



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: 4/23/2013
Report Revision: O
Report ID: SR11156 APX3000 VHF Rev O
 130423

Responsible Engineer: Stephen C. Whalen (Principal Staff EME Test Engineer)
Report Author: Stephen C. Whalen (Principal Staff EME Test Engineer),
 Kim Uong (Principal Staff EME Test Engineer)
Date/s Tested: 02/04/13, 02/05/13, 3/20/13
Manufacturer/Location: Motorola, Penang
Sector/Group/Div.: AESS – Astro Engineering Subscriber Solutions
Date submitted for test: 01/10/13
DUT Description: 136-174MHz, 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: 5.9W (136-174 MHz); 10mW (Bluetooth)
Nominal Power: 5.0W (136-174 MHz); 10mW (Bluetooth)
Tx Frequency Bands: 136-174 MHz; 2402-2480 MHz (Bluetooth)
Signaling type: FM, TDMA, FHSS (Bluetooth)
Model(s) Tested: H59KGD9PW4AN
Model(s) Certified: H59KGD9PW4AN
Serial Number(s): 536TNX0256, 536TNX0271
Classification: Occupational/Controlled
FCC ID: AZ489FT3830; Rule Part 90 (150.8-173.4 MHz); Rule Part 15 (2402 – 2480 MHz)
 Results outside FCC bands are not applicable for FCC compliance demonstration.
IC: 109U-89FT3830; (138-174 MHz)

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

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Deanna Zakharia
EMS EME Lab Senior Resource Manager,
Laboratory Director
Approval Date: 4/23/2013

Certification Date: 4/23/2013

Certification No.: L1130415P

APPENDIX D

Test System Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/4/2013 7:00:49 AM

Robot#: DASY5-FL-2 | Run#: JsT-SYSP-300B-130204-01
 Dipole Model#: D300V3
 Phantom#: OVAL1090
 Tissue Temp: 22.1 (C)
 Serial#: 1015
 Test Freq: 300 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.033 dB
 Adjusted SAR (1W): 2.75 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 300 MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 56.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.07, 7.07, 7.07); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

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

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.739 W/kg

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

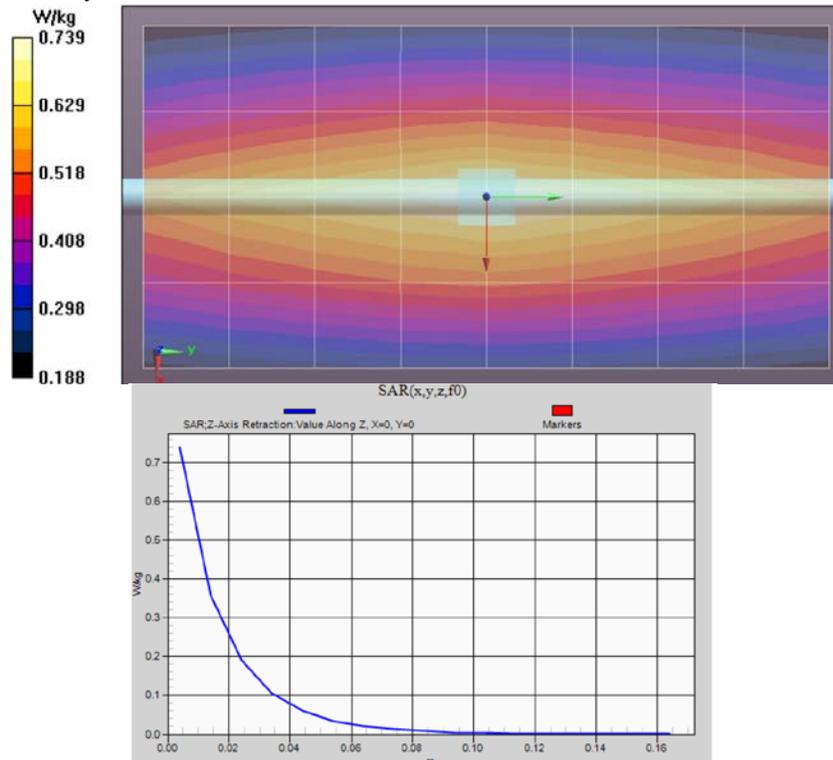
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 28.675 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 1.013 mW/g

SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.470 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.740 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: 2/5/2013 6:26:59 AM

Robot#: DASY5-FL-2 | Run#: JsT-SYSP-300B-130205-01
 Dipole Model#: D300V3
 Phantom#: OVAL1090
 Tissue Temp: 21.6 (C)
 Serial#: 1015
 Test Freq: 300 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.043 dB
 Adjusted SAR (1W): 2.76 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 300$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 56.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, ConvF(7.07, 7.07, 7.07); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

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

Measurement grid: dx=15mm, dy=15mm, Maximum value of SAR (measured) = 0.708 W/kg

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

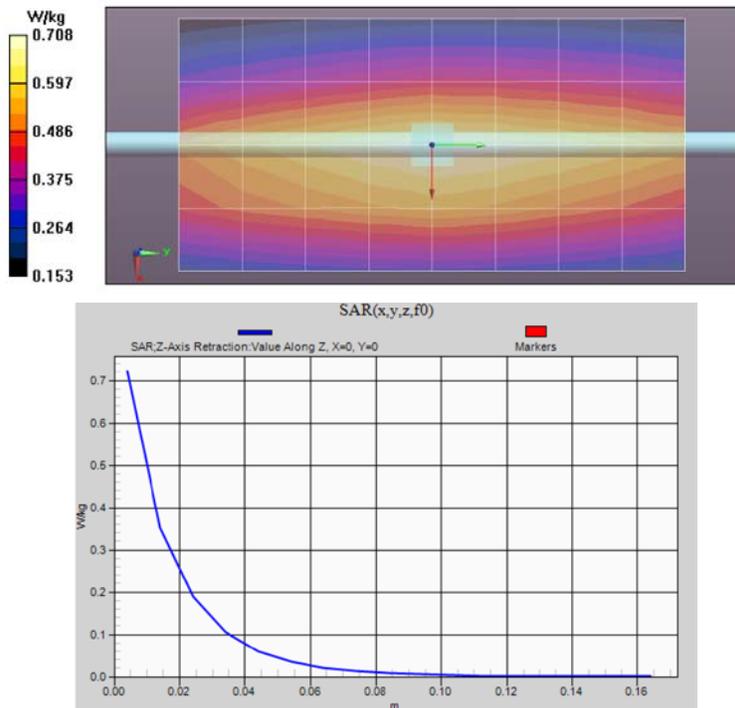
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 28.859 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.985 mW/g

SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.472 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.724 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: 3/20/2013 6:32:42 AM

Robot#: DASY5-FL-2 | Run#: JsT-SYSP-300B-130320-01
 Dipole Model# D300V3
 Phantom#: 80602002B-S1
 Tissue Temp: 21.9 (C)
 Serial#: 1015
 Test Freq: 300 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.04 dB
 Adjusted SAR (1W): 2.82 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 300 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.07, 7.07, 7.07); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

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

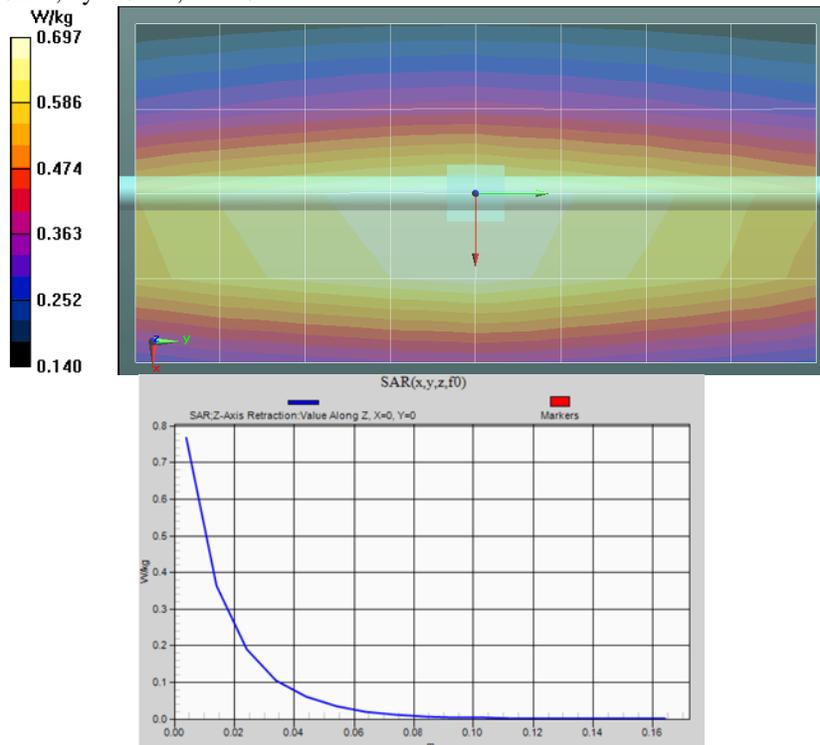
Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.697 W/kg

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 = 29.006 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 1.063 mW/g
SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.479 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.767 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 21)
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 3/20/2013 6:07:20 PM

Robot#: DASY5-FL-2 | Run#: CM-Ab-130320-10
 Model#: H59KGD9PW4AN
 Phantom#: 80602002B-S1
 Tissue Temp: 21.5 (C)
 Serial#: 536TNX0271
 Antenna: PMAD4125A
 Test Freq: 150.8000 (MHz)
 Battery: NNTN8128B
 Carry Acc: None
 Audio Acc: None-BT
 Start Power: 4.67 (W)

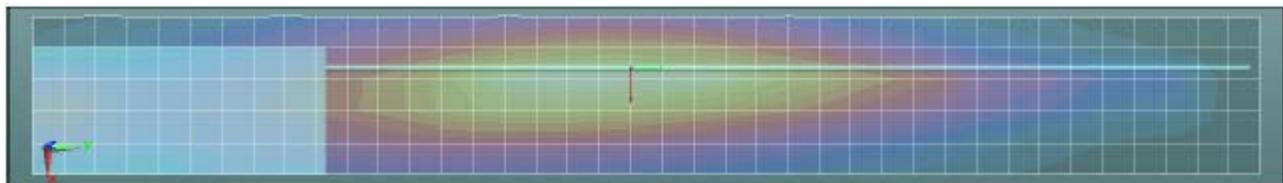
Comments: Shortened scan; Battery Side of DUT Facing Phantom; Low Power

Duty Cycle: 1:1, Medium parameters used: $f = 151 \text{ MHz}$; $\sigma = 0.8 \text{ mho/m}$; $\epsilon_r = 59.7$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x391x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Reference Value = 63.781 V/m; Power Drift = -0.14 dB
 Fast SAR: SAR(1 g) = 3.4 mW/g; SAR(10 g) = 2.5 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.60 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 67.227 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 5.220 mW/g
 SAR(1 g) = 3.48 mW/g; SAR(10 g) = 2.45 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.68 W/kg

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



Shortened scan reflect highest SAR producing configuration from FCC's Part 90; approximate run time is 7 minutes.
 Representative full scan run time was 30 minutes.
 "Shortened" scan max calculated SAR using SAR drift: 1-g Avg. = 2.20 mW/g; 10-g Avg. = 1.55 mW/g.
 Zoom scan max calculated SAR using SAR drift (see part 1 table 19): 1-g Avg. = 2.19 mW/g; 10-g Avg. = 1.54 mW/g.

**Body - Highest SAR Configuration Result
(Table 20)**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 2/4/2013 5:44:31 PM

Robot#: DASY5-FL-2 | Run#: CM-Ab-130204-09
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.2 (C)
 Serial#: 536TNX0271
 Antenna: NAR6593A
 Test Freq: 138.0000 (MHz)
 Battery: NNTN8128B
 Carry Acc: PMLN7008A
 Audio Acc: None-BT
 Start Power: 4.66 (W)

Comments: Full Scan; Used BT pod NTN2574B for PTT.

Duty Cycle: 1:1, Medium parameters used: $f = 138 \text{ MHz}$; $\sigma = 0.82 \text{ mho/m}$; $\epsilon_r = 60.1$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

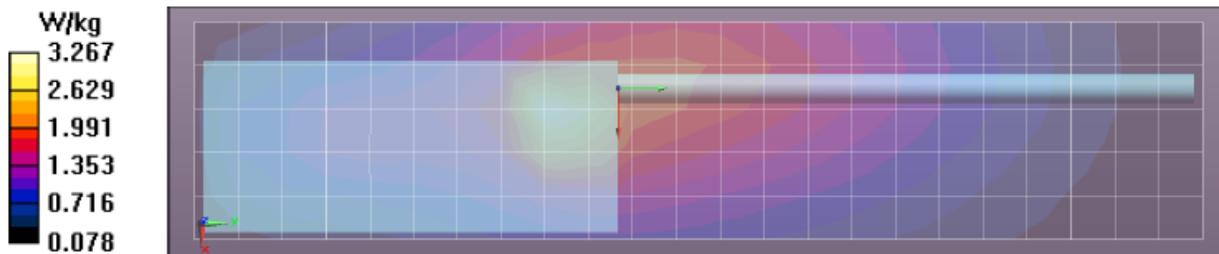
Reference Value = 53.050 V/m; Power Drift = -0.35 dB
 Fast SAR: SAR(1 g) = 3.08 mW/g; SAR(10 g) = 2.14 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.41 W/kg

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 = 53.050 V/m; Power Drift = -0.54 dB
 Peak SAR (extrapolated) = 7.346 mW/g
 SAR(1 g) = 3.35 mW/g; SAR(10 g) = 1.97 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.55 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) = 3.56 W/kg



APPENDIX F
Assessment of FCC Part 90

**Non-covert assessment at the body with body worn PMLN4651A
(Table 14)**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/4/2013 11:03:44 AM**

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130204-02
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.5 (C)
 Serial#: 536TNX0256
 Antenna: NAR6593A
 Test Freq: 158.3000 (MHz)
 Battery: NNTN8128B
 Carry Acc: PMLN4651A
 Audio Acc: HMN4104B
 Start Power: 4.70 (W)

Comments: Full Scan

Duty Cycle: 1:1, Medium parameters used: $f = 158 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 60.3$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 33.297 V/m; Power Drift = -0.31 dB

Fast SAR: SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.683 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.07 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 = 33.297 V/m; Power Drift = -0.41 dB

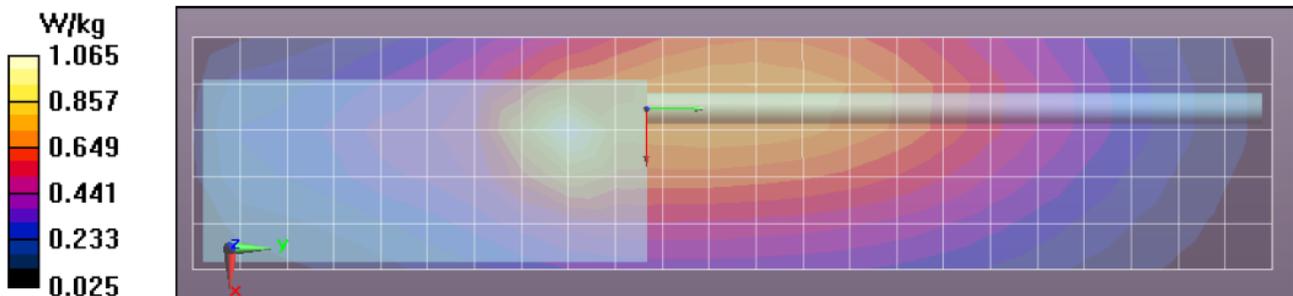
Peak SAR (extrapolated) = 1.821 mW/g

SAR(1 g) = 0.972 mW/g; SAR(10 g) = 0.627 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.02 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17):

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



**Non-covert assessment at the body with body worn PMLN7008A
(Table 15)**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/4/2013 1:15:26 PM**

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130204-04
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.3 (C)
 Serial#: 536TNX0256
 Antenna: NAR6593A
 Test Freq: 158.3000 (MHz)
 Battery: NNTN8128B
 Carry Acc: PMLN7008A
 Audio Acc: HMN4104B
 Start Power: 4.71 (W)

Comments: Full Scan

Duty Cycle: 1:1, Medium parameters used: $f = 158$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 60.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 32.122 V/m; Power Drift = -0.36 dB

Fast SAR: SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.695 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.14 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 = 32.122 V/m; Power Drift = -0.66 dB

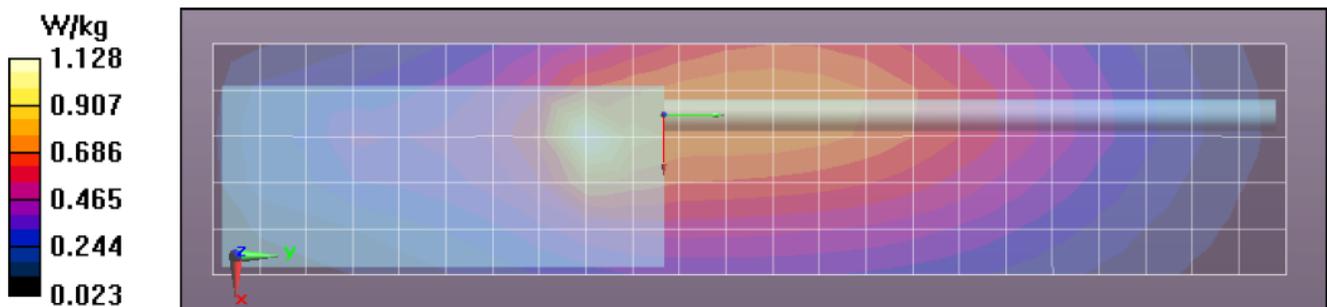
Peak SAR (extrapolated) = 1.949 mW/g

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.631 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.07 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17):

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



**Non-covert assessment at the body with body worn PMLN6327A
(Table 16)**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/4/2013 2:28:24 PM**

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130204-06
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.5 (C)
 Serial#: 536TNX0256
 Antenna: NAR6593A
 Test Freq: 158.3000 (MHz)
 Battery: NNTN8305A
 Carry Acc: PMLN6327A
 Audio Acc: HMN4104B
 Start Power: 4.69 (W)

Comments: Full Scan

Duty Cycle: 1:1, Medium parameters used: $f = 158$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 60.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 33.506 V/m; Power Drift = -0.32 dB

Fast SAR: SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.663 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.912 W/kg

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x6x7)/Cube 0:

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

Reference Value = 33.506 V/m; Power Drift = -0.51 dB

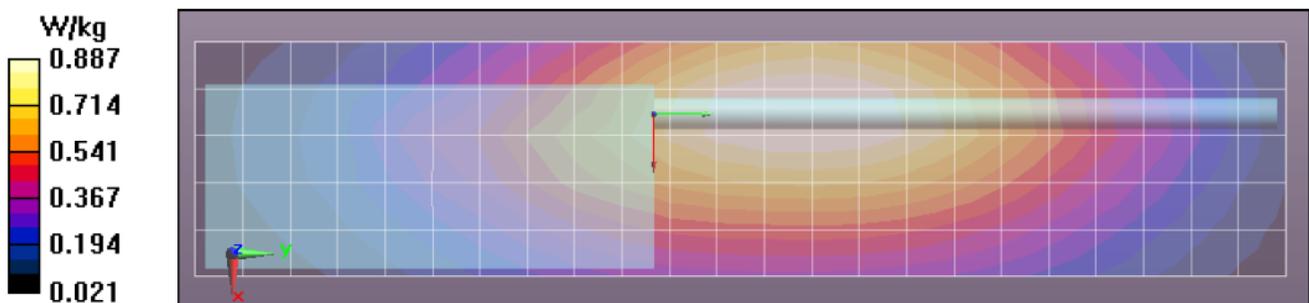
Peak SAR (extrapolated) = 1.138 mW/g

SAR(1 g) = 0.843 mW/g; SAR(10 g) = 0.643 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.881 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17):

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



**Non-covert assessment of wireless BT configuration
(Table 17)**

**Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/4/2013 3:26:45 PM**

Robot#: DASY5-FL-2 | Run#: JsT-Ab-130204-07
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.5 (C)
 Serial#: 536TNX0256
 Antenna: NAR6593A
 Test Freq: 158.3000 (MHz)
 Battery: NNTN8128B
 Carry Acc: PMLN7008A
 Audio Acc: None
 Start Power: 4.72 (W)

Comments: Full Scan

Duty Cycle: 1:1, Medium parameters used: $f = 158$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 60.3$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012

Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 38.503 V/m; Power Drift = -0.26 dB

Fast SAR: SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.05 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.70 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 = 38.503 V/m; Power Drift = -0.42 dB

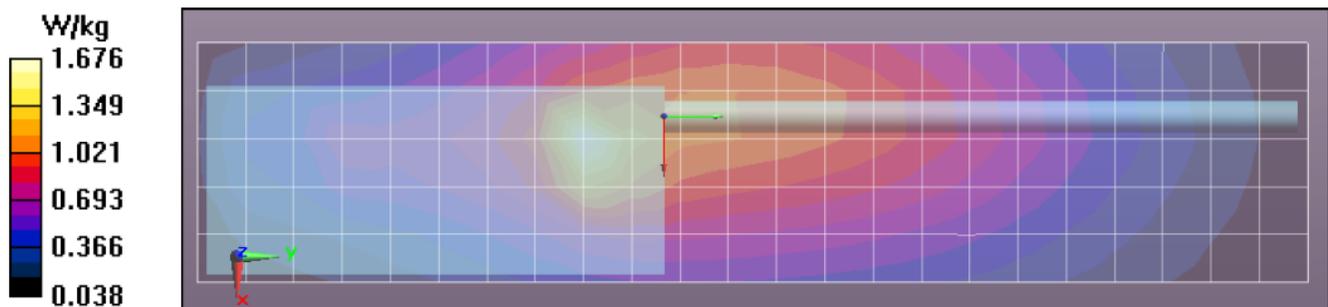
Peak SAR (extrapolated) = 3.110 mW/g

SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.967 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.65 W/kg

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17):

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



**Covert assessment at the body with no body worn attached
(Table 19)**

Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/20/2013 3:53:56 PM

Robot#: DASYS-FL-2 | Run#: JsT-Ab-130320-09
 Model#: H59KGD9PW4AN
 Phantom#: 80602002B-S1
 Tissue Temp: 21.4 (C)
 Serial#: 536TNX0271
 Antenna: PMAD4125A
 Test Freq: 150.8000 (MHz)
 Battery: NNTN8128B
 Carry Acc: None
 Audio Acc: None-BT
 Start Power: 4.72 (W)

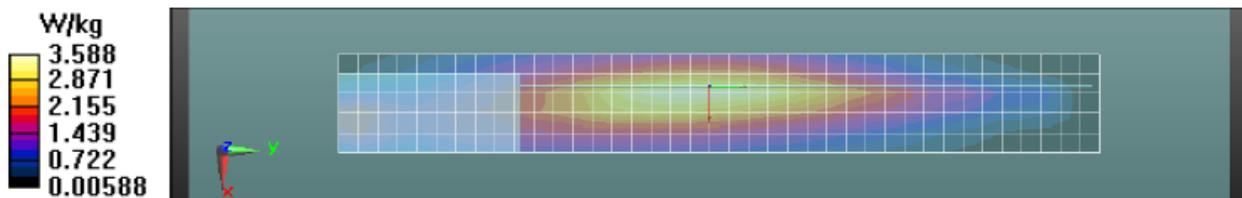
Comments: Full scan; Battery Side of DUT Facing Phantom; Low Power

Duty Cycle: 1:1, Medium parameters used: $f = 151 \text{ MHz}$; $\sigma = 0.8 \text{ mho/m}$; $\epsilon_r = 59.7$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn363, Calibrated: 1/28/2013

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x391x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Reference Value = 64.157 V/m; Power Drift = -0.15 dB
 Fast SAR: SAR(1 g) = 3.42 mW/g; SAR(10 g) = 2.51 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.62 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 = 64.157 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 5.049 mW/g
 SAR(1 g) = 3.36 mW/g; SAR(10 g) = 2.37 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.56 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) = 3.55 W/kg



APPENDIX G

**Assessment of Outside FCC Part 90
(Table 20)**

Motorola Solutions, Inc. EME Laboratory
Date/Time: 2/4/2013 5:44:31 PM

Robot#: DASY5-FL-2 | Run#: CM-Ab-130204-09
 Model#: H59KGD9PW4AN
 Phantom#: OVAL1090
 Tissue Temp: 21.2 (C)
 Serial#: 536TNX0271
 Antenna: NAR6593A
 Test Freq: 138.0000 (MHz)
 Battery: NNTN8128B
 Carry Acc: PMLN7008A
 Audio Acc: None-BT
 Start Power: 4.66 (W)

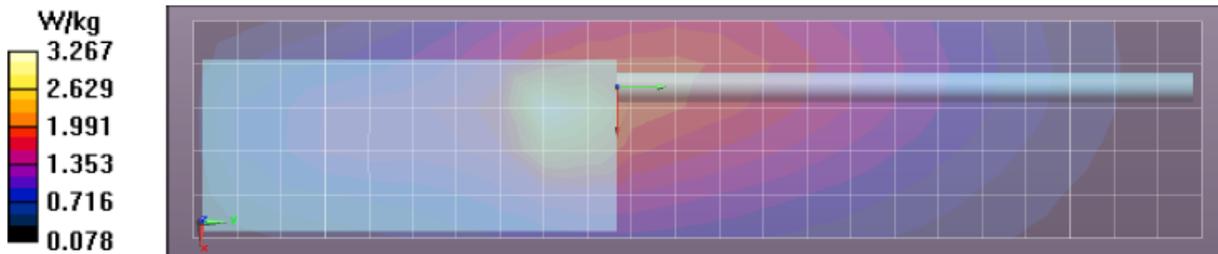
Comments: Full Scan; Used BT pod NTN2574B for PTT.

Duty Cycle: 1:1, Medium parameters used: $f = 138$ MHz; $\sigma = 0.82$ mho/m; $\epsilon_r = 60.1$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3301, , ConvF(7.8, 7.8, 7.8); Calibrated: 7/30/2012
 Electronics: DAE3 Sn401, Calibrated: 3/9/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (51x231x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Reference Value = 53.050 V/m; Power Drift = -0.35 dB
 Fast SAR: SAR(1 g) = 3.08 mW/g; SAR(10 g) = 2.14 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 3.41 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 = 53.050 V/m; Power Drift = -0.54 dB
 Peak SAR (extrapolated) = 7.346 mW/g
 SAR(1 g) = 3.35 mW/g; SAR(10 g) = 1.97 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 3.55 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) = 3.56 W/kg



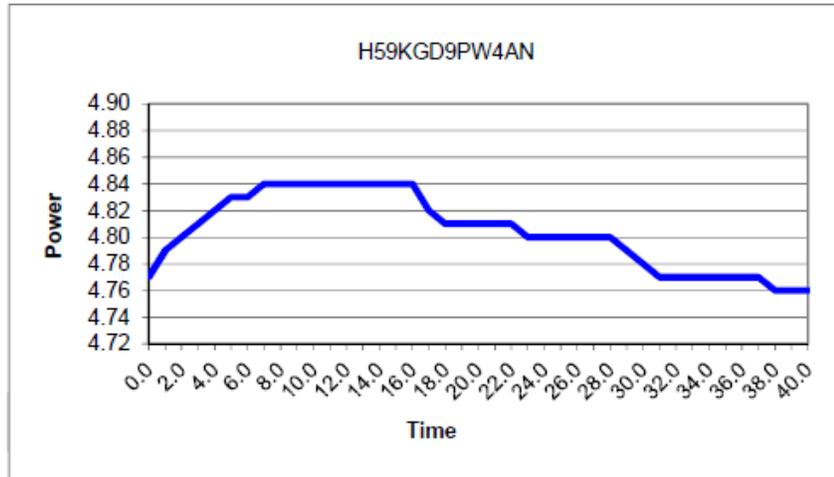
APPENDIX H DUT Supplementary Data (Power slump)

**Model # H59KGD9PW4AN
Serial # 536TNX0256**

| | | | |
|------------------|-----------|------------------------|------|
| Battery# | NNTN8128B | Transmit Mode | CW |
| Frequency | 150.8 MHz | Audio Accessory | None |
| Date | 3/18/2013 | | |

| TX TIME (Minutes) | Measured Power (Watts) |
|----------------------|---------------------------|
|----------------------|---------------------------|

| | |
|------|------|
| 0.0 | 4.77 |
| 1.0 | 4.79 |
| 2.0 | 4.80 |
| 3.0 | 4.81 |
| 4.0 | 4.82 |
| 5.0 | 4.83 |
| 6.0 | 4.83 |
| 7.0 | 4.84 |
| 8.0 | 4.84 |
| 9.0 | 4.84 |
| 10.0 | 4.84 |
| 11.0 | 4.84 |
| 12.0 | 4.84 |
| 13.0 | 4.84 |
| 14.0 | 4.84 |
| 15.0 | 4.84 |
| 16.0 | 4.84 |
| 17.0 | 4.82 |
| 18.0 | 4.81 |
| 19.0 | 4.81 |
| 20.0 | 4.81 |
| 21.0 | 4.81 |
| 22.0 | 4.81 |
| 23.0 | 4.80 |
| 24.0 | 4.80 |
| 25.0 | 4.80 |
| 26.0 | 4.80 |
| 27.0 | 4.80 |
| 28.0 | 4.80 |
| 29.0 | 4.79 |
| 30.0 | 4.78 |
| 31.0 | 4.77 |
| 32.0 | 4.77 |
| 33.0 | 4.77 |
| 34.0 | 4.77 |
| 35.0 | 4.77 |
| 36.0 | 4.77 |
| 37.0 | 4.77 |
| 38.0 | 4.76 |
| 39.0 | 4.76 |
| 40.0 | 4.76 |



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