MOTOROLA SOLUTIONS

ACCREDITED
TESTING CERT # 2518.01

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory
8000 West Sunrise Blvd
Fort Lauderdale, FL. 33322

Date of Report: 5/15/2013
Report Revision: O
Report ID: SR11193 APX3000 U2 Rev O 130515

Responsible Engineer:	Michael Sailsman(Senior Staff EME Engineer)
Report Author:	Michael Sailsman (Senior Staff EME Engineer)
Date/s Tested:	2/15/13-2/26/13; 4/23/13
Manufacturer/Location:	Motorola, Penang
Sector/Group/Div.:	AESS – Astro Engineering Subscriber Solutions
Date submitted for test:	2/5/13
DUT Description:	450-520MHz, 5.0W rated power, 6.25kHz/12.5kHz/25kHz, Capable of digital and analog FM transmission. Also capable of TDMA and Bluetooth transmissions
Test TX mode(s):	CW (PTT); CW (Bluetooth)
Max. Power output:	5.6W (450-520 MHz); 10 mW Bluetooth
Nominal Power:	5.0W (450-520 MHz); 10 mW Bluetooth
Tx Frequency Bands:	450-520 MHz; 2.402-2.480 GHz (Bluetooth)
Signaling type:	FM, TDMA, FHSS (Bluetooth)
Model(s) Tested:	H59SDD9PW4AN
Model(s) Certified:	H59SDD9PW4AN
Serial Number(s):	536TPB0026, 536TPB0097
Classification:	Occupational/Controlled
FCC ID:	AZ489FT4912; Rule Part 90 (450-512 MHz); Rule Part 15 (2402 – 2480 MHz) Results outside FCC bands are not applicable for FCC compliance demonstration.
Responsible Engineer:	Michael Sailsman(Senior Staff EME Engineer)

* 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: 2013.05.20 16:44:16 -04'00'

Deanna Zakharia
EMS EME Lab Senior Resource Manager, Laboratory Director
Approval Date: 5/20/2013

Certification Date: 5/20/2013

Certification No.: L1130513P

APPENDIX D
System Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/19/2013 10:18:30 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 450B-130219-01
Dipole Model# D450V3
Phantom#: OVAL1011
Tissue Temp: 20.3 (C)
Serial#: 1075
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.024 dB
Adjusted SAR (1W): 4.52 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 56.5; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

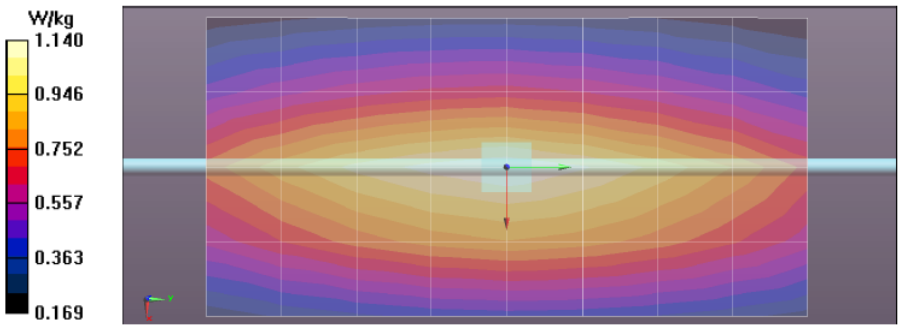
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.14 W/kg

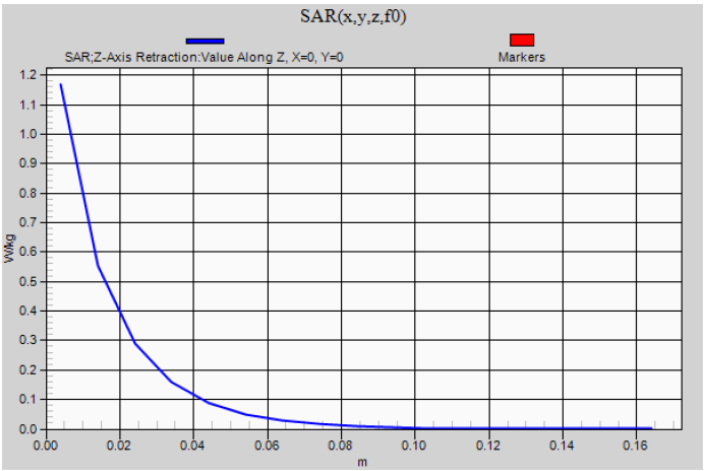
Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 35.917 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.663 mW/g
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.754 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: 2/20/2013 5:25:11 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 450B-130220-01
Dipole Model# D450V3
Phantom#: OVAL1011
Tissue Temp: 20.1 (C)
Serial#: 1075
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.027 dB
Adjusted SAR (1W): 4.48 mW/g (1g)

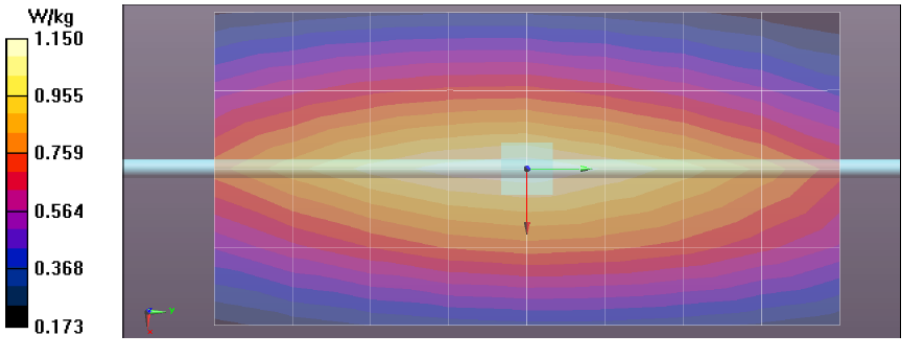
Comments:

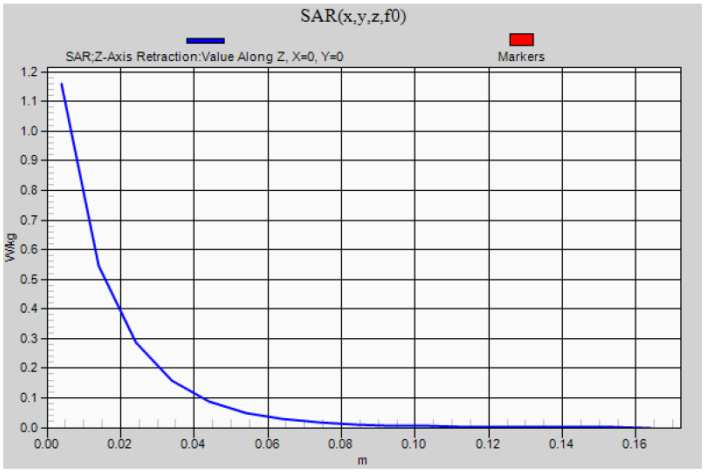
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 56.9; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):
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 = 35.754 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.645 mW/g
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.745 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) = 1.16 W/kg





Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/21/2013 5:43:29 AM

Robot#: DASY5-FL-3 | Run#:	ErC-SYSP 450B-130221-01
Dipole Model#	D450V3
Phantom#:	OVAL1011
Tissue Temp:	20.4 (C)
Serial#:	1075
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.029 dB
Adjusted SAR (1W):	4.56 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.91 mho/m; ε_r = 57.2; ρ = 1000 kg/m^3

Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012

Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

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 = 36.066 V/m; Power Drift = 0.00 dB

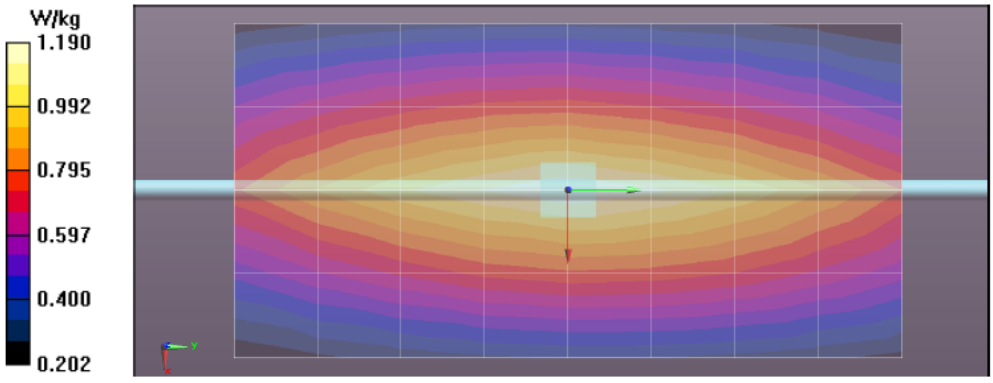
Peak SAR (extrapolated) = 1.696 mW/g

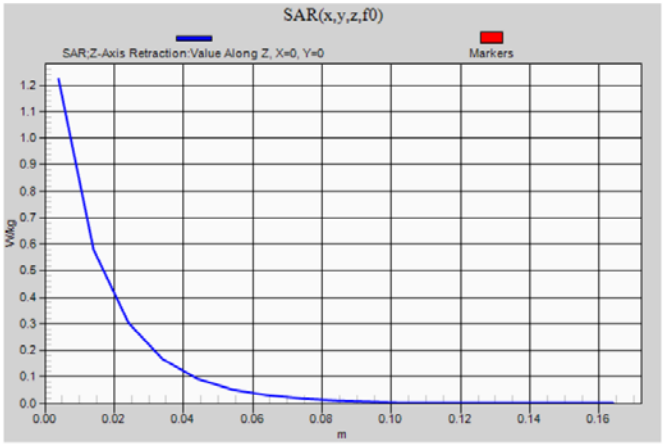
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.762 mW/g (SAR corrected for target medium)

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: 2/22/2013 5:17:49 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 450B-130222-01
Dipole Model# D450V3
Phantom#: OVAL1011
Tissue Temp: 20.6 (C)
Serial#: 1075
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.033 dB
Adjusted SAR (1W): 4.60 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.94 mho/m; ε_r = 56.9; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

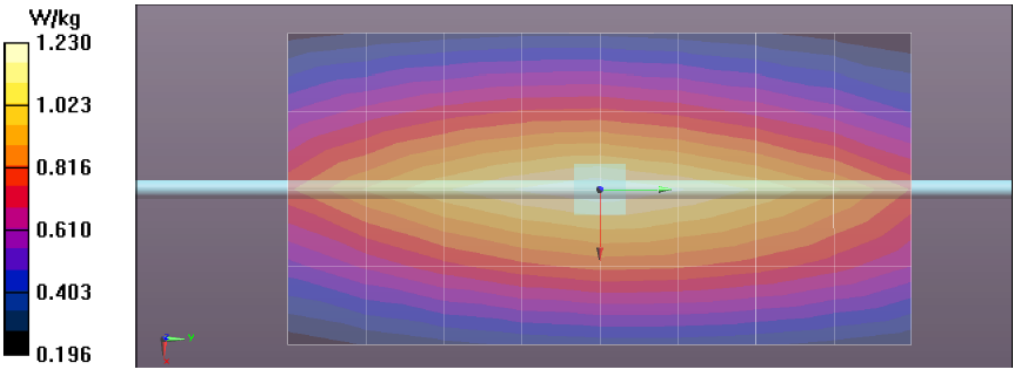
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.23 W/kg

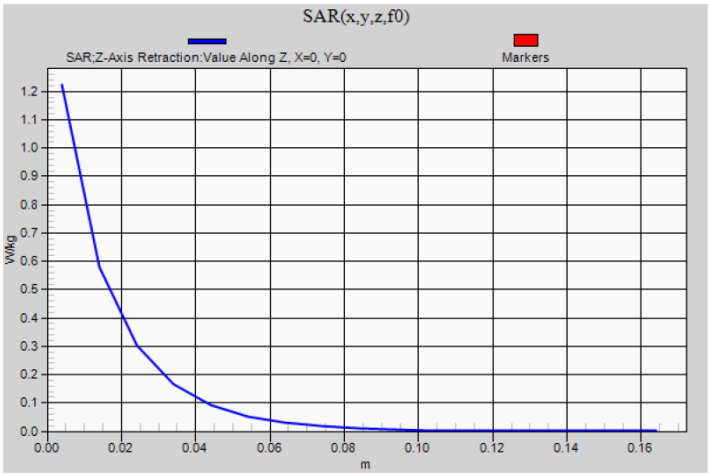
Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 36.143 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.751 mW/g
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.771 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) = 1.22 W/kg





Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/25/2013 7:01:46 AM

Robot#: DASY5-FL-3 | Run#:	JsT-SYSP-450B-130225-01
Dipole Model#	D450V3
Phantom#:	OVAL1011
Tissue Temp:	21.1 (C)
Serial#:	1075
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.025 dB
Adjusted SAR (1W):	4.52 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.91 mho/m; ε_r = 56.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):

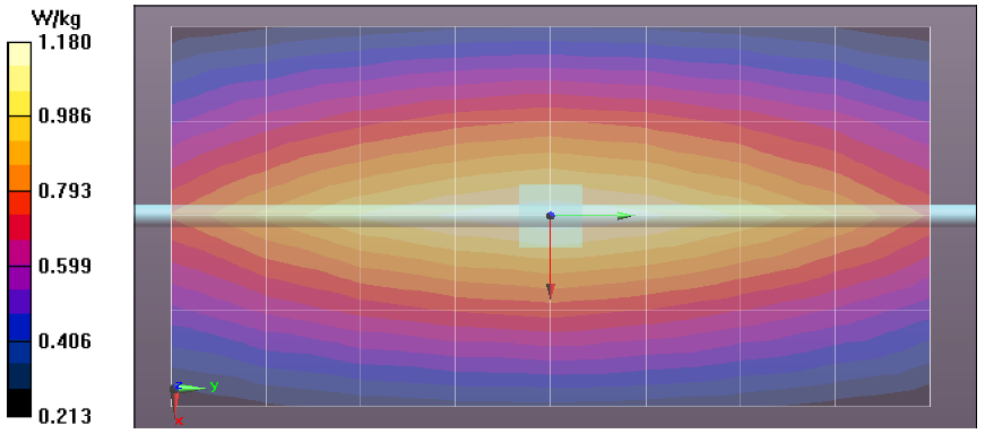
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.18 W/kg

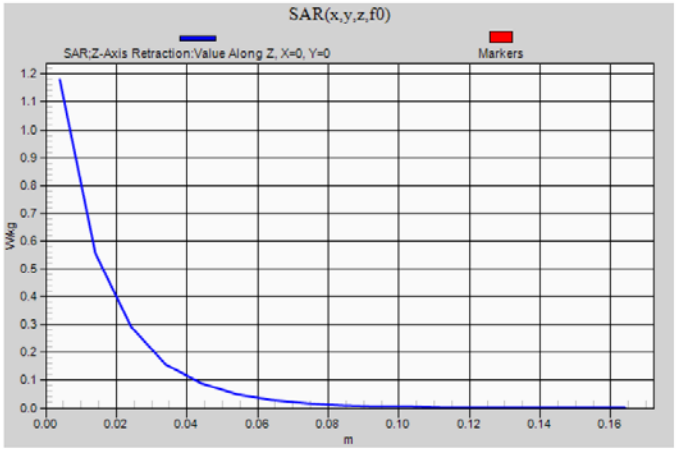
Below 3 GHz-Rev.4a/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 35.822 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.680 mW/g
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.756 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: 2/26/2013 5:41:31 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 450B-130226-01
Dipole Model# D450V3
Phantom#: OVAL1011
Tissue Temp: 20.1 (C)
Serial#: 1075
Test Freq: 450 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.028 dB
Adjusted SAR (1W): 4.56 mW/g (1g)

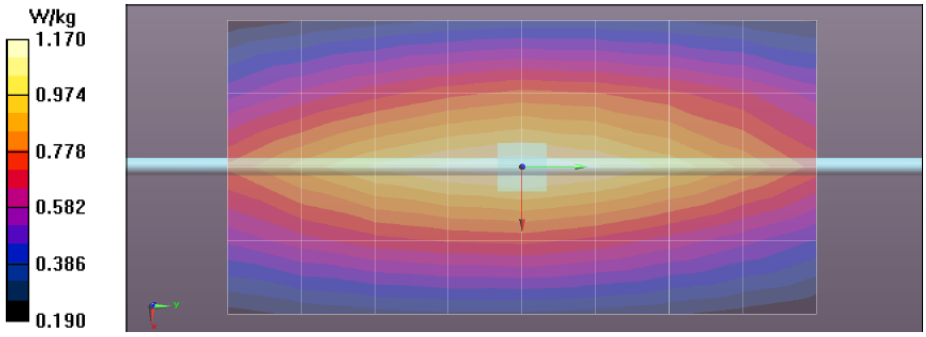
Comments:

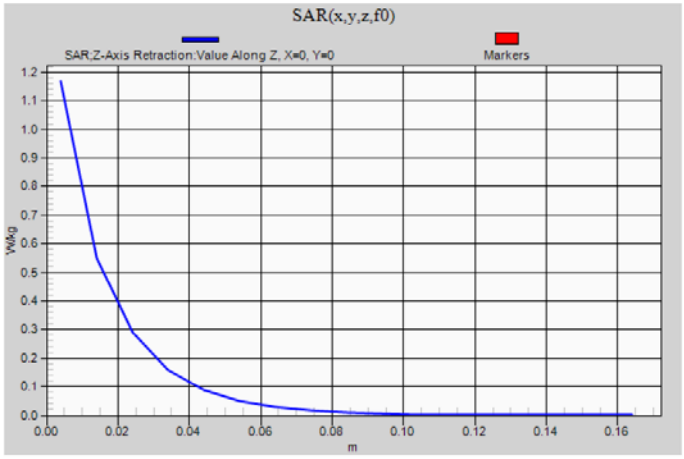
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 57.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):
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 = 36.052 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.671 mW/g
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.757 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: 4/23/2013 6:27:55 AM

Robot#: DASY5-FL-1 | Run#:	ErC-SYSP-450B-130423-01
Dipole Model#	D450V3
Phantom#:	OVAL1011
Tissue Temp:	21.1 (C)
Serial#:	1075
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.12 dB
Adjusted SAR (1W):	4.32 mW/g (1g)

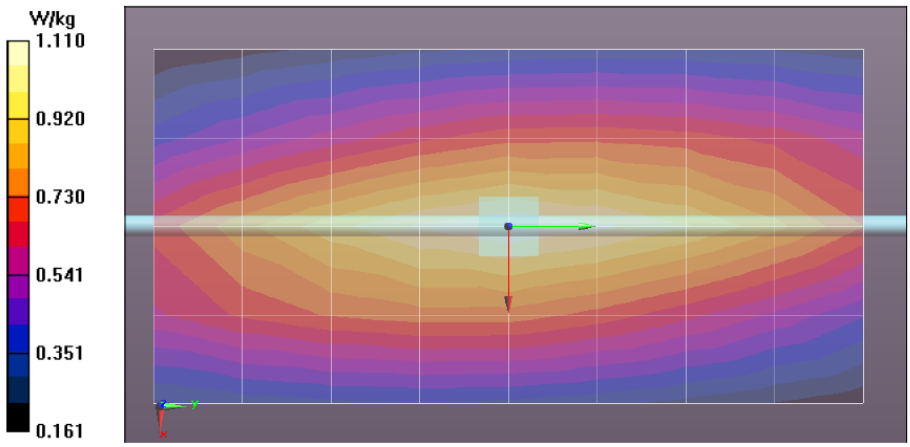
Comments:

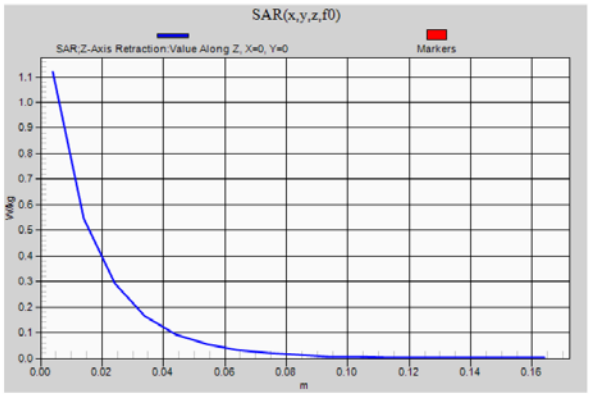
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.89 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3147, , ConvF(7.04, 7.04, 7.04); Calibrated: 1/28/2013
Electronics: DAE4 Sn850, Calibrated: 7/18/2012

Below 3 GHz-Rev.4a/System Performance Check/Dipole Area Scan 2 (5x9x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.11 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 = 35.591 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.532 mW/g
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.733 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.12 W/kg

Below 3 GHz-Rev.4a/System Performance Check/Z-Axis Retraction (1x1x17):
Measurement grid: dx=20mm, dy=20mm, dz=10mm





APPENDIX E
DUT Scans (Shortened Scan and Highest SAR configurations)

Shortened Scan Result
Table 20

Motorola Solutions, Inc. EME Laboratory
Date/Time: 4/23/2013 7:46:58 AM

Robot#: DASY5-FL-1 | Run#:	ErC-Ab-130423-02
Model#:	H59SDD9PW4AN
Phantom#:	OVAL1011
Tissue Temp:	21.2 (C)
Serial#:	536TPB0097
Antenna:	FAF5260A
Test Freq:	450.0000 (MHz)
Battery:	NNTN8128B
Carry Acc:	PMLN7008A
Audio Acc:	BT Pod
Start Power:	5.51 (W)

Comments: Short Scan

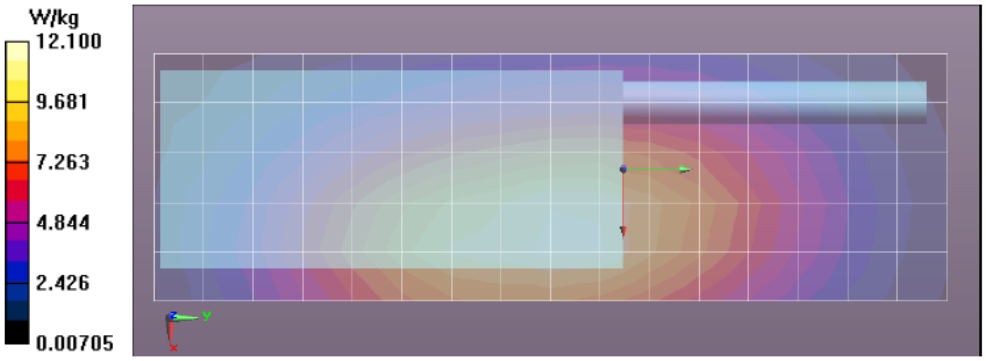
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.89 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3147, , ConvF(7.04, 7.04, 7.04); Calibrated: 1/28/2013
Electronics: DAE4 Sn850, Calibrated: 7/18/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 100.4 V/m; Power Drift = -0.23 dB
Fast SAR: SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.68 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 12.0 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.6 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 = 108.2 V/m; Power Drift = -0.30 dB
Peak SAR (extrapolated) = 15.998 mW/g
SAR(1 g) = 12.3 mW/g; SAR(10 g) = 9.01 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 12.4 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) = 12.1 W/kg



Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.
Representative full scan run time was 22 minutes.
"Shortened" scan max calculated SAR using SAR drift: 1-g Avg. = 6.70 mW/g; 10-g Avg. = 4.91 mW/g.
Zoom scan max calculated SAR using SAR drift (see part 1 table 18): 1-g Avg. = 6.94 mW/g; 10-g Avg. = 4.99 mW/g.

Body - Highest SAR Configuration Result
Table 18

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/26/2013 11:45:23 AM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130226-12
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.2 (C)
Serial#: 536TPB0097
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN7008A
Audio Acc: None - BT Pod
Start Power: 5.42 (W)

Comments: Full scan

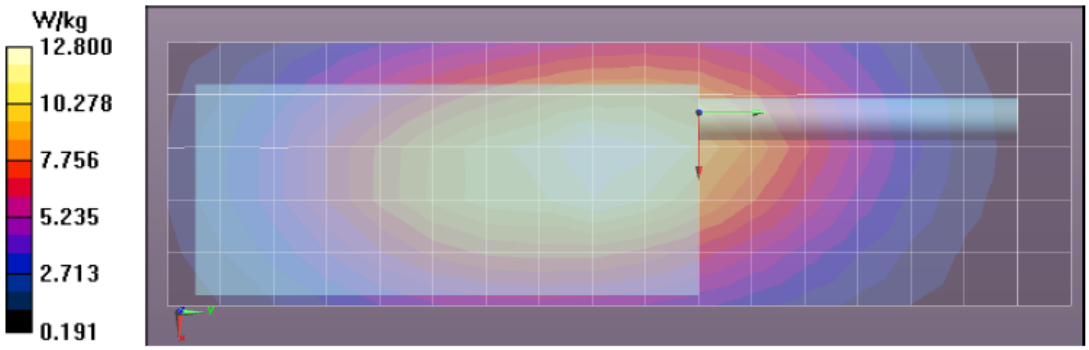
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 57.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 106.6 V/m; Power Drift = -0.26 dB
Fast SAR: SAR(1 g) = 12.8 mW/g; SAR(10 g) = 9.31 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 13.1 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.8 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 = 106.6 V/m; Power Drift = -0.35 dB
Peak SAR (extrapolated) = 17.043 mW/g
SAR(1 g) = 12.4 mW/g; SAR(10 g) = 8.91 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 12.7 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) = 12.6 W/kg



APPENDIX F
Assessment of FCC Part 90 (450-512 MHz band)

Assessments at the body with body worn PMLN4651A
Table 14

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/19/2013 9:37:44 PM

Robot#: DASY5-FL-3 | Run#: CM-Ab-130219-03
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.8 (C)
Serial#: 536TPB0026
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN4651A
Audio Acc: HMN4104B
Start Power: 5.32 (W)

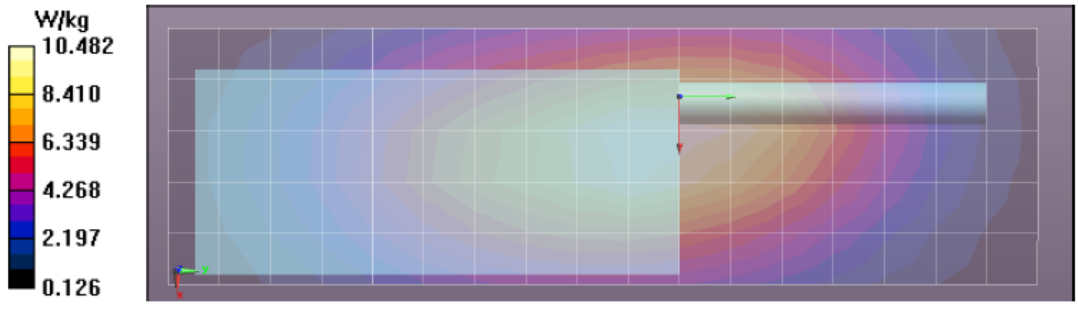
Comments: Full scan

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 56.5; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 102.4 V/m; Power Drift = -0.34 dB
Fast SAR: SAR(1 g) = 10.6 mW/g; SAR(10 g) = 7.69 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 10.8 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 = 102.4 V/m; Power Drift = -0.47 dB
Peak SAR (extrapolated) = 13.799 mW/g
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.26 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.3 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) = 10.2 W/kg



Assessments at the body with body worn PMLN7008A
Table 15

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/20/2013 8:25:26 AM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130220-05
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.1 (C)
Serial#: 536TPB0026
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN7008A
Audio Acc: HMN4104B
Start Power: 5.42 (W)

Comments: Full scan

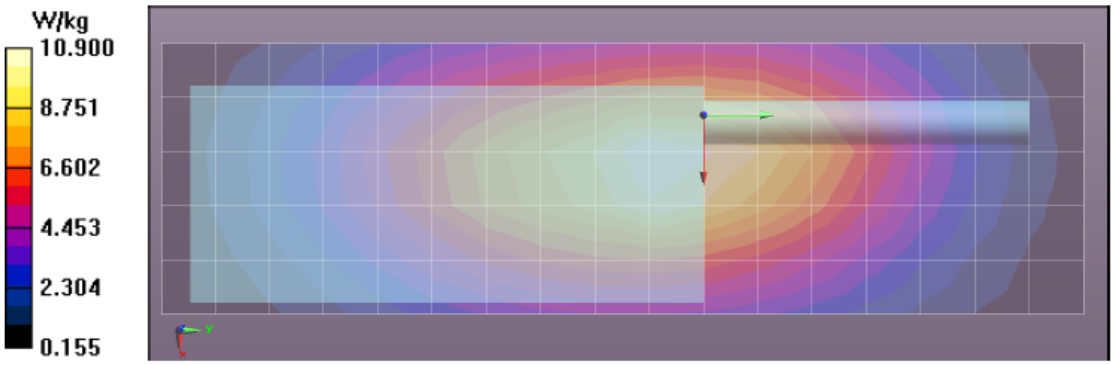
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 56.9; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 102.5 V/m; Power Drift = -0.41 dB
Fast SAR: SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.88 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 11.2 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.9 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 = 102.5 V/m; Power Drift = -0.55 dB
Peak SAR (extrapolated) = 14.401 mW/g
SAR(1 g) = 10.4 mW/g; SAR(10 g) = 7.43 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.7 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) = 10.6 W/kg



Assessments at the body with body worn PMLN6327A
Table 16

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/20/2013 1:33:18 PM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130220-13
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.0 (C)
Serial#: 536TPB0026
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8305A
Carry Acc: PMLN6327A
Audio Acc: HMN4104B
Start Power: 5.41 (W)

Comments: Full scan

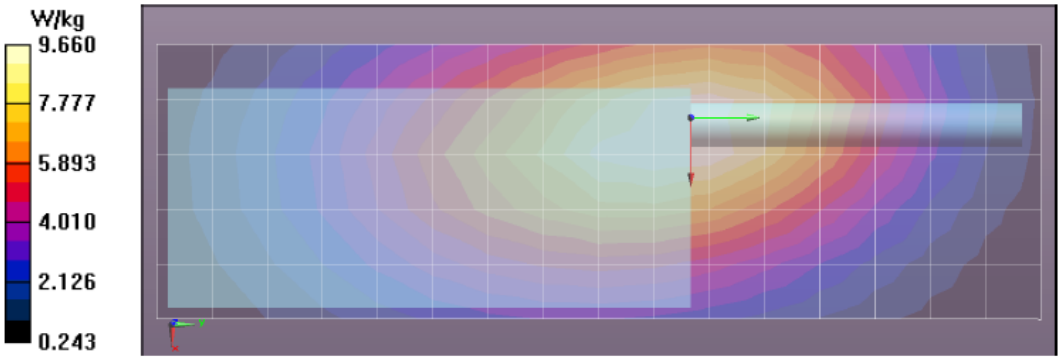
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 56.9; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 107.9 V/m; Power Drift = -0.44 dB
Fast SAR: SAR(1 g) = 9.79 mW/g; SAR(10 g) = 7.18 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 9.95 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x17x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 9.66 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 = 107.9 V/m; Power Drift = -0.62 dB
Peak SAR (extrapolated) = 12.325 mW/g
SAR(1 g) = 9.34 mW/g; SAR(10 g) = 6.85 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.49 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) = 9.31 W/kg



Assessment at the body with other audio accessories
Table 17

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/22/2013 6:24:33 AM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130222-03
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.6 (C)
Serial#: 536TPB0026
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN7008A
Audio Acc: PMMN4040A
Start Power: 5.43 (W)

Comments: Full scan

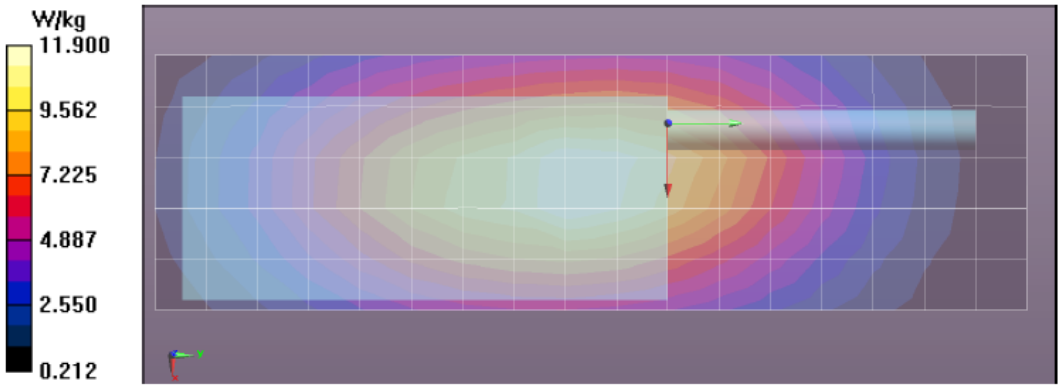
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.94 mho/m; ε_r = 56.9; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 97.757 V/m; Power Drift = -0.35 dB
Fast SAR: SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.6 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 12.5 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.9 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 = 97.757 V/m; Power Drift = -0.49 dB
Peak SAR (extrapolated) = 16.262 mW/g
SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.11 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 12.1 W/kg

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



Assessment of wireless BT configuration
Table 18

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/26/2013 11:45:23 AM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130226-12
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.2 (C)
Serial#: 536TPB0097
Antenna: FAF5260A
Test Freq: 450.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN7008A
Audio Acc: None - BT Pod
Start Power: 5.42 (W)

Comments: Full scan

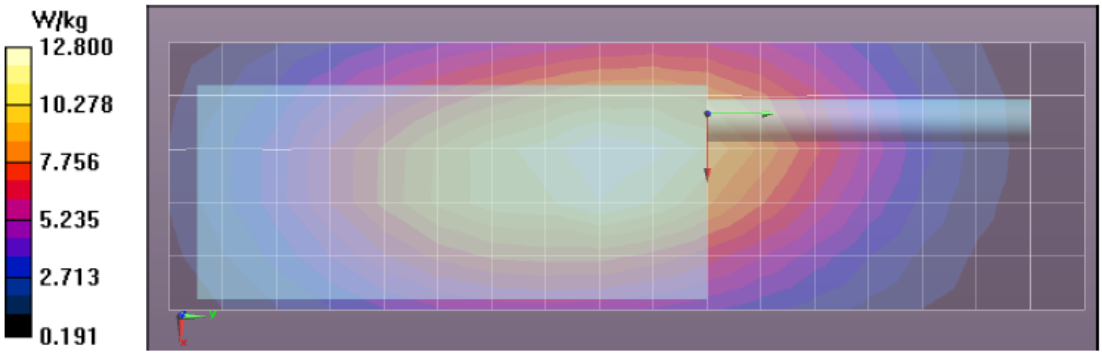
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 mho/m; ε_r = 57.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 106.6 V/m; Power Drift = -0.26 dB
Fast SAR: SAR(1 g) = 12.8 mW/g; SAR(10 g) = 9.31 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 13.1 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.8 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 = 106.6 V/m; Power Drift = -0.35 dB
Peak SAR (extrapolated) = 17.043 mW/g
SAR(1 g) = 12.4 mW/g; SAR(10 g) = 8.91 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 12.7 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) = 12.6 W/kg



APPENDIX G
Assessment of Outside Part 90 (512-520MHz)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/26/2013 12:55:17 PM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-130226-13
Model#: H59SDD9PW4N
Phantom#: OVAL1011
Tissue Temp: 20.2 (C)
Serial#: 536TPB0026
Antenna: FAF5260A
Test Freq: 516.0000 (MHz)
Battery: NNTN8128B
Carry Acc: PMLN7008A
Audio Acc: None - BT Pod
Start Power: 5.46 (W)

Comments: Full scan

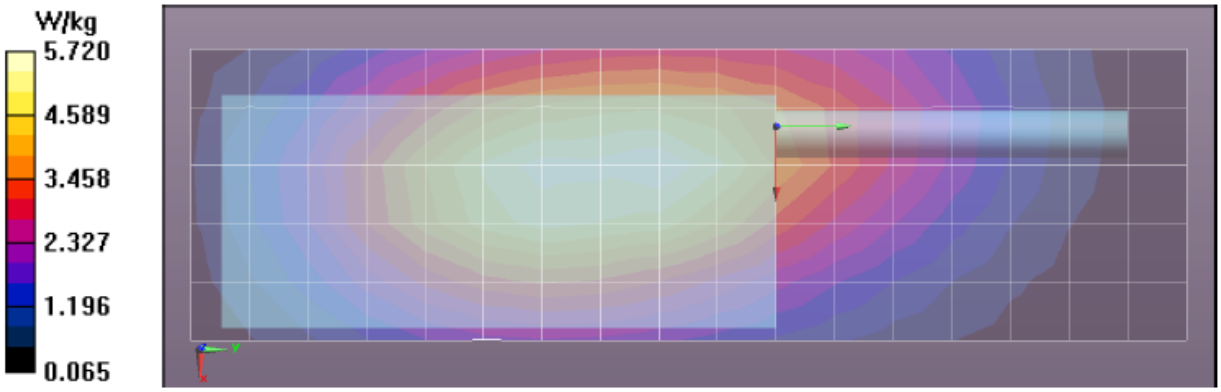
Duty Cycle: 1:1, Medium parameters used: f = 516 MHz; σ = 0.96 mho/m; ε_r = 56; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, , ConvF(6.97, 6.97, 6.97); Calibrated: 4/25/2012
Electronics: DAE4 Sn729, Calibrated: 4/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 72.176 V/m; Power Drift = -0.03 dB
Fast SAR: SAR(1 g) = 5.41 mW/g; SAR(10 g) = 3.93 mW/g (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 5.75 W/kg

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (6x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.72 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 72.176 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 7.660 mW/g
SAR(1 g) = 5.36 mW/g; SAR(10 g) = 3.9 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 5.68 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) = 5.66 W/kg

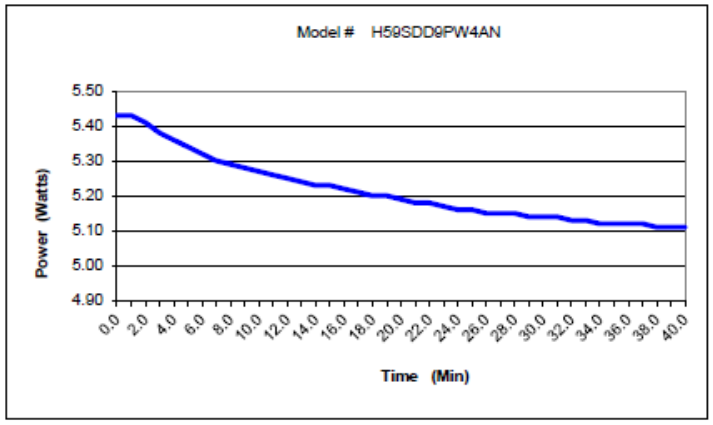


APPENDIX H
DUT Supplementary Data (Power slump)

Model # H59SDD9PW4AN
Serial # 536TPB0097

Battery	**NNTN8128B**	**Transmit Mode**	**CW**
Frequency	**450 MHz**	**Audio Accessory**	**None**
Date	**5/8/2013**		

TX TIME (Minutes)	**Measured Power (Watts)**
0.0	5.43
1.0	5.43
2.0	5.41
3.0	5.38
4.0	5.36
5.0	5.34
6.0	5.32
7.0	5.30
8.0	5.29
9.0	5.28
10.0	5.27
11.0	5.26
12.0	5.25
13.0	5.24
14.0	5.23
15.0	5.23
16.0	5.22
17.0	5.21
18.0	5.20
19.0	5.20
20.0	5.19
21.0	5.18
22.0	5.18
23.0	5.17
24.0	5.16
25.0	5.16
26.0	5.15
27.0	5.15
28.0	5.15
29.0	5.14
30.0	5.14
31.0	5.14
32.0	5.13
33.0	5.13
34.0	5.12



APPENDIX I
DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX J
DUT, Body worn and audio accessories photos

Photos available in Exhibit 7B