

 MOTOROLA SOLUTIONS	    SMM 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: 10/4/2023 Report Revision: D																																										
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Responsible Engineer:</td> <td>Lee Kin Kting (EME Engineer)</td> </tr> <tr> <td>Report Author:</td> <td>Lee Kin Kting (EME Engineer)</td> </tr> <tr> <td>Date/s Tested:</td> <td>8/21/2023 - 8/25/2023, 09/06/2023 – 09/07/2023, 09/14/2023</td> </tr> <tr> <td>Manufacturer:</td> <td>Motorola Solutions Inc.</td> </tr> <tr> <td>DUT Description:</td> <td>Handheld Portable –T803 FRS Consumer Radio 462-467MHz Green</td> </tr> <tr> <td>Test TX mode(s):</td> <td>CW (PTT) & BT</td> </tr> <tr> <td>Max. Power output:</td> <td>Refer table 4 (part 1 of 2)</td> </tr> <tr> <td>Nominal Power:</td> <td>Refer table 4 (part 1 of 2)</td> </tr> <tr> <td>Tx Frequency Bands:</td> <td>LMR 462.5500 – 462.7250 MHz, 467.5625- 467.7125 MHz, 2.402-2.480GHz</td> </tr> <tr> <td>Signaling type:</td> <td>FM (CW), GFSK & $\pi/4$-DQPSK (Bluetooth)</td> </tr> <tr> <td>Model(s) Tested:</td> <td>T803 (PMUE5446B)</td> </tr> <tr> <td>Model(s) Certified:</td> <td>Refer Table 1 (part 1 of 2)</td> </tr> <tr> <td>Serial Number(s):</td> <td>17520ZN0375, 17520ZN0377</td> </tr> <tr> <td>Classification:</td> <td>General Population / Uncontrolled Environment</td> </tr> <tr> <td>Firmware Version:</td> <td>NA004</td> </tr> <tr> <td>Applicant Name:</td> <td>Motorola Solutions Inc.</td> </tr> <tr> <td>Applicant Address:</td> <td>8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322</td> </tr> <tr> <td>FCC ID:</td> <td>AZ489FT7174</td> </tr> <tr> <td colspan="2" style="padding-top: 20px;"> FCC Test Firm Registration Number: 823256 </td> </tr> <tr> <td colspan="2" style="padding-top: 20px;"> IC: 109U-89FT7174 </td> </tr> <tr> <td colspan="2" style="padding-top: 20px;"> ISED Test Site registration: 24843 </td> </tr> </table> The test results clearly demonstrate compliance with General Population / Uncontrolled 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 5) 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. 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.  Tey Pei Loo (Approval Signatory) Approval Date: 10/4/2023		Responsible Engineer:	Lee Kin Kting (EME Engineer)	Report Author:	Lee Kin Kting (EME Engineer)	Date/s Tested:	8/21/2023 - 8/25/2023, 09/06/2023 – 09/07/2023, 09/14/2023	Manufacturer:	Motorola Solutions Inc.	DUT Description:	Handheld Portable –T803 FRS Consumer Radio 462-467MHz Green	Test TX mode(s):	CW (PTT) & BT	Max. Power output:	Refer table 4 (part 1 of 2)	Nominal Power:	Refer table 4 (part 1 of 2)	Tx Frequency Bands:	LMR 462.5500 – 462.7250 MHz, 467.5625- 467.7125 MHz, 2.402-2.480GHz	Signaling type:	FM (CW), GFSK & $\pi/4$ -DQPSK (Bluetooth)	Model(s) Tested:	T803 (PMUE5446B)	Model(s) Certified:	Refer Table 1 (part 1 of 2)	Serial Number(s):	17520ZN0375, 17520ZN0377	Classification:	General Population / Uncontrolled Environment	Firmware Version:	NA004	Applicant Name:	Motorola Solutions Inc.	Applicant Address:	8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322	FCC ID:	AZ489FT7174	FCC Test Firm Registration Number: 823256		IC: 109U-89FT7174		ISED Test Site registration: 24843	
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Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/22/2023 11:28:56 AM

Robot#: DASY5-PG-1 | Run#: AR-SYSP-450H-230822-07
 Dipole Model#: D450V3
 Phantom#: ELI5 1147
 Serial#: 1053
 Test Freq: 450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.057 dB
 Adjusted SAR (1W): 4.96 mW/g (1g)

Comments:

Communication System Band: D450, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 450$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 450 MHz, ConvF(11.24, 11.24, 11.24) @ 450 MHz
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x221x1):

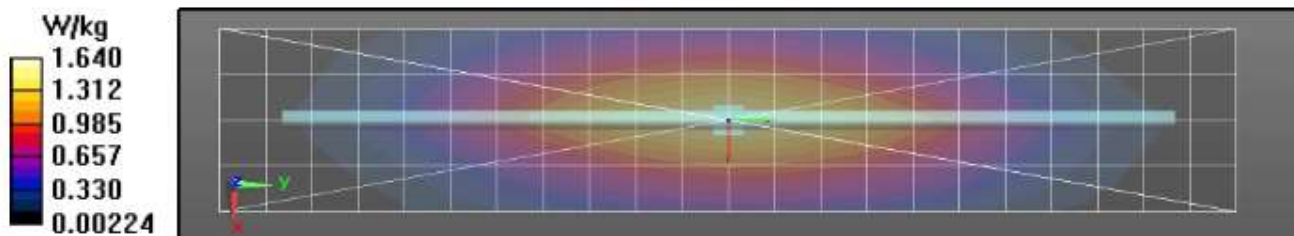
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Reference Value = 46.48 V/m; Power Drift = -0.13 dB
Fast SAR: SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.911 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.64 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
 Reference Value = 46.48 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 1.89 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.832 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
 Ratio of SAR at M2 to SAR at M1 = 64.6%
 Maximum value of SAR (measured) = 1.65 W/kg

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

grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm
 Maximum value of SAR (measured) = 1.69 W/kg



Appendix E

DUT Scans

Assessments at the FCC/ISED Body (462.5500-462.7250) - Table 20

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/6/2023 10:40:51 PM

Robot#: DASY5-PG-1 | Run#: BL-AB-230906-10
 Model#: T803 (Tanapa: PMUE5446B)
 Phantom#: ELI5 1147
 Tissue Temp: 20.2 (C)
 Serial#: 17520ZN0377
 Antenna: Fixed antenna
 Test Freq: 462.6250 (MHz)
 Battery: PMNN4477A
 Carry Acc: 1564028V01
 Audio Acc: NTN8867A
 Start Power: 1.72 (W)

Comments:

Communication System Band: Maroon Bell, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: $f = 463$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 462.625 MHz, ConvF(11.24, 11.24, 11.24) @ 462.625 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 59.70 V/m; Power Drift = -0.84 dB

Fast SAR: SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.52 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.63 W/kg

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

Reference Value = 59.70 V/m; Power Drift = -0.99 dB

Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1.34 W/kg (SAR corrected for target medium)

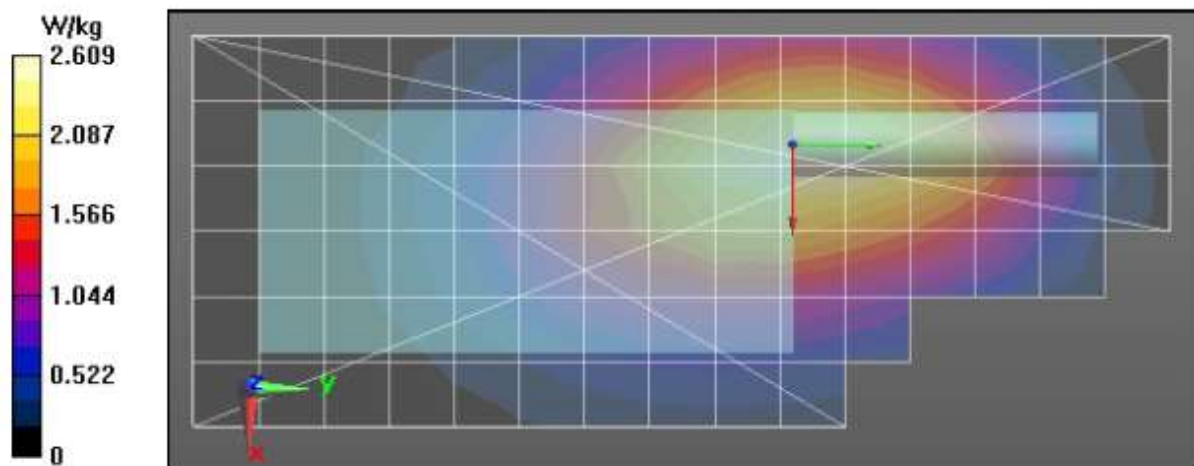
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 67.8%

Maximum value of SAR (measured) = 2.46 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.44 W/kg



Assessments at the FCC/ISED Face (462.5500-462.7250) - Table 22

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/22/2023 4:54:49 PM

Robot#: DASY5-PG-1 | Run#: AR-FACE-230822-12
 Model#: T803 (Tanapa: PMUE5446B)
 Phantom#: ELI5 1147
 Tissue Temp: 20.3 (C)
 Serial#: 17520ZN0377
 Antenna: Fixed antenna
 Test Freq: 462.6250 (MHz)
 Battery: PMNN4477A
 Carry Acc: @ front
 Audio Acc: N/A
 Start Power: 1.72 (W)

Comments:

Communication System Band: Maroon Bell, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 463 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 462.625 MHz, ConvF(11.24, 11.24, 11.24) @ 462.625 MHz
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x151x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 45.17 V/m; Power Drift = -0.65 dB

Fast SAR: SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.948 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.60 W/kg

Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5 \text{ mm}$, $dy=7.5 \text{ mm}$, $dz=5 \text{ mm}$

Reference Value = 45.17 V/m; Power Drift = -0.74 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.906 W/kg (SAR corrected for target medium)

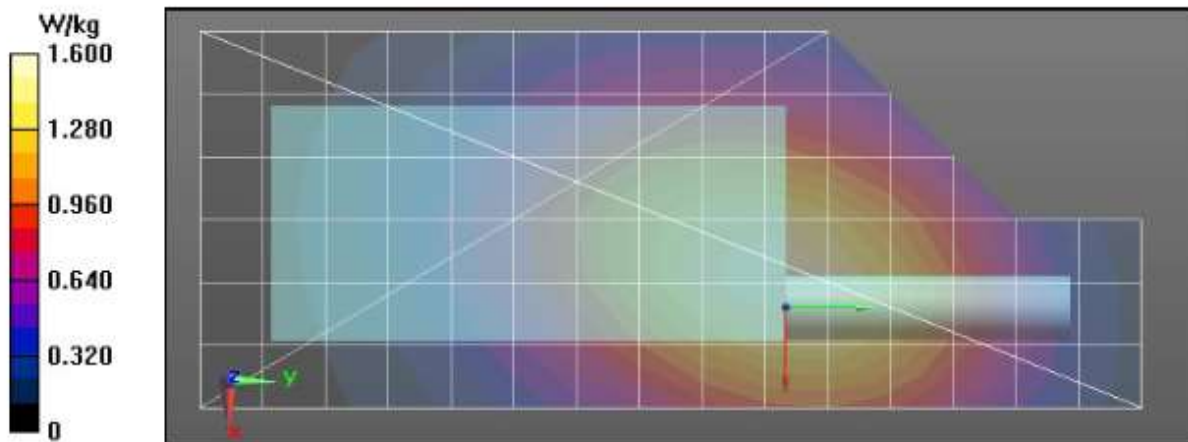
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 72.2%

Maximum value of SAR (measured) = 1.53 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: $dx=20 \text{ mm}$, $dy=20 \text{ mm}$, $dz=10 \text{ mm}$

Maximum value of SAR (measured) = 1.50 W/kg



Assessments at the FCC/ISED Body (467.5625 – 467.7150) - Table 26

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/14/2023 9:43:53 PM

Robot#: DASY5-PG-1 | Run#: EMR-AB-230914-23
 Model#: T803 (Tanapa: PMUE5446B)
 Phantom#: ELI4 022
 Tissue Temp: 21.0 (C)
 Serial#: 17520ZN0375
 Antenna: Fixed antenna
 Test Freq: 467.6375 (MHz)
 Battery: PMNN4477A
 Carry Acc: 1564028V01
 Audio Acc: None
 Start Power: 0.62 (W)

Comments:

Communication System Band: Maroon Bell, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 468$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 43$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 467.637 MHz, ConvF(11.24, 11.24, 11.24) @ 467.637 MHz
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 50.04 V/m; Power Drift = -0.88 dB

Fast SAR: SAR(1 g) = 1.56 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.93 W/kg

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

Reference Value = 50.04 V/m; Power Drift = -0.97 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)

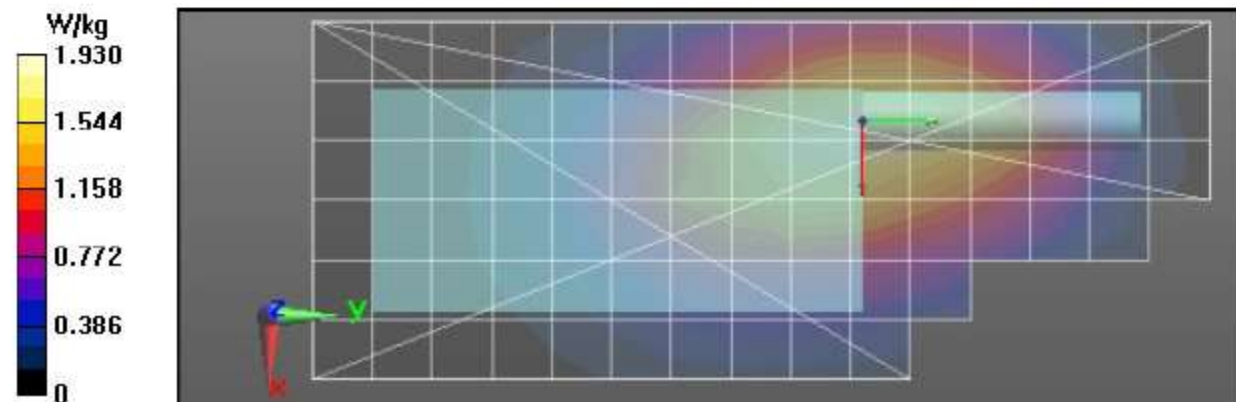
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 1.87 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.85 W/kg



Assessments at the FCC/ISED Face (467.5625 – 467.7125) - Table 27

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/23/2023 5:19:51 PM

Robot#: DASY5-PG-1 | Run#: AR-FACE-230823-15
 Model#: T803 (Tanapa: PMUE5446B)
 Phantom#: EL15 1147
 Tissue Temp: 20.9 (C)
 Serial#: 17520ZN0377
 Antenna: Fixed antenna
 Test Freq: 467.6375 (MHz)
 Battery: 1532
 Carry Acc: @ front
 Audio Acc: N/A
 Start Power: 0.625 (W)

Comments:

Communication System Band: Maroon Bell, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 468$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 467.637 MHz, ConvF(11.24, 11.24, 11.24) @ 467.637 MHz
 Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 37.49 V/m; Power Drift = -0.72 dB

Fast SAR: SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.652 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.11 W/kg

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

Reference Value = 37.49 V/m; Power Drift = -0.82 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.619 W/kg (SAR corrected for target medium)

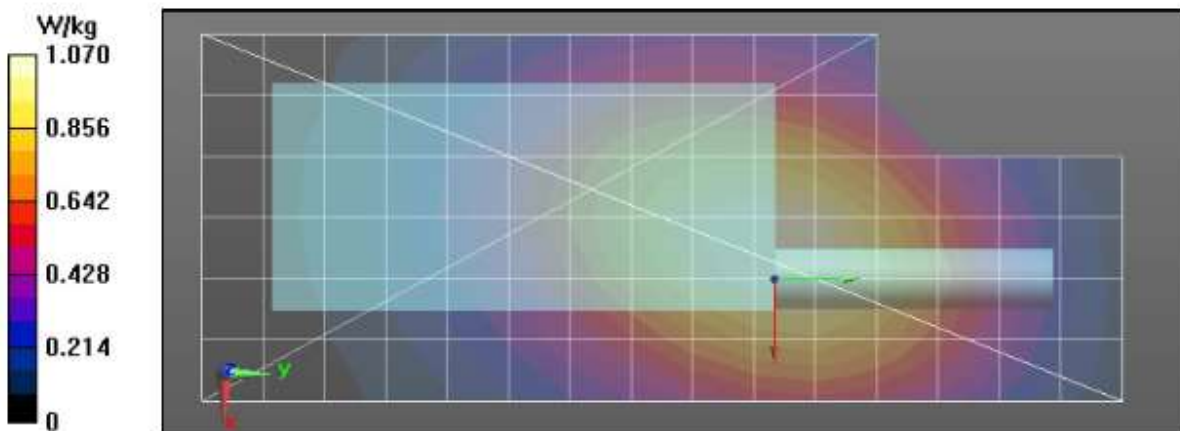
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 72.1%

Maximum value of SAR (measured) = 1.04 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.03 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Shortened Scan Table 28

Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/7/2023 10:53:39 PM

Robot#: DASY5-PG-1 | Run#: BL-AB-230907-12
 Model#: T803 (Tanapa: PMUE5446B)
 Phantom#: ELI5 1147
 Tissue Temp: 20.9 (C)
 Serial#: 17520ZN0377
 Antenna: Fixed antenna
 Test Freq: 462.6250 (MHz)
 Battery: PMNN4477A
 Carry Acc: 1564028V01
 Audio Acc: NTN8867A
 Start Power: 1.72 (W)

Comments: Shorten scan

Communication System Band: Maroon Bell, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: $f = 463$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7486, Calibrated: 6/18/2021, Frequency: 462.625 MHz, ConvF(11.24, 11.24, 11.24) @ 462.625 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 61.47 V/m; Power Drift = -0.14 dB

Fast SAR: SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.41 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.44 W/kg

Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm,

dy=0.7500 mm, dz=1.000 mm

Reference Value = 61.47 V/m; Power Drift = -0.22 dB

Fast SAR: SAR(1 g) = 1.88 W/kg; SAR(10 g) = 1.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 2.30 W/kg

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

dy=7.5mm, dz=5mm

Reference Value = 59.51 V/m; Power Drift = -0.43 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.56 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

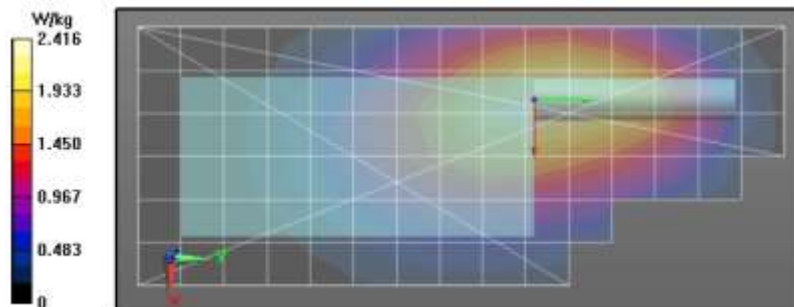
Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 2.86 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm,

dz=10mm

Maximum value of SAR (measured) = 1.93 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)	28	7	1.48
Full scan (area & zoom)	20	20	1.45

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