

 MOTOROLA SOLUTIONS	 ACCREDITED 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) Customer Solution Center Plot 2, Bayan Lepas Technoplex Industrial Park, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	Date of Report: 04/09/13 Report Revision: O Report ID: SAR rpt_PMUE4147A_Rev.O 130409_SR11175
Responsible Engineer: Tan CheeChin (EME Section Manager) Report Author: Tan CheeChin (EME Section Manager) Date/s Tested: 02/20/13-04/05/13 Manufacturer/Location: Motorola, Penang Sector/Group/Div.: PCR Date submitted for test: 01/22/13 DUT Description: 403-470MHz, 4W, NKP Test TX mode(s): CW (PTT) Max. Power output: 4.8 W Nominal Power: 4.0 W Tx Frequency Bands: 403-470 MHz Signaling type: FM Model(s) Tested: PMUE4147A Model(s) Certified: PMUE4147A Serial Number(s): 752TOB0112 Classification: Occupational/Controlled FCC ID: ABZ99FT4094; Rule Part 90 (406.1-470 MHz) IC: 109AB-99FT4094; (406.1-430 and 450-470 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.	
 EMS EME Lab Senior Resource Manager, Laboratory Director Approval Date: 4/17/2013	Certification Date: 4/17/2013 Certification No.: L1130406P

Appendix D

Test System Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/20/2013 6:51:37 AM

Robot#: DASY4-PG-1 | Run#: CcC-SYSP-450B-130220-01
 Dipole Model#: D450V2
 Phantom#: ELI5 1147
 Tissue Temp: 20.9 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.046 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

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: 1.100 mW/g (1g); 0.734 mW/g (10g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)

Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

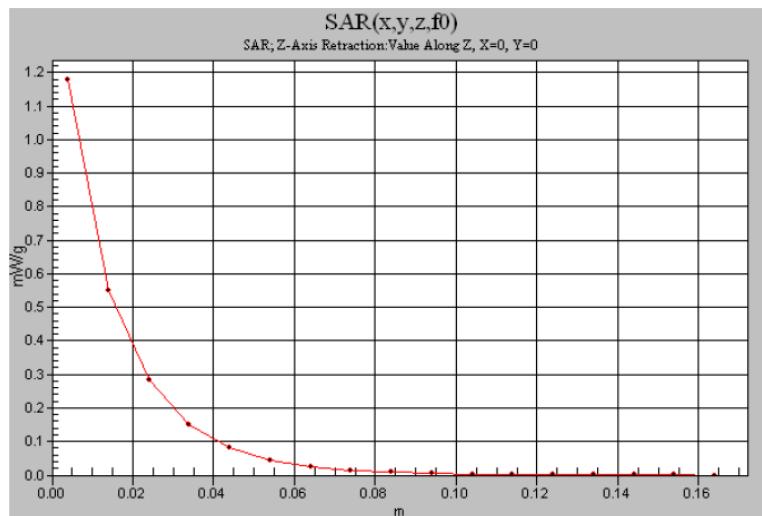
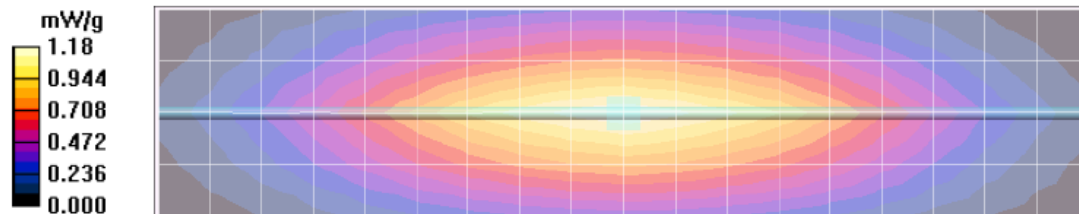
System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.4 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.734 mW/g

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

System Performance Check/Dipole Area Scan 2 (5x19x1): Measurement grid: dx=15mm, dy=15mm**System Performance Check/Z-Axis Retraction (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/21/2013 7:02:32 AM

Robot#: DASY4-PG-1 | Run#: CcC-SYSP-450B-130221-01
 Dipole Model#: D450V2
 Phantom#: ELI5 1147
 Tissue Temp: 20.8 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.044 dB
 Adjusted SAR (1W): 4.32 mW/g (1g)

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: 1.080 mW/g (1g); 0.720 mW/g (10g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)

Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

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

Reference Value = 35.2 V/m; Power Drift = -0.069 dB

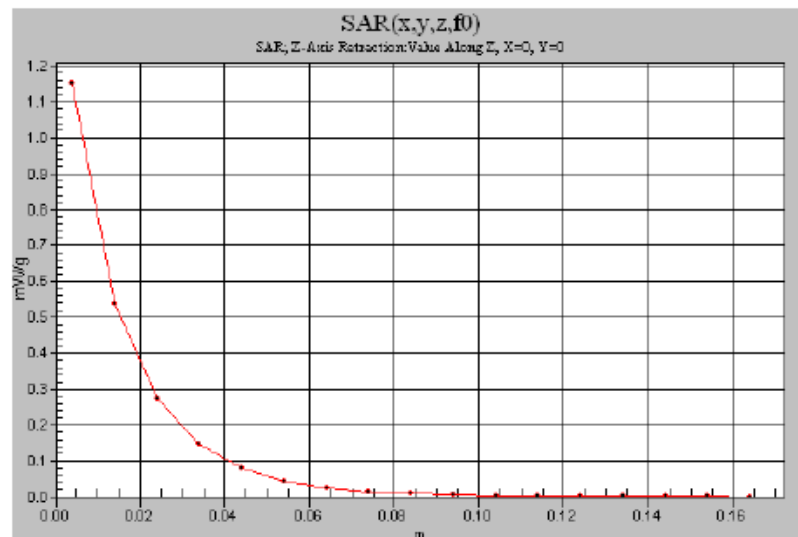
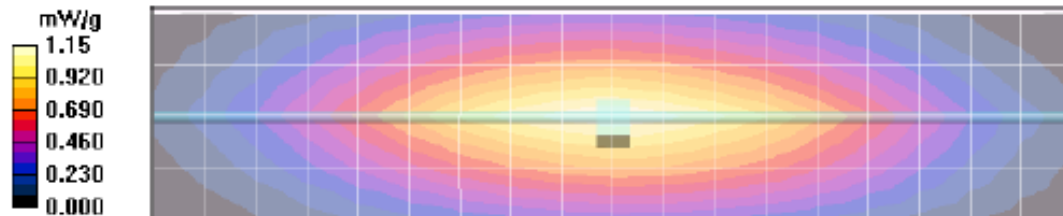
Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.720 mW/g

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

System Performance Check/Dipole Area Scan 2 (5x19x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.16 mW/g

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

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/22/2013 7:11:16 AM

Robot#: DASY4-PG-1 | Run#: CcC-SYSP-450B-130222-01
 Dipole Model#: D450V2
 Phantom#: ELI5 1147
 Tissue Temp: 21.3 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.041 dB
 Adjusted SAR (1W): 4.38 mW/g (1g)

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); 0.735 mW/g (10g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
 Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

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

Reference Value = 35.5 V/m; Power Drift = -0.00568 dB

Peak SAR (extrapolated) = 1.67 W/kg

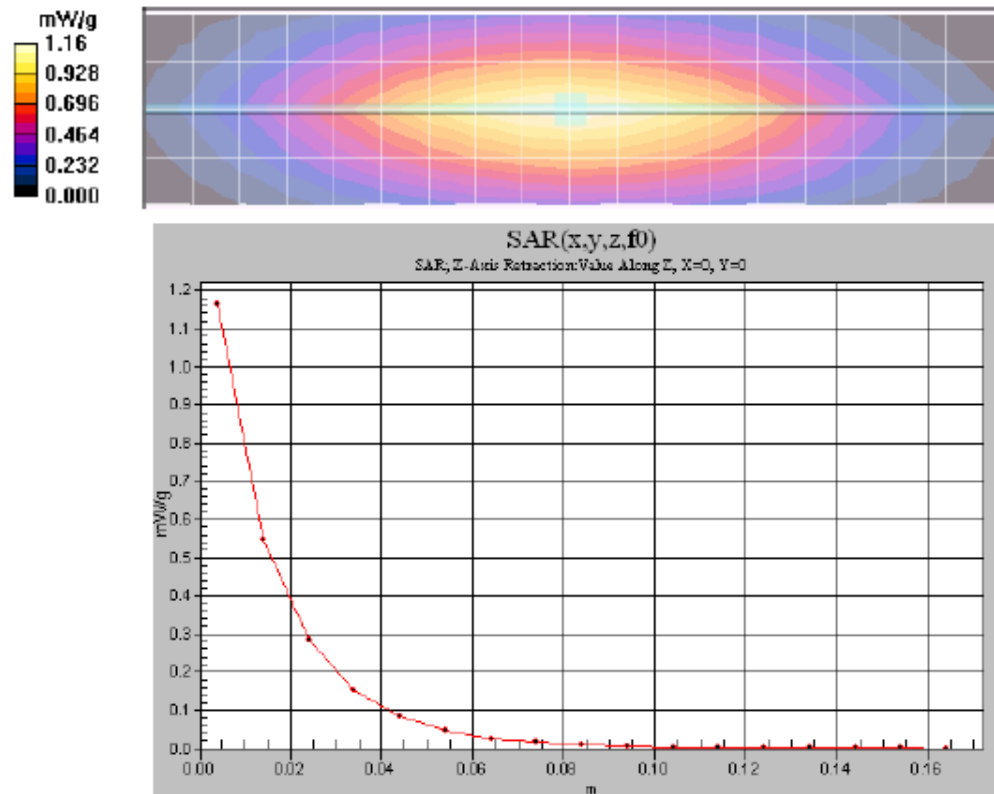
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.733 mW/g

Maximum value of SAR (measured) = 1.16 mW/g

System Performance Check/Dipole Area Scan 2 (5x19x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 mW/g

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/25/2013 7:41:50 AM

Robot#: DASY4-PG-1 | Run#: PS-SYSP-450B-130225-01
 Dipole Model#: D450V2
 Phantom#: ELI5 1147
 Tissue Temp: 21.4 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.047 dB
 Adjusted SAR (1W): 4.44 mW/g (1g)

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: 1.110 mW/g (1g); 0.739 mW/g (10g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
 Electronics: DAE4 Sml294, Calibrated: 11/13/2012

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

Reference Value = 35.5 V/m; Power Drift = - 0.000461 dB

Peak SAR (extrapolated) = 1.70 W/kg

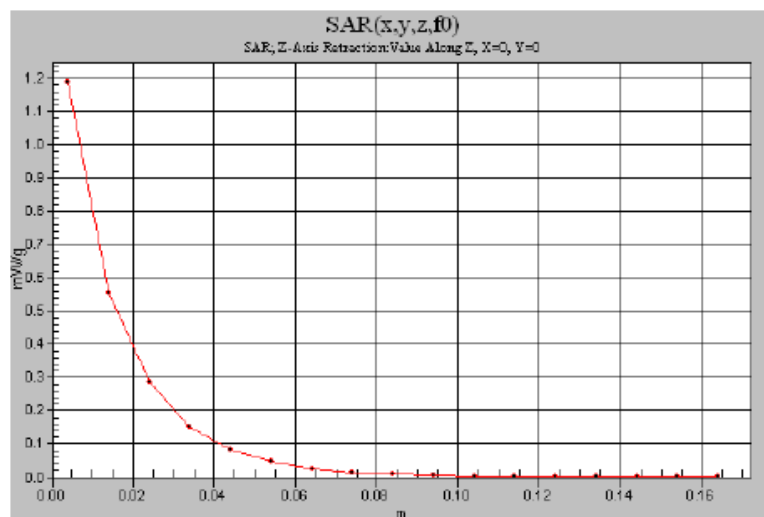
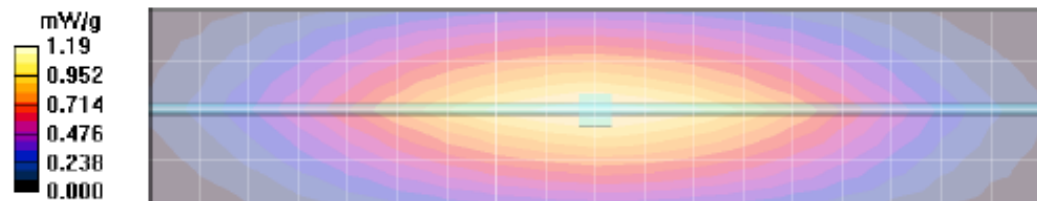
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.739 mW/g

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

System Performance Check/Dipole Area Scan 2 (5x19x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.19 mW/g

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



Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/26/2013 7:44:58 AM

Robot#: DASY4-PG-1 | Run#: PS-SYSP-450B-130226-01
Dipole Model#: D450V2
Phantom#: ELI5 1147
Tissue Temp: 21.3 (C)
Serial#: 1054
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.045 dB
Adjusted SAR (1W): 4.40 mW/g (1g)

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: 1.100 mW/g (1g); 0.731 mW/g (10g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)

Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

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

Reference Value = 35.4 V/m; Power Drift = -0.00494 dB

Peak SAR (extrapolated) = 1.70 W/kg

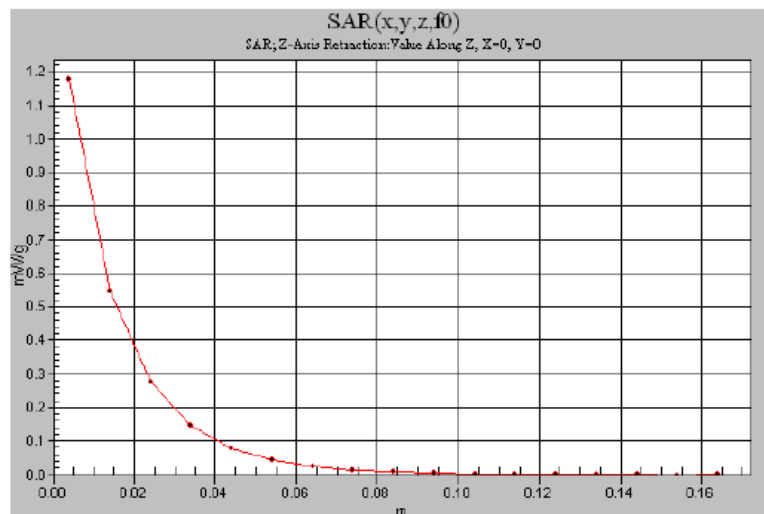
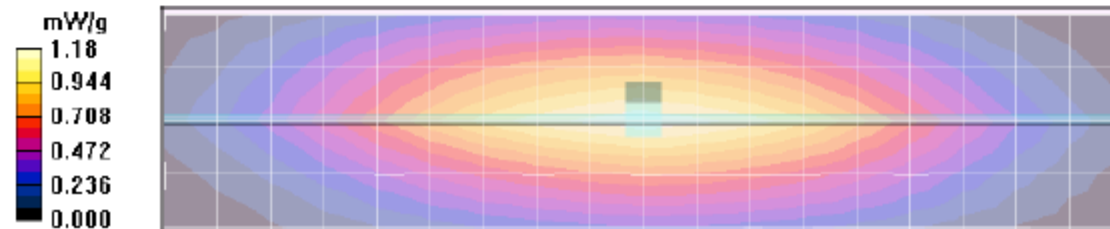
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.731 mW/g

Maximum value of SAR (measured) = 1.17 mW/g

System Performance Check/Dipole Area Scan 2 (5x19x1): 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) = 1.18 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/27/2013 6:49:46 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130227-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.1 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.037 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.18 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

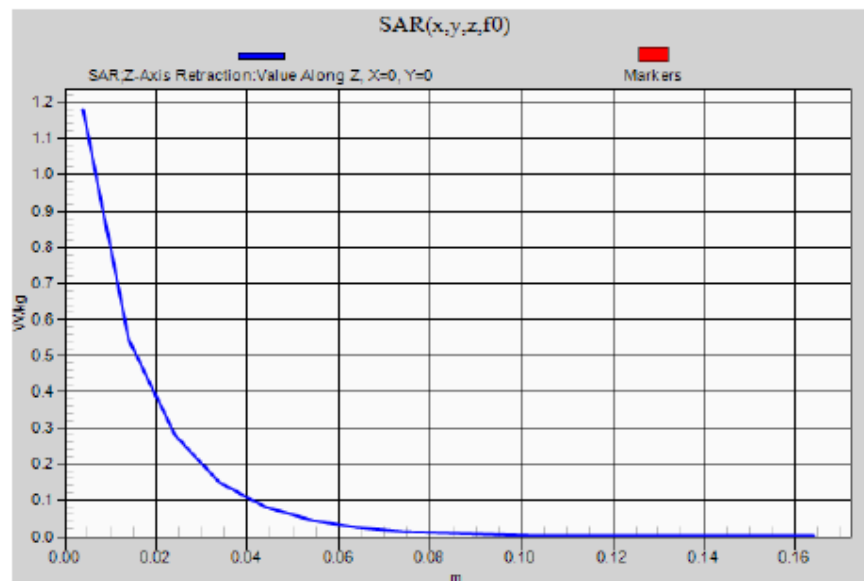
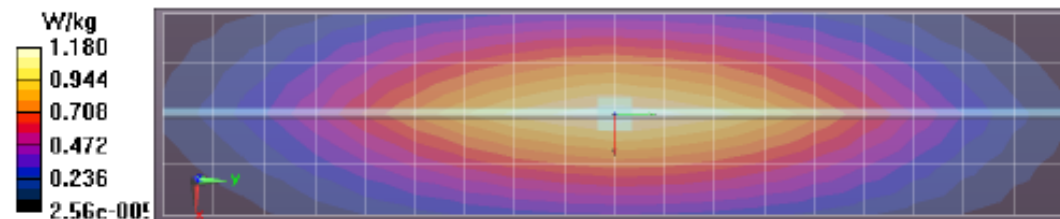
Reference Value = 35.355 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.710 mW/g

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.730 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/28/2013 6:31:10 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130228-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.1 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.037 dB
 Adjusted SAR (1W): 4.44 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.19 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.449 V/m; Power Drift = -0.01 dB

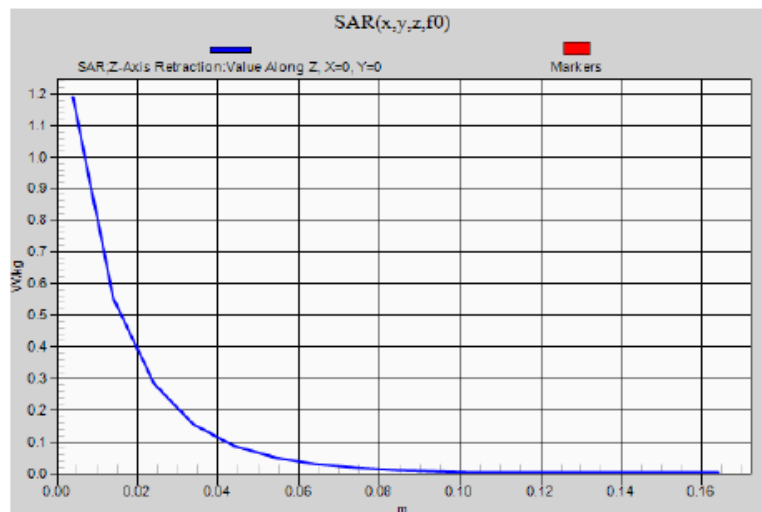
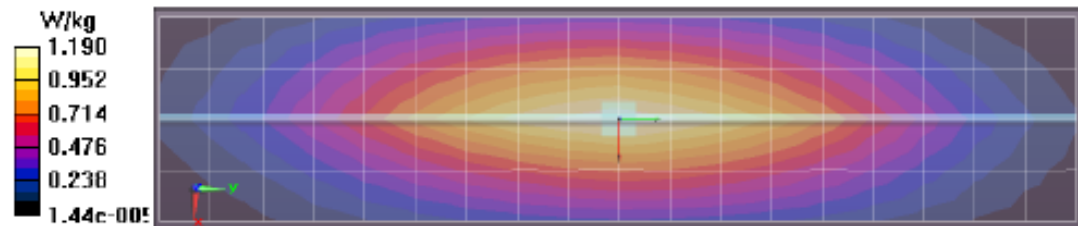
Peak SAR (extrapolated) = 1.726 mW/g

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.736 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.20 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/1/2013 6:35:19 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130301-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.0 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.048 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.449 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.716 mW/g

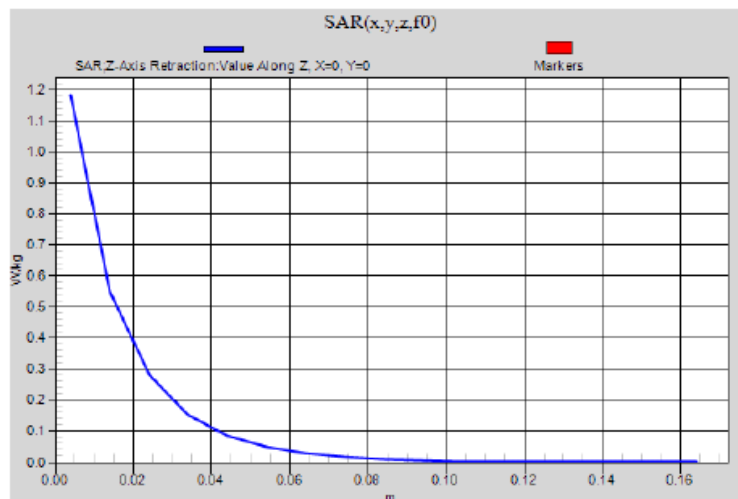
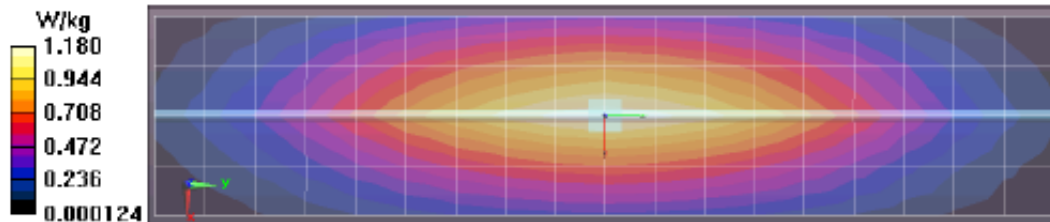
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.735 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.19 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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

Maximum value of SAR (measured) = 1.18 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/4/2013 6:40:50 AM

Robot#: DASY5-PG-2 | Run#: CcC-SYSP-450B-130304-01
Dipole Model#: D450V3
Phantom#: ELI5 1147
Tissue Temp: 21.0 (C)
Serial#: 1054
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.036 dB
Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

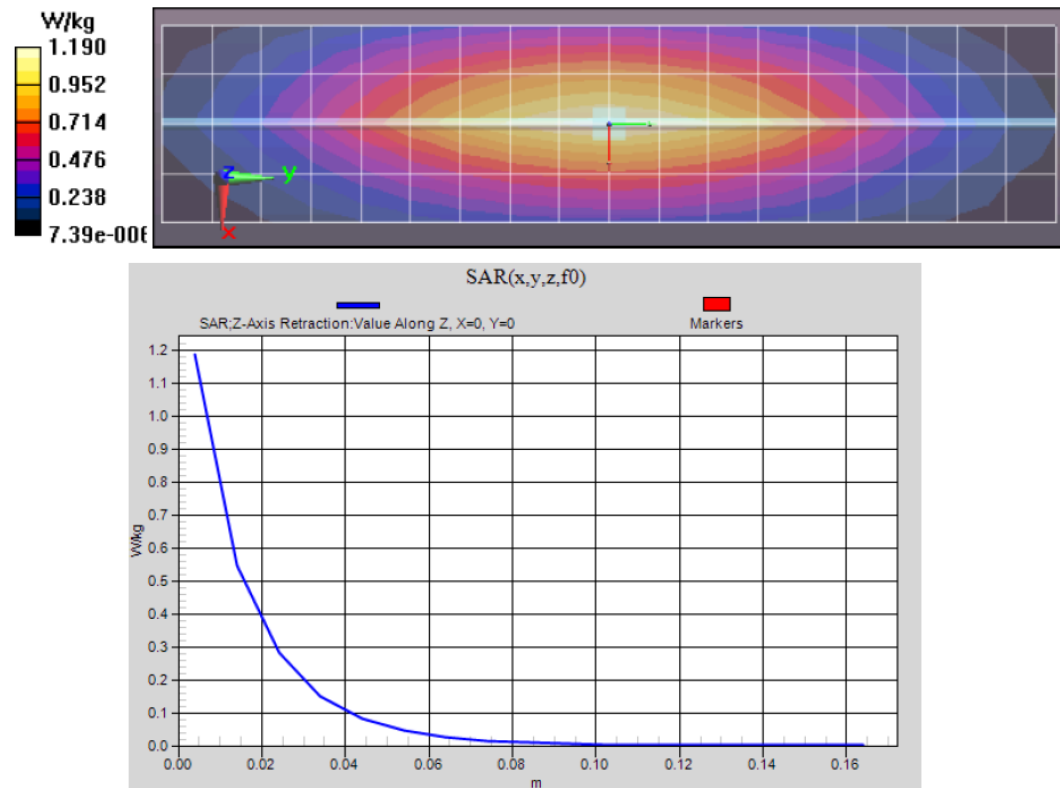
Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 35.409 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.689 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.730 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
Maximum value of SAR (measured) = 1.19 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/5/2013 6:51:02 AM

Robot#: DASY5-PG-2 | Run#: CcC-SYSP-450B-130305-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.2 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.043 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

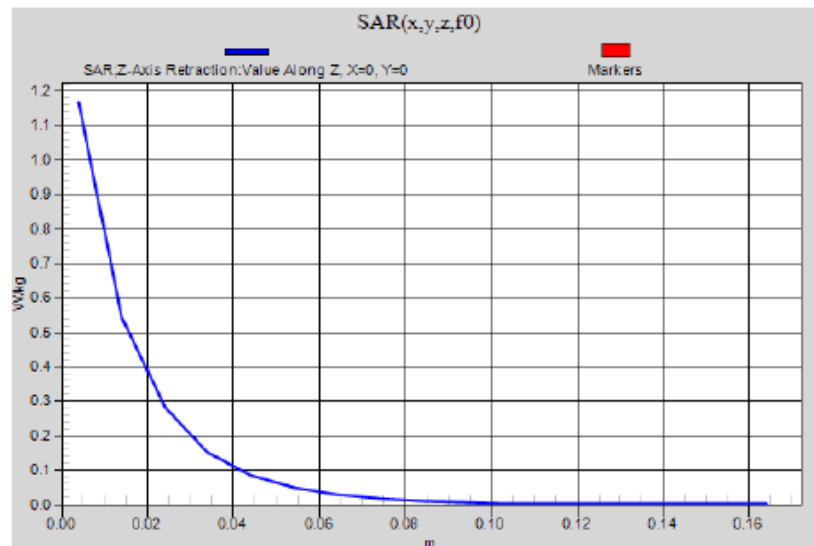
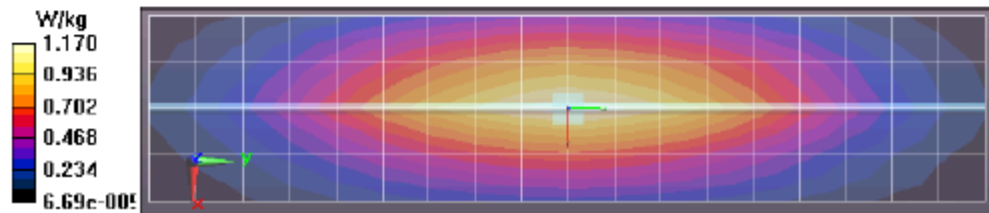
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.263 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.681 mW/g
 SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.733 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/6/2013 6:51:47 AM

Robot#: DASY5-PG-2 | Run#: CcC-SYSP-450B-130306-01
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.1 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.037 dB
 Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

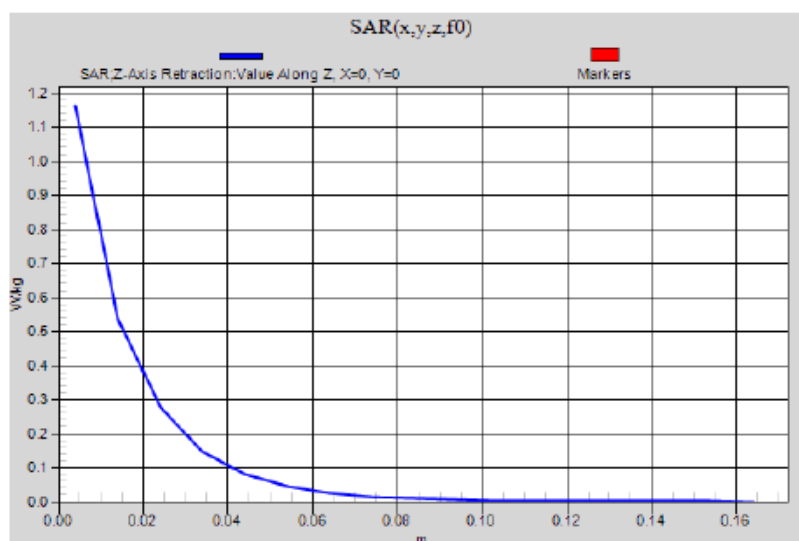
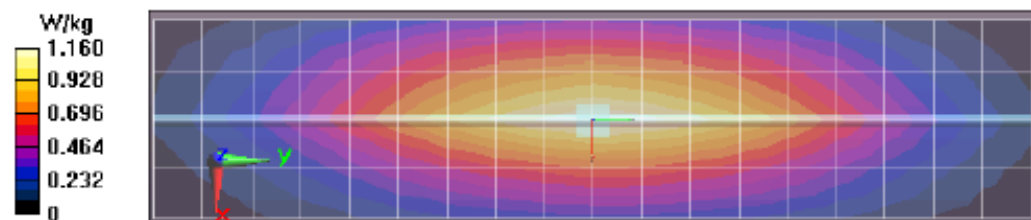
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.270 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.672 mW/g
 SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.725 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/7/2013 6:55:35 AM

Robot#: DASY5-PG-2 | Run#: CcC-SYSP-450B-130307-01
 Dipole Model# D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 20.8 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.038 dB
 Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

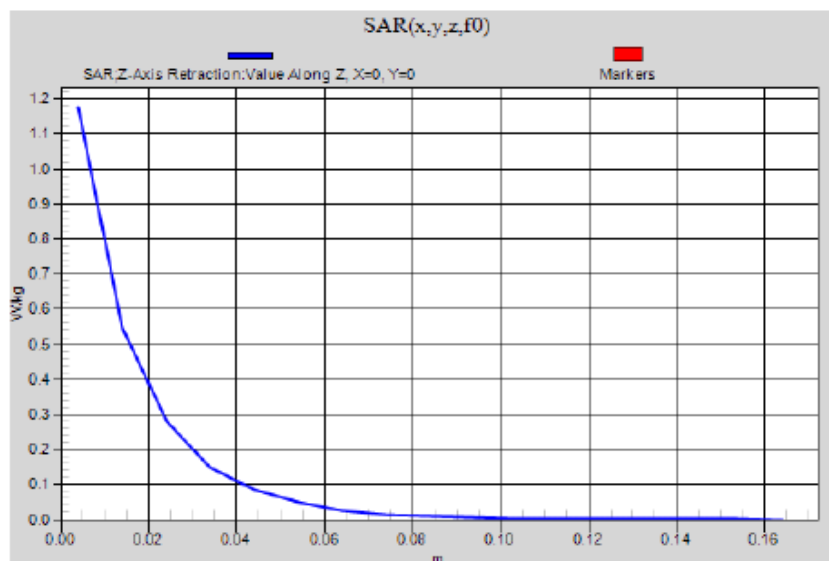
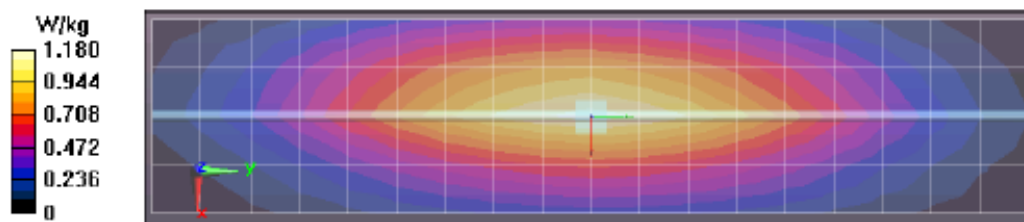
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.15 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.403 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 1.696 mW/g
 SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.729 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.18 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/8/2013 9:54:51 AM

Robot#: DASY5-PG-2 | Run#: Lee-SYSP-450B-130308-01
 Dipole Model#: D450V3
 Phantom#: ELIS 1147
 Tissue Temp: 21.0 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.035 dB
 Adjusted SAR (1W): 4.32 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

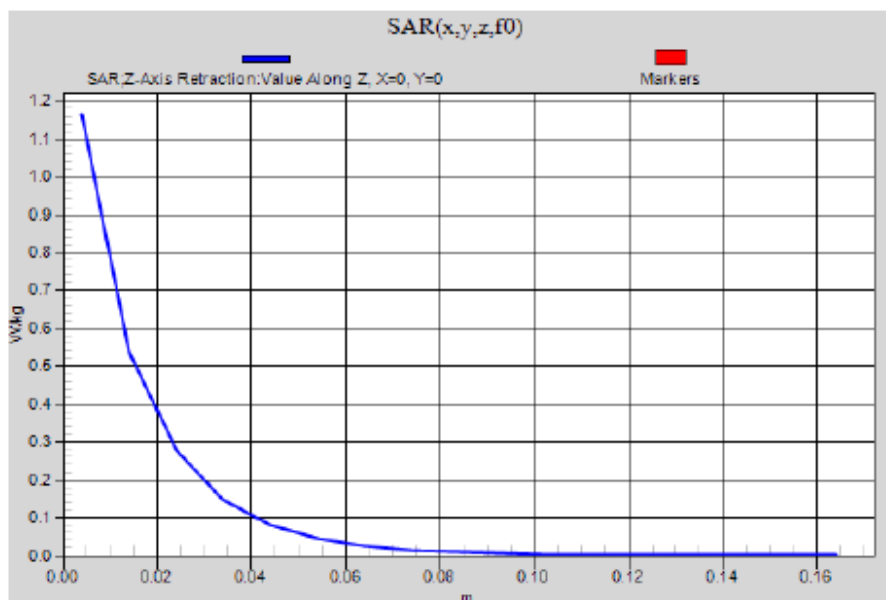
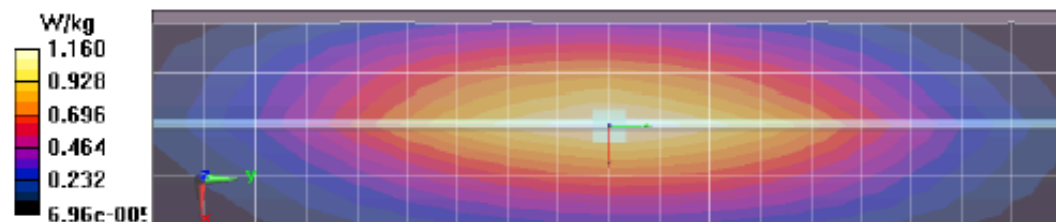
Reference Value = 35.218 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.676 mW/g

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.719 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/11/2013 6:33:04 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130311-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.7 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.041 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

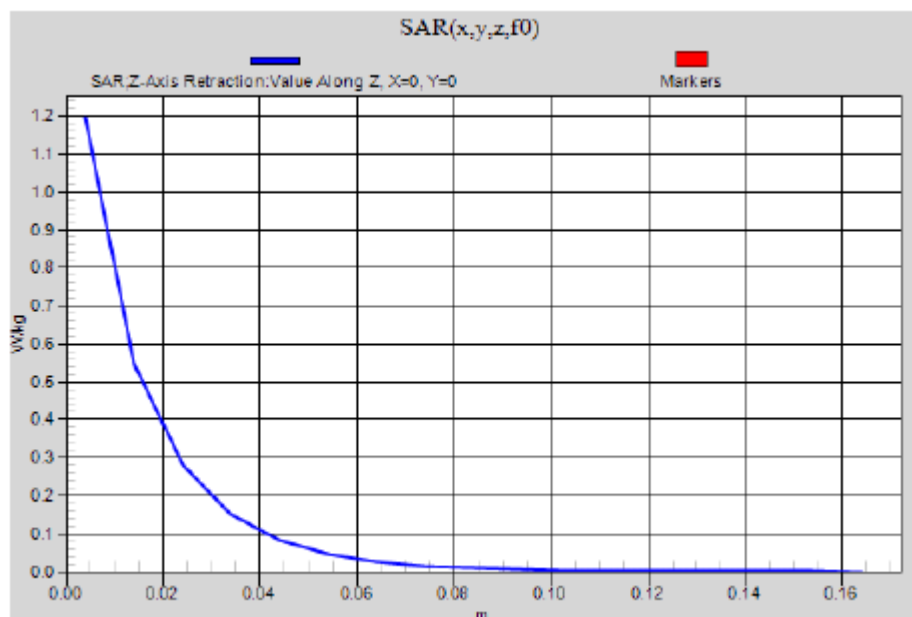
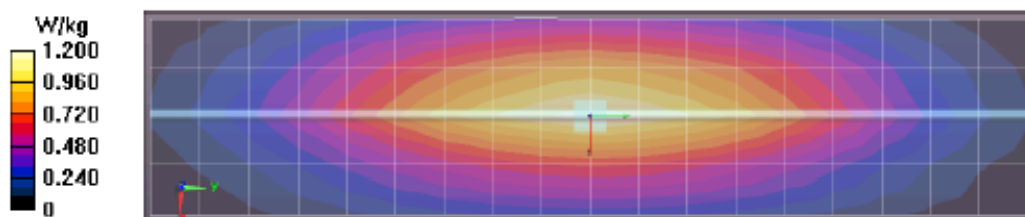
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.228 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.725 mW/g
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.730 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.19 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.20 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/12/2013 6:30:29 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130312-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.1 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.051 dB
 Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.367 V/m; Power Drift = 0.01 dB

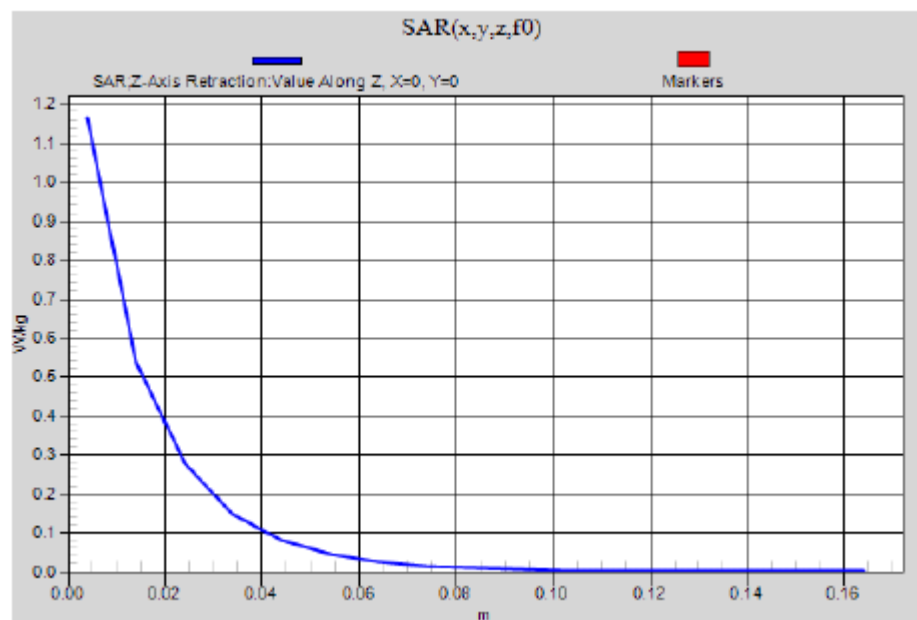
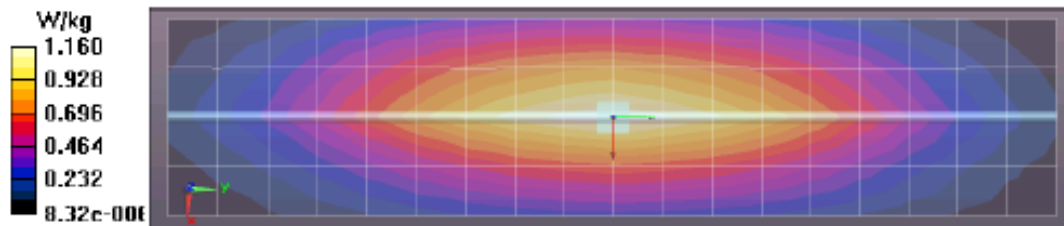
Peak SAR (extrapolated) = 1.692 mW/g

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.727 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/13/2013 6:42:01 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130313-01
 Dipole Model#: D450V3
 Phantom#: ELL15 1147
 Tissue Temp: 21.2 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.05 dB
 Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.13 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.412 V/m; Power Drift = -0.01 dB

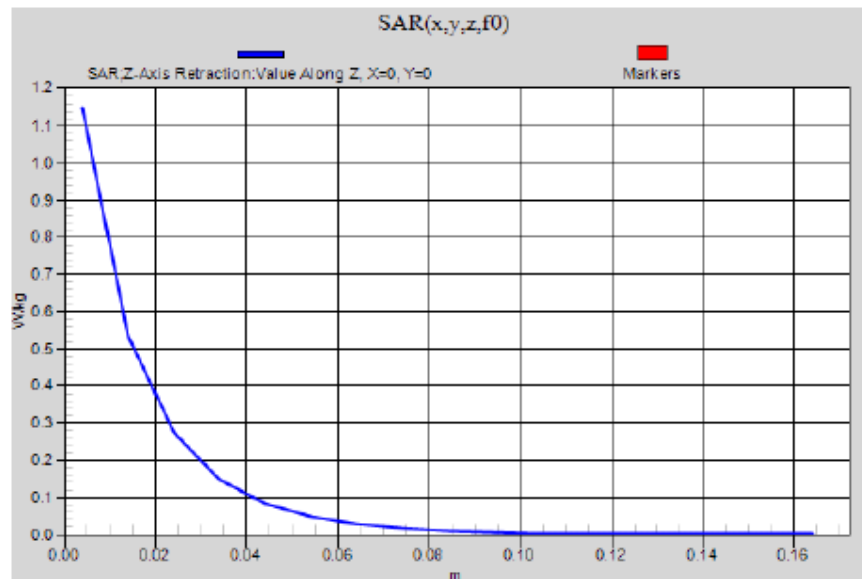
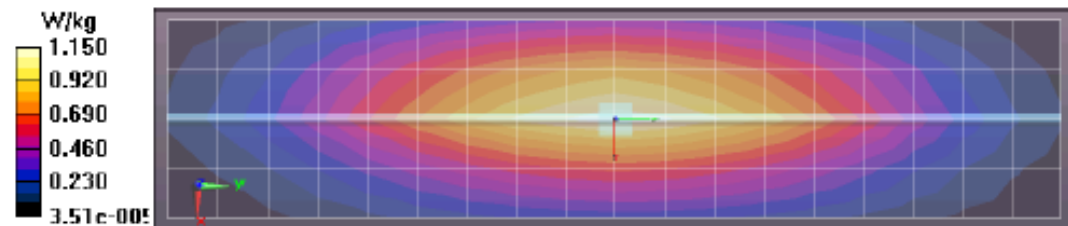
Peak SAR (extrapolated) = 1.662 mW/g

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.723 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.15 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/14/2013 6:28:27 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450B-130314-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.2 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.045 dB
 Adjusted SAR (1W): 4.36 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.15 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.227 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.696 mW/g

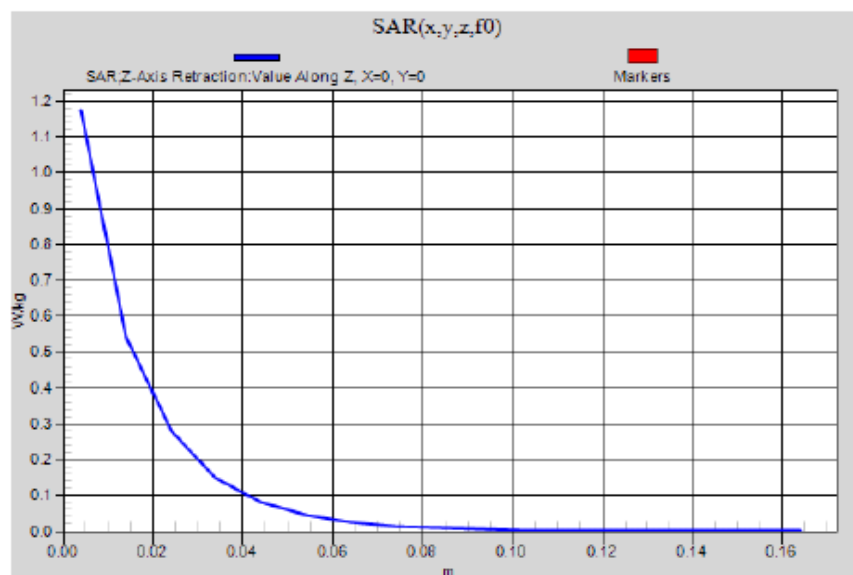
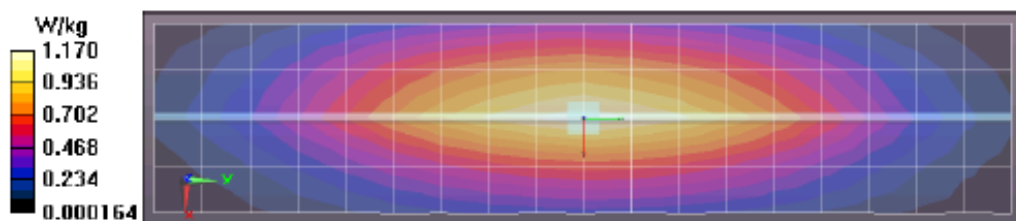
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.723 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.18 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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

Maximum value of SAR (measured) = 1.17 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/14/2013 8:39:49 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450H-130314-04
 Dipole Model#: D450V3
 Phantom#: ELI4 1037
 Tissue Temp: 21.2 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.045 dB
 Adjusted SAR (1W): 4.60 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 43.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(6.5, 6.5, 6.5); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

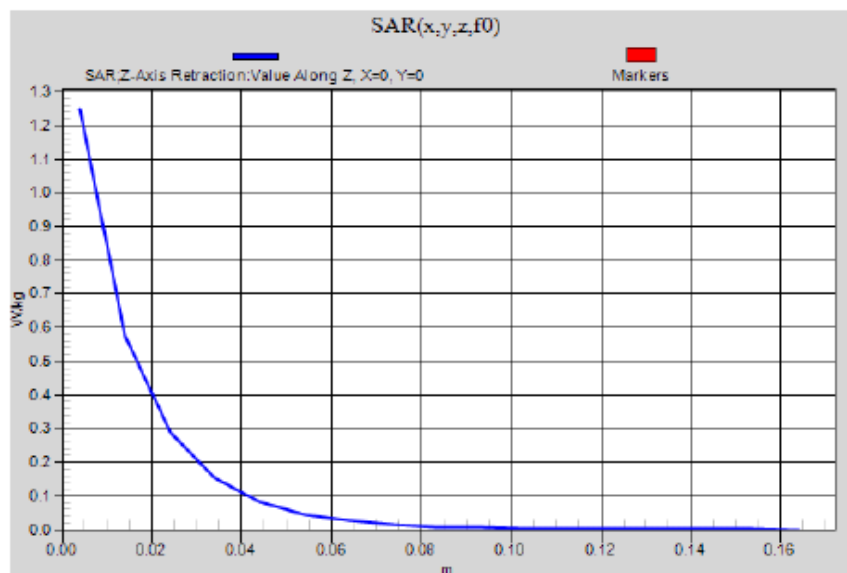
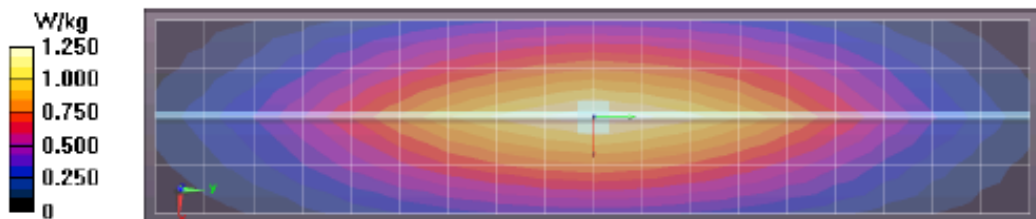
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.24 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 37.793 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 1.741 mW/g
 SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.765 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.25 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/15/2013 6:26:39 AM

Robot#: DASY5-PG-2 | Run#: PS-SYSP-450H-130315-01
 Dipole Model#: D450V3
 Phantom#: ELI4 1037
 Tissue Temp: 21.2 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.038 dB
 Adjusted SAR (1W): 4.60 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 43.7$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(6.5, 6.5, 6.5); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.23 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 37.956 V/m; Power Drift = -0.01 dB

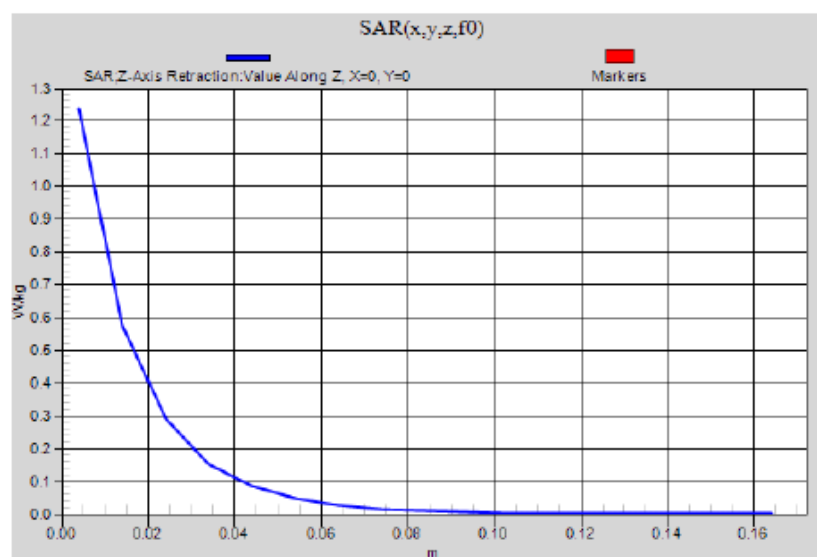
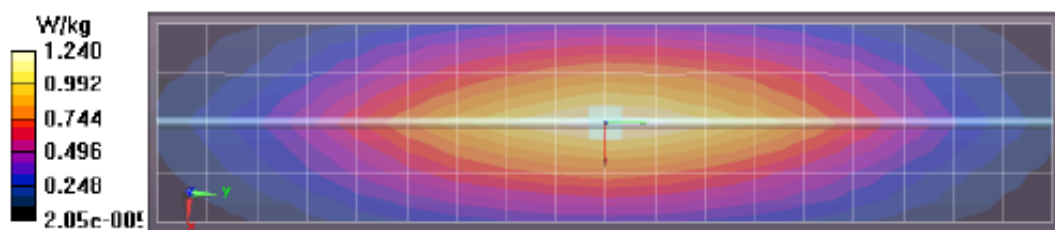
Peak SAR (extrapolated) = 1.734 mW/g

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.769 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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

Maximum value of SAR (measured) = 1.24 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 6:36:35 AM

Robot#: DASY5-PG-2 | Run#: CcC-SYSP-450B-130318-01
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Tissue Temp: 21.1 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.039 dB
 Adjusted SAR (1W): 4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

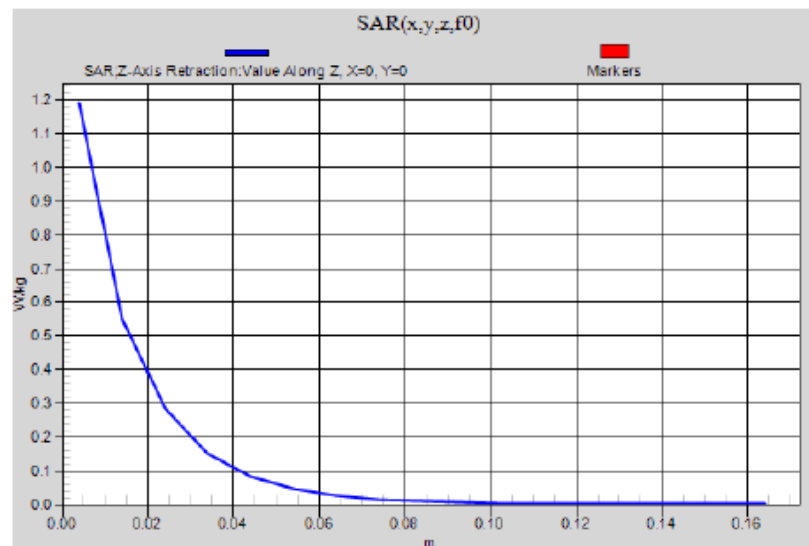
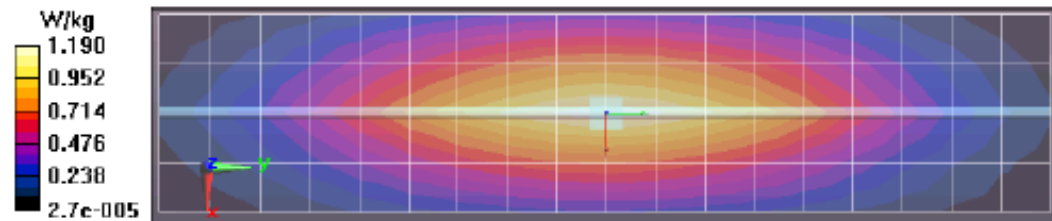
Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 1.17 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 35.303 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.711 mW/g
 SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.731 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.19 W/kg

Below 3 GHz-Rev.4a/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: 4/5/2013 2:17:39 PM

Robot#: DASY5-PG-2 | Run#: Lee-SYSP-450B-130405-01
 Dipole Model#: D450V3
 Phantom#: ELI4 1050
 Tissue Temp: 21.3 (C)
 Serial#: 1054
 Test Freq: 450 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.097 dB
 Adjusted SAR (1W): 4.32 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 55.4$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x19x1):

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

Maximum value of SAR (measured) = 1.15 W/kg

Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

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

Reference Value = 35.274 V/m; Power Drift = -0.00 dB

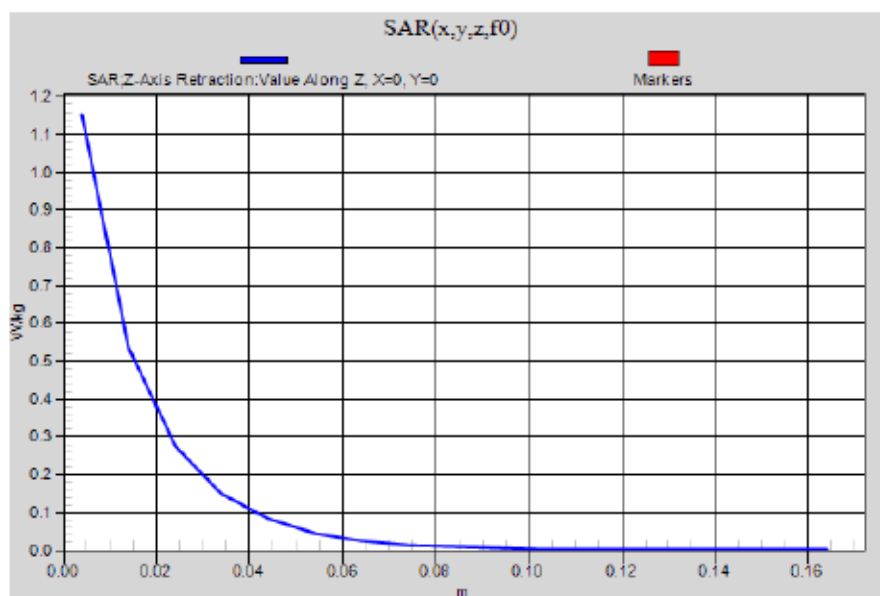
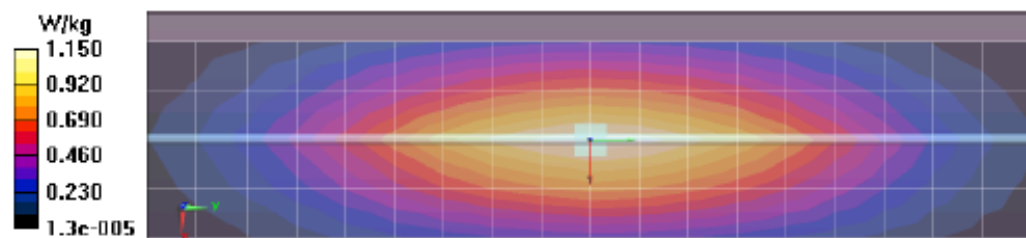
Peak SAR (extrapolated) = 1.684 mW/g

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.718 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.16 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):

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



Appendix E
Worst Case for Band 406.1 – 470 MHz
DUT Scans (Highest SAR configurations)

Body - Highest SAR Configuration Result Table 24

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/13/2013 10:38:44 AM

Robot#: DASY5-PG-2 | Run#: PS-AB-130313-07
Model#: PMUE4147A
Phantom#: ELI5 1147
Tissue Temp: 20.6 (C)
Serial#: 752TOB0112
Antenna: PMAE4003A
Test Freq: 446.000 (MHz)
Battery: PMNN4253AR
Carry Acc: HLN6602A
Audio Acc: PMLN6539A
Start Power: 4.70 (W)

Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 446 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 115.3 V/m; Power Drift = -0.49 dB

Fast SAR: SAR(1 g) = 11 mW/g; SAR(10 g) = 7.99 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.5 W/kg

Below 3 GHz-Rev.5/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) = 11.1 W/kg

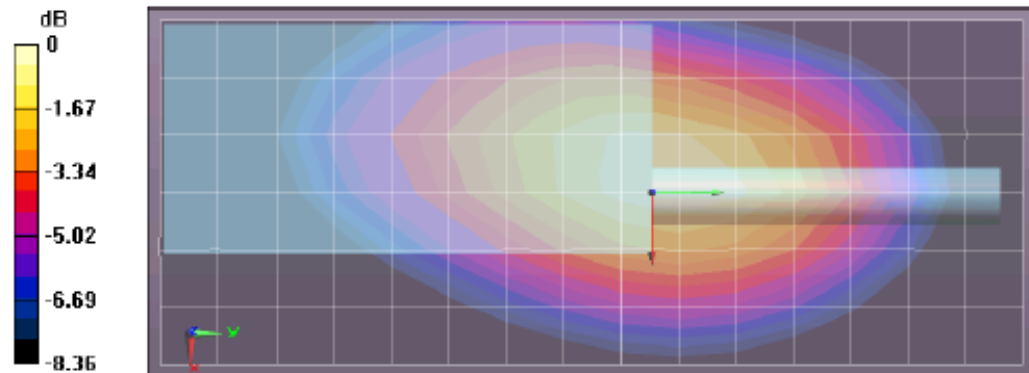
Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 123.1 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 17.160 mW/g

SAR(1 g) = 12.3 mW/g; SAR(10 g) = 8.84 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 12.9 W/kg



Face - Highest SAR Configuration Result Table 20

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/14/2013 5:50:44 PM

Robot#: DASY5-PG-2 | Run#: Lee-FACE-130314-19
Model#: PMUE4147A
Phantom#: ELI4 1037
Tissue Temp: 21.1 (C)
Serial#: 752TOB0112
Antenna: PMAE4003A
Test Freq: 456.700 (MHz)
Battery: NNTN4497CR
Carry Acc: NONE
Audio Acc: NONE
Start Power: 4.75 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 457$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 43.6$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3274, , ConvF(6.5, 6.5, 6.5); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 92.819 V/m; Power Drift = -0.47 dB

Fast SAR: SAR(1 g) = 6.71 mW/g; SAR(10 g) = 4.97 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 7.06 W/kg

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

Reference Value = 92.819 V/m; Power Drift = -0.63 dB

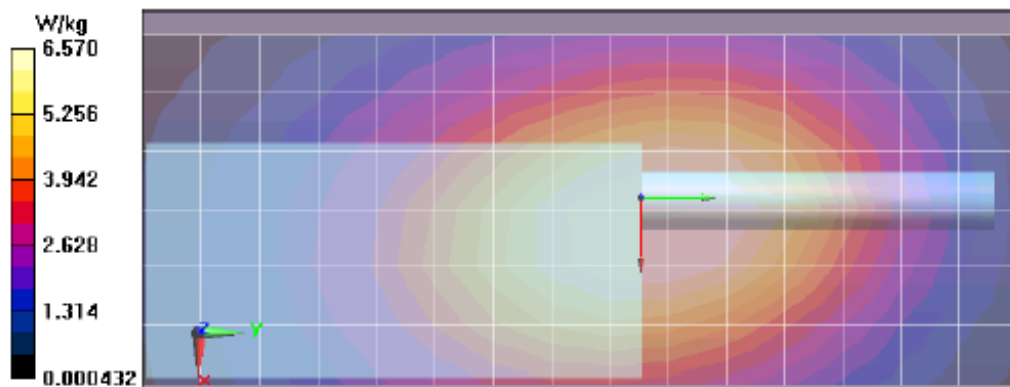
Peak SAR (extrapolated) = 8.436 mW/g

SAR(1 g) = 6.39 mW/g; SAR(10 g) = 4.74 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.72 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.57 W/kg



APPENDIX F

DUT Scans (Shorten scan and Variability scan)

Shortened Scan and Variability Scan Result Table 29

Motorola Solutions, Inc. EME Laboratory
Date/Time: 4/5/2013 3:16:35 PM

Robot#: DASY5-PG-2 | Run#: Lee-AB-130405-02
Model#: PMUE4147A
Phantom#: ELI4 1050
Tissue Temp: 21.2 (C)
Serial#: 752TOB0112
Antenna: PMAE4003A
Test Freq: 446.000 (MHz)
Battery: PMNN4253AR
Carry Acc: HLN6602A
Audio Acc: PMLN6539A
Start Power: 4.68 (W)

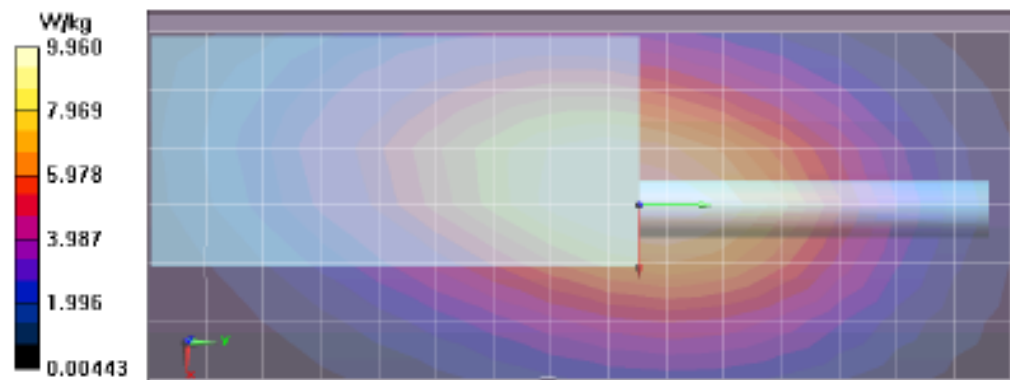
Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 446 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$
Probe: ES3DV3 - SN3274, , ConnF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Reference Value = 106.9 V/m; Power Drift = -0.30 dB
Fast SAR: SAR(1 g) = 9.67 mW/g; SAR(10 g) = 7.12 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 10.2 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 113.1 V/m; Power Drift = -0.25 dB
Peak SAR (extrapolated) = 15.545 mW/g
SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.93 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 11.6 W/kg

Below 3 GHz-Rev.5/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) = 9.96 W/kg



Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 6.03 mW/g; 10-g Avg. = 4.31 mW/g.

APPENDIX G
DUT Scans - FCC Part 90 (406.1 – 470 MHz)

*All scans are applicable for overall band and Industry Canada

Assessments at the Body with Body worn RLN5644A

Table 14

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/21/2013 1:55:30 PM

Robot#: DASY4-PG-1 | Run#: Lee-AB-130221-09
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.9 (C)
 Serial#: 752TOB0112
 Antenna: NAE6522AR
 Test Freq: 438.000 (MHz)
 Battery: PMNN4253AR
 Carry Acc: RLN5644A
 Audio Acc: PMMN4013A
 Start Power: 4.74 (W)

Note:

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

Reported SAR: 5.062 mW/g (1g); 3.709 mW/g (10g)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 438$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
 Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Ab Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 77.2 V/m; Power Drift = -0.570 dB

Motorola Fast SAR: SAR(1 g) = 5.24 mW/g; SAR(10 g) = 3.86 mW/g

Maximum value of SAR (interpolated) = 5.53 mW/g

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

Reference Value = 77.2 V/m; Power Drift = -0.731 dB

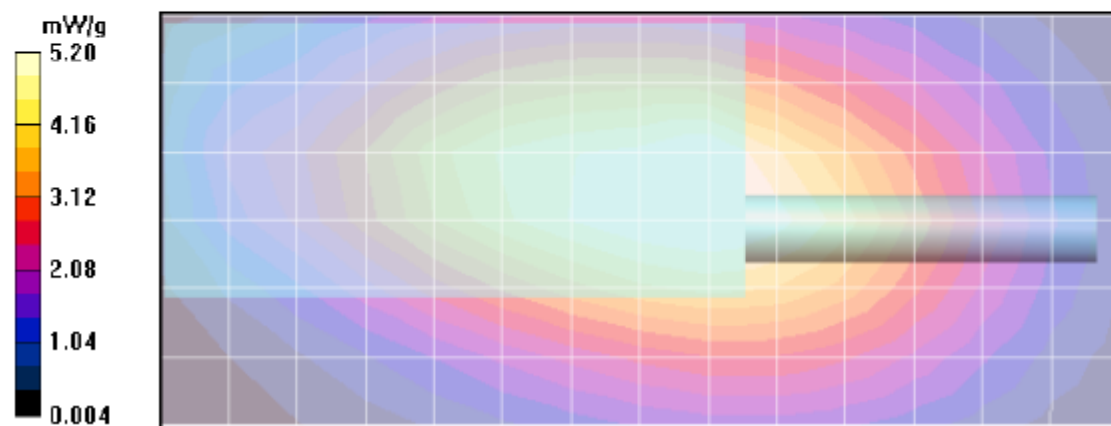
Peak SAR (extrapolated) = 6.94 W/kg

SAR(1 g) = 5.04 mW/g; SAR(10 g) = 3.7 mW/g

Maximum value of SAR (measured) = 5.28 mW/g

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

Maximum value of SAR (measured) = 5.20 mW/g



Assessment at the Body with Body worn HLN8255B

Table 15

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/21/2013 6:05:55 PM

Robot#: DASY4-PG-1 | Run#: PS-AB-130221-15
Model#: PMUE4147A
Phantom#: ELI5 1147
Tissue Temp: 20.8 (C)
Serial#: 752TOB0112
Antenna: NAE6522AR
Test Freq: 438.000 (MHz)
Battery: NNTN4970A
Carry Acc: HLN8255B
Audio Acc: PMMN4013A
Start Power: 4.64 (W)

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

Reported SAR: 5.163 mW/g (1g); 3.779 mW/g (10g)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 438$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Ab Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 81.3 V/m; Power Drift = -0.756 dB

Motorola Fast SAR: SAR(1 g) = 5.44 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (interpolated) = 5.73 mW/g

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

Reference Value = 81.3 V/m; Power Drift = -0.922 dB

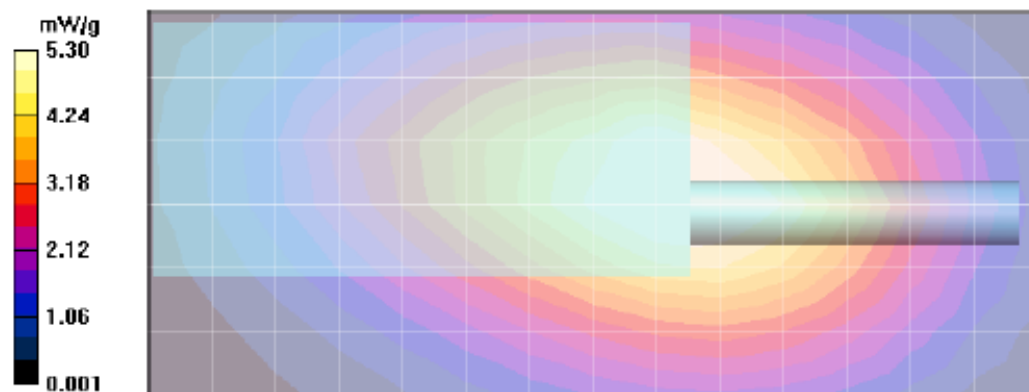
Peak SAR (extrapolated) = 7.08 W/kg

SAR(1 g) = 5.14 mW/g; SAR(10 g) = 3.77 mW/g

Maximum value of SAR (measured) = 5.40 mW/g

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

Maximum value of SAR (measured) = 5.30 mW/g



Assessment at the Body with Body worn RLN5383A

Table 16

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/26/2013 5:00:48 PM

Robot#: DASY4-PG-1 | Run#: Lee-AB-130226-10
Model#: PMUE4147A
Phantom#: ELI5 1147
Tissue Temp: 20.3 (C)
Serial#: 752TOB0112
Antenna: NAE6522AR
Test Freq: 438.000 (MHz)
Battery: NNTN4851A
Carry Acc: RLN5383A
Audio Acc: PMMN4013A
Start Power: 4.62 (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: 2.210 mW/g (1g); 0.910 mW/g (10g)

Comments: Full Scan.

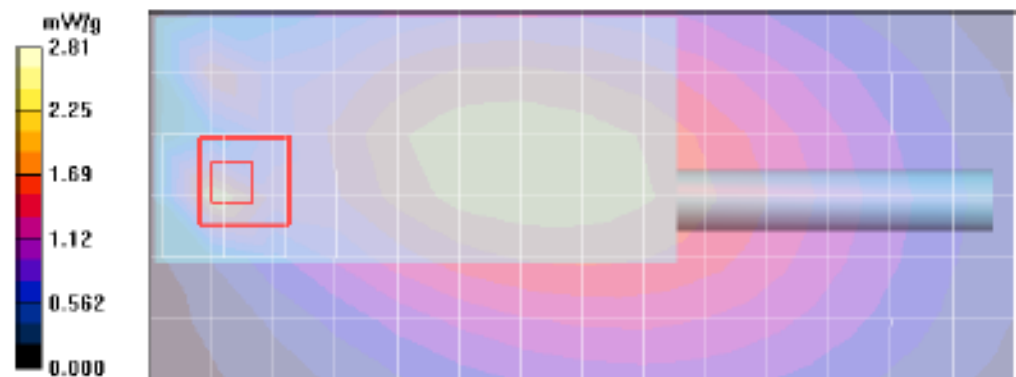
Duty Cycle: 1:1, Medium parameters used: $f = 438$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Ab Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 44.9 V/m; Power Drift = -0.617 dB
Motorola Fast SAR: SAR(1 g) = 1.8 mW/g; SAR(10 g) = 1.34 mW/g
Maximum value of SAR (interpolated) = 2.43 mW/g

Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 44.9 V/m; Power Drift = -0.723 dB
Peak SAR (extrapolated) = 9.05 W/kg
SAR(1 g) = 2.2 mW/g; SAR(10 g) = 0.908 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) = 2.44 mW/g

Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.81 mW/g



Assessment at the Body with Body worn HLN9701B **Table 17**

Motorola Solutions, Inc. EME Laboratory **Date/Time: 2/27/2013 12:51:11 PM**

Robot#: DASY5-PG-2 | Run#: PS-AB-130227-10
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.7 (C)
 Serial#: 752TOB0112
 Antenna: NAE6522AR
 Test Freq: 438.000 (MHz)
 Battery: NNTN4970A
 Carry Acc: HLN9701B
 Audio Acc: PMMN4013A
 Start Power: 4.68 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 438$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 79.046 V/m; Power Drift = -0.63 dB

Fast SAR: SAR(1 g) = 5.14 mW/g; SAR(10 g) = 3.78 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.41 W/kg

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

Reference Value = 79.046 V/m; Power Drift = -0.74 dB

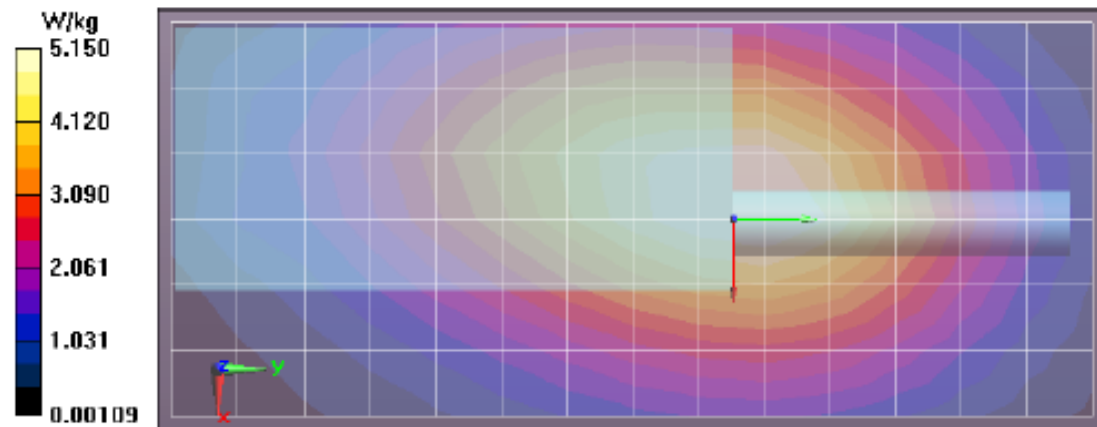
Peak SAR (extrapolated) = 6.816 mW/g

SAR(1 g) = 4.93 mW/g; SAR(10 g) = 3.61 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.20 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 5.15 W/kg



Assessment at the Body with Body worn RLN5385B
Table 18

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/28/2013 4:52:37 PM

Robot#: DASY5-PG-2 | Run#: CcC-AB-130228-14
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.7 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4003A
 Test Freq: 430.000 (MHz)
 Battery: NNTN4851A
 Carry Acc: RLN5385B
 Audio Acc: PMMN4013A
 Start Power: 4.64 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 430$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 47.772 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.6 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.24 W/kg

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

Reference Value = 47.772 V/m; Power Drift = -0.41 dB

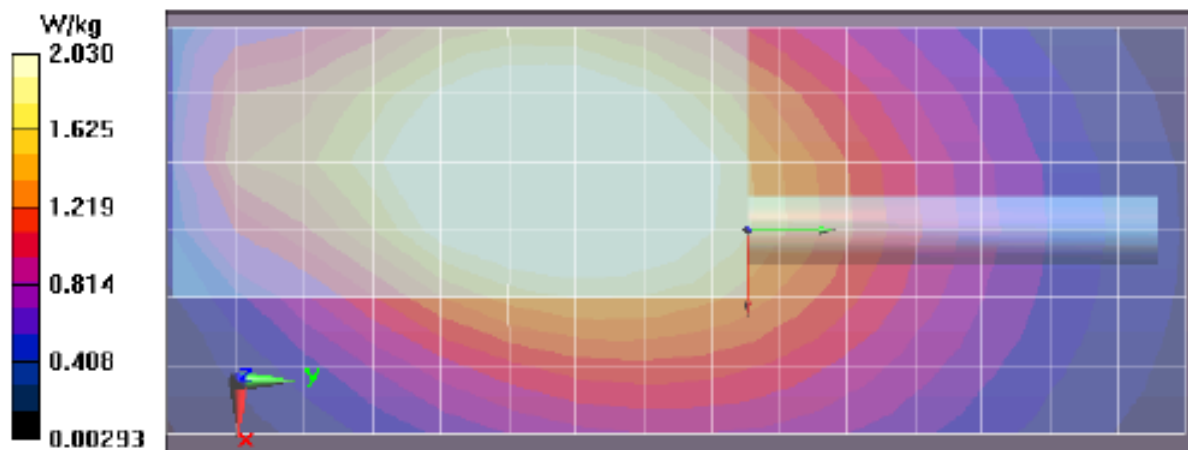
Peak SAR (extrapolated) = 2.748 mW/g

SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.59 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.18 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.03 W/kg



Assessment at the Body with Body worn HLN6602A

Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/5/2013 7:23:54 AM

Robot#: DASY5-PG-2 | Run#: CcC-AB-130305-02
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 21.2 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4003A
 Test Freq: 446.000 (MHz)
 Battery: PMNN4253AR
 Carry Acc: HLN6602A
 Audio Acc: PMMN4013A
 Start Power: 4.69 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 446$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 110.1 V/m; Power Drift = -0.45 dB

Fast SAR: SAR(1 g) = 11 mW/g; SAR(10 g) = 8.05 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.5 W/kg

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

Reference Value = 110.1 V/m; Power Drift = -0.55 dB

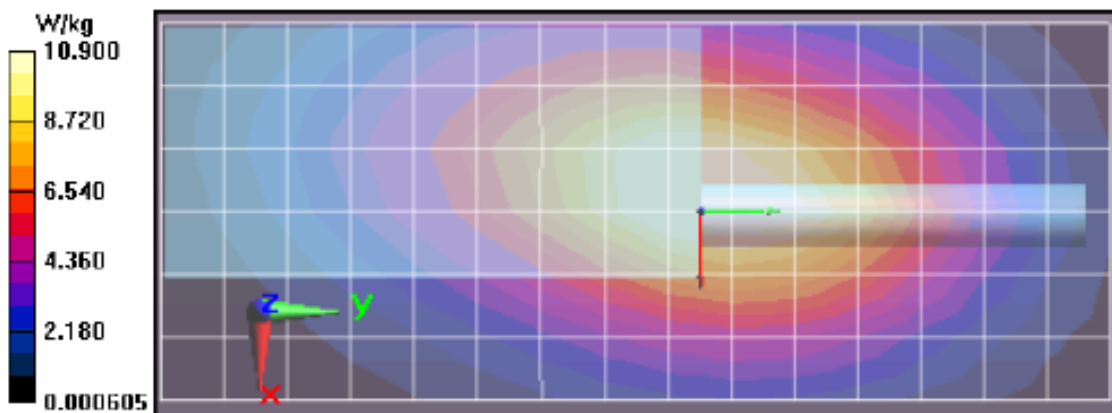
Peak SAR (extrapolated) = 14.574 mW/g

SAR(1 g) = 10.5 mW/g; SAR(10 g) = 7.62 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 11.0 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 10.9 W/kg



Assessment at the Body with Body worn RLN4815A **Table 20**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/6/2013 7:56:07 AM

Robot#: DASY5-PG-2 | Run#: CcC-AB-130306-03
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.6 (C)
 Serial#: 752TOB0112
 Antenna: NAE6522AR
 Test Freq: 438.000 (MHz)
 Battery: PMMN4253AR
 Carry Acc: RLN4815A
 Audio Acc: PMMN4013A
 Start Power: 4.76 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 438 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 72.921 V/m; Power Drift = -0.68 dB

Fast SAR: SAR(1 g) = 4.35 mW/g; SAR(10 g) = 3.22 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.53 W/kg

Below 3 GHz-Rev.5/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 = 72.921 V/m; Power Drift = -0.82 dB

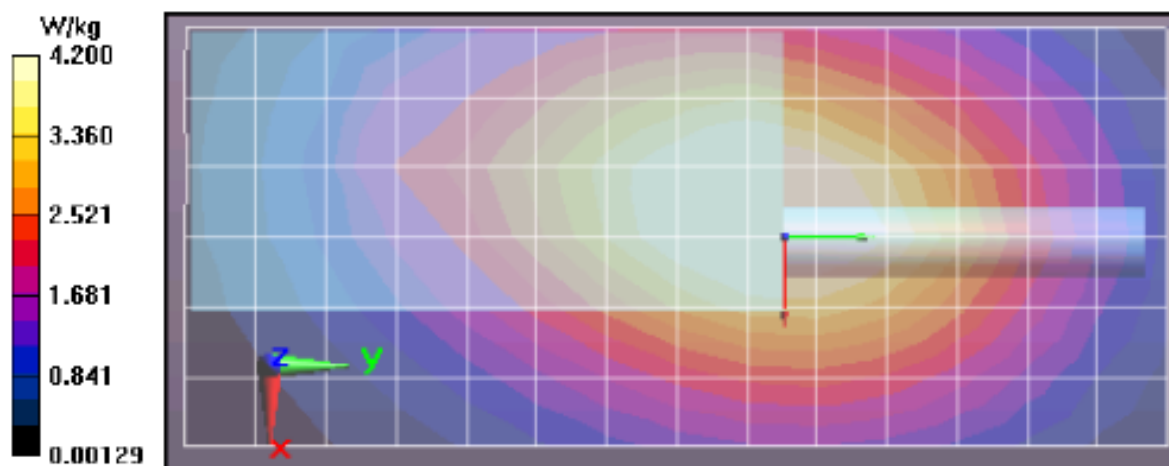
Peak SAR (extrapolated) = 5.502 mW/g

SAR(1 g) = 4.13 mW/g; SAR(10 g) = 3.06 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.27 W/kg

Below 3 GHz-Rev.5/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) = 4.20 W/kg



Assessment at the Body with Body worn RLN5383A (fixed belt loop) with NTN5243A carry strap

Table 21

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/6/2013 6:05:12 PM

Robot#: DASY5-PG-2 | Run#: PS-AB-130306-17
 Model#: PMUE4147A
 Phantom#: ELIS 1147
 Tissue Temp: 20.2 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4003A
 Test Freq: 430.000 (MHz)
 Battery: NNTN4851A
 Carry Acc: RLN5383A / NTN5243A
 Audio Acc: PMMN4013A
 Start Power: 4.57 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 430$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 46.567 V/m; Power Drift = -0.22 dB

Fast SAR: SAR(1 g) = 1.99 mW/g; SAR(10 g) = 1.49 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.52 W/kg

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

dy=7.5mm, dz=5mm

Reference Value = 46.567 V/m; Power Drift = -0.77 dB

Peak SAR (extrapolated) = 8.946 mW/g

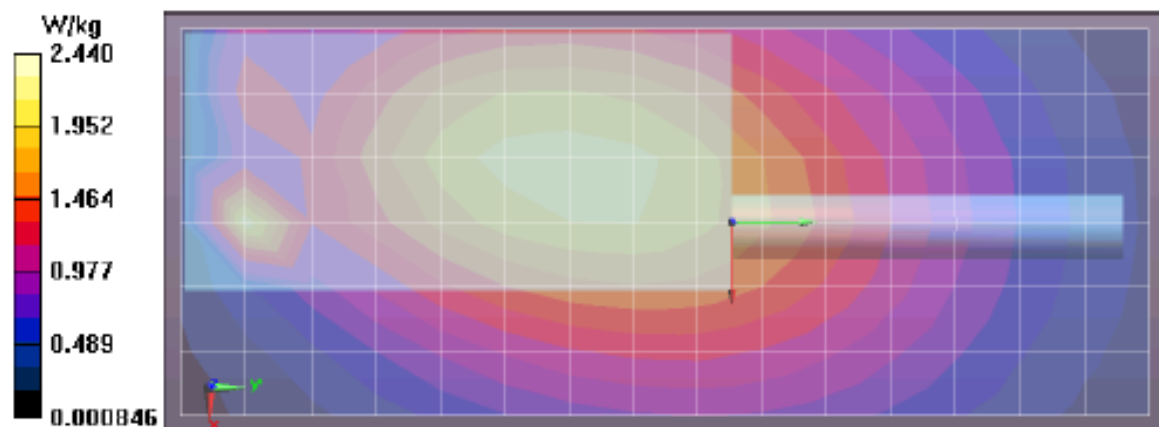
SAR(1 g) = 2.08 mW/g; SAR(10 g) = 0.890 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.02 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm,

dz=10mm

Maximum value of SAR (measured) = 2.44 W/kg



Assessment at the Body with Body worn HLN9701B (fixed belt loop) with NTN5243A carry strap

Table 22

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/7/2013 4:50:01 PM

Robot#: DASY5-PG-2 | Run#: Lee-AB-130307-13
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.3 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4016A
 Test Freq: 406.125 (MHz)
 Battery: PMNN4072A
 Carry Acc: HLN9701B / NTN5243A
 Audio Acc: PMMN4013A
 Start Power: 4.63 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 406 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x201x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 72.845 V/m; Power Drift = -0.16 dB

Fast SAR: SAR(1 g) = 4.78 mW/g; SAR(10 g) = 3.51 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.89 W/kg

Below 3 GHz-Rev.5/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 = 72.845 V/m; Power Drift = -0.56 dB

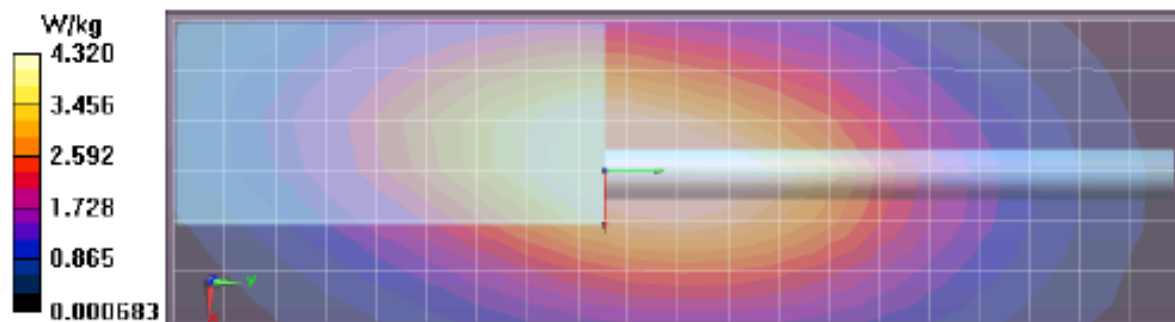
Peak SAR (extrapolated) = 6.003 mW/g

SAR(1 g) = 4.47 mW/g; SAR(10 g) = 3.29 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.56 W/kg

Below 3 GHz-Rev.5/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) = 4.32 W/kg



Assessment at the Body with Body worn RLN5385B (no belt loop) with NTN5243A carry strap

Table 23

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/11/2013 4:55:16 PM

Robot#: DASY3-PG-2 | Run#: CoC-AB-130311-14
 Model#: PMUE4147A
 Phantom#: ELIS 1147
 Tissue Temp: 20.7 (C)
 Serial#: 752TOB0112
 Antenna: NAE6522AR
 Test Freq: 438.000 (MHz)
 Battery: PMNN4072A
 Carry Acc: RLN5385B / NTN5243A
 Audio Acc: PMNN4013A
 Start Power: 4.56 (W)

Comments: Full Scan. RLN5385B w/o belt loop.

Duty Cycle: 1:1, Medium parameters used: $f = 438$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02), Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 54.645 V/m; Power Drift = -0.59 dB

Fast SAR: SAR(1 g) = 2.69 mW/g; SAR(10 g) = 2 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.83 W/kg

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

dy=7.5mm, dz=5mm

Reference Value = 54.645 V/m; Power Drift = -0.72 dB

Peak SAR (extrapolated) = 3.445 mW/g

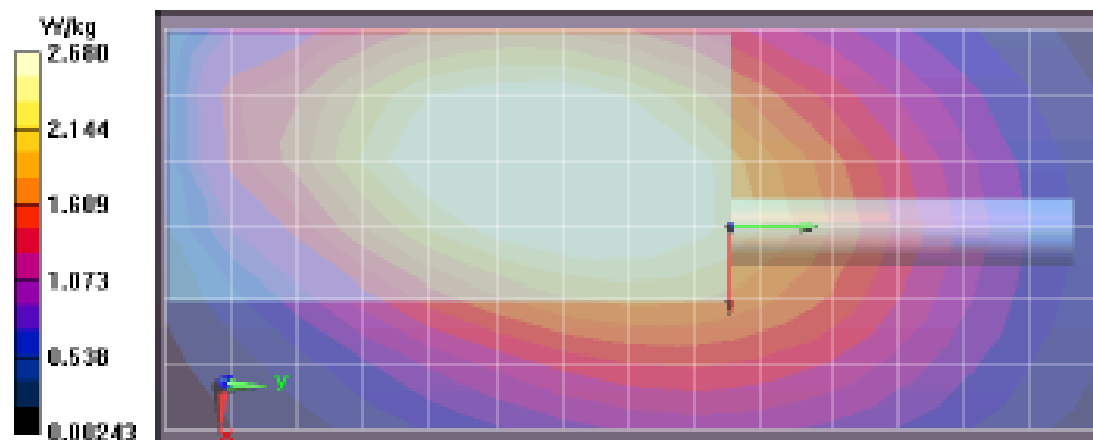
SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.95 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.72 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm,

dz=10mm

Maximum value of SAR (measured) = 2.68 W/kg



Assessment of other audio accessories at the body

Table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/13/2013 10:38:44 AM

Robot#: DASY5-PG-2 | Run#: PS-AB-130313-07
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 20.6 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4003A
 Test Freq: 446.000 (MHz)
 Battery: PMNN4253AR
 Carry Acc: HLN6602A
 Audio Acc: PMLN6539A
 Start Power: 4.70 (W)

Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 446$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 115.3 V/m; Power Drift = -0.49 dB

Fast SAR: SAR(1 g) = 11 mW/g; SAR(10 g) = 7.99 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.5 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 11.1 W/kg

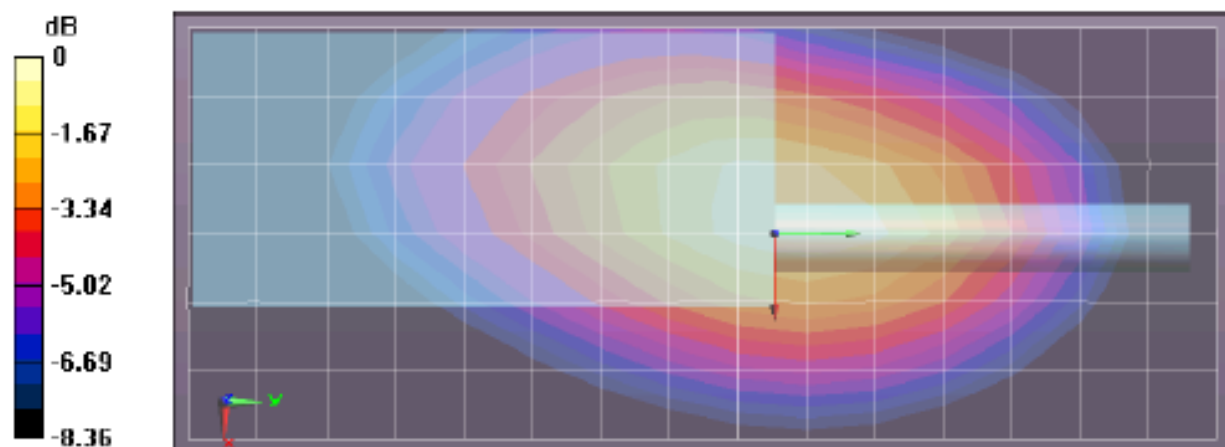
Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 123.1 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 17.160 mW/g

SAR(1 g) = 12.3 mW/g; SAR(10 g) = 8.84 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 12.9 W/kg



Assessments at the Face

Table 27

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/14/2013 5:50:44 PM

Robot#: DASY5-PG-2 | Run#: Lee-FACE-130314-19
 Model#: PMUE4147A
 Phantom#: ELI4 1037
 Tissue Temp: 21.1 (C)
 Serial#: 752TOB0112
 Antenna: PMAE4003A
 Test Freq: 456.700 (MHz)
 Battery: NNTN4497CR
 Carry Acc: NONE
 Audio Acc: NONE
 Start Power: 4.75 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 457$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 43.6$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(6.5, 6.5, 6.5); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 92.819 V/m; Power Drift = -0.47 dB

Fast SAR: SAR(1 g) = 6.71 mW/g; SAR(10 g) = 4.97 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 7.06 W/kg

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

Reference Value = 92.819 V/m; Power Drift = -0.63 dB

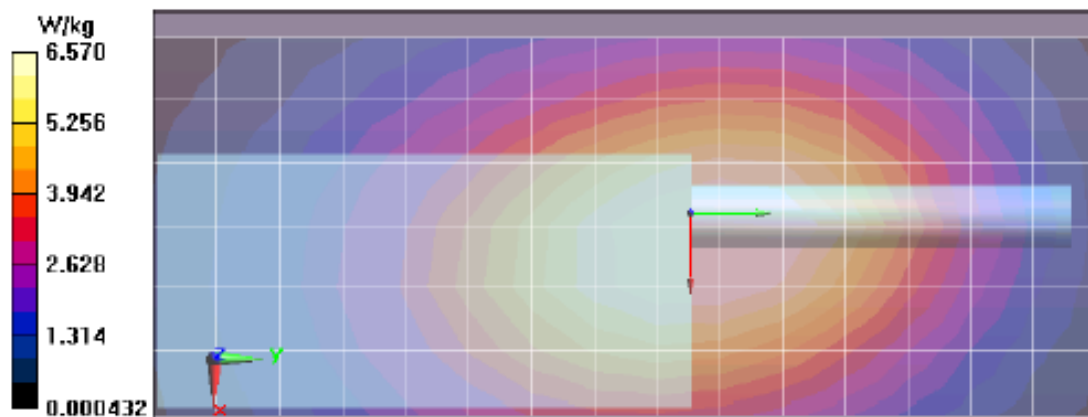
Peak SAR (extrapolated) = 8.436 mW/g

SAR(1 g) = 6.39 mW/g; SAR(10 g) = 4.74 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.72 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 6.57 W/kg



APPENDIX H
DUT Scans Outside Part 90
Data from 403-406 MHz enclosed for this Appendix is not applicable for FCC Part 90

Assessments outside FCC Part 90 at the Body

Table 25

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/18/2013 7:49:08 AM

Robot#: DASY5-PG-2 | Run#: CcC-AB-130318-03
 Model#: PMUE4147A
 Phantom#: ELI5 1147
 Tissue Temp: 21.3 (C)
 Serial#: 752TOB0112
 Antenna: NAE6483AR
 Test Freq: 403.000 (MHz)
 Battery: PMNN4253AR
 Carry Acc: HLN6602A
 Audio Acc: PMLN6539A
 Start Power: 4.53 (W)

Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 403$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
 Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 81.196 V/m; Power Drift = -1.47 dB

Fast SAR: SAR(1 g) = 5.14 mW/g; SAR(10 g) = 3.78 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.25 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.18 W/kg

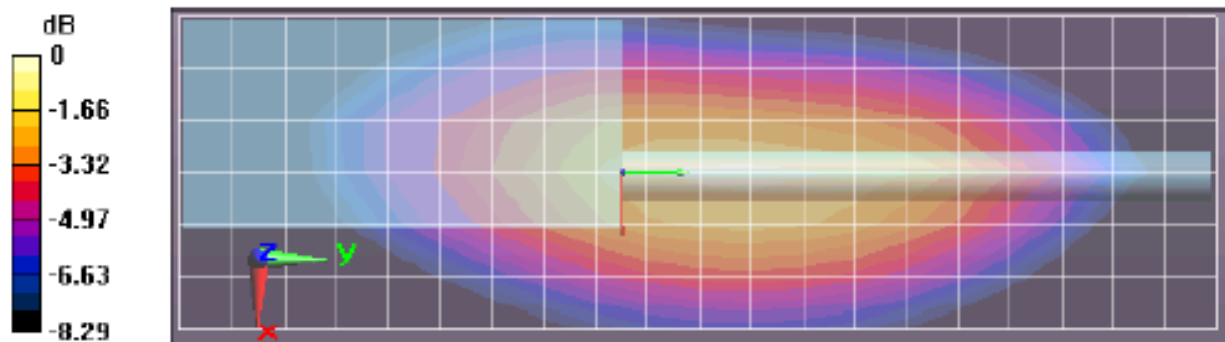
Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 83.933 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 8.486 mW/g

SAR(1 g) = 6.33 mW/g; SAR(10 g) = 4.61 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.43 W/kg



Assessments outside FCC Part 90 at the Face

Table 28

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/15/2013 3:21:04 PM

Robot#: DASY5-PG-2 | Run#: Lee-FACE-130315-09

Model#: PMUE4147A

Phantom#: ELI4 1037

Tissue Temp: 20.9 (C)

Serial#: 752TOB0112

Antenna: PMAE4016A

Test Freq: 403.000 (MHz)

Battery: NNTN4497CR

Carry Acc: NONE

Audio Acc: NONE

Start Power: 4.63 (W)

Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: $f = 403$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3274, , ConvF(6.5, 6.5, 6.5); Calibrated: 11/13/2012

Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 77.705 V/m; Power Drift = -0.40 dB

Fast SAR: SAR(1 g) = 5.02 mW/g; SAR(10 g) = 3.73 mW/g (SAR corrected for target medium)

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

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

Reference Value = 77.705 V/m; Power Drift = -0.80 dB

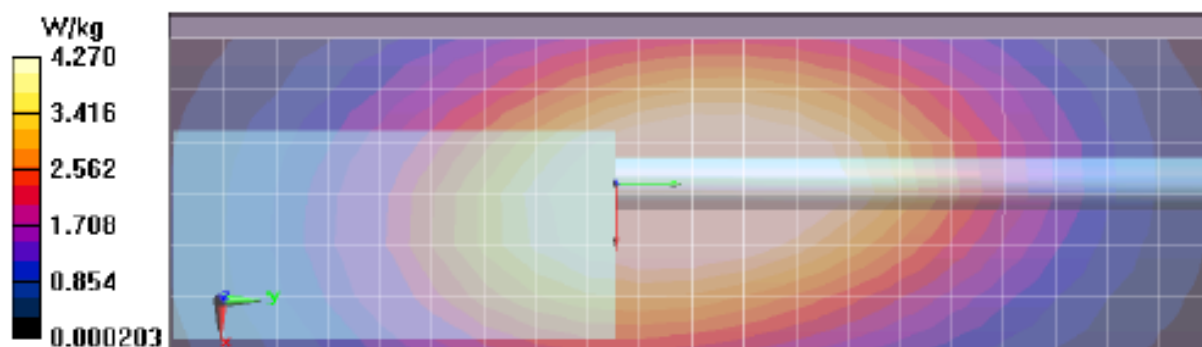
Peak SAR (extrapolated) = 5.670 mW/g

SAR(1 g) = 4.55 mW/g; SAR(10 g) = 3.43 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.56 W/kg

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.27 W/kg



APPENDIX I

DUT Supplementary Data (Power slump)

Power Slump Model # : PMUE4147A

Serial # : 752TOB0112

Battery: PMNN4253AR

Transmit Mode: CW

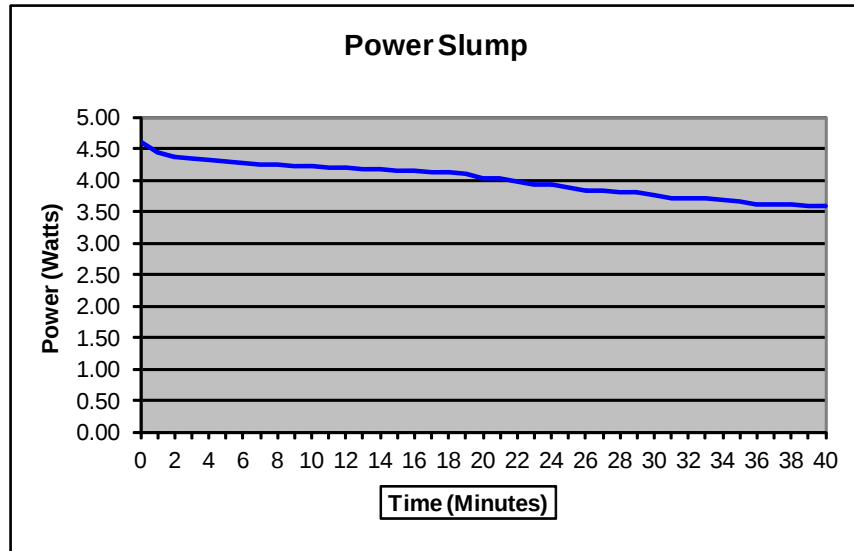
Frequency: 446 MHz

Audio Accessory: PMLN6539A

Date: 3/19/2013

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

0.0	4.61
1.0	4.44
2.0	4.37
3.0	4.34
4.0	4.31
5.0	4.29
6.0	4.26
7.0	4.25
8.0	4.24
9.0	4.22
10.0	4.21
11.0	4.20
12.0	4.19
13.0	4.18
14.0	4.16
15.0	4.16
16.0	4.14
17.0	4.12
18.0	4.11
19.0	4.11
20.0	4.02
21.0	4.02
22.0	3.98
23.0	3.93
24.0	3.92
25.0	3.88
26.0	3.84
27.0	3.82
28.0	3.81
29.0	3.80
30.0	3.75
31.0	3.72
32.0	3.70
33.0	3.70
34.0	3.69
35.0	3.67
36.0	3.62
37.0	3.61
38.0	3.60
39.0	3.59
40.0	3.59



APPENDIX J

DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX K
DUT, Body worn and Audio Accessory Photos

Photos available in Exhibit 7B