



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:** 01/03/2018

Report Revision: A

Responsible Engineer:Veeramani VeerapanReport Author:Veeramani VeerapanDate/s Tested:12/29/2017 - 12/30/2017Manufacturer:Motorola Solutions Inc.

DUT Description: Handheld Portable - CLP1060 Black Diamond, BT, 450-470 MHz, 1 Watt, 6

Channels, Non-Display, Fixed Antenna

Test TX mode(s): CW (FM), Bluetooth

Max. Power output: 1.2 Watt, 2.7mW (Bluetooth) **Nominal Power:** 1.0 Watt, 1.5mW (Bluetooth)

Tx Frequency Bands: 450-470 MHz, 2.402-2.480 GHz (Bluetooth)

Signaling type: FM(LMR), FHSS (Bluetooth) **Model(s) Tested:** CLU1060BBLBA (PMUE3605D)

Model(s) Certified: CLU1060BBLAB, CLU1060BBLBA, CLU1060BBMAB,

CLU1063BBLAB/CLP1063RL

Serial Number(s): 0098TY0093

Classification: Occupational/Controlled

FCC ID: AZ489FT7110; 450-470 MHz, Bluetooth 2.402-2.480 GHz

IC: 109U-89FT7110

ISED Test Site

Registration: 109AK

FCC Test Firm

Registration 823256

Number:

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: 1/10/2018

APPENDIX D System Verification Check Scans

Page 1 of 2

Motorola Solutions, Inc. EME Laboratory Date/Time: 12/29/2017 8:39:48 PM

Robot#: DASY5-PG-4 | Run: AZ(FAZ)-SYSP-450B-171229-01

 Dipole Model#
 D450V3

 Phantom#:
 ELI4 1040

 Tissue Temp:
 20.3 (C)

 Serial#:
 1054

Test Freq: 450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.033 dB
Adjusted SAR (1W): 4.84 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.96 S/m; ϵ_r = 55.7; ρ = 1000 kg/m³ 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 = 39.36 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.866 W/kg (SAR corrected for target medium)

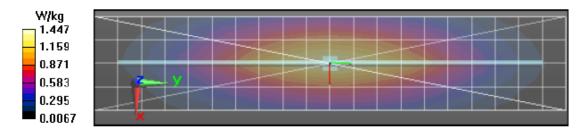
Maximum value of SAR (interpolated) = 1.45 W/kg

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 = 39.36 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 2.01 W/kg SAR(1 a) = 1.21 W/kg; SAR(10 a) = 0.803 W/kg (SAR corrected)

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.803 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 1.46 W/kg

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



APPENDIX E DUT Scans

Assessments at the Body with Body Worn HKLN4438B Table 18

Motorola Solutions, Inc. EME Laboratory Date/Time: 12/29/2017 11:06:14 PM

Robot#: DASY5-PG-4 | Run#: AZ(FAZ)-AB-171229-03

Model#: PMUE3605D Phantom#: ELI4 1040 Tissue Temp: 20.4 (C) 0098TY0093 Serial#: Antenna: Fixed (Internal) 451.1875 (MHz) Test Freq: HKNN4013A Battery: Carry Acc: HKLN4438B Audio Acc: HKLN4529A Start Power 1.190 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 451 MHz; σ = 0.96 S/m; ϵ_r = 55.7; ρ = 1000 kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 451.188 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 = 42.20 V/m; Power Drift = -0.41 dB

Fast SAR: SAR(1 g) = 1.49 W/kg; SAR(10 g) = 1.07 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.66 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 42.20 V/m; Power Drift = -0.70 dB

Peak SAR (extrapolated) = 2.06 W/kg

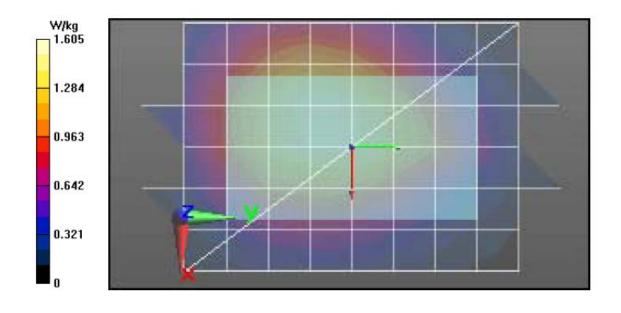
SAR(1 g) = 1.4 W/kg; SAR(10 g) = 0.996 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.59 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) = 1.52 W/kg



Assessments at the Body with Body Worn HKLN4433A

Motorola Solutions, Inc. EME Laboratory Date/Time: 12/29/2017 11:41:54 PM

Robot#: DASY5-PG-4 | Run#: AZ(FAZ)-AB-171229-04

PMUE3605D Model#: Phantom#: ELI4 1040 Tissue Temp: 20.4 (C) Serial#: 0098TY0093 Fixed (Internal) Antenna: Test Freq: 451.1875 (MHz) HKNN4014B Battery: HKLN4433A Carry Acc: Audio Acc: HKLN4529A Start Power: 1.170 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 451 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 451.188 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 = 73.61 V/m; Power Drift = -0.43 dB

Fast SAR: SAR(1 g) = 4.52 W/kg; SAR(10 g) = 3.04 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.28 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

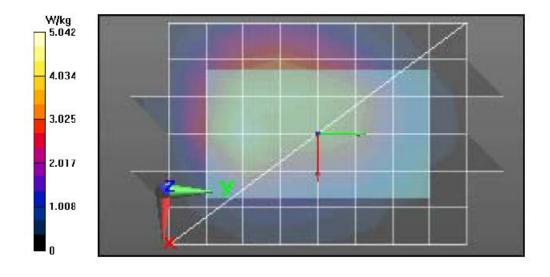
Reference Value = 73.61 V/m; Power Drift = -0.70 dB

Peak SAR (extrapolated) = 7.95 W/kg

SAR(1 g) = 4.02 W/kg; SAR(10 g) = 2.58 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.62 W/kg

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

Maximum value of SAR (measured) = 4.67 W/kg



Assessment at the Body with wireless BT configuration

Motorola Solutions, Inc. EME Laboratory Date/Time: 12/30/2017 12:23:29 AM

Robot#: DASY5-PG-4 | Run#: AZ(FAZ)-AB-171230-01

1.170 (W)

PMUE3605D Model#: ELI4 1040 Phantom#: Tissue Temp: 20.3 (C) Serial#: 0098TY0093 Antenna: Fixed (Internal) Test Freq: 451.1875 (MHz) HKNN4014B Battery: Carry Acc: HKLN4433A Audio Acc: None (BT)

Comments:

Start Power:

Duty Cycle: 1:1, Medium parameters used: f = 451 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 451.188 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 = 78.14 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 4.93 W/kg; SAR(10 g) = 3.35 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 5.73 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 78.14 V/m; Power Drift = -0.70 dB

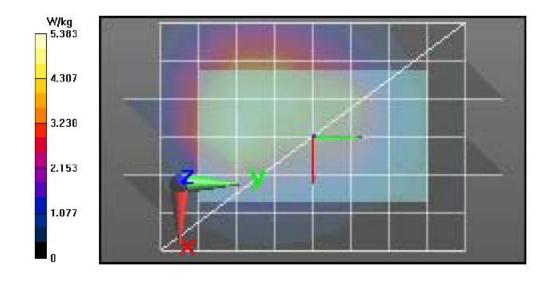
Peak SAR (extrapolated) = 9.03 W/kg

SAR(1 g) = 4.46 W/kg; SAR(10 g) = 2.81 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.33 W/kg

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

Maximum value of SAR (measured) = 5.29 W/kg



APPENDIX F Shortened Scan of Highest SAR configuration Table 22

Motorola Solutions, Inc. EME Laboratory Date/Time: 12/30/2017 1:17:58 AM

Robot#: DASY5-PG-4 | Run#: AZ(FAZ)-AB-171230-02

PMUE3605D Model#: Phantom#: ELI4 1040 20.3 (C) Tissue Temp: Serial#: 0098TY0093 Fixed (Internal) Antenna: 451.1875 (MHz) Test Freq: Battery: HKNN4014B Carry Acc: HKLN4433A Audio Acc: None (BT) Start Power: 1.170 (W)

Comments:

Duty Cycle: 1:1, Medium parameters used: f= 451 MHz; σ = 0.96 S/m; ϵ_r = 55.7; ρ = 1000 kg/m³ Probe: ES3DV3 - SN3196, , Frequency: 451.188 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 (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 79.09 V/m; Power Drift = -0.46 dB

Fast SAR: SAR(1 g) = 4.91 W/kg; SAR(10 g) = 3.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.68 W/kg

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

dy=0.7500 mm, dz=1.000 mm

Reference Value = 79.09 V/m; Power Drift = -0.57 dB

Fast SAR: SAR(1 g) = 4.76 W/kg; SAR(10 g) = 3.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.72 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) = 5.30 W/kg

Below 2 GHz-Rev.2/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm,

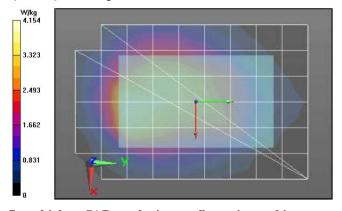
dy=7.5mm, dz=5mm

Reference Value = 75.82 V/m; Power Drift = -0.64 dB

Peak SAR (extrapolated) = 9.79 W/kg

SAR(1 g) = 4.9 W/kg; SAR(10 g) = 3.06 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.04 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)	22	10	2.91
Full scan (area & zoom)	20	20	2.69

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