



MOTOROLA SOLUTIONS



TESTING CERT # 2518.01

## DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Motorola Solutions Inc.  
EME Test Laboratory  
8000 West Sunrise Blvd  
Fort Lauderdale, FL. 33322.

Date of Report: 7/28/11  
Report Revision: O  
Report ID: PMUD2904A\_PMUD2906A\_Rev.O  
110728\_SR9661/9662

**Responsible Engineer:** Michael Sailsman (Senior Staff Eng.)  
**Report Author:** Michael Sailsman (Senior Staff Eng.)  
**Date/s Tested:** 6/27/11-7/20/11  
**Manufacturer/Location:** Penang, Malaysia  
**Sector/Group/Div.:** GTDG  
**Date submitted for test:** 6/3/11  
**DUT Description:** 136-174 MHz, 5W, 12.5/20/25 kHz, 2.402-2.480 GHz (Bluetooth), VHF NKP/FKP with GPS, GOB  
**Test TX mode(s):** CW (PTT); BT (CW)  
**Max. Power output:** 6.0 W (VHF); 10mW (BT)  
**Nominal Power:** 5.0 W (VHF); 2.5mW (BT)  
**Tx Frequency Bands:** 136-174 MHz (VHF); 2.402-2.480 GHz (BT)  
**Signaling type:** FM; FHSS(BT)  
**Model(s) Tested:** PMUD2904A, PMUD2906A  
**Model(s) Certified:** PMUD2904A, PMUD2906A  
**Serial Number(s):** 871TMK0074, 807TMK0042  
**Classification:** Occupational/Controlled  
**FCC ID:** ABZ99FT3085; Rule part 90 (150.8-173.4 MHz); Rule part 15 (2402-2480MHz)  
**IC:** 109AB-99FT3085

\* Refer to section 15 of part 1 for highest SAR summary results.

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing.

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

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

*Deanna M. Zakharia*

Deanna Zakharia

EMS EME Lab Senior Resource Manager,  
Laboratory Director

Approval Date: 7/29/2011

Digitally signed by Zakharia  
Deanna-EDC015  
DN: cn=Zakharia Deanna-EDC015  
Date: 2011.07.29 01:14:42 -04'00'

Certification Date: 7/29/2011

Certification No.: L1110749 & L1110750

## Appendix D

### Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificates for dipoles D2450V2 S/N 704, D300V3 S/N 1014 were not used due to the following:

- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.
- SPEAG calibration certificate indicates that the allowed tolerance for these dipoles are higher than +/- 10% (e.g. up to 2.95 +/- 18.1% at k=2 for the D300V3 S/N 1014 and 53.4 +/- 17.0% at k=2 for D2450V2 S/N 704).
- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 13.3.0% k=2 at 300 MHz and 11% k=2 at 2450MHz for the probes being used to assess this product).

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

- The System Validation was conducted per IEEE1528-2003 and IEC62209-2 Edition 1.0 2010-03 standards using the simulated head tissue and multiple probes that are available and applicable for the dipole under test to verify the System Validation. Results for this dipole are within the measurement system uncertainty of the reference SAR values indicated within IEC62209-2 Edition 1.0 2010-03 when using flat phantom with 2mm thickness is used. These results then are averaged and used as the target for the daily system performance check when the simulated head tissue is used.
- The dipole targets for the body are set immediately following the same process noted above. Since there is no standard referencing the SAR values for the System Validation using the simulated body tissue, the compliant System Validation results using the simulated head tissue are used to justify the use of the System Validation results using the simulated body tissue due to the same setup except for the simulated tissue type.

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

Note that the targets set for the tested dipoles, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between these results and the results from the manufacture's dipole calibration certificates are up to -4.07% for 300 MHz dipole S/N 1014 and 3.50% for 2450 MHz dipole which are well within the measurement uncertainty of the measurement system at k=2.

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

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/27/2011 12:07:37 PM, Date/Time: 6/27/2011 12:12:06 PM, Date/Time: 6/27/2011 12:19:50 PM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110627-01  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 Dipole Model# / Serial#: D300V3 / 1014  
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)  
 Adjusted SAR (1W): 2.73 mW/g (1g)  
 Percent from Target (+/-): 0.1 % (1g)  
 Rotation (1D): 0.13 dB

## Note:

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

Reported SAR: 0.683 mW/g (1g); 0.462 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.727 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.053 V/m; Power Drift = -0.004 dB

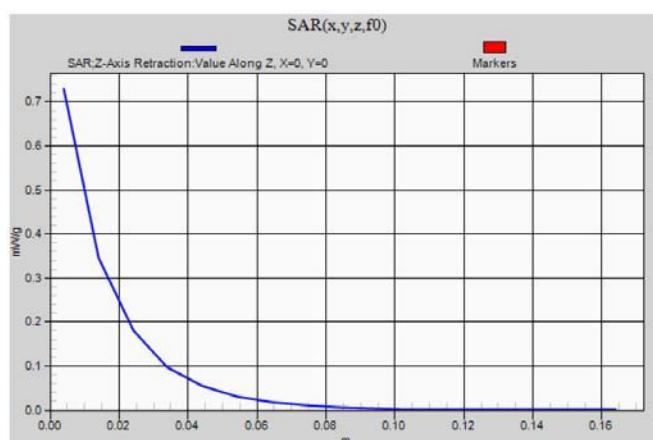
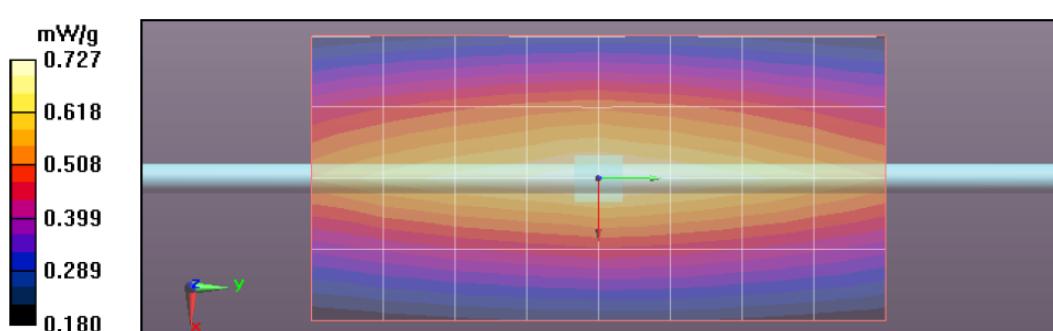
Peak SAR (extrapolated) = 1.029 W/kg

SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.462 mW/g

Maximum value of SAR (measured) = 0.730 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/28/2011 6:37:18 AM, Date/Time: 6/28/2011 6:41:52 AM, Date/Time: 6/28/2011 6:49:35 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110628-01

Phantom# / Tissue Temp.: OVAL1018 / 21.5 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.77 mW/g (1g)

Percent from Target (+/-): 1.5 % (1g)

Rotation (1D): 0.12 dB

## Note:

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

Reported SAR: 0.693 mW/g (1g); 0.468 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 58.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.739 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.273 V/m; Power Drift = -0.01 dB

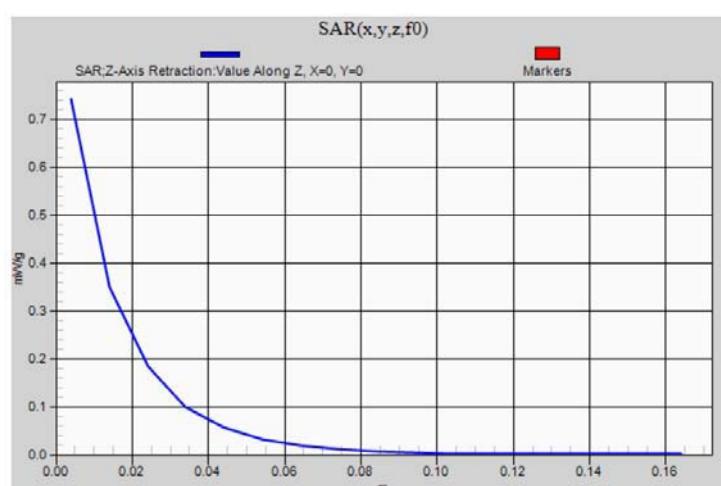
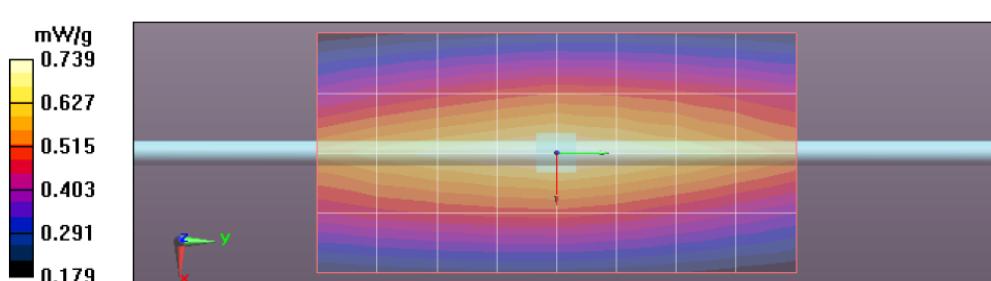
Peak SAR (extrapolated) = 1.045 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.467 mW/g

Maximum value of SAR (measured) = 0.741 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.743 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/29/2011 7:18:08 AM, Date/Time: 6/29/2011 7:22:41 AM, Date/Time: 6/29/2011 7:30:26 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110629-01

Phantom# / Tissue Temp.: OVAL1018 / 21.9 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.80 mW/g (1g)

Percent from Target (+/-): 2.4 % (1g)

Rotation (1D): 0.12 dB

## Note:

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

Reported SAR: 0.699 mW/g (1g); 0.471 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.743 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.590 V/m; Power Drift = -0.03 dB

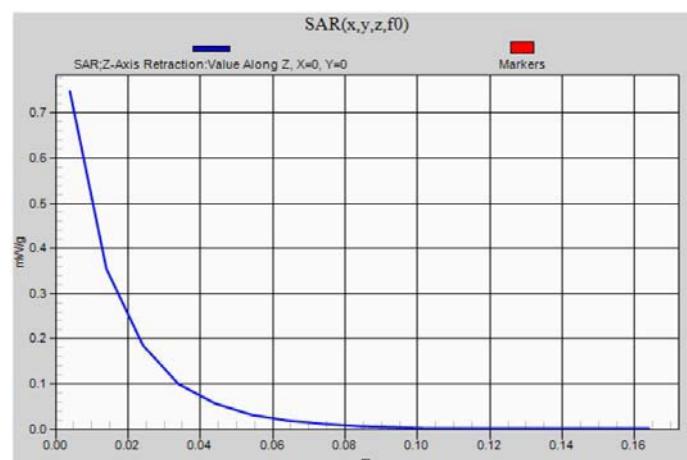
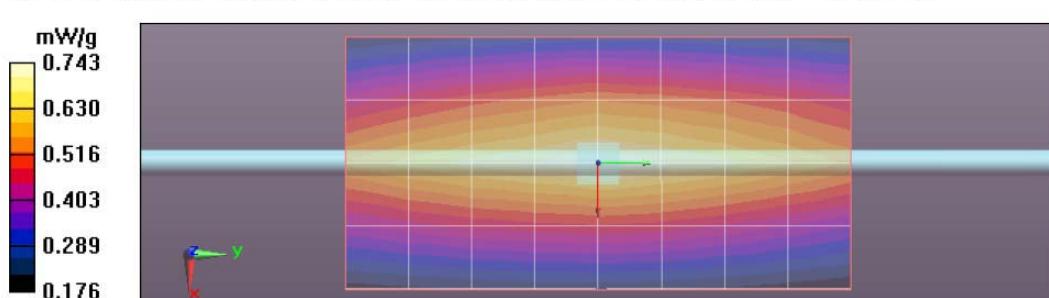
Peak SAR (extrapolated) = 1.050 W/kg

SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.746 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.748 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/30/2011 6:43:23 AM, Date/Time: 6/30/2011 6:47:58 AM, Date/Time: 6/30/2011 6:55:43 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110630-01

Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.77 mW/g (1g)

Percent from Target (+/-): 1.4 % (1g)

Rotation (1D): 0.12 dB

## Note:

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

Reported SAR: 0.692 mW/g (1g); 0.469 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.744 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.520 V/m; Power Drift = -0.016 dB

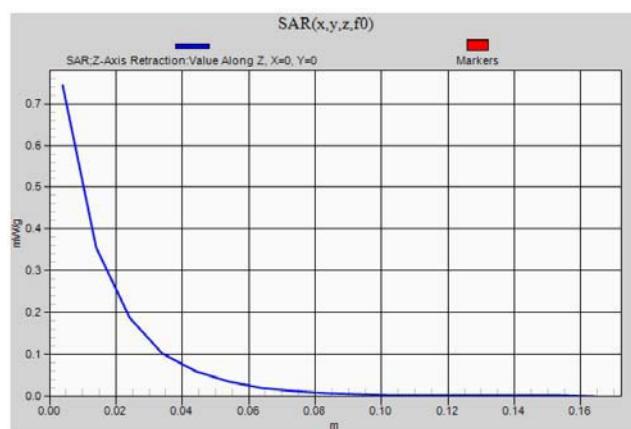
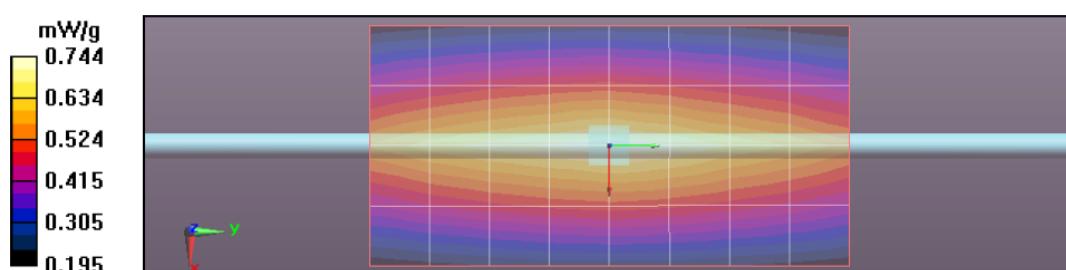
Peak SAR (extrapolated) = 1.039 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.469 mW/g

Maximum value of SAR (measured) = 0.741 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



## Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/1/2011 7:20:46 AM, Date/Time: 7/1/2011 7:25:21 AM, Date/Time: 7/1/2011 7:33:07 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110701-01

Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.75 mW/g (1g)

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

Rotation (1D): 0.12 dB

Note:

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

Reported SAR: 0.688 mW/g (1g); 0.467 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.734 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

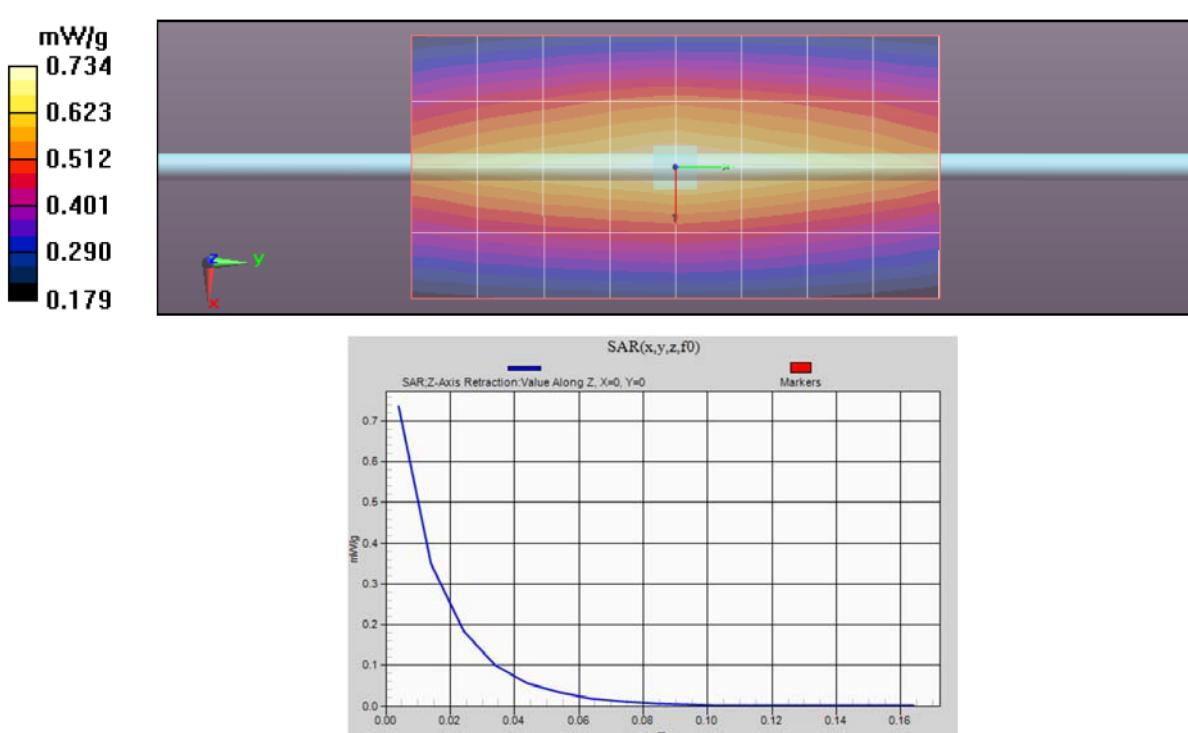
Reference Value = 28.522 V/m; Power Drift = -0.0069 dB

Peak SAR (extrapolated) = 1.030 W/kg

SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.467 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.737 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/5/2011 7:13:15 AM, Date/Time: 7/5/2011 7:17:46 AM, Date/Time: 7/5/2011 7:25:27 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110705-01

Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.80 mW/g (1g)

Percent from Target (+/-): 2.6 % (1g)

Rotation (1D): 0.12 dB

## Note:

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

Reported SAR: 0.700 mW/g (1g); 0.473 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 58.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.743 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.176 V/m; Power Drift = 0.0044 dB

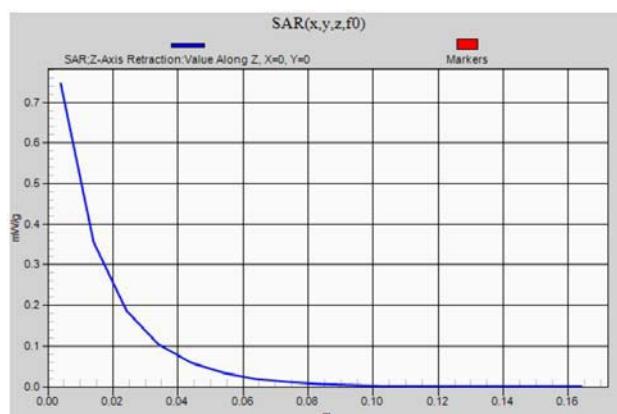
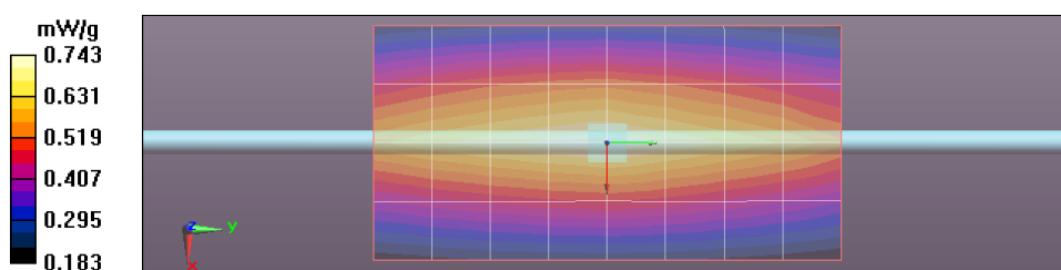
Peak SAR (extrapolated) = 1.049 W/kg

SAR(1 g) = 0.699 mW/g; SAR(10 g) = 0.473 mW/g

Maximum value of SAR (measured) = 0.749 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.746 mW/g



## Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/6/2011 6:24:04 AM, Date/Time: 7/6/2011 6:28:41 AM, Date/Time: 7/6/2011 6:36:28 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110706-01

Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.67 mW/g (1g)

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

Rotation (1D): 0.13 dB

Note:

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

Reported SAR: 0.668 mW/g (1g); 0.453 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.711 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.179 V/m; Power Drift = 0.00093 dB

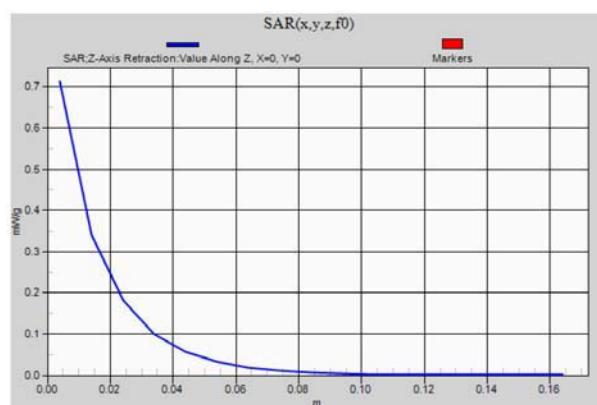
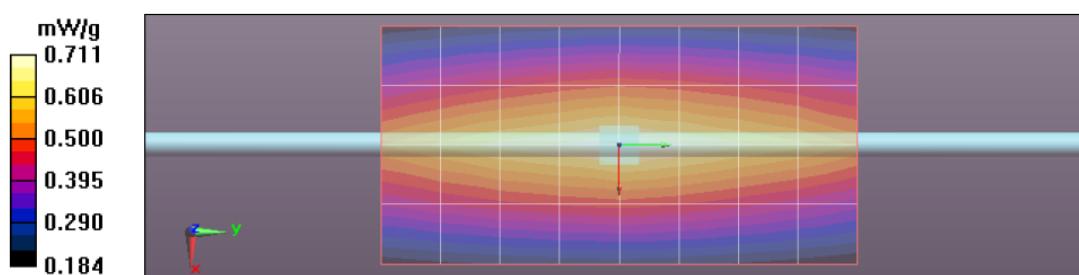
Peak SAR (extrapolated) = 0.993 W/kg

SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.452 mW/g

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

### Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.712 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/7/2011 6:37:50 AM, Date/Time: 7/7/2011 6:42:27 AM, Date/Time: 7/7/2011 6:50:15 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110707-01

Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.72 mW/g (1g)

Percent from Target (+/-): 0.2 % (1g)

Rotation (1D): 0.14 dB

## Note:

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

Reported SAR: 0.681 mW/g (1g); 0.462 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 57.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.722 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.379 V/m; Power Drift = -0.0091 dB

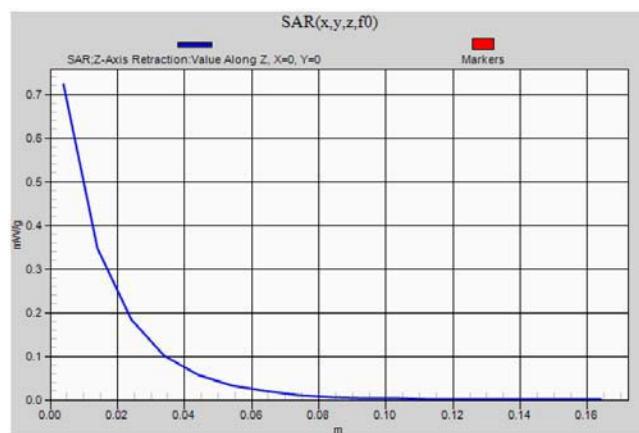
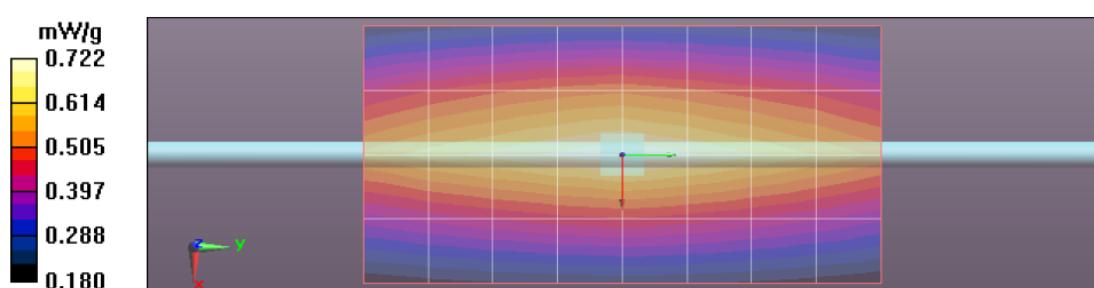
Peak SAR (extrapolated) = 1.011 W/kg

SAR(1 g) = 0.678 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 0.724 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.723 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/11/2011 6:58:21 AM, Date/Time: 7/11/2011 7:03:08 AM, Date/Time: 7/11/2011 7:11:32 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300H-110711-01  
 Phantom# / Tissue Temp.: OVAL1109 / 21.8 (C)  
 Dipole Model# / Serial#: D300V3 / 1014  
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.83 mW/g (1g)  
 Adjusted SAR (1W): 2.80 mW/g (1g)  
 Percent from Target (+/-): 1.1 % (1g)  
 Rotation (1D): 0.1 dB

## Note:

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

Reported SAR: 0.700 mW/g (1g); 0.469 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.85, 6.85, 6.85)  
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 45.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.745 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

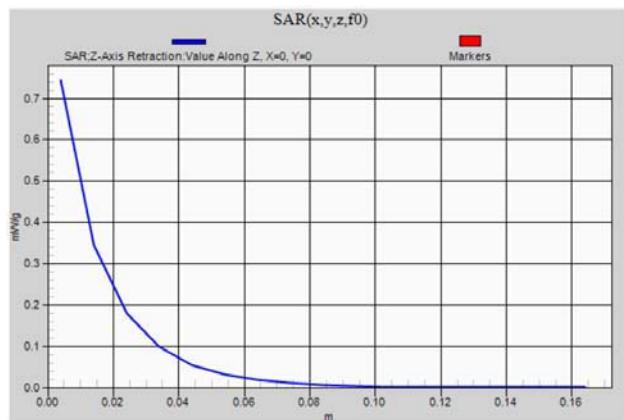
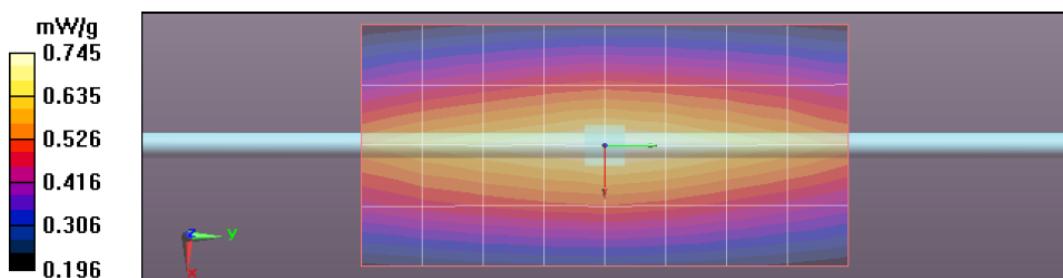
Reference Value = 29.067 V/m; Power Drift = -0.0064 dB

Peak SAR (extrapolated) = 1.084 W/kg

SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.468 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.743 mW/g



## Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/12/2011 6:54:54 AM, Date/Time: 7/12/2011 6:59:35 AM, Date/Time: 7/12/2011 7:07:21 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110712-01  
 Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)  
 Dipole Model# / Serial#: D300V3 / 1014  
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)  
 Adjusted SAR (1W): 2.78 mW/g (1g)  
 Percent from Target (+/-): 1.7 % (1g)  
 Rotation (1D): 0.11 dB

Note:

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

Reported SAR: 0.694 mW/g (1g); 0.472 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.740 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

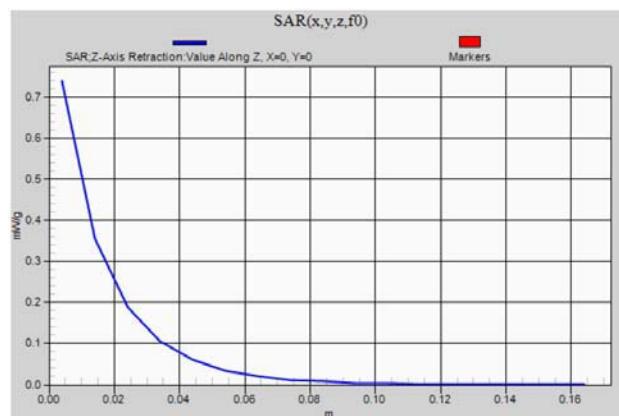
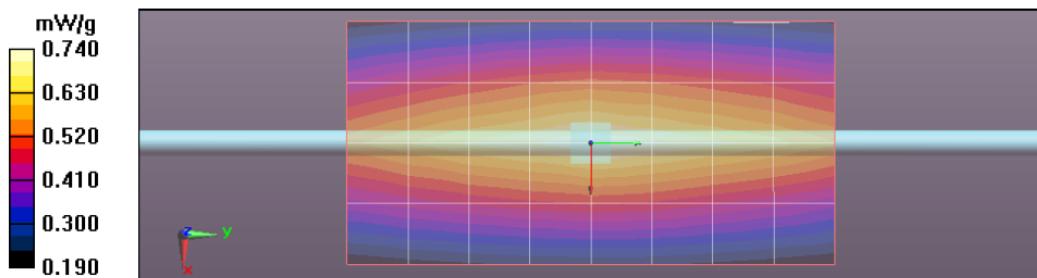
Reference Value = 28.599 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.039 W/kg

SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.472 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm



## Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/13/2011 6:17:44 AM, Date/Time: 7/13/2011 6:22:28 AM, Date/Time: 7/13/2011 6:30:19 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110713-01

Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.71 mW/g (1g)

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

Rotation (1D): 0.11 dB

Note:

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

Reported SAR: 0.677 mW/g (1g); 0.460 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 56.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.718 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

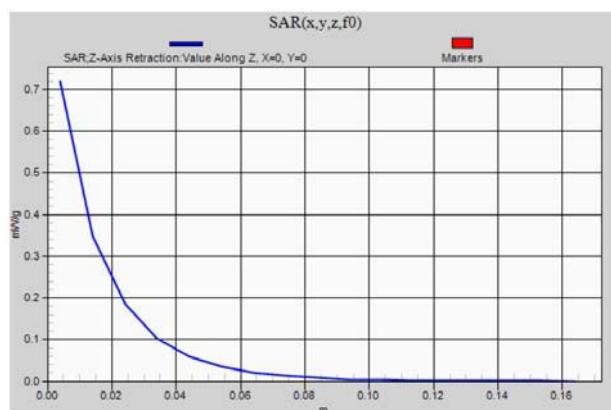
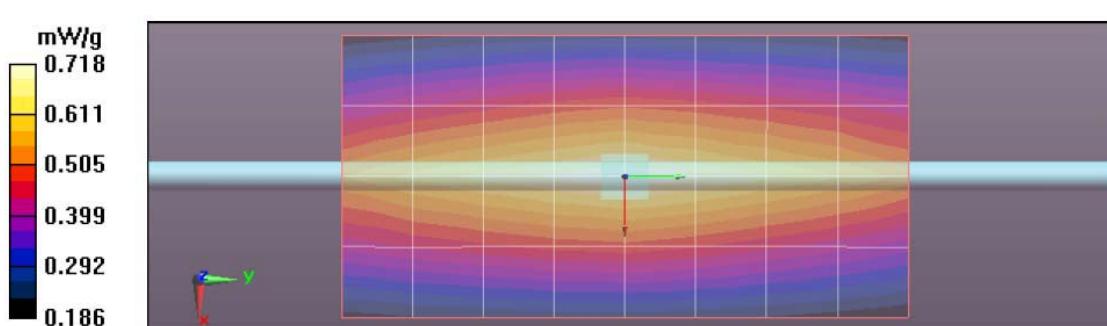
Reference Value = 28.404 V/m; Power Drift = -0.0079 dB

Peak SAR (extrapolated) = 1.000 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.458 mW/g

### Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.719 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/14/2011 6:35:41 AM, Date/Time: 7/14/2011 6:40:26 AM, Date/Time: 7/14/2011 6:48:17 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-300B-110714-01  
 Phantom# / Tissue Temp.: OVAL1018 / 21.4 (C)  
 Dipole Model# / Serial#: D300V3 / 1014  
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)  
 Adjusted SAR (1W): 2.72 mW/g (1g)  
 Percent from Target (+/-): 0.5 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.679 mW/g (1g); 0.460 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.74, 6.74, 6.74)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

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

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.629 V/m; Power Drift = -0.0015 dB

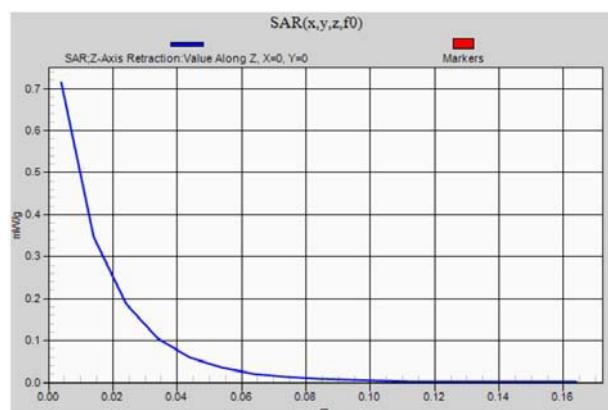
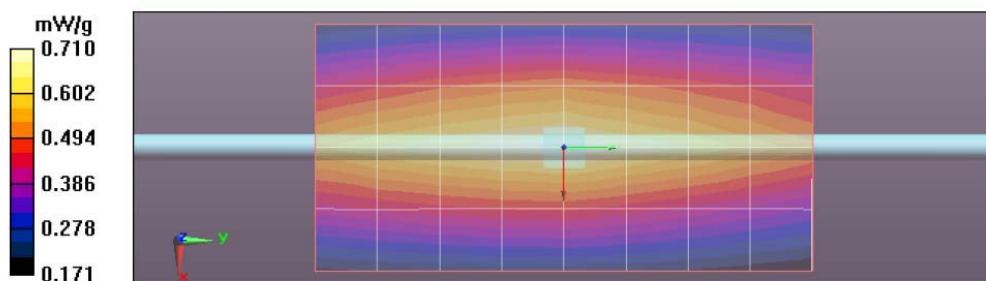
Peak SAR (extrapolated) = 0.993 W/kg

SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.457 mW/g

Maximum value of SAR (measured) = 0.714 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.715 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/15/2011 9:36:18 AM, Date/Time: 7/15/2011 9:40:41 AM, Date/Time: 7/15/2011 9:48:22 AM

Robot# / Run#: DASY5-FL-2 / HvH-SYSP-300H-110715-01

Phantom# / Tissue Temp.: OVAL1109 / 21.5 (C)

Dipole Model# / Serial#: D300V3 / 1014

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.73 mW/g (1g)

Adjusted SAR (1W): 2.78 mW/g (1g)

Percent from Target (+/-): 1.8 % (1g)

Rotation (1D): 0.12 dB

## Note:

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

Reported SAR: 0.695 mW/g (1g); 0.466 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(6.85, 6.85, 6.85)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 300$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 45.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (41x81x1):**

Measurement grid: dx=15mm, dy=15mm

Reference Value = 29.229 V/m; Power Drift = 0.0069 dB

**Motorola Fast SAR:** SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (interpolated) = 0.740 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.229 V/m; Power Drift = 0.0069 dB

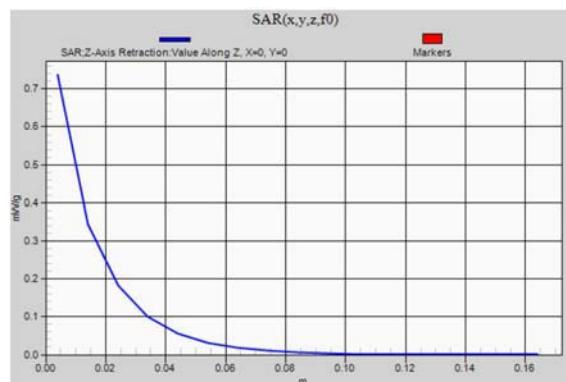
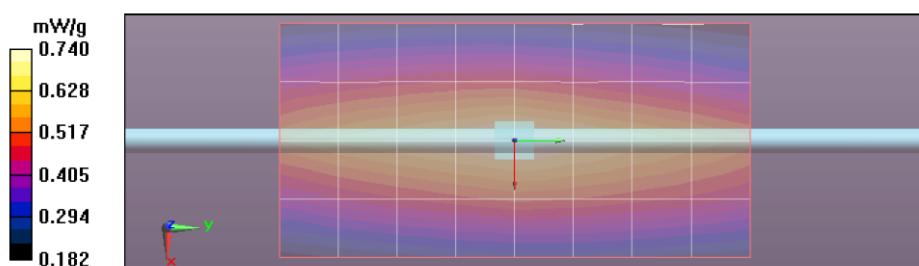
Peak SAR (extrapolated) = 1.073 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.465 mW/g

Maximum value of SAR (measured) = 0.738 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.737 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/20/2011 7:31:41 AM, Date/Time: 7/20/2011 7:36:10 AM, Date/Time: 7/20/2011 7:43:52 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-2450B-110720-01

Phantom# / Tissue Temp.: OVAL1022 / 21.6 (C)

Dipole Model# / Serial#: D2450V2 / 704

TX Freq. / Start power: 2450 (MHz) / 30 (mW)

Target SAR (1W): 52.20 mW/g (1g)

Adjusted SAR (1W): 50.00 mW/g (1g)

Percent from Target (+/-): 4.2 % (1g)

Rotation (1D): 0.16 dB

## Note:

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

Reported SAR: 1.50 mW/g (1g); 0.699 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(4.14, 4.14, 4.14)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (5x9x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.699 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.493 V/m; Power Drift = 0.014 dB

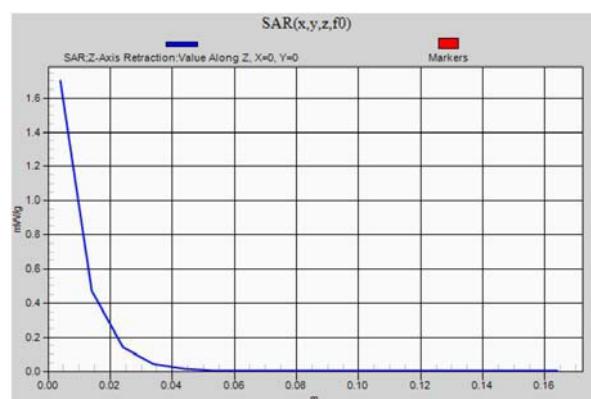
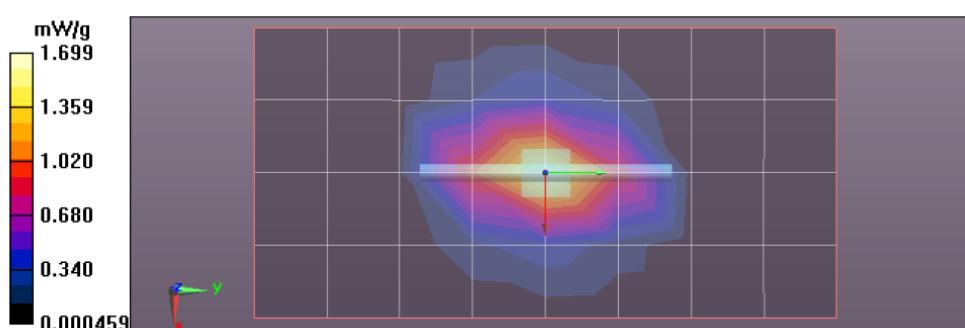
Peak SAR (extrapolated) = 2.979 W/kg

SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.693 mW/g

Maximum value of SAR (measured) = 1.676 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.700 mW/g



DIPOLE SAR TARGET - HEAD

Date:	<b>03/01/11</b>	Frequency (MHz):	<b>300</b>
Lab Location:	<b>FL08</b>	Mixture Type:	<b>IEEE Head</b>
DAE Serial #:	<b>1231</b>	Ambient Temp.(°C):	<b>21.1</b>

**Tissue Characteristics**

Permitivity:	<b>43.8</b>
Conductivity:	<b>0.85</b>
Tissue Temp.(°C):	<b>20</b>

Phantom Type/SN:	<b>OVAL1018</b>
Distance (mm):	<b>2</b>

Reference Source:	<b>Dipole</b>
Reference SN:	<b>1014</b>

Power to Dipole:	<b>250</b> mW
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<b>Target 1g-SAR Value (mW/g, normalized to 1.0 W):</b>	<b>2.85</b>
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**Difference from Target**

<b>-0.70%</b>	<b>(1g-SAR)</b>
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**New Target:**

Average 1g-SAR Value (mW/g):	<b>2.83</b>
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<b>Passes K=2</b>
-------------------

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3291	2.780	-1.8%	R1
3185	2.860	1.1%	R1
3147	2.850	0.7%	R1
<b>Average</b>		<b>2.8300</b>	New Measured SAR Value

(normalized to 1.0 W)

Test performed by:

**M. Cieslar**

Initial:

mcj

**DIPOLE SAR TARGET - BODY**

Date:	<u>03/01/11</u>	Frequency (MHz):	<u>300</u>
Lab Location:	<u>FL08</u>	Mixture Type:	<u>Body</u>
DAE Serial #:	<u>1231</u>	Ambient Temp.(°C):	<u>21.1</u>

**Tissue Characteristics**

Permitivity:	<u>55.5</u>	Phantom Type/SN:	<u>OVAL1022</u>
Conductivity:	<u>0.88</u>	Distance (mm):	<u>2</u>
Tissue Temp.(°C):	<u>20.2</u>		

Reference Source:	<u>Dipole</u>	Power to Dipole:	<u>250</u> mW
Reference SN:	<u>1014</u>		

**New Target:**

Average Measured SAR Value: 2.73 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	2.70	-1.2%	R1
3291	2.72	-0.5%	R1
3185	2.78	1.7%	R1
<b>Average</b>		<b>New Measured SAR Value</b>	

(normalized to 1.0 W)

Test performed by: M. Cieslar Initial: mcp

DIPOLE SAR TARGET - HEAD

Date:	12/21/10	Frequency (MHz):	2450
Lab Location:	FL08	Mixture Type:	IEEE Head
DAE Serial #:	729	Ambient Temp.(°C):	21.6

Tissue Characteristics			
Permitivity:	38.9	Phantom Type/SN:	DUAL 1002 Side A
Conductivity:	1.82	Distance (mm):	10
Tissue Temp.(°C):	20.9		

Reference Source:	Dipole	Power to Dipole:	50 mW
Reference SN:	704		

Target 1g-SAR Value (mW/g, normalized to 1.0 W):	52.4	Difference from Target	5.47% (1g-SAR)
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New Target:	Average 1g-SAR Value (mW/g):	55.27	Passes K=2
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Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3147	54.40	-1.6%	R2
3185	55.40	0.2%	R2
3163	56.00	1.3%	R2
Average	55.2667	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: Erc

DIPOLE SAR TARGET - BODY

Date: 12/21/10 Frequency (MHz): 2450  
 Lab Location: FL08 Mixture Type: Body  
 DAE Serial #: 729 Ambient Temp.(°C): 21.5

## Tissue Characteristics

Permitivity: 53.9 Phantom Type/SN: DUAL 1002 Side B  
 Conductivity: 1.90 Distance (mm): 10  
 Tissue Temp.(°C): 20.9

Reference Source: Dipole Power to Dipole: 50 mW  
 Reference SN: 704

## New Target:

Average Measured SAR Value: 52.20 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3163	51.40	-1.5%	R2
3185	52.00	-0.4%	R2
3147	53.20	1.9%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by:

Ed Church

Initial:

ECC

**Appendix E**  
**FCC Part 90 (150.8 – 173.4 MHz)**  
**DUT Scans (Shortened Scan and Highest SAR configurations)**

## Shortened Scan Result (Section 13.18, Table 48)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/14/2011 12:29:45 PM, Date/Time: 7/14/2011 12:42:30 PM, Date/Time: 7/14/2011 12:46:03 PM,  
Date/Time: 7/14/2011 12:59:58 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110714-10  
Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
DUT Model# / Serial#: PMUD2904A / 871TMK0074  
Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
Start Power: 5.91 (W)

Note:  
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 4.10 mW/g (1g); 2.26 mW/g (10g)

Comments: Shortened Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.78$  mho/m;  $\epsilon_r = 60.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 53.478 V/m; Power Drift = -0.49 dB

**Motorola Fast SAR:** SAR(1 g) = 4.24 mW/g; SAR(10 g) = 2.84 mW/g

Maximum value of SAR (interpolated) = 4.776 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 53.478 V/m; Power Drift = -0.52 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 3.73 mW/g; SAR(10 g) = 2.58 mW/g

Maximum value of SAR (interpolated) = 4.093 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

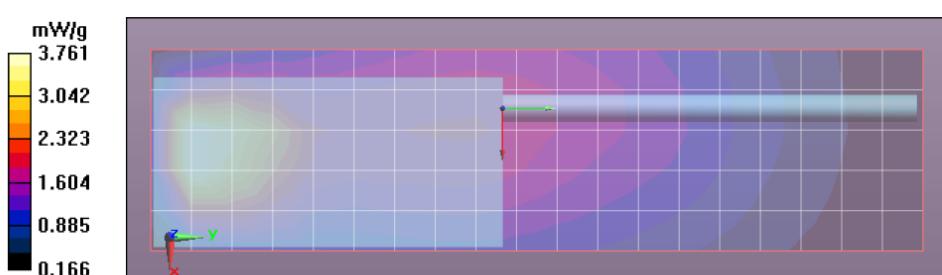
Reference Value = 68.965 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 8.396 W/kg

**SAR(1 g) = 4.07 mW/g; SAR(10 g) = 2.25 mW/g**

Maximum value of SAR (measured) = 4.299 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 3.751 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 10 minutes.

Representative full scan run time was 28 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 2.21 mW/g; 10-g Avg. = 1.22 mW/g.

Zoom scan max calculated SAR using SAR drift (see part 1 section 13.13): 1-g Avg. = 2.34 mW/g; 10-g Avg. = 1.33 mW/g.

**Section 13.13 Table 35**  
**Body - Highest SAR Configuration Result**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/13/2011 10:22:31 AM, Date/Time: 7/13/2011 10:35:16 AM, Date/Time: 7/13/2011 10:38:10 AM,  
 Date/Time: 7/13/2011 10:44:26 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110713-07  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 5.89 (W)

Note:

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

Reported SAR: 3.93 mW/g (1g); 2.24 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.79$  mho/m;  $\epsilon_r = 60.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 55.494 V/m; Power Drift = -0.51 dB

**Motorola Fast SAR:** SAR(1 g) = 4.06 mW/g; SAR(10 g) = 2.88 mW/g

Maximum value of SAR (interpolated) = 4.474 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 55.494 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 3.98 mW/g; SAR(10 g) = 2.75 mW/g

Maximum value of SAR (interpolated) = 4.380 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 55.494 V/m; Power Drift = -0.68 dB

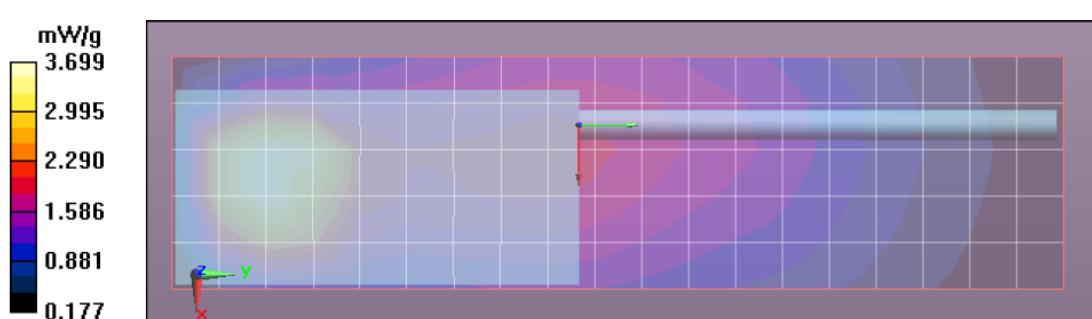
Peak SAR (extrapolated) = 8.699 W/kg

**SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.24 mW/g**

Maximum value of SAR (measured) = 4.240 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 4.151 mW/g



**Section 13.17 Table 44**  
**Face - Highest SAR Configuration Result**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/15/2011 2:32:11 PM, Date/Time: 7/15/2011 2:44:12 PM, Date/Time: 7/15/2011 2:47:01 PM,  
 Date/Time: 7/15/2011 2:53:10 PM

Robot# / Run#: DASY5-FL-2 / HvH-Face-110715-08  
 Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2906A / 807TMK0042  
 Antenna / TX Freq.: PMAD4117A / 144.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 6.28 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.66 mW/g (1g); 1.28 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 144$  MHz;  $\sigma = 0.73$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 49.101 V/m; Power Drift = -0.46 dB

**Motorola Fast SAR:** SAR(1 g) = 1.72 mW/g; SAR(10 g) = 1.31 mW/g

Maximum value of SAR (interpolated) = 1.792 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 49.101 V/m; Power Drift = -0.56 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.27 mW/g

Maximum value of SAR (interpolated) = 1.742 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 49.101 V/m; Power Drift = -0.70 dB

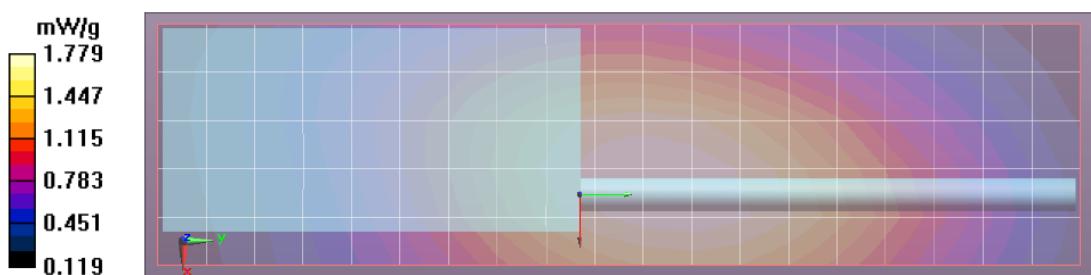
Peak SAR (extrapolated) = 2.185 W/kg

**SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.28 mW/g**

Maximum value of SAR (measured) = 1.717 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 1.684 mW/g



**Appendix F**  
**DUT Scans - FCC Part 90 (150.8 – 173.4 MHz)**

## Section 13.2 Table 13

### Assessments at the Body with Body worn RLN4570A

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/29/2011 8:46:14 AM, Date/Time: 6/29/2011 8:56:09 AM, Date/Time: 6/29/2011 8:58:58 AM,  
Date/Time: 6/29/2011 9:05:07 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110629-02  
 Phantom# / Tissue Temp.: OVAL1018 / 21.7 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 150.8000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: RLN4570A / PMMN4024A  
 Start Power: 6.19 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.69 mW/g (1g); 0.958 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 64.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

#### **Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 47.741 V/m; Power Drift = -0.57 dB

**Motorola Fast SAR:** SAR(1 g) = 1.75 mW/g; SAR(10 g) = 1.21 mW/g

Maximum value of SAR (interpolated) = 1.892 mW/g

#### **Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 47.741 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.7 mW/g; SAR(10 g) = 1.16 mW/g

Maximum value of SAR (interpolated) = 1.828 mW/g

#### **Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

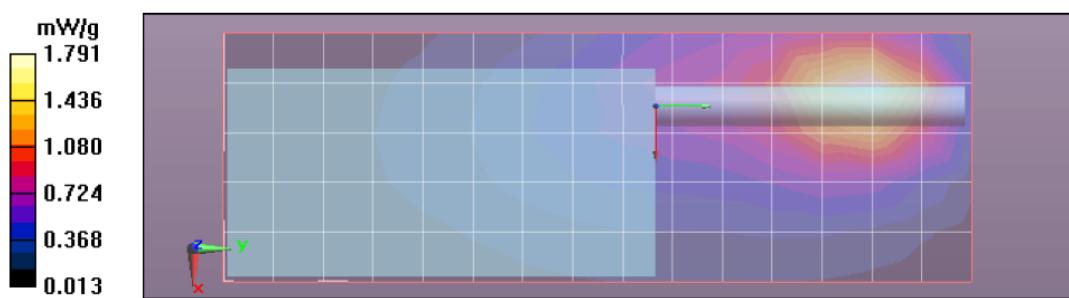
Reference Value = 47.741 V/m; Power Drift = -0.73 dB

Peak SAR (extrapolated) = 3.412 W/kg

**SAR(1 g) = 1.67 mW/g; SAR(10 g) = 0.951 mW/g**

Maximum value of SAR (measured) = 1.785 mW/g

#### **Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.736 mW/g



**Section 13.2 Table 14**  
**Assessments at the Body with Body worn RLN4570A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/29/2011 11:12:35 AM, Date/Time: 6/29/2011 11:22:33 AM, Date/Time: 6/29/2011 11:25:19 AM,  
 Date/Time: 6/29/2011 11:31:27 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110629-05  
 Phantom# / Tissue Temp.: OVAL1018 / 21.6 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 150.8000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: RLN4570A / PMMN4024A  
 Start Power: 6.12 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.22 mW/g (1g); 0.797 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 64.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 42.799 V/m; Power Drift = -0.83 dB

**Motorola Fast SAR:** SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.909 mW/g

Maximum value of SAR (interpolated) = 1.312 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 42.799 V/m; Power Drift = -0.90 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.894 mW/g

Maximum value of SAR (interpolated) = 1.303 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 42.799 V/m; Power Drift = -1.10 dB

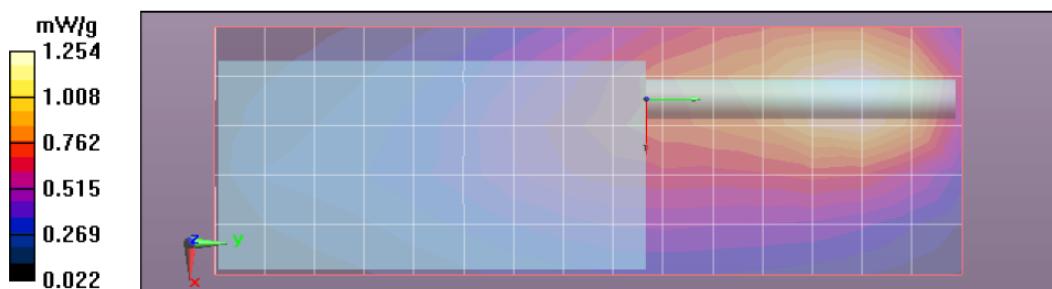
Peak SAR (extrapolated) = 2.032 W/kg

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.791 mW/g**

Maximum value of SAR (measured) = 1.284 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 1.252 mW/g



### Section 13.3 Table 15

#### Assessments at the Body with Body worn RLN4815A

##### Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/29/2011 3:22:28 PM, Date/Time: 6/29/2011 3:34:44 PM, Date/Time: 6/29/2011 3:37:33 PM,  
Date/Time: 6/29/2011 3:43:41 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110629-11  
Phantom# / Tissue Temp.: OVAL1018 / 21.2 (C)  
DUT Model# / Serial#: PMUD2904A / 871TMK0074  
Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
Battery: PMNN4407A  
Carry Acc. / Cable Acc.: RLN4815A / PMMN4024A  
Start Power: 6.23 (W)

Note:  
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.788 mW/g (1g); 0.593 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)  
Electronics: DAE3 Sn363, Calibrated: 4/13/2011

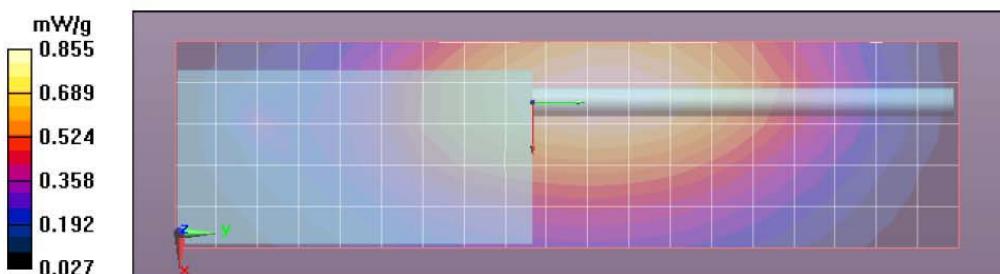
Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.83$  mho/m;  $\epsilon_r = 63.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 33.185 V/m; Power Drift = -0.48 dB  
**Motorola Fast SAR:** SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.624 mW/g  
Maximum value of SAR (interpolated) = 0.864 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 33.185 V/m; Power Drift = -0.55 dB  
Peak SAR (extrapolated) = Not Specified W/kg  
**Motorola Fast SAR:** SAR(1 g) = 0.806 mW/g; SAR(10 g) = 0.609 mW/g  
Maximum value of SAR (interpolated) = 0.841 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 33.185 V/m; Power Drift = -0.71 dB  
Peak SAR (extrapolated) = 1.062 W/kg  
**SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.589 mW/g**  
Maximum value of SAR (measured) = 0.819 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 0.801 mW/g



**Section 13.3 Table 16**  
**Assessments at the Body with Body worn RLN4815A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/29/2011 9:27:27 PM, Date/Time: 6/29/2011 9:41:30 PM, Date/Time: 6/29/2011 9:44:16 PM,  
 Date/Time: 6/29/2011 9:50:18 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110629-16  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: RLN4815A / PMMN4024A  
 Start Power: 6.30 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.855 mW/g (1g); 0.639 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.83$  mho/m;  $\epsilon_r = 63.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (61x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.044 V/m; Power Drift = -0.50 dB

**Motorola Fast SAR:** SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.679 mW/g

Maximum value of SAR (interpolated) = 0.939 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 35.044 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.656 mW/g

Maximum value of SAR (interpolated) = 0.906 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 35.044 V/m; Power Drift = -0.70 dB

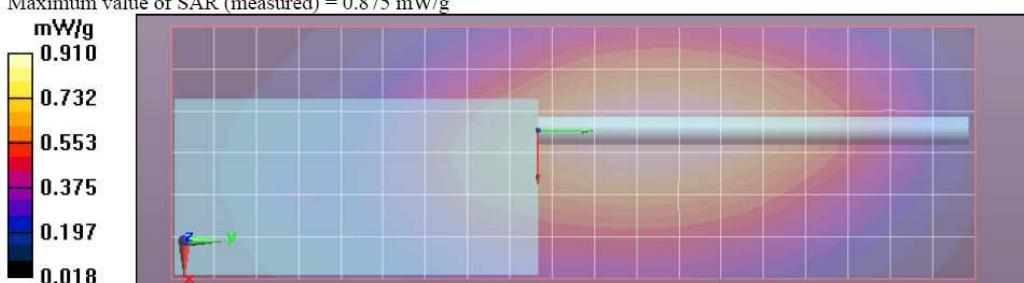
Peak SAR (extrapolated) = 1.164 W/kg

**SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.635 mW/g**

Maximum value of SAR (measured) = 0.888 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,  
 dz=10mm

Maximum value of SAR (measured) = 0.875 mW/g



## Section 13.4 Table 17

### Assessments at the body with Body worn PMLN4651A

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/30/2011 8:50:59 AM, Date/Time: 6/30/2011 9:03:17 AM, Date/Time: 6/30/2011 9:06:07 AM,  
Date/Time: 6/30/2011 9:12:15 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110630-04  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMMN4024A  
 Start Power: 6.27 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.19 mW/g (1g); 0.777 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.83$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 38.133 V/m; Power Drift = -0.50 dB

**Motorola Fast SAR:** SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.853 mW/g

Maximum value of SAR (interpolated) = 1.255 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 38.133 V/m; Power Drift = -0.54 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.834 mW/g

Maximum value of SAR (interpolated) = 1.309 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 38.133 V/m; Power Drift = -0.71 dB

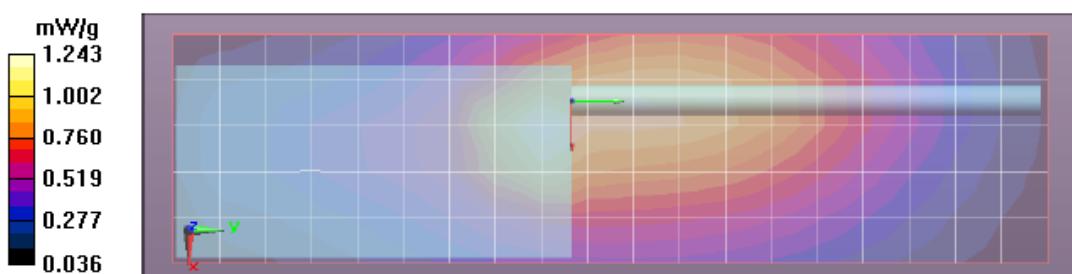
Peak SAR (extrapolated) = 2.111 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.773 mW/g

Maximum value of SAR (measured) = 1.242 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 1.247 mW/g



## Section 13.4 Table 18

### A Assessment at the Body with Body worn PMLN4651A (additional batteries)

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/30/2011 10:53:48 AM, Date/Time: 6/30/2011 11:06:06 AM, Date/Time: 6/30/2011 11:08:56 AM,  
Date/Time: 6/30/2011 11:15:06 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110630-07  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4412A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMMN4024A  
 Start Power: 5.93 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.15 mW/g (1g); 0.727 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.83$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.604 V/m; Power Drift = -0.51 dB

Motorola Fast SAR: SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.759 mW/g

Maximum value of SAR (interpolated) = 1.108 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 34.604 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.777 mW/g

Maximum value of SAR (interpolated) = 1.254 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 34.604 V/m; Power Drift = -0.51 dB

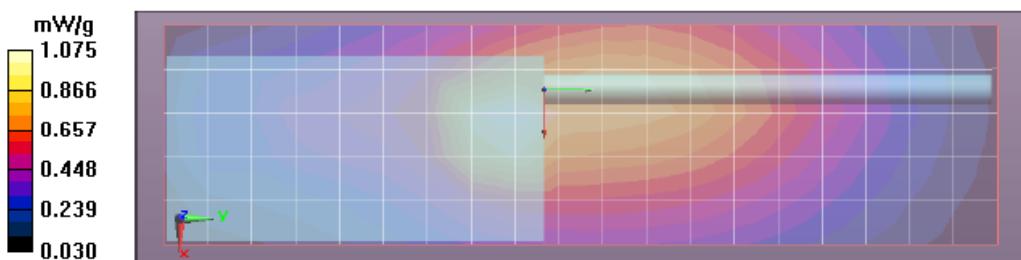
Peak SAR (extrapolated) = 2.170 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.723 mW/g

Maximum value of SAR (measured) = 1.234 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 1.226 mW/g



**Section 13.5 Table 19**  
**Assessment at the Body with Body worn PMLN7008A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 6/30/2011 3:47:30 PM, Date/Time: 6/30/2011 3:59:47 PM, Date/Time: 6/30/2011 4:02:36 PM,  
 Date/Time: 6/30/2011 4:08:46 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110630-13  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN7008A / PMMN4024A  
 Start Power: 6.29 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.21 mW/g (1g); 0.802 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

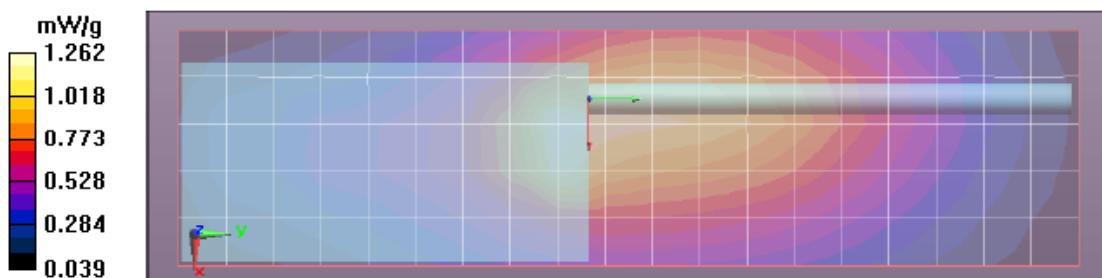
Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.83$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 37.229 V/m; Power Drift = -0.35 dB  
 Motorola Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.880 mW/g  
 Maximum value of SAR (interpolated) = 1.308 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 37.229 V/m; Power Drift = -0.47 dB  
 Peak SAR (extrapolated) = Not Specified W/kg  
 Motorola Fast SAR: SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.868 mW/g  
 Maximum value of SAR (interpolated) = 1.354 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 37.229 V/m; Power Drift = -0.60 dB  
 Peak SAR (extrapolated) = 2.105 W/kg  
 SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.797 mW/g  
 Maximum value of SAR (measured) = 1.245 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.276 mW/g



**Section 13.5 Table 20**  
**Assessment at the Body with Body worn PMLN7008A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/1/2011 11:09:56 AM, Date/Time: 7/1/2011 11:22:12 AM, Date/Time: 7/1/2011 11:25:00 AM,  
 Date/Time: 7/1/2011 11:31:09 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110701-07  
 Phantom# / Tissue Temp.: OVAL1018 / 21.4 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN7008A / PMMN4024A  
 Start Power: 5.96 (W)

Note:

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

Reported SAR: 1.23 mW/g (1g); 0.781 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.286 V/m; Power Drift = -0.49 dB

Motorola Fast SAR: SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.857 mW/g

Maximum value of SAR (interpolated) = 1.293 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 35.286 V/m; Power Drift = -0.54 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.849 mW/g

Maximum value of SAR (interpolated) = 1.365 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

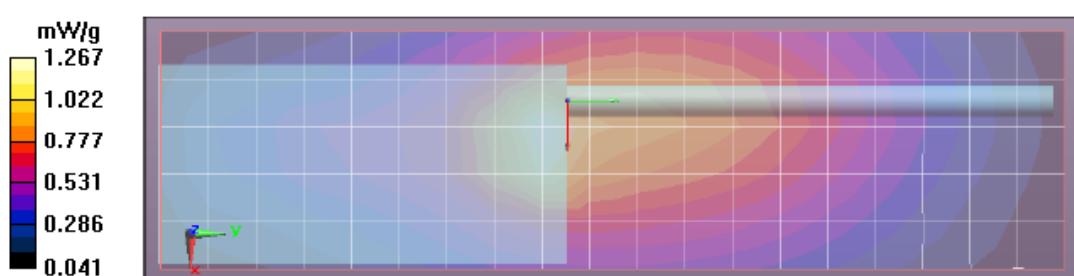
Reference Value = 35.286 V/m; Power Drift = -0.70 dB

Peak SAR (extrapolated) = 2.270 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.777 mW/g

Maximum value of SAR (measured) = 1.257 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.277 mW/g



**Section 13.6 Table 21**  
**Assessment at the Body with Body worn PMLN5844A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/1/2011 1:10:33 PM, Date/Time: 7/1/2011 1:22:49 PM, Date/Time: 7/1/2011 1:25:36 PM,  
 Date/Time: 7/1/2011 1:31:41 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110701-10  
 Phantom# / Tissue Temp.: OVAL1018 / 21.2 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5844A / PMMN4024A  
 Start Power: 6.24 (W)

Note:

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

Reported SAR: 0.938 mW/g (1g); 0.707 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.133 V/m; Power Drift = -0.51 dB

Motorola Fast SAR: SAR(1 g) = 0.994 mW/g; SAR(10 g) = 0.753 mW/g

Maximum value of SAR (interpolated) = 1.040 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 36.133 V/m; Power Drift = -0.61 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 0.965 mW/g; SAR(10 g) = 0.728 mW/g

Maximum value of SAR (interpolated) = 1.006 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 36.133 V/m; Power Drift = -0.76 dB

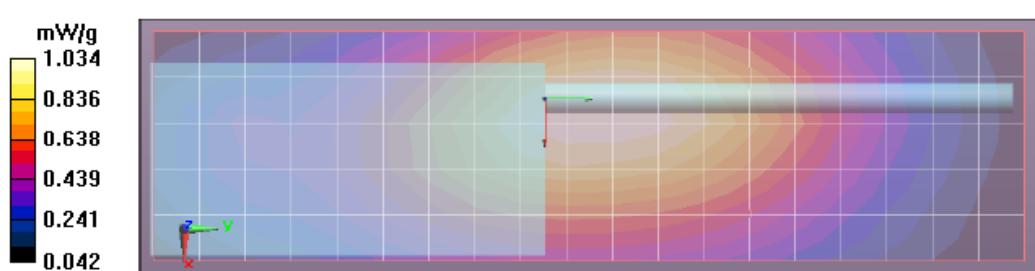
Peak SAR (extrapolated) = 1.270 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.703 mW/g

Maximum value of SAR (measured) = 0.970 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 0.954 mW/g



**Section 13.6 Table 22**  
**Assessment at the Body with Body worn PMLN5844A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/1/2011 4:04:12 PM, Date/Time: 7/1/2011 4:16:27 PM, Date/Time: 7/1/2011 4:19:14 PM,  
 Date/Time: 7/1/2011 4:25:19 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110701-14  
 Phantom# / Tissue Temp.: OVAL1018 / 20.9 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: PMLN5844A / PMMN4024A  
 Start Power: 6.27 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.933 mW/g (1g); 0.705 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.314 V/m; Power Drift = -0.52 dB

Motorola Fast SAR: SAR(1 g) = 0.988 mW/g; SAR(10 g) = 0.748 mW/g

Maximum value of SAR (interpolated) = 1.033 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 36.314 V/m; Power Drift = -0.59 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.724 mW/g

Maximum value of SAR (interpolated) = 1.002 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

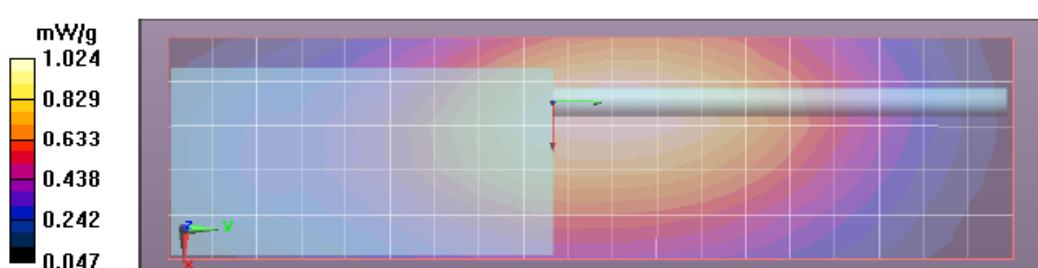
Reference Value = 36.314 V/m; Power Drift = -0.75 dB

Peak SAR (extrapolated) = 1.261 W/kg

SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.701 mW/g

Maximum value of SAR (measured) = 0.968 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.956 mW/g



**Section 13.7 Table 23**  
**Assessment at the Body with Body worn PMLN5842A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/5/2011 10:38:31 AM, Date/Time: 7/5/2011 10:50:47 AM, Date/Time: 7/5/2011 10:53:34 AM,  
 Date/Time: 7/5/2011 10:59:41 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110705-05  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5842A / PMMN4024A  
 Start Power: 6.23 (W)

Note:

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

Reported SAR: 0.237 mW/g (1g); 0.185 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 63.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 18.767 V/m; Power Drift = -1.30 dB

Motorola Fast SAR: SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (interpolated) = 0.299 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 18.767 V/m; Power Drift = -1.40 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (interpolated) = 0.249 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

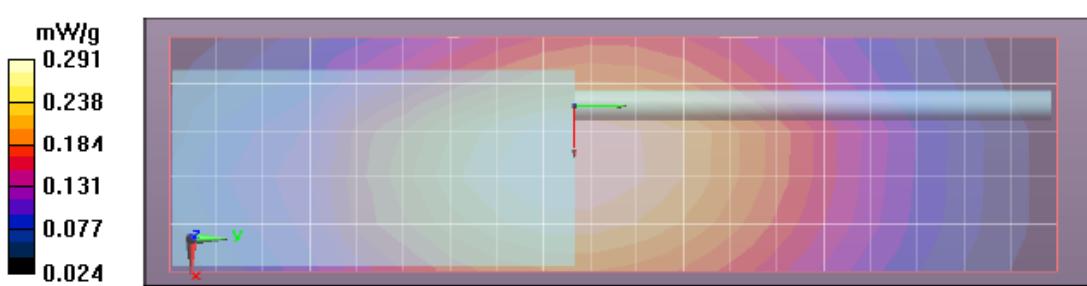
Reference Value = 18.767 V/m; Power Drift = -1.50 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.244 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.240 mW/g



**Section 13.7 Table 24**  
**Assessment at the Body with Body worn PMLN5842A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/5/2011 1:35:33 PM, Date/Time: 7/5/2011 1:47:51 PM, Date/Time: 7/5/2011 1:50:38 PM,  
 Date/Time: 7/5/2011 1:56:43 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110705-10  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: PMLN5842A / PMMN4024A  
 Start Power: 6.24 (W)

Note:

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

Reported SAR: 0.226 mW/g (1g); 0.176 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 63.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 18.084 V/m; Power Drift = -1.30 dB

Motorola Fast SAR: SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (interpolated) = 0.254 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 18.084 V/m; Power Drift = -1.40 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (interpolated) = 0.238 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 18.084 V/m; Power Drift = -1.50 dB

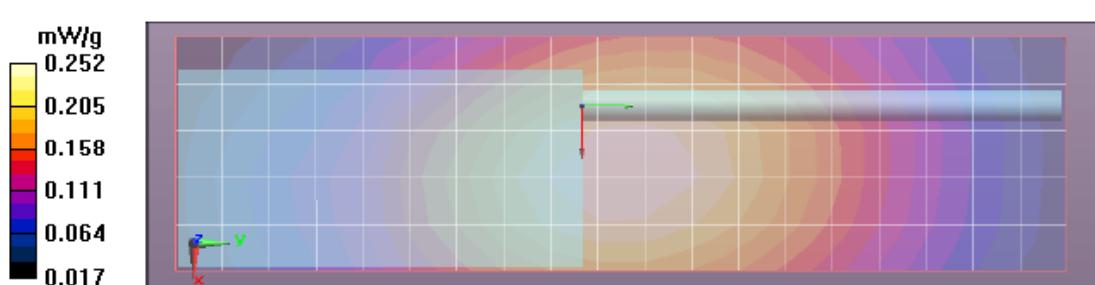
Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.232 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 0.231 mW/g



**Section 13.8 Table 25**  
**Assessment at the Body with Body worn HLN6602A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/6/2011 8:01:40 AM, Date/Time: 7/6/2011 8:11:37 AM, Date/Time: 7/6/2011 8:14:28 AM,  
 Date/Time: 7/6/2011 8:20:35 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110706-03  
 Phantom# / Tissue Temp.: OVAL1018 / 21.4 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 150.8000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: HLN6602A / PMMN4024A  
 Start Power: 6.11 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.06 mW/g (1g); 0.655 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)  
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.8$  mho/m;  $\epsilon_r = 64$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.445 V/m; Power Drift = -0.53 dB  
 Motorola Fast SAR: SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.799 mW/g  
 Maximum value of SAR (interpolated) = 1.204 mW/g

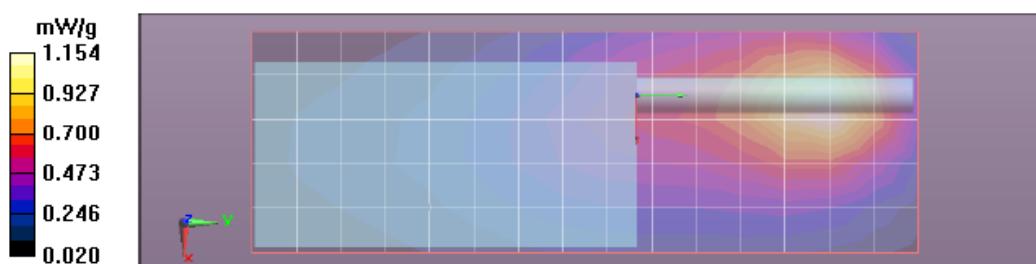
**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 34.445 V/m; Power Drift = -0.72 dB  
 Peak SAR (extrapolated) = Not Specified W/kg  
 Motorola Fast SAR: SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.760 mW/g  
 Maximum value of SAR (interpolated) = 1.139 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.445 V/m; Power Drift = -0.80 dB  
 Peak SAR (extrapolated) = 1.910 W/kg  
 SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.651 mW/g  
 Maximum value of SAR (measured) = 1.115 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.086 mW/g



**Section 13.8 Table 26**  
**Assessment at the Body with Body worn HLN6602A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/6/2011 9:52:24 AM, Date/Time: 7/6/2011 10:02:21 AM, Date/Time: 7/6/2011 10:05:10 AM,  
 Date/Time: 7/6/2011 10:11:18 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110706-06  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 150.8000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: HLN6602A / PMMN4024A  
 Start Power: 6.16 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.14 mW/g (1g); 0.680 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.8$  mho/m;  $\epsilon_r = 64$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 33.799 V/m; Power Drift = -0.60 dB

Motorola Fast SAR: SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.848 mW/g

Maximum value of SAR (interpolated) = 1.296 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 33.799 V/m; Power Drift = -0.69 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.810 mW/g

Maximum value of SAR (interpolated) = 1.225 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

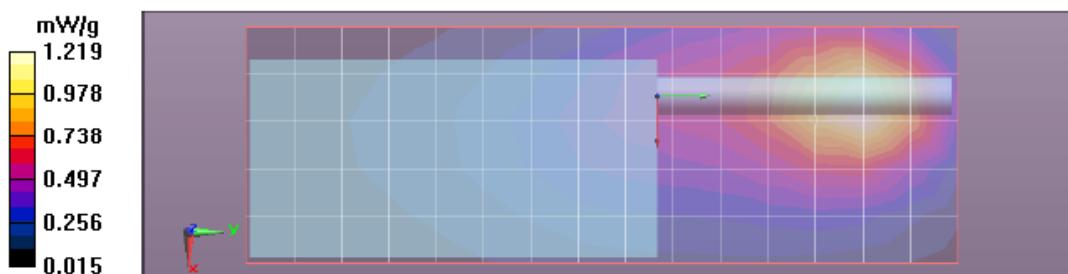
Reference Value = 33.799 V/m; Power Drift = -0.74 dB

Peak SAR (extrapolated) = 2.166 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.676 mW/g

Maximum value of SAR (measured) = 1.194 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.176 mW/g



**Section 13.9 Table 27**  
**Assessment at the Body with Body worn PMLN5838A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/6/2011 1:10:08 PM, Date/Time: 7/6/2011 1:22:32 PM, Date/Time: 7/6/2011 1:25:20 PM,  
 Date/Time: 7/6/2011 1:31:32 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110706-11  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5838A / PMMN4024A  
 Start Power: 6.18 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.682 mW/g (1g); 0.391 mW/g (10g)

Comments: Full Scan

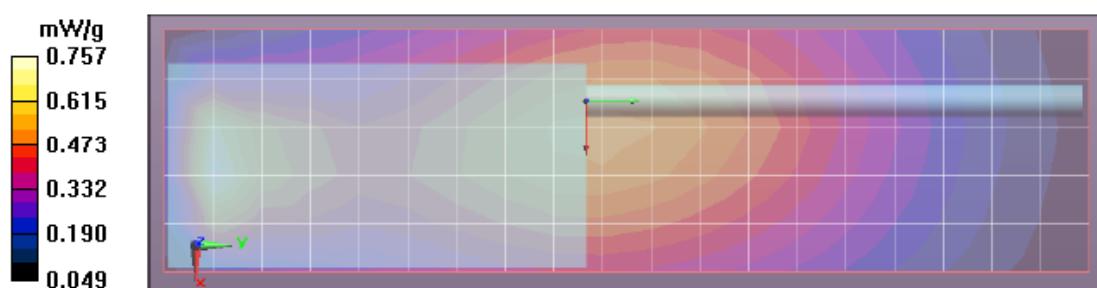
Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)  
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.81$  mho/m;  $\epsilon_r = 63.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 27.426 V/m; Power Drift = -0.53 dB  
**Motorola Fast SAR:** SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.510 mW/g  
 Maximum value of SAR (interpolated) = 0.860 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=1mm  
 Reference Value = 27.426 V/m; Power Drift = -0.65 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR:** SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.467 mW/g  
 Maximum value of SAR (interpolated) = 0.800 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=5mm  
 Reference Value = 27.426 V/m; Power Drift = -0.76 dB  
 Peak SAR (extrapolated) = 1.524 W/kg  
 SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.389 mW/g  
 Maximum value of SAR (measured) = 0.701 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,  
 dz=10mm Maximum value of SAR (measured) = 0.697 mW/g



**Section 13.9 Table 28**  
**Assessment at the Body with Body worn PMLN5838A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/7/2011 7:21:57 AM, Date/Time: 7/7/2011 7:34:14 AM, Date/Time: 7/7/2011 7:37:04 AM,  
 Date/Time: 7/7/2011 7:45:50 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110707-02  
 Phantom# / Tissue Temp.: OVAL1018 / 21.5 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A / PMMN4024A  
 Start Power: 5.92 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.943 mW/g (1g); 0.525 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.81$  mho/m;  $\epsilon_r = 63$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.468 V/m; Power Drift = -0.61 dB

Motorola Fast SAR: SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (interpolated) = 0.979 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 26.468 V/m; Power Drift = -0.66 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.636 mW/g

Maximum value of SAR (interpolated) = 1.034 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

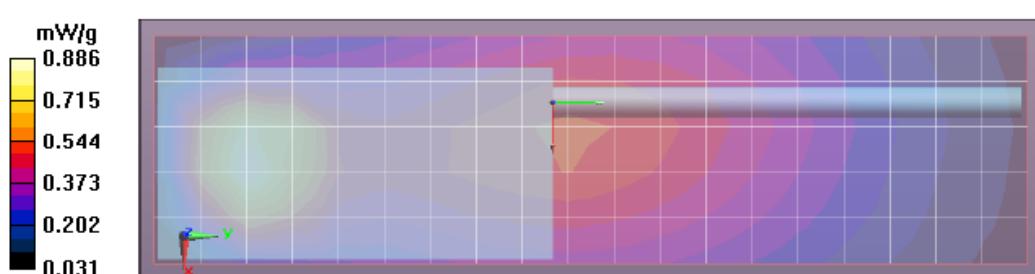
Reference Value = 26.468 V/m; Power Drift = -0.83 dB

Peak SAR (extrapolated) = 2.192 W/kg

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.522 mW/g

Maximum value of SAR (measured) = 1.009 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.984 mW/g



**Section 13.10 Table 29**  
**Assessment of wireless BT configuration**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/7/2011 9:04:04 AM, Date/Time: 7/7/2011 9:13:59 AM, Date/Time: 7/7/2011 9:16:48 AM,  
 Date/Time: 7/7/2011 9:22:55 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110707-03  
 Phantom# / Tissue Temp.: OVAL1018 / 21.2 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 150.8000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: RLN4570A / None  
 Start Power: 6.10 (W)

**Note:**

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

Reported SAR: 2.07 mW/g (1g); 1.26 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.79$  mho/m;  $\epsilon_r = 63.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 51.181 V/m; Power Drift = -0.72 dB

Motorola Fast SAR: SAR(1 g) = 2.23 mW/g; SAR(10 g) = 1.55 mW/g

Maximum value of SAR (interpolated) = 2.418 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 51.181 V/m; Power Drift = -0.87 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.5 mW/g

Maximum value of SAR (interpolated) = 2.280 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 51.181 V/m; Power Drift = -0.97 dB

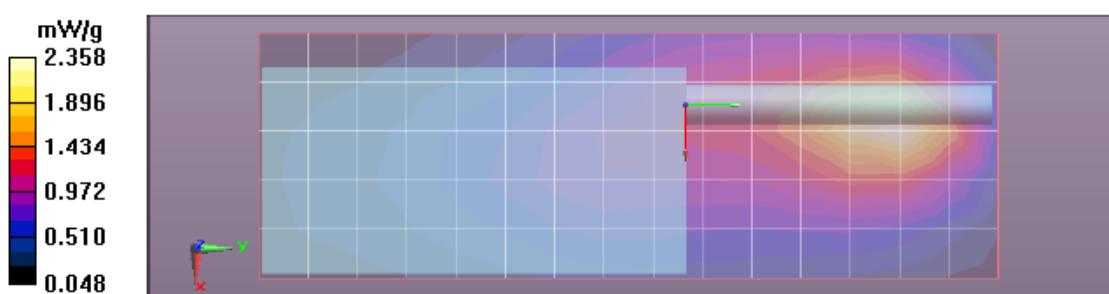
Peak SAR (extrapolated) = 3.893 W/kg

SAR(1 g) = 2.05 mW/g; SAR(10 g) = 1.25 mW/g

Maximum value of SAR (measured) = 2.187 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 2.128 mW/g



**Section 13.11 Table 30**  
**Assessment of accessory PMLN5842A with carry strap NTN5243A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/11/2011 12:06:21 PM, Date/Time: 7/11/2011 12:18:56 PM, Date/Time: 7/11/2011 12:21:50 PM,  
 Date/Time: 7/11/2011 12:29:21 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110711-06  
 Phantom# / Tissue Temp.: OVAL1018 / 21.4 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5842A/NTN5243A (w/out BL) / None  
 Start Power: 6.14 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 2.52 mW/g (1g); 1.76 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.81$  mho/m;  $\epsilon_r = 61.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 60.294 V/m; Power Drift = -0.55 dB

Motorola Fast SAR: SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.89 mW/g

Maximum value of SAR (interpolated) = 2.630 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

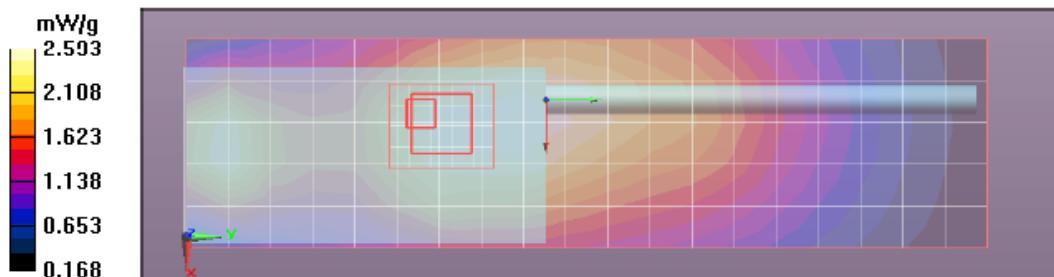
Reference Value = 60.294 V/m; Power Drift = -0.79 dB

Peak SAR (extrapolated) = 4.385 W/kg

SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.76 mW/g

Maximum value of SAR (measured) = 2.647 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.685 mW/g



**Section 13.11 Table 31**  
**Assessment of accessory PMLN5842A with carry strap NTN5243A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/12/2011 7:36:13 AM, Date/Time: 7/12/2011 7:48:50 AM, Date/Time: 7/12/2011 7:51:43 AM,  
 Date/Time: 7/12/2011 7:58:02 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110712-02  
 Phantom# / Tissue Temp.: OVAL1018 / 21.5 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5842A/NTN5243A (w/out BL) / None  
 Start Power: 5.98 (W)

Note:

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

Reported SAR: 3.27 mW/g (1g); 1.85 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 61.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 62.631 V/m; Power Drift = -0.71 dB

Motorola Fast SAR: SAR(1 g) = 3.35 mW/g; SAR(10 g) = 2.3 mW/g

Maximum value of SAR (interpolated) = 3.676 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 62.631 V/m; Power Drift = -0.77 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 3.3 mW/g; SAR(10 g) = 2.23 mW/g

Maximum value of SAR (interpolated) = 3.678 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 62.631 V/m; Power Drift = -0.89 dB

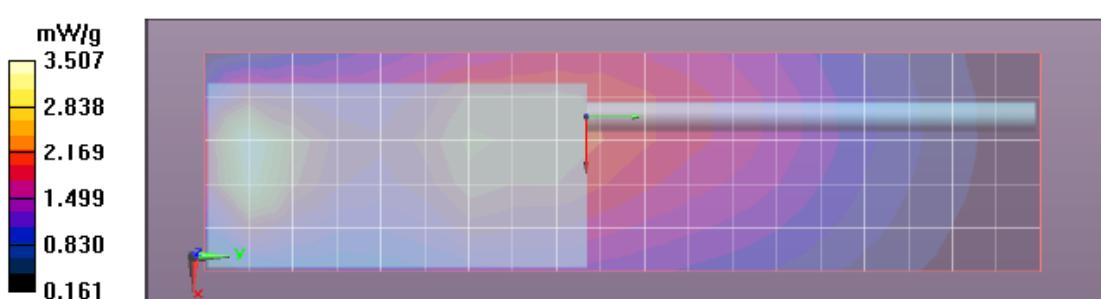
Peak SAR (extrapolated) = 7.194 W/kg

SAR(1 g) = 3.27 mW/g; SAR(10 g) = 1.85 mW/g

Maximum value of SAR (measured) = 3.400 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 3.457 mW/g



**Section 13.12 Table 32**  
**Assessment of accessory PMLN5844A with carry strap NTN5243A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/12/2011 11:03:43 AM, Date/Time: 7/12/2011 11:13:55 AM, Date/Time: 7/12/2011 11:22:57 AM,  
 Date/Time: 7/12/2011 11:42:13 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110712-08  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4121A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5844A/NTN5243A / None  
 Start Power: 6.18 (W)

Note:

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

Reported SAR: 2.17 mW/g (1g); 1.51 mW/g (10g)

Comments: Shortened Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 61.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 56.642 V/m; Power Drift = -1.90 dB

Motorola Fast SAR: SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.25 mW/g

Maximum value of SAR (interpolated) = 1.727 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 56.642 V/m; Power Drift = -2.00 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 1.59 mW/g; SAR(10 g) = 1.19 mW/g

Maximum value of SAR (interpolated) = 1.665 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan 2 (8x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

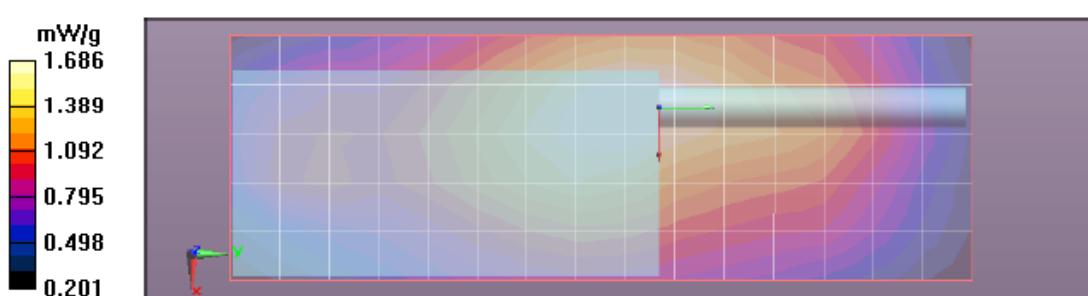
Reference Value = 60.573 V/m; Power Drift = -2.50 dB

Peak SAR (extrapolated) = 3.207 W/kg

SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (measured) = 2.580 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.589 mW/g



**Section 13.12 Table 33**  
**Assessment of accessory PMLN5844A with carry strap NTN5243A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/12/2011 12:45:34 PM, Date/Time: 7/12/2011 12:55:43 PM, Date/Time: 7/12/2011 12:58:36 PM,  
 Date/Time: 7/12/2011 1:04:49 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110712-10  
 Phantom# / Tissue Temp.: OVAL1018 / 21.2 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4121A / 167.0000 (MHz)  
 Battery: PMNN4406A  
 Carry Acc. / Cable Acc.: PMLN5844A/NTN5243A / None  
 Start Power: 6.18 (W)

Note:

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

Reported SAR: 1.59 mW/g (1g); 1.19 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 61.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 57.300 V/m; Power Drift = -1.90 dB

Motorola Fast SAR: SAR(1 g) = 1.72 mW/g; SAR(10 g) = 1.3 mW/g

Maximum value of SAR (interpolated) = 1.802 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 57.300 V/m; Power Drift = -2.10 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 1.64 mW/g; SAR(10 g) = 1.23 mW/g

Maximum value of SAR (interpolated) = 1.720 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

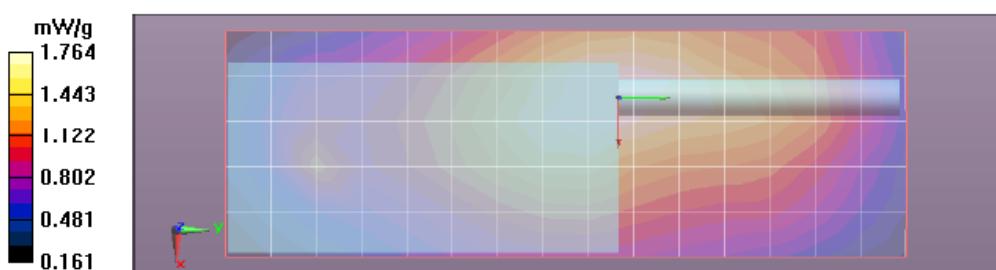
Reference Value = 57.300 V/m; Power Drift = -2.20 dB

Peak SAR (extrapolated) = 2.190 W/kg

SAR(1 g) = 1.59 mW/g; SAR(10 g) = 1.19 mW/g

Maximum value of SAR (measured) = 1.671 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.633 mW/g



**Section 13.13 Table 34**  
**Assessment of accessory PMLN5838A with carry strap NTN5243A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/12/2011 4:24:35 PM, Date/Time: 7/12/2011 4:37:10 PM, Date/Time: 7/12/2011 4:40:04 PM,  
 Date/Time: 7/12/2011 4:46:21 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110712-15  
 Phantom# / Tissue Temp.: OVAL1018 / 21.1 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 6.12 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 3.25 mW/g (1g); 1.88 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

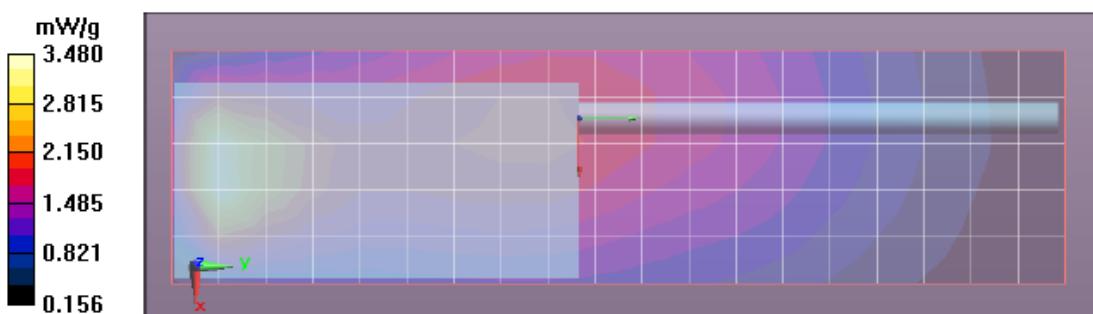
Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.82$  mho/m;  $\epsilon_r = 61.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 51.312 V/m; Power Drift = -0.38 dB  
**Motorola Fast SAR:** SAR(1 g) = 3.46 mW/g; SAR(10 g) = 2.36 mW/g  
 Maximum value of SAR (interpolated) = 3.817 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=1mm  
 Reference Value = 51.312 V/m; Power Drift = -0.42 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR:** SAR(1 g) = 3.31 mW/g; SAR(10 g) = 2.24 mW/g  
 Maximum value of SAR (interpolated) = 3.793 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=5mm  
 Reference Value = 51.312 V/m; Power Drift = -0.50 dB  
 Peak SAR (extrapolated) = 7.154 W/kg  
 SAR(1 g) = 3.25 mW/g; SAR(10 g) = 1.88 mW/g  
 Maximum value of SAR (measured) = 3.419 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,  
 dz=10mm Maximum value of SAR (measured) = 3.381 mW/g



**Section 13.13 Table 35**  
**Assessment of accessory PMLN5838A with carry strap NTN5243A (additional batteries)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/13/2011 10:22:31 AM, Date/Time: 7/13/2011 10:35:16 AM, Date/Time: 7/13/2011 10:38:10 AM,  
 Date/Time: 7/13/2011 10:44:26 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110713-07  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4118A / 167.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 5.89 (W)

**Note:**

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

Reported SAR: 3.93 mW/g (1g); 2.24 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 167$  MHz;  $\sigma = 0.79$  mho/m;  $\epsilon_r = 60.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 55.494 V/m; Power Drift = -0.51 dB

**Motorola Fast SAR:** SAR(1 g) = 4.06 mW/g; SAR(10 g) = 2.88 mW/g

Maximum value of SAR (interpolated) = 4.474 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 55.494 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

**Motorola Fast SAR:** SAR(1 g) = 3.98 mW/g; SAR(10 g) = 2.75 mW/g

Maximum value of SAR (interpolated) = 4.380 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 55.494 V/m; Power Drift = -0.68 dB

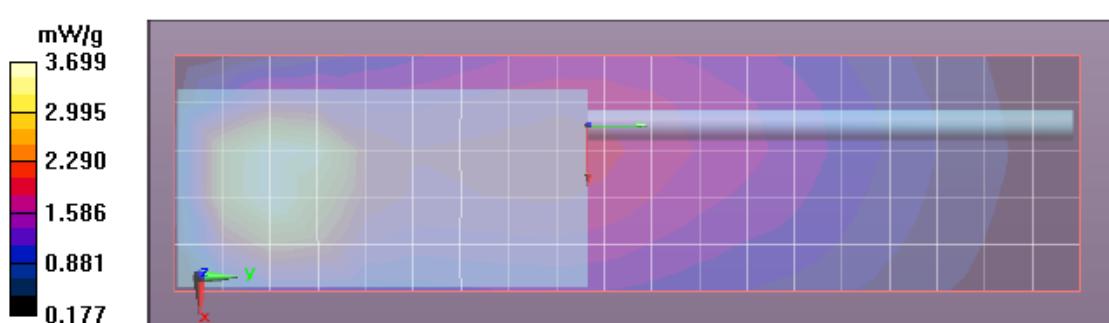
Peak SAR (extrapolated) = 8.699 W/kg

SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.24 mW/g

Maximum value of SAR (measured) = 4.240 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 4.151 mW/g



## Section 13.15 Table 41 Assessment at the Face

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/7/2011 11:52:03 AM, Date/Time: 7/7/2011 12:05:13 PM, Date/Time: 7/7/2011 12:08:11 PM,  
Date/Time: 7/7/2011 12:14:25 PM

Robot# / Run#: DASY5-FL-2 / JsT-Face-110707-06  
Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
DUT Model# / Serial#: PMUD2904A / 871TMK0074  
Antenna / TX Freq.: PMAD4117A / 150.8000 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 5.95 (W)

Note:  
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.46 mW/g (1g); 1.11 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.76$  mho/m;  $\epsilon_r = 53.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 45.866 V/m; Power Drift = -0.30 dB

Motorola Fast SAR: SAR(1 g) = 1.5 mW/g; SAR(10 g) = 1.15 mW/g

Maximum value of SAR (interpolated) = 1.573 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 45.866 V/m; Power Drift = -0.35 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.46 mW/g; SAR(10 g) = 1.11 mW/g

Maximum value of SAR (interpolated) = 1.526 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

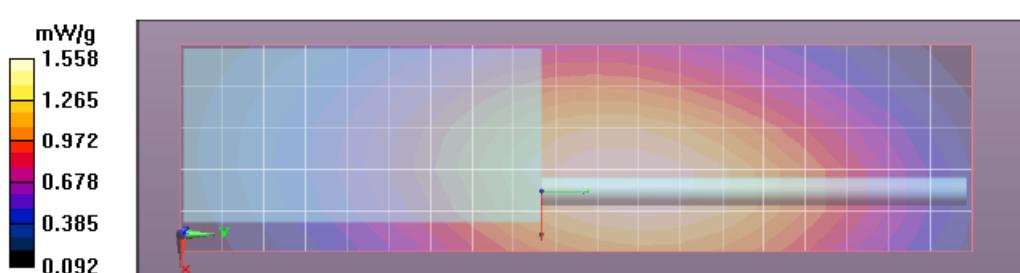
Reference Value = 45.866 V/m; Power Drift = -0.41 dB

Peak SAR (extrapolated) = 1.930 W/kg

SAR(1 g) = 1.45 mW/g; SAR(10 g) = 1.11 mW/g

Maximum value of SAR (measured) = 1.506 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.491 mW/g



## Section 13.15 Table 42

### Assessment at the Face (additional batteries)

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/7/2011 3:37:50 PM, Date/Time: 7/7/2011 3:50:57 PM, Date/Time: 7/7/2011 3:53:57 PM,  
Date/Time: 7/7/2011 4:00:12 PM

Robot# / Run#: DASY5-FL-2 / JsT-Face-110707-10  
 Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4117A / 150.8000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 6.10 (W)

Note:

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

Reported SAR: 1.46 mW/g (1g); 1.12 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 151$  MHz;  $\sigma = 0.76$  mho/m;  $\epsilon_r = 53.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 46.255 V/m; Power Drift = -0.34 dB

Motorola Fast SAR: SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.17 mW/g

Maximum value of SAR (interpolated) = 1.604 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 46.255 V/m; Power Drift = -0.39 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.47 mW/g; SAR(10 g) = 1.12 mW/g

Maximum value of SAR (interpolated) = 1.540 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 46.255 V/m; Power Drift = -0.49 dB

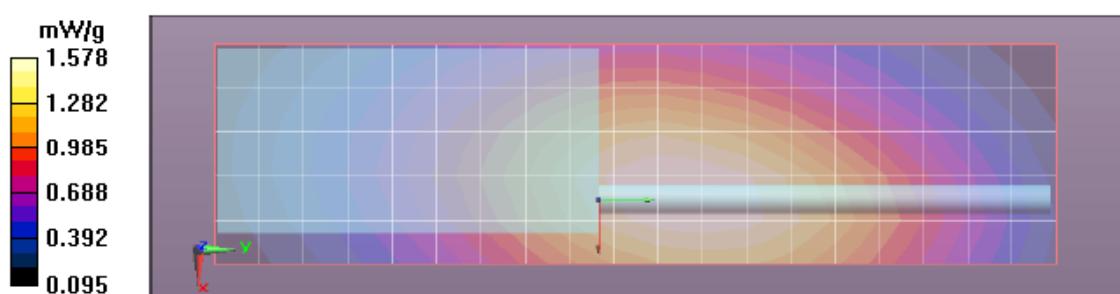
Peak SAR (extrapolated) = 1.933 W/kg

SAR(1 g) = 1.45 mW/g; SAR(10 g) = 1.12 mW/g

Maximum value of SAR (measured) = 1.507 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm,

dz=10mm Maximum value of SAR (measured) = 1.489 mW/g



## Section 13.17 Table 47

### Assessment of BT band

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/20/2011 11:48:31 AM, Date/Time: 7/20/2011 12:00:39 PM, Date/Time: 7/20/2011 12:03:25 PM,  
Date/Time: 7/20/2011 12:12:10 PM

Robot# / Run#: DASY5-FL-2 / Jst-Ab-110720-02  
Phantom# / Tissue Temp.: OVAL1022 / 21.7 (C)  
DUT Model# / Serial#: PMUD2904A / 871TMK0074  
Antenna / TX Freq.: BT and PMAD4118A / 2441 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
Start Power: 0.010 (W)

Note:  
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 0.00456 mW/g (1g); 0.00246 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(4.14, 4.14, 4.14)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 2441$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 0.815 V/m; Power Drift = -1.60 dB

Motorola Fast SAR: SAR(1 g) = 0.00566 mW/g; SAR(10 g) = 0.00286 mW/g

Maximum value of SAR (interpolated) = 0.00727 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 0.815 V/m; Power Drift = -0.98 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 0.00435 mW/g; SAR(10 g) = 0.00226 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 (interpolated) = 0.00489 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

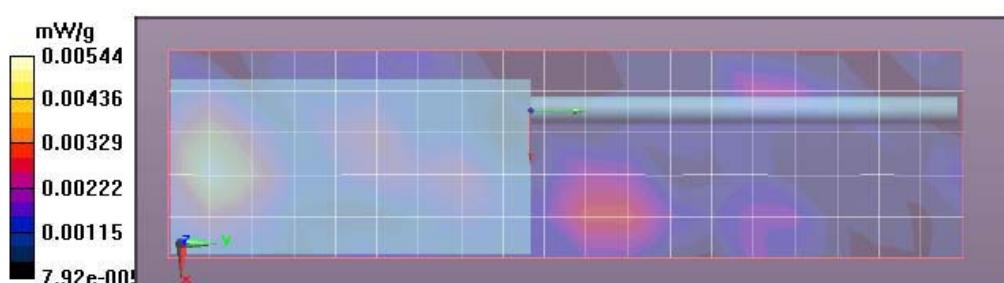
Reference Value = 0.815 V/m; Power Drift = -1.50 dB

Peak SAR (extrapolated) = 0.00826 W/kg

SAR(1 g) = 0.00451 mW/g; SAR(10 g) = 0.00244 mW/g

Maximum value of SAR (measured) = 0.00639 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.00428 mW/g



**APPENDIX G**  
**DUT Scans Outside Part 90 (136 – 174 MHz)**  
Data enclosed for this appendix is not applicable for FCC part 90

**Section 13.14 Table 36**  
**Outside FCC Part 90 at the body**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/14/2011 7:15:00 AM, Date/Time: 7/14/2011 7:27:45 AM, Date/Time: 7/14/2011 7:30:40 AM,  
 Date/Time: 7/14/2011 7:36:58 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110714-02  
 Phantom# / Tissue Temp.: OVAL1018 / 21.4 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4116A / 146.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 5.89 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 2.50 mW/g (1g); 1.39 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

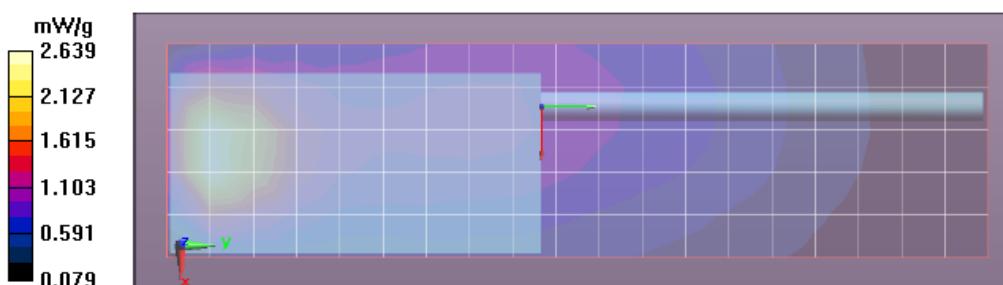
Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)  
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 146$  MHz;  $\sigma = 0.77$  mho/m;  $\epsilon_r = 60.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 38.367 V/m; Power Drift = -0.21 dB  
**Motorola Fast SAR:** SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.83 mW/g  
 Maximum value of SAR (interpolated) = 2.967 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 38.367 V/m; Power Drift = -0.25 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR:** SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.69 mW/g  
 Maximum value of SAR (interpolated) = 2.898 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 38.367 V/m; Power Drift = -0.36 dB  
 Peak SAR (extrapolated) = 5.692 W/kg  
**SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.39 mW/g**  
 Maximum value of SAR (measured) = 2.638 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.701 mW/g



**Section 13.14 Table 37**  
**Outside FCC Part 90 at the body**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/13/2011 2:02:29 PM, Date/Time: 7/13/2011 2:15:18 PM, Date/Time: 7/13/2011 2:18:12 PM,  
 Date/Time: 7/13/2011 2:27:07 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110713-09  
 Phantom# / Tissue Temp.: OVAL1018 / 21.0 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4117A / 141.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 5.88 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 2.35 mW/g (1g); 1.34 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 141$  MHz;  $\sigma = 0.78$  mho/m;  $\epsilon_r = 61.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 42.472 V/m; Power Drift = -0.34 dB

**Motorola Fast SAR:** SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.59 mW/g

Maximum value of SAR (interpolated) = 2.543 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 42.472 V/m; Power Drift = -0.31 dB

Peak SAR (extrapolated) = Not Specified W/kg

**Motorola Fast SAR:** SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.59 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 (interpolated) = 2.512 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

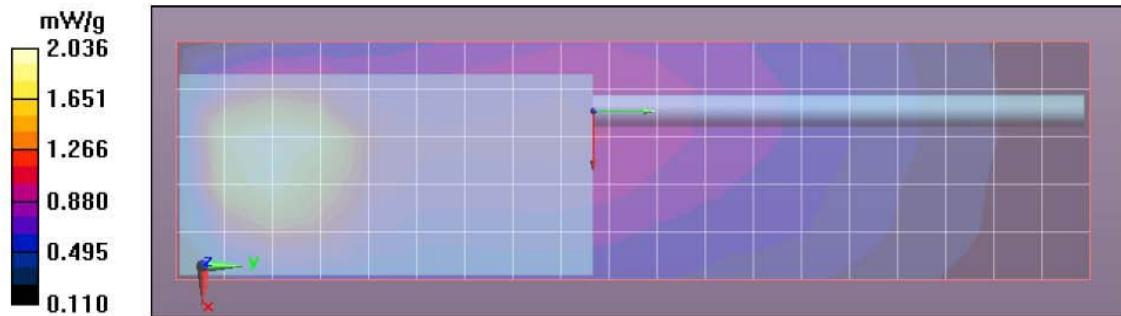
Reference Value = 42.472 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 5.212 W/kg

**SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.34 mW/g**

Maximum value of SAR (measured) = 2.499 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.463 mW/g



**Section 13.14 Table 38**  
**Outside FCC Part 90 at the body**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/14/2011 9:07:03 AM, Date/Time: 7/14/2011 9:17:23 AM, Date/Time: 7/14/2011 9:20:18 AM,  
 Date/Time: 7/14/2011 9:29:13 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110714-05  
 Phantom# / Tissue Temp.: OVAL1018 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 148.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
 Start Power: 5.89 (W)

Note:

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

Reported SAR: 1.37 mW/g (1g); 0.797 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 148$  MHz;  $\sigma = 0.77$  mho/m;  $\epsilon_r = 60.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.565 V/m; Power Drift = -0.34 dB

**Motorola Fast SAR:** SAR(1 g) = 1.43 mW/g; SAR(10 g) = 1 mW/g

Maximum value of SAR (interpolated) = 1.588 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 36.565 V/m; Power Drift = -0.42 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.960 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 (interpolated) = 1.494 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

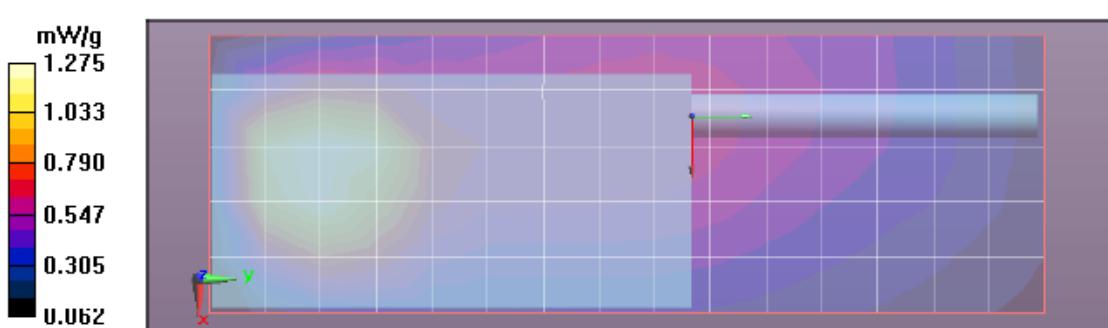
Reference Value = 36.565 V/m; Power Drift = -0.56 dB

Peak SAR (extrapolated) = 2.986 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.796 mW/g

Maximum value of SAR (measured) = 1.448 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.417 mW/g



**Section 13.14 Table 39  
Outside FCC Part 90 at the body**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/14/2011 10:30:41 AM, Date/Time: 7/14/2011 10:41:03 AM, Date/Time: 7/14/2011 10:43:59 AM,  
Date/Time: 7/14/2011 10:52:52 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110714-07  
Phantom# / Tissue Temp.: OVAL1018 / 21.2 (C)  
DUT Model# / Serial#: PMUD2904A / 871TMK0074  
Antenna / TX Freq.: PMAD4119A / 141.0000 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: PMLN5838A/NTN5243A / None  
Start Power: 5.93 (W)

Note:

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

Reported SAR: 1.67 mW/g (1g); 0.983 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom.

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.5, 7.5, 7.5)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 141$  MHz;  $\sigma = 0.77$  mho/m;  $\epsilon_r = 61.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 45.090 V/m; Power Drift = -1.10 dB

Motorola Fast SAR: SAR(1 g) = 1.86 mW/g; SAR(10 g) = 1.3 mW/g

Maximum value of SAR (interpolated) = 2.093 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 45.090 V/m; Power Drift = -1.10 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.18 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 (interpolated) = 1.826 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

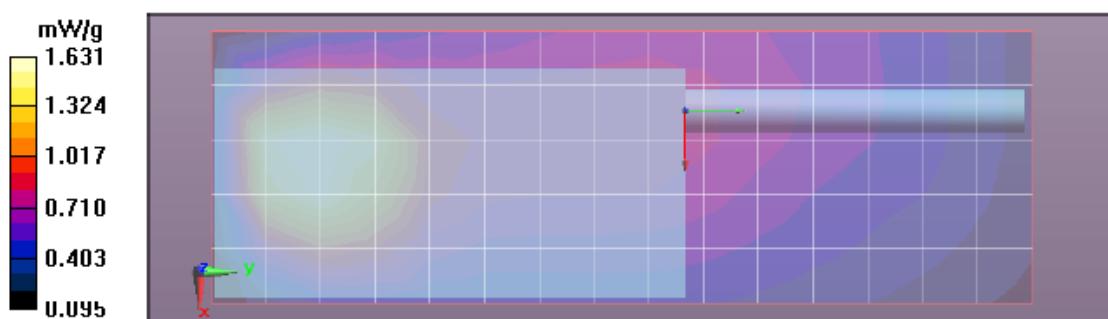
Reference Value = 45.090 V/m; Power Drift = -1.30 dB

Peak SAR (extrapolated) = 3.629 W/kg

SAR(1 g) = 1.66 mW/g; SAR(10 g) = 0.982 mW/g

Maximum value of SAR (measured) = 1.761 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.697 mW/g



**Section 13.16 Table 43**  
**Outside FCC Part 90 at the face**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/14/2011 11:08:15 PM, Date/Time: 7/14/2011 11:23:35 PM, Date/Time: 7/14/2011 11:26:42 PM,  
 Date/Time: 7/14/2011 11:34:02 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110714-16  
 Phantom# / Tissue Temp.: OVAL1109 / 21.0 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4116A / 146.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 5.89 (W)

Note:

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

Reported SAR: 1.32 mW/g (1g); 1.02 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 146$  MHz;  $\sigma = 0.75$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 39.773 V/m; Power Drift = 0.063 dB

Motorola Fast SAR: SAR(1 g) = 1.4 mW/g; SAR(10 g) = 1.06 mW/g

Maximum value of SAR (interpolated) = 1.461 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 39.773 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.33 mW/g; SAR(10 g) = 1.01 mW/g

Maximum value of SAR (interpolated) = 1.386 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.773 V/m; Power Drift = -0.20 dB

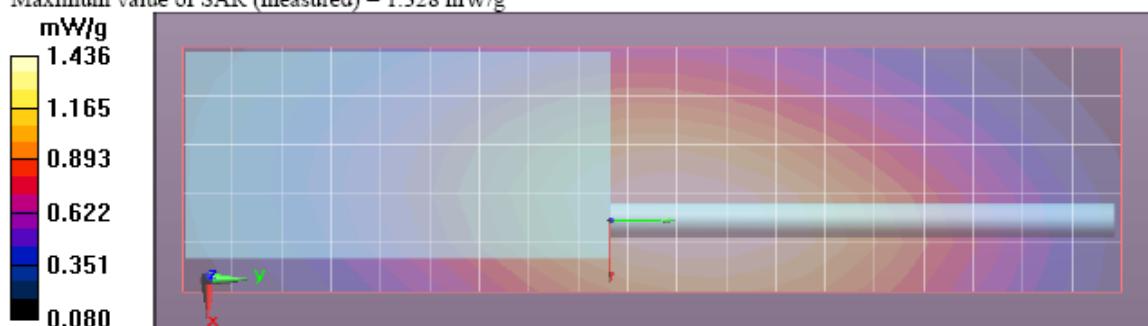
Peak SAR (extrapolated) = 1.741 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 1.02 mW/g

Maximum value of SAR (measured) = 1.365 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.328 mW/g



**Section 13.16 Table 44**  
**Outside FCC Part 90 at the face**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/15/2011 2:32:11 PM, Date/Time: 7/15/2011 2:44:12 PM, Date/Time: 7/15/2011 2:47:01 PM,  
 Date/Time: 7/15/2011 2:53:10 PM

Robot# / Run#: DASY5-FL-2 / HvH-Face-110715-08  
 Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2906A / 807TMK0042  
 Antenna / TX Freq.: PMAD4117A / 144.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 6.28 (W)

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 1.66 mW/g (1g); 1.28 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 144$  MHz;  $\sigma = 0.73$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 49.101 V/m; Power Drift = -0.46 dB

**Motorola Fast SAR:** SAR(1 g) = 1.72 mW/g; SAR(10 g) = 1.31 mW/g

Maximum value of SAR (interpolated) = 1.792 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 49.101 V/m; Power Drift = -0.56 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.27 mW/g

Maximum value of SAR (interpolated) = 1.742 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

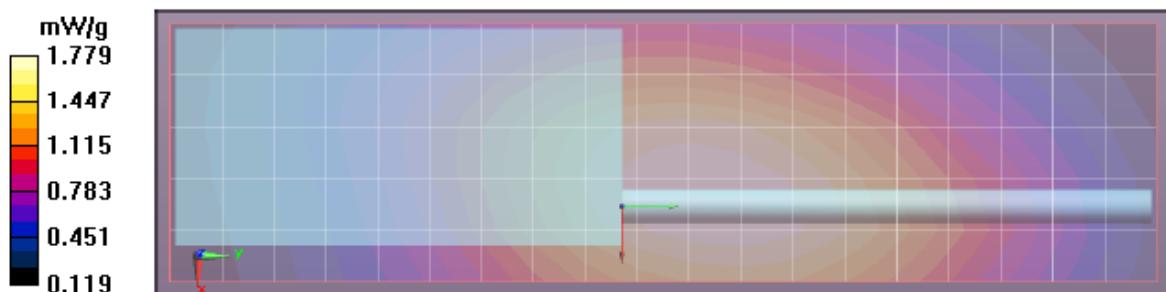
Reference Value = 49.101 V/m; Power Drift = -0.70 dB

Peak SAR (extrapolated) = 2.185 W/kg

SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (measured) = 1.717 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.684 mW/g



**Section 13.16 Table 45**  
**Outside FCC Part 90 at the face**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/15/2011 11:12:25 AM, Date/Time: 7/15/2011 11:22:05 AM, Date/Time: 7/15/2011 11:24:51 AM,  
 Date/Time: 7/15/2011 11:30:56 AM

Robot# / Run#: DASY5-FL-2 / HvH-Face-110715-03  
 Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4120A / 148.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 5.78 (W)

Note:

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

Reported SAR: 0.925 mW/g (1g); 0.705 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)

Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 148$  MHz;  $\sigma = 0.73$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.372 V/m; Power Drift = -0.23 dB

Motorola Fast SAR: SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.735 mW/g

Maximum value of SAR (interpolated) = 1.008 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 37.372 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 0.932 mW/g; SAR(10 g) = 0.708 mW/g

Maximum value of SAR (interpolated) = 0.971 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

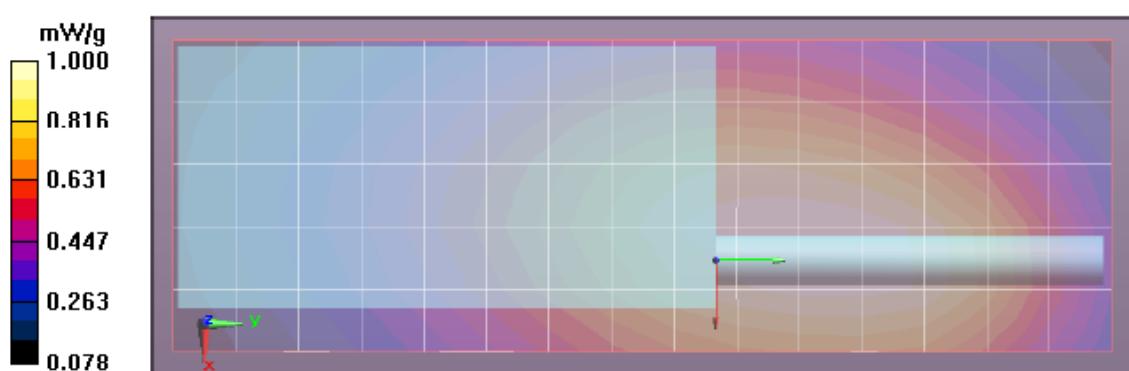
Reference Value = 37.372 V/m; Power Drift = -0.41 dB

Peak SAR (extrapolated) = 1.242 W/kg

SAR(1 g) = 0.918 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (measured) = 0.956 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.936 mW/g



**Section 13.16 Table 46**  
**Outside FCC Part 90 at the face**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 7/15/2011 12:25:56 PM, Date/Time: 7/15/2011 12:35:41 PM, Date/Time: 7/15/2011 12:38:27 PM,  
 Date/Time: 7/15/2011 12:47:11 PM

Robot# / Run#: DASY5-FL-2 / HvH-Face-110715-05  
 Phantom# / Tissue Temp.: OVAL1109 / 21.3 (C)  
 DUT Model# / Serial#: PMUD2904A / 871TMK0074  
 Antenna / TX Freq.: PMAD4119A / 141.0000 (MHz)  
 Battery: PMNN4407A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 5.83 (W)

Note:

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

Reported SAR: 1.18 mW/g (1g); 0.902 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3185, Calibrated: 11/25/2010, ConvF(7.8, 7.8, 7.8)  
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 141$  MHz;  $\sigma = 0.73$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 42.799 V/m; Power Drift = -0.29 dB

Motorola Fast SAR: SAR(1 g) = 1.33 mW/g; SAR(10 g) = 1.01 mW/g

Maximum value of SAR (interpolated) = 1.395 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 42.799 V/m; Power Drift = -0.38 dB

Peak SAR (extrapolated) = Not Specified W/kg

Motorola Fast SAR: SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.913 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 (interpolated) = 1.250 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

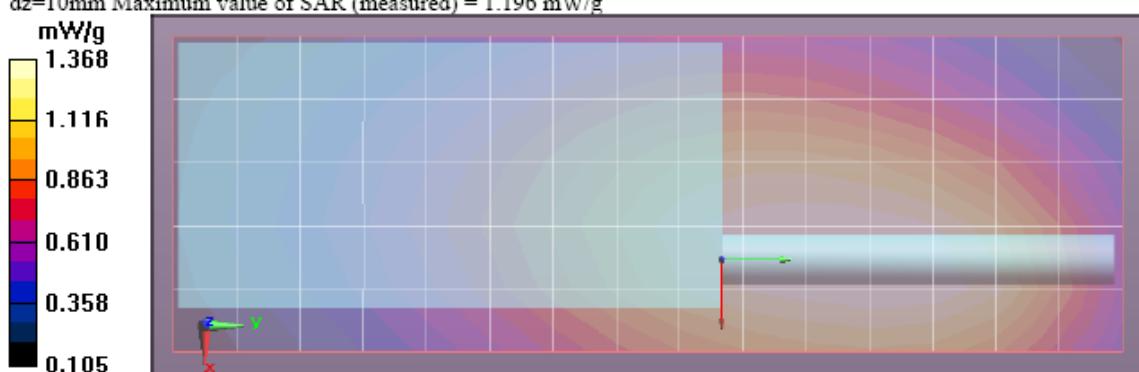
Reference Value = 42.799 V/m; Power Drift = -0.53 dB

Peak SAR (extrapolated) = 1.597 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.900 mW/g

Maximum value of SAR (measured) = 1.213 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 1.196 mW/g



## APPENDIX H

### DUT Supplementary Data (Power slump)

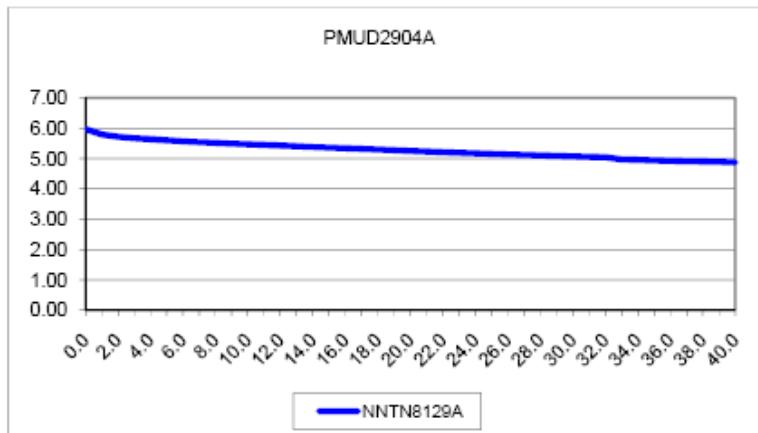
**Model # PMUD2904A**

**Serial # 871TMK0074**

<b>Battery</b>	NNTN8129A	<b>Transmit Mode</b>	CW
<b>Frequency</b>	167 MHz	<b>Audio Accessory</b>	None
<b>Date</b>	7/20/2011		

<b>TX TIME</b>	<b>Measured Power</b>
(minutes)	Watts

	NNTN8129A
0.0	5.96
1.0	5.79
2.0	5.72
3.0	5.67
4.0	5.64
5.0	5.60
6.0	5.57
7.0	5.54
8.0	5.52
9.0	5.49
10.0	5.47
11.0	5.45
12.0	5.43
13.0	5.40
14.0	5.38
15.0	5.36
16.0	5.34
17.0	5.32
18.0	5.30
19.0	5.28
20.0	5.25
21.0	5.23
22.0	5.21
23.0	5.19
24.0	5.17
25.0	5.16
26.0	5.14
27.0	5.12
28.0	5.10
29.0	5.09
30.0	5.07
31.0	5.05
32.0	5.04
33.0	4.97
34.0	4.96
35.0	4.94
36.0	4.92
37.0	4.91
38.0	4.90
39.0	4.89
40.0	4.87



## **Appendix I**

### **DUT Test Position Photos**

**Photos available in Exhibit 7B**

**Appendix J**  
**DUT and Body worn Accessory Photos**

**Photos available in Exhibit 7B**