



MOTOROLA



TESTING CERT # 2518.01

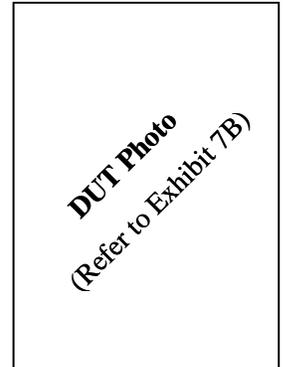
FCC ID: AZ489FT4886

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 3 of 3

Enterprise Mobility Solutions
EME Test Laboratory
 8000 West Sunrise Blvd
 Fort Lauderdale, FL. 33322.

Date of Report: 10/16/09
Report Revision: 0
Report ID: SAR rpt_H97TGD9PW1AN (WITH QA00570AA AND QA00575AA)_Rev O_091016_SR7715

Responsible Engineer: Stephen C. Whalen (Principal Staff Eng.)
Report Author: Stephen C. Whalen (Principal Staff Eng.)
Date/s Tested: 09/16/09-09/22/09, 9/24/09-9/26/09, 9/30/09, 10/07/09, 10/08/09, 10/12/09, 10/14/09
Manufacturer/Location: Penang
Sector/Group/Div.: EMS
Date submitted for test: 09/21/09
DUT Description: 380-470 MHz 1-5W, 136-174 MHz 1-6W, 6.25 kHz / 12.5 kHz / 25 kHz, Basic Model W/GPS. Capable of digital and analog FM transmission. Also capable of TDMA transmission
Test TX mode(s): CW
Max. Power output: 5.7W (UHF1), 6.6W (VHF)
Nominal Power: 5.0W (UHF1), 6.0W (VHF)
Tx Frequency Bands: 380-470 MHz (UHF1) & 136-174 MHz (VHF)
Signaling type: FM and TDMA
Model(s) Tested: H97TGD9PW1AN (WITH QA00570AA AND QA00575AA)
Model(s) Certified: H97TGD9PW1AN (WITH QA00570AA AND QA00575AA)
Serial Number(s): Q0FKL039
Classification: Occupational/Controlled
Rule Part(s): 90 (406.1-470MHz, 150.8-173.4MHz)



Max. Calc. : 1-g Avg. SAR: 7.27 W/kg (Body); 10-g Avg. SAR: 4.97 W/kg (Body)
Max. Calc. : 1-g Avg. SAR: 4.21 W/kg (Face); 10-g Avg. SAR: 3.16 W/kg (Face)

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 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.

Signature on file
Deanna Zakharia
 EMS EME Lab Senior Resource Manager,
 Laboratory Director

Approval Date: 10/16/09

Certification Date:

Certification No.:

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

Shortened Scan Result
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 9/26/2009 3:25:31 PM

Robot# / Run#: DASY4-FL-1 / HvH-Ab-090926-15
Phantom# / Tissue Temp.: OVAL1016 / 19.3 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
Start Power: 5.88 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 14.32 mW/g (1g); 9.80 mW/g (10g)

Comments: Short scan.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)

Electronics: DAE4 Sn850, Calibrated: 2/10/2009

Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; sigma = 0.92 mho/m; epsilon = 56.4; rho = 1000 kg/m3

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

Reference Value = 129.2 V/m; Power Drift = -0.0317 dB

Peak SAR (extrapolated) = 21.5 W/kg

SAR(1 g) = 14.2 mW/g; SAR(10 g) = 9.75 mW/g

Maximum value of SAR (measured) = 15.0 mW/g

Ab Scan/Area Scan (61x271x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 108.8 V/m; Power Drift = -0.150 dB

Motorola Fast SAR: SAR(1 g) = 13.4 mW/g; SAR(10 g) = 9.61 mW/g

Maximum value of SAR (interpolated) = 14.4 mW/g

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

Maximum value of SAR (measured) = 15.3 mW/g

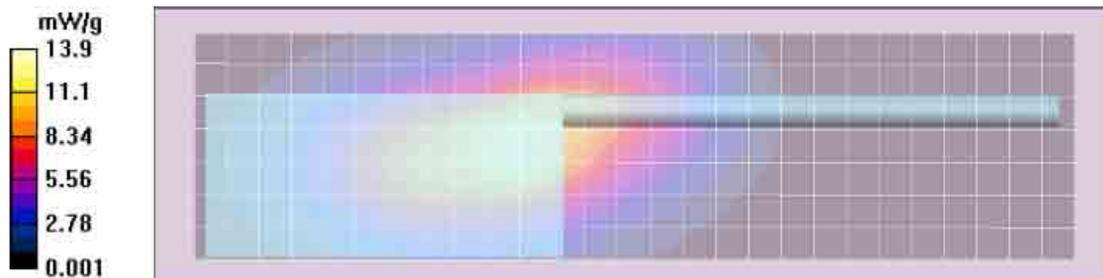
Shortened scan reflect highest SAR producing configuration; approximate run time 7 minutes.

Representative zoom scan run time was 28 minutes

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 7.21 mW/g; 10-g Avg. = 4.94 mW/g

Zoom scan max calculated SAR using SAR drift: 1-g Avg. = 7.27 mW/g; 10-g Avg. = 4.97 mW/g

(see part 1 of 3 section 13.1 Table 13 run # MeC-Ab-090918-06)



Body Highest SAR Configuration Result
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 9/19/2009 12:54:21 AM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090918-06
Phantom# / Tissue Temp.: OVAL1016 / 19.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
Start Power: 5.79 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 14.05 mW/g (1g); 9.61 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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

Reference Value = 102.6 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 13.8 mW/g; SAR(10 g) = 9.51 mW/g

Maximum value of SAR (measured) = 14.8 mW/g

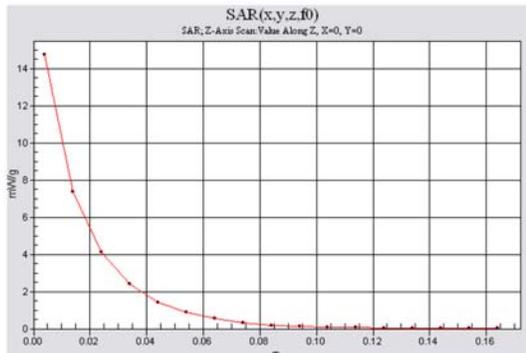
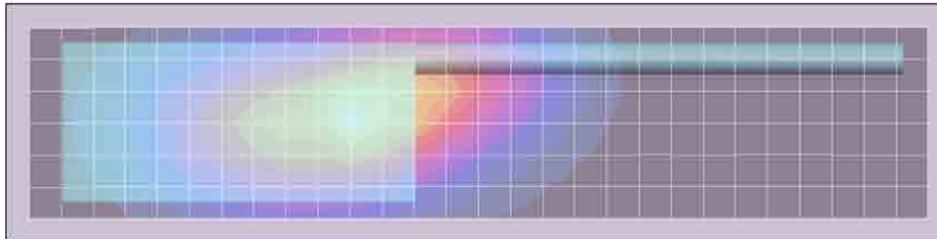
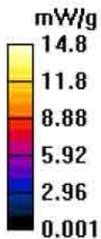
Ab Scan/Area Scan (61x281x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 102.6 V/m; Power Drift = -0.137 dB

Motorola Fast SAR: SAR(1 g) = 13.7 mW/g; SAR(10 g) = 9.74 mW/g

Maximum value of SAR (interpolated) = 14.8 mW/g

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



Face Highest SAR Configuration Result
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 9/20/2009 10:16:40 AM

Robot# / Run#: DASY4-FL-1 / HvH-Face-090920-08
Phantom# / Tissue Temp.: OVAL1011 / 20.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: None / None
Start Power: 5.85 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 8.25 mW/g (1g); 6.19 mW/g (10g)

Comments: Back of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(6.76, 6.76, 6.76)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; sigma = 0.83 mho/m; epsilon = 42.5; rho = 1000 kg/m3

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

Reference Value = 86.1 V/m; Power Drift = -0.0878 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 8.1 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (measured) = 8.48 mW/g

Face Scan/Area Scan (61x271x1): Measurement grid: dx=15mm, dy=15mm

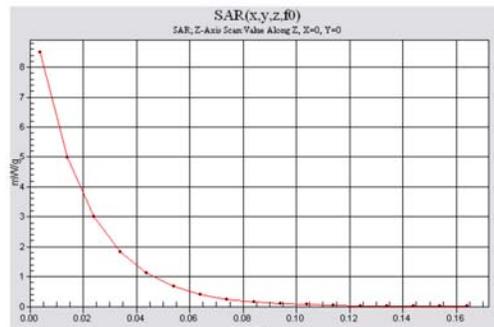
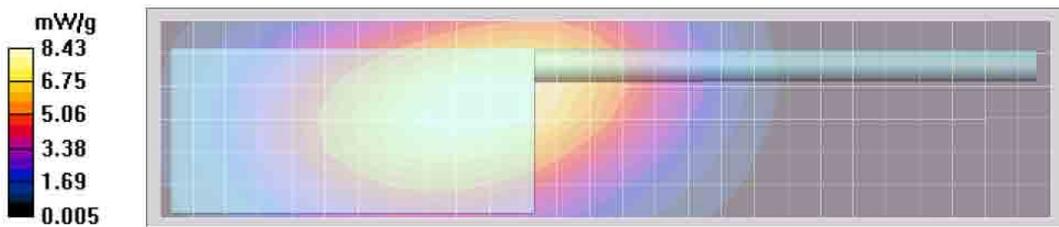
Reference Value = 86.1 V/m; Power Drift = -0.053 dB

Motorola Fast SAR: SAR(1 g) = 8.2 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (interpolated) = 8.59 mW/g

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

Maximum value of SAR (measured) = 8.50 mW/g



Appendix F
DUT Scans

Section 1.0

**UHF Assessment of the offered antenna PMAE4065A
(Section 13.1 Table 12)
Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 9/16/2009 2:44:40 PM**

Robot# / Run#: DASY4-FL-1 / HvH-Ab-090916-02
Phantom# / Tissue Temp.: OVAL1016 / 19.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA / Q0FKL039
Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
Start Power: 5.72 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 11.61 mW/g (1g); 8.002 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

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

Reference Value = 102.3 V/m; Power Drift = -0.237 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 11.4 mW/g; SAR(10 g) = 7.92 mW/g

Maximum value of SAR (measured) = 12.3 mW/g

Ab Scan/Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

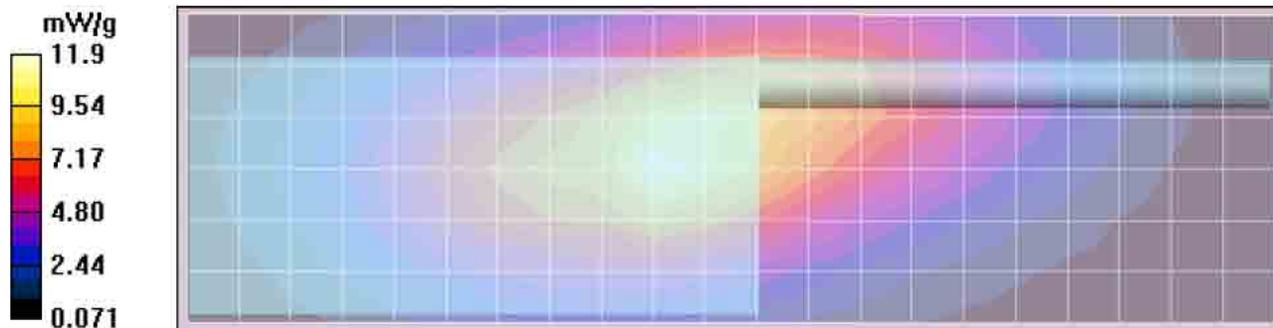
Reference Value = 102.3 V/m; Power Drift = -0.209 dB

Motorola Fast SAR: SAR(1 g) = 11.3 mW/g; SAR(10 g) = 8.14 mW/g

Maximum value of SAR (interpolated) = 12.2 mW/g

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

Maximum value of SAR (measured) = 12.2 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/16/2009 9:28:29 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090916-07
 Phantom# / Tissue Temp.: OVAL1016 / 19.9 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA / Q0FKL039
 Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: HLN6875A / PMMN4024A
 Start Power: 5.73 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.70 mW/g (1g); 3.06 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

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

Reference Value = 65.9 V/m; Power Drift = -0.197 dB

Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 6.58 mW/g; SAR(10 g) = 3.03 mW/g

Maximum value of SAR (measured) = 6.97 mW/g

Ab Scan/Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

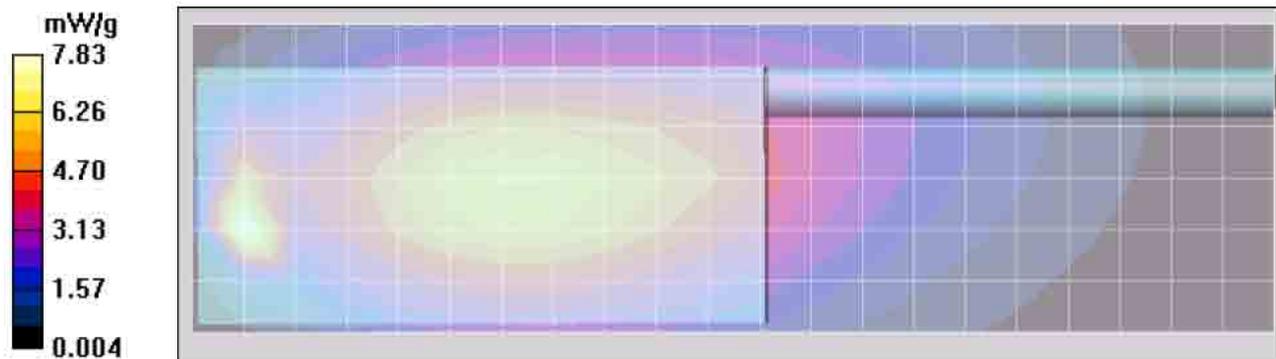
Reference Value = 65.9 V/m; Power Drift = -0.167 dB

Motorola Fast SAR: SAR(1 g) = 7.26 mW/g; SAR(10 g) = 4.54 mW/g

Maximum value of SAR (interpolated) = 10.0 mW/g

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

Maximum value of SAR (measured) = 7.83 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/17/2009 9:15:44 AM

Robot# / Run#: DASY4-FL-1 / HvH-Ab-090917-02
 Phantom# / Tissue Temp.: OVAL1016 / 20.3 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA / Q0FKL039
 Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 5.80 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 11.15 mW/g (1g); 7.73 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 422$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³

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

Reference Value = 102.5 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 11 mW/g; SAR(10 g) = 7.67 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 11.8 mW/g

Ab Scan/Area Scan (61x211x1): Measurement grid: dx=15mm, dy=15mm

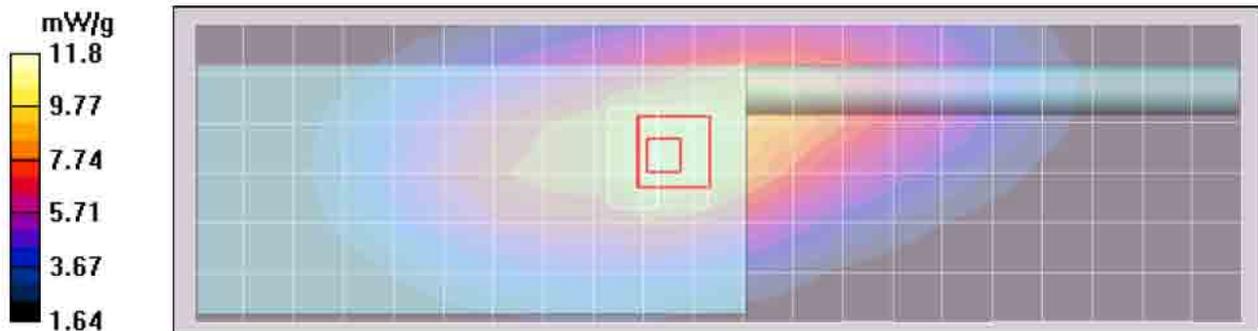
Reference Value = 102.5 V/m; Power Drift = -0.130 dB

Motorola Fast SAR: SAR(1 g) = 10.7 mW/g; SAR(10 g) = 7.82 mW/g

Maximum value of SAR (interpolated) = 11.4 mW/g

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

Maximum value of SAR (measured) = 11.8 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/26/2009 2:17:27 PM

Robot# / Run#: DASY4-FL-1 / HvH-Ab-090926-13
Phantom# / Tissue Temp.: OVAL1016 / 19.3 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: HLN6875A / RMN5058A
Start Power: 5.85 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 8.30 mW/g (1g); 3.15 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: $f = 422$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 56.4$; $\rho = 1000$ kg/m³

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

Reference Value = 65.5 V/m; Power Drift = -0.332 dB

Peak SAR (extrapolated) = 39.7 W/kg

SAR(1 g) = 8.23 mW/g; SAR(10 g) = 3.14 mW/g

Maximum value of SAR (measured) = 8.72 mW/g

Ab Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

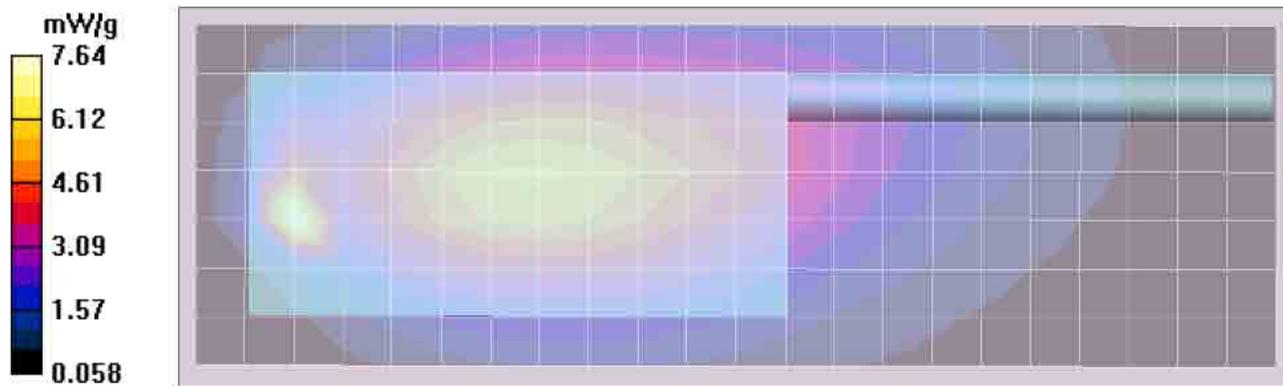
Reference Value = 65.5 V/m; Power Drift = -0.342 dB

Motorola Fast SAR: SAR(1 g) = 6.44 mW/g; SAR(10 g) = 4.13 mW/g

Maximum value of SAR (interpolated) = 8.53 mW/g

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

Maximum value of SAR (measured) = 9.54 mW/g



Section 2.0

UHF Assessment of the offered antenna PMAT4001A
(Section 13.1 Table 13)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/17/2009 6:31:28 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090917-14
Phantom# / Tissue Temp.: OVAL1016 / 20.1 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
Start Power: 5.74 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 13.98 mW/g (1g); 9.56 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 54.9$; $\rho = 1000$ kg/m³

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

Reference Value = 107.3 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 20.6 W/kg

SAR(1 g) = 13.8 mW/g; SAR(10 g) = 9.49 mW/g

Maximum value of SAR (measured) = 14.7 mW/g

Ab Scan/Area Scan (61x281x1): Measurement grid: dx=15mm, dy=15mm

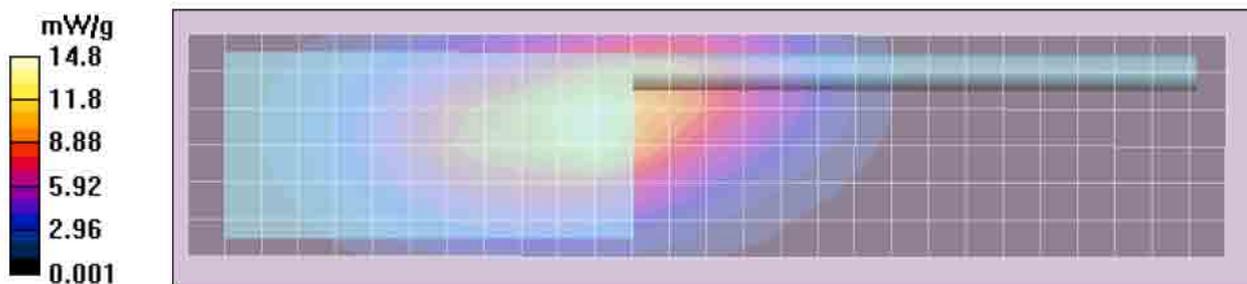
Reference Value = 107.3 V/m; Power Drift = -0.113 dB

Motorola Fast SAR: SAR(1 g) = 13.5 mW/g; SAR(10 g) = 9.76 mW/g

Maximum value of SAR (interpolated) = 14.4 mW/g

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

Maximum value of SAR (measured) = 14.8 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/17/2009 11:58:30 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090917-18
Phantom# / Tissue Temp.: OVAL1016 / 19.8 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 406.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: HLN6875A / PMMN4024A
Start Power: 5.78 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 8.00 mW/g (1g); 3.30 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; sigma = 0.91 mho/m; epsilon = 54.9; rho = 1000 kg/m3

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

Reference Value = 68.9 V/m; Power Drift = -0.231 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 7.89 mW/g; SAR(10 g) = 3.28 mW/g

Maximum value of SAR (measured) = 8.92 mW/g

Ab Scan/Area Scan (61x281x1): Measurement grid: dx=15mm, dy=15mm

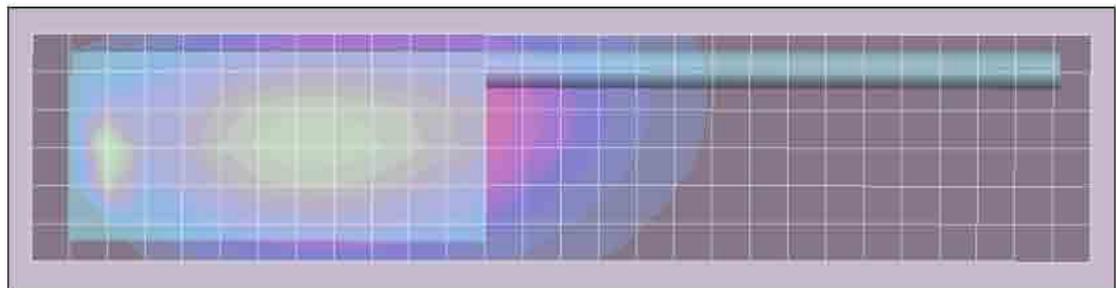
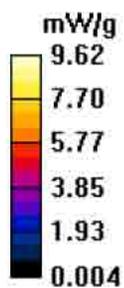
Reference Value = 68.9 V/m; Power Drift = -0.205 dB

Motorola Fast SAR: SAR(1 g) = 7.8 mW/g; SAR(10 g) = 5.08 mW/g

Maximum value of SAR (interpolated) = 10.2 mW/g

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

Maximum value of SAR (measured) = 9.62 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/19/2009 12:54:21 AM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090918-06
Phantom# / Tissue Temp.: OVAL1016 / 19.9 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
Start Power: 5.79 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 14.05 mW/g (1g); 9.61 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: $f = 422$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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

Reference Value = 102.6 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 13.8 mW/g; SAR(10 g) = 9.51 mW/g

Maximum value of SAR (measured) = 14.8 mW/g

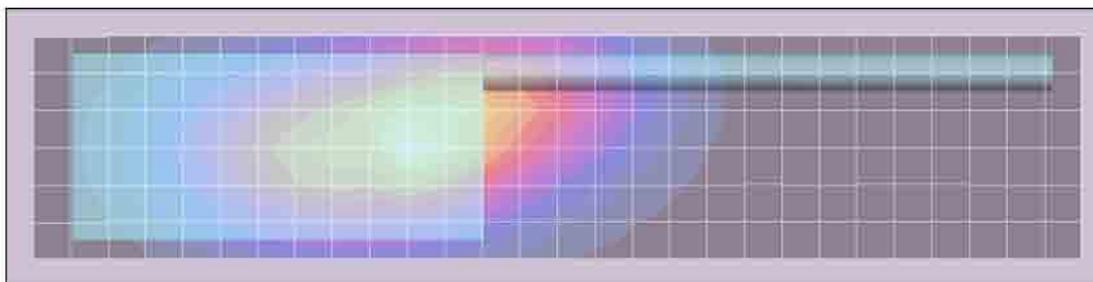
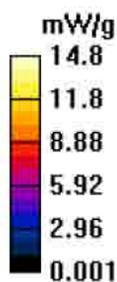
Ab Scan/Area Scan (61x281x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 102.6 V/m; Power Drift = -0.137 dB

Motorola Fast SAR: SAR(1 g) = 13.7 mW/g; SAR(10 g) = 9.74 mW/g

Maximum value of SAR (interpolated) = 14.8 mW/g

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



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/19/2009 11:34:08 AM

Robot# / Run#: DASY4-FL-1 / HvH-Ab-090919-04
Phantom# / Tissue Temp.: OVAL1016 / 22.2 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 406.1250 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: HLN6875A / RMN5058A
Start Power: 5.80 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 7.70 mW/g (1g); 3.13 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: $f = 422$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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

Reference Value = 69.7 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 7.52 mW/g; SAR(10 g) = 3.09 mW/g

Maximum value of SAR (measured) = 8.06 mW/g

Ab Scan/Area Scan (61x271x1): Measurement grid: dx=15mm, dy=15mm

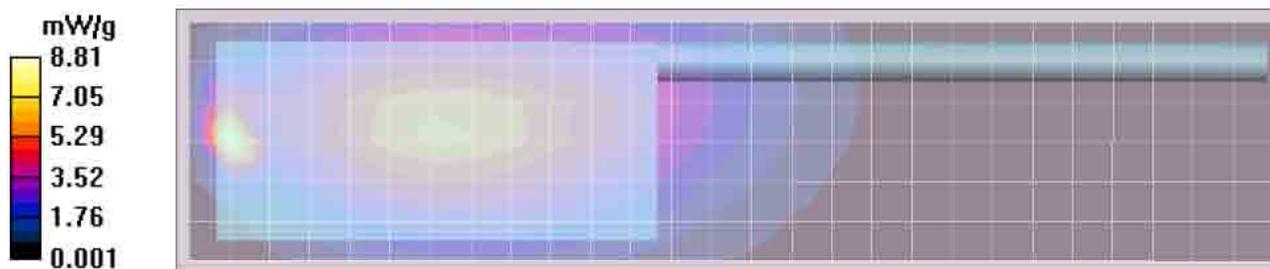
Reference Value = 69.7 V/m; Power Drift = -0.0819 dB

Motorola Fast SAR: SAR(1 g) = 7.51 mW/g; SAR(10 g) = 4.35 mW/g

Maximum value of SAR (interpolated) = 10.3 mW/g

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

Maximum value of SAR (measured) = 9.07 mW/g



Section 3.0

**UHF Assessment without offered body worn accessories at 2.5cm
(Section 13.1 Table 14)**

**Motorola Enterprise Mobility Solutions EME Laboratory
Date/Time: 10/8/2009 10:44:41 AM**

Robot# / Run#: DASY4-FL-1 / JsT-Ab-091008-05
 Phantom# / Tissue Temp.: OVAL1016 / 20.4 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / RMN5058A
 Start Power: 5.90 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.86 mW/g (1g); 5.19 mW/g (10g)

Comments: Back- Radio @ 2.5 cm; Tested with Area Scan Step Size set to 12mm.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.19, 7.19, 7.19)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 56$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 84.2 V/m; Power Drift = -0.315 dB

Peak SAR (extrapolated) = 9.08 W/kg

SAR(1 g) = 6.86 mW/g; SAR(10 g) = 5.19 mW/g

Maximum value of SAR (measured) = 7.13 mW/g

Ab Scan/Area Scan (91x331x1): Measurement grid: dx=12mm, dy=12mm

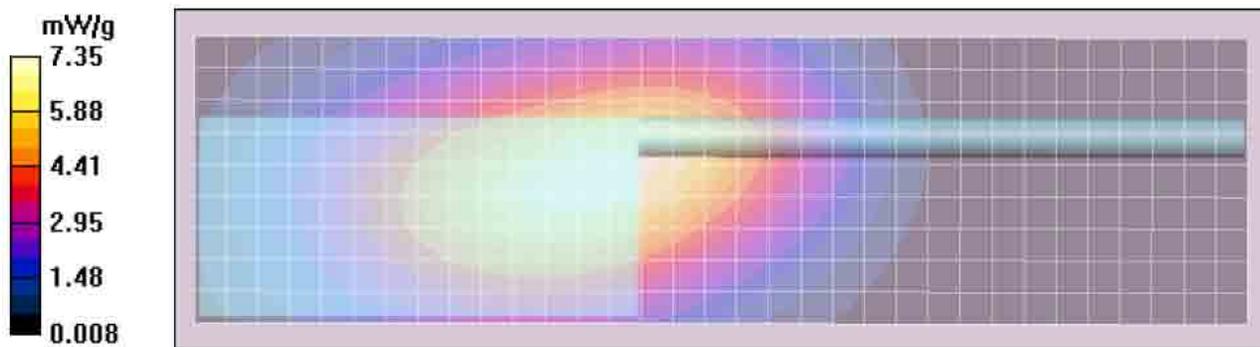
Reference Value = 84.2 V/m; Power Drift = -0.224 dB

Motorola Fast SAR: SAR(1 g) = 7.06 mW/g; SAR(10 g) = 5.26 mW/g

Maximum value of SAR (interpolated) = 7.42 mW/g

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

Maximum value of SAR (measured) = 7.12 mW/g



Section 4.0

**UHF Assessment at the face
(Section 13.1 Table 15)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/19/2009 9:29:47 PM

Robot# / Run#: DASY4-FL-1 / MeC-Face-090919-10
 Phantom# / Tissue Temp.: OVAL1011 / 21.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.77 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.59 mW/g (1g); 4.95 mW/g (10g)

Comments: Front of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(6.76, 6.76, 6.76)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: f = 422 MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.4$; $\rho = 1000$ kg/m³

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

Reference Value = 90.8 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 8.69 W/kg

SAR(1 g) = 6.56 mW/g; SAR(10 g) = 4.94 mW/g

Maximum value of SAR (measured) = 6.86 mW/g

Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

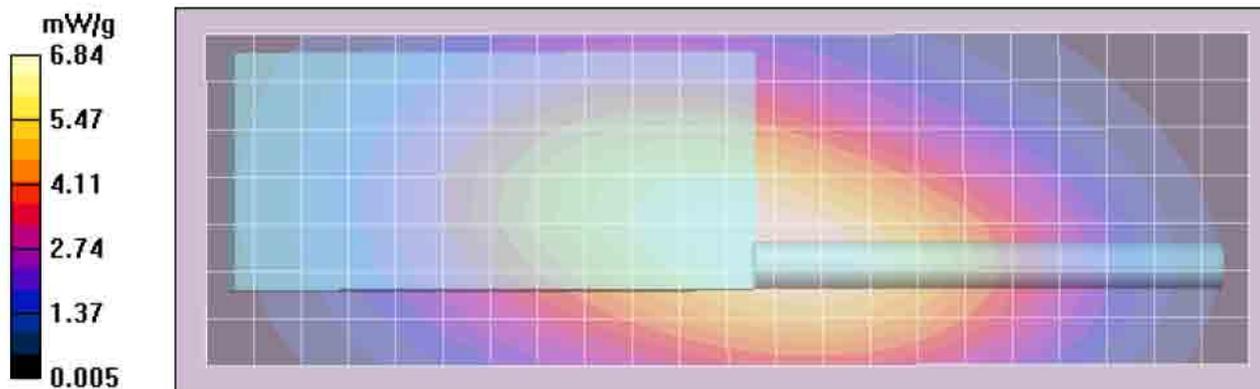
Reference Value = 90.8 V/m; Power Drift = -0.179 dB

Motorola Fast SAR: SAR(1 g) = 6.67 mW/g; SAR(10 g) = 4.99 mW/g

Maximum value of SAR (interpolated) = 6.99 mW/g

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

Maximum value of SAR (measured) = 6.84 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/20/2009 1:08:58 AM

Robot# / Run#: DASY4-FL-1 / MeC-Face-090919-15
 Phantom# / Tissue Temp.: OVAL1011 / 21.6 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAE4065A / 406.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.80 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.33 mW/g (1g); 4.79 mW/g (10g)

Comments: Back of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(6.76, 6.76, 6.76)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 422$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.4$; $\rho = 1000$ kg/m³

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

Reference Value = 85.2 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 8.25 W/kg

SAR(1 g) = 6.3 mW/g; SAR(10 g) = 4.78 mW/g

Maximum value of SAR (measured) = 6.58 mW/g

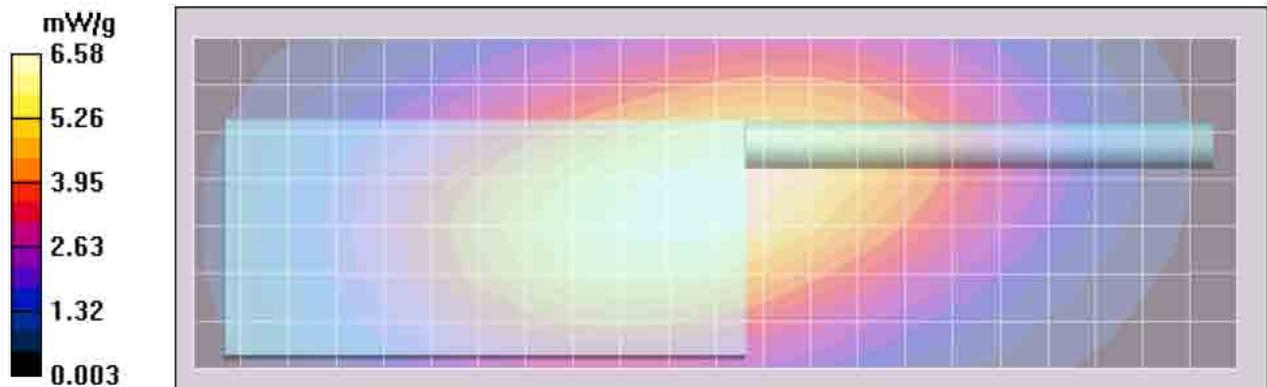
Face Scan/Area Scan (71x221x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 85.2 V/m; Power Drift = -0.173 dB

Motorola Fast SAR: SAR(1 g) = 6.37 mW/g; SAR(10 g) = 4.77 mW/g

Maximum value of SAR (interpolated) = 6.67 mW/g

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



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/20/2009 7:14:14 AM

Robot# / Run#: DASY4-FL-1 / HvH-Face-090920-03
 Phantom# / Tissue Temp.: OVAL1011 / 20.6 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.84 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.52 mW/g (1g); 4.93 mW/g (10g)

Comments: Front of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(6.76, 6.76, 6.76)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 422 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

Face Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 80.5 V/m; Power Drift = -0.0476 dB

Peak SAR (extrapolated) = 8.26 W/kg

SAR(1 g) = 6.4 mW/g; SAR(10 g) = 4.89 mW/g

Maximum value of SAR (measured) = 6.69 mW/g

Face Scan/Area Scan (61x271x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

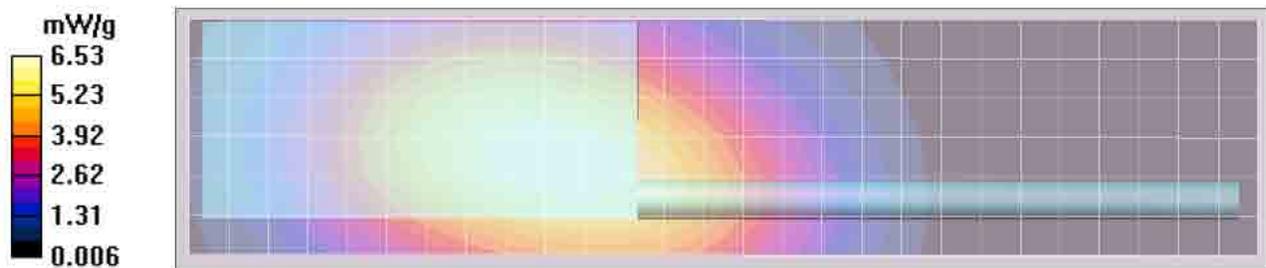
Reference Value = 80.5 V/m; Power Drift = -0.00692 dB

Motorola Fast SAR: SAR(1 g) = 6.33 mW/g; SAR(10 g) = 4.74 mW/g

Maximum value of SAR (interpolated) = 6.63 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$

Maximum value of SAR (measured) = 6.68 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/20/2009 10:16:40 AM

Robot# / Run#: DASY4-FL-1 / HvH-Face-090920-08
 Phantom# / Tissue Temp.: OVAL1011 / 20.8 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 422.1250 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 5.85 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 8.25 mW/g (1g); 6.19 mW/g (10g)

Comments: Back of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(6.76, 6.76, 6.76)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 422 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

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

Reference Value = 86.1 V/m; Power Drift = -0.0878 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 8.1 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (measured) = 8.48 mW/g

Face Scan/Area Scan (61x271x1): Measurement grid: dx=15mm, dy=15mm

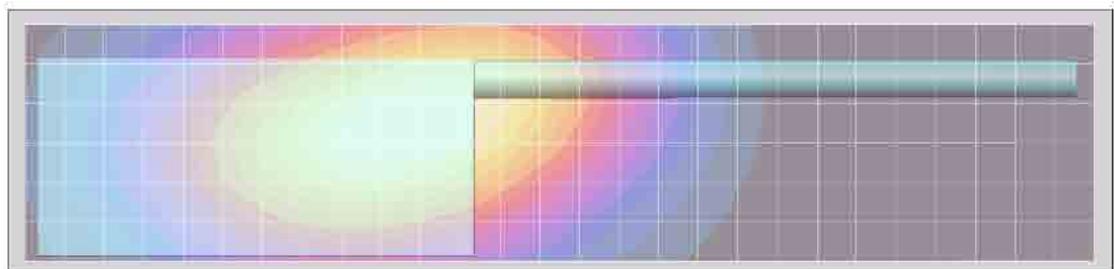
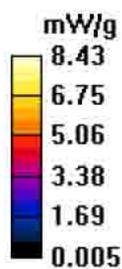
Reference Value = 86.1 V/m; Power Drift = -0.053 dB

Motorola Fast SAR: SAR(1 g) = 8.2 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (interpolated) = 8.59 mW/g

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

Maximum value of SAR (measured) = 8.50 mW/g



Section 5.0

VHF Assessment of the offered antenna PMAT4001A
(Section 13.2 Table 16)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/21/2009 6:37:24 PM

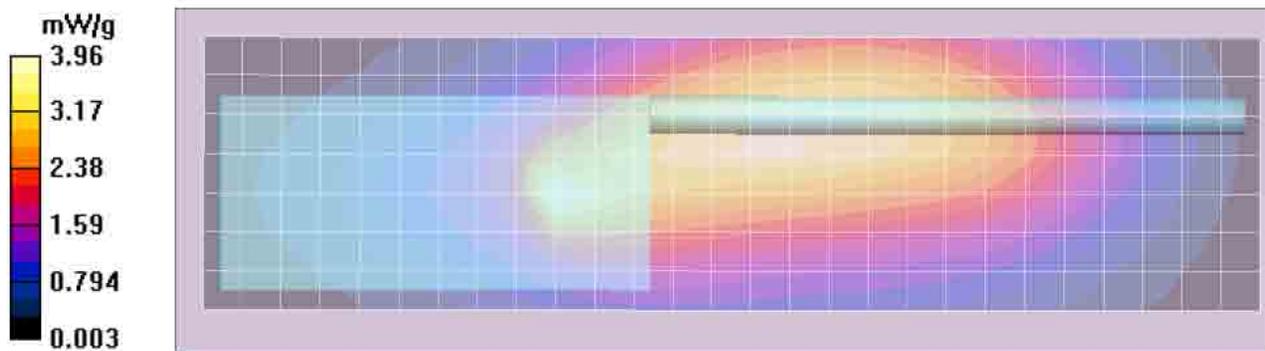
Robot# / Run#: DASY4-FL-1 / MeC-Ab-090921-08
 Phantom# / Tissue Temp.: OVAL1019 / 20.0 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 162.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B / PMMN4024A
 Start Power: 6.81 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 3.90 mW/g (1g); 2.40 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.9, 7.9, 7.9)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 156$ MHz; $\sigma = 0.81$ mho/m; $\epsilon_r = 61.5$; $\rho = 1000$ kg/m³
Ab Scan/5x5x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 71.7 V/m; Power Drift = -0.766 dB
 Peak SAR (extrapolated) = 8.13 W/kg
SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2.4 mW/g
 Maximum value of SAR (measured) = 4.05 mW/g
Ab Scan/Area Scan (71x271x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 71.7 V/m; Power Drift = -0.600 dB
Motorola Fast SAR: SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.8 mW/g
 Maximum value of SAR (interpolated) = 4.36 mW/g
Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 3.96 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/22/2009 2:31:32 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090922-02
 Phantom# / Tissue Temp.: OVAL1019 / 20.4 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 162.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: HLN6875A / PMMN4024A
 Start Power: 6.79 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 6.32 mW/g (1g); 2.27 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.9, 7.9, 7.9)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 156$ MHz; $\sigma = 0.8$ mho/m; $\epsilon_r = 61.4$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.0 V/m; Power Drift = 0.0192 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 6.31 mW/g; SAR(10 g) = 2.27 mW/g

Maximum value of SAR (measured) = 6.06 mW/g

Ab Scan/Area Scan (71x271x1): Measurement grid: dx=15mm, dy=15mm

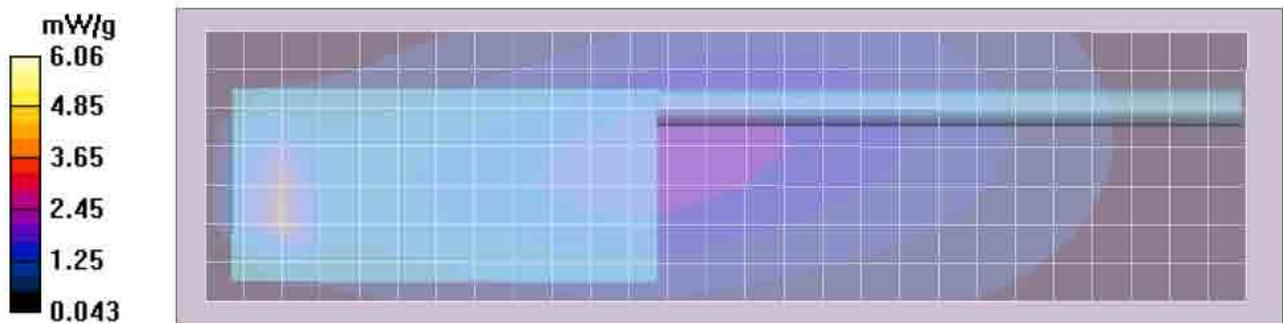
Reference Value = 45.0 V/m; Power Drift = 0.0351 dB

Motorola Fast SAR: SAR(1 g) = 3.67 mW/g; SAR(10 g) = 2.31 mW/g

Maximum value of SAR (interpolated) = 4.47 mW/g

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

Maximum value of SAR (measured) = 7.00 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/22/2009 6:32:11 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-090922-07
 Phantom# / Tissue Temp.: OVAL1019 / 20.0 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 162.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: NTN8266B / RMN5058A
 Start Power: 6.77 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 5.87 mW/g (1g); 3.44 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.9, 7.9, 7.9)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: f = 156 MHz; $\sigma = 0.8$ mho/m; $\epsilon_r = 61.4$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 76.3 V/m; Power Drift = -0.456 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 5.86 mW/g; SAR(10 g) = 3.44 mW/g

Maximum value of SAR (measured) = 5.97 mW/g

Ab Scan/Area Scan (71x271x1): Measurement grid: dx=15mm, dy=15mm

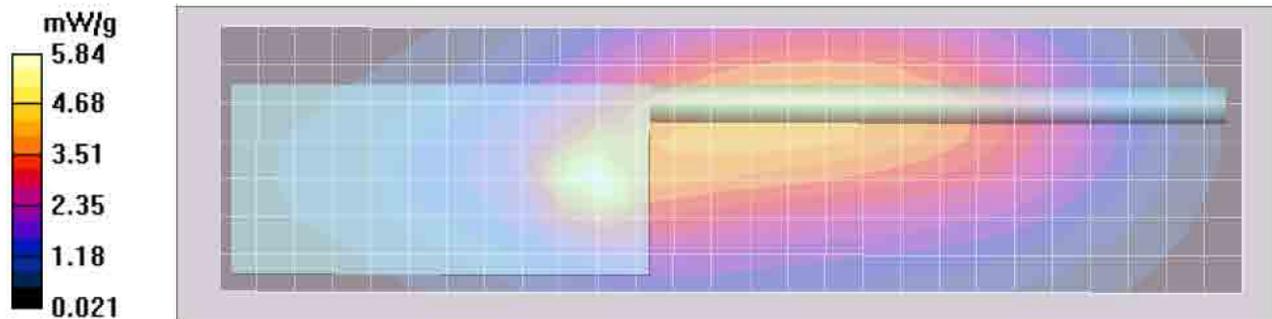
Reference Value = 76.3 V/m; Power Drift = -0.294 dB

Motorola Fast SAR: SAR(1 g) = 5.55 mW/g; SAR(10 g) = 3.77 mW/g

Maximum value of SAR (interpolated) = 6.13 mW/g

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

Maximum value of SAR (measured) = 5.84 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 10/14/2009 2:51:37 PM

Robot# / Run#: DASY4-FL-1 / ErC-Ab-091014-04
Phantom# / Tissue Temp.: OVAL1018 / 20.5 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 162.0125 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: HLN6875A / RMN5058A
Start Power: 6.90 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 10.11 mW/g (1g); 3.28 mW/g (10g)

Comments:

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.9, 7.9, 7.9)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 156 MHz; sigma = 0.8 mho/m; epsilon = 59.6; rho = 1000 kg/m3

Ab Scan/5x5x7 Zoom Scan (11x11x7)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=5mm

Reference Value = 84.7 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 64.5 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 3.28 mW/g

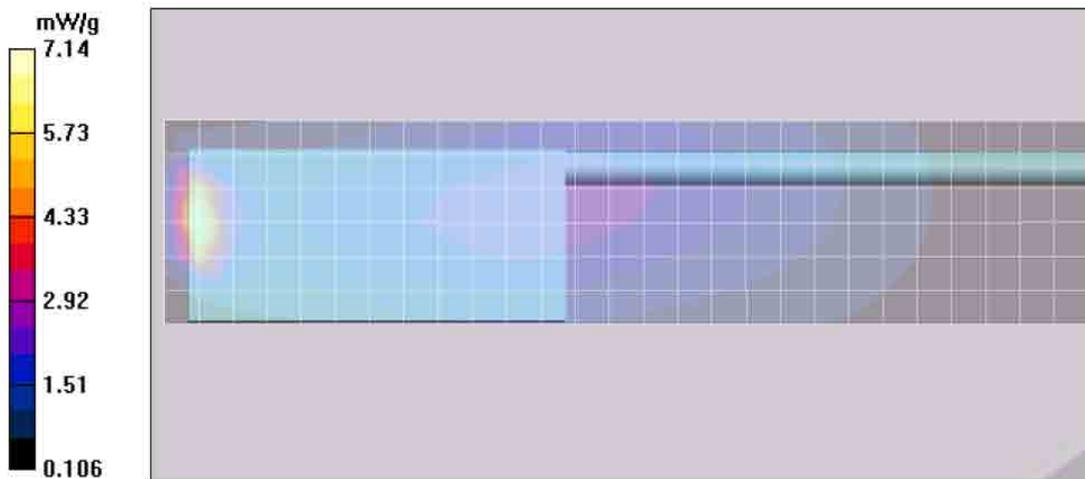
Maximum value of SAR (measured) = 9.94 mW/g

Ab Scan/Full Area Scan (7x28x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.14 mW/g

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

Maximum value of SAR (measured) = 9.96 mW/g



Section 6.0

**VHF Assessment without body worn accessories at 2.5cm
(Section 13.2 Table 17)**

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 10/14/2009 7:00:02 PM

Robot# / Run#: DASY4-FL-1 / MeC-Ab-091014-07
 Phantom# / Tissue Temp.: OVAL1018 / 20.3 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 162.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / RMN5058A
 Start Power: 6.85 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 4.53 mW/g (1g); 3.44 mW/g (10g)

Comments: Back of radio antenna @ 2.5 cm. from phantom.
 Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(7.9, 7.9, 7.9)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: f = 156 MHz; $\sigma = 0.80$ mho/m; $\epsilon_r = 59.6$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 82.6 V/m; Power Drift = -0.740 dB

Peak SAR (extrapolated) = 6.33 W/kg

SAR(1 g) = 4.52 mW/g; SAR(10 g) = 3.44 mW/g

Maximum value of SAR (measured) = 4.76 mW/g

Ab Scan/Area Scan (71x271x1): Measurement grid: dx=15mm, dy=15mm

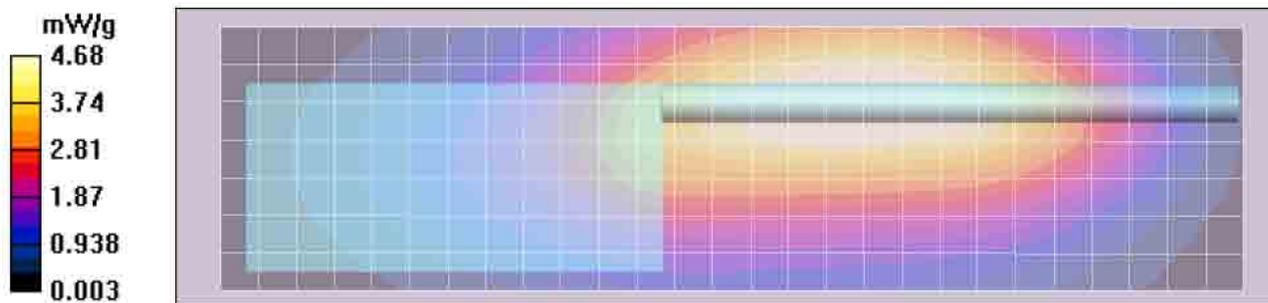
Reference Value = 82.6 V/m; Power Drift = -0.567 dB

Motorola Fast SAR: SAR(1 g) = 4.72 mW/g; SAR(10 g) = 3.57 mW/g

Maximum value of SAR (interpolated) = 5.00 mW/g

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

Maximum value of SAR (measured) = 4.68 mW/g



Section 7.0

VHF Assessment at the face
(Section 13.2 Table 18)

Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/20/2009 5:25:48 PM

Robot# / Run#: DASY4-FL-1 / MeC-Face-090920-17
Phantom# / Tissue Temp.: OVAL1020 / 20.2 (C)
DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
Antenna / TX Freq.: PMAT4001A / 168.0125 (MHz)
Battery: NNTN7038A
Carry Acc. / Cable Acc.: None / None
Start Power: 6.85 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 3.18 mW/g (1g); 2.46 mW/g (10g)

Comments: Front of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(8.2, 8.2, 8.2)
Electronics: DAE4 Sn850, Calibrated: 2/10/2009
Duty Cycle: 1:1, Medium parameters used: f = 168 MHz; $\sigma = 0.78$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

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

Reference Value = 64.7 V/m; Power Drift = -0.398 dB

Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 3.18 mW/g; SAR(10 g) = 2.46 mW/g

Maximum value of SAR (measured) = 3.29 mW/g

Face Scan/Area Scan (61x271x1): Measurement grid: dx=15mm, dy=15mm

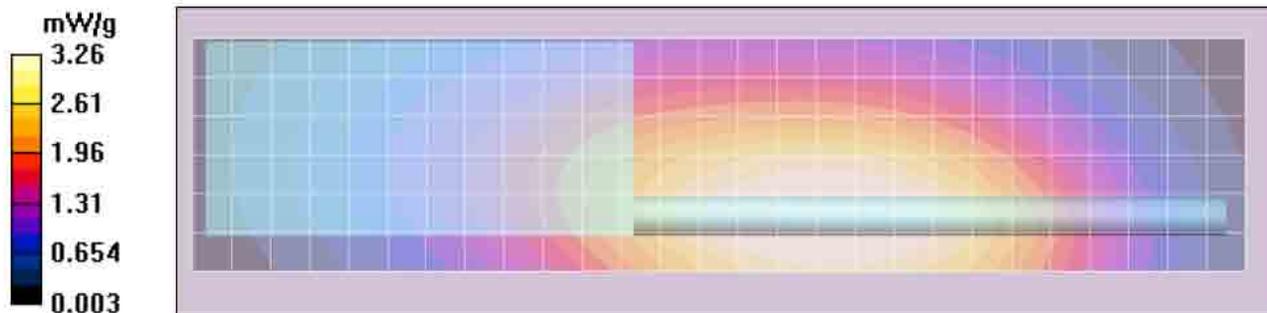
Reference Value = 64.7 V/m; Power Drift = -0.342 dB

Motorola Fast SAR: SAR(1 g) = 3.31 mW/g; SAR(10 g) = 2.53 mW/g

Maximum value of SAR (interpolated) = 3.46 mW/g

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

Maximum value of SAR (measured) = 3.26 mW/g



Motorola Enterprise Mobility Solutions EME Laboratory

Date/Time: 9/21/2009 1:39:56 PM

Robot# / Run#: DASY4-FL-1 / HvH-Face-090921-04
 Phantom# / Tissue Temp.: OVAL1020 / 20.7 (C)
 DUT Model# / Serial#: H97TGD9PW1AN (with QA00570AA and QA00575AA) / Q0FKL039
 Antenna / TX Freq.: PMAT4001A / 168.0125 (MHz)
 Battery: NNTN7038A
 Carry Acc. / Cable Acc.: None / None
 Start Power: 6.84 (W)

Note: The measured SAR results, when applicable, are scaled according to FCC KDB648474. These scaled SAR results are shown below as Calculated.

Calculated: 3.25 mW/g (1g); 2.51 mW/g (10g)

Comments: Back of DUT.

Probe: ES3DV2 - SN3007, Calibrated: 3/12/2009, ConvF(8.2, 8.2, 8.2)
 Electronics: DAE4 Sn850, Calibrated: 2/10/2009
 Duty Cycle: 1:1, Medium parameters used: $f = 168$ MHz; $\sigma = 0.77$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

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

Reference Value = 66.5 V/m; Power Drift = -0.395 dB

Peak SAR (extrapolated) = 4.43 W/kg

SAR(1 g) = 3.25 mW/g; SAR(10 g) = 2.51 mW/g

Maximum value of SAR (measured) = 3.38 mW/g

Face Scan/Area Scan (71x271x1): Measurement grid: dx=15mm, dy=15mm

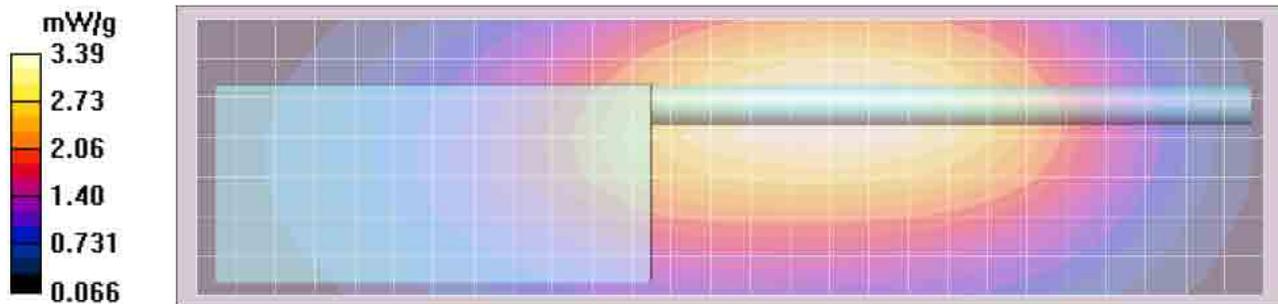
Reference Value = 66.5 V/m; Power Drift = -0.332 dB

Motorola Fast SAR: SAR(1 g) = 3.29 mW/g; SAR(10 g) = 2.51 mW/g

Maximum value of SAR (interpolated) = 3.43 mW/g

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

Maximum value of SAR (measured) = 3.36 mW/g



APPENDIX G
DUT Supplementary Data (Power slump)

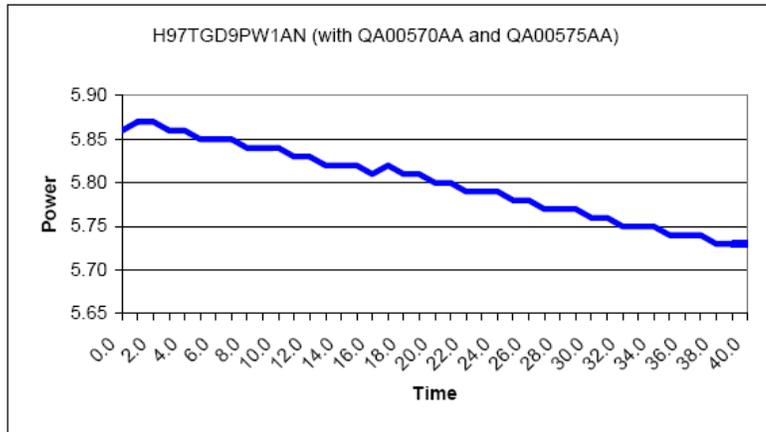
**Model # H97TGD9PW1AN (with QA00570AA and QA00575AA)
Serial # Q0FKL039**

Battery NNTN7038A Short
Frequency 422.1250 MHz
Date 10/13/2009

Transmit Mode CW
Audio Accessory RMN5058A

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

0.0	5.86
1.0	5.87
2.0	5.87
3.0	5.86
4.0	5.86
5.0	5.85
6.0	5.85
7.0	5.85
8.0	5.84
9.0	5.84
10.0	5.84
11.0	5.83
12.0	5.83
13.0	5.82
14.0	5.82
15.0	5.82
16.0	5.81
17.0	5.82
18.0	5.81
19.0	5.81
20.0	5.80
21.0	5.80
22.0	5.79
23.0	5.79
24.0	5.79
25.0	5.78
26.0	5.78
27.0	5.77
28.0	5.77
29.0	5.77
30.0	5.76
31.0	5.76
32.0	5.75
33.0	5.75
34.0	5.75
35.0	5.74
36.0	5.74
37.0	5.74
38.0	5.73
39.0	5.73
40.0	5.73



Appendix H
DUT Test Position Photos

Photos available in Exhibit 7B

Appendix I
DUT and Body worn Accessory Photos

Photos available in Exhibit 7B