


**MOTOROLA SOLUTIONS**

**TESTING CERT # 2518.01**
**DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2**

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

**Date of Report:** 11/16/11  
**Report Revision:** O  
**Report ID:** SR10050/9749/9750 APX4000 U1 1of 2  
**Rev O 111116**

**Responsible Engineer:** Michael Sailsman (Senior Staff Eng.)  
**Report Author:** Michael Sailsman (Senior Staff Eng.)  
**Date/s Tested:** 7/26/11-11/14/11  
**Manufacturer/Location:** Penang  
**Sector/Group/Div.:** GTDG  
**Date submitted for test:** 7/19/11  
**DUT Description:** 380 - 470MHz 3-5.7W 6.25K/12.5K/25K, Single Display Model full keypad. Capable of digital and analog FM transmission. Also capable of TDMA transmission.

**Test TX mode(s):** CW (PTT)  
**Max. Power output:** 5.7 W  
**Nominal Power:** 5.0 W  
**Tx Frequency Bands:** 380-470 MHz  
**Signaling type:** FM  
**Model(s) Tested:** H51QDH9PW7AN (MUE3775), H51QDH9PW7AN (MUE3779)  
**Model(s) Certified:** H51QDH9PW7AN (MUE3779)  
**Serial Number(s):** 426TMM0405, 426TMM0284  
**Classification:** Occupational/Controlled  
**FCC ID:** AZ489FT4907; Rule part 90 (406.1-470.000 MHz)  
**IC:** 109U-89FT4907

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

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.

**Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.**

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

**Approval Date:** 11/16/2011

**Certification Date:** 9/14/2011

**Certification No.:** L110906P

## Appendix D

### Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificates for dipoles D450V2 S/N 1002 and D450V3 S/N 1075 were not used due to the following:

- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.
- SPEAG calibration certificate indicates that the allowed tolerance for these dipoles are higher than +/- 10% (e.g. up to 5.01 +/-18.1% at k=2 for the D450V2 S/N 1002 and 4.69 +/-18.1% at k=2 for the D450V3 S/N 1075).
- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 13.4.0% k=2 at 450 MHz for the probes being used to assess this product).

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

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

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

Note that the targets set for the tested dipoles, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between these results and the results from the manufacture's dipole calibration certificates are -6.39% for D450V2 S/N 1002 dipole and 2.56% for the D450V3 S/N 1075 which are well within the measurement uncertainty of the measurement system at k=2.

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

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 6:43:30 AM, Date/Time: 8/8/2011 6:48:10 AM, Date/Time: 8/8/2011 6:56:00 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-450B-110808-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.9 (C)  
 Dipole Model# / Serial#: D450V2 / 1002  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.37 mW/g (1g)  
 Adjusted SAR (1W): 4.36 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.035 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: 1.09 mW/g (1g); 0.723 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

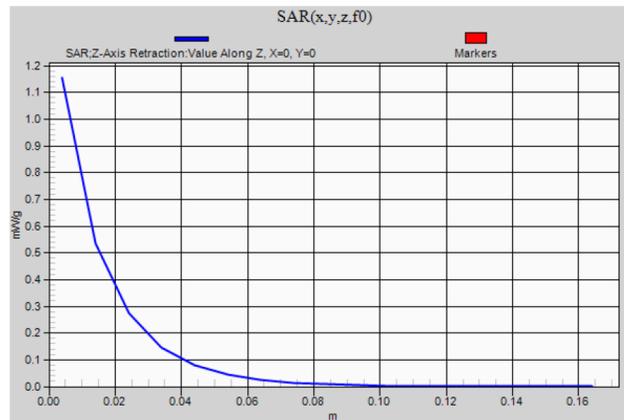
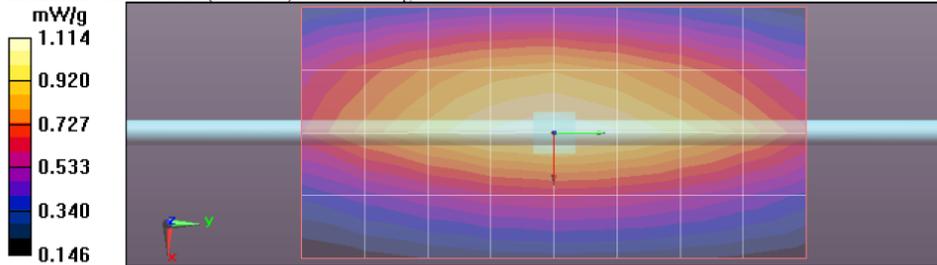
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.114 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 34.878 V/m; Power Drift = 0.0067 dB  
 Peak SAR (extrapolated) = 1.679 W/kg  
**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.721 mW/g**  
 Maximum value of SAR (measured) = 1.167 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) = 1.154 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 6:07:20 AM, Date/Time: 8/9/2011 6:12:03 AM, Date/Time: 8/9/2011 6:19:55 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-450B-110809-01  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 Dipole Model# / Serial#: D450V2 / 1002  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.37 mW/g (1g)  
 Adjusted SAR (1W): 4.36 mW/g (1g)  
 Percent from Target (+/-): 0.2 % (1g)  
 Rotation (1D): 0.035 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: 1.089 mW/g (1g); 0.719 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

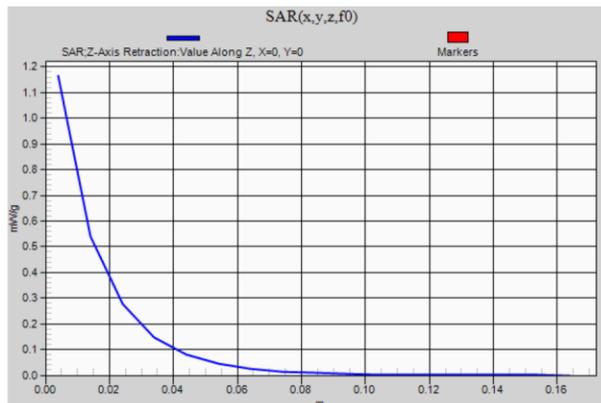
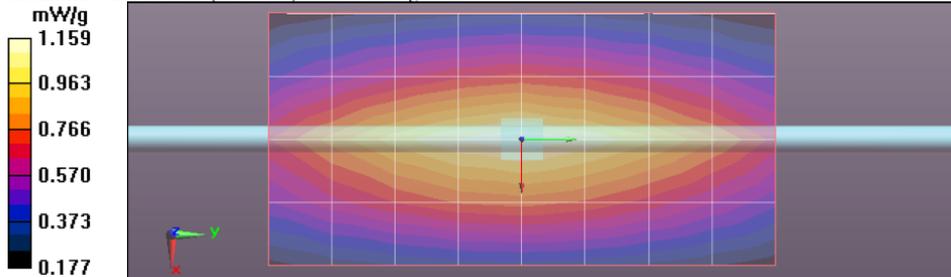
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.159 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 34.789 V/m; Power Drift = 0.0013 dB  
 Peak SAR (extrapolated) = 1.673 W/kg  
 SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.719 mW/g  
 Maximum value of SAR (measured) = 1.163 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) = 1.165 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/10/2011 5:55:48 AM, Date/Time: 8/10/2011 6:00:54 AM, Date/Time: 8/10/2011 6:15:20 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-450H-110810-01  
 Phantom# / Tissue Temp.: OVAL1108 / 21.4 (C)  
 Dipole Model# / Serial#: D450V2 / 1002  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.69 mW/g (1g)  
 Adjusted SAR (1W): 4.64 mW/g (1g)  
 Percent from Target (+/-): 1.1 % (1g)  
 Rotation (1D): 0.048 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: 1.16 mW/g (1g); 0.770 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 43.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

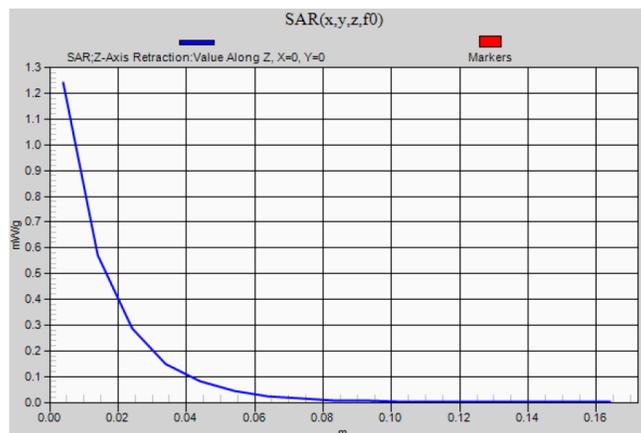
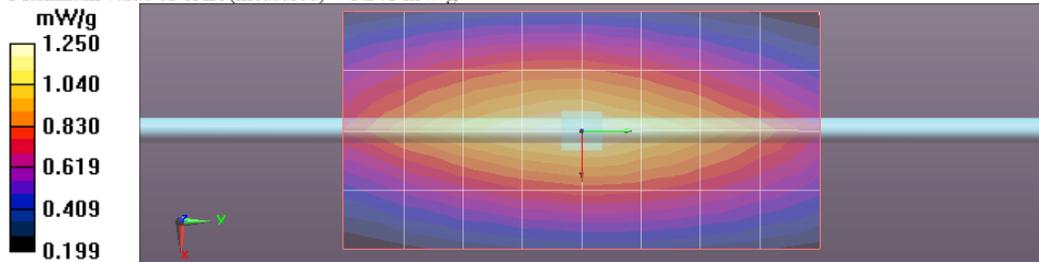
Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.250 mW/g

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 37.842 V/m; Power Drift = 0.0059 dB  
 Peak SAR (extrapolated) = 1.752 W/kg  
**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.769 mW/g**  
 Maximum value of SAR (measured) = 1.239 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) = 1.241 mW/g



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/14/2011 9:48:59 AM, Date/Time: 11/14/2011 9:53:54 AM, Date/Time: 11/14/2011 10:09:54 AM

Robot# / Run#: DASY5-FL-1 / HvH-SYSP-450B-111114-04  
 Phantom# / Tissue Temp.: OVAL1016 / 20.4 (C)  
 Dipole Model# / Serial#: D450V3 / 1075  
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.65 mW/g (1g)  
 Adjusted SAR (1W): 4.48 mW/g (1g)  
 Percent from Target (+/-): 3.7 % (1g)  
 Rotation (1D): 0.012 dB

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

Reported SAR: 1.12 mW/g (1g); 0.748 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
 Electronics: DAE4 Sn1231, Calibrated: 9/21/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.31/System Performance Check/Dipole Area Scan 2 (41x81x1):**

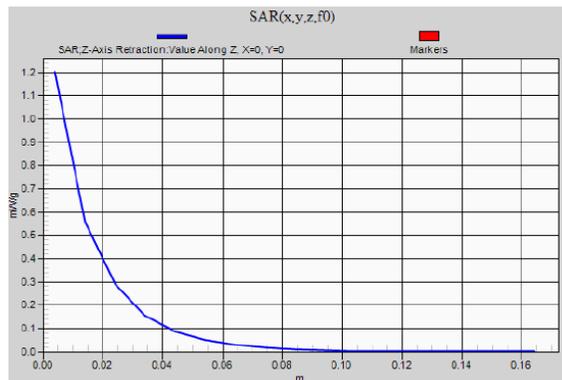
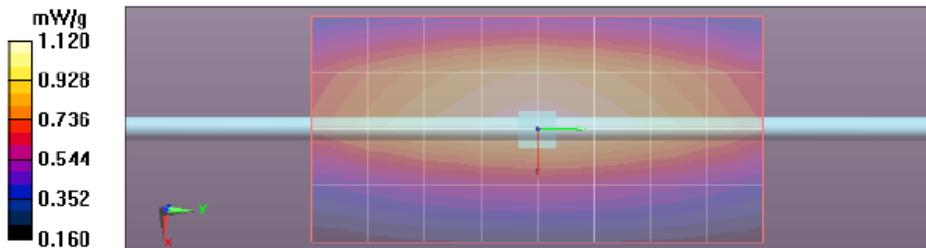
Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 35.771 V/m; Power Drift = -0.0087 dB  
**Motorola Fast SAR: SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.797 mW/g**  
 Maximum value of SAR (interpolated) = 1.190 mW/g

**Below 3 GHz-Rev.31/System Performance Check/0-Degree Cube (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 35.771 V/m; Power Drift = -0.0087 dB  
 Peak SAR (extrapolated) = 1.743 W/kg  
**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.748 mW/g**  
 Maximum value of SAR (measured) = 1.201 mW/g

**Below 3 GHz-Rev.31/System Performance Check/Z-Axis Retraction (1x1x17): Measurement**

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.201 mW/g



**DIPOLE SAR TARGET - HEAD**

Date: 10/13/10 Frequency (MHz): 450  
 Lab Location: FL08-G&PS Mixture Type: IEEE Head  
 DAE Serial #: 729 Ambient Temp.(°C): 21.4

Tissue Characteristics  
 Permittivity: 41.8 Phantom Type/SN: OVAL1016  
 Conductivity: 0.84 Distance (mm): 15  
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 250 mW  
 Reference SN: 1002

**Target 1g-SAR Value (mW/g, normalized to 1.0 W):**  
**4.58**

**Difference from Target**  
**2.47% (1g-SAR)**

**New Target:**  
Average 1g-SAR Value (mW/g): **4.69**

**Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3147	4.64	-1.1%	R2
3163	4.76	1.4%	R2
3185	4.68	-0.3%	R2
<b>Average 4.6933</b>		<b>New Measured SAR Value</b>	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - BODY**

Date: 10/13/10 Frequency (MHz): 450  
 Lab Location: FL08-G&PS Mixture Type: Body  
 DAE Serial #: 729 Ambient Temp.(°C): 21.6

Tissue Characteristics

Permittivity: 56.0 Phantom Type/SN: OVAL1011  
 Conductivity: 0.93 Distance (mm): 15  
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 250 mW  
 Reference SN: 1002

**New Target:**

Average Measured SAR Value: 4.37 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	4.32	-1.2%	R2
3163	4.40	0.6%	R2
3185	4.40	0.6%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - HEAD**

Date: 09/12/11 Frequency (MHz): 450  
 Lab Location: FL08 Mixture Type: IEEE Head  
 DAE Serial #: 401 Ambient Temp.(°C): 21.9

Tissue Characteristics  
 Permittivity: 44.3 Phantom Type/SN: OVAL1108  
 Conductivity: 0.88 Distance (mm): 15  
 Tissue Temp.(°C): 21.8

Reference Source: Dipole Power to Dipole: 250 mW  
 Reference SN: 1075

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

**4.58**

**Difference from Target**

5.09% (1g-SAR)

**New Target:**

Average 1g-SAR Value (mW/g):	<b>4.81</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
3147	4.84	0.6%	R1
3163	4.76	-1.1%	R1
3185	4.84	0.6%	R1
<b>Average</b>	<b>4.8133</b>	<b>New Measured SAR Value</b>	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**DIPOLE SAR TARGET - BODY**

Date: 09/12/11 Frequency (MHz): 450  
 Lab Location: FL08 Mixture Type: Body  
 DAE Serial #: 401 Ambient Temp.(°C): 22.1

**Tissue Characteristics**

Permittivity: 56.1 Phantom Type/SN: OVAL1090  
 Conductivity: 0.95 Distance (mm): 15  
 Tissue Temp.(°C): 21.8

Reference Source: Dipole Power to Dipole: 250 mW  
 Reference SN: 1075

**New Target:**

Average Measured SAR Value: 4.65 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	4.72	1.4%	R1
3163	4.56	-2.0%	R1
3185	4.68	0.6%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

**Appendix E**  
**FCC Part 90 (406.1 – 470.000 MHz)**  
**DUT Scans (Highest SAR configurations)**

**Section 13.14 Table 29  
Body - Highest SAR Configuration Result**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 3:24:10 PM, Date/Time: 8/9/2011 3:37:23 PM, Date/Time: 8/9/2011 3:43:34 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-14  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ RMN5058A  
 Start Power: 5.90 (W)

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

Reported SAR: 11.05 mW/g (1g); 7.81 mW/g (10g)

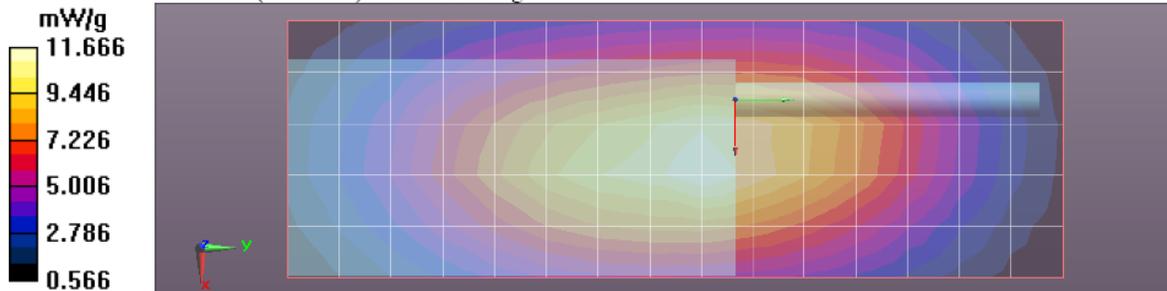
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.666 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 100.8 V/m; Power Drift = -0.25 dB  
 Peak SAR (extrapolated) = 16.050 W/kg  
**SAR(1 g) = 11 mW/g; SAR(10 g) = 7.79 mW/g**  
 Maximum value of SAR (measured) = 11.795 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.660 mW/g



## Section 13.22 Table 39

### Face - Highest SAR Configuration Result

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2011 10:56:18 PM, Date/Time: 8/9/2011 11:08:42 PM, Date/Time: 8/9/2011 11:11:40 PM,  
Date/Time: 8/9/2011 11:17:58 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110809-24  
Phantom# / Tissue Temp.: OVAL1108 / 21.0 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: NONE / NONE  
Start Power: 5.88 (W)

**Note:**

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

Reported SAR: 6.64 mW/g (1g); 4.97 mW/g (10g)

Comments: Full Scan; Front of radio facing phantom at 2.5 cm.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)

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

Duty Cycle: 1:1, Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x181x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 86.329 V/m; Power Drift = 0.10 dB

**Motorola Fast SAR: SAR(1 g) = 6.53 mW/g; SAR(10 g) = 4.88 mW/g**

Maximum value of SAR (interpolated) = 6.843 mW/g

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

dy=7.5mm, dz=1mm

Reference Value = 86.329 V/m; Power Drift = 0.097 dB

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

**Motorola Fast SAR: SAR(1 g) = 6.58 mW/g; SAR(10 g) = 4.9 mW/g**

Maximum value of SAR (interpolated) = 6.911 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 86.329 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 8.621 W/kg

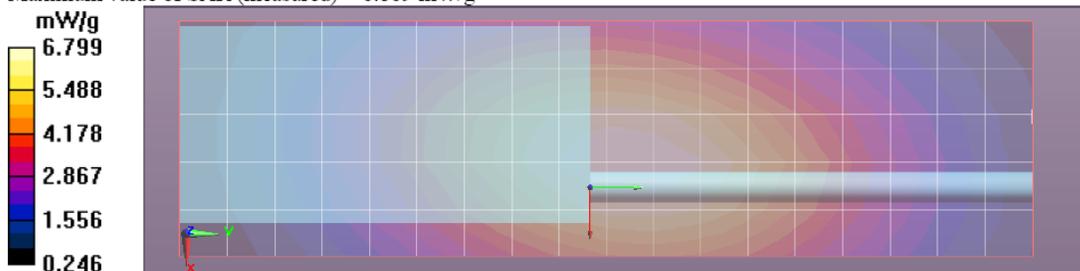
**SAR(1 g) = 6.55 mW/g; SAR(10 g) = 4.92 mW/g**

Maximum value of SAR (measured) = 6.879 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) = 6.869 mW/g



**Appendix F**  
**DUT Scans - FCC Part 90 (406.1 – 470.000 MHz)**

**Section 13.2 Table 13  
Assessments at the Body with Body worn PMLN4651A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 12:41:20 PM, Date/Time: 8/8/2011 12:54:35 PM, Date/Time: 8/8/2011 1:02:03 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110808-05  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 454.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B  
 Start Power: 5.89 (W)

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

Reported SAR: 8.05 mW/g (1g); 7.53 mW/g (10g)

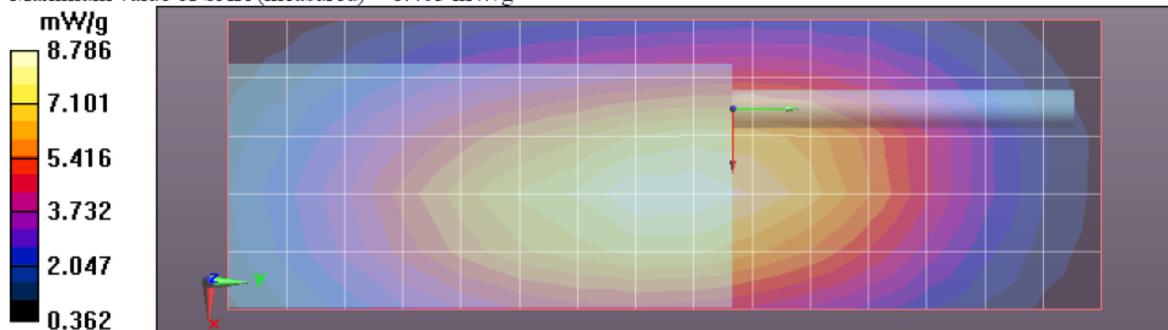
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 454 MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 8.786 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 84.039 V/m; Power Drift = -0.64 dB  
 Peak SAR (extrapolated) = 11.571 W/kg  
 SAR(1 g) = 8.05 mW/g; SAR(10 g) = 5.73 mW/g  
 Maximum value of SAR (measured) = 8.554 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) = 8.403 mW/g



**Section 13.2 Table 14**  
**Assessments at the Body with Body worn PMLN4651A (additional battery)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 4:18:58 PM, Date/Time: 8/8/2011 4:29:18 PM, Date/Time: 8/8/2011 4:32:11 PM,  
 Date/Time: 8/8/2011 4:38:23 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110808-08  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 454.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B  
 Start Power: 5.84 (W)

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

Reported SAR: 5.63 mW/g (1g); 4.04 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 454 MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 76.198 V/m; Power Drift = -0.23 dB

**Motorola Fast SAR: SAR(1 g) = 5.83 mW/g; SAR(10 g) = 4.28 mW/g**

Maximum value of SAR (interpolated) = 6.165 mW/g

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

Reference Value = 76.198 V/m; Power Drift = -0.30 dB

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

**Motorola Fast SAR: SAR(1 g) = 5.8 mW/g; SAR(10 g) = 4.21 mW/g**

Maximum value of SAR (interpolated) = 6.138 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 = 76.198 V/m; Power Drift = -0.38 dB

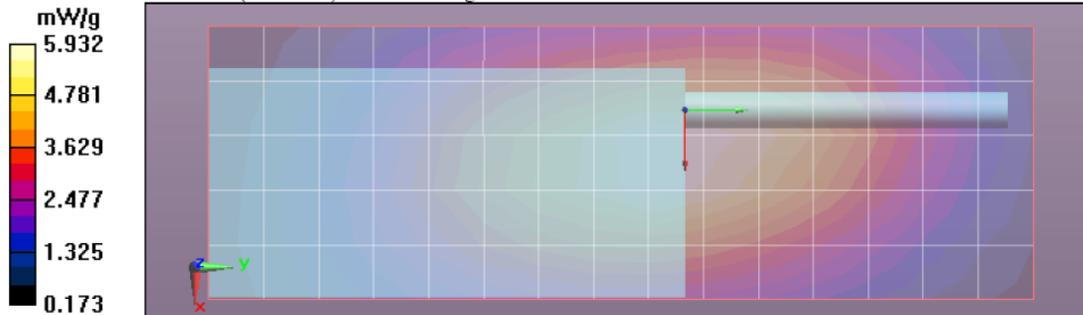
Peak SAR (extrapolated) = 7.942 W/kg

**SAR(1 g) = 5.63 mW/g; SAR(10 g) = 4.04 mW/g**

Maximum value of SAR (measured) = 5.957 mW/g

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

Maximum value of SAR (measured) = 5.872 mW/g



**Section 13.3 Table 15  
Assessments at the Body with Body worn PMLN7008A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 6:25:50 PM, Date/Time: 8/8/2011 6:36:12 PM, Date/Time: 8/8/2011 6:39:07 PM,  
Date/Time: 8/8/2011 6:45:19 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110808-11  
Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B  
Start Power: 5.83 (W)

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

Reported SAR: 11.2 mW/g (1g); 8.00 mW/g (10g)

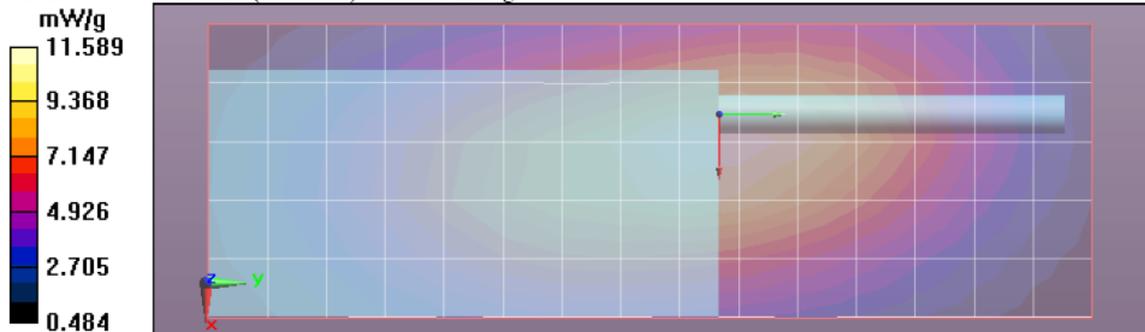
Comments: Full Scan  
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 107.8 V/m; Power Drift = -0.07 dB  
**Motorola Fast SAR: SAR(1 g) = 11.1 mW/g; SAR(10 g) = 8.16 mW/g**  
Maximum value of SAR (interpolated) = 11.803 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 107.8 V/m; Power Drift = -0.061 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.25 mW/g**  
Maximum value of SAR (interpolated) = 12.000 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 107.8 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 16.230 W/kg  
**SAR(1 g) = 11.2 mW/g; SAR(10 g) = 8 mW/g**  
Maximum value of SAR (measured) = 11.897 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 11.806 mW/g



**Section 13.3 Table 16**  
**Assessments at the Body with Body worn PMLN7008A (additional battery)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 8:50:27 PM, Date/Time: 8/8/2011 9:00:47 PM, Date/Time: 8/8/2011 9:03:38 PM,  
Date/Time: 8/8/2011 9:09:48 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110808-15  
Phantom# / Tissue Temp.: OVAL1090 / 21.1 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B  
Start Power: 5.85 (W)

Note:

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

Reported SAR: 8.88 mW/g (1g); 6.38 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 94.512 V/m; Power Drift = -0.13 dB

**Motorola Fast SAR: SAR(1 g) = 8.9 mW/g; SAR(10 g) = 6.56 mW/g**

Maximum value of SAR (interpolated) = 9.389 mW/g

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

Reference Value = 94.512 V/m; Power Drift = -0.16 dB

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

**Motorola Fast SAR: SAR(1 g) = 9.01 mW/g; SAR(10 g) = 6.53 mW/g**

Maximum value of SAR (interpolated) = 9.522 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 = 94.512 V/m; Power Drift = -0.23 dB

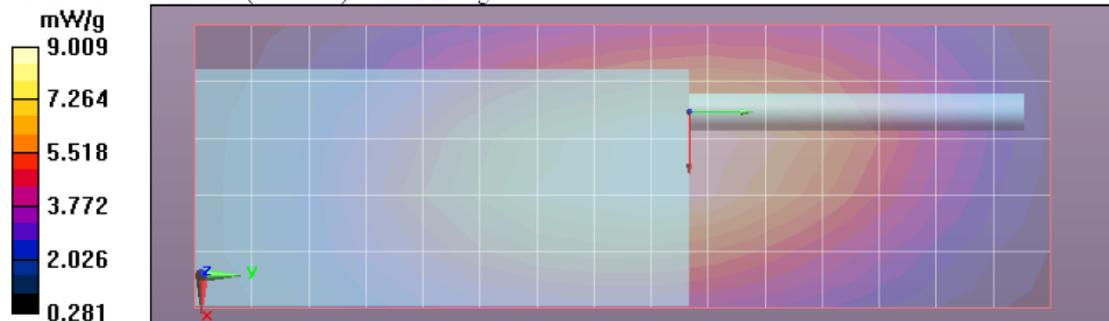
Peak SAR (extrapolated) = 12.546 W/kg

**SAR(1 g) = 8.88 mW/g; SAR(10 g) = 6.38 mW/g**

Maximum value of SAR (measured) = 9.416 mW/g

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

Maximum value of SAR (measured) = 9.301 mW/g



**Section 13.4 Table 17**  
**Assessments at the body with Body worn PMLN5950A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/8/2011 9:44:03 PM, Date/Time: 8/8/2011 9:54:22 PM, Date/Time: 8/8/2011 9:57:16 PM,  
Date/Time: 8/8/2011 10:03:30 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110808-16  
Phantom# / Tissue Temp.: OVAL1090 / 21.1 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 422.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B  
Start Power: 5.88 (W)

**Note:**

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

Reported SAR: 2.41 mW/g (1g); 1.83 mW/g (10g)

**Comments:** Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)

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

Duty Cycle: 1:1, Medium parameters used:  $f = 422$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 56.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 45.982 V/m; Power Drift = -0.042 dB

**Motorola Fast SAR: SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.77 mW/g**

Maximum value of SAR (interpolated) = 2.483 mW/g

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

Reference Value = 45.982 V/m; Power Drift = -0.068 dB

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

**Motorola Fast SAR: SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.78 mW/g**

Maximum value of SAR (interpolated) = 2.498 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 = 45.982 V/m; Power Drift = -0.11 dB

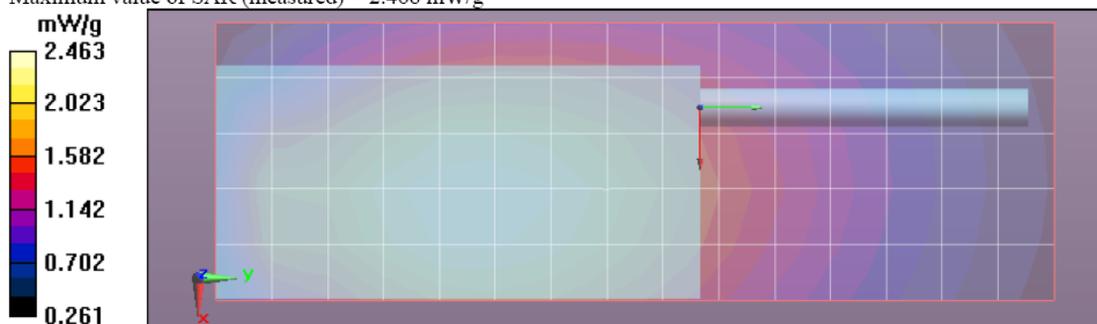
Peak SAR (extrapolated) = 3.126 W/kg

**SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.82 mW/g**

Maximum value of SAR (measured) = 2.496 mW/g

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

Maximum value of SAR (measured) = 2.468 mW/g



**Section 13.4 Table 18**  
**A Assessment at the Body with Body worn PMLN5950A (additional battery)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 7:09:02 AM, Date/Time: 8/9/2011 7:22:16 AM, Date/Time: 8/9/2011 7:28:28 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-02  
 Phantom# / Tissue Temp.: OVAL1090 / 21.4 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 422.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B  
 Start Power: 5.85 (W)

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

Reported SAR: 1.60 mW/g (1g); 1.22 mW/g (10g)

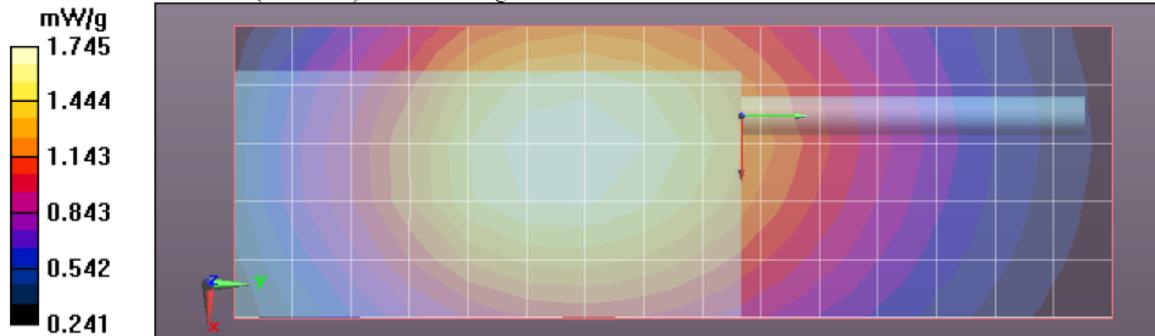
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 422 \text{ MHz}$ ;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 57.2$ ;  $\rho = 1000 \text{ kg/m}^3$

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.745 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 = 44.970 V/m; Power Drift = -0.66 dB  
 Peak SAR (extrapolated) = 2.075 W/kg  
**SAR(1 g) = 1.58 mW/g; SAR(10 g) = 1.21 mW/g**  
 Maximum value of SAR (measured) = 1.654 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.619 mW/g



**Section 13.5 Table 19**  
**Assessment at the Body with Body worn PMLN5950A/NTN5243A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 7:54:25 AM, Date/Time: 8/9/2011 8:07:42 AM, Date/Time: 8/9/2011 8:13:53 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-03  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 422.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN5950A w/NTN5243A/ HMN4104B  
 Start Power: 5.88 (W)

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

Reported SAR: 5.13 mW/g (1g); 3.85 mW/g (10g)

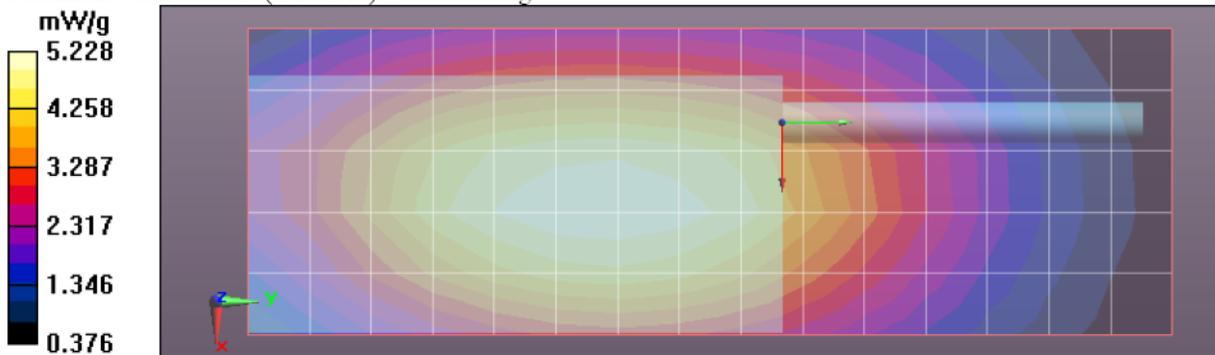
Comments: WO Belt Loop Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 422$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 57.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 5.228 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 = 68.120 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 6.709 W/kg  
**SAR(1 g) = 5.08 mW/g; SAR(10 g) = 3.83 mW/g**  
 Maximum value of SAR (measured) = 5.319 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 5.308 mW/g



**Section 13.5 Table 20**  
**Assessment at the Body with Body worn PMLN5950A/NTN5243A (additional battery)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 9:10:15 AM, Date/Time: 8/9/2011 9:23:23 AM, Date/Time: 8/9/2011 9:29:34 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-05  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 422.0000 (MHz)  
 Battery: NNTN8129A  
 Carry Acc. / Cable Acc.: PMLN5950A w/NTN5243A/ HMN4104B  
 Start Power: 5.89 (W)

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

Reported SAR: 4.48 mW/g (1g); 3.37 mW/g (10g)

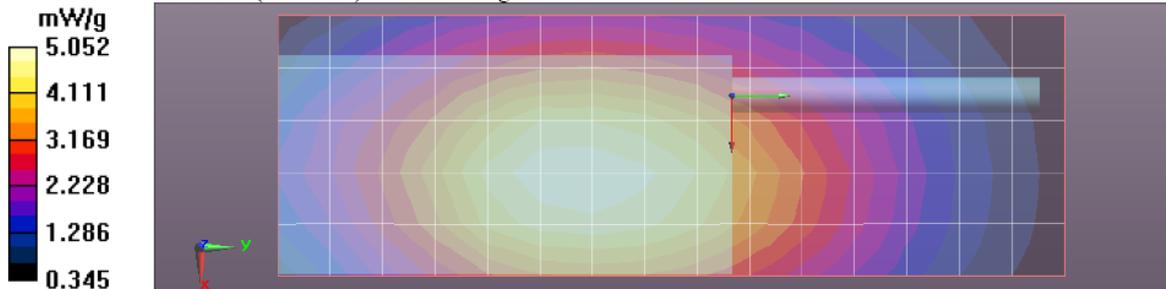
Comments: WO Belt Loop Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 422 \text{ MHz}$ ;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 57.2$ ;  $\rho = 1000 \text{ kg/m}^3$

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 5.052 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 = 67.360 V/m; Power Drift = -0.64 dB  
 Peak SAR (extrapolated) = 5.847 W/kg  
**SAR(1 g) = 4.43 mW/g; SAR(10 g) = 3.35 mW/g**  
 Maximum value of SAR (measured) = 4.629 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 4.596 mW/g



**Section 13.6 Table 21  
Assessment at the Body with Audio HMN4104B/RMN5116A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 9:54:28 AM, Date/Time: 8/9/2011 10:07:41 AM, Date/Time: 8/9/2011 10:13:53 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-06  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ HMN4104B w/RMN5116A  
 Start Power: 5.84 (W)

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

Reported SAR: 10.04 mW/g (1g); 7.12 mW/g (10g)

Comments: Full Scan

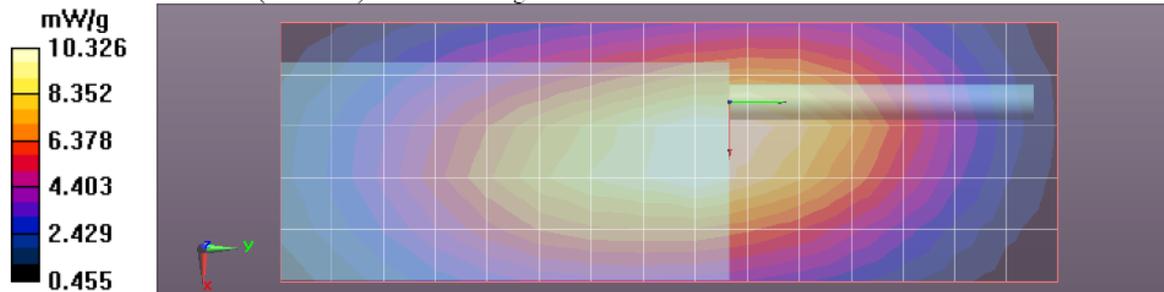
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 438 \text{ MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 56.8$ ;  $\rho = 1000 \text{ kg/m}^3$

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 10.326 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 101.0 V/m; Power Drift = -0.26 dB  
 Peak SAR (extrapolated) = 14.525 W/kg  
**SAR(1 g) = 10 mW/g; SAR(10 g) = 7.1 mW/g**  
 Maximum value of SAR (measured) = 10.587 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
 Maximum value of SAR (measured) = 10.643 mW/g



**Section 13.7 Table 22  
Assessment at the Body with Audio RLN5882A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 10:32:15 AM, Date/Time: 8/9/2011 10:45:30 AM, Date/Time: 8/9/2011 10:51:43 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-07  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ RLN5882A  
 Start Power: 5.91 (W)

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

Reported SAR: 8.65 mW/g (1g); 6.17 mW/g (10g)

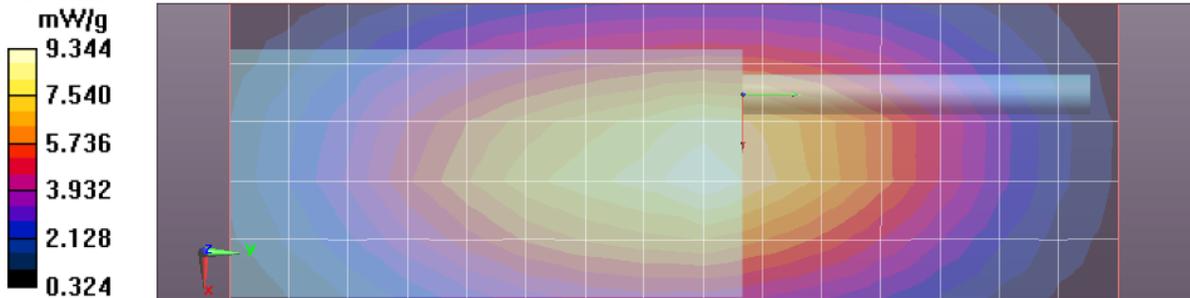
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 9.344 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 = 87.815 V/m; Power Drift = -0.23 dB  
 Peak SAR (extrapolated) = 12.227 W/kg  
**SAR(1 g) = 8.61 mW/g; SAR(10 g) = 6.15 mW/g**  
 Maximum value of SAR (measured) = 9.140 mW/g

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



**Section 13.8 Table 23  
Assessment at the Body with Audio PMLN5111A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 11:24:16 AM, Date/Time: 8/9/2011 11:37:30 AM, Date/Time: 8/9/2011 11:43:43 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-08  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMLN5111A  
 Start Power: 5.89 (W)

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

Reported SAR: 10.95 mW/g (1g); 7.76 mW/g (10g)

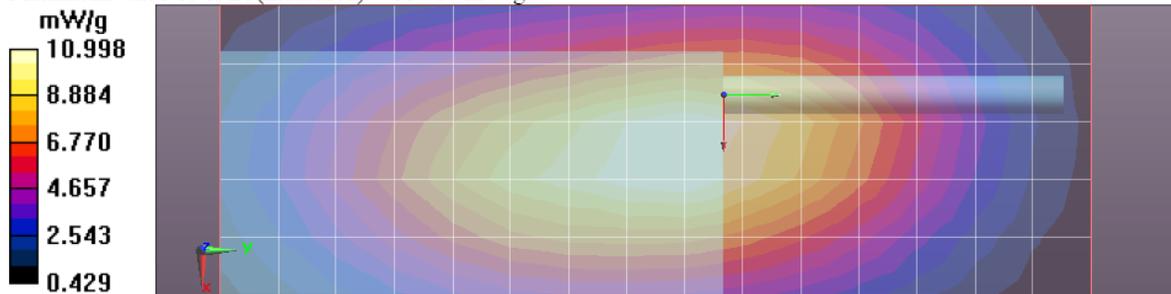
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.998 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 = 101.5 V/m; Power Drift = -0.20 dB  
 Peak SAR (extrapolated) = 15.677 W/kg  
**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.74 mW/g**  
 Maximum value of SAR (measured) = 11.479 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.487 mW/g



**Section 13.9 Table 24  
Assessment at the Body with Audio PMMN4062A**

**Motorola Solutions, Inc. EME Laboratory**

**Date/Time: 8/9/2011 11:59:13 AM, Date/Time: 8/9/2011 12:12:24 PM, Date/Time: 8/9/2011 12:18:38 PM**

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-09  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMMN4062A  
 Start Power: 5.90 (W)

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

Reported SAR: 11.15 mW/g (1g); 7.93 mW/g (10g)

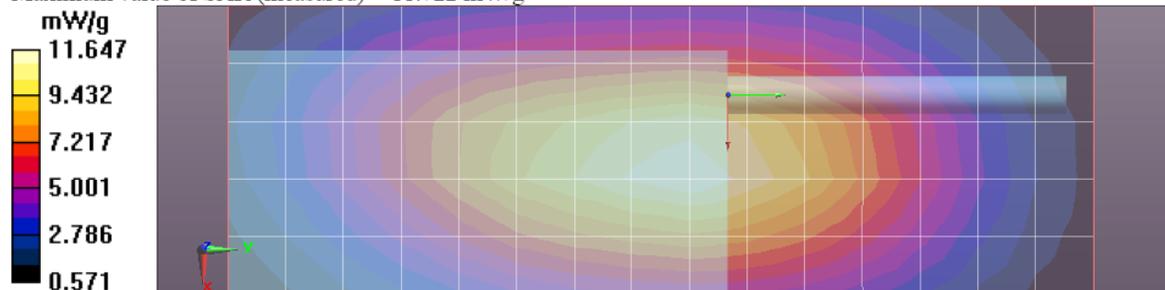
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.647 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 98.122 V/m; Power Drift = -0.16 dB  
 Peak SAR (extrapolated) = 15.991 W/kg  
**SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.91 mW/g**  
 Maximum value of SAR (measured) = 11.721 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.722 mW/g



**Section 13.10 Table 25  
Assessment at the Body with Audio PMMN4065A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 12:31:38 PM, Date/Time: 8/9/2011 12:44:53 PM, Date/Time: 8/9/2011 12:51:07 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-10  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMMN4065A  
 Start Power: 5.82 (W)

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

Reported SAR: 9.94 mW/g (1g); 7.07 mW/g (10g)

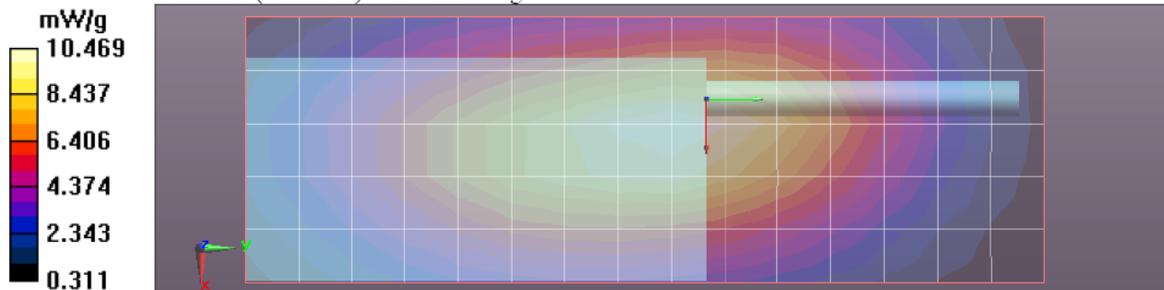
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.469 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 = 101.8 V/m; Power Drift = -0.23 dB  
 Peak SAR (extrapolated) = 14.310 W/kg  
 SAR(1 g) = 9.9 mW/g; SAR(10 g) = 7.05 mW/g  
 Maximum value of SAR (measured) = 10.378 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 10.452 mW/g



**Section 13.11 Table 26  
Assessment at the Body with Audio PMMN4024A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 1:46:11 PM, Date/Time: 8/9/2011 1:59:22 PM, Date/Time: 8/9/2011 2:05:35 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-11  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMMN4024A  
 Start Power: 5.88 (W)

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

Reported SAR: 10.45 mW/g (1g); 7.44 mW/g (10g)

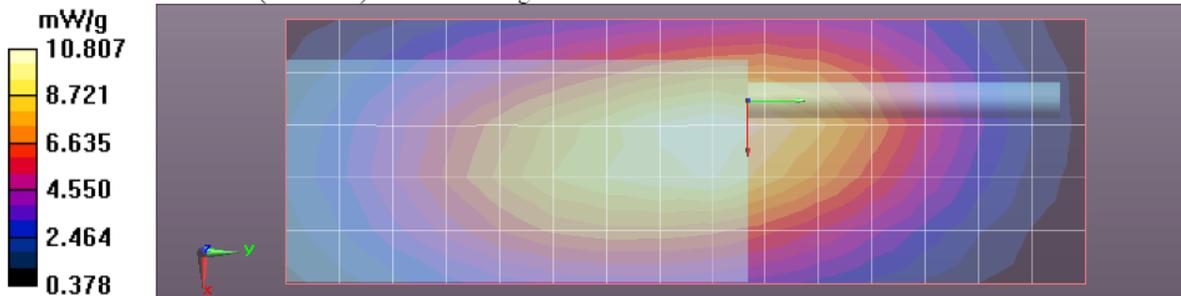
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.807 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 = 101.4 V/m; Power Drift = -0.10 dB  
 Peak SAR (extrapolated) = 15.033 W/kg  
**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.42 mW/g**  
 Maximum value of SAR (measured) = 11.016 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.027 mW/g



**Section 13.12 Table 27  
Assessment at the Body with Audio PMLN5101A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 2:18:54 PM, Date/Time: 8/9/2011 2:32:08 PM, Date/Time: 8/9/2011 2:38:22 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-12  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMLN5101A  
 Start Power: 5.89 (W)

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

Reported SAR: 10.02 mW/g (1g); 7.12 mW/g (10g)

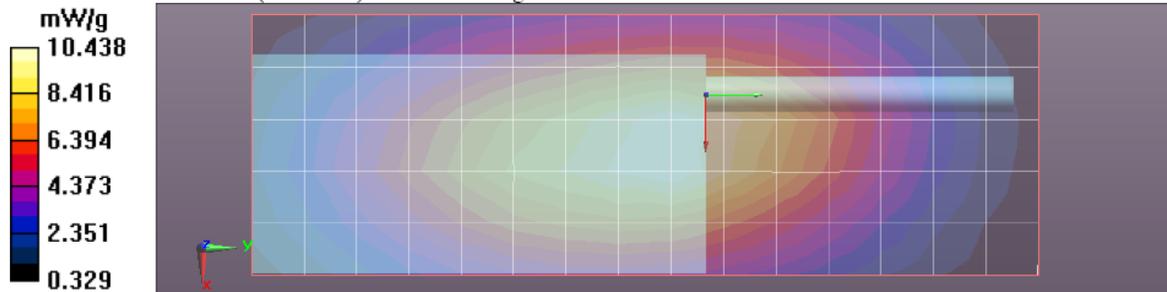
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.438 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 98.717 V/m; Power Drift = -0.37 dB  
 Peak SAR (extrapolated) = 14.252 W/kg  
**SAR(1 g) = 9.98 mW/g; SAR(10 g) = 7.1 mW/g**  
 Maximum value of SAR (measured) = 10.590 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 10.448 mW/g



**Section 13.13 Table 28  
Assessment at the Body with Audio PMLN5275C**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 2:51:55 PM, Date/Time: 8/9/2011 3:05:06 PM, Date/Time: 8/9/2011 3:11:17 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-13  
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ PMLN5275C  
 Start Power: 5.91 (W)

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

Reported SAR: 10.45 mW/g (1g); 7.43 mW/g (10g)

Comments: Full Scan

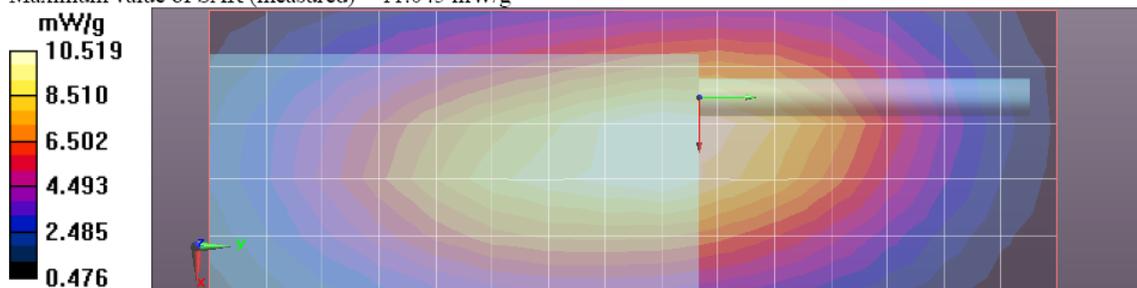
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.519 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 100.5 V/m; Power Drift = -0.17 dB  
 Peak SAR (extrapolated) = 14.996 W/kg  
**SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.41 mW/g**  
 Maximum value of SAR (measured) = 10.989 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.045 mW/g



**Section 13.14 Table 29  
Assessment at the Body with Audio RMN5058A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 3:24:10 PM, Date/Time: 8/9/2011 3:37:23 PM, Date/Time: 8/9/2011 3:43:34 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110809-14  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ RMN5058A  
 Start Power: 5.90 (W)

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

Reported SAR: 11.05 mW/g (1g); 7.81 mW/g (10g)

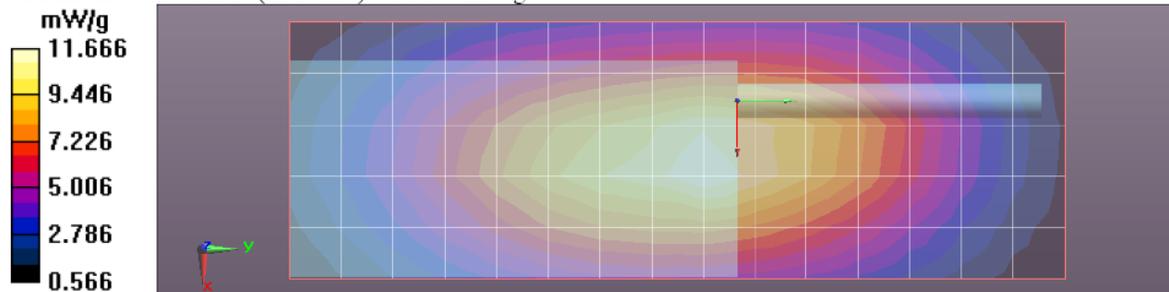
Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x16x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 11.666 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 100.8 V/m; Power Drift = -0.25 dB  
 Peak SAR (extrapolated) = 16.050 W/kg  
**SAR(1 g) = 11 mW/g; SAR(10 g) = 7.79 mW/g**  
 Maximum value of SAR (measured) = 11.795 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 11.660 mW/g



**Section 13.15 Table 30**  
**Assessment at the Body with Audio ZMN6031A/NNTN7869A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 4:16:28 PM, Date/Time: 8/9/2011 4:26:47 PM, Date/Time: 8/9/2011 4:29:38 PM,  
 Date/Time: 8/9/2011 4:35:49 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110809-15  
 Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: PMLN7008A/ ZMN6031A with NNTN7869A  
 Start Power: 5.92 (W)

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

Reported SAR: 8.17 mW/g (1g); 5.79 mW/g (10g)

Comments: Full Scan

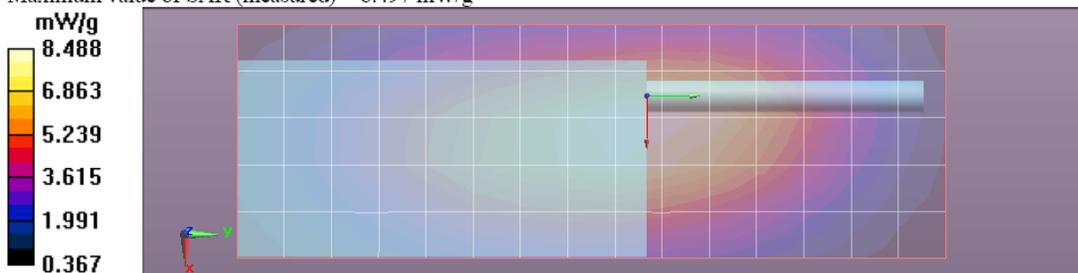
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 90.437 V/m; Power Drift = -0.066 dB  
**Motorola Fast SAR: SAR(1 g) = 8.29 mW/g; SAR(10 g) = 6.06 mW/g**  
 Maximum value of SAR (interpolated) = 8.779 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 90.437 V/m; Power Drift = -0.12 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 8.26 mW/g; SAR(10 g) = 5.99 mW/g**  
 Maximum value of SAR (interpolated) = 8.722 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 = 90.437 V/m; Power Drift = -0.18 dB  
 Peak SAR (extrapolated) = 11.739 W/kg  
**SAR(1 g) = 8.13 mW/g; SAR(10 g) = 5.78 mW/g**  
 Maximum value of SAR (measured) = 8.564 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) = 8.497 mW/g



**Section 13.16 Table 31  
Assessment at the Body with Audio ZMN6032A/NNTN7869A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 4:54:44 PM, Date/Time: 8/9/2011 5:05:07 PM, Date/Time: 8/9/2011 5:07:58 PM,  
Date/Time: 8/9/2011 5:14:09 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110809-16  
Phantom# / Tissue Temp.: OVAL1090 / 21.2 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8128A  
Cable Acc. / Cable Acc.: PMLN7008A/ ZMN6032A with NNTN7869A  
Start Power: 5.91 (W)

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

Reported SAR: 8.72 mW/g (1g); 6.18 mW/g (10g)

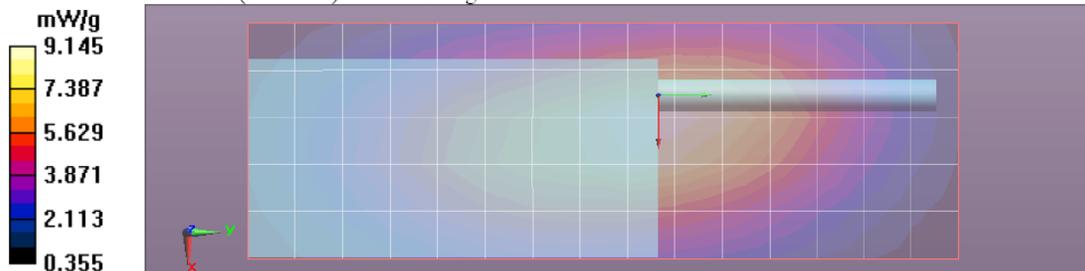
Comments: Full Scan  
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used: f = 438 MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 95.631 V/m; Power Drift = -0.16 dB  
**Motorola Fast SAR: SAR(1 g) = 8.89 mW/g; SAR(10 g) = 6.48 mW/g**  
Maximum value of SAR (interpolated) = 9.419 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 95.631 V/m; Power Drift = -0.20 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 8.84 mW/g; SAR(10 g) = 6.4 mW/g**  
Maximum value of SAR (interpolated) = 9.321 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 95.631 V/m; Power Drift = -0.28 dB  
Peak SAR (extrapolated) = 12.513 W/kg  
**SAR(1 g) = 8.68 mW/g; SAR(10 g) = 6.16 mW/g**  
Maximum value of SAR (measured) = 9.222 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 9.069 mW/g



**Section 13.17 Table 32  
Assessment at the Body with Audio BDN6731A/BDN6783A**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 5:27:30 PM, Date/Time: 8/9/2011 5:37:49 PM, Date/Time: 8/9/2011 5:40:42 PM,  
Date/Time: 8/9/2011 5:46:52 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110809-17  
Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A/ BDN6783A with BDN6731A  
Start Power: 5.92 (W)

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

Reported SAR: 10.85 mW/g (1g); 7.70 mW/g (10g)

Comments: Full Scan

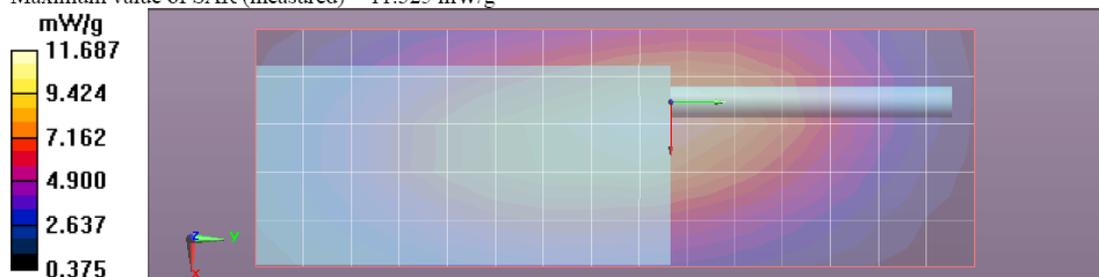
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 107.3 V/m; Power Drift = -0.055 dB  
**Motorola Fast SAR: SAR(1 g) = 11.1 mW/g; SAR(10 g) = 8.04 mW/g**  
Maximum value of SAR (interpolated) = 11.724 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 107.3 V/m; Power Drift = -0.085 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.91 mW/g**  
Maximum value of SAR (interpolated) = 11.456 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 107.3 V/m; Power Drift = -0.14 dB  
Peak SAR (extrapolated) = 15.636 W/kg  
**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.68 mW/g**  
Maximum value of SAR (measured) = 11.452 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 11.325 mW/g



## Section 13.18 Table 33 Assessment at the Body with Audio BDN6732A/BDN6783A)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2011 6:01:15 PM, Date/Time: 8/9/2011 6:11:33 PM, Date/Time: 8/9/2011 6:14:24 PM,  
Date/Time: 8/9/2011 6:20:36 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110809-18  
Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8128A  
Cary Acc. / Cable Acc.: PMLN7008A/ BDN6783A with BDN6732A  
Start Power: 5.90 (W)

**Note:**

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

Reported SAR: 10.14 mW/g (1g); 7.25 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)

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

Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 104.5 V/m; Power Drift = -0.18 dB

Motorola Fast SAR: SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.62 mW/g

Maximum value of SAR (interpolated) = 11.023 mW/g

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

dy=7.5mm, dz=1mm

Reference Value = 104.5 V/m; Power Drift = -0.22 dB

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

Motorola Fast SAR: SAR(1 g) = 10.3 mW/g; SAR(10 g) = 7.47 mW/g

Maximum value of SAR (interpolated) = 10.904 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 104.5 V/m; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 14.354 W/kg

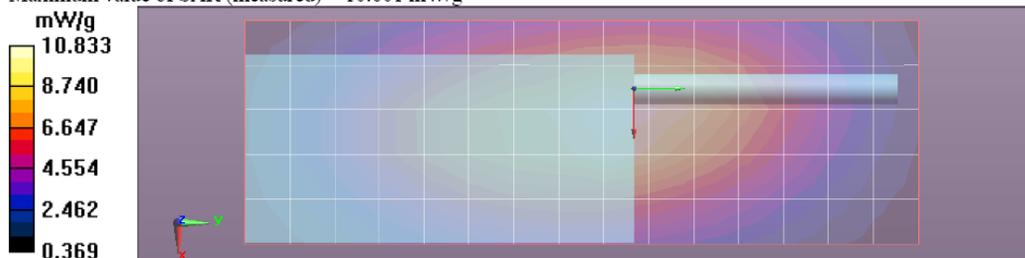
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.23 mW/g

Maximum value of SAR (measured) = 10.743 mW/g

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

dz=10mm

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



## Section 13.19 Table 34 Assessment at the Body with Audio BDN6780A/BDN6783A)

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2011 6:35:45 PM, Date/Time: 8/9/2011 6:46:03 PM, Date/Time: 8/9/2011 6:48:56 PM,  
Date/Time: 8/9/2011 6:55:06 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110809-19  
Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 438.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A/ BDN6783A with BDN6780A  
Start Power: 5.90 (W)

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

Reported SAR: 10.04 mW/g (1g); 7.11 mW/g (10g)

Comments: Full Scan

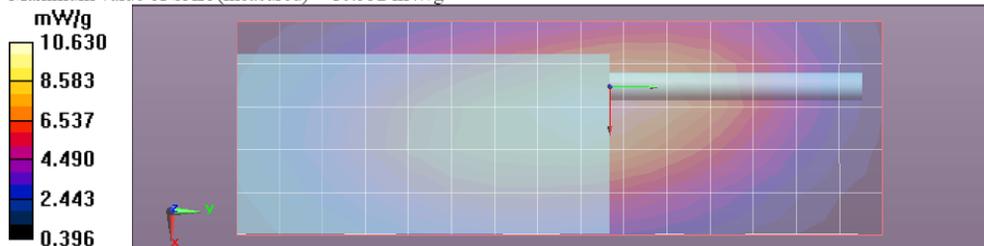
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(7.46, 7.46, 7.46)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used:  $f = 438$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 104.0 V/m; Power Drift = -0.11 dB  
**Motorola Fast SAR: SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.38 mW/g**  
Maximum value of SAR (interpolated) = 10.729 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 104.0 V/m; Power Drift = -0.15 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.29 mW/g**  
Maximum value of SAR (interpolated) = 10.642 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 104.0 V/m; Power Drift = -0.20 dB  
Peak SAR (extrapolated) = 14.500 W/kg  
**SAR(1 g) = 10 mW/g; SAR(10 g) = 7.09 mW/g**  
Maximum value of SAR (measured) = 10.636 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 10.532 mW/g



## Section 13.22 Table 38 Assessment at the Face with offered antennas

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2011 9:26:13 PM, Date/Time: 8/9/2011 9:36:46 PM, Date/Time: 8/9/2011 9:39:47 PM,  
Date/Time: 8/9/2011 9:46:03 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110809-23  
Phantom# / Tissue Temp.: OVAL1108 / 21.0 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 406.1250 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: NONE / NONE  
Start Power: 5.87 (W)

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

Reported SAR: 5.94 mW/g (1g); 4.45 mW/g (10g)

Comments: Full Scan; Front of radio facing phantom at 2.5 cm.

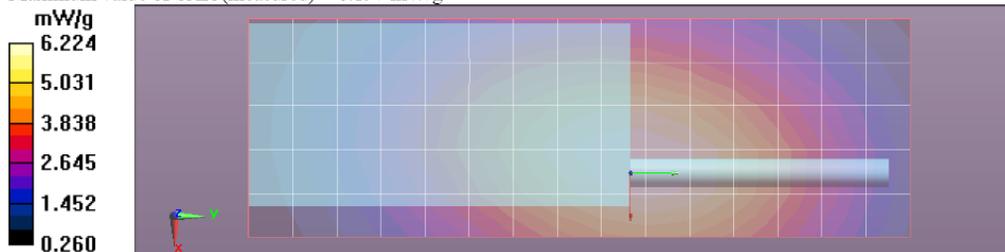
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x151x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 85.515 V/m; Power Drift = -0.044 dB  
Motorola Fast SAR: SAR(1 g) = 5.99 mW/g; SAR(10 g) = 4.48 mW/g  
Maximum value of SAR (interpolated) = 6.283 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 85.515 V/m; Power Drift = -0.076 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
Motorola Fast SAR: SAR(1 g) = 5.96 mW/g; SAR(10 g) = 4.45 mW/g  
Maximum value of SAR (interpolated) = 6.232 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 85.515 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 7.722 W/kg  
SAR(1 g) = 5.86 mW/g; SAR(10 g) = 4.4 mW/g  
Maximum value of SAR (measured) = 6.131 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) = 6.197 mW/g



## Section 13.22 Table 39 Assessment at the Face with offered antennas

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/9/2011 10:56:18 PM, Date/Time: 8/9/2011 11:08:42 PM, Date/Time: 8/9/2011 11:11:40 PM,  
Date/Time: 8/9/2011 11:17:58 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110809-24  
Phantom# / Tissue Temp.: OVAL1108 / 21.0 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: NONE / NONE  
Start Power: 5.88 (W)

**Note:**

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

Reported SAR: 6.64 mW/g (1g); 4.97 mW/g (10g)

Comments: Full Scan; Front of radio facing phantom at 2.5 cm.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)

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

Duty Cycle: 1:1, Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x181x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 86.329 V/m; Power Drift = 0.10 dB

**Motorola Fast SAR: SAR(1 g) = 6.53 mW/g; SAR(10 g) = 4.88 mW/g**

Maximum value of SAR (interpolated) = 6.843 mW/g

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

Reference Value = 86.329 V/m; Power Drift = 0.097 dB

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

**Motorola Fast SAR: SAR(1 g) = 6.58 mW/g; SAR(10 g) = 4.9 mW/g**

Maximum value of SAR (interpolated) = 6.911 mW/g

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

Reference Value = 86.329 V/m; Power Drift = 0.056 dB

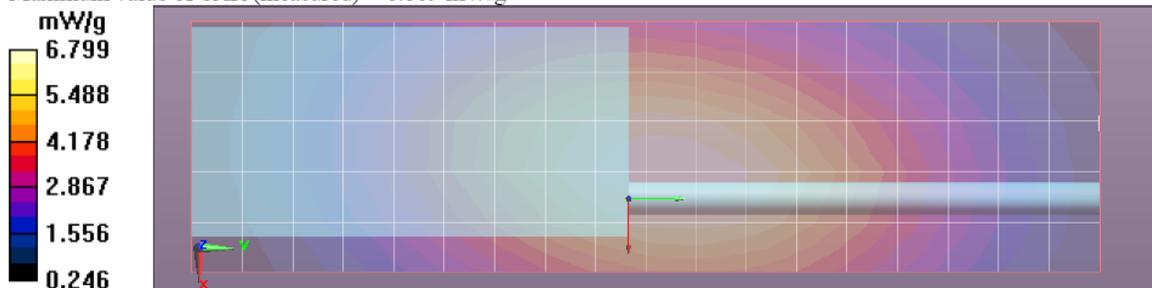
Peak SAR (extrapolated) = 8.621 W/kg

**SAR(1 g) = 6.55 mW/g; SAR(10 g) = 4.92 mW/g**

Maximum value of SAR (measured) = 6.879 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) = 6.869 mW/g



**Section 13.22 Table 40**  
**Assessment at the Face with offered antennas (with additional battery)**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/9/2011 11:38:33 PM, Date/Time: 8/9/2011 11:51:00 PM, Date/Time: 8/9/2011 11:53:57 PM,  
 Date/Time: 8/10/2011 12:00:11 AM

Robot# / Run#: DASY5-FL-2 / CM-Face-110809-25  
 Phantom# / Tissue Temp.: OVAL1108 / 21.0 (C)  
 DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
 Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)  
 Battery: NNTN8128A  
 Carry Acc. / Cable Acc.: NONE / NONE  
 Start Power: 5.89 (W)

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

Reported SAR: 4.37 mW/g (1g); 3.28 mW/g (10g)

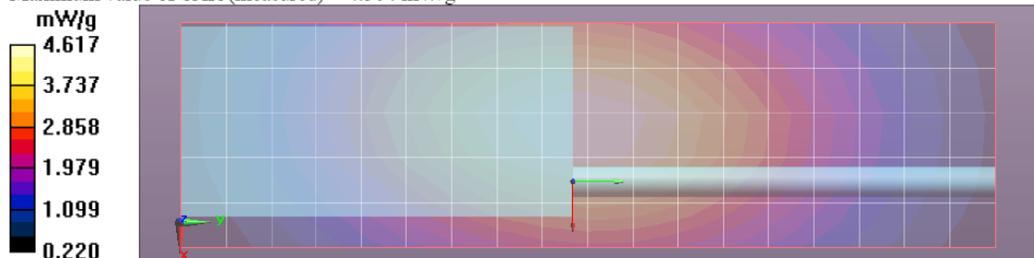
Comments: Full Scan; Front of radio facing phantom at 2.5 cm.  
 Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)  
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
 Duty Cycle: 1:1, Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.87$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x181x1):** Measurement grid: dx=15mm, dy=15mm  
 Reference Value = 68.462 V/m; Power Drift = -0.048 dB  
**Motorola Fast SAR: SAR(1 g) = 4.44 mW/g; SAR(10 g) = 3.32 mW/g**  
 Maximum value of SAR (interpolated) = 4.660 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
 Reference Value = 68.462 V/m; Power Drift = -0.092 dB  
 Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 4.37 mW/g; SAR(10 g) = 3.27 mW/g**  
 Maximum value of SAR (interpolated) = 4.570 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 68.462 V/m; Power Drift = -0.16 dB  
 Peak SAR (extrapolated) = 5.648 W/kg  
**SAR(1 g) = 4.31 mW/g; SAR(10 g) = 3.25 mW/g**  
 Maximum value of SAR (measured) = 4.525 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 4.504 mW/g



**APPENDIX G**  
**DUT Scans Outside Part 90 (380.0 – 406.1 MHz)**  
Data enclosed for this appendix is not applicable for FCC part 90

## Section 13.20 Table 35 Outside FCC Part 90 at the body

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/14/2011 6:18:34 PM, Date/Time: 11/14/2011 6:29:15 PM, Date/Time: 11/14/2011 6:32:13 PM,  
Date/Time: 11/14/2011 6:39:50 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-111411-14  
Phantom# / Tissue Temp.: OVAL1016 / 21.3 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3779) / 426TMM0284  
Antenna / TX Freq.: FAF5259A / 380.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A / RMN5058A  
Start Power: 5.66 (W)

**Note:**

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

Reported SAR: 3.76 mW/g (1g); 2.63 mW/g (10g)

Comments: Full Scan

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

Electronics: DAE4 Sn1231, Calibrated: 9/21/2011

Duty Cycle: 1:1, Medium parameters used:  $f = 380$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 57.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 54.381 V/m; Power Drift = 0.16 dB

Motorola Fast SAR: SAR(1 g) = 3.84 mW/g; SAR(10 g) = 2.76 mW/g

Maximum value of SAR (interpolated) = 4.119 mW/g

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

Reference Value = 54.381 V/m; Power Drift = 0.13 dB

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

Motorola Fast SAR: SAR(1 g) = 3.93 mW/g; SAR(10 g) = 2.78 mW/g

Maximum value of SAR (interpolated) = 4.196 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 = 54.381 V/m; Power Drift = -0.16 dB

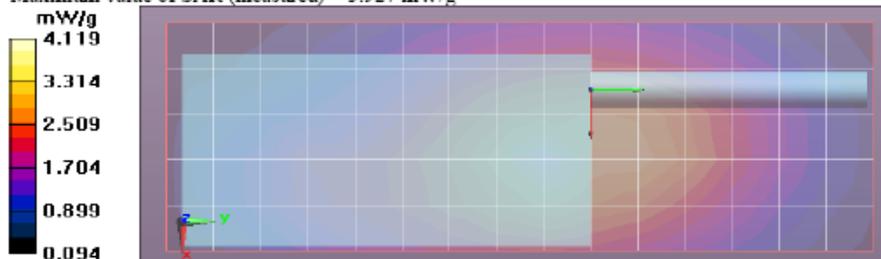
Peak SAR (extrapolated) = 5.719 W/kg

SAR(1 g) = 3.69 mW/g; SAR(10 g) = 2.6 mW/g

Maximum value of SAR (measured) = 3.860 mW/g

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

Maximum value of SAR (measured) = 3.927 mW/g



**Section 13.20 Table 36  
Outside FCC Part 90 at the body**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/14/2011 9:21:31 PM, Date/Time: 11/14/2011 9:34:48 PM, Date/Time: 11/14/2011 9:37:47 PM,  
Date/Time: 11/14/2011 9:45:25 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-111411-18  
Phantom# / Tissue Temp.: OVAL1016 / 21.2 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3779) / 426TMM0284  
Antenna / TX Freq.: PMAE4065A / 395.0000 (MHz)  
Battery: NNTN8128A  
Carry Acc. / Cable Acc.: PMLN7008A / RMN5058A  
Start Power: 5.72 (W)

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

Reported SAR: 2.52 mW/g (1g); 1.75 mW/g (10g)

Comments: Full Scan

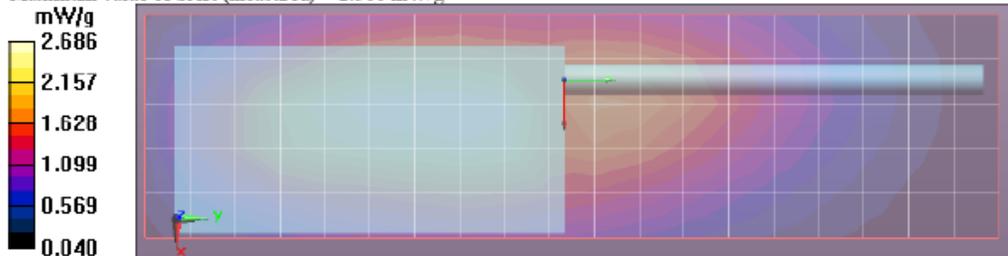
Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)  
Electronics: DAE4 Sn1231, Calibrated: 9/21/2011  
Duty Cycle: 1:1, Medium parameters used:  $f = 395$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 57.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 52.791 V/m; Power Drift = -0.32 dB  
Motorola Fast SAR: SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.92 mW/g  
Maximum value of SAR (interpolated) = 2.740 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 52.791 V/m; Power Drift = -0.39 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
Motorola Fast SAR: SAR(1 g) = 2.57 mW/g; SAR(10 g) = 1.85 mW/g  
Maximum value of SAR (interpolated) = 2.758 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 = 52.791 V/m; Power Drift = -0.59 dB  
Peak SAR (extrapolated) = 3.803 W/kg  
SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.74 mW/g  
Maximum value of SAR (measured) = 2.601 mW/g

**Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 2.566 mW/g



## Section 13.23 Table 41 Outside FCC Part 90 at the face

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/10/2011 8:09:38 PM, Date/Time: 8/10/2011 8:20:30 PM, Date/Time: 8/10/2011 8:23:31 PM,  
Date/Time: 8/10/2011 8:29:50 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110810-09  
Phantom# / Tissue Temp.: OVAL1108 / 21.5 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: FAF5259A / 393.0000 (MHz)  
Battery: NNTN8129A  
Cary Acc. / Cable Acc.: NONE / NONE  
Start Power: 5.85 (W)

**Note:**

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

Reported SAR: 3.69 mW/g (1g); 2.76 mW/g (10g)

Comments: Full Scan; Front of radio facing phantom at 2.5 cm.  
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used:  $f = 393$  MHz;  $\sigma = 0.84$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Reference Value = 66.478 V/m; Power Drift = 0.12 dB  
**Motorola Fast SAR: SAR(1 g) = 3.58 mW/g; SAR(10 g) = 2.68 mW/g**  
Maximum value of SAR (interpolated) = 3.757 mW/g

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

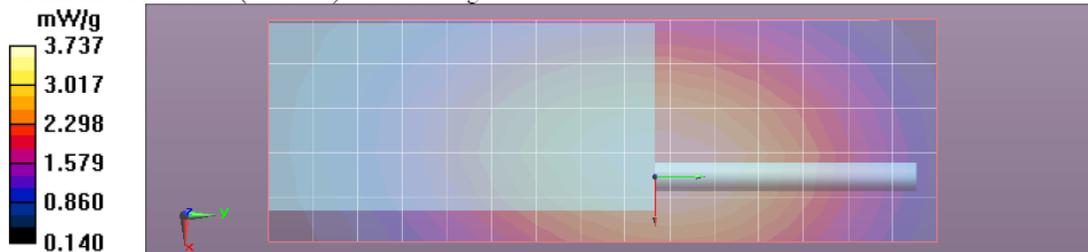
Reference Value = 66.478 V/m; Power Drift = 0.095 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 3.63 mW/g; SAR(10 g) = 2.71 mW/g**  
Maximum value of SAR (interpolated) = 3.791 mW/g

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

Reference Value = 66.478 V/m; Power Drift = 0.085 dB  
Peak SAR (extrapolated) = 4.727 W/kg  
**SAR(1 g) = 3.6 mW/g; SAR(10 g) = 2.72 mW/g**  
Maximum value of SAR (measured) = 3.771 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) = 3.798 mW/g



**Section 13.23 Table 42  
Outside FCC Part 90 at the face**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 8/10/2011 9:42:03 PM, Date/Time: 8/10/2011 9:55:31 PM, Date/Time: 8/10/2011 9:58:32 PM,  
Date/Time: 8/10/2011 10:04:49 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110810-11  
Phantom# / Tissue Temp.: OVAL1108 / 21.5 (C)  
DUT Model# / Serial#: H51QDH9PW7AN (MUE3775) / 426TMM0405  
Antenna / TX Freq.: PMAE4065A / 393.0000 (MHz)  
Battery: NNTN8129A  
Carry Acc. / Cable Acc.: NONE / NONE  
Start Power: 5.86 (W)

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

Reported SAR: 4.80 mW/g (1g); 3.58 mW/g (10g)

Comments: Full Scan; Front of radio facing phantom at 2.5 cm.

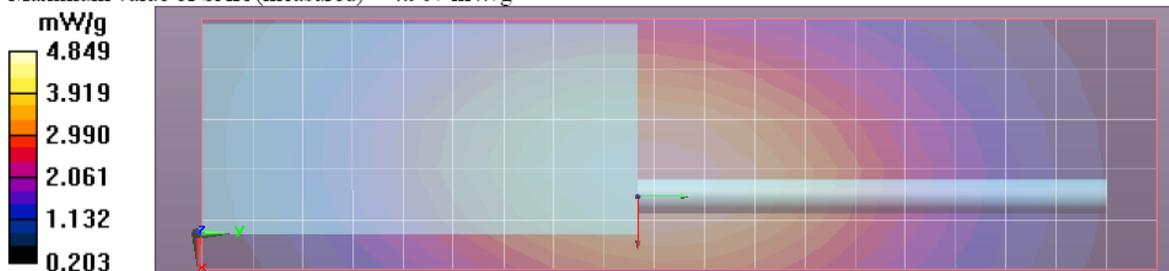
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.94, 6.94, 6.94)  
Electronics: DAE4 Sn850, Calibrated: 7/22/2011  
Duty Cycle: 1:1, Medium parameters used: f = 393 MHz;  $\sigma = 0.84$  mho/m;  $\epsilon_r = 45.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x191x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 74.726 V/m; Power Drift = 0.15 dB  
**Motorola Fast SAR: SAR(1 g) = 4.63 mW/g; SAR(10 g) = 3.46 mW/g**  
Maximum value of SAR (interpolated) = 4.850 mW/g

**Below 3 GHz-Rev.4e/Face Scan/2-Volume 2D Scan (41x41x1):** Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm  
Reference Value = 74.726 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = **Not Specified** W/kg  
**Motorola Fast SAR: SAR(1 g) = 4.68 mW/g; SAR(10 g) = 3.5 mW/g**  
Maximum value of SAR (interpolated) = 4.888 mW/g

**Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 74.726 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 6.147 W/kg  
**SAR(1 g) = 4.68 mW/g; SAR(10 g) = 3.52 mW/g**  
Maximum value of SAR (measured) = 4.911 mW/g

**Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 4.907 mW/g



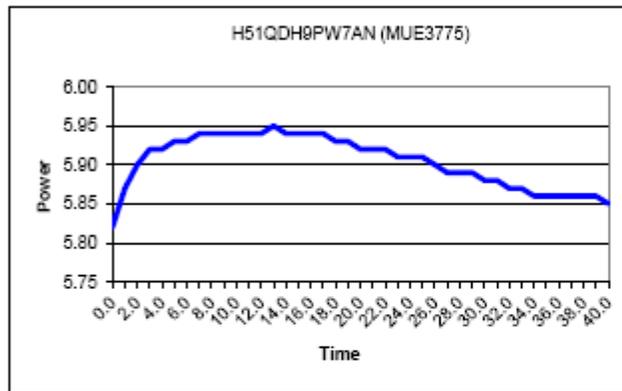
## APPENDIX H DUT Supplementary Data (Power slump)

Model # H51QDH9PW7AN (MUE3775)  
Serial # 426TMM0405

<b>Battery</b>	NNTN8128A	<b>Transmit Mode</b>	CW
<b>Frequency</b>	438.0000 MHz	<b>Audio Accessory</b>	RMN5058A
<b>Date</b>	11/14/2011		

TX TIME (Minutes)	Measured Power (Watts)
----------------------	---------------------------

0.0	5.82
1.0	5.87
2.0	5.90
3.0	5.92
4.0	5.92
5.0	5.93
6.0	5.93
7.0	5.94
8.0	5.94
9.0	5.94
10.0	5.94
11.0	5.94
12.0	5.94
13.0	5.95
14.0	5.94
15.0	5.94
16.0	5.94
17.0	5.94
18.0	5.93
19.0	5.93
20.0	5.92
21.0	5.92
22.0	5.92
23.0	5.91
24.0	5.91
25.0	5.91
26.0	5.90
27.0	5.89
28.0	5.89
29.0	5.89
30.0	5.88
31.0	5.88
32.0	5.87
33.0	5.87
34.0	5.86
35.0	5.86
36.0	5.86
37.0	5.86
38.0	5.86
39.0	5.86
40.0	5.85



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

**Photos available in Exhibit 7B**

**Appendix J**  
**DUT, Body worn and Audio Accessory Photos**

**Photos available in Exhibit 7B**