessory at 2.5cm
(Section 13.4 Table 27)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/18/2010 1:30:41 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100518-07
Phantom# / Tissue Temp.: OVAL1021 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.645 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.546 mW/g (1g); 0.397 mW/g (10g)

Comments: Full Scan; Back of DUT @ 2.5 cm (Slide Closed)
Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.5, Medium parameters used: $f = 899$ MHz; $\sigma = 1.06$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.440 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.581 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

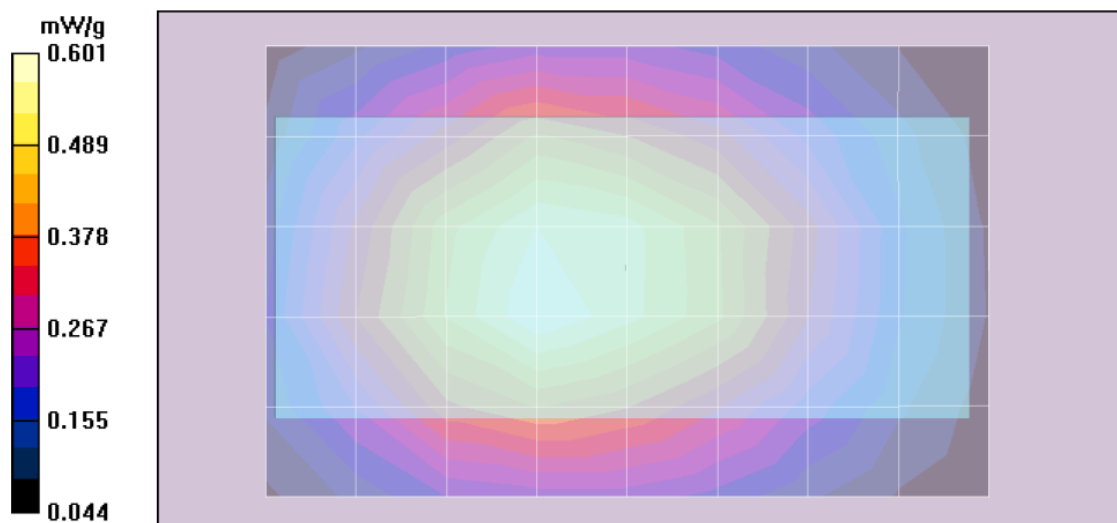
Reference Value = 24.3 V/m; Power Drift = -0.241 dB

Motorola Fast SAR: SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (interpolated) = 0.615 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.526 mW/g



Section 16.0
896-902MHz Band Assessment of the offered batteries
(Section 13.4 Table 28)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/13/2010 10:09:51 AM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100513-04
Phantom# / Tissue Temp.: SAMTP1022 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.631 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.560 mW/g (1g); 0.374 mW/g (10g)

Comments: Full Scan: Touch; Tested with Extents set to 30mm.
Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)
Electronics: DAE4 Sn729, Calibrated: 3/10/2010
Duty Cycle: 1:3, Medium parameters used: $f = 899 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Left Ear-Touch position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.2 V/m; Power Drift = -0.226 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (measured) = 0.585 mW/g

Left Ear-Touch position/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 22.2 V/m; Power Drift = -0.084 dB

Motorola Fast SAR: SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (interpolated) = 0.609 mW/g

Left Ear-Touch position/Volume 2D Scan (41x41x1): Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=1\text{mm}$

Reference Value = 22.2 V/m; Power Drift = -0.0745 dB

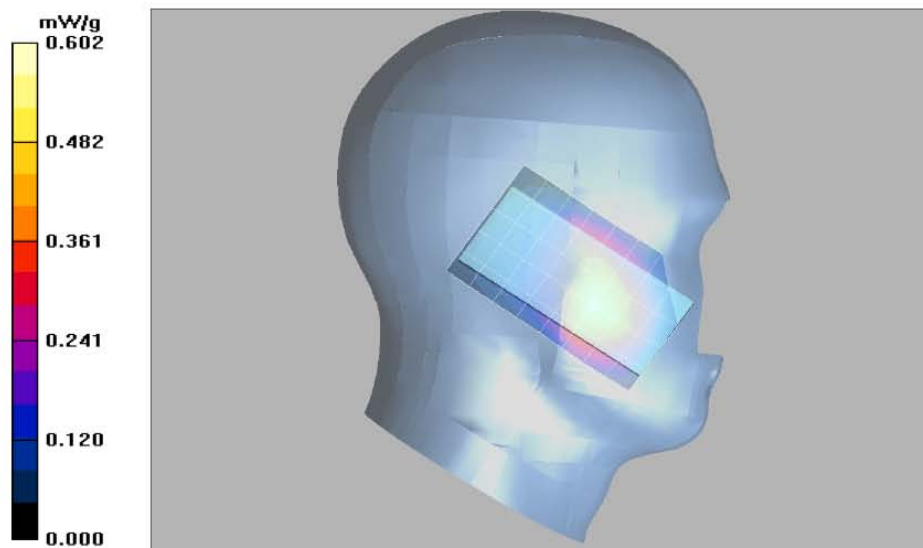
Peak SAR (extrapolated) = 0.621 W/kg

Motorola Fast SAR: SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (interpolated) = 0.621 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$

Maximum value of SAR (measured) = 0.575 mW/g



Section 17.0
896-902MHz Band Assessment of the tilt position
(Section 13.4 Table 29)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/14/2010 2:08:04 PM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100514-07
Phantom# / Tissue Temp.: SAMTP1022 / 20.0 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Cary Acc. / Cable Acc.: None / None
Start Power: 0.632 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.343 mW/g (1g); 0.251 mW/g (10g)

Comments: Full Scan: Tilt: Tested with Extents set to 30mm.
Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)
Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Left Ear-15D Tilt position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = -0.305 dB

Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.360 mW/g

Left Ear-15D Tilt position/Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.7 V/m; Power Drift = -0.326 dB

Motorola Fast SAR: SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.239 mW/g

Maximum value of SAR (interpolated) = 0.359 mW/g

Left Ear-15D Tilt position/Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 17.7 V/m; Power Drift = -0.315 dB

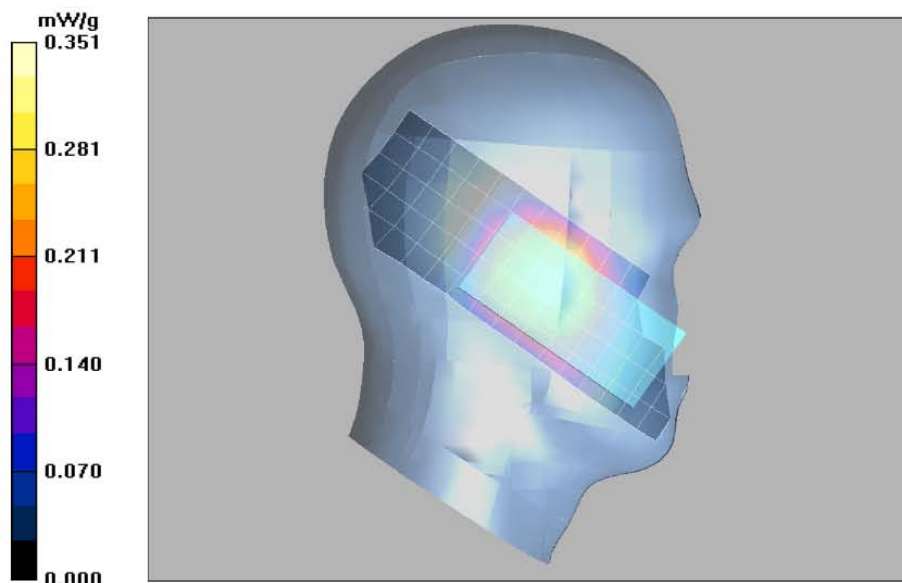
Peak SAR (extrapolated) = 0.358 W/kg

Motorola Fast SAR: SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (interpolated) = 0.358 mW/g

Left Ear-15D Tilt position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.349 mW/g



Section 18.0

896-902MHz Band Assessment of frequency band edges of the offered antenna (Section 13.4 Table 30)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/14/2010 2:43:01 PM

Robot# / Run#: DASY4-FL-2 / JsT-Lear-100514-08
Phantom# / Tissue Temp.: SAMTP1022 / 20.1 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 896.01875 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.597 mW/g (1g); 0.401 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Left Ear-Touch position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.1 V/m; Power Drift = -0.314 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

Left Ear-Touch position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

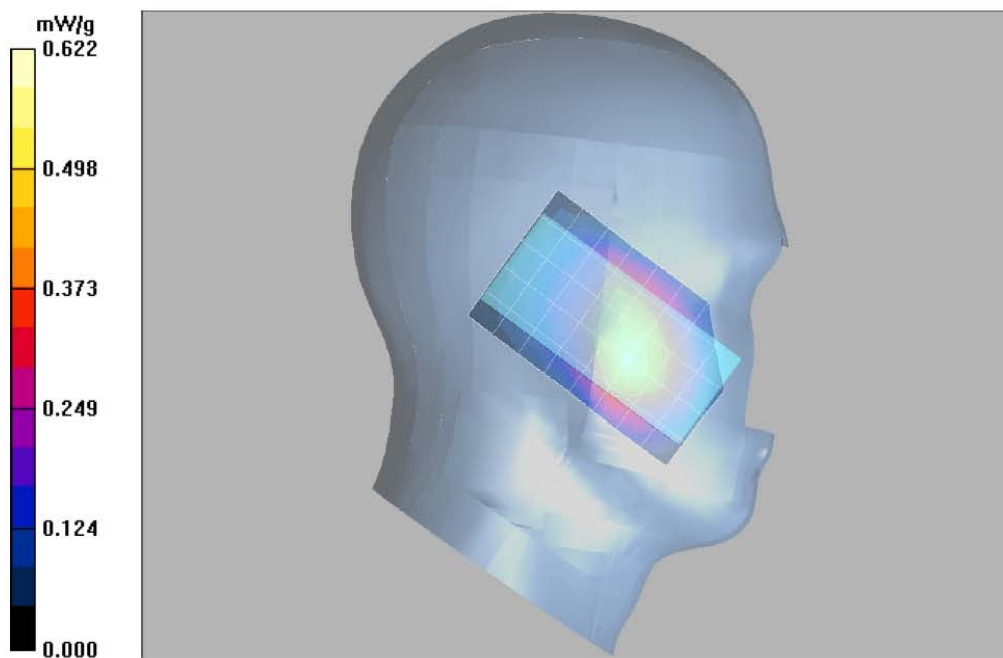
Reference Value = 22.1 V/m; Power Drift = -0.242 dB

Motorola Fast SAR: SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (interpolated) = 0.628 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.599 mW/g



Section 19.0

896-902MHz Band Assessment of the touch and tilt position (Section 13.4 Table 31)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/14/2010 3:36:41 PM

Robot# / Run#: DASY4-FL-2 / JsT-Rear-100514-11
 Phantom# / Tissue Temp.: SAMTP1022 / 19.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.633 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.529 mW/g (1g); 0.367 mW/g (10g)

Comments: Shortened Scan; Touch; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)
 Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 0.723 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.366 mW/g

Maximum value of SAR (measured) = 0.552 mW/g

Right Ear-Touch Position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

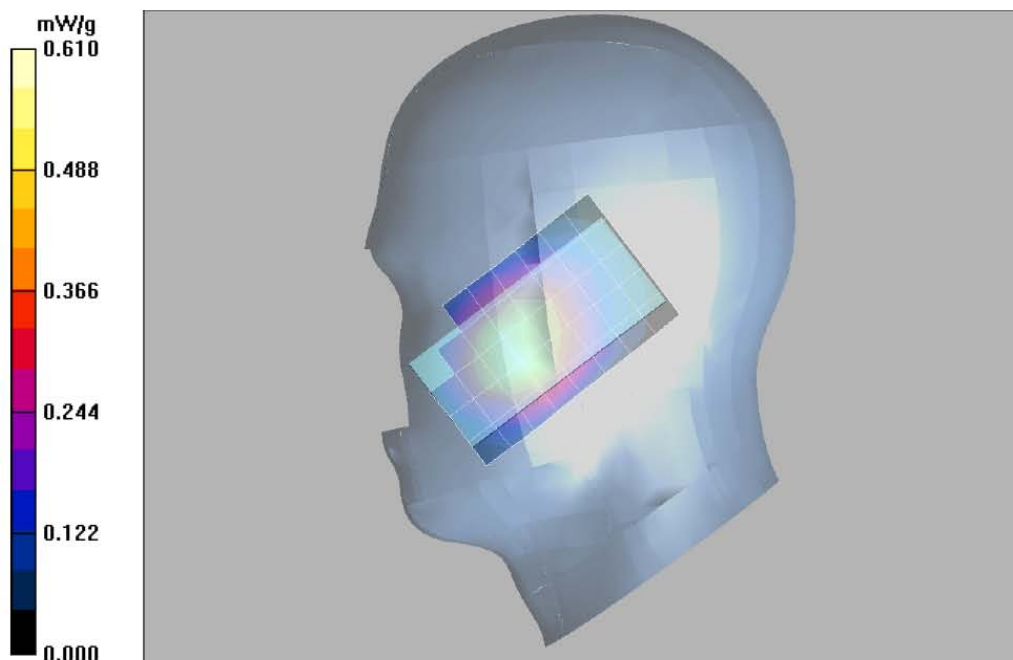
Reference Value = 25.2 V/m; Power Drift = -0.0967 dB

Motorola Fast SAR: SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (interpolated) = 0.626 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.578 mW/g



Section 20.0
896-902MHz Band Assessment of frequency band edges of the offered antenna
(Section 13.4 Table 32)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/15/2010 9:22:52 AM

Robot# / Run#: DASY4-FL-2 / JsT-Rear-100515-02
 Phantom# / Tissue Temp.: SAMTP1022 / 20.9 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 896.01875 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.629 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.514 mW/g (1g); 0.360 mW/g (10g)

Comments: Full Scan; Touch; Tested without Volume 2D and Zoom Extents set to 30mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.360 mW/g

Right Ear-Touch Position/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

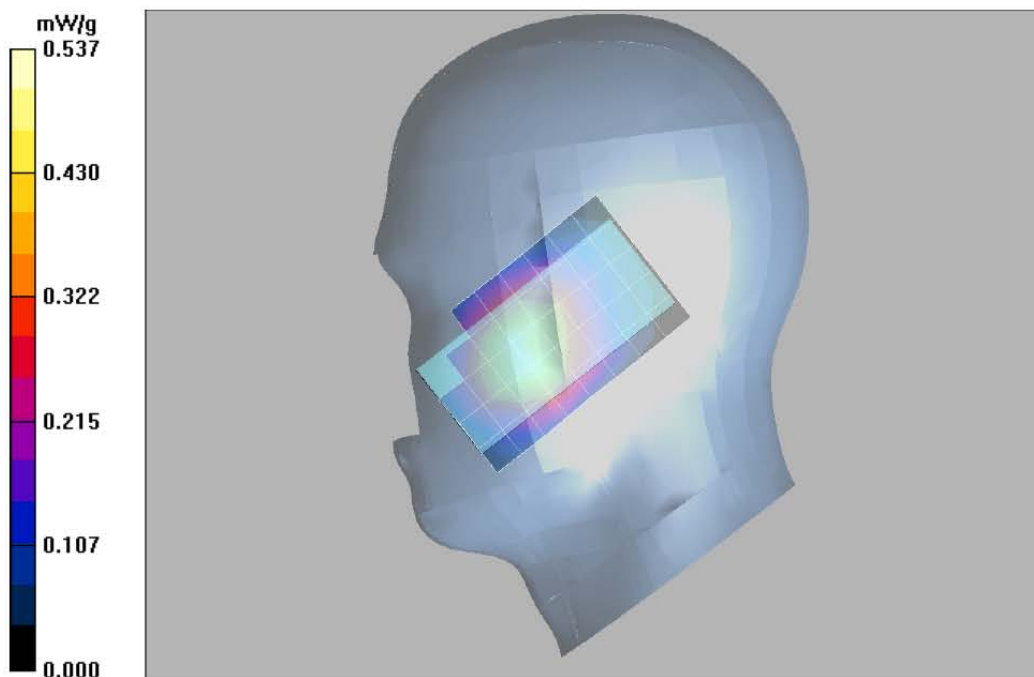
Reference Value = 24.2 V/m; Power Drift = -0.105 dB

Motorola Fast SAR: SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (interpolated) = 0.554 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.540 mW/g



Section 21.0
896-902MHz Band Assessment of the slide opened and closed
(Section 13.4 Table 33)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/15/2010 1:08:18 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100515-09
Phantom# / Tissue Temp.: SAMTP1022 / 20.4 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 898.99375 (MHz)
Battery: SNN5851A w/NTN2597xxxA
Carry Acc. / Cable Acc.: Slide Closed / None
Start Power: 0.630 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.150 mW/g (1g); 0.108 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:6, Medium parameters used: $f = 899$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.161 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

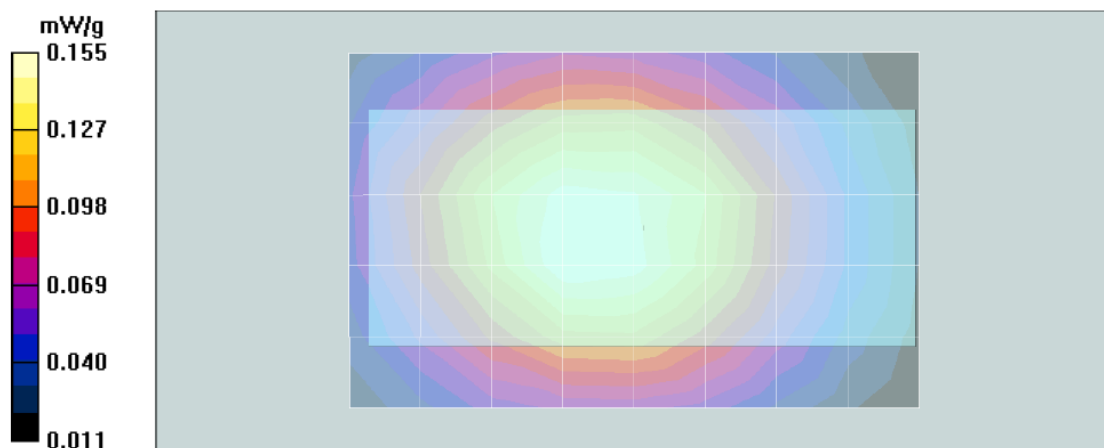
Reference Value = 12.8 V/m; Power Drift = -0.102 dB

Motorola Fast SAR: SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (interpolated) = 0.162 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.157 mW/g



Section 22.0
896-902MHz Band Assessment of frequency band edges of the offered antenna
(Section 13.4 Table 34)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/15/2010 1:37:37 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100515-10
 Phantom# / Tissue Temp.: SAMTP1022 / 20.2 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 896.01875 (MHz)
 Battery: SNN5851A w/NTN2597xxxA
 Carry Acc. / Cable Acc.: Slide Closed / None
 Start Power: 0.626 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.152 mW/g (1g); 0.110 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:6, Medium parameters used: $f = 899$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.164 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

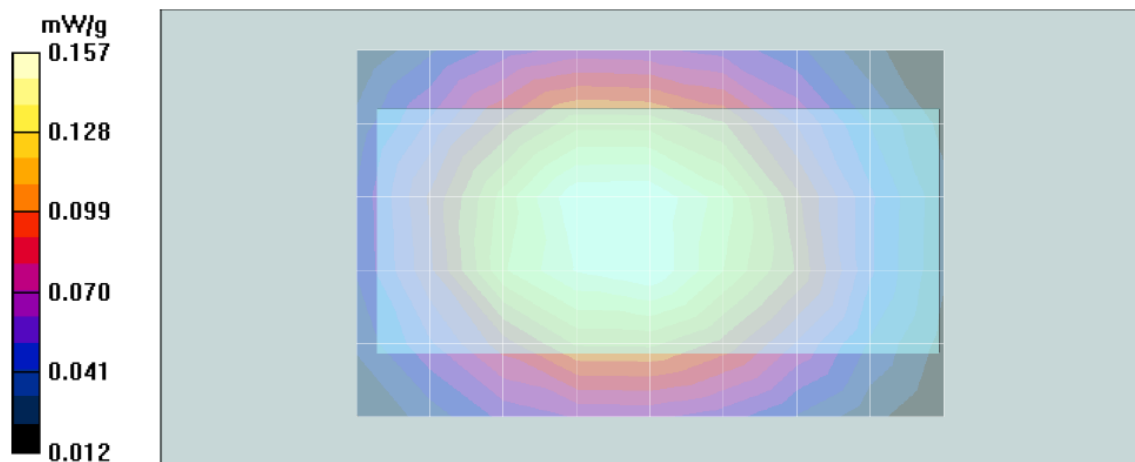
Reference Value = 12.8 V/m; Power Drift = -0.0108 dB

Motorola Fast SAR: SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.111 mW/g

Maximum value of SAR (interpolated) = 0.165 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.155 mW/g



Section 23.0
MOTotalk Assessment of the offered batteries
(Section 13.6 Table 35)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/18/2010 4:03:36 PM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100518-11
Phantom# / Tissue Temp.: OVAL1021 / 20.0 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 915.5250 (MHz)
Battery: SNN5851A w/NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / SYN1458A
Start Power: 0.799 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.17 mW/g (1g); 0.833 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.7 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.833 mW/g

Maximum value of SAR (measured) = 1.25 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

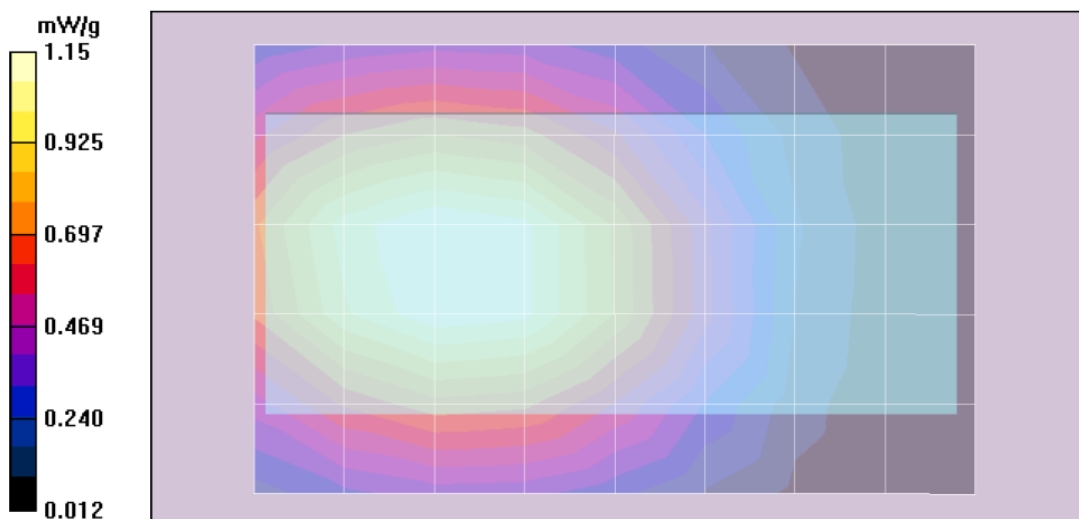
Reference Value = 33.7 V/m; Power Drift = -0.0089 dB

Motorola Fast SAR: SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.808 mW/g

Maximum value of SAR (interpolated) = 1.22 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.20 mW/g



Section 24.0
MOTotalk Assessment of the offered audio accessories
(Section 13.6 Table 36)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/19/2010 7:38:43 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100519-03
Phantom# / Tissue Temp.: OVAL1021 / 20.7 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 915.5250 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / SYN1472A
Start Power: 0.801 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.13 mW/g (1g); 0.811 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = -0.0148 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.811 mW/g

Maximum value of SAR (measured) = 1.20 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

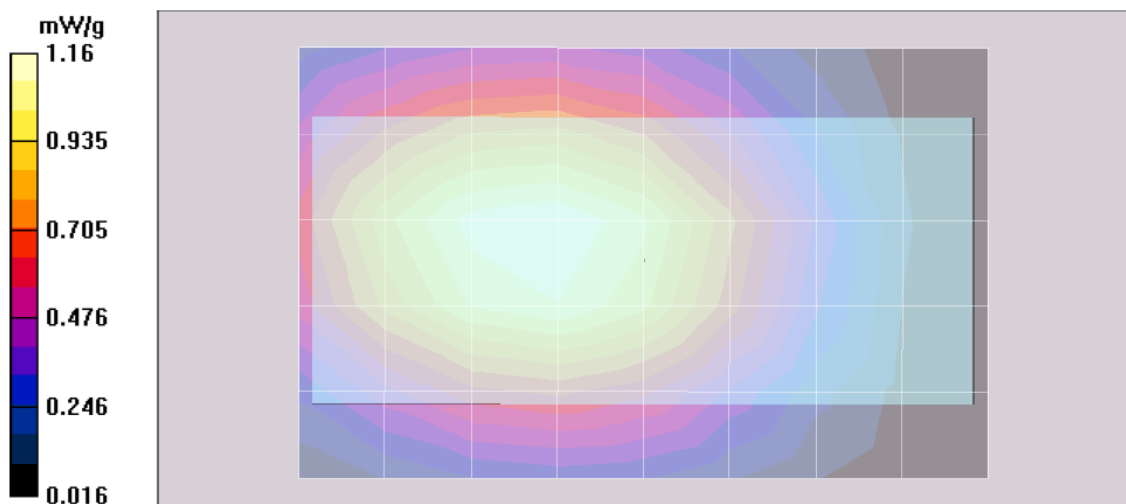
Reference Value = 33.8 V/m; Power Drift = -0.00236 dB

Motorola Fast SAR: SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.796 mW/g

Maximum value of SAR (interpolated) = 1.20 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.21 mW/g



Section 25.0
MOTotalk Assessment of frequency band edges of the offered antenna
(Section 13.6 Table 37)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/19/2010 9:28:10 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100519-05
Phantom# / Tissue Temp.: OVAL1021 / 20.2 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 902.5250 (MHz)
Battery: SNN5851A w/ NTN2597xxxA
Carry Acc. / Cable Acc.: NNTN7900A / SYN1458A
Start Power: 0.802 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.32 mW/g (1g); 0.960 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 36.2 V/m; Power Drift = 0.0743 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.960 mW/g

Maximum value of SAR (measured) = 1.39 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

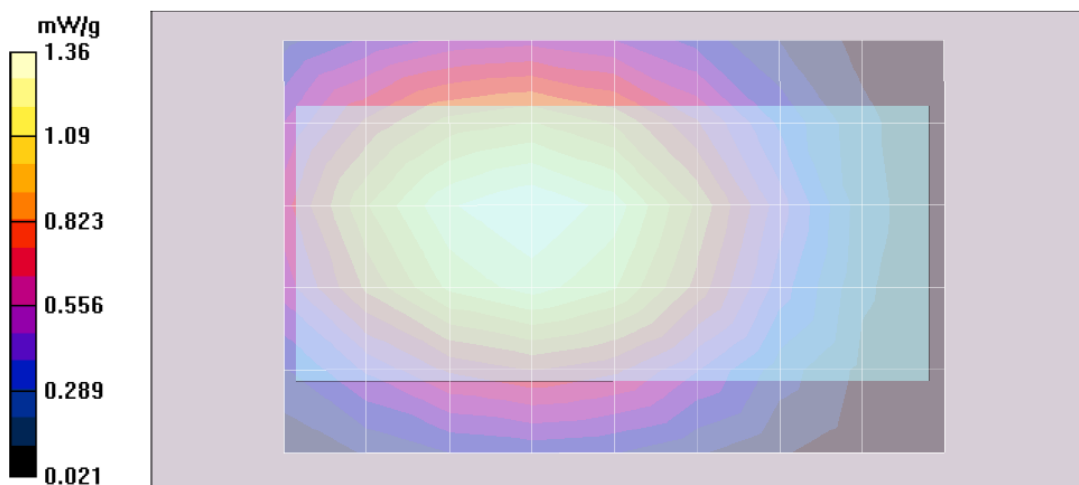
Reference Value = 36.2 V/m; Power Drift = 0.000234 dB

Motorola Fast SAR: SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.913 mW/g

Maximum value of SAR (interpolated) = 1.37 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.41 mW/g



Section 26.0
MOTotalk Assessment without body worn accessory at 2.5cm
(Section 13.6 Table 38)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/19/2010 11:47:00 AM

Robot# / Run#: DASY4-FL-2 / JsT-Ab-100519-08
 Phantom# / Tissue Temp.: OVAL1021 / 19.7 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 902.5250 (MHz)
 Battery: SNN5851A w/ NTN2597xxxA
 Carry Acc. / Cable Acc.: None / SYN1458A
 Start Power: 0.803 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.16 mW/g (1g); 0.832 mW/g (10g)

Comments: Full Scan; Back of DUT @ 2.5 cm (Slide Closed)
 Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.81, 5.81, 5.81)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Ab Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.832 mW/g

Maximum value of SAR (measured) = 1.23 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

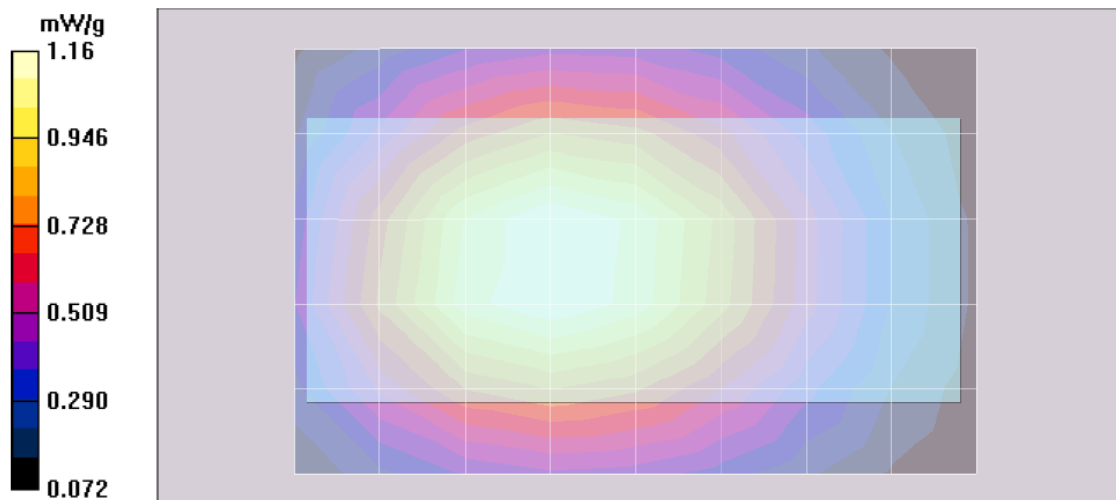
Reference Value = 33.8 V/m; Power Drift = 0.0471 dB

Motorola Fast SAR: SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.813 mW/g

Maximum value of SAR (interpolated) = 1.21 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.22 mW/g



Section 27.0
MOTotalk Assessment of the offered batteries
(Section 13.6 Table 39)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/15/2010 5:56:03 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100515-18
 Phantom# / Tissue Temp.: SAMTP1022 / 20.0 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 915.5250 (MHz)
 Battery: SNN5837A w/ NTN3000xxxxA
 Carry Acc. / Cable Acc.: Slide Opened / None
 Start Power: 0.793 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 0.764 mW/g (1g); 0.557 mW/g (10g)

Comments: Shortened Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.4 V/m; Power Drift = -0.0107 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.764 mW/g; SAR(10 g) = 0.557 mW/g

Maximum value of SAR (measured) = 0.806 mW/g

Face Scan/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm

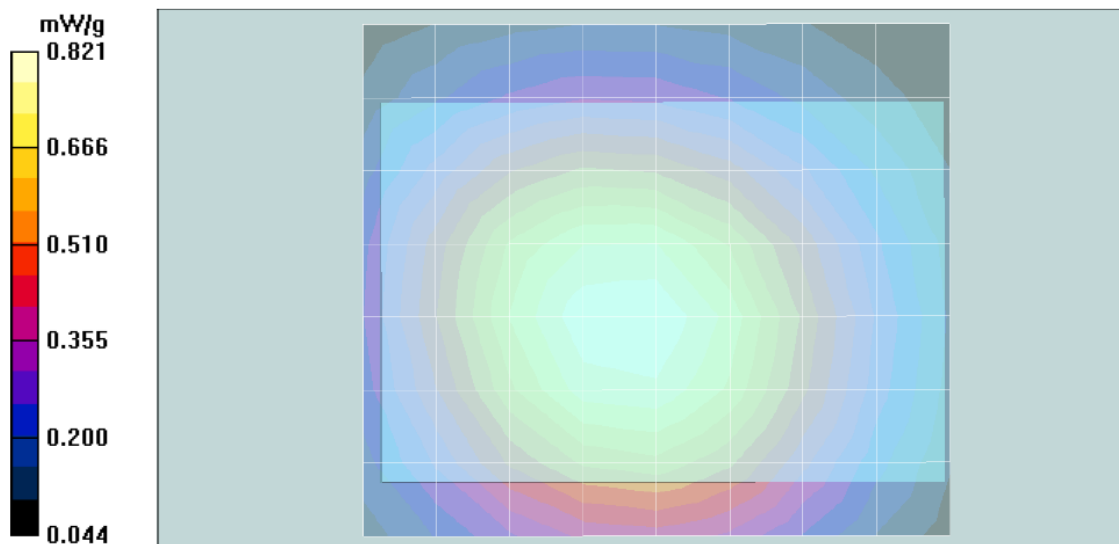
Reference Value = 28.5 V/m; Power Drift = 0.0442 dB

Motorola Fast SAR: SAR(1 g) = 0.790 mW/g; SAR(10 g) = 0.562 mW/g

Maximum value of SAR (interpolated) = 0.834 mW/g

Face Scan/Z-Axis Scan 2 (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.710 mW/g



Section 28.0
MOTotalk Assessment of the slide opened and closed
(Section 13.6 Table 40)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 5/20/2010 1:56:24 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100520-07
Phantom# / Tissue Temp.: SAMTP1022 / 19.4 (C)
DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
Antenna / TX Freq.: 85009280001 (Internal) / 915.5250 (MHz)
Battery: SNN5837A w/NTN3000xxxA
Carry Acc. / Cable Acc.: Slide Closed / None
Start Power: 0.800 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.04 mW/g (1g); 0.746 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 32.9 V/m; Power Drift = 0.000927 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.746 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

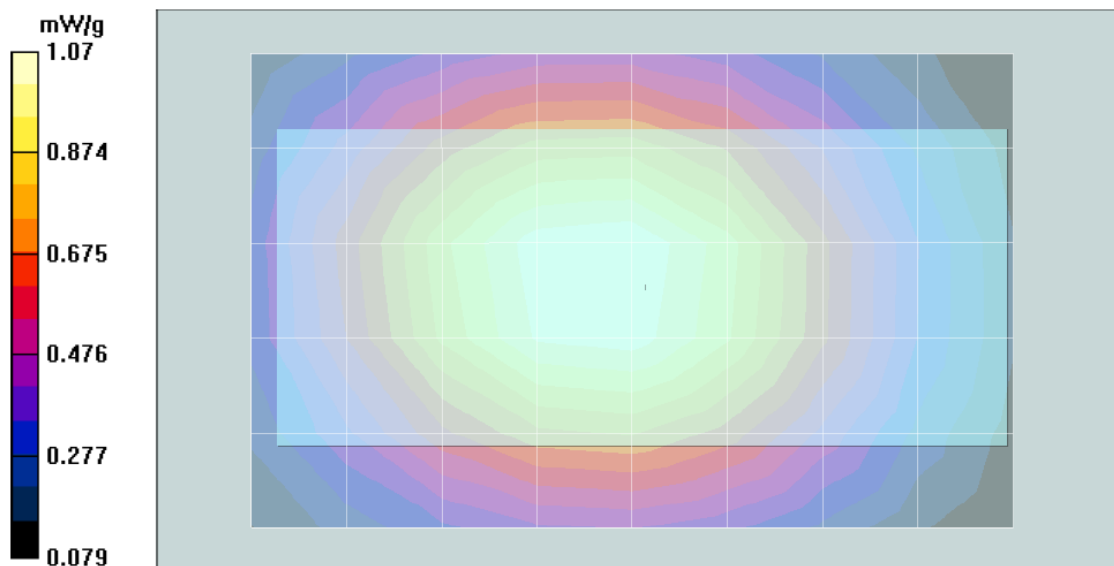
Reference Value = 32.9 V/m; Power Drift = 0.100 dB

Motorola Fast SAR: SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.746 mW/g

Maximum value of SAR (interpolated) = 1.12 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.10 mW/g



Section 29.0
MOTotalk Assessment of frequency band edges of the offered antenna
(Section 13.6 Table 41)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 5/20/2010 3:27:35 PM

Robot# / Run#: DASY4-FL-2 / JsT-Face-100520-08
 Phantom# / Tissue Temp.: SAMTP1022 / 19.6 (C)
 DUT Model# / Serial#: H86XAH6JR7AN / 364VLGM8FD
 Antenna / TX Freq.: 85009280001 (Internal) / 902.5250 (MHz)
 Battery: SNN5837A w/NTN3000xxxxA
 Carry Acc. / Cable Acc.: Slide Closed / None
 Start Power: 0.802 (W)

Note:

Prior to recording the reported SAR values below, the measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported: 1.33 mW/g (1g); 0.952 mW/g (10g)

Comments: Full Scan; Tested without Volume 2D and Zoom Extents set to 45mm.

Probe: ES3DV3 - SN3147, Calibrated: 2/18/2010, ConvF(5.85, 5.85, 5.85)

Electronics: DAE4 Sn729, Calibrated: 3/10/2010

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Face Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.3 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.952 mW/g

Maximum value of SAR (measured) = 1.40 mW/g

Face Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

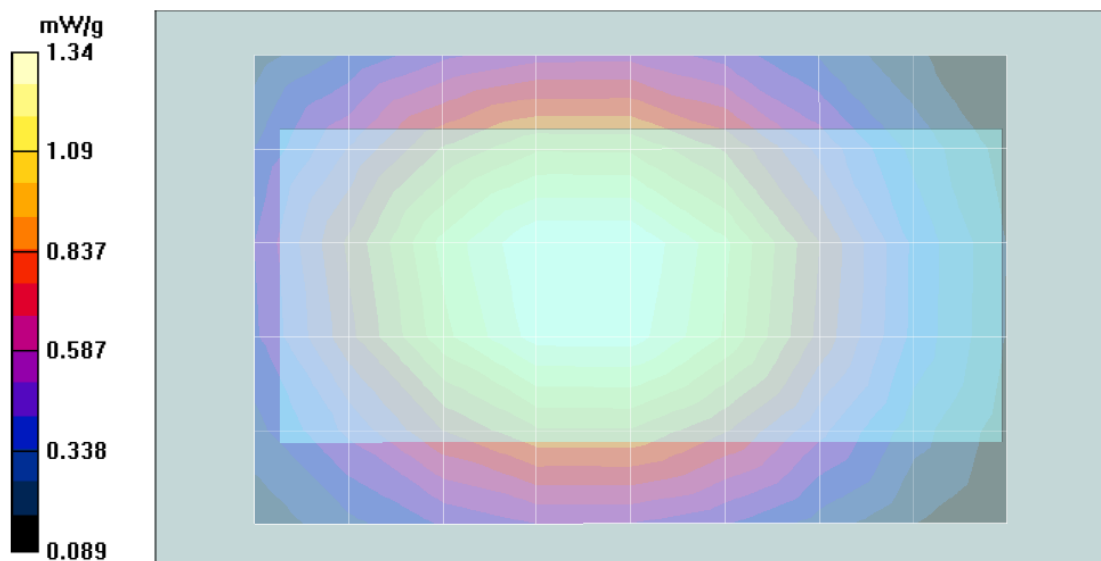
Reference Value = 37.3 V/m; Power Drift = 0.0456 dB

Motorola Fast SAR: SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.938 mW/g

Maximum value of SAR (interpolated) = 1.40 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.38 mW/g



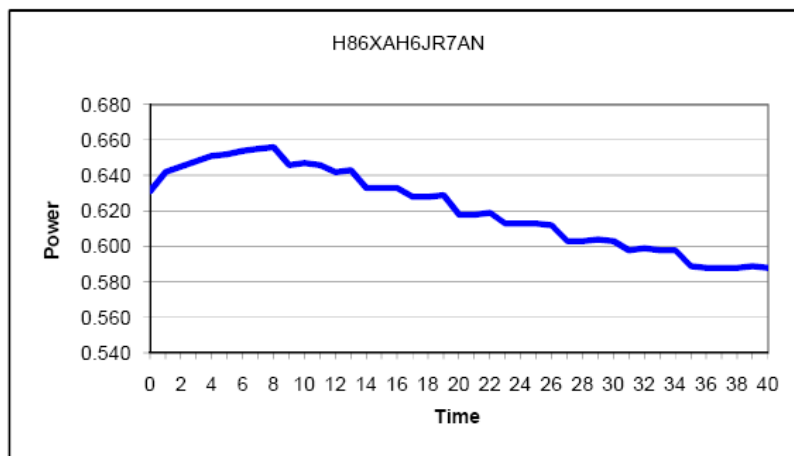
APPENDIX G
DUT Supplementary Data (Power slump)

Model # H86XAH6JR7AN
Serial # 364VLGM8FD

Battery SNN5851A **Transmit Mode** Packet Data-81:120
Frequency 824.9875 MHz **Audio Accessory** None
Date 5/21/2010
 Used iDen RF Cable #012 with offset of 0.4 dB

TX TIME **Measured Power**
(Minutes) **(Watts)**

0	0.631
1	0.642
2	0.645
3	0.648
4	0.651
5	0.652
6	0.654
7	0.655
8	0.656
9	0.646
10	0.647
11	0.646
12	0.642
13	0.643
14	0.633
15	0.633
16	0.633
17	0.628
18	0.628
19	0.629
20	0.618
21	0.618
22	0.619
23	0.613
24	0.613
25	0.613
26	0.612
27	0.603
28	0.603
29	0.604
30	0.603
31	0.598
32	0.599
33	0.598
34	0.598
35	0.589
36	0.588
37	0.588
38	0.588
39	0.589
40	0.588



Appendix H

DUT Test Position Photos

Photos available in Exhibit 7B

Appendix I
DUT and Body worn Accessory Photos

Photos available in Exhibit 7B