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: 07/02/2015
Report Revision: B

Responsible Engineer:	Jessica Zada (EME Engineer)
Report Author:	Jessica Zada (EME Engineer)
Date/s Tested:	5/20/2015-5/21/2015
Manufacturer/Location:	Motorola Solutions Inc., Penang
Sector/Group/Div.:	Business Light
Date submitted for test:	05/14/2015
DUT Description:	CLS1410 Black; 450-470 MHz at 1.0W
Test TX mode(s):	CW (PTT)
Max. Power output:	1.0 W for 450-470 MHz
Nominal Power:	1.0 W for 450-470 MHz
Tx Frequency Bands:	450-470 MHz
Signaling type:	FM
Model(s) Tested:	HCUE1081F (CU1410BKV4BA)
Model(s) Certified:	HCUE1081F (CU1410BKV4BA), HCUE1082F (CU1413BKV4BA)
Serial Number(s):	134TQA0248, 134TQA0327
Classification:	Occupational/Controlled
FCC ID:	AZ489FT4926; 450-470 MHz
IC:	109U-89FT4926

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 OET Bulletin 65. 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 4.0 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

Digitally signed by Deanna Zakharia
DN: cn=Deanna Zakharia, o=Motorola Solutions, ou=Regulatory Compliance Lab, email=edc015@motorolasolutions.com, c=US
Date: 2015.07.02 15:46:42 -04'00'

Deanna Zakharia
EMS EME Lab Senior Resource Manager,
Laboratory Director
Approval Date: 7/2/2015

Certification Date: 6/2/2015

Certification No.: L1150534

Appendix D
System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/20/2015 9:18:23 AMDate/Time: 5/20/2015 9:22:47 AMDate/Time: 5/20/2015 9:29:53 AM

Robot#: DASY4-FL-4	Run#: AvG-SYSP-450B-150520-01
Dipole Model#	D450V3
Phantom#	OVAL1021
Tissue Temp:	21.6 (C)
Serial#:	1075
Test Freq:	450 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.022 dB
Adjusted SAR (1W):	4.408 mW/g (1g)

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

Reported SAR: 4.408 mW/g (1g); 2.944 mW/g (10g)

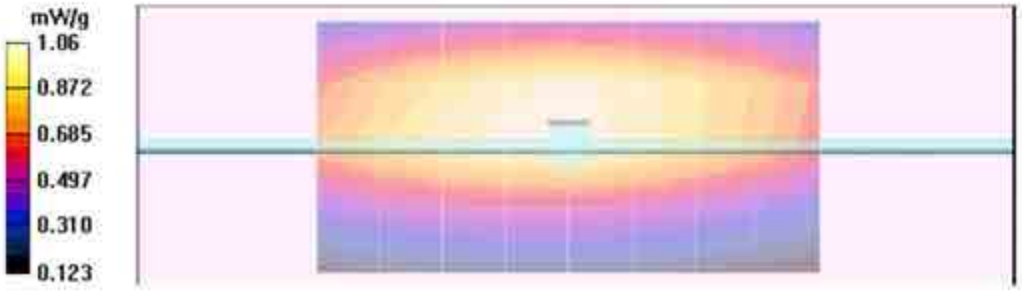
Comments:

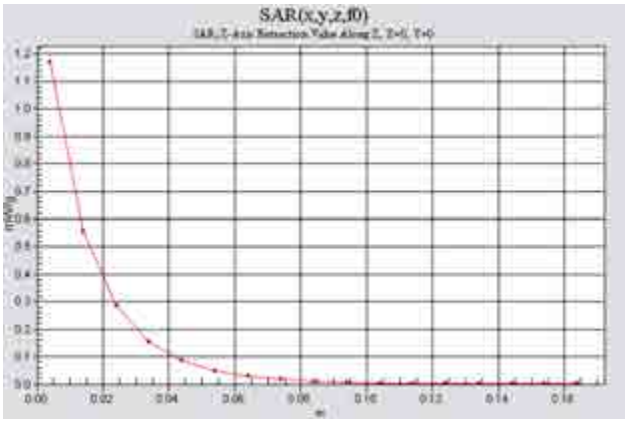
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz: σ = 0.92 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, Calibrated: 3/24/2015, Frequency: 450 MHz, ConvF(7.08, 7.08, 7.08)
Electronics: DAE4 Sn1231, Calibrated: 3/20/2015

System Performance Check/Dipole Area Scan 2 (41x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 36.0 V/m; Power Drift = -0.00 dB
Motorola Fast SAR: SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.774 mW/g
Maximum value of SAR (interpolated) = 1.15 mW/g

System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 36.0 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.63 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.731 mW/g
Maximum value of SAR (measured) = 1.17 mW/g

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





Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/21/2015 11:23:02 AMDate/Time: 5/21/2015 11:27:27 AMDate/Time: 5/21/2015 11:34:35 AM

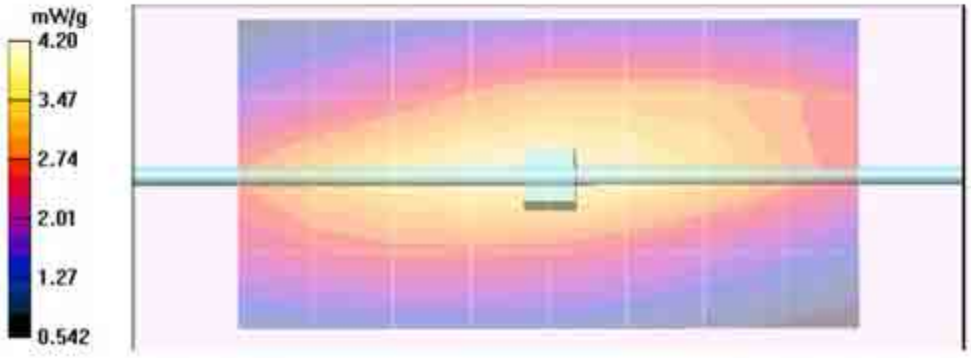
Robot#: DASY4-FL-4 | Run#:	AvG-SYSP-450H-150521-02
Dipole Model#	D450V3
Phantom#:	OVAL1022
Tissue Temp:	21.6 (C)
Serial#:	1075
Test Freq:	450 (MHz)
Start Power:	870 (mW)
Rotation (1D):	0.03 dB
Adjusted SAR (1W):	4.54 mW/g (1g)

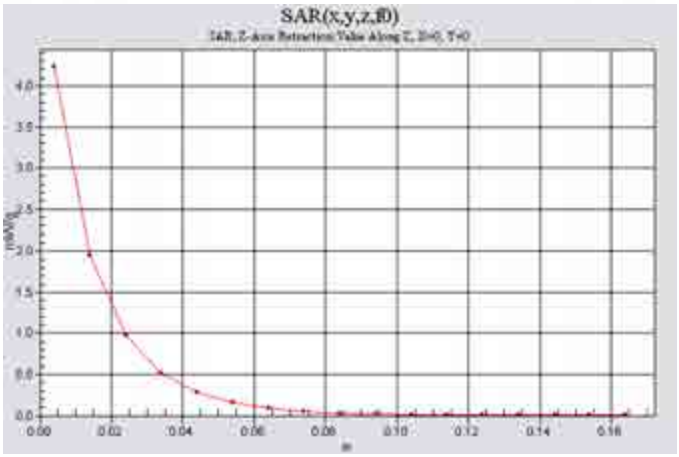
Note:
Prior to recording the Reported SAR values below, the Measured SAR values were corrected for tissue frequencies from 136 MHz to 3 GHz.

Reported SAR: 4.54 mW/g (1g); 3.38 mW/g (10g)

Comments:
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 mho/m; ε_r = 44.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, Calibrated: 3/24/2015, Frequency: 450 MHz, ConvF(6.66, 6.66, 6.66)
Electronics: DAE4 Sn1231, Calibrated: 3/20/2015

System Performance Check/Dipole Area Scan 2 (41x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 70.3 V/m; Power Drift = -0.01 dB
Motorola Fast SAR: SAR(1 g) = 3.98 mW/g; SAR(10 g) = 2.83 mW/g
Maximum value of SAR (interpolated) = 4.24 mW/g
System Performance Check/0-Degree Cube (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 70.3 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 5.93 W/kg
SAR(1 g) = 3.95 mW/g; SAR(10 g) = 2.63 mW/g
Maximum value of SAR (measured) = 4.24 mW/g
System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 4.23 mW/g





Appendix E
DUT Scans

Assessments at the Body - Table 17

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/20/2015 12:11:59 PMDate/Time: 5/20/2015 12:19:13 PMDate/Time: 5/20/2015 12:25:08 PM

Robot#: DASY4-FL-4	Run#: AvG-Ab-150520-03
Model#:	CU1410BKV4BA (HCUE1081F)
Phantom#:	OVAL1021
Tissue Temp:	21.6 (C)
Serial#:	134TQA327
Antenna:	FIXED
Test Freq:	450 (MHz)
Battery:	PMNN4497A
Carry Acc:	HCLN4013C
Audio Acc:	HKLN4606A
Start Power:	1.0 (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: 1.213 mW/g (1g); 0.868 mW/g (10g)

Comments:

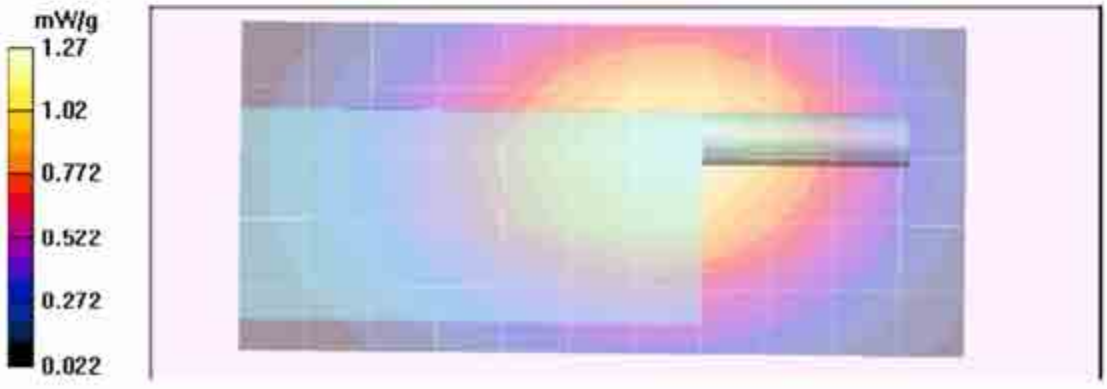
Duty Cycle: 1:1, Medium parameters used: σ = 0.92 mho/m, ε_r = 55.4; ρ = 1000 kg/m^3

Probe: ES3DV3 - SN3163, Calibrated: 3/24/2015, Frequency: 450 MHz, ConvF(7.08, 7.08, 7.08)
Electronics: DAE4 Sn1231, Calibrated: 3/20/2015

Ab Scan/1-Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 38.4 V/m; Power Drift = -0.319 dB
Motorola Fast SAR: SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.886 mW/g
Maximum value of SAR (interpolated) = 1.29 mW/g

Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 38.4 V/m; Power Drift = -0.406 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.863 mW/g

Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.26 mW/g



Assessments at the Face - Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/21/2015 1:32:13 PMDate/Time: 5/21/2015 1:39:39 PMDate/Time: 5/21/2015 1:45:38 PM

Robot#: DASY4-FL-4 | Run#:	AvG-Face-150521-03
Model#:	CU1410BKV4BA (HCUE1081F)
Phantom#:	OVAL1022
Tissue Temp:	20.7 (C)
Serial#:	134TQA327
Antenna:	FIXED
Test Freq:	450 (MHz)
Battery:	PMNN4497A
Carry Acc:	NA
Audio Acc:	NA
Start Power:	1.0 (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.

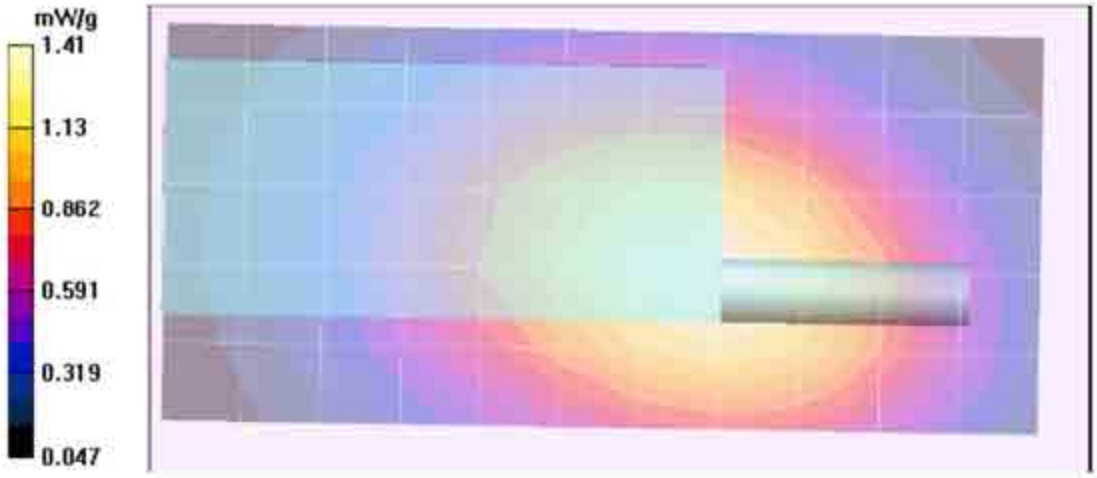
Reported SAR: 1.305 mW/g (1g); 0.94 mW/g (10g)

Comments:
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 mho/m; ε_r = 44.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, Calibrated: 3/24/2015, Frequency: 450 MHz, ConvF(6.66, 6.66, 6.66)
Electronics: DAE4 Sn1231, Calibrated: 3/20/2015

Face Scan/1-Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 41.2 V/m; Power Drift = -0.203 dB
Motorola Fast SAR: SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.986 mW/g
Maximum value of SAR (interpolated) = 1.41 mW/g

Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 41.2 V/m; Power Drift = -0.326 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.931 mW/g
Maximum value of SAR (measured) = 1.37 mW/g

Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.35 mW/g



APPENDIX F
Shortened Scan of Highest SAR configuration

Shortened Scan
Table 20

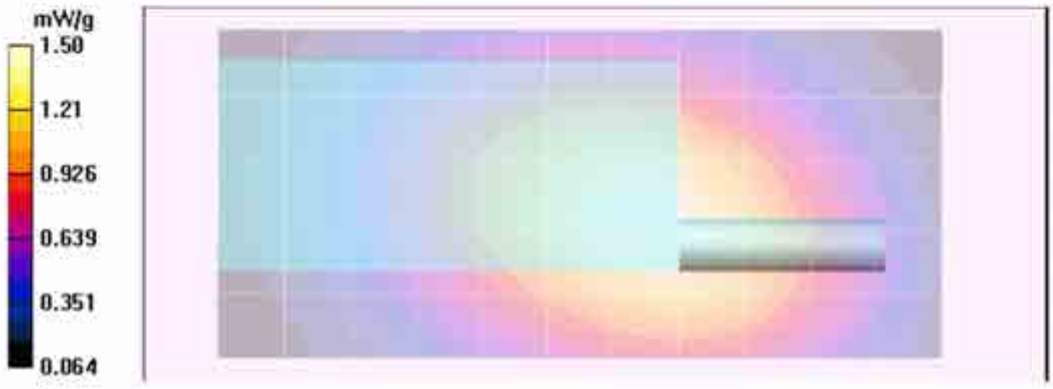
Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/21/2015 2:31:28 PMDate/Time: 5/21/2015 2:41:33 PMDate/Time: 5/21/2015 2:47:29 PM

Robot#: DASY4-FL-4 | Run#: AvG-Face-150521-05
Model#: CU1410BKV4BA (HCUE1081F)
Phantom#: OVAL1022
Tissue Temp: 20.7 (C)
Serial#: 134TQA248
Antenna: FIXED
Test Freq: 450 (MHz)
Battery: PMNN4497A
Carry Acc: NA
Audio Acc: NA
Start Power: 1.0 (W)

Note: Shortened Scan
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: 1.51 mW/g (1g); 1.08 mW/g (10g)

Comments:
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 mho/m; ε_r = 44.6; ρ = 1000 kg/m^3
Probe: ES3DV3 - SN3163, Calibrated: 3/24/2015, Frequency: 450 MHz, ConvF(6.66, 6.66, 6.66)
Electronics: DAE4 Sn1231, Calibrated: 3/20/2015
Face Scan/1-Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 42.5 V/m; Power Drift = -0.172 dB
Motorola Fast SAR: SAR(1 g) = 1.45 mW/g; SAR(10 g) = 1.06 mW/g
Maximum value of SAR (interpolated) = 1.52 mW/g
Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 42.5 V/m; Power Drift = -0.100 dB
Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 1.49 mW/g; SAR(10 g) = 1.07 mW/g
Maximum value of SAR (measured) = 1.56 mW/g
Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.55 mW/g



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

Scan Description	Referenced Table	Test Time (min.)	SAR 1g (W/kg)	SAR 10g (W/kg)
Shorten scan (zoom)	20	6	0.77	0.55
Full scan (area & zoom)	19	13	0.76	0.55

APPENDIX G
DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX H
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B