



MOTOROLA



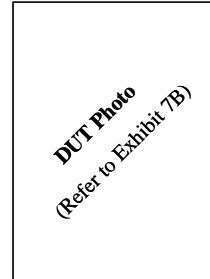
TESTING CERT # 2518.01

**FCC ID: IHDP56HJ1
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2**

**Government & Public Safety
EME Test Laboratory
8000 West Sunrise Blvd
Fort Lauderdale, FL. 33322**

**Date of Report: 5/14/2008
Report Revision: 0
Report ID: i365-IS_Rev O_080514_SR6343**

Responsible Engineer: Kim Uong (Principle Staff EME Eng.)
Date/s Tested: 4/29/2008 – 5/5/2008
Manufacturer/Location: Motorola – China
Sector/Group/Div.: iDEN Subscriber
Date submitted for test: 4/14/08
DUT Description: TDMA: 236:310 (WiDEN), 81:120, 2:6, 1:12, and 1:6; 64 QAM, 16QAM, and QPSK Modulations; 0.6W Pulse Avg; MOTOTalk: 114:120 8FSK; 0.85W nominal, GPS and Bluetooth Capable
Test TX mode(s): iDEN: 1:6, 1:3; WiDEN: 236:310; MOTOTalk: 114:120; BT: 100%
Max. Power output: 640mW pulsed average (iDEN/WiDEN); 891mW (MOTOTalk); 2.5mW (BT)
Nominal Power: 600mW Pulse Average (iDEN/WiDEN); 850mW (MOTOTalk); 1.0mW (BT)
Tx Frequency Bands: 806-825, 896-902 MHz (iDEN/WiDEN); 902-928 MHz (MOTOTalk); 2.402-2.480 GHz (BT)
Signaling type: iDEN: 1:6, 1:3, 81:120; WiDEN: 236:310; MOTOTalk: 114:120; BT:FHSS
Model(s) Tested: H01XAN6JR6AN / NWF1339A
Model(s) Certified: H01XAN6JR6AN / NWF1339A
Serial Number(s): 364VJG32QL, 364VJG2ZWB
Classification: General Population/Uncontrolled
Rule Part(s): 15 & 90



Approved Accessories:

Antenna(s):
 8585424F01 (Fixed antenna 806-941MHz, 1/2 wave, -0.69dBd to -0.11dBd gain)
 8475037M01 (Stripline 2400-2480MHz, 1/4 wave, -3.02dBd to -1.16dBd gain)

Battery(ies):
 SNN5840A (Maximum Capacity Li-Ion Battery), NTN2500MOTA (Maximum Capacity Battery Door)

Body worn accessory(ies):
 NNTN7313A (Swivel Carry Holster), NNTN4747A (Belt Clip)

Audio/Data cable accessory(ies):
 NNTN5330B (PTT Headset, Earbud), NNTN5211B (2-Wire Surveillance Headset), NNTN6312A (3-Wire Surveillance Headset), NNTN5406B (RS-232 Data Cable w/Charging), NNTN5405B (USB Data Cable w/Charging)

**Max. Calc. : 1-g Avg. SAR: 1.28 W/kg (Body); 10-g Avg. SAR: 0.94 W/kg (Body)
 Max. Calc. : 1-g Avg. SAR: 0.66 W/kg (Face); 10-g Avg. SAR: 0.47 W/kg (Face)
 Max. Calc. : 1-g Avg. SAR: 1.09 W/kg (Head); 10-g Avg. SAR: 0.74 W/kg (Head)**

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6W/kg 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 300GHz), Health Physics 74, 494-522 RF Exposure limits of 2W/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 2.0 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 –Stephen Whalen for Deanna Zakharia
**Deanna Zakharia G&PS EME Lab Senior Resource Manager,
 Laboratory Director**

Approval Date: 5/14/08

Certification Date: 5/14/08

Certification No.: L1080505P

Appendix C
Dipole Calibration Certificates

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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Motorola CGISS**

Certificate No: **D835V2-435_Sep06**

CALIBRATION CERTIFICATE

Object: **D835V2 - SN: 435**

Calibration procedure(s): **QA CAL-05.v6
Calibration procedure for dipole validation kits**

Calibration date: **September 12, 2006**

Condition of the calibrated item: **In Tolerance**

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-05 (METAS, No. 251-00516)	Oct-06
Power sensor HP 8481A	US37292783	04-Oct-05 (METAS, No. 251-00516)	Oct-06
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ET3DV6	SN 1507	28-Oct-05 (SPEAG, No. ET3-1507_Oct05)	Oct-06
DAE4	SN 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Nov-05)	In house check: Nov-06

Calibrated by:	Name Mike Melli	Function Laboratory Technician	Signature <i>M. Melli</i>
Approved by:	Katja Pokovic	Technical Manager	<i>Katja Pokovic</i>

Issued: September 12, 2006

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Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: SCS 108

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:

- a) 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
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
- c) 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:

- d) DASy4 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	DASY4	V4.7
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 ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.7 ± 6 %	0.89 mho/m ± 6 %
Head TSL temperature during test	(23.6 ± 0.2) °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	2.29 mW / g
SAR normalized	normalized to 1W	9.16 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	9.25 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.50 mW / g
SAR normalized	normalized to 1W	6.00 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	6.04 mW / g ± 16.5 % (k=2)

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.5 Ω - 6.5 j Ω
Return Loss	-23.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.392 ns
----------------------------------	----------

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	December 15, 2000

DASY4 Validation Report for Head TSL

Date/Time: 12.09.2006 17:28:03

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 435

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

Medium: HSL 900 MHz;

Medium parameters used: $f = 835$ MHz; $\sigma = 0.893$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(6.09, 6.09, 6.09); Calibrated: 28.10.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

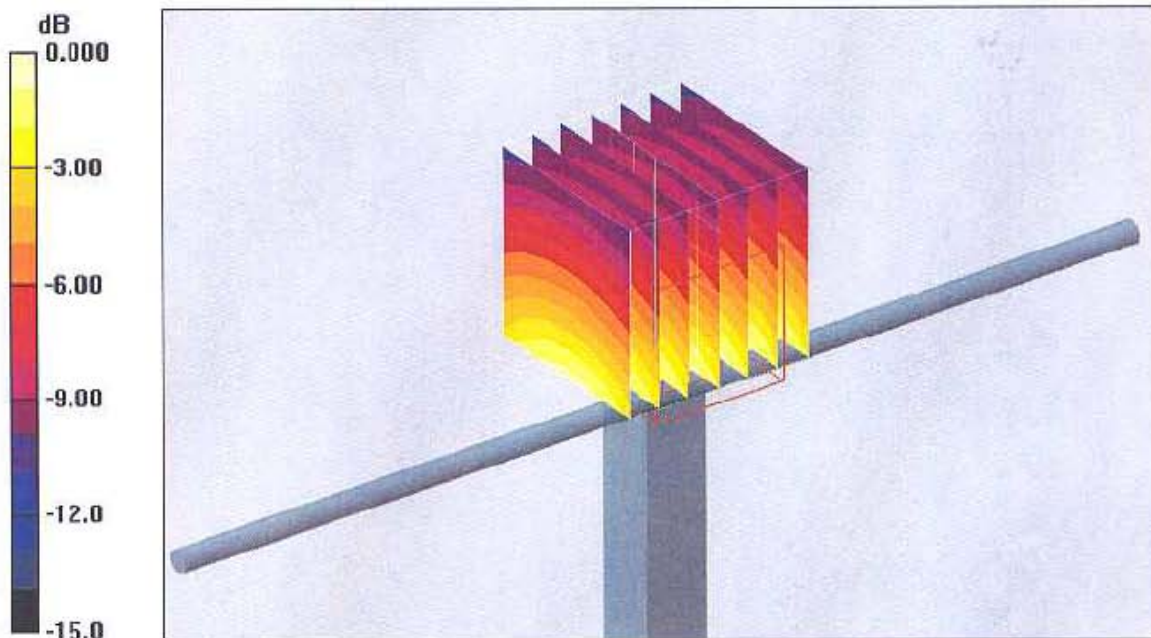
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.8 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 3.42 W/kg

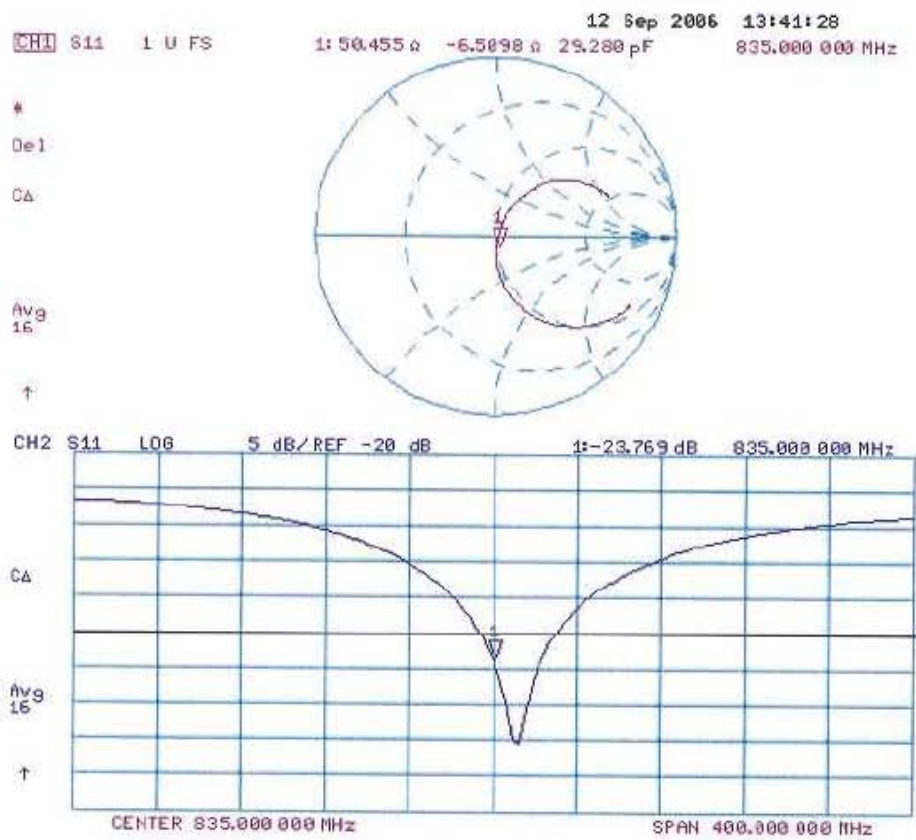
SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.5 mW/g

Maximum value of SAR (measured) = 2.48 mW/g



0 dB = 2.48mW/g

Impedance Measurement Plot for Head TSL



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Accreditation No.: **SCS 108**

Client **Motorola CGISS**

Certificate No: **D2450V2-704_Nov06**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 704**

Calibration procedure(s) **QA CAL-05.v6
Calibration procedure for dipole validation kits**

Calibration date: **November 10, 2006**

Condition of the calibrated item **In Tolerance**

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Power sensor HP 8481A	US37292783	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ES3DV2	SN 3025	19-Oct-06 (SPEAG, No. ES3-3025_Oct06)	Oct-07
DAE4	SN 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

Calibrated by: **Marcel Fehr** (Name), **Laboratory Technician** (Function), *[Signature]* (Signature)

Approved by: **Katja Pokovic** (Name), **Technical Manager** (Function), *[Signature]* (Signature)

Issued: November 14, 2006

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Accreditation No.: **SCS 108**

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
- CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
- 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 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	DASY4	V4.7
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	39.3 \pm 6 %	1.78 mho/m \pm 6 %
Head TSL temperature during test	(21.0 \pm 0.2) °C	-----	-----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	13.4 mW / g
SAR normalized	normalized to 1W	53.6 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	53.9 mW / g \pm 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.23 mW / g
SAR normalized	normalized to 1W	24.9 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	25.0 mW / g \pm 16.5 % (k=2)

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$52.5 \Omega + 2.4 j\Omega$
Return Loss	- 29.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.152 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	March 22, 2001

DASY4 Validation Report for Head TSL

Date/Time: 10.11.2006 13:41:01

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN704

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB_060425;

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.77$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3025 (HF); ConvF(4.5, 4.5, 4.5); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

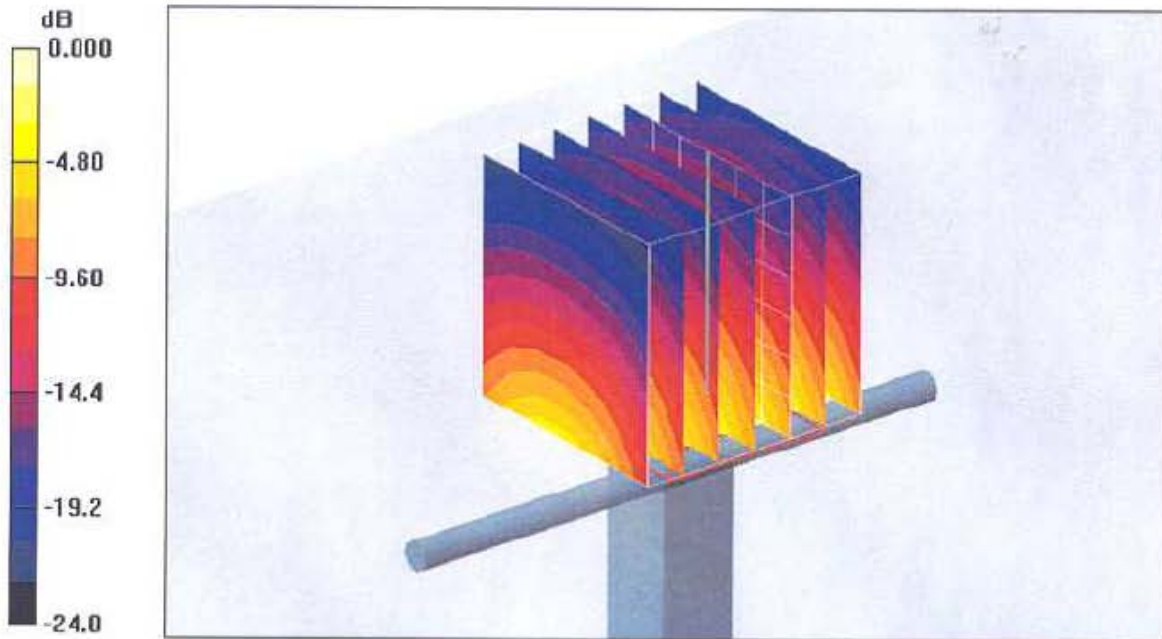
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.4 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 27.9 W/kg

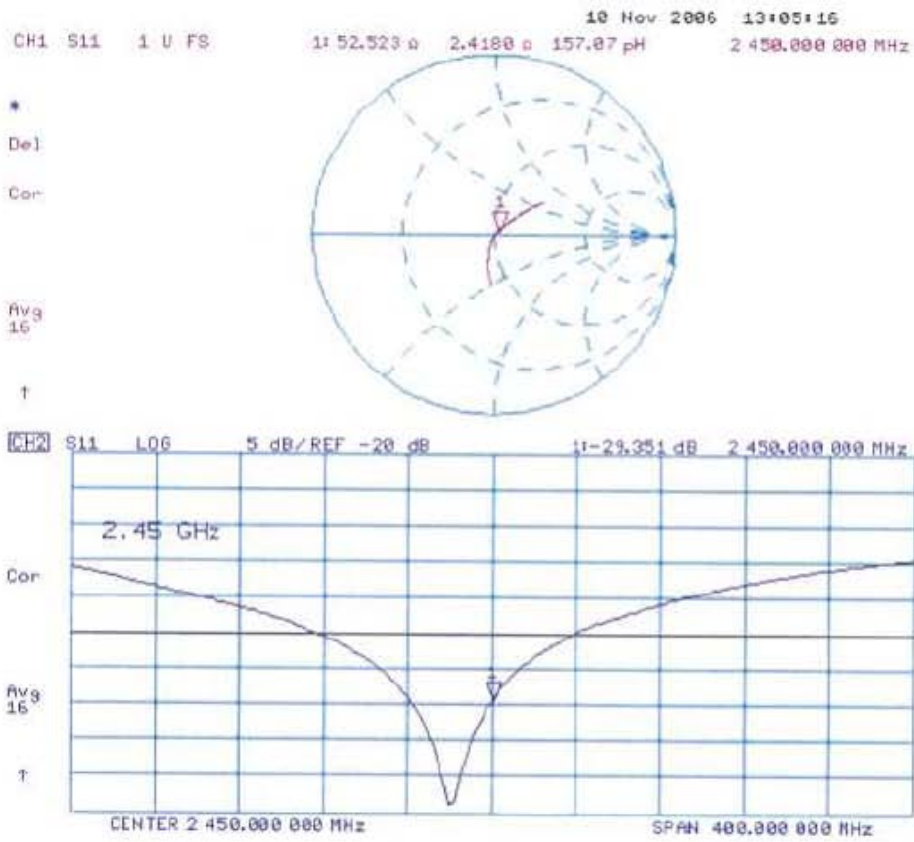
SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.23 mW/g

Maximum value of SAR (measured) = 14.9 mW/g



0 dB = 14.9mW/g

Impedance Measurement Plot for Head TSL



Appendix D

Test System Verification Scans

Dipole validation scans at the head from SPEAG are provided in APPENDIX C. G&PS' EME lab validates its' dipole(s) to the applicable IEEE system performance targets. A system validation was performed using FCC body tissue parameters to generate the system performance target values for body at the applicable frequency. Dipoles are assessed using multiple probes and measurements were performed using the isotropic assessment procedure mentioned below.

To assess the isotropic characteristics of the measurement probe, two system performance zoom scans (0 and 90 degrees) were measured. The measured results were averaged together in order to obtain the final calculated 1 gram results.

The results obtained from each probe were then averaged together to determine the new measured SAR target.

Motorola Government & Public Safety EME Laboratory

Date/Time: 4/29/2008 7:10:29 AM

Robot# / Run#: DASY4-FL-3/ ErC-SYSP-835H-080429-01
 Phantom# / Tissue Temp.: SAMTP1234 / 20.9 (C)
 Dipole Model# / Serial#: D835V2 / 435
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 9.56 mW/g (1g)
 Calculated: 9.50 mW/g (1g)
 Percent from Target (+/-): 0.6 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 43$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 53.3 V/m; Power Drift = -0.00732 dB
 Peak SAR (extrapolated) = 3.63 W/kg
 SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.54 mW/g
 Maximum value of SAR (measured) = 2.57 mW/g

System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

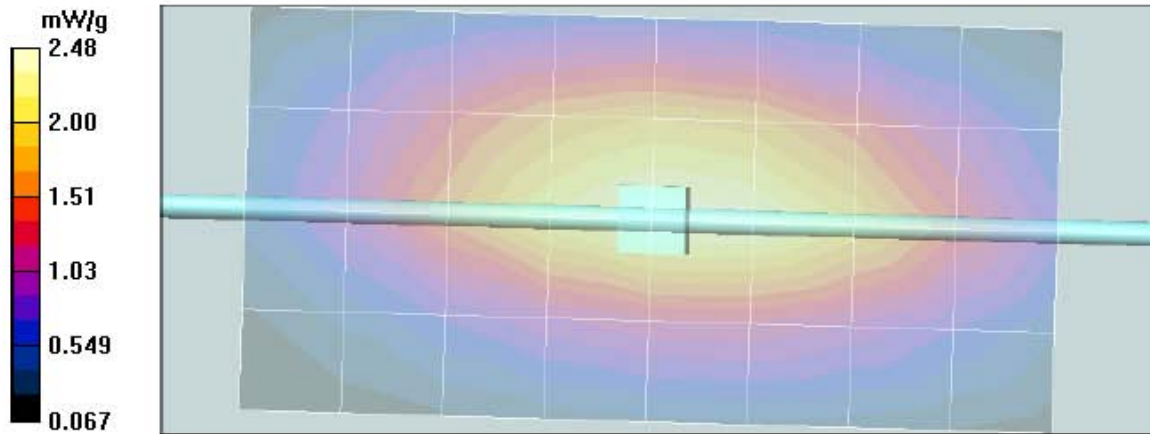
$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 53.3 V/m; Power Drift = -0.00732 dB
 Peak SAR (extrapolated) = 3.61 W/kg
 SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.54 mW/g
 Maximum value of SAR (measured) = 2.55 mW/g

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

Maximum value of SAR (measured) = 2.48 mW/g

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

$dz=10$ mm
 Maximum value of SAR (measured) = 2.56 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 4/30/2008 4:29:09 PM

Robot# / Run#: DASY4-FL-3/ MeC-SYSP-835H-080430-01
Phantom# / Tissue Temp.: SAMTP1234 / 20.6 (C)
Dipole Model# / Serial#: D835V2 / 435
TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 9.56 mW/g (1g)
Calculated: 9.14 mW/g (1g)
Percent from Target (+/-): 4.4 % (1g)

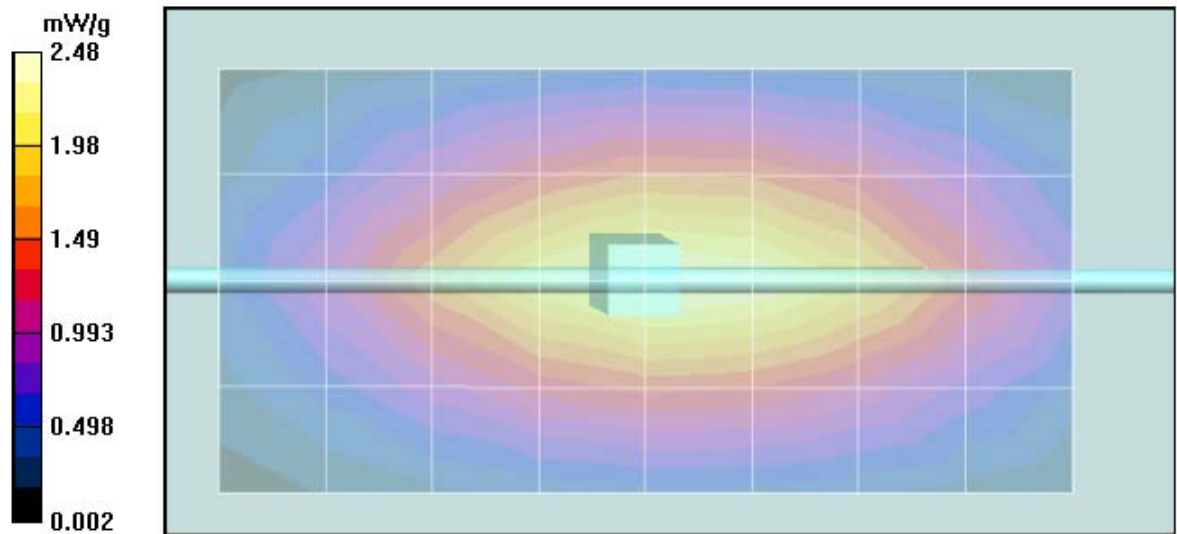
Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)
Electronics: DAE3 Sn374, Calibrated: 1/31/2008
Duty Cycle: 1:1, Medium parameters used: f = 835 MHz; sigma = 0.92 mho/m; epsilon = 41.4; rho = 1000 kg/m^3

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 53.5 V/m; Power Drift = -0.0064 dB
Peak SAR (extrapolated) = 3.47 W/kg
SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.47 mW/g
Maximum value of SAR (measured) = 2.44 mW/g

System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 53.5 V/m; Power Drift = -0.0064 dB
Peak SAR (extrapolated) = 3.54 W/kg
SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.48 mW/g
Maximum value of SAR (measured) = 2.46 mW/g

System Performance Check/Dipole Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 53.5 V/m; Power Drift = -0.0064 dB
Motorola Fast SAR: SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.55 mW/g
Maximum value of SAR (interpolated) = 2.48 mW/g

System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.48 mW/g



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 Date/Time: 5/1/2008 6:39:10 AM

Robot# / Run#: DASY4-FL-3/ ErC-SYSP-835H-080501-01
 Phantom# / Tissue Temp.: SAMTP1234 / 20.9 (C)
 Dipole Model# / Serial#: D835V2 / 435
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 9.56 mW/g (1g)
 Calculated: 9.24 mW/g (1g)
 Percent from Target (+/-): 3.3 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008
 Duty Cycle: 1:1, Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 53.2 V/m; Power Drift = -0.00532 dB
 Peak SAR (extrapolated) = 3.56 W/kg
 SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.49 mW/g
 Maximum value of SAR (measured) = 2.49 mW/g

System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

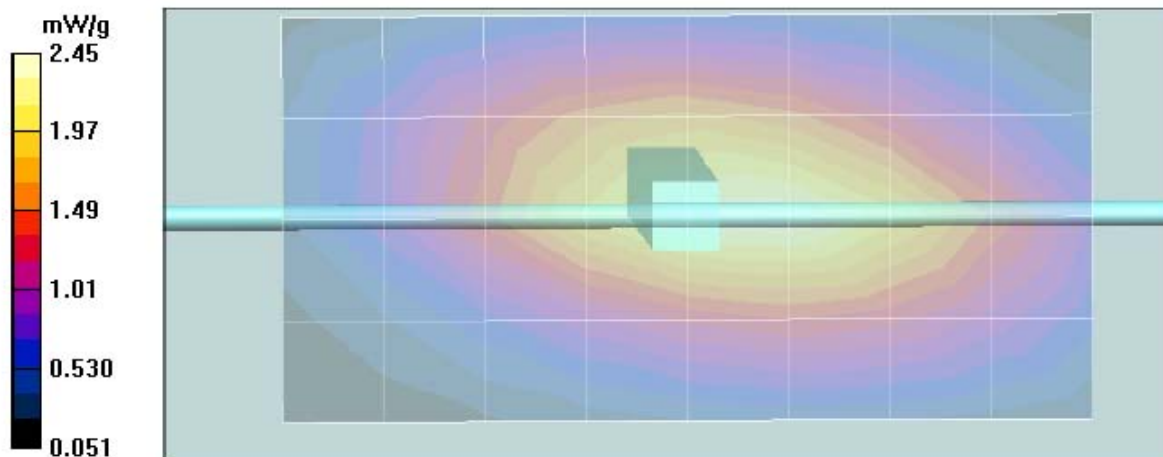
dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 53.2 V/m; Power Drift = -0.00532 dB
 Peak SAR (extrapolated) = 3.54 W/kg
 SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.5 mW/g

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

Maximum value of SAR (measured) = 2.45 mW/g

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

Maximum value of SAR (measured) = 2.46 mW/g



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Date/Time: 5/2/2008 7:36:39 AM

Robot# / Run#: DASY4-FL-3/ ErC-SYSP-835B-080502-01
 Phantom# / Tissue Temp.: 80302002D-S15 / 20.2 (C)
 Dipole Model# / Serial#: D835V2 / 435
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 10.05 mW/g (1g)
 Calculated: 10.34 mW/g (1g)
 Percent from Target (+/-): 2.7 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.16, 6.16, 6.16)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 54.2 V/m; Power Drift = -0.104 dB
 Peak SAR (extrapolated) = 3.96 W/kg
 SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.67 mW/g
 Maximum value of SAR (measured) = 2.80 mW/g

System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

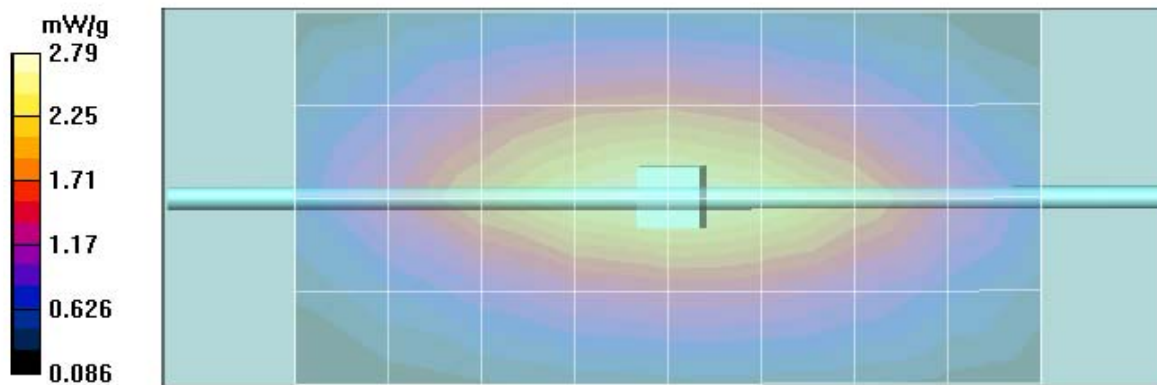
$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 54.2 V/m; Power Drift = -0.104 dB
 Peak SAR (extrapolated) = 3.99 W/kg
 SAR(1 g) = 2.59 mW/g; SAR(10 g) = 1.68 mW/g
 Maximum value of SAR (measured) = 2.82 mW/g

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

Maximum value of SAR (measured) = 2.79 mW/g

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

$dz=10$ mm



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Date/Time: 5/2/2008 10:15:24 PM

Robot# / Run#: DASY4-FL-3/ MeC-SYSP-2450B-080502-01
 Phantom# / Tissue Temp.: 40302002B-S12 / 20.5 (C)
 Dipole Model# / Serial#: D2450V2 / 435
 TX Freq. / Start power: 2450 (MHz) / 250 (mW)

Target: 53.74 mW/g (1g)
 Calculated: 53.40 mW/g (1g)
 Percent from Target (+/-): 0.6 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(4.17, 4.17, 4.17)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 91.0 V/m; Power Drift = 0.0133 dB
 Peak SAR (extrapolated) = 30.9 W/kg
 SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.1 mW/g
 Maximum value of SAR (measured) = 14.8 mW/g

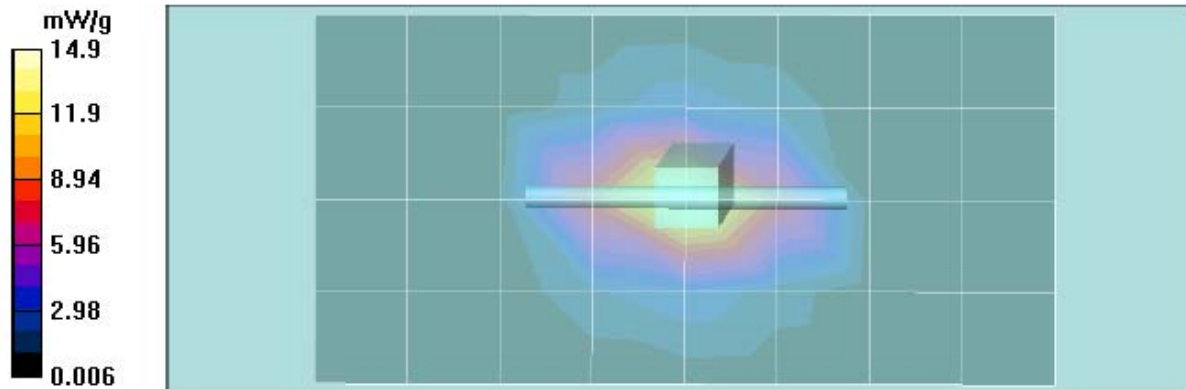
System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 91.0 V/m; Power Drift = 0.0133 dB
 Peak SAR (extrapolated) = 30.7 W/kg
 SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.06 mW/g

System Performance Check/Dipole Area Scan (41x81x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Reference Value = 91.0 V/m; Power Drift = 0.0133 dB
 Motorola Fast SAR: SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.32 mW/g
 Maximum value of SAR (interpolated) = 14.9 mW/g

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



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Date/Time: 5/3/2008 12:12:18 AM

Robot# / Run#: DASY4-FL-3/ MeC-SYSP-835B-080503-02
 Phantom# / Tissue Temp.: 80302002D-S15 / 20.5 (C)
 Dipole Model# / Serial#: D835V2 / 435
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 10.05 mW/g (1g)
 Calculated: 9.74 mW/g (1g)
 Percent from Target (+/-): 2.9 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.16, 6.16, 6.16)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008
 Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 52.9 V/m; Power Drift = -0.0155 dB
 Peak SAR (extrapolated) = 3.70 W/kg
 SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.57 mW/g
 Maximum value of SAR (measured) = 2.61 mW/g

System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

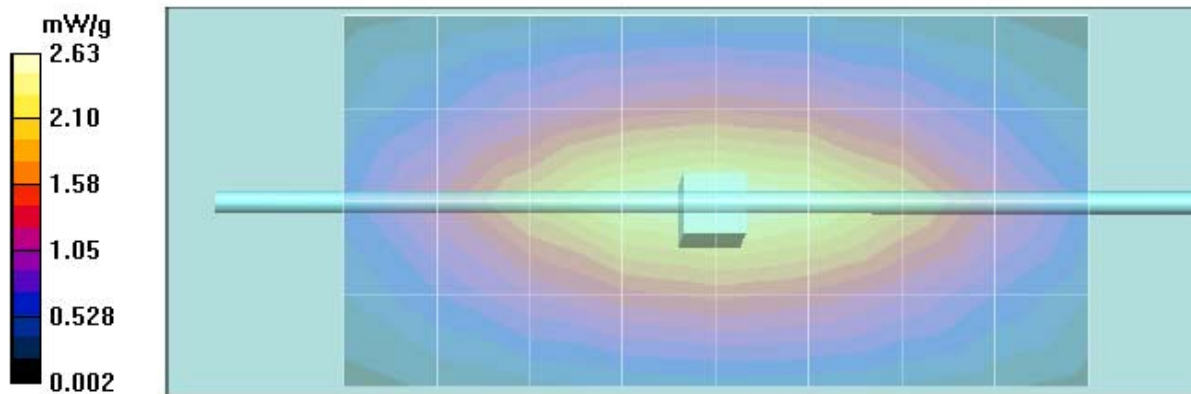
$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 52.9 V/m; Power Drift = -0.0155 dB
 Peak SAR (extrapolated) = 3.75 W/kg
 SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.59 mW/g
 Maximum value of SAR (measured) = 2.65 mW/g

System Performance Check/Dipole Area Scan (41x81x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Reference Value = 52.9 V/m; Power Drift = -0.0155 dB
 Motorola Fast SAR: SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.63 mW/g
 Maximum value of SAR (interpolated) = 2.62 mW/g

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

$dz=10$ mm
 Maximum value of SAR (measured) = 2.63 mW/g



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Date/Time: 5/5/2008 3:14:38 PM

Robot# / Run#: DASY4-FL-3/ JsT-SYSP-835H-080505-02
 Phantom# / Tissue Temp.: SAMTP1234 / 19.0 (C)
 Dipole Model# / Serial#: D835V2 / 435
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target: 9.56 mW/g (1g)
 Calculated: 8.80 mW/g (1g)
 Percent from Target (+/-): 7.9 % (1g)

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 53.5 V/m; Power Drift = -0.0169 dB
 Peak SAR (extrapolated) = 3.37 W/kg
 SAR(1 g) = 2.2 mW/g; SAR(10 g) = 1.42 mW/g
 Maximum value of SAR (measured) = 2.36 mW/g

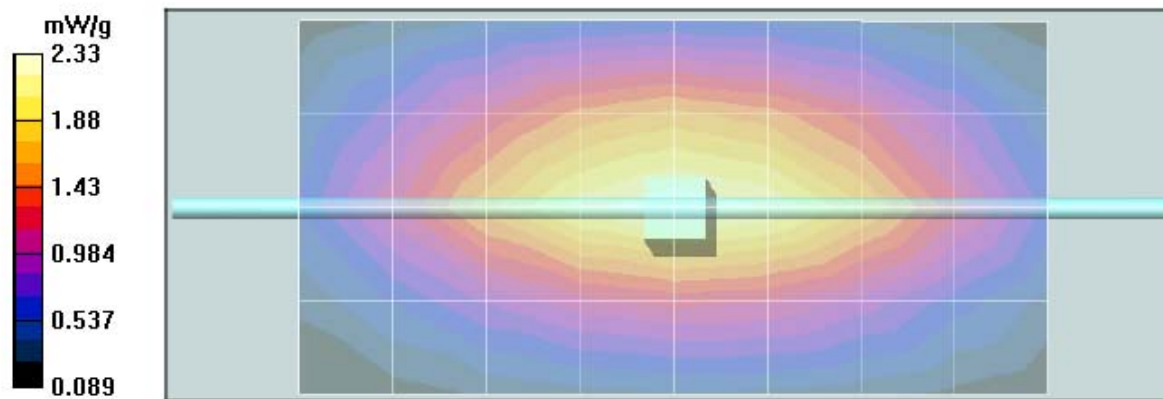
System Performance Check/90-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 53.5 V/m; Power Drift = -0.0169 dB
 Peak SAR (extrapolated) = 3.35 W/kg
 SAR(1 g) = 2.2 mW/g; SAR(10 g) = 1.42 mW/g

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

Maximum value of SAR (measured) = 2.33 mW/g

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



DIPOLE SAR TARGET - HEAD

Date: 08/02/07 Frequency (MHz): 835
 Lab Location: NE Mixture Type: IEEE Head
 DAE Serial #: 374 Ambient Temp.(°C): 19.9

Tissue Characteristics
 Permittivity: 40.7 Phantom Type/SN: 80302002D-S15
 Conductivity: 0.91 Distance (mm): 15
 Tissue Temp.(°C): 20.4

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 435

Target SAR Value: 9.5 mW/g (1g avg.), 6.2 mW/g (10g avg.)
 (normalized to 1.0 W)

New Target:

Average Measured SAR Value: 9.56 mW/g (1g avg.), 6.23 mW/g (10g avg.)

Percent Difference From Target (MUST be within k=2 Uncertainty): 0.66% (1g ave)
0.44% (10g ave)

Test performed by: J. Turco Initial: 

Probe SN #s	1-G Cube	Diff from Ave	10-G Cube	Diff from Ave	Robot
1384	9.69	1.33%	6.30	1.16%	R1
1393	9.82	2.69%	6.39	2.61%	R1
1547	9.44	-1.28%	6.13	-1.57%	R1
1383	9.30	-2.75%	6.09	-2.21%	R1
5	NA	#VALUE!	NA	#VALUE!	NA
Average	9.5625		6.2275		New Measured SAR Value
(normalized to 1.0 W, including drift)					

DIPOLE SAR TARGET - BODY

Date: 08/02/07 Frequency (MHz): 835
 Lab Location: NE Mixture Type: FCC Body
 DAE Serial #: 374 Ambient Temp.(°C): 19.9

Tissue Characteristics

Permittivity: 53.6 Phantom Type/SN: 80302002D-S15
 Conductivity: 1.00 Distance (mm): 15
 Tissue Temp.(°C): 20.1

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 435

New Target:

Average Measured SAR Value: 10.05 mW/g(1g avg.), 6.62 mW/g (10g avg.)

Test performed by: Mike Cieslar Initial: *mcsp*

Probe SN #s	1-G Cube	Diff from Ave	10-G Cube	Diff from Ave	Robot
1383	9.31	-7.3%	6.30	-4.8%	Rx
1384	10.55	5.0%	6.90	4.3%	Rx
1393	10.16	1.1%	6.65	0.5%	Rx
1547	10.16	1.1%	6.61	-0.1%	Rx
		-100.0%		-100.0%	Rx
Average	10.0450		6.6150		New Measured SAR Value
(normalized to 1.0 W, including drift)					

DIPOLE SAR TARGET - HEAD

Date: 12/28/07 Frequency (MHz): 2450
 Lab Location: NE Mixture Type: IEEE Head
 DAE Serial #: 401 Ambient Temp.(°C): 21.4

Tissue Characteristics
 Permittivity: 38.1 Phantom Type/SN: 40302002B-S12
 Conductivity: 1.85 Distance (mm): 10
 Tissue Temp.(°C): 21.3

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 704

Target SAR Value: 52.4 mW/g (1g avg.), 24.0 mW/g (10g avg.)
 (normalized to 1.0 W)

New Target:

Average Measured SAR Value: 54.77 mW/g (1g avg.), 24.98 mW/g (10g avg.)

Percent Difference From Target (MUST be within k=2 Uncertainty): 4.52% (1g ave)
4.07% (10g ave)

Test performed by: Ed Church Initial: ERC

Probe SN #s	1-G Cube	Diff from Ave	10-G Cube	Diff from Ave	Robot
1393	55.17	0.74%	25.14	0.65%	R3
1547	54.43	-0.61%	24.82	-0.63%	R3
1384	54.70	-0.12%	24.97	-0.03%	R3
		-100.00%		-100.00%	
		-100.00%		-100.00%	
Average	54.7667		24.9767	New Measured SAR Value	
(normalized to 1.0 W, including drift)					

DIPOLE SAR TARGET - BODY

Date: 12/28/07 Frequency (MHz): 2450
 Lab Location: NE Mixture Type: FCC Body
 DAE Serial #: 401 Ambient Temp.(°C): 21.3

Tissue Characteristics

Permittivity: 51.2 Phantom Type/SN: 40302002A-S11
 Conductivity: 2.00 Distance (mm): 10
 Tissue Temp.(°C): 20.3

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 704

New Target:

Average Measured SAR Value: 53.74 mW/g(1g avg.), 24.88 mW/g (10g avg.)

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

Probe SN #s	1-G Cube	Diff from Ave	10-G Cube	Diff from Ave	Robot
1384	53.56	-0.3%	24.58	-1.2%	R3
1547	54.39	1.2%	25.30	1.7%	R3
1393	53.28	-0.9%	24.76	-0.5%	R3
		-100.0%		-100.0%	
		-100.0%		-100.0%	
Average	53.7433		24.8800	New Measured SAR Value	
(normalized to 1.0 W, including drift)					

Appendix E
DUT Scans (Shortened Scans and Highest SAR configurations)

Shortened Scan Results

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Date/Time: 5/3/2008 1:39:13 PM

Robot# / Run#: DASY4-FL-3 / HvH-Ab-080503-16
Phantom# / Tissue Temp.: 80302002D-S15/ 20.5 (C)
DUT Model# / Serial#: H01XAN6JR6AN / NWF1339A / 364VJG32QL
Antenna / TX Freq.: 8585424F01 (Fixed) / 896.01875 (MHz)
Battery: SNN5840A w/ NTN2500MOTA
Carry Acc. / Cable Acc.: NNTN7313A / None
Start Power: 0.646 (W)

Comments: Shortened scan

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.16, 6.16, 6.16)
Electronics: DAE3 Sn374, Calibrated: 1/31/2008

Duty Cycle: 1:1.33, Medium parameters used: f = 899 MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Shortened scan reflect highest SAR producing configuration; Run time 8 minutes.

Representative "normal" scan run time was 19 minutes

"Shortened" scan max calculated SAR using SAR drift: 1-g Avg. = 1.26mW/g; 10-g Avg. = 0.92mW/g

"Normal" scan max calculated SAR using SAR drift: 1-g Avg. = 1.28mW/g; 10-g Avg. = 0.94mW/g

(See part 1 of 2 section 9.0 run # HvH-Ab-080503-06)

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

Reference Value = 36.0 V/m; Power Drift = -0.127 dB

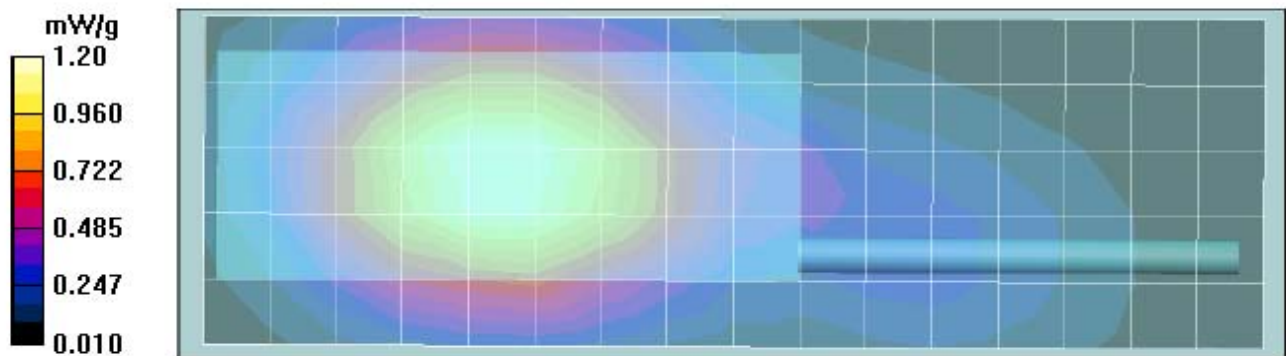
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.882 mW/g

Maximum value of SAR (measured) = 1.31 mW/g

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

Maximum value of SAR (measured) = 1.18 mW/g



Highest SAR Configurations Results

Motorola Government & Public Safety EME Laboratory

Date/Time: 5/3/2008 7:55:14 AM

Robot# / Run#: DASY4-FL-3 / HvH-Ab-080503-06
Phantom# / Tissue Temp.: 80302002D-S15/ 20.9 (C)
DUT Model# / Serial#: H01XAN6JR6AN / NWF1339A / 364VJG32QL
Antenna / TX Freq.: 8585424F01 (Fixed) / 896.01875 (MHz)
Battery: SNN5840A w/ NTN2500MOTA
Carry Acc. / Cable Acc.: NNTN7313A / None
Start Power: 0.643 (W)

Comments: Full Scan

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.16, 6.16, 6.16)

Electronics: DAE3 Sn374, Calibrated: 1/31/2008

Duty Cycle: 1:1.33, Medium parameters used: f = 899 MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

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

Reference Value = 28.6 V/m; Power Drift = -0.531 dB

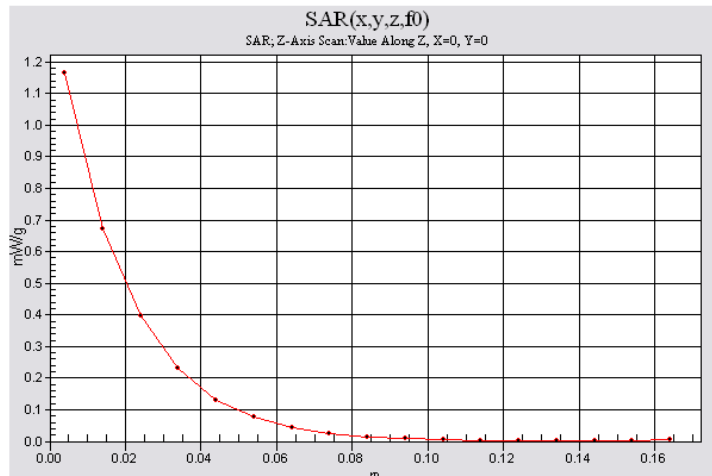
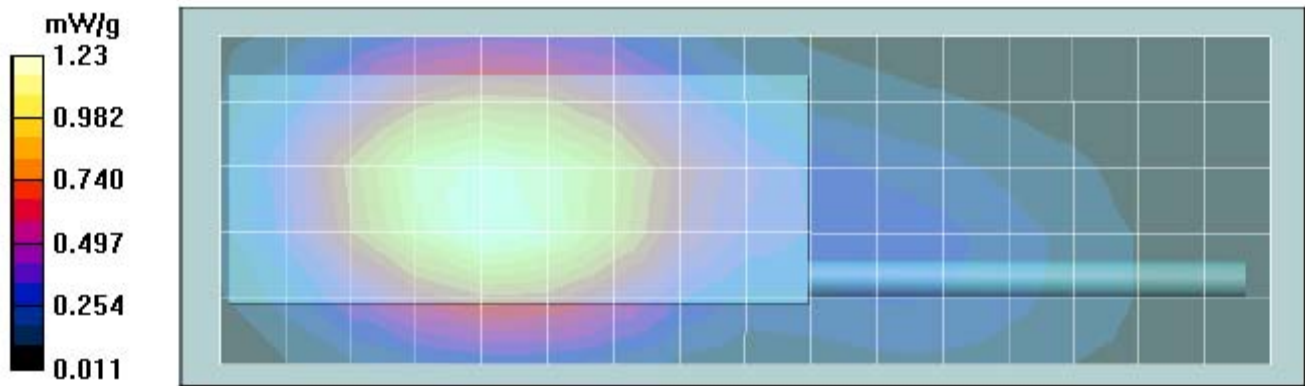
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.821 mW/g

Maximum value of SAR (measured) = 1.19 mW/g

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

Maximum value of SAR (measured) = 1.17 mW/g



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Date/Time: 4/30/2008 9:13:53 PM

Robot# / Run#: DASY4-FL- 3 / MeC-Lear-080430-05
Phantom# / Tissue Temp.: SAMTP1234/ 20.5 (C)
DUT Model# / Serial#: H01XAN6JR6AN / NWF1339A / 364VJG32QL
Antenna / TX Freq.: 8585424F01 (Fixed) / 896.01875 (MHz)
Battery: SNN5840A w/NTN2500MOTA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.635 (W)

Comments: Tilt, FULL SCAN

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)

Electronics: DAE3 Sn374, Calibrated: 1/31/2008

Duty Cycle: 1:3, Medium parameters used: f = 899 MHz; sigma = 0.98 mho/m; epsilon_r = 40.6; rho = 1000 kg/m^3

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

Reference Value = 20.9 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.731 mW/g

Maximum value of SAR (measured) = 1.16 mW/g

Left Ear-15D Tilt position/Area Scan (51x181x1): Measurement grid: dx=15mm, dy=15mm

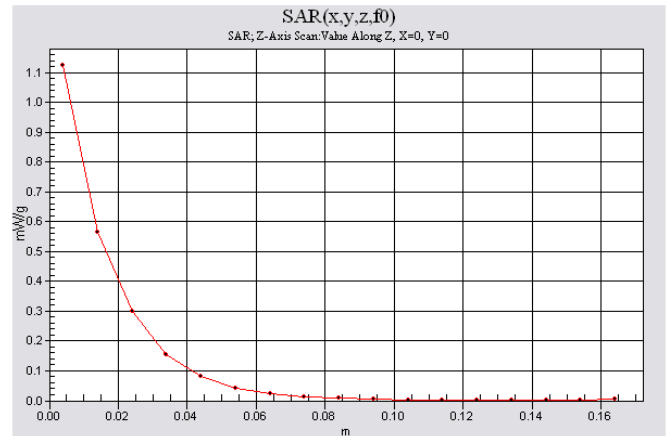
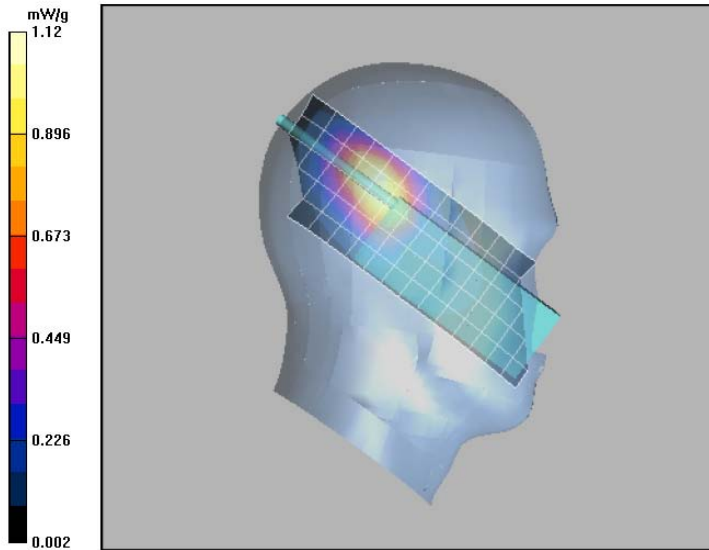
Reference Value = 20.9 V/m; Power Drift = -0.025 dB

Motorola Fast SAR: SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.730 mW/g

Maximum value of SAR (interpolated) = 1.14 mW/g

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

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



Motorola Government & Public Safety EME Laboratory

Date/Time: 5/1/2008 7:04:25 PM

Robot# / Run#: DASY4-FL-3 / MeC-Face-080501-16
 Phantom# / Tissue Temp.: SAMTP1234/ 20.5 (C)
 DUT Model# / Serial#: H01XAN6JR6AN / NWF1339A / 364VJG2ZWB
 Antenna / TX Freq.: 8585424F01 (Fixed) / 902.5250 (MHz)
 Battery: SNN5840A w/ NTN2500MOTA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.845 (W)

Comments: FULL SCAN

Probe: ET3DV6 - SN1383, Calibrated: 1/28/2008, ConvF(6.54, 6.54, 6.54)
 Electronics: DAE3 Sn374, Calibrated: 1/31/2008
 Duty Cycle: 1:1.05, Medium parameters used: $f = 915 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

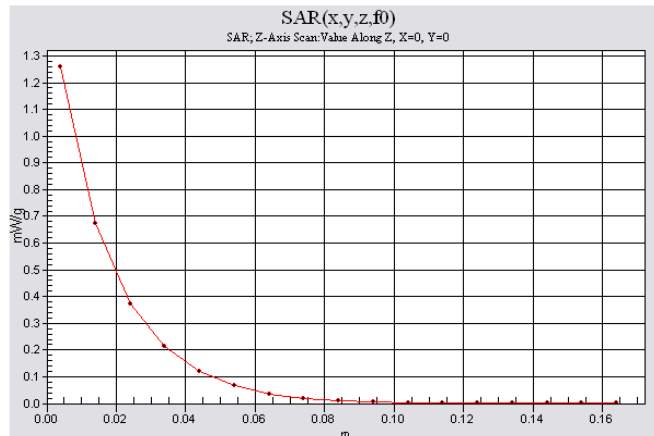
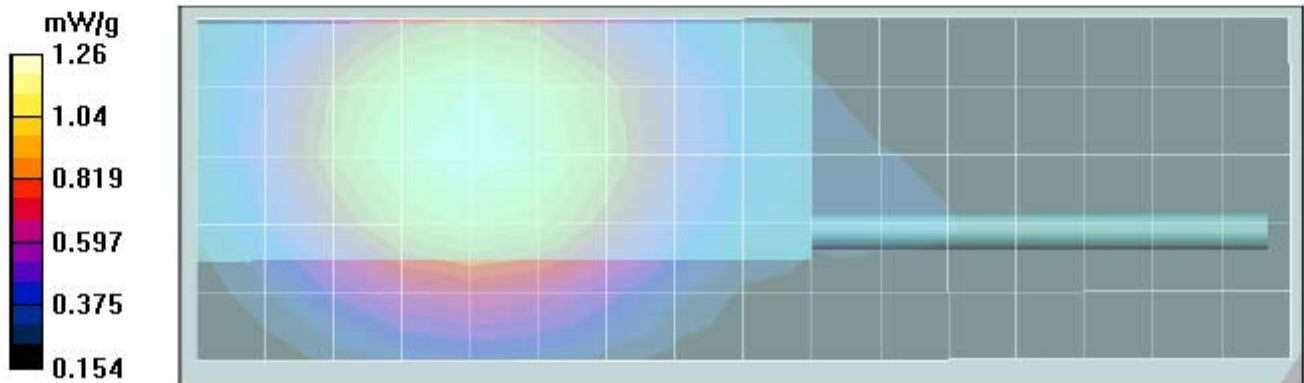
Face Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.1 V/m; Power Drift = -0.195 dB
 Peak SAR (extrapolated) = 1.62 W/kg
 SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.855 mW/g
 Maximum value of SAR (measured) = 1.26 mW/g

Face Scan/Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 33.1 V/m; Power Drift = -0.195 dB
 Motorola Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.864 mW/g
 Maximum value of SAR (interpolated) = 1.28 mW/g

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



Appendix F DUT Supplementary Data (Power slump)

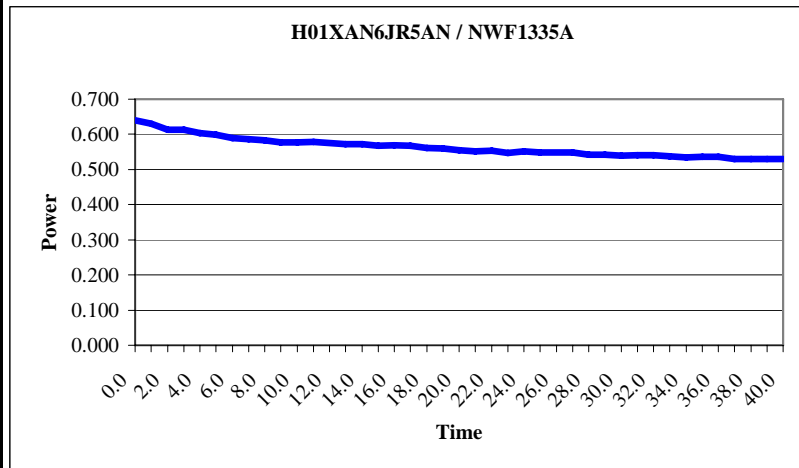
Model # H01XAN6JR6AN / NWF1339A

Serial # 364VJG32QL

Battery: SNN5840A
Frequency: 896.01875
Date: 5/3/2008

Transmit Mode: WiDen
Audio Accessory: None

TX TIME (Minutes)	Measured Power (Watts)
0.0	0.640
1.0	0.631
2.0	0.613
3.0	0.614
4.0	0.604
5.0	0.599
6.0	0.590
7.0	0.587
8.0	0.584
9.0	0.577
10.0	0.577
11.0	0.579
12.0	0.576
13.0	0.573
14.0	0.573
15.0	0.568
16.0	0.569
17.0	0.568
18.0	0.561
19.0	0.560
20.0	0.555
21.0	0.552
22.0	0.553
23.0	0.547
24.0	0.552
25.0	0.548
26.0	0.549
27.0	0.548
28.0	0.543
29.0	0.543
30.0	0.539
31.0	0.540
32.0	0.541
33.0	0.538
34.0	0.535
35.0	0.536
36.0	0.536
37.0	0.530
38.0	0.530
39.0	0.530
40.0	0.530



Appendix G
DUT Test Position Photos

Photos available in Exhibit 7B - Temporary Confidentiality Requested

Appendix H
DUT and Body worn Accessory Photos

Photos available in Exhibit 7B - Temporary Confidentiality Requested

Appendix I

DUT Antenna Separation Distances and Offered Accessory Test Status

The following table(s) summarizes the separation distances and test status provided by each of the applicable body-worn accessory(ies):

Battery Model	Tested ?	Min. Separation distances between DUT antenna and phantom surface. (mm)	Comments
SNN5840A	Yes	NA	NA
NTN2500MOTA	Yes	NA	Battery cover

Carry Case Models	Tested ?	Min. Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN7313A	Yes	29-47	NA
NNTN4747A	Yes	20-28	NA

Audio Acc. Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN5005B	Yes	NA	NA
NNTN5006B	Yes	NA	NA
NNTN5330B	Yes	NA	NA
NNTN5211B	Yes	NA	NA
NNTN6312A	Yes	NA	NA

Data cable Models	Tested ?	Separation distances between DUT antenna and phantom surface. (mm)	Comments
NNTN5005B	Yes	NA	NA
NNTN5006B	Yes	NA	NA