



MOTOROLA



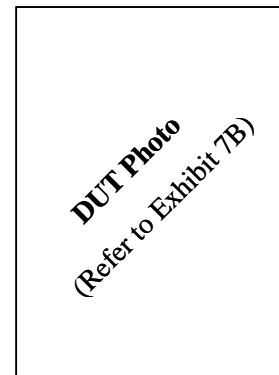
TESTING CERT # 2518.01

**FCC ID: IHDT56JQ1
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: 10/8/08
Report Revision: A
Report ID: i9_SR6744_081008

Responsible Engineer: K. Uong (Principal Staff EME Eng.)
Report Author: K. Uong (Principal Staff EME Eng.)
Date/s Tested: 9/12/08 - 9/18/08
Manufacturer/Location: Motorola, China
Sector/Group/Div.: iDEN Subscriber
Date submitted for test: 9/8/08
DUT Description: TDMA: 81:120, 1:3, 1:12, and 1:6; 64 QAM, 16QAM, and QPSK Modulations; 0.60W Pulse Avg; MOTOTalk: 114:120 8FSK; 0.85 W nominal; (GPS and Bluetooth Capable).
Test TX mode(s): iDEN: 1:6, 1:3, 81:120; MOTOTalk: 114:120
Max. Power output: 0.640W pulsed average (iDEN); 0.891W (MOTOTalk); 2.5mW (Bluetooth)
Nominal Power: 0.6W Pulse Average Conducted Power (iDEN); 0.85W (MOTOTalk); 1mW (Bluetooth)
Tx Frequency Bands: 806-825, 896-902MHz (iDEN); 902-928MHz (MOTOTalk); 2.402-2.480GHz (Bluetooth)
Signaling type: iDEN: 1:6, 1:3, 81:120; MOTOTalk: 114:120; BT:FHSS
Model(s) Tested: H07XAN6JR7AN
Model(s) Certified: H07XAN6JR7AN
Serial Number(s): 364VJQ5Z3M, 364VJQ6T8D
Classification: General Population/Uncontrolled Environment
Rule Part(s): 15 and 90



Approved Accessories:

Antenna(s):

0105952U32 (IFA, 806-928MHz, 1/4 wave, -0.336 to 0.108 dBd gain)
Bluetooth (Printed IFA, 2.4-2.48GHz, 1/4 wave, 3.972dBd gain)

Battery(ies):

SNN5807A (BX50 High performance battery); SNN5809A (BX80 Max cap performance battery); NTN2487XXXA (High performance battery door); NTN2508XXXA (Max cap performance battery door).

Body worn accessory(ies):

SYN2992A (Holster)

Audio/Data cable accessory(ies):

SYN1458A (Stereo Headset); SYN1472A (Mono Headset); SKN6238A (LONG WELL USB cable)

Max. Calc. : 1-g Avg. SAR: 1.07 W/kg (Body); 10-g Avg. SAR: 0.76 W/kg (Body)
Max. Calc. : 1-g Avg. SAR: 0.33 W/kg (Face); 10-g Avg. SAR: 0.24 W/kg (Face)
Max. Calc. : 1-g Avg. SAR: 0.61 W/kg (Head); 10-g Avg. SAR: 0.32 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: 10/08/08

Certification Date: 10/08/08

Certification No.: L1081002P

Appendix C
Dipole Calibration Certificates

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

Accreditation No.: **SCS 108**

Client **Motorola CGISS**

Certificate No: **D900V2-084_Mar08**

CALIBRATION CERTIFICATE

Object	D900V2 - SN: 084		
Calibration procedure(s)	QA CAL-05.v7 Calibration procedure for dipole validation kits		
Calibration date:	March 17, 2008		
Condition of the calibrated item	In Tolerance		
<p>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.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p>			
Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-07 (METAS, No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (METAS, No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (METAS, No 217-00718)	Aug-08
Reference Probe ES3DV2	SN: 3025	01-Mar-08 (SPEAG, No. ES3-3025_Mar08)	Mar-09
DAE4	SN 909	03-Sep-07 (SPEAG, No. DAE4-909_Sep07)	Sep-08
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08
Calibrated by:	Name Claudio Leubler	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: March 17, 2008
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
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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) 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
- 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	900 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	0.97 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	0.96 mho/m ± 6 %
Head TSL temperature during test	(22.0 ± 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	2.66 mW / g
SAR normalized	normalized to 1W	10.6 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	10.6 mW /g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.72 mW / g
SAR normalized	normalized to 1W	6.88 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	6.84 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	50.2 Ω - 6.1 $j\Omega$
Return Loss	- 24.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.391 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

DASY4 Validation Report for Head TSL

Date/Time: 17.03.2008 12:36:48

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:084

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL 900 MHz;

Medium parameters used: $f = 900$ MHz; $\sigma = 0.961$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(5.94, 5.94, 5.94); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn909; Calibrated: 03.09.2007
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

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

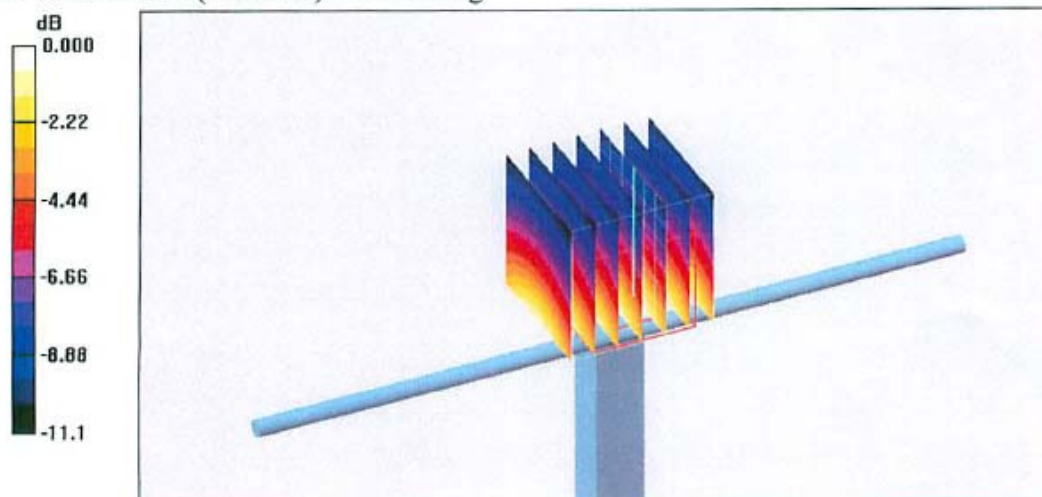
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.2 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 3.94 W/kg

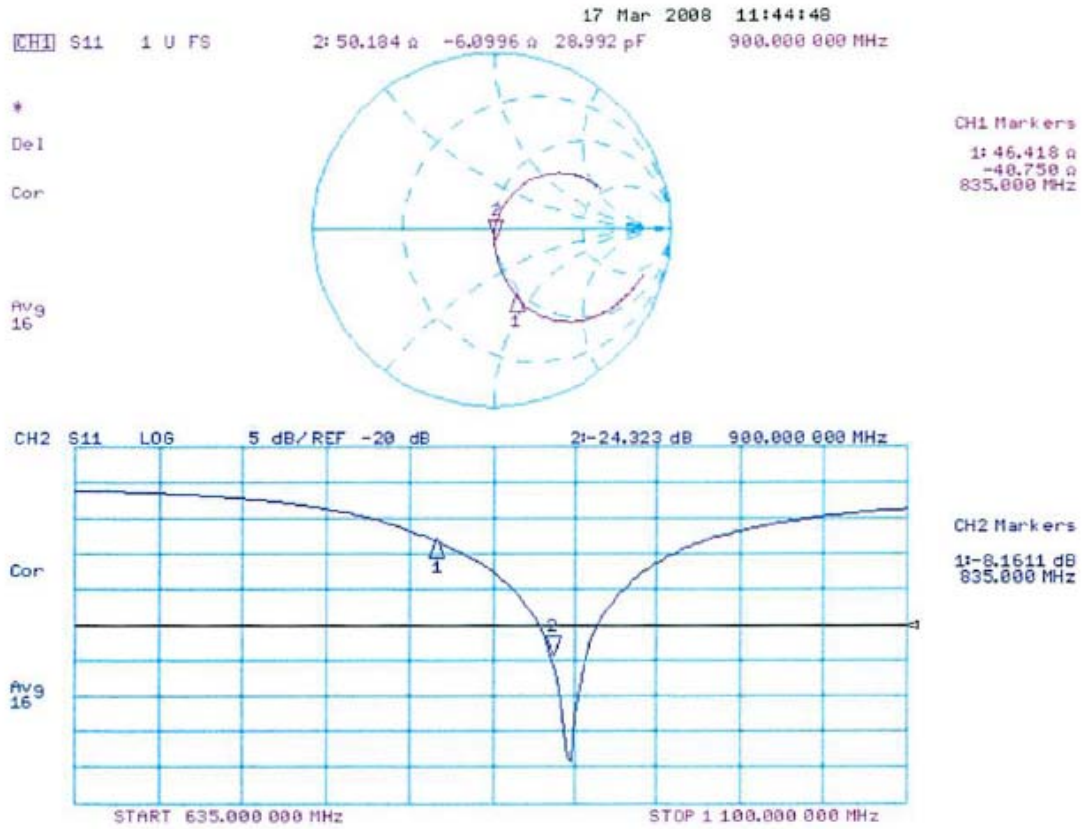
SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.72 mW/g

Maximum value of SAR (measured) = 3.02 mW/g



0 dB = 3.02mW/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 were assessed using multiple probes and the results averaged together to determine the new SAR target.

Isotropic assessments were conducted using the "Rotation (1D)" function in the DASYS software to verify the isotropy error tolerance of +/- 0.5dB.

Motorola Government & Public Safety EME Laboratory

Date/Time: 9/12/2008 7:37:16 AM

Robot# / Run#: DASY4-FL-1 / ErC-SYSP-900B-080912-01
 Phantom# / Tissue Temp.: OVAL1021 / 19.9 (C)
 Dipole Model# / Serial#: D900V2 / 084
 TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.75 mW/g (1g)
 Calculated: 11.40 mW/g (1g)
 Percent from Target (+/-): 3.0 % (1g)
 Rotation (1D): 0.06 dB

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

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

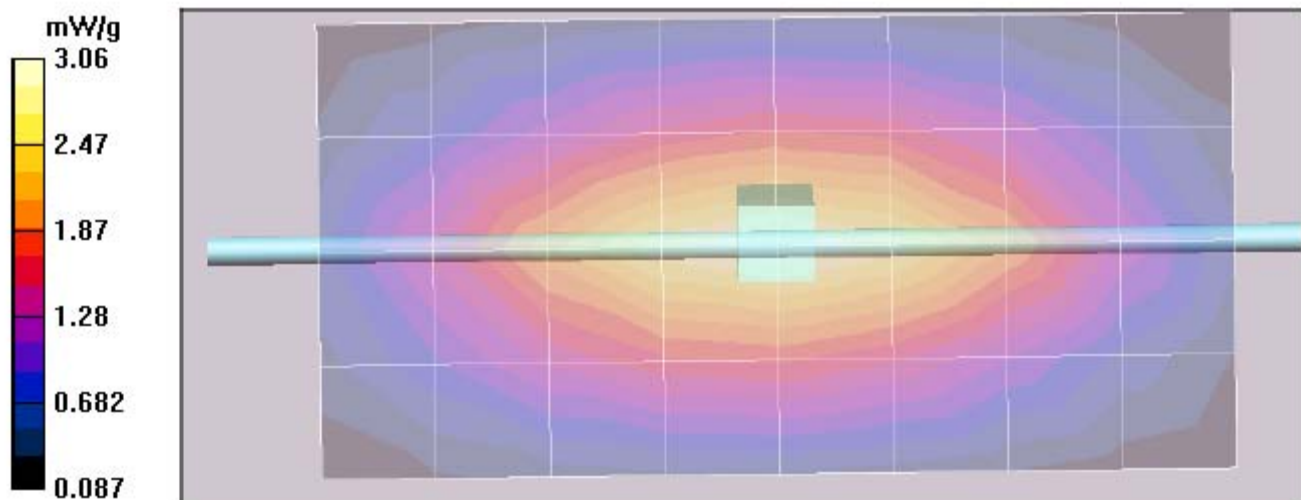
$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 56.2 V/m; Power Drift = -0.0329 dB
 Peak SAR (extrapolated) = 4.11 W/kg
 SAR(1 g) = 2.85 mW/g; SAR(10 g) = 1.84 mW/g
 Maximum value of SAR (measured) = 3.11 mW/g

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

Maximum value of SAR (measured) = 3.06 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) = 3.10 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 9/15/2008 9:35:08 AM

Robot# / Run#: DASY4-FL-1 / JsT-SYSP-900H-080915-01
 Phantom# / Tissue Temp.: SAMTP1234 / 19.2 (C)
 Dipole Model# / Serial#: D900V2 / 084
 TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.27 mW/g (1g)
 Calculated: 11.36 mW/g (1g)
 Percent from Target (+/-): 0.8 % (1g)
 Rotation (1D): 0.064 dB

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 59.3 V/m; Power Drift = 0.0129 dB

Peak SAR (extrapolated) = 4.10 W/kg

SAR(1 g) = 2.84 mW/g; SAR(10 g) = 1.83 mW/g

Maximum value of SAR (measured) = 3.09 mW/g

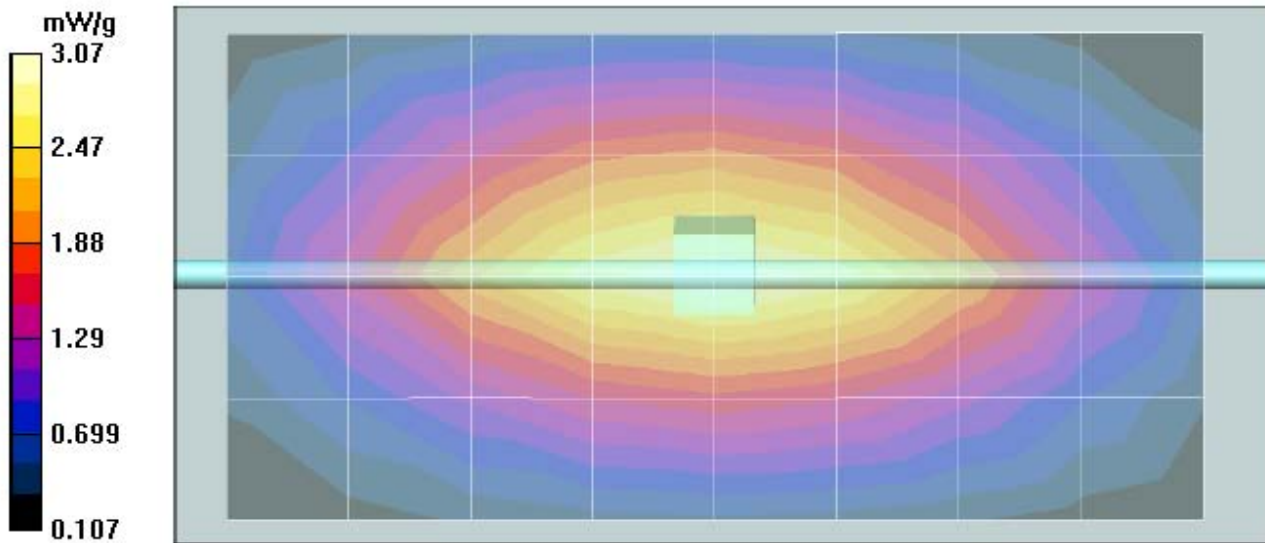
System Performance Check/Dipole Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.07 mW/g

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

dz=10mm

Maximum value of SAR (measured) = 3.10 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 9/16/2008 6:35:27 AM

Robot# / Run#: DASY4-FL-1 / JsT-SYSP-900H-080916-01
 Phantom# / Tissue Temp.: SAMTP1234 / 19.0 (C)
 Dipole Model# / Serial#: D900V2 / 084
 TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.27 mW/g (1g)
 Calculated: 11.60 mW/g (1g)
 Percent from Target (+/-): 2.9 % (1g)
 Rotation (1D): 0.062 dB

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

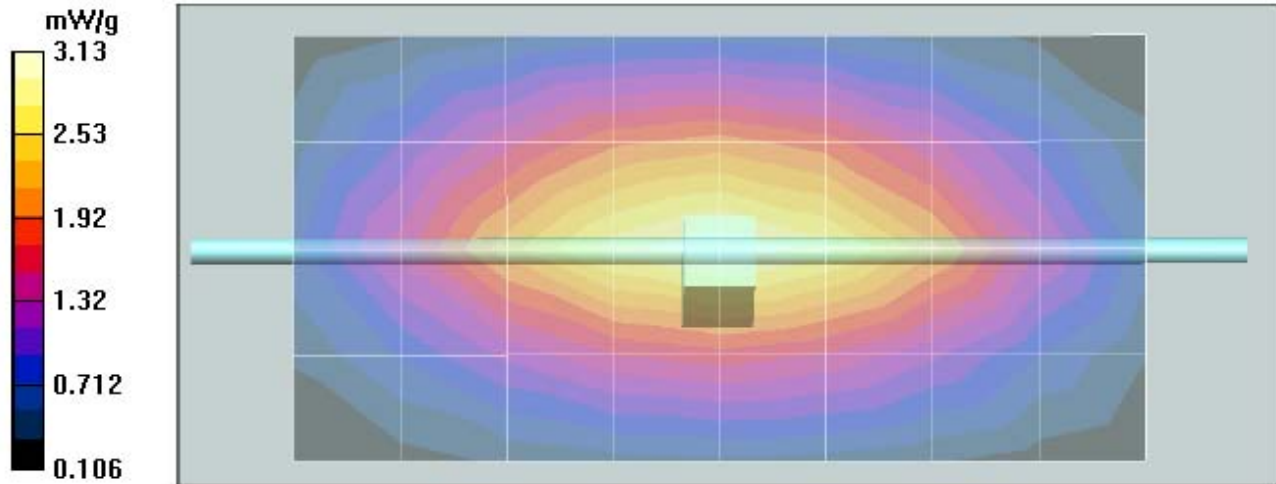
System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 59.5 V/m; Power Drift = 0.0227 dB
 Peak SAR (extrapolated) = 4.20 W/kg
 SAR(1 g) = 2.9 mW/g; SAR(10 g) = 1.87 mW/g
 Maximum value of SAR (measured) = 3.16 mW/g

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

Maximum value of SAR (measured) = 3.13 mW/g

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



Motorola Government & Public Safety EME Laboratory
 Date/Time: 9/17/2008 6:33:32 AM

Robot# / Run#: DASY4-FL-1 / JsT-SYSP-900B-080917-01
 Phantom# / Tissue Temp.: 80302002D-S15 / 19.1 (C)
 Dipole Model# / Serial#: D900V2 / 084
 TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.75 mW/g (1g)
 Calculated: 11.92 mW/g (1g)
 Percent from Target (+/-): 1.4 % (1g)
 Rotation (1D): 0.076 dB

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

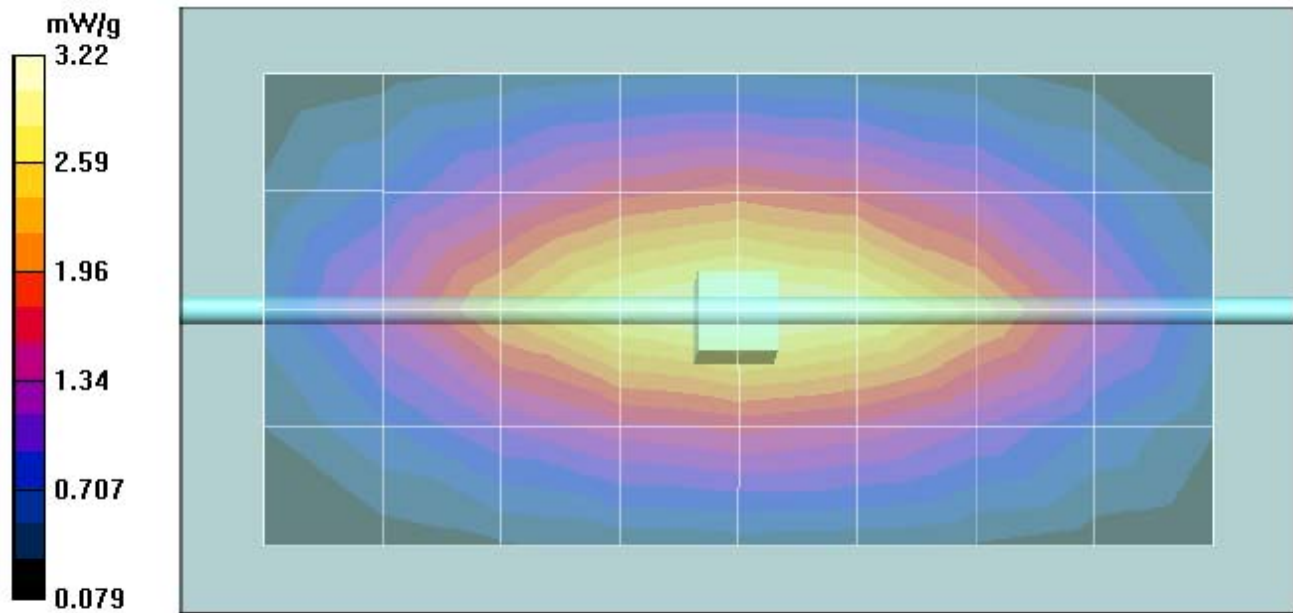
System Performance Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 57.4 V/m; Power Drift = -0.0405 dB
 Peak SAR (extrapolated) = 4.31 W/kg
 SAR(1 g) = 2.98 mW/g; SAR(10 g) = 1.92 mW/g
 Maximum value of SAR (measured) = 3.23 mW/g

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

Maximum value of SAR (measured) = 3.22 mW/g

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



Motorola Government & Public Safety EME Laboratory

Date/Time: 9/18/2008 6:50:49 AM

Robot# / Run#: DASY4-FL-1 / JsT-SYSP-900H-080918-01
 Phantom# / Tissue Temp.: SAMTP1234 / 19.8 (C)
 Dipole Model# / Serial#: D900V2 / 084
 TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.27 mW/g (1g)
 Calculated: 11.44 mW/g (1g)
 Percent from Target (+/-): 1.5 % (1g)
 Rotation (1D): 0.06 dB

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1, Medium parameters used: $f = 900$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

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

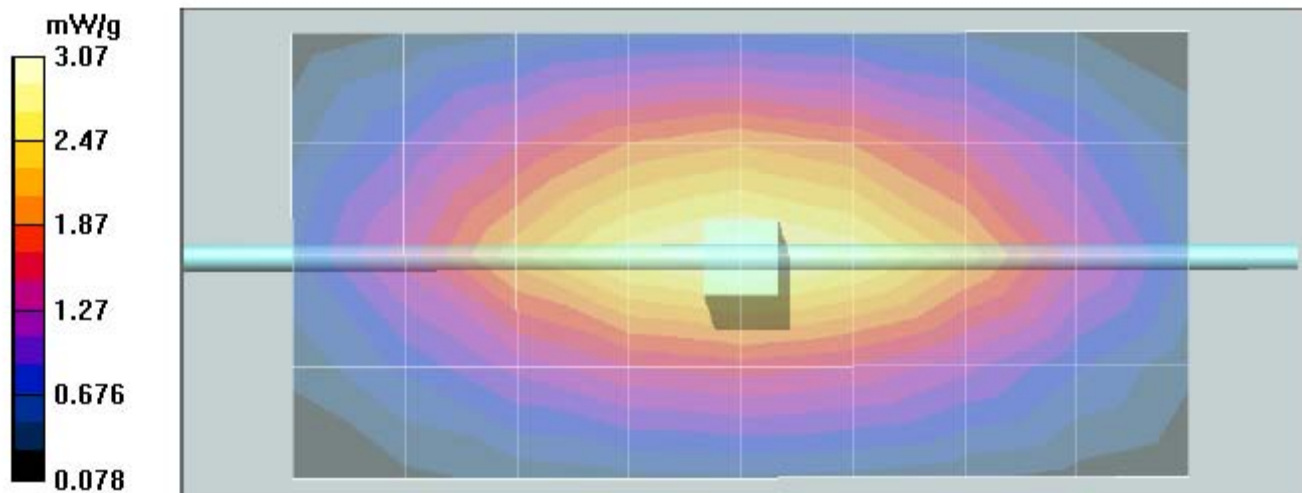
$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 59.0 V/m; Power Drift = 0.00734 dB
 Peak SAR (extrapolated) = 4.11 W/kg
 SAR(1 g) = 2.86 mW/g; SAR(10 g) = 1.85 mW/g
 Maximum value of SAR (measured) = 3.11 mW/g

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

Maximum value of SAR (measured) = 3.07 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) = 3.12 mW/g



DIPOLE SAR TARGET - HEAD

Date: 03/28/08 Frequency (MHz): 900
 Lab Location: (FL08/PG)-G&PS Mixture Type: IEEE Head
 DAE Serial #: 374 Ambient Temp.(°C): 21.8

Tissue Characteristics
 Permittivity: 42.6 Phantom Type/SN: 80302002C-S9
 Conductivity: 1.01 Distance (mm): 15
 Tissue Temp.(°C): 20.1

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 84

Target SAR Value: 10.8 mW/g (1g avg.),
 (normalized to 1.0 W) Difference from Target
4.32% (1g avg.)

New Target:

Average Measured SAR Value: 11.27 mW/g (1g avg.),

Passes K=2

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

Probe SN #s	1-G Cube	Diff from Ave	Robot
1383	11.52	#DIV/0!	R3
1393	11.32	#DIV/0!	R3
1547	10.96	#DIV/0!	R3
		#DIV/0!	
		#DIV/0!	
Average	11.2667	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Gene Von Holten Initial: HvH

DIPOLE SAR TARGET - BODY

Date: 03/28/08 Frequency (MHz): 900
 Lab Location: (FL08/PG)-G&PS Mixture Type: FCC Body
 DAE Serial #: 374 Ambient Temp.(°C): 22.1

Tissue Characteristics

Permittivity: 53.1 Phantom Type/SN: 80302002D-S15
 Conductivity: 1.05 Distance (mm): 15
 Tissue Temp.(°C): 20.2

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 84

New Target:

Average Measured SAR Value: 11.75 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
1547	11.64	-1.0%	R3
1393	11.70	-0.5%	R3
1383	11.92	1.4%	R3
		-100.0%	
		-100.0%	
Average	11.7533	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Gene Von Holten Initial: HvH

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

Shortened Scan Results
Motorola Government & Public Safety EME Laboratory
 Date/Time: 9/18/2008 3:36:43 PM

Robot# / Run#: DASY4-FL-1 / JsT-Ab-080918-13
 Phantom# / Tissue Temp.: 80302002D-S15 / 18.1 (C)
 DUT Model# / Serial#: H07XAN6JR7AN / 364VJQ6T8D
 Antenna / TX Freq.: Internal / 815.5125 (MHz)
 Battery: SNN5807A w/ NTN2487XXXXA
 Carry Acc. / Cable Acc.: SYN2992A / None
 Start Power: 0.668 (W)

Comment:

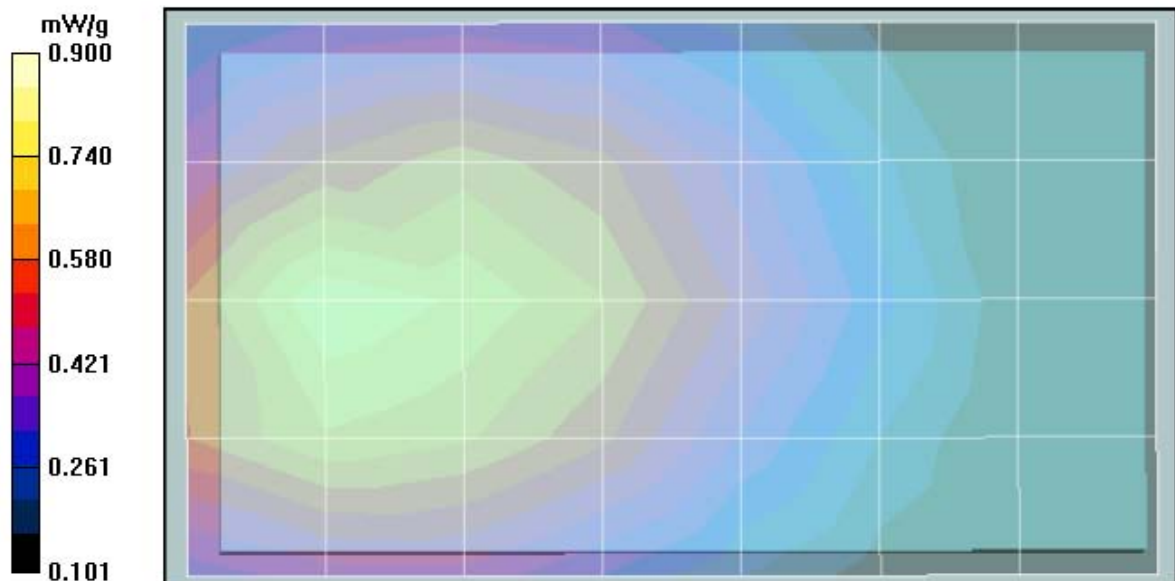
Shortened scan reflect highest SAR producing configuration; Run time 7 minutes.
 Representative zoom scan run time was 17 minutes
 “Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 1.07 mW/g; 10-g Avg. = 0.76 mW/g
 Zoom scan max calculated SAR using SAR drift: 1-g Avg. = 0.78 mW/g; 10-g Avg. = 0.60 mW/g
 (see part 1 of 2 section 9.0 run # JsT-Ab-080917-07)

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008
 Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 30.8 V/m; Power Drift = -1.09 dB
 Peak SAR (extrapolated) = 1.11 W/kg
 SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.594 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube.
 This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
 Maximum value of SAR (measured) = 0.892 mW/g

Ab Scan/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.788 mW/g



Highest SAR Configurations Results
Motorola Government & Public Safety EME Laboratory
 Date/Time: 9/17/2008 9:21:17 AM

Robot# / Run#: DASY4-FL-1 / JsT-Ab-080917-07
 Phantom# / Tissue Temp.: 80302002D-S15 / 19.6 (C)
 DUT Model# / Serial#: H07XAN6JR7AN / 364VJQ6T8D
 Antenna / TX Freq.: Internal / 815.5125 (MHz)
 Battery: SNN5807A w/ NTN2487XXXA
 Carry Acc. / Cable Acc.: SYN2992A / None
 Start Power: 0.662 (W)

Comments: Full Scan

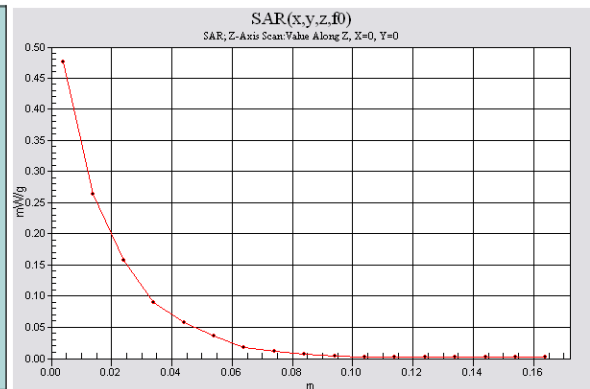
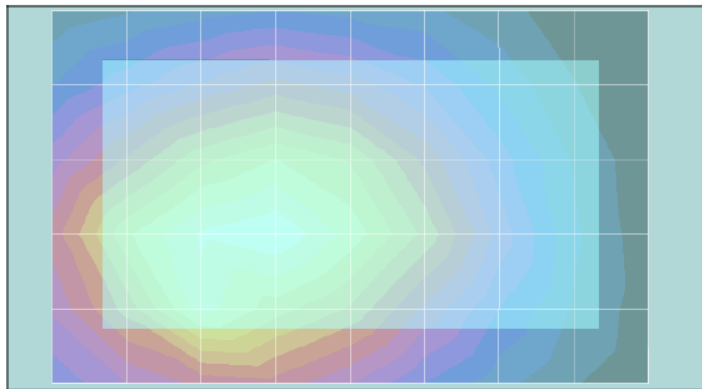
Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(5.86, 5.86, 5.86)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1.5, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 29.9 V/m; Power Drift = -2.64 dB
 Peak SAR (extrapolated) = 0.562 W/kg
 SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.324 mW/g
 Maximum value of SAR (measured) = 0.460 mW/g

Ab Scan/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 29.9 V/m; Power Drift = -2.64 dB
 Motorola Fast SAR: SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.448 mW/g
 Maximum value of SAR (interpolated) = 0.674 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.476 mW/g



Motorola Government & Public Safety EME Laboratory
Date/Time: 9/16/2008 10:37:34 AM

Robot# / Run#: DASY4-FL-1 / JsT-Rear-080916-05
Phantom# / Tissue Temp.: SAMTP1234 / 19.0 (C)
DUT Model# / Serial#: H07XAN6JR7AN / 364VJQ6T8D
Antenna / TX Freq.: Internal / 824.9875 (MHz)
Battery: SNN5807A w/ NTN2487XXXXA
Carry Acc. / Cable Acc.: None / None
Start Power: 0.624 (W)

Comments: Full Scan; Touch

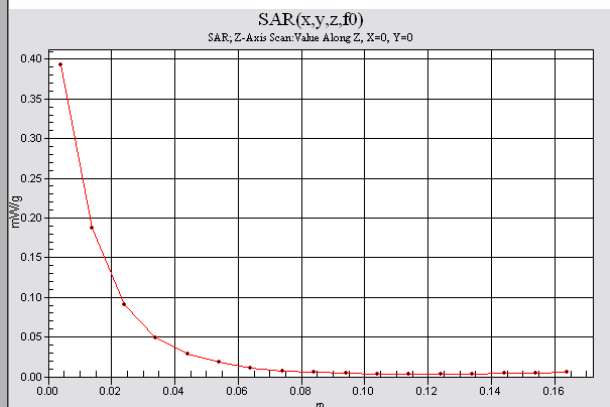
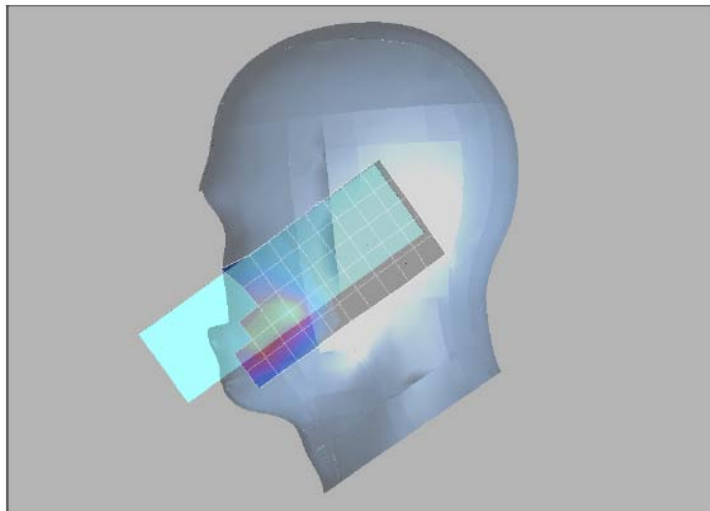
Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:3, Medium parameters used: $f = 815.5$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.9 V/m; Power Drift = -0.689 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.524 mW/g

Right Ear-Touch Position/Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 15.9 V/m; Power Drift = -0.689 dB
Motorola Fast SAR: SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.294 mW/g
Maximum value of SAR (interpolated) = 0.566 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.393 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 9/16/2008 12:21:24 PM

Robot# / Run#: DASY4-FL-1 / JsT-Rear-080916-07
 Phantom# / Tissue Temp.: SAMTP1234 / 18.7 (C)
 DUT Model# / Serial#: H07XAN6JR7AN / 364VJQ5Z3M
 Antenna / TX Freq.: Internal / 901.98125 (MHz)
 Battery: SNN5809A w/NTN2508XXXXA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.642 (W)

Comments: Full Scan; Touch

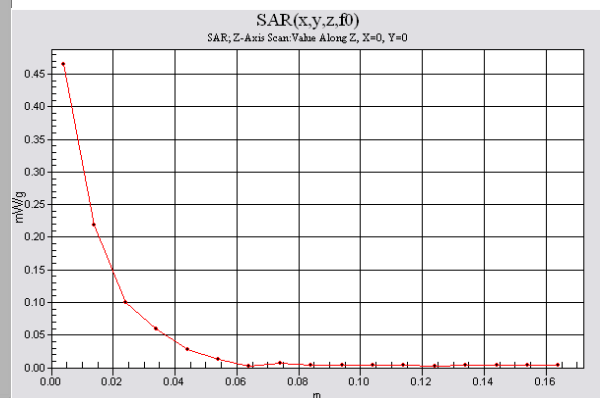
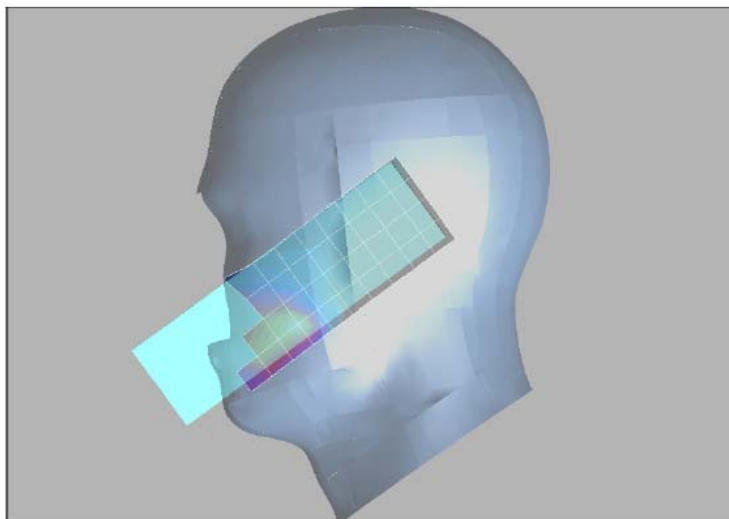
Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Right Ear-Touch Position/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 15.7 V/m; Power Drift = -0.353 dB
 Peak SAR (extrapolated) = 1.27 W/kg
 SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.296 mW/g
 Maximum value of SAR (measured) = 0.527 mW/g

Right Ear-Touch Position/Area Scan (41x131x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 15.7 V/m; Power Drift = -0.353 dB
 Motorola Fast SAR: SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.329 mW/g
 Maximum value of SAR (interpolated) = 0.630 mW/g

Right Ear-Touch Position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.465 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 9/18/2008 8:56:54 AM

Robot# / Run#: DASY4-FL-1 / JsT-Face-080918-03
 Phantom# / Tissue Temp.: SAMTP1234 / 19.4 (C)
 DUT Model# / Serial#: H07XAN6JR7AN / 364VJQ5Z3M
 Antenna / TX Freq.: Internal / 902.5250 (MHz)
 Battery: SNN5807A w/NTN2487XXXXA
 Carry Acc. / Cable Acc.: None / None
 Start Power: 0.905 (W)

Comments: Shortened Scan; Flip Closed and tested with 2 cooling fans pointed @ DUT.

Probe: ET3DV6 - SN1384, Calibrated: 5/19/2008, ConvF(6, 6, 6)
 Electronics: DAE3 Sn363, Calibrated: 4/22/2008

Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

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

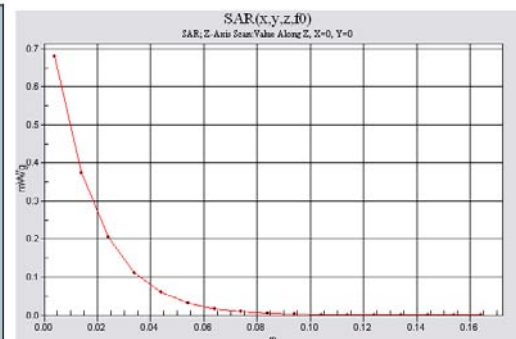
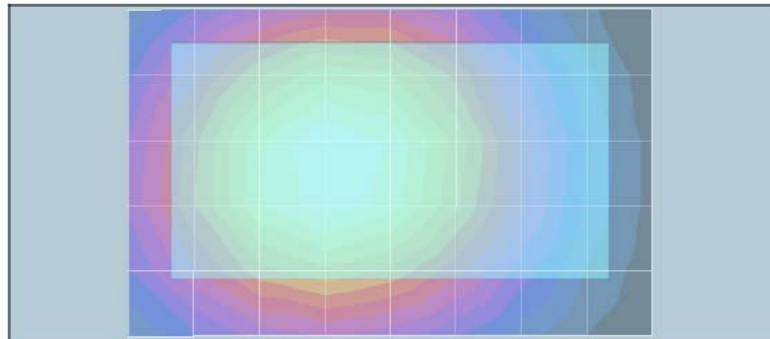
Reference Value = 28.0 V/m; Power Drift = -0.00104 dB
 Peak SAR (extrapolated) = 0.833 W/kg
 SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.476 mW/g
 Maximum value of SAR (measured) = 0.697 mW/g

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

Reference Value = 25.9 V/m; Power Drift = -0.0466 dB
 Motorola Fast SAR: SAR(1 g) = 0.647 mW/g; SAR(10 g) = 0.459 mW/g
 Maximum value of SAR (interpolated) = 0.682 mW/g

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

Maximum value of SAR (measured) = 0.680 mW/g

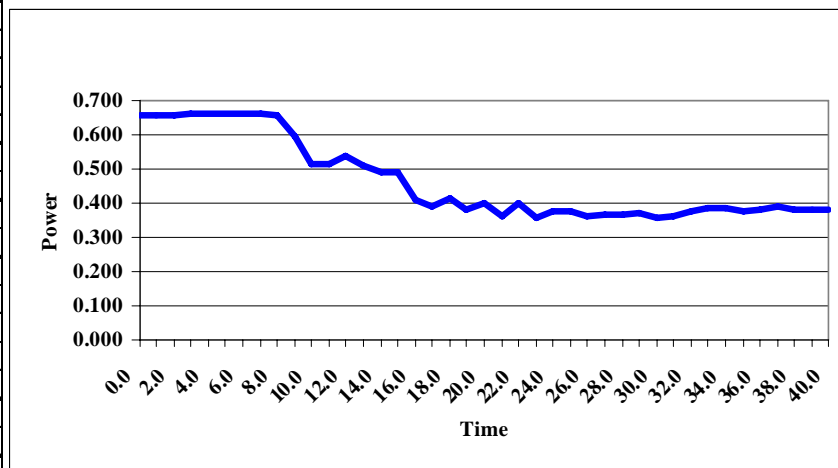


APPENDIX F DUT Supplementary Data (Power slump)

Model # H07XAN6JR7AN
Serial # 364VJQ6T8D

Battery	#SNN5807A	Transmit Mode	Data (81:120)
Frequency	815.5125 MHz	Audio Accessory	None
Date	9/16/2008		

TX TIME (Minutes)	Measured Power (Watts)
0.0	0.656
1.0	0.658
2.0	0.658
3.0	0.663
4.0	0.661
5.0	0.663
6.0	0.664
7.0	0.663
8.0	0.658
9.0	0.596
10.0	0.514
11.0	0.515
12.0	0.538
13.0	0.509
14.0	0.493
15.0	0.490
16.0	0.410
17.0	0.392
18.0	0.416
19.0	0.380
20.0	0.403
21.0	0.362
22.0	0.400
23.0	0.360
24.0	0.376
25.0	0.379
26.0	0.364
27.0	0.367
28.0	0.366
29.0	0.371
30.0	0.359
31.0	0.365
32.0	0.377
33.0	0.385
34.0	0.388
35.0	0.378
36.0	0.380
37.0	0.393
38.0	0.384
39.0	0.381
40.0	0.380



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):

Kit #	Tested ?	Min. Separation distances between DUT antenna and phantom surface. (mm)	Comments
Batteries and battery's back cover			
SNN5807A	Yes	NA	Tested w/ NTN2487XXXXA
SNN5809A	Yes	NA	Tested w/ NTN2508XXXXA
NTN2487XXXXA	Yes	NA	Tested w/ SNN5807A
NTN2508XXXXA	Yes	NA	Tested w/ SNN5809A
0105952U32	Yes	NA	
Printed IFA	NA	NA	Bluetooth
Carry case			
SYN2992A	Yes	16-21	Separation distance of the bottom and top of DUT
Audio/Data Cables			
SYN1458A	Yes	NA	
SYN1472A	Yes	NA	
SKN6238A	Yes	NA	