


**MOTOROLA SOLUTIONS**

**ACCREDITED**  
 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:** 5/17/12  
**Report Revision:** A  
**Report ID:** SR10288 APX4000 U2 2 of 2 Rev A  
 120517

**Responsible Engineer:** Michael Sailsman (Senior Staff Eng.)  
**Report Author:** Michael Sailsman (Senior Staff Eng.)  
**Date/s Tested:** 2/17/12-3/8/12; 3/16/12  
**Manufacturer/Location:** Penang  
**Sector/Group/Div.:** AESS Astro Engineering Subscriber Solutions  
**Date submitted for test:** 2/02/12  
**DUT Description:** 450 - 520MHz 3-5.6W 6.25kHz/12.5 kHz /25 kHz , Single Display Model full keypad.  
 Capable of digital TDMA and analog FM transmission.

**Test TX mode(s):** CW (PTT)  
**Max. Power output:** 5.6W  
**Nominal Power:** 5.0W  
**Tx Frequency Bands:** 450 - 520 MHz  
**Signaling type:** FM; TDMA  
**Model(s) Tested:** H51SDH9PW7AN (MUE3771)  
**Model(s) Certified:** H51SDH9PW7AN (MUE3771)  
**Serial Number(s):** 426TNB0563, 426TNB0531  
**Classification:** Occupational/Controlled  
**FCC ID:** AZ489FT4909; Rule Part 90 450-512MHz. Results outside this band are not applicable to demonstrate FCC compliance.

\* 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 Zakharia**  
**EMS EME Lab Senior Resource Manager,**  
**Laboratory Director**  
**Approval Date:** 5/18/2012

**Certification Date:** 3/20/2012

**Certification No.:** L1120305P

**Appendix D**  
**System Check Scans**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/17/2012 5:37:45 AM, Date/Time: 2/17/2012 5:42:55 AM, Date/Time: 2/17/2012 5:53:20 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120217-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.02 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: 1.13 mW/g (1g); 0.758 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

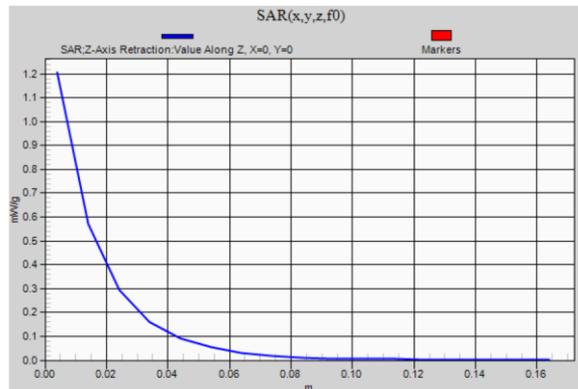
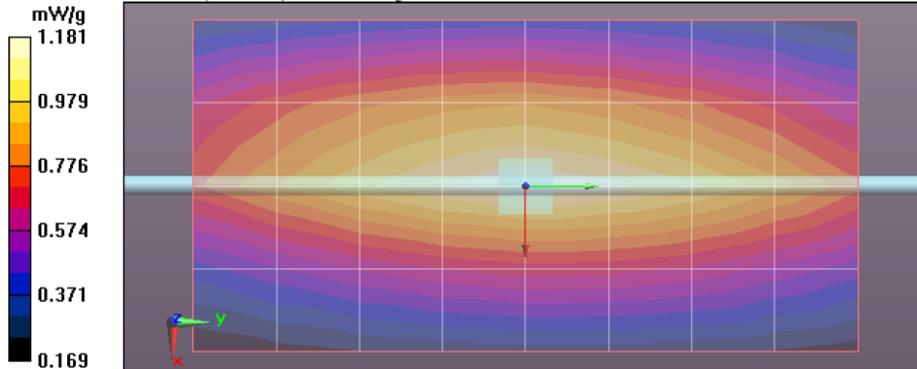
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.181 mW/g

**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 = 35.928 V/m; Power Drift = 0.004 dB  
 Peak SAR (extrapolated) = 1.689 W/kg  
**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.752 mW/g**  
 Maximum value of SAR (measured) = 1.206 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) = 1.205 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/18/2012 12:19:29 AM, Date/Time: 2/18/2012 12:24:38 AM, Date/Time: 2/18/2012 12:33:46 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120218-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.44 mW/g (1g)  
 Percent from Target (+/-): 2.0 % (1g)  
 Rotation (1D): 0.052 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: 1.11 mW/g (1g); 0.736 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

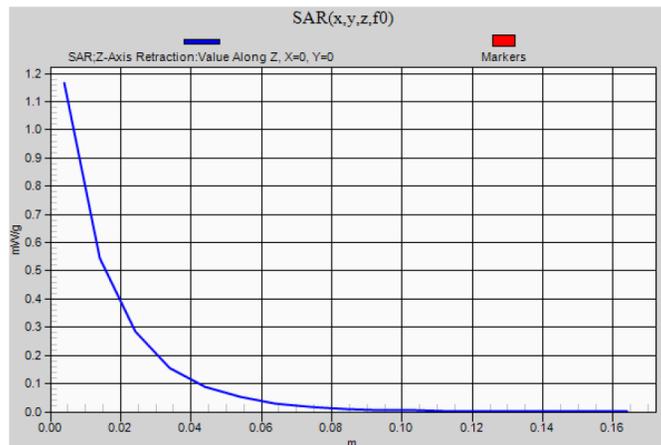
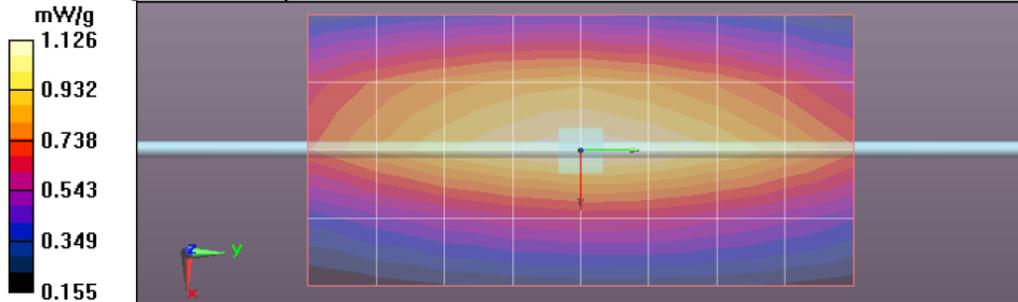
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.126 mW/g

**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 = 35.941 V/m; Power Drift = 0.0097 dB  
 Peak SAR (extrapolated) = 1.628 W/kg  
 SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.727 mW/g  
 Maximum value of SAR (measured) = 1.166 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: 2/19/2012 12:45:28 AM, Date/Time: 2/19/2012 12:50:36 AM, Date/Time: 2/19/2012 12:59:43 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120219-01  
 Phantom# / Tissue Temp.: OVAL1090 / 22.2 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.48 mW/g (1g)  
 Percent from Target (+/-): 1.1 % (1g)  
 Rotation (1D): 0.023 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: 1.12 mW/g (1g); 0.741 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.91$  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):**

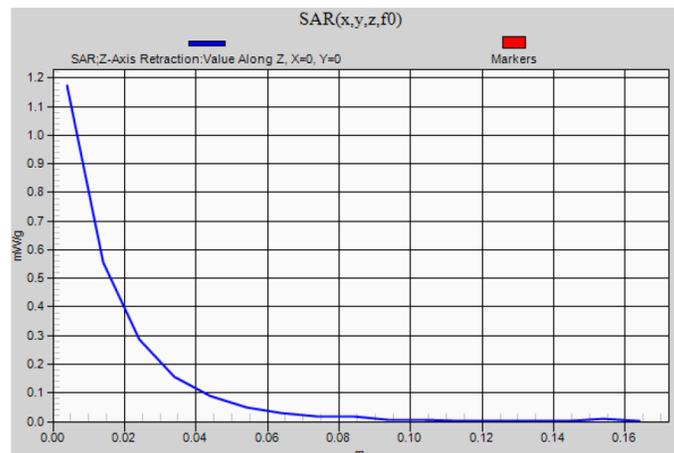
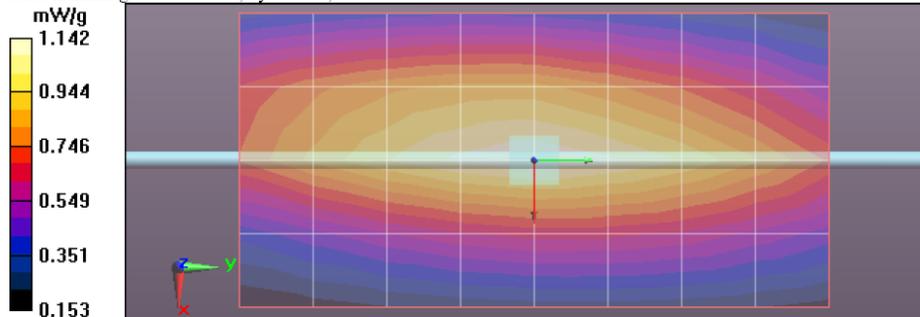
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.142 mW/g

**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 = 35.943 V/m; Power Drift = 0.0097 dB  
 Peak SAR (extrapolated) = 1.656 W/kg  
**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.733 mW/g**  
 Maximum value of SAR (measured) = 1.173 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: 2/20/2012 5:58:13 AM, Date/Time: 2/20/2012 6:03:23 AM, Date/Time: 2/20/2012 6:12:30 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120220-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.015 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: 1.13 mW/g (1g); 0.745 mW/g (10g)

Comments:  
 Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.92$  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):**

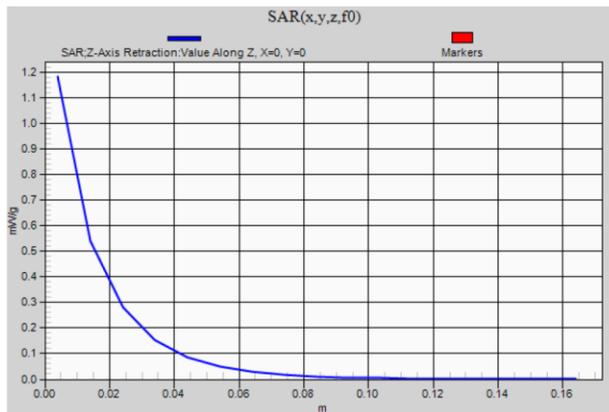
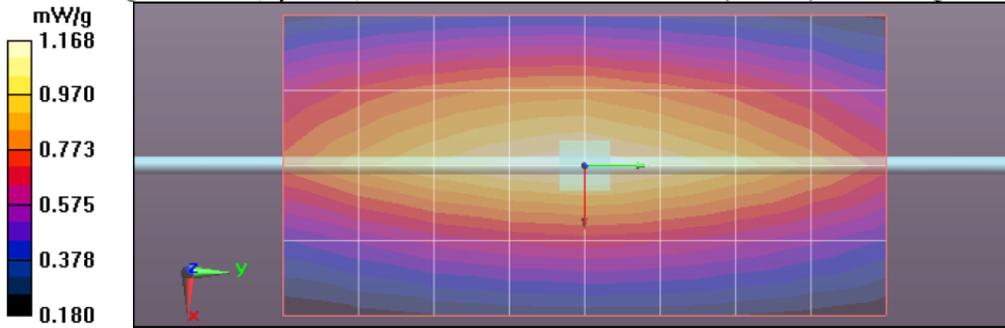
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.168 mW/g

**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 = 35.800 V/m; Power Drift = -0.0022 dB  
 Peak SAR (extrapolated) = 1.656 W/kg  
 SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.733 mW/g  
 Maximum value of SAR (measured) = 1.184 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) = 1.185 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/21/2012 5:41:33 AM, Date/Time: 2/21/2012 5:46:42 AM, Date/Time: 2/21/2012 5:55:50 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120221-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.56 mW/g (1g)  
 Percent from Target (+/-): 0.7 % (1g)  
 Rotation (1D): 0.02 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: 1.14 mW/g (1g); 0.748 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 57.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

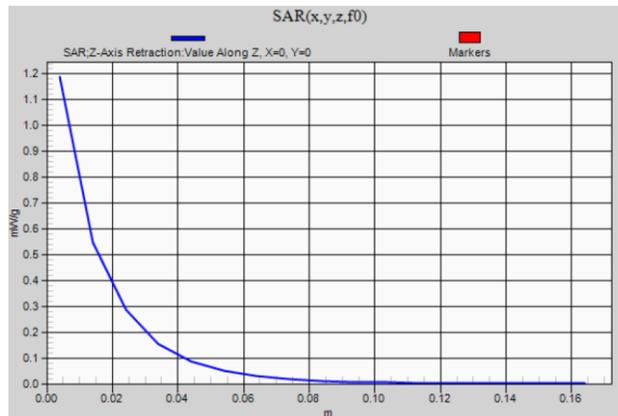
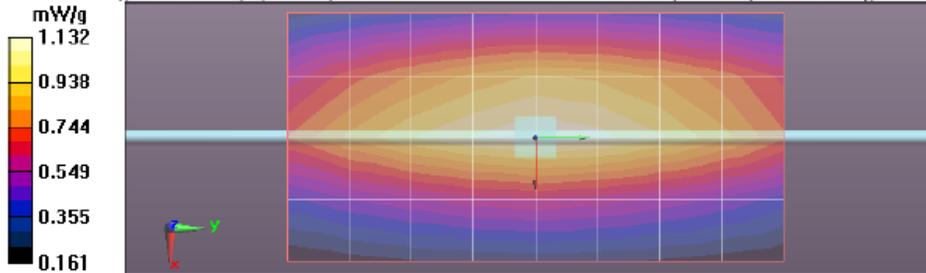
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.132 mW/g

**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 = 36.153 V/m; Power Drift = 0.003 dB  
 Peak SAR (extrapolated) = 1.666 W/kg  
 SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.736 mW/g  
 Maximum value of SAR (measured) = 1.186 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) = 1.189 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/22/2012 5:55:18 AM, Date/Time: 2/22/2012 6:00:27 AM, Date/Time: 2/22/2012 6:09:34 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120222-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.022 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: 1.13 mW/g (1g); 0.752 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 56.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

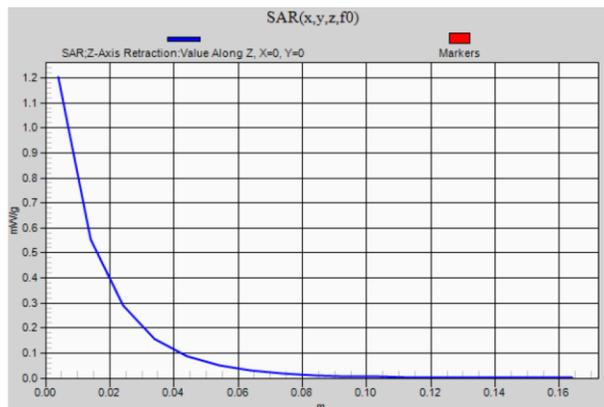
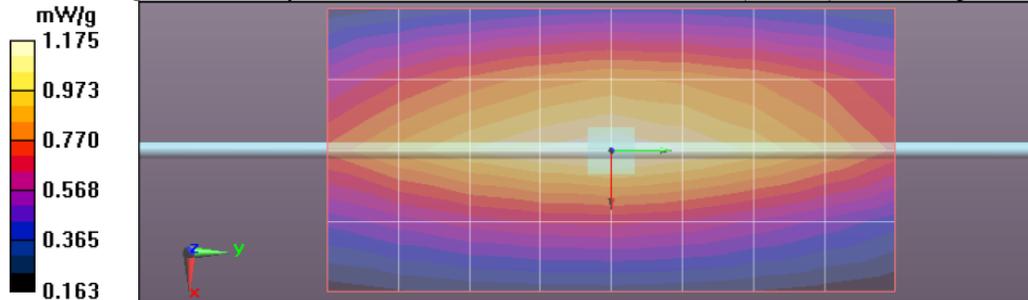
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.175 mW/g

**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 = 36.108 V/m; Power Drift = 0.003 dB  
 Peak SAR (extrapolated) = 1.689 W/kg  
**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.746 mW/g**  
 Maximum value of SAR (measured) = 1.204 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) = 1.203 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/23/2012 5:46:31 AM, Date/Time: 2/23/2012 5:51:41 AM, Date/Time: 2/23/2012 6:00:48 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120223-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.56 mW/g (1g)  
 Percent from Target (+/-): 0.7 % (1g)  
 Rotation (1D): 0.021 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: 1.14 mW/g (1g); 0.755 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

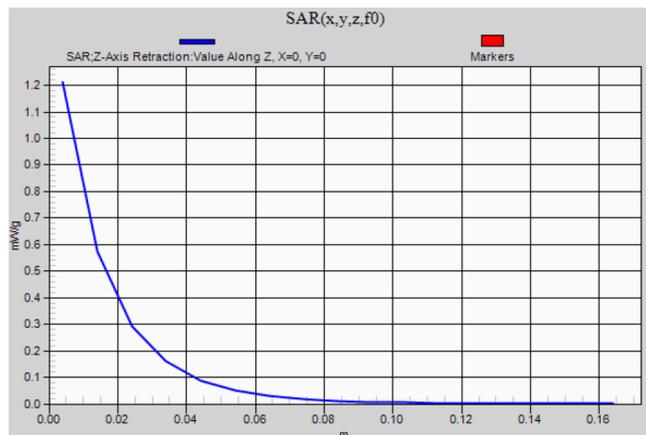
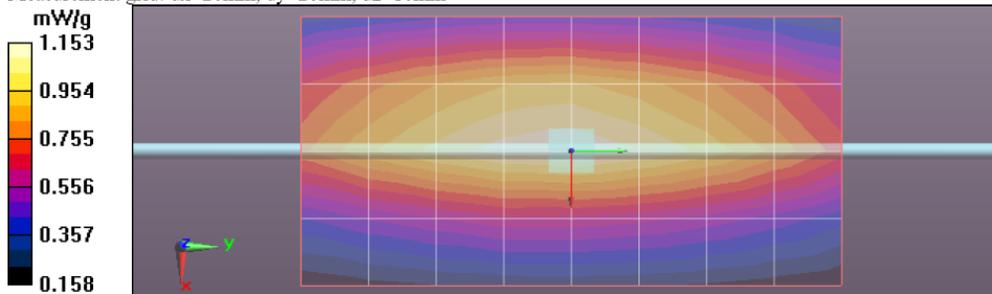
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.153 mW/g

**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 = 36.093 V/m; Power Drift = -0.0068 dB  
 Peak SAR (extrapolated) = 1.690 W/kg  
**SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.753 mW/g**  
 Maximum value of SAR (measured) = 1.212 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: 2/24/2012 5:47:21 AM, Date/Time: 2/24/2012 5:52:30 AM, Date/Time: 2/24/2012 6:01:38 AM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120224-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.60 mW/g (1g)  
 Percent from Target (+/-): 1.5 % (1g)  
 Rotation (1D): 0.015 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: 1.15 mW/g (1g); 0.764 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

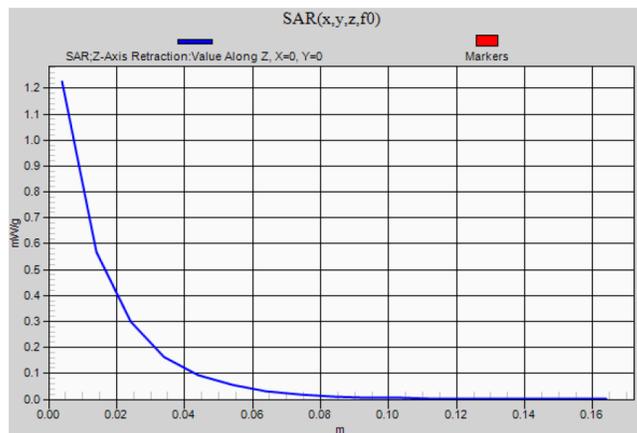
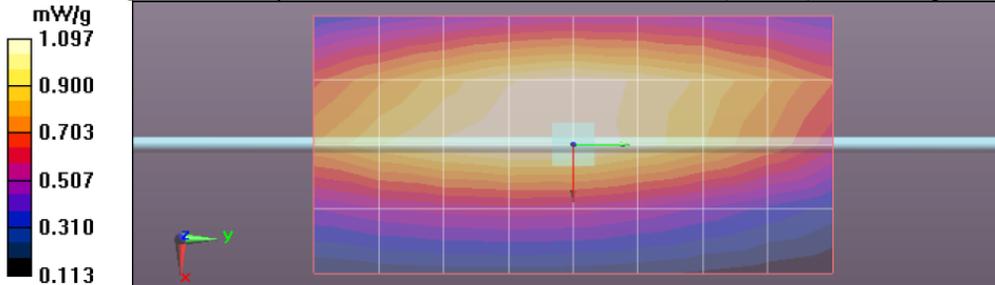
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.097 mW/g

**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 = 36.300 V/m; Power Drift = 0.0058 dB  
 Peak SAR (extrapolated) = 1.713 W/kg  
 SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.762 mW/g  
 Maximum value of SAR (measured) = 1.222 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) = 1.225 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/25/2012 12:19:52 AM, Date/Time: 2/25/2012 12:24:56 AM, Date/Time: 2/25/2012 12:34:00 AM

Robot# / Run#: DASY5-FL-1 / CM-SYSP 450B-120225-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.9 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.56 mW/g (1g)  
 Percent from Target (+/-): 0.7 % (1g)  
 Rotation (1D): 0.018 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: 1.14 mW/g (1g); 0.759 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

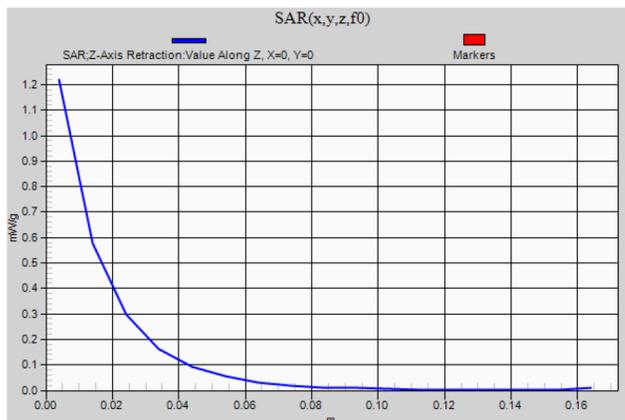
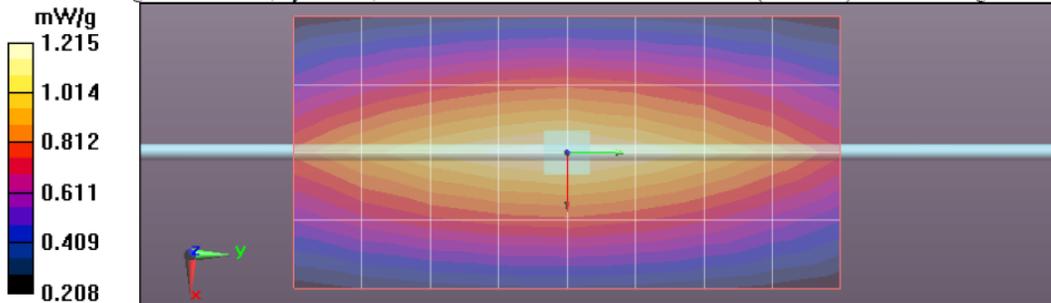
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.215 mW/g

**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 = 36.147 V/m; Power Drift = -0.0008 dB  
 Peak SAR (extrapolated) = 1.708 W/kg  
 SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.757 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) = 1.219 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/5/2012 3:01:13 PM, Date/Time: 3/5/2012 3:08:53 PM, Date/Time: 3/5/2012 3:19:51 PM

Robot# / Run#: DASY5-FL-1 / HvH-SYSP-450B-120305-01  
 Phantom# / Tissue Temp.: OVAL1090 / 22.1 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.20 % (1g)  
 Rotation (1D): 0.017 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: 1.13 mW/g (1g); 0.751 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (41x81x1):**

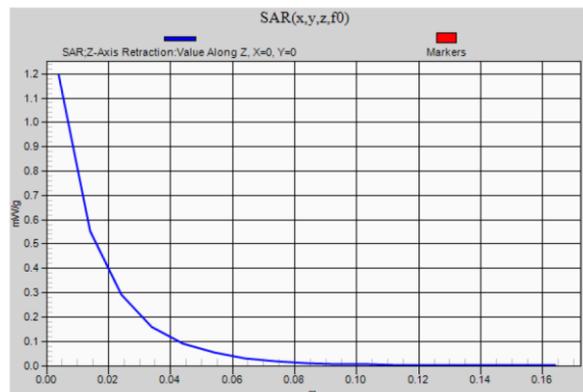
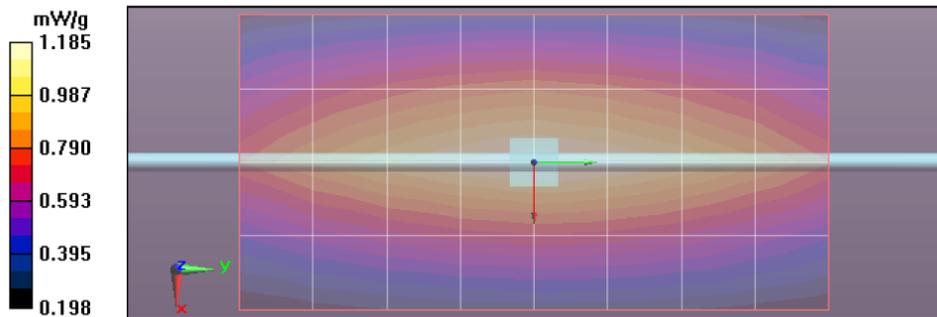
Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 36.211 V/m; Power Drift = -0.0015 dB  
**Motorola Fast SAR: SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.798 mW/g**  
 Maximum value of SAR (interpolated) = 1.192 mW/g

**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 = 36.211 V/m; Power Drift = -0.0015 dB  
 Peak SAR (extrapolated) = 1.683 W/kg  
**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.744 mW/g**  
 Maximum value of SAR (measured) = 1.194 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) = 1.193 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/8/2012 12:43:19 PM, Date/Time: 3/8/2012 12:48:23 PM, Date/Time: 3/8/2012 12:57:27 PM

Robot# / Run#: DASY5-FL-1 / ErC-SYSP 450B-120308-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.7 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.019 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: 1.13 mW/g (1g); 0.748 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Su729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

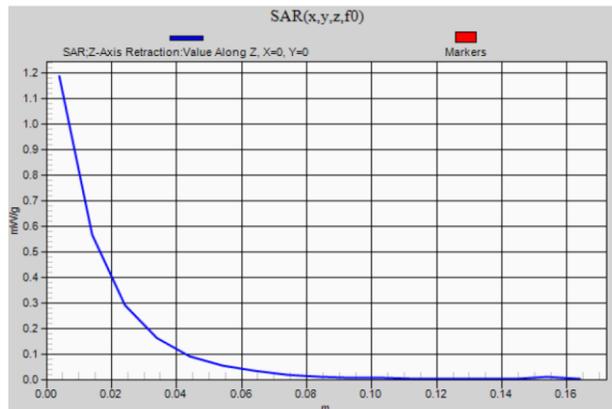
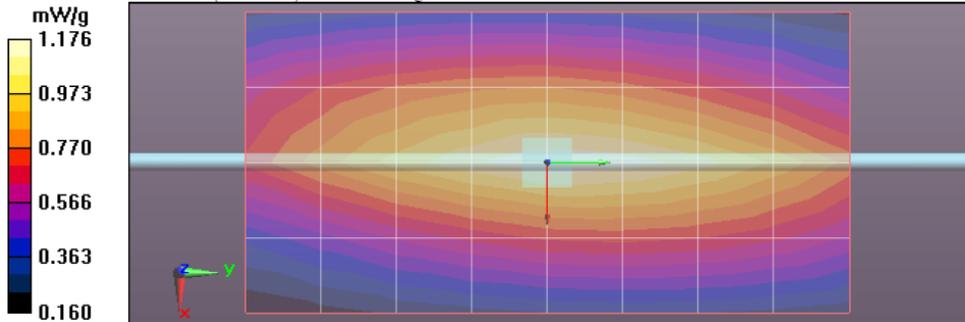
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.176 mW/g

**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 = 36.111 V/m; Power Drift = 0.0019 dB  
 Peak SAR (extrapolated) = 1.672 W/kg  
**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.741 mW/g**  
 Maximum value of SAR (measured) = 1.188 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) = 1.186 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/16/2012 5:35:07 PM, Date/Time: 3/16/2012 5:40:11 PM, Date/Time: 3/16/2012 5:49:16 PM

Robot# / Run#: DASY5-FL-1 / CM-SYSP 450B-120316-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.8 (C)  
 Dipole Model# / Serial#: D450V3 / 1077  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.53 mW/g (1g)  
 Adjusted SAR (1W): 4.52 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.021 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: 1.13 mW/g (1g); 0.754 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.3m/System Performance Check/Dipole Area Scan 2 (41x81x1):**

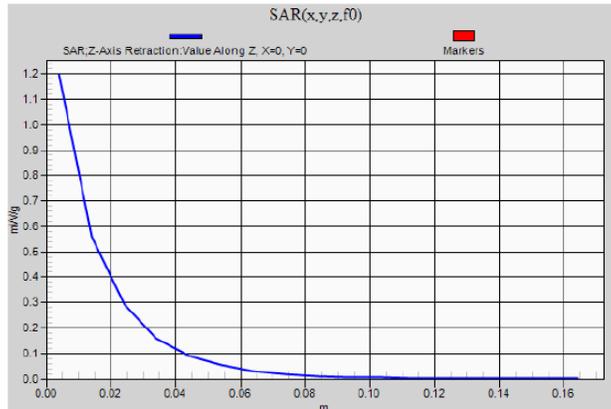
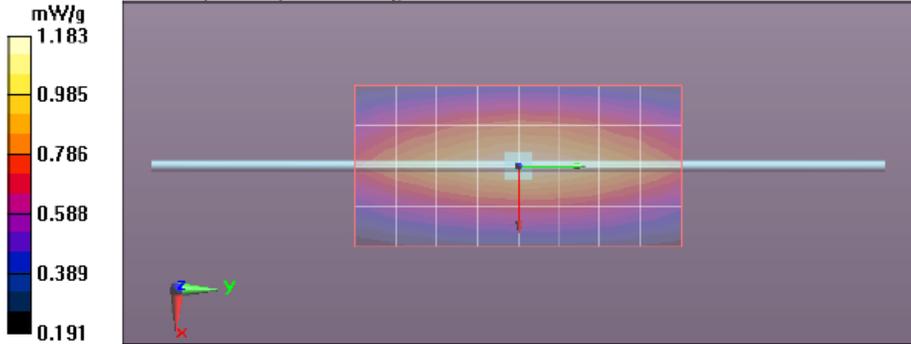
Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 36.067 V/m; Power Drift = -0.0008 dB  
 Motorola Fast SAR: SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.799 mW/g  
 Maximum value of SAR (interpolated) = 1.191 mW/g

**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 = 36.067 V/m; Power Drift = -0.0008 dB  
 Peak SAR (extrapolated) = 1.672 W/kg  
 SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.745 mW/g  
 Maximum value of SAR (measured) = 1.194 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) = 1.196 mW/g



**Appendix E**  
**FCC Part 90 (450-512 MHz band)**  
**DUT Scans (Shortened Scan and Highest SAR configurations)**

## Shortened Scan Result Table 38

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/16/2012 7:17:32 PM, Date/Time: 3/16/2012 7:29:12 PM, Date/Time: 3/16/2012 7:32:18 PM,  
Date/Time: 3/16/2012 7:43:30 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120316-03  
Phantom# / Tissue Temp.: OVAL1090 / 21.8 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE3771) / 426TNB0531  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5111A  
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: 11.81 mW/g (1g); 8.38 mW/g (10g)

Comments: Shortened scan

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 57$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 99.752 V/m; Power Drift = -0.36 dB

Motorola Fast SAR: SAR(1 g) = 10.9 mW/g; SAR(10 g) = 8.01 mW/g

Maximum value of SAR (interpolated) = 11.547 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 = 99.752 V/m; Power Drift = -0.41 dB

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

Motorola Fast SAR: SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.8 mW/g

Maximum value of SAR (interpolated) = 11.439 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) = 11.363 mW/g

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

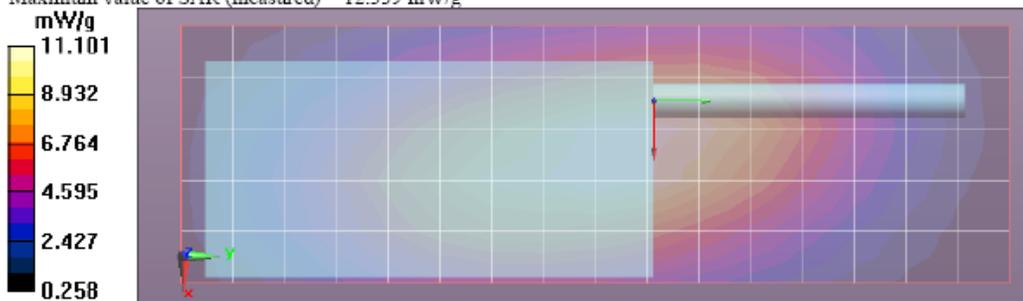
dy=7.5mm, dz=5mm

Reference Value = 99.752 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 16.771 W/kg

SAR(1 g) = 11.7 mW/g; SAR(10 g) = 8.33 mW/g

Maximum value of SAR (measured) = 12.339 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 14 minutes.

Representative full scan run time was 28 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 5.91 mW/g; 10-g Avg. = 4.19 mW/g.

Zoom scan max calculated SAR using SAR drift (see part 1 table 19): 1-g Avg. = 6.46 mW/g; 10-g Avg. = 4.60 mW/g.

## Body - Highest SAR Configuration Result Table 19

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2012 2:44:48 PM, Date/Time: 2/20/2012 2:59:33 PM, Date/Time: 2/20/2012 3:08:49 PM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120220-13  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5111A  
 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: 11.54 mW/g (1g); 8.21 mW/g (10g)

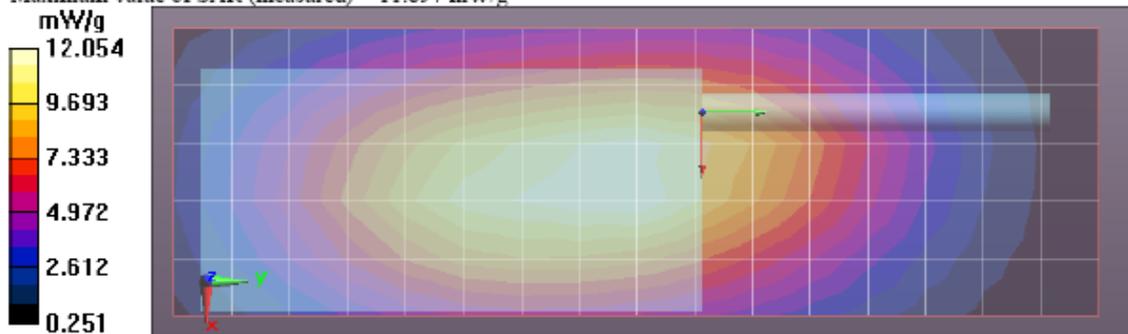
Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 57.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 12.054 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 = 104.3 V/m; Power Drift = -0.49 dB  
 Peak SAR (extrapolated) = 16.388 W/kg  
 SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.13 mW/g  
 Maximum value of SAR (measured) = 12.046 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) = 11.897 mW/g



## Face - Highest SAR Configuration Result Table 36

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/25/2012 8:57:51 AM, Date/Time: 2/25/2012 9:15:00 AM, Date/Time: 2/25/2012 9:22:49 AM

Robot# / Run#: DASY5-FL-1 / ErC-Face-120225-13  
 Phantom# / Tissue Temp.: OVAL1108 / 21.5 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: None / 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: 7.90 mW/g (1g); 5.93 mW/g (10g)

Comments: Front of DUT facing phantom.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.53, 6.53, 6.53)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.84$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 8.282 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 = 99.659 V/m; Power Drift = -0.13 dB

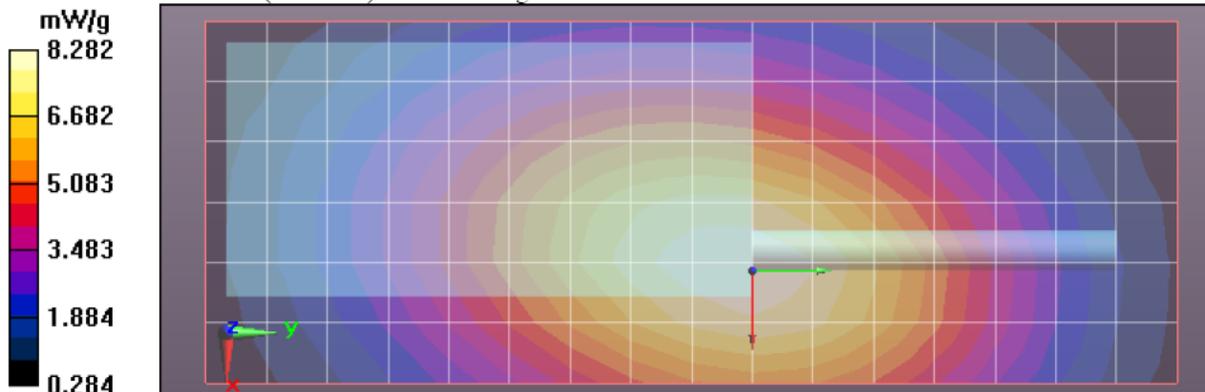
Peak SAR (extrapolated) = 10.093 W/kg

SAR(1 g) = 7.78 mW/g; SAR(10 g) = 5.89 mW/g

Maximum value of SAR (measured) = 8.150 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) = 8.139 mW/g



**Appendix F**  
**DUT Scans - FCC Part 90 (450-512 MHz band)**

## Assessments at the Body with Body worn PMLN4651A Table 13

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2012 1:08:51 AM, Date/Time: 2/18/2012 1:23:33 AM, Date/Time: 2/18/2012 1:31:16 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120218-02  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B  
 Start Power: 5.79 (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:        11.29 mW/g (1g);        7.98 mW/g (10g)

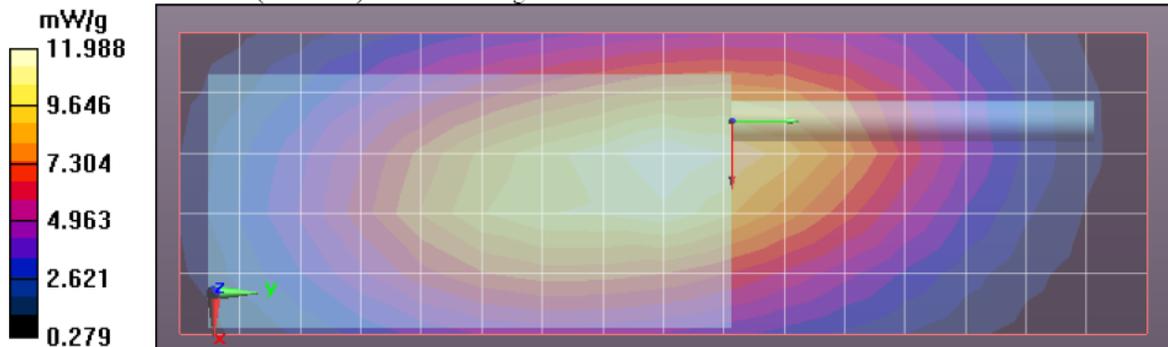
Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.988 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 = 108.9 V/m; Power Drift = -0.47 dB  
 Peak SAR (extrapolated) = 15.926 W/kg  
**SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.9 mW/g**  
 Maximum value of SAR (measured) = 11.774 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) = 11.620 mW/g



## Assessments at the Body with Body worn PMLN7008A

### Table 14

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2012 6:38:17 PM, Date/Time: 2/18/2012 6:49:34 PM, Date/Time: 2/18/2012 6:52:26 PM,  
Date/Time: 2/18/2012 7:00:10 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120218-19  
Phantom# / Tissue Temp.: OVAL1090 / 22.2 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B  
Start Power: 5.87 (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:        11.08 mW/g (1g);    7.84 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 107.8 V/m; Power Drift = -0.29 dB

**Motorola Fast SAR: SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.24 mW/g**

Maximum value of SAR (interpolated) = 12.079 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 = 107.8 V/m; Power Drift = -0.48 dB

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

**Motorola Fast SAR: SAR(1 g) = 11.3 mW/g; SAR(10 g) = 8.09 mW/g**

Maximum value of SAR (interpolated) = 11.917 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 = 107.8 V/m; Power Drift = -0.48 dB

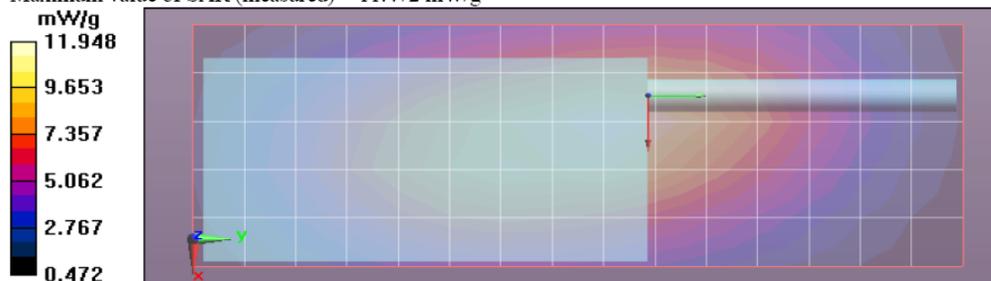
Peak SAR (extrapolated) = 15.790 W/kg

**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.76 mW/g**

Maximum value of SAR (measured) = 11.548 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) = 11.472 mW/g



**Assessments at the body with Body worn PMLN6085A**  
**Table 15**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/8/2012 5:52:18 PM, Date/Time: 3/8/2012 6:04:09 PM, Date/Time: 3/8/2012 6:06:58 PM,  
 Date/Time: 3/8/2012 6:14:41 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120308-06  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN6085A / HMN4104B  
 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: 2.90 mW/g (1g); 2.22 mW/g (10g)

Comments:

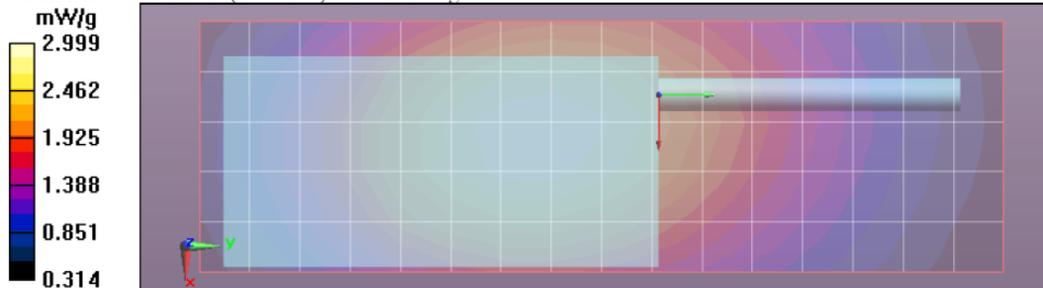
Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn729, Calibrated: 6/20/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 450 MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 55.725 V/m; Power Drift = -0.07 dB  
**Motorola Fast SAR: SAR(1 g) = 2.89 mW/g; SAR(10 g) = 2.16 mW/g**  
 Maximum value of SAR (interpolated) = 3.026 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 = 55.725 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 2.86 mW/g; SAR(10 g) = 2.14 mW/g**  
 Maximum value of SAR (interpolated) = 2.996 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 = 55.725 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 3.715 W/kg  
**SAR(1 g) = 2.85 mW/g; SAR(10 g) = 2.2 mW/g**  
 Maximum value of SAR (measured) = 2.978 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) = 2.957 mW/g



## Assessments at the Body with Body worn PMLN6085A/NTN5243A Table 16

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/8/2012 8:45:55 PM, Date/Time: 3/8/2012 8:57:37 PM, Date/Time: 3/8/2012 9:00:26 PM,  
Date/Time: 3/8/2012 9:08:09 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120308-10  
Phantom# / Tissue Temp.: OVAL1090 / 21.1 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN6085A with NTN5243A / HMN4104B  
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: 5.68 mW/g (1g); 4.26 mW/g (10g)

Comments: Tested without loop, back toward phantom.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 74.585 V/m; Power Drift = -0.17 dB  
**Motorola Fast SAR: SAR(1 g) = 5.71 mW/g; SAR(10 g) = 4.24 mW/g**  
Maximum value of SAR (interpolated) = 5.997 mW/g

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

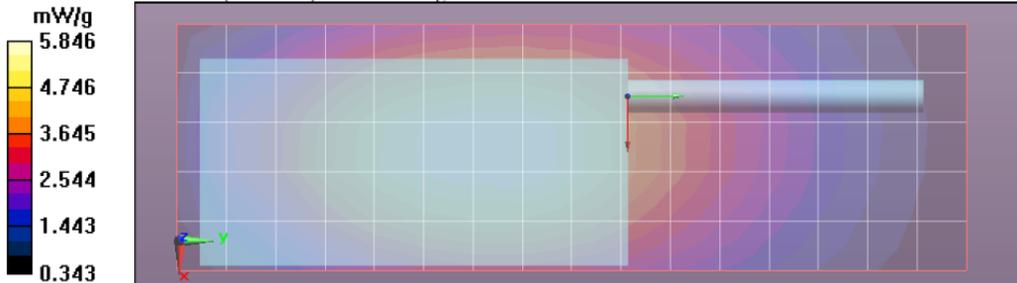
dy=7.5mm, dz=1mm  
Reference Value = 74.585 V/m; Power Drift = -0.26 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 5.63 mW/g; SAR(10 g) = 4.16 mW/g**  
Maximum value of SAR (interpolated) = 5.921 mW/g

**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 = 74.585 V/m; Power Drift = -0.26 dB  
Peak SAR (extrapolated) = 7.462 W/kg  
**SAR(1 g) = 5.59 mW/g; SAR(10 g) = 4.22 mW/g**  
Maximum value of SAR (measured) = 5.840 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) = 5.831 mW/g



## Assessments at the Body with other audio accessories

### Table 17

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2012 6:54:56 AM, Date/Time: 2/20/2012 7:09:44 AM, Date/Time: 2/20/2012 7:20:46 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120220-02  
 Phantom# / Tissue Temp.: OVAL1090 / 21.6 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 481.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B with RMN5116A  
 Start Power: 5.84 (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: 9.80 mW/g (1g); 6.96 mW/g (10g)

#### Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 481$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 57.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.621 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 = 104.1 V/m; Power Drift = -0.73 dB

Peak SAR (extrapolated) = 14.127 W/kg

SAR(1 g) = 9.71 mW/g; SAR(10 g) = 6.9 mW/g

Maximum value of SAR (measured) = 10.310 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) = 9.957 mW/g

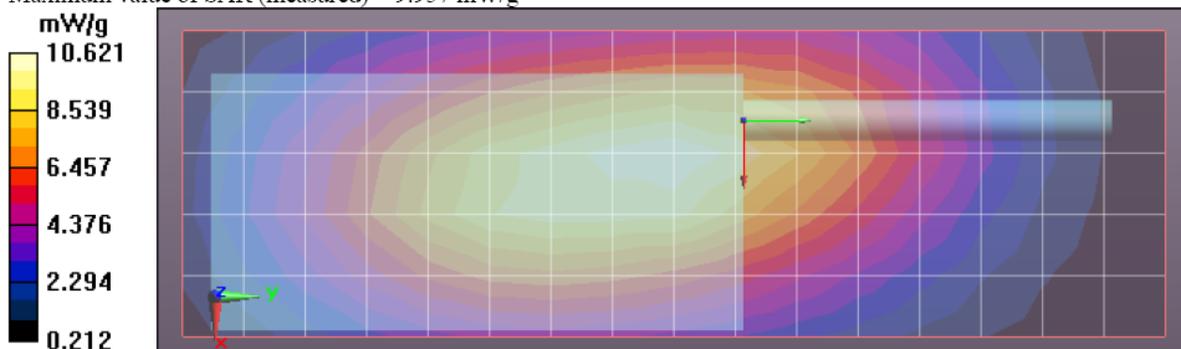


Table 18

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/20/2012 10:14:10 AM, Date/Time: 2/20/2012 10:28:55 AM, Date/Time: 2/20/2012 10:38:11 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120220-07  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / RLN5882A  
 Start Power: 5.86 (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: 9.89 mW/g (1g); 7.06 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 57.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.486 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 = 106.8 V/m; Power Drift = -0.45 dB

Peak SAR (extrapolated) = 14.030 W/kg

SAR(1 g) = 9.77 mW/g; SAR(10 g) = 6.99 mW/g

Maximum value of SAR (measured) = 10.326 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) = 10.139 mW/g

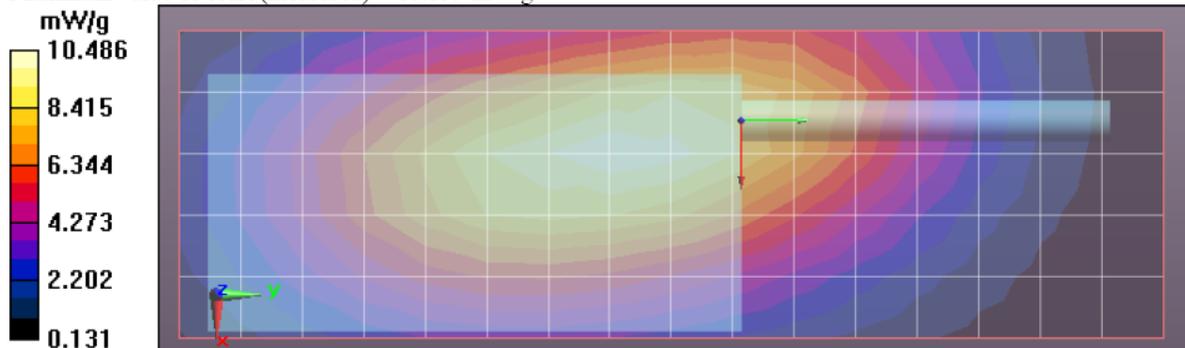


Table 19

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2012 2:44:48 PM, Date/Time: 2/20/2012 2:59:33 PM, Date/Time: 2/20/2012 3:08:49 PM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120220-13  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5111A  
 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: 11.54 mW/g (1g); 8.21 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 57.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 12.054 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 = 104.3 V/m; Power Drift = -0.49 dB

Peak SAR (extrapolated) = 16.388 W/kg

SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.13 mW/g

Maximum value of SAR (measured) = 12.046 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) = 11.897 mW/g

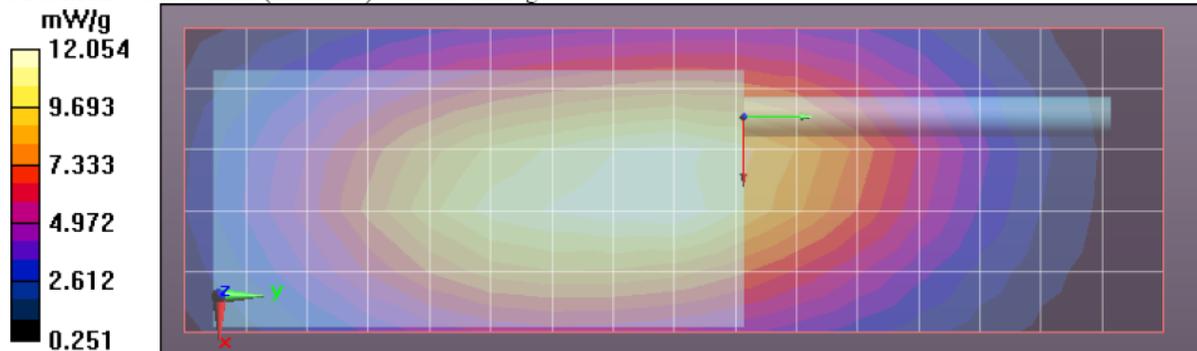


Table 20

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/20/2012 7:09:21 PM, Date/Time: 2/20/2012 7:21:12 PM, Date/Time: 2/20/2012 7:24:04 PM,  
Date/Time: 2/20/2012 7:33:21 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120220-19  
Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMMN4062A  
Start Power: 5.84 (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: 11.04 mW/g (1g); 7.88 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 57.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 108.7 V/m; Power Drift = -0.32 dB

**Motorola Fast SAR: SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.32 mW/g**

Maximum value of SAR (interpolated) = 12.076 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 = 108.7 V/m; Power Drift = -0.54 dB

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

**Motorola Fast SAR: SAR(1 g) = 11.2 mW/g; SAR(10 g) = 8.11 mW/g**

Maximum value of SAR (interpolated) = 11.862 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 = 108.7 V/m; Power Drift = -0.54 dB

Peak SAR (extrapolated) = 15.787 W/kg

**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.8 mW/g**

Maximum value of SAR (measured) = 11.582 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) = 11.394 mW/g

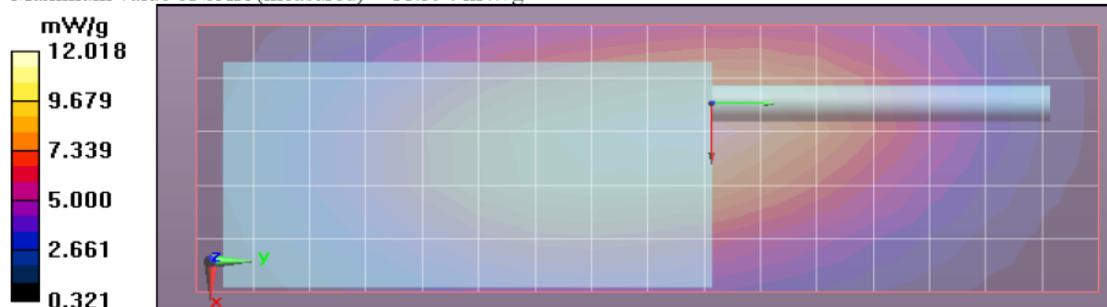


Table 21

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2012 11:36:38 PM, Date/Time: 2/20/2012 11:48:29 PM, Date/Time: 2/20/2012 11:51:22 PM,  
Date/Time: 2/20/2012 11:59:05 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120220-25  
Phantom# / Tissue Temp.: OVAL1090 / 20.9 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMMN4065A  
Start Power: 5.85 (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: 11.04 mW/g (1g); 7.82 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 57.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 110.8 V/m; Power Drift = -0.41 dB

**Motorola Fast SAR: SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.37 mW/g**

Maximum value of SAR (interpolated) = 12.179 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 = 110.8 V/m; Power Drift = -0.61 dB

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

**Motorola Fast SAR: SAR(1 g) = 11.2 mW/g; SAR(10 g) = 8.08 mW/g**

Maximum value of SAR (interpolated) = 11.829 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 = 110.8 V/m; Power Drift = -0.61 dB

Peak SAR (extrapolated) = 15.606 W/kg

**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.74 mW/g**

Maximum value of SAR (measured) = 11.471 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) = 11.345 mW/g

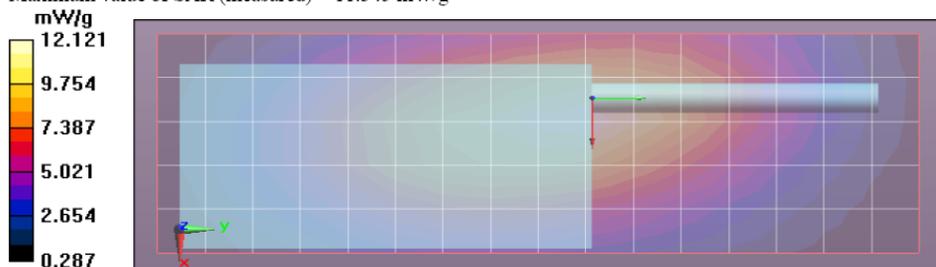


Table 22

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/21/2012 9:39:44 AM, Date/Time: 2/21/2012 9:54:30 AM, Date/Time: 2/21/2012 10:02:13 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120221-07  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMMN4024A  
 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: 11.10 mW/g (1g); 7.91 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 12.256 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 = 98.666 V/m; Power Drift = -0.50 dB  
 Peak SAR (extrapolated) = 15.794 W/kg  
**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.81 mW/g**  
 Maximum value of SAR (measured) = 11.655 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) = 11.488 mW/g

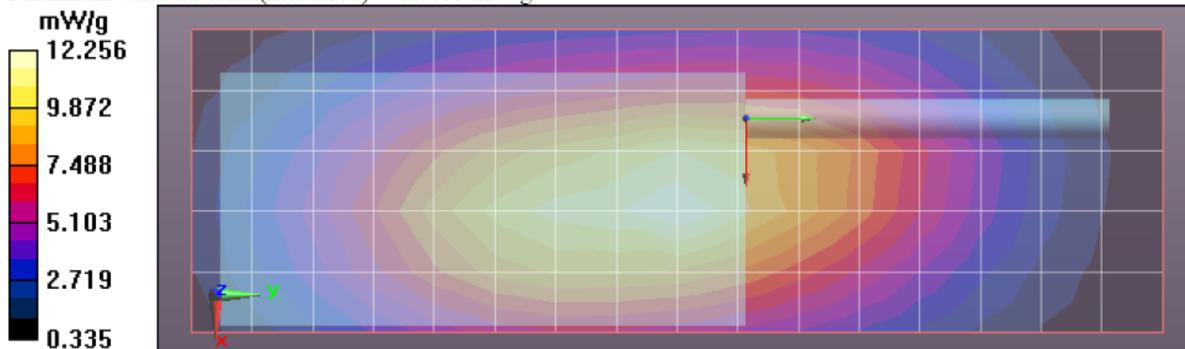


Table 23

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/21/2012 1:19:22 PM, Date/Time: 2/21/2012 1:34:08 PM, Date/Time: 2/21/2012 1:41:54 PM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120221-13  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5101A  
 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: 10.90 mW/g (1g); 7.71 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 12.061 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 = 95.251 V/m; Power Drift = -0.48 dB

Peak SAR (extrapolated) = 15.398 W/kg

SAR(1 g) = 10.7 mW/g; SAR(10 g) = 7.61 mW/g

Maximum value of SAR (measured) = 11.385 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) = 11.241 mW/g

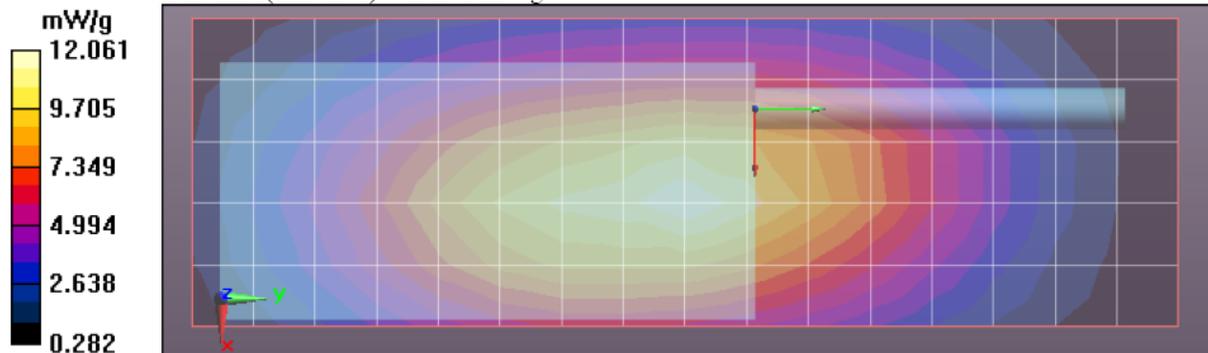


Table 24

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/21/2012 10:23:02 PM, Date/Time: 2/21/2012 10:34:55 PM, Date/Time: 2/21/2012 10:37:47 PM,  
Date/Time: 2/21/2012 10:45:30 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120221-19  
Phantom# / Tissue Temp.: OVAL1090 / 21.0 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5275C  
Start Power: 5.87 (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: 10.59 mW/g (1g); 7.55 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 104.2 V/m; Power Drift = -0.27 dB

**Motorola Fast SAR: SAR(1 g) = 10.7 mW/g; SAR(10 g) = 7.82 mW/g**

Maximum value of SAR (interpolated) = 11.299 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 = 104.2 V/m; Power Drift = -0.43 dB

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

**Motorola Fast SAR: SAR(1 g) = 10.6 mW/g; SAR(10 g) = 7.67 mW/g**

Maximum value of SAR (interpolated) = 11.203 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 = 104.2 V/m; Power Drift = -0.43 dB

Peak SAR (extrapolated) = 14.859 W/kg

**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.46 mW/g**

Maximum value of SAR (measured) = 11.014 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) = 10.892 mW/g

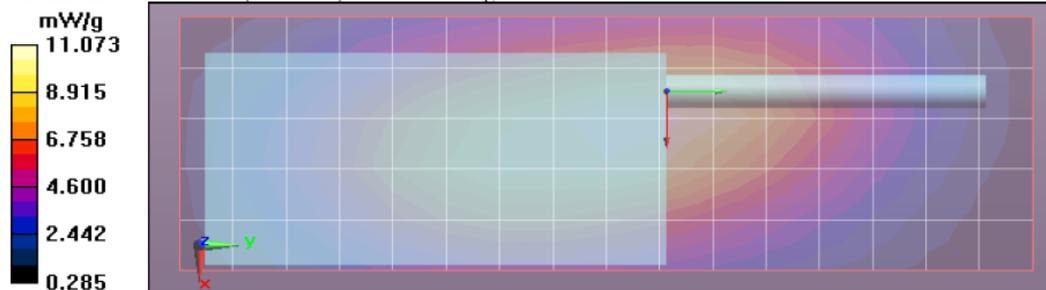


Table 25

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/22/2012 8:48:19 AM, Date/Time: 2/22/2012 9:03:05 AM, Date/Time: 2/22/2012 9:10:49 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120222-05  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / RMN5058A  
 Start Power: 5.87 (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: 10.67 mW/g (1g); 7.61 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.136 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 = 102.6 V/m; Power Drift = -0.53 dB  
 Peak SAR (extrapolated) = 15.298 W/kg  
**SAR(1 g) = 10.6 mW/g; SAR(10 g) = 7.58 mW/g**  
 Maximum value of SAR (measured) = 11.275 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) = 11.039 mW/g

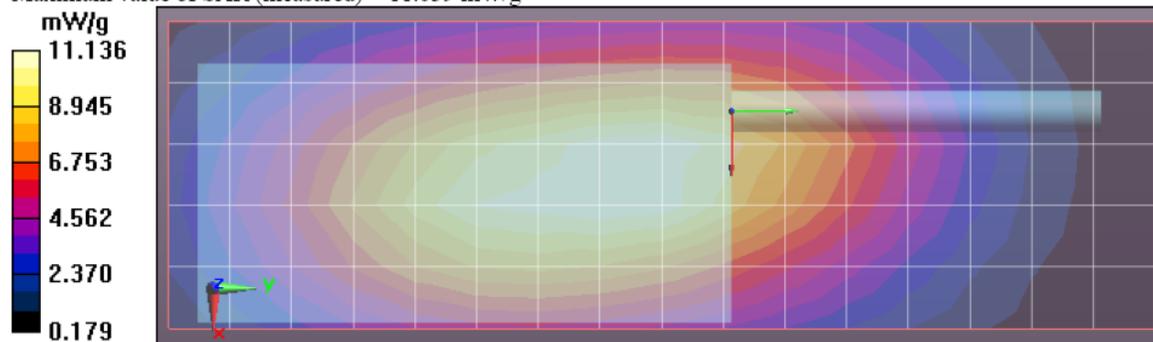


Table 26

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/22/2012 1:23:13 PM, Date/Time: 2/22/2012 1:37:58 PM, Date/Time: 2/22/2012 1:45:41 PM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120222-11  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMMN4040A  
 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: 10.87 mW/g (1g); 7.73 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.434 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 = 102.7 V/m; Power Drift = -0.50 dB  
 Peak SAR (extrapolated) = 15.580 W/kg  
**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.7 mW/g**  
 Maximum value of SAR (measured) = 11.496 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) = 11.302 mW/g

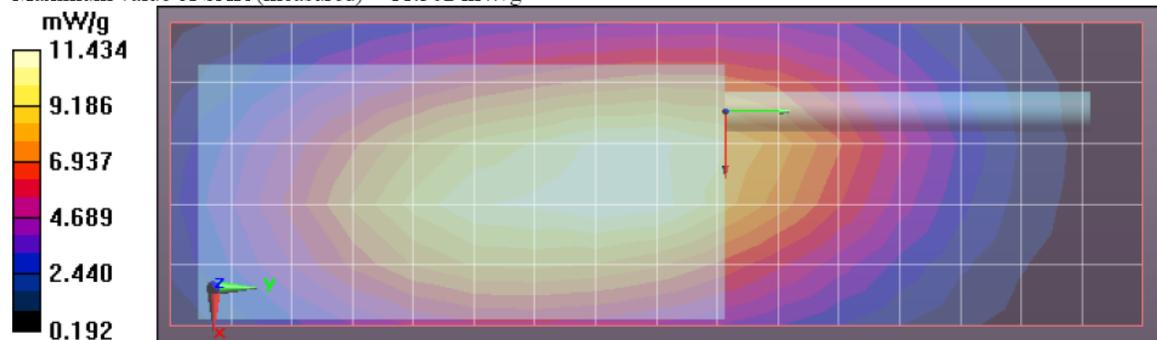


Table 27

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/22/2012 6:22:01 PM, Date/Time: 2/22/2012 6:33:56 PM, Date/Time: 2/22/2012 6:36:48 PM,  
Date/Time: 2/22/2012 6:44:33 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120222-19  
Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 496.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMMN4046A  
Start Power: 5.82 (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: 10.14 mW/g (1g); 7.17 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 497$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 56.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 100.7 V/m; Power Drift = -0.43 dB

**Motorola Fast SAR: SAR(1 g) = 10.7 mW/g; SAR(10 g) = 7.77 mW/g**

Maximum value of SAR (interpolated) = 11.314 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 = 100.7 V/m; Power Drift = -0.64 dB

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

**Motorola Fast SAR: SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.45 mW/g**

Maximum value of SAR (interpolated) = 11.010 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 = 100.7 V/m; Power Drift = -0.64 dB

Peak SAR (extrapolated) = 14.570 W/kg

**SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.15 mW/g**

Maximum value of SAR (measured) = 10.707 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) = 10.601 mW/g

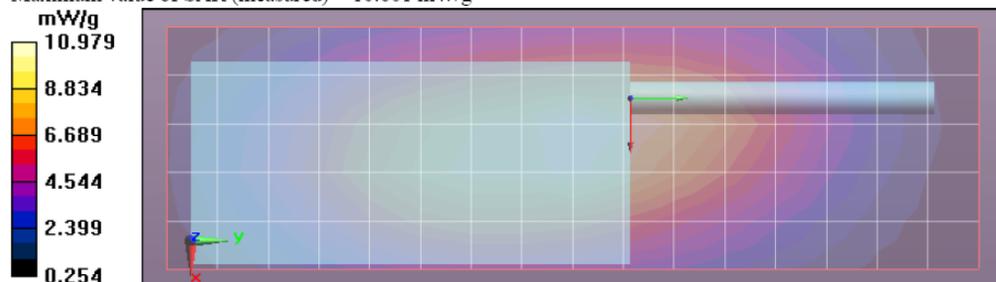


Table 28

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/22/2012 8:56:43 PM, Date/Time: 2/22/2012 9:08:37 PM, Date/Time: 2/22/2012 9:11:29 PM,  
Date/Time: 2/22/2012 9:19:15 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120222-23  
Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMMN4050A  
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: 10.87 mW/g (1g); 7.77 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 102.6 V/m; Power Drift = -0.32 dB

**Motorola Fast SAR: SAR(1 g) = 11.3 mW/g; SAR(10 g) = 8.26 mW/g**

Maximum value of SAR (interpolated) = 11.903 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 = 102.6 V/m; Power Drift = -0.50 dB

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

**Motorola Fast SAR: SAR(1 g) = 11.1 mW/g; SAR(10 g) = 8 mW/g**

Maximum value of SAR (interpolated) = 11.769 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 = 102.6 V/m; Power Drift = -0.50 dB

Peak SAR (extrapolated) = 15.587 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.74 mW/g**

Maximum value of SAR (measured) = 11.534 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) = 11.359 mW/g

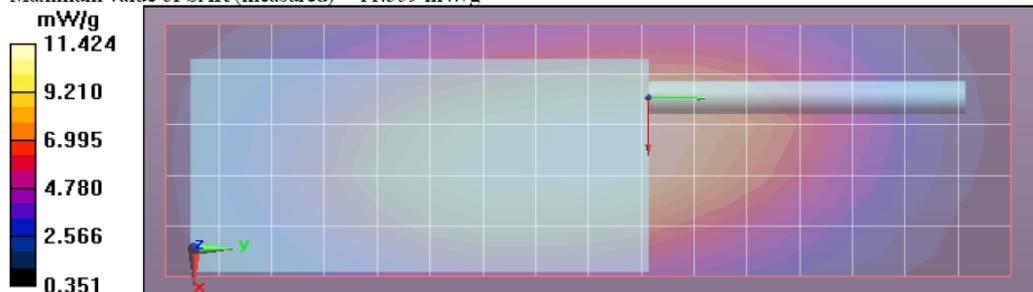


Table 29

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/23/2012 8:35:07 AM, Date/Time: 2/23/2012 8:49:52 AM, Date/Time: 2/23/2012 8:57:37 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120223-05  
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5102A  
 Start Power: 5.87 (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: 9.96 mW/g (1g); 7.09 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.778 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 = 105.2 V/m; Power Drift = -0.49 dB

Peak SAR (extrapolated) = 14.330 W/kg

SAR(1 g) = 9.95 mW/g; SAR(10 g) = 7.09 mW/g

Maximum value of SAR (measured) = 10.540 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) = 10.374 mW/g

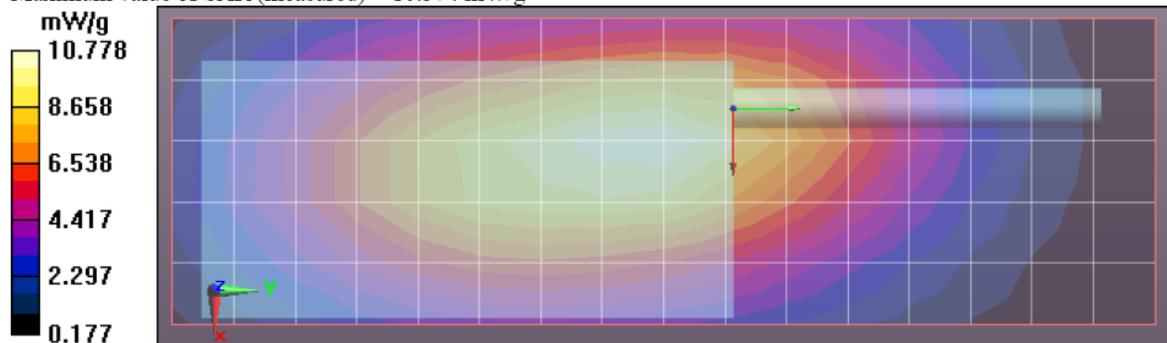


Table 30

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/23/2012 1:22:01 PM, Date/Time: 2/23/2012 1:36:44 PM, Date/Time: 2/23/2012 1:47:47 PM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120223-12  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 481.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5096B  
 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: 9.25 mW/g (1g); 6.58 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 481$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.911 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 = 92.874 V/m; Power Drift = -0.67 dB

Peak SAR (extrapolated) = 13.425 W/kg

SAR(1 g) = 9.25 mW/g; SAR(10 g) = 6.58 mW/g

Maximum value of SAR (measured) = 9.861 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) = 9.519 mW/g

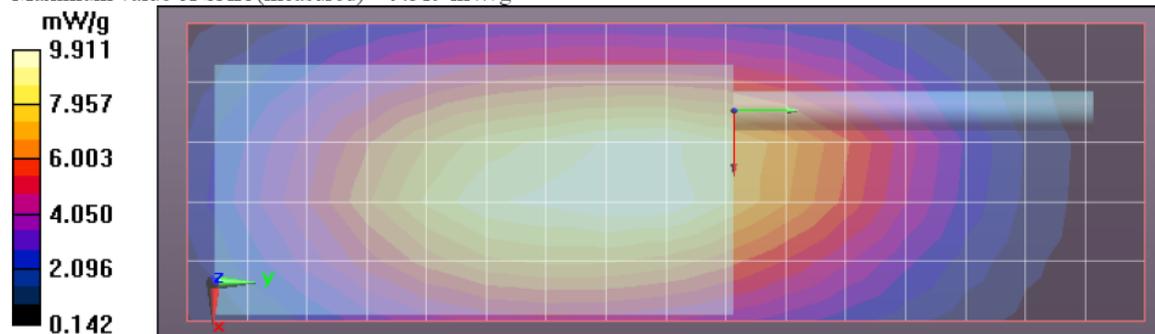


Table 31

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/23/2012 9:24:28 PM, Date/Time: 2/23/2012 9:36:21 PM, Date/Time: 2/23/2012 9:39:13 PM,  
Date/Time: 2/23/2012 9:50:16 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120223-17  
Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5097A  
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: 9.87 mW/g (1g); 7.08 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 101.7 V/m; Power Drift = -0.32 dB

**Motorola Fast SAR: SAR(1 g) = 10.2 mW/g; SAR(10 g) = 7.49 mW/g**

Maximum value of SAR (interpolated) = 10.836 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 = 101.7 V/m; Power Drift = -0.57 dB

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

**Motorola Fast SAR: SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.32 mW/g**

Maximum value of SAR (interpolated) = 10.723 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 = 101.7 V/m; Power Drift = -0.57 dB

Peak SAR (extrapolated) = 14.068 W/kg

**SAR(1 g) = 9.86 mW/g; SAR(10 g) = 7.08 mW/g**

Maximum value of SAR (measured) = 10.400 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) = 10.109 mW/g

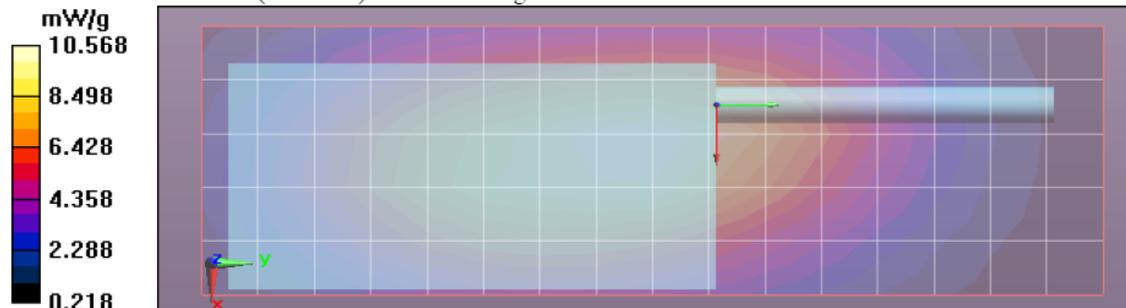


Table 32

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/24/2012 7:57:54 AM, Date/Time: 2/24/2012 8:12:29 AM, Date/Time: 2/24/2012 8:20:11 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120224-04  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5106A  
 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: 10.91 mW/g (1g); 7.84 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.792 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 = 100.7 V/m; Power Drift = -0.51 dB  
 Peak SAR (extrapolated) = 15.666 W/kg  
**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.84 mW/g**  
 Maximum value of SAR (measured) = 11.637 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) = 11.473 mW/g

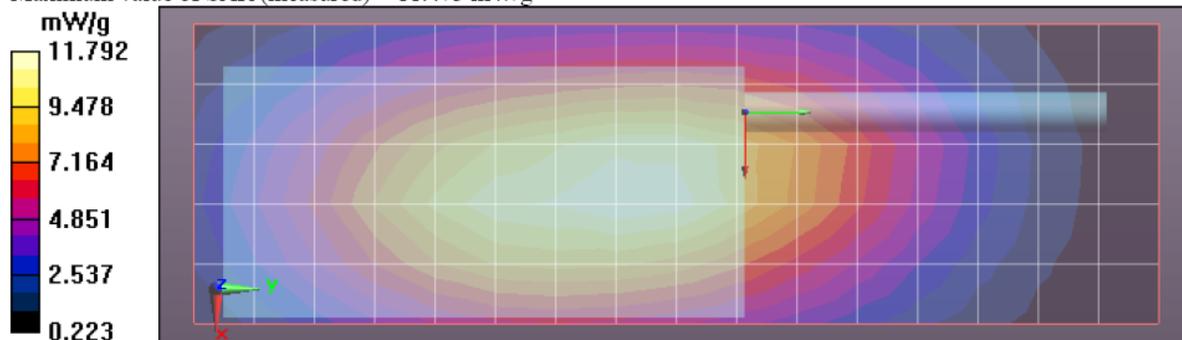


Table 33

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/24/2012 11:28:27 AM, Date/Time: 2/24/2012 11:42:58 AM, Date/Time: 2/24/2012 11:50:41 AM

Robot# / Run#: DASY5-FL-1 / ErC-Ab-120224-10  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 465.5000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5653A  
 Start Power: 5.87 (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: 10.41 mW/g (1g); 7.42 mW/g (10g)

## Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)

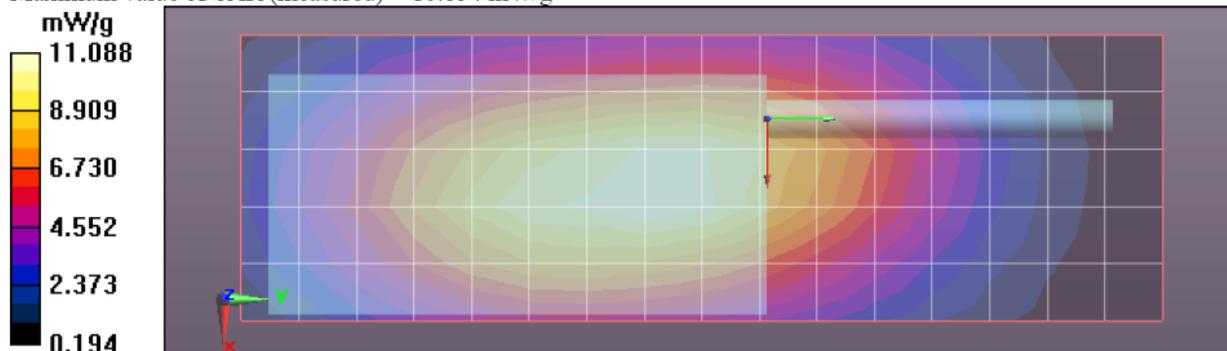
Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 466$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.088 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 = 99.811 V/m; Power Drift = -0.51 dB  
 Peak SAR (extrapolated) = 14.885 W/kg  
**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.42 mW/g**  
 Maximum value of SAR (measured) = 10.989 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) = 10.854 mW/g



## Assessment at the Face Table 36

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/25/2012 8:57:51 AM, Date/Time: 2/25/2012 9:15:00 AM, Date/Time: 2/25/2012 9:22:49 AM

Robot# / Run#: DASY5-FL-1 / ErC-Face-120225-13  
 Phantom# / Tissue Temp.: OVAL1108 / 21.5 (C)  
 DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
 Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: None / 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: 7.90 mW/g (1g); 5.93 mW/g (10g)

Comments: Front of DUT facing phantom.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.53, 6.53, 6.53)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.84$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 8.282 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 = 99.659 V/m; Power Drift = -0.13 dB

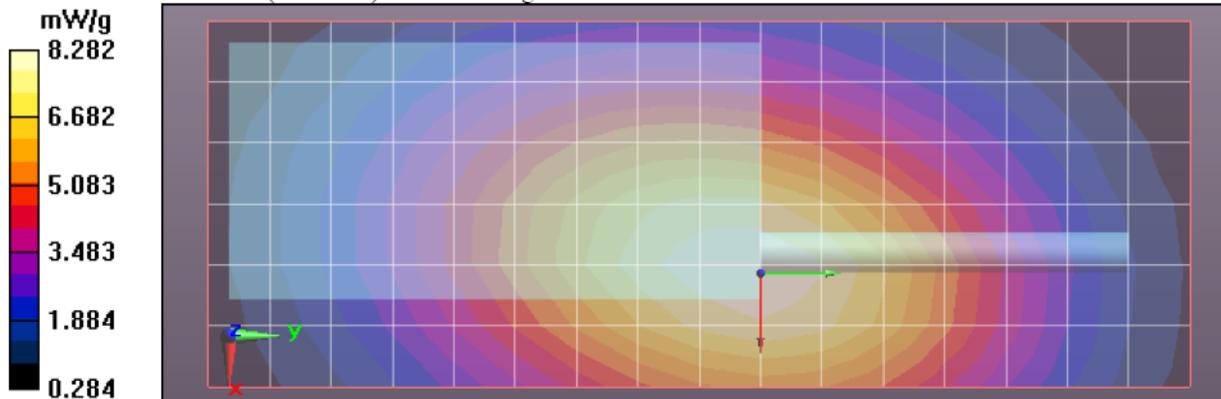
Peak SAR (extrapolated) = 10.093 W/kg

SAR(1 g) = 7.78 mW/g; SAR(10 g) = 5.89 mW/g

Maximum value of SAR (measured) = 8.150 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) = 8.139 mW/g



**Appendix G**  
**DUT Scans – Outside FCC Part 90 (512-520 MHz band)**

## Assessment outside FCC Part 90 at the body (512-520 MHz)

### Table 34

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/16/2012 8:06:15 PM, Date/Time: 3/16/2012 8:17:56 PM, Date/Time: 3/16/2012 8:20:46 PM,  
Date/Time: 3/16/2012 8:28:27 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-120316-04  
Phantom# / Tissue Temp.: OVAL1090 / 21.8 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE3771) / 426TNB0531  
Antenna / TX Freq.: FAF5260A / 512.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5111A  
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: 5.43 mW/g (1g); 3.85 mW/g (10g)

**Comments:**

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 513$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 56.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 70.588 V/m; Power Drift = -0.27 dB

Motorola Fast SAR: SAR(1 g) = 5.52 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.835 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 = 70.588 V/m; Power Drift = -0.37 dB

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

Motorola Fast SAR: SAR(1 g) = 5.53 mW/g; SAR(10 g) = 3.96 mW/g

Maximum value of SAR (interpolated) = 5.870 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 = 70.588 V/m; Power Drift = -0.37 dB

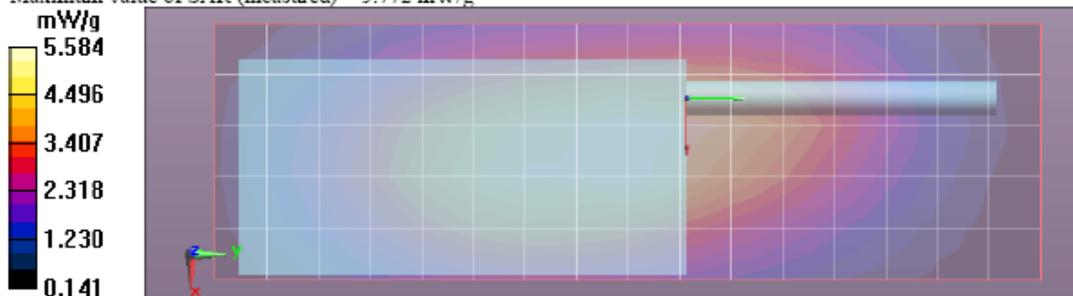
Peak SAR (extrapolated) = 7.921 W/kg

SAR(1 g) = 5.43 mW/g; SAR(10 g) = 3.85 mW/g

Maximum value of SAR (measured) = 5.794 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) = 5.772 mW/g



**Assessment outside FCC Part 90 at the face (512-520 MHz)**  
**Table 37**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/25/2012 3:06:18 PM, Date/Time: 2/25/2012 3:20:31 PM, Date/Time: 2/25/2012 3:23:29 PM,  
Date/Time: 2/25/2012 3:31:18 PM

Robot# / Run#: DASY5-FL-1 / CM-Face-120225-15  
Phantom# / Tissue Temp.: OVAL1108 / 21.6 (C)  
DUT Model# / Serial#: H51SDH9PW7AN (MUE4080) / 426TNB0563  
Antenna / TX Freq.: FAF5260A / 512.5000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: None / 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: 4.65 mW/g (1g); 3.49 mW/g (10g)

Comments: Front of DUT facing phantom.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.53, 6.53, 6.53)

Electronics: DAE4 Sn729, Calibrated: 6/20/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 513$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 41.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (61x161x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 76.159 V/m; Power Drift = -0.34 dB

**Motorola Fast SAR: SAR(1 g) = 4.87 mW/g; SAR(10 g) = 3.61 mW/g**

Maximum value of SAR (interpolated) = 5.109 mW/g

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

Reference Value = 76.159 V/m; Power Drift = -0.45 dB

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

**Motorola Fast SAR: SAR(1 g) = 4.72 mW/g; SAR(10 g) = 3.5 mW/g**

Maximum value of SAR (interpolated) = 4.958 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 = 76.159 V/m; Power Drift = -0.45 dB

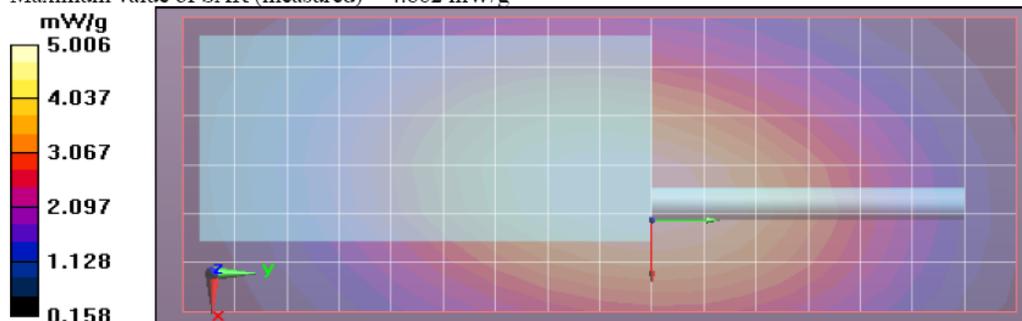
Peak SAR (extrapolated) = 6.045 W/kg

**SAR(1 g) = 4.65 mW/g; SAR(10 g) = 3.49 mW/g**

Maximum value of SAR (measured) = 4.867 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) = 4.862 mW/g



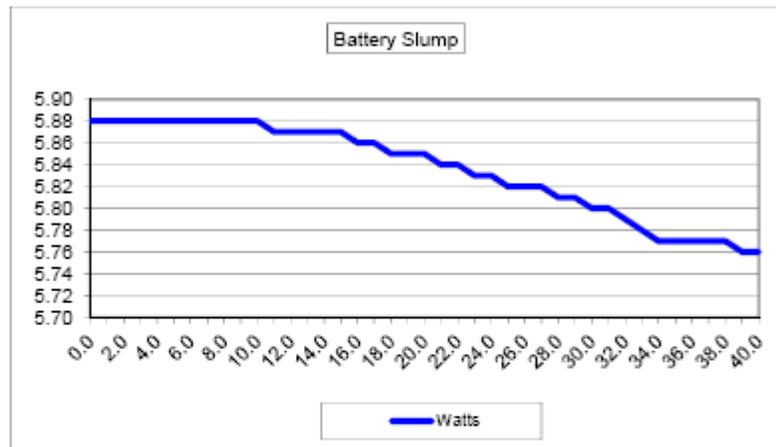
## APPENDIX H DUT Supplementary Data (Power slump)

**H51SDH9PW7AN (MUE3771)  
426TNB0531**

<b>Battery</b> NNTN8128A	<b>Transmit Mode</b> CW
<b>Frequency</b> 465.5 MHz	<b>Audio Accessory</b> None
<b>Date</b> 3/6/2012	

<b>TX TIME</b>	<b>Measured Power</b>
(minutes)	Watts

0.0	5.88
1.0	5.88
2.0	5.88
3.0	5.88
4.0	5.88
5.0	5.88
6.0	5.88
7.0	5.88
8.0	5.88
9.0	5.88
10.0	5.88
11.0	5.87
12.0	5.87
13.0	5.87
14.0	5.87
15.0	5.87
16.0	5.86
17.0	5.86
18.0	5.85
19.0	5.85
20.0	5.85
21.0	5.84
22.0	5.84
23.0	5.83
24.0	5.83
25.0	5.82
26.0	5.82
27.0	5.82
28.0	5.81
29.0	5.81
30.0	5.80
31.0	5.80
32.0	5.79
33.0	5.78
34.0	5.77
35.0	5.77
36.0	5.77
37.0	5.77
38.0	5.77
39.0	5.76
40.0	5.76



**Appendix I**  
**DUT Test Position Photos**

**Photos available in Exhibit 7B**

**Appendix J**  
**DUT, Body worn and audio accessories Photos**

**Photos available in Exhibit 7B**