


MOTOROLA SOLUTIONS

TESTING CERT # 2518.05
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Enterprise Mobility Solutions
EME Test Laboratory
 Motorola Solutions Malaysia Sdn Bhd (455657-H)
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Date of Report: 3/20/2012
Report Revision: B
Report ID: SAR rpt_PMUD2627A_Rev.B
 120320_SR9692

Responsible Engineer: Veeramani Veerapan (Senior EME Engineer)
Report Author: Veeramani Veerapan (Senior EME Engineer)
Date/s Tested: 7/16/11-8/01/11
Manufacturer/Location: Penang, Malaysia
Sector/Group/Div.: EMS
Date submitted for test: 6/28/11
DUT Description: 136-174 MHz, 5W, LKP
Test TX mode(s): CW (PTT)
Max. Power output: 6.0 W
Nominal Power: 5.0 W
Tx Frequency Bands: 136-174 MHz
Signaling type: FM
Model(s) Tested: PMUD2627A
Model(s) Certified: PMUD2627A
Serial Number(s): 867TMM0080, 867TMM0084
Classification: Occupational/Controlled
FCC ID: ABZ99FT3088; Rule part 90 (150.8-173.4 MHz)
IC: 109AB-99FT3088; (138-144; 148-149.9 and 150.05-174 MHz)

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

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing.

The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc 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: 3/20/2012

Certification Date: 9/23/2011

Certification No.: L1110915P

Appendix D

Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificates for dipole D300V3 S/N 1004 were not used due to the following:

- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.
- SPEAG calibration certificate indicates that the allowed tolerance for these dipole are higher than +/- 10% (e.g. up to 2.92 +/-18.1% at k=2 for the D300V3 S/N 1004).
- The allowed tolerances for the probe are also higher than +/- 10% (e.g. 13.4% k=2 at 300 MHz for the probe being used to assess this product).

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

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

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

Note that the targets set for the tested dipoles, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between these results and the results from the manufacture's dipole calibration certificate are up to 8 % for 300 MHz dipole S/N 1004 dipole which are well within the measurement uncertainty of the measurement system at k=2.

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

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Date/Time: 7/16/2011 9:45:15 AM

Robot# / Run#: DASY4-PG-1 / Lee-SYSP-300B-110716-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.7 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250(mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.56 mW/g (1g)

Percent from Target (+/-): 5.30 % (1g)

Rotation (1D): 0.041 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: 0.639 mW/g (1g); 0.434 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.9 V/m; Power Drift = 0.0101 dB

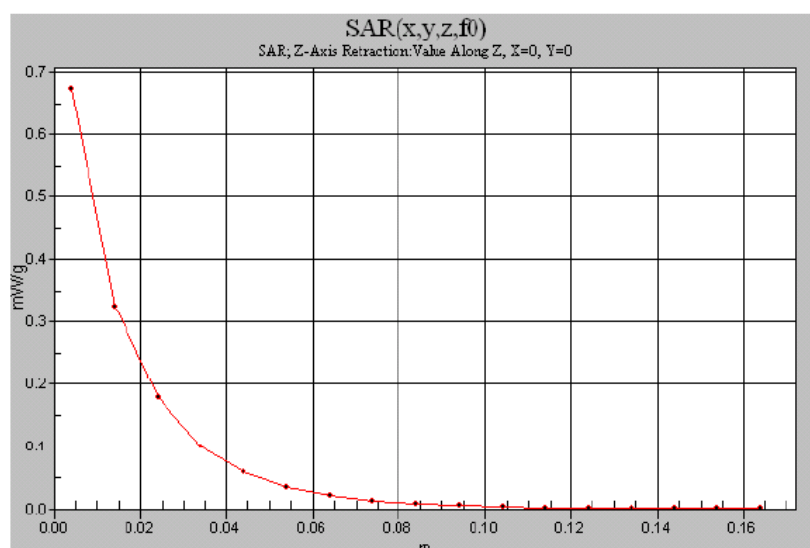
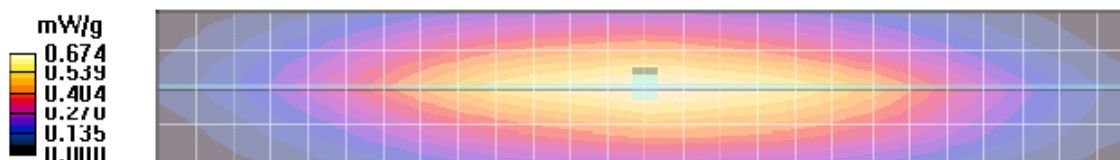
Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.431 mW/g

Maximum value of SAR (measured) = 0.674 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.672 mW/g

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

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Date/Time: 7/17/2011 7:20:18 AM

Robot# / Run#: DASY4-PG-1 / CcC-SYSP-300B-110717-01

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

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.79 mW/g (1g)

Percent from Target (+/-): 3.30 % (1g)

Rotation (1D): 0.044 dB

Note:

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

Reported SAR: 0.697 mW/g (1g); 0.473 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³

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

Reference Value = 29.1 V/m; Power Drift = 0.00847 dB

Peak SAR (extrapolated) = 1.01 W/kg

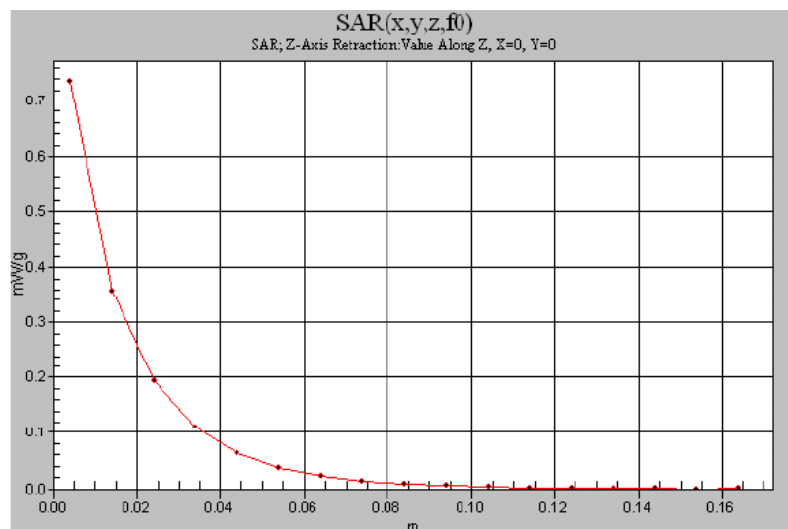
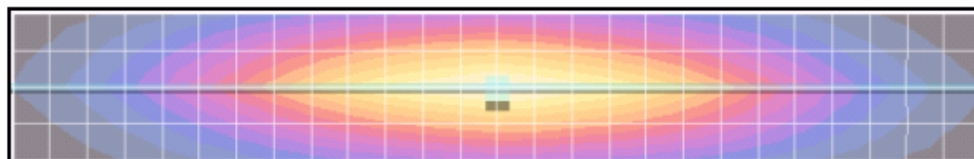
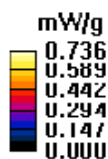
SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.470 mW/g

Maximum value of SAR (measured) = 0.730 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.736 mW/g



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Date/Time: 7/18/2011 6:47:18 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110718-01

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

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.83 mW/g (1g)

Percent from Target (+/-): 4.90 % (1g)

Rotation (1D): 0.042 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: 0.708 mW/g (1g); 0.480 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³

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

Reference Value = 29.3 V/m; Power Drift = -0.0042 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.476 mW/g

Maximum value of SAR (measured) = 0.747 mW/g

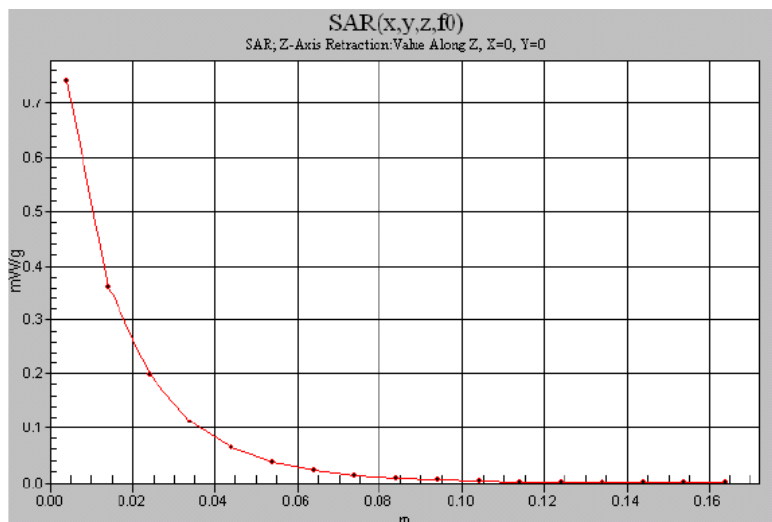
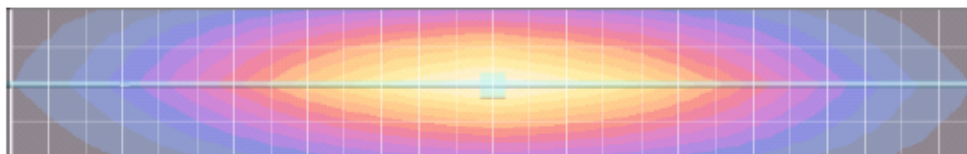
System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.738 mW/g

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

Maximum value of SAR (measured) = 0.742 mW/g

mW/g
0.742
0.594
0.445
0.297
0.148
0.000



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/19/2011 7:07:30 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110719-01
 Phantom# / Tissue Temp.: ELI4 1103 / 21.4 (C)
 Dipole Model# / Serial#: D300V3 / 1004
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)
 Adjusted SAR (1W): 2.83 mW/g (1g)
 Percent from Target (+/-): 4.90 % (1g)
 Rotation (1D): 0.047 dB

Note:

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

Reported SAR: 0.708 mW/g (1g); 0.484 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

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

Reference Value = 29.3 V/m; Power Drift = 0.00877 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.480 mW/g

Maximum value of SAR (measured) = 0.745 mW/g

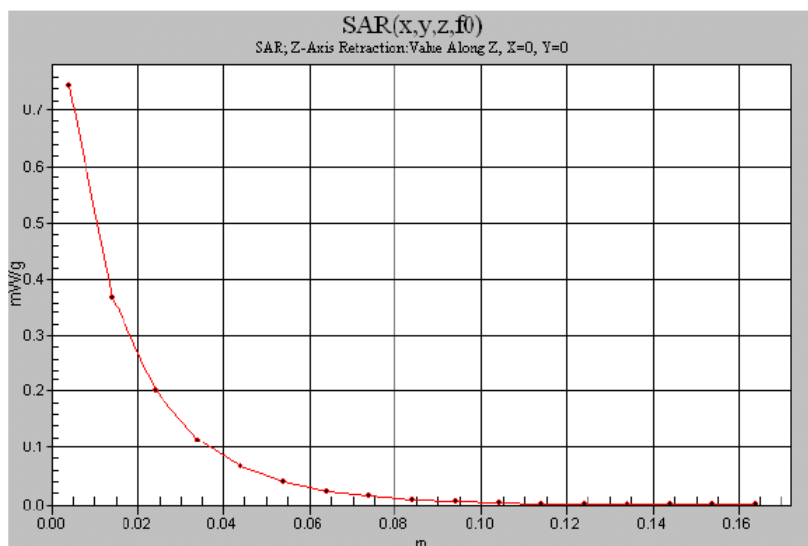
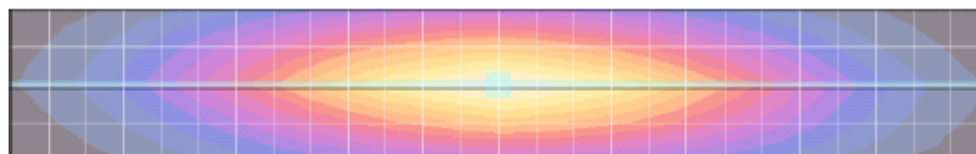
System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.744 mW/g

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

Maximum value of SAR (measured) = 0.746 mW/g

mW/g
 0.746
 0.597
 0.448
 0.298
 0.149
 0.000



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/20/2011 7:45:51 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110720-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.85 mW/g (1g)

Percent from Target (+/-): 5.60 % (1g)

Rotation (1D): 0.043 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: 0.713 mW/g (1g); 0.485 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.4 V/m; Power Drift = 0.00596 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.481 mW/g

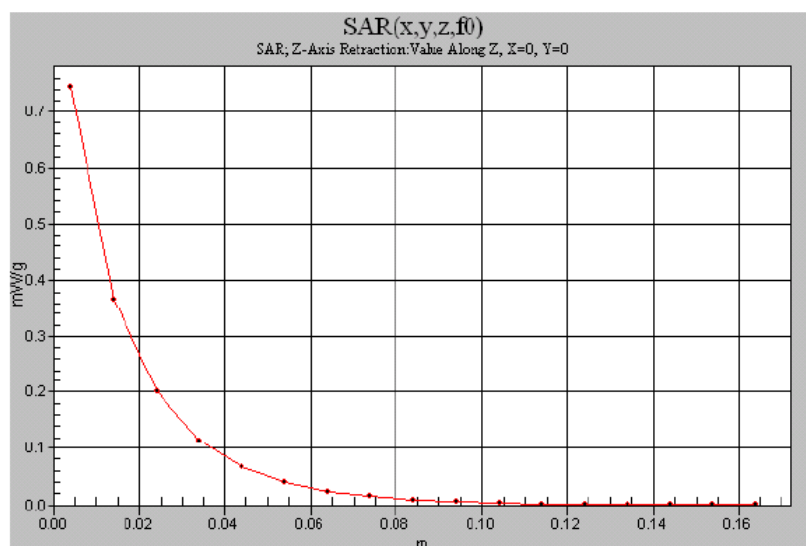
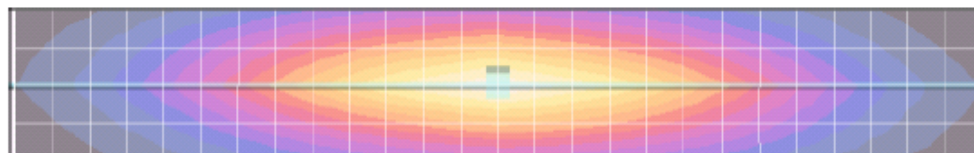
Maximum value of SAR (measured) = 0.752 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm**System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.745 mW/g

mW/g

0.745
0.596
0.447
0.298
0.149
0.000



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/21/2011 7:00:56 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110721-01
 Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)
 Dipole Model# / Serial#: D300V3 / 1004
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)
 Adjusted SAR (1W): 2.83 mW/g (1g)
 Percent from Target (+/-): 4.70 % (1g)
 Rotation (1D): 0.043 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: 0.707 mW/g (1g); 0.481 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³

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

Reference Value = 29.3 V/m; Power Drift = 0.00447 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.477 mW/g

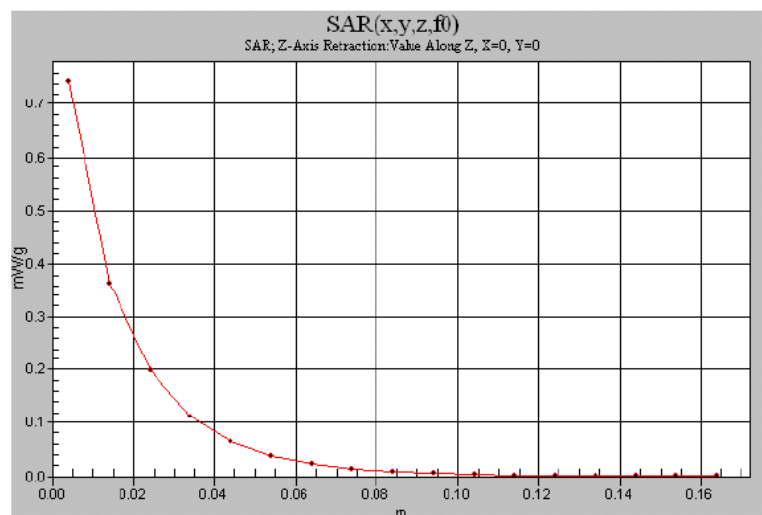
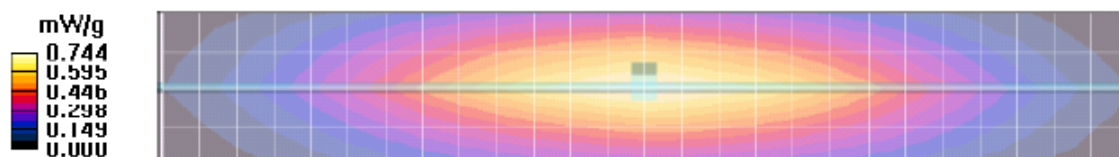
Maximum value of SAR (measured) = 0.745 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.743 mW/g

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

Maximum value of SAR (measured) = 0.744 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/22/2011 7:02:40 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110722-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.88 mW/g (1g)

Percent from Target (+/-): 6.50 % (1g)

Rotation (1D): 0.048 dB

Note:

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

Reported SAR: 0.719 mW/g (1g); 0.490 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 56.8$; $\rho = 1000$ kg/m³

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

Reference Value = 29.5 V/m; Power Drift = -0.00722 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.486 mW/g

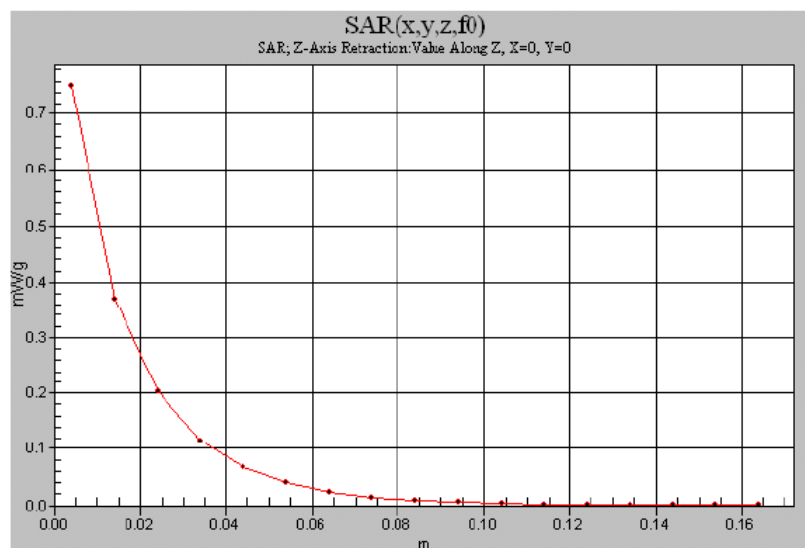
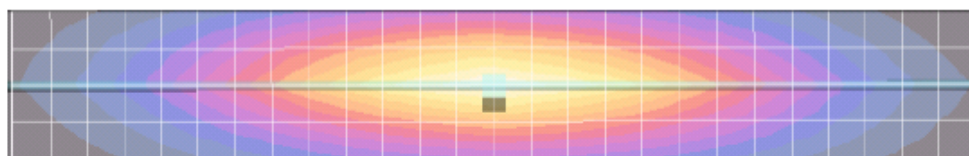
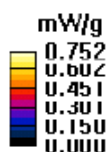
Maximum value of SAR (measured) = 0.759 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.754 mW/g

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

Maximum value of SAR (measured) = 0.752 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/25/2011 10:49:35 AM

Robot# / Run#: DASY4-PG-1 / CcC-SYSP-300B-110725-01

Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.85 mW/g (1g)

Percent from Target (+/-): 5.60 % (1g)

Rotation (1D): 0.048 dB

Note:

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

Reported SAR: 0.713 mW/g (1g); 0.486 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57.3$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.4 V/m; Power Drift = -0.00851 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.482 mW/g

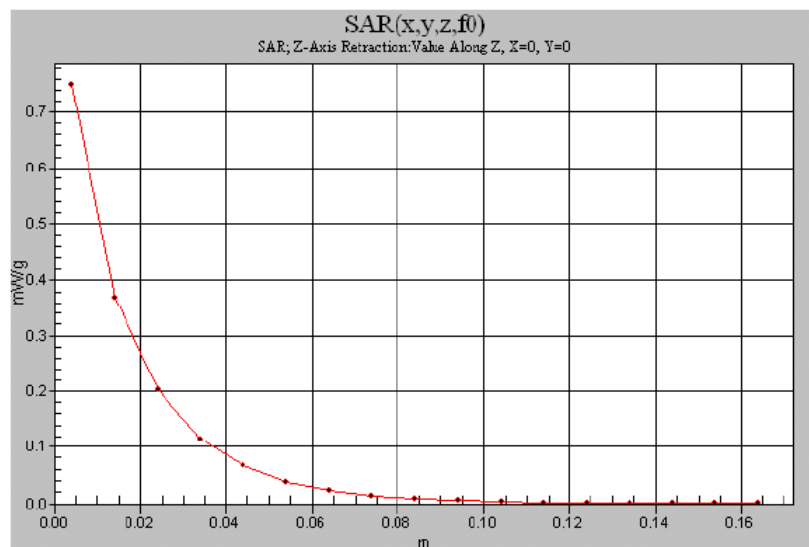
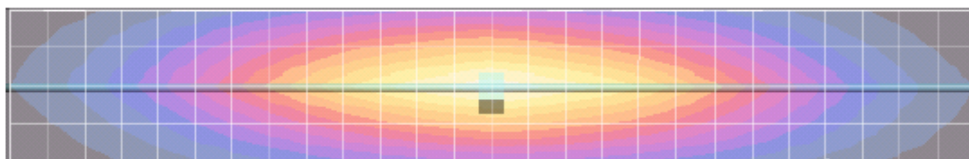
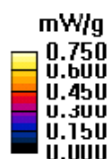
Maximum value of SAR (measured) = 0.751 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.749 mW/g

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

Maximum value of SAR (measured) = 0.750 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/26/2011 6:42:40 AM

Robot# / Run#: DASY4-PG-1 / CcC-SYSP-300B-110726-01

Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.81 mW/g (1g)

Percent from Target (+/-): 4.10 % (1g)

Rotation (1D): 0.045 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: 0.703 mW/g (1g); 0.479 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57.2$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.2 V/m; Power Drift = -0.00601 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.475 mW/g

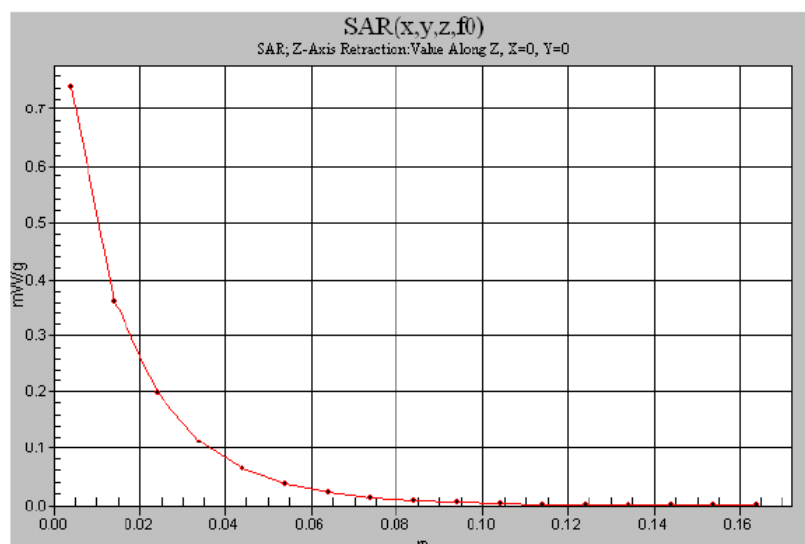
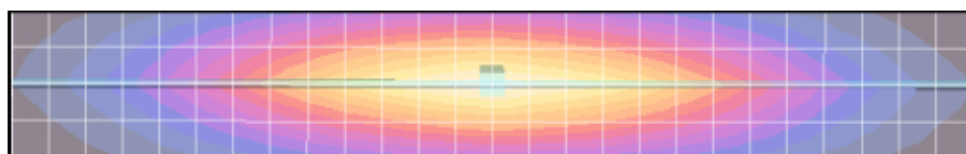
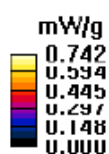
Maximum value of SAR (measured) = 0.741 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.740 mW/g

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

Maximum value of SAR (measured) = 0.742 mW/g



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/27/2011 7:24:48 AM

Robot# / Run#: DASY4-PG-1 / CcC-SYSP-300B-110727-01
 Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
 Dipole Model# / Serial#: D300V3 / 1004
 TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)
 Adjusted SAR (1W): 2.79 mW/g (1g)
 Percent from Target (+/-): 3.40 % (1g)
 Rotation (1D): 0.053 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: 0.698 mW/g (1g); 0.476 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³

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

Reference Value = 29.0 V/m; Power Drift = -0.0287 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.474 mW/g

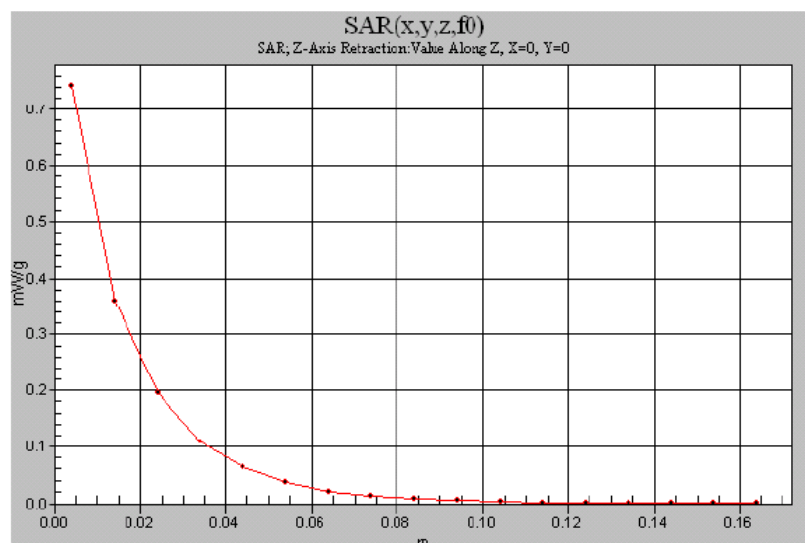
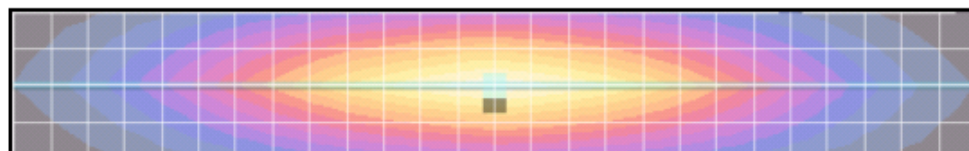
Maximum value of SAR (measured) = 0.741 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.742 mW/g

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

mW/g
 0.742
 0.594
 0.445
 0.297
 0.148
 0.000



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/28/2011 2:23:42 PM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110728-01

Phantom# / Tissue Temp.: ELI4 1103 / 21.1 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.88 mW/g (1g)

Percent from Target (+/-): 6.80 % (1g)

Rotation (1D): 0.047 dB

Note:

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

Reported SAR: 0.721 mW/g (1g); 0.490 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 57.3$; $\rho = 1000$ kg/m³

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

Reference Value = 29.5 V/m; Power Drift = 0.0103 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.710 mW/g; SAR(10 g) = 0.486 mW/g

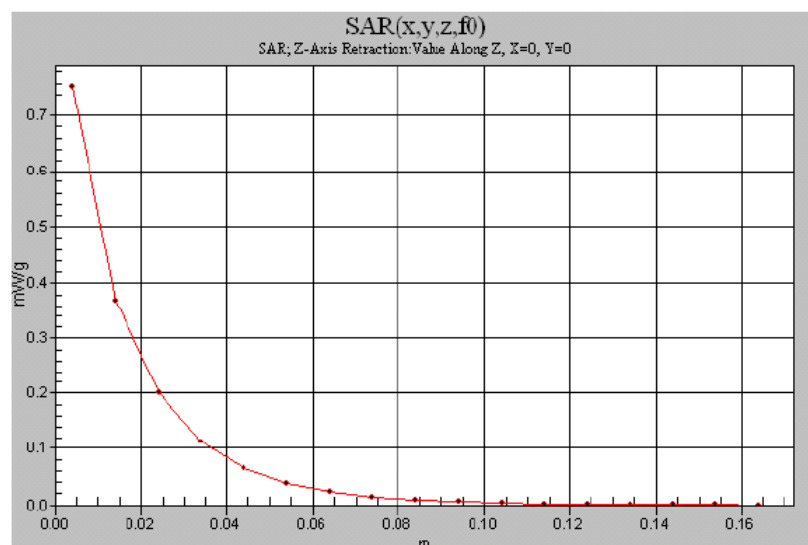
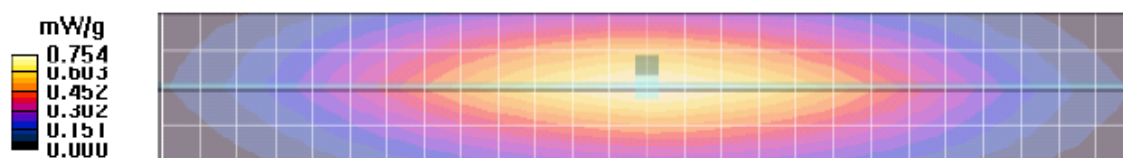
Maximum value of SAR (measured) = 0.762 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.756 mW/g

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

Maximum value of SAR (measured) = 0.754 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/29/2011 7:15:26 AM

Robot# / Run#: DASY4-PG-1 / CcC-SYSP-300H-110729-01

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

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.89 mW/g (1g)

Percent from Target (+/-): 7.00 % (1g)

Rotation (1D): 0.05 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: 0.722 mW/g (1g); 0.485 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.5, 7.5, 7.5)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 45.8$; $\rho = 1000$ kg/m³**System Performance Check/0-Degree Cube (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.0 V/m; Power Drift = -0.0289 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.483 mW/g

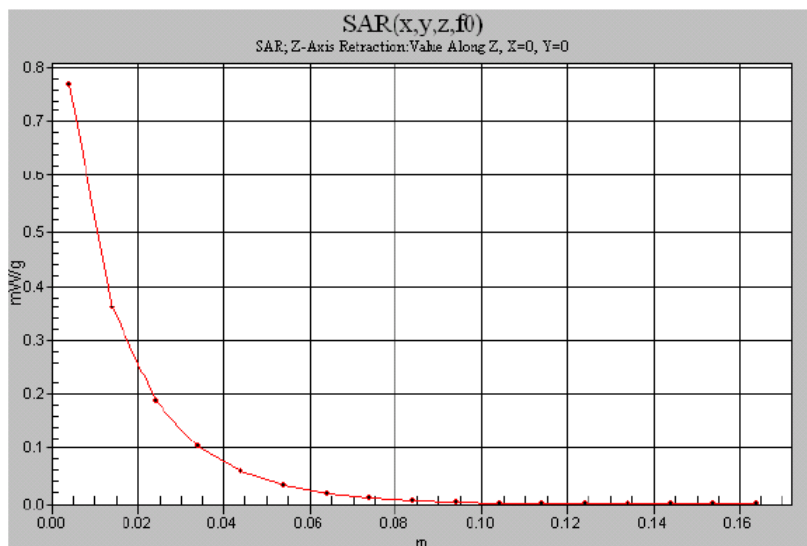
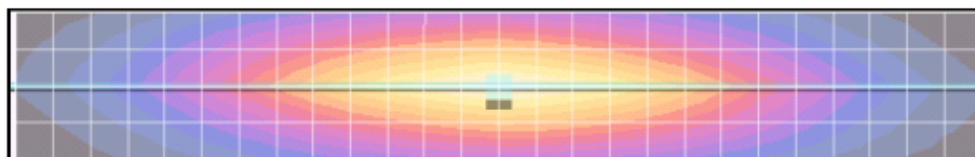
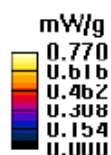
Maximum value of SAR (measured) = 0.764 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.765 mW/g

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

Maximum value of SAR (measured) = 0.770 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/1/2011 7:26:04 AM

Robot# / Run#: DASY4-PG-1 / PS-SYSP-300B-110801-01

Phantom# / Tissue Temp.: ELI4 1028 / 21.3 (C)

Dipole Model# / Serial#: D300V3 / 1004

TX Freq. / Start power: 300 (MHz) / 250 (mW)

Target SAR (1W): 2.70 mW/g (1g)

Adjusted SAR (1W): 2.79 mW/g (1g)

Percent from Target (+/-): 3.40 % (1g)

Rotation (1D): 0.049 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: 0.698 mW/g (1g); 0.474 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.4, 7.4, 7.4)

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

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 57$; $\rho = 1000$ kg/m³

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

Reference Value = 29.1 V/m; Power Drift = -0.002 dB

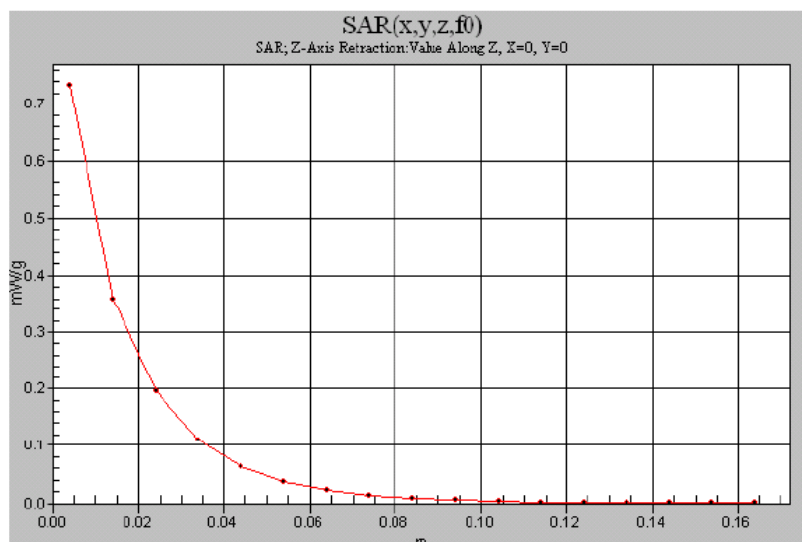
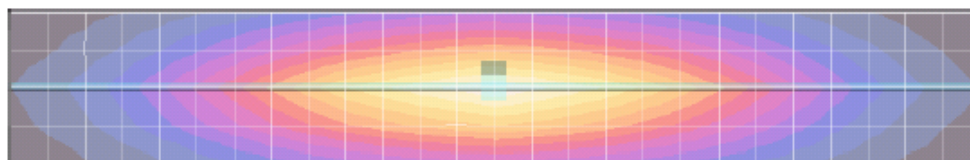
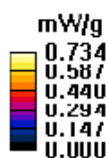
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.734 mW/g

System Performance Check/Dipole Area Scan 2 (5x27x1): Measurement grid: dx=15mm, dy=15mm

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



DIPOLE SAR TARGET - BODY

Date: 05/10/11 Frequency (MHz): 300
 Lab Location: PG-EMS Mixture Type: Body
 DAE Serial #: 374 Ambient Temp.(°C): 21.6

Tissue Characteristics

Permittivity: 57.2 Phantom Type/SN: ELI4 1037
 Conductivity: 0.88 Distance (mm): 15
 Tissue Temp.(°C): 21.8

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 1004

New Target:

Average Measured SAR Value: 2.70 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3096	2.63	-2.4%	R2
3122	2.76	2.4%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Patrick Saw Initial: AS 05.10.11

DIPOLE SAR TARGET - HEAD

Date: 05/10/11 Frequency (MHz): 300
 Lab Location: PG-EMS Mixture Type: IEEE Head
 DAE Serial #: 374 Ambient Temp.(°C): 21.7

Tissue Characteristics
 Permittivity: 45.2 Phantom Type/SN: ELI4 1028
 Conductivity: 0.83 Distance (mm): 15
 Tissue Temp.(°C): 21.2

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 1004

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

2.85

Difference from Target

-5.26% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **2.70****Passes K=2**

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

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3096	2.62	-3.0%	R2
3122	2.78	3.0%	R2
Average 2.7000 New Measured SAR Value			

(normalized to 1.0 W)

Test performed by: CC Chang, Patrick Saw Initial: CC, 05/10/11
05/10/11

Appendix E
FCC Part 90 (150.8 – 173.4 MHz)
DUT Scans (Shortened Scan and Highest SAR configurations)

Shortened Scan Result (Section 13.15, Table 48)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/1/2011 2:51:16 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110801-09
 Phantom# / Tissue Temp.: ELI4 1028 / 20.6 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0084
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
 Start Power: 6.18 (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: 2.696 mW/g (1g); 1.633 mW/g (10g)

Comments: Shorten scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.9$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 49.4 V/m; Power Drift = -1.12 dB

Motorola Fast SAR: SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.54 mW/g

Maximum value of SAR (interpolated) = 2.35 mW/g

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

Reference Value = 49.4 V/m; Power Drift = -1.24 dB

Peak SAR (extrapolated) = 2.42 W/kg

Motorola Fast SAR: SAR(1 g) = 2.2 mW/g; SAR(10 g) = 1.46 mW/g

Maximum value of SAR (interpolated) = 2.42 mW/g

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

Reference Value = 63.9 V/m; Power Drift = -0.903 dB

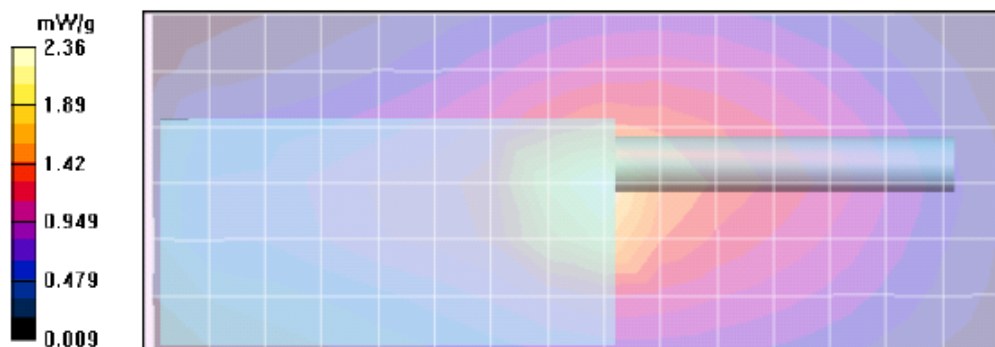
Peak SAR (extrapolated) = 5.39 W/kg

SAR(1 g) = 2.68 mW/g; SAR(10 g) = 1.63 mW/g

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

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

Maximum value of SAR (measured) = 2.36 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 6 minutes.

Representative full scan run time was 20 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 1.66 mW/g; 10-g Avg. = 1.01 mW/g.

Zoom scan max calculated SAR using SAR drift (see part 1 section 13.2): 1-g Avg. = 1.61 mW/g; 10-g Avg. = 0.95 mW/g.

Section 13.2 Table 13

Body - Highest SAR Configuration Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/16/2011 2:11:45 PM

Robot# / Run#: DASY4-PG-1 / Lee-AB-110716-07
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
 Start Power: 6.16 (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: 2.384 mW/g (1g); 1.402 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.8$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 48.6 V/m; Power Drift = -1.10 dB

Motorola Fast SAR: SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.67 mW/g

Maximum value of SAR (interpolated) = 2.61 mW/g

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

Reference Value = 48.6 V/m; Power Drift = -1.21 dB

Peak SAR (extrapolated) = 2.66 W/kg

Motorola Fast SAR: SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.57 mW/g

Maximum value of SAR (interpolated) = 2.66 mW/g

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

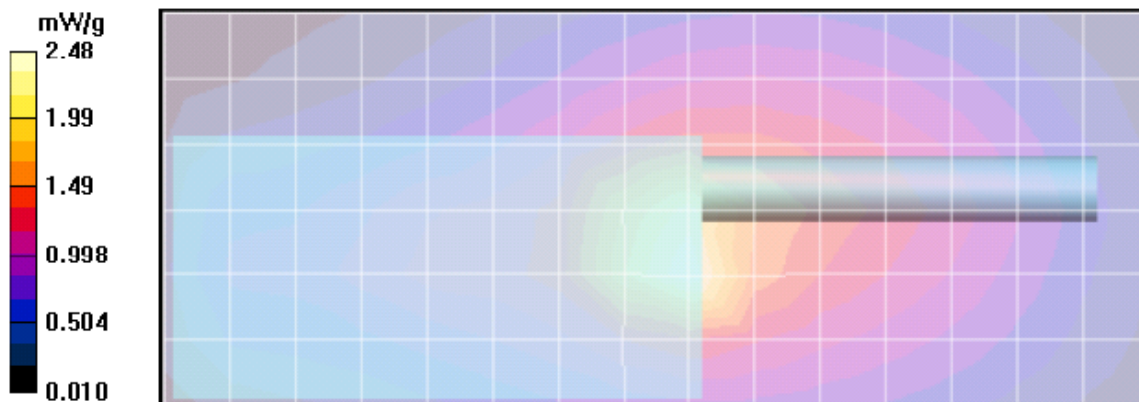
Reference Value = 48.6 V/m; Power Drift = -1.31 dB

Peak SAR (extrapolated) = 5.02 W/kg

SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.4 mW/g

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

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



Section 13.15 Table 42

Face - Highest SAR Configuration Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/22/2011 1:58:42 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-110722-08
 Phantom# / Tissue Temp.: ELI4 1028 / 21.4 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: NONE / NONE
 Start Power: 6.18 (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: 1.929 mW/g (1g); 1.440 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 53.6 V/m; Power Drift = -0.387 dB

Motorola Fast SAR: SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (interpolated) = 2.17 mW/g

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

Reference Value = 53.6 V/m; Power Drift = -0.460 dB

Peak SAR (extrapolated) = 2.05 W/kg

Motorola Fast SAR: SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.48 mW/g

Maximum value of SAR (interpolated) = 2.05 mW/g

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

Reference Value = 53.6 V/m; Power Drift = -0.615 dB

Peak SAR (extrapolated) = 2.68 W/kg

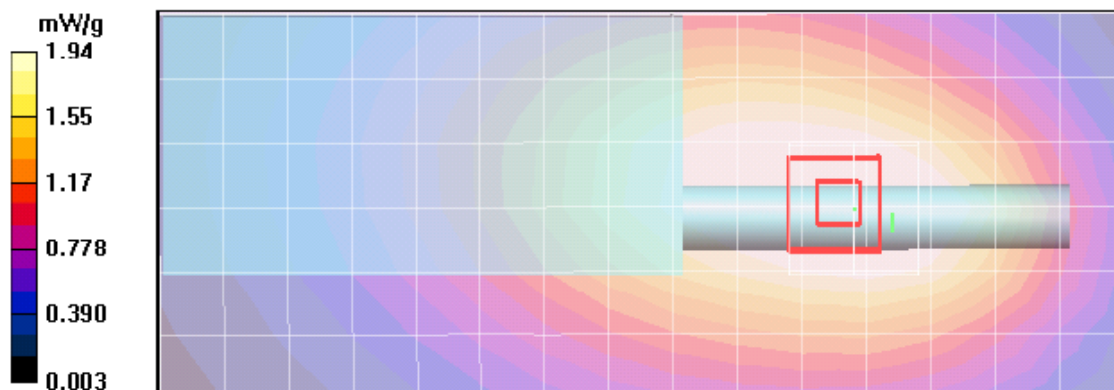
SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.44 mW/g

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

Maximum value of SAR (measured) = 2.01 mW/g

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

Maximum value of SAR (measured) = 1.94 mW/g



Appendix F
DUT Scans - FCC Part 90 (150.8 – 173.4 MHz)

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

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/16/2011 2:11:45 PM

Robot# / Run#: DASY4-PG-1 / Lee-AB-110716-07
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
Start Power: 6.16 (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: 2.384 mW/g (1g); 1.402 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)
Electronics: DAE3 Sn374, Calibrated: 2/23/2011
Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.8$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 48.6 V/m; Power Drift = -1.10 dB

Motorola Fast SAR: SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.67 mW/g

Maximum value of SAR (interpolated) = 2.61 mW/g

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

Reference Value = 48.6 V/m; Power Drift = -1.21 dB

Peak SAR (extrapolated) = 2.66 W/kg

Motorola Fast SAR: SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.57 mW/g

Maximum value of SAR (interpolated) = 2.66 mW/g

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

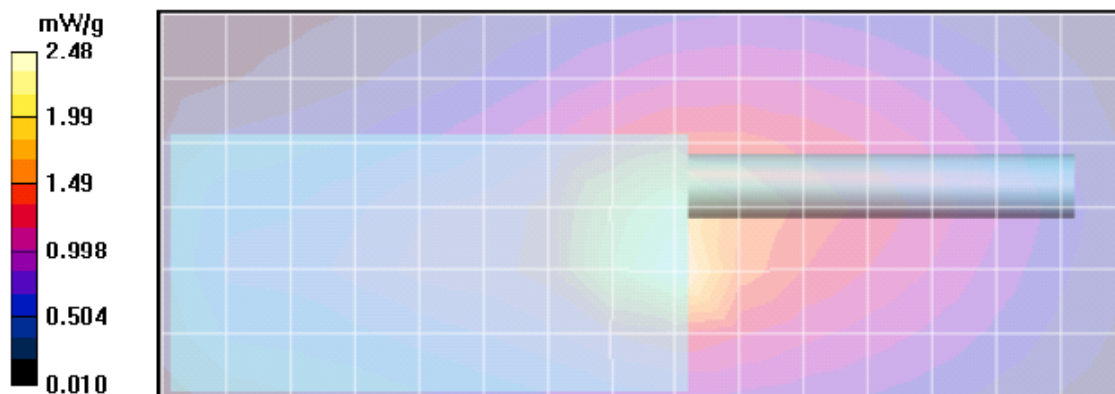
Reference Value = 48.6 V/m; Power Drift = -1.31 dB

Peak SAR (extrapolated) = 5.02 W/kg

SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.4 mW/g

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

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



Section 13.2 Table 14

Assessments at the Body with Body worn PMLN4651A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/16/2011 3:04:57 PM

Robot# / Run#: DASY4-PG-1 / Lee-AB-110716-08
 Phantom# / Tissue Temp.: ELI4 1103 / 20.6 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
 Start Power: 6.01 (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: 2.122 mW/g (1g); 1.172 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.8$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 38.8 V/m; Power Drift = -0.638 dB

Motorola Fast SAR: SAR(1 g) = 1.93 mW/g; SAR(10 g) = 1.33 mW/g

Maximum value of SAR (interpolated) = 2.14 mW/g

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

Reference Value = 38.8 V/m; Power Drift = -0.720 dB

Peak SAR (extrapolated) = 2.36 W/kg

Motorola Fast SAR: SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.34 mW/g

Maximum value of SAR (interpolated) = 2.36 mW/g

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

Reference Value = 38.8 V/m; Power Drift = -0.831 dB

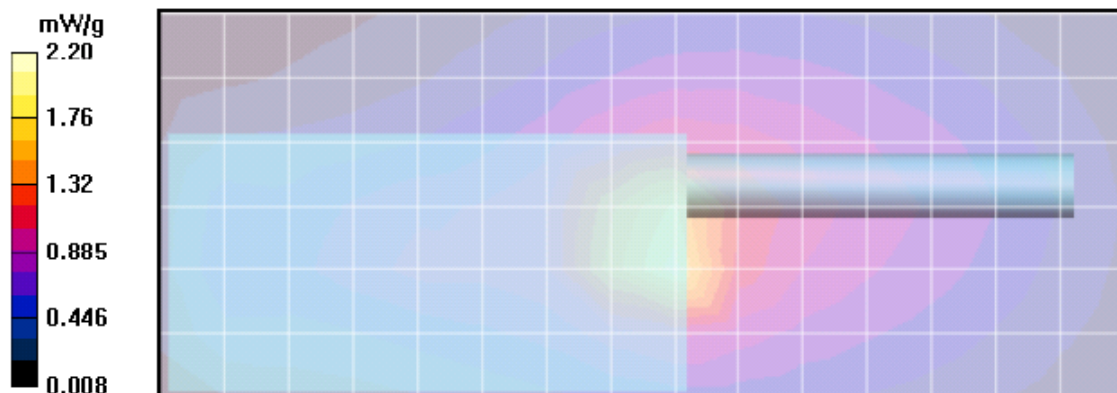
Peak SAR (extrapolated) = 4.94 W/kg

SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.17 mW/g

Maximum value of SAR (measured) = 2.24 mW/g

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

Maximum value of SAR (measured) = 2.20 mW/g



Section 13.3 Table 15

Assessments at the Body with Body worn PMLN7008A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/17/2011 9:09:20 AM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110717-04
Phantom# / Tissue Temp.: ELI4 1103 / 21.3 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN7008A / PMLN5727A
Start Power: 6.06 (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: 2.522 mW/g (1g); 1.421 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.5$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 43.3 V/m; Power Drift = -0.236 dB

Motorola Fast SAR: SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (interpolated) = 2.51 mW/g

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

Reference Value = 43.3 V/m; Power Drift = -0.298 dB

Peak SAR (extrapolated) = 2.84 W/kg

Motorola Fast SAR: SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.62 mW/g

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

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

Reference Value = 43.3 V/m; Power Drift = -0.407 dB

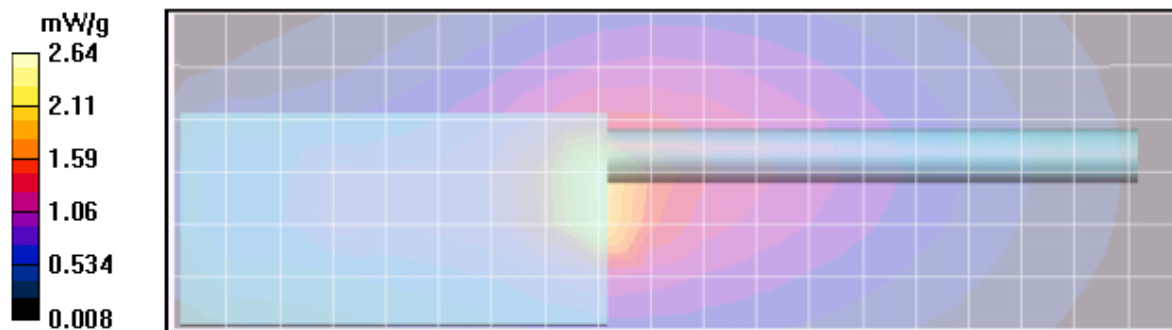
Peak SAR (extrapolated) = 5.79 W/kg

SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.42 mW/g

Maximum value of SAR (measured) = 2.72 mW/g

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

Maximum value of SAR (measured) = 2.64 mW/g



Section 13.3 Table 16

Assessments at the Body with Body worn PMLN7008A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/17/2011 12:09:46 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110717-09
 Phantom# / Tissue Temp.: ELI4 1103 / 21.1 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN7008A / PMLN5727A
 Start Power: 5.97 (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: 2.592 mW/g (1g); 1.512 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.5$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 45.8 V/m; Power Drift = -0.235 dB

Motorola Fast SAR: SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.63 mW/g

Maximum value of SAR (interpolated) = 2.58 mW/g

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

Reference Value = 45.8 V/m; Power Drift = -0.278 dB

Peak SAR (extrapolated) = 2.91 W/kg

Motorola Fast SAR: SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.69 mW/g

Maximum value of SAR (interpolated) = 2.91 mW/g

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

Reference Value = 45.8 V/m; Power Drift = -0.358 dB

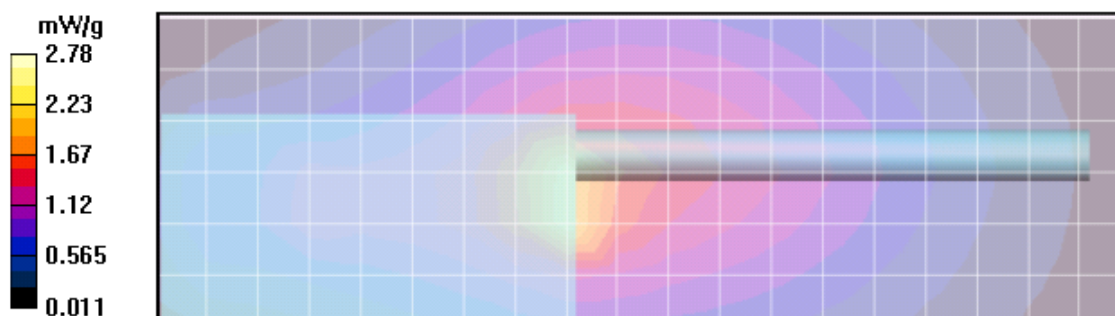
Peak SAR (extrapolated) = 5.66 W/kg

SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (measured) = 2.77 mW/g

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

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



Section 13.4 Table 17
Assessments at the body with Body worn PMLN5863A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/18/2011 9:07:33 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-110718-04
 Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: PMLN5863A / PMLN5727A
 Start Power: 6.09 (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: 1.443 mW/g (1g); 0.910 mW/g (10g)

Comments: Full scan. Volume 2D & Zoom scan using Extents=45mm, Offsets=-22.5mm.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 60.4$; $\rho = 1000 \text{ kg/m}^3$

Ab Scan/1-Area Scan (61x191x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 34.0 V/m; Power Drift = -0.259 dB

Motorola Fast SAR: SAR(1 g) = 1.86 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (interpolated) = 2.07 mW/g

Ab Scan/2-Volume 2D Scan (61x61x1): Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=1\text{mm}$

Reference Value = 34.0 V/m; Power Drift = -0.324 dB

Peak SAR (extrapolated) = 1.67 W/kg

Motorola Fast SAR: SAR(1 g) = 1.48 mW/g; SAR(10 g) = 1.1 mW/g

Maximum value of SAR (interpolated) = 1.67 mW/g

Ab Scan/3-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.0 V/m; Power Drift = -0.528 dB

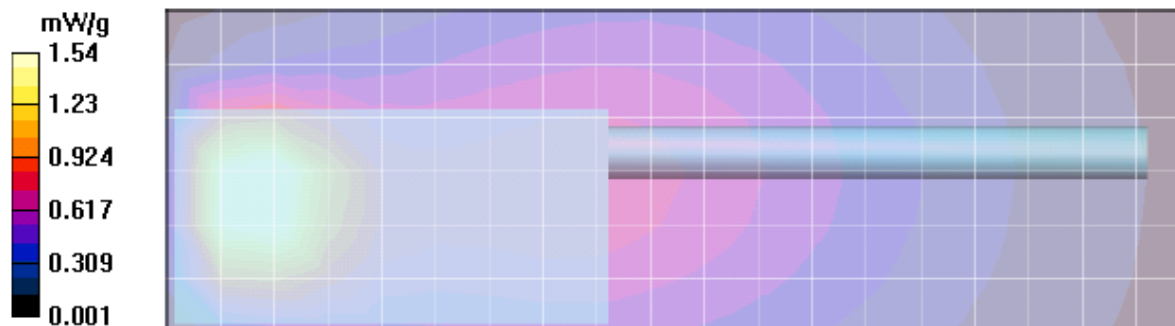
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.910 mW/g

Maximum value of SAR (measured) = 1.57 mW/g

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) = 1.54 mW/g



Section 13.4 Table 18

Assessment at the Body with Body worn PMLN5863A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/18/2011 4:35:32 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110718-12
 Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4415A
 Carry Acc. / Cable Acc.: PMLN5863A / PMLN5727A
 Start Power: 6.04 (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: 1.794 mW/g (1g); 1.091 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.4$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 33.0 V/m; Power Drift = -0.475 dB

Motorola Fast SAR: SAR(1 g) = 2.13 mW/g; SAR(10 g) = 1.47 mW/g

Maximum value of SAR (interpolated) = 2.35 mW/g

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

Reference Value = 33.0 V/m; Power Drift = -0.508 dB

Peak SAR (extrapolated) = 1.95 W/kg

Motorola Fast SAR: SAR(1 g) = 1.8 mW/g; SAR(10 g) = 1.33 mW/g

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

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

Reference Value = 33.0 V/m; Power Drift = -0.584 dB

Peak SAR (extrapolated) = 3.64 W/kg

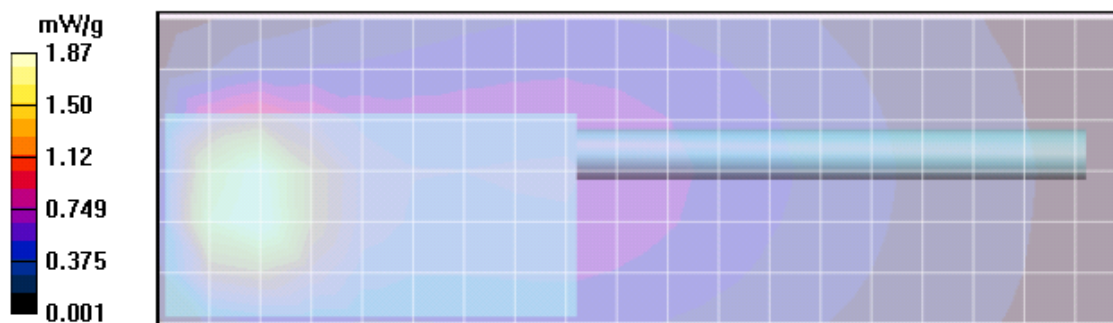
SAR(1 g) = 1.79 mW/g; SAR(10 g) = 1.09 mW/g

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

Maximum value of SAR (measured) = 1.84 mW/g

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

Maximum value of SAR (measured) = 1.87 mW/g



Section 13.5 Table 19

Assessment at the Body with Body worn PMLN5865A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/18/2011 6:11:39 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110718-14
Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4117A / 152.500 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN5865A / PMLN5727A
Start Power: 6.15 (W)

Note:

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

Reported SAR: 0.577 mW/g (1g); 0.456 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.3$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 28.2 V/m; Power Drift = -0.380 dB

Motorola Fast SAR: SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (interpolated) = 0.630 mW/g

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

Reference Value = 28.2 V/m; Power Drift = -0.419 dB

Peak SAR (extrapolated) = 0.605 W/kg

Motorola Fast SAR: SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.441 mW/g

Maximum value of SAR (interpolated) = 0.605 mW/g

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

Reference Value = 28.2 V/m; Power Drift = -0.488 dB

Peak SAR (extrapolated) = 0.744 W/kg

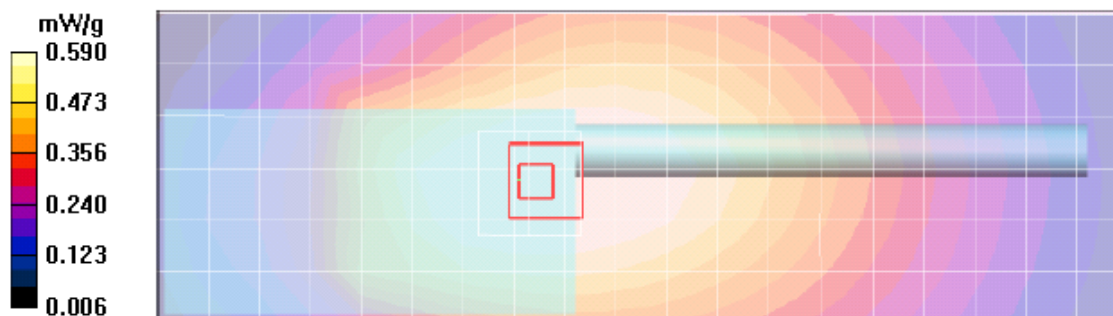
SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.456 mW/g

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

Maximum value of SAR (measured) = 0.598 mW/g

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

Maximum value of SAR (measured) = 0.590 mW/g



Section 13.5 Table 20

Assessment at the Body with Body worn PMLN5865A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/19/2011 9:18:04 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-110719-04
 Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4117A / 152.500 (MHz)
 Battery: PMNN4415A
 Carry Acc. / Cable Acc.: PMLN5865A / PMLN5727A
 Start Power: 5.91 (W)

Note:

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

Reported SAR: 0.438 mW/g (1g); 0.338 mW/g (10g)

Comments: Full scan. Volume 2D & Zoom scan using Extents=45mm, Offsets=-22.5mm.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 25.1 V/m; Power Drift = -0.336 dB

Motorola Fast SAR: SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.343 mW/g

Maximum value of SAR (interpolated) = 0.473 mW/g

Ab Scan/2-Volume 2D Scan (61x61x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 25.1 V/m; Power Drift = -0.390 dB

Peak SAR (extrapolated) = 0.464 W/kg

Motorola Fast SAR: SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (interpolated) = 0.464 mW/g

Ab Scan/3-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.1 V/m; Power Drift = -0.442 dB

Peak SAR (extrapolated) = 0.608 W/kg

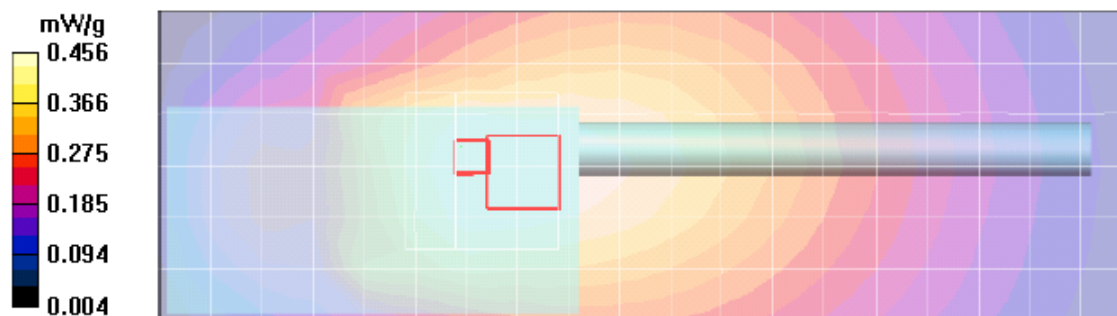
SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.338 mW/g

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

Maximum value of SAR (measured) = 0.455 mW/g

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

Maximum value of SAR (measured) = 0.456 mW/g



Section 13.6 Table 21 Assessment at the Body with Body worn PMLN5869A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/19/2011 2:43:51 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110719-10
Phantom# / Tissue Temp.: ELI4 1103 / 20.6 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN5869A / PMLN5727A
Start Power: 6.17 (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: 1.418 mW/g (1g); 1.072 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.7$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 50.2 V/m; Power Drift = -1.40 dB

Motorola Fast SAR: SAR(1 g) = 1.57 mW/g; SAR(10 g) = 1.19 mW/g

Maximum value of SAR (interpolated) = 1.65 mW/g

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

Reference Value = 50.2 V/m; Power Drift = -1.50 dB

Maximum value of Total (interpolated) = 43.6 V/m

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

Reference Value = 50.2 V/m; Power Drift = -1.64 dB

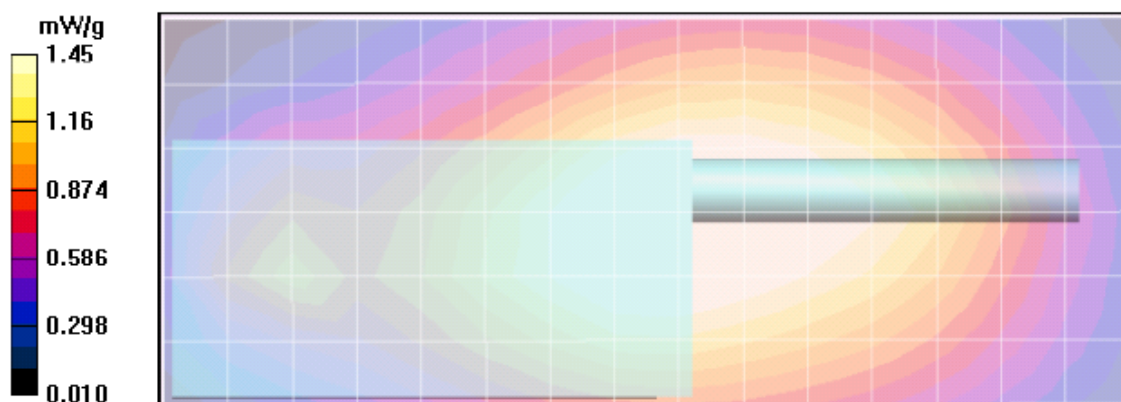
Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 1.07 mW/g

Maximum value of SAR (measured) = 1.47 mW/g

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

Maximum value of SAR (measured) = 1.45 mW/g



Section 13.6 Table 22
Assessment at the Body with Body worn PMLN5869A (additional batteries)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/19/2011 3:35:29 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110719-11
 Phantom# / Tissue Temp.: ELI4 1103 / 20.8 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN5869A / PMLN5727A
 Start Power: 6.04 (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: 1.408 mW/g (1g); 1.062 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 59.7$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 46.3 V/m; Power Drift = -0.888 dB

Motorola Fast SAR: SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.16 mW/g

Maximum value of SAR (interpolated) = 1.61 mW/g

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

Reference Value = 46.3 V/m; Power Drift = -0.990 dB

Peak SAR (extrapolated) = 1.51 W/kg

Motorola Fast SAR: SAR(1 g) = 1.44 mW/g; SAR(10 g) = 1.08 mW/g

Maximum value of SAR (interpolated) = 1.51 mW/g

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

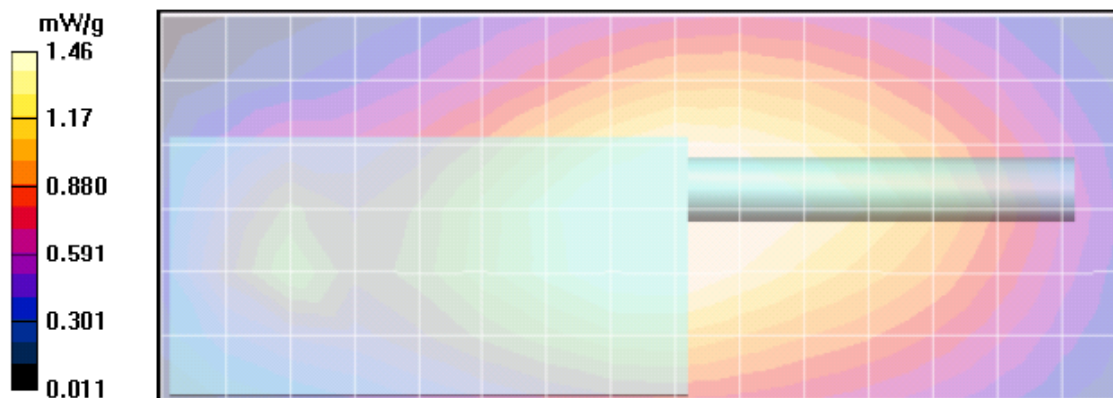
Reference Value = 46.3 V/m; Power Drift = -1.10 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.4 mW/g; SAR(10 g) = 1.06 mW/g

Maximum value of SAR (measured) = 1.46 mW/g

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



Section 13.7 Table 23 Assessment at the Body with Body worn PMLN5867A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/19/2011 8:16:52 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110719-18
Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4117A / 152.500 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN5867A / PMLN5727A
Start Power: 6.09 (W)

Note:

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

Reported SAR: 0.526 mW/g (1g); 0.414 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 27.1 V/m; Power Drift = -0.352 dB

Motorola Fast SAR: SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (interpolated) = 0.570 mW/g

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

Reference Value = 27.1 V/m; Power Drift = -0.387 dB

Peak SAR (extrapolated) = 0.551 W/kg

Motorola Fast SAR: SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.402 mW/g

Maximum value of SAR (interpolated) = 0.551 mW/g

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

Reference Value = 27.1 V/m; Power Drift = -0.467 dB

Peak SAR (extrapolated) = 0.682 W/kg

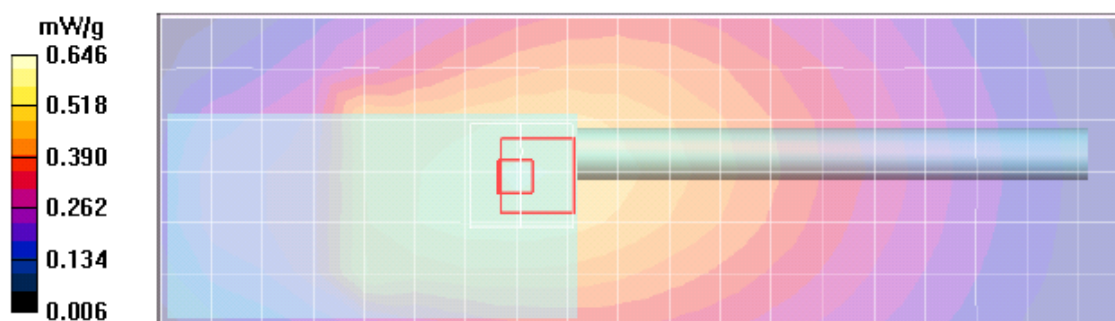
SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.414 mW/g

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

Maximum value of SAR (measured) = 0.543 mW/g

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

Maximum value of SAR (measured) = 0.646 mW/g



Section 13.7 Table 24

Assessment at the Body with Body worn PMLN5867A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/20/2011 10:55:03 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-110720-05
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4117A / 152.500 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN5867A / PMLN5727A
 Start Power: 5.99 (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: 0.533 mW/g (1g); 0.420 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 27.8 V/m; Power Drift = -0.379 dB

Motorola Fast SAR: SAR(1 g) = 0.551 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (interpolated) = 0.575 mW/g

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

Reference Value = 27.8 V/m; Power Drift = -0.420 dB

Peak SAR (extrapolated) = 0.562 W/kg

Motorola Fast SAR: SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (interpolated) = 0.562 mW/g

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

Reference Value = 27.8 V/m; Power Drift = -0.492 dB

Peak SAR (extrapolated) = 0.694 W/kg

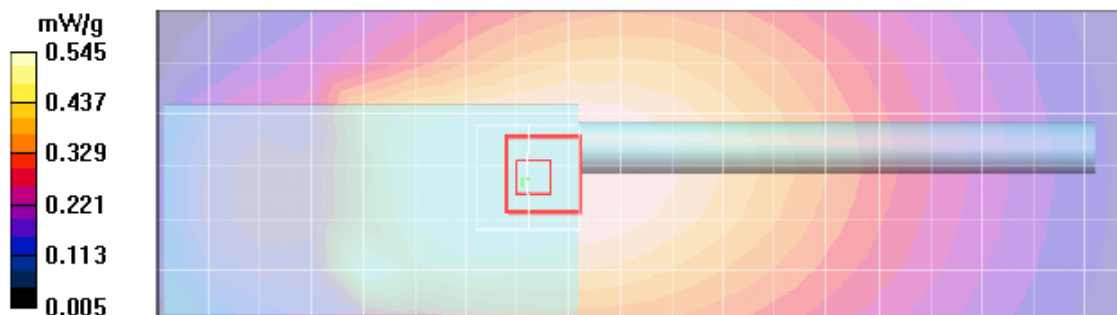
SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.420 mW/g

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

Maximum value of SAR (measured) = 0.550 mW/g

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

Maximum value of SAR (measured) = 0.545 mW/g



Section 13.8 Table 25

Assessment at the Body with Body worn HLN6602A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/20/2011 1:08:16 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110720-08
 Phantom# / Tissue Temp.: ELI4 1103 / 20.8 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: HLN6602A / PMLN5727A
 Start Power: 5.99 (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: 2.200 mW/g (1g); 1.652 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 57.4 V/m; Power Drift = -0.446 dB

Motorola Fast SAR: SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.72 mW/g

Maximum value of SAR (interpolated) = 2.38 mW/g

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

Reference Value = 57.4 V/m; Power Drift = -0.505 dB

Peak SAR (extrapolated) = 2.35 W/kg

Motorola Fast SAR: SAR(1 g) = 2.23 mW/g; SAR(10 g) = 1.68 mW/g

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

Maximum value of SAR (interpolated) = 2.35 mW/g

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

Reference Value = 57.4 V/m; Power Drift = -0.597 dB

Peak SAR (extrapolated) = 3.09 W/kg

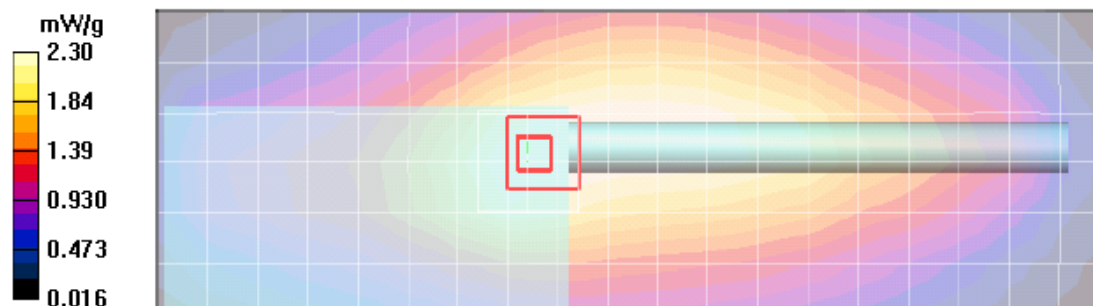
SAR(1 g) = 2.19 mW/g; SAR(10 g) = 1.65 mW/g

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

Maximum value of SAR (measured) = 2.29 mW/g

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

Maximum value of SAR (measured) = 2.30 mW/g



Section 13.8 Table 26

Assessment at the Body with Body worn HLN6602A (additional batteries)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/20/2011 6:37:32 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110720-15
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
Battery: PMNN4417A
Carry Acc. / Cable Acc.: HLN6602A / PMLN5727A
Start Power: 5.99 (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: 2.311 mW/g (1g); 1.732 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)
Electronics: DAE3 Sn374, Calibrated: 2/23/2011
Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 54.8 V/m; Power Drift = -0.281 dB
Motorola Fast SAR: SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.82 mW/g
Maximum value of SAR (interpolated) = 2.56 mW/g

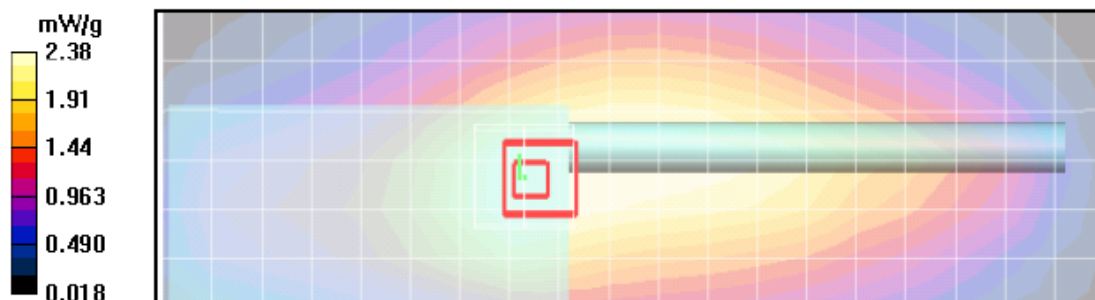
Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm
Reference Value = 54.8 V/m; Power Drift = -0.326 dB
Peak SAR (extrapolated) = 2.45 W/kg
Motorola Fast SAR: SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.75 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (interpolated) = 2.45 mW/g

Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 54.8 V/m; Power Drift = -0.415 dB
Peak SAR (extrapolated) = 3.24 W/kg
SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.73 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 2.41 mW/g

Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.38 mW/g



Section 13.9 Table 27

Assessment at the Body with Body worn RLN4570A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/21/2011 9:17:12 AM

Robot# / Run#: DASY4-PG-1 / PS-AB-110721-04
Phantom# / Tissue Temp.: ELI4 1103 / 20.8 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4118A / 152.500 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: RLN4570A / PMLN5727A
Start Power: 6.05 (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: 2.768 mW/g (1g); 2.081 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.5$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 59.8 V/m; Power Drift = -0.349 dB

Motorola Fast SAR: SAR(1 g) = 2.92 mW/g; SAR(10 g) = 2.2 mW/g

Maximum value of SAR (interpolated) = 3.06 mW/g

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

Reference Value = 59.8 V/m; Power Drift = -0.419 dB

Peak SAR (extrapolated) = 2.96 W/kg

Motorola Fast SAR: SAR(1 g) = 2.82 mW/g; SAR(10 g) = 2.11 mW/g

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

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

Reference Value = 59.8 V/m; Power Drift = -0.515 dB

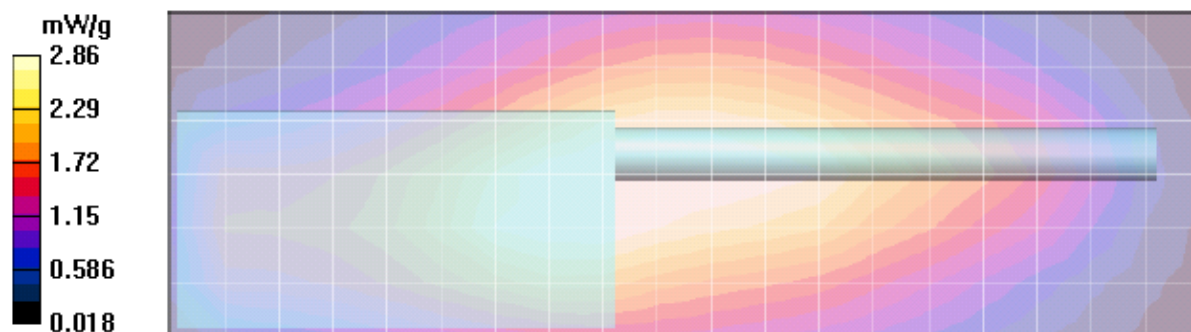
Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 2.76 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 2.89 mW/g

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

Maximum value of SAR (measured) = 2.86 mW/g



Section 13.9 Table 28
Assessment at the Body with Body worn RLN4570A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/21/2011 12:49:28 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110721-07
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4118A / 152.500 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: RLN4570A / PMLN5727A
 Start Power: 6.00 (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: 2.768 mW/g (1g); 2.081 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 152.5$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.5$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 58.5 V/m; Power Drift = -0.288 dB

Motorola Fast SAR: SAR(1 g) = 2.84 mW/g; SAR(10 g) = 2.15 mW/g

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

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

Reference Value = 58.5 V/m; Power Drift = -0.344 dB

Peak SAR (extrapolated) = 2.91 W/kg

Motorola Fast SAR: SAR(1 g) = 2.78 mW/g; SAR(10 g) = 2.09 mW/g

Maximum value of SAR (interpolated) = 2.91 mW/g

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

Reference Value = 58.5 V/m; Power Drift = -0.409 dB

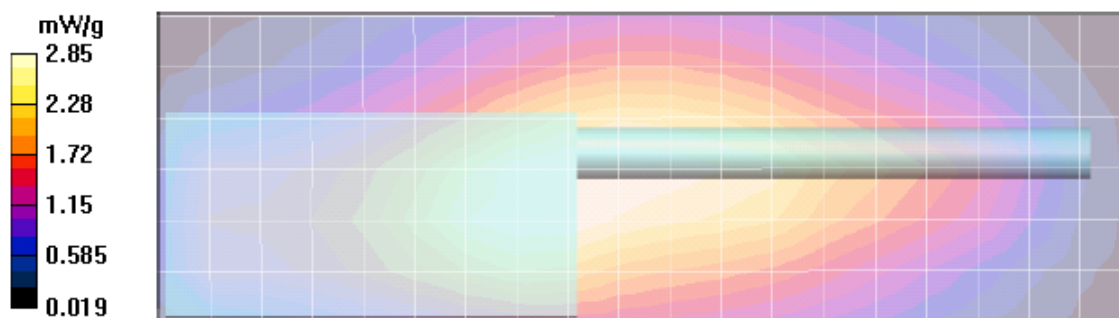
Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.76 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 2.89 mW/g

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

Maximum value of SAR (measured) = 2.85 mW/g



Section 13.10 Table 29

Assessment at the Body with Body worn RLN4815A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/21/2011 6:22:59 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110721-14
 Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: RLN4815A / PMLN5727A
 Start Power: 6.20 (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: 1.096 mW/g (1g); 0.814 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.2$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.8 V/m; Power Drift = -0.671 dB

Motorola Fast SAR: SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.879 mW/g

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

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

Reference Value = 36.8 V/m; Power Drift = -0.764 dB

Peak SAR (extrapolated) = 1.18 W/kg

Motorola Fast SAR: SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.823 mW/g

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

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

Reference Value = 36.8 V/m; Power Drift = -0.877 dB

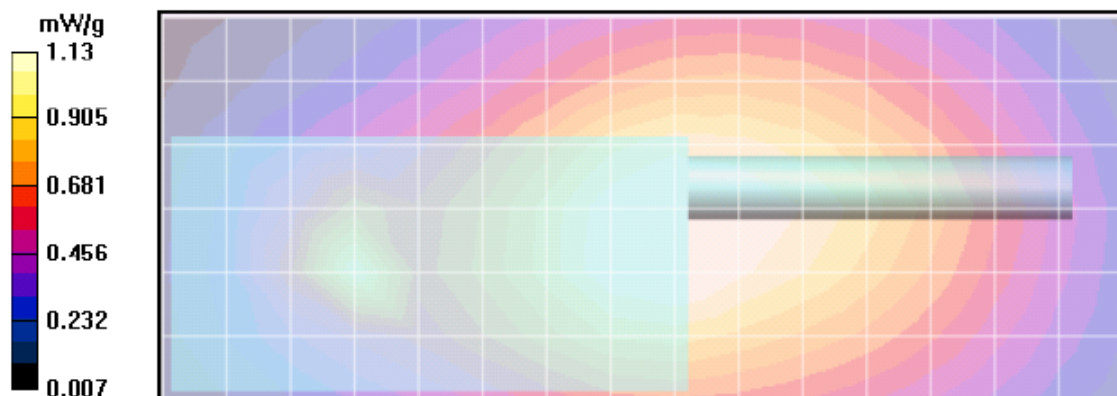
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.813 mW/g

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

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

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



Section 13.10 Table 30

Assessment at the Body with Body worn RLN4815A (additional batteries)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/21/2011 8:07:10 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110721-17
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
Battery: PMNN4415A
Carry Acc. / Cable Acc.: RLN4815A / PMLN5727A
Start Power: 6.00 (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: 1.167 mW/g (1g); 0.513 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.2$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 33.2 V/m; Power Drift = -1.06 dB

Motorola Fast SAR: SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.612 mW/g

Maximum value of SAR (interpolated) = 0.988 mW/g

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

Reference Value = 33.2 V/m; Power Drift = -1.16 dB

Peak SAR (extrapolated) = 1.50 W/kg

Motorola Fast SAR: SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.623 mW/g

Maximum value of SAR (interpolated) = 1.50 mW/g

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

Reference Value = 33.2 V/m; Power Drift = -1.30 dB

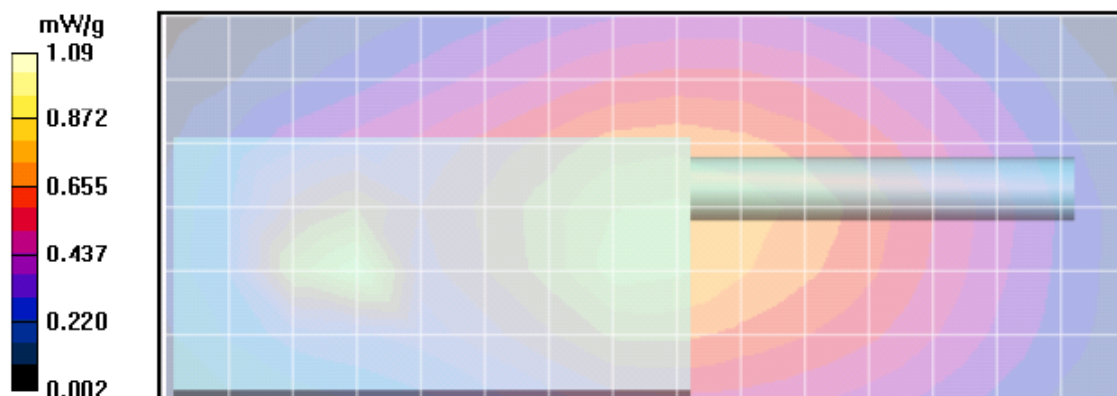
Peak SAR (extrapolated) = 4.00 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.512 mW/g

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

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

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



Section 13.11 Table 31

Assessment of accessory PMLN5863A with carry strap NTN5243A

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/25/2011 12:51:14 PM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110725-02
 Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4416A
 Carry Acc. / Cable Acc.: PMLN5863A w/ NTN5243A / PMLN5727A
 Start Power: 6.01 (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: 1.514 mW/g (1g); 0.933 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 31.3 V/m; Power Drift = -0.273 dB

Motorola Fast SAR: SAR(1 g) = 1.94 mW/g; SAR(10 g) = 1.33 mW/g

Maximum value of SAR (interpolated) = 2.15 mW/g

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

Reference Value = 31.3 V/m; Power Drift = -0.307 dB

Peak SAR (extrapolated) = 1.71 W/kg

Motorola Fast SAR: SAR(1 g) = 1.52 mW/g; SAR(10 g) = 1.13 mW/g

Maximum value of SAR (interpolated) = 1.71 mW/g

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

Reference Value = 31.3 V/m; Power Drift = -0.404 dB

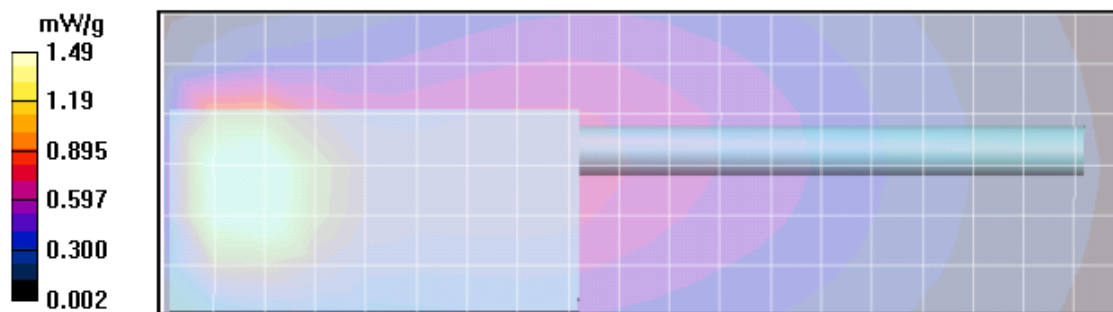
Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 1.51 mW/g; SAR(10 g) = 0.932 mW/g

Maximum value of SAR (measured) = 1.65 mW/g

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

Maximum value of SAR (measured) = 1.49 mW/g



Section 13.11 Table 32

Assessment of accessory PMLN5863A with carry strap NTN5243A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/25/2011 6:29:37 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110725-08
 Phantom# / Tissue Temp.: ELI4 1103 / 20.5 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN5863A w/ NTN5243A / PMLN5727A
 Start Power: 5.95 (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: 1.764 mW/g (1g); 1.101 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 43.6 V/m; Power Drift = -0.217 dB

Motorola Fast SAR: SAR(1 g) = 2.16 mW/g; SAR(10 g) = 1.49 mW/g

Maximum value of SAR (interpolated) = 2.38 mW/g

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

Reference Value = 43.6 V/m; Power Drift = -0.330 dB

Peak SAR (extrapolated) = 1.99 W/kg

Motorola Fast SAR: SAR(1 g) = 1.82 mW/g; SAR(10 g) = 1.36 mW/g

Maximum value of SAR (interpolated) = 1.99 mW/g

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

Reference Value = 43.6 V/m; Power Drift = -0.403 dB

Peak SAR (extrapolated) = 3.62 W/kg

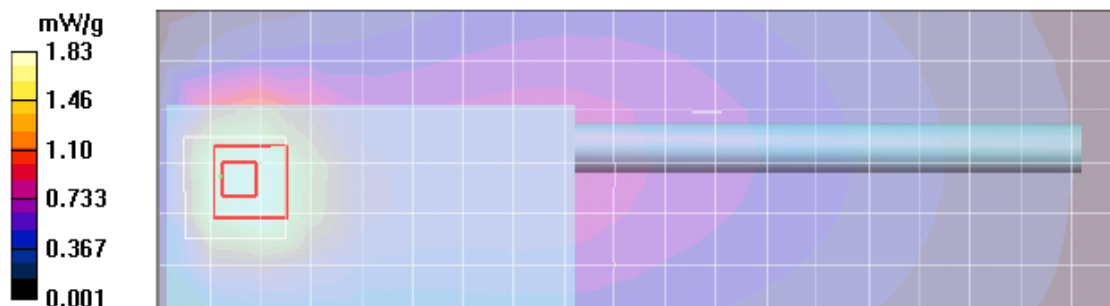
SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.1 mW/g

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

Maximum value of SAR (measured) = 1.85 mW/g

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

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



Section 13.12 Table 33

Assessment of accessory PMLN5865A with carry strap NTN5243A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/26/2011 7:59:51 AM

Robot# / Run#: DASY4-PG-1 / CcC-AB-110726-03
Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN5865A w/ NTN5243A / PMLN5727A
Start Power: 6.02 (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: 1.587 mW/g (1g); 0.867 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.6$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 36.5 V/m; Power Drift = -0.268 dB

Motorola Fast SAR: SAR(1 g) = 1.58 mW/g; SAR(10 g) = 1.05 mW/g

Maximum value of SAR (interpolated) = 1.76 mW/g

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

Reference Value = 36.5 V/m; Power Drift = -0.307 dB

Peak SAR (extrapolated) = 1.84 W/kg

Motorola Fast SAR: SAR(1 g) = 1.58 mW/g; SAR(10 g) = 1.04 mW/g

Maximum value of SAR (interpolated) = 1.84 mW/g

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

Reference Value = 36.5 V/m; Power Drift = -0.420 dB

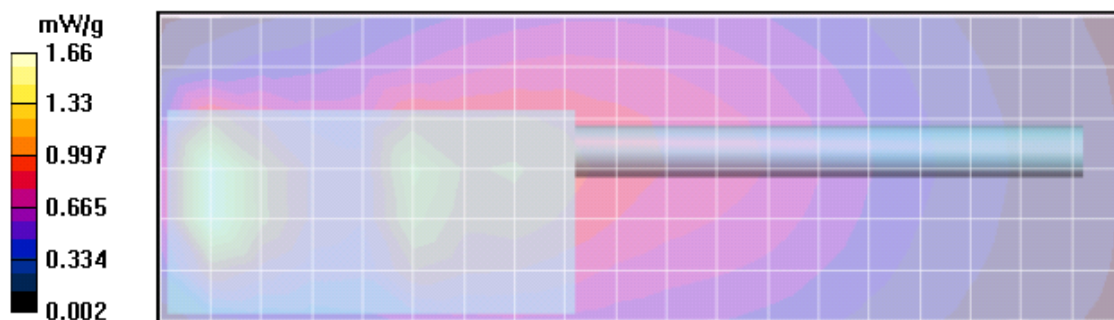
Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 1.58 mW/g; SAR(10 g) = 0.866 mW/g

Maximum value of SAR (measured) = 1.63 mW/g

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

Maximum value of SAR (measured) = 1.66 mW/g



Section 13.12 Table 34
Assessment of accessory PMLN5865A with carry strap NTN5243A (additional batteries)

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/26/2011 4:51:52 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110726-12
 Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4116A / 150.800 (MHz)
 Battery: PMNN4415A
 Carry Acc. / Cable Acc.: PMLN5865A w/ NTN5243A / PMLN5727A
 Start Power: 5.93 (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: 1.989 mW/g (1g); 1.041 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)
 Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used: $f = 150.8$ MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 60.6$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.9 V/m; Power Drift = -0.476 dB

Motorola Fast SAR: SAR(1 g) = 2.09 mW/g; SAR(10 g) = 1.36 mW/g

Maximum value of SAR (interpolated) = 2.41 mW/g

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

Reference Value = 34.9 V/m; Power Drift = -0.513 dB

Peak SAR (extrapolated) = 2.22 W/kg

Motorola Fast SAR: SAR(1 g) = 1.97 mW/g; SAR(10 g) = 1.29 mW/g

Maximum value of SAR (interpolated) = 2.22 mW/g

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

Reference Value = 34.9 V/m; Power Drift = -0.553 dB

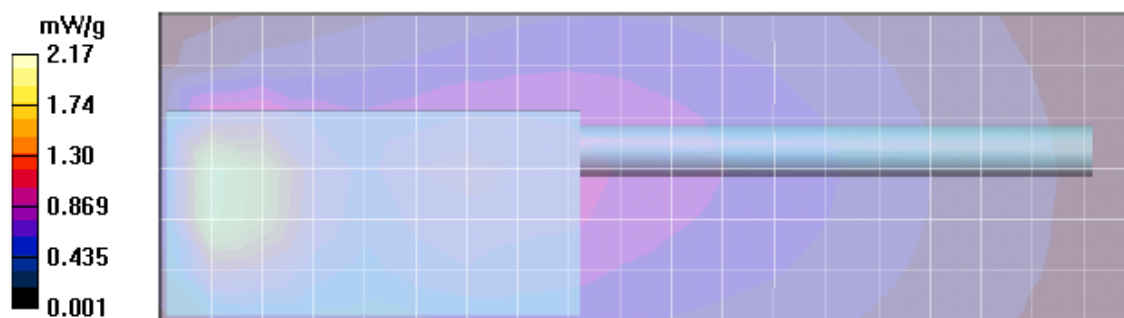
Peak SAR (extrapolated) = 4.88 W/kg

SAR(1 g) = 1.98 mW/g; SAR(10 g) = 1.04 mW/g

Maximum value of SAR (measured) = 2.16 mW/g

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

Maximum value of SAR (measured) = 2.17 mW/g



Section 13.13 Table 35

Assessment of accessory PMLN5869A with carry strap NTN5243A

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/27/2011 4:17:39 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110727-12
Phantom# / Tissue Temp.: ELI4 1103 / 20.4 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN5869A w/ NTN5243A / PMLN5727A
Start Power: 6.13 (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: 1.250 mW/g (1g); 0.914 mW/g (10g)

Comments: Full scan. Reduce the area scan to hotspot only.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.82$ mho/m; $\epsilon_r = 60.4$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 44.1 V/m; Power Drift = -1.22 dB

Motorola Fast SAR: SAR(1 g) = 1.42 mW/g; SAR(10 g) = 1.06 mW/g

Maximum value of SAR (interpolated) = 1.50 mW/g

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

Reference Value = 44.1 V/m; Power Drift = -1.38 dB

Peak SAR (extrapolated) = 1.37 W/kg

Motorola Fast SAR: SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.952 mW/g

Maximum value of SAR (interpolated) = 1.37 mW/g

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

Reference Value = 44.1 V/m; Power Drift = -1.56 dB

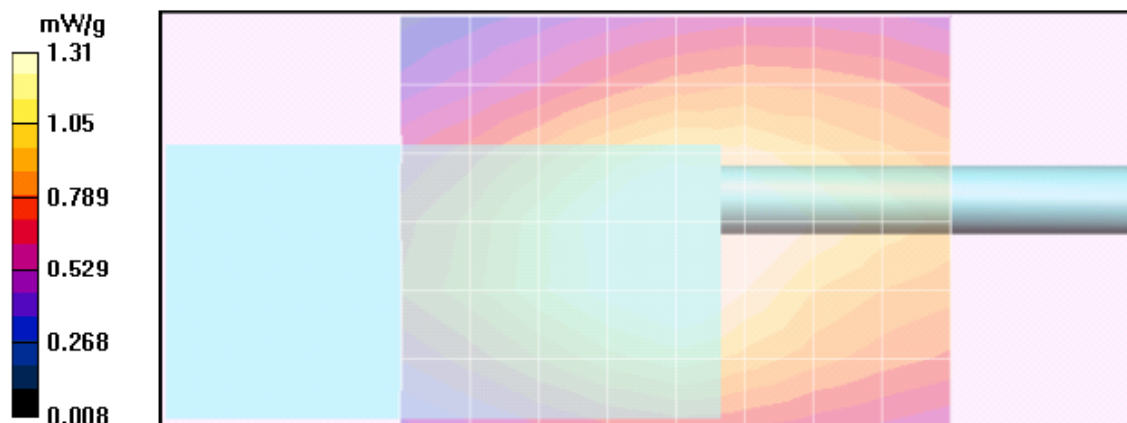
Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.914 mW/g

Maximum value of SAR (measured) = 1.29 mW/g

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

Maximum value of SAR (measured) = 1.31 mW/g



Section 13.13 Table 36
Assessment of accessory PMLN5869A with carry strap NTN5243A (additional batteries)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/27/2011 5:01:18 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110727-13
 Phantom# / Tissue Temp.: ELI4 1103 / 20.5 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: PMLN5869A w/ NTN5243A / PMLN5727A
 Start Power: 5.99 (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: 1.310 mW/g (1g); 0.963 mW/g (10g)

Comments: Full scan. Reduce the area scan to hotspot only.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.82$ mho/m; $\epsilon_r = 60.4$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 45.9 V/m; Power Drift = -1.22 dB

Motorola Fast SAR: SAR(1 g) = 1.54 mW/g; SAR(10 g) = 1.14 mW/g

Maximum value of SAR (interpolated) = 1.63 mW/g

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

Reference Value = 45.9 V/m; Power Drift = -1.40 dB

Peak SAR (extrapolated) = 1.45 W/kg

Motorola Fast SAR: SAR(1 g) = 1.37 mW/g; SAR(10 g) = 1.01 mW/g

Maximum value of SAR (interpolated) = 1.45 mW/g

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

Reference Value = 45.9 V/m; Power Drift = -1.58 dB

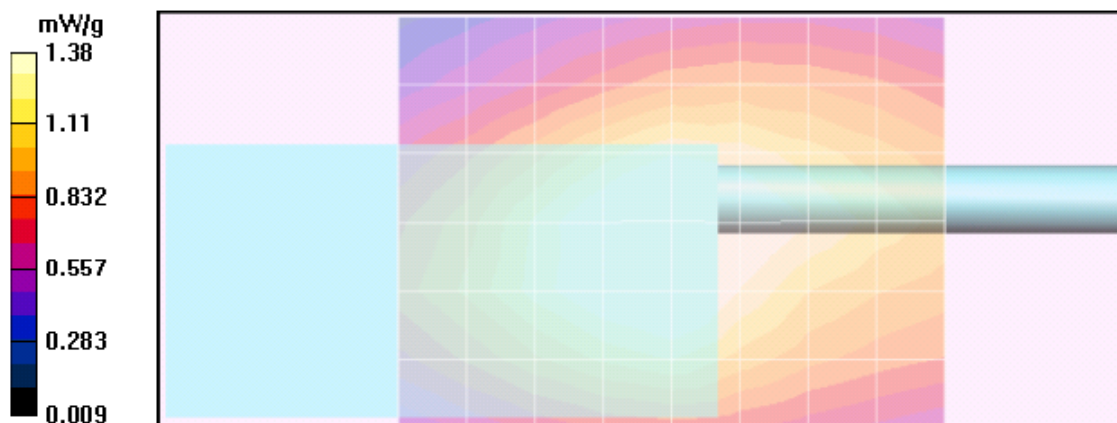
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.963 mW/g

Maximum value of SAR (measured) = 1.37 mW/g

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

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



Section 13.16 Table 42
Assessment at the Face
Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/22/2011 1:58:42 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-110722-08
Phantom# / Tissue Temp.: ELI4 1028 / 21.4 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: NONE / NONE
Start Power: 6.18 (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: 1.929 mW/g (1g); 1.440 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 53.6 V/m; Power Drift = -0.387 dB

Motorola Fast SAR: SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.56 mW/g

Maximum value of SAR (interpolated) = 2.17 mW/g

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

Reference Value = 53.6 V/m; Power Drift = -0.460 dB

Peak SAR (extrapolated) = 2.05 W/kg

Motorola Fast SAR: SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.48 mW/g

Maximum value of SAR (interpolated) = 2.05 mW/g

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

Reference Value = 53.6 V/m; Power Drift = -0.615 dB

Peak SAR (extrapolated) = 2.68 W/kg

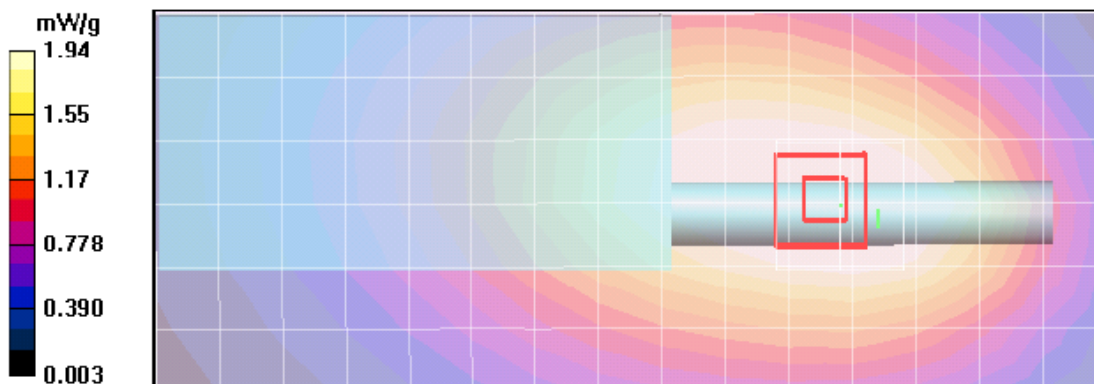
SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.44 mW/g

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

Maximum value of SAR (measured) = 2.01 mW/g

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

Maximum value of SAR (measured) = 1.94 mW/g



Section 13.16 Table 43
Assessment at the Face (additional batteries)
Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/22/2011 3:01:27 PM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-110722-10
 Phantom# / Tissue Temp.: ELI4 1028 / 21.2 (C)
 DUT Model# / Serial#: PMUD2627A / 867TMM0080
 Antenna / TX Freq.: PMAD4121A / 167.000 (MHz)
 Battery: PMNN4417A
 Carry Acc. / Cable Acc.: NONE / NONE
 Start Power: 6.00 (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: 1.899 mW/g (1g); 1.410 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 167$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 52.4 V/m; Power Drift = -0.276 dB

Motorola Fast SAR: SAR(1 g) = 2 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (interpolated) = 2.11 mW/g

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

Reference Value = 52.4 V/m; Power Drift = -0.342 dB

Peak SAR (extrapolated) = 2.01 W/kg

Motorola Fast SAR: SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.45 mW/g

Maximum value of SAR (interpolated) = 2.01 mW/g

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

Reference Value = 52.4 V/m; Power Drift = -0.468 dB

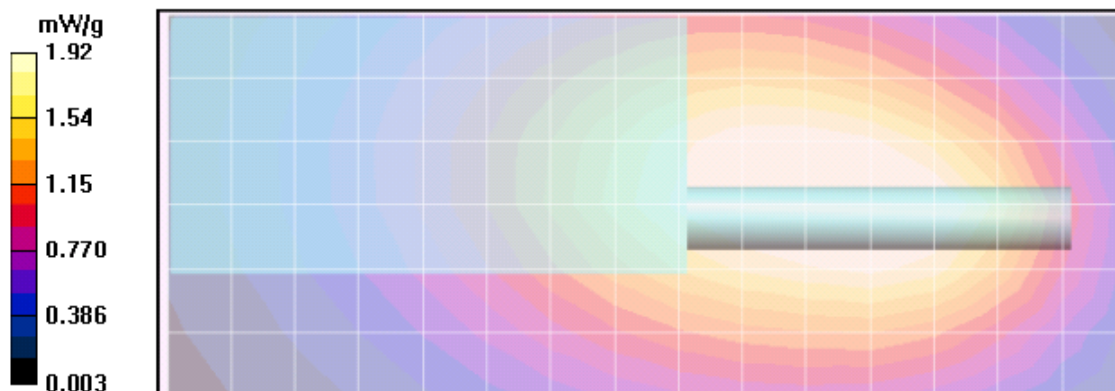
Peak SAR (extrapolated) = 2.64 W/kg

SAR(1 g) = 1.89 mW/g; SAR(10 g) = 1.41 mW/g

Maximum value of SAR (measured) = 1.97 mW/g

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

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



APPENDIX G
DUT Scans Outside Part 90 (136 – 174 MHz)
Data enclosed for this appendix is not applicable for FCC part 90

Section 13.15 Table 37 Outside FCC Part 90 at the body

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/27/2011 8:06:50 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110727-18
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4116A / 146.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
Start Power: 5.91 (W)

Note:

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

Reported SAR: 2.530 mW/g (1g); 1.460 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 146$ MHz; $\sigma = 0.81$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 41.8 V/m; Power Drift = -0.419 dB

Motorola Fast SAR: SAR(1 g) = 2.38 mW/g; SAR(10 g) = 1.65 mW/g

Maximum value of SAR (interpolated) = 2.65 mW/g

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

Reference Value = 41.8 V/m; Power Drift = -0.467 dB

Peak SAR (extrapolated) = 2.88 W/kg

Motorola Fast SAR: SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.66 mW/g

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

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

Reference Value = 41.8 V/m; Power Drift = -0.569 dB

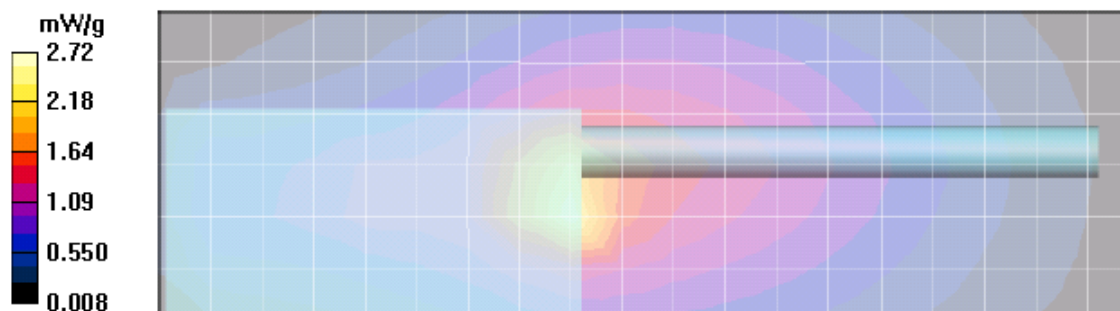
Peak SAR (extrapolated) = 5.62 W/kg

SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.46 mW/g

Maximum value of SAR (measured) = 2.69 mW/g

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

Maximum value of SAR (measured) = 2.72 mW/g



Section 13.15 Table 38 Outside FCC Part 90 at the body

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/28/2011 3:35:59 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110728-03
Phantom# / Tissue Temp.: ELI4 1103 / 20.9 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4117A / 141.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
Start Power: 5.88 (W)

Note:

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

Reported SAR: 2.832 mW/g (1g); 1.620 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 141$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 61$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 44.4 V/m; Power Drift = -0.304 dB

Motorola Fast SAR: SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.79 mW/g

Maximum value of SAR (interpolated) = 2.89 mW/g

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

Reference Value = 44.4 V/m; Power Drift = -0.341 dB

Peak SAR (extrapolated) = 3.18 W/kg

Motorola Fast SAR: SAR(1 g) = 2.85 mW/g; SAR(10 g) = 1.83 mW/g

Maximum value of SAR (interpolated) = 3.18 mW/g

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

Reference Value = 44.4 V/m; Power Drift = -0.432 dB

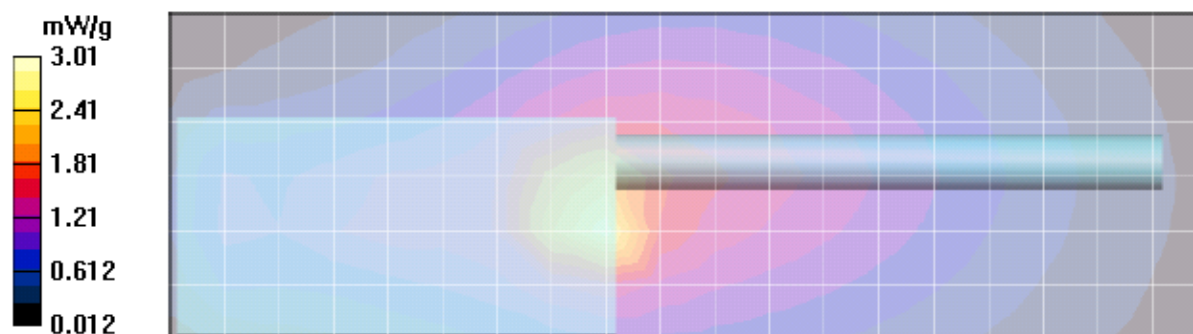
Peak SAR (extrapolated) = 6.43 W/kg

SAR(1 g) = 2.83 mW/g; SAR(10 g) = 1.62 mW/g

Maximum value of SAR (measured) = 3.03 mW/g

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

Maximum value of SAR (measured) = 3.01 mW/g



Section 13.15 Table 39 Outside FCC Part 90 at the body

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/28/2011 5:51:02 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110728-07
Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4120A / 148.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
Start Power: 5.88 (W)

Note:

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

Reported SAR: 1.904 mW/g (1g); 1.100 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 148$ MHz; $\sigma = 0.79$ mho/m; $\epsilon_r = 60.8$; $\rho = 1000$ kg/m³

Ab Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 39.5 V/m; Power Drift = -0.498 dB

Motorola Fast SAR: SAR(1 g) = 1.76 mW/g; SAR(10 g) = 1.22 mW/g

Maximum value of SAR (interpolated) = 1.94 mW/g

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

Reference Value = 39.5 V/m; Power Drift = -0.576 dB

Peak SAR (extrapolated) = 2.15 W/kg

Motorola Fast SAR: SAR(1 g) = 1.93 mW/g; SAR(10 g) = 1.25 mW/g

Maximum value of SAR (interpolated) = 2.15 mW/g

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

Reference Value = 39.5 V/m; Power Drift = -0.707 dB

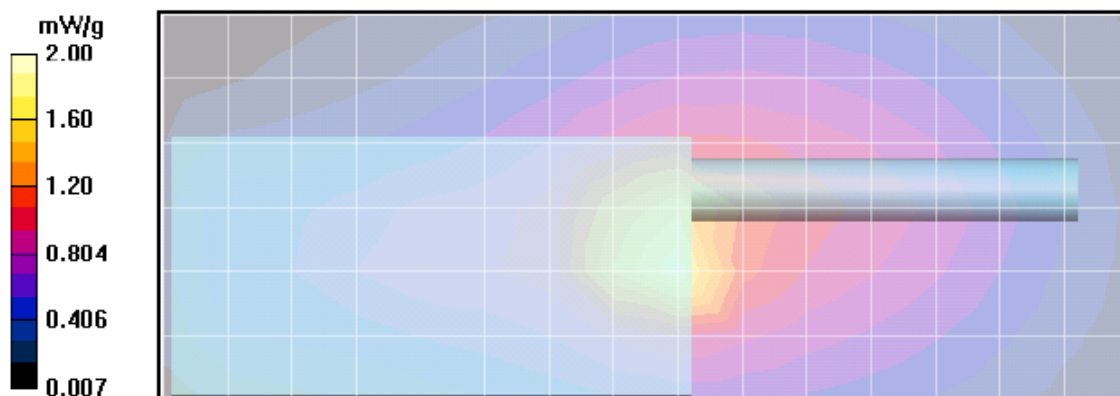
Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 1.9 mW/g; SAR(10 g) = 1.1 mW/g

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

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

Maximum value of SAR (measured) = 2.00 mW/g



Section 13.15 Table 40 Outside FCC Part 90 at the body

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/28/2011 6:52:21 PM

Robot# / Run#: DASY4-PG-1 / PS-AB-110728-09
Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4119A / 141.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: PMLN4651A / PMLN5727A
Start Power: 5.88 (W)

Note:

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

Reported SAR: 2.252 mW/g (1g); 1.280 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(7.8, 7.8, 7.8)

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

Duty Cycle: 1:1, Medium parameters used: $f = 141 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 61$; $\rho = 1000 \text{ kg/m}^3$

Ab Scan/1-Area Scan (61x151x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 44.6 V/m; Power Drift = -0.928 dB

Motorola Fast SAR: SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.51 mW/g

Maximum value of SAR (interpolated) = 2.38 mW/g

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 = 44.6 V/m; Power Drift = -1.03 dB

Peak SAR (extrapolated) = 2.55 W/kg

Motorola Fast SAR: SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.48 mW/g

Maximum value of SAR (interpolated) = 2.55 mW/g

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 = 44.6 V/m; Power Drift = -1.19 dB

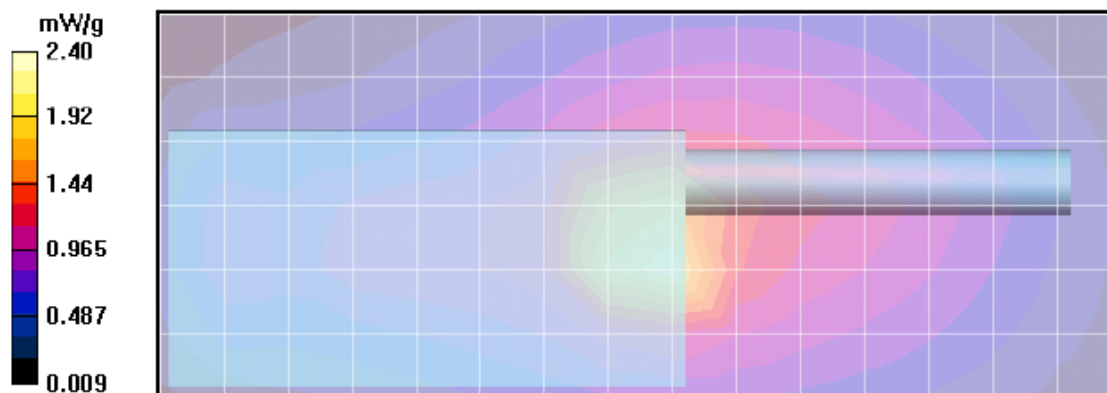
Peak SAR (extrapolated) = 5.14 W/kg

SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.28 mW/g

Maximum value of SAR (measured) = 2.45 mW/g

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) = 2.40 mW/g



Section 13.17 Table 44 Outside FCC Part 90 at the face

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/29/2011 9:13:17 AM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-110729-04
Phantom# / Tissue Temp.: ELI4 1103 / 21.0 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4116A / 148.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: NONE / NONE
Start Power: 5.88 (W)

Note:

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

Reported SAR: 1.528 mW/g (1g); 1.170 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 148$ MHz; $\sigma = 0.73$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 46.3 V/m; Power Drift = -0.196 dB

Motorola Fast SAR: SAR(1 g) = 1.55 mW/g; SAR(10 g) = 1.18 mW/g

Maximum value of SAR (interpolated) = 1.63 mW/g

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

Reference Value = 46.3 V/m; Power Drift = -0.262 dB

Peak SAR (extrapolated) = 1.61 W/kg

Motorola Fast SAR: SAR(1 g) = 1.54 mW/g; SAR(10 g) = 1.17 mW/g

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

Maximum value of SAR (interpolated) = 1.61 mW/g

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

Reference Value = 46.3 V/m; Power Drift = -0.384 dB

Peak SAR (extrapolated) = 2.02 W/kg

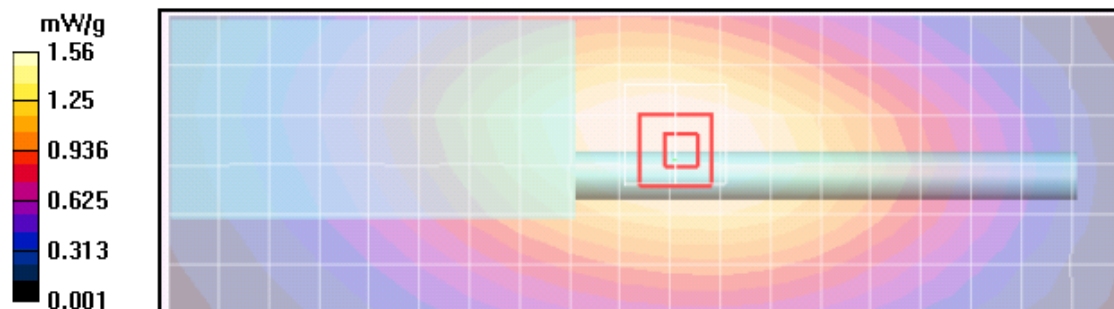
SAR(1 g) = 1.52 mW/g; SAR(10 g) = 1.17 mW/g

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

Maximum value of SAR (measured) = 1.58 mW/g

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

Maximum value of SAR (measured) = 1.56 mW/g



Section 13.17 Table 45 Outside FCC Part 90 at the face

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/29/2011 11:47:29 AM

Robot# / Run#: DASY4-PG-1 / CcC-FACE-110729-07
Phantom# / Tissue Temp.: ELI4 1103 / 21.2 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4117A / 144.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: NONE / NONE
Start Power: 5.89 (W)

Note:

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

Reported SAR: 1.929 mW/g (1g); 1.480 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 144$ MHz; $\sigma = 0.73$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x191x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 54.9 V/m; Power Drift = -0.529 dB

Motorola Fast SAR: SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.54 mW/g

Maximum value of SAR (interpolated) = 2.12 mW/g

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

Reference Value = 54.9 V/m; Power Drift = -0.598 dB

Peak SAR (extrapolated) = 2.05 W/kg

Motorola Fast SAR: SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.49 mW/g

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

Maximum value of SAR (interpolated) = 2.05 mW/g

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

Reference Value = 54.9 V/m; Power Drift = -0.716 dB

Peak SAR (extrapolated) = 2.54 W/kg

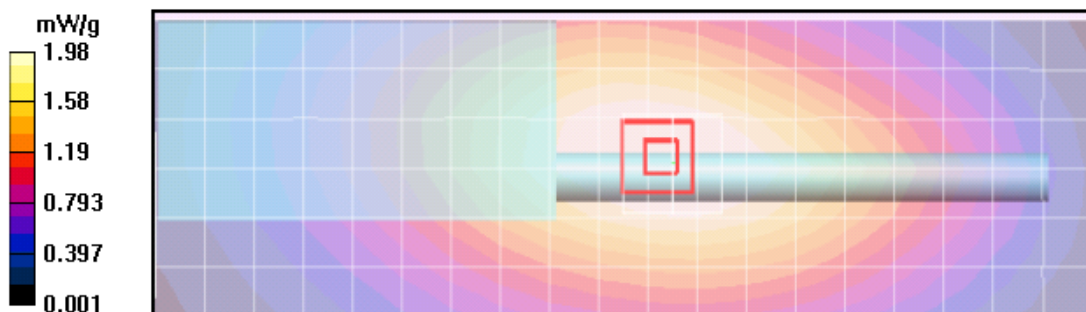
SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.48 mW/g

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

Maximum value of SAR (measured) = 1.99 mW/g

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

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



Section 13.17 Table 46 Outside FCC Part 90 at the face

Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/29/2011 2:17:32 PM

Robot# / Run#: DASY4-PG-1 / PS-FACE-110729-10
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4120A / 148.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: NONE / NONE
Start Power: 5.85 (W)

Note:

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

Reported SAR: 1.236 mW/g (1g); 0.912 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)
Electronics: DAE3 Sn374, Calibrated: 2/23/2011

Duty Cycle: 1:1, Medium parameters used: $f = 148$ MHz; $\sigma = 0.73$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 42.1 V/m; Power Drift = -0.203 dB

Motorola Fast SAR: SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.953 mW/g

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

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

Reference Value = 42.1 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 1.32 W/kg

Motorola Fast SAR: SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.951 mW/g

Maximum value of SAR (interpolated) = 1.32 mW/g

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

Reference Value = 42.1 V/m; Power Drift = -0.286 dB

Peak SAR (extrapolated) = 1.80 W/kg

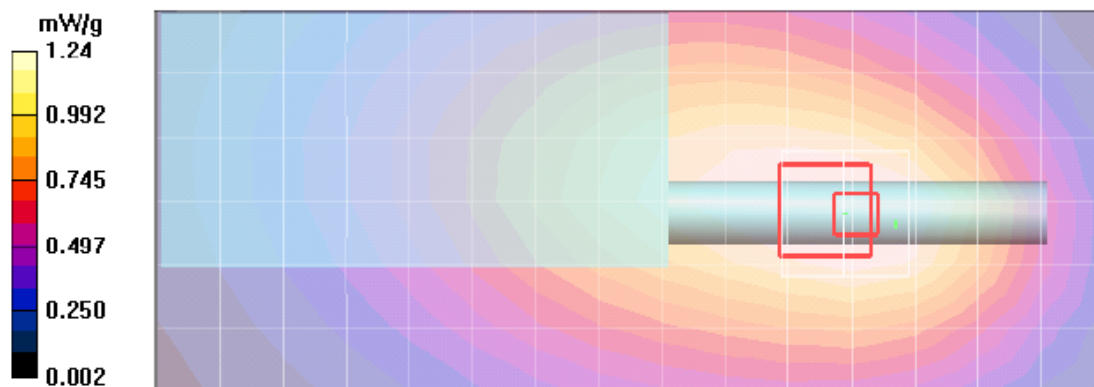
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.912 mW/g

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

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

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

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



Section 13.17 Table 47
Outside FCC Part 90 at the face
Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/29/2011 3:39:34 PM

Robot# / Run#: DASY4-PG-1 / PS-FACE-110729-12
Phantom# / Tissue Temp.: ELI4 1103 / 20.7 (C)
DUT Model# / Serial#: PMUD2627A / 867TMM0080
Antenna / TX Freq.: PMAD4119A / 141.000 (MHz)
Battery: PMNN4416A
Carry Acc. / Cable Acc.: NONE / NONE
Start Power: 5.85 (W)

Note:

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

Reported SAR: 1.567 mW/g (1g); 1.150 mW/g (10g)

Comments: Full scan.

Probe: ES3DV3 - SN3122, Calibrated: 4/14/2011, ConvF(8.1, 8.1, 8.1)

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

Duty Cycle: 1:1, Medium parameters used: $f = 141$ MHz; $\sigma = 0.73$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Face Scan/1-Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 45.7 V/m; Power Drift = 0.363 dB

Motorola Fast SAR: SAR(1 g) = 1.61 mW/g; SAR(10 g) = 1.22 mW/g

Maximum value of SAR (interpolated) = 1.69 mW/g

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

Reference Value = 45.7 V/m; Power Drift = 0.283 dB

Peak SAR (extrapolated) = 1.67 W/kg

Motorola Fast SAR: SAR(1 g) = 1.59 mW/g; SAR(10 g) = 1.2 mW/g

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

Maximum value of SAR (interpolated) = 1.67 mW/g

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

Reference Value = 45.7 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 2.27 W/kg

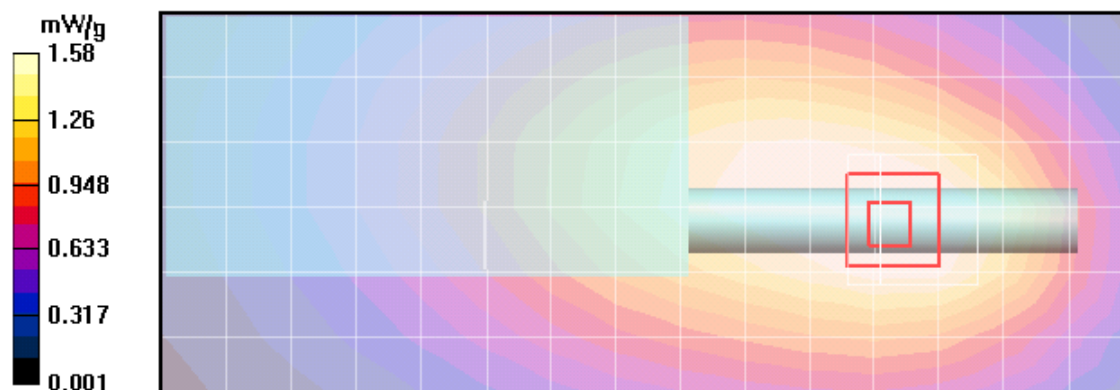
SAR(1 g) = 1.56 mW/g; SAR(10 g) = 1.15 mW/g

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

Maximum value of SAR (measured) = 1.63 mW/g

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

Maximum value of SAR (measured) = 1.58 mW/g



APPENDIX H

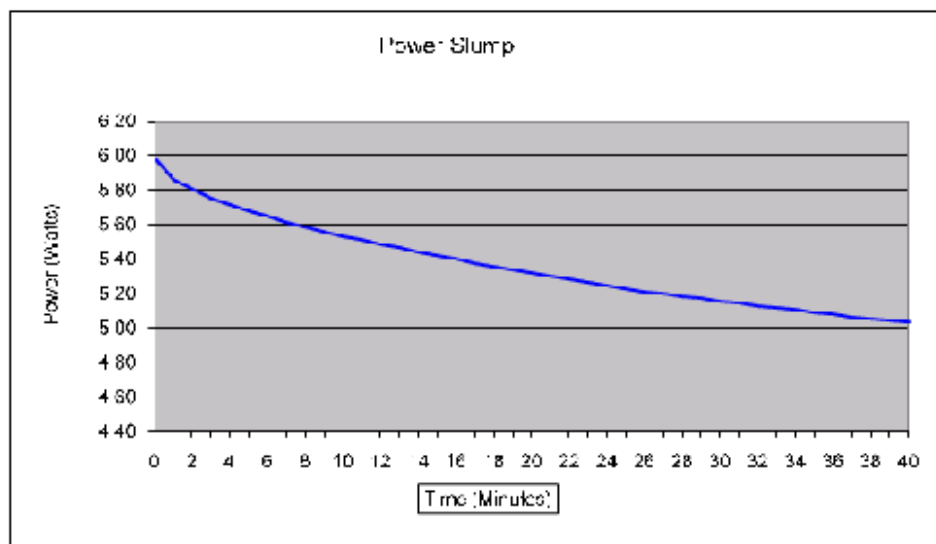
DUT Supplementary Data (Power slump)

Power Slump Model # : PMUD2627A
Serial # : 867TMM0084

Battery: PMNN4416A **Transmit Mode:** CW
Frequency: 167 MHz **Audio Accessory:** PMLN5727A
Date: 2/8/2011

Tx Time (Minutes)	Measure Power (Watts)
----------------------	--------------------------

0.0	5.99
1.0	5.87
2.0	5.80
3.0	5.76
4.0	5.72
5.0	5.68
6.0	5.65
7.0	5.62
8.0	5.58
9.0	5.56
10.0	5.53
11.0	5.51
12.0	5.49
13.0	5.46
14.0	5.44
15.0	5.42
16.0	5.40
17.0	5.38
18.0	5.36
19.0	5.34
20.0	5.32
21.0	5.30
22.0	5.28
23.0	5.27
24.0	5.25
25.0	5.23
26.0	5.21
27.0	5.20
28.0	5.18
29.0	5.17
30.0	5.16
31.0	5.14
32.0	5.13
33.0	5.12
34.0	5.10
35.0	5.09
36.0	5.08
37.0	5.07
38.0	5.06
39.0	5.04
40.0	5.04



Appendix I

DUT Test Position Photos

Photos available in Exhibit 7B

Appendix J

DUT and Body worn Accessory Photos

Photos available in Exhibit 7B