

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory
 Motorola Solutions Malaysia Sdn. Bhd. (455657-H)
 Plot 2, Bayan Lepas Technoplex Industrial Park,
 Mukim 12, S.W.D.
 11900 Bayan Lepas, Penang, Malaysia.

Date of Report: 03/24/2015
Report Revision: C

Responsible Engineer: Tan CheeChin (EME Section Manager)
Report Author: Tan CheeChin (EME Section Manager)
Date/s Tested: 01/03/14-03/26/14
Manufacturer/Location: Motorola Solutions Inc., Penang
Sector/Group/Div.: EMS
Date submitted for test: 12/05/13
DUT Description: Handheld Portable
 MTP3100 800MHz LKP CLR ROM
 MTP3250 800MHz FKP GPS/BT CLR ROM
Test TX mode(s): TDMA (PTT); CW (Bluetooth)
Max. Power output: 2.0W (800 band), 4.62 mW (Bluetooth)
Nominal Power: 1.8W (800 band), 2.0 mW (Bluetooth)
Tx Frequency Bands: 806 -870 MHz, 2.402 - 2.48GHz Bluetooth
Signaling type: TDMA & PI/4DQPSK ; FHSS (Bluetooth)
Model(s) Tested: PMUF1620A, PMUF1619A
Model(s) Certified: PMUF1620A(H61UCF6TZ1AN), PMUF1619A(H63UCH6TZ7AN)
Serial Number(s): 409TNZ0019
Classification: Occupational/Controlled
FCC ID: AZ489FT5868; 809-824MHz, 854-869MHz; 2402-2480MHz
IC : 109U-89FT5868; 806-824MHz, 851-869MHz; 2402-2480MHz

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
EME Lab Senior Resource Manager,
Laboratory Director
Approval Date: 3/24/2015

Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/3/2014 7:30:45 AM

Robot#: DASY5-PG-1 | Run#: PS-SYSP-835H-140103-01
 Dipole Model#: D835V2
 Phantom#: ELI4 1050
 Tissue Temp: 21.2 (C)
 Serial#: 4d0029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.039 dB
 Adjusted SAR (1W): 8.84 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz, $\sigma = 0.92$ S/m, $\epsilon_r = 40.7$, $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.43 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 52.033 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.33 W/kg

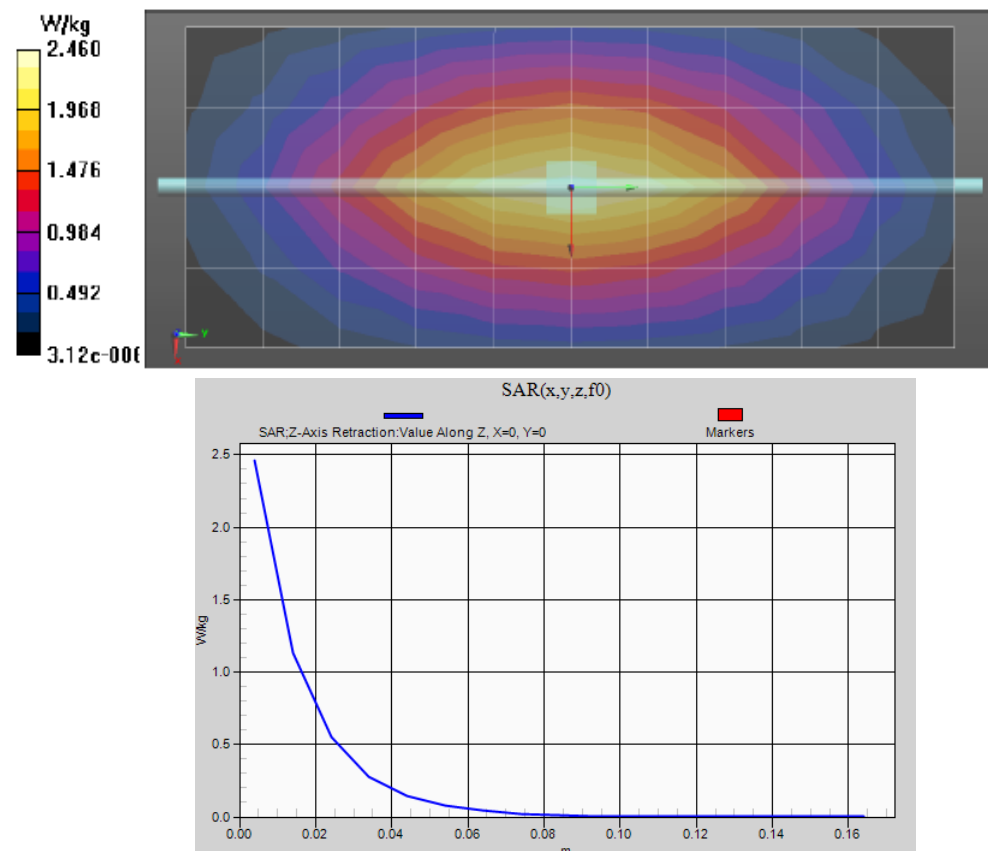
SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.45 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.45 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

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

Maximum value of SAR (measured) = 2.46 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/6/2014 7:24:56 AM

Robot#: DASY5-PG-1 | Run#: CoC-SYSP-835H-140106-01
 Dipole Model#: D835V2
 Phantom#: SAMTP 1384
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.03 dB
 Adjusted SAR (1W): 9.12 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x1x1):

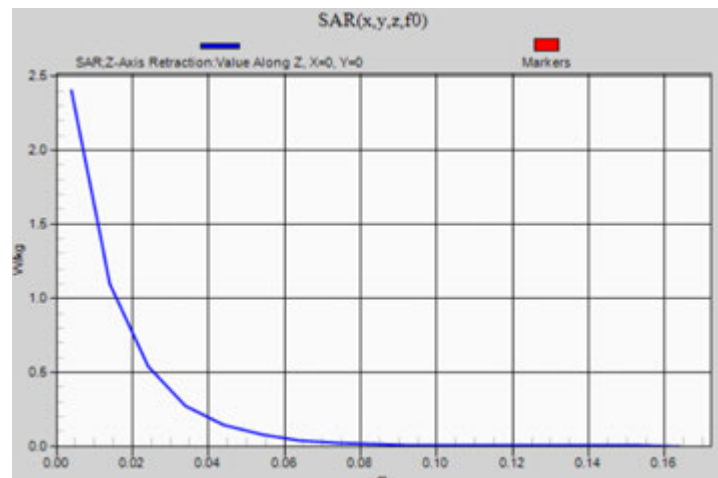
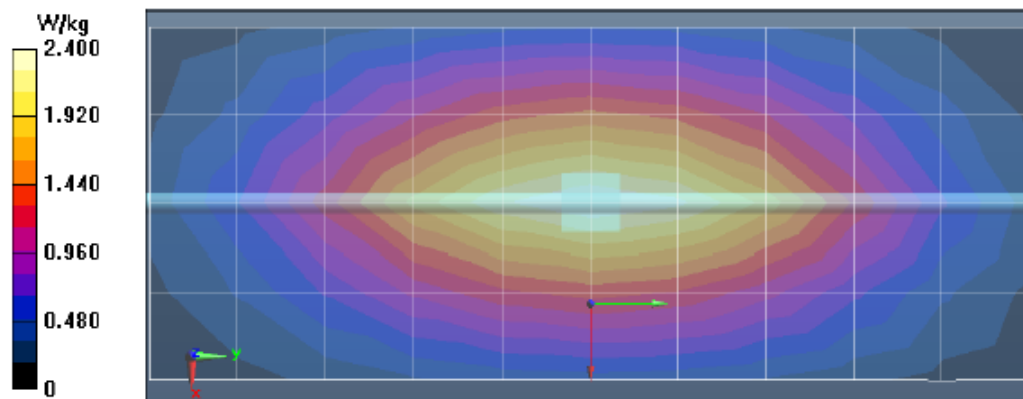
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.43 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 53.131 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 3.30 W/kg
SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.48 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.42 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 2.40 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/7/2014 6:41:44 AM

Robot#: DASY5-PG-1 | Run#: CcC-SYSP-835H-140107-01
 Dipole Model#: D835V2
 Phantom#: ELI4 1050
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.029 dB
 Adjusted SAR (1W): 8.68 mW/kg (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

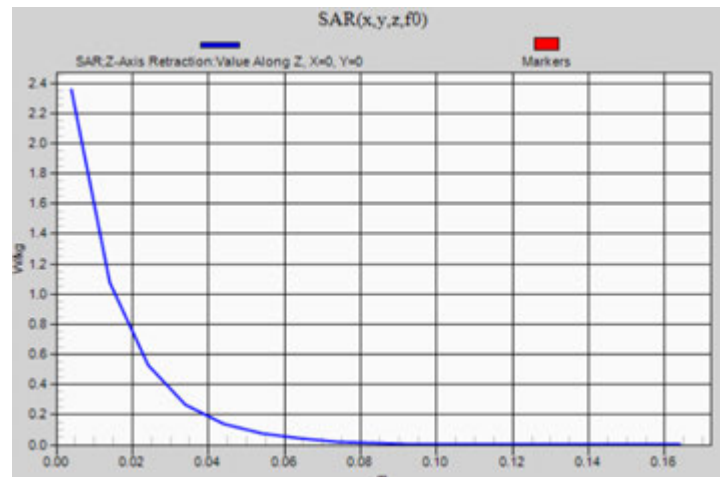
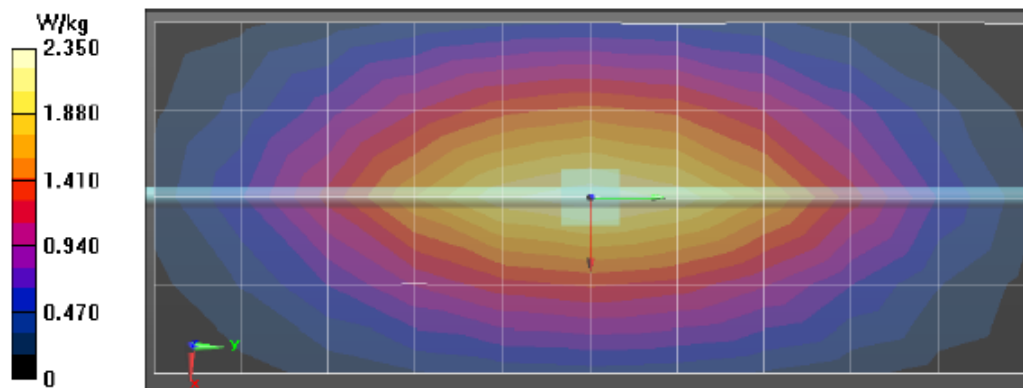
Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR(measured) = 2.33 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 51.667 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 3.19 W/kg
SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.42 W/kg (SAR corrected for target medium)
 Maximum value of SAR(measured) = 2.34 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$
 Maximum value of SAR(measured) = 2.35 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/7/2014 9:59:23 AM

Robot#: DASY5-PG-1 | Run#: CoC-SYSP-835B-140107-06
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.021 dB
 Adjusted SAR (1W): 9.04 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz, $\sigma = 0.96$ S/m; $\epsilon_r = 56.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

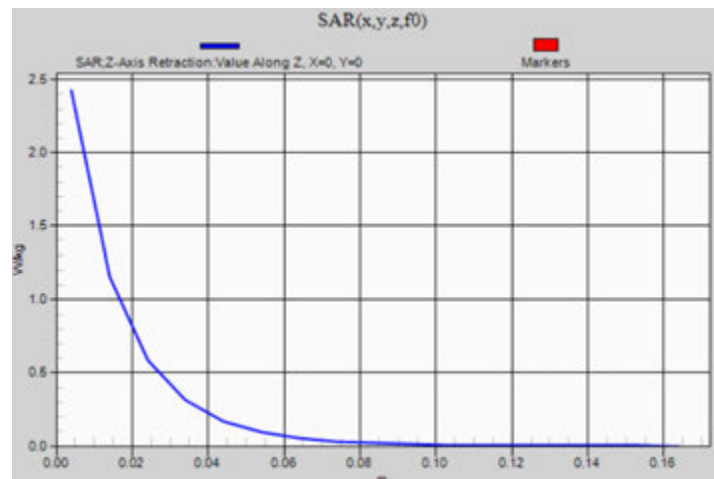
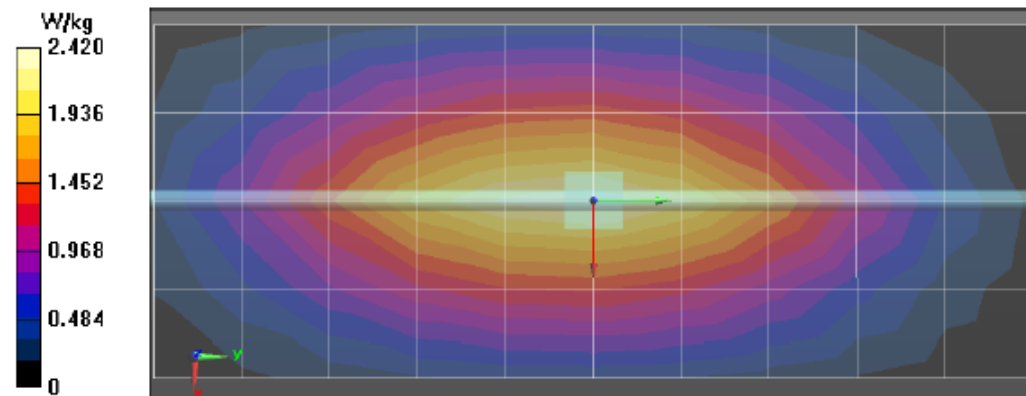
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.40 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.942 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.26 W/kg
SAR(1 g) = 2.26 W/kg; SAR(10 g) = 1.49 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.42 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/8/2014 6:19:40 AM

Robot#: DASY5-PG-1 | Run#: CcC-SYSP-835B-140108-01
 Dipole Model#: D835V2
 Phantom#: EL15 1150
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.024 dB
 Adjusted SAR (1W): 9.12 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.02$ S/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³
 Probe: ES3DW3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x1x1):

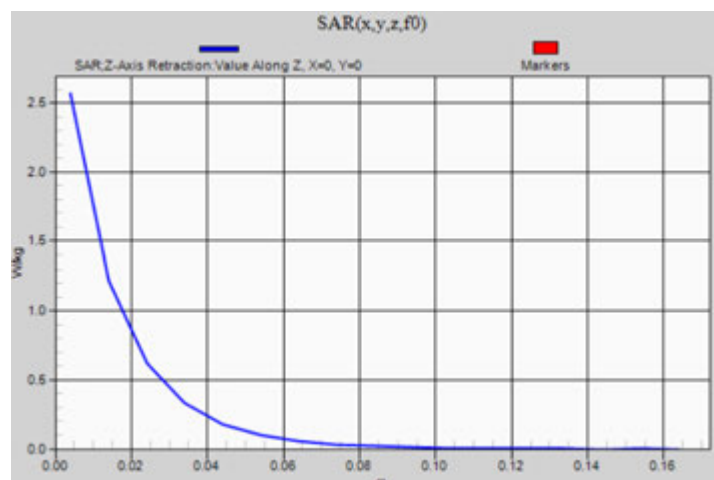
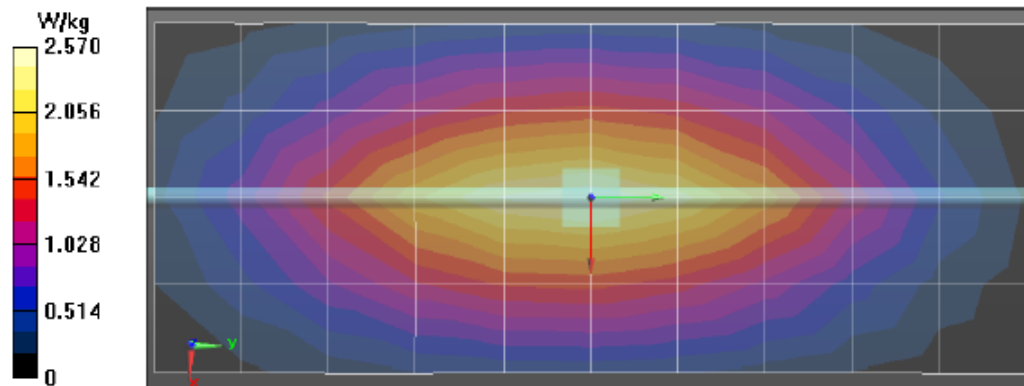
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.55 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.721 W/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.45 W/kg
SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.51 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.56 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.57 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/9/2014 6:18:22 AM

Robot#: DASY5-PG-1 | Run#: CoC-SYSP-835B-140109-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 20.8 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.015 dB
 Adjusted SAR (1W): 9.12 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz, $\sigma = 1.02$ S/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

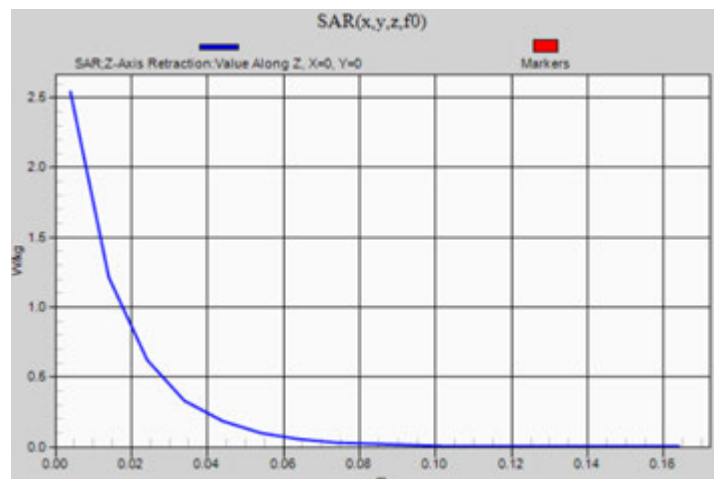
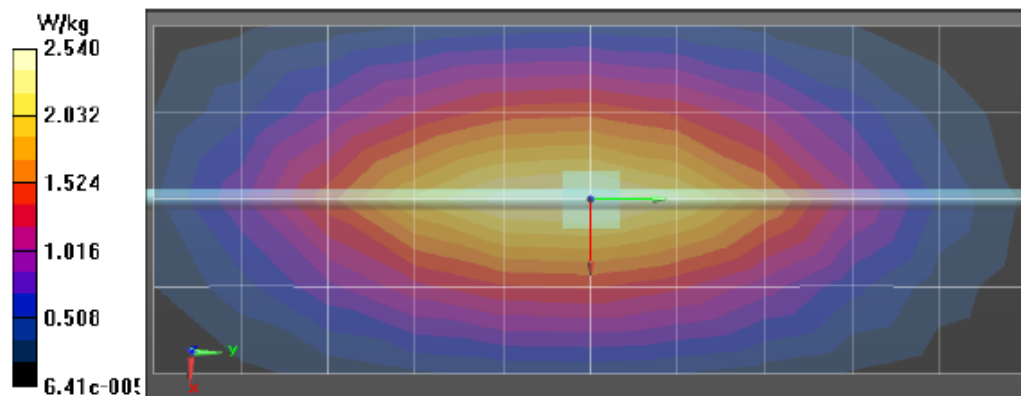
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.52 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 50.724 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 3.46 W/kg
SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.52 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.57 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 2.54 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/10/2014 6:27:25 AM

Robot#: DASY5-PG-1 | Run#: CcC-SYSP-835B-140110-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.2 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.022 dB
 Adjusted SAR (1W): 9.00 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.02$ S/m; $\epsilon_r = 546$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

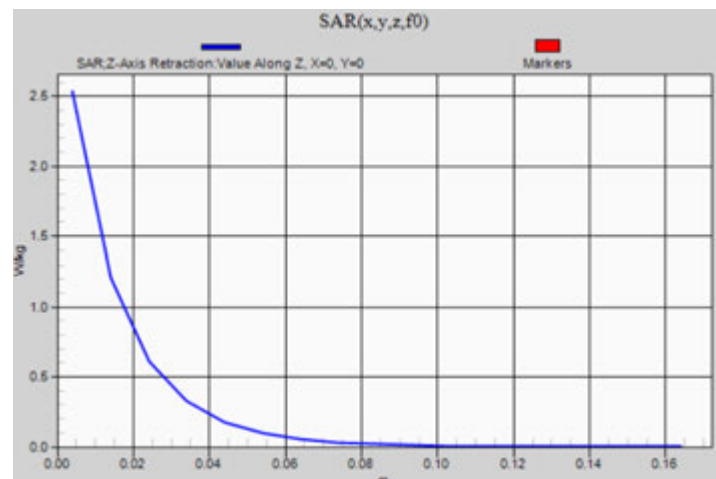
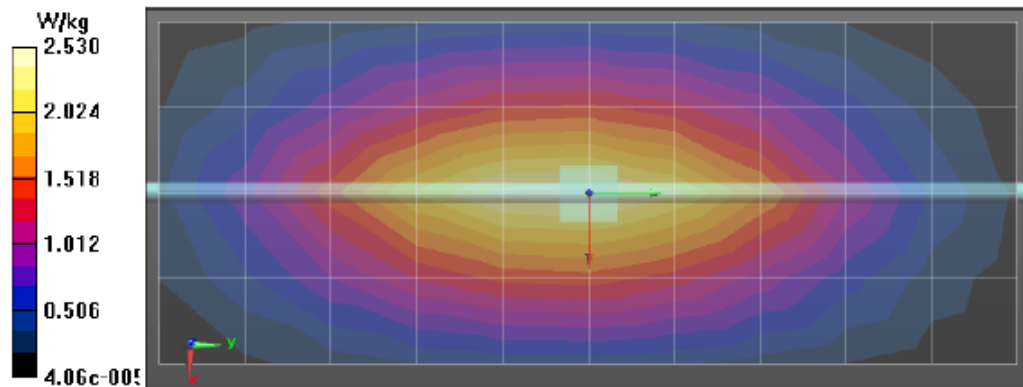
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.49 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 50.405 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.41 W/kg
SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.5 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.53 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/13/2014 10:14:32 AM

Robot#: DASY5-PG-1 | Run#: Lee-SYSP-835B-140113-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.03 dB
 Adjusted SAR (1W): 9.16 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz, $\sigma = 1.02$ S/m, $\epsilon_r = 53.7$, $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

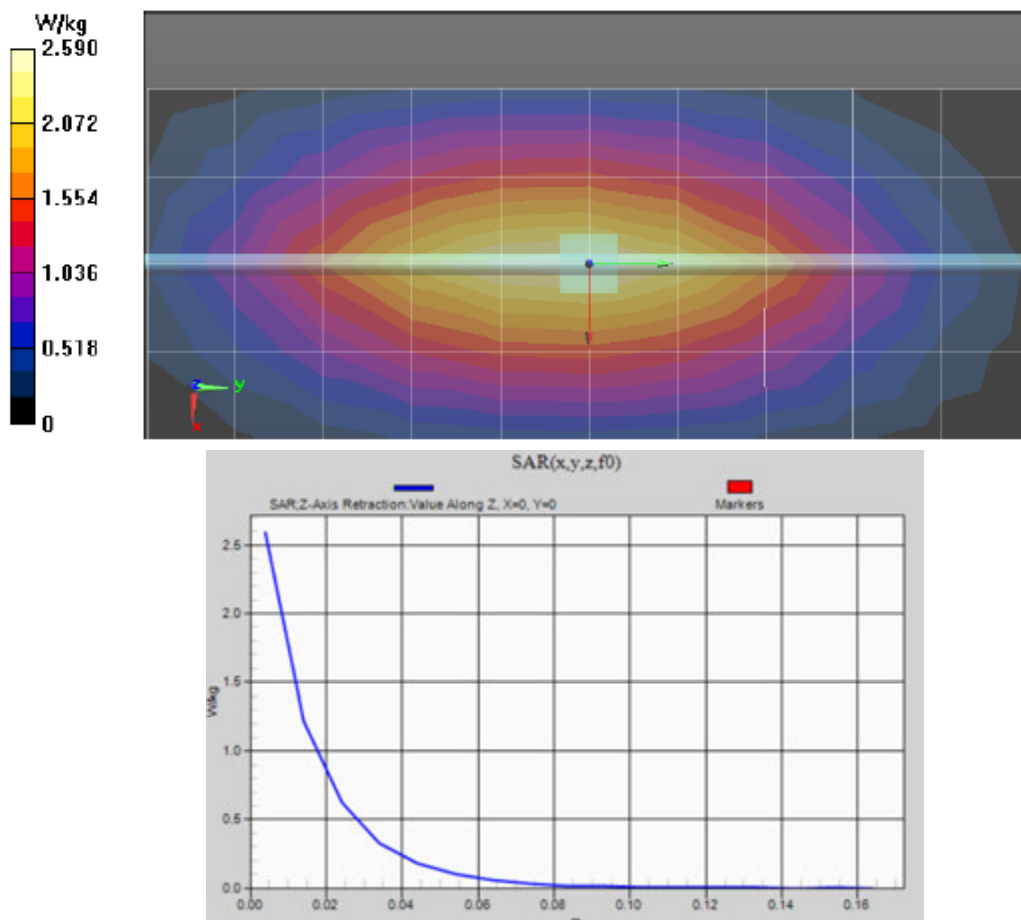
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.58 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.956 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.49 W/kg
SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.53 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.59 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/15/2014 6:56:01 AM

Robot#: DASY5-PG-1 | Run#: PS-SYSP-835B-140115-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.026 dB
 Adjusted SAR (1W): 908 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 539$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17), Calibrated: 3/13/2013
 Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

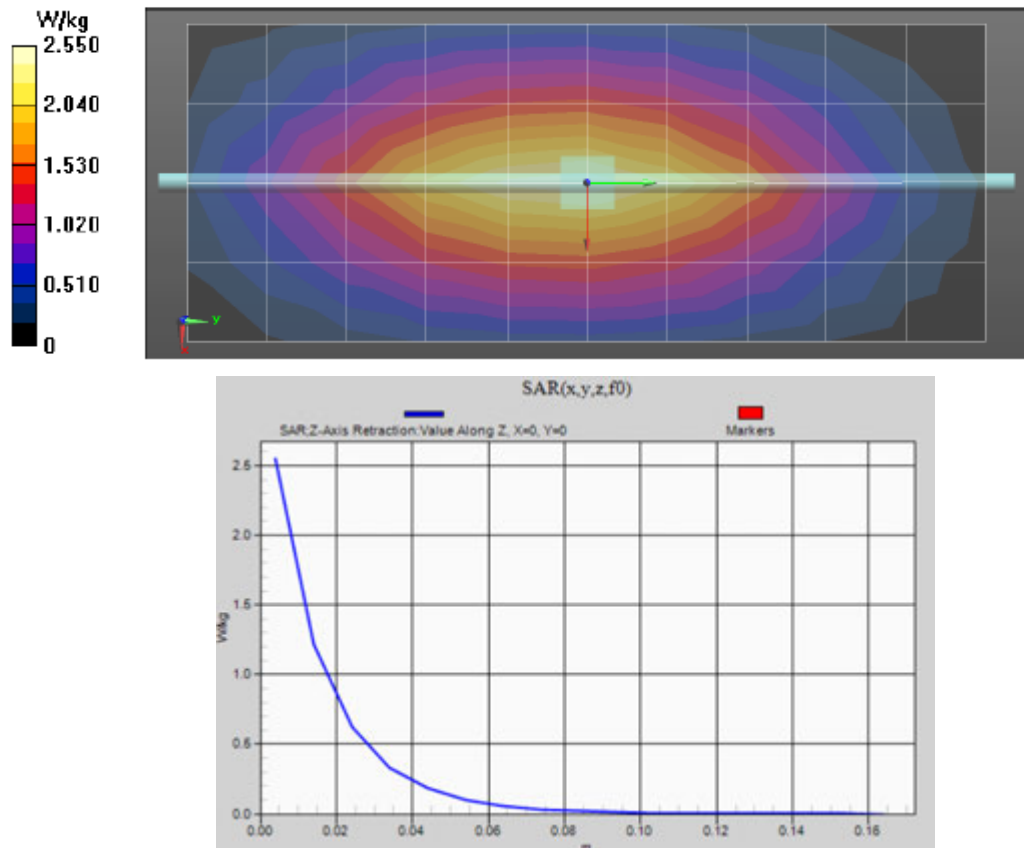
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR(measured) = 2.51 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 51.153 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 3.42 W/kg
SAR(1 g) = 2.27 W/kg; SAR(10 g) = 1.51 W/kg (SAR corrected for target medium)
 Maximum value of SAR(measured) = 2.54 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR(measured) = 2.55 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/20/2014 4:10:05 PM

Robot#: DASY5-PG-1 | Run#: PS-SYSP-835B-140120-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.1 (C)
 Serial#: 4d029
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.028 dB
 Adjusted SAR (1W): 9.08 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz, $\sigma = 1$ S/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3196, , Frequency: 835 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x11x1):

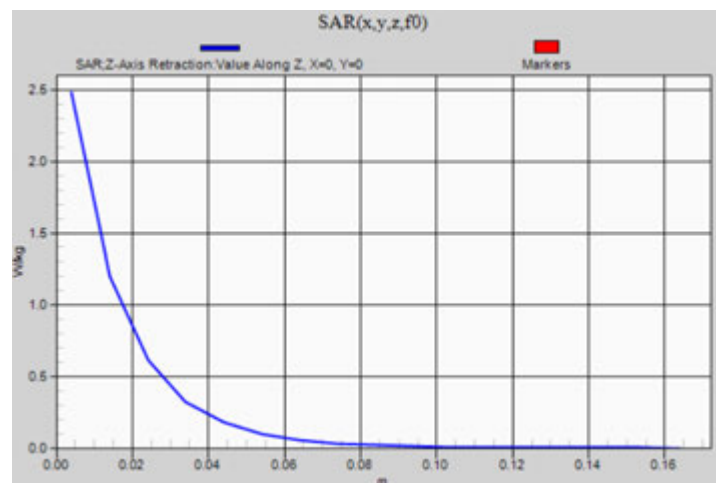
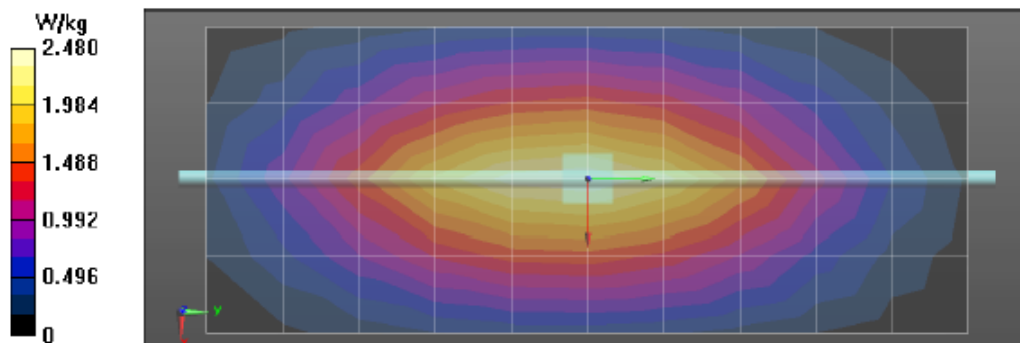
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.49 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 50.579 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 3.37 W/kg
SAR(1 g) = 2.27 W/kg; SAR(10 g) = 1.51 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.52 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 2.48 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/18/2014 7:05:21 AM

Robot#: DASY5-PG-1 | Run#: CeC-SYSP-835B-140318-01
 Dipole Model#: D835V2
 Phantom#: ELI5 1150
 Tissue Temp: 21.2 (C)
 Serial#: 48030
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.061 dB
 Adjusted SAR (1W): 8.92 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3096, Frequency: 835 MHz, ConvF(5.68, 5.68, 5.68); Calibrated: 10/21/2013
 Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (41x121x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 51.047 V/m; Power Drift = 0.01 dB
 Fast SAR: SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.5 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 2.37 W/kg

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x13x1):

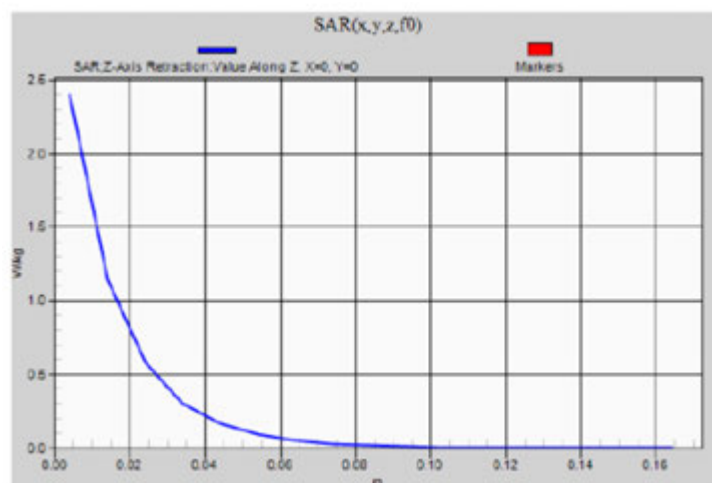
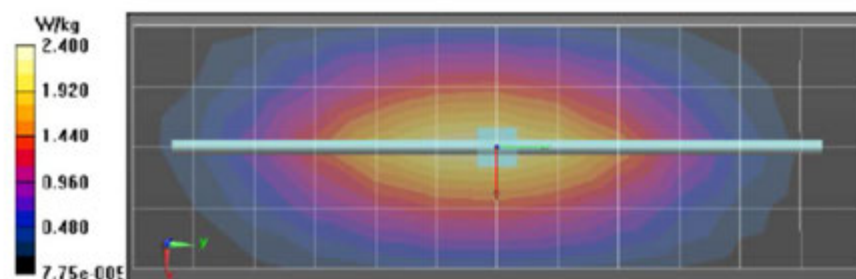
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.36 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 51.047 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.15 W/kg
 SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.47 W/kg (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.37 W/kg

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 2.40 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/26/2014 7:52:59 AM

Robot#: DASY5-PG-1 | Run#: PS-SYSP-835B-140326-01
Dipole Model#: D835V2
Phantom#: ELI5 1150
Tissue Temp: 21.2 (C)
Serial#: 4d030
Test Freq: 835 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.045 dB
Adjusted SAR (1W): 9.24 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3096, Frequency: 835 MHz, ConvF(5.68, 5.68, 5.68); Calibrated: 10/21/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (41x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 51.733 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.57 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.49 W/kg

Below 2 GHz-Rev.1/System Performance Check/Dipole Area Scan 2 (5x13x1):

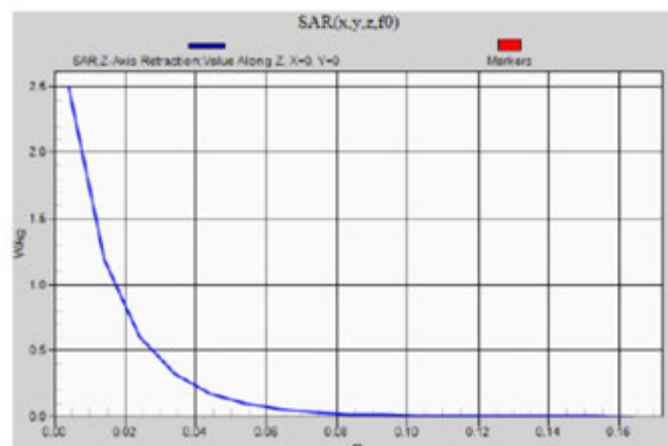
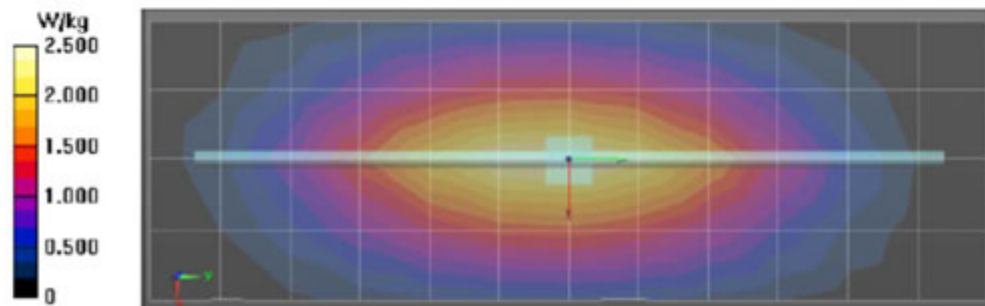
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.48 W/kg

Below 2 GHz-Rev.1/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 51.733 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.29 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.53 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.1/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.50 W/kg



Appendix E

DUT Scans

809-824 MHz Bands
Assessments at the Body with Body worn accessories
Table 17

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/8/2014 9:49:46 AM

```
Robot# DASY5-PG-1 | Run# CcC-AB-140108-07
Mode1# PMUF1620A
Phantom# ELI5 1150
Tissue Temp: 20.3 (C)
Serial# 409TNZ0019
Antenna: 85012070001
Test Freq: 809.0000 (MHz)
Battery: NNTN8020A
Carry Acc: RLN4570A
Audio Acc: NONE
Start Power: 1.96 (W)
```

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 809 \text{ MHz}$; $\sigma = 0.94 \text{ S/m}$; $\epsilon_T = 56.9$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3196, , Frequency: 809 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4 SN684, Calibrated: 10/15/2013

Below 2 GHz-Rev./Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 68.086 V/m; Power Drift = -0.38 dB

Fast SAR: SAR(1 g) = 5.46 W/kg; SAR(10 g) = 3.73 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.63 W/kg

Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 68.086 V/m; Power Drift = -0.53 dB

Peak SAR (extrapolated) =

W/kg

Fast SAR: SAR(1 g) = 5.2 W/kg; SAR(10 g) = 3.61 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.32 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 68.086 V/m; Power Drift = -0.73 dB

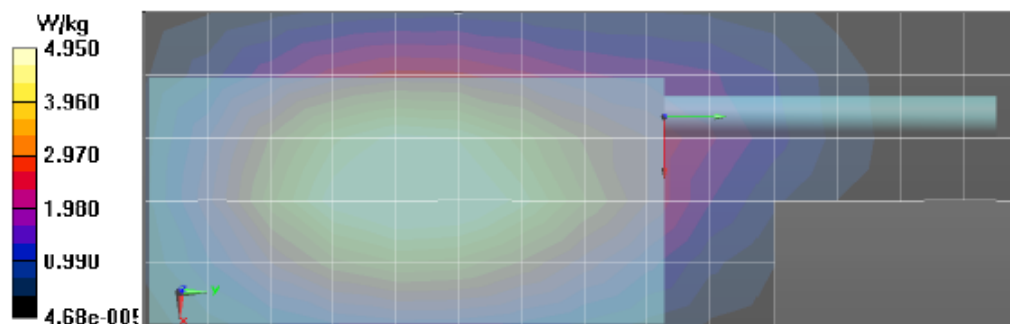
Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 4.94 W/kg; SAR(10 g) = 3.65 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.04 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 495 W/kg



Assessments at the Body with Body worn accessories (optional antenna)

Table 18

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/10/2014 10:09:02 AM

```
Robot# DASYS-PG-1 | Run# CcC-AB-140110-07
Mode1# PMUF1620A
Phantom# ELI5 1150
Tissue Temp: 20.4 (C)
Serial# 409TNZ0019
Antenna: 85012069001
Test Freq: 8240000 (MHz)
Battery NNTN8020A
Carry Acc: HLN6602A
Audio Acc: NONE
Start Power: 1.95 (W)
```

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 824 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

Probe: ES3DV3 - SN3196, Frequency: 824 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013

Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev./Ab Scan/1-Area Scan (51x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 68.114 V/m; Power Drift = -0.22 dB

Fast SAR: SAR(1 g) = 5.19 W/kg; SAR(10 g) = 3.57 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.50 W/kg

Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 68.114 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) =

[illegible]

Fast SAR: SAR(1 g) = 5.01 W/kg; SAR(10 g) = 3.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.31 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 68.114 V/m; Power Drift = -0.62 dB

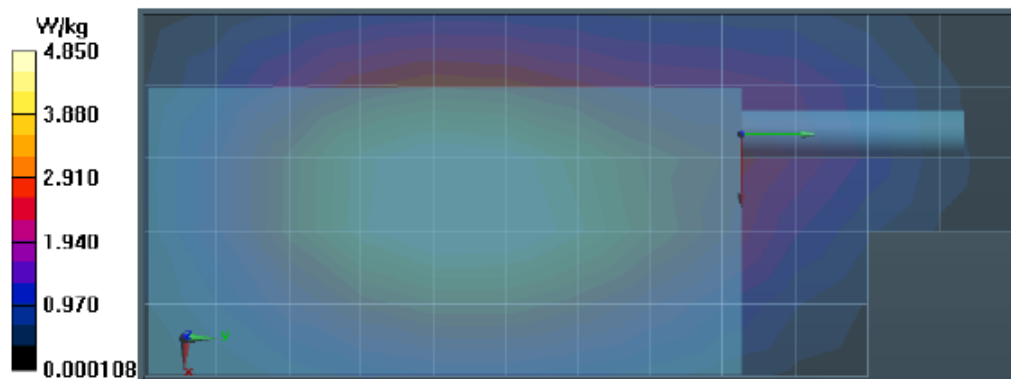
Peak SAR (extrapolated) = 6.01 W/kg

SAR(1 g) = 4.78 W/kg; SAR(10 g) = 3.55 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 500 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 485 W/kg



Assessments at the Body with Body worn RLN4570A (optional battery)

Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/8/2014 12:59:32 PM

Robot#: DASY5-PG-1 | Run#: CcC-AB-140108-12
 Mode1#: PMUF1620A
 Phantom#: ELI5 1150
 Tissue Temp: 20.5 (C)
 Serial#: 409TNZ0019
 Antenna: 85012070001
 Test Freq: 8240000 (MHz)
 Battery: NNTN8023B
 Carry Acc: RLN4570A
 Audio Acc: NONE
 Start Power: 1.96 (W)

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 824 \text{ MHz}$, $\sigma = 0.99 \text{ S/m}$, $\epsilon_r = 56.3$, $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 824 MHz, CorvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 64322 V/m; Power Drift = -0.23 dB

Fast SAR: SAR(1 g) = 5.66 W/kg; SAR(10 g) = 3.89 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.02 W/kg

Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference V value = 64322 V/m; Power Drift = -0.40 dB

Peak SAR (extrapolated) =

[illegible]

Fast SAR: SAR(1 g) = 5.36 W/kg; SAR(10 g) = 3.78 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.64 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm.

 $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 64322 V/m; Power Drift = -0.56 dB

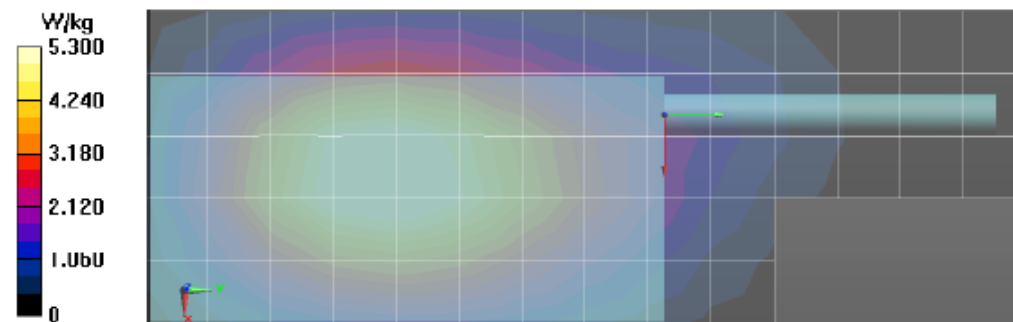
Peak SAR (extrapolated) = 6.53 W/kg

SAR(1 g) = 5.23 W/kg; SAR(10 g) = 3.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.43 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 5.30 W/kg



Assessments at the Body with Body worn RLN4570A (audio accessory)
Table 20

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/26/2014 10:51:07 AM

Robot#: DASY5-PG-1 | Run#: PS-AB-140326-06
Model#: PMUF1620A
Phantom#: ELI5 1150
Tissue Temp: 20.7 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 824.0000 (MHz)
Battery: NNTN8023B
Carry Acc: RLN4570A
Audio Acc: PMMN4072A
Start Power: 1.98 (W)

Comments: Full scan

Duty Cycle: 1:4.54988, Medium parameters used: $f = 824 \text{ MHz}$; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3096, Frequency: 824 MHz, ConvF(5.68, 5.68, 5.68); Calibrated: 10/21/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

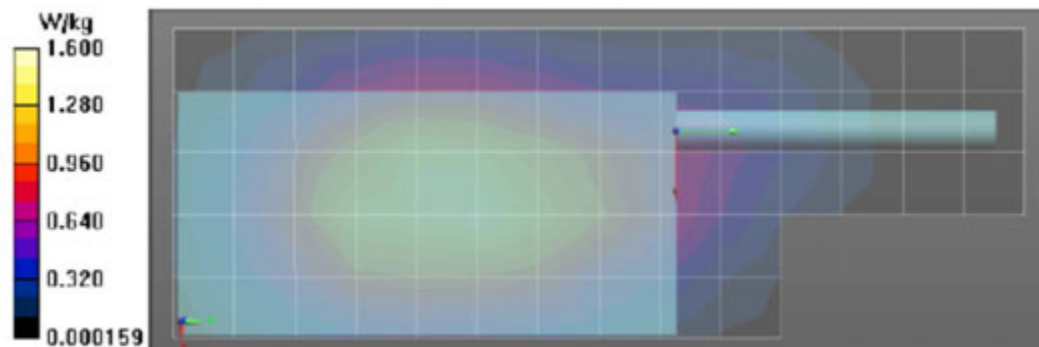
Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 32.521 V/m; Power Drift = 0.05 dB
Fast SAR: SAR(1 g) = 1.48 W/kg; SAR(10 g) = 1.01 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.55 W/kg

[illegible]

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) = 1.59 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 32.521 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 1.54 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.60 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



854-869 MHz Bands
Assessments at the Body with Body worn accessories
Table 22

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/8/2014 5:28:31 PM

```
Robot#: DASY5-PG-1 | Run#: PS-AB-140108-21
Model#: PMUF1620A
Phantom#: ELI5 1150
Tissue Temp: 20.0 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8020A
Carry Acc: RLN4570A
Audio Acc: NONE
Start Power: 1.93 (W)
```

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 862 \text{ MHz}$; $\sigma = 1.03 \text{ S/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013

Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 60.759 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 5.82 W/kg; SAR(10 g) = 3.99 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.19 W/kg

Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 60.759 V/m; Power Drift = -0.36 dB

Peak SAR (extrapolated) =

[illegible]

Fast SAR: SAR(1 g) = 5.55 W/kg; SAR(10 g) = 3.87 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.83 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 60.759 V/m; Power Drift = -0.60 dB

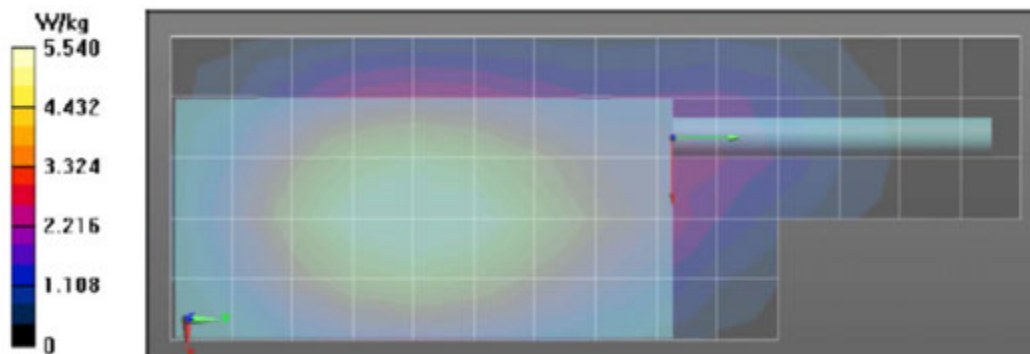
Peak SAR (extrapolated) = 6.83 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 3.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.65 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 5.54 W/kg



Assessments at the Body with Body worn accessories (optional antenna)

Table 23

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/15/2014 10:52:30 AM

Robot#:	DASY5-PG-1	Run#:	PS-AB-140115-09
Model#:	PMUF1620A		
Phantom#:	ELIS 1150		
Tissue Temp:	20.4 (C)		
Serial#:	409TNZ0019		
Antenna:	85012069001		
Test Freq:	854.0000 (MHz)		
Battery:	NNTN8020A		
Carry Acc:	RLN4570A		
Audio Acc:	NONE		
Start Power:	1.95 (W)		

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 854 \text{ MHz}$; $\sigma = 1.02 \text{ S/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 854 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 62.525 V/m; Power Drift = -0.33 dB
Fast SAR: SAR(1 g) = 5.27 W/kg; SAR(10 g) = 3.61 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 5.60 W/kg

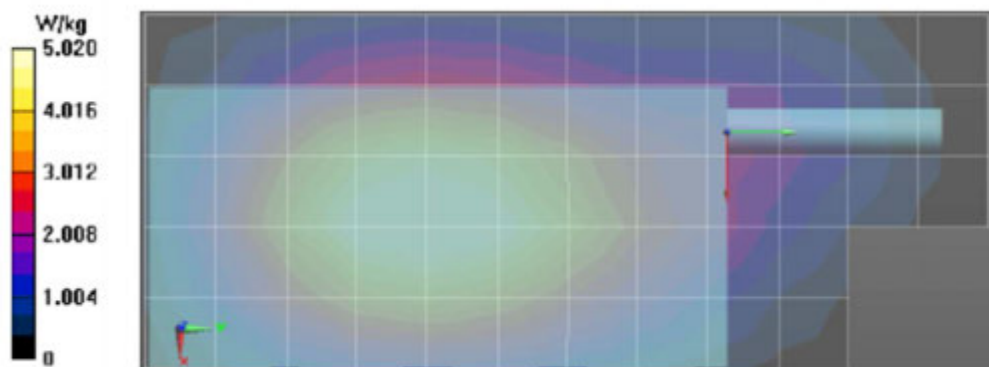
Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.0000 mm

[illegible]

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 62.525 V/m; Power Drift = -0.59 dB
Peak SAR (extrapolated) = 6.18 W/kg
SAR(1 g) = 4.84 W/kg; SAR(10 g) = 3.54 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 5.14 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 5.02 W/kg



Assessments at the Body with Body worn RLN4570A (optional battery)

Table 24

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/9/2014 8:47:15 AM

```
Robot#: DASY5-PG-1 | Run#: CcC-AB-140109-06
Model#: PMUF1620A
Phantom#: ELI5 1150
Tissue Temp: 20.4 (C)
Serial#: 409TNZ00019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8023B
Carry Acc: RLN4570A
Audio Acc: NONE
Start Power: 1.94 (W)
```

Comments: Full scan

Duty Cycle: 1:1.50003, Medium parameters used: $f = 862 \text{ MHz}$, $\sigma = 1.03 \text{ S/m}$, $\epsilon_r = 53.7$, $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 63.207 V/m; Power Drift = -0.24 dB
Fast SAR: SAR(1 g) = 5.23 W/kg; SAR(10 g) = 3.59 W/kg (SAR, corrected for target medium)
Maximum value of SAR (interpolated) = 5.57 W/kg

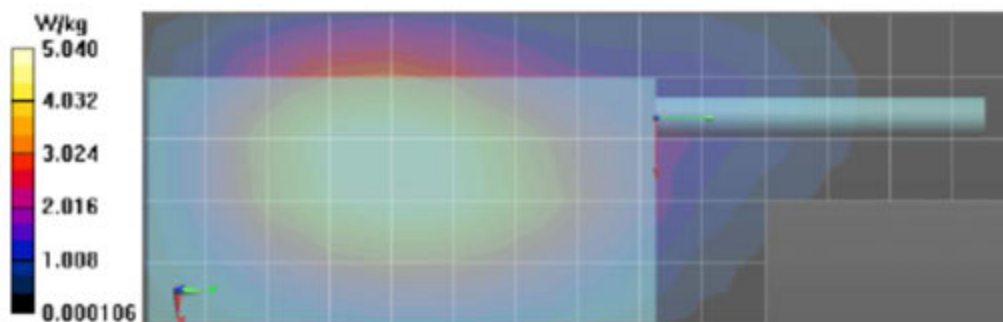
Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (4lx4lx1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

[illegible]

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 63.207 V/m; Power Drift = -0.54 dB
Peak SAR (extrapolated) = 6.11 W/kg
SAR(1 g) = 4.86 W/kg; SAR(10 g) = 3.61 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 5.14 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 5.04 W/kg



Assessments at the Body with Body worn RLN4570A (audio accessory)

Table 25

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/15/2014 7:07:08 PM

```
Robot#: DASY5-PG-1 | Run#: CcC-AB-140115-20
Model#: PMUF1620A
Phantom#: ELI5 1150
Tissue Temp: 20.0 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8020A
Carry Acc: RLN4570A
Audio Acc: PMMN4072A
Start Power: 1.93 (W)
```

Comments: Full scan

Duty Cycle: 1.454988, Medium parameters used: $f = 862$ MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³
Probe: E53DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 34.073 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 1.5 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.61 W/kg

Below 2 GHz-Rev.1/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 34.073 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) =

W/kg

Fast SAR: SAR(1 g) = 1.51 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.073 V/m; Power Drift = 0.06 dB

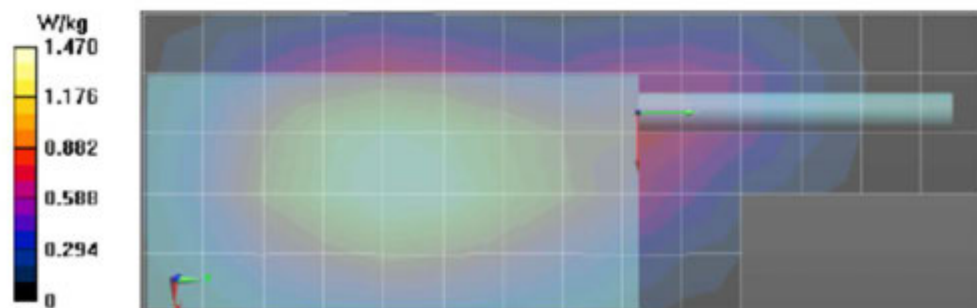
Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.51 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.61 W/kg

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.47 W/kg



809-824 MHz Bands
Assessments at the Face
Table 27

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/6/2014 7:52:10 PM

```
Robot#: DASY5-PG-1 | Run#: PS-FACE-140106-22
Model#: PMUF1620A
Phantom#: ELI4 1050
Tissue Temp: 21.2 (C)
Serial#: 409TNZ0019
Antenna#: 85012070001
Test Freq: 816.5000 (MHz)
Battery: NNTN8023B
Carry Acc: NONE
Audio Acc: NONE
Start Power: 1.94 (W)
```

Comments: Full scan

Duty Cycle: 1:4.54988, Medium parameters used: $f = 817$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3196, Frequency: 816.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.672 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.329 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.484 W/kg

Below 2 GHz-Rev.1/Face Scan/2-Volume Scan 2D (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 20.672 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) =

$\frac{W}{kg}$

Fast SAR: SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.330 W/kg (SAR corrected for target medium)

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (interpolated) = 0.488 W/kg

Below 2 GHz-Rev.1/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.672 V/m; Power Drift = 0.02 dB

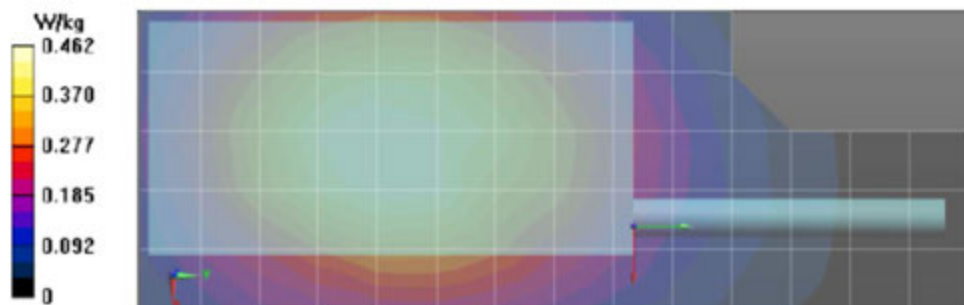
Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.350 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.488 W/kg

Below 2 GHz-Rev.1/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.462 W/kg



**854-869MHz Bands
Assessments at the Face
Table 29**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/6/2014 8:50:33 PM

```
Robot#: DASY5-PG-1 | Run#: PS-FACE-140106-24
Model#: PMUF1620A
Phantom#: ELI4 1050
Tissue Temp: 21.0 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8023B
Carry Acc: NONE
Audio Acc: NONE
Start Power: 1.93 (W)
```

Comments: Full scan

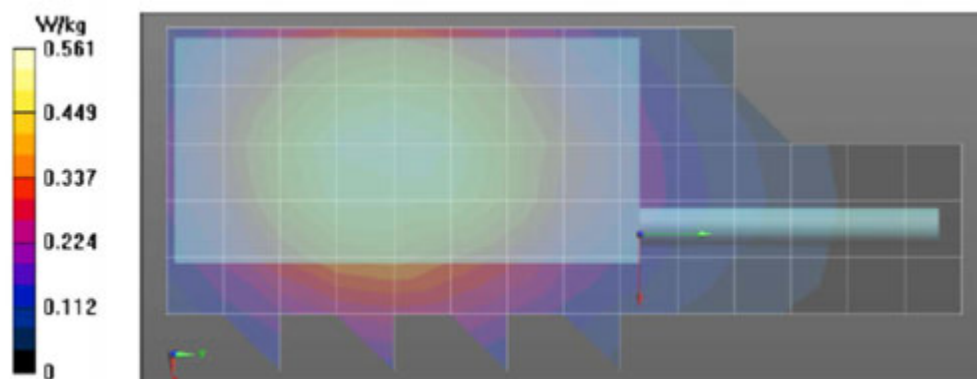
Duty Cycle: 1:4.54988, Medium parameters used: $f = 862 \text{ MHz}$; $\sigma = 0.94 \text{ S/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 SN684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm,
dy=1.500 mm
Reference Value = 22.054 V/m; Power Drift = -0.02 dB
Fast SAR: SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.375 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.569 W/kg

Below 2 GHz-Rev.1/Face Scan/2-Volume Scan 2D (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm
Reference Value = 22.054 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) =
0.000 W/kg
Fast SAR: SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.381 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.571 W/kg

Below 2 GHz-Rev.1/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,
dy=7.5mm, dz=5mm
Reference Value = 22.054 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.688 W/kg
SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.395 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.563 W/kg

Below 2 GHz-Rev.1/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm,
dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.561 W/kg



809-824MHz Bands
Assessments at the Head (Left Ear)
Table 31

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/3/2014 5:34:42 PM

```
Robot#: DASY5-PG-1 | Run#: CcC-LEAR-140103-02
Model#: PMUF1620A
Phantom#: SAMTP 1384
Tissue Temp: 21.5 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 816.5000 (MHz)
Battery: NNTN8023B
Carry Acc: NONE, TOUCH
Audio Acc: NONE
Start Power: 1.95 (W)
```

Comments: TOUCH

Duty Cycle: 1:4.54988, Medium parameters used: $f = 817 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 816.5 MHz, ConvF(6.17, 6.17, 6.17), Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Left Ear-Touch position/1-Area Scan (61x141x1): Interpolated grid:

 $dx=1.500\text{ mm}, dy=1.500\text{ mm}$

Reference Value = 39.210 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 1.68 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) =

Below 2 GHz-Rev.1/Left Ear-Touch position/2-Volume 2D Scan (41x41x1): Interpolated

grid: $dx=0.7500$ mm, $dy=0.7500$ mm, $dz=1.000$ mm

Reference Value = 39,210 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) =

W/kg

Fast SAR: SAR(1 g) = 1.65 W/kg; SAR(10 g) = 1.16 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.1/Left Ear-Touch position/3-Zoom Scan (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

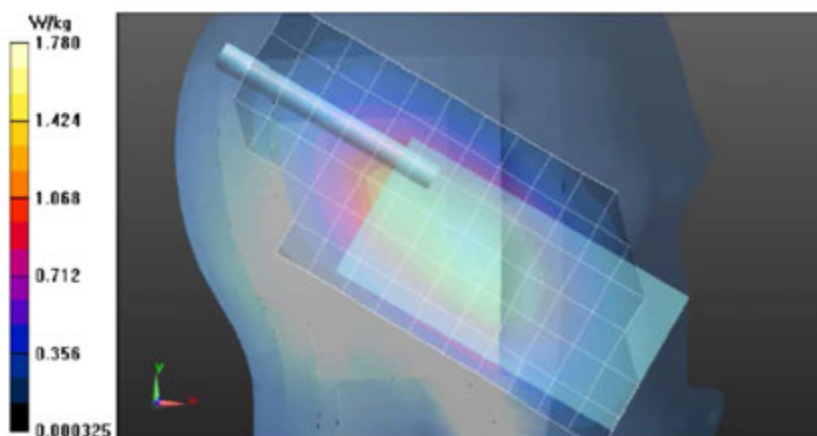
Reference Value = 39.210 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.78 W/kg

Below 2 GHz-Rev.1/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid:

 $dx=20\text{mm}, dy=20\text{mm}, dz=10\text{mm}$ 

Assessments at the Head (Right Ear)
Table 32

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/3/2014 8:25:23 PM

Robot#: DASY5-PG-1 | Run#: CeC-REAR-140103-07
Model#: PMUF1620A
Phantom#: SAMTP 1384
Tissue Temp: 20.8 (C)
Serial#: 409TNZ0019
Antenna: S5012070001
Test Freq: 816.5000 (MHz)
Battery: NNTN8023B
Carry Acc: NONE, TOUCH
Audio Acc: NONE
Start Power: 1.95 (W)

Comments: TOUCH

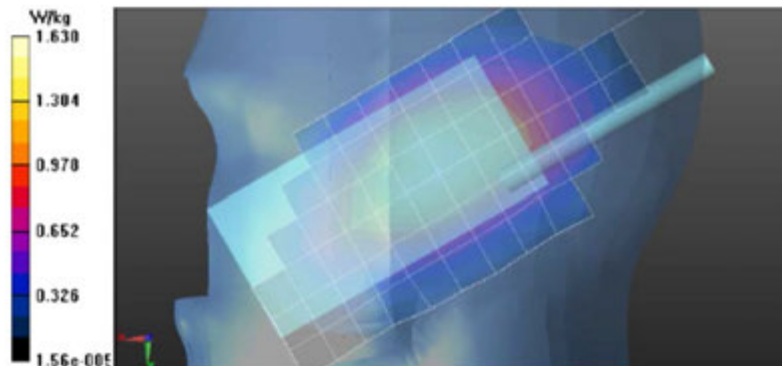
Duty Cycle: 1:4.54988, Medium parameters used: $f = 817 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3196, Frequency: 816.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Right Ear-Touch Position/l-Area Scan (61x141x1): Interpolated grid:
 dx=1.500 mm, dy=1.500 mm
 Reference Value = 32.412 V/m; Power Drift = 0.00 dB
 Fast SAR: SAR(1 g) = 1.52 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.59 W/kg

[illegible]

Below 2 GHz-Rev.1/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 32.412 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.94 W/kg
SAR(1 g) = 1.57 W/kg; SAR(10 g) = 1.16 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.66 W/kg

Below 2 GHz-Rev.1/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement
grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.63 W/kg



854-869MHz Bands
Assessments at the Head (Left Ear)
Table 34

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/6/2014 1:06:06 PM

```
Robot#: DASY5-PG-1 | Run#: CcC-LEAR-140106-11
Model#: PMUF1620A
Phantom#: SAMTP 1384
Tissue Temp: 20.4 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8020A
Carry Acc: NONE, TOUCH
Audio Acc: NONE
Start Power: 1.93 (W)
```

Comments: TOUCH

Duty Cycle: 1:4.54988, Medium parameters used: $f = 862 \text{ MHz}$; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 42.4$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Left Ear-Touch position/1-Area Scan (61x141x1): Interpolated grid:

 $dx=1.500 \text{ mm}, dy=1.500 \text{ mm}$

Reference Value = 34.065 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.980 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.54 W/kg

Below 2 GHz-Rev.1/Left Ear-Touch position/2-Volume 2D Scan (41x41x1): Interpolated

grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 34.065 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) =

W/kg

Fast SAR: SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.991 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.56 W/kg

Below 2 GHz-Rev.1/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.065 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.84 W/kg

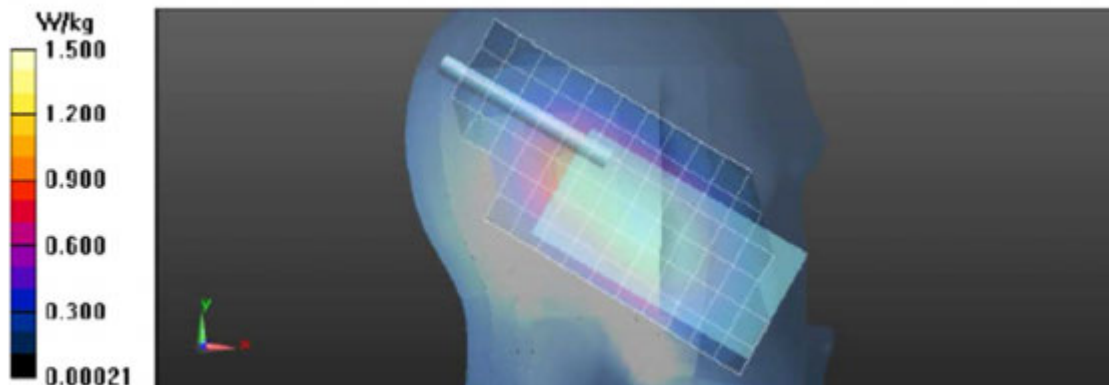
SAR(1 g) = 1.43 W/kg; SAR(10 g) = 1.04 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.55 W/kg

Below 2 GHz-Rev.1/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid:

 $dx=20\text{mm}, dy=20\text{mm}, dz=10\text{mm}$

Maximum value of SAR (measured) = 1.50 W/kg



Assessments at the Head (Right Ear)
Table 35

Motorola Solutions, Inc. EME Laboratory

Date/Time: 1/6/2014 1:47:57 PM

```
Robot#: DASY5-PG-1 | Run#: CeC-REAR-140106-12
Model#: PMUF1620A
Phantom#: SAMTP 1384
Tissue Temp: 20.3 (C)
Serial#: 409TNZ0019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTNS020A
Carry Acc: NONE, TOUCH
Audio Acc: NONE
Start Power: 1.93 (W)
```

Comments: TOUCH

Duty Cycle: 1:4.54988, Medium parameters used: $f = 862 \text{ MHz}$; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 42.4$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
 Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Right Ear-Touch Position/1-Area Scan (61x141x1): Interpolated grid:

 $dx=1.500\text{ mm}, dy=1.500\text{ mm}$

Reference Value = 28.243 V/m; Power Drift = 0.12 dB

Fast SAR: SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.910 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.42 W/kg

Below 2 GHz-Rev.1/Right Ear-Touch Position/2-Volume 2D Scan (41x41x1):

Interpolated grid: $dx=0.7500$ mm, $dy=0.7500$ mm, $dz=1.000$ mm

Reference Value = 28.243 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) =

W/kg

Fast SAR: SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.938 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.47 W/kg

Below 2 GHz-Rev.1/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.243 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.85 W/kg

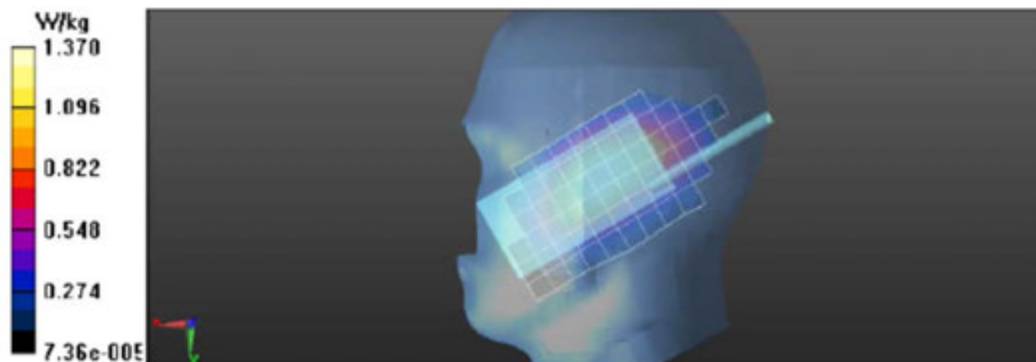
SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.994 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.47 W/kg

Below 2 GHz-Rev.1/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement

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

Maximum value of SAR (measured) = 1.37 W/kg



APPENDIX F
Shortened Scan of Highest SAR configuration

Shortened Scan Table 36

Motorola Solutions, Inc. EME Laboratory
Date/Time: 1/20/2014 4:45:24 PM

```
Robot#: DASY5-PG-1 | Run#: PS-AB-140120-02
Model#: PMUF1620A
Phantom#: ELI5 1150
Tissue Temp: 21.1 (C)
Serial#: 409TN20019
Antenna: 85012070001
Test Freq: 861.5000 (MHz)
Battery: NNTN8020A
Carry Acc: RLN4570A
Audio Acc: NONE
Start Power: 1.96 (W)
```

Comments: Shorten scan

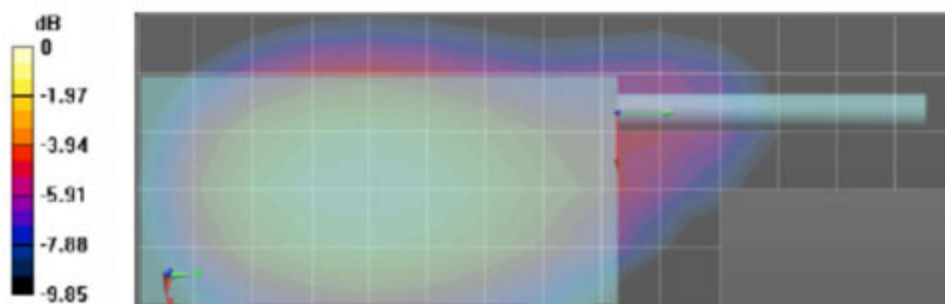
Duty Cycle: 1:1.50003, Medium parameters used: $f = 862 \text{ MHz}$, $\sigma = 1.02 \text{ S/m}$, $\epsilon_r = 53.7$, $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3196, Frequency: 861.5 MHz, ConvF(6.17, 6.17, 6.17); Calibrated: 3/13/2013
Electronics: DAE4 Sn684, Calibrated: 10/15/2013

Below 2 GHz-Rev.1/Ab Scan/1-Area Scan (51x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 57.759 V/m; Power Drift = -0.22 dB
Fast SAR: SAR(1 g) = 5.74 W/kg; SAR(10 g) = 3.94 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 6.09 W/kg

[illegible]

Below 2 GHz-Rev.1/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 5.76 W/kg

Below 2 GHz-Rev.1/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm,
dy=7.5mm, dz=5mm
Reference Value = 77.060 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 7.24 W/kg
SAR(1 g) = 5.64 W/kg; SAR(10 g) = 4.11 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 5.97 W/kg



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

Scan Description	Referenced Table	Test Time (min.)	SAR 1g (W/kg)	SAR 10g (W/kg)
Shorten scan (zoom)	37	8	5.96	4.34
Full scan (area & zoom)	22	22	6.37	4.65

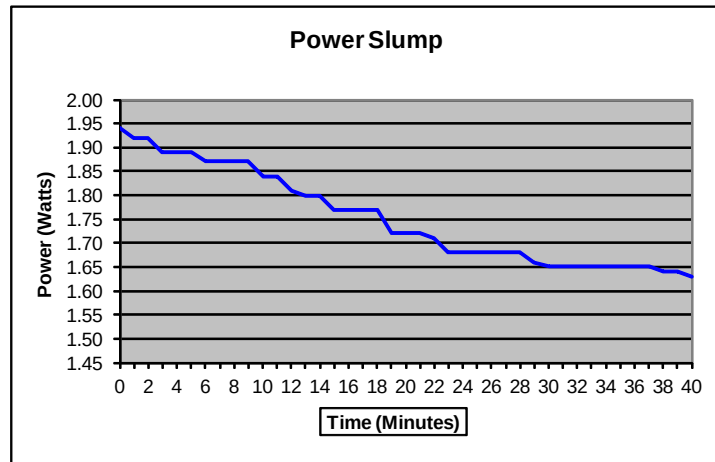
APPENDIX G

DUT Power slump

Power Slump Model # : PMUF1620A**Serial # : 409TNZ0019****Battery:** NNTN8020A**Transmit Mode:** MSPD**Frequency:** 861.5 MHz**Audio Accessory:** NONE**Date:** 1/20/2013

Tx Time (Minutes)	Measure Power (Watts)
----------------------	--------------------------

0.0	1.94
1.0	1.92
2.0	1.92
3.0	1.89
4.0	1.89
5.0	1.89
6.0	1.87
7.0	1.87
8.0	1.87
9.0	1.87
10.0	1.84
11.0	1.84
12.0	1.81
13.0	1.80
14.0	1.80
15.0	1.77
16.0	1.77
17.0	1.77
18.0	1.77
19.0	1.72
20.0	1.72
21.0	1.72
22.0	1.71
23.0	1.68
24.0	1.68
25.0	1.68
26.0	1.68
27.0	1.68
28.0	1.68
29.0	1.66
30.0	1.65
31.0	1.65
32.0	1.65
33.0	1.65
34.0	1.65
35.0	1.65
36.0	1.65
37.0	1.65
38.0	1.64
39.0	1.64
40.0	1.63



APPENDIX H

DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX I
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B