MOTOROLA SOLUTIONS

SAMM 826

CERTIFICATE 2518.05

**DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2**

**Motorola Solutions Inc.**
**EME Test Laboratory**
Motorola Solutions Malaysia Sdn Bhd
Plot 2A, Medan Bayan Lepas,
Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

**Date of Report:** 02/04/2025
**Report Revision:** B

| | |
|---|---|
| **Responsible Engineer:** | Yeng Yee Yeong (EME Engineer) |
| **Report Author:** | Yeng Yee Yeong (EME Engineer) |
| **Date/s Tested:** | 9/24/2024-9/26/2024 |
| **Test Location:** | Penang EME Laboratory |
| **Manufacturer:** | Motorola Solutions Malaysia Sdn. Bhd. |
| **Manufacturer Location:** | Plot 2A, Medan Bayan Lepas Mukim, 12 SWD, 11900 Bayan Lepas, Penang, Malaysia |
| **DUT Description:** | Portable – V200 Body Worn Camera |
| **Test TX mode(s):** | FHSS (Bluetooth / Bluetooth LE), 802.11b/g/n (WLAN 2.4GHz) |
| **Max. Power output:** | Refer Table 3 & Table 3a (Part 1 of 2) |
| **Tx Frequency Bands:** | Refer Table 3 & Table 3a (Part 1 of 2) |
| **Signaling type:** | Refer Table 3 & Table 3a (Part 1 of 2) |
| **Model(s) Tested:** | B20CJMBE2AN |
| **Model(s) Certified: (HVIN/PMN)** | Refer 1.0 Introduction (Part 1 of 2) |
| **Serial Number(s):** | 663EAS0004, 663EAS0003 |
| **Classification:** | Occupational/Controlled Environment |
| **Applicant Name:** | Motorola Solutions Inc. |
| **Applicant Address:** | Plot 2A, Medan Bayan Lepas Mukim, 12 SWD, 11900 Bayan Lepas, Penang, Malaysia |
| **Firmware Version (FVIN):** | PSS fs2-ARMV7A_PTF V24.4-ptf-V200-1.8-1-g501bb5026c |
| **FCC ID:** | AZ499FT7183<br>This report contains results that are immaterial for FCC equipment approval, which are clearly identified. |
| **FCC Test Firm Registration Number:** | 823256 |
| **IC:** | 109U-99FT7183<br>This report contains results that are immaterial for ISED equipment approval, which are clearly identified. |
| **ISED Test Site registration:** | 24843 |

The test results clearly demonstrate compliance with Occupational/Controlled Environment RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and RSS-102 (Issue 6)

**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 (no deviation from standard methods). 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. The results and statements contained in this report pertain only to the device(s) evaluated.**

**Saw Sun Hock (Approval Signatory)**
**Approved Date: 02/04/2025**

# Appendix D

# System Verification Check Scans

# Motorola Solutions, Inc. EME Laboratory

**Date/Time: 9/25/2024 5:24:31 PM**

Robot#: DASY5-PG-3 | Run#: DAN(ABE)-SYSP-2450H-240925-12
Dipole Model# D2450V2
Phantom#: ELI4 1109
Tissue Temp: 21.3 (C)
Serial#: 781
Test Freq: 2450.0000(MHz)
Start Power: 31.6 mW)
Rotation (1D): 0.13 dB
Adjusted SAR (1W): 50.32 mW/g (1g)

Comments:
Communication System Band: D2450 (2450.0 MHz), Communication System UID: 0, Duty Cycle: 1:1,
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.666 S/m; $\varepsilon_r$ = 37.48; $\rho$ = 1000 kg/m$^3$
Probe: EX3DV4 - SN7486, Calibrated: 1/19/2024, Frequency: 2450 MHz, ConvF(7.87, 7.87, 7.87) @ 2450 MHz
Electronics: DAE4 Sn684, Calibrated: 2/22/2022

## 2-3 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (51x91x1): Interpolated grid:

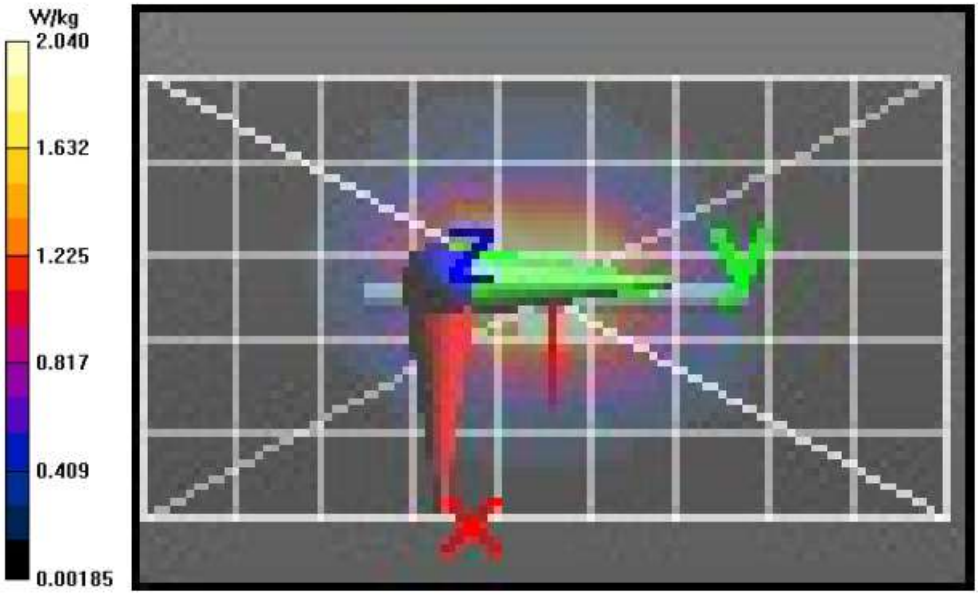
dx=1.200 mm, dy=1.200 mm
Reference Value = 40.63 V/m; Power Drift = -0.13 dB
**Fast SAR: SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.733 W/kg** (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.61 W/kg

## 2-3 GHz-Rev.3/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm
Reference Value = 40.63 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.02 W/kg
**SAR(1 g) = 1.59 W/kg; SAR(10 g) = 0.763 W/kg** (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 52.3%
Maximum value of SAR (measured) = 2.48 W/kg

## 2-3 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.50 W/kg



# Appendix E

# DUT Scans

## Highest SAR at FCC WLAN 2.4GHz Body

### Table 17

### Motorola Solutions, Inc. EME Laboratory

**Date/Time: 9/25/2024 8:45:26 AM**

Robot#: DASY5-PG-3 | Run#: DAN(ABE)-AB-240925-07@
Model#: PMMN2000A
Phantom#: ELI4 1109
Tissue Temp: 22.5 (C)
Serial#: 663EAS0004
Antenna: AN000474A03
Test Freq: 2412.0000 (MHz)
Battery: PMNN4578A
Carry Acc: AC-LANYARD-05 w/ PMLN8121A
Audio Acc: None
Start Power: 0.067 (W)

Comments:

Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz), Communication System UID: 10415 - AAA, Duty Cycle: 1:1.4243,

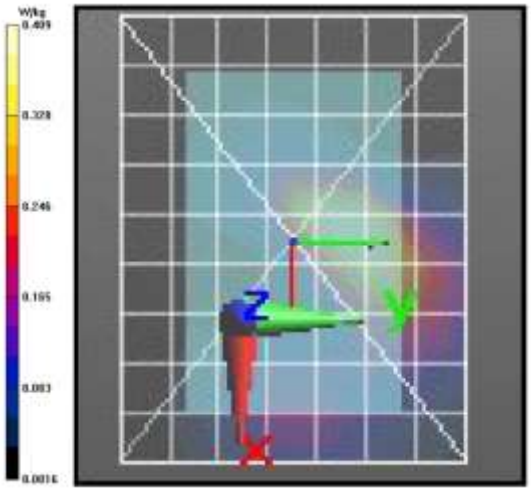
Medium parameters used: f = 2412 MHz; $\sigma$ = 1.602 S/m; $\varepsilon_r$ = 38.931; $\rho$ = 1000 kg/m$^3$

Probe: EX3DV4 - SN7486, Calibrated: 1/19/2024, Frequency: 2412 MHz, ConvF(7.87, 7.87, 7.87) @ 2412 MHz
Electronics: DAE4 Sn684, Calibrated: 2/22/2022

**2-3 GHz-Rev.3/Ab Scan/1-Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 15.29 V/m; Power Drift = -0.71 dB
**Fast SAR: SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.149 W/kg** (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.545 W/kg

**2-3 GHz-Rev.3/Ab Scan/3-Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.29 V/m; Power Drift = -0.76 dB
Peak SAR (extrapolated) = 0.636 W/kg
**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.156 W/kg** (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 0.511 W/kg

**2-3 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.510 W/kg




## Highest SAR at ISED WLAN 2.4GHz Body

## Table 18

### Motorola Solutions, Inc. EME Laboratory

**Date/Time: 9/25/2024 8:45:26 AM**

Robot#: DASY5-PG-3 | Run#: DAN(ABE)-AB-240925-07@
Model#: PMMN2000A
Phantom#: ELI4 1109
Tissue Temp: 22.5 (C)
Serial#: 663EAS0004
Antenna: AN000474A03
Test Freq: 2412.0000 (MHz)
Battery: PMNN4578A
Carry Acc: AC-LANYARD-05 w/ PMLN8121A
Audio Acc: None
Start Power: 0.067 (W)

Comments:

Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz), Communication System UID: 10415 - AAA, Duty Cycle: 1:1.4243,

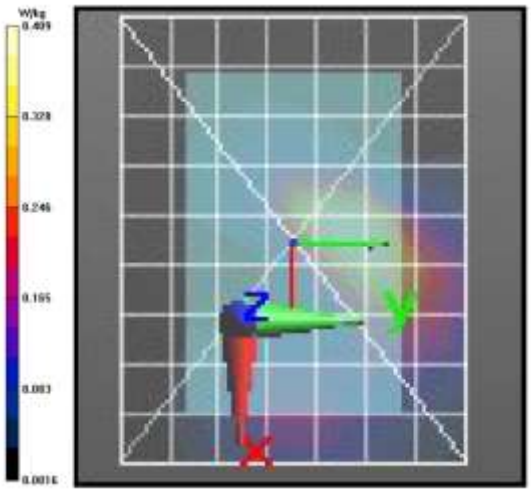
Medium parameters used: f = 2412 MHz; $\sigma$ = 1.602 S/m; $\varepsilon_r$ = 38.931; $\rho$ = 1000 kg/m$^3$

Probe: EX3DV4 - SN7486, Calibrated: 1/19/2024, Frequency: 2412 MHz, ConvF(7.87, 7.87, 7.87) @ 2412 MHz
Electronics: DAE4 Sn684, Calibrated: 2/22/2022

**2-3 GHz-Rev.3/Ab Scan/1-Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 15.29 V/m; Power Drift = -0.71 dB
**Fast SAR: SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.149 W/kg** (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.545 W/kg

**2-3 GHz-Rev.3/Ab Scan/3-Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.29 V/m; Power Drift = -0.76 dB
Peak SAR (extrapolated) = 0.636 W/kg
**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.156 W/kg** (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 0.511 W/kg

**2-3 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.510 W/kg



# APPENDIX F

## Shortened Scan of Highest SAR configuration

## Shortened Scan Assessment

## Table 19

### Motorola Solutions, Inc. EME Laboratory

**Date/Time: 9/25/2024 9:36:02 AM**

Robot#: DASY5-PG-3 | Run#: DAN(ABE)-AB-240925-08@
Model#: PMMN2000A
Phantom#: ELI4 1109
Tissue Temp: 22.5 (C)
Serial#: 663EAS0004
Antenna: AN000474A03
Test Freq: 2412.0000 (MHz)
Battery: PMNN4578A
Carry Acc: AC-LANYARD-05 w/ PMLN8121A
Audio Acc: None
Start Power: 0.067 (W)

Comments: Shorten scan

Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz), Communication System UID: 10415 - AAA, Duty Cycle: 1:1.4243,

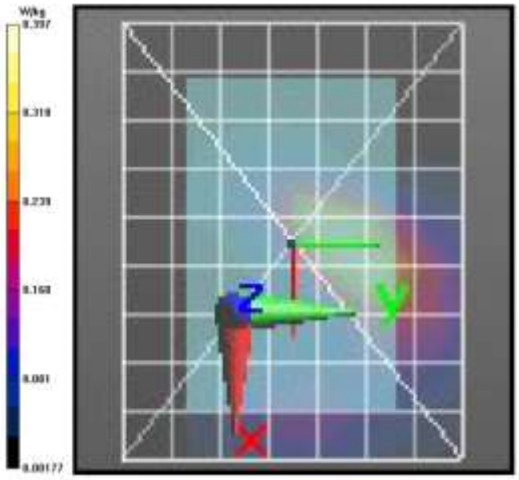
Medium parameters used: f = 2412 MHz; $\sigma$ = 1.602 S/m; $\varepsilon_r$ = 38.931; $\rho$ = 1000 kg/m$^3$

Probe: EX3DV4 - SN7486, Calibrated: 1/19/2024, Frequency: 2412 MHz, ConvF(7.87, 7.87, 7.87) @ 2412 MHz
Electronics: DAE4 Sn684, Calibrated: 2/22/2022

**2-3 GHz-Rev.3/Ab Scan/1-Area Scan (91x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 12.78 V/m; Power Drift = -0.74 dB
**Fast SAR: SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.141 W/kg** (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.497 W/kg

**2-3 GHz-Rev.3/Ab Scan/3-Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.22 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.601 W/kg
**SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.148 W/kg** (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 7.6 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 0.489 W/kg

**2-3 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.486 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) | 19 | 20 | 0.357 |
| Full Scan (Area & Zoom) | 17 | 30 | 0.436 |

# 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