


MOTOROLA SOLUTIONS

TESTING CERT # 2518.01
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory
 8000 West Sunrise Blvd
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Date of Report: 2/22/12
Report Revision: O
Report ID: SR9956 APX7000 PCII U2 VHF 2of
 2 Rev O 120222

Responsible Engineer: Michael Sailsman (Senior Staff Eng.)
Report Author: Michael Sailsman (Senior Staff Eng.)
Date/s Tested: 12/2/11; 12/9/11
Manufacturer/Location: Penang
Sector/Group/Div.: Astro Engineering Subscriber Solutions
Date submitted for test: 10/12/11
DUT Description: 136-174MHz 1-6W, 450-520MHz 1-5W, 2.402-2.480 GHz (Bluetooth), 6.25kHz/12.5kHz/25kHz, Basic Top Display Model W/GPS. Capable of digital and analog FM transmission. Also capable of TDMA transmission and Bluetooth.

Test TX mode(s): CW (PTT)
Max. Power output: 6.6W(VHF), 5.6W (UHF R2), 0.012W (Bluetooth)
Nominal Power: 6.0W (VHF), 5.0W (UHF R2), 0.012W (Bluetooth)
Tx Frequency Bands: 136 - 174 MHz; 450-520 MHz; 2.402-2.480 GHz
Signaling type: FM; TDMA; FHSS
Model(s) Tested: H97TGD9PW1AN (MNUT1015A)
Model(s) Certified: H97TGD9PW1AN (MNUT1015A)
Serial Number(s): CAI1004W9P
Classification: Occupational/Controlled
FCC ID: AZ489FT4893; Rule part 90 150.8 - 174MHz; 450-512MHz. Results outside these bands are not applicable to demonstrate FCC compliance.
IC: 109U-89FT4893; 138-144MHz; 148-149.9MHz and 150.05-174MHz; 450-470MHz. Results outside these bands are not applicable to demonstrate IC compliance.

* 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: 2/24/2012

Certification Date: 2/24/2012

Certification No.: 120206AD

Appendix D Test System Verification Scans

The SAR result indicated on the Manufacture's Calibrated certificate for dipole D450V3 S/N 1075 is not used due to the following:

-- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.

-- SPEAG calibration certificate indicates that the allowed tolerance for the dipole is higher than +/-10% (e.g. 4.69 +/-18.1% at k=2 for the D450V3 S/N 1075).

-- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 13.4% k=2 at 450 MHz and for the probe being used to assess this product).

Due to probe, dipole and system tolerances noted above, the lab averages dipole results across multiple probes to establish a set of averaged targets for each dipole using the following procedure:

- The System Validation was conducted per IEEE1528-2003 and IEC62209-2 Edition 1.0 2010-03 standards using the simulated head tissue and multiple probes that are available and applicable for the dipole under test to verify the System Validation. Results for this dipole are within the measurement system uncertainty of the reference SAR values indicated within IEC62209-2 Edition 1.0 2010-03 when using flat phantom with 2mm thickness is used. These results then are averaged and used as the target for the daily system performance check when the simulated head tissue is used.
- The dipole targets for the body are set immediately following the same process noted above. Since there is no standard referencing the SAR values for the System Validation using the simulated body tissue, the compliant System Validation results using the simulated head tissue are used to justify the use of the System Validation results using the simulated body tissue due to the same setup except for the simulated tissue type.

The targets set in this report were conducted following the above process.

Note that the target set for the tested dipole, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the difference between this result and the result from the manufacture's dipole calibration certificate is 2.56% for the 450MHz dipole which is well within the measurement uncertainty of the measurement system at k=2.

To assess the isotropic characteristics of the measurement probe, a probe rotation was performed using the "Rotation (1D)" function in the DASY software with a measured isotropy tolerance of +/- 0.5dB.

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Date/Time: 12/2/2011 9:35:01 AM, Date/Time: 12/2/2011 9:40:01 AM, Date/Time: 12/2/2011 9:56:05 AM

Robot# / Run#: DASY5-FL-1 / HvH-SYSP-450B-111202-01
 Phantom# / Tissue Temp.: OVAL1090 / 21.8 (C)
 Dipole Model# / Serial#: D450V3 / 1075
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.65 mW/g (1g)
 Adjusted SAR (1W): 4.40 mW/g (1g)
 Percent from Target (+/-): 5.4 % (1g)
 Rotation (1D): 0.012 dB

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: 1.10 mW/g (1g); 0.730 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)
 Electronics: DAE4 Sn1231, Calibrated: 9/21/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.31/System Performance Check/Dipole Area Scan 2 (41x81x1):

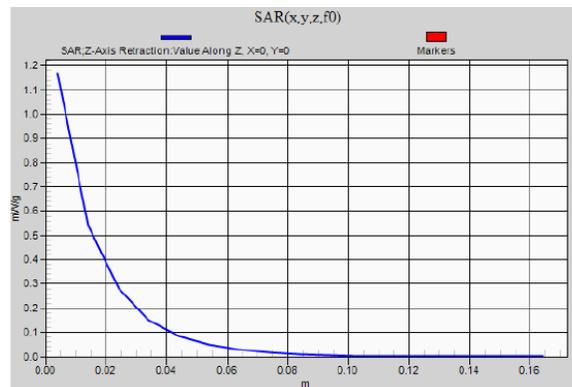
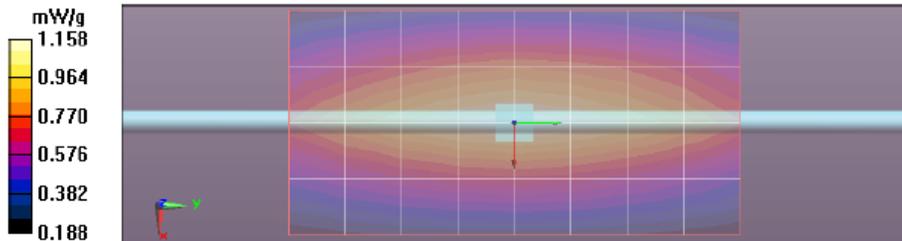
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 35.612 V/m; Power Drift = -6.6e-005 dB
 Motorola Fast SAR: SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.779 mW/g
 Maximum value of SAR (interpolated) = 1.166 mW/g

Below 3 GHz-Rev.31/System Performance Check/0-Degree Cube (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 35.612 V/m; Power Drift = -6.6e-005 dB
 Peak SAR (extrapolated) = 1.702 W/kg
 SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.726 mW/g
 Maximum value of SAR (measured) = 1.168 mW/g

Below 3 GHz-Rev.31/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.169 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/9/2011 9:56:02 AM, Date/Time: 12/9/2011 10:01:02 AM, Date/Time: 12/9/2011 10:17:08 AM

Robot# / Run#: DASY5-FL-1 / HvH-SYSP-450B-111209-01
 Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)
 Dipole Model# / Serial#: D450V3 / 1075
 TX Freq. / Start power: 450 (MHz) / 250 (mW)

Target SAR (1W): 4.65 mW/g (1g)
 Adjusted SAR (1W): 4.48 mW/g (1g)
 Percent from Target (+/-): 3.70 % (1g)
 Rotation (1D): 0.013 dB

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: 1.12 mW/g (1g); 0.744 mW/g (10g)

Comments:

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)
 Electronics: DAE4 Sn1231, Calibrated: 9/21/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.31/System Performance Check/Dipole Area Scan 2 (41x81x1):

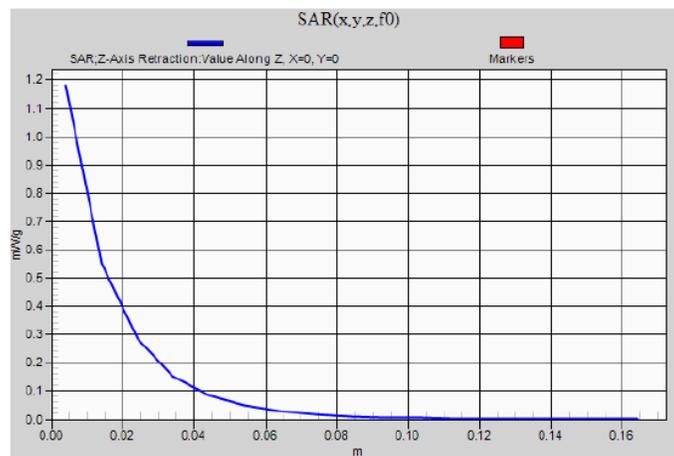
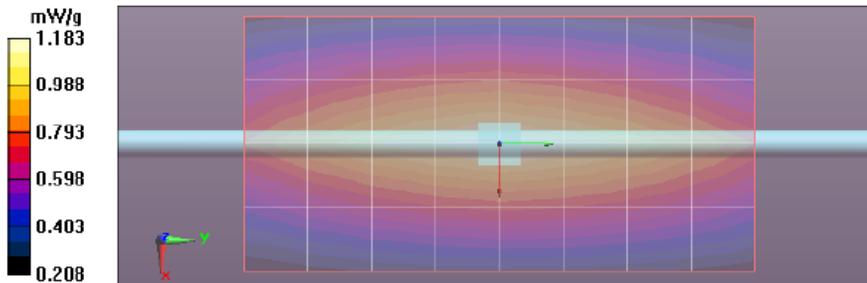
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 35.992 V/m; Power Drift = -0.0038 dB
 Motorola Fast SAR: SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.792 mW/g
 Maximum value of SAR (interpolated) = 1.183 mW/g

Below 3 GHz-Rev.31/System Performance Check/0-Degree Cube (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 35.992 V/m; Power Drift = -0.0038 dB
 Peak SAR (extrapolated) = 1.716 W/kg
 SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.737 mW/g
 Maximum value of SAR (measured) = 1.182 mW/g

Below 3 GHz-Rev.31/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.180 mW/g



DIPOLE SAR TARGET - HEAD

Date: 09/12/11 Frequency (MHz): 450
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 401 Ambient Temp.(°C): 21.9

Tissue Characteristics
 Permittivity: 44.3 Phantom Type/SN: OVAL1108
 Conductivity: 0.88 Distance (mm): 15
 Tissue Temp.(°C): 21.8

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 1075

Target 1g-SAR Value (mW/g, normalized to 1.0 W):
4.58

Difference from Target
5.09% (1g-SAR)

New Target:
Average 1g-SAR Value (mW/g): **4.81**

Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3147	4.84	0.6%	R1
3163	4.76	-1.1%	R1
3185	4.84	0.6%	R1
Average 4.8133		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

DIPOLE SAR TARGET - BODY

Date: 09/12/11 Frequency (MHz): 450
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 401 Ambient Temp.(°C): 22.1

Tissue Characteristics
 Permittivity: 56.1 Phantom Type/SN: OVAL1090
 Conductivity: 0.95 Distance (mm): 15
 Tissue Temp.(°C): 21.8

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 1075

New Target:

Average Measured SAR Value: 4.65 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	4.72	1.4%	R1
3163	4.56	-2.0%	R1
3185	4.68	0.6%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

Appendix E
DUT Scans

Table 12
Body - Highest SAR Configuration Result (FCC Part 90)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/9/2011 12:08:22 PM, Date/Time: 12/9/2011 12:25:29 PM, Date/Time: 12/9/2011 12:28:29 PM,
Date/Time: 12/9/2011 12:36:10 PM

Robot# / Run#: DASY5-FL-1 / HvH-Ab-111209-04
Phantom# / Tissue Temp.: OVAL1090 / 21.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (MNUT1015A) / CAI1004W9P
Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: NTN5243A w/ PMLN5325B / PMLN5101A
Start Power: 5.35 (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: 8.71 mW/g (1g); 6.44 mW/g (10g)

Comments: Zoom scan. Back facing phantom.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)
Electronics: DAE4 Sn1231, Calibrated: 9/21/2011

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 78.158 V/m; Power Drift = -0.22 dB

Motorola Fast SAR: SAR(1 g) = 8.75 mW/g; SAR(10 g) = 6.49 mW/g

Maximum value of SAR (interpolated) = 9.180 mW/g

Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 78.158 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 8.66 mW/g; SAR(10 g) = 6.4 mW/g

Maximum value of SAR (interpolated) = 9.076 mW/g

Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 78.158 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 11.578 W/kg

SAR(1 g) = 8.57 mW/g; SAR(10 g) = 6.38 mW/g

Maximum value of SAR (measured) = 8.995 mW/g

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

Maximum value of SAR (measured) = 8.951 mW/g



Table 12
Body - Highest SAR Configuration Result (Outside FCC Part 90)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/9/2011 4:21:34 PM, Date/Time: 12/9/2011 4:38:43 PM, Date/Time: 12/9/2011 4:41:45 PM,
 Date/Time: 12/9/2011 4:49:26 PM

Robot# / Run#: DASY5-FL-1 / CM-Ab-111209-09
 Phantom# / Tissue Temp.: OVAL1090 / 21.3 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (MNUT1015A) / CAI1004W9P
 Antenna / TX Freq.: FAF5260A / 520.0000 (MHz)
 Battery: NNTN7034A
 Carry Acc. / Cable Acc.: NTN5243A w/ PMLN5325B / PMLN5101A
 Start Power: 5.56 (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: 8.11 mW/g (1g); 5.93 mW/g (10g)

Comments: Zoom scan. Back facing phantom.

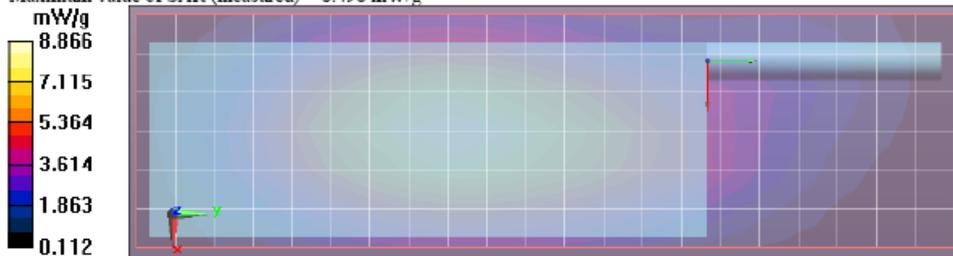
Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(7.01, 7.01, 7.01)
 Electronics: DAE4 Sn1231, Calibrated: 9/21/2011
 Duty Cycle: 1:1, Medium parameters used: $f = 520$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_1 = 53.8$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Ab Scan/1-Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 73.647 V/m; Power Drift = -0.22 dB
 Motorola Fast SAR: SAR(1 g) = 8.44 mW/g; SAR(10 g) = 6.2 mW/g
 Maximum value of SAR (interpolated) = 8.879 mW/g

Below 3 GHz-Rev.4e/Ab Scan/2-Volume 2D Scan (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm
 Reference Value = 73.647 V/m; Power Drift = -0.25 dB
 Peak SAR (extrapolated) = **Not Specified** W/kg
 Motorola Fast SAR: SAR(1 g) = 8.26 mW/g; SAR(10 g) = 6.07 mW/g
 Maximum value of SAR (interpolated) = 8.669 mW/g

Below 3 GHz-Rev.4e/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 73.647 V/m; Power Drift = -0.32 dB
 Peak SAR (extrapolated) = 11.118 W/kg
 SAR(1 g) = 8.11 mW/g; SAR(10 g) = 5.93 mW/g
 Maximum value of SAR (measured) = 8.501 mW/g

Below 3 GHz-Rev.4e/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 8.498 mW/g



520MHz data is not applicable for demonstrating FCC compliance

Table 13
Face - Highest SAR Configuration Result (FCC Part 90)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/2/2011 2:21:30 PM, Date/Time: 12/2/2011 2:38:30 PM, Date/Time: 12/2/2011 2:41:30 PM,
Date/Time: 12/2/2011 2:49:11 PM

Robot# / Run#: DASY5-FL-1 / HvH-Face-111202-06
Phantom# / Tissue Temp.: OVAL1108 / 21.1 (C)
DUT Model# / Serial#: H97TGD9PW1AN (MNUT1015A) / CAI1004W9P
Antenna / TX Freq.: FAF5260A / 450.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: None / None
Start Power: 5.44 (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: 7.01 mW/g (1g); 5.26 mW/g (10g)

Comments: Back facing phantom. Zoom scan.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.53, 6.53, 6.53)
Electronics: DAE4 Sn1231, Calibrated: 9/21/2011

Duty Cycle: 1:1, Medium parameters used: $f = 450$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 86.884 V/m; Power Drift = -0.16 dB

Motorola Fast SAR: SAR(1 g) = 6.98 mW/g; SAR(10 g) = 5.21 mW/g

Maximum value of SAR (interpolated) = 7.316 mW/g

Below 3 GHz-Rev.4e/Face Scan/2-Volume Scan 2D (41x41x1): Measurement grid: dx=7.5mm,

dy=7.5mm, dz=1mm

Reference Value = 86.884 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 6.91 mW/g; SAR(10 g) = 5.15 mW/g

Maximum value of SAR (interpolated) = 7.236 mW/g

Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 86.884 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 8.926 W/kg

SAR(1 g) = 6.87 mW/g; SAR(10 g) = 5.21 mW/g

Maximum value of SAR (measured) = 7.195 mW/g

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

dz=10mm

Maximum value of SAR (measured) = 7.168 mW/g

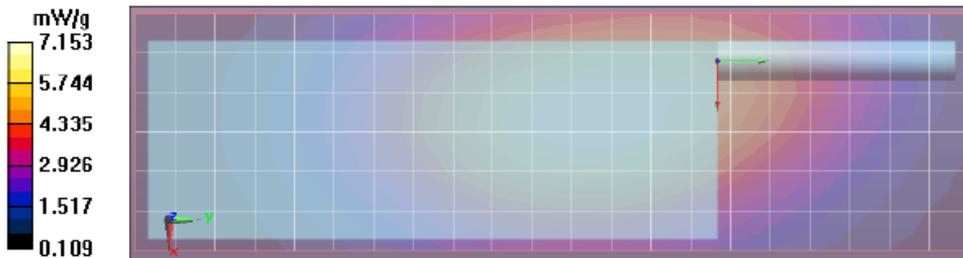


Table 13
Face - Highest SAR Configuration Result (Outside FCC Part 90)

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/2/2011 6:13:20 PM, Date/Time: 12/2/2011 6:30:22 PM, Date/Time: 12/2/2011 6:33:24 PM,
Date/Time: 12/2/2011 6:41:08 PM

Robot# / Run#: DASY5-FL-1 / CM-Face-111202-11
Phantom# / Tissue Temp.: OVAL1108 / 21.4 (C)
DUT Model# / Serial#: H97TGD9PW1AN (MNUT1015A) / CAI1004W9P
Antenna / TX Freq.: FAF5260A / 520.0000 (MHz)
Battery: NNTN7034A
Carry Acc. / Cable Acc.: None / None
Start Power: 5.59 (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: 7.64 mW/g (1g); 5.68 mW/g (10g)

Comments: Back facing phantom. Zoom scan.

Probe: ES3DV3 - SN3163, Calibrated: 4/13/2011, ConvF(6.53, 6.53, 6.53)
Electronics: DAE4 Sn1231, Calibrated: 9/21/2011

Duty Cycle: 1:1, Medium parameters used: $f = 520$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.9$; $\rho = 1000$ kg/m³

Below 3 GHz-Rev.4e/Face Scan/1-Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 82.309 V/m; Power Drift = -0.19 dB

Motorola Fast SAR: SAR(1 g) = 8.19 mW/g; SAR(10 g) = 6.06 mW/g

Maximum value of SAR (interpolated) = 8.603 mW/g

Below 3 GHz-Rev.4e/Face Scan/2-Volume Scan 2D (41x41x1): Measurement grid: dx=7.5mm, dy=7.5mm, dz=1mm

Reference Value = 82.309 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = **Not Specified** W/kg

Motorola Fast SAR: SAR(1 g) = 7.92 mW/g; SAR(10 g) = 5.86 mW/g

Maximum value of SAR (interpolated) = 8.307 mW/g

Below 3 GHz-Rev.4e/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 82.309 V/m; Power Drift = -0.70 dB

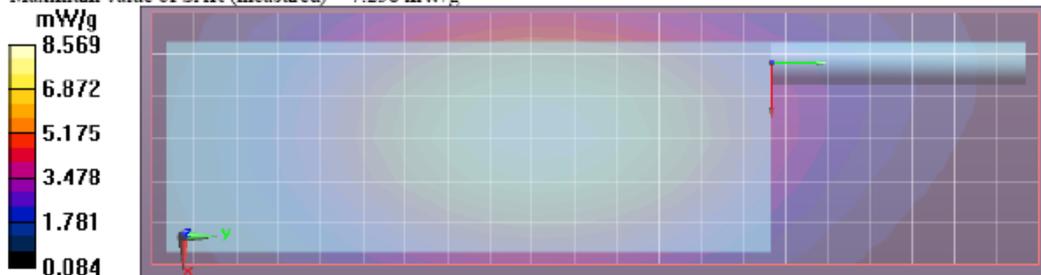
Peak SAR (extrapolated) = 10.116 W/kg

SAR(1 g) = 7.64 mW/g; SAR(10 g) = 5.68 mW/g

Maximum value of SAR (measured) = 8.005 mW/g

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

Maximum value of SAR (measured) = 7.258 mW/g



520MHz data is not applicable for demonstrating FCC compliance

Appendix F

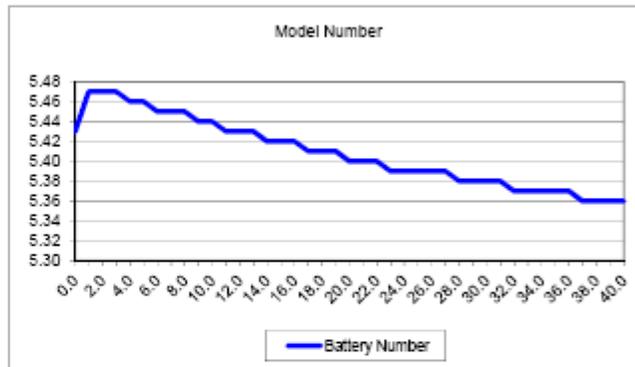
DUT Supplementary Data (Power slump)

Model #H97TGD9PW1AN (MNUT1015A)
Serial # CAI1004W9P

Battery	NNTN7034A	Transmit Mode	CW
Frequency	450MHz	Audio Accessory	PMLN5101A
Date	2/16/2012		

TX TIME **Measured Power**
(minutes) **Watts**

TX TIME (minutes)	Measured Power Watts	Battery Number
0.0	5.43	9:01
1.0	5.47	9:02
2.0	5.47	9:03
3.0	5.47	9:04
4.0	5.46	9:05
5.0	5.46	9:06
6.0	5.45	9:07
7.0	5.45	9:08
8.0	5.45	9:09
9.0	5.44	9:10
10.0	5.44	9:11
11.0	5.43	9:12
12.0	5.43	9:13
13.0	5.43	9:14
14.0	5.42	9:15
15.0	5.42	9:16
16.0	5.42	9:17
17.0	5.41	9:18
18.0	5.41	9:19
19.0	5.41	9:20
20.0	5.40	9:21
21.0	5.40	9:22
22.0	5.40	9:23
23.0	5.39	9:24
24.0	5.39	9:25
25.0	5.39	9:26
26.0	5.39	9:27
27.0	5.39	9:28
28.0	5.38	9:29
29.0	5.38	9:30
30.0	5.38	9:31
31.0	5.38	9:32
32.0	5.37	9:33
33.0	5.37	9:34
34.0	5.37	9:35
35.0	5.37	9:36
36.0	5.37	9:37
37.0	5.38	9:38
38.0	5.38	9:39
39.0	5.38	9:40
40.0	5.38	



Appendix G DUT Test Position Photos

Body

DUT w/ antenna FAF5260A with offered battery NNTN7034A and body worn accessory PMLN5325B against the phantom with audio cable PMLN5101A and carry strap NTN5243A attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
FAF5260A	0	37	47

Face

DUT w/ back side separated 2.5cm from phantom with antenna FAF5260A and battery NNTN7034A



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
FAF5260A	31	41	45

**Appendix H
Antenna accessory Photo**



New offered antenna FAF5260A

For photos of other previously approved accessories please refer to initial filing report.