


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: 10/06/2011
Report Revision: O
Report ID: SR9748 APX4000 7/800 BT 2 of 2
Rev O 111006

Responsible Engineer: Michael Sailsman (Senior Staff Eng.)
Report Author: Michael Sailsman (Senior Staff Eng.)
Date/s Tested: 8/24/11-9/20/11
Manufacturer/Location: Penang
Sector/Group/Div.: G&PS
Date submitted for test: 7/26/11
DUT Description: 764-775 MHz and 794-805 MHz at 2.5 W, 806-824 MHz and 851-870 MHz at 3 W, 6.25kHz/12.5kHz/25kHz, Single Display full keypad Model. Capable of digital and analog FM as well as TDMA transmissions. This radio is Bluetooth equipped.
Test TX mode(s): CW (PTT); BT (CW)
Max. Power output: 2.99 W (764-805 MHz), 3.6 W (806-870 MHz); 0.010 W (Bluetooth)
Nominal Power: 2.50 W (764-805MHz), 3.0 W (806-870 MHz) CW; 0.010 W (Bluetooth)
Tx Frequency Bands: 764-775 MHz, 794-805 MHz, 806-824 MHz, 851-870 MHz; 2.402-2.480 GHz (Bluetooth)
Signaling type: FM; TDMA; FHSS(BT)
Model(s) Tested: H51UCH9PW7AN (MUF1554), H51UCH9PW7AN (MUF1555)
Model(s) Certified: H51UCH9PW7AN (MUF1554)
Serial Number(s): 426TMM0204, 426TMM0206, 426TMM0091, 426TMM0092
Classification: Occupational/Controlled
FCC ID: AZ489FT7049; Rule part 90 (764-869 MHz); Rule part 15 (2402-2480 MHz)
IC: 109U-89FT7049

* 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: 10/6/2011

Certification Date: 10/6/2011

Certification No.: L1110909P & L1110910P

Appendix D

Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificate for dipole D835V2 S/N 427 is 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. 9.50 +/-17.0% at k=2 for the D835V2 S/N 427).
- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 12.0% k=2 at 835 MHz and for the probe being used to assess this product).

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

- The System Validation was conducted per IEEE1528-2003 and IEC62209-2 Edition 1.0 2010-03 standards using the simulated head tissue and multiple probes that are available and applicable for the dipole under test to verify the System Validation. Results for this dipole are within the measurement system uncertainty of the reference SAR values indicated within IEC62209-2 Edition 1.0 2010-03 when using 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 dipole, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between this result and the result from the manufacture's dipole calibration certificate is -9.47% for the 835 MHz dipole which is 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: 8/24/2011 5:48:33 AM, Date/Time: 8/24/2011 5:53:15 AM, Date/Time: 8/24/2011 6:01:03 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-835B-110824-01
 Phantom# / Tissue Temp.: OVAL1020 / 21.3 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.20 mW/g (1g)
 Percent from Target (+/-): 1.0 % (1g)
 Rotation (1D): 0.025 dB

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

Reported SAR: 2.30 mW/g (1g); 1.51 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

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

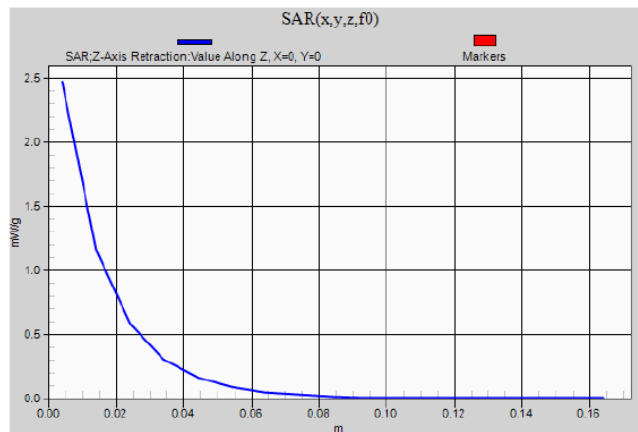
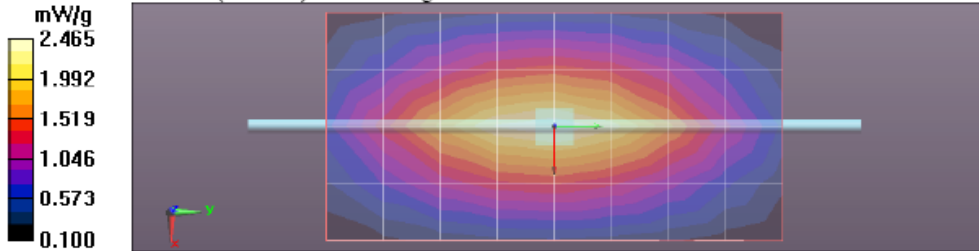
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.465 mW/g

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 = 50.594 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.435 W/kg
 SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.51 mW/g
 Maximum value of SAR (measured) = 2.492 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) = 2.475 mW/g



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Date/Time: 8/25/2011 5:40:47 AM, Date/Time: 8/25/2011 5:45:27 AM, Date/Time: 8/25/2011 5:53:16 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-835B-110825-01
 Phantom# / Tissue Temp.: OVAL1020 / 21.3 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.20 mW/g (1g)
 Percent from Target (+/-): 1.0 % (1g)
 Rotation (1D): 0.020 dB

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

Reported SAR: 2.30 mW/g (1g); 1.50 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: f = 835 MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

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

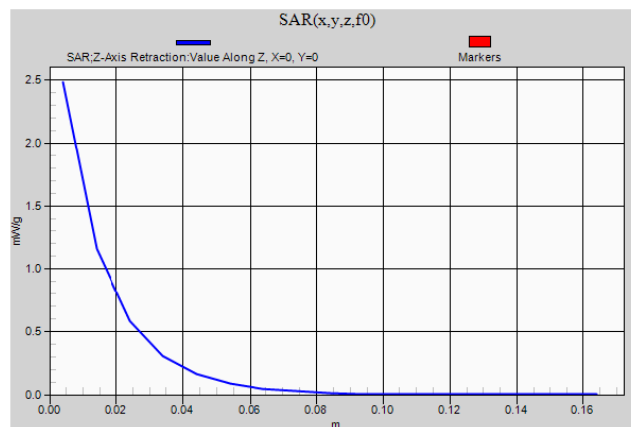
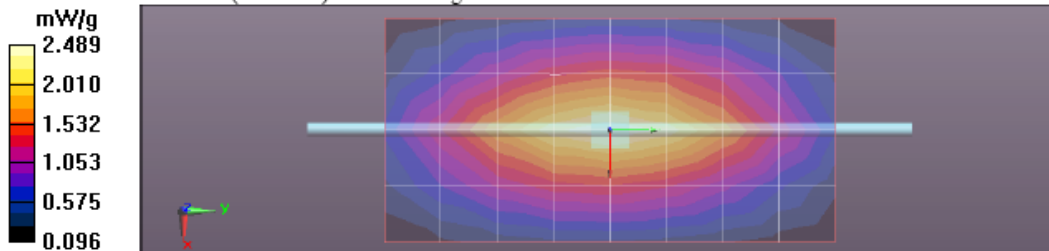
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.489 mW/g

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 = 50.668 V/m; Power Drift = 0.0075 dB
 Peak SAR (extrapolated) = 3.429 W/kg
 SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.5 mW/g
 Maximum value of SAR (measured) = 2.488 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) = 2.484 mW/g



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Date/Time: 8/26/2011 5:46:24 AM, Date/Time: 8/26/2011 5:50:51 AM, Date/Time: 8/26/2011 5:58:33 AM

Robot# / Run#: DASY5-FL-2 / ErC-SYSP-835H-110826-01
 Phantom# / Tissue Temp.: OVAL1011 / 21.3 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 8.60 mW/g (1g)
 Adjusted SAR (1W): 9.12 mW/g (1g)
 Percent from Target (+/-): 6.0 % (1g)
 Rotation (1D): 0.027 dB

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

Reported SAR: 2.28 mW/g (1g); 1.48 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

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

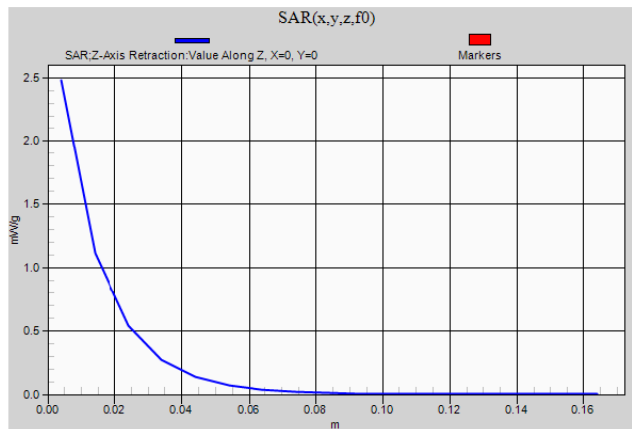
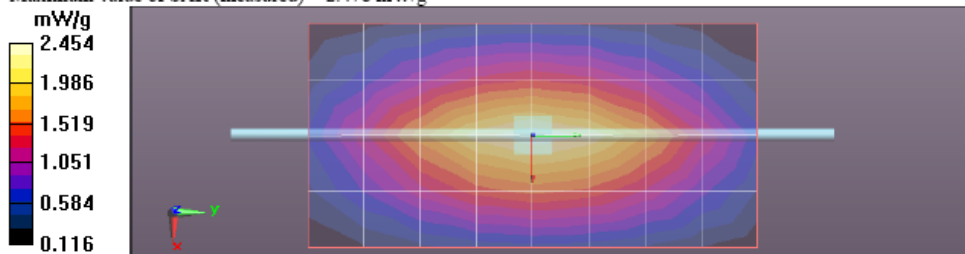
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.454 mW/g

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 = 52.468 V/m; Power Drift = -0.0023 dB
 Peak SAR (extrapolated) = 3.453 W/kg
 SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.48 mW/g
 Maximum value of SAR (measured) = 2.468 mW/g

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

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.478 mW/g



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Date/Time: 8/29/2011 7:04:23 AM, Date/Time: 8/29/2011 7:09:02 AM, Date/Time: 8/29/2011 7:16:49 AM

Robot# / Run#: DASY5-FL-2 / JsT-SYSP-835B-110829-01
 Phantom# / Tissue Temp.: OVAL1020 / 21.9 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.20 mW/g (1g)
 Percent from Target (+/-): 1.0 % (1g)
 Rotation (1D): 0.026 dB

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

Reported SAR: 2.30 mW/g (1g); 1.50 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 835 MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

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

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.471 mW/g

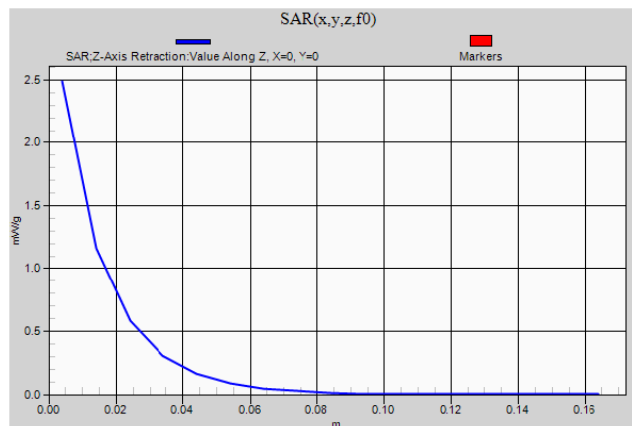
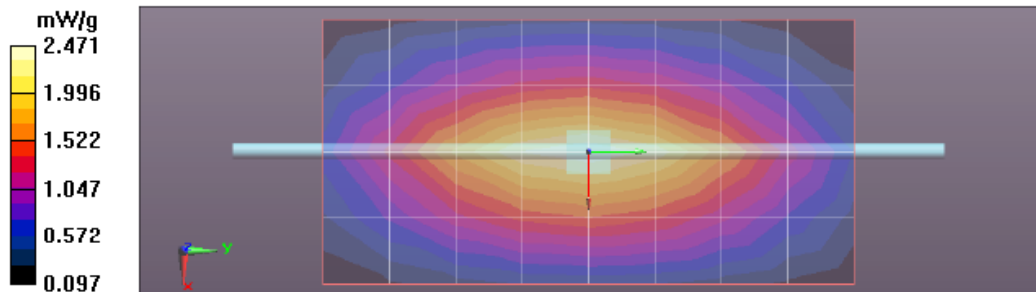
Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.679 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 3.424 W/kg
 SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.5 mW/g Maximum value of SAR (measured) = 2.477 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) = 2.489 mW/g



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Date/Time: 9/15/2011 7:12:30 AM, Date/Time: 9/15/2011 7:17:35 AM, Date/Time: 9/15/2011 7:26:40 AM

Robot# / Run#: DASY5-FL-1 / JsT-SYSP-835B-110915-01
 Phantom# / Tissue Temp.: OVAL1019 / 22.4 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.28 mW/g (1g)
 Percent from Target (+/-): 0.1 % (1g)
 Rotation (1D): 0.014 dB

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

Reported SAR: 2.32 mW/g (1g); 1.53 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

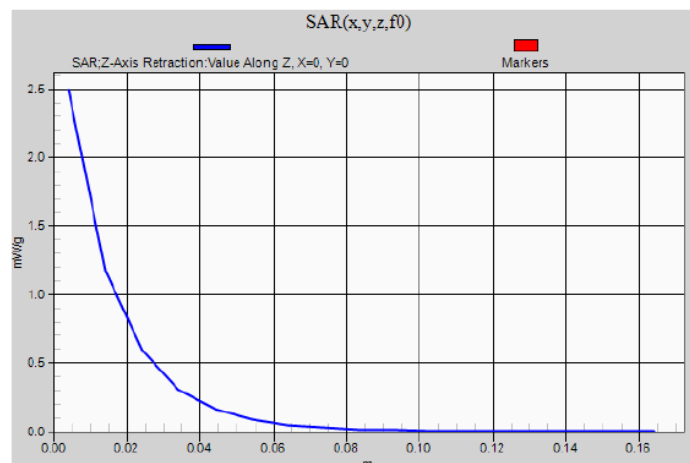
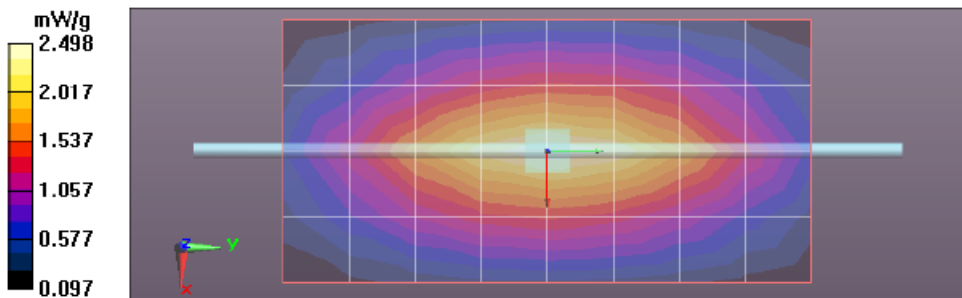
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.498 mW/g

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 = 50.852 V/m; Power Drift = -0.0033 dB
 Peak SAR (extrapolated) = 3.363 W/kg
 SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.52 mW/g
 Maximum value of SAR (measured) = 2.495 mW/g

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

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



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Date/Time: 9/19/2011 8:49:41 AM, Date/Time: 9/19/2011 8:54:46 AM, Date/Time: 9/19/2011 9:03:51 AM

Robot# / Run#: DASY5-FL-1 / JsT-SYSP-835B-110919-01
 Phantom# / Tissue Temp.: OVAL1019 / 22.1 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.32 mW/g (1g)
 Percent from Target (+/-): 0.3 % (1g)
 Rotation (1D): 0.014 dB

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

Reported SAR: 2.33 mW/g (1g); 1.53 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³

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

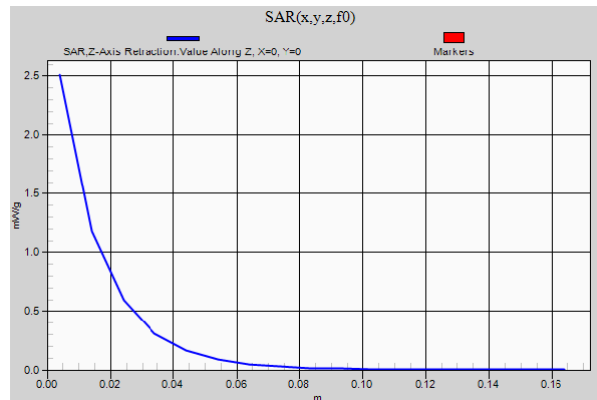
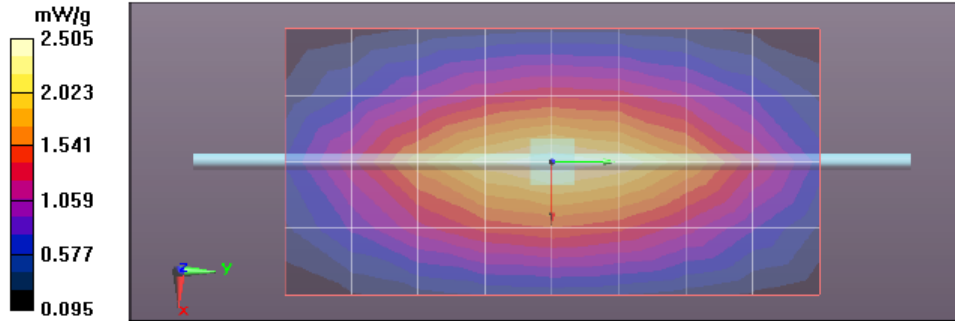
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.505 mW/g

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 = 51.115 V/m; Power Drift = -0.0094 dB
 Peak SAR (extrapolated) = 3.404 W/kg
 SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.53 mW/g
 Maximum value of SAR (measured) = 2.517 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) = 2.509 mW/g



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Date/Time: 9/20/2011 7:27:59 AM, Date/Time: 9/20/2011 7:32:56 AM, Date/Time: 9/20/2011 7:41:56 AM

Robot# / Run#: DASY5-FL-1 / JsT-SYSP-835B-110920-01
 Phantom# / Tissue Temp.: OVAL1019 / 22.1 (C)
 Dipole Model# / Serial#: D835V2 / 427
 TX Freq. / Start power: 835 (MHz) / 250 (mW)

Target SAR (1W): 9.29 mW/g (1g)
 Adjusted SAR (1W): 9.32 mW/g (1g)
 Percent from Target (+/-): 0.3 % (1g)
 Rotation (1D): 0.018 dB

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

Reported SAR: 2.33 mW/g (1g); 1.53 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³

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

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.513 mW/g

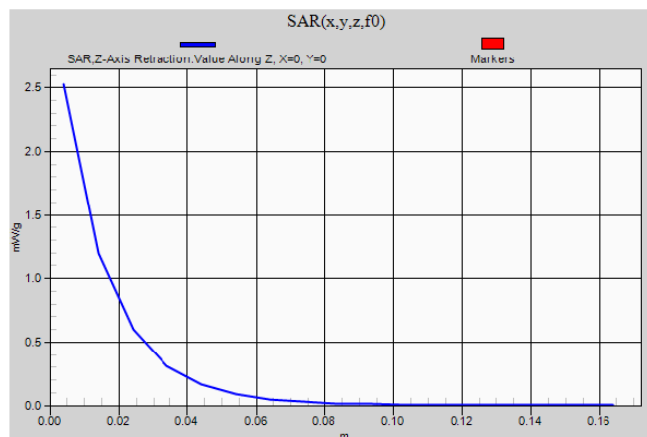
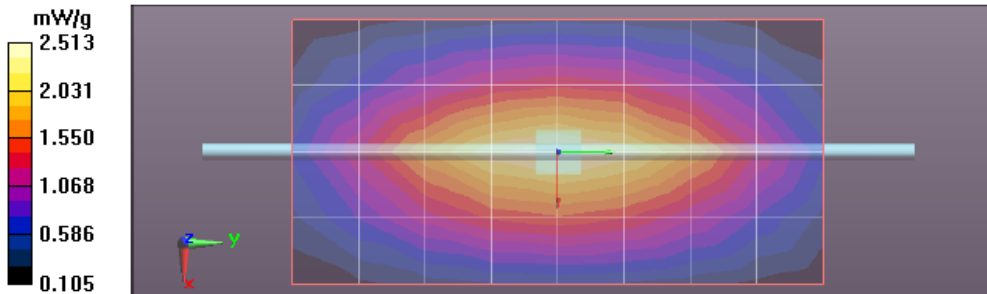
Below 3 GHz-Rev.3m/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 51.119 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 3.386 W/kg
 SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.53 mW/g
 Maximum value of SAR (measured) = 2.512 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) = 2.525 mW/g



DIPOLE SAR TARGET - HEAD

Date: 02/04/11 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 729 Ambient Temp.(°C): 21.6

Tissue Characteristics
 Permittivity: 40.7 Phantom Type/SN: OVAL1011
 Conductivity: 0.90 Distance (mm): 15
 Tissue Temp.(°C): _____

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 427

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

9.56

Difference from Target

-10.04% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **8.60**

Passes K=2

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

| Probe SN #s | 1g-SAR (Cube) | Diff from Ave | Robot |
|-----------------------|---------------|-------------------------------|-------|
| 3185 | 8.56 | -0.5% | R2 |
| 3147 | 8.68 | 0.9% | R2 |
| 3163 | 8.56 | -0.5% | R2 |
| Average 8.6000 | | New Measured SAR Value | |

(normalized to 1.0 W)

Test performed by: Ed Church Initial: E.C.

DIPOLE SAR TARGET - BODY

Date: 02/04/11 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 729 Ambient Temp.(°C): 21.6

Tissue Characteristics
 Permittivity: 54.0 Phantom Type/SN: OVAL1021
 Conductivity: 1.00 Distance (mm): 15
 Tissue Temp.(°C): 20.8

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 427

New Target:
 Average Measured SAR Value: 9.29 mW/g(1g avg.),

| Probe SN #s | 1g-SAR (Cube) | Diff from Ave | Robot |
|-------------|---------------|------------------------|-------|
| 3163 | 9.24 | -0.6% | R2 |
| 3147 | 9.28 | -0.1% | R2 |
| 3185 | 9.36 | 0.7% | R2 |
| Average | 9.2933 | New Measured SAR Value | |

(normalized to 1.0 W)

Test performed by: Ed Church Initial: EC

Appendix E
FCC Part 90 (764-869 MHz band)
DUT Scans (Shortened Scan and Highest SAR configurations)

Shortened Scan Result Table 50

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/20/2011 8:54:35 AM, Date/Time: 9/20/2011 9:05:58 AM, Date/Time: 9/20/2011 9:09:00 AM,
Date/Time: 9/20/2011 9:30:39 AM

Robot# / Run#: DASY5-FL-1 / JsT-Ab-110920-02
Phantom# / Tissue Temp.: OVAL1019 / 21.9 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1554) / 426TMM0204
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN7008A / None
Start Power: 3.61 (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: 8.09 mW/g (1g); 6.00 mW/g (10g)

Comments: Shortened Scan

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Reference Value = 82.830 V/m; Power Drift = -0.34 dB

Motorola Fast SAR: SAR(1 g) = 7.86 mW/g; SAR(10 g) = 5.52 mW/g

Maximum value of SAR (interpolated) = 8.341 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 = 82.830 V/m; Power Drift = -0.39 dB

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

Motorola Fast SAR: SAR(1 g) = 7.62 mW/g; SAR(10 g) = 5.32 mW/g

Maximum value of SAR (interpolated) = 8.042 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 = 96.335 V/m; Power Drift = -0.19 dB

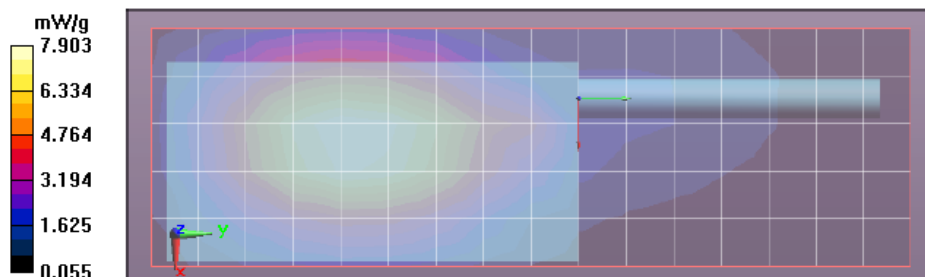
Peak SAR (extrapolated) = 10.067 W/kg

SAR(1 g) = 8.02 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 8.466 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) = 7.987 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 8 minutes.

Representative full scan run time was 25 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 4.23 mW/g; 10-g Avg. = 3.13 mW/g.

Zoom scan max calculated SAR using SAR drift (see part 1 table 39): 1-g Avg. = 4.83 mW/g; 10-g Avg. = 3.58 mW/g.

Table 39 Body - Highest SAR Configuration Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/19/2011 8:24:41 PM, Date/Time: 9/19/2011 8:36:05 PM, Date/Time: 9/19/2011 8:39:03 PM,
Date/Time: 9/19/2011 8:46:42 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-110919-15
Phantom# / Tissue Temp.: OVAL1019 / 22.2 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1554) / 426TMM0204
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN7008A / None
Start Power: 3.55 (W)

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

Reported SAR: 7.94 mW/g (1g); 5.89 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Reference Value = 82.342 V/m; Power Drift = -0.29 dB

Motorola Fast SAR: SAR(1 g) = 8.91 mW/g; SAR(10 g) = 6.24 mW/g

Maximum value of SAR (interpolated) = 9.473 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 = 82.342 V/m; Power Drift = -0.33 dB

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

Motorola Fast SAR: SAR(1 g) = 8.77 mW/g; SAR(10 g) = 6.12 mW/g

Maximum value of SAR (interpolated) = 9.258 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 = 82.342 V/m; Power Drift = -0.79 dB

Peak SAR (extrapolated) = 9.877 W/kg

SAR(1 g) = 7.88 mW/g; SAR(10 g) = 5.86 mW/g

Maximum value of SAR (measured) = 8.308 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) = 8.159 mW/g

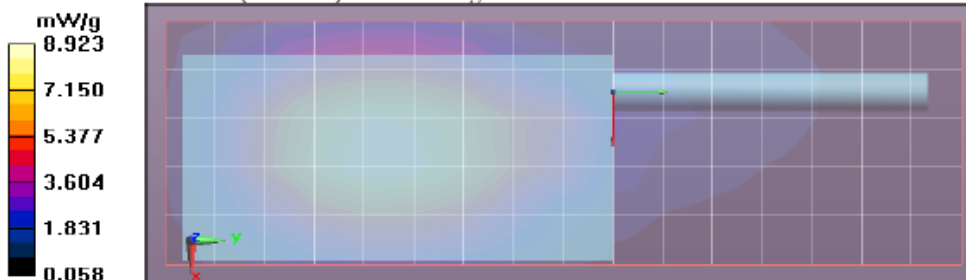


Table 48 Face - Highest SAR Configuration Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 7:25:02 PM, Date/Time: 8/29/2011 7:34:42 PM, Date/Time: 8/29/2011 7:37:28 PM,
Date/Time: 8/29/2011 7:43:34 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110829-14
Phantom# / Tissue Temp.: OVAL1011 / 21.8 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0091
Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
Battery: NNTN8128A
Cary Acc. / Cable Acc.: None / None
Start Power: 3.59 (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: 5.59 mW/g (1g); 4.07 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)

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

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

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

Reference Value = 68.731 V/m; Power Drift = -0.034 dB

Motorola Fast SAR: SAR(1 g) = 5.59 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.897 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 = 68.731 V/m; Power Drift = -0.088 dB

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

Motorola Fast SAR: SAR(1 g) = 5.6 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.896 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 = 68.731 V/m; Power Drift = -0.17 dB

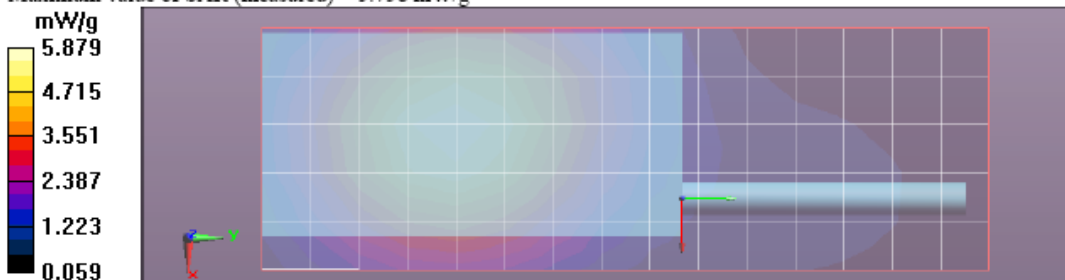
Peak SAR (extrapolated) = 7.302 W/kg

SAR(1 g) = 5.52 mW/g; SAR(10 g) = 4.03 mW/g

Maximum value of SAR (measured) = 5.820 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) = 5.758 mW/g



Appendix F
DUT Scans - FCC Part 90 (764-869 MHz band)

Table 13
(764-775MHz band)
Assessments at the Body with Body worn PMLN4651A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 6:59:46 PM, Date/Time: 8/26/2011 7:10:34 PM, Date/Time: 8/26/2011 7:13:25 PM,
 Date/Time: 8/26/2011 7:19:34 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110826-16
 Phantom# / Tissue Temp.: OVAL1020 / 21.0 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
 Start Power: 3.13 (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: 4.56 mW/g (1g); 3.38 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 764 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 59.495 V/m; Power Drift = -0.13 dB
 Motorola Fast SAR: SAR(1 g) = 4.6 mW/g; SAR(10 g) = 3.26 mW/g
 Maximum value of SAR (interpolated) = 4.882 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 = 59.495 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
 Motorola Fast SAR: SAR(1 g) = 4.51 mW/g; SAR(10 g) = 3.19 mW/g
 Maximum value of SAR (interpolated) = 4.745 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 = 59.495 V/m; Power Drift = -0.24 dB
 Peak SAR (extrapolated) = 5.560 W/kg
 SAR(1 g) = 4.44 mW/g; SAR(10 g) = 3.33 mW/g
 Maximum value of SAR (measured) = 4.664 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) = 4.650 mW/g

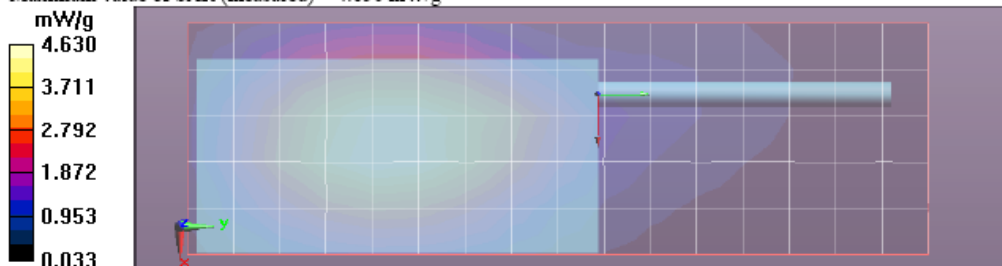


Table 14
(764-775MHz band)
Assessments at the Body with Body worn PMLN4651A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 8:10:14 PM, Date/Time: 8/26/2011 8:21:00 PM, Date/Time: 8/26/2011 8:23:50 PM,
 Date/Time: 8/26/2011 8:29:58 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110826-18
 Phantom# / Tissue Temp.: OVAL1020 / 21.1 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
 Start Power: 3.12 (W)

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

Reported SAR: 3.87 mW/g (1g); 2.83 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: f = 764 MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 52.561 V/m; Power Drift = -0.09 dB
Motorola Fast SAR: SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.73 mW/g
 Maximum value of SAR (interpolated) = 4.093 mW/g

Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm
 Reference Value = 52.561 V/m; Power Drift = -0.10 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 3.81 mW/g; SAR(10 g) = 2.7 mW/g
 Maximum value of SAR (interpolated) = 4.017 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 = 52.561 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 4.825 W/kg
SAR(1 g) = 3.77 mW/g; SAR(10 g) = 2.79 mW/g
 Maximum value of SAR (measured) = 3.983 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) = 3.929 mW/g

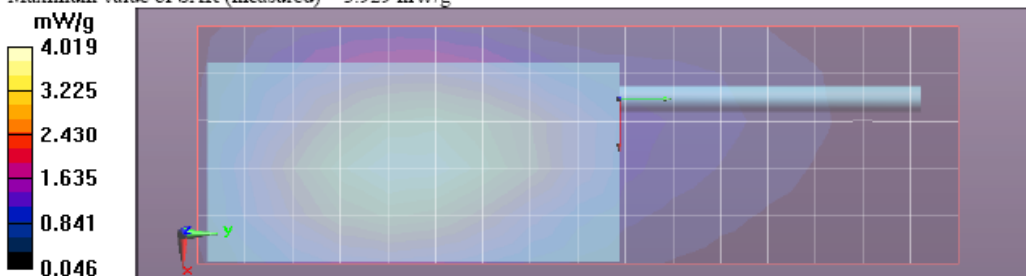


Table 15
(764-775MHz band)
Assessments at the Body with Body worn PMLN7008A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/15/2011 3:10:05 PM, Date/Time: 9/15/2011 3:21:50 PM, Date/Time: 9/15/2011 3:24:54 PM,
 Date/Time: 9/15/2011 3:32:38 PM

Robot# / Run#: DASY5-FL-1 / HvH-Ab-110915-05
 Phantom# / Tissue Temp.: OVAL1019 / 22.0 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1554) / 426TMM0206
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
 Start Power: 2.99 (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: 4.89 mW/g (1g); 3.58 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.13, 6.13, 6.13)
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 764$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 56.4$; $\rho = 1000$ kg/m³

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

Reference Value = 62.559 V/m; Power Drift = -0.22 dB
Motorola Fast SAR: SAR(1 g) = 4.88 mW/g; SAR(10 g) = 3.45 mW/g
 Maximum value of SAR (interpolated) = 5.163 mW/g

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

Reference Value = 62.559 V/m; Power Drift = -0.25 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 4.76 mW/g; SAR(10 g) = 3.36 mW/g
 Maximum value of SAR (interpolated) = 5.019 mW/g

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

Reference Value = 62.559 V/m; Power Drift = -0.42 dB
 Peak SAR (extrapolated) = 5.958 W/kg
SAR(1 g) = 4.72 mW/g; SAR(10 g) = 3.5 mW/g
 Maximum value of SAR (measured) = 4.972 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) = 4.913 mW/g

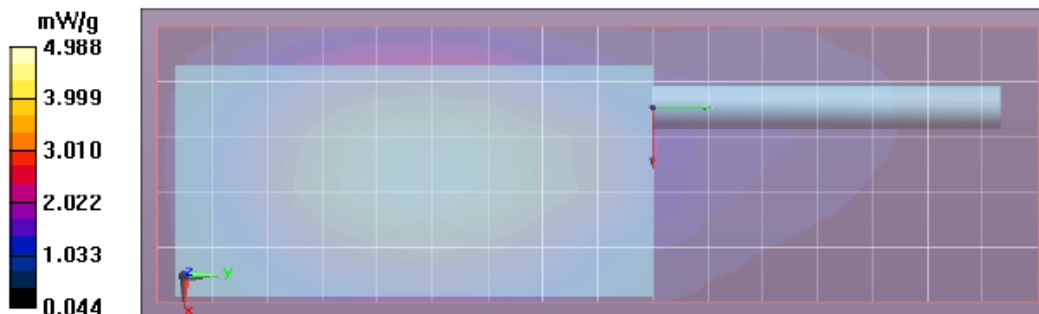


Table 16
(764-775MHz band)
Assessments at the Body with Body worn PMLN7008A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 11:17:05 PM, Date/Time: 8/26/2011 11:27:49 PM, Date/Time: 8/26/2011 11:30:39 PM,
 Date/Time: 8/26/2011 11:36:49 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110826-21
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
 Start Power: 3.12 (W)

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

Reported SAR: 3.67 mW/g (1g); 2.68 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 764 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 53.184 V/m; Power Drift = -0.089 dB
Motorola Fast SAR: SAR(1 g) = 3.62 mW/g; SAR(10 g) = 2.56 mW/g
 Maximum value of SAR (interpolated) = 3.829 mW/g

Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm
 Reference Value = 53.184 V/m; Power Drift = -0.10 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 3.58 mW/g; SAR(10 g) = 2.54 mW/g
 Maximum value of SAR (interpolated) = 3.773 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 = 53.184 V/m; Power Drift = -0.063 dB
 Peak SAR (extrapolated) = 4.560 W/kg
SAR(1 g) = 3.57 mW/g; SAR(10 g) = 2.64 mW/g
 Maximum value of SAR (measured) = 3.764 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) = 3.772 mW/g

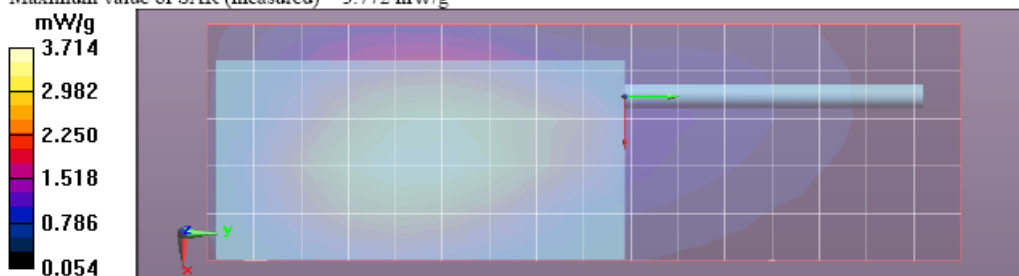


Table 17
(764-775MHz band)
Assessments at the body with Body worn PMLN5950A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 8:08:12 AM, Date/Time: 8/29/2011 8:18:24 AM, Date/Time: 8/29/2011 8:21:16 AM,
Date/Time: 8/29/2011 8:27:26 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110829-02
Phantom# / Tissue Temp.: OVAL1020 / 21.7 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
Start Power: 3.04 (W)

Note:

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

Reported SAR: 1.22 mW/g (1g); 0.921 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)

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

Duty Cycle: 1:1, Medium parameters used: $f = 764$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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

Reference Value = 34.102 V/m; Power Drift = -0.02 dB

Motorola Fast SAR: SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.867 mW/g

Maximum value of SAR (interpolated) = 1.270 mW/g

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

dy=7.5mm, dz=1mm

Reference Value = 34.102 V/m; Power Drift = -0.27 dB

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

Motorola Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.865 mW/g

Maximum value of SAR (interpolated) = 1.280 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 34.102 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.480 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.907 mW/g

Maximum value of SAR (measured) = 1.252 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) = 1.239 mW/g

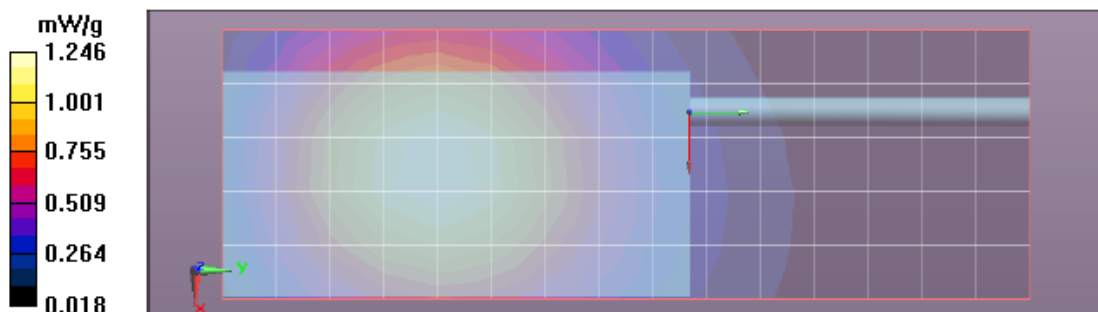


Table 18
(764-775MHz band)
A Assessment at the Body with Body worn PMLN5950A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 9:52:19 AM, Date/Time: 8/29/2011 10:02:27 AM, Date/Time: 8/29/2011 10:05:19 AM,
 Date/Time: 8/29/2011 10:11:30 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110829-04
 Phantom# / Tissue Temp.: OVAL1020 / 21.5 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
 Start Power: 3.01 (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: 1.09 mW/g (1g); 0.821 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: $f = 764 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

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

Reference Value = 32.776 V/m; Power Drift = 0.097 dB
 Motorola Fast SAR: SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.762 mW/g
 Maximum value of SAR (interpolated) = 1.117 mW/g

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

Reference Value = 32.776 V/m; Power Drift = 0.031 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
 Motorola Fast SAR: SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.767 mW/g
 Maximum value of SAR (interpolated) = 1.114 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 = 32.776 V/m; Power Drift = 0.021 dB
 Peak SAR (extrapolated) = 1.307 W/kg
 SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.808 mW/g
 Maximum value of SAR (measured) = 1.108 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) = 1.107 mW/g

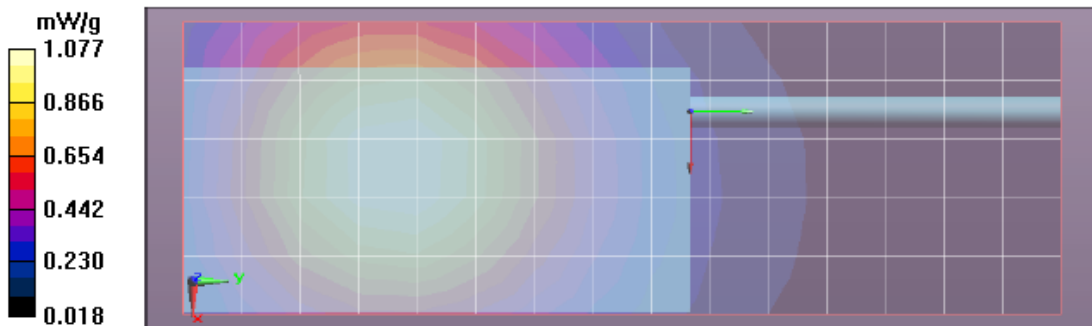


Table 19
(764-775MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 10:41:45 AM, Date/Time: 8/29/2011 10:51:56 AM, Date/Time: 8/29/2011 10:54:49 AM,
 Date/Time: 8/29/2011 11:00:58 AM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110829-05
 Phantom# / Tissue Temp.: OVAL1020 / 21.5 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN5950A/NTN5243A (w/out Belt Loop) / HMN4104B
 Start Power: 3.02 (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: 3.35 mW/g (1g); 2.47 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: f = 764 MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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

Reference Value = 52.452 V/m; Power Drift = -0.062 dB
 Motorola Fast SAR: SAR(1 g) = 3.26 mW/g; SAR(10 g) = 2.33 mW/g
 Maximum value of SAR (interpolated) = 3.444 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 = 52.452 V/m; Power Drift = -0.26 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
 Motorola Fast SAR: SAR(1 g) = 3.19 mW/g; SAR(10 g) = 2.25 mW/g
 Maximum value of SAR (interpolated) = 3.379 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 = 52.452 V/m; Power Drift = -0.25 dB
 Peak SAR (extrapolated) = 4.097 W/kg
 SAR(1 g) = 3.26 mW/g; SAR(10 g) = 2.43 mW/g
 Maximum value of SAR (measured) = 3.465 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) = 3.380 mW/g

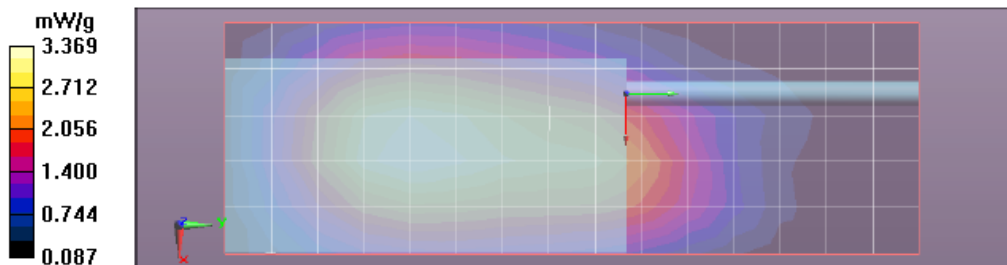


Table 20
(764-775MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 12:14:42 PM, Date/Time: 8/29/2011 12:24:52 PM, Date/Time: 8/29/2011 12:27:45 PM,
Date/Time: 8/29/2011 12:33:55 PM

Robot# / Run#: DASY5-FL-2 / JsT-Ab-110829-07
Phantom# / Tissue Temp.: OVAL1020 / 21.3 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: PMLN5950A/NTN5243A (w/out Belt Loop) / HMN4104B
Start Power: 3.01 (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: 2.68 mW/g (1g); 2.00 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.47, 6.47, 6.47)

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

Duty Cycle: 1:1, Medium parameters used: $f = 764$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

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

Reference Value = 47.148 V/m; Power Drift = -0.07 dB

Motorola Fast SAR: SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.9 mW/g

Maximum value of SAR (interpolated) = 2.818 mW/g

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

dy=7.5mm, dz=1mm

Reference Value = 47.148 V/m; Power Drift = -0.08 dB

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

Motorola Fast SAR: SAR(1 g) = 2.64 mW/g; SAR(10 g) = 1.88 mW/g

Maximum value of SAR (interpolated) = 2.773 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 47.148 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.296 W/kg

SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.97 mW/g

Maximum value of SAR (measured) = 2.750 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) = 2.717 mW/g

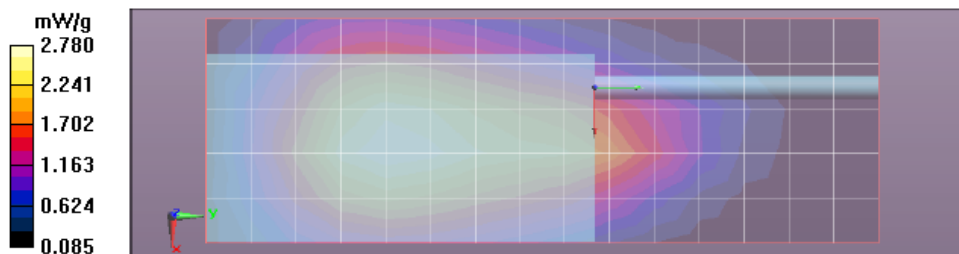


Table 22
(794-824MHz band)
Assessment at the Body with Body worn PMLN4651A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 7:58:35 AM, Date/Time: 8/26/2011 8:12:13 AM, Date/Time: 8/26/2011 8:18:25 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110826-02
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
 Start Power: 3.70 (W)

Note:

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

Reported SAR: 5.30 mW/g (1g); 3.91 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 5.807 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 = 59.076 V/m; Power Drift = -0.43 dB

Peak SAR (extrapolated) = 6.749 W/kg

SAR(1 g) = 5.27 mW/g; SAR(10 g) = 3.9 mW/g

Maximum value of SAR (measured) = 5.538 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) = 5.561 mW/g

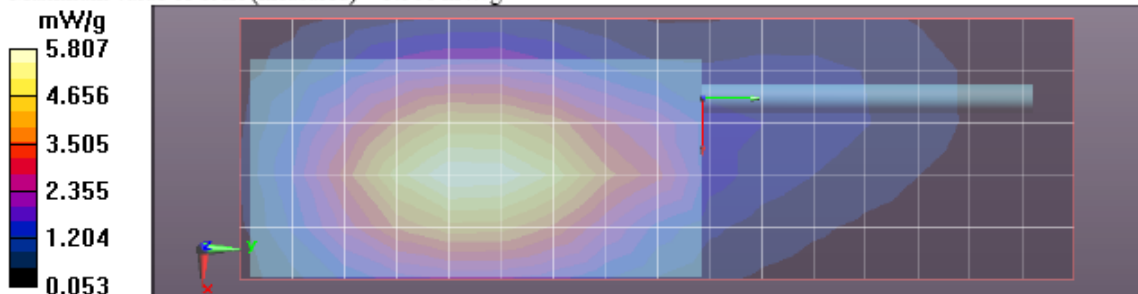


Table 23
(794-824MHz band)
Assessment at the Body with Body worn PMLN4651A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 11:20:08 AM, Date/Time: 8/26/2011 11:33:43 AM, Date/Time: 8/26/2011 11:39:52 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110826-05
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
 Start Power: 3.69 (W)

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

Reported SAR: 5.05 mW/g (1g); 3.68 mW/g (10g)

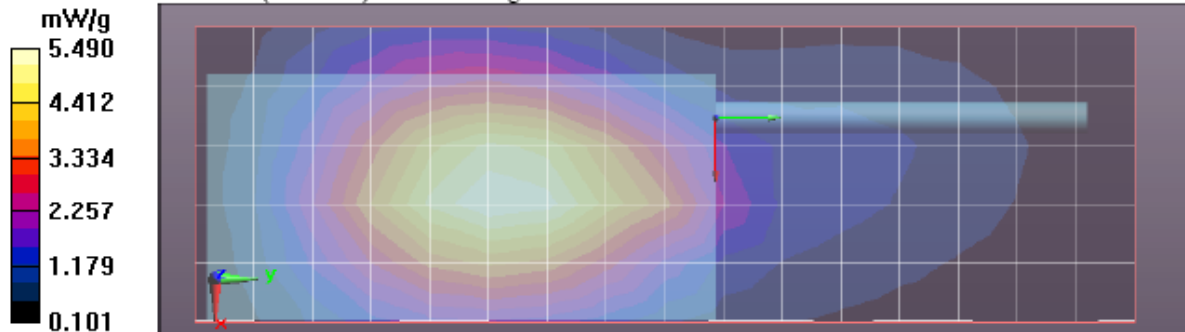
Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 5.490 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 = 66.538 V/m; Power Drift = -0.78 dB
 Peak SAR (extrapolated) = 6.588 W/kg
 SAR(1 g) = 5.03 mW/g; SAR(10 g) = 3.67 mW/g
 Maximum value of SAR (measured) = 5.329 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) = 5.264 mW/g



**Table 24
(794-824MHz band)
Assessment at the Body with Body worn PMLN7008A**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/15/2011 6:02:22 PM, Date/Time: 9/15/2011 6:08:40 PM, Date/Time: 9/15/2011 6:16:24 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-110915-08
 Phantom# / Tissue Temp.: OVAL1019 / 21.3 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1554) / 426TMM0206
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
 Start Power: 3.59 (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: 6.70 mW/g (1g); 4.92 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
 Electronics: DAE3 Sn363, Calibrated: 4/13/2011
 Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 71.407 V/m; Power Drift = -0.20 dB
Motorola Fast SAR: SAR(1 g) = 6.76 mW/g; SAR(10 g) = 4.74 mW/g
 Maximum value of SAR (interpolated) = 7.128 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 = 71.407 V/m; Power Drift = -0.45 dB
 Peak SAR (extrapolated) = 8.287 W/kg
SAR(1 g) = 6.58 mW/g; SAR(10 g) = 4.86 mW/g
 Maximum value of SAR (measured) = 6.959 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) = 6.747 mW/g

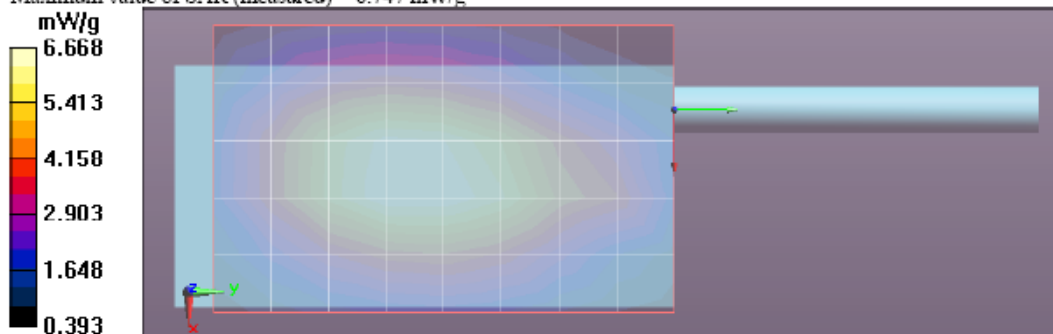


Table 25
(794-824MHz band)
Assessment at the Body with Body worn PMLN7008A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 1:59:29 PM, Date/Time: 8/26/2011 2:13:11 PM, Date/Time: 8/26/2011 2:19:22 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110826-08
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
 Start Power: 3.70 (W)

Note:

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

Reported SAR: 5.24 mW/g (1g); 3.78 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 5.339 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 = 67.753 V/m; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 6.850 W/kg

SAR(1 g) = 5.21 mW/g; SAR(10 g) = 3.77 mW/g

Maximum value of SAR (measured) = 5.526 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) = 5.368 mW/g

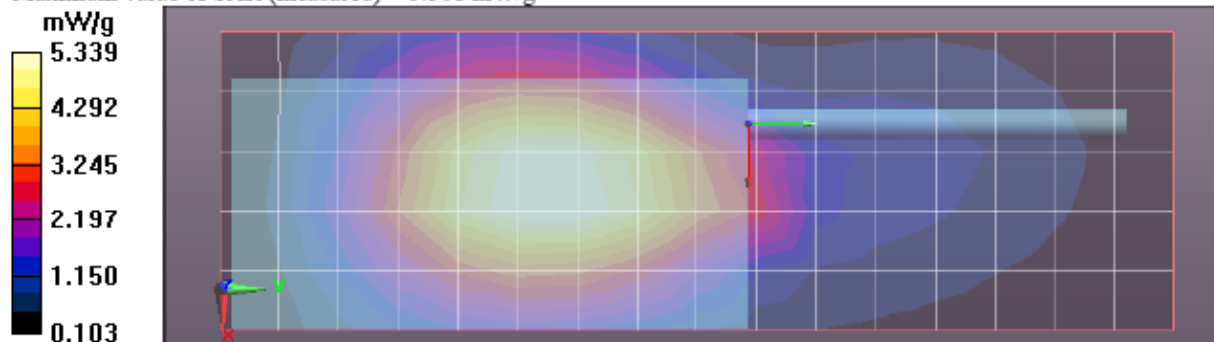


Table 26
(794-824MHz band)
Assessment at the Body with Body worn PMLN5950A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 2:35:51 PM, Date/Time: 8/26/2011 2:49:28 PM, Date/Time: 8/26/2011 2:55:39 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110826-09
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
 Start Power: 3.70 (W)

Note:

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

Reported SAR: 2.22 mW/g (1g); 1.66 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.252 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 = 43.102 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 2.826 W/kg

SAR(1 g) = 2.21 mW/g; SAR(10 g) = 1.66 mW/g

Maximum value of SAR (measured) = 2.325 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) = 2.264 mW/g

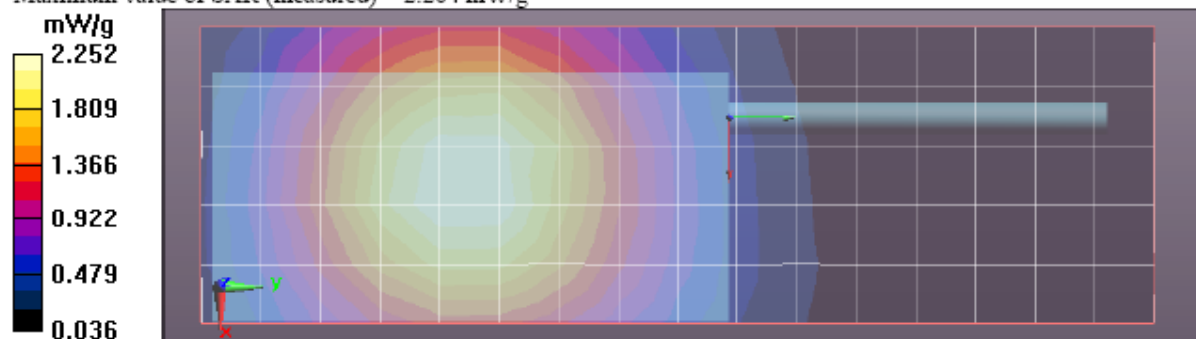


Table 27
(794-824MHz band)
Assessment at the Body with Body worn PMLN5950A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 3:41:23 PM, Date/Time: 8/26/2011 3:55:00 PM, Date/Time: 8/26/2011 4:01:10 PM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110826-11
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
 Start Power: 3.70 (W)

Note:

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

Reported SAR: 1.93 mW/g (1g); 1.43 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.997 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 = 43.408 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 2.476 W/kg

SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.43 mW/g

Maximum value of SAR (measured) = 2.021 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) = 1.985 mW/g

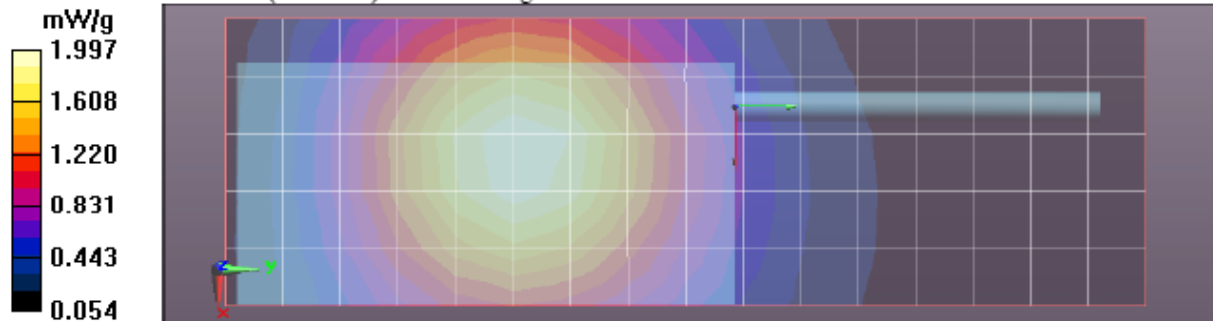


Table 28
(794-824MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 4:28:07 PM, Date/Time: 8/26/2011 4:38:51 PM, Date/Time: 8/26/2011 4:41:41 PM,
Date/Time: 8/26/2011 4:47:49 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110826-12
Phantom# / Tissue Temp.: OVAL1020 / 21.1 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN5950A with NTN5243A / HMN4104B
Start Power: 3.71 (W)

Note:

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

Reported SAR: 5.76 mW/g (1g); 4.22 mW/g (10g)

Comments: Full Scan. Back against phantom, tested without loop

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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

Reference Value = 61.438 V/m; Power Drift = -0.26 dB

Motorola Fast SAR: SAR(1 g) = 5.78 mW/g; SAR(10 g) = 4.04 mW/g

Maximum value of SAR (interpolated) = 6.183 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 = 61.438 V/m; Power Drift = -0.32 dB

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

Motorola Fast SAR: SAR(1 g) = 5.64 mW/g; SAR(10 g) = 3.97 mW/g

Maximum value of SAR (interpolated) = 5.947 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 = 61.438 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 7.462 W/kg

SAR(1 g) = 5.73 mW/g; SAR(10 g) = 4.21 mW/g

Maximum value of SAR (measured) = 6.034 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) = 6.027 mW/g

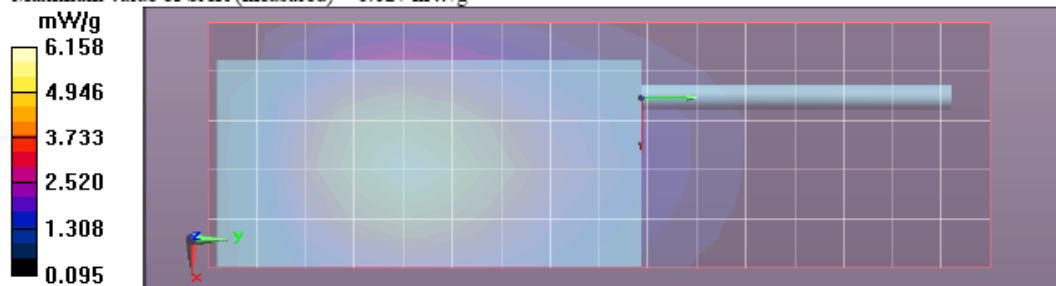


Table 29
(794-824MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/26/2011 5:46:52 PM, Date/Time: 8/26/2011 5:57:35 PM, Date/Time: 8/26/2011 6:00:28 PM,
Date/Time: 8/26/2011 6:06:38 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110826-14
Phantom# / Tissue Temp.: OVAL1020 / 21.1 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: PMLN5950A with NTN5243A / HMN4104B
Start Power: 3.68 (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: 3.86 mW/g (1g); 2.84 mW/g (10g)

Comments: Full Scan. Back against phantom, tested without loop

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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

Reference Value = 54.168 V/m; Power Drift = -0.49 dB

Motorola Fast SAR: SAR(1 g) = 3.94 mW/g; SAR(10 g) = 2.8 mW/g

Maximum value of SAR (interpolated) = 4.175 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 = 54.168 V/m; Power Drift = -0.16 dB

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

Motorola Fast SAR: SAR(1 g) = 3.74 mW/g; SAR(10 g) = 2.66 mW/g

Maximum value of SAR (interpolated) = 3.968 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 = 54.168 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.991 W/kg

SAR(1 g) = 3.84 mW/g; SAR(10 g) = 2.83 mW/g

Maximum value of SAR (measured) = 4.065 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) = 3.921 mW/g

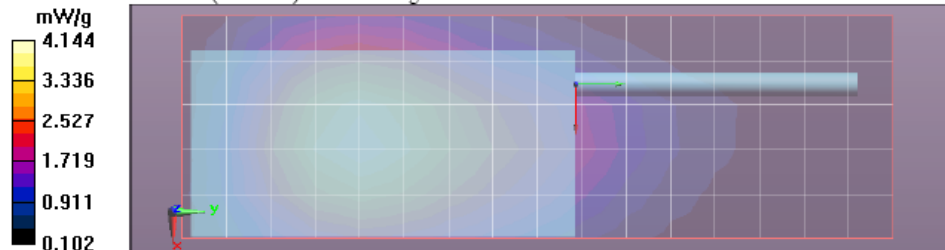


Table 31
(851-869MHz band)
Assessment at the Body with Body worn PMLN4651A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/24/2011 7:31:49 PM, Date/Time: 8/24/2011 7:42:38 PM, Date/Time: 8/24/2011 7:45:29 PM,
 Date/Time: 8/24/2011 7:51:40 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110824-09
 Phantom# / Tissue Temp.: OVAL1020 / 21.5 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
 Start Power: 3.58 (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: 5.20 mW/g (1g); 3.85 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: f = 851 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 66.468 V/m; Power Drift = -0.18 dB
Motorola Fast SAR: SAR(1 g) = 5.45 mW/g; SAR(10 g) = 3.84 mW/g
 Maximum value of SAR (interpolated) = 5.785 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 = 66.468 V/m; Power Drift = -0.27 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 5.37 mW/g; SAR(10 g) = 3.76 mW/g
 Maximum value of SAR (interpolated) = 5.643 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 = 66.468 V/m; Power Drift = -0.42 dB
 Peak SAR (extrapolated) = 6.612 W/kg
SAR(1 g) = 5.2 mW/g; SAR(10 g) = 3.85 mW/g
 Maximum value of SAR (measured) = 5.493 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) = 5.407 mW/g

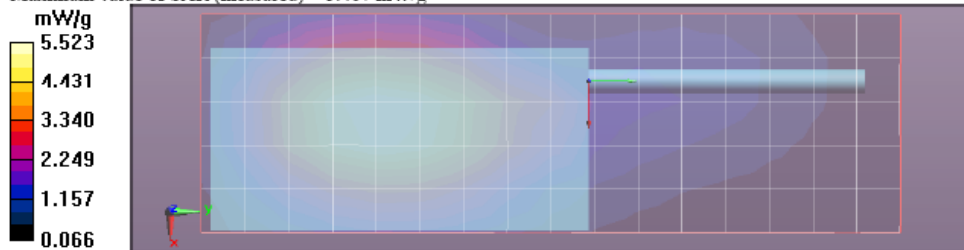


Table 32
(851-869MHz band)
Assessment at the Body with Body worn PMLN4651A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/24/2011 8:51:03 PM, Date/Time: 8/24/2011 9:01:51 PM, Date/Time: 8/24/2011 9:04:43 PM,
Date/Time: 8/24/2011 9:10:52 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110824-11
Phantom# / Tissue Temp.: OVAL1020 / 21.5 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: PMLN4651A / HMN4104B
Start Power: 3.58 (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: 5.02 mW/g (1g); 3.64 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

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

Reference Value = 62.581 V/m; Power Drift = -0.24 dB

Motorola Fast SAR: SAR(1 g) = 5.28 mW/g; SAR(10 g) = 3.7 mW/g

Maximum value of SAR (interpolated) = 5.597 mW/g

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

Reference Value = 62.581 V/m; Power Drift = -0.33 dB

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

Motorola Fast SAR: SAR(1 g) = 5.12 mW/g; SAR(10 g) = 3.58 mW/g

Maximum value of SAR (interpolated) = 5.402 mW/g

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

Reference Value = 62.581 V/m; Power Drift = -0.42 dB

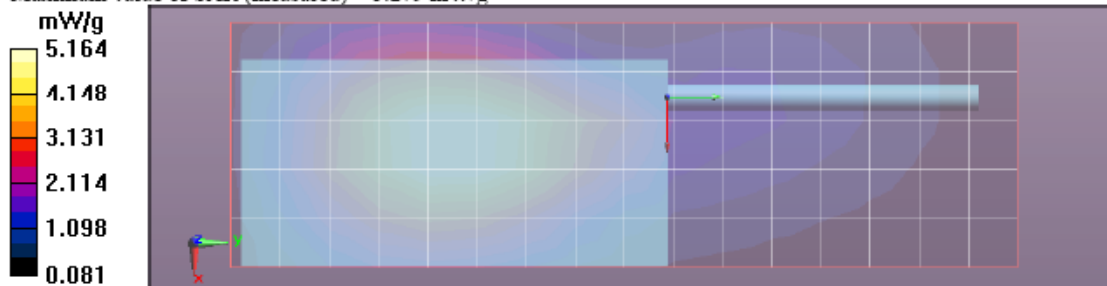
Peak SAR (extrapolated) = 6.616 W/kg

SAR(1 g) = 5.02 mW/g; SAR(10 g) = 3.64 mW/g

Maximum value of SAR (measured) = 5.329 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) = 5.279 mW/g



**Table 33
(851-869MHz band)
Assessments at the Body with Body worn PMLN7008A**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/24/2011 9:27:29 PM, Date/Time: 8/24/2011 9:38:15 PM, Date/Time: 8/24/2011 9:41:09 PM,
Date/Time: 8/24/2011 9:47:18 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110824-12
Phantom# / Tissue Temp.: OVAL1020 / 21.6 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
Start Power: 3.60 (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: 4.47 mW/g (1g); 3.33 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
Electronics: DAE4 Sn850, Calibrated: 7/22/2011
Duty Cycle: 1:1, Medium parameters used: $f = 851 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 57.318 V/m; Power Drift = -0.12 dB
Motorola Fast SAR: SAR(1 g) = 4.55 mW/g; SAR(10 g) = 3.21 mW/g
Maximum value of SAR (interpolated) = 4.810 mW/g

Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm
Reference Value = 57.318 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 4.51 mW/g; SAR(10 g) = 3.17 mW/g
Maximum value of SAR (interpolated) = 4.748 mW/g

Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 57.318 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 5.667 W/kg
SAR(1 g) = 4.47 mW/g; SAR(10 g) = 3.33 mW/g
Maximum value of SAR (measured) = 4.703 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) = 4.653 mW/g

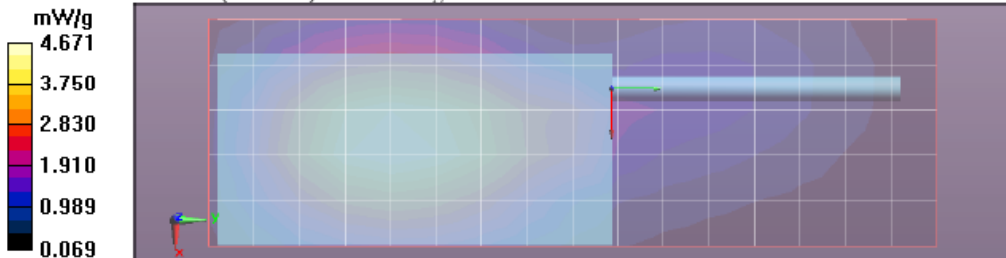


Table 34
(851-869MHz band)
Assessments at the Body with Body worn PMLN7008A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/24/2011 11:18:57 PM, Date/Time: 8/24/2011 11:29:43 PM, Date/Time: 8/24/2011 11:32:34 PM,
Date/Time: 8/24/2011 11:38:43 PM

Robot# / Run#: DASY5-FL-2 / CM-Ab-110824-14
Phantom# / Tissue Temp.: OVAL1020 / 21.6 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: PMLN7008A / HMN4104B
Start Power: 3.60 (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: 5.23 mW/g (1g); 3.80 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
Electronics: DAE4 Sn850, Calibrated: 7/22/2011
Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 64.439 V/m; Power Drift = -0.29 dB
Motorola Fast SAR: SAR(1 g) = 5.46 mW/g; SAR(10 g) = 3.83 mW/g
Maximum value of SAR (interpolated) = 5.773 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 = 64.439 V/m; Power Drift = -0.34 dB
Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 5.34 mW/g; SAR(10 g) = 3.73 mW/g
Maximum value of SAR (interpolated) = 5.622 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 = 64.439 V/m; Power Drift = -0.41 dB
Peak SAR (extrapolated) = 6.886 W/kg
SAR(1 g) = 5.23 mW/g; SAR(10 g) = 3.8 mW/g
Maximum value of SAR (measured) = 5.535 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) = 5.498 mW/g

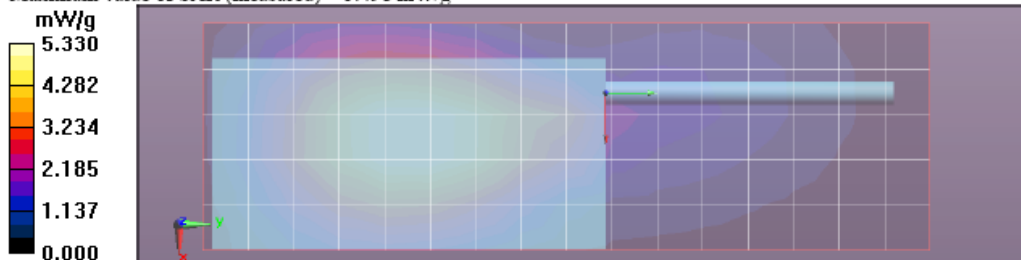


Table 35
(851-869MHz band)
Assessment at the Body with Body worn PMLN5950A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 6:38:49 AM, Date/Time: 8/25/2011 6:52:31 AM, Date/Time: 8/25/2011 6:58:43 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110825-02
 Phantom# / Tissue Temp.: OVAL1020 / 21.3 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
 Start Power: 3.59 (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: 2.04 mW/g (1g); 1.52 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011

Duty Cycle: 1:1, Medium parameters used: f = 851 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.160 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 = 44.072 V/m; Power Drift = -0.32 dB
 Peak SAR (extrapolated) = 2.626 W/kg
 SAR(1 g) = 2.04 mW/g; SAR(10 g) = 1.52 mW/g
 Maximum value of SAR (measured) = 2.140 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) = 2.107 mW/g

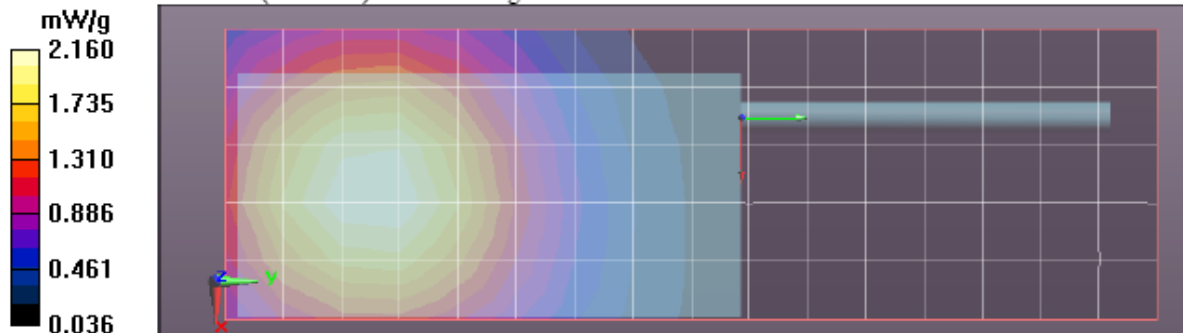


Table 36
(851-869MHz band)
Assessment at the Body with Body worn PMLN5950A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 7:59:02 AM, Date/Time: 8/25/2011 8:12:45 AM, Date/Time: 8/25/2011 8:18:56 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110825-04
 Phantom# / Tissue Temp.: OVAL1020 / 21.1 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN5950A / HMN4104B
 Start Power: 3.60 (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: 1.86 mW/g (1g); 1.39 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)
 Electronics: DAE4 Sn850, Calibrated: 7/22/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 851 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.020 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 = 43.007 V/m; Power Drift = -0.34 dB
 Peak SAR (extrapolated) = 2.409 W/kg
 SAR(1 g) = 1.86 mW/g; SAR(10 g) = 1.39 mW/g
 Maximum value of SAR (measured) = 1.963 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) = 1.946 mW/g

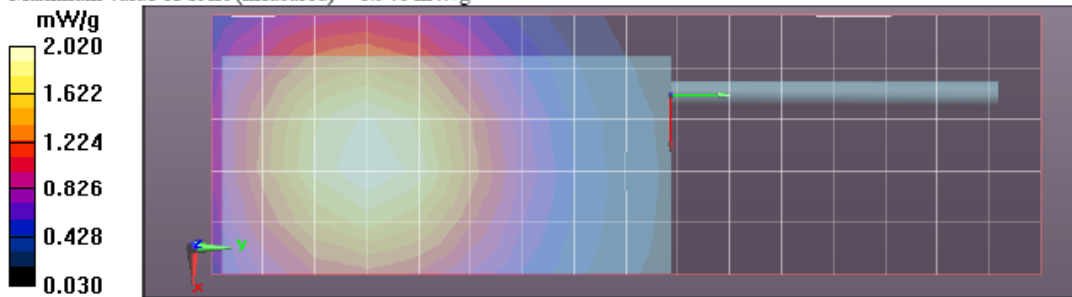


Table 37
(851-869MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 8:40:47 AM, Date/Time: 8/25/2011 8:54:33 AM, Date/Time: 8/25/2011 9:00:43 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110825-05
 Phantom# / Tissue Temp.: OVAL1020 / 21.0 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8128A
 Carry Acc. / Cable Acc.: PMLN5950A w/NTN5243A / HMN4104B
 Start Power: 3.68 (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: 4.33 mW/g (1g); 3.18 mW/g (10g)

Comments: Full Scan. Without Belt Loop

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 4.796 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 = 59.784 V/m; Power Drift = -0.52 dB

Peak SAR (extrapolated) = 5.654 W/kg

SAR(1 g) = 4.33 mW/g; SAR(10 g) = 3.18 mW/g

Maximum value of SAR (measured) = 4.580 mW/g

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

Maximum value of SAR (measured) = 4.471 mW/g

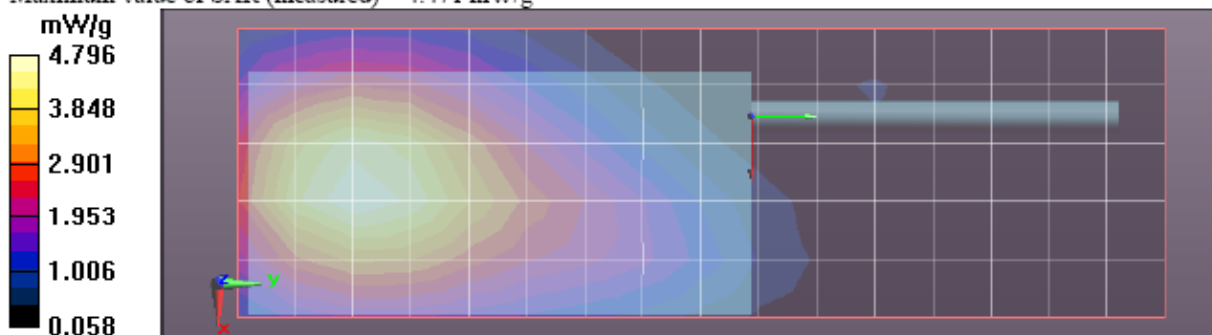


Table 38
(851-869MHz band)
Assessment at the Body with Body worn PMLN5950A/NTN5243A (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 9:54:00 AM, Date/Time: 8/25/2011 10:07:44 AM, Date/Time: 8/25/2011 10:13:56 AM

Robot# / Run#: DASY5-FL-2 / ErC-Ab-110825-07
 Phantom# / Tissue Temp.: OVAL1020 / 20.9 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: PMLN5950A w/NTN5243A / HMN4104B
 Start Power: 3.68 (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: 3.44 mW/g (1g); 2.53 mW/g (10g)

Comments: Full Scan. Without Belt Loop

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.28, 6.28, 6.28)

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

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.643 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 = 56.734 V/m; Power Drift = -0.54 dB

Peak SAR (extrapolated) = 4.485 W/kg

SAR(1 g) = 3.44 mW/g; SAR(10 g) = 2.53 mW/g

Maximum value of SAR (measured) = 3.626 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) = 3.588 mW/g

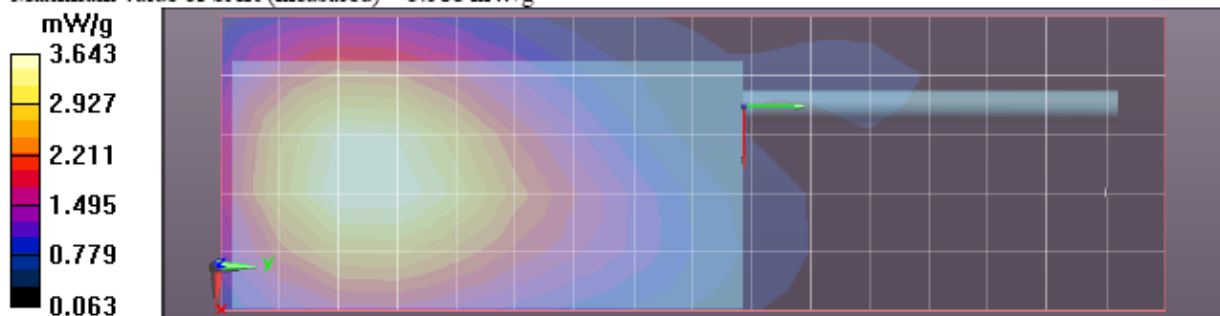


Table 39
Assessment of wireless BT configuration

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/19/2011 8:24:41 PM, Date/Time: 9/19/2011 8:36:05 PM, Date/Time: 9/19/2011 8:39:03 PM,
Date/Time: 9/19/2011 8:46:42 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-110919-15
Phantom# / Tissue Temp.: OVAL1019 / 22.2 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1554) / 426TMM0204
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: PMLN7008A / None
Start Power: 3.55 (W)

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

Reported SAR: 7.94 mW/g (1g); 5.89 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(5.99, 5.99, 5.99)
Electronics: DAE3 Sn363, Calibrated: 4/13/2011

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Reference Value = 82.342 V/m; Power Drift = -0.29 dB

Motorola Fast SAR: SAR(1 g) = 8.91 mW/g; SAR(10 g) = 6.24 mW/g

Maximum value of SAR (interpolated) = 9.473 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 = 82.342 V/m; Power Drift = -0.33 dB

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

Motorola Fast SAR: SAR(1 g) = 8.77 mW/g; SAR(10 g) = 6.12 mW/g

Maximum value of SAR (interpolated) = 9.258 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 = 82.342 V/m; Power Drift = -0.79 dB

Peak SAR (extrapolated) = 9.877 W/kg

SAR(1 g) = 7.88 mW/g; SAR(10 g) = 5.86 mW/g

Maximum value of SAR (measured) = 8.308 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) = 8.159 mW/g

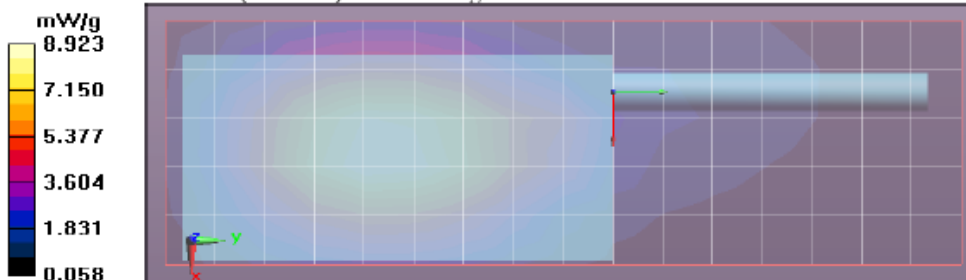


Table 41
(764-775MHz band)
Assessment at the Face of offered antennas

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 6:20:37 PM, Date/Time: 8/25/2011 6:31:02 PM, Date/Time: 8/25/2011 6:33:50 PM,
Date/Time: 8/25/2011 6:39:58 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110825-14
Phantom# / Tissue Temp.: OVAL1011 / 20.7 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.12 (W)

Note:

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

Reported SAR: 1.95 mW/g (1g); 1.45 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.58, 6.58, 6.58)

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

Duty Cycle: 1:1, Medium parameters used: $f = 764$ MHz; $\sigma = 0.85$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³

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

Reference Value = 47.296 V/m; Power Drift = -0.47 dB

Motorola Fast SAR: SAR(1 g) = 1.91 mW/g; SAR(10 g) = 1.38 mW/g

Maximum value of SAR (interpolated) = 2.013 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 = 47.296 V/m; Power Drift = -0.43 dB

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

Motorola Fast SAR: SAR(1 g) = 1.9 mW/g; SAR(10 g) = 1.38 mW/g

Maximum value of SAR (interpolated) = 2.002 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 = 47.296 V/m; Power Drift = -0.46 dB

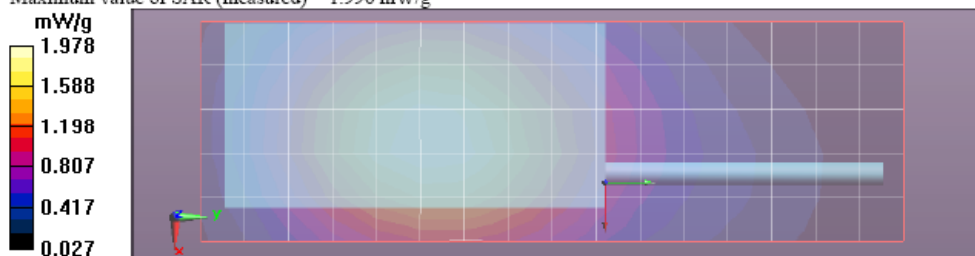
Peak SAR (extrapolated) = 2.402 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.41 mW/g

Maximum value of SAR (measured) = 1.972 mW/g

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

Maximum value of SAR (measured) = 1.996 mW/g



**Table 42
(764-775MHz band)
Assessment at the Face (additional battery)**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 7:32:08 PM, Date/Time: 8/25/2011 7:42:33 PM, Date/Time: 8/25/2011 7:45:22 PM,
Date/Time: 8/25/2011 7:51:30 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110825-16
Phantom# / Tissue Temp.: OVAL1011 / 20.7 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 764.0125 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.10 (W)

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

Reported SAR: 1.96 mW/g (1g); 1.46 mW/g (10g)

Comments: Full Scan.

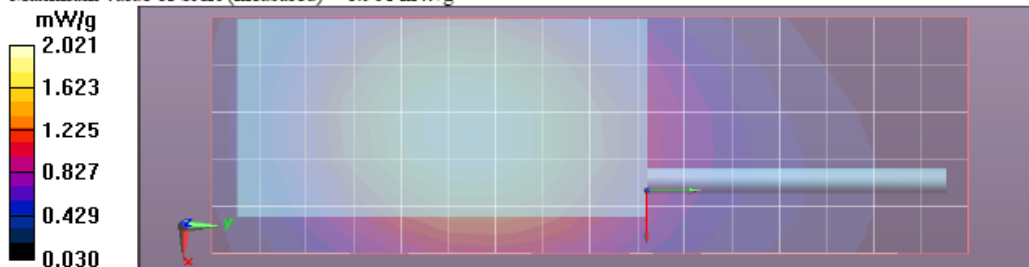
Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.58, 6.58, 6.58)
Electronics: DAE4 Sn850, Calibrated: 7/22/2011
Duty Cycle: 1:1, Medium parameters used: $f = 764 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$

Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 44.453 V/m; Power Drift = -0.17 dB
Motorola Fast SAR: SAR(1 g) = 1.97 mW/g; SAR(10 g) = 1.42 mW/g
Maximum value of SAR (interpolated) = 2.073 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 = 44.453 V/m; Power Drift = -0.21 dB
Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.39 mW/g
Maximum value of SAR (interpolated) = 2.016 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 = 44.453 V/m; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 2.409 W/kg
SAR(1 g) = 1.89 mW/g; SAR(10 g) = 1.42 mW/g
Maximum value of SAR (measured) = 1.979 mW/g

Below 3 GHz-Rev.4e/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.961 mW/g



**Table 44
(794-824MHz band)
Assessment at the Face of offered antennas**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 8:10:14 PM, Date/Time: 8/25/2011 8:20:35 PM, Date/Time: 8/25/2011 8:23:23 PM,
Date/Time: 8/25/2011 8:29:31 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110825-17
Phantom# / Tissue Temp.: OVAL1011 / 20.7 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8129A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.70 (W)

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

Reported SAR: 2.52 mW/g (1g); 1.86 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)
Electronics: DAE4 Sn850, Calibrated: 7/22/2011
Duty Cycle: 1:1, Medium parameters used: f = 809 MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (51x161x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 49.424 V/m; Power Drift = 0.024 dB
Motorola Fast SAR: SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.79 mW/g
Maximum value of SAR (interpolated) = 2.624 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 = 49.424 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = **Not Specified** W/kg
Motorola Fast SAR: SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.81 mW/g
Maximum value of SAR (interpolated) = 2.634 mW/g

Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 49.424 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 3.236 W/kg
SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.85 mW/g
Maximum value of SAR (measured) = 2.622 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) = 2.623 mW/g

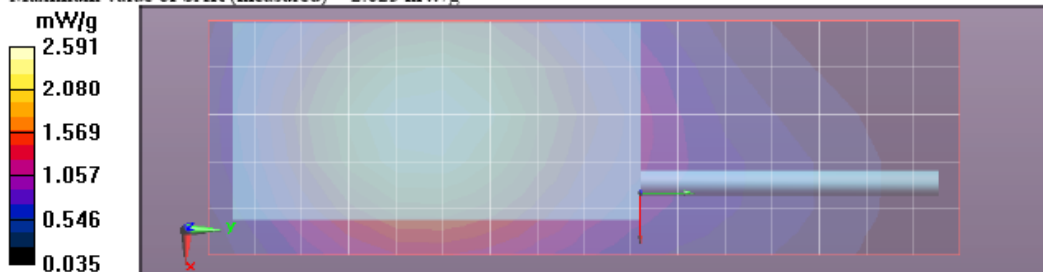


Table 45
(794-824MHz band)
Assessment at the Face (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 9:52:40 PM, Date/Time: 8/25/2011 10:03:06 PM, Date/Time: 8/25/2011 10:05:53 PM,
Date/Time: 8/25/2011 10:12:00 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110825-20
Phantom# / Tissue Temp.: OVAL1011 / 20.6 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
Antenna / TX Freq.: NAR6595A / 809.0000 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.71 (W)

Note:

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

Reported SAR: 2.57 mW/g (1g); 1.89 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)

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

Duty Cycle: 1:1, Medium parameters used: $f = 809$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

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

Reference Value = 49.453 V/m; Power Drift = 0.029 dB

Motorola Fast SAR: SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.87 mW/g

Maximum value of SAR (interpolated) = 2.740 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 = 49.453 V/m; Power Drift = -0.037 dB

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

Motorola Fast SAR: SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.86 mW/g

Maximum value of SAR (interpolated) = 2.708 mW/g

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

Reference Value = 49.453 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 3.303 W/kg

SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.88 mW/g

Maximum value of SAR (measured) = 2.675 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) = 2.769 mW/g

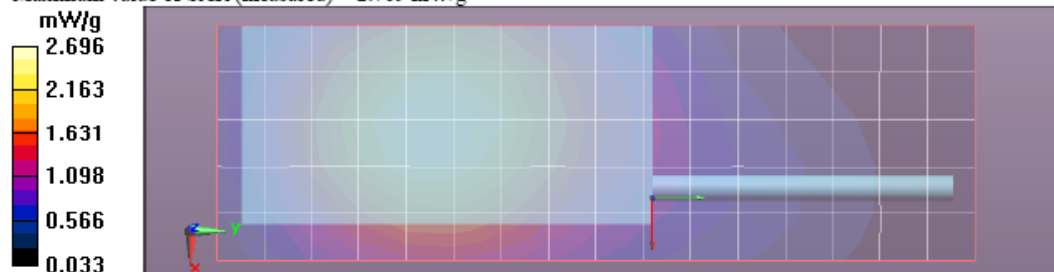


Table 47
(851-869MHz band)
Assessment at the Face of offered antennas

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/25/2011 1:38:30 PM, Date/Time: 8/25/2011 1:53:31 PM, Date/Time: 8/25/2011 2:02:17 PM

Robot# / Run#: DASY5-FL-2 / ErC-Face-110825-09
 Phantom# / Tissue Temp.: OVAL1011 / 20.6 (C)
 DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0092
 Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
 Battery: NNTN8129A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 3.67 (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: 3.73 mW/g (1g); 2.72 mW/g (10g)

Comments: Full Scan.

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)

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

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.668 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 = 54.262 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 4.925 W/kg

SAR(1 g) = 3.72 mW/g; SAR(10 g) = 2.72 mW/g

Maximum value of SAR (measured) = 3.919 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) = 3.889 mW/g

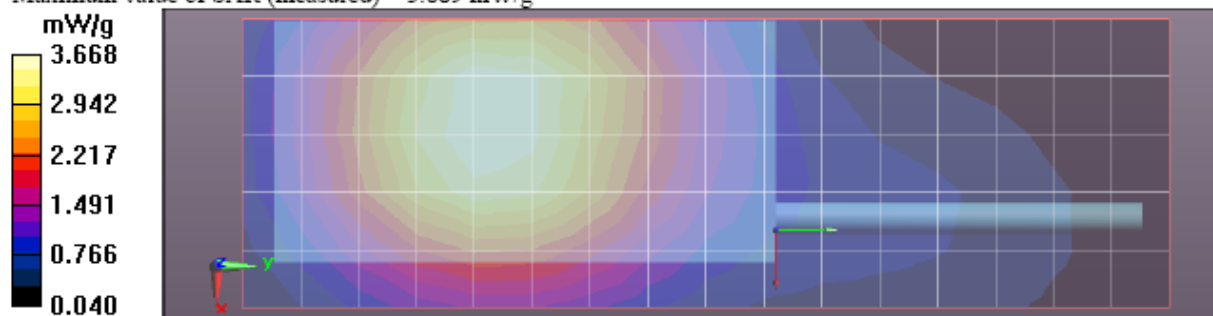


Table 48
(851-869MHz band)
Assessment at the Face (additional battery)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/29/2011 7:25:02 PM, Date/Time: 8/29/2011 7:34:42 PM, Date/Time: 8/29/2011 7:37:28 PM,
Date/Time: 8/29/2011 7:43:34 PM

Robot# / Run#: DASY5-FL-2 / CM-Face-110829-14
Phantom# / Tissue Temp.: OVAL1011 / 21.8 (C)
DUT Model# / Serial#: H51UCH9PW7AN (MUF1555) / 426TMM0091
Antenna / TX Freq.: NAR6595A / 851.0125 (MHz)
Battery: NNTN8128A
Carry Acc. / Cable Acc.: None / None
Start Power: 3.59 (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: 5.59 mW/g (1g); 4.07 mW/g (10g)

Comments: Full Scan

Probe: ES3DV3 - SN3291, Calibrated: 7/22/2011, ConvF(6.24, 6.24, 6.24)

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

Duty Cycle: 1:1, Medium parameters used: $f = 851$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

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

Reference Value = 68.731 V/m; Power Drift = -0.034 dB

Motorola Fast SAR: SAR(1 g) = 5.59 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.897 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 = 68.731 V/m; Power Drift = -0.088 dB

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

Motorola Fast SAR: SAR(1 g) = 5.6 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.896 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 = 68.731 V/m; Power Drift = -0.17 dB

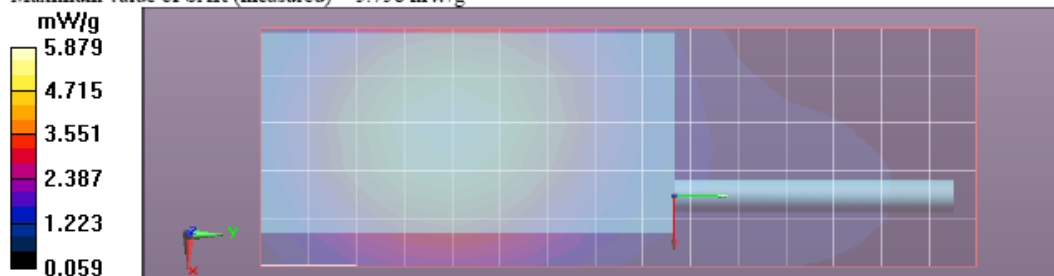
Peak SAR (extrapolated) = 7.302 W/kg

SAR(1 g) = 5.52 mW/g; SAR(10 g) = 4.03 mW/g

Maximum value of SAR (measured) = 5.820 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) = 5.758 mW/g



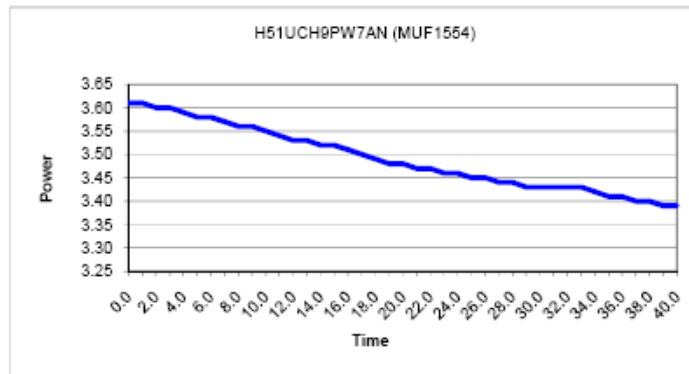
APPENDIX G DUT Supplementary Data (Power slump)

Model # H51UCH9PW7AN (MUF1554)
Serial # 426TMM0204

| | | | |
|------------------|--------------|------------------------|------|
| Battery | NNTN8128A | Transmit Mode | CW |
| Frequency | 809.0000 MHz | Audio Accessory | None |
| Date | 9/20/2011 | | |

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

| | |
|------|------|
| 0.0 | 3.61 |
| 1.0 | 3.61 |
| 2.0 | 3.60 |
| 3.0 | 3.60 |
| 4.0 | 3.59 |
| 5.0 | 3.58 |
| 6.0 | 3.58 |
| 7.0 | 3.57 |
| 8.0 | 3.56 |
| 9.0 | 3.56 |
| 10.0 | 3.55 |
| 11.0 | 3.54 |
| 12.0 | 3.53 |
| 13.0 | 3.53 |
| 14.0 | 3.52 |
| 15.0 | 3.52 |
| 16.0 | 3.51 |
| 17.0 | 3.50 |
| 18.0 | 3.49 |
| 19.0 | 3.48 |
| 20.0 | 3.48 |
| 21.0 | 3.47 |
| 22.0 | 3.47 |
| 23.0 | 3.46 |
| 24.0 | 3.46 |
| 25.0 | 3.45 |
| 26.0 | 3.45 |
| 27.0 | 3.44 |
| 28.0 | 3.44 |
| 29.0 | 3.43 |
| 30.0 | 3.43 |
| 31.0 | 3.43 |
| 32.0 | 3.43 |
| 33.0 | 3.43 |
| 34.0 | 3.42 |
| 35.0 | 3.41 |
| 36.0 | 3.41 |
| 37.0 | 3.40 |
| 38.0 | 3.40 |
| 39.0 | 3.39 |
| 40.0 | 3.39 |



Appendix H
DUT Test Position Photos

Photos available in Exhibit 7B

Appendix I
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B