



**DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2**

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

**Date of Report:** 7/10/2012  
**Report Revision:** C  
**Report ID:** SR9935 EWP 3200  
 Rev C 120710

**Responsible Engineer:** Stephen Whalen (Principal Staff Engineer)  
**Report Author:** Pei Loo Tey (EME Engineer); Deanna Zakharia  
**Date/s Tested:** 2/07/2012-2/18/2012  
**Manufacturer/Location:** Motorola Solutions, Israel  
**Sector/Group/Div.:** MSI  
**Date submitted for test:** 11/08/2011  
**DUT Description:** VoWLAN (Semi-Rugged) is a VoIP phone based on WLAN a/b/g/n. It also includes a Bluetooth transceiver and a camera.

**Test TX mode(s):** 802.11 a/b 25%; BlueTooth 34%  
**Max. Power output:** 10mW for BT; 79.3mW for WLAN 802.11b; 70.8mW for WLAN 802.11g/n @ channels 2-10; 31.62mW for WLAN 802.11g/n @ channels 1 & 11; 79.3mW (6Mbps) for WLAN 802.11a/n Middle and Upper Bands, 39.8mW (6Mbps) for WLAN 802.11a/n Lower Band  
**Nominal Power:** BT:5mW; WLAN:802.11a/n: Lower Band 28.2mW (6Mbps) , Middle and Upper Bands 56.2mW (6 Mbps); WLAN 802.11b: 63mW (11Mbps), WLAN 802.11g/n 17.8mW (54 Mbps)  
**Tx Frequency Bands:** BT:2402-2480MHz; WLAN b/g/n:2412-2462MHz, WLAN a/n. 5180MHz, 5200MHz; 5220MHz, 5240MHz; 5260MHz, 5280MHz, 5300MHz, 5320MHz; 5500MHz, 5520MHz, 5540MHz, 5560MHz, 5580MHz, 5600MHz, 5620MHz, 5640MHz, 5660MHz, 5680MHz, 5700MHz, 5745MHz, 5765MHz, 5785MHz, 5805MHz; 5825MHz  
**Signaling type:** GMSK Modulation, FHSS (Bluetooth); DSSS (802.11 a/b/g/n), OFDM  
**Model(s) Tested:** EWP3200  
**Model(s) Certified:** EWP3200  
**Serial Number(s):** 847SMN0038  
**Classification:** General Population/Uncontrolled Environment  
**FCC ID:** AZ489FT7051; Rule part 15  
**IC ID:** 109U-89FT7051

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

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 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 2.0 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:** 7/10/2012

**Certification Date:** 6/28/2012

**Certification No.:** L1120608P

## Appendix D

### Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificate for dipoles D2450V2 S/N 704 and D5GHzV2 S/N 1017 are not used due to the following:

-- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.

-- SPEAG calibration certificate indicates that the allowed tolerance for the dipole is higher than +/- 10% (e.g. 53.4 +/- 17.0% at k=2 for the D2450V2 S/N 704 and 77.3 +/-17.0%, 83.2 +/-17.0%, 77.2 +/-17.0% at k=2 for the D5GHzV2 S/N 1017 at 5200MHz, 5500MHz and 5800MHz for the 1g-SAR).

-- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 12% at k=2 at 2450MHz and 13.1%, at k=2 at 5200MHz, 5500MHz and 5800MHz for the probes being used to assess this product).

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

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

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

Note that the target set for the tested dipoles, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the differences between this result and the result from the manufacture's dipole calibration certificates are 3.6% for D2450V2 S/N 704 dipole and 5.2% at 5200MHz, 5.8% at 5500MHz and 6.7% at 5800MHz for D5GHzV2 S/N 1017 dipole which are well within the measurement uncertainty of the measurement system at k=2.

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

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Date/Time: 2/7/2012 6:53:00 AM, Date/Time: 2/7/2012 6:58:34 AM, Date/Time: 2/7/2012 7:20:14 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200B-120207-01  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.8 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power.: 5200 (MHz) / 15 (mW)

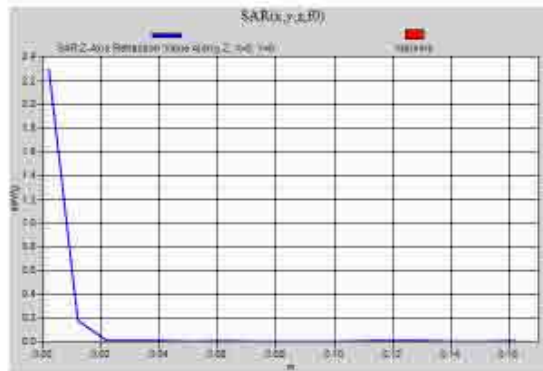
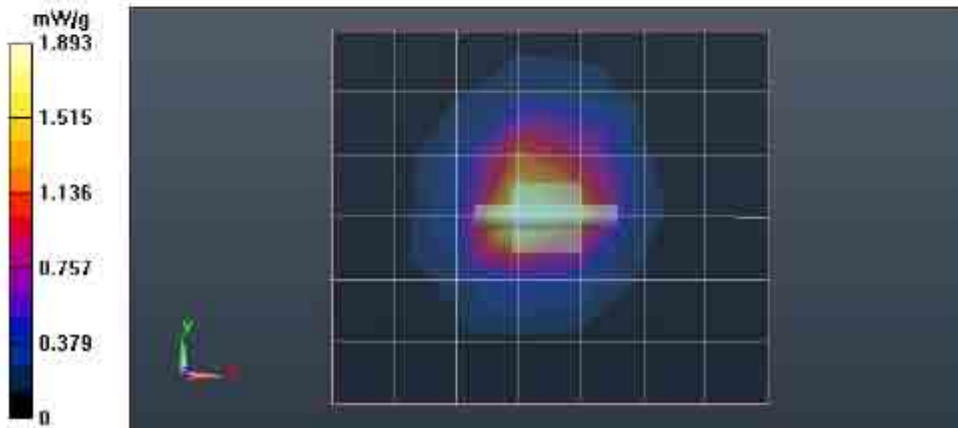
Target SAR (1W): 80.00 mW/g (1g)  
 Adjusted SAR (1W): 78.67 mW/g (1g)  
 Percent from Target (+/-): 1.7 % (1g)  
 Rotation (1D): 0.1 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.18 mW/g (1g); 0.340 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.1, 4.1, 4.1)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.93$  mho/m;  $\epsilon_r = 48.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 1.893 mW/g  
**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**  
 Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 22.737 V/m; Power Drift = -0.10 dB  
 Peak SAR (extrapolated) = 3.607 W/kg  
 SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.341 mW/g  
 Maximum value of SAR (measured) = 2.230 mW/g  
**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.295 mW/g



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Date/Time: 2/8/2012 7:02:55 AM, Date/Time: 2/8/2012 7:08:01 AM, Date/Time: 2/8/2012 7:29:00 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200H-120208-01  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.3 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 81.33 mW/g (1g)  
 Adjusted SAR (1W): 86.67 mW/g (1g)  
 Percent from Target (+/-): 6.6 % (1g)  
 Rotation (1D): 0.12 dB

Note  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.30 mW/g (1g), 0.365 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(5.15, 5.15, 5.15)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.9$  mho/m;  $\epsilon_r = 33.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.523 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

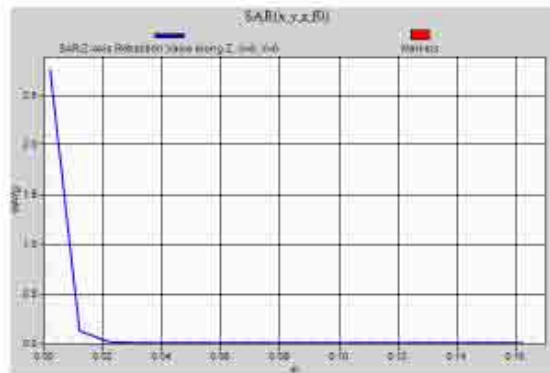
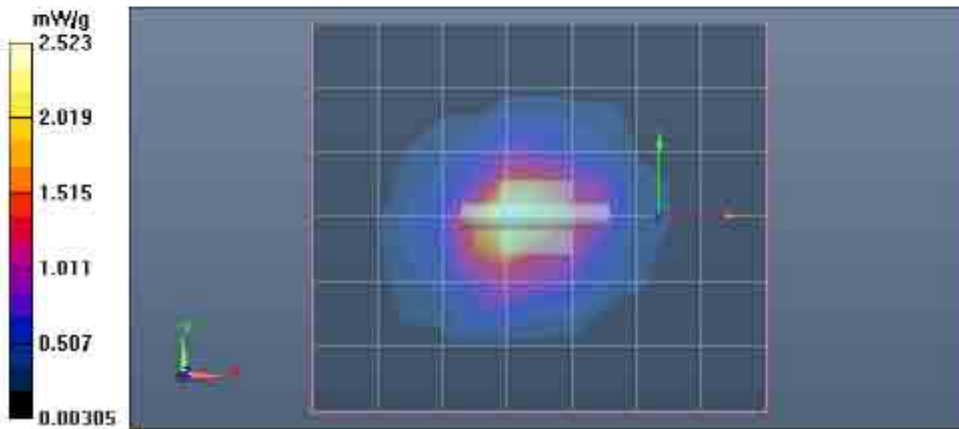
Reference Value = 24.627 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 5.365 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.369 mW/g

Maximum value of SAR (measured) = 2.724 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.753 mW/g



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Date/Time: 2/8/2012 2:24:13 PM, Date/Time: 2/8/2012 2:29:55 PM, Date/Time: 2/8/2012 2:51:33 PM

Robot# / Rm#: DASY5-FL-2 / JsT-SYSP-5500B-120208-07  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 22.1 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 86.00 mW/g (1g)  
 Adjusted SAR (1W): 90.67 mW/g (1g)  
 Percent from Target (+/-): 5.4 % (1g)  
 Rotation (1D): 0.13 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.36 mW/g (1g); 0.393 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.53, 3.53, 3.53)  
 Electronics: DAE4 Su850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.66$  nS/m;  $\epsilon_r = 48.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.149 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

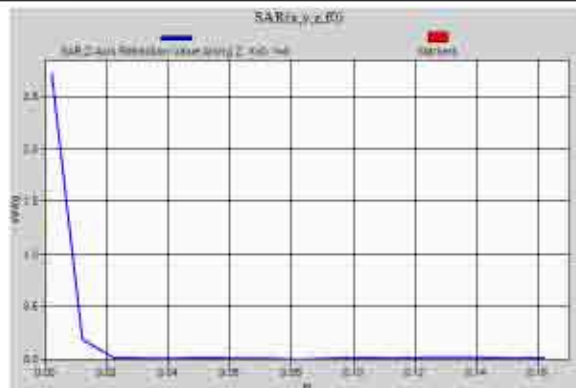
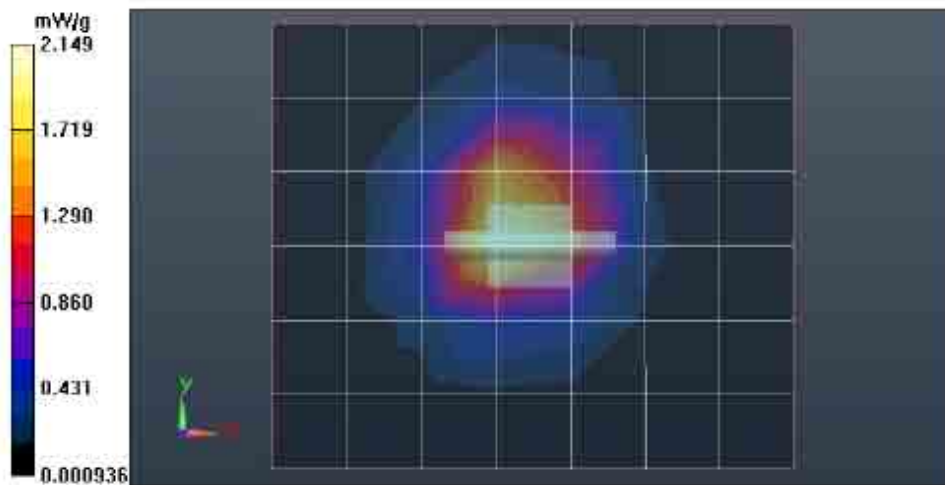
Reference Value = 23.534 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.294 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.394 mW/g

Maximum value of SAR (measured) = 2.608 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.719 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 8:43:13 AM, Date/Time: 2/9/2012 8:48:17 AM, Date/Time: 2/9/2012 9:09:12 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200H-120209-03  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.0 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 81.33 mW/g (1g)  
 Adjusted SAR (1W): 84.00 mW/g (1g)  
 Percent from Target (+/-): 3.3 % (1g)  
 Rotation (1D): 0.095 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.26 mW/g (1g); 0.356 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(5.15, 5.15, 5.15)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5200 MHz;  $\sigma = 4.94$  mho/m;  $\epsilon_r = 34.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

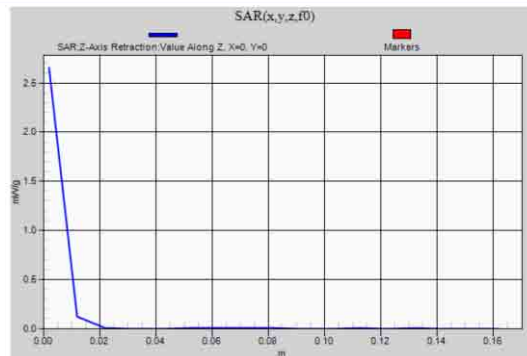
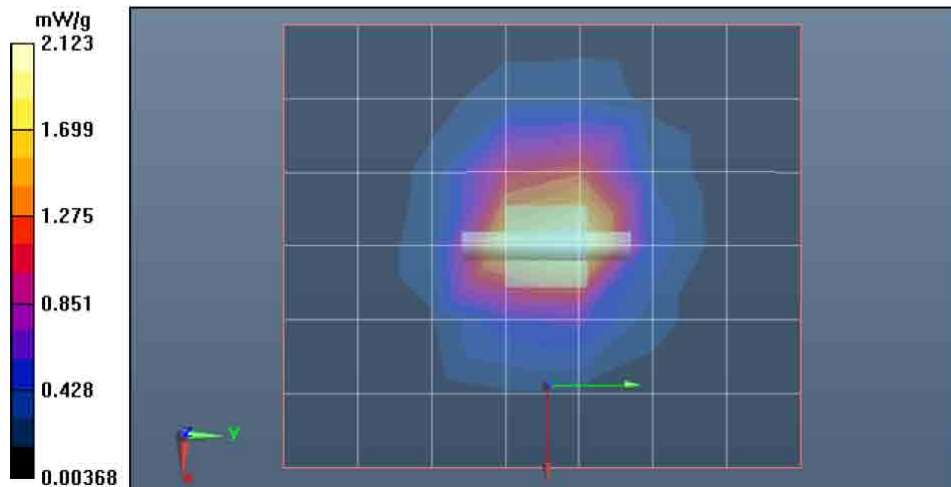
**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.123 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 24.718 V/m; Power Drift = -0.031 dB  
 Peak SAR (extrapolated) = 5.188 W/kg  
 SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.359 mW/g  
 Maximum value of SAR (measured) = 2.642 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.655 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 6:51:11 AM, Date/Time: 2/9/2012 6:56:17 AM, Date/Time: 2/9/2012 7:17:15 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500H-120209-01  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.1 (C)  
 Dipole Model# / Serial#: D5GHZV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 88.00 mW/g (1g)  
 Adjusted SAR (1W): 94.00 mW/g (1g)  
 Percent from Target (+/-): 6.8 % (1g)  
 Rotation (1D): 0.14 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.41 mW/g (1g); 0.394 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.38, 4.38, 4.38)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5500 MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 33.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

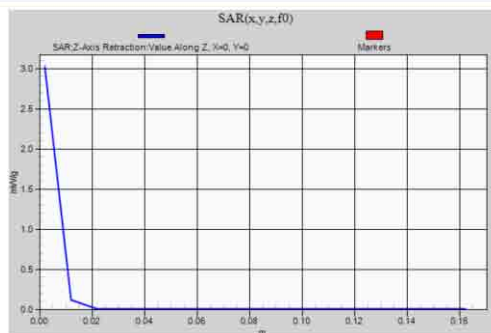
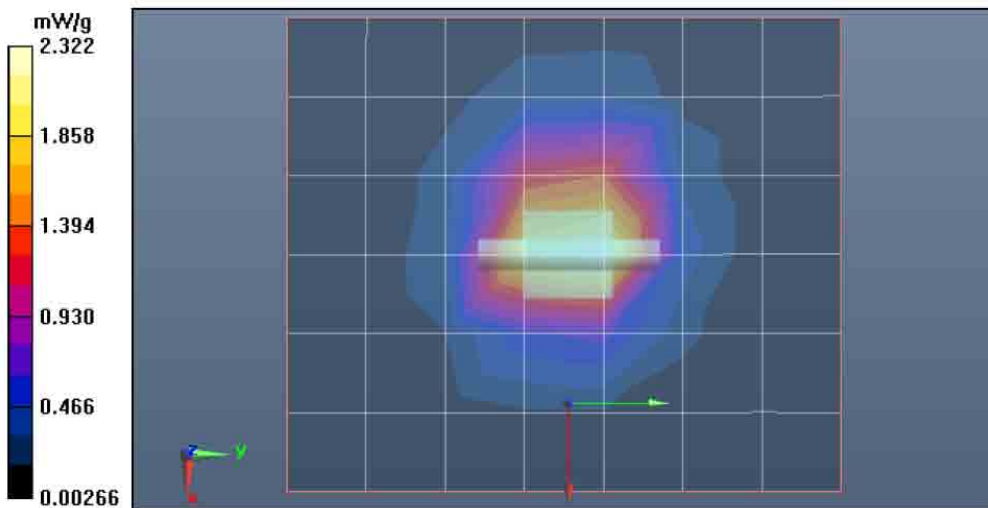
Maximum value of SAR (measured) = 2.322 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 26.144 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 5.607 W/kg  
**SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.398 mW/g**  
 Maximum value of SAR (measured) = 2.991 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 3.024 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 10:00:00 AM, Date/Time: 2/9/2012 10:05:05 AM, Date/Time: 2/9/2012 10:26:00 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5800H-120209-04  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.9 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 82.40 mW/g (1g)  
 Adjusted SAR (1W): 88.67 mW/g (1g)  
 Percent from Target (+/-): 7.6 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.33 mW/g (1g); 0.368 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 33.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid:

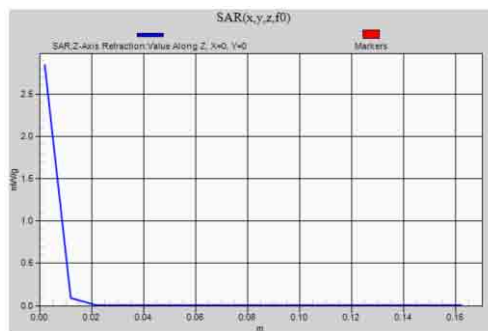
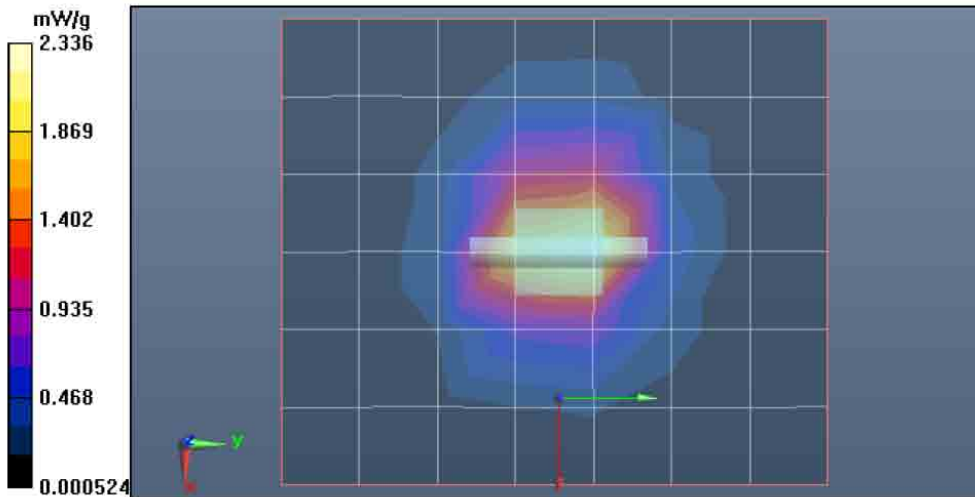
dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 2.336 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 24.749 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 5.586 W/kg  
 SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.373 mW/g  
 Maximum value of SAR (measured) = 2.810 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:  
 dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.840 mW/g





**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/10/2012 7:46:06 AM, Date/Time: 2/10/2012 7:51:08 AM, Date/Time: 2/10/2012 8:11:59 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500H-120210-02  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.0 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 88.00 mW/g (1g)  
 Adjusted SAR (1W): 91.33 mW/g (1g)  
 Percent from Target (+/-): 3.8 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.37 mW/g (1g); 0.386 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.38, 4.38, 4.38)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5500 MHz;  $\sigma = 5.14$  mho/m;  $\epsilon_r = 33.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid:  
 dx=9mm, dy=9mm

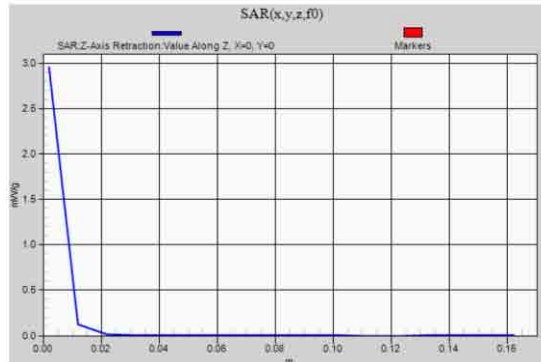
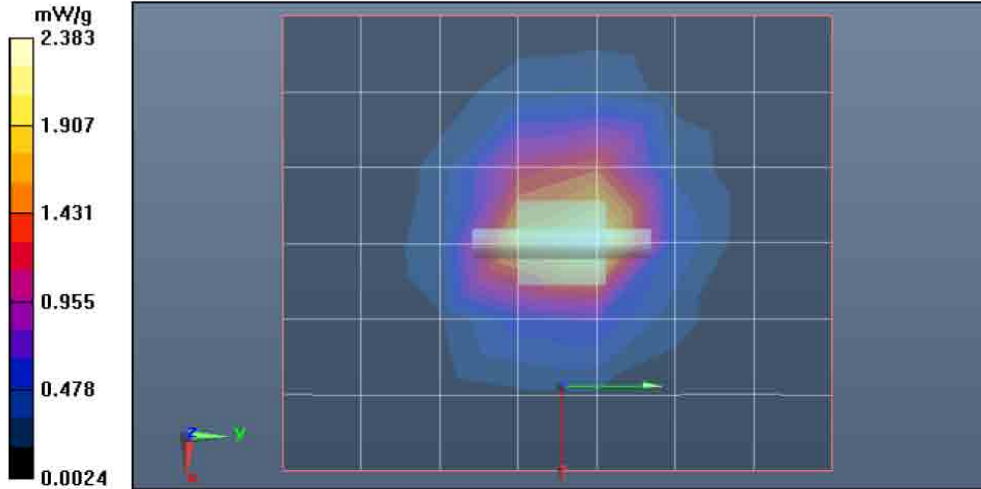
Maximum value of SAR (measured) = 2.383 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 26,297 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.486 W/kg  
 SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.390 mW/g  
 Maximum value of SAR (measured) = 2.915 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:  
 dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.959 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/10/2012 8:42:49 AM, Date/Time: 2/10/2012 8:47:54 AM, Date/Time: 2/10/2012 9:08:48 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5800H-120210-03  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.0 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 82.40 mW/g (1g)  
 Adjusted SAR (1W): 86.00 mW/g (1g)  
 Percent from Target (+/-): 4.4 % (1g)  
 Rotation (1D): 0.12 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.29 mW/g (1g); 0.364 mW/g (10g)

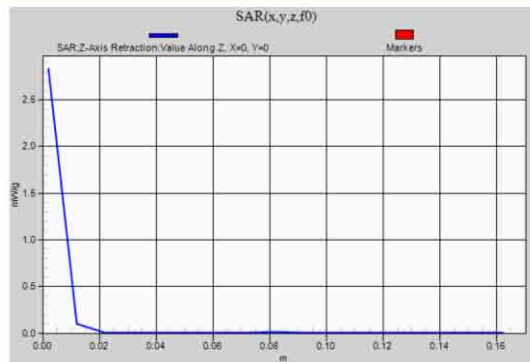
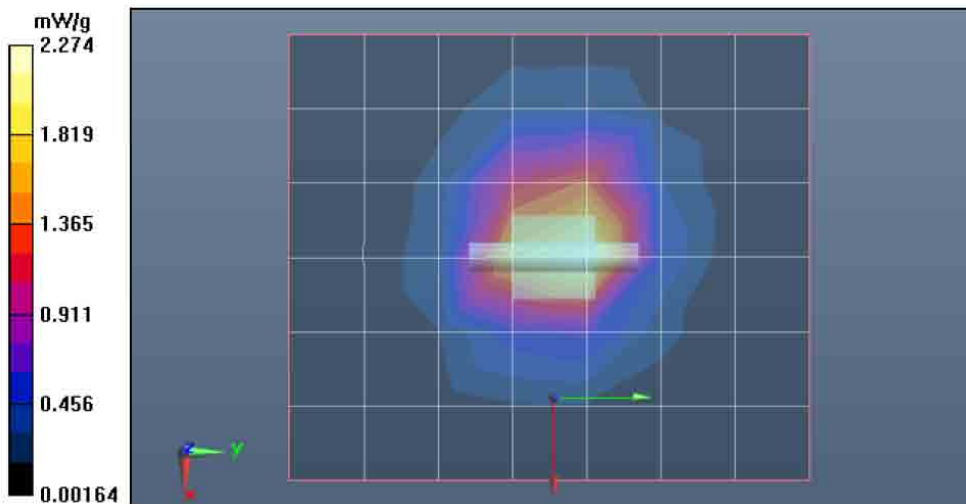
Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.5$  mho/m;  $\epsilon_r = 33.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 2.274 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**  
 Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 24.745 V/m; Power Drift = -0.062 dB  
 Peak SAR (extrapolated) = 5.335 W/kg  
 SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.369 mW/g  
 Maximum value of SAR (measured) = 2.756 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.833 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/11/2012 9:18:20 AM, Date/Time: 2/11/2012 9:23:20 AM, Date/Time: 2/11/2012 9:44:10 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200H-120211-03  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.8 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 81.33 mW/g (1g)  
 Adjusted SAR (1W): 86.67 mW/g (1g)  
 Percent from Target (+/-): 6.6 % (1g)  
 Rotation (1D): 0.096 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.30 mW/g (1g); 0.365 mW/g (10g)

Comments:

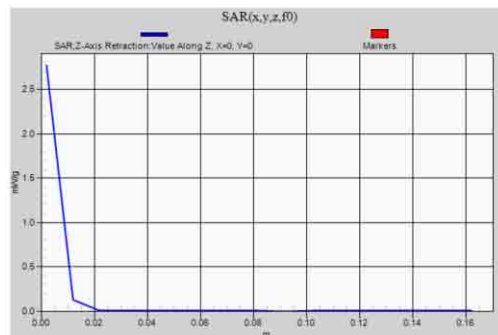
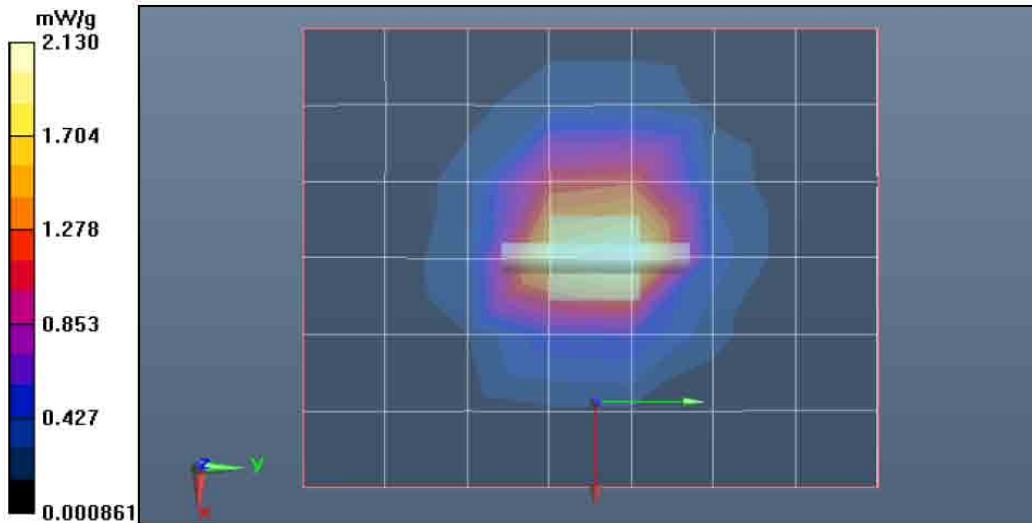
Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(5.15, 5.15, 5.15)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5200 MHz;  $\sigma = 4.77$  mho/m;  $\epsilon_r = 33.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 2.130 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**  
 Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 25.658 V/m; Power Drift = -0.052 dB  
 Peak SAR (extrapolated) = 5.471 W/kg  
**SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.370 mW/g**  
 Maximum value of SAR (measured) = 2.747 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.772 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/11/2012 8:20:26 AM, Date/Time: 2/11/2012 8:25:24 AM, Date/Time: 2/11/2012 8:46:16 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500H-120211-02  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.1 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 88.00 mW/g (1g)  
 Adjusted SAR (1W): 91.33 mW/g (1g)  
 Percent from Target (+/-): 3.8 % (1g)  
 Rotation (1D): 0.1 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.37 mW/g (1g); 0.383 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.38, 4.38, 4.38)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5500 MHz;  $\sigma = 5.12$  mho/m;  $\epsilon_r = 33.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid:

dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 2.235 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

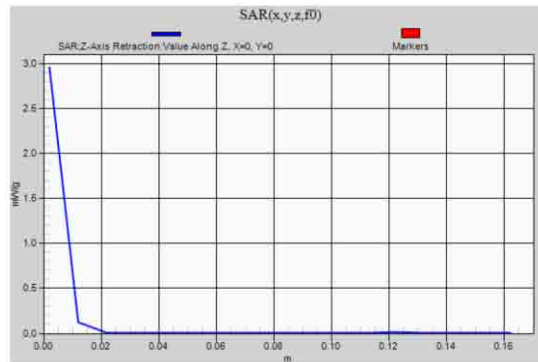
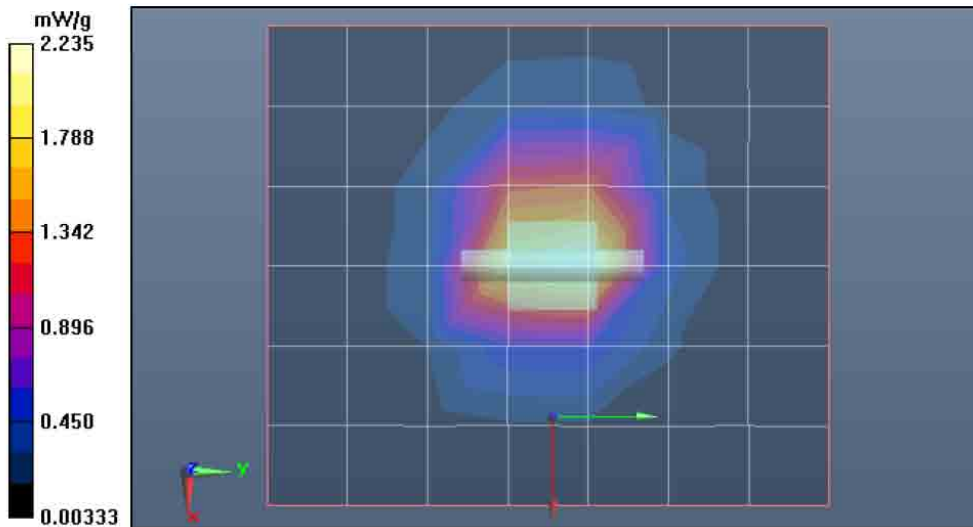
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 26.354 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 5.711 W/kg  
**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.389 mW/g**

Maximum value of SAR (measured) = 2.955 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:

dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.960 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 7:18:58 AM, Date/Time: 2/12/2012 7:24:03 AM, Date/Time: 2/12/2012 7:45:19 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200H-120212-01  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.8 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 81.33 mW/g (1g)  
 Adjusted SAR (1W): 88.00 mW/g (1g)  
 Percent from Target (+/-): 8.2 % (1g)  
 Rotation (1D): 0.095 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.32 mW/g (1g); 0.373 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(5.15, 5.15, 5.15)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.75$  mho/m;  $\epsilon_r = 33.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid:

dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.019 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 18.172 V/m; Power Drift = 0.14 dB

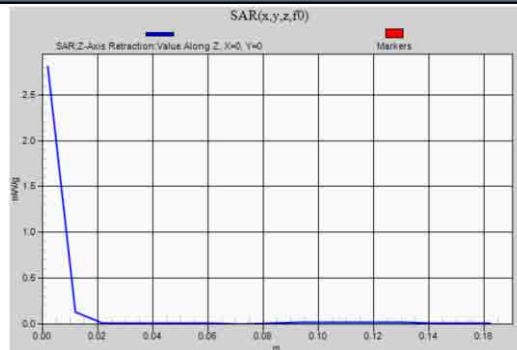
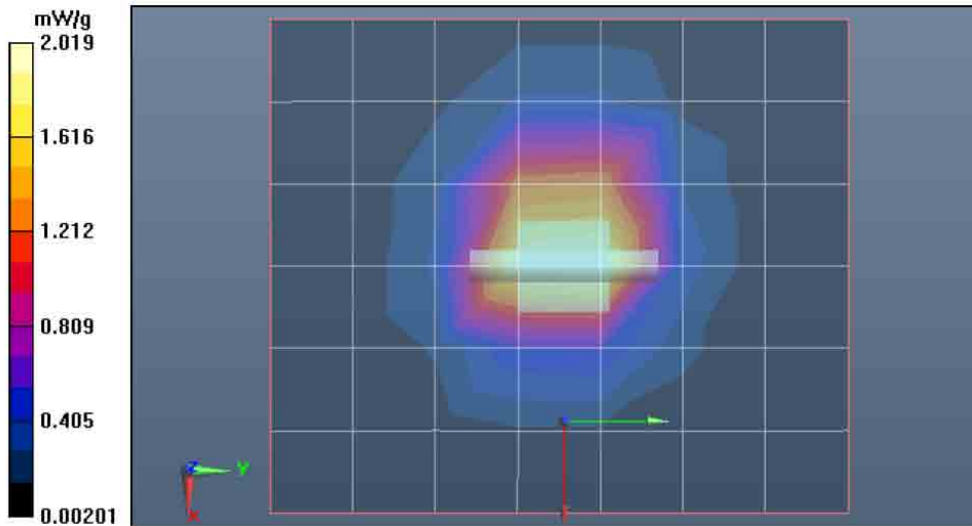
Peak SAR (extrapolated) = 5.373 W/kg

**SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.378 mW/g**

Maximum value of SAR (measured) = 2.727 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:

dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.810 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 8:16:21 AM, Date/Time: 2/12/2012 8:21:27 AM, Date/Time: 2/12/2012 8:42:27 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500H-120212-02  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.7 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 88.00 mW/g (1g)  
 Adjusted SAR (1W): 94.67 mW/g (1g)  
 Percent from Target (+/-): 7.6 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.42 mW/g (1g); 0.397 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.38, 4.38, 4.38)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5500 MHz;  $\sigma = 5.1$  mho/m;  $\epsilon_r = 33.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.262 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

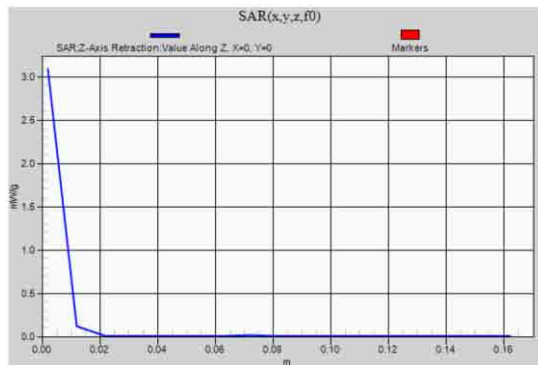
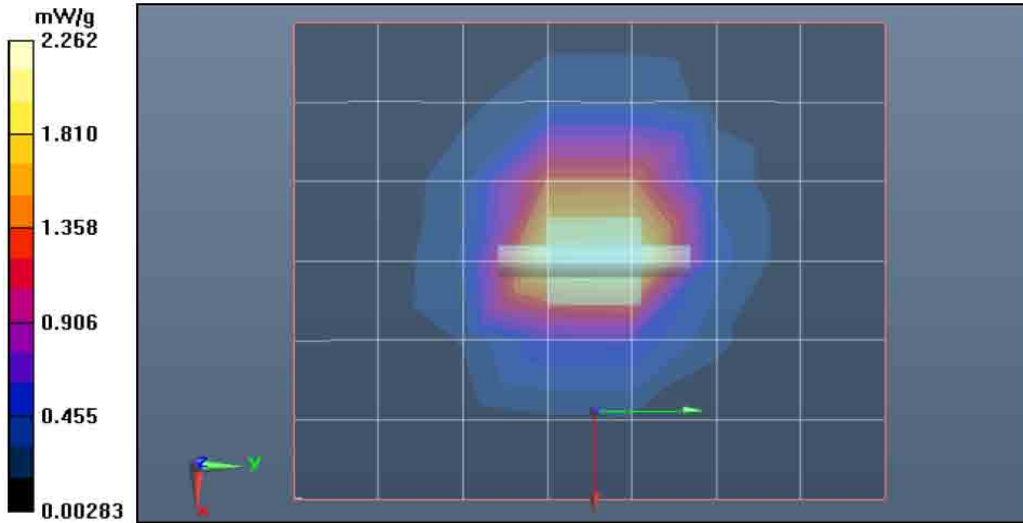
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 26.885 V/m: Power Drift = -0.026 dB

Peak SAR (extrapolated) = 5.784 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.403 mW/g

Maximum value of SAR (measured) = 3.026 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 3.087 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 9:15:08 AM, Date/Time: 2/12/2012 9:20:12 AM, Date/Time: 2/12/2012 9:41:15 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5800H-120212-03  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.5 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 82.40 mW/g (1g)  
 Adjusted SAR (1W): 88.67 mW/g (1g)  
 Percent from Target (+/-): 7.6 % (1g)  
 Rotation (1D): 0.099 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.33 mW/g (1g); 0.371 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.47$  mho/m;  $\epsilon_r = 32.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.130 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

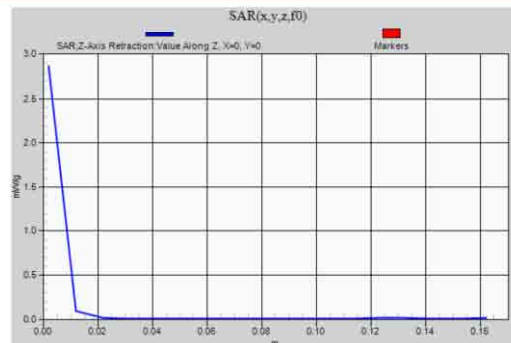
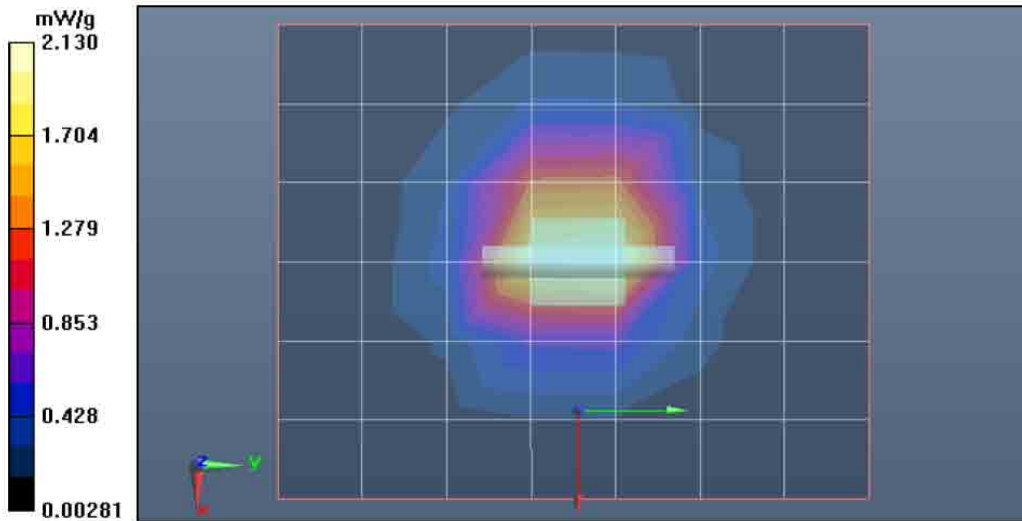
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 25.151 V/m; Power Drift = -0.0031 dB

Peak SAR (extrapolated) = 5.497 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.378 mW/g

Maximum value of SAR (measured) = 2.848 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.872 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/13/2012 8:40:18 AM, Date/Time: 2/13/2012 8:45:59 AM, Date/Time: 2/13/2012 9:07:47 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200B-120213-03  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 20.9 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 80.00 mW/g (1g)  
 Adjusted SAR (1W): 83.33 mW/g (1g)  
 Percent from Target (+/-): 4.2 % (1g)  
 Rotation (1D): 0.093 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.25 mW/g (1g); 0.362 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.1, 4.1, 4.1)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.93$  mho/m;  $\epsilon_r = 49$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid:

dx=9mm, dy=9mm  
 Maximum value of SAR (measured) = 1.947 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

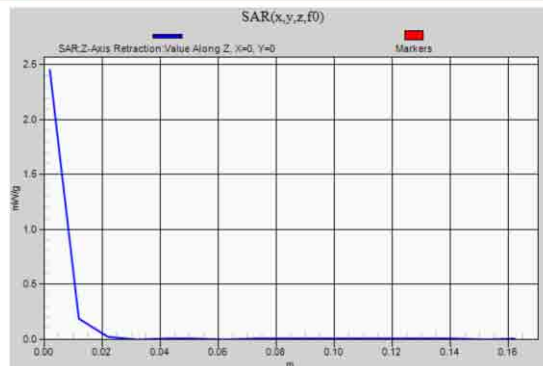
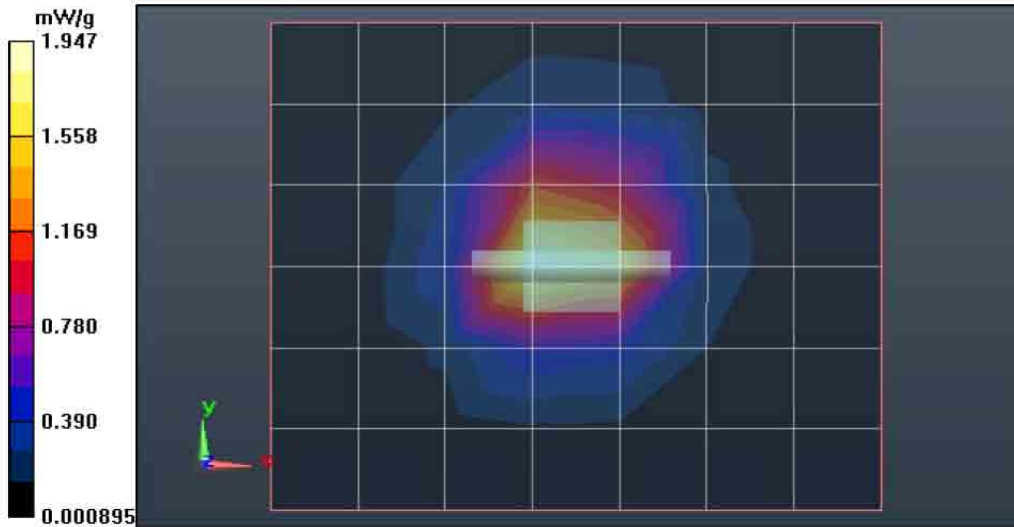
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 25.387 V/m; Power Drift = 0.021 dB  
 Peak SAR (extrapolated) = 3.913 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.363 mW/g

Maximum value of SAR (measured) = 2.390 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:

dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.451 mW/g





**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/13/2012 7:31:50 AM, Date/Time: 2/13/2012 7:37:24 AM, Date/Time: 2/13/2012 7:59:01 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500B-120213-02  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.2 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 86.00 mW/g (1g)  
 Adjusted SAR (1W): 89.33 mW/g (1g)  
 Percent from Target (+/-): 3.9 % (1g)  
 Rotation (1D): 0.099 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.34 mW/g (1g); 0.384 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.53, 3.53, 3.53)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1. Medium parameters used: f = 5500 MHz;  $\sigma = 5.41$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.166 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

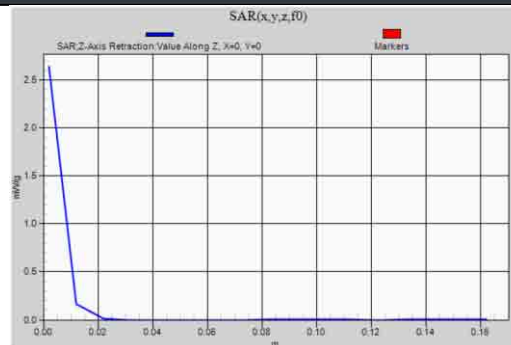
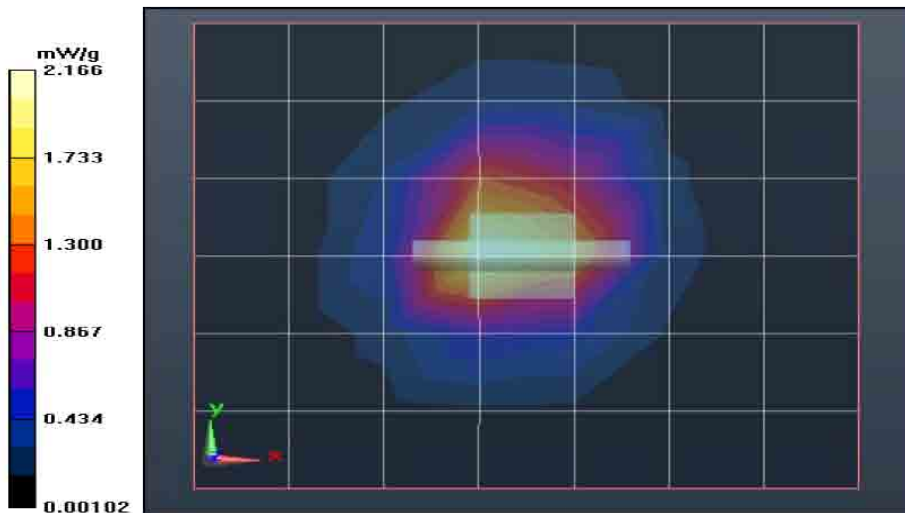
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 25.746 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 4.268 W/kg

**SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.384 mW/g**

Maximum value of SAR (measured) = 2.571 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.641 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/13/2012 6:27:46 AM, Date/Time: 2/13/2012 6:33:28 AM, Date/Time: 2/13/2012 6:55:05 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5800B-120213-01  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.1 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 76.10 mW/g (1g)  
 Adjusted SAR (1W): 77.33 mW/g (1g)  
 Percent from Target (+/-): 1.6 % (1g)  
 Rotation (1D): 0.14 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.16 mW/g (1g); 0.333 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.59, 3.59, 3.59)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used; f = 5800 MHz;  $\sigma = 5.8 \text{ mho/m}$ ;  $\epsilon_r = 47.9$ ;  $\rho = 1000 \text{ kg/m}^3$

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 1.982 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 19.366 V/m; Power Drift = 0.085 dB

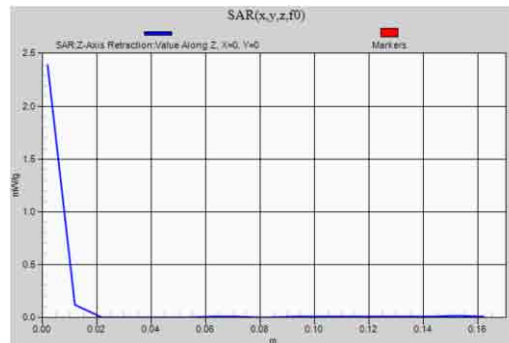
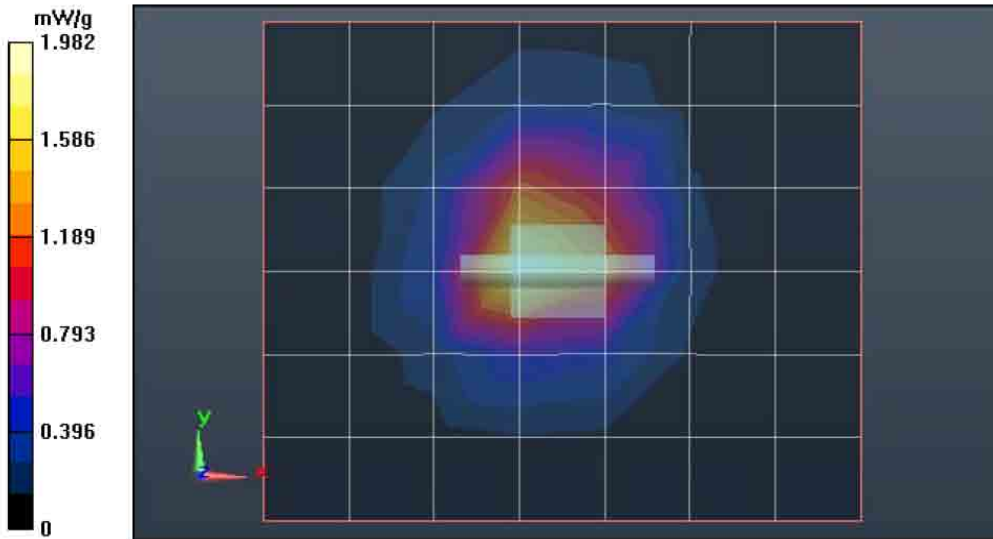
Peak SAR (extrapolated) = 3.913 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.334 mW/g**

Maximum value of SAR (measured) = 2.289 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid:

dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.396 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/14/2012 8:13:05 AM, Date/Time: 2/14/2012 8:18:39 AM, Date/Time: 2/14/2012 8:40:19 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5500B-120214-02  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.3 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5500 (MHz) / 15 (mW)

Target SAR (1W): 86.00 mW/g (1g)  
 Adjusted SAR (1W): 88.67 mW/g (1g)  
 Percent from Target (+/-): 3.1 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.33 mW/g (1g): 0.384 mW/g (10g)

Comments:

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.53, 3.53, 3.53)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.38$  mho/m;  $\epsilon_r = 46.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

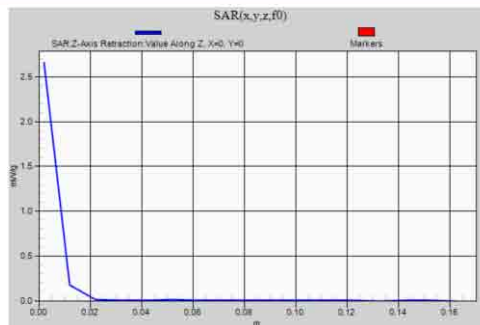
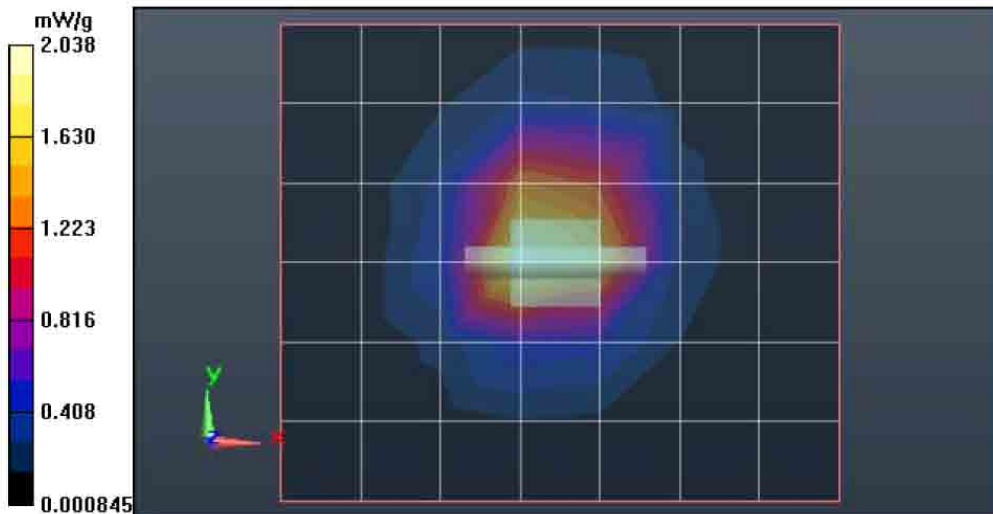
Maximum value of SAR (measured) = 2.038 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
 Reference Value = 25.222 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 4.209 W/kg  
**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.389 mW/g**  
 Maximum value of SAR (measured) = 2.615 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.659 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/15/2012 9:15:53 AM, Date/Time: 2/15/2012 9:21:28 AM, Date/Time: 2/15/2012 9:43:10 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5800B-120215-03  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.7 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 76.10 mW/g (1g)  
 Adjusted SAR (1W): 78.00 mW/g (1g)  
 Percent from Target (+/-): 2.5 % (1g)  
 Rotation (1D): 0.27 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.17 mW/g (1g); 0.337 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.59, 3.59, 3.59)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5800 MHz;  $\sigma = 5.62$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 1.799 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

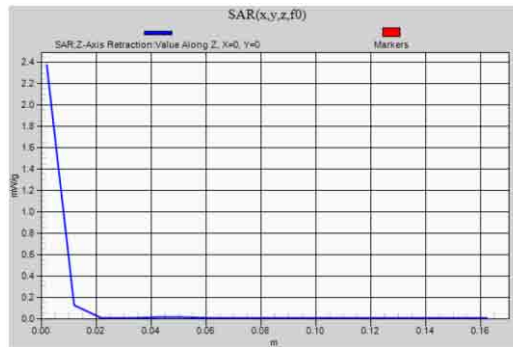
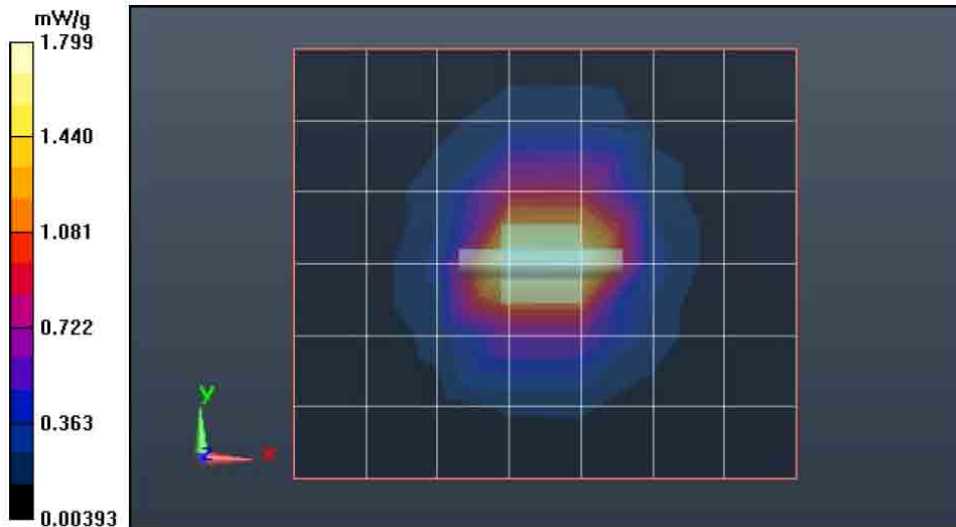
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 20.610 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.866 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.338 mW/g

Maximum value of SAR (measured) = 2.331 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.375 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/15/2012 6:57:59 AM, Date/Time: 2/15/2012 7:03:04 AM, Date/Time: 2/15/2012 7:24:04 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-5200H-120215-01  
 Phantom# / Tissue Temp.: SAMTP1209 / 21.3 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5200 (MHz) / 15 (mW)

Target SAR (1W): 81.33 mW/g (1g)  
 Adjusted SAR (1W): 86.67 mW/g (1g)  
 Percent from Target (+/-): 6.6 % (1g)  
 Rotation (1D): 0.11 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.30 mW/g (1g); 0.369 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(5.15, 5.15, 5.15)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 5200 MHz;  $\sigma = 4.79$  mho/m;  $\epsilon_r = 33.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 2.098 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

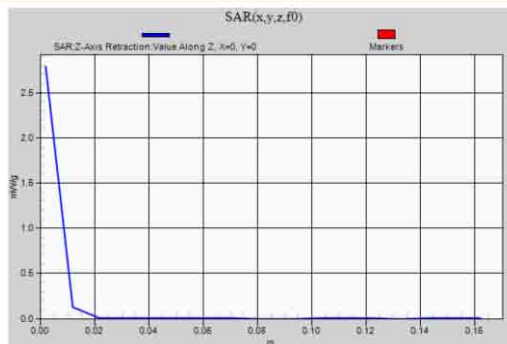
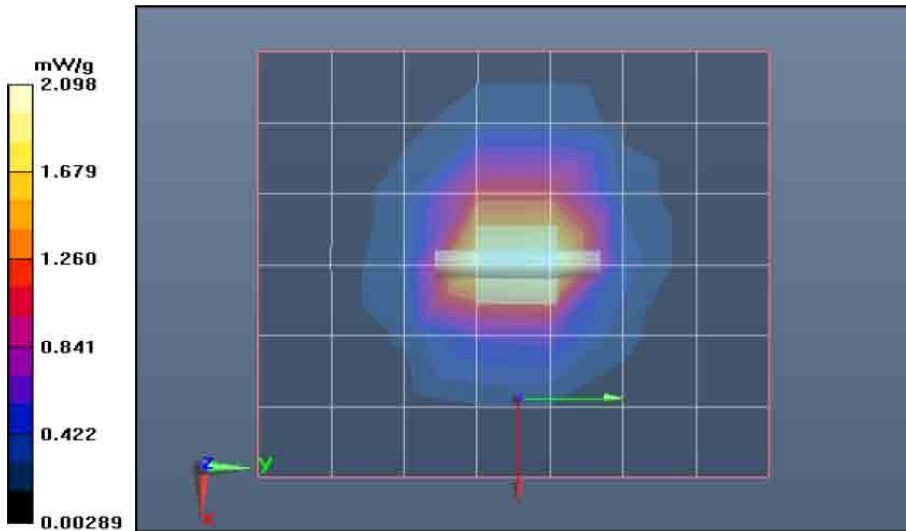
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 25.373 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 5.334 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.374 mW/g

Maximum value of SAR (measured) = 2.693 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.786 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/16/2012 7:01:08 AM, Date/Time: 2/16/2012 7:06:42 AM, Date/Time: 2/16/2012 7:28:17 AM

Robot# / Run#: DASYS-FL-2 / JsT-SYSP-5800B-120216-01  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.3 (C)  
 Dipole Model# / Serial#: D5GHzV2 / 1017  
 TX Freq. / Start power: 5800 (MHz) / 15 (mW)

Target SAR (1W): 76.10 mW/g (1g)  
 Adjusted SAR (1W): 79.33 mW/g (1g)  
 Percent from Target (+/-): 4.2 % (1g)  
 Rotation (1D): 0.13 dB

Note:  
 Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 1.19 mW/g (1g); 0.345 mW/g (10g)

Comments:  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.59, 3.59, 3.59)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 5800 MHz;  $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1g/System Performance Check/Dipole Area Scan 2 (8x7x1):** Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 1.992 mW/g

**4-6 GHz-Rev.1g/System Performance Check/0-Degree Cube (8x8x12)/Cube 0:**

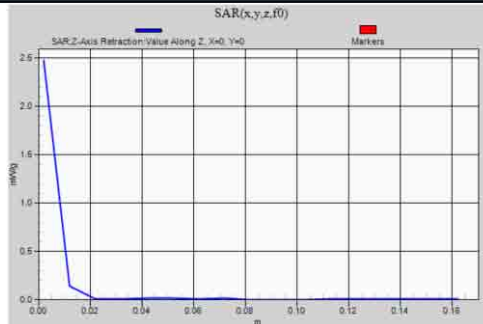
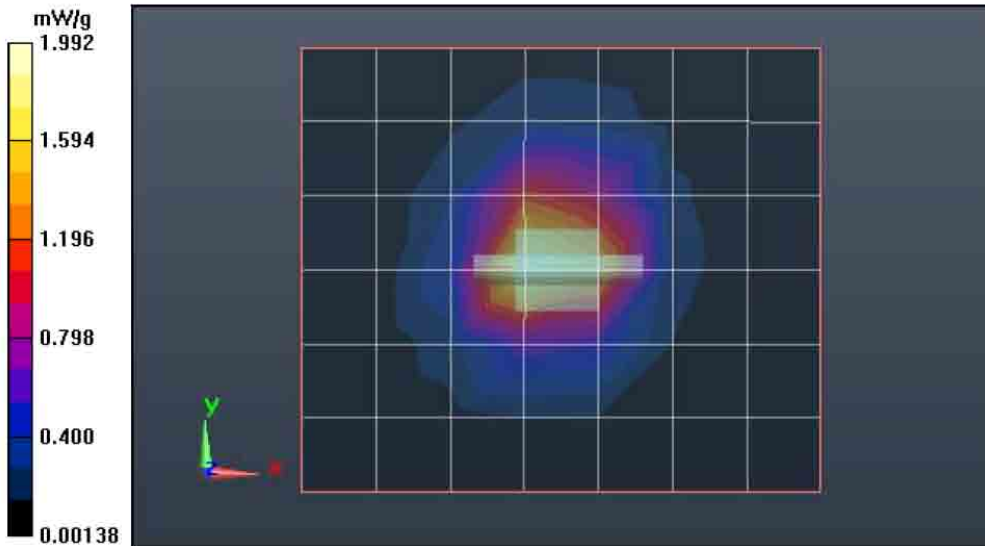
Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 24.138 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 3.996 W/kg

**SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.348 mW/g**

Maximum value of SAR (measured) = 2.420 mW/g

**4-6 GHz-Rev.1g/System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 2.474 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/16/2012 7:24:10 PM, Date/Time: 2/16/2012 7:28:33 PM, Date/Time: 2/16/2012 7:43:15

Robot# / Run#: DASY5-FL-2 / CM-SYSP-2450H-120216-11  
 Phantom# / Tissue Temp.: SAMTP1234 / 21.0 (C)  
 Dipole Model# / Serial#: D2450V2 / 704  
 TX Freq. / Start power: 2450 (MHz) / 30 (mW)

Target SAR (1W): 55.33 mW/g (1g)  
 Adjusted SAR (1W): 59.00 mW/g (1g)  
 Percent from Target (+/-): 6.6 % (1g)  
 Rotation (1D): 0.029 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: 1.77 mW/g (1g); 0.816 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.56, 4.56, 4.56)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

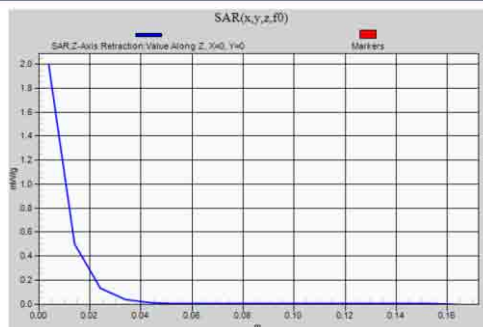
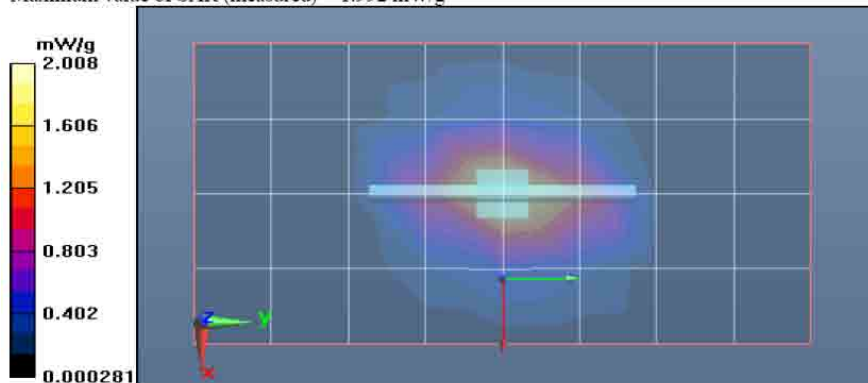
Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 33.023 V/m; Power Drift = 0.019 dB  
**Motorola Fast SAR: SAR(1 g) = 1.76 mW/g; SAR(10 g) = 0.763 mW/g**  
 Maximum value of SAR (interpolated) = 2.060 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (7x8x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 33.023 V/m; Power Drift = 0.019 dB  
 Peak SAR (extrapolated) = 3.785 W/kg  
**SAR(1 g) = 1.76 mW/g; SAR(10 g) = 0.813 mW/g**  
 Maximum value of SAR (measured) = 2.024 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) = 1.992 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/17/2012 7:15:34 AM, Date/Time: 2/17/2012 7:19:56 AM, Date/Time: 2/17/2012 7:34:30 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-2450H-120217-01  
 Phantom# / Tissue Temp.: SAMTP1234 / 21.1 (C)  
 Dipole Model# / Serial#: D2450V2 / 704  
 TX Freq. / Start power: 2450 (MHz) / 30 (mW)

Target SAR (1W): 55.33 mW/g (1g)  
 Adjusted SAR (1W): 53.67 mW/g (1g)  
 Percent from Target (+/-): 3.0 % (1g)  
 Rotation (1D): 0.031 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: 1.61 mW/g (1g); 0.743 mW/g (10g)

Comments:  
 Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.56, 4.56, 4.56)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

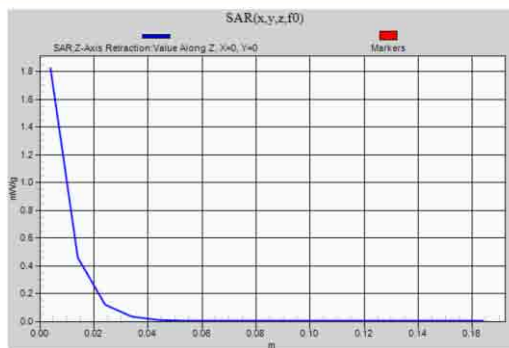
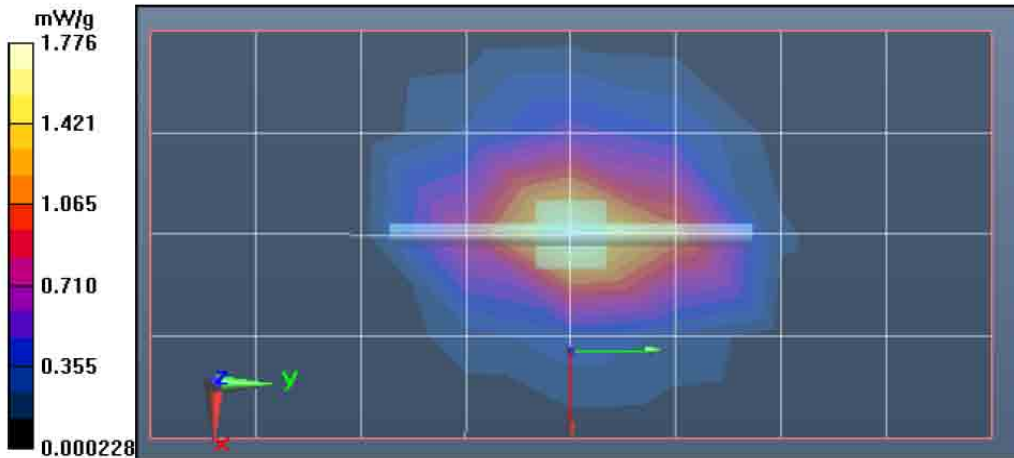
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.776 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (7x8x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 31.562 V/m; Power Drift = 0.000027 dB  
 Peak SAR (extrapolated) = 3.433 W/kg  
**SAR(1 g) = 1.61 mW/g; SAR(10 g) = 0.743 mW/g**  
 Maximum value of SAR (measured) = 1.814 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) = 1.823 mW/g





**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/18/2012 9:07:56 AM, Date/Time: 2/18/2012 9:12:20 AM, Date/Time: 2/18/2012 9:27:04 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-2450B-120218-01  
 Phantom# / Tissue Temp.: DUAL1002-Side A / 21.7 (C)  
 Dipole Model# / Serial#: D2450V2 / 704  
 TX Freq. / Start power: 2450 (MHz) / 30 (mW)

Target SAR (1W): 52.78 mW/g (1g)  
 Adjusted SAR (1W): 51.00 mW/g (1g)  
 Percent from Target (+/-): 3.4 % (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: 1.53 mW/g (1g); 0.712 mW/g (10g)

Comments:  
 Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.3, 4.3, 4.3)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 47.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

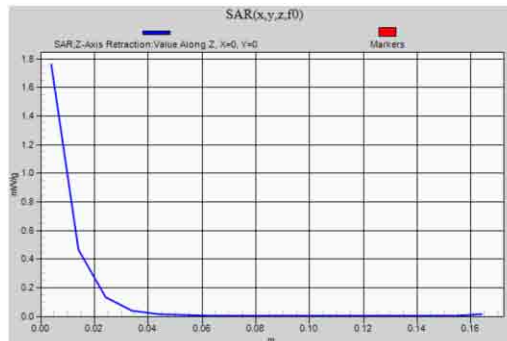
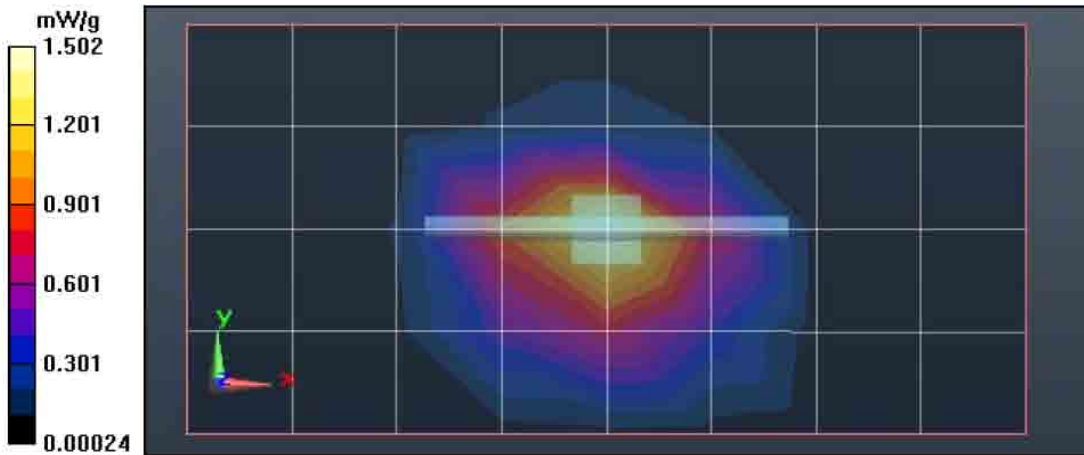
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.502 mW/g

**Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (7x8x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 30.093 V/m; Power Drift = 0.0065 dB  
 Peak SAR (extrapolated) = 3.166 W/kg  
 SAR(1 g) = 1.53 mW/g; SAR(10 g) = 0.712 mW/g  
 Maximum value of SAR (measured) = 1.727 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) = 1.761 mW/g



**DIPOLE SAR TARGET - HEAD**

Date: 12/06/11 Frequency (MHz): 2450  
 Lab Location: FL08 Mixture Type: IEEE Head  
 DAE Serial #: 1231 Ambient Temp.(°C): 22.2

Tissue Characteristics  
 Permittivity: 38.5 Phantom Type/SN: OVAL1019  
 Conductivity: 1.86 Distance (mm): 2  
 Tissue Temp.(°C): 21.6

Reference Source: Dipole Power to Dipole: 30 mW  
 Reference SN: 704

**Target 1g-SAR Value (mW/g, normalized to 1.0 W):**

**52.4**

**Difference from Target**

**5.60% (1g-SAR)**

**New Target:**

Average 1g-SAR Value (mW/g): **55.33**

**Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3163	56.00	1.2%	R1
3185	54.33	-1.8%	R1
3291	55.67	0.6%	R1
Average	<b>55.3333</b>	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: C. Miller Initial: CM

**DIPOLE SAR TARGET - BODY**

Date:	<u>12/06/11</u>	Frequency (MHz):	<u>2450</u>
Lab Location:	<u>FL08</u>	Mixture Type:	<u>Body</u>
DAE Serial #:	<u>1231</u>	Ambient Temp.(°C):	<u>22.2</u>
Tissue Characteristics			
Permittivity:	<u>50.3</u>	Phantom Type/SN:	<u>OVAL1016</u>
Conductivity:	<u>2.03</u>	Distance (mm):	<u>2</u>
Tissue Temp.(°C):	<u>21.8</u>		
Reference Source:	<u>Dipole</u>	Power to Dipole:	<u>30 mW</u>
Reference SN:	<u>704</u>		

**New Target:**

Average Measured SAR Value: 52.78 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3291	52.67	-0.2%	R1
3163	53.67	1.7%	R1
3185	52.00	-1.5%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: C. Miller Initial: *CM*

**DIPOLE SAR TARGET - HEAD**

Date:	<u>12/06/11</u>	Frequency (MHz):	<u>5200</u>
Lab Location:	<u>FL08</u>	Mixture Type:	<u>IEEE Head</u>
DAE Serial #:	<u>850</u>	Ambient Temp.(°C):	<u>21.4</u>
Tissue Characteristics			
Permittivity:	<u>33.4</u>	Phantom Type/SN:	<u>DUAL1002-Side A</u>
Conductivity:	<u>4.83</u>	Distance (mm):	<u>10</u>
Tissue Temp.(°C):	<u>21.4</u>		
Reference Source:	<u>Dipole</u>	Power to Dipole:	<u>15</u> mW
Reference SN:	<u>1017</u>		

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

**76.5**

Difference from Target

**6.31% (1g-SAR)****New Target:**Average 1g-SAR Value  
(mW/g):**81.33****Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	81.33	0.0%	R2
Average	<b>81.3300</b>	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by:

**J. Turco**

Initial:



**DIPOLE SAR TARGET - BODY**

Date: 12/06/11 Frequency (MHz): 5200  
 Lab Location: FL08 Mixture Type: Body  
 DAE Serial #: 850 Ambient Temp.(°C): 21.1

Tissue Characteristics  
 Permittivity: 46.0 Phantom Type/SN: DUAL1002-Side B  
 Conductivity: 4.85 Distance (mm): 10  
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW  
 Reference SN: 1017

**New Target:**

Average Measured SAR Value: 80.00 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	80.00	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - HEAD**

Date: 12/06/11 Frequency (MHz): 5500  
 Lab Location: FL08 Mixture Type: IEEE Head  
 DAE Serial #: 850 Ambient Temp.(°C): 21.3

Tissue Characteristics  
 Permittivity: 32.7 Phantom Type/SN: DUAL1002-Side A  
 Conductivity: 5.18 Distance (mm): 10  
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW  
 Reference SN: 1017

**Target 1g-SAR Value (mW/g, normalized to 1.0 W):**

**83.3**

**Difference from Target**

**5.64% (1g-SAR)**

**New Target:**

Average 1g-SAR Value (mW/g):	<b>88.00</b>
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**Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	88.00	0.0%	R2
<b>Average</b>	<b>88.0000</b>	<b>New Measured SAR Value</b>	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - BODY**

Date: 12/06/11 Frequency (MHz): 5500  
 Lab Location: FL08 Mixture Type: Body  
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics  
 Permittivity: 45.4 Phantom Type/SN: DUAL1002-Side B  
 Conductivity: 5.26 Distance (mm): 10  
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW  
 Reference SN: 1017

**New Target:**

Average Measured SAR Value: 86.00 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	86.00	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - HEAD**

Date: 12/06/11 Frequency (MHz): 5800  
 Lab Location: FL08 Mixture Type: IEEE Head  
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics  
 Permittivity: 32.0 Phantom Type/SN: DUAL1002-Side A  
 Conductivity: 5.52 Distance (mm): 10  
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 10 mW  
 Reference SN: 1017

**Target 1g-SAR Value (mW/g, normalized to 1.0 W):**

**78**

**Difference from Target**

5.64% (1g-SAR)

**New Target:**

Average 1g-SAR Value (mW/g):	<b>82.40</b>
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**Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	82.40	0.0%	R2
<b>Average 82.4000</b>		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco

Initial: 



**DIPOLE SAR TARGET - BODY**

Date: 12/06/11 Frequency (MHz): 5800  
 Lab Location: FL08 Mixture Type: Body  
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics  
 Permittivity: 44.7 Phantom Type/SN: DUAL1002-Side B  
 Conductivity: 5.68 Distance (mm): 10  
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 10 mW  
 Reference SN: 1017

**New Target:**

Average Measured SAR Value: 76.10 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	76.10	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

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

## Shortened Scan Result

### TABLE 22

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/15/2012 12:28:42 PM, Date/Time: 2/15/2012 12:55:11 PM, Date/Time: 2/15/2012 1:16:23 PM

Robot# / Run# : DASY5-FL-2 / JsT-Rear-120215-06  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.7 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5805 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.334 mW/g (1g); 0.109 mW/g (10g)

Comments: Shortened Scan; Tilt

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5805$  MHz;  $\sigma = 5.5$  mho/m;  $\epsilon_r = 32.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

#### 4-6 GHz-Rev.1f/Shortened Scan Right Ear-Tilt Position/1-Area Scan (81x161x1):

Measurement grid: dx=9mm, dy=9mm

Reference Value = 10.759 V/m; Power Drift = -0.26 dB

Motorola Fast SAR: SAR(1 g) = 0.768 mW/g; SAR(10 g) = 1.09 mW/g

Maximum value of SAR (interpolated) = 0.637 mW/g

#### 4-6 GHz-Rev.1f/Shortened Scan Right Ear-Tilt Position/2-Zoom Scan (8x8x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 12.690 V/m; Power Drift = -0.42 dB

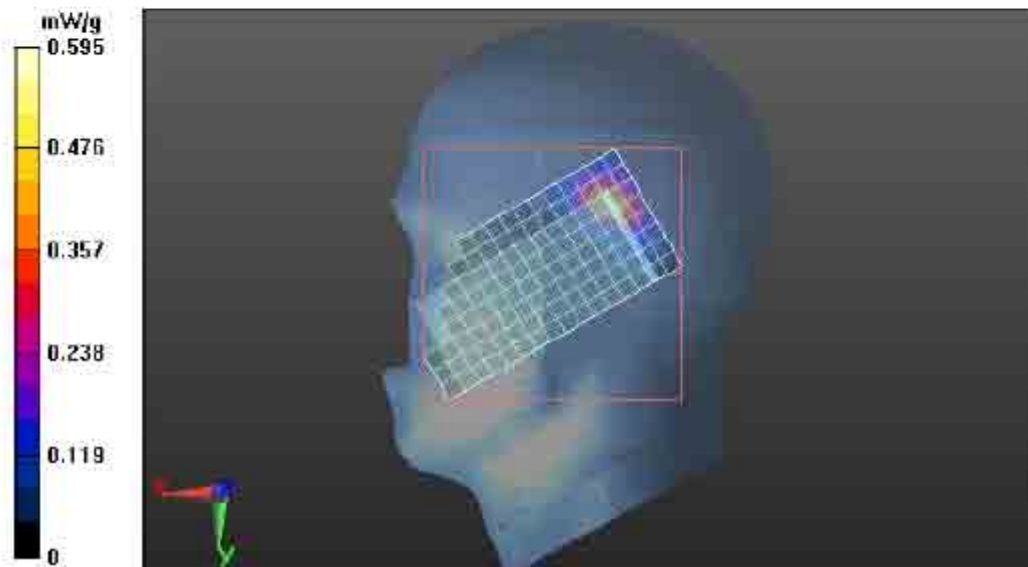
Peak SAR (extrapolated) = 1.681 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.665 mW/g

#### 4-6 GHz-Rev.1f/Shortened Scan Right Ear-Tilt Position/3-Z-Axis Scan (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.073 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 21 minutes.

Representative full scan run time was 35 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 0.77mW/g; 10-g Avg. = 0.25mW/g.

Zoom scan max calculated SAR using SAR drift (see part 1 Table 21): 1-g Avg. = 0.82 mW/g; 10-g Avg. = 0.29 mW/g.

## Body - Highest SAR Configuration Result

### TABLE 16

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/14/2012 2:59:13 PM, Date/Time: 2/14/2012 3:04:25 PM, Date/Time: 2/14/2012 3:24:16 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-120214-09  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.0 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5600 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: EWPACCUC001 / SJYN0264C  
 Start Power: 0.0794 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.062 mW/g (1g); 0.026 mW/g (10g)

Comments: Full Scan w/ Reduced Area Scan; Back of DUT Facing Phantom, Display Side Towards Tech. and Audio Port Facing Up.

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.35, 3.35, 3.35)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.51$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Ab Scan/1-Area Scan (51x71x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.244 V/m; Power Drift = -0.42 dB

Motorola Fast SAR: SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.294 mW/g

Maximum value of SAR (interpolated) = 0.109 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/2-Zoom Scan (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.244 V/m; Power Drift = -0.94 dB

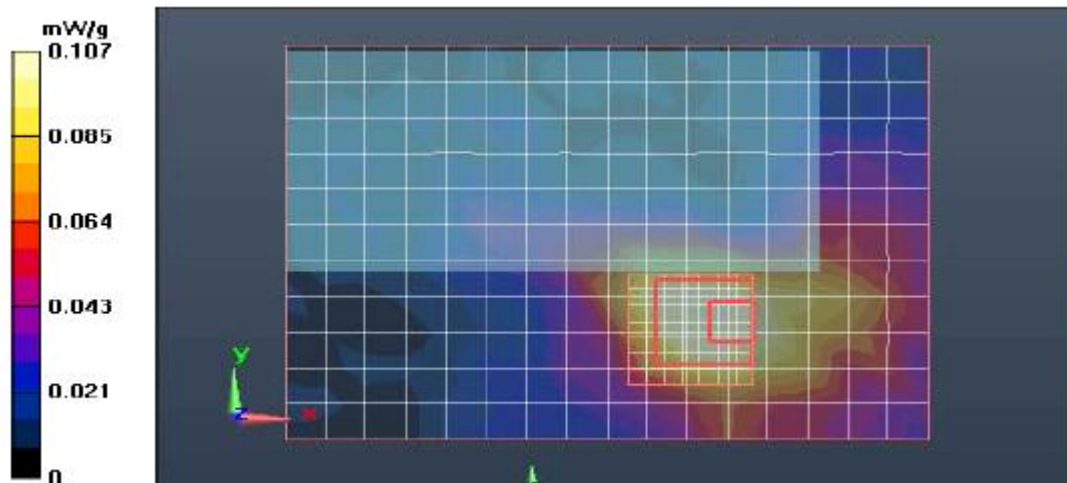
Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.026 mW/g

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (measured) = 0.115 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.100 mW/g



## Face - Highest SAR Configuration Result

### TABLE 19

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 12:00:03 PM, Date/Time: 2/12/2012 12:15:42 PM, Date/Time: 2/12/2012 1:15:29 PM

Robot# / Run#: DASY5-FL-2 / JsT-Face-120212-06  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.1 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5745 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 0.0776 (W)

#### Note

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0429 mW/g (1g); 0.0175 mW/g (10g)

Comments: Full Scan; Front of DUT @ 2.5 cm and Display Side Towards Right.  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1.4.00037, Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.4$  mho/m;  $\epsilon_r = 32.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Face Scan/1-Area Scan (91x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 3.629 V/m; Power Drift = -0.44 dB

Motorola Fast SAR: SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (interpolated) = 0.079 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/2-Zoom Scan (10x19x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

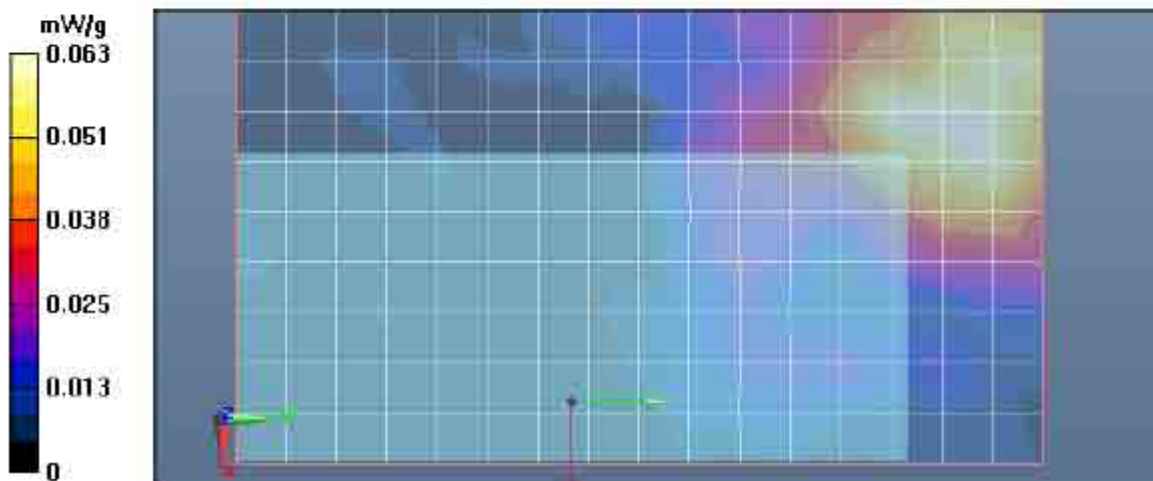
Reference Value = 3.629 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.0429 mW/g; SAR(10 g) = 0.0175 mW/g

Maximum value of SAR (measured) = 0.064 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.052 mW/g



## Head - Highest SAR Configuration Result

### TABLE 19

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/9/2012 1:55:06 PM, Date/Time: 2/9/2012 2:08:48 PM, Date/Time: 2/9/2012 2:29:48 PM

Robot# / Run#: DASY5-FL-2 / JsT-Rear-120209-08  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.7 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5805 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.314 mW/g (1g); 0.112 mW/g (10g)

Comments: Full Scan; Tilt

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5805$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 33.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/1-Area Scan (81x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.709 V/m; Power Drift = -0.62 dB

Motorola Fast SAR: SAR(1 g) = 0.754 mW/g; SAR(10 g) = 1.08 mW/g

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

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/2-Zoom Scan (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

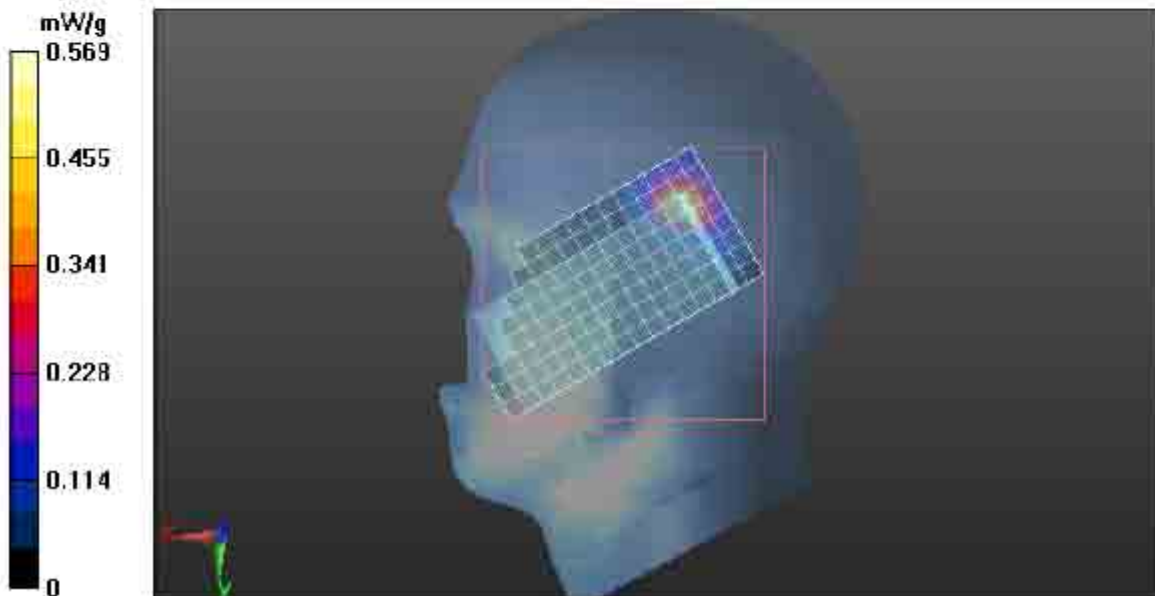
Reference Value = 4.709 V/m; Power Drift = -0.95 dB

Peak SAR (extrapolated) = 1.107 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.588 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.589 mW/g



## Appendix F DUT Scans

**Section 1.0 – 802.11a (5.18 – 5.32GHz)  
Assessments at the Body  
(Section 13.1.1 TABLE 14)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 7:53:21 PM, Date/Time: 2/12/2012 8:12:26 PM, Date/Time: 2/12/2012 8:35:01 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-120212-12  
Phantom# / Tissue Temp.: DUAL1002-Side B / 22.5 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5260 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: EWPACCUC001 / None  
Start Power: 0.0759 (W)

Note:

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0618 mW/g (1g); 0.0253 mW/g (10g)

Comments: Full Scan: Display Side Toward Tech. Back of DUT toward phantom with audio port up

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.8, 3.8, 3.8)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.99$  mho/m;  $\epsilon_r = 48.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Ab Scan/1-Area Scan (101x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.465 V/m; Power Drift = -0.18 dB

Motorola Fast SAR: SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (interpolated) = 0.111 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/2-Zoom Scan (8x9x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.465 V/m; Power Drift = -0.50 dB

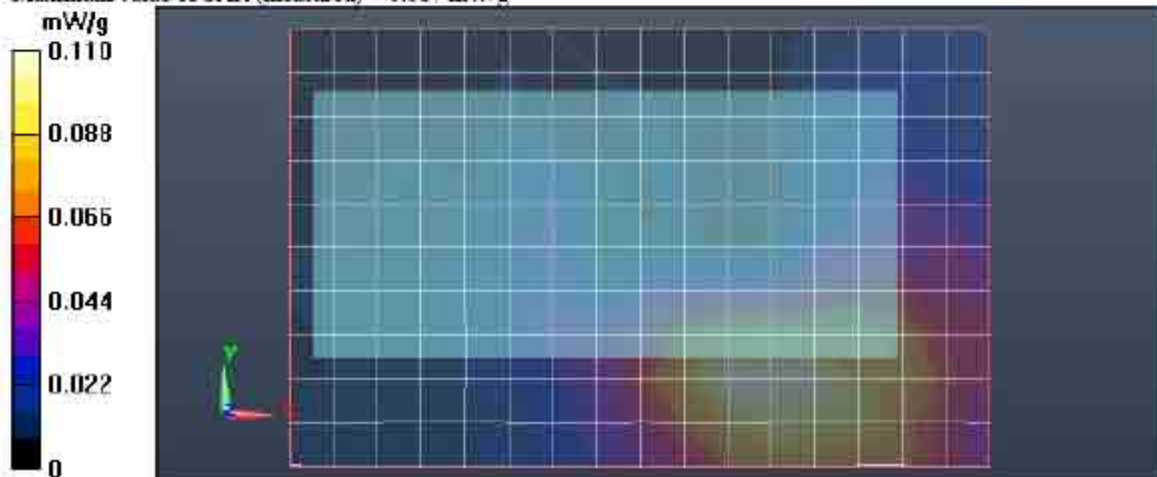
Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.0612 mW/g; SAR(10 g) = 0.0254 mW/g

Maximum value of SAR (measured) = 0.104 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.087 mW/g





**Section 2.0 – 802.11a (5.18 – 5.32GHz)  
Assessments at the Head – Tilt position  
(Section 13.1.2 TABLE 15)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/7/2012 10:07:40 PM, Date/Time: 2/7/2012 10:23:23 PM, Date/Time: 2/7/2012 10:44:34 PM

Robot# / Run#: DASY5-FL-2 / CM-Rear-120207-17  
Phantom# / Tissue Temp.: SAMTP1209 / 22.1 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5260 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.282 mW/g (1g), 0.104 mW/g (10g)

Comments: Full Scan; Tilt

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.8, 4.8, 4.8)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.92$  mho/m;  $\epsilon_r = 33.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/1-Area Scan (91x161x1): Measurement**

grid: dx=9mm, dy=9mm

Reference Value = 4.979 V/m; Power Drift = -0.66 dB

Motorola Fast SAR: SAR(1 g) = 0.758 mW/g; SAR(10 g) = 1.52 mW/g

Maximum value of SAR (interpolated) = 0.547 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/2-Zoom Scan (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.979 V/m; Power Drift = -0.94 dB

Peak SAR (extrapolated) = 0.958 W/kg

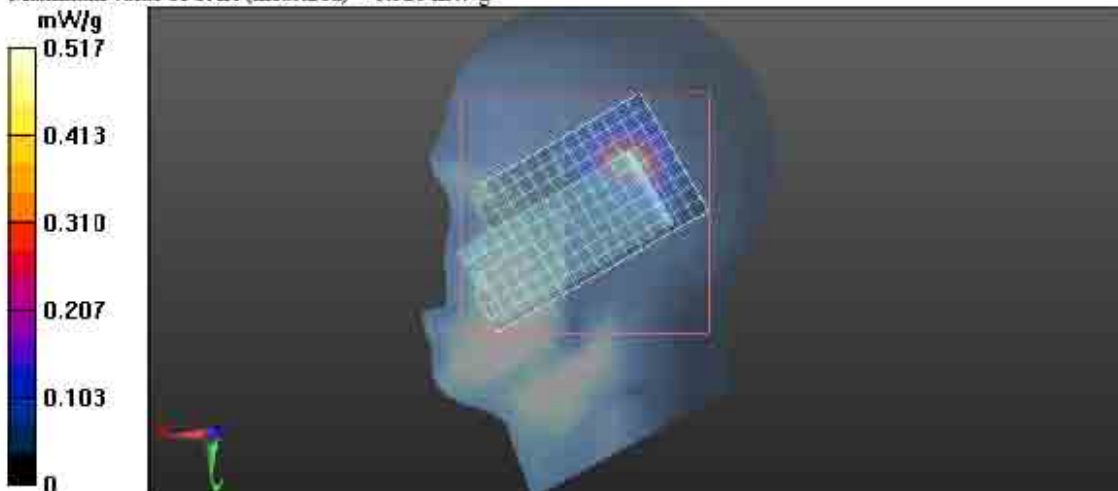
SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.511 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/3-Z-Axis Scan (1x1x17): Measurement**

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

Maximum value of SAR (measured) = 0.520 mW/g



**Section 2.0 – 802.11a (5.18 – 5.32GHz)**  
**Assessments at the Head – Touch position**  
**(Section 13.1.2 TABLE 15)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 11:42:06 PM, Date/Time: 2/9/2012 11:57:14 PM, Date/Time: 2/10/2012 12:27:36 AM

Robot# / Run#: DASY5-FL-2 / CM-Lear-120209-18  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.3 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5320 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.247 mW/g (1g); 0.102 mW/g (10g)

Comments: Touch, shortened scan

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.8, 4.8, 4.8)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5320$  MHz;  $\sigma = 5.09$  mho/m;  $\epsilon_r = 34.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Shortened Scan Left Ear-Touch Position/1-Area Scan (61x61x1):**

Measurement grid: dx=9mm, dy=9mm

Reference Value = 2.916 V/m; Power Drift = 0.75 dB

Motorola Fast SAR: SAR(1 g) = 0.607 mW/g; SAR(10 g) = 1.18 mW/g

Maximum value of SAR (interpolated) = 0.445 mW/g

**4-6 GHz-Rev.1f/Shortened Scan Left Ear-Touch Position/2-Zoom Scan (8x8x12)/Cube**

**0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.479 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 0.803 W/kg

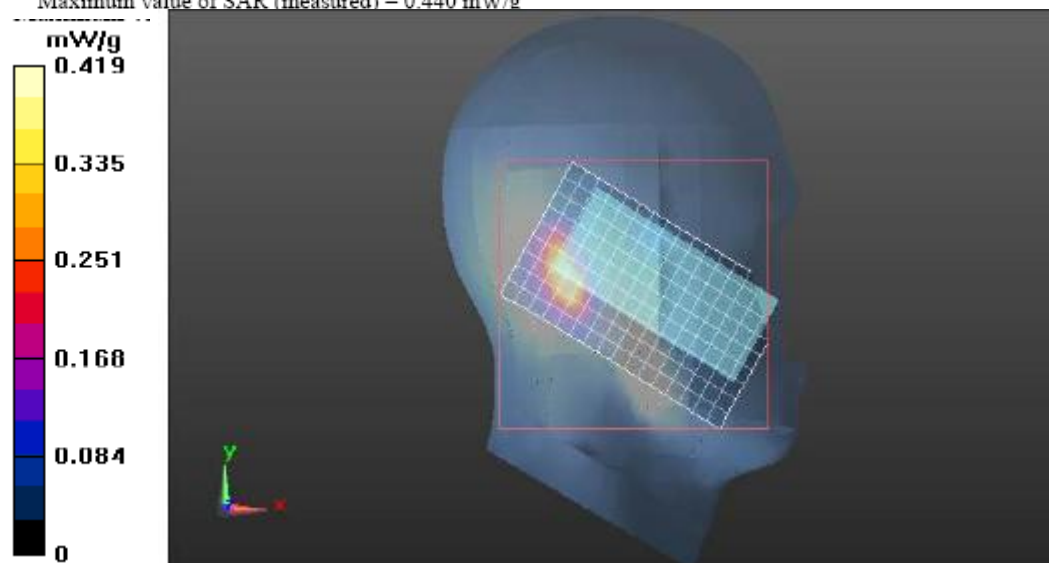
SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.447 mW/g

**4-6 GHz-Rev.1f/Shortened Scan Left Ear-Touch Position/3-Z-Axis Scan (1x1x17):**

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

Maximum value of SAR (measured) = 0.440 mW/g



## Section 3.0 – 802.11a (5.18 – 5.32GHz) Assessments at the Face (Section 13.1.3 TABLE 15)

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/11/2012 7:52:15 PM, Date/Time: 2/11/2012 8:06:44 PM, Date/Time: 2/11/2012 8:26:05 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-120211-15  
Phantom# / Tissue Temp.: SAMTP1209 / 20.1 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5260 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0281 mW/g (1g); 0.0119 mW/g (10g)

Comments: Full Scan; Front of DUT @ 2.5 cm and Display Side Towards Right.

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.8, 4.8, 4.8)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1.4.00037, Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.85$  mho/m;  $\epsilon_r = 33.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Face Scan/1-Area Scan (91x151x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 3.680 V/m; Power Drift = -0.92 dB

Motorola Fast SAR: SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.217 mW/g

**Warning:** Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (interpolated) = 0.058 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/2-Zoom Scan (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.680 V/m; Power Drift = -0.94 dB

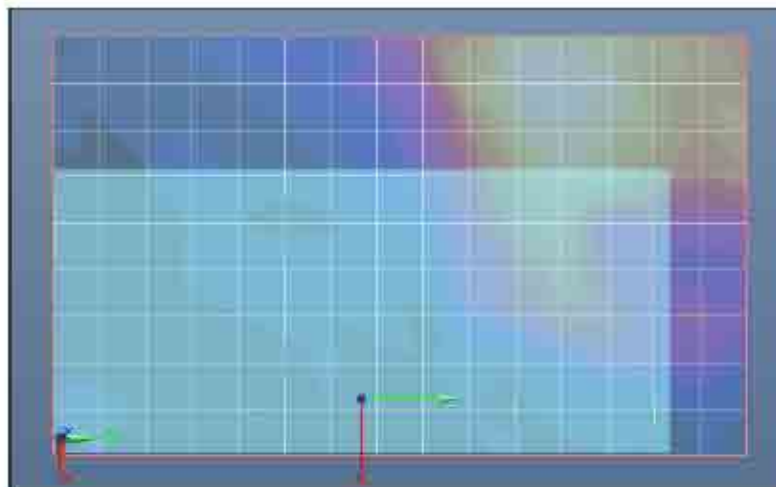
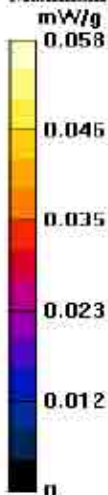
Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.0281 mW/g; SAR(10 g) = 0.0119 mW/g

Maximum value of SAR (measured) = 0.061 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.039 mW/g



**Section 4.0 – 802.11a (5.5 – 5.7GHz)**  
**Assessments at the Body**  
**(Section 13.2.1 TABLE 16)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/14/2012 2:59:13 PM, Date/Time: 2/14/2012 3:04:25 PM, Date/Time: 2/14/2012 3:24:16 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-120214-09  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.0 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5600 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: EWPACCUC001 / SJYN0264C  
 Start Power: 0.0794 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.062 mW/g (1g); 0.026 mW/g (10g)

Comments: Full Scan w/ Reduced Area Scan; Back of DUT Facing Phantom, Display Side Towards Tech. and Audio Port Facing Up.

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.35, 3.35, 3.35)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.51$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Ab Scan/1-Area Scan (51x71x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.244 V/m; Power Drift = -0.42 dB

Motorola Fast SAR: SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.294 mW/g

Maximum value of SAR (interpolated) = 0.109 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/2-Zoom Scan (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.244 V/m; Power Drift = -0.94 dB

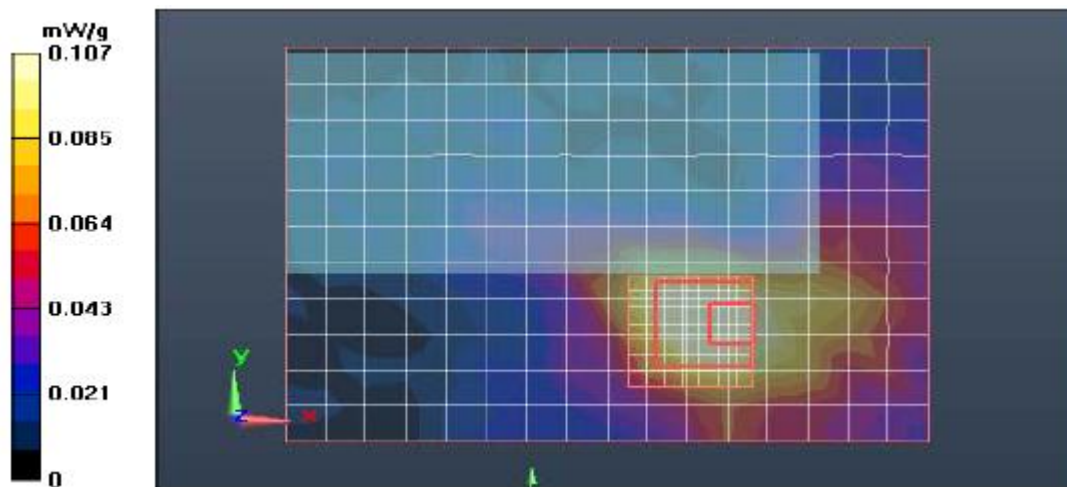
Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.026 mW/g

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (measured) = 0.115 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.100 mW/g



**Section 5.0 – 802.11a (5.5 – 5.7GHz)  
Assessments at the Head – Tilt position  
(Section 13.2.2 TABLE 17)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/8/2012 11:38:48 PM, Date/Time: 2/9/2012 12:14:06 AM, Date/Time: 2/9/2012 3:29:51 PM

Robot# / Run#: DASY5-FL-2 / JsT-Rear-120209-10  
Phantom# / Tissue Temp.: SAMTP1209 / 20.4 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5660 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0794 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.370 mW/g (1g); 0.129 mW/g (10g)

Comments: Shortened Scan; Tilt

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.08, 4.08, 4.08)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5660$  MHz,  $\sigma = 5.51$  mho/m;  $\epsilon_r = 33.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/1-Area Scan (81x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.535 V/m; Power Drift = -1.40 dB

Motorola Fast SAR: SAR(1 g) = 0.740 mW/g; SAR(10 g) = 1.14 mW/g

Maximum value of SAR (interpolated) = 0.614 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/2-Zoom Scan 2 (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 12.045 V/m; Power Drift = -0.24 dB

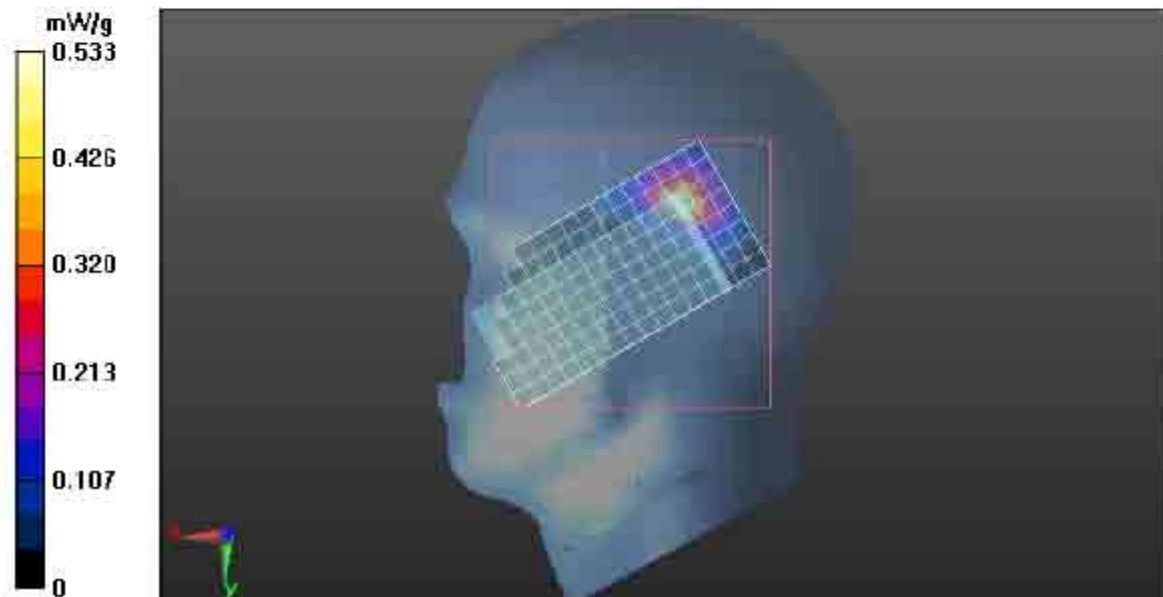
Peak SAR (extrapolated) = 1.313 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.725 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/3-Z-Axis Scan (1x1x17):** Measurement

grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.556 mW/g



**Section 5.0 – 802.11a (5.5 – 5.7GHz)  
Assessments at the Head – Touch position  
(Section 13.2.2 TABLE 17)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/8/2012 6:29:36 PM, Date/Time: 2/8/2012 6:45:11 PM, Date/Time: 2/8/2012 7:06:15 PM

Robot# / Run#: DASY5-FL-2 / CM-Rear-120208-11  
Phantom# / Tissue Temp.: SAMTP1209 / 20.2 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5600 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0794 (W)

Note:  
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.299 mW/g (1g); 0.106 mW/g (10g)

Comments: Full Scan; Touch

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.08, 4.08, 4.08)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used: f = 5600 MHz;  $\sigma = 5.35$  mho/m;  $\epsilon_r = 33$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/1-Area Scan (91x161x1):**

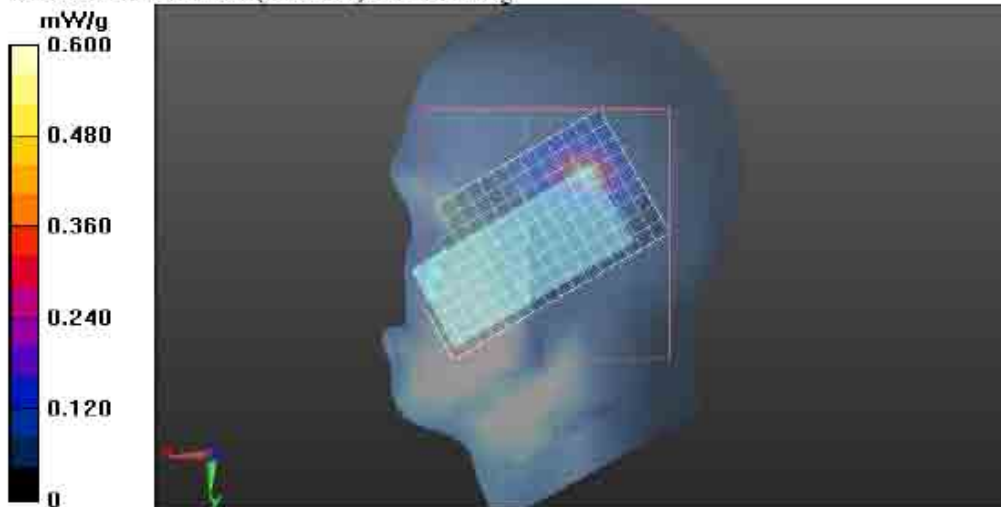
Measurement grid: dx=9mm, dy=9mm  
Reference Value = 5.276 V/m; Power Drift = -0.18 dB  
Motorola Fast SAR: SAR(1 g) = 0.743 mW/g; SAR(10 g) = 1.15 mW/g  
Maximum value of SAR (interpolated) = 0.605 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/2-Zoom Scan (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 5.276 V/m; Power Drift = -0.63 dB  
Peak SAR (extrapolated) = 1.051 W/kg  
SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.106 mW/g  
Maximum value of SAR (measured) = 0.573 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/3-Z-Axis Scan (1x1x17): Measurement**

grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 0.582 mW/g



**Section 6.0 – 802.11a (5.5 – 5.7GHz)  
Assessments at the Face  
(Section 13.2.3 TABLE 17)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 11:08:16 AM, Date/Time: 2/12/2012 11:23:06 AM, Date/Time: 2/12/2012 11:47:56 AM

Robot# / Run#: DASY5-FL-2 / JsT-Face-120212-05  
Phantom# / Tissue Temp.: SAMTP1209 / 20.1 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5660 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0794 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0359 mW/g (1g); 0.0154 mW/g (10g)  
Comments: Full Scan; Front of DUT @ 2.5 cm and Display Side Towards Right.  
Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.08, 4.08, 4.08)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5660$  MHz;  $\sigma = 5.29$  mho/m;  $\epsilon_r = 33.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Face Scan/1-Area Scan (91x151x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 3.458 V/m; Power Drift = -0.44 dB

Motorola Fast SAR: SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.174 mW/g

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (interpolated) = 0.068 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/2-Zoom Scan (9x9x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

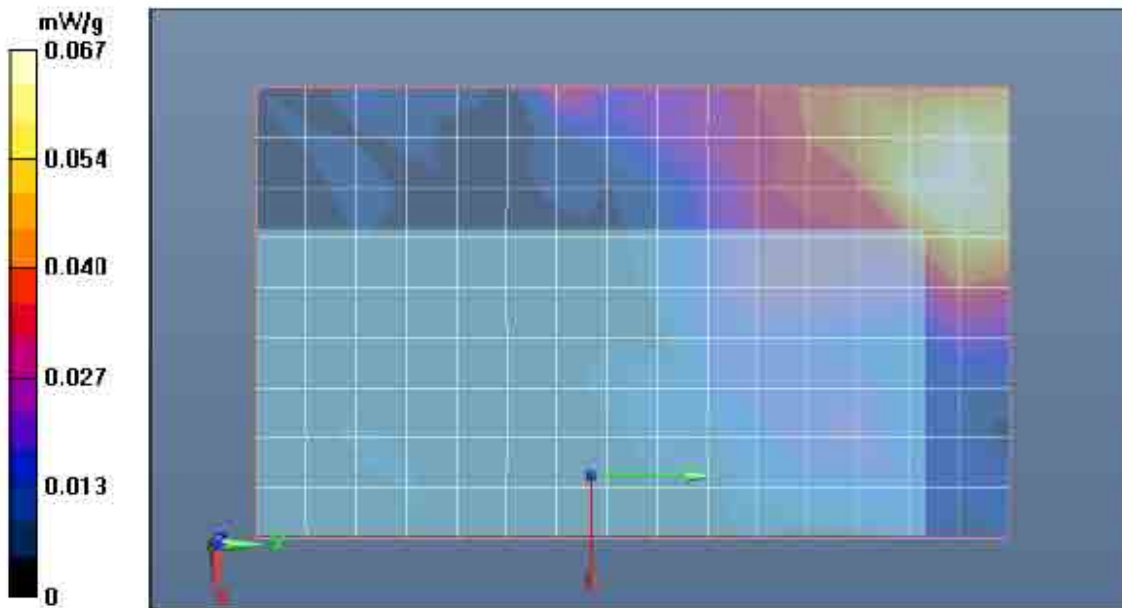
Reference Value = 3.458 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.0359 mW/g; SAR(10 g) = 0.0154 mW/g

Maximum value of SAR (measured) = 0.071 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.051 mW/g



**Section 7.0 – 802.11a (5.745 – 5.825GHz)**  
**Assessments at the Body**  
**(Section 13.3.1 TABLE 18)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/16/2012 12:36:18 PM, Date/Time: 2/16/2012 12:55:09 PM, Date/Time: 2/16/2012 1:15:33 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-120216-06  
 Phantom# / Tissue Temp.: DUAL1002-Side B / 21.1 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5785 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: SYN2680A / SKN6371C  
 Start Power: 0.0776 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0523 mW/g (1g), 0.0214 mW/g (10g)

Comments: Full Scan: Display Side Towards Tech.  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(3.59, 3.59, 3.59)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1-4.00037, Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.77$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Ab Scan/1-Area Scan (101x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.110 V/m; Power Drift = -0.43 dB

Motorola Fast SAR: SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (interpolated) = 0.090 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/2-Zoom Scan (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

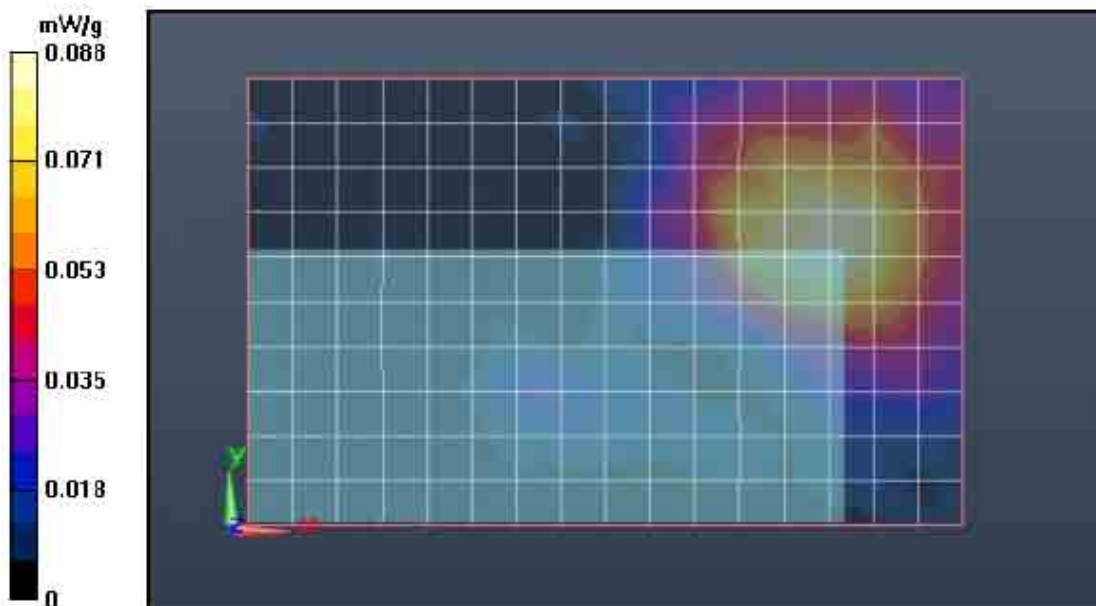
Reference Value = 4.110 V/m; Power Drift = -0.55 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.0523 mW/g; SAR(10 g) = 0.0214 mW/g

Maximum value of SAR (measured) = 0.093 mW/g

**4-6 GHz-Rev.1f/Full Ab Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.077 mW/g





**Section 8.0 – 802.11a (5.745 – 5.825GHz)  
Assessments at the Head – Tilt position  
(Section 13.3.2 TABLE 19)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 1:55:06 PM, Date/Time: 2/9/2012 2:08:48 PM, Date/Time: 2/9/2012 2:29:48 PM

Robot# / Run#: DASY5-FL-2 / JsT-Rear-120209-08  
Phantom# / Tissue Temp.: SAMTP1209 / 20.7 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5805 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0759 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.314 mW/g (1g); 0.112 mW/g (10g)

Comments: Full Scan; Tilt

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5805$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 33.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/1-Area Scan (81x161x1):** Measurement

grid: dx=9mm, dy=9mm

Reference Value = 4.709 V/m; Power Drift = -0.62 dB

Motorola Fast SAR: SAR(1 g) = 0.754 mW/g; SAR(10 g) = 1.08 mW/g

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

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/2-Zoom Scan (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.709 V/m; Power Drift = -0.95 dB

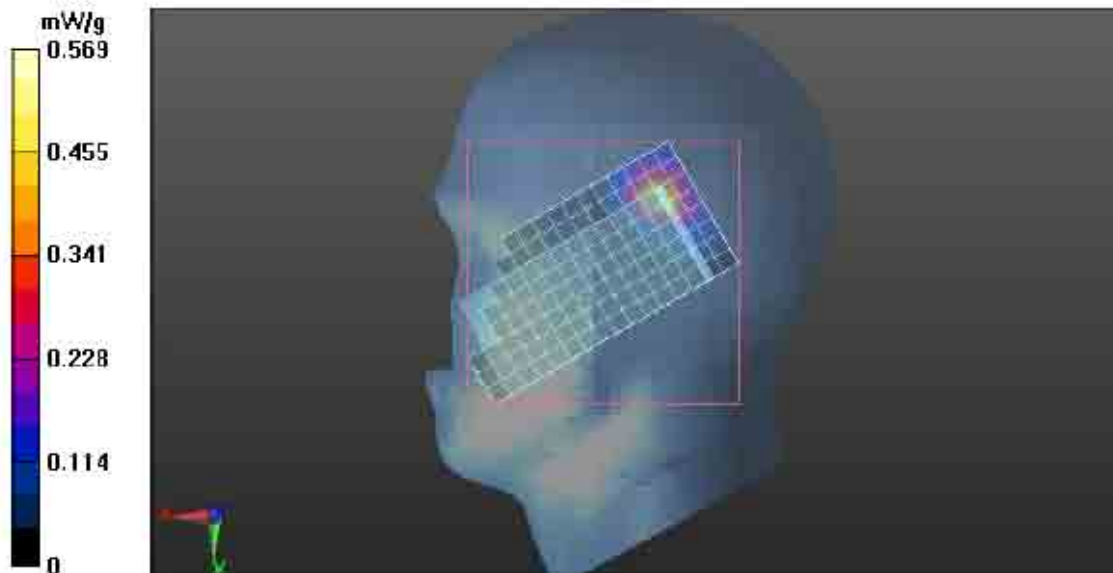
Peak SAR (extrapolated) = 1.107 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.588 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Tilt Position/3-Z-Axis Scan (1x1x17):** Measurement

grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.589 mW/g



**Section 8.0 – 802.11a (5.745 – 5.825GHz)  
Assessments at the Head – Touch position  
(Section 13.3.2 TABLE 19)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/9/2012 10:57:53 AM, Date/Time: 2/9/2012 11:13:16 AM, Date/Time: 2/9/2012 11:34:17 AM

Robot# / Run#: DASY5-FL-2 / JsT-Rear-120209-05  
Phantom# / Tissue Temp.: SAMTP1209 / 20.9 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 5785 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0776 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.302 mW/g (1g); 0.106 mW/g (10g)

Comments: Full Scan; Touch

Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.67$  mho/m;  $\epsilon_c = 33.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/1-Area Scan (91x161x1):**

Measurement grid: dx=9mm, dy=9mm

Reference Value = 4.507 V/m; Power Drift = -0.23 dB

Motorola Fast SAR: SAR(1 g) = 0.705 mW/g; SAR(10 g) = 1.02 mW/g

Maximum value of SAR (interpolated) = 0.580 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/2-Zoom Scan (8x8x12)/Cube 0:**

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.507 V/m; Power Drift = -0.18 dB

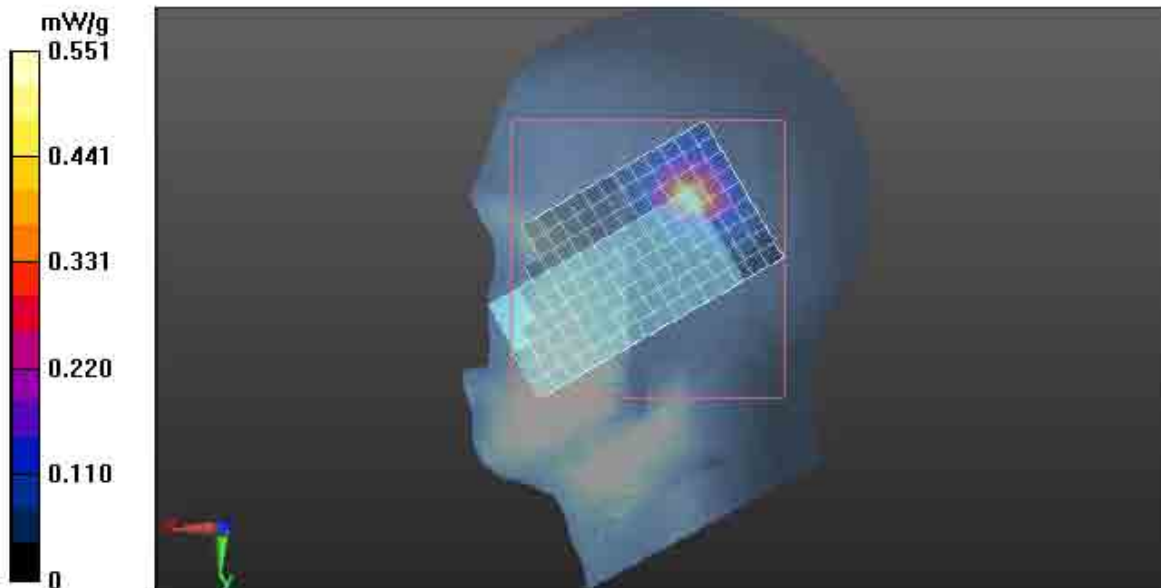
Peak SAR (extrapolated) = 1.103 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.584 mW/g

**4-6 GHz-Rev.1f/Full Scan Right Ear-Touch Position/3-Z-Axis Scan (1x1x17):** Measurement

grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.583 mW/g



**Section 9.0 – 802.11a (5.745 – 5.825GHz)**  
**Assessments at the Face**  
**(Section 13.3.3 TABLE 19)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/12/2012 12:00:03 PM, Date/Time: 2/12/2012 12:15:42 PM, Date/Time: 2/12/2012 1:15:29 PM

Robot# / Run#: DASY5-FL-2 / JsT-Face-120212-06  
 Phantom# / Tissue Temp.: SAMTP1209 / 20.1 (C)  
 DUT Model# / Serial#: EWP3200 / 847SMN0038  
 Antenna / TX Freq.: 0789971V87 (Internal) / 5745 (MHz)  
 Battery: SNN5793A w/ Cover FHN7440A  
 Carry Acc. / Cable Acc.: None / None  
 Start Power: 0.0776 (W)

**Note:**

Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 3-6 GHz.

Reported SAR: 0.0429 mW/g (1g); 0.0175 mW/g (10g)

Comments: Full Scan: Front of DUT @ 2.5 cm and Display Side Towards Right.  
 Probe: EX3DV4 - SN3735, Calibrated: 9/26/2011, ConvF(4.16, 4.16, 4.16)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.00037, Medium parameters used:  $f = 5745$  MHz,  $\sigma = 5.4$  mho/m;  $\epsilon_r = 32.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**4-6 GHz-Rev.1f/Full Face Scan/1-Area Scan (91x161x1):** Measurement grid: dx=9mm, dy=9mm

Reference Value = 3.629 V/m; Power Drift = -0.44 dB

Motorola Fast SAR: SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (interpolated) = 0.079 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/2-Zoom Scan (10x19x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

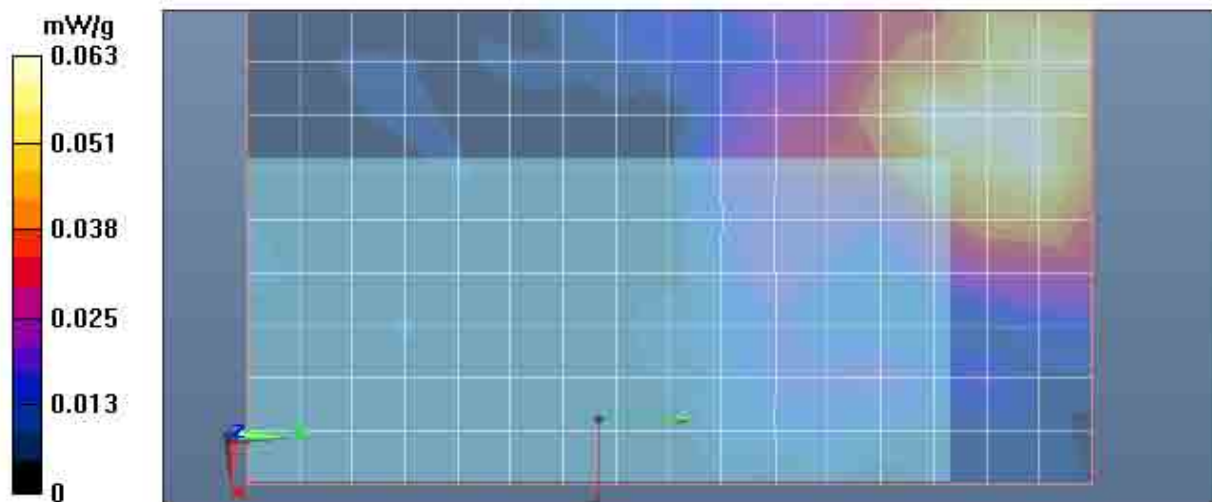
Reference Value = 3.629 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.0429 mW/g; SAR(10 g) = 0.0175 mW/g

Maximum value of SAR (measured) = 0.064 mW/g

**4-6 GHz-Rev.1f/Full Face Scan/3-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.052 mW/g



## Section 10.0 – 802.11b (2.412 – 2.462GHz) Assessments at the Body (Section 13.4.1 TABLE 20)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/18/2012 10:27:59 AM, Date/Time: 2/18/2012 10:35:40 AM, Date/Time: 2/18/2012 10:38:22 AM,  
Date/Time: 2/18/2012 10:44:24 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-120218-03  
Phantom# / Tissue Temp.: DUAL1002-Side A / 21.5 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 2437 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: EWPACCUC001 / SJYN0264C  
Start Power: 0.0832 (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: 0.0527 mW/g (1g), 0.0314 mW/g (10g)

Comments: Full Scan; Back of DUT Facing Phantom, Display Side Towards Tech. and Audio Port Facing Up.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.3, 4.3, 4.3)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.05976, Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (101x61x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.407 V/m; Power Drift = -0.29 dB

Motorola Fast SAR: SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (interpolated) = 0.059 mW/g

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

Reference Value = 5.407 V/m; Power Drift = -0.36 dB

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

Motorola Fast SAR: SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.030 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

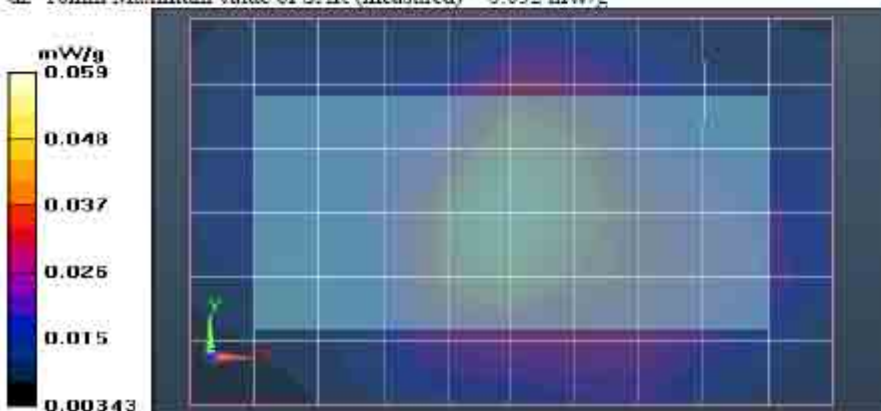
Reference Value = 5.407 V/m; Power Drift = -0.79 dB

Peak SAR (extrapolated) = 0.088 W/kg

SAR(1 g) = 0.0527 mW/g; SAR(10 g) = 0.0314 mW/g

Maximum value of SAR (measured) = 0.056 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.052 mW/g



## Section 11.0 – 802.11b (2.412 – 2.462GHz) Assessments at the Head- Tilt position (Section 13.4.2 TABLE 21)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/16/2012 9:05:35 PM, Date/Time: 2/16/2012 9:14:30 PM, Date/Time: 2/16/2012 9:17:16 PM,  
Date/Time: 2/16/2012 9:23:42 PM

Robot# / Run#: DASY5-FL-2 / CM-Rear-120216-13  
Phantom# / Tissue Temp.: SAMTP1234 / 21.0 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 2437 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0832 (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: 0.0639 mW/g (1g); 0.0328 mW/g (10g)

Comments: Tilt

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.56, 4.56, 4.56)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.05976, Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

#### **Below 3 GHz-Rev.4e/Right Ear-15D Tilt Position/1-Area Scan (71x111x1): Measurement**

grid: dx=15mm, dy=15mm

Reference Value = 6.076 V/m; Power Drift = -0.32 dB

**Motorola Fast SAR: SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (interpolated) = 0.066 mW/g

#### **Below 3 GHz-Rev.4e/Right Ear-15D Tilt Position/2-Volume 2D Scan (41x41x1):**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 6.076 V/m; Power Drift = -0.21 dB

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

**Motorola Fast SAR: SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.032 mW/g**

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (interpolated) = 0.072 mW/g

#### **Below 3 GHz-Rev.4e/Right Ear-15D Tilt Position/3-Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 6.076 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 0.129 W/kg

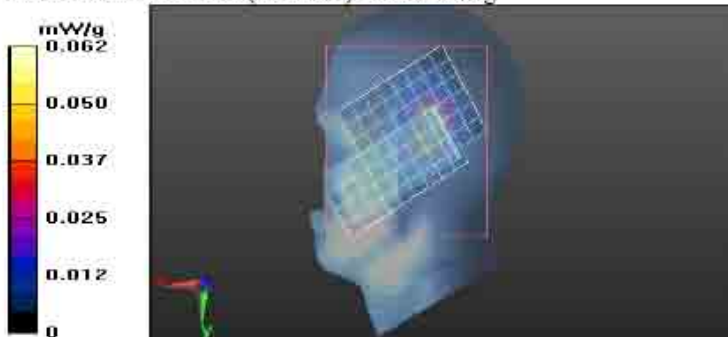
**SAR(1 g) = 0.0636 mW/g; SAR(10 g) = 0.0327 mW/g**

Maximum value of SAR (measured) = 0.068 mW/g

#### **Below 3 GHz-Rev.4e/Right Ear-15D Tilt Position/4-Z-Axis Scan (1x1x17): Measurement**

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

Maximum value of SAR (measured) = 0.069 mW/g



## Section 11.0 – 802.11b (2.412 – 2.462GHz) Assessments at the Head- Touch position (Section 13.4.2 TABLE 21)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/16/2012 8:26:21 PM, Date/Time: 2/16/2012 8:35:17 PM, Date/Time: 2/16/2012 8:37:45 PM,  
Date/Time: 2/16/2012 8:44:39 PM

Robot# / Run# : DASY5-FL-2 / CM-Rear-120216-12  
Phantom# / Tissue Temp.: SAMTP1234 / 21.0 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 2437 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0832 (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: 0.0921 mW/g (1g), 0.0461 mW/g (10g)

#### Comments: Touch

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.56, 4.56, 4.56)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1.4.05976, Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Right Ear-Touch Position/1-Area Scan (71x111x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.181 V/m, Power Drift = -0.026 dB

Motorola Fast SAR: SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (interpolated) = 0.088 mW/g

**Below 3 GHz-Rev.4e/Right Ear-Touch Position/2-Volume 2D Scan (41x41x1):**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 4.181 V/m, Power Drift = -0.039 dB

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

Motorola Fast SAR: SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.044 mW/g

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (interpolated) = 0.104 mW/g

**Below 3 GHz-Rev.4e/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 4.181 V/m, Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.189 W/kg

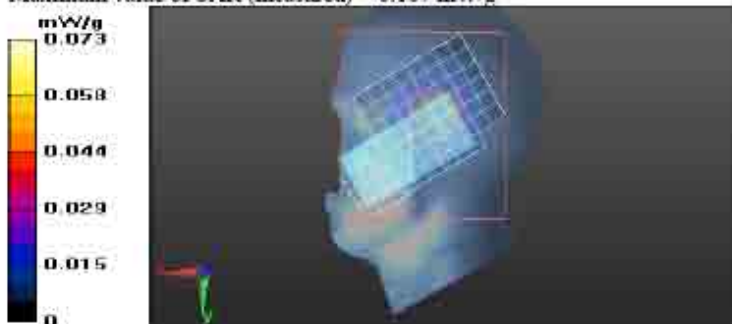
SAR(1 g) = 0.0917 mW/g; SAR(10 g) = 0.0459 mW/g

Maximum value of SAR (measured) = 0.102 mW/g

**Below 3 GHz-Rev.4e/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17):** Measurement grid:

dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.107 mW/g



**Section 12.0 – 802.11b (2.412 – 2.462GHz)  
Assessments at the Face  
(Section 13.4.3 TABLE 21)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 2/17/2012 4:21:57 PM, Date/Time: 2/17/2012 4:30:50 PM, Date/Time: 2/17/2012 4:33:34 PM,  
Date/Time: 2/17/2012 4:42:15 PM

Robot# / Run#: DASY5-FL-2 / JsT-Face-120217-16  
Phantom# / Tissue Temp.: SAMTP1234 / 20.5 (C)  
DUT Model# / Serial#: EWP3200 / 847SMN0038  
Antenna / TX Freq.: 0789971V87 (Internal) / 2437 (MHz)  
Battery: SNN5793A w/ Cover FHN7440A  
Carry Acc. / Cable Acc.: None / None  
Start Power: 0.0832 (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: 0.00827 mW/g (1g); 0.004533 mW/g (10g)

Comments: Full Scan; Front of DUT @ 2.5 cm

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(4.56, 4.56, 4.56)

Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:4.05976, Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (71x101x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 1.375 V/m; Power Drift = 0.21 dB

Motorola Fast SAR: SAR(1 g) = 0.00943 mW/g; SAR(10 g) = 0.005 mW/g

Maximum value of SAR (interpolated) = 0.00994 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 = 1.375 V/m; Power Drift = 0.069 dB

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

Motorola Fast SAR: SAR(1 g) = 0.0084 mW/g; SAR(10 g) = 0.00444 mW/g

Maximum value of SAR (interpolated) = 0.00976 mW/g

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

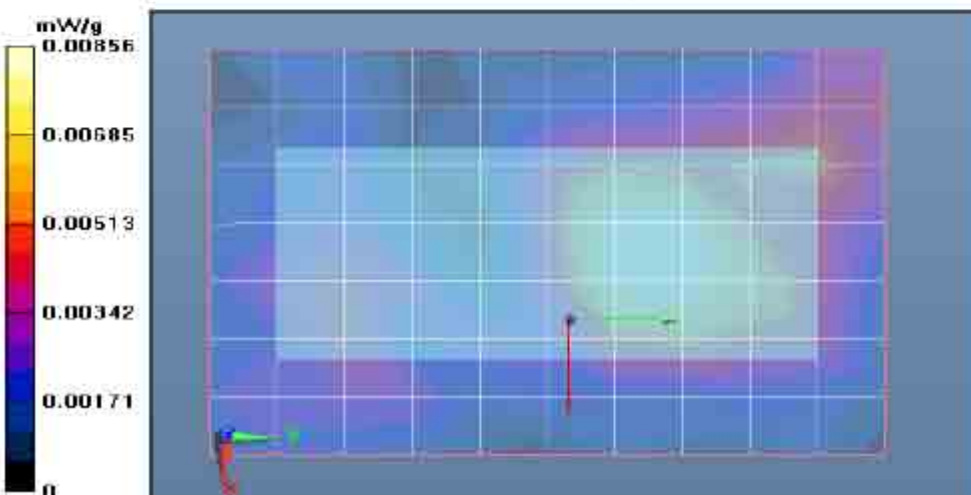
Reference Value = 1.375 V/m; Power Drift = 1 dB

Peak SAR (extrapolated) = 0.014 W/kg

SAR(1 g) = 0.00826 mW/g; SAR(10 g) = 0.00453 mW/g

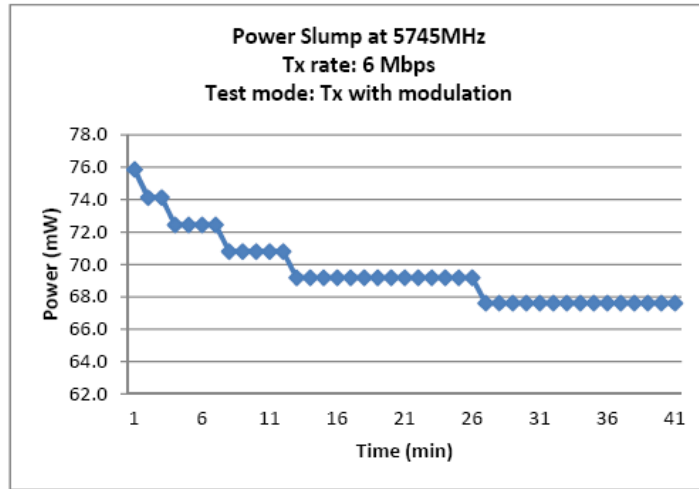
Maximum value of SAR (measured) = 0.00961 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 0.00931 mW/g



## Appendix G DUT Supplementary Data (Power slump)

WLAN 802.11a, 6Mbps Power Slump @ 5745 MHz SN: 847SMN0038		
Time (min)	Power (mW)	Power (dBm)
0	75.9	18.8
1	74.1	18.7
2	74.1	18.7
3	72.4	18.6
4	72.4	18.6
5	72.4	18.6
6	72.4	18.6
7	70.8	18.5
8	70.8	18.5
9	70.8	18.5
10	70.8	18.5
11	70.8	18.5
12	69.2	18.4
13	69.2	18.4
14	69.2	18.4
15	69.2	18.4
16	69.2	18.4
17	69.2	18.4
18	69.2	18.4
19	69.2	18.4
20	69.2	18.4
21	69.2	18.4
22	69.2	18.4
23	69.2	18.4
24	69.2	18.4
25	69.2	18.4
26	67.6	18.3
27	67.6	18.3
28	67.6	18.3
29	67.6	18.3
30	67.6	18.3
31	67.6	18.3
32	67.6	18.3
33	67.6	18.3
34	67.6	18.3
35	67.6	18.3
36	67.6	18.3
37	67.6	18.3
38	67.6	18.3
39	67.6	18.3
40	67.6	18.3
Delta		0.5



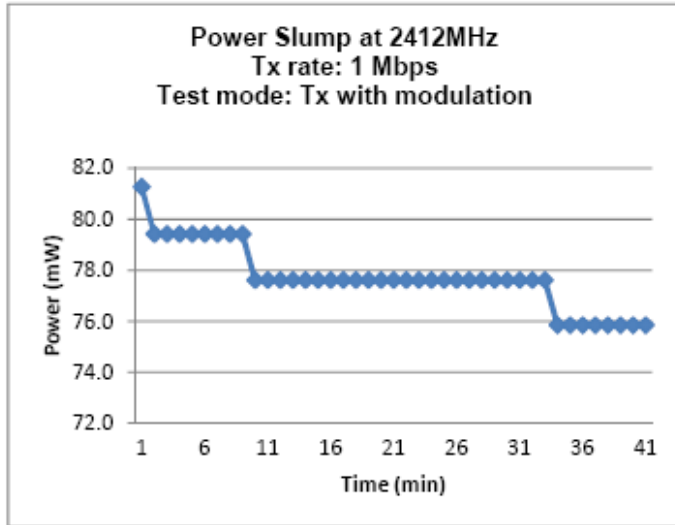
Power output measured with:

- 1) Power meter Model: AGILENT N1911A, S/N: GB45100276
- 2.) Power Sensor Model: AGILENT N1921A, S/N MY45240599

Calibration due date: 31/08/2012



<b>WLAN 802.11b 1Mbps                      Power Slump @2412 MHz                      SN: 847SMN0038</b>		
Time (min)	Power (mW)	Power (dBm)
0	81.3	19.1
1	79.4	19
2	79.4	19
3	79.4	19
4	79.4	19
5	79.4	19
6	79.4	19
7	79.4	19
8	79.4	19
9	77.6	18.9
10	77.6	18.9
11	77.6	18.9
12	77.6	18.9
13	77.6	18.9
14	77.6	18.9
15	77.6	18.9
16	77.6	18.9
17	77.6	18.9
18	77.6	18.9
19	77.6	18.9
20	77.6	18.9
21	77.6	18.9
22	77.6	18.9
23	77.6	18.9
24	77.6	18.9
25	77.6	18.9
26	77.6	18.9
27	77.6	18.9
28	77.6	18.9
29	77.6	18.9
30	77.6	18.9
31	77.6	18.9
32	77.6	18.9
33	75.9	18.8
34	75.9	18.8
35	75.9	18.8
36	75.9	18.8
37	75.9	18.8
38	75.9	18.8
39	75.9	18.8
40	75.9	18.8
Delta		0.3



Power output measured with:

- 1) Power meter Model: AGILENT N1911A, S/N: GB45100276
- 2) Power Sensor Model: AGILENT N1921A, S/N MY45240599

Calibration due date: 31/08/2012

**Appendix H**  
**DUT Test Position Photos**

**Photos available in Exhibit 7B – Temporary Confidentiality Requested**

**Appendix I**  
**DUT, Body worn and Audio Accessories Photos**

**Photos available in Exhibit 7B – Temporary Confidentiality Requested**