1001201110/110/110		Report ID: 1 0400 EME 000					
MOTOR	OLA SOLUTIONS	MS ISO/IEC 17025 TESTING SAMM No.0826					
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2							
Motorola Solutions Inc EME Test Laboratory Motorola Solutions Malaysia Sdn Bhd (Innoplex) (455657-H) Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas Penang, Malaysia.		Date of Report: 11/03/2017 Report Revision: B					
Responsible Engineer: Report Author: Date/s Tested: Manufacturer: DUT Description:	Veeramani Veerapan Veeramani Veerapan 09/22/2017-10/05/2017 Motorola Solutions Inc. Handheld Portable - CLP1040 Black Diamond, 450-470 MHz, 1 Watt, 4 Channels, Non-Display, Fixed Antenna						
Test TX mode(s): Max. Power output: Nominal Power: Tx Frequency Bands: Signaling type: Model(s) Tested:	CW (PTT) 1.2 Watt 1.0 Watt 450-470 MHz FM CLU1040BHLBA (PMUE3564D)						
Model(s) Certified: Serial Number(s): Classification: FCC ID:	CLU1010BHLBA, CLU1010BHLBB, CLU1010BHMBB, CLU1013BHLBB//CLP1013RL, CLU1040BHLBA, CLU1040BHLBB, CLU1040BHMBB, CLU1043BHLBA//CLP1043RL 158TTS0019 Occupational/Controlled AZ489FT4945; 450-470 MHz						
IC:	109U-89FT4945						
ISED Test Site Registration:	109AK						
FCC Test Firm Registration Number:	823256						
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 FCC 47 CFR § 2.1093.							
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.							
	Tiong						

Tiong Nguk Ing Deputy Technical Manager Approval Date: 11/03/2017

APPENDIX D System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory Date/Time: 9/22/2017 10:48:03 AM

Robot#: DASY5-PG-4 | Run: ZR(FAZ)-SYSP-450B-170922-01 D450V3 Dipole Model# Phantom#: ELI4 1016 Tissue Temp: 21.3 (C) Serial#: 1077 Test Freq: 450 (MHz) Start Power: 250 (mW) Rotation (1D): 0.032 dB Adjusted SAR (1W): 4.84 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$ Probe: ES3DV3 - SN3196, , Frequency: 450 MHz, ConvF(7, 7, 7); Calibrated: 5/17/2017 Electronics: DAE4 Sn684, Calibrated: 5/12/2017

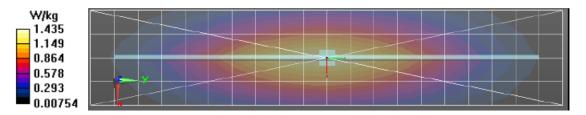
Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x201x1):

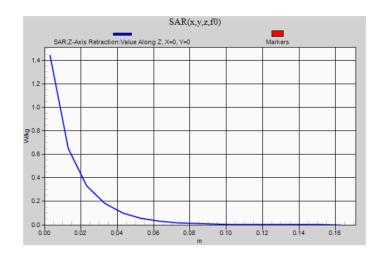
Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 39.45 V/m; Power Drift = -0.04 dB Fast SAR: SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.865 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 1.44 W/kg

Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 39.45 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 1.97 W/kg SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.806 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 1.44 W/kg

Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm





Motorola Solutions, Inc. EME Laboratory Date/Time: 10/4/2017 11:30:14 AM

Robot#: DASY5-PG-3 | Run#: AZ-SYSP-450B-171004-14 D450V3 Dipole Model# Phantom#: ELI4 1103 Tissue Temp: 21.1 (C) Serial#: 1077 Test Freq: 450.0000 (MHz) Start Power: 250 (mW) Rotation (1D): 0.100 dB Adjusted SAR (1W): 4.52 mW/g (1g)

Comments:

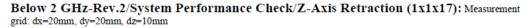
Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; $\sigma = 0.97 \text{ S/m}$; $\varepsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$ Probe: EX3DV4 - SN3612, , Frequency: 450 MHz, ConvF(9.35, 9.35, 9.35); Calibrated: 5/17/2017 Electronics: DAE4 Sn1294, Calibrated: 5/23/2017

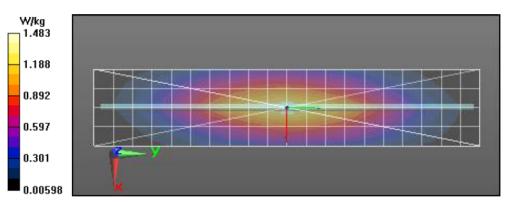
Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x201x1):

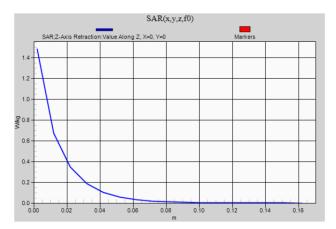
Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 39.46 V/m; Power Drift = -0.03 dB Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.822 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 1.48 W/kg

Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 39.46 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.79 W/kg SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.760 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 1.49 W/kg







APPENDIX E DUT Scans

Assessments at the Body with Body Worn HKLN4438B Table 18

Motorola Solutions, Inc. EME Laboratory Date/Time: 9/22/2017 3:09:13 PM

Robot#: DASY5-PG-04 Run#: Model#: Phantom#: Tissue Temp: Serial#: Antenna:	PMÙE3564D ELI4 1016 21.3 (C) 158TTS0019 Fixed (Internal)
Test Freq:	461.0375 (MHz)
Battery:	HKNN4013A
Carry Acc:	HKLN4438B
Audio Acc:	HKLN4529A
Start Power:	1.15 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 461 MHz; σ = 0.96 S/m; ϵ_r = 54.7; ρ = 1000 kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 461.038 MHz, ConvF(7, 7, 7); Calibrated: 5/17/2017 Electronics: DAE4 Sn684, Calibrated: 5/12/2017

Below 2 GHz-Rev.2/Ab Scan/1-Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 42.19 V/m; Power Drift = -0.30 dB Fact SAP: SAP(d_{2}) = 1.55 W/kg SAP(d_{2}) = 1.12 W/kg (SAP corrected for target medium)

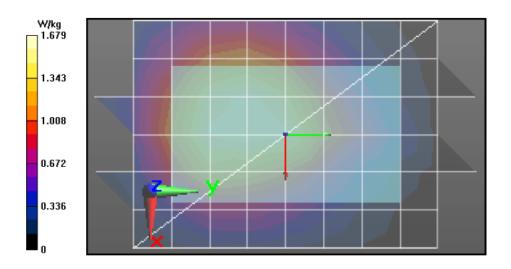
Fast SAR: SAR(1 g) = 1.55 W/kg; SAR(10 g) = 1.12 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 1.73 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm Reference Value = 42.19 V/m; Power Drift = -0.45 dB Peak SAR (extrapolated) = 2.24 W/kg SAR(1 g) = 1.48 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)

Below 2 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.64 W/kg



Assessments at the Body with Body Worn HKLN4433A Table 19

Motorola Solutions, Inc. EME Laboratory Date/Time: 9/22/2017 1:42:51 PM

ZR(FAZ)-AB-170922-05
PMUE3564D
ELI4 1016
21.3 (C)
158TTS0019
Fixed (Internal)
461.0375 (MHz)
HKNN4014B
HKLN4433A Magnetic clip & batt cover
HKLN4529A
1.12(W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 461 MHz; $\sigma = 0.96 \text{ S/m}$; $\varepsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$ Probe: ES3DV3 - SN3196, , Frequency: 461.038 MHz, ConvF(7, 7, 7); Calibrated: 5/17/2017 Electronics: DAE4 Sn684, Calibrated: 5/12/2017

Below 2 GHz-Rev.2/Ab Scan/1-Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 62.10 V/m; Power Drift = -0.29 dB Fast SAR: SAR(1 g) = 4.45 W/kg; SAR(10 g) = 2.95 W/kg (SAR corrected for target medium)

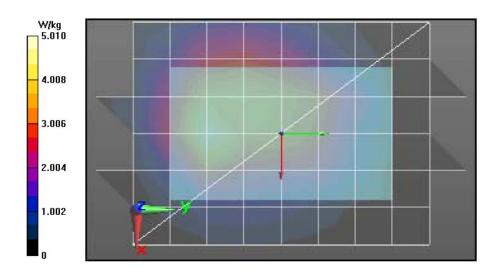
Maximum value of SAR (interpolated) = 5.24 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm Reference Value = 62.10 V/m; Power Drift = -0.48 dB Peak SAR (extrapolated) = 7.98 W/kg SAR(1 g) = 3.99 W/kg; SAR(10 g) = 2.53 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.57 W/kg

Below 2 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.62 W/kg



APPENDIX F Shortened Scan of Highest SAR configuration

Table 21

Motorola Solutions, Inc. EME Laboratory Date/Time: 9/22/2017 11:01:47 PM

Robot#: DASY5-PG-04 | Run#: FD(AN)-AB-170922-09 Model#: PMUE3564D Phantom#: ELI4 1016 Tissue Temp: 20.8 (C) 158TT\$0019 Serial#: Antenna: Fixed (Internal) Test Freq: 461.0375 (MHz) Battery: HKNN4014B HKLN4433A Magnetic clip & batt cover Carry Acc: HKLN4529A Audio Acc: Start Power: 1.12 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 461 MHz; σ = 0.96 S/m; ϵ_r = 54.7; ρ = 1000 kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 461.038 MHz, ConvF(7, 7, 7); Calibrated: 5/17/2017 Electronics: DAE4 Sn684, Calibrated: 5/12/2017

Below 2 GHz-Rev.2/Ab Scan/1-Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 62.04 V/m; Power Drift = -0.27 dB Fast SAR: SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.85 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 4.90 W/kg

Below 2 GHz-Rev.2/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

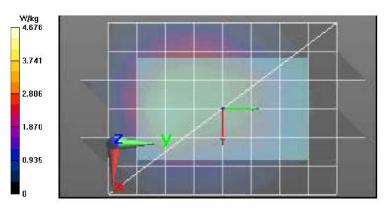
Reference Value = 62.04 V/m; Power Drift = -0.40 dB Fast SAR: SAR(1 g) = 4.17 W/kg; SAR(10 g) = 2.8 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 4.95 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm Reference Value = 73.58 V/m; Power Drift = -0.28 dB Peak SAR (extrapolated) = 8.52 W/kg SAR(1 g) = 4.31 W/kg; SAR(10 g) = 2.74 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.96 W/kg

Below 2 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.59 W/kg



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)
Shorten scan (zoom)	21	8	2.46
Full scan (area & zoom)	19	20	2.39

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