

 MOTOROLA	 TESTING CERT # 2518.01
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FCC ID: AZ489FT5844
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: 12/18/07 Report Revision: A Report ID: PCII rpt_i570 Rev A_071218_SR5870
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<p>Responsible Engineer: Kim Uong (Principle Staff Engineer) Date/s Tested: 11/26/07-11/29/07, 12/07/07 Manufacturer/Location: Outsource Sector/Group/Div.: iDEN Subscriber Date submitted for test: 11/14/2007 DUT Description: TDMA: 236:310 WiDEN (76.1%), 81:120, 2:6, 1:12, and 1:6; 64 QAM, 16QAM, and QPSK Modulations; 0.6 W Pulse Avg; MOTOtalk: 114:120 8FSK; 0.85 W nominal; (GPS Capable). Test TX mode(s): 1:3, 1:6, 114:120, 236:310 Max. Power output: 0.64 W Pulse Average Conducted Power (iDEN); 0.891 W (MOTOtalk) Nominal Power: 0.6 W Pulse Average Conducted Power (iDEN); 0.85 W (MOTOtalk) Tx Frequency Bands: 806-825, 896-902 MHz (iDEN); 902-928 MHz (MOTOtalk) Signaling type: TDMA: iDEN; WiDEN, MOTOtalk - (FHSS 8FSK) Model(s) Tested: H65XAN6RR4CN / NWF1309A00 Model(s) Certified: H65XAN6RR4CN / NWF1309A00 Serial Number(s): 364VHQ57KF Classification: General Population/Uncontrolled Rule Part(s): 15 & 90</p> <p>Approved Accessories: Antenna(s): 8571515M01 (806-825 MHz Retractable, 1/4 wave, -0.5 dBd); 8571515M01 (896 - 902 MHz Retractable 1/4 wave, -1.2 dBd) 8571515M01 (902 - 925 MHz Retractable 1/4 wave, -1.2 dBd) Battery(ies): SNN5705D (Li Ion, 1140mAh), NTN2445A (Battery door) Body worn accessory(ies): NNTN7194A (Swivel Carry Holster) Audio/Data cable accessory(ies): None</p> <p style="text-align: center;">Max. Calc. : 1-g Avg. SAR: 1.49W/kg (Body); 10-g Avg. SAR: 1.05W/kg (Body) Max. Calc. : 1-g Avg. SAR: 0.73W/kg (Face); 10-g Avg. SAR: 0.52W/kg (Face) Max. Calc. : 1-g Avg. SAR: 1.12 W/kg (Head); 10-g Avg. SAR: 0.74W/kg (Head)</p>	<p style="transform: rotate(-45deg);">DUT Photo (Refer to Exhibit 7B)</p>
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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.

<p><i>Signature on file – Deanna Zakharia</i> Deanna Zakharia G&PS EME Lab Senior Resource Manager, Laboratory Director,</p> <p>Approval Date: 12/18/07</p>	<p>Certification Date: 12/18/07</p> <p>Certification No.: 071206AD</p>
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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 Federal Office of Metrology and Accreditation
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: **D900V2-085_Aug06/2**

CALIBRATION CERTIFICATE (Replacement of No: D900V2-085_Aug06)

Object **D900V2 - SN: 085**

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

Calibration date: **August 15, 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 (HF)	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** Marcel Fehr **Function** Laboratory Technician **Signature** *[Signature]*

Approved by: **Name** Katja Pokovic **Function** Technical Director **Signature** *[Signature]*

Issued: October 20, 2006

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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Multilateral Agreement for the recognition of calibration certificates

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	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	42.7 ± 6 %	0.95 mho/m ± 6 %
Head TSL temperature during test	(22.2 ± 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	2.63 mW / g
SAR normalized	normalized to 1W	10.5 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	10.8 mW /g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.68 mW / g
SAR normalized	normalized to 1W	6.72 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	6.85 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	47.8 Ω - 8.6 $j\Omega$
Return Loss	- 20.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.364 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: 15.08.2006 12:22:13

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:085

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

Medium: HSL U10 BB;

Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(5.8, 5.8, 5.8); Calibrated: 28.10.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- 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:

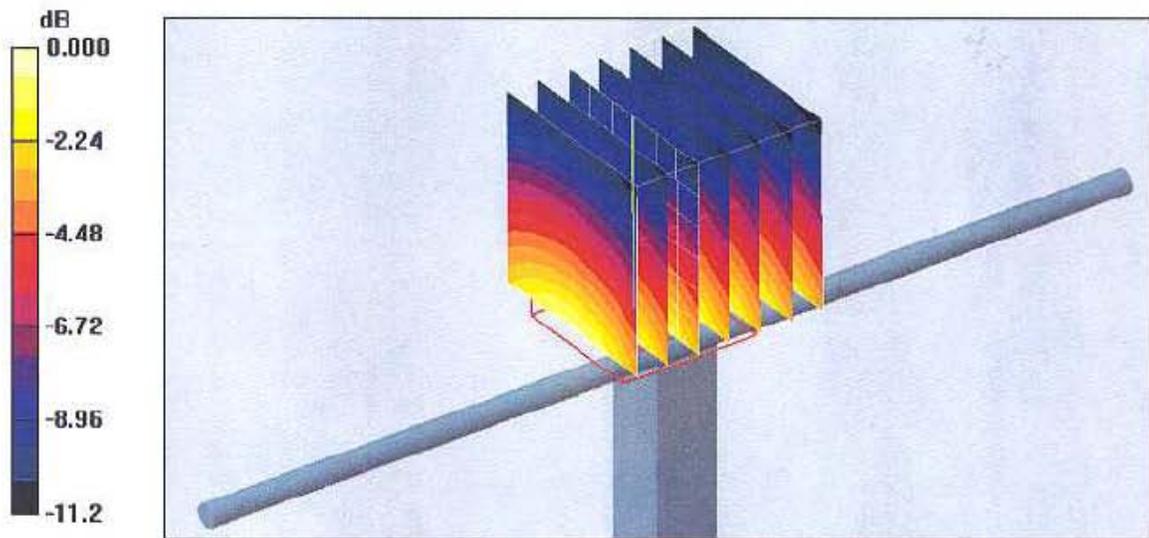
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.7 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 4.01 W/kg

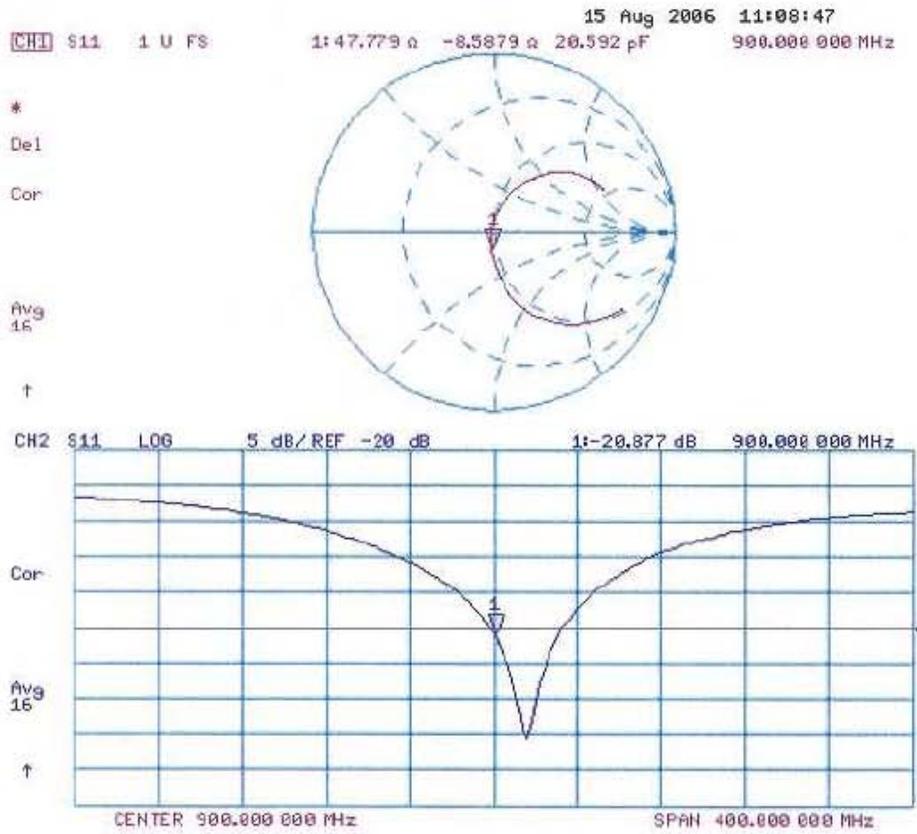
SAR(1 g) = 2.63 mW/g; SAR(10 g) = 1.68 mW/g

Maximum value of SAR (measured) = 2.85 mW/g



0 dB = 2.85mW/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: 11/26/2007 4:07:50 PM

Robot# / Run#: DASY4-FL-1 / JsT(Vee)-SYSP-900B-071126-01

Phantom# / Tissue Temp.: 80302002D-S15 / 21.5 (C)

Dipole Model# / Serial#: D900V2 / 085

TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.52 mW/g (1g)

Calculated: 11.96 mW/g (1g)

Percent from Target (+/-): 3.8 % (1g)

Probe: ET3DV6R - SN1545, Calibrated: 8/28/2007, ConvF(5.68, 5.68, 5.68)

Electronics: DAE3 Sn374, Calibrated: 2/14/2007

Duty Cycle: 1:1, Medium parameters used: f = 900 MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

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

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

Reference Value = 57.3 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 4.39 W/kg

SAR(1 g) = 3.01 mW/g; SAR(10 g) = 1.95 mW/g

Maximum value of SAR (measured) = 3.27 mW/g

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

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

Reference Value = 57.3 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 4.34 W/kg

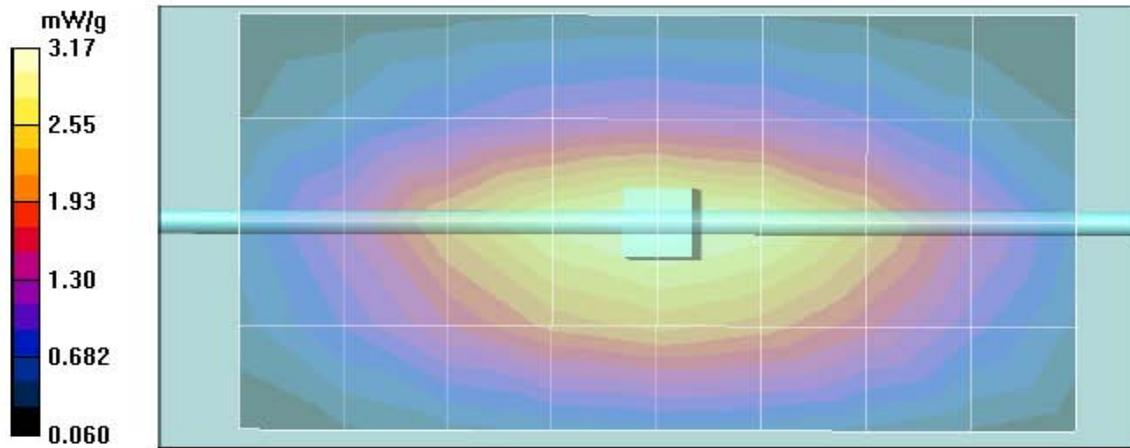
SAR(1 g) = 2.97 mW/g; SAR(10 g) = 1.92 mW/g

Maximum value of SAR (measured) = 3.21 mW/g

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

Maximum value of SAR (measured) = 3.17 mW/g

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



Motorola Government & Public Safety EME Laboratory

Date/Time: 11/29/2007 10:18:36 AM

Robot# / Run#: DASY4-FL-1/ ErC(Vee)-SYSP-900B-071129-01
Phantom# / Tissue Temp.: 80302002D-S15 / 21.5 (C)
Dipole Model# / Serial#: D900V2 / 085
TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.52 mW/g (1g)
Calculated: 11.46 mW/g (1g)
Percent from Target (+/-): 0.5 % (1g)

Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(5.73, 5.73, 5.73)
Electronics: DAE3 Sn406, Calibrated: 11/9/2007

Duty Cycle: 1:1, Medium parameters used: f = 900 MHz; sigma = 1.04 mho/m; epsilon = 52.9; 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 = 57.7 V/m; Power Drift = 0.0202 dB
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 2.86 mW/g; SAR(10 g) = 1.87 mW/g
Maximum value of SAR (measured) = 3.12 mW/g

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

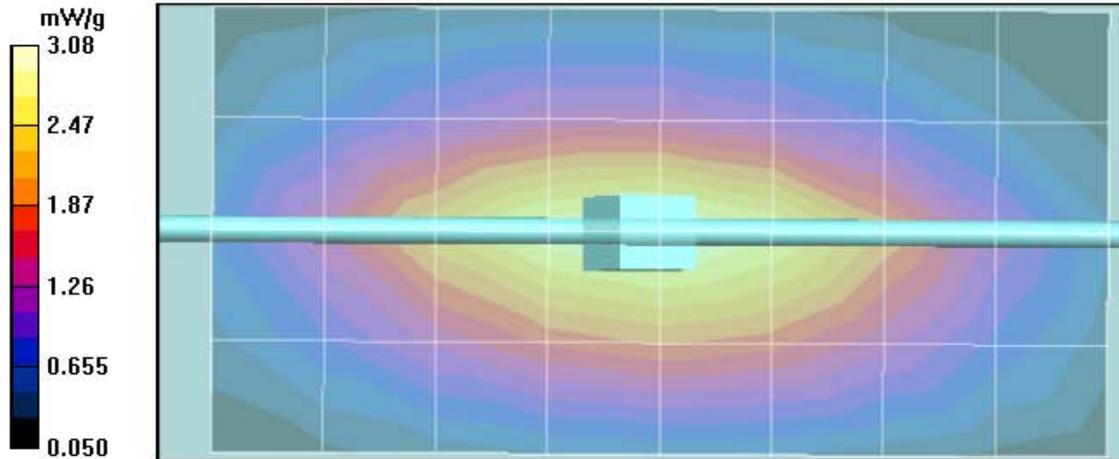
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 57.7 V/m; Power Drift = 0.0202 dB
Peak SAR (extrapolated) = 3.96 W/kg
SAR(1 g) = 2.87 mW/g; SAR(10 g) = 1.87 mW/g
Maximum value of SAR (measured) = 3.13 mW/g

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

Maximum value of SAR (measured) = 3.08 mW/g

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

Maximum value of SAR (measured) = 3.14 mW/g



Motorola Government & Public Safety EME Laboratory

Date/Time: 12/7/2007 7:26:38 AM

Robot# / Run#: DASY4-FL-1/ ErC-SYSP-900B-071207-01
Phantom# / Tissue Temp.: 80302002D-S15 / 20.9 (C)
Dipole Model# / Serial#: D900V2 / 085
TX Freq. / Start power: 900 (MHz) / 250 (mW)

Target: 11.52 mW/g (1g)
Calculated: 11.90 mW/g (1g)
Percent from Target (+/-): 3.3 % (1g)

Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(5.73, 5.73, 5.73)
Electronics: DAE3 Sn406, Calibrated: 11/9/2007
Duty Cycle: 1:1, Medium parameters used: f = 900 MHz; sigma = 1.08 mho/m; epsilon = 52.9; 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 = 58.0 V/m; Power Drift = -0.000936 dB
Peak SAR (extrapolated) = 4.01 W/kg
SAR(1 g) = 2.93 mW/g; SAR(10 g) = 1.92 mW/g
Maximum value of SAR (measured) = 3.20 mW/g

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

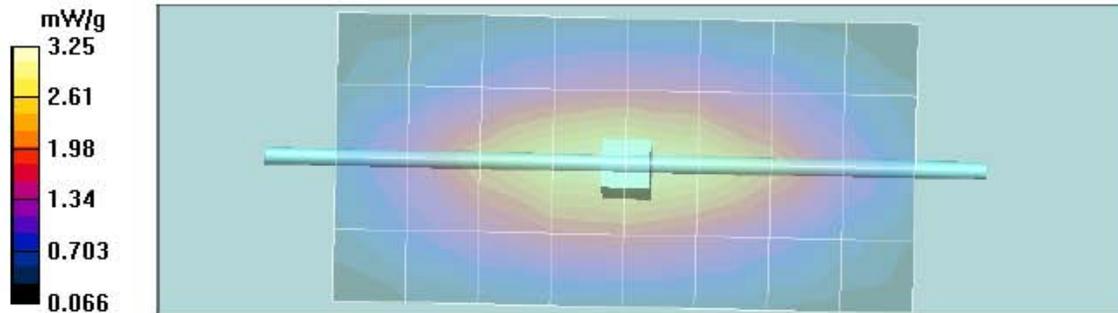
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 58.0 V/m; Power Drift = -0.000936 dB
Peak SAR (extrapolated) = 4.17 W/kg
SAR(1 g) = 3.02 mW/g; SAR(10 g) = 1.97 mW/g
Maximum value of SAR (measured) = 3.23 mW/g

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

Maximum value of SAR (measured) = 3.25 mW/g

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

dz=10mm
Maximum value of SAR (measured) = 3.19 mW/g



DIPOLE SAR TARGET - HEAD

Date: 09/04/07 Frequency (MHz): 900
 Lab Location: NE Mixture Type: IEEE Head
 DAE Serial #: 374 Ambient Temp.(°C): 19.6

Tissue Characteristics
 Permittivity: 40.2 Phantom Type/SN: SAMTP1022
 Conductivity: 0.97 Distance (mm): 15
 Tissue Temp.(°C): 20.2

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 85

Target SAR Value: 10.8 mW/g (1g avg.), 6.9 mW/g (10g avg.)
 (normalized to 1.0 W)

New Target:

Average Measured SAR Value: 11.30 mW/g (1g avg.), 7.26 mW/g (10g avg.)

Percent Difference From Target (MUST be within k=2 Uncertainty): 4.60% (1g ave)
5.17% (10g ave)

Test performed by: J. Turco Initial: 

Probe SN #s	1-G Cube	Diff from Ave	10-G Cube	Diff from Ave	Robot
1547	11.14	-1.39%	7.10	-2.16%	R1
1384	11.40	0.91%	7.29	0.46%	R1
1383	11.35	0.47%	7.38	1.70%	R1
N/A	N/A	#VALUE!	N/A	#VALUE!	N/A
N/A	N/A	#VALUE!	N/A	#VALUE!	N/A
Average	11.2967		7.2567	New Measured SAR Value	
(normalized to 1.0 W, including drift)					

DIPOLE SAR TARGET - BODY

Date: 09/04/07 Frequency (MHz): 900
 Lab Location: NE Mixture Type: FCC Body
 DAE Serial #: 374 Ambient Temp.(°C): 21.9

Tissue Characteristics

Permittivity: 53.5 Phantom Type/SN: 80302002D-S15
 Conductivity: 1.05 Distance (mm): 15
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 85

New Target:

Average Measured SAR Value: 11.52 mW/g(1g avg.), 7.52 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
1383	11.19	-2.9%	7.52	0.0%	R1
1384	11.74	1.9%	7.56	0.5%	R1
1547	11.63	1.0%	7.48	-0.5%	R1
		-100.0%		-100.0%	
		-100.0%		-100.0%	
Average	11.5200		7.5200		New Measured SAR Value
(normalized to 1.0 W, including drift)					

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

Shortened Scan Results

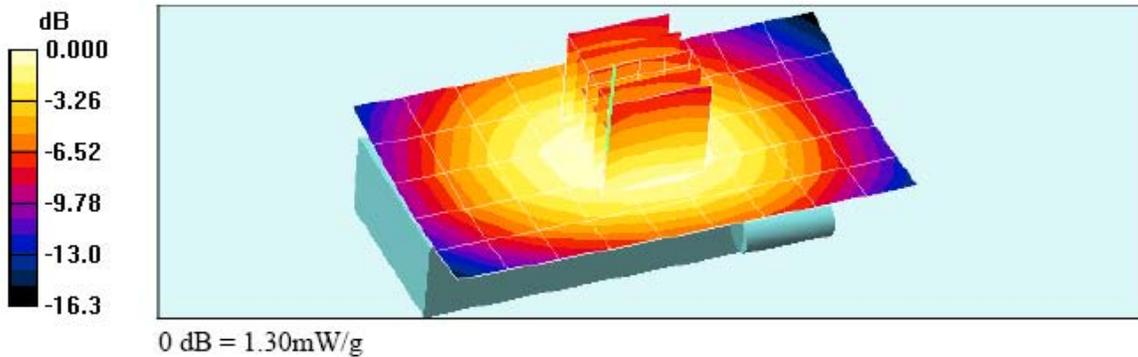
Robot# / Run#: DASY4-FL-1/ JsT-Ab-071207-02
Phantom# / Tissue Temp.: 80302002D-S15 / 21.0 (C)
DUT Model# / Serial#: H65XAN6RR4CN/NWF1309A00 / 364VHQ57KF
Antenna / TX Freq.: In / 898.49375 (MHz)
Battery: SNN5705D w/ NTN2445A
Carry Acc. / Cable Acc.: NNTN7194A (Pilot Version) / None
Start Power: 0.597 (W)

Comments: Short Scan at the body w/ body worn accessory against phantom
 Shortened scan reflect highest SAR producing configuration; Run time 7 minutes.
 Representative “normal” scan run time was 17 minutes
 “Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 1.41mW/g; 10-g Avg. = 1.05mW/g
 “Normal” scan max calculated SAR using SAR drift: 1-g Avg. = 1.49mW/g; 10-g Avg. = 1.05mW/g
 (see part 1 of 2 section 9.0 run # MeC(Vee)-Ab-071126-04)

Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(5.73, 5.73, 5.73)
 Duty Cycle: 1:1.33, Medium: 899 MHz Body, Medium parameters used: f = 899 MHz; $\sigma = 1.08$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³
 Electronics: DAE3 Sn406, Calibrated: 11/9/2007

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 32.0 V/m; Power Drift = -0.032 dB
 Peak SAR (extrapolated) = 1.56 W/kg
 SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.973 mW/g
 Maximum value of SAR (measured) = 1.38 mW/g

Ab Scan/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.30 mW/g



Highest SAR Configurations Results

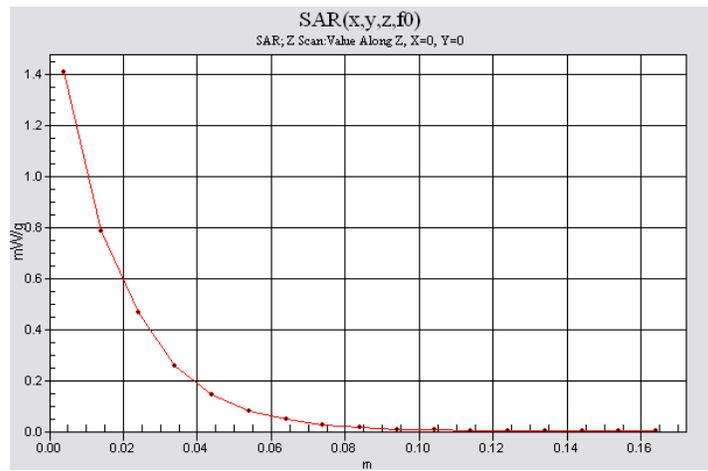
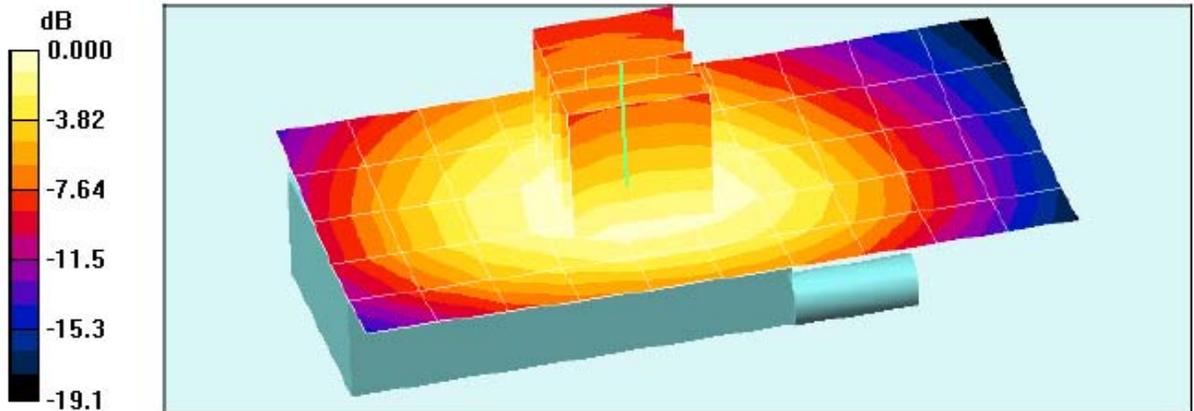
Robot# / Run#: DASY4-FL-1/ MeC(Vee)-Ab-071126-04
Phantom# / Tissue Temp.: 80302002D-S15 / 20.9 (C)
DUT Model# / Serial#: H65XAN6RR4CN / NWF1309A00 / 364VHQ57KF
Antenna / TX Freq.: IN / 898.49375(MHz)
Battery: SNN5705D w/ NTN2445A
Carry Acc. / Cable Acc.: NNTN7194A (PILOT Version) / None
Start Power: 0.594 (W)

Comments: Full Scan

Probe: ET3DV6R - SN1545, Calibrated: 8/28/2007, ConvF(5.68, 5.68, 5.68)
Duty Cycle: 1:1.33, Medium: 899 MHz Body, Medium parameters used: $f = 899$ MHz; $\sigma = 1.07$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³
Electronics: DAE3 Sn374, Calibrated: 2/14/2007

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 34.7 V/m; Power Drift = -0.205 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.934 mW/g
Maximum value of SAR (measured) = 1.46 mW/g

Ab Scan/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.32 mW/g



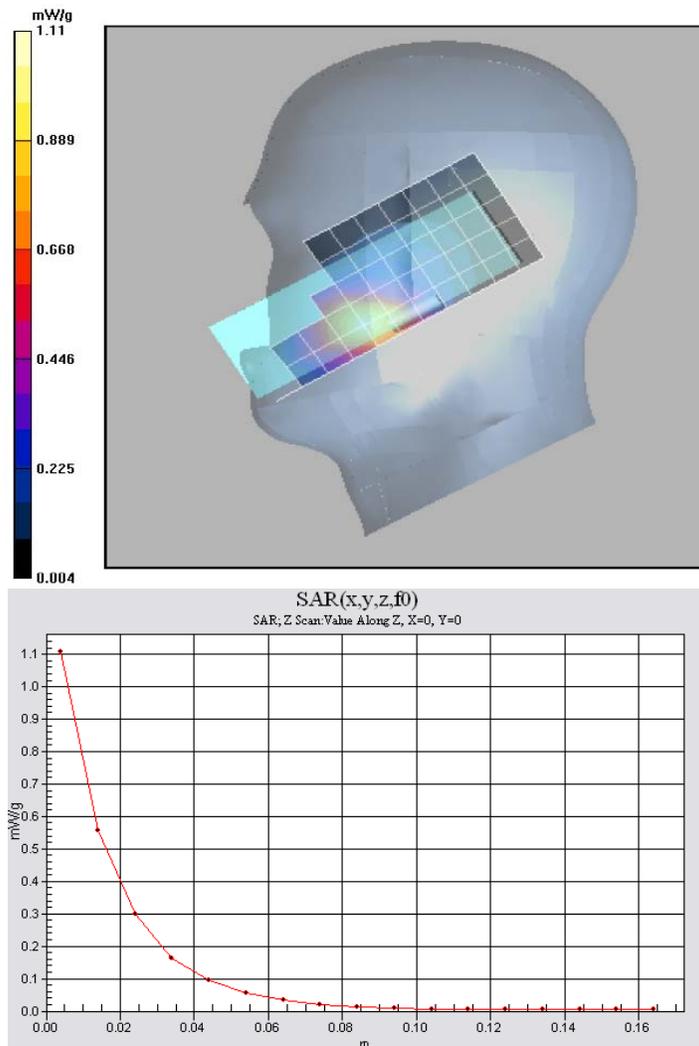
Robot# / Run#: DASY4-FL-1/MeC-Rear-071126-11
Phantom# / Tissue Temp.: SAMTP1234 / 21.8 (C)
DUT Model# / Serial#: H65XAN6RR4CN / NWF1309A00 / 364VHQ57KF
Antenna / TX Freq.: IN / 896.01875 (MHz)
Battery: SNN5705D w/NTN2445A
Carry Acc. / Cable Acc.: None / None
Start Power: 0.571 (W)

Comments: Touch

Probe: ET3DV6R - SN1545, Calibrated: 8/28/2007, ConvF(6.15, 6.15, 6.15)
Electronics: DAE3 Sn374, Calibrated: 2/14/2007
Duty Cycle: 1:3, Medium parameters used: $f = 899$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Right Ear-Touch position/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 24.3 V/m; Power Drift = 0.00315 dB
Motorola Fast SAR: SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.658 mW/g
Maximum value of SAR (interpolated) = 1.09 mW/g

Right Ear-Touch position/Z Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.11 mW/g



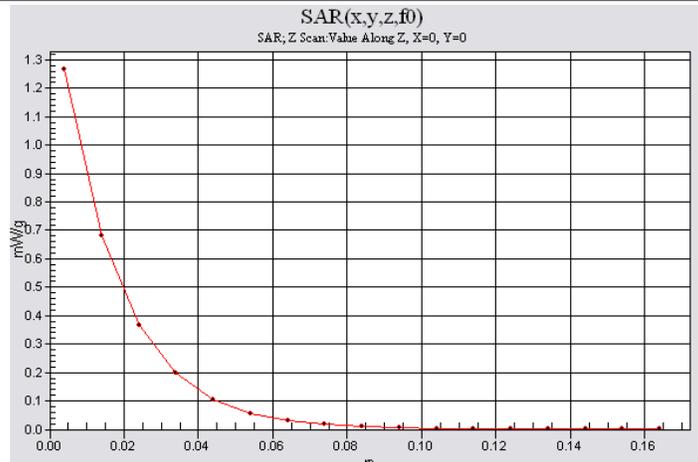
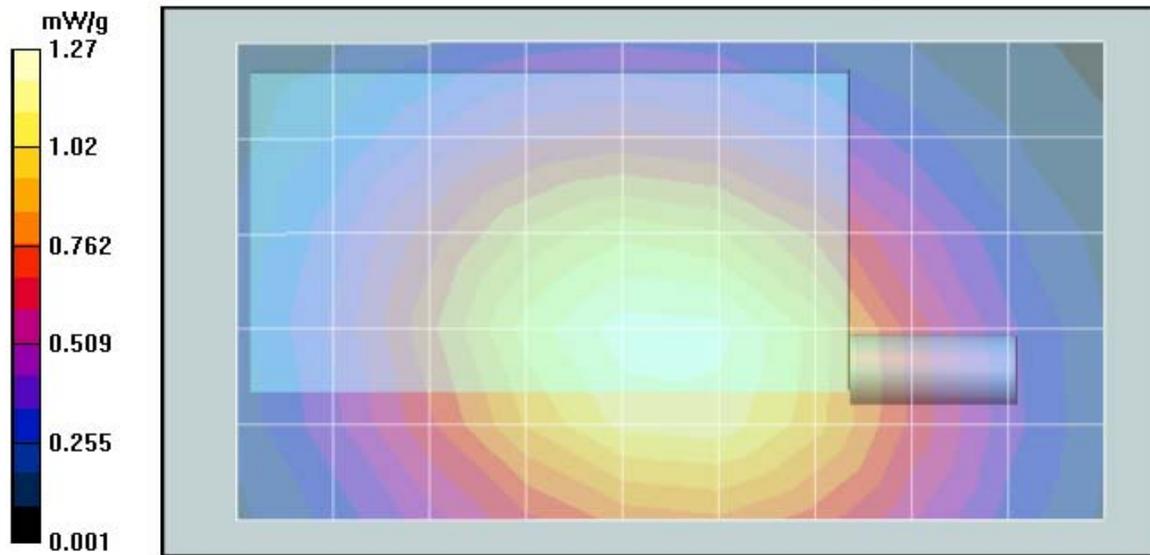
Robot# / Run#: DASY4-FL-1/ MeC-Face-071126-10
Phantom# / Tissue Temp.: SAMTP1234 / 21.7 (C)
DUT Model# / Serial#: H65XAN6RR4CN / NWF1309A00 / 364VHQ57KF
Antenna / TX Freq.: IN / 902.5250 (MHz)
Battery: SNN5705D w/ NTN2445A
Carry Acc. / Cable Acc.: None / None
Start Power: 0.731 (W)

Comments: Flip closed.

Probe: ET3DV6R - SN1545, Calibrated: 8/28/2007, ConvF(6.15, 6.15, 6.15)
Electronics: DAE3 Sn374, Calibrated: 2/14/2007
Duty Cycle: 1:1.05, Medium parameters used: $f = 915$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Face Scan/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 35.8 V/m; Power Drift = 0.0997 dB
Motorola Fast SAR: SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.846 mW/g
Maximum value of SAR (interpolated) = 1.26 mW/g

Face Scan/Z Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.27 mW/g

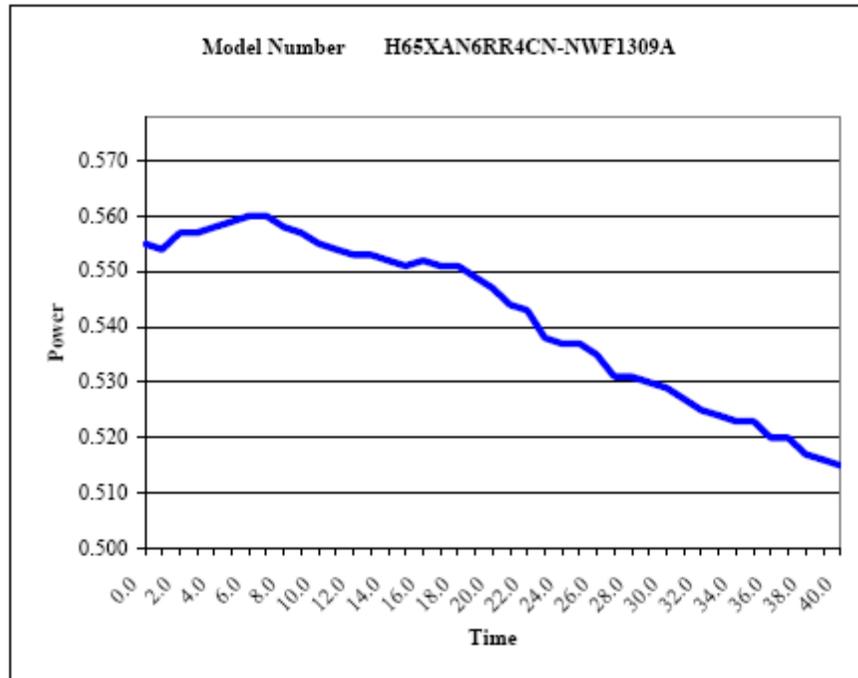


APPENDIX F
DUT Supplementary Data (Power slump)
Model # H65XAN6RR4CN-NWF1309A
Serial # 364VHQ57KF

Battery	# SNN5705D	Transmit Mode	WiDen
Frequency	898.4375 MHz	Audio Accessory	None
Date	12/7/2007		

TX TIME	Measured Power
(Minutes)	(Watts)

0.0	0.555
1.0	0.554
2.0	0.557
3.0	0.557
4.0	0.558
5.0	0.559
6.0	0.560
7.0	0.560
8.0	0.558
9.0	0.557
10.0	0.555
11.0	0.554
12.0	0.553
13.0	0.553
14.0	0.552
15.0	0.551
16.0	0.552
17.0	0.551
18.0	0.551
19.0	0.549
20.0	0.547
21.0	0.544
22.0	0.543
23.0	0.538
24.0	0.537
25.0	0.537
26.0	0.535
27.0	0.531
28.0	0.531
29.0	0.530
30.0	0.529
31.0	0.527
32.0	0.525
33.0	0.524
34.0	0.523
35.0	0.523
36.0	0.520
37.0	0.520
38.0	0.517
39.0	0.516
40.0	0.515



Appendix G
DUT Test Position Photos

(Photos are available in Exhibit 7B)