



MOTOROLA SOLUTIONS



TESTING CERT # 2518.05

## DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Enterprise Mobility Solutions  
 EME Test Laboratory  
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Date of Report: 01/04/2012  
 Report Revision: O  
 Report ID: SAR rpt\_PMUF1473B\_Rev.O  
 \_120104\_SR9992

**Responsible Engineer:** Veeramani Veerapan (Sr. EME Engineer)  
**Report Author:** Veeramani Veerapan (Sr. EME Engineer)  
**Date/s Tested:** 11/21/2011 – 12/8/2011  
**Manufacturer/Location:** Motorola, Penang  
**Sector/Group/Div.:** EMS  
**Date submitted for test:** 11/14/2011  
**DUT Description:** 806-870 MHz & 896-941 MHz, 12.5kHz/25kHz, 2W, 160CH, FKP & Display with GPS (Capable of analog FM transmission and digital TDMA transmission.)  
**Test TX mode(s):** CW (PTT)  
**Max. Power output:** 2.65 Watts  
**Nominal Power:** 2.20 Watts  
**Tx Frequency Bands:** TMO: 806-825 MHz, DMO: 851-870 MHz (800 band) & TMO: 896-902 MHz, DMO: 935-941 MHz (900 band)  
**Signaling type:** FM and TDMA  
**Model(s) Tested:** PMUF1473B  
**Model(s) Certified:** PMUF1473B  
**Serial Number(s):** N4RPRD1O, N4RPRD1P  
**Classification:** Occupational/Controlled  
**FCC ID:** ABZ99FT5013; Rule part 90 (806-824, 851-869, 896-901 & 935-940 MHz)  
**IC:** 109AB-99FT5013 (806-821, 821-824, 851-866, 866-869, 896-901 & 935-940 MHz)

\* 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, 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 Zakharia**  
 EMS EME Lab Senior Resource Manager,  
 Laboratory Director

Approval Date: 1/19/2012

Certification Date: 1/19/2012

Certification No.: L1120111P

## Appendix D

### Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificates for dipole D900V2 S/N 1d025 was not used due to the following:

- The IEEE 1528-2003 and the FCC OET-65 Supplement C, System Verification section indicated that "The measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement."
- SPEAG calibration certificate indicates that the allowed tolerance for this dipole is higher than +/-10% (e.g. 11.4 +/-17.0 % at k=2 for the D900V2 S/N 1d025).
- The allowed tolerance for the probe is also higher than +/- 10% (e.g. 12.0 % at k=2 at 900 MHz for the probe being used to assess this product).

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

- The System Validation was conducted per IEEE1528-2003 and 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 a flat phantom with 2mm thickness. These results then are averaged and used as the target for the daily system performance check when the simulated head tissue is used.
- The dipole targets for the body are set immediately following the same process noted above. Since there is no standard referencing the SAR values for the System Validation using the simulated body tissue, the compliant System Validation results using the simulated head tissue are used to justify the use of the System Validation results using the simulated body tissue due to the same setup except for the simulated tissue type.

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

Note that the targets set for the tested dipole, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between this result and the result from the manufacture's dipole calibration certificate is up to 10.2 % for the 900 MHz 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: 11/21/2011 12:45:08 PM**

Robot# / Run#: DASY4-PG-1 / PS-SYSP-900B-111121-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.6 (C)

Dipole Model# / Serial#: D900V2 / 1d025

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

Target SAR (1W): 10.90 mW/g (1g)

Adjusted SAR (1W): 11.17 mW/g (1g)

Percent from Target (+/-): 2.50 % (1g)

Rotation (1D): 0.033 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: 2.793 mW/g (1g); 1.793 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 900$  MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 54.7 V/m; Power Drift = -0.00738 dB

Peak SAR (extrapolated) = 4.12 W/kg

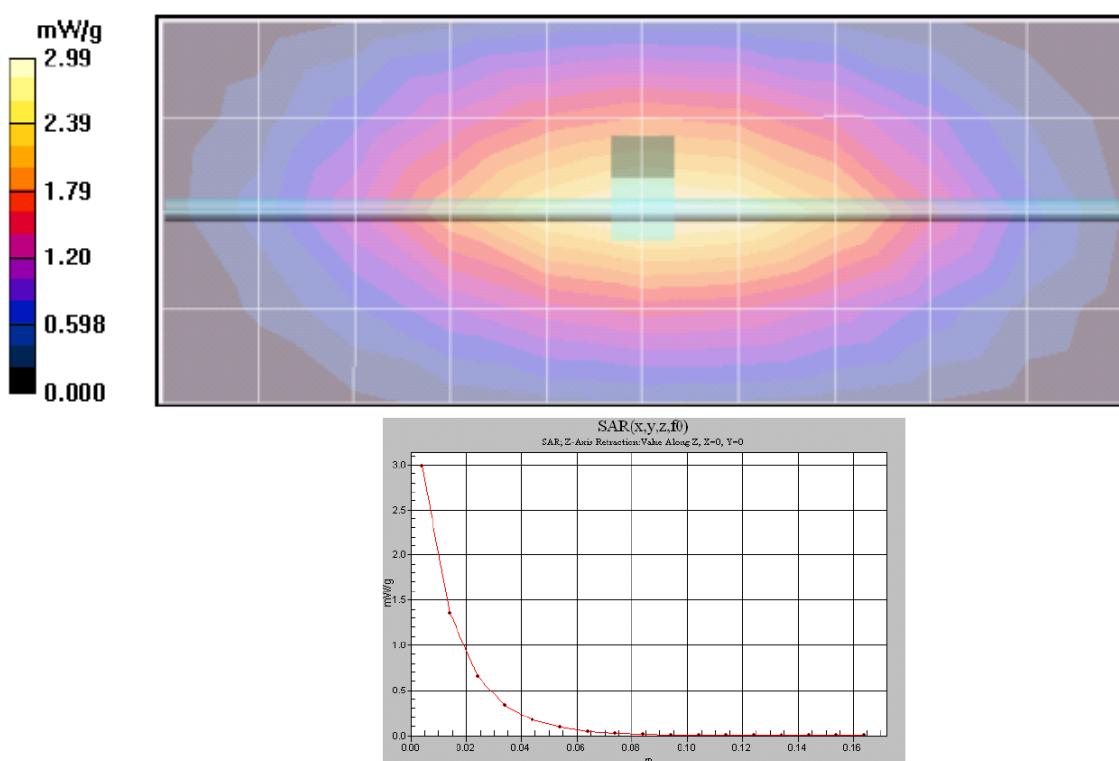
SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.78 mW/g

Maximum value of SAR (measured) = 2.99 mW/g

**System Performance Check/Dipole Area Scan 2 (5x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.96 mW/g

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



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 11/22/2011 6:39:38 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-900B-111122-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.5 (C)

Dipole Model# / Serial#: D900V2 / 1d025

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

Target SAR (1W): 10.90 mW/g (1g)

Adjusted SAR (1W): 11.10 mW/g (1g)

Percent from Target (+/-): 1.90 % (1g)

Rotation (1D): 0.03 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: 2.776 mW/g (1g); 1.796 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 900$  MHz;  $\sigma = 1.04$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 54.1 V/m; Power Drift = -0.0152 dB

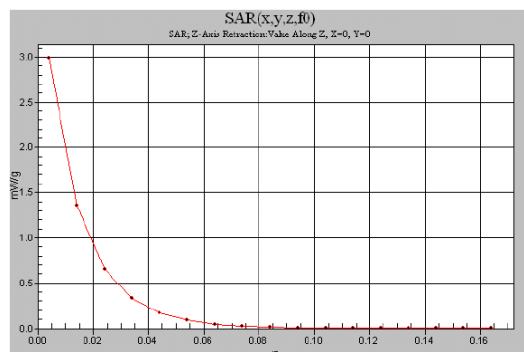
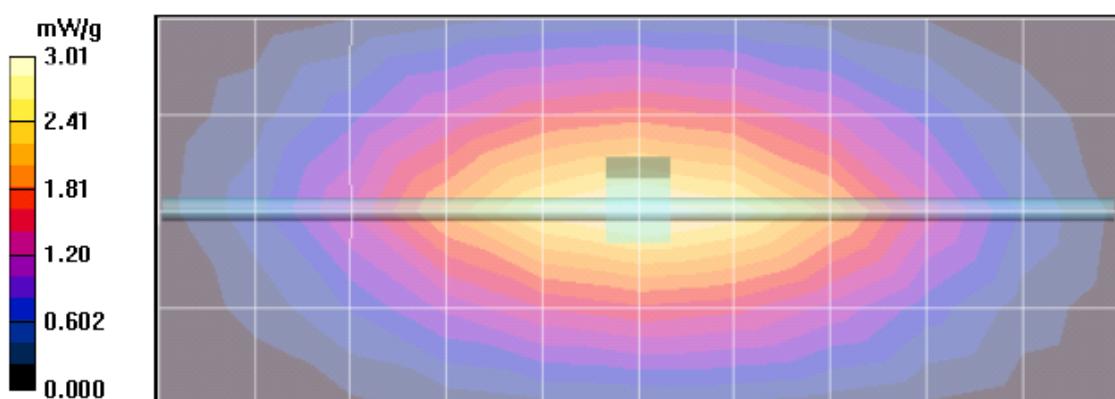
Peak SAR (extrapolated) = 4.09 W/kg

SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.79 mW/g

Maximum value of SAR (measured) = 3.00 mW/g

**System Performance Check/Dipole Area Scan 2 (5x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.98 mW/g

**System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 3.01 mW/g



**Motorola Solutions, Inc. EME Laboratory**  
**Date/Time: 11/23/2011 6:48:44 AM**

Robot# / Run#: DASY4-PG-1 / PS-SYSP-900B-111123-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)

Dipole Model# / Serial#: D900V2 / 1d025

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

Target SAR (1W): 10.90 mW/g (1g)

Adjusted SAR (1W): 11.06 mW/g (1g)

Percent from Target (+/-): 1.50 % (1g)

Rotation (1D): 0.037 dB

**Note:**

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

Reported SAR: 2.766 mW/g (1g); 1.786 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 900$  MHz;  $\sigma = 1.04$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 54.2 V/m; Power Drift = -0.0047 dB

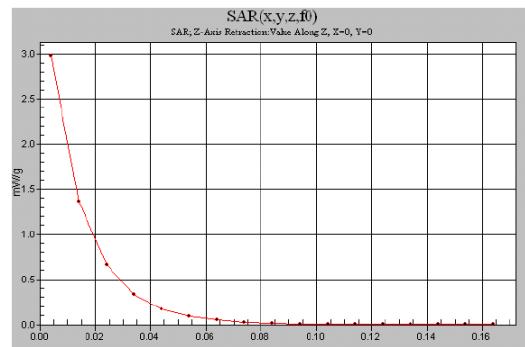
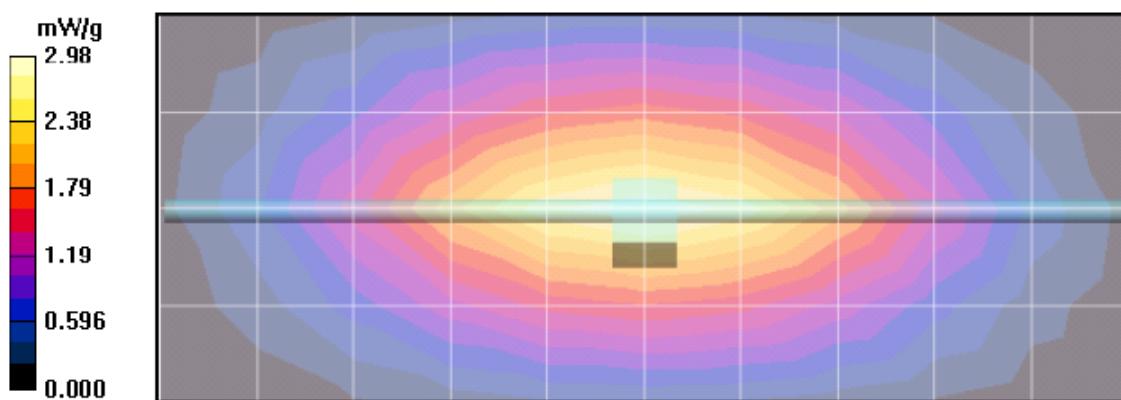
Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 2.75 mW/g; SAR(10 g) = 1.78 mW/g

Maximum value of SAR (measured) = 2.98 mW/g

**System Performance Check/Dipole Area Scan 2 (5x11x1):** Measurement grid: dx=15mm, dy=15mm

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



**Motorola Solutions, Inc. EME Laboratory**  
**Date/Time: 11/24/2011 6:40:21 AM**

Robot# / Run#: DASY4-PG-1 / PS-SYSP-900H-111124-01

Phantom# / Tissue Temp.: ELI4 1028 / 21.1 (C)

Dipole Model# / Serial#: D900V2 / 1d025

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

Target SAR (1W): 10.24 mW/g (1g)

Adjusted SAR (1W): 10.60 mW/g (1g)

Percent from Target (+/-): 3.50 % (1g)

Rotation (1D): 0.044 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: 2.650 mW/g (1g); 1.700 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 900$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 55.0 V/m; Power Drift = -0.0043 dB

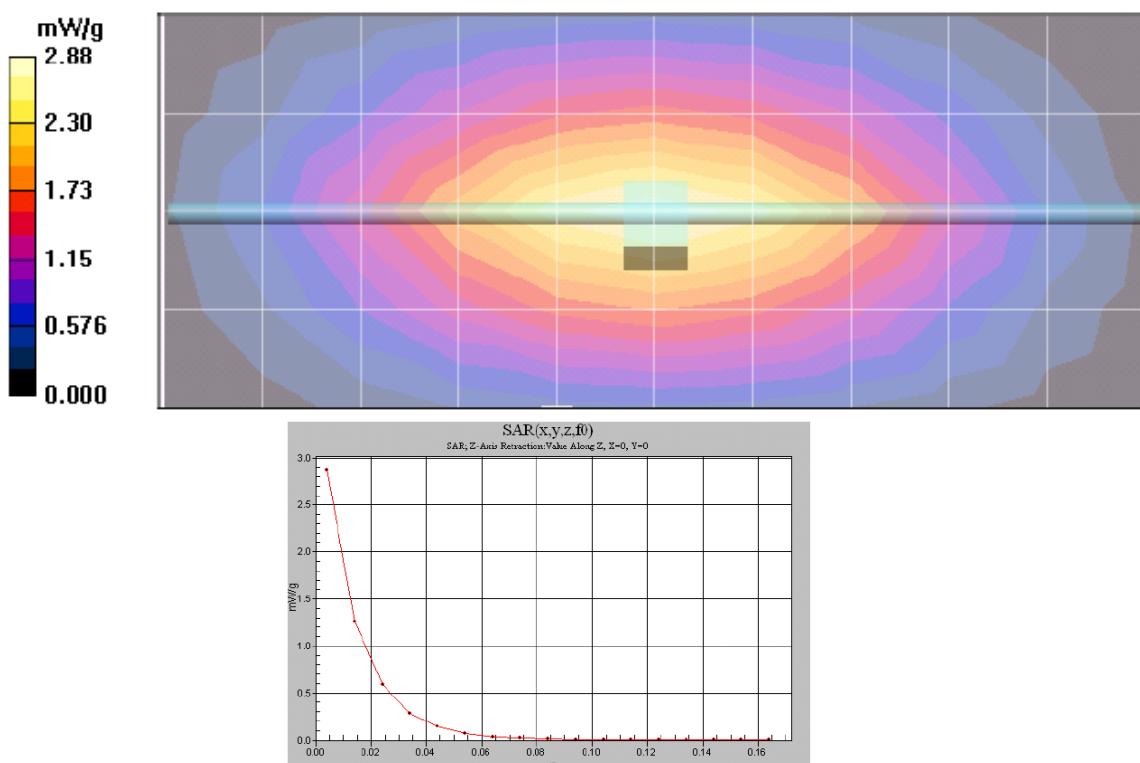
Peak SAR (extrapolated) = 4.00 W/kg

SAR(1 g) = 2.65 mW/g; SAR(10 g) = 1.7 mW/g

Maximum value of SAR (measured) = 2.88 mW/g

**System Performance Check/Dipole Area Scan 2 (5x11x1):** Measurement grid: dx=15mm, dy=15mm

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



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 12/8/2011 9:09:37 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-900H-111208-01

Phantom# / Tissue Temp.: ELI4 1028 / 21.5 (C)

Dipole Model# / Serial#: D900V2 / 1d025

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

Target SAR (1W): 10.24 mW/g (1g)

Adjusted SAR (1W): 10.54 mW/g (1g)

Percent from Target (+/-): 2.90 % (1g)

Rotation (1D): 0.047 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: 2.635 mW/g (1g); 1.686 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 900$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 55.0 V/m; Power Drift = -0.00803 dB

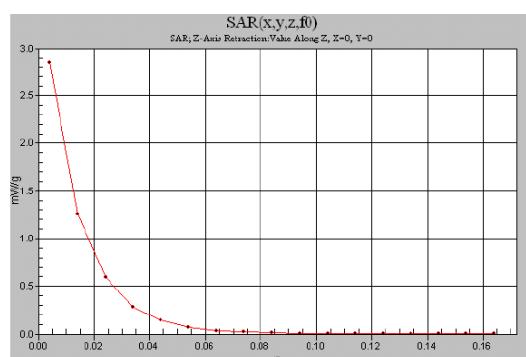
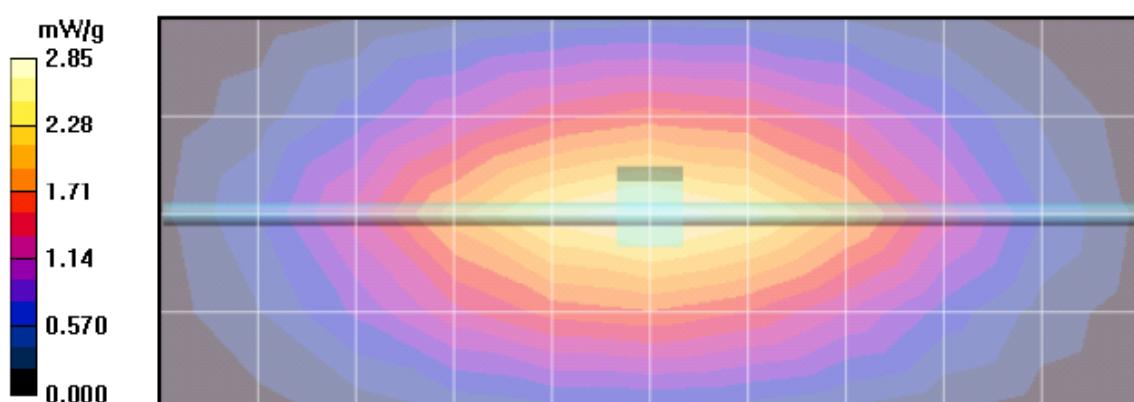
Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 2.62 mW/g; SAR(10 g) = 1.68 mW/g

Maximum value of SAR (measured) = 2.84 mW/g

**System Performance Check/Dipole Area Scan 2 (5x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 2.85 mW/g

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



DIPOLE SAR TARGET - HEAD

Date:	<u>09/12/11</u>	Frequency (MHz):	<u>900</u>
Lab Location:	<u>PG-EMS</u>	Mixture Type:	<u>IEEE Head</u>
DAE Serial #:	<u>374</u>	Ambient Temp.(°C):	<u>21.2</u>

Tissue Characteristics			
Permitivity:	<u>39.9</u>	Phantom Type/SN:	<u>ELI4 1028</u>
Conductivity:	<u>0.97</u>	Distance (mm):	<u>15</u>
Tissue Temp.(°C):	<u>20.7</u>		

Reference Source:	<u>Dipole</u>	Power to Dipole:	<u>250</u> mW
Reference SN:	<u>1d025</u>		

Target 1g-SAR Value (mW/g, normalized to 1.0 W):	<u>10.9</u>	Difference from Target	
		<u>-6.06%</u>	<u>(1g-SAR)</u>

New Target:	<u>10.24</u>	<b>Passes K=2</b>
Average 1g-SAR Value (mW/g):		

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3196	10.40	1.6%	R1
3122	10.08	-1.6%	R1
Average		<b>10.2400</b>	New Measured SAR Value

(normalized to 1.0 W)

Test performed by:

**Patrick Saw**

Initial:

79-12-11

**DIPOLE SAR TARGET - BODY**

Date:	<u>09/09/11</u>	Frequency (MHz):	<u>900</u>
Lab Location:	<u>PG-EMS</u>	Mixture Type:	<u>Body</u>
DAE Serial #:	<u>374</u>	Ambient Temp.(°C):	<u>21.6</u>

## Tissue Characteristics

Permitivity:	<u>53.2</u>	Phantom Type/SN:	<u>ELI4 1050</u>
Conductivity:	<u>1.08</u>	Distance (mm):	<u>15</u>
Tissue Temp.(°C):	<u>21</u>		

Reference Source:	<u>Dipole</u>	Power to Dipole:	<u>250</u> mW
Reference SN:	<u>1d025</u>		

## New Target:

Average Measured SAR Value: 10.90 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3196	11.04	1.3%	R1
3122	10.76	-1.3%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Lee Soon Hock Initial: LS 09/09/11

**Appendix E**  
**FCC Part 90 (806-824, 851-869, 896-901 & 935-940 MHz)**  
**DUT Scans (Shortened Scan and Highest SAR configurations)**

**Shortened Scan Result**  
**(Section 13.17, Table 29)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/24/2011 7:39:47 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111124-18  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.4 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1P  
 Antenna / TX Freq.: PMAF4005A / 938.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.72 (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: 2.460 mW/g (1g); 1.760 mW/g (10g)

Comments: Shorten scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 938$  MHz;  $\sigma = 1.08$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.9 V/m; Power Drift = -0.260 dB

**Motorola Fast SAR:** SAR(1 g) = 1.93 mW/g; SAR(10 g) = 1.35 mW/g

Maximum value of SAR (interpolated) = 2.04 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 35.9 V/m; Power Drift = -0.334 dB

Peak SAR (extrapolated) = 1.95 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.84 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (interpolated) = 1.95 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 50.5 V/m; Power Drift = -0.217 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.76 mW/g

Maximum value of SAR (measured) = 2.57 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.92 mW/g

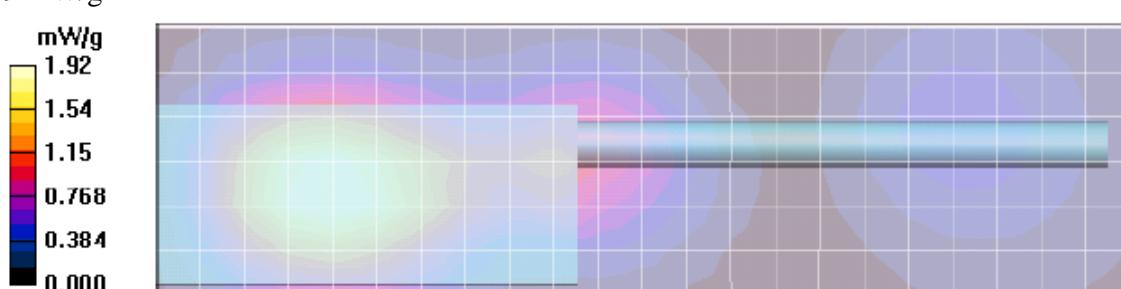
Shortened scan reflect highest SAR producing configuration; approximate run time 7 minutes.

Representative full scan run time was 26 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg.= 1.29 mW/g; 10-g Avg.= 0.93 mW/g

Full scan max calculated SAR using SAR drift (see part 1 section 13.17): 1-g Avg.= 1.38 mW/g; 10-g

Avg.=0.99 mW/g



## Highest SAR Configuration Result for Body

### (Section 13.16, Table 29)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/24/2011 7:04:18 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111124-17  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.5 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1P  
 Antenna / TX Freq.: PMAF4005A / 938.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.74 (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: 2.430 mW/g (1g); 1.740 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 938$  MHz;  $\sigma = 1.08$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 43.9 V/m; Power Drift = -0.369 dB

Motorola Fast SAR: SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.81 mW/g

Maximum value of SAR (interpolated) = 2.78 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 43.9 V/m; Power Drift = -0.427 dB

Peak SAR (extrapolated) = 2.62 W/kg

Motorola Fast SAR: SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.73 mW/g

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

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.9 V/m; Power Drift = -0.542 dB

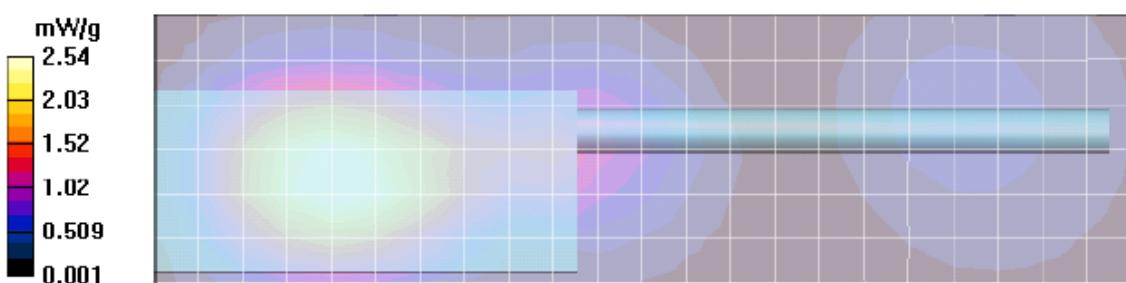
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.74 mW/g

Maximum value of SAR (measured) = 2.56 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.54 mW/g



## Highest SAR Configuration Result for Face (Section 13.12, Table 24)

**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 11/23/2011 10:39:16 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111123-06  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.2 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 938.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.76 (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: 1.780 mW/g (1g); 1.280 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 938$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 40.2 V/m; Power Drift = -0.455 dB

**Motorola Fast SAR:** SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.32 mW/g

Maximum value of SAR (interpolated) = 1.98 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 40.2 V/m; Power Drift = -0.516 dB

Peak SAR (extrapolated) = 1.91 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.81 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (interpolated) = 1.91 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 40.2 V/m; Power Drift = -0.593 dB

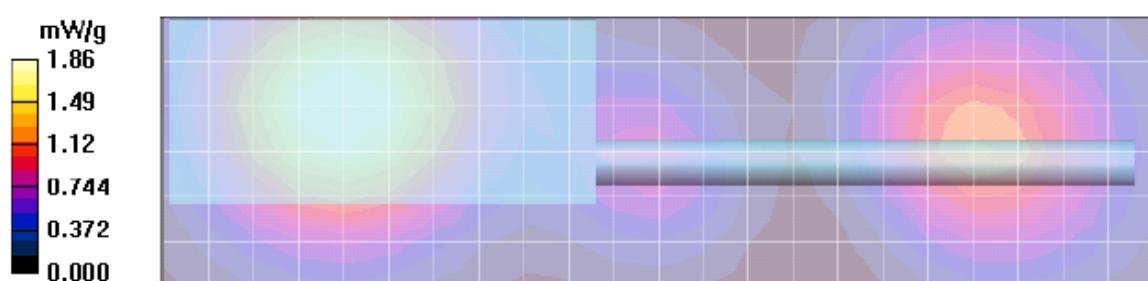
Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 1.78 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (measured) = 1.88 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.86 mW/g



**Appendix F**  
**DUT Scans – FCC Part 90 (806-824, 851-869, 896-901 & 935-940 MHz)**

**Section 1.0**  
**(806-824 MHz band)**  
**Assessment at the Body- Body worn accessories**  
**Section 13.2 (Table 14)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/21/2011 2:50:30 PM

Robot# / Run#: DASY4-PG-1 / Lee-AB-111121-04  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 806.0125 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.70 (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: 0.605 mW/g (1g); 0.453 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 806$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 25.4 V/m; Power Drift = -0.127 dB

**Motorola Fast SAR:** SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.437 mW/g

Maximum value of SAR (interpolated) = 0.639 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 25.4 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.629 W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.430 mW/g

Maximum value of SAR (interpolated) = 0.629 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.4 V/m; Power Drift = -0.193 dB

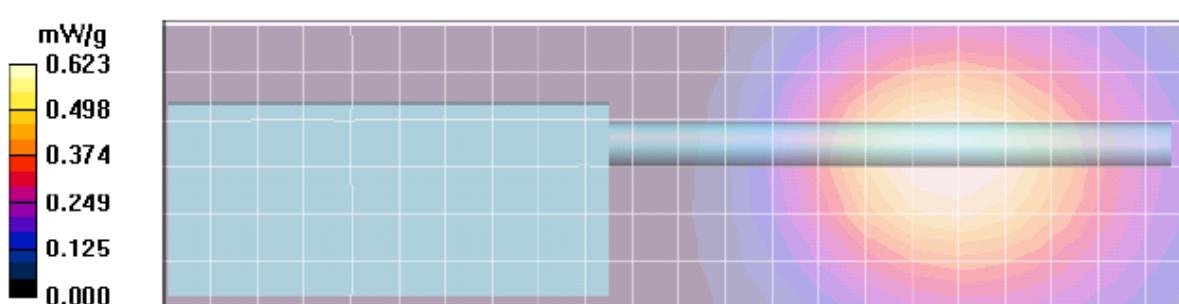
Peak SAR (extrapolated) = 0.759 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (measured) = 0.624 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.623 mW/g



**Section 2.0**  
**(806-824 MHz band)**  
**Assessment at the Face**  
**Section 13.3 (Table 15)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 8:22:07 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111123-03  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.8 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 806.0125 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.71 (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: 0.816 mW/g (1g); 0.597 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 806$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 41$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 31.6 V/m; Power Drift = -0.034 dB

**Motorola Fast SAR:** SAR(1 g) = 0.819 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (interpolated) = 0.864 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 31.6 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.858 W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.814 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (interpolated) = 0.858 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 31.6 V/m; Power Drift = -0.093 dB

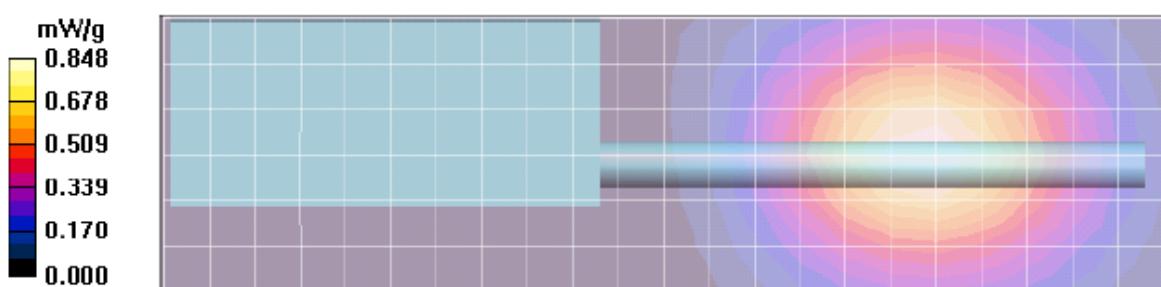
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.593 mW/g

Maximum value of SAR (measured) = 0.853 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.848 mW/g



**Section 3.0**  
**(851-869 MHz band)**  
**Assessment at the Body- Body worn accessories**  
**Section 13.5 (Table 17)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/22/2011 10:22:23 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-111122-05  
 Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 851.0125 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.71 (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: 0.644 mW/g (1g); 0.479 mW/g (10g)

Comments: Full scan.

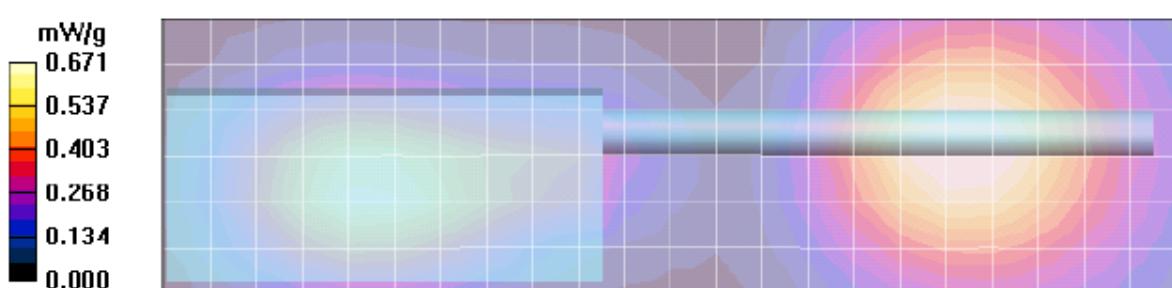
Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 851$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 27.3 V/m; Power Drift = -0.290 dB  
**Motorola Fast SAR:** SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.482 mW/g  
 Maximum value of SAR (interpolated) = 0.716 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 27.3 V/m; Power Drift = -0.318 dB  
 Peak SAR (extrapolated) = 0.691 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.467 mW/g  
 Maximum value of SAR (interpolated) = 0.691 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 27.3 V/m; Power Drift = -0.399 dB  
 Peak SAR (extrapolated) = 0.826 W/kg  
**SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.479 mW/g**  
 Maximum value of SAR (measured) = 0.677 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 0.671 mW/g



**Section 4.0**  
**(851-869 MHz band)**  
**Assessment at the Face**  
**Section 13.6 (Table 18)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 9:19:00 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111123-04

Phantom# / Tissue Temp.: ELI4 1028 / 20.3 (C)

DUT Model# / Serial#: PMUF1473B / N4RPRD1O

Antenna / TX Freq.: PMAF4005A / 851.0125 (MHz)

Battery: NNTN8287A

Carry Acc. / Cable Acc.: NONE / NONE

Start Power: 2.74 (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: 1.030 mW/g (1g); 0.748 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 851$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.8 V/m; Power Drift = -0.248 dB

**Motorola Fast SAR:** SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.757 mW/g

Maximum value of SAR (interpolated) = 1.13 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 35.8 V/m; Power Drift = -0.276 dB

Peak SAR (extrapolated) = 1.10 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.743 mW/g

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

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.8 V/m; Power Drift = -0.344 dB

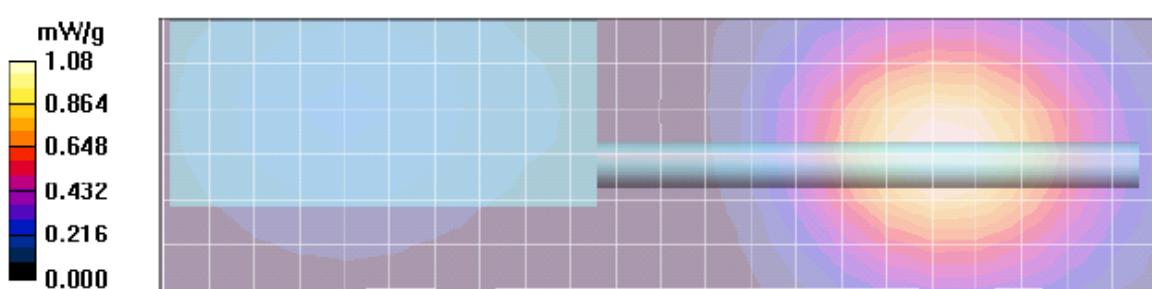
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.748 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.08 mW/g



**Section 5.0**  
**(896-901 MHz band)**  
**Assessment at the Body- Body worn accessories**  
**Section 13.8 (Table 20)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/22/2011 2:39:53 PM

Robot# / Run#: DASY4-PG-1 / Lee-AB-111122-10  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD10  
 Antenna / TX Freq.: PMAF4005A / 896.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.75 (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: 2.179 mW/g (1g); 1.568 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 896$  MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 41.1 V/m; Power Drift = -0.348 dB

**Motorola Fast SAR:** SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.62 mW/g

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

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 41.1 V/m; Power Drift = -0.405 dB

Peak SAR (extrapolated) = 2.34 W/kg

**Motorola Fast SAR:** SAR(1 g) = 2.22 mW/g; SAR(10 g) = 1.55 mW/g

Maximum value of SAR (interpolated) = 2.34 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 41.1 V/m; Power Drift = -0.612 dB

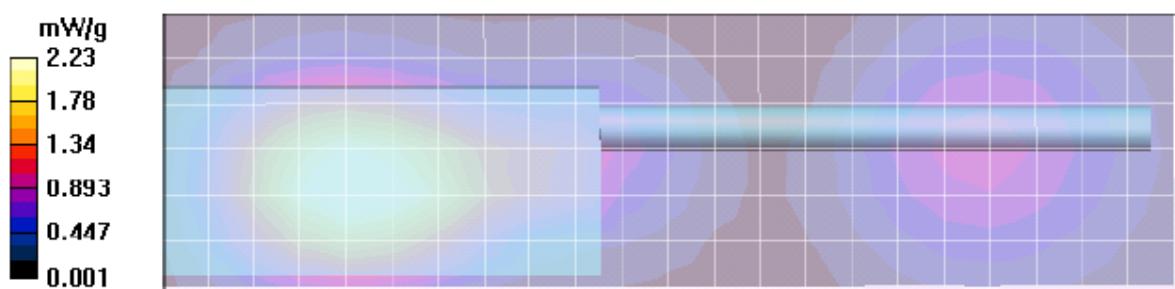
Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 2.16 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (measured) = 2.28 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.23 mW/g



**Section 6.0**  
**(896-901 MHz band)**  
**Assessment at the Face**  
**Section 13.9 (Table 21)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/23/2011 9:58:59 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111123-05

Phantom# / Tissue Temp.: ELI4 1028 / 20.4 (C)

DUT Model# / Serial#: PMUF1473B / N4RPRD1O

Antenna / TX Freq.: PMAF4005A / 896.000 (MHz)

Battery: NNTN8287A

Carry Acc. / Cable Acc.: NONE / NONE

Start Power: 2.74 (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: 1.284 mW/g (1g); 0.921 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 896$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.5 V/m; Power Drift = -0.154 dB

Motorola Fast SAR: SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.936 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 37.5 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 1.38 W/kg

Motorola Fast SAR: SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.920 mW/g

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

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.5 V/m; Power Drift = -0.256 dB

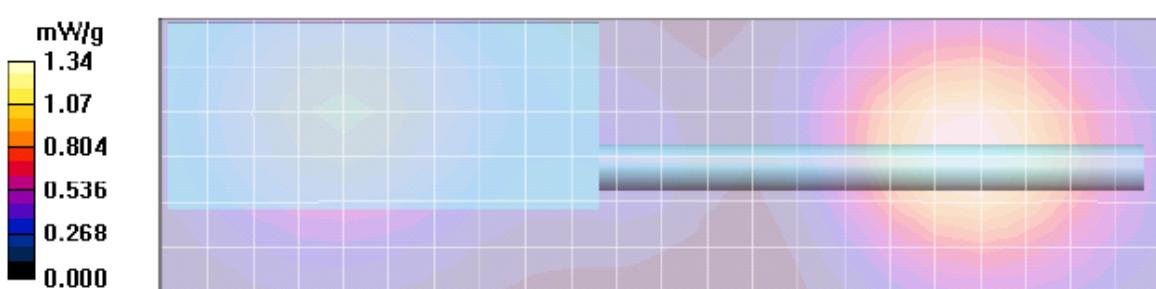
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.919 mW/g

Maximum value of SAR (measured) = 1.35 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.34 mW/g



**Section 7.0**  
**(935-940 MHz band)**  
**Assessment at the Body- Body worn accessories**  
**Section 13.11 (Table 23)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/22/2011 7:42:41 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111122-16  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.8 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 938.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.76 (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: 2.180 mW/g (1g); 1.570 mW/g (10g)

Comments: Full scan.

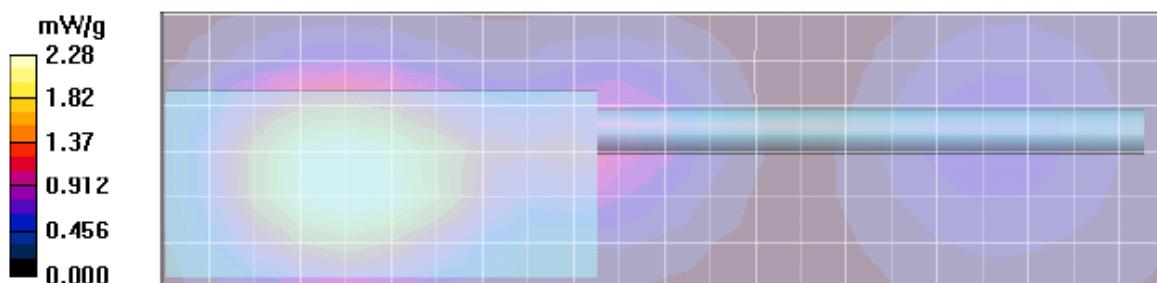
Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 938$  MHz;  $\sigma = 1.08$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 42.9 V/m; Power Drift = -0.576 dB  
**Motorola Fast SAR:** SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.68 mW/g  
 Maximum value of SAR (interpolated) = 2.58 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 42.9 V/m; Power Drift = -0.662 dB  
 Peak SAR (extrapolated) = 2.38 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.57 mW/g  
 Maximum value of SAR (interpolated) = 2.38 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 42.9 V/m; Power Drift = -0.804 dB  
 Peak SAR (extrapolated) = 2.86 W/kg  
**SAR(1 g) = 2.18 mW/g; SAR(10 g) = 1.57 mW/g**  
 Maximum value of SAR (measured) = 2.30 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.28 mW/g



**Section 8.0**  
**(935-940 MHz band)**  
**Assessment at the Face**  
**Section 13.12 (Table 24)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 10:39:16 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111123-06  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.2 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 938.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.76 (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: 1.780 mW/g (1g); 1.280 mW/g (10g)

Comments: Full scan

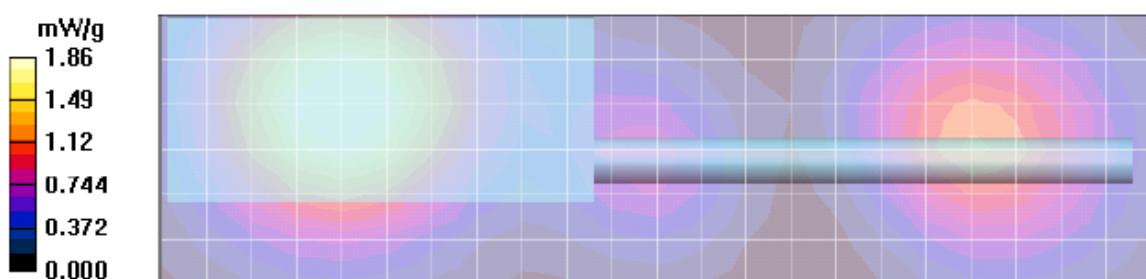
Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 938$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 40.2 V/m; Power Drift = -0.455 dB  
**Motorola Fast SAR:** SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.32 mW/g  
 Maximum value of SAR (interpolated) = 1.98 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 40.2 V/m; Power Drift = -0.516 dB  
 Peak SAR (extrapolated) = 1.91 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 1.81 mW/g; SAR(10 g) = 1.28 mW/g  
 Maximum value of SAR (interpolated) = 1.91 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 40.2 V/m; Power Drift = -0.593 dB  
 Peak SAR (extrapolated) = 2.36 W/kg  
**SAR(1 g) = 1.78 mW/g; SAR(10 g) = 1.28 mW/g**  
 Maximum value of SAR (measured) = 1.88 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.86 mW/g



**Appendix G**  
**DUT Scans Outside Part 90 (824-825, 869-870, 901-902 & 940-941 MHz)**  
**Data enclosed for this Appendix is not applicable for FCC Part 90**

**Section 1.0**  
**(806-825 MHz band)**  
**Outside FCC Part 90 at the Body**  
**Section 13.13 (Table 25)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/24/2011 9:40:10 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-111124-05  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 825.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.72 (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: 0.784 mW/g (1g); 0.587 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 29.8 V/m; Power Drift = -0.213 dB

**Motorola Fast SAR:** SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.583 mW/g

Maximum value of SAR (interpolated) = 0.858 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 29.8 V/m; Power Drift = -0.241 dB

Peak SAR (extrapolated) = 0.837 W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.568 mW/g

Maximum value of SAR (interpolated) = 0.837 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.8 V/m; Power Drift = -0.315 dB

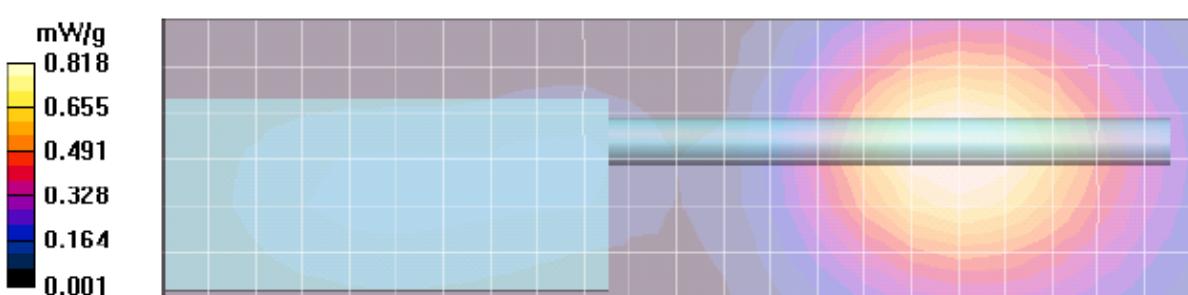
Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.780 mW/g; SAR(10 g) = 0.585 mW/g

Maximum value of SAR (measured) = 0.821 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.818 mW/g



**Section 2.0  
(851-870 MHz band)  
Outside FCC Part 90 at the Body  
Section 13.13 (Table 25)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/24/2011 10:18:07 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-111124-06  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.3 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD10  
 Antenna / TX Freq.: PMAF4005A / 870.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.72 (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: 1.032 mW/g (1g); 0.757 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 870$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 28.7 V/m; Power Drift = -0.289 dB

Motorola Fast SAR: SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.758 mW/g

Maximum value of SAR (interpolated) = 1.15 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 28.7 V/m; Power Drift = -0.314 dB

Peak SAR (extrapolated) = 1.11 W/kg

Motorola Fast SAR: SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.737 mW/g

Maximum value of SAR (interpolated) = 1.11 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.375 dB

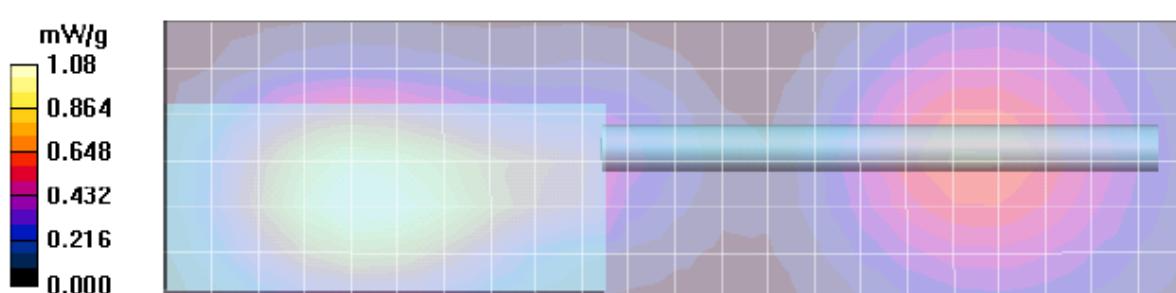
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.756 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.08 mW/g



**Section 3.0**  
**(896-902 MHz band)**  
**Outside FCC Part 90 at the Body**  
**Section 13.13 (Table 25)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/24/2011 10:54:54 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-111124-07  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.4 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 902.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.75 (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: 2.265 mW/g (1g); 1.646 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 902$  MHz;  $\sigma = 1.04$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 41.8 V/m; Power Drift = -0.346 dB

**Motorola Fast SAR:** SAR(1 g) = 2.41 mW/g; SAR(10 g) = 1.68 mW/g  
 Maximum value of SAR (interpolated) = 2.57 mW/g

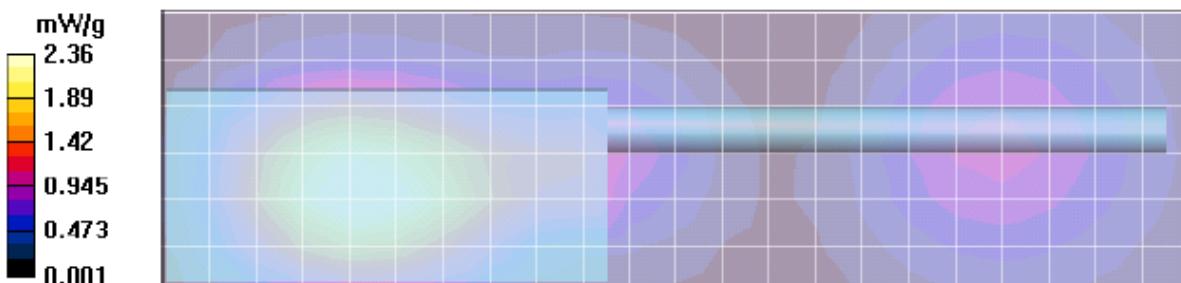
**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 41.8 V/m; Power Drift = -0.392 dB

Peak SAR (extrapolated) = 2.44 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.61 mW/g  
 Maximum value of SAR (interpolated) = 2.44 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 41.8 V/m; Power Drift = -0.491 dB

Peak SAR (extrapolated) = 2.91 W/kg  
 SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.64 mW/g  
 Maximum value of SAR (measured) = 2.38 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.36 mW/g



**Section 4.0**  
**(935-941 MHz band)**  
**Outside FCC Part 90 at the Body**  
**Section 13.13 (Table 25)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/24/2011 12:14:15 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-111124-08  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.3 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 941.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.81 (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: 1.740 mW/g (1g); 1.250 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 941$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.8 V/m; Power Drift = -0.690 dB

**Motorola Fast SAR:** SAR(1 g) = 1.95 mW/g; SAR(10 g) = 1.36 mW/g

Maximum value of SAR (interpolated) = 2.08 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 37.8 V/m; Power Drift = -0.771 dB

Peak SAR (extrapolated) = 1.88 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.78 mW/g; SAR(10 g) = 1.24 mW/g

Maximum value of SAR (interpolated) = 1.88 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.8 V/m; Power Drift = -0.926 dB

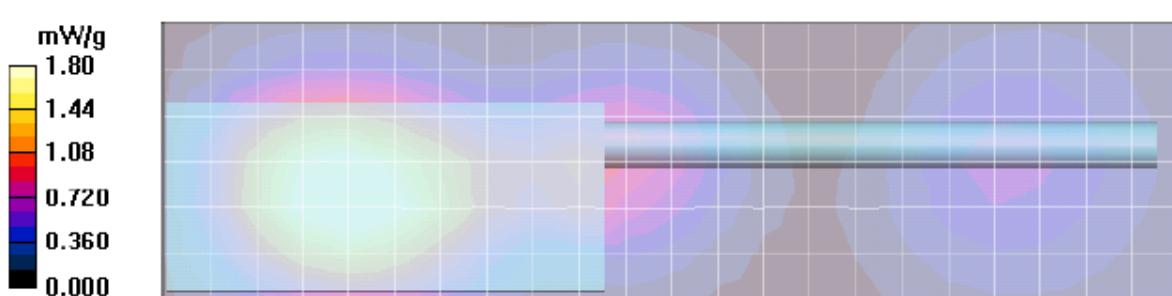
Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.74 mW/g; SAR(10 g) = 1.25 mW/g

Maximum value of SAR (measured) = 1.83 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.80 mW/g



**Section 5.0**  
**(806-825 MHz band)**  
**Outside FCC Part 90 at the Face**  
**Section 13.14 (Table 26)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 1:47:01 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-07  
 Phantom# / Tissue Temp.: ELI4 1028 / 21.0 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 825.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.71 (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: 1.130 mW/g (1g); 0.826 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

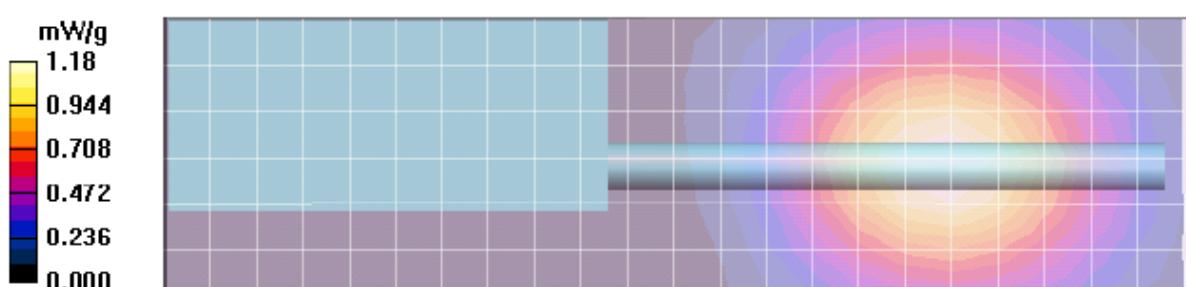
Duty Cycle: 1:1, Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 37.9 V/m; Power Drift = -0.195 dB  
**Motorola Fast SAR:** SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.829 mW/g  
 Maximum value of SAR (interpolated) = 1.23 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 37.9 V/m; Power Drift = -0.230 dB  
 Peak SAR (extrapolated) = 1.20 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.815 mW/g  
 Maximum value of SAR (interpolated) = 1.20 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 37.9 V/m; Power Drift = -0.278 dB  
 Peak SAR (extrapolated) = 1.46 W/kg  
 SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.826 mW/g  
 Maximum value of SAR (measured) = 1.19 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.18 mW/g



**Section 6.0**  
**(851-870 MHz band)**  
**Outside FCC Part 90 at the Face**  
**Section 13.14 (Table 26)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 2:25:41 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-08

Phantom# / Tissue Temp.: ELI4 1028 / 20.6 (C)

DUT Model# / Serial#: PMUF1473B / N4RPRD1O

Antenna / TX Freq.: PMAF4005A / 870.000 (MHz)

Battery: NNTN8287A

Carry Acc. / Cable Acc.: NONE / NONE

Start Power: 2.70 (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: 1.020 mW/g (1g); 0.740 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 870$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.7 V/m; Power Drift = -0.143 dB

**Motorola Fast SAR:** SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.750 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 34.7 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 1.09 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (interpolated) = 1.09 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.7 V/m; Power Drift = -0.255 dB

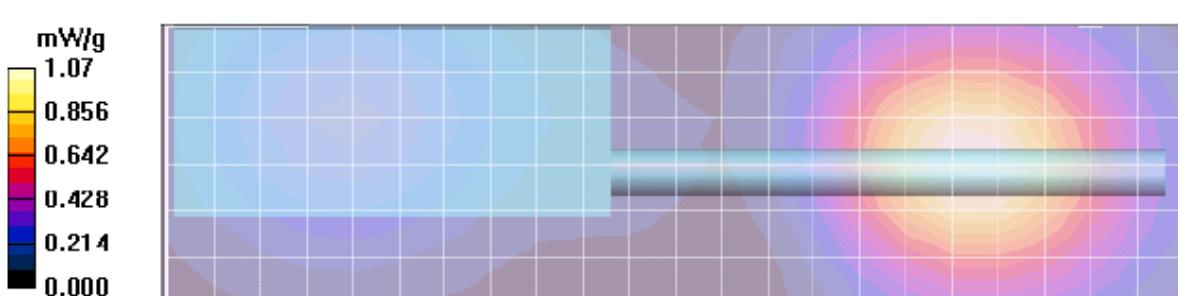
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.740 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.07 mW/g



**Section 7.0**  
**(896-902 MHz band)**  
**Outside FCC Part 90 at the Face**  
**Section 13.14 (Table 26)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 3:26:20 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-09  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.4 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 902.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.73 (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: 1.261 mW/g (1g); 0.900 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 902$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.6 V/m; Power Drift = -0.274 dB

**Motorola Fast SAR:** SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.924 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 37.6 V/m; Power Drift = -0.302 dB

Peak SAR (extrapolated) = 1.35 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.903 mW/g

Maximum value of SAR (interpolated) = 1.35 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.6 V/m; Power Drift = -0.364 dB

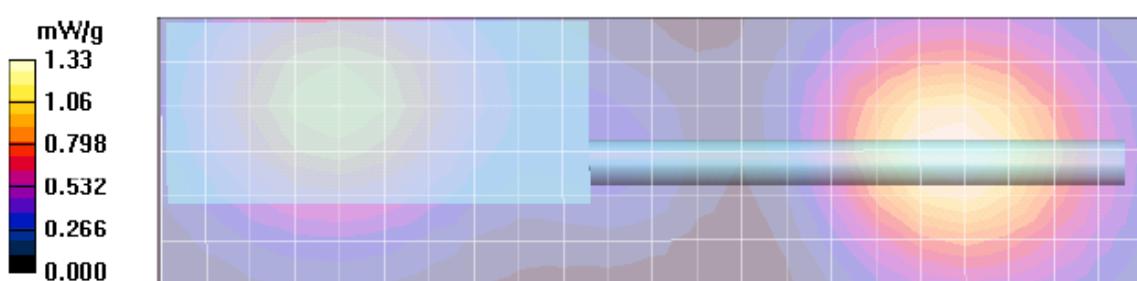
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.900 mW/g

Maximum value of SAR (measured) = 1.34 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.33 mW/g



**Section 8.0**  
**(935-941 MHz band)**  
**Outside FCC Part 90 at the Face**  
**Section 13.14 (Table 26)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 4:04:55 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-10  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.6 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 941.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.75 (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: 1.760 mW/g (1g); 1.260 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 941$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 39.8 V/m; Power Drift = -0.474 dB

**Motorola Fast SAR:** SAR(1 g) = 1.84 mW/g; SAR(10 g) = 1.3 mW/g  
 Maximum value of SAR (interpolated) = 1.95 mW/g

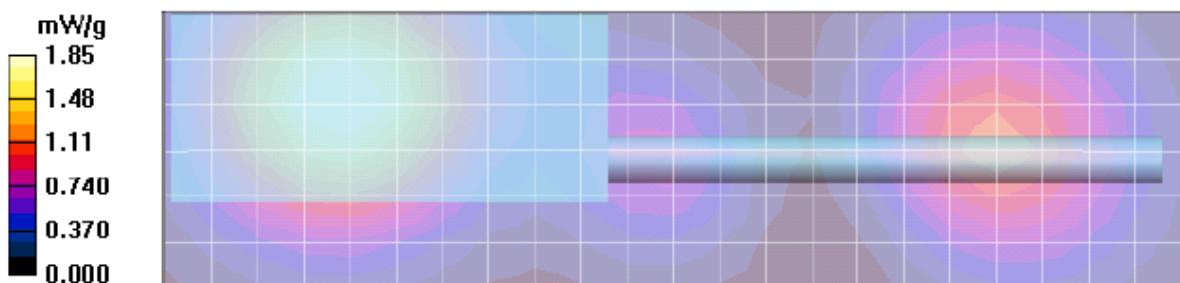
**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 39.8 V/m; Power Drift = -0.555 dB

Peak SAR (extrapolated) = 1.90 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 1.8 mW/g; SAR(10 g) = 1.27 mW/g  
 Maximum value of SAR (interpolated) = 1.90 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 39.8 V/m; Power Drift = -0.637 dB

Peak SAR (extrapolated) = 2.33 W/kg  
**SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.26 mW/g**  
 Maximum value of SAR (measured) = 1.87 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.85 mW/g



**Section 9.0**  
**(806-821 MHz band)**  
**Industry of Canada freq at the Body**  
**Section 13.15 (Table 27)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/24/2011 2:12:32 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111124-10  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.3 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 820.9875 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.73 (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: 0.730 mW/g (1g); 0.545 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 821$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 53.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 28.7 V/m; Power Drift = -0.210 dB

**Motorola Fast SAR:** SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.534 mW/g

Maximum value of SAR (interpolated) = 0.785 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 28.7 V/m; Power Drift = -0.240 dB

Peak SAR (extrapolated) = 0.767 W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.524 mW/g

Maximum value of SAR (interpolated) = 0.767 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.308 dB

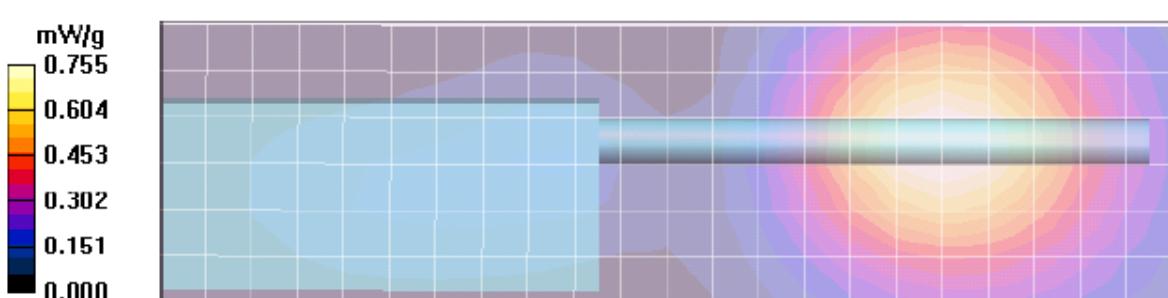
Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.722 mW/g; SAR(10 g) = 0.541 mW/g

Maximum value of SAR (measured) = 0.761 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.755 mW/g



**Section 10.0**  
**(821-824 MHz band)**  
**Industry of Canada freq at the Body**  
**Section 13.15 (Table 27)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 12/8/2011 3:18:30 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-111208-04  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.5 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 821.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.77 (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: 0.769 mW/g (1g); 0.574 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 821$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 29.3 V/m; Power Drift = -0.202 dB

**Motorola Fast SAR:** SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.565 mW/g

Maximum value of SAR (interpolated) = 0.832 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 29.3 V/m; Power Drift = -0.231 dB

Peak SAR (extrapolated) = 0.810 W/kg

**Motorola Fast SAR:** SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.552 mW/g

Maximum value of SAR (interpolated) = 0.810 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.3 V/m; Power Drift = -0.293 dB

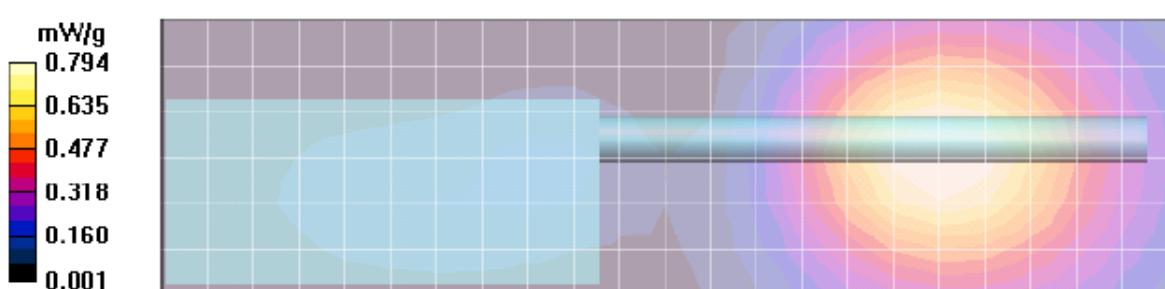
Peak SAR (extrapolated) = 0.968 W/kg

SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.570 mW/g

Maximum value of SAR (measured) = 0.800 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.794 mW/g



**Section 11.0**  
**(851-866 MHz band)**  
**Industry of Canada freq at the Body**  
**Section 13.15 (Table 27)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/24/2011 5:15:05 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111124-14  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.2 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 865.9875 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.71 (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: 1.015 mW/g (1g); 0.743 mW/g (10g)

Comments: Full scan.

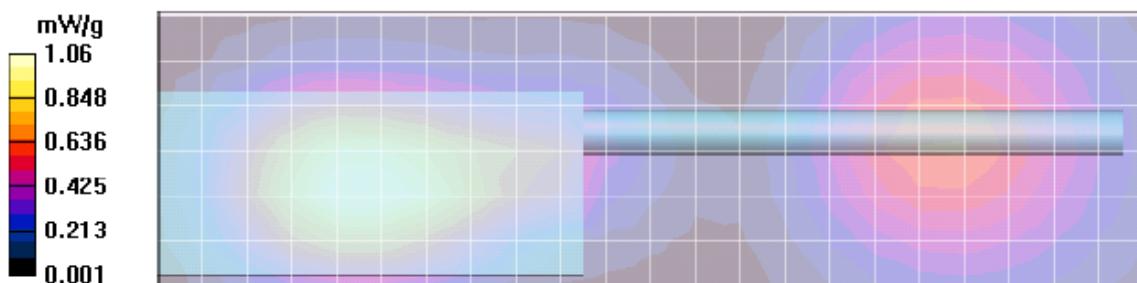
Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 866$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 28.1 V/m; Power Drift = -0.0746 dB  
**Motorola Fast SAR:** SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.736 mW/g  
 Maximum value of SAR (interpolated) = 1.11 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 28.1 V/m; Power Drift = -0.0956 dB  
 Peak SAR (extrapolated) = 1.07 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.718 mW/g  
 Maximum value of SAR (interpolated) = 1.07 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 28.1 V/m; Power Drift = -0.144 dB  
 Peak SAR (extrapolated) = 1.29 W/kg  
 SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.741 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.06 mW/g



**Section 12.0**  
**(866-869 MHz band)**  
**Industry of Canada freq at the Body**  
**Section 13.15 (Table 27)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/24/2011 5:50:29 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-111124-15  
 Phantom# / Tissue Temp.: ELI4 1103 / 20.3 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD10  
 Antenna / TX Freq.: PMAF4005A / 867.5125 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: PMLN5134A / PMLN5275C  
 Start Power: 2.69 (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: 1.100 mW/g (1g); 0.809 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.92, 5.92, 5.92)  
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011

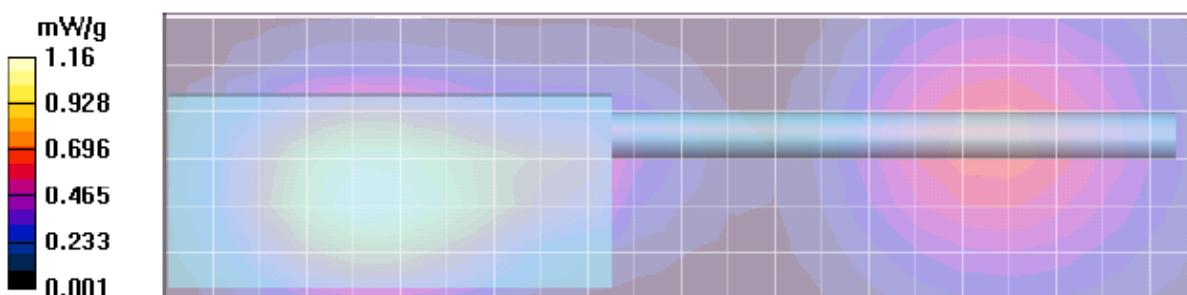
Duty Cycle: 1:1, Medium parameters used:  $f = 868$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ab Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 30.2 V/m; Power Drift = -0.242 dB  
**Motorola Fast SAR:** SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.809 mW/g  
 Maximum value of SAR (interpolated) = 1.23 mW/g

**Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 30.2 V/m; Power Drift = -0.279 dB  
 Peak SAR (extrapolated) = 1.18 W/kg  
**Motorola Fast SAR:** SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.791 mW/g  
 Maximum value of SAR (interpolated) = 1.18 mW/g

**Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 30.2 V/m; Power Drift = -0.390 dB  
 Peak SAR (extrapolated) = 1.40 W/kg  
**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.809 mW/g**  
 Maximum value of SAR (measured) = 1.16 mW/g

**Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm



**Section 13.0**  
**(806-821 MHz band)**  
**Industry of Canada freq at the Face**  
**Section 13.15 (Table 28)**

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 6:01:51 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-13

Phantom# / Tissue Temp.: ELI4 1028 / 20.6 (C)

DUT Model# / Serial#: PMUF1473B / N4RPRD1O

Antenna / TX Freq.: PMAF4005A / 820.9875 (MHz)

Battery: NNTN8287A

Carry Acc. / Cable Acc.: NONE / NONE

Start Power: 2.75 (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: 1.127 mW/g (1g); 0.823 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 821$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.3 V/m; Power Drift = -0.111 dB

**Motorola Fast SAR:** SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.817 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 37.3 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 1.19 W/kg

**Motorola Fast SAR:** SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.809 mW/g

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

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

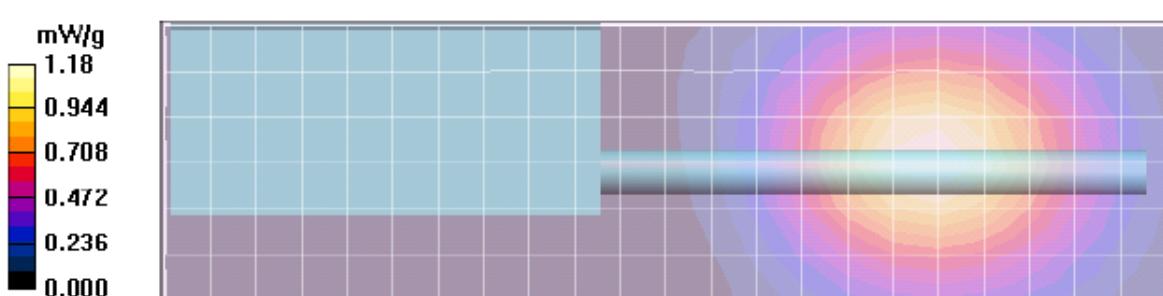
Reference Value = 37.3 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.820 mW/g

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

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm



**Section 14.0**  
**(821-824 MHz band)**  
**Industry of Canada freq at the Face**  
**Section 13.15 (Table 28)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/23/2011 7:28:08 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-15  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.8 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 824.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.70 (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: 1.160 mW/g (1g); 0.848 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 824$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 38.5 V/m; Power Drift = -0.248 dB

Motorola Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.860 mW/g

Maximum value of SAR (interpolated) = 1.28 mW/g

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 38.5 V/m; Power Drift = -0.270 dB

Peak SAR (extrapolated) = 1.24 W/kg

Motorola Fast SAR: SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.837 mW/g

Maximum value of SAR (interpolated) = 1.24 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

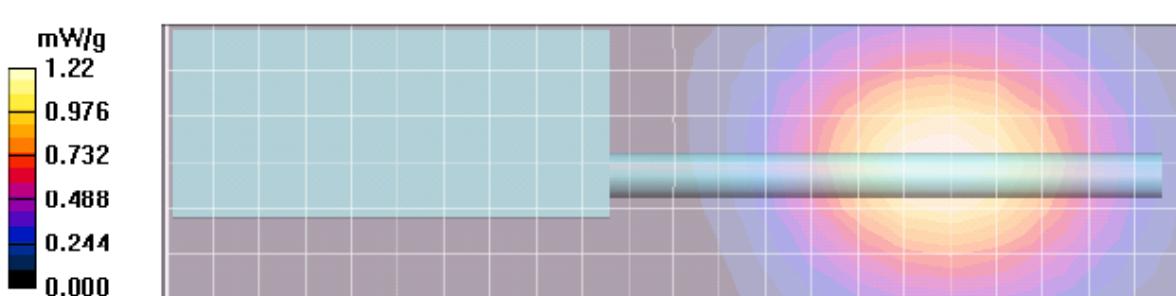
Reference Value = 38.5 V/m; Power Drift = -0.317 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.848 mW/g

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

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm



**Section 15.0**  
**(851-866 MHz band)**  
**Industry of Canada freq at the Face**  
**Section 13.15 (Table 28)**  
**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 11/23/2011 8:03:31 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-111123-16  
 Phantom# / Tissue Temp.: ELI4 1028 / 20.7 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD10  
 Antenna / TX Freq.: PMAF4005A / 851.0125 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.73 (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: 1.040 mW/g (1g); 0.756 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 851$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.3 V/m; Power Drift = -0.300 dB

Motorola Fast SAR: SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.765 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 36.3 V/m; Power Drift = -0.321 dB

Peak SAR (extrapolated) = 1.11 W/kg

Motorola Fast SAR: SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.748 mW/g

Maximum value of SAR (interpolated) = 1.11 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 36.3 V/m; Power Drift = -0.372 dB

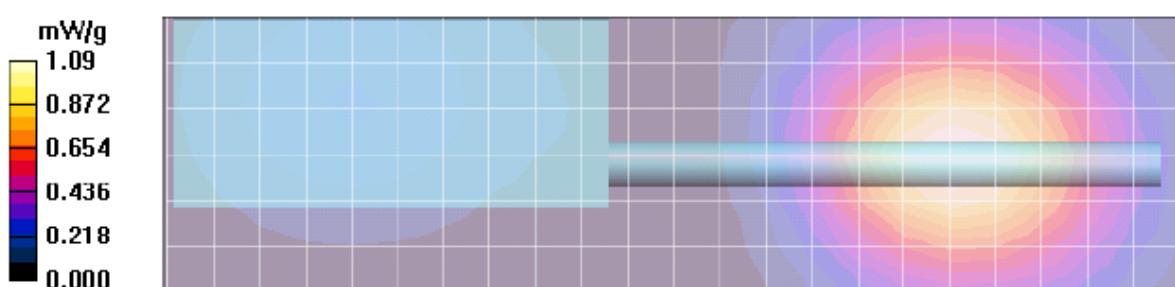
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.756 mW/g

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

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.09 mW/g



**Section 16.0**  
**(866-869 MHz band)**  
**Industry of Canada freq at the Face**  
**Section 13.15 (Table 28)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/24/2011 8:27:32 AM

Robot# / Run#: DASY4-PG-1 / PS-FACE-111124-04  
 Phantom# / Tissue Temp.: ELI4 1028 / 21.0 (C)  
 DUT Model# / Serial#: PMUF1473B / N4RPRD1O  
 Antenna / TX Freq.: PMAF4005A / 869.000 (MHz)  
 Battery: NNTN8287A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 2.73 (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: 1.070 mW/g (1g); 0.771 mW/g (10g)

Comments: Full scan

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(5.94, 5.94, 5.94)

Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 869$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Face Scan/1-Area Scan (61x221x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.3 V/m; Power Drift = -0.153 dB

Motorola Fast SAR: SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.787 mW/g

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

**Face Scan/2-Volume Scan 2D (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 35.3 V/m; Power Drift = -0.194 dB

Peak SAR (extrapolated) = 1.15 W/kg

Motorola Fast SAR: SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.772 mW/g

Maximum value of SAR (interpolated) = 1.15 mW/g

**Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.3 V/m; Power Drift = -0.281 dB

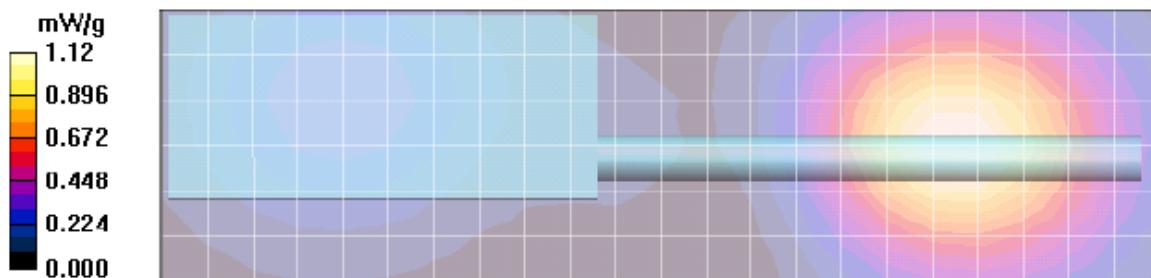
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.771 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

**Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

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



## Appendix H

### DUT Supplementary Data (Power slump)

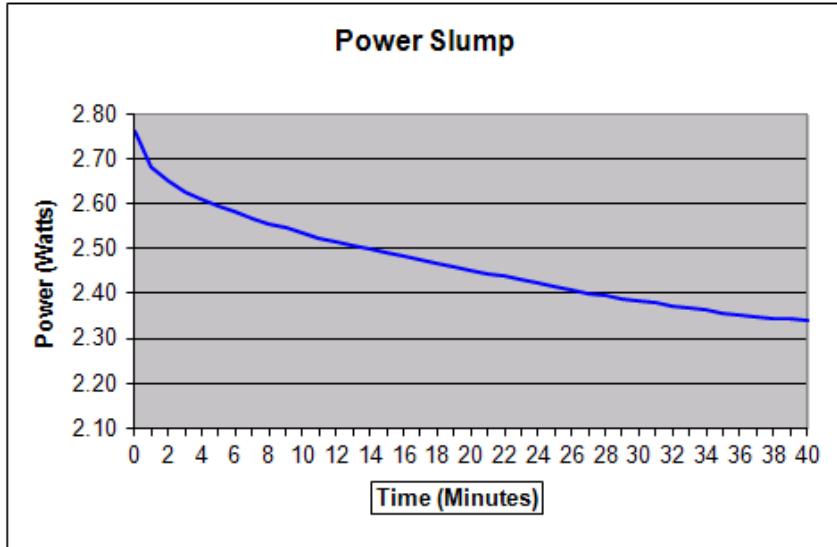
Power Slump Model # : PMUF1473B

Serial # : N4RPRD1P

Battery: NNTN8287A      Transmit Mode: CW  
 Frequency 938 MHz      Audio Accessory: PMLN5275C  
 Date: 11/25/2011

Tx Time      Measure Power  
 (Minutes)      (Watts)

0.0	2.76
1.0	2.68
2.0	2.65
3.0	2.63
4.0	2.61
5.0	2.59
6.0	2.58
7.0	2.57
8.0	2.56
9.0	2.55
10.0	2.54
11.0	2.52
12.0	2.51
13.0	2.51
14.0	2.50
15.0	2.49
16.0	2.48
17.0	2.48
18.0	2.47
19.0	2.46
20.0	2.45
21.0	2.45
22.0	2.44
23.0	2.43
24.0	2.42
25.0	2.41
26.0	2.41
27.0	2.40
28.0	2.40
29.0	2.39
30.0	2.38
31.0	2.38
32.0	2.37
33.0	2.37
34.0	2.36
35.0	2.36
36.0	2.35
37.0	2.35
38.0	2.35
39.0	2.34
40.0	2.34



## Appendix I

### DUT Test Position Photos

Photos available in Exhibit 7B

## **Appendix J**

### **DUT, Body worn and Audio Accessory Photos**

Photos available in Exhibit 7B