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: 05/07/2013
Report Revision: O
Report ID: SR11252_PMUE4186A Rev O 130507

Responsible Engineer:	Veeramani Veerapan (Sr.EME Engineer)
Report Author:	Veeramani Veerapan (Sr.EME Engineer)
Date/s Tested:	03/18/13-04/01/13
Manufacturer/Location:	Motorola, Penang
Sector/Group/Div.:	PCR
Date submitted for test:	02/20/13
DUT Description:	403-527 MHz 4W NKP GPS BT /GPS BT GOB
Test TX mode(s):	CW (PTT) for UHF; CW (77 % duty cycle for Bluetooth)
Max. Power output:	4.8 W for UHF; 10 mW for Bluetooth
Nominal Power:	4.0 W for UHF; 2.5 mW for Bluetooth
Tx Frequency Bands:	403-527 MHz, 2.402-2.480 GHz (Bluetooth)
Signaling type:	FM (UHF); FHSS (Bluetooth)
Model(s) Tested:	PMUE4186A
Model(s) Certified:	PMUE4186A
Serial Number(s):	105TPB0013
Classification:	Occupational/Controlled
FCC ID:	AZ489FT4914; Rule Part 90 (406.1-512 MHz)); Rule Part 15 (2402-2480 MHz). Results outside FCC bands are not applicable for FCC compliance demonstration.
IC:	109U-89FT4914; (406.1-430 and 450-470 MHz); Rule Part 15 (2402-2480 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. Results outside FCC bands are not applicable for FCC compliance demonstration. 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.

Zakharia Deanna-EDC015

Digitally signed by Zakharia Deanna-EDC015
DN: cn=Zakharia Deanna-EDC015
Date: 2013.05.09 17:47:59 -04'00'

Deanna Zakharia
EMS EME Lab Senior Resource Manager, Laboratory Director

Approval Date: 5/9/2013

Certification Date: 5/9/2013

Certification No.: L1130407P

APPENDIX D
Test System Check Scans

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 7:48:32 AM

Robot#: DASY4-PG-1 | Run#:	CcC-SYSP-450B-130318-01
Dipole Model#	D450V3
Phantom#:	ELI4 1050
Tissue Temp:	21.7 (C)
Serial#:	1054
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.043 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); 0.733 mW/g (10g)

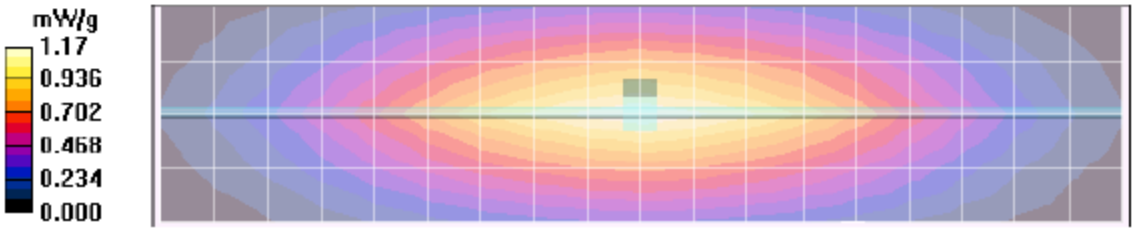
Comments:

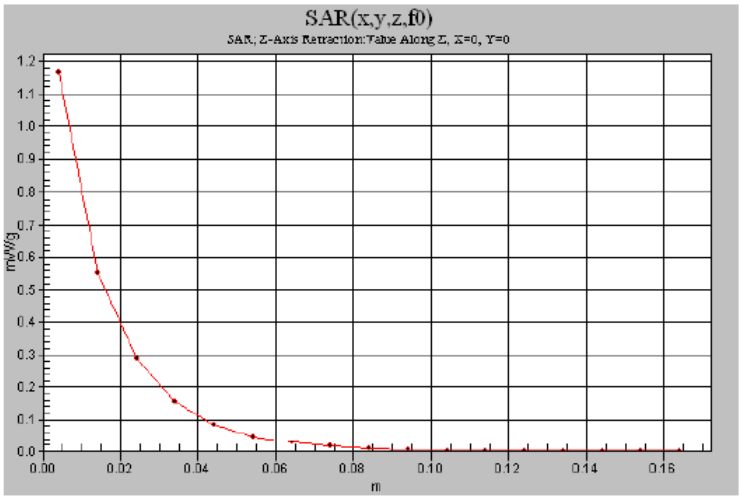
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.93 mho/m; ε_r = 55.8; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.79, 6.79, 6.79)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

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 = 0.00245 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 1.09 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





Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 3:07:09 PM

Robot#: DASY4-PG-1 | Run#:	Lee-SYSP-450H-130318-07
Dipole Model#	D450V3
Phantom#:	ELI4 1037
Tissue Temp:	21.0 (C)
Serial#:	1054
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.033 dB
Adjusted SAR (1W):	4.60 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: 1.151 mW/g (1g); 0.770 mW/g (10g)

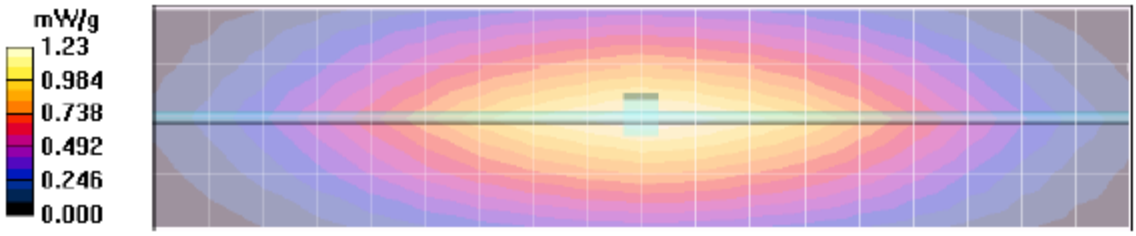
Comments:

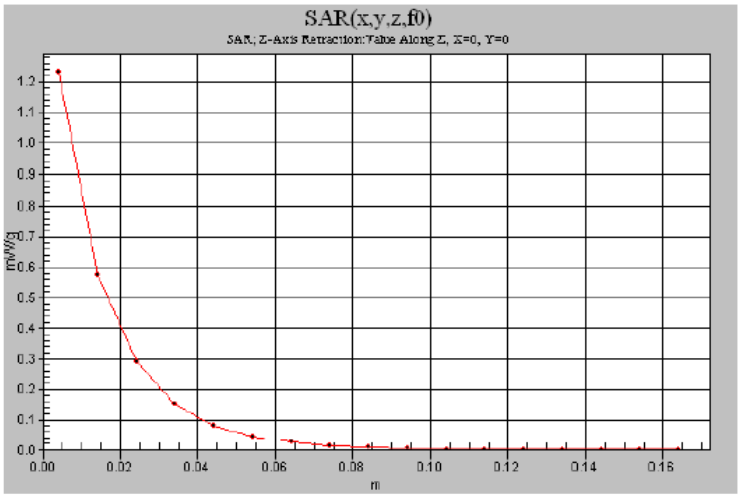
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 mho/m; ε_r = 43.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.31, 6.31, 6.31)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 38.1 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.769 mW/g
Maximum value of SAR (measured) = 1.24 mW/g

System Performance Check/Dipole Area Scan 2 (5x19x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.23 mW/g

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





Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/19/2013 3:21:00 PM

Robot#: DASY4-PG-1 | Run#:	PS-SYSP-450H-130319-10
Dipole Model#	D450V3
Phantom#:	ELI4 1037
Tissue Temp:	21.2 (C)
Serial#:	1054
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.039 dB
Adjusted SAR (1W):	4.61 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: 1.152 mW/g (1g); 0.768 mW/g (10g)

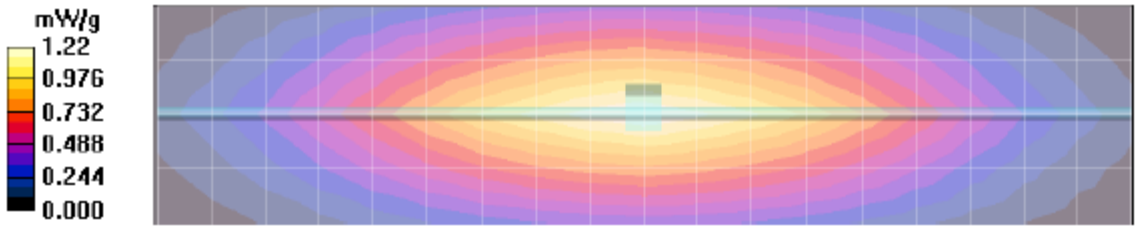
Comments:

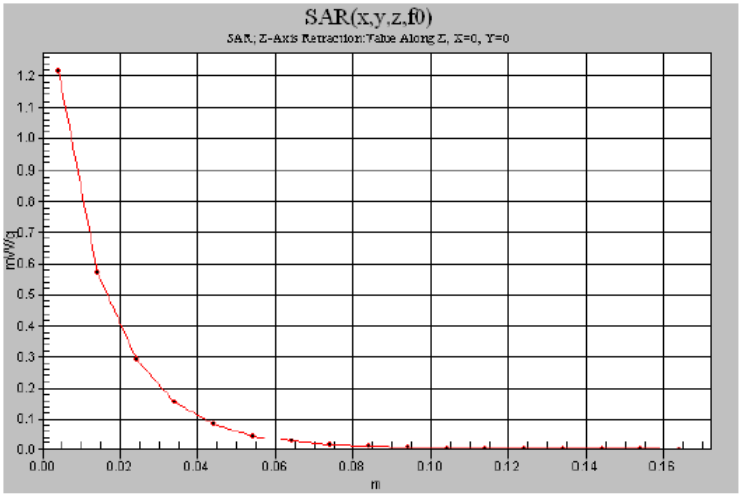
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 mho/m; ε_r = 43.7; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.31, 6.31, 6.31)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 38.0 V/m; Power Drift = -0.0408 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.767 mW/g
Maximum value of SAR (measured) = 1.23 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) = 1.22 mW/g





Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/29/2013 11:33:31 AM

Robot#: DASY5-PG-2 | Run#:	PS-SYSP-450B-130329-05
Dipole Model#	D450V3
Phantom#:	ELI4 1050
Tissue Temp:	21.3 (C)
Serial#:	1054
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.046 dB
Adjusted SAR (1W):	4.36 mW/g (1g)

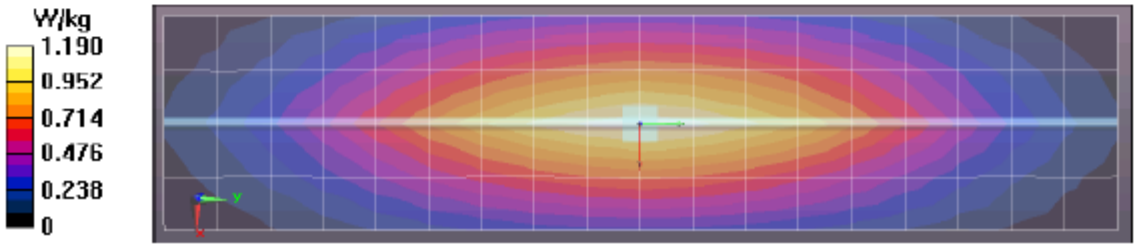
Comments:

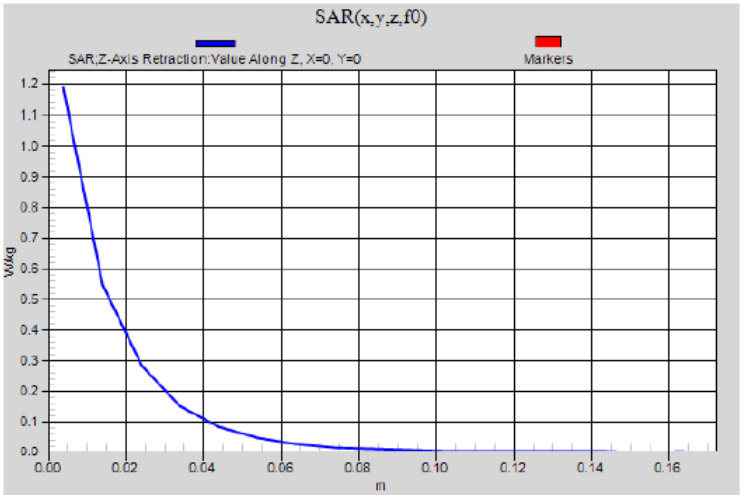
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.95 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.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 = 35.278 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.712 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) = 1.19 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: 3/29/2013 2:00:37 PM

Robot#: DASY5-PG-2 | Run#: Lee-SYSP-2450B-130329-07
Dipole Model# D2450V2
Phantom#: ELI5 1147
Tissue Temp: 21.0 (C)
Serial#: 782
Test Freq: 2450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.053 dB
Adjusted SAR (1W): 53.60 mW/g (1g)

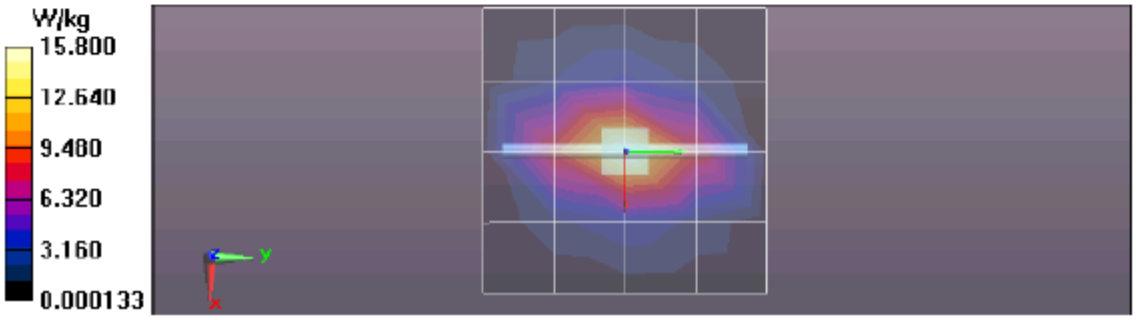
Comments:

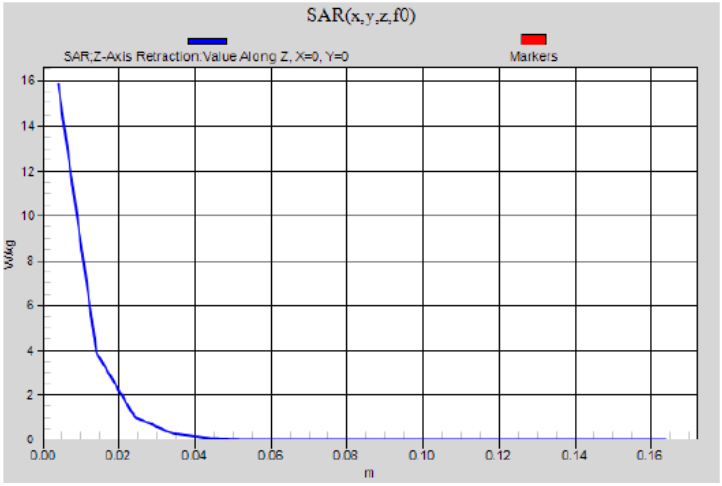
Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; σ = 2.04 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3274, , ConvF(4.27, 4.27, 4.27); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x5x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 15.8 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 = 88.850 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 30.269 mW/g
SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.17 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 15.9 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: 4/1/2013 3:46:44 PM

Robot#: DASY5-PG-2 | Run#:	Lee-SYSP-450B-130401-04
Dipole Model#	D450V3
Phantom#:	ELI4 1050
Tissue Temp:	21.3 (C)
Serial#:	1054
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.035 dB
Adjusted SAR (1W):	4.36 mW/g (1g)

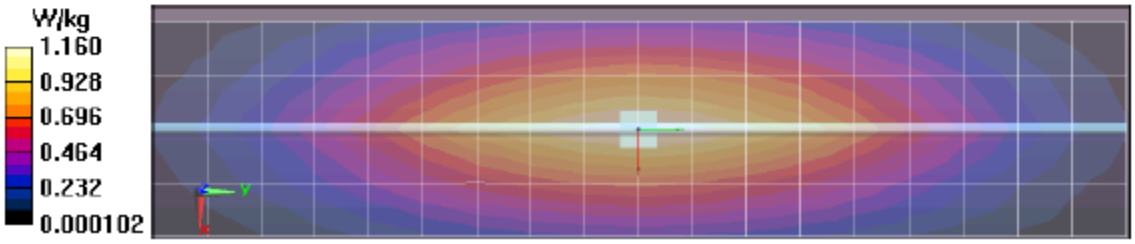
Comments:

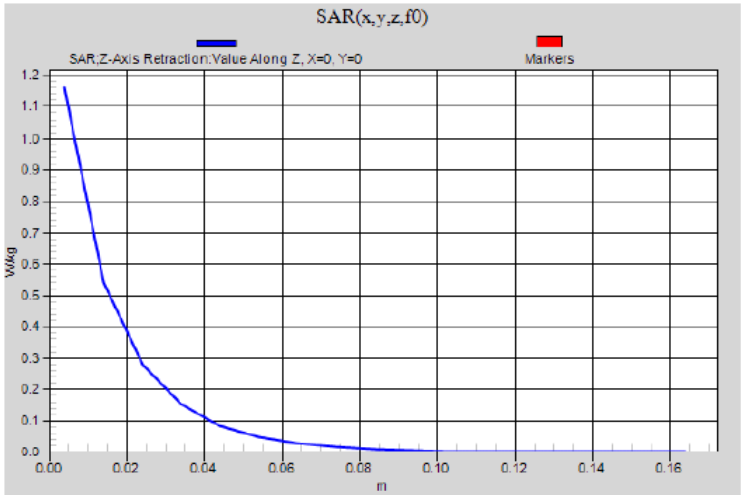
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.93 mho/m; ε_r = 55.2; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3274, , ConvF(7.02, 7.02, 7.02); Calibrated: 11/13/2012
Electronics: DAE4 Sn684, Calibrated: 12/17/2012

Below 3 GHz-Rev.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 = 35.325 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.665 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.726 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





APPENDIX E
Worst Case for Band 406.1-512 MHz
DUT Scans (Highest SAR configurations)

Body - Highest SAR Configuration Result
Table 15
Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/29/2013 12:12:13 PM

Robot#: DASY5-PG-2 | Run#: PS-AB-130329-06
Model#: PMUE4186A
Phantom#: ELI4 1050
Tissue Temp: 21.2 (C)
Serial#: 105TPB0013
Antenna: PMAE4071A
Test Freq: 496.000 (MHz)
Battery: PMNN4440A
Carry Acc: PMLN6545A
Audio Acc: NONE
Start Power: 4.79 (W)

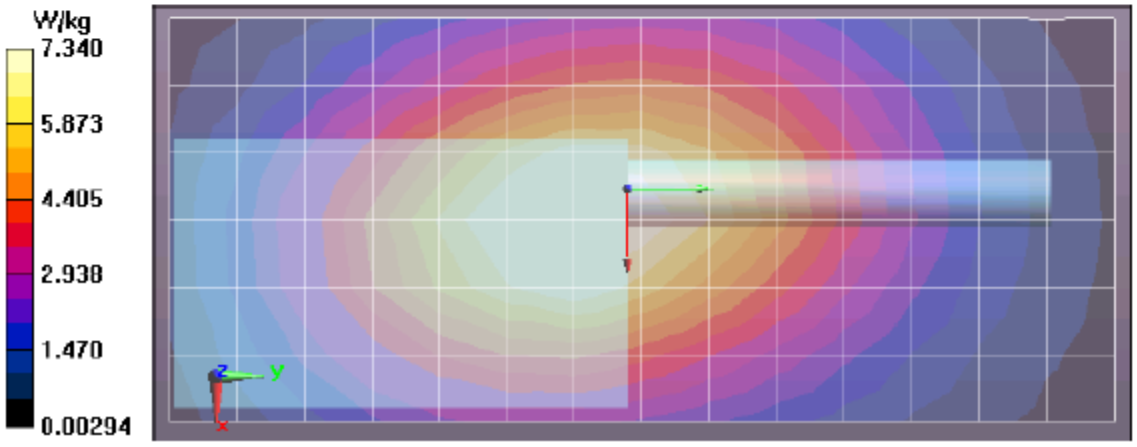
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 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 mm, dy=1.500 mm
Reference Value = 84.993 V/m; Power Drift = -0.42 dB
Fast SAR: SAR(1 g) = 7.43 mW/g; SAR(10 g) = 5.43 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 7.85 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 = 84.993 V/m; Power Drift = -0.57 dB
Peak SAR (extrapolated) = 9.749 mW/g
SAR(1 g) = 7.1 mW/g; SAR(10 g) = 5.15 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 7.48 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) = 7.34 W/kg



Face - Highest SAR Configuration Result
Table 18
Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 4:43:30 PM

Robot#: DASY4-PG-1 | Run#:	Lee-FACE-130318-10
Model#:	PMUE4186A
Phantom#:	ELI4 1037
Tissue Temp:	21.0 (C)
Serial#:	105TPB0013
Antenna:	PMAE4071A
Test Freq:	496.000 (MHz)
Battery:	PMNN4440A
Carry Acc:	NONE
Audio Acc:	NONE
Start Power:	4.78 (W)

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

Reported SAR: 6.620 mW/g (1g); 4.870 mW/g (10g)

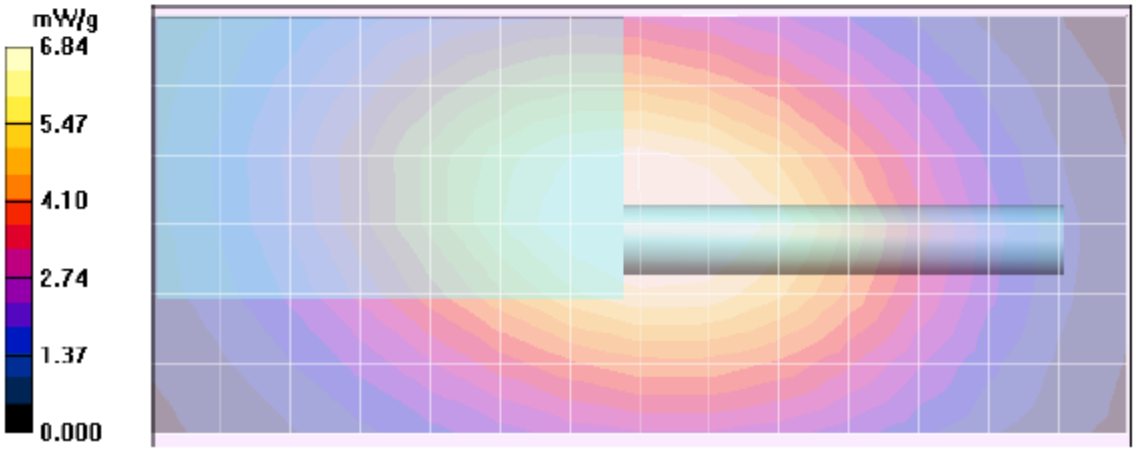
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.91 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.31, 6.31, 6.31)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Face Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 92.0 V/m; Power Drift = -0.397 dB
Motorola Fast SAR: SAR(1 g) = 6.92 mW/g; SAR(10 g) = 5.11 mW/g
Maximum value of SAR (interpolated) = 7.27 mW/g

Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 92.0 V/m; Power Drift = -0.536 dB
Peak SAR (extrapolated) = 8.75 W/kg
SAR(1 g) = 6.62 mW/g; SAR(10 g) = 4.87 mW/g
Maximum value of SAR (measured) = 6.98 mW/g

Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 6.84 mW/g



APPENDIX F
DUT Scans (Shorten scan and Variability scan)

Shortened scan and Variability scan Result
Table 21

Motorola Solutions, Inc. EME Laboratory
Date/Time: 4/1/2013 5:24:10 PM

Robot#: DASY5-PG-2 | Run#: Lee-AB-130401-07
Model#: PMUE4186A
Phantom#: ELI4 1050
Tissue Temp: 21.0 (C)
Serial#: 105TPB0013
Antenna: PMAE4071A
Test Freq: 496.000 (MHz)
Battery: PMNN4440A
Carry Acc: PMLN6545A
Audio Acc: NONE
Start Power: 4.79 (W)

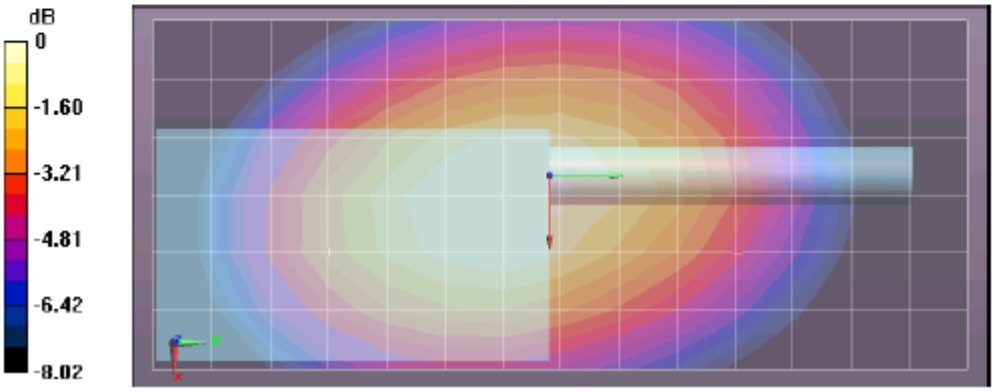
Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.96 mho/m; ε_r = 54.5; ρ = 1000 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 mm, dy=1.500 mm
Reference Value = 85.047 V/m; Power Drift = -0.44 dB
Fast SAR: SAR(1 g) = 7.3 mW/g; SAR(10 g) = 5.35 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 7.71 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) = 7.45 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 = 92.919 V/m; Power Drift = -0.38 dB
Peak SAR (extrapolated) = 10.103 mW/g
SAR(1 g) = 7.43 mW/g; SAR(10 g) = 5.43 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 7.82 W/kg



0 dB = 7.82 W/kg = 17.86 dB W/kg

Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.
Representative full scan run time was 18 minutes.
"Shortened" scan max calculated SAR using SAR drift: 1-g Avg. = 4.06 mW/g; 10-g Avg. = 2.97 mW/g.
Zoom scan max calculated SAR using SAR drift (see part 1 table 15): 1-g Avg. = 4.06 mW/g; 10-g Avg. = 2.94 mW/g.

APPENDIX G
DUT Scans - FCC Part 90 (406.1-512 MHz) and Rule Part 15 (2402-2480 MHz)

***All scans are applicable for overall band and Industry Canada (406.1-430 MHz) & (450-470 MHz)**

Assessments at the Body with Body worn PMLN6545A
Table 14

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 1:59:59 PM

Robot#: DASY4-PG-1 | Run#:	Lee-AB-130318-06
Model#:	PMUE4186A
Phantom#:	ELI4 1050
Tissue Temp:	20.6 (C)
Serial#:	105TPB0013
Antenna:	PMAE4071A
Test Freq:	496.000 (MHz)
Battery:	PMNN4440A
Carry Acc:	PMLN6545A
Audio Acc:	PMLN5727A
Start Power:	4.76 (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: 5.910 mW/g (1g); 4.280 mW/g (10g)

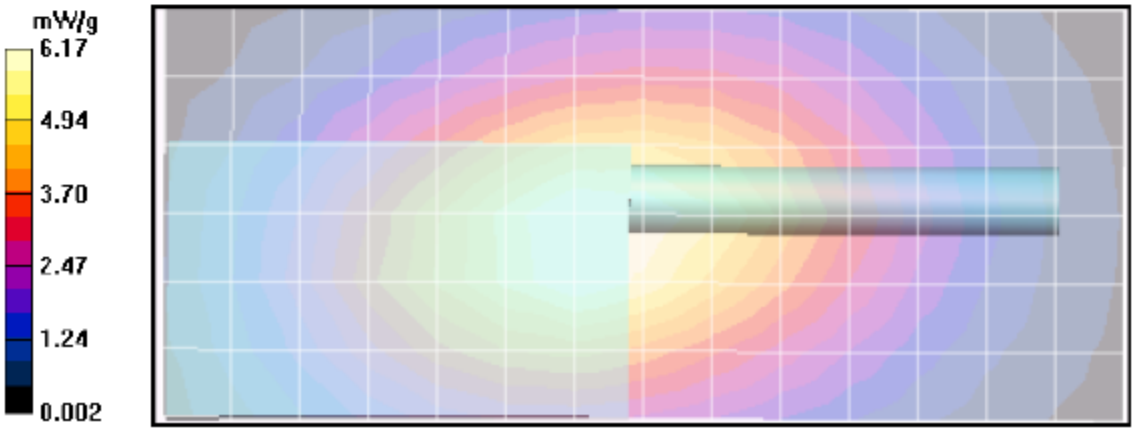
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.97 mho/m; ε_r = 55.1; ρ = 1000 kg/m^3
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 = 77.7 V/m; Power Drift = -0.410 dB
Motorola Fast SAR: SAR(1 g) = 6.18 mW/g; SAR(10 g) = 4.52 mW/g
Maximum value of SAR (interpolated) = 6.52 mW/g

Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 77.7 V/m; Power Drift = -0.541 dB
Peak SAR (extrapolated) = 8.13 W/kg
SAR(1 g) = 5.91 mW/g; SAR(10 g) = 4.28 mW/g
Maximum value of SAR (measured) = 6.26 mW/g

Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 6.17 mW/g



Assessments of wireless BT configuration at the Body
Table 15
Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/29/2013 12:12:13 PM

Robot#: DASY5-PG-2 | Run#: PS-AB-130329-06
Model#: PMUE4186A
Phantom#: ELI4 1050
Tissue Temp: 21.2 (C)
Serial#: 105TPB0013
Antenna: PMAE4071A
Test Freq: 496.000 (MHz)
Battery: PMNN4440A
Carry Acc: PMLN6545A
Audio Acc: NONE
Start Power: 4.79 (W)

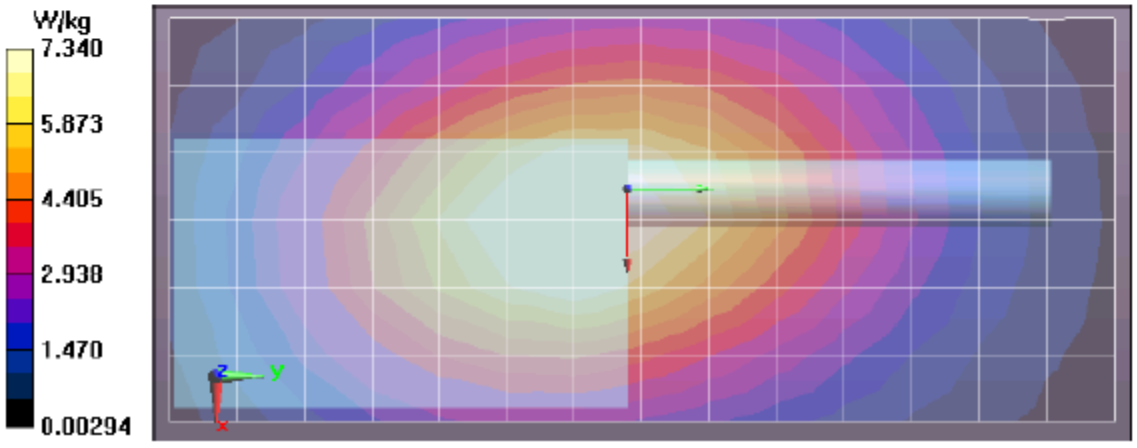
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 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 mm, dy=1.500 mm
Reference Value = 84.993 V/m; Power Drift = -0.42 dB
Fast SAR: SAR(1 g) = 7.43 mW/g; SAR(10 g) = 5.43 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 7.85 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 = 84.993 V/m; Power Drift = -0.57 dB
Peak SAR (extrapolated) = 9.749 mW/g
SAR(1 g) = 7.1 mW/g; SAR(10 g) = 5.15 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 7.48 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) = 7.34 W/kg



Assessments at the Face
Table 18
Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/18/2013 4:43:30 PM

Robot#: DASY4-PG-1 | Run#:	Lee-FACE-130318-10
Model#:	PMUE4186A
Phantom#:	ELI4 1037
Tissue Temp:	21.0 (C)
Serial#:	105TPB0013
Antenna:	PMAE4071A
Test Freq:	496.000 (MHz)
Battery:	PMNN4440A
Carry Acc:	NONE
Audio Acc:	NONE
Start Power:	4.78 (W)

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

Reported SAR: 6.620 mW/g (1g); 4.870 mW/g (10g)

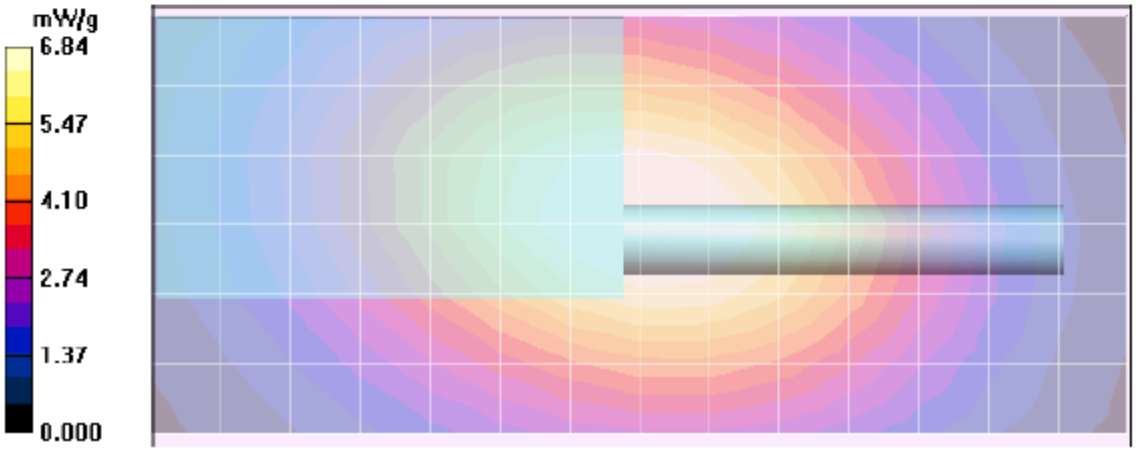
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 496 MHz; σ = 0.91 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.31, 6.31, 6.31)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Face Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 92.0 V/m; Power Drift = -0.397 dB
Motorola Fast SAR: SAR(1 g) = 6.92 mW/g; SAR(10 g) = 5.11 mW/g
Maximum value of SAR (interpolated) = 7.27 mW/g

Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 92.0 V/m; Power Drift = -0.536 dB
Peak SAR (extrapolated) = 8.75 W/kg
SAR(1 g) = 6.62 mW/g; SAR(10 g) = 4.87 mW/g
Maximum value of SAR (measured) = 6.98 mW/g

Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 6.84 mW/g



Assessment for BT band
Table 20
Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/29/2013 3:19:09 PM

Robot#: DASY5-PG-2 | Run#: Lee-AB-130329-09
Model#: PMUE4186A
Phantom#: ELI5 1147
Tissue Temp: 21.1 (C)
Serial#: 105TPB0013
Antenna: BT and PMAE4071A
Test Freq: 2441.000 (MHz)
Battery: PMNN4440A
Carry Acc: PMLN6545A
Audio Acc: NONE
Start Power: 0.01 (W)

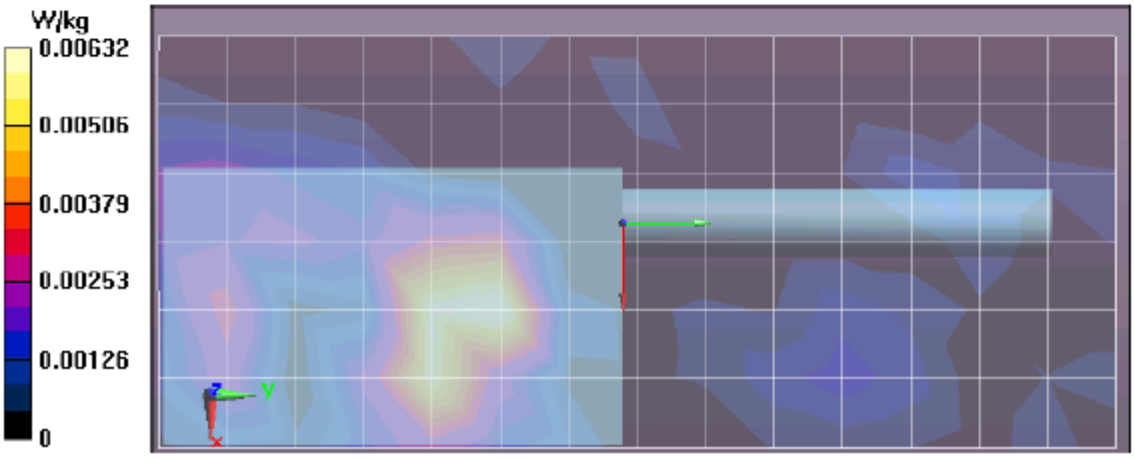
Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used: f = 2441 MHz; σ = 2.02 mho/m; ε_r = 47.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3274, , ConvF(4.27, 4.27, 4.27); 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 = 1.071 V/m; Power Drift = -0.71 dB
Fast SAR: SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00426 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.0171 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 = 1.761 V/m; Power Drift = -0.24 dB
Peak SAR (extrapolated) = 0.013 mW/g
SAR(1 g) = 0.0064 mW/g; SAR(10 g) = 0.00305 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.00768 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) = 0.00632 W/kg



APPENDIX H
DUT Scans - Outside FCC Part 90

Assessments outside FCC Part 90 at the Body
Table 16

Motorola Solutions, Inc. EME Laboratory
Date/Time: 4/1/2013 4:50:12 PM

Robot#: DASY5-PG-2 | Run#: Lee-AB-130401-06
Model#: PMUE4186A
Phantom#: ELI4 1050
Tissue Temp: 21.1 (C)
Serial#: 105TPB0013
Antenna: PMAE4071A
Test Freq: 527.000 (MHz)
Battery: PMNN4440A
Carry Acc: PMLN6545A
Audio Acc: NONE
Start Power: 4.79 (W)

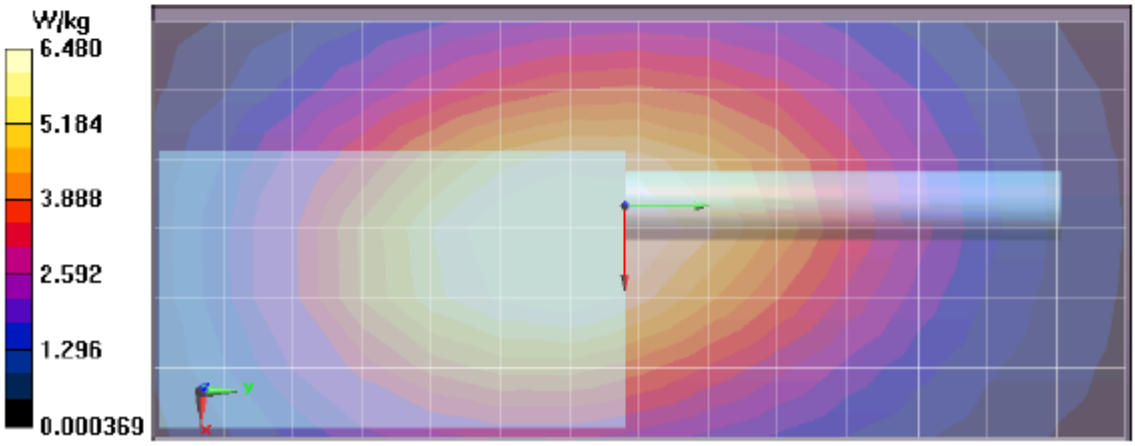
Comments: Full Scan.

Duty Cycle: 1:1, Medium parameters used: f = 527 MHz; σ = 0.99 mho/m; ε_r = 54.1; ρ = 1000 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 mm, dy=1.500 mm
Reference Value = 82.371 V/m; Power Drift = -0.53 dB
Fast SAR: SAR(1 g) = 6.76 mW/g; SAR(10 g) = 4.94 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 7.13 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 = 82.371 V/m; Power Drift = -0.77 dB
Peak SAR (extrapolated) = 8.714 mW/g
SAR(1 g) = 6.35 mW/g; SAR(10 g) = 4.61 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 6.73 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) = 6.48 W/kg



Assessments outside FCC Part 90 at the Face
Table 19

Motorola Solutions, Inc. EME Laboratory
Date/Time: 3/19/2013 6:01:04 PM

Robot#: DASY4-PG-1 | Run#:	PS-FACE-130319-13
Model#:	PMUE4186A
Phantom#:	ELI4 1037
Tissue Temp:	21.0 (C)
Serial#:	105TPB0013
Antenna:	PMAE4071A
Test Freq:	527.000 (MHz)
Battery:	PMNN4440A
Carry Acc:	NONE
Audio Acc:	NONE
Start Power:	4.79 (W)

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

Reported SAR: 6.420 mW/g (1g); 4.720 mW/g (10g)

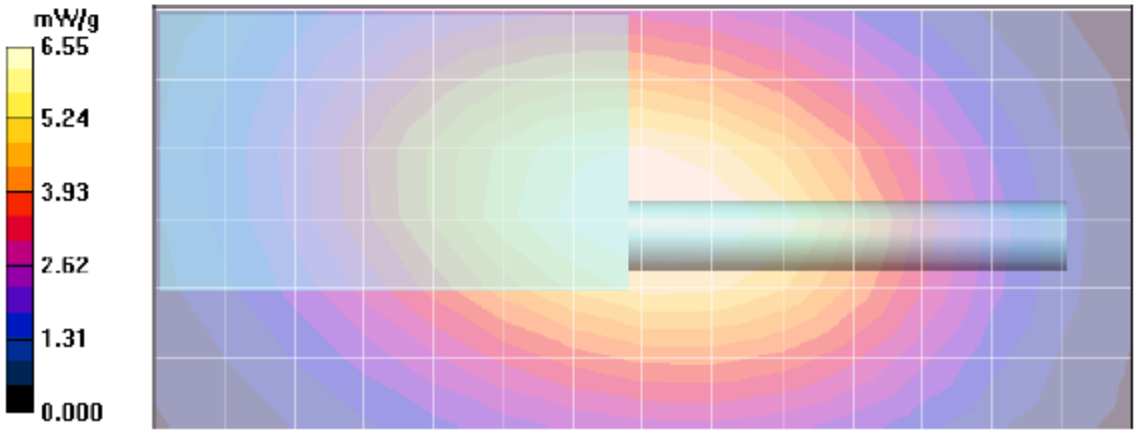
Comments: Shorten Scan.

Duty Cycle: 1:1, Medium parameters used: f = 527 MHz; σ = 0.91 mho/m; ε_r = 42.2; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3096, Calibrated: 11/13/2012, ConvF(6.31, 6.31, 6.31)
Electronics: DAE4 Sn1294, Calibrated: 11/13/2012

Face Scan/1-Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 89.8 V/m; Power Drift = -0.459 dB
Motorola Fast SAR: SAR(1 g) = 6.42 mW/g; SAR(10 g) = 4.74 mW/g
Maximum value of SAR (interpolated) = 6.74 mW/g

Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 89.4 V/m; Power Drift = -0.349 dB
Peak SAR (extrapolated) = 8.49 W/kg
SAR(1 g) = 6.42 mW/g; SAR(10 g) = 4.72 mW/g
Maximum value of SAR (measured) = 6.76 mW/g

Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 6.55 mW/g

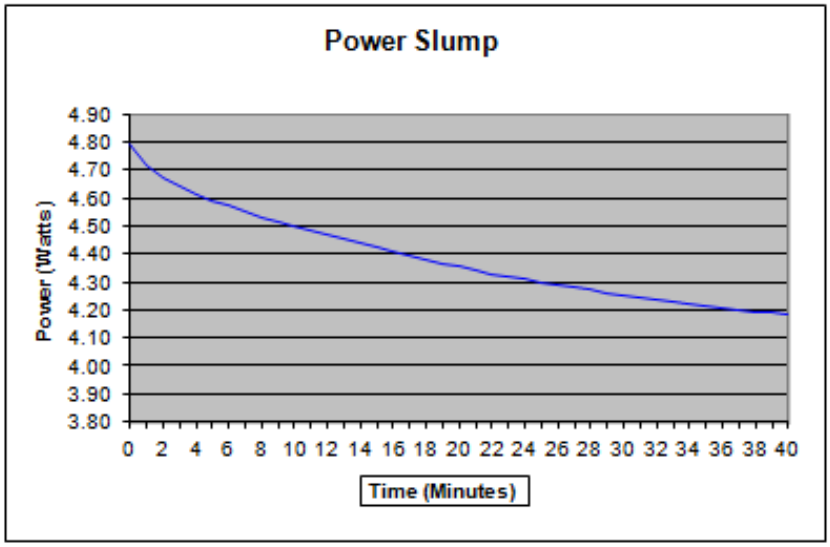


APPENDIX I
DUT Supplementary Data (Power slump)

Power Slump Model # : PMUE4186A
Serial # 105TPB0013

Battery: PMNN4440A **Transmit Mod** CW
Frequenc 496 MHz **Audio Access** NONE
Date: 4/5/2013

(Minutes)	Power (Watts)
0.0	4.79
1.0	4.71
2.0	4.67
3.0	4.64
4.0	4.61
5.0	4.59
6.0	4.57
7.0	4.55
8.0	4.53
9.0	4.52
10.0	4.50
11.0	4.48
12.0	4.47
13.0	4.45
14.0	4.44
15.0	4.42
16.0	4.41
17.0	4.39
18.0	4.38
19.0	4.36
20.0	4.35
21.0	4.34
22.0	4.33
23.0	4.32
24.0	4.31
25.0	4.30
26.0	4.29
27.0	4.28
28.0	4.27
29.0	4.26
30.0	4.25
31.0	4.25
32.0	4.24
33.0	4.23
34.0	4.22
35.0	4.22
36.0	4.21
37.0	4.20
38.0	4.19
39.0	4.19
40.0	4.19



APPENDIX J
DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX K
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B